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(Weatherill, N. P.) *see* **Probabilistic methods in fluids, 2005c:60001**
Werner, Wendelin *see* **Tsirelson, Boris, 2005b:60004**
(Woess, Wolfgang) *see* **Random walks and geometry, 2005c:60002**
(Yor, Marc) *see* **Seminar: Probability Theory, 38, 2005j:60006**
Zachary, Stan *see* **Konstantopoulos, Takis et al.**
Zeitouni, Ofer *see* **Tavaré, Simon, 2005a:60006**

Items listed otherwise than by author

Ascona ★ Seminar on Stochastic Analysis, Random Fields and Applications IV. **2005f:60008**
Asymptotic methods in stochastics ★ Asymptotic methods in stochastics. **2005g:60006**
Barcelona ★ Stochastic inequalities and applications. **2005b:60005**
Hammamet ★ Proceedings of the International Conference on Stochastic Analysis and Applications. **2005g:60007**
Hayama ★ Stochastic analysis on large scale interacting systems. **2005a:60007**
Kyoto ★ Stochastic analysis on large scale interacting systems. **2005a:60007**
— ★ Stochastic analysis and related topics in Kyoto. **2005c:60003**
Lecture Notes in Mathematics ★ Séminaire de Probabilités XXXVIII. [Seminar on Probability Theory XXXVIII] **2005j:60006**
Lectures on probability theory and statistics *see* **Tavaré, Simon, 2005a:60006** *and* **Tsirelson, Boris, 2005b:60004**
Ottawa, ON ★ Asymptotic methods in stochastics. **2005g:60006**
Probabilistic methods in fluids ★ Probabilistic methods in fluids. **2005c:60001**
Proceedings:
Conference on Stochastic Analysis and Applications, International ★ Proceedings of the International Conference on Stochastic Analysis and Applications. **2005g:60007**
Random walks and geometry ★ Random walks and geometry. **2005c:60002**
Real and stochastic analysis ★ Real and stochastic analysis. **2005d:60002**
Recent advances in applied probability ★ Recent advances in applied probability. **2005f:60007**
Saint-Flour *see* **Tavaré, Simon, 2005a:60006** *and* **Tsirelson, Boris, 2005b:60004**
Seminar:
Probability Theory, 38 ★ Séminaire de Probabilités XXXVIII. [Seminar on Probability Theory XXXVIII] **2005j:60006**
Stochastic Analysis, Random Fields and Applications, IV ★ Seminar on Stochastic Analysis, Random Fields and Applications IV. **2005f:60008**
Stochastic analysis and related topics in Kyoto ★ Stochastic analysis and related topics in Kyoto. **2005c:60003**
Stochastic analysis on large scale interacting systems ★ Stochastic analysis on large scale interacting systems. **2005a:60007**
Stochastic inequalities and applications ★ Stochastic inequalities and applications. **2005b:60005**
Swansea ★ Probabilistic methods in fluids. **2005c:60001**
Vienna ★ Random walks and geometry. **2005c:60002**

Items with secondary classifications in 60–06

(Assani, Idris) *see* **Workshop: Ergodic Theory, Chapel Hill, 2005d:37002**
Back, Kerry (*with* Bielecki, Tomasz R.; Hipp, Christian; Peng, Shi Ge; Schachermayer, Walter) ★ Stochastic methods in finance. **2005h:91003**
(Bandt, Christoph) *see* **Fractal geometry and stochastics III, 2005c:28003**
Bielecki, Tomasz R. *see* **Back, Kerry et al., 2005h:91003**
Colonius, Fritz (*with* Kloeden, Peter E.; Siegmund, Stefan) Preface [Foundations of nonautonomous dynamical systems].
Combes, Jean-Michel (*with* Ruiz, Jean; Zagrebnov, Valentin A.) Preface [Special issue on mathematical aspects of random systems and statistical mechanics in honour of Leonid Pastur].
Da Prato, Giuseppe (*with* Kunstmann, Peer Christian; Lasiecka, Irena; Lunardi, Alessandra; Schnaubelt, Roland; Weis, Lutz) ★ Functional analytic methods for evolution equations. **2005f:35003**
(Deuschel, Jean-Dominique) *see* **Interacting stochastic systems, 2005i:00006**
(Drmota, Michael) *see* **Mathematics and computer science. III, 2005d:00014**
(Feynman, R. P.) *see* **Stochastic analysis and mathematical physics (SAMP/ANESTOC 2002), 2005i:81001**
(Flajolet, Philippe) *see* **Mathematics and computer science. III, 2005d:00014**
(van Frankenhuysen, Machiel) *see* **Fractal geometry and applications: a jubilee of Benoît Mandelbrot. Part 1, 2005g:28001** *and* **Fractal geometry and applications: a jubilee of Benoît Mandelbrot. Part 2, 2005g:28002**
(Frittelli, Marco) *see* **Back, Kerry et al., 2005h:91003**
(Gardy, Danièle) *see* **Mathematics and computer science. III, 2005d:00014**
(Gil, María Angeles) *see* **Soft methodology and random information systems, 2005i:62007**
(Gittenberger, Bernhard) *see* **Mathematics and computer science. III, 2005d:00014**
(Greven, Andreas) *see* **Interacting stochastic systems, 2005i:00006**
(Grzegorzewski, Przemysław) *see* **Soft methodology and random information systems, 2005i:62007**
Hipp, Christian *see* **Back, Kerry et al., 2005h:91003**
(Hora, Akihito) *see* **Non-commutativity, infinite-dimensionality and probability at the crossroads, 2005a:81119**
(Hryniewicz, Olgierd) *see* **Soft methodology and random information systems, 2005i:62007**
(Iannelli, Mimmo) *see* **Da Prato, Giuseppe et al., 2005f:35003**
(Khrennikov, Andrei Yu.) *see* **Foundations of probability and physics, 2005c:81006**
Kloeden, Peter E. *see* **Colonius, Fritz et al.**
(Kolmogorov, Andreĭ Nikolaevich) *see* **Kolmogorov legacy in physics, 2005a:00023**
Korolev, V. Yu. Preface [Proceedings of the XXII International Seminar on Stability Problems for Stochastic Models. Part II].
— Preface [Proceedings of the XXII Seminar on Stability Problems for Stochastic Models. Part III. Proceedings of the Memorial Seminar "Applied Stochastic Models and Information Processes"].
Kunstmann, Peer Christian *see* **Da Prato, Giuseppe et al., 2005f:35003**
(Lapidus, Michel L.) *see* **Fractal geometry and applications: a jubilee of Benoît Mandelbrot. Part 1, 2005g:28001** *and* **Fractal geometry and applications: a jubilee of Benoît Mandelbrot. Part 2, 2005g:28002**
Lasiecka, Irena *see* **Da Prato, Giuseppe et al., 2005f:35003**
(Lawry, Jonathan) *see* **Soft methodology and random information systems, 2005i:62007**
(Livi, Roberto) *see* **Kolmogorov legacy in physics, 2005a:00023**
(López-Díaz, Miguel) *see* **Soft methodology and random information systems, 2005i:62007**
Lunardi, Alessandra *see* **Da Prato, Giuseppe et al., 2005f:35003**
(Mandelbrot, Benoît B.) *see* **Fractal geometry and applications: a jubilee of Benoît Mandelbrot. Part 1, 2005g:28001** *and* **Fractal geometry and applications: a jubilee of Benoît Mandelbrot. Part 2, 2005g:28002**
(Matsui, Taku) *see* **Non-commutativity, infinite-dimensionality and probability at the crossroads, 2005a:81119**
(Milman, Vitali D.) *see* **Geometric aspects of functional analysis, 2005c:46001** *and* **2005c:46002**
(Mosco, Umberto) *see* **Fractal geometry and stochastics III, 2005c:28003**
(Nagel, Rainer J.) *see* **Da Prato, Giuseppe et al., 2005f:35003**
(Nguyễn Minh Chu'o'ng) *see* **Abstract and applied analysis, 2005d:00012**
(Nirenberg, Louis) *see* **Abstract and applied analysis, 2005d:00012**
(Obata, Nobuaki) *see* **Non-commutativity, infinite-dimensionality and probability at the crossroads, 2005a:81119**
(Pastur, Leonid Andreevich) *see* **Combes, Jean-Michel et al.**
Peng, Shi Ge *see* **Back, Kerry et al., 2005h:91003**
(Piazzera, Susanna) *see* **Da Prato, Giuseppe et al., 2005f:35003**
Polasek, Wolfgang (*with* Ruggeri, Fabrizio) Editorial [Innovative statistical models in the European business and industry].
(Rebolledo, Rolando) *see* **Stochastic analysis and mathematical physics (SAMP/ANESTOC 2002), 2005i:81001**
(Rezende, Jorge) *see* **Stochastic analysis and mathematical physics (SAMP/ANESTOC 2002), 2005i:81001**
Ruggeri, Fabrizio *see* **Polasek, Wolfgang**
Ruiz, Jean *see* **Combes, Jean-Michel et al.**
(Runggaldier, Wolfgang J.) *see* **Back, Kerry et al., 2005h:91003**
Schachermayer, Walter *see* **Back, Kerry et al., 2005h:91003**
(Schechtman, Gideon) *see* **Geometric aspects of functional analysis, 2005c:46001** *and* **2005c:46002**
Schnaubelt, Roland *see* **Da Prato, Giuseppe et al., 2005f:35003**
Shimura, Takaaki *see* **Takahashi, Rinya**
Siegmund, Stefan *see* **Colonius, Fritz et al.**
Takahashi, Rinya (*with* Shimura, Takaaki) On the special issue "Extreme value theory". (Japanese)
(Tutschke, Wolfgang) *see* **Abstract and applied analysis, 2005d:00012**
(Vulpiani, Angelo) *see* **Kolmogorov legacy in physics, 2005a:00023**
Weis, Lutz *see* **Da Prato, Giuseppe et al., 2005f:35003**
Zagrebnov, Valentin A. *see* **Combes, Jean-Michel et al.**
(Zähle, Martina) *see* **Fractal geometry and stochastics III, 2005c:28003**
(Zambrini, Jean-Claude) *see* **Stochastic analysis and mathematical physics (SAMP/ANESTOC 2002), 2005i:81001**

Items listed otherwise than by author

Abstract and applied analysis ★ Abstract and applied analysis. **2005d:00012**
Bressanone/Brixen *see* **Back, Kerry et al., 2005h:91003**
Chapel Hill, NC ★ Chapel Hill Ergodic Theory Workshops. **2005d:37002**
Contemporary Mathematics ★ Chapel Hill Ergodic Theory Workshops. **2005d:37002**
Foundations of probability and physics ★ Foundations of probability and physics. **2005c:81006**
Fractal geometry and applications: a jubilee of Benoît Mandelbrot. Part 1 ★ Fractal geometry and applications: a jubilee of Benoît Mandelbrot. Part 1. **2005g:28001**
Fractal geometry and applications: a jubilee of Benoît Mandelbrot. Part 2 ★ Fractal geometry and applications: a jubilee of Benoît Mandelbrot. Part 2. **2005g:28002**
Fractal geometry and stochastics III ★ Fractal geometry and stochastics III. **2005c:28003**
Friedrichroda ★ Fractal geometry and stochastics III. **2005c:28003**
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— ★ Geometric aspects of functional analysis. **2005c:46002**
Hanoi ★ Abstract and applied analysis. **2005d:00012**
Interacting stochastic systems ★ Interacting stochastic systems. **2005i:00006**
Kolmogorov legacy in physics ★ The Kolmogorov legacy in physics. **2005a:00023**
Kyoto ★ Non-commutativity, infinite-dimensionality and probability at the crossroads. **2005a:81119**
Lecture Notes in Mathematics ★ Geometric aspects of functional analysis. **2005c:46001**
— ★ Geometric aspects of functional analysis. **2005c:46002**
Lecture Notes in Physics ★ The Kolmogorov legacy in physics. **2005a:00023**
Lisbon ★ Stochastic analysis and mathematical physics (SAMP/ANESTOC 2002). **2005i:81001**
Mathematics and computer science. III ★ Mathematics and computer science. III. **2005d:00014**
Non-commutativity, infinite-dimensionality and probability at the crossroads ★ Non-commutativity, infinite-dimensionality and probability at the crossroads. **2005a:81119**
Oviedo ★ Soft methodology and random information systems. **2005i:62007**
Proceedings of Symposia in Pure Mathematics ★ Fractal geometry and applications: a jubilee of Benoît Mandelbrot. Part 1. **2005g:28001**
— ★ Fractal geometry and applications: a jubilee of Benoît Mandelbrot. Part 2. **2005g:28002**
San Diego, CA ★ Fractal geometry and applications: a jubilee of Benoît Mandelbrot. Part 1. **2005g:28001**
— ★ Fractal geometry and applications: a jubilee of Benoît Mandelbrot. Part 2. **2005g:28002**
Santiago ★ Stochastic analysis and mathematical physics (SAMP/ANESTOC 2002). **2005i:81001**
Soft methodology and random information systems ★ Soft methodology and random information systems. **2005i:62007**
Stochastic analysis and mathematical physics (SAMP/ANESTOC 2002) ★ Stochastic analysis and mathematical physics (SAMP/ANESTOC 2002). **2005i:81001**
Stochastic methods in finance *see* **Back, Kerry et al., 2005h:91003**
Växjö ★ Foundations of probability and physics. **2005c:81006**

Vienna ★ Mathematics and computer science. III. **2005d:00014**
Workshop:
Ergodic Theory, Chapel Hill ★ Chapel Hill Ergodic Theory Workshops. **2005d:37002**

60–08 Computational methods (not classified at a more specific level) [see also 65C50]

E, Wei-nan (*with* Ren, Weiqing; Vanden-Eijnden, Eric) Energy landscapes and rare events. (English summary) **2005b:60006**
Ren, Weiqing *see* **E, Wei-nan et al., 2005b:60006**
Vanden-Eijnden, Eric *see* **E, Wei-nan et al., 2005b:60006**

Items with secondary classifications in 60–08

Bossy, Mireille (*with* Gobet, Emmanuel; Talay, Denis) A symmetrized Euler scheme for an efficient approximation of reflected diffusions. (English summary) **2005g:65022**
Gobet, Emmanuel (*with* Menozzi, Stéphane) Exact approximation rate of killed hypoelliptic diffusions using the discrete Euler scheme. (English summary) **2005d:60128**
— *see also* **Bossy, Mireille et al., 2005g:65022**
Menozzi, Stéphane *see* **Gobet, Emmanuel, 2005d:60128**
Talay, Denis *see* **Bossy, Mireille et al., 2005g:65022**

60Axx Foundations of probability theory

60A05 Axioms; other general questions

Aalen, Odd O. *see* **Lauritzen, Steffen L., 2005e:60007**
Alt, Rene *see* **Markov, Svetoslav M., 2005g:60012**
Arjas, Elja (*with* Parner, Jan) Causal reasoning from longitudinal data. (English summary) **2005e:60006**
— *see also* **Lauritzen, Steffen L., 2005e:60007**
de Baets, Bernard *see* **De Meyer, Hans, (2005i:62007)**
Ballentine, L. E. Interpretations of probability and quantum theory. (English summary) **2005h:60010**
Bartha, Paul Countable additivity and the de Finetti lottery. (English summary) **2005f:60009**
Booker, Jane M. *see* **Singpurwalla, Nozer D., 2005k:60012**
Buckley, James J. ★ Fuzzy probabilities and fuzzy sets for web planning. **2005a:60008**
Calude, Cristian S. Who is afraid of randomness? **2005f:60010**
Coletti, Giulianella (*with* Scozzafava, Romano) Some aspects of conditioning in a coherent setting. (*see* **2005i:62007**)
von Collani, Elart Theoretical stochastics. **2005d:60003**
— Empirical stochastics. **2005d:60004**
de Cooman, Gert *see* **Couso Blanco, Inés et al., (2005i:62007)**
Costantini, Domenico (*with* Garibaldi, Ubaldo) The Ehrenfest fleas: from model to theory. (English summary) **2005d:60005**
Couso Blanco, Inés (*with* Miranda, Enrique; de Cooman, Gert) A possibilistic interpretation of the expectation of a fuzzy random variable. (*see* **2005i:62007**)
Dawid, A. Philip Probability, causality and the empirical world: a Bayes-de Finetti-Popper-Borel synthesis. (English summary) **2005f:60011**
De Meyer, Hans (*with* de Baets, Bernard) Generalized stochastic transitivity for probabilistic relations. (*see* **2005i:62007**)
Frič, Roman Duality for generalized events. (English summary) **2005i:60006**
Garibaldi, Ubaldo *see* **Costantini, Domenico, 2005d:60005**
Geng, Zhi (*with* He, Yangbo; Wang, Xue Li[1]) Relationship of causal effects in a causal chain and related inference. (English summary) **2005j:60007**
Gilboa, Itzhak (*with* Schmeidler, David) Subjective distributions. (English summary) **2005k:60009**
Gottvald, Aleš Exponential family and inverse problems. On metamorphoses of probability theory. (English summary) **2005a:60009**
Hájek, Alan What conditional probability could not be. (English summary) **2005g:60008**
Halton, John H. An outline of quasi-probability. (English summary) **2005j:60008**
Harman, Aziz On the probability space. (English summary)
He, Yangbo *see* **Geng, Zhi et al., 2005j:60007**
Kalashnikov, Vladimir Quantification in stochastics and the stability concept. (English summary) **2005d:60006**
Knuth, Kevin H. Deriving laws from ordering relations. (English summary) (*see* **2005c:62004**)
Krätschmer, Volker Probability theory in fuzzy sample spaces. (English summary) **2005i:60007**
Lauritzen, Steffen L. (*with* Aalen, Odd O.) Discussion on causality. Comment on: "Direct and indirect causal effects via potential outcomes" [Scand. J. Statist. **31** (2004), no. 2, 161–170; MR2066246 (2005d:62012)] by D. B. Rubin and "Causal reasoning from longitudinal data" [ibid., 171–187; MR2066247 (2005e:60006)] by E. Arjas and J. Parner. (English summary) **2005e:60007**
Lehrer, Ehud Updating non-additive probabilities—a geometric approach. (English summary) **2005g:60009**
Liang, Yu (*with* Zheng, Zhong Guo) An identifiability condition of causal effect for a simple causal model. (Chinese. English and Chinese summaries) **2005g:60010**
Loschi, Rosangela H. (*with* Wechsler, Sergio) Coherence, Bayes's theorem and posterior distributions. (English summary) **2005a:60010**
Luhandjula, M. K. Fuzzy random variable: a mathematical tool for combining randomness and fuzziness. **2005h:60011**
Maksimov, V. M. Abstract models of probability. (English summary) **2005g:60011**
Markov, Svetoslav M. (*with* Alt, Rene) Stochastic arithmetic: Addition and multiplication by scalars. (English summary) **2005g:60012**
McCall, John J. Induction: from Kolmogorov and Solomonoff to de Finetti and back to Kolmogorov. (English summary) **2005h:60012**
Meng, Guang Wu (*with* Zhang, Xing Fang) On fuzzy probability. (English summary) **2005i:60008**
Miranda, Enrique *see* **Couso Blanco, Inés et al., (2005i:62007)**
Olatinwo, Memudu Olaposi The degree of progress to goal during self-organization process. (English summary) **2005k:60010**
Parner, Jan *see* **Arjas, Elja, 2005e:60006** *and* **Lauritzen, Steffen L., 2005e:60007**
Pavlov, Yu. P. Subjective preferences, values and decisions. Stochastic approximation approach. (English summary)
Pelessoni, Renato (*with* Vicig, Paolo) Uncertainty modelling and conditioning with convex imprecise previsions. (English summary) **2005k:60011**
Prasad, Ramawatar *see* **Roy, Ram Babu**
Roy, Ram Babu (*with* Prasad, Ramawatar) On characteristic feature of generalised random variables. (English summary)
(Rubin, Donald B.) *see* **Lauritzen, Steffen L., 2005e:60007**
Schikhof, W. H. An approach to the ultrametric moment problem. (English summary) **2005i:60009**
Schmeidler, David *see* **Gilboa, Itzhak, 2005k:60009**
Scozzafava, Romano *see* **Coletti, Giulianella, (2005i:62007)**
Sgarro, Andrea Possibilistic time processes and soft decoding. (*see* **2005i:62007**)
Singpurwalla, Nozer D. (*with* Booker, Jane M.) Membership functions and probability measures of fuzzy sets. (English summary) **2005k:60012**
Summhammer, Johann Structure of probabilistic information and quantum laws. (English summary) **2005f:60012**
Utkin, Lev V. Imprecise second-order model for a system of independent random variables. (English summary)
Vicig, Paolo *see* **Pelessoni, Renato, 2005k:60011**
Wagner, Carl G. Commuting probability revisions: the uniformity rule. (English summary) **2005f:60013**
Wang, Xue Li[1] *see* **Geng, Zhi et al., 2005j:60007**
Wechsler, Sergio *see* **Loschi, Rosangela H., 2005a:60010**
Xiong, Da Guo Causation space and set methodology in probability theory. (Chinese. English and Chinese summaries)
Zadeh, Lotfi A. Probability theory should be based on fuzzy logic—a contentious view. **2005k:60013**
Zhang, Xing Fang *see* **Meng, Guang Wu, 2005i:60008**
Zheng, Zhong Guo *see* **Liang, Yu, 2005g:60010**

Items with secondary classifications in 60A05

Accardi, Luidgi (*with* Lu, Yun Gang) Free probability and quantum electrodynamics. (English summary) **2005f:81124**
Aczel, Amir D. ★ Chance. **2005h:00005**
Aerts, Diederik Reality and probability: introducing a new type of probability calculus. (English summary) **2005c:81009**
Amann, A. *see* **Atmanspacher, Harald et al., 2005d:82058**
Amari, Shun-ichi *see* **Ikeda, Shiro et al., 2005j:62015**
Andreev, Anton V. The role of physics in the change in the meaning of the concept of "probability". (Russian) (*see* **2005b:01005**)
Anrig, Bernhard (*with* Baziukaitė, Dalia) Probabilistic argumentation systems with decision variables. (English and Lithuanian summaries)
Atmanspacher, Harald (*with* Bishop, Robert C.; Amann, A.) Extrinsic and intrinsic irreversibility in probabilistic dynamical laws. (English summary) **2005d:82058**
Augustin, Thomas[1] Optimal decisions under complex uncertainty—basic notions and a general algorithm for data-based decision making with partial prior knowledge described by interval probability. (English summary)
Badea, Petrică Stochastic properties of a learning algorithm based on an aggregation operator. (English summary) **2005b:68241**
Baral, Chitta (*with* Gelfond, Michael; Rushton, Nelson) Probabilistic reasoning with answer sets. (English summary) (*see* **2005b:68018**)
Baudrit, Cédric (*with* Dubois, Didier; Fargier, Hélène) Representation of incomplete probabilistic information. (*see* **2005i:62007**)
Bauer, Robert O. Löwner's equation from a noncommutative probability perspective. (English summary) **2005c:46093**
Baziukaitė, Dalia *see* **Anrig, Bernhard**
Beer, Michael *see* **Möller, Bernd, 2005m:74100**
Berti, Patrizia (*with* Rigo, Pietro) Convergence in distribution of nonmeasurable random elements. (English summary) **2005j:60012**
Bishop, Robert C. *see* **Atmanspacher, Harald et al., 2005d:82058**
Bontempi, Gianluca Simulating continuous dynamical systems under conditions of uncertainty: the probability and the possibility approaches. (English summary) **2005c:37163**
Borkar, Vivek S. (*with* Konda, Vijay R.; Mitter, Sanjoy K.) On De Finetti coherence and Kolmogorov probability. (English summary) **2005a:28004**
Buhrman, Harry (*with* Fortnow, Lance; Pavan, A.) Some results on derandomization. (English summary) **2005k:68059**
Busch, P. Less (precision) is more (information): quantum information in fuzzy probability theory. (English summary) **2005j:81005**
Carlsson, Christer (*with* Fullér, Róbert; Majlender, Péter) A normative view on possibility distributions. (English summary) (*see* **2005b:00019**)
Coletti, Giulianella (*with* Scozzafava, Romano) ★ Probabilistic logic in a coherent setting. **2005b:03001**
de Cooman, Gert (*with* Troffaes, Matthias C. M.) Dynamic programming for deterministic discrete-time systems with uncertain gain. (English summary) **2005k:90196**
Davie, George Characterising the Martin-Löf random sequences using computably enumerable sets of measure one. (English summary) **2005h:03084**
(Dezert, Jean) *see* **Advances and applications of DSmT for information fusion**
Di Nola, Antonio (*with* Scozzafava, Romano) Partial algebraic conditional spaces. (English summary) **2005i:03028**
Đorđević, Radosav (*with* Rašković, Miodrag; Ognjanović, Zoran) Completeness theorem for propositional probabilistic models whose measures have only finite ranges. (English summary) **2005a:03045**

Downey, Rodney G. (*with* Griffiths, Evan J.; Laforte, Geoffrey) On Schnorr and computable randomness, martingales, and machines. (English summary) **2005h:03085**
Dubois, Didier *see* **Baudrit, Cédric et al.**, (2005i:62007)
Esteves, L. G. *see* **Wechsler, Sergio et al.**, 2005m:03016
Fargier, Hélène *see* **Baudrit, Cédric et al.**, (2005i:62007)
Fortnow, Lance *see* **Buhrman, Harry et al.**, 2005k:68059
Franz, Uwe[1] What is stochastic independence? (English summary) **2005g:81169**
Fullér, Róbert *see* **Carlsson, Christer et al.**, (2005b:00019)
Galavotti, Maria Carla ★ Philosophical introduction to probability. **2005k:60005**
Gelfond, Michael *see* **Baral, Chitta et al.**, (2005b:68018)
Gill, Richard D. Time, finite statistics, and Bell's fifth position. (English summary) **2005a:81020**
Gillies, Donald A. Heuristics and mathematical discovery: the case of Bayesian networks.
(Gnedenko, Boris Vladimirovich) *see* **Khinchin, Aleksandr Yakovlevich**
Goubault-Larrecq, Jean Extensions of valuations. (English summary) **2005m:68138**
Griffiths, Evan J. *see* **Downey, Rodney G. et al.**, 2005h:03085
Gross, D. H. E. Ensemble probabilistic equilibrium and non-equilibrium thermodynamics without the thermodynamical limit. (English summary) (*see* **2005c:81006**)
Gudder, Stanley An approach to quantum probability. (English summary) **2005d:81014**
— Noncommutative probability and applications. (English summary) **2005g:81019**
Gyenis, Balázs (*with* Rédei, Miklós) When can statistical theories be causally closed? (English summary) **2005e:00007**
Halpern, Joseph Y. ★ Reasoning about uncertainty. **2005h:68002**
Hareter, Dietmar *see* **Viertl, Reinhard**
Hausman, Daniel (*with* Woodward, James) Manipulation and the causal Markov condition. (English summary)
Herkenrath, Ulrich Stochastics: the science of modelling, measuring and mastering randomness and uncertainty. **2005h:62015**
Hida, Takeyuki Innovation approach to stochastic processes and quantum dynamics. (English summary) **2005k:60219**
— White noise theory and physics. (English summary) **2005g:81170**
Hiddleston, Eric Causal powers. (English summary)
Hofer-Szabó, G. (*with* Rédei, Miklós) Reichenbachian common cause systems. (English summary) **2005h:81021**
Howson, Colin Probability and logic. (English summary) **2005a:03046**
Humphreys, Paul Some considerations on conditional chances. (English summary) **2005h:00008**
— Some thoughts on Wesley Salmon's contributions to the philosophy of probability. (English summary)
Ikeda, Shiro (*with* Tanaka, Toshiyuki[2]; Amari, Shun-ichi) Information-geometry framework for analysing belief propagation. (Japanese. English and Japanese summaries) **2005j:62015**
Izumi, Masaki Non-commutative Markov operators arising from subfactors. **2005c:46090**
Jeffrey, Richard ★ Subjective probability. **2005h:60005**
Jeleva, Meglena (*with* Villeneuve, Bertrand) Insurance contracts with imprecise probabilities and adverse selection. (English summary) **2005d:91068**
Joo, Sang Yeol (*with* Kim, Yun Kyong) Weak convergence and tightness for fuzzy random variables. (English summary) **2005f:60058**
Jouini, Elyès (*with* Napp, Clotilde) Conditional comonotonicity. (English summary) **2005f:60015**
Kartashov, N. (*with* Mīshura, Yulīya) What random variable generates a bounded potential? **2005f:60164**
Kaufmann, Stefan Conditioning against the grain. (English summary) **2005h:03013**
Khinchin, Aleksandr Yakovlevich Classical text in translation.
— *see also* **Siegmund-Schultze, Reinhard**
Khrennikov, Andrei Yu. Origin of quantum probabilities. (English summary) (*see* **2005c:81006**)
— Nonconventional viewpoint to elements of physical reality based on nonreal asymptotics of relative frequencies. (English summary) **2005d:81018**
— Representation of the Kolmogorov model having all distinguishing features of quantum probabilistic model. (English summary) **2005b:81003**
— *see also* **Kozyrev, Sergei**, 2005h:81026
Kim, Yun Kyong *see* **Joo, Sang Yeol**, 2005f:60058
Kohlas, Jürg Probabilistic argumentation systems. A new way to combine logic with probability. (English summary) **2005a:03047**
Konda, Vijay R. *see* **Borkar, Vivek S. et al.**, 2005a:28004
Korb, Kevin B. *see* **Twardy, Charles R.**, 2005k:03051
Kozyrev, Sergei (*with* Khrennikov, Andrei Yu.) Noncommutative probability in classical systems. (English summary) **2005h:81026**
Kracklauer, A. F. "Complementarity" or schizophrenia: is probability in quantum mechanics information or onta? (English summary) (*see* **2005c:81006**)
Kreinovich, Vladik *see* **Nguyen, Hung Trung et al.**, 2005e:60009
Kroupa, Tomáš Conditional probability on MV-algebras. (English summary) **2005h:03122**
Kyburg, Henry E., Jr. Are there degrees of belief? (English summary) **2005a:03048**
Laforte, Geoffrey *see* **Downey, Rodney G. et al.**, 2005h:03085
Lahti, Pekka (*with* Pellonpää, Juha-Pekka; Ylinen, Kari) Two questions on quantum probability. (English summary) **2005k:81033**
Larsson, Jan-Åke A probabilistic inequality for the Kochen-Specker paradox. (English summary) **2005d:81059**
Liu, Baoding ★ Uncertainty theory. **2005i:68078**
— *see also* **Zhou, Jian**, 2005b:03136
Longpré, Luc *see* **Nguyen, Hung Trung et al.**, 2005e:60009
Lu, Yun Gang *see* **Accardi, Luidgi**, 2005f:81124
Majlender, Péter *see* **Carlsson, Christer et al.**, (2005b:00019)
Mäkilä, Pertti M. On chaotic and random sequences. (English summary) **2005g:37104**
Miller, David W. Propensities may satisfy Bayes's theorem. **2005f:03031**
Minuț, Petru About a probabilistic logic. (English summary) **2005e:03046**
Mīshura, Yulīya *see* **Kartashov, N.**, 2005f:60164
Mitter, Sanjoy K. *see* **Borkar, Vivek S. et al.**, 2005a:28004
Möller, Bernd (*with* Beer, Michael) ★ Fuzzy randomness. **2005m:74100**
Muraki, Naofumi The five independences as natural products. (English summary) **2005h:46093**
Napp, Clotilde *see* **Jouini, Elyès**, 2005f:60015
Neumaier, Arnold Clouds, fuzzy sets, and probability intervals. (English summary) **2005c:03102**
Nguyen, Hung Trung (*with* Kreinovich, Vladik; Longpré, Luc) Dirty pages of logarithm tables, lifetime of the universe, and (subjective) probabilities on finite and infinite intervals. (English summary) **2005e:60009**
Ognjanović, Zoran *see* **Đorđević, Radosav et al.**, 2005a:03045
Papčo, Martin On measurable spaces and measurable maps. (English summary) **2005j:06006**
Paris, J. B. (*with* Vencovská, A.) The emergence of reasons conjecture. (English summary) **2005k:03050**
Pavan, A. *see* **Buhrman, Harry et al.**, 2005k:68059
Peixoto, C. *see* **Wechsler, Sergio et al.**, 2005m:03016
Pellonpää, Juha-Pekka *see* **Lahti, Pekka et al.**, 2005k:81033
Placek, Tomasz Quantum state holism: a case for holistic causation. (English summary) **2005k:81014**
Rašković, Miodrag *see* **Đorđević, Radosav et al.**, 2005a:03045
Rassias, John Michael On the refined Heisenberg-Weyl type inequality. (English summary) **2005k:26062**
Rédei, Miklós *see* **Gyenis, Balázs**, 2005e:00007 *and* **Hofer-Szabó, G.**, 2005h:81021
Riečan, Beloslav On the strong law of large numbers on some ordered structures. (English summary) **2005f:60082**
Rigo, Pietro *see* **Berti, Patrizia**, 2005j:60012
Rochefort-Maranda, Guillaume Probabilité et support inductif. Sur le théorème de Popper-Miller (1983). (English summary) [Probability and inductive support: the Popper-Miller theorem (1983)] **2005m:03012**
Rubin, Donald B. Direct and indirect causal effects via potential outcomes. (English summary) **2005d:62012**
Rushton, Nelson *see* **Baral, Chitta et al.**, (2005b:68018)
Scozzafava, Romano *see* **Coletti, Giulianella**, 2005b:03001 *and* **Di Nola, Antonio**, 2005i:03028
Serdobolskii, V. I. Constructive foundations of randomness. (English summary) **2005k:68100**
(Sheĭnin, O. B.) *see* **Khinchin, Aleksandr Yakovlevich**
Siegmund-Schultze, Reinhard Mathematicians forced to philosophize: an introduction to Khinchin's paper on von Mises' theory of probability. (English summary)
— *see also* **Khinchin, Aleksandr Yakovlevich**
Simonis, A. *see* **Wechsler, Sergio et al.**, 2005m:03016
(Smarandache, Florentin) *see* **Advances and applications of DSmT for information fusion**
Sober, Elliott Bayesianism—its scope and limits. **2005g:62007**
Steel, Daniel Indeterminism and the causal Markov condition. (English summary) **2005j:00003**
Sun, Ping[1] (*with* Wang, Tian Ming) A probabilistic interpretation to umbral calculus. (English and Chinese summaries)
Tanaka, Toshiyuki[2] *see* **Ikeda, Shiro et al.**, 2005j:62015
Troffaes, Matthias C. M. *see* **de Cooman, Gert**, 2005k:90196
Twardy, Charles R. (*with* Korb, Kevin B.) A criterion of probabilistic causation. (English summary) **2005k:03051**
Vencovská, A. *see* **Paris, J. B.**, 2005k:03050
Viertl, Reinhard (*with* Hareter, Dietmar) Fuzzy information and imprecise probability. (English summary)
Villeneuve, Bertrand *see* **Jeleva, Meglena**, 2005d:91068
Voiculescu, Dan Free analysis questions. I. Duality transform for the coalgebra of $\partial_{X:B}$. **2005a:46140**
Wakker, Peter P. Decision-foundations for properties of nonadditive measures: general state spaces or general outcome spaces. (English summary) **2005g:91068**
Wang, Tian Ming *see* **Sun, Ping**[1]
Ward, Barry Projecting chances: a Humean vindication and justification of the principal principle. (English summary)
Wechsler, Sergio (*with* Esteves, L. G.; Simonis, A.; Peixoto, C.) Indifference, neutrality and informativeness: generalizing the three prisoners paradox. (English summary) **2005m:03016**
Weydert, Emil System JLZ—rational default reasoning by minimal ranking constructions. (English summary) **2005i:03041**
Woodward, James *see* **Hausman, Daniel**
Ylinen, Kari *see* **Lahti, Pekka et al.**, 2005k:81033
Zbilut, Joseph P. ★ Unstable singularities and randomness. **2005k:37198**
Zhou, Jian (*with* Liu, Baoding) Analysis and algorithms of bifuzzy systems. (English summary) **2005b:03136**

Items listed otherwise than by author

Advances and applications of DSmT for information fusion ★ Advances and applications of DSmT for information fusion.

60A10 Probabilistic measure theory {For ergodic theory, see 28Dxx and 60Fxx.}

Arwini, Khadiga (*with* Dodson, C. T. J.) Neighbourhoods of randomness and geometry of McKay bivariate gamma 3-manifold. (English summary) **2005i:60010**
Borowiecka-Olszewska, Marta *see* **Mazurkiewicz, G. et al.**
Cerone, Pietro (*with* Dragomir, Sever Silvestru) New bounds for the three-point rule involving the Riemann-Stieltjes integral. (English summary) **2005b:60007**
Chen, Wen Cai (*with* Ye, Zhong Xing) Coherent risk measures defined on $L^p(\Omega)$ spaces. (Chinese. English and Chinese summaries) **2005k:60014**
Csiszár, Imre (*with* Matúš, František) Closures of exponential families. (English summary) **2005k:60015**
Dedecker, Jérôme (*with* Prieur, Clémentine) Couplage pour la distance minimale. (English and French summaries) [Coupling for minimal distance] **2005d:60007**

Diaconis, Persi (*with* Freedman, David A.) The Markov moment problem and de Finetti's theorem. I. (English summary) **2005m:60004**
— (*with* Freedman, David A.) The Markov moment problem and de Finetti's theorem. II. (English summary) **2005m:60005**
Dodson, C. T. J. *see* **Arwini, Khadiga, 2005i:60010**
Dragomir, Sever Silvestru *see* **Cerone, Pietro, 2005b:60007**
Fragoso, Marcelo D. *see* **Leao, D., Jr. et al., 2005b:60008**
Freedman, David A. *see* **Diaconis, Persi, 2005m:60004** *and* **2005m:60005**
Gupta, Arjun K. (*with* Nadarajah, Saralees) Mathematical properties of the beta distribution. (*see* **2005j:62007**)
Iglesias, Pilar Loreto (*with* Matúš, František; Pereira, Carlos Alberto de Bragança; Tanaka, Nelson I.) On finite sequences conditionally uniform given minima and maxima. (English summary) **2005j:60009**
Jakobsen, Per (*with* Lychagin, Valentin) Relations and quantizations in the category of probabilistic bundles. (English summary) **2005f:60014**
Jouini, Elyès (*with* Napp, Clotilde) Conditional comonotonicity. (English summary) **2005f:60015**
Lachout, Petr A solution of an equation for indexed functions. (English summary) **2005k:60016**
Leao, D., Jr. (*with* Fragoso, Marcelo D.; Ruffino, Paulo R. C.) Regular conditional probability, disintegration of probability and Radon spaces. (English summary) **2005b:60008**
Liu, Baoding *see* **Zhu, Yuanguo, 2005g:60013**
Lychagin, Valentin *see* **Jakobsen, Per, 2005f:60014**
Malinowski, M. T. *see* **Mazurkiewicz, G. et al.**
Matúš, František *see* **Iglesias, Pilar Loreto et al., 2005j:60009** *and* **Csiszár, Imre, 2005k:60015**
Mazurkiewicz, G. (*with* Borowiecka-Olszewska, Marta; Malinowski, M. T.) The arithmetic of convolutions, scale mixtures, and convolution mixtures.
Nadarajah, Saralees *see* **Gupta, Arjun K., (2005j:62007)**
Napp, Clotilde *see* **Jouini, Elyès, 2005f:60015**
Pastur, Leonid Andreevich (*with* Vasilchuk, V.) On the moments of traces of matrices of classical groups. (English summary) **2005j:60010**
Pereira, Carlos Alberto de Bragança *see* **Iglesias, Pilar Loreto et al., 2005j:60009**
Petrov, Valentin Vladimirovich On the growth of sums of the indicators of events. (Russian. English and Russian summaries) **2005k:60017**
— A generalization of the Borel-Cantelli lemma. (English summary) **2005a:60011**
Prieur, Clémentine *see* **Dedecker, Jérôme, 2005d:60007**
Ruffino, Paulo R. C. *see* **Leao, D., Jr. et al., 2005b:60008**
Stoyanov, Jordan Sets of binary random variables with a prescribed independence/dependence structure. (English summary) **2005e:60008**
Szeptycki, Paweł Percentiles. (English summary) **2005b:60009**
Tanaka, Nelson I. *see* **Iglesias, Pilar Loreto et al., 2005j:60009**
Vasilchuk, V. *see* **Pastur, Leonid Andreevich, 2005j:60010**
Ye, Zhong Xing *see* **Chen, Wen Cai, 2005k:60014**
Zhu, Yuanguo (*with* Liu, Baoding) Continuity theorems and chance distribution of random fuzzy variables. (English summary) **2005g:60013**

Items with secondary classifications in 60A10

Agratini, Octavian Linear operators generated by a probability density function. (English summary) **2005e:41052**
Anantharam, Venkat *see* **Pakzad, Payam, 2005g:94126**
Artamonova, E. (*with* Leipus, Remigijus) A mathematical model for the bond market. (Russian. English, Russian and Lithuanian summaries) **2005k:91140**
Berleant, Daniel *see* **Regan, Helen M. et al., 2005b:68246**
Bobkov, Sergei G. Large deviations via transference plans. **2005b:60061**
Bogachev, Vladimir I. (*with* Kolesnikov, A. V.) Open mappings of probability measures and Skorokhod's representation theorem. (Russian. Russian summary) **2005a:28011**
Borowiecka-Olszewska, Marta (*with* Misiewicz, Jolanta K.) About the density of spectral measure of the two-dimensional $S\alpha S$ random vector. (English summary) **2005e:62080**
Capiński, Marek (*with* Kopp, P. Ekkehard) ★ Measure, integral and probability. **2005c:28001**
Chan, D. M. (*with* Franke, J. E.) Probabilities of extinction, weak extinction, permanence, and mutual exclusion in discrete, competitive, Lotka-Volterra systems that involve invading species. (English summary) **2005g:92030**
Chan, Hei-Chi A Gauss-Kuzmin-Lévy theorem for a certain continued fraction. (English summary) **2005d:11116**
Chandola, V. B. (*with* Dimri, R. C.) A fixed point theorem for probabilistic densifying mappings in Menger spaces. (English summary)
Cismaşiu, Cristina Sanda Probabilistic interpretation of some quantitative theorems on approximation. (English and Romanian summaries)
Cobzaş, Ştefan Best approximation in random normed spaces. (English summary) **2005i:46084**
Coward, Charles W. *see* **Tözeren, Aydin et al.**
Dimri, R. C. *see* **Chandola, V. B.**
Elliott, Robert J. (*with* van der Hoek, John) Pricing claims on non tradable assets. (English summary) **2005b:91080**
Ferson, Scott A. *see* **Regan, Helen M. et al., 2005b:68246**
Fīnkel'shteĭn, D. L. The spectral gap inequality in configuration spaces and the concentration properties of a Poisson measure. (Ukrainian. English summary) **2005g:35223**
Franke, J. E. *see* **Chan, D. M., 2005g:92030**
Garg, Mridula (*with* Mittal, Shweta) On a modified hypergeometric negative binomial distribution. (English summary) **2005g:33007**
Gikhman, Iosif I. (*with* Skorokhod, Anatolii V.) ★ The theory of stochastic processes. I. **2005a:60002**
Groisman, Berry (*with* Reznik, Benni) Implementing nonlocal gates with nonmaximally entangled states. (English summary) **2005m:81030**
van der Hoek, John *see* **Elliott, Robert J., 2005b:91080**
Iwasa, Yoh (*with* Michor, Franziska; Komarova, N. L.; Nowak, Martin A.) Population genetics of tumor suppressor genes. (English summary)
Keisler, H. Jerome (*with* Sun, Yeneng) A metric on probabilities, and products of Loeb spaces. (English summary) **2005a:60012**
Kolesnikov, A. V. *see* **Bogachev, Vladimir I., 2005a:28011**
Komarova, N. L. *see* **Iwasa, Yoh et al.**
König, Heinz J. E. Projective limits via inner premeasures and the true Wiener measure. (English summary) **2005g:28005**
Kopp, P. Ekkehard *see* **Capiński, Marek, 2005c:28001**
(Kotz, Samuel) *see* **Gikhman, Iosif I., 2005a:60002**
Lahti, Pekka (*with* Pellonpää, Juha-Pekka; Ylinen, Kari) Two questions on quantum probability. (English summary) **2005k:81033**
Leipus, Remigijus *see* **Artamonova, E., 2005k:91140**
Leitner, Johannes Balayage monotonous risk measures. (English summary) **2005g:91120**
Lin, Xiao Gui An analysis of maximum probability and minimum risk of futures hedging. (Chinese. English and Chinese summaries)
Llorente, José G. Probabilistic approaches in analysis. (Catalan)
Macheras, N. D. (*with* Musiał, K.; Strauss, Werner) On strong liftings on projective limits. (English summary) **2005a:28013**
— *see also* **Strauss, Werner et al., 2005g:28010** *and* **Musiał, K. et al., 2005h:28011**
Michor, Franziska *see* **Iwasa, Yoh et al.**
Misiewicz, Jolanta K. *see* **Borowiecka-Olszewska, Marta, 2005e:62080**
Mittal, Shweta *see* **Garg, Mridula, 2005g:33007**
Musiał, K. (*with* Strauss, Werner; Macheras, N. D.) Existence of linear liftings with invariant sections in product measure spaces. (English summary) **2005h:28011**
— *see also* **Macheras, N. D. et al., 2005a:28013** *and* **Strauss, Werner et al., 2005g:28010**
Mycielski, Jan (*with* Szeptycki, Paweł) Minimizing moments. (English summary) **2005c:62027**
Nowak, Martin A. *see* **Iwasa, Yoh et al.**
Olatinwo, Memudu Olaposi The degree of progress to goal during self-organization process. (English summary) **2005k:60010**
Pakzad, Payam (*with* Anantharam, Venkat) A new look at the generalized distributive law. (English summary) **2005g:94126**
Pellonpää, Juha-Pekka *see* **Lahti, Pekka et al., 2005k:81033**
Petushi, Sokol P. *see* **Tözeren, Aydin et al.**
Regan, Helen M. (*with* Ferson, Scott A.; Berleant, Daniel) Equivalence of methods for uncertainty propagation of real-valued random variables. (English summary) **2005b:68246**
Reznik, Benni *see* **Groisman, Berry, 2005m:81030**
Sebe, Gabriela Ileana On a new continued fraction expansion and its ergodic properties. (English and Romanian summaries) **2005k:11159**
Skorokhod, Anatolii V. *see* **Gikhman, Iosif I., 2005a:60002**
Strauss, Werner (*with* Macheras, N. D.; Musiał, K.) Splitting of liftings in products of probability spaces. (English summary) **2005g:28010**
— *see also* **Macheras, N. D. et al., 2005a:28013** *and* **Musiał, K. et al., 2005h:28011**
Sun, Ping[1] (*with* Wang, Tian Ming) A probabilistic interpretation to umbral calculus. (English and Chinese summaries)
Sun, Yeneng *see* **Keisler, H. Jerome, 2005a:60012**
Szeptycki, Paweł *see* **Mycielski, Jan, 2005c:62027**
Tözeren, Aydin (*with* Coward, Charles W.; Petushi, Sokol P.) Origins and evolution of cell phenotypes in breast tumors. (English summary)
Wang, Tian Ming *see* **Sun, Ping[1]**
Ylinen, Kari *see* **Lahti, Pekka et al., 2005k:81033**

60A99 None of the above, but in this section

Kreinovich, Vladik *see* **Nguyen, Hung Trung et al., 2005e:60009**
Longpré, Luc *see* **Nguyen, Hung Trung et al., 2005e:60009**
Nguyen, Hung Trung (*with* Kreinovich, Vladik; Longpré, Luc) Dirty pages of logarithm tables, lifetime of the universe, and (subjective) probabilities on finite and infinite intervals. (English summary) **2005e:60009**

Items with secondary classifications in 60A99

Diaconis, Persi (*with* Holmes, Susan) A Bayesian peek into Feller volume I. (English summary) **2005e:60022**
Holmes, Susan *see* **Diaconis, Persi, 2005e:60022**

60Bxx Probability theory on algebraic and topological structures

Items with secondary classifications in 60Bxx

Gikhman, Iosif I. (*with* Skorokhod, Anatolii V.) ★ The theory of stochastic processes. I. **2005a:60002**
(Kotz, Samuel) *see* **Gikhman, Iosif I., 2005a:60002**
Skorokhod, Anatolii V. *see* **Gikhman, Iosif I., 2005a:60002**

60B05 Probability measures on topological spaces

Chebotarev, V. I. *see* **Nagaev, S. V., 2005g:60014**
Del Muto, Mauro (*with* Figà-Talamanca, Alessandro) Diffusion on locally compact ultrametric spaces. (English summary) **2005c:60004**
Figà-Talamanca, Alessandro *see* **Del Muto, Mauro, 2005c:60004**
Inoue, Akihiko On the worst conditional expectation. (English summary) **2005c:60005**
Lewis, Thomas M. (*with* Pritchard, Geoffrey) Tail properties of correlation measures. (English summary) **2005j:60011**
Nagaev, S. V. (*with* Chebotarev, V. I.) On the accuracy of Gaussian approximation in a Hilbert space. (Russian. Russian summary) **2005g:60014**
— (*with* Chebotarev, V. I.) On the accuracy of Gaussian approximation in Hilbert space [Translation of Mat. Tr. 7 (2004), no. 1, 91–152; MR2068278 (2005g:60014)]. (English summary)

Pritchard, Geoffrey *see* **Lewis, Thomas M., 2005j:60011**
Raynaud de Fitte, Paul (*with* Zięba, Wiesław) On the construction of a stable sequence with given density. (English summary) **2005d:60008**
Rustad, Alf B. The median in multidimensional spaces. (English summary) **2005i:60011**
Sturm, Karl-Theodor Probability measures on metric spaces of nonpositive curvature. (English summary) **2005d:60009**
Zięba, Wiesław *see* **Raynaud de Fitte, Paul, 2005d:60008**

Items with secondary classifications in 60B05

Asadi, Majid (*with* Ebrahimi, Nader; Hamedani, G. G.; Soofi, Ehsan S.) Maximum dynamic entropy models. (English summary) **2005b:94014**
Attali, Jean-Gabriel Ergodicity of a certain class of non Feller models: applications to ARCH and Markov switching models. (English summary) **2005g:60110**
Banakh, Taras O. (*with* Bogachev, Vladimir I.; Kolesnikov, A. V.) Topological spaces with the strong Skhorokhod property. II. (English summary) [Topological spaces with the strong Skorokhod property. II] **2005h:54030**
Barthe, Franck Infinite dimensional isoperimetric inequalities in product spaces with the supremum distance. (English summary) **2005f:28032**
Biggins, J. D. Large deviations for mixtures. (English summary) **2005k:60082**
Bogachev, Vladimir I. *see* **Banakh, Taras O. et al., 2005h:54030**
Bosi, Gianni Expected utility with pseudotransitive preferences. (English summary) **2005f:91053**
Džamonja, Mirna (*with* Plebanek, Grzegorz) Precalibre pairs of measure algebras. (English summary) **2005j:03041**
Ebrahimi, Nader *see* **Asadi, Majid et al., 2005b:94014**
Florescu, Liviu C. Relaxed narrow convergence in Young measure spaces. (English summary) **2005d:28026**
Frenk, Johannes B. G. (*with* Kassay, Gábor; Protasov, Vladimir Yu.) On Borel probability measures and noncooperative game theory. (English summary) **2005j:91005**
Godefroy, Laurent Propriété de Choquet-Deny et fonctions harmoniques sur les hypergroupes commutatifs. (French summary) [Choquet-Deny property and harmonic functions on commutative semigroups] **2005m:28036**
Goleţ, Ioan On contractions in probabilistic metric spaces. (English and Serbo-Croatian summaries)
Hamedani, G. G. *see* **Asadi, Majid et al., 2005b:94014**
Höhle, U. Many valued topologies and Borel probability measures. (*see* **2005c:54006**)
Kassay, Gábor *see* **Frenk, Johannes B. G. et al., 2005j:91005**
Kolesnikov, A. V. *see* **Banakh, Taras O. et al., 2005h:54030**
Martin, Keye (*with* Mislove, Michael; Worrell, James) Measuring the probabilistic powerdomain. (English summary) **2005g:68093**
Mislove, Michael *see* **Martin, Keye et al., 2005g:68093**
Ol′shanskiĭ, Grigoriĭ Probability measures on dual objects to compact symmetric spaces, and hypergeometric identities. (Russian. Russian summary) **2005j:43008**
Plebanek, Grzegorz *see* **Džamonja, Mirna, 2005j:03041**
Protasov, Vladimir Yu. *see* **Frenk, Johannes B. G. et al., 2005j:91005**
Pugachev, O. V. Sobolev capacities of a set of configurations with multiple points in the Poisson space. (Russian. Russian summary) **2005m:31005**
Soofi, Ehsan S. *see* **Asadi, Majid et al., 2005b:94014**
Sturm, Karl-Theodor Convex functionals of probability measures and nonlinear diffusions on manifolds. (English and French summaries) **2005k:49126**
Su, Yong Fu On the probabilistic structure spaces. (English summary) **2005c:60016**
Worrell, James *see* **Martin, Keye et al., 2005g:68093**
Zarichnyĭ, M. M. Space of probability measures and absolute extensors in the asymptotic category. (English summary) **2005f:46054**

60B10 Convergence of probability measures

Berti, Patrizia (*with* Rigo, Pietro) Convergence in distribution of nonmeasurable random elements. (English summary) **2005j:60012**
— (*with* Pratelli, Luca; Rigo, Pietro) Limit theorems for a class of identically distributed random variables. (English summary) **2005i:60012**
Crimaldi, Irene On the behavior of the conditional expectations in Skorohod representation theorem. (English summary) **2005b:60010**
Götze, Friedrich (*with* Zaitsev, Andrei Yu.) Approximation of convolutions by accompanying laws without centering. (English and Russian summaries) **2005k:60018**
Hariya, Yuu (*with* Yor, Marc) Limiting distributions associated with moments of exponential Brownian functionals. (English summary) **2005g:60015**
Jiang, Tiefeng Maxima of entries of Haar distributed matrices. (English summary) **2005i:60013**
Keisler, H. Jerome (*with* Sun, Yeneng) A metric on probabilities, and products of Loeb spaces. (English summary) **2005a:60012**
Pratelli, Luca *see* **Berti, Patrizia et al., 2005i:60012**
Rigo, Pietro *see* **Berti, Patrizia et al., 2005i:60012** *and* **2005j:60012**
Sun, Yeneng *see* **Keisler, H. Jerome, 2005a:60012**
Yor, Marc *see* **Hariya, Yuu, 2005g:60015**
Zaitsev, Andrei Yu. *see* **Götze, Friedrich, 2005k:60018**

Items with secondary classifications in 60B10

Anastassiou, George A. Higher order optimal approximation of Csiszar's f-divergence. (English summary) **2005j:60035**
Anoussis, M. (*with* Gatzouras, D.) A spectral radius formula for the Fourier transform on compact groups and applications to random walks. (English summary) **2005g:43010**
Banakh, Taras O. (*with* Bogachev, Vladimir I.; Kolesnikov, A. V.) Topological spaces with the strong Skhorokhod property. II. (English summary) [Topological spaces with the strong Skorokhod property. II] **2005h:54030**
Bogachev, Vladimir I. *see* **Banakh, Taras O. et al., 2005h:54030**
Budzban, Gregory (*with* Mukherjea, Arunava) Subsemigroups of completely simple semigroups and weak convergence of convolution products of probability measures. (English summary) **2005c:22006**
Castaing, Charles (*with* Raynaud de Fitte, Paul; Valadier, Michel) ★ Young measures on topological spaces. **2005k:28001**
Csiszár, Imre (*with* Matúš, František) Closures of exponential families. (English summary) **2005k:60015**
Davydov, Yu. A. (*with* Zitikis, Ričardas) The influence of deterministic noise on empirical measures generated by stationary processes. (English summary) **2005e:60080**
Gatzouras, D. *see* **Anoussis, M., 2005g:43010**
Högnäs, Göran (*with* Mukherjea, Arunava) Maximal homomorphic group image and convergence of convolution sequences on a semigroup. (English summary) **2005b:28023**
Ivanov, Vladimir Nikolaevich (*with* Ol′shanskiĭ, Grigoriĭ) Kerov's central limit theorem for the Plancherel measure on Young diagrams. (English summary) **2005d:05148**
Käärik, Meelis ★ Fitting sets to probability distributions. (Estonian summary) **2005j:60027**
Kolesnikov, A. V. *see* **Banakh, Taras O. et al., 2005h:54030**
Kusuoka, Shigeo Stochastic Newton equation with reflecting boundary condition. **2005h:60170**
Laurinčikas, Antanas The joint universality for general Dirichlet series. **2005g:11171**
(Li, Hanfeng) *see* **Rieffel, Marc A., (2005g:46131)**
Marton, Katalin Measure concentration for Euclidean distance in the case of dependent random variables. (English summary) **2005f:60040**
Matúš, František *see* **Csiszár, Imre, 2005k:60015**
Mukherjea, Arunava *see* **Högnäs, Göran, 2005b:28023** *and* **Budzban, Gregory, 2005c:22006**
Nieuwenhuis, J. W. (*with* Vellekoop, M. H.) Weak convergence of tree methods to price options on defaultable assets. (English summary) **2005k:60213**
Ol′shanskiĭ, Grigoriĭ *see* **Ivanov, Vladimir Nikolaevich, 2005d:05148**
Raynaud de Fitte, Paul *see* **Castaing, Charles et al., 2005k:28001**
Rieffel, Marc A. Gromov-Hausdorff distance for quantum metric spaces. (English summary) (*see* **2005g:46131**)
Sidorova, N. A. The Smolyanov surface measure on trajectories in a Riemannian manifold. (English summary) **2005h:58065**
Sugita, Hiroshi (*with* Takanobu, Satoshi) The probability of two integers to be co-prime, revisited—on the behavior of CLT-scaling limit. **2005b:11125**
Takanobu, Satoshi *see* **Sugita, Hiroshi, 2005b:11125**
Toscano, Fabricio (*with* Vallejos, Raúl O.; Tsallis, Constantino) Random matrix ensembles from nonextensive entropy. (English summary)
Tsallis, Constantino *see* **Toscano, Fabricio et al.**
Valadier, Michel *see* **Castaing, Charles et al., 2005k:28001**
Vallejos, Raúl O. *see* **Toscano, Fabricio et al.**
Vellekoop, M. H. *see* **Nieuwenhuis, J. W., 2005k:60213**
Xia, Aihua Point processes characterized by their one dimensional distributions. (English summary) **2005c:60060**
Zitikis, Ričardas *see* **Davydov, Yu. A., 2005e:60080**

60B11 Probability theory on linear topological spaces [see also 28C20]

Einmahl, Uwe (*with* Kuelbs, James) Moderate deviation probabilities for open convex sets: nonlogarithmic behavior. (English summary) **2005e:60010**
Ergemlidze, Z. (*with* Shangua, A.; Tarieladze, V. I.) Sample behavior and laws of large numbers for Gaussian random elements. (English summary) **2005b:60011**
Gao, Feng Xin *see* **Zhou, Lei[1], 2005i:60014**
Gorodnīĭ, M. F. On the necessity of a condition for the existence of stationary solutions of a differential equation with an unbounded operator coefficient. (Ukrainian. English summary) **2005a:60013**
Kuelbs, James *see* **Einmahl, Uwe, 2005e:60010**
Kwapień, Stanisław (*with* Tarieladze, V. I.) On a.s. unconditional convergence of random series in Banach spaces. (English summary) **2005e:60011**
Shangua, A. *see* **Ergemlidze, Z. et al., 2005b:60011**
Tarieladze, V. I. *see* **Ergemlidze, Z. et al., 2005b:60011** *and* **Kwapień, Stanisław, 2005e:60011**
Zhou, Lei[1] (*with* Gao, Feng Xin) Existence of B-valued random variable with regular conditional probability distribution. (Chinese. English and Chinese summaries) **2005i:60014**

Items with secondary classifications in 60B11

Abouabassi, Mohamed (*with* Driouich, A.; El-Mennaoui, Omar) Order continuity of the transition semigroup in Banach spaces. (English summary) **2005g:47072**
— (*with* El-Mennaoui, Omar; Keyantuo, Valentin) Characterization of Gaussian semigroups on separable Banach spaces. (English summary) **2005b:47079**
Cordero-Erausquin, Dario (*with* Fradelizi, Matthieu; Maurey, Bernard) The (B) conjecture for the Gaussian measure of dilates of symmetric convex sets and related problems. (English summary) **2005g:60064**
Dettweiler, Egbert The martingale problem on an open subset of a Banach space. (English summary) **2005j:60114**
Diaconis, Persi (*with* Gamburd, Alex) Random matrices, magic squares and matching polynomials. (English summary) **2005k:05015**
Driouich, A. *see* **Abouabassi, Mohamed et al., 2005g:47072**
Edalat, Abbas An extension of Gleason's theorem for quantum computation. (English summary) **2005i:81027**
El-Mennaoui, Omar *see* **Abouabassi, Mohamed et al., 2005b:47079** *and* **2005g:47072**
Fradelizi, Matthieu *see* **Cordero-Erausquin, Dario et al., 2005g:60064**
Gamburd, Alex *see* **Diaconis, Persi, 2005k:05015**
Grigor′ev, P. G. Random linear combinations of functions from L_1. (Russian. Russian summary) **2005e:60045**
Guivarc′h, Yves (*with* Starkov, A. N.) Orbits of linear group actions, random walks on homogeneous spaces and toral automorphisms. (English summary) **2005f:37058**
He, Tong-jun *see* **Hou, You Liang, 2005j:60090**
Hou, You Liang (*with* He, Tong-jun) Vector-valued tree martingales and some inequalities. (English and Chinese summaries) **2005j:60090**
Keyantuo, Valentin *see* **Abouabassi, Mohamed et al., 2005b:47079**
Laurinčikas, Antanas The joint universality for general Dirichlet series. **2005g:11171**

Ledoux, Michel (*with* Zinn, Joel) Probabilistic limit theorems in the setting of Banach spaces. (English summary) **2005e:60012**
Loeb, Peter Albert (*with* Osswald, Horst; Sun, Yeneng; Zhang, Zhixiang) Uncorrelatedness and orthogonality for vector-valued processes. (English summary) **2005d:03121**
Mamporiya, B. I. On the existence and uniqueness of a solution to a stochastic differential equation in a Banach space. (English summary) **2005f:60134**
Martínez, Teresa (*with* Torrea Hernández, José Luis) Boundedness of vector-valued Martingale transforms on extreme points and applications. (English summary) **2005d:60069**
Maurey, Bernard *see* **Cordero-Erausquin, Dario et al., 2005g:60064**
Osswald, Horst *see* **Loeb, Peter Albert et al., 2005d:03121**
Starkov, A. N. *see* **Guivarc'h, Yves, 2005f:37058**
Su, Kuo-Liang Strong limit theorems of Cesaro type means for arrays of orthogonal random elements with multi-dimensional indices in Banach spaces. (English summary) **2005a:60039**
Sun, Yeneng *see* **Loeb, Peter Albert et al., 2005d:03121**
Torrea Hernández, José Luis *see* **Martínez, Teresa, 2005d:60069**
Zhang, Zhixiang *see* **Loeb, Peter Albert et al., 2005d:03121**
Zinn, Joel *see* **Ledoux, Michel, 2005e:60012**

60B12 Limit theorems for vector-valued random variables (infinite-dimensional case)

Bogatyrev, S. A. Bounds for the terms of an asymptotic expansion in the central limit theorem in a Hilbert space. (Russian. Russian summary) **2005f:60016**
Bosq, Denis Erratum and complements to: "Berry-Esseen inequality for linear processes in Hilbert spaces" [Statist. Probab. Lett. **63** (2003), no. 3, 243–247; MR1986323 (2004f:60008)]. **2005j:60013**
Bulinskiĭ, A. V. A statistical version of the central limit theorem for vector-valued random fields. (Russian. Russian summary) **2005i:60015**
Chani, A. S. Discrete stochastic semigroups and associated difference equations with the random coefficients. (English summary) **2005d:60010**
Cheng, Feng Yang (*with* Wang, Yue Bao) A result on complete convergence for weighted sums of arrays of B-valued random variables. (Chinese. English and Chinese summaries) **2005h:60013**
— (*with* Wang, Yue Bao) Complete convergence for weighted sums of arrays of B-valued random variables. (Chinese. English and Chinese summaries) **2005h:60014**
Csörgő, Miklós (*with* Norvaiša, R.) Weighted invariance principle for Banach space-valued random variables. (English and Lithuanian summaries) **2005k:60019**
Dekanov, S. Ya. Statistical D-property of Voronoĭ summation methods of the class W_Q^2. (Ukrainian. English and Ukrainian summaries) **2005f:60017**
Deng, Dian Liang Wittmann's law of iterated logarithm for tail sums of B-valued-random variables. (English summary) **2005f:60018**
Du, Yan Jun (*with* Li, Zi Zhen) Compound Poisson approximation theorems. (Chinese. English and Chinese summaries)
Gan, Shi Xin On the strong law of large numbers for non-independent B-valued random variables. (English summary) **2005h:60015**
— *see also* **Qiu, De Hua**
Giuliano Antonini, Rita *see* **Volodin, Andrei I. et al., 2005i:60017**
Hu, Tien Chung *see* **Volodin, Andrei I. et al., 2005i:60017**
Ledoux, Michel (*with* Zinn, Joel) Probabilistic limit theorems in the setting of Banach spaces. (English summary) **2005e:60012**
Li, Zi Zhen *see* **Du, Yan Jun**
Matsak, Ī. K. On the weak convergence of extremal random elements in some Banach spaces. (Ukrainian. Ukrainian summary) **2005i:60016**
Mourid, Tahar Processus autorégressifs hilbertiens à coefficients aléatoires. (English and French summaries) [Hilbertian autoregressive processes with stochastic coefficients]
Norvaiša, R. *see* **Csörgő, Miklós, 2005k:60019**
Qiu, De Hua (*with* Gan, Shi Xin) Complete convergence for arrays of rowwise independent B-valued random elements. (Chinese. English and Chinese summaries)
— (*with* Yang, Xiang Qun) L^r convergence of weighted sums of arrays of B-valued random elements. (Chinese. English and Chinese summaries) **2005k:60020**
Rosalsky, Andrew (*with* Volodin, Andrei I.) On the weak limiting behavior of almost surely convergent row sums from infinite arrays of rowwise independent random elements in Banach spaces. (English summary) **2005a:60014**
— (*with* Taylor, Robert Lee) Some strong and weak limit theorems for weighted sums of i.i.d. Banach space valued random elements with slowly varying weights. (English summary) **2005k:60021**
Sharipov, O. Sh. The law of the iterated logarithm for weakly dependent random variables with values in a Hilbert space. (Russian. Russian summary) **2005f:60019**
Taylor, Robert Lee *see* **Rosalsky, Andrew, 2005k:60021**
Tómács, Tibor Convergence rates in the law of large numbers for arrays of Banach space valued random elements. (English summary) **2005j:60014**
Volodin, Andrei I. (*with* Giuliano Antonini, Rita; Hu, Tien Chung) A note on the rate of complete convergence for weighted sums of arrays of Banach space valued random elements. (English summary) **2005i:60017**
— *see also* **Rosalsky, Andrew, 2005a:60014**
Wang, Yue Bao *see* **Cheng, Feng Yang, 2005h:60013** *and* **2005h:60014**
Yang, Xiang Qun *see* **Qiu, De Hua, 2005k:60020**
Zinn, Joel *see* **Ledoux, Michel, 2005e:60012**

Items with secondary classifications in 60B12

Al'beverio, S. (*with* Liang, Song) Asymptotic expansions for the Laplace approximations of sums of Banach space-valued random variables. (English summary) **2005m:62044**
Allam, Abdellaziz (*with* Mourid, Tahar) Une régularité absolue restreinte des processus linéaires hilbertiens. (English and French summaries) [Restricted absolute regularity of Hilbert-space-valued linear processes] **2005m:60062**
Arcones, Miguel A. Large deviations of empirical processes. (English summary) **2005a:60035**
Bosq, Denis Moyennes mobiles hilbertiennes standard. (English and French summaries) [Standard moving averages in Hilbert spaces] **2005k:62188**
Brofferio, Sara Speed of stochastic locally contractive systems. (English summary) **2005a:62193**
Chen, Xia[1] Exponential asymptotics and law of the iterated logarithm for intersection local times of random walks. (English summary) **2005m:60174**
— (*with* Li, Wenbo V.) Large and moderate deviations for intersection local times. (English summary) **2005m:60175**
Đặng Hùng Thắng (*with* Thinh, Nguyen) Random bounded operators and their extension. (English summary) **2005i:47064**
Diamond, Phil (*with* Kloeden, Peter E.; Vladimirov, Igor) Mean anisotropy of homogeneous Gaussian random fields and anisotropic norms of linear translation-invariant operators on multidimensional integer lattices. (English summary) **2005k:60156**
Dudley, R. M. Statistical nearly universal Glivenko-Cantelli classes. (English summary) **2005f:62040**
Einmahl, Uwe (*with* Kuelbs, James) Moderate deviation probabilities for open convex sets: nonlogarithmic behavior. (English summary) **2005e:60010**
Ergemlidze, Z. (*with* Shangua, A.; Tarieladze, V. I.) Sample behavior and laws of large numbers for Gaussian random elements. (English summary) **2005b:60011**
Ghoudi, Kilani (*with* Rémillard, Bruno) Empirical processes based on pseudo-observations. II. The multivariate case. (English summary) **2005j:62110**
Graham, Carl Functional central limit theorems for a large network in which customers join the shortest of several queues. (English summary) **2005k:60301**
He, Shu Yuan (*with* Wang, Yan Hua[1]) The law of the iterated logarithm of the Kaplan-Meier integral and its application. (English summary) **2005b:60071**
Īksanov, Oleksandr M. (*with* Jurek, Zbigniew J.; Schreiber, Bertram M.) A new factorization property of the selfdecomposable probability measures. (English summary) **2005b:60036**
Jurek, Zbigniew J. *see* **Īksanov, Oleksandr M. et al., 2005b:60036**
Kloeden, Peter E. *see* **Diamond, Phil et al., 2005k:60156**
Kuelbs, James *see* **Einmahl, Uwe, 2005e:60010**
Kurtz, Thomas G. (*with* Xiong, Jie) A stochastic evolution equation arising from the fluctuations of a class of interacting particle systems. (English summary) **2005m:60136**
Li, Wenbo V. *see* **Chen, Xia[1], 2005m:60175**
Liang, Song *see* **Al'beverio, S., 2005m:62044**
Liu, Wen[1] *see* **Wang, Zhong Zhi[1], 2005e:60074**
Menneteau, Ludovic Some laws of the iterated logarithm in Hilbertian autoregressive models. (English summary) **2005k:60099**
Mourid, Tahar *see* **Allam, Abdellaziz, 2005m:60062**
Račkauskas, Alfredas (*with* Suquet, Charles) Necessary and sufficient condition for the functional central limit theorem in Hölder spaces. (English summary) **2005b:60085**
Rémillard, Bruno *see* **Ghoudi, Kilani, 2005j:62110**
Schreiber, Bertram M. *see* **Īksanov, Oleksandr M. et al., 2005b:60036**
Shangua, A. *see* **Ergemlidze, Z. et al., 2005b:60011**
Su, Chun (*with* Tong, Tie Jun) Almost sure convergence of the general Jamison weighted sum of $\mathscr{B}$-valued random variables. (English summary) **2005b:60078**
Su, Kuo-Liang Strong limit theorems of Cesaro type means for arrays of orthogonal random elements with multi-dimensional indices in Banach spaces. (English summary) **2005a:60039**
Suquet, Charles *see* **Račkauskas, Alfredas, 2005b:60085**
Tarieladze, V. I. *see* **Ergemlidze, Z. et al., 2005b:60011**
Thinh, Nguyen *see* **Đặng Hùng Thắng, 2005i:47064**
Tong, Tie Jun *see* **Su, Chun, 2005b:60078**
Vladimirov, Igor *see* **Diamond, Phil et al., 2005k:60156**
Wang, Yan Hua[1] *see* **He, Shu Yuan, 2005b:60071**
Wang, Zhong Zhi[1] (*with* Liu, Wen[1]) Some strong deviation theorems for random sum of discrete stochastic sequence. (English and Chinese summaries) **2005e:60074**
Xiong, Jie *see* **Kurtz, Thomas G., 2005m:60136**

60B15 Probability measures on groups, Fourier transforms, factorization

Babai, László (*with* Pak, Igor) Strong bias of group generators: an obstacle to the "product replacement algorithm". (English summary) **2005b:60012**
Baltrūnas, Aleksandras (*with* Omey, E.) Second-order subexponential behavior of subordinated sequences. (English and Lithuanian summaries) **2005c:60006**
Bendikov, A. D. (*with* Saloff-Coste, Laurent) Brownian motions on compact groups of infinite dimension. (English summary) **2005c:60007**
Brofferio, Sara Renewal theory on the affine group of an oriented tree. (English summary) **2005k:60022**
Brown, Gavin[1] (*with* Yin, Qinghe) Lebesgue measure of sum sets—the basic result for coin-tossing. (English summary) **2005e:60013**
Cartwright, Donald I. (*with* Woess, Wolfgang) Isotropic random walks in a building of type $\tilde{A}_d$. (English summary) **2005d:60011**
Cuny, Christophe (*with* Retzlaff, T. M.) Rate of decay of concentration functions for spread out measures. (English summary) **2005k:60023**
Dani, S. G. (*with* Shah, Riddhi) Asymptotic behaviour under iterated random linear transformations. (English summary) **2005i:60018**
Evans, Steven N. Embedding a Markov chain into a random walk on a permutation group. (English summary) **2005e:60014**
Fel'dman, G. M. *see* **Mironyuk, M. V.**
Gupta, Arjun K. *see* **Nadarajah, Saralees**
Jaworski, Wojciech[1] On the asymptotic behaviour of iterates of averages of unitary representations. (English summary) **2005j:60015**
— Ergodic and mixing probability measures on [SIN] groups. (English summary) **2005g:60016**
Kaimanovich, Vadim A. (*with* Kifer, Yuri; Rubshtein, B.-Z.) Boundaries and harmonic functions for random walks with random transition probabilities. (English summary) **2005k:60024**

Kifer, Yuri *see* **Kaimanovich, Vadim A. et al., 2005k:60024**
Liao, Ming Lévy processes and Fourier analysis on compact Lie groups. (English summary) **2005e:60015**
Mironyuk, M. V. (*with* Fel′dman, G. M.) On the Skitovich-Darmois theorem on a two-dimensional torus. (Russian)
— On Bernstein characterization theorem on a cylinder. (Russian. English summary)
Mustapha, Sami Random walks on unimodular p-adic groups. (English summary) **2005m:60006**
Nadarajah, Saralees (*with* Gupta, Arjun K.) Convolutions of $K/(1+x^n)$. (English summary)
Omey, E. *see* **Baltrūnas, Aleksandras, 2005c:60006**
Pak, Igor *see* **Babai, László, 2005b:60012**
Pap, Gyula[1] General solution of the functional central limit problems on a Lie group. (English summary) **2005f:60020**
Pedersen, Jan (*with* Sato, Ken-iti) Semigroups and processes with parameter in a cone. (English summary) **2005f:60021**
Peres, Yuval (*with* Revelle, David) Mixing times for random walks on finite lamplighter groups. (English summary) **2005m:60007**
Raugi, Albert A general Choquet-Deny theorem for nilpotent groups. (English and French summaries) **2005h:60016**
Retzlaff, T. M. Decay of concentration functions for adapted probabilities on discrete groups. (English summary) **2005k:60025**
— *see also* **Cuny, Christophe, 2005k:60023**
Revelle, David *see* **Peres, Yuval, 2005m:60007**
Rosenblatt, Joseph (*with* Taylor, Michael E.) Group actions and singular martingales. II. The recognition problem. (English summary) **2005c:60008**
Rubshtein, B.-Z. *see* **Kaimanovich, Vadim A. et al., 2005k:60024**
Saloff-Coste, Laurent *see* **Bendikov, A. D., 2005c:60007**
Sato, Ken-iti *see* **Pedersen, Jan, 2005f:60021**
Shah, Riddhi *see* **Dani, S. G., 2005i:60018**
Shubin, C. (*with* Wolff, Thomas H.) Contraction estimates on groups. (English summary) **2005g:60017**
Taylor, Michael E. *see* **Rosenblatt, Joseph, 2005c:60008**
Woess, Wolfgang *see* **Cartwright, Donald I., 2005d:60011**
Wolff, Thomas H. *see* **Shubin, C., 2005g:60017**
Yin, Qinghe *see* **Brown, Gavin[1], 2005e:60013**
Zhang, Hui[2] Equivalence theorem of weak convergence for convolution powers of probability measures on locally compact groups. (Chinese. English and Chinese summaries) **2005e:60016**

Items with secondary classifications in 60B15

Alexopoulos, Georgios K. *see* **Lohoué, Noël, 2005e:22009**
Anoussis, M. (*with* Gatzouras, D.) A spectral radius formula for the Fourier transform on compact groups and applications to random walks. (English summary) **2005g:43010**
Benjamini, Itai (*with* Kalai, Gil; Schramm, Oded) First passage percolation has sublinear distance variance. (English summary) **2005b:60251**
Borowiecka-Olszewska, Marta *see* **Mazurkiewicz, G. et al.**
Brofferio, Sara Speed of stochastic locally contractive systems. (English summary) **2005a:62193**
Brown, Kenneth S. Semigroup and ring theoretical methods in probability. **2005b:60118**
Carlen, E. A. (*with* Lieb, Elliott H.; Loss, Michael) A sharp analog of Young's inequality on S^N and related entropy inequalities. (English summary) **2005k:82046**
Ceccherini-Silberstein, Tullio (*with* Scarabotti, Fabio) Random walks, entropy and hopfianity of free groups. (English summary) **2005h:60131**
Cerone, Pietro (*with* Dragomir, Sever Silvestru) New bounds for the three-point rule involving the Riemann-Stieltjes integral. (English summary) **2005b:60007**
Chan, Onn (*with* Lam, T. K.) Lifting Markov chains to random walks on groups. **2005k:60227**
Conrey, J. B. (*with* Forrester, Peter J.; Snaith, N. C.) Averages of ratios of characteristic polynomials for the compact classical groups. **2005m:11167**
D'Aristotile, Anthony (*with* Diaconis, Persi; Newman, Charles M.) Brownian motion and the classical groups. (English summary) **2005e:60185**
Dey, Dipak K. *see* **Nadarajah, Saralees**
Diaconis, Persi Random walks on groups: characters and geometry. **2005c:20109**
— (*with* Gamburd, Alex) Random matrices, magic squares and matching polynomials. (English summary) **2005k:05015**
— *see also* **D'Aristotile, Anthony et al., 2005e:60185**
Dragomir, Sever Silvestru *see* **Cerone, Pietro, 2005b:60007**
Dungey, Nick Riesz transforms on a discrete group of polynomial growth. (English summary) **2005g:43003**
Eriksen, Niklas (*with* Hultman, Axel) Expected reflection distance in $G(r,1,n)$ after a fixed number of reflections. (English summary) **2005m:05228**
Erschler-Dyubina, Anna Liouville property for groups and manifolds. (English summary) **2005i:43023**
Evans, D. L. (*with* Leemis, L. M.) Algorithms for computing the distributions of sums of discrete random variables. (English summary) **2005k:65010**
Fel′dman, G. M. *see* **Mironyuk, M. V., 2005k:28027**
Forrester, Peter J. (*with* Frankel, N. E.; Garoni, T. M.) Random matrix averages and the impenetrable Bose gas in Dirichlet and Neumann boundary conditions. (English summary) **2005m:82069**
— *see also* **Conrey, J. B. et al., 2005m:11167**
Frankel, N. E. *see* **Forrester, Peter J. et al., 2005m:82069**
Gamburd, Alex Expander graphs, random matrices and quantum chaos. (English summary) **2005k:81087**
— *see also* **Diaconis, Persi, 2005k:05015**
Gao. Fu Qing (*with* Quastel, Jeremy) Exponential decay of entropy in the random transposition and Bernoulli-Laplace models. (English summary) **2005a:60155**
Garoni, T. M. *see* **Forrester, Peter J. et al., 2005m:82069**
Gaspari, George *see* **Rudnick, Joseph, 2005b:60001**
Gatzouras, D. *see* **Anoussis, M., 2005g:43010**
Godefroy, Laurent Propriété de Choquet-Deny et fonctions harmoniques sur les hypergroupes commutatifs. (French summary) [Choquet-Deny property and harmonic functions on commutative semigroups] **2005m:28036**
Guivarc'h, Yves (*with* Starkov, A. N.) Orbits of linear group actions, random walks on homogeneous spaces and toral automorphisms. (English summary) **2005f:37058**
Hazod, W. On normalizers and centralizers of compact Lie groups. Applications to structural probability theory. (English summary) **2005e:22003**
Heyer, H. (*with* Pap, Gyula[1]) Gaussian hemigroups on a locally compact group. (English summary) **2005c:43005**
Högnäs, Göran (*with* Mukherjea, Arunava) Maximal homomorphic group image and convergence of convolution sequences on a semigroup. (English summary) **2005b:28023**
Hultman, Axel *see* **Eriksen, Niklas, 2005m:05228**
Ishiwata, Satoshi Asymptotic behavior of a transition probability for a random walk on a nilpotent covering graph. (English summary) **2005g:60023**
Ivanov, Vladimir Nikolaevich (*with* Ol′shanskiĭ, Grigoriĭ) Kerov's central limit theorem for the Plancherel measure on Young diagrams. (English summary) **2005d:05148**
Jaworski, Wojciech[1] Countable amenable identity excluding groups. (English summary) **2005c:47013**
Jiang, Tiefeng Maxima of entries of Haar distributed matrices. (English summary) **2005i:60013**
Kaimanovich, Vadim A. Boundary amenability of hyperbolic spaces. (English summary) **2005j:20051**
Kalai, Gil *see* **Benjamini, Itai et al., 2005b:60251**
Lam, T. K. *see* **Chan, Onn, 2005k:60227**
Leemis, L. M. *see* **Evans, D. L., 2005k:65010**
Lieb, Elliott H. *see* **Carlen, E. A. et al., 2005k:82046**
Liebeck, Martin W. (*with* Shalev, Aner) Fuchsian groups, coverings of Riemann surfaces, subgroup growth, random quotients and random walks. (English summary) **2005e:20076**
Liu, Feng[4] *see* **Ma, N.-Y., 2005c:60015**
Lohoué, Noël (*with* Alexopoulos, Georgios K.) On the asymptotic behavior of convolution powers and heat kernels on Lie groups. (English summary) **2005e:22009**
Loss, Michael *see* **Carlen, E. A. et al., 2005k:82046**
Ma, N.-Y. (*with* Liu, Feng[4]) A novel analytical scheme to compute the n-fold convolution of exponential-sum distribution functions. (English summary) **2005c:60015**
Malinowski, M. T. *see* **Mazurkiewicz, G. et al.**
Malyutin, A. V. The Poisson-Furstenberg boundary of a locally free group. (Russian. English and Russian summaries) **2005b:60241**
Mazurkiewicz, G. (*with* Borowiecka-Olszewska, Marta; Malinowski, M. T.) The arithmetic of convolutions, scale mixtures, and convolution mixtures.
Mironyuk, M. V. (*with* Fel′dman, G. M.) On a characterization theorem on finite abelian groups. (Russian. English summary) **2005k:28027**
— On the Bernstein functional equation. (Russian. English, Russian and Ukrainian summaries) **2005k:62040**
Molchanov, Stanislav Alekseevich (*with* Wang, Xian[1]) On the Benford's empirical law (English summary) **2005h:11162**
Mukherjea, Arunava *see* **Högnäs, Göran, 2005b:28023**
Nadarajah, Saralees (*with* Dey, Dipak K.) Convolutions of the T distribution. (English summary)
Newman, Charles M. *see* **D'Aristotile, Anthony et al., 2005e:60185**
Ol′shanskiĭ, Grigoriĭ *see* **Ivanov, Vladimir Nikolaevich, 2005d:05148**
Pap, Gyula[1] *see* **Heyer, H., 2005c:43005**
Quastel, Jeremy *see* **Gao, Fu Qing, 2005a:60155**
Rao, Calyampudi Radhakrishna (*with* Shanbhag, D. N.) Characterizations of stable laws based on a number theoretic result. (English summary)
Rasmussen, Jørgen Note on stochastic Löwner evolutions and logarithmic conformal field theory. (English summary) **2005k:81285**
Revelle, David Rate of escape of random walks on wreath products and related groups. (English summary) **2005a:60070**
Rudnick, Joseph (*with* Gaspari, George) ★ Elements of the random walk. **2005b:60001**
Samson, Paul-Marie Concentration inequalities for convex functions on product spaces. (English summary) **2005d:60035**
Scarabotti, Fabio *see* **Ceccherini-Silberstein, Tullio, 2005h:60131**
Schramm, Oded *see* **Benjamini, Itai et al., 2005b:60251**
Shalev, Aner *see* **Liebeck, Martin W., 2005e:20076**
Shanbhag, D. N. *see* **Rao, Calyampudi Radhakrishna**
Snaith, N. C. *see* **Conrey, J. B. et al., 2005m:11167**
Sommers, Hans-Jürgen *see* **Życzkowski, Karol, 2005m:81054**
Starkov, A. N. *see* **Guivarc'h, Yves, 2005f:37058**
Sugita, Hiroshi (*with* Takanobu, Satoshi) The probability of two integers to be co-prime, revisited—on the behavior of CLT-scaling limit. **2005b:11125**
Takanobu, Satoshi *see* **Sugita, Hiroshi, 2005b:11125**
Urbański, Aleksander Entropy of a convolution operator. (English summary) **2005b:37011**
Vinnishin, Ya. F. Convolutions of singular distribution functions. (Ukrainian. English and Ukrainian summaries) **2005b:60035**
Wang, Xian[1] *see* **Molchanov, Stanislav Alekseevich, 2005h:11162**
Yazici, Birsen Stochastic deconvolution over groups. (English summary) **2005b:43014**
Zhou, Xiao Wen Some fluctuation identities for Lévy processes with jumps of the same sign. (English summary) **2005k:60149**
Życzkowski, Karol (*with* Sommers, Hans-Jürgen) Average fidelity between random quantum states. (English summary) **2005m:81054**

60B99 None of the above, but in this section

Bareikis, G. (*with* Indlekofer, Karl-Heinz) Arithmetic processes in semigroups. (English and Lithuanian summaries) **2005f:60022**
Bowen, Lewis Couplings of uniform spanning forests. (English summary) **2005e:60017**
Indlekofer, Karl-Heinz *see* **Bareikis, G., 2005f:60022**
Krishnapur, Manjunath (*with* Peres, Yuval) Recurrent graphs where two independent random walks collide finitely often. (English summary) **2005h:60017**

Peres, Yuval *see* **Krishnapur, Manjunath**, **2005h:60017**
Vershik, A. M. Random and universal metric spaces. (Russian. Russian summary) **2005g:60018**
— Random metric spaces and universality. (Russian. Russian summary) **2005g:60019**

Items with secondary classifications in 60B99

Alexopoulos, Georgios K. *see* **Lohoué, Noël**, **2005e:22009** *and* **2005e:43019**
Barlow, Martin T. Heat kernels and sets with fractal structure. **2005e:60166**
Feinsilver, Philip (*with* Kocik, Jerzy; Schott, René) Representations of the Schrödinger algebra and Appell systems. (English summary) **2005a:81086**
Kerov, S. V. A multidimensional hypergeometric distribution and characters of the unitary group. (Russian. English and Russian summaries) **2005a:60018**
Kim, Bong Jin An integral equation for the operator valued function space integral. (English summary) **2005a:28026**
Kocik, Jerzy *see* **Feinsilver, Philip et al.**, **2005a:81086**
Lohoué, Noël (*with* Alexopoulos, Georgios K.) On the large time behavior of heat kernels on Lie groups. (English summary) **2005e:43019**
— (*with* Alexopoulos, Georgios K.) On the asymptotic behavior of convolution powers and heat kernels on Lie groups. (English summary) **2005e:22009**
(Ol′shanskiĭ, Grigoriĭ) *see* **Kerov, S. V.**, **2005a:60018**
Pinelis, Iosif Dimensionality reduction in extremal problems for moments of linear combinations of vectors with random coefficients. (English summary) **2005d:60033**
Raja, C. R. E. Normed convergence property for hypergroups admitting an invariant measure. (English summary) **2005c:43004**
Schott, René *see* **Feinsilver, Philip et al.**, **2005a:81086**
Su, Yong Fu On the probabilistic structure spaces. (English summary) **2005c:60016**

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Adler, Mark (*with* van Moerbeke, P.) Integrals over Grassmannians and random permutations. (English summary) **2005b:60013**
Aldous, David J. (*with* Steele, J. Michael) The objective method: probabilistic combinatorial optimization and local weak convergence. **2005e:60018**
— (*with* Miermont, Grégory; Pitman, Jim) Brownian bridge asymptotics for random p-mappings. (English summary) **2005b:60014**
— (*with* Miermont, Grégory; Pitman, Jim) The exploration process of inhomogeneous continuum random trees, and an extension of Jeulin's local time identity. (English summary) **2005f:60023**
Angel, Omer Growth and percolation on the uniform infinite planar triangulation. (English summary) **2005b:60015**
Archibald, Margaret Restrictions on the position of the maximum/minimum in a geometrically distributed sample. (English summary) (*see* **2005d:00014**)
Ath, Yontha (*with* Sobel, Milton) New binomial and multinomial distributions from graph theory. (*see* **2005j:62007**)
ben-Avraham, Daniel *see* **Sood, V. et al.**
Balakin, S. V. *see* **Savel′ev, L. Ya.**, **2005k:60037**
Baston, Vic J. (*with* Garnaev, A. Yu.) Competition for staff between two departments. (*see* **2005j:91002**)
Belen, Selma (*with* Pearce, Charles E. M.) Rumours with general initial conditions. (English summary) **2005b:60016**
Bender, Edward A. (*with* Lawler, Gregory F.; Pemantle, Robin; Wilf, Herbert S.) Irreducible compositions and the first return to the origin of a random walk. (English summary) **2005m:60008**
Benjamini, Itai (*with* Kesten, Harry; Peres, Yuval; Schramm, Oded) Geometry of the uniform spanning forest: transitions in dimensions 4, 8, 12, ... (English summary) **2005k:60026**
Berestycki, Nathanaël (*with* Durrett, Richard) A phase transition in the random transposition random walk. (English summary) **2005e:60019**
Blei, Ron (*with* Janson, Svante) Rademacher chaos: tail estimates versus limit theorems. (English summary) **2005e:60020**
Bloznelis, Mindaugas Orthogonal decomposition of symmetric functions defined on random permutations. (English summary) **2005m:60009**
Bobkov, Sergei G. (*with* Tetali, Prasad) Modified log-Sobolev inequalities, mixing and hypercontractivity. (English summary) **2005k:60027**
Booth, Hilary S. (*with* MacNamara, Shevarl F.; Nielsen, Ole M.; Wilson, Susan R.) An iterative approach to determining the length of the longest common subsequence of two strings. (English summary) **2005g:60020**
Borkar, Vivek S. (*with* Ezhov, Vladimir V.; Filar, Jerzy A.) Directed graphs, Hamiltonicity and doubly stochastic matrices. (English summary) **2005h:60018**
Boyarinov, R. N. (*with* Ngongo, I. S.; Chubarikov, V. N.) On the modeling of random variables on a sequence of finite abelian groups. (Russian. Russian summary) **2005g:60021**
Broder, Andrei (*with* Mitzenmacher, Michael) Network applications of Bloom filters: a survey. (English summary)
Bruss, F. Thomas (*with* Grübel, Rudolf) On the multiplicity of the maximum in a discrete random sample. (English summary) **2005f:60024**
Burioni, Raffaella (*with* Cassi, Davide; Vezzani, Alessandro) Random walks and physical models on infinite graphs: an introduction. (English summary) **2005h:60019**
Cassi, Davide *see* **Burioni, Raffaella et al.**, **2005h:60019**
(Chabás, José) *see* **Haigh, John**[1]
Chan, Yao-ban (*with* Guttmann, Anthony J.) Some results for directed lattice walkers in a strip. (English summary) **2005b:60017**
Chen, Dayue (*with* Peres, Yuval) Anchored expansion, percolation and speed. (English summary) **2005g:60022**
Chen, Fengxin An extended urn model with application to approximation. (English summary) **2005a:60015**
Chen, Hai Yan[2] (*with* Zhang, Fu Ji) The rapid mixing of random walks defined by an n-cube. (English summary) **2005e:60021**
Cheplyukova, I. A. A case of the limit distribution of the number of cyclic vertices in a random mapping. (Russian. Russian summary) **2005j:60016**
Chistyakov, G. P. (*with* Götze, Friedrich) Distribution of the shape of Markovian random words. (English summary) **2005f:60025**
Christophi, Costas A. (*with* Mahmoud, Hosam M.) The oscillatory distribution of distances in random tries. (English summary) **2005m:60010**
Chubarikov, V. N. *see* **Boyarinov, R. N. et al.**, **2005g:60021**
Cocan, Moise On a possible generation modality of random graphs. (English and Romanian summaries) **2005k:60028**
Compton, K. J. *see* **Milenković, Olgica**, **2005h:60026**
Corteel, Sylvie (*with* Louchard, Guy; Pemantle, Robin) Common intervals of permutations. (English summary) **2005j:60017**
Coulhon, Thierry (*with* Grigor′yan, Alexander) Pointwise estimates for transition probabilities of random walks on infinite graphs. **2005h:60020**
Cox, David R. *see* **Wermuth, Nanny**, **2005c:60011**
Dai, Jack Jie A computable version of the random signs problem and Kolmogorov complexity. (English summary) **2005d:60012**
Dasgupta, Anirban[1] The matching, birthday and the strong birthday problem: a contemporary review. (English summary)
Diaconis, Persi (*with* Holmes, Susan) A Bayesian peek into Feller volume I. (English summary) **2005e:60022**
— Mathematical developments from the analysis of riffle shuffling. **2005a:60016**
— (*with* Erdös, Paul) On the distribution of the greatest common divisor. (English summary) **2005m:60011**
Díaz-Francés, Eloísa (*with* Sprott, David A.) The estimation of $p \geq q$ from two independent binomial samples $b(n, p)$ and $b(m, q)$. (English summary) (*see* **2005h:62009**)
Dohmen, Klaus (*with* Tittmann, Peter) Inequalities of Bonferroni-Galambos type with applications to the Tutte polynomial and the chromatic polynomial. (English summary) **2005f:60026**
Dress, Andreas W. M. (*with* Lokot, T.; Pustyl′nikov, L. D.; Schubert, W.) Poisson numbers and Poisson distributions in subset surprisology. (English summary) **2005k:60029**
Drton, Mathias *see* **Schwingenschlögl, Udo**, **2005g:60025**
Durrett, Richard *see* **Berestycki, Nathanaël**, **2005e:60019**
Entacher, Karl (*with* Laimer, Gerold; Röck, Harald; Uhl, Andreas) Normalization of the spectral test in high dimensions. (English summary)
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Ezhov, Vladimir V. *see* **Borkar, Vivek S. et al.**, **2005h:60018**
Farrell, Edward J. (*with* Gargano, Michael L.; Quintas, Louis V.) An application of star polynomials to discrete random allocation problems. (English summary)
Fehrenbach, Johannes (*with* Rüschendorf, Ludger) Markov chain algorithms for Eulerian orientations and 3-colourings of 2-dimensional Cartesian grids. (English summary) **2005m:60012**
Filar, Jerzy A. *see* **Borkar, Vivek S. et al.**, **2005h:60018**
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— Compatible sequences and a slow Winkler percolation. (English summary) **2005j:60018**
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Garnaev, A. Yu. *see* **Baston, Vic J.**, (**2005j:91002**)
Garrett, Anthony J. M. (*with* Prozesky, Victor M.; Padayachee, J.) Bayesian cherry picking revisited. (English summary) (*see* **2005c:62004**)
Gasparini, Mauro (*with* Margaria, Gabriella; Wynn, Henry P.) Dynamic risk control for project development. (English summary)
Giovagnoli, Alessandra Asymptotic properties of biased coin designs for treatment allocation. (English summary) (*see* **2005f:62009**)
Glendinning, Paul View from the Pennines: making the best of a poor deal.
Gnedin, A. V. Regenerative composition structures: characterisation and asymptotics of block counts. (*see* **2005d:00014**)
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Haigh, John[1] ★ Matemáticas y juegos de azar. (Spanish) [Mathematics and games of chance]
Hast, Gustav Nearly one-sided tests and the Goldreich-Levin predicate. (English summary) **2005d:60013**
Hayter, Anthony J. A probability analysis of the playoff system in sumo tournaments. (English summary) (*see* **2005b:62011**)
Hitczenko, Paweł (*with* Knopfmacher, Arnold) Gap-free compositions and gap-free samples of geometric random variables. (English summary) **2005m:60013**
Holmes, Susan *see* **Diaconis, Persi**, **2005e:60022**
Holroyd, Alexander E. (*with* Liggett, Thomas M.; Romik, Dan) Integrals, partitions, and cellular automata. (English summary) **2005b:60018**
Honda, Katsuya *see* **Tokumitsu, Naoyuki et al.**
Huillet, Thierry (*with* Martínez, Servet A.) Sampling from finite random partitions. (English summary) **2005a:60017**
— On a deposition process on the circle with disorder. (English summary)
Hwang, Frank K. (*with* Liu, Y. C.) A general approach to compute the probabilities of unresolved clones in random pooling designs. (English summary) **2005c:60009**
Ishiwata, Satoshi ★ Geometric and analytic properties in the behavior of random walks on nilpotent covering graphs. **2005f:60027**
— Asymptotic behavior of a transition probability for a random walk on a nilpotent covering graph. (English summary) **2005g:60023**
Janson, Svante (*with* Ruciński, Andrzej) The deletion method for upper tail estimates. (English summary) **2005i:60019**
— *see also* **Blei, Ron**, **2005e:60020**

Joffe, Anatole (*with* Marchand, Éric; Perron, François; Popadiuk, Paul) On sums of products of Bernoulli variables and random permutations. (English summary) **2005e:60023**
Kang, Mihyun Random walks on a finite graph with congestion points. (English summary) **2005f:60028**
Keller, Joseph B. *see* **Newton, Paul K.**
Kenyon, Richard W. (*with* Sheffield, Scott) Dimers, tilings and trees. (English summary) **2005k:60031**
Kerov, S. V. A multidimensional hypergeometric distribution and characters of the unitary group. (Russian. English and Russian summaries) **2005a:60018**
Kesten, Harry *see* **Benjamini, Itai et al., 2005k:60026**
Knopfmacher, Arnold (*with* Prodinger, Helmut) The number of descents in samples of geometric random variables. (English summary) **2005h:60022**
— *see also* **Hitczenko, Paweł, 2005m:60013**
Krikun, M. A. Boundaries of a random triangulation of a disk. (Russian. Russian summary) **2005h:60023**
Laimer, Gerold *see* **Entacher, Karl et al.**
Lawler, Gregory F. *see* **Bender, Edward A. et al., 2005m:60008**
van Leijenhorst, D. C. (*with* van der Weide, Th. P.) A formal derivation of Heaps' law. (English summary) **2005h:60024**
Liggett, Thomas M. *see* **Holroyd, Alexander E. et al., 2005b:60018**
Liu, Li Wei² (*with* Guo, Zhi) Distribution of the hit times and the kill probability in a stochastic duel with searching. (Chinese. English and Chinese summaries) **2005g:60024**
Liu, Y. C. *see* **Hwang, Frank K., 2005c:60009**
Lokot, T. *see* **Dress, Andreas W. M. et al., 2005k:60029**
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MacNamara, Shevari F. *see* **Booth, Hilary S. et al., 2005g:60020**
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Manstavičius, Eugenijus Iterated logarithm laws and the cycle lengths of a random permutation. (English summary) **2005i:60020**
Marchand, Éric *see* **Joffe, Anatole et al., 2005e:60023**
Margaria, Gabriella *see* **Gasparini, Mauro et al.**
Margolius, Barbara H. The dinner-diner matching problem.
Martin, James B. Reconstruction thresholds on regular trees. (English summary) **2005b:60019**
Martínez, Servet A. Some bounds on the coupon collector problem. (English summary) **2005e:60025**
— *see also* **Huillet, Thierry, 2005a:60017**
Masol, V. V. Some applications of probability estimates for a random k-dimensional subspace having a minimal weight. (Ukrainian. Ukrainian summary) **2005h:60025**
Matoušek, Jiří (*with* Stojaković, Miloš) On restricted min-wise independence of permutations. (English summary) **2005d:60014**
Matsunaga, Tetsunari *see* **Tokumitsu, Naoyuki et al.**
McDermott, John P. J. (*with* Sheahan, J. N.) The distribution of first occurrence of patterns of outcomes of Bernoulli experiments. (English summary) **2005k:60032**
Miermont, Grégory *see* **Aldous, David J. et al., 2005b:60014** *and* **2005f:60023**
Milenković, Olgica (*with* Compton, K. J.) Probabilistic transforms for combinatorial urn models. (English summary) **2005h:60026**
Mitzenmacher, Michael *see* **Broder, Andrei**
van Moerbeke, P. *see* **Adler, Mark, 2005b:60013**
Morris, Ben (*with* Peres, Yuval) Evolving sets and mixing. (English summary) **2005k:60033**
Murciano, A. (*with* Lopez-Sanchez, J.; Zamora, Javier; Rodríguez Santa María, Emilia) Approximating an expectation related to cooperative robots. (English summary) **2005k:60034**
Nacu, Şerban (*with* Peres, Yuval) Fast simulation of new coins from old. (English summary) **2005k:60035**
Newton, Paul K. (*with* Keller, Joseph B.) Probability of winning at tennis. I. Theory and data. (English summary)
Ngongo, I. S. *see* **Boyarinov, R. N. et al., 2005g:60021**
Nielsen, Ole M. *see* **Booth, Hilary S. et al., 2005g:60020**
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Panholzer, Alois Destruction of recursive trees. (English summary) **2005e:60026**
— The distribution of the size of the ancestor-tree and of the induced spanning subtree for random trees. (English summary) **2005d:60015**
Pavlov, Yu. L. (*with* Loseva, E. A.) Limit distributions of the maximum size of a tree in a random recursive forest. (Russian. Russian summary) **2005b:60020**
— Limit theorems for the sizes of trees of an unlabeled graph of a random mapping. (Russian. Russian summary) **2005j:60019**
Pearce, Charles E. M. *see* **Belen, Selma, 2005b:60016**
Pemantle, Robin *see* **Corteel, Sylvie et al., 2005j:60017** *and* **Bender, Edward A. et al., 2005m:60008**
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Popadiuk, Paul *see* **Joffe, Anatole et al., 2005e:60023**
Prékopa, András (*with* Gao, Linchun) Bounding the probability of the union of events by aggregation and disaggregation in linear programs. (English summary)
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Rathie, Pushpa Narayan (*with* Zörnig, P.) On the birthday problem: some generalizations and applications. (English summary) **2005d:60016**
Redner, Sidney *see* **Sood, V. et al.**
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Savel'ev, L. Ya. (*with* Balakin, S. V.) Joint distribution of the number of ones and the number of 1-runs in binary Markov sequences. (Russian. Russian summary) **2005k:60037**
Schalekamp, Frans *see* **van Zuylen, Anke, 2005e:60027**
Schramm, Oded *see* **Benjamini, Itai et al., 2005k:60026**
Schubert, W. *see* **Dress, Andreas W. M. et al., 2005k:60029**
Schwingenschlögl, Udo (*with* Drton, Mathias) Seat allocation distributions and seat biases of stationary apportionment methods for proportional representation. (English summary) **2005g:60025**
Sen, Kanwar (*with* Goyal, Babita) Distributions of patterns of two failures separated by success runs of length k. (English summary) **2005c:60010**
Sheahan, J. N. *see* **McDermott, John P. J., 2005k:60032**
Sheffield, Scott *see* **Kenyon, Richard W., 2005k:60031**
Shmaya, Eran (*with* Solan, Eilon) Zero-sum dynamic games and a stochastic variation of Ramsey's theorem. (English summary) **2005g:60026**
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Sood, V. (*with* Redner, Sidney; ben-Avraham, Daniel) First-passage properties of the Erdős-Renyi random graph. (English summary)
Sprott, David A. *see* **Díaz-Francés, Eloísa, (2005h:62009)**
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Tittmann, Peter *see* **Dohmen, Klaus, 2005f:60026**
Tokumitsu, Naoyuki (*with* Matsunaga, Tetsunari; Honda, Katsuya) Statistics in piling block games. (English summary)
Tokushige, Norihide A frog's random jump and the Pólya identity. (English summary) **2005j:60020**
Tshifhumulo, Tuwani A. Combinatorics of geometrically distributed random variables: words and permutations avoiding two or three adjacent patterns. (English summary) **2005h:60028**
Turova, Tatyana S. Erratum: "Dynamical random graphs with memory" [Phys. Rev. E (3) **65** (2002), no. 6, 066102, 9 pp.; MR1920605 (2003e:60022)].
Uhl, Andreas *see* **Entacher, Karl et al.**
Vezzani, Alessandro *see* **Burioni, Raffaella et al., 2005h:60019**
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van der Weide, Th. P. *see* **van Leijenhorst, D. C., 2005h:60024**
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Zhou, Chan (*with* Xie, Huimin) Exact distribution of the occurrence number for K-tuples over an alphabet of non-equal probability letters. (English summary)
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— (*with* Beame, Paul; Molloy, Michael S. O.) A sharp threshold in proof complexity yields lower bounds for satisfiability search. (English summary) **2005f:03093**
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— (*with* Shcherbina, M.; Vengerovskiĭ, V. V.) Eigenvalue distribution of large weighted random graphs. (English summary) **2005h:05186**
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Raič, M. A multivariate CLT for decomposable random vectors with finite second moments. (English summary) **2005k:60078**

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Athreya, Siva R. (*with* Roy, Rahul; Sarkar, Anish) On the coverage of space by random sets. (English summary) **2005d:60018**
Baek, In-Soo Packing dimension of measures on a random Cantor set. (English summary) **2005f:60029**
Barrera, Javiera (*with* Huillet, Thierry; Paroissin, Christian) Size-biased permutation of Dirichlet partitions and search-cost distribution. (English summary) **2005h:60029**
Beneš, Viktor (*with* Sax, Ivan) Stereological estimation of the rose of directions from the rose of intersections. (English summary) (*see* **2005f:60007**)

Bernardini, Alberto (*with* Tonon, Fulvio) Aggregation of evidence from random and fuzzy sets. (English summary)
Bertoin, Jean Random covering of an interval and a variation of Kingman's coalescent. (English summary) **2005f:60030**
Bhatt, Abhay G. (*with* Roy, Rahul) On a random directed spanning tree. (English summary) **2005b:60022**
Bianchi, Gabriele Matheron's conjecture for the covariogram problem. (English summary) **2005i:60021**
Blei, Ron (*with* Gao, Fu Chang) Combinatorial dimension in fractional Cartesian products. (English summary) **2005k:60038**
Bray, Brian M. Simulating transects through two-phase particles. (English summary) (*see* **2005a:62014**)
Buchta, Christian An identity relating moments of functionals of convex hulls. (English summary) **2005j:60022**
Caristi, Giuseppe (*with* Ferrara, Massimiliano) On Buffon's problem for a lattice and its deformations. (English summary) **2005f:60031**
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Couso Blanco, Inés (*with* Sánchez, Luciano; Gil Álvarez, Pedro Ángel) Imprecise distribution function associated to a random set. (English summary) **2005a:60020**
Diamond, Neil T. *see* **Sztendur, Ewa M., (2005a:26002)**
Duma, Andrei (*with* Stoka, Marius Ion) Geometric probabilities for quadratic lattices with quadratic obstacles. (English summary) **2005h:60030**
Fan, Ai Hua[1] (*with* Wu, Jun[2]) On the covering by small random intervals. (English and French summaries) **2005c:60012**
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Feng, Ding (*with* Nguyen, Hung Trung) On statistical inference with random sets. **2005k:60039**
Ferrara, Massimiliano *see* **Caristi, Giuseppe, 2005f:60031**
Finch, Steven (*with* Hueter, Irene) Random convex hulls: a variance revisited. (English summary) **2005m:60015**
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Fontes, Luiz R. G. (*with* Vachkovskaia, Marina; Yambartsev, A. A.) Entropic repulsion on a rarefied wall. (English summary) **2005a:60021**
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Gil Álvarez, Pedro Ángel *see* **Couso Blanco, Inés et al., 2005a:60020**
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Guan, Li (*with* Li, Shoumei) Strong and weak laws of large numbers for weighted sums of fuzzy set-valued random variables. (*see* **2005i:62007**)
Guo, Hong Wen (*with* Hu, Di He) Multifractal decomposition of certain random recursive sets. (Chinese. English and Chinese summaries) **2005h:60032**
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Hug, Daniel (*with* Reitzner, Matthias; Schneider, Rolf) Large Poisson-Voronoi cells and Crofton cells. (English summary) **2005f:60032**
— (*with* Reitzner, Matthias; Schneider, Rolf) The limit shape of the zero cell in a stationary Poisson hyperplane tessellation. (English summary) **2005e:60029**
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Inoue, Hiroshi[1] On laws of large numbers for exchangeable random sets. **2005j:60024**
Isokawa, Yukinao Power law in a one-dimensional random sequential packing. (English summary) **2005f:60033**
Joo, Sang Yeol (*with* Lee, Seung Soo; Yoo, Young Ho) Tightness of level-wise continuous fuzzy random variables. (English summary) **2005a:60022**
— (*with* Choi, Gyeong Suck; Kwon, Joong Sung; Kim, Yun Kyong) Some results on convergence in distribution for fuzzy random sets. (English summary) **2005j:60025**
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Molchanov, Ilya S. Applications of random sets in image analysis. How to average a cat and a dog? **2005j:60026**
— (*with* Shcherbakov, Vadim; Zuev, S. A.) Critical growth of a semi-linear process. (English summary) **2005b:60025**
Møller, Jesper (*with* Torrisi, Giovanni Luca) Generalised shot noise Cox processes. (English summary) **2005k:60040**
Muche, L. The Poisson-Voronoi tessellation: relationships for edges. (English summary) **2005m:60017**
Näther, Wolfgang A random set view on fuzzy random variables. (*see* **2005i:62007**)
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Rataj, Jan On estimation of the Euler number by projections of thin slabs. (English summary) **2005h:60036**
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Shieh, Narn-Rueih (*with* Yu, Jinghu) Dimension properties of random fractals with overlaps. (English summary) **2005m:60018**
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Sztendur, Ewa M. (*with* Diamond, Neil T.) Inequalities for the precision of the path of steepest ascent in response surface methodology. (English summary) (*see* **2005a:26002**)
Takemura, Akimichi (*with* Kuriki, Satoshi) Tail probability via the tube formula when the critical radius is zero. (English summary) **2005g:60027**
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— (*with* López-Díaz, Miguel) A random approximation of set valued càdlàg functions. (English summary) **2005e:60033**
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Torrisi, Giovanni Luca *see* **Møller, Jesper, 2005k:60040**
Tu, Shu-Ju (*with* Fischbach, Ephraim) A formalism for stochastic geometry and its applications. **2005k:60041**
Vachkovskaia, Marina *see* **Fontes, Luiz R. G. et al., 2005a:60021**
Vaisman, Iosif I. Statistical and computational geometry of biomolecular structure. (*see* **2005g:62004**)
Vershik, A. M. (*with* Yakubovich, Yu. V.) Asymptotics of the uniform measure on simplices, and random compositions and partitions. (Russian. Russian summary) **2005h:60038**
Volkov, Stanislav *see* **Cotar, Codina, 2005e:60028**
Vyakhirev, D. V. (*with* Tikhov, M. S.) On the average length of the way out of a forest. **2005e:60034**
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Yu, Jinghu Covering the circle with random open sets. (English summary) **2005c:60014**
— *see also* **Shieh, Narn-Rueih, 2005m:60018**
Zelditch, Steve *see* **Shiffman, Bernard, 2005e:60032**
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Zuev, S. A. *see* **Molchanov, Ilya S. et al., 2005b:60025**

Items with secondary classifications in 60D05

Aliashvili, Teimuraz On invariants of random planar endomorphisms. (English summary) **2005c:14077**
Anan'ev, B. I. On informational sets for multistage statistically uncertain systems. (English summary) **2005a:93149**
Anderson, Greg W. Integral Kašin splittings. (English summary) **2005a:46024**
Artstein, Shiri The change in the diameter of a convex body under a random sign-projection. **2005f:52011**
Ball, Keith M. An elementary introduction to monotone transportation. **2005h:49102**
Baryshnikov, Yu. M. (*with* Yukich, J. E.) Gaussian limits for random measures in geometric probability. (English summary) **2005j:60043**
Beffara, Vincent Hausdorff dimensions for SLE_6. (English summary) **2005k:60295**
Bender, Michael A. (*with* Sethia, Saurabh; Skiena, Steven S.) Data structures for maintaining set partitions. (English summary) **2005a:68049**
Beneš, Viktor (*with* Rataj, Jan) ★ Stochastic geometry: selected topics. **2005g:60002**
Blanchard, Philippe (*with* Gandolfo, D.; Ruiz, Jean; Shlosman, Senya B.) On the Euler-Poincaré characteristic of the random cluster model. (English summary) **2005f:60210**
Böhm, Stephan (*with* Heinrich, Lothar; Schmidt, Volker[1]) Kernel estimation of the spectral density of stationary random closed sets. (English summary) **2005a:62099**

— (*with* Schmidt, Volker[1]) Asymptotic properties of estimators for the volume fractions of jointly stationary random sets. (English summary) **2005j:62193**
Bowen, Lewis Couplings of uniform spanning forests. (English summary) **2005e:60017**
Buchta, Christian On the distribution of the number of vertices of a random polygon. (English summary) **2005k:52014**
Castaldo, Adrianna (*with* Maccheroni, Fabio; Marinacci, Massimo) Random correspondences as bundles of random variables. (English summary) **2005i:28030**
Chen, Dayue (*with* Peres, Yuval) Anchored expansion, percolation and speed. (English summary) **2005g:60022**
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Cooper, Colin The cores of random hypergraphs with a given degree sequence. (English summary) **2005g:05103**
Coupier, David (*with* Desolneux, Agnès; Ycart, Bernard) A zero-one law for first-order logic on random images. (English summary) **2005f:03044**
Couso Blanco, Inés *see* **Miranda, Enrique et al., 2005k:68196**
Cox, David R. *see* **Wermuth, Nanny, 2005c:60011**
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Desolneux, Agnès *see* **Coupier, David et al., 2005f:03044**
Devroye, Luc (*with* Neininger, Ralph) Distances and finger search in random binary search trees. (English summary) **2005e:68032**
Dhar, Deepak *see* **Rajesh, R., 2005m:82061**
Diao, Yuanan (*with* Dobay, A.; Kusner, Robert B.; Millett, K.; Stasiak, Andrzej) The average crossing number of equilateral random polygons. (English summary) **2005a:82039**
Dobay, A. *see* **Diao, Yuanan et al., 2005a:82039**
Donev, Aleksandar Nikola (*with* Torquato, Salvatore; Stillinger, Frank H.) Pair correlation function characteristics of nearly jammed disordered and ordered hard-sphere packings. (English summary) **2005m:82055**
Duplantier, Bertrand Conformal fractal geometry & boundary quantum gravity. (English summary) **2005m:82057**
Ferrari, Pablo Augusto (*with* Landim, Claudio; Thorisson, Hermann) Poisson trees, succession lines and coalescing random walks. (English and French summaries) **2005e:60105**
Galvin, David (*with* Kahn, Jeff) On phase transition in the hard-core model on $\mathbb{Z}^d$. (English summary) **2005c:82034**
Gandolfo, D. *see* **Blanchard, Philippe et al., 2005f:60210**
García-Pelayo, Ricardo Distribution of distance in the spheroid. (English summary) **2005m:86021**
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González-Rodríguez, Gil *see* **Montenegro, Manuel et al., 2005j:62099**
Gregori, P. (*with* van Lieshout, M. N. M.; Mateu, Jorge) Mixture formulae for shot noise weighted point processes. (English summary) **2005d:60081**
Groisser, David Newton's method, zeroes of vector fields, and the Riemannian center of mass. (English summary) **2005e:53042**
Heinrich, Lothar *see* **Böhm, Stephan et al., 2005a:62099**
Hug, Daniel (*with* Schneider, Rolf) Large cells in Poisson-Delaunay tessellations. (English summary) **2005d:52040**
— (*with* Last, Günter; Weil, Wolfgang) A local Steiner-type formula for general closed sets and applications. (English summary) **2005a:53130**
Jiménez, Raúl (*with* Yukich, J. E.) Statistical distances based on Euclidean graphs. (English summary) **2005h:62026**
Kahn, Jeff *see* **Galvin, David, 2005c:82034**
Katona, Gyula O. H. (*with* Mayer, Richard; Woyczyński, Wojbor A.) Length of sums in a Minkowski space. (English summary) **2005d:46017**
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Krätschmer, Volker Probability theory in fuzzy sample spaces. (English summary) **2005i:60007**
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Lasserre, Jean-Bernard Correction: "Bounds on measures satisfying moment conditions" [Ann. Appl. Probab. **12** (2002), no. 3, 1114–1137; MR1925454 (2003g:28012)]. **2005b:28009**
Last, Günter *see* **Hug, Daniel et al., 2005a:53130**
Le, Huiling Estimation of Riemannian barycentres. (English summary) **2005g:58068**
Li, Shoumei (*with* Ogura, Yukio; Kreinovich, Vladik) ★ Limit theorems and applications of set-valued and fuzzy set-valued random variables. **2005b:60002**
van Lieshout, M. N. M. *see* **Gregori, P. et al., 2005d:60081**
Litvak, Alexander E. (*with* Pajor, Alain; Rudelson, Mark; Tomczak-Jaegermann, Nicole; Vershynin, Roman) Random Euclidean embeddings in spaces of bounded volume ratio. (English and French summaries) **2005h:46020**
Liu, Yan-Yan *see* **Zhang, Xiaoqun, 2005d:28023**
Maccheroni, Fabio *see* **Castaldo, Adrianna et al., 2005i:28030**
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Marinacci, Massimo *see* **Castaldo, Adrianna et al., 2005i:28030**
Mase, Shigeru *see* **Sakaguchi, Takayuki, 2005a:62210**
Masol, V. V. Some applications of probability estimates for a random k-dimensional subspace having a minimal weight. (Ukrainian. Ukrainian summary) **2005h:60025**
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Mayer, Johannes A time-optimal algorithm for the estimation of contact distribution functions on random sets. (English summary)
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Mazzolo, Alain Properties of uniform random walks in bounded convex bodies. (English summary) **2005g:82119**
McDonald, Patrick Recent results in geometric analysis involving probability. (English summary) **2005m:58080**
Mendelson, Shahar (*with* Schechtman, Gideon) The shattering dimension of sets of linear functionals. (English summary) **2005f:46019**
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Miranda, Enrique (*with* Couso Blanco, Inés; Gil Álvarez, Pedro Ángel) A random set characterization of possibility measures. (English summary) **2005k:68196**
Montenegro, Manuel (*with* González-Rodríguez, Gil; Colubi, Ana; Gil, María Angeles) Bootstrap approach to test the linear independence between interval-valued random sets. **2005j:62099**
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Nguyen, Hung Trung Choquet weak convergence of capacity functionals of random sets. **2005j:28006**
Ogura, Yukio *see* **Li, Shoumei et al., 2005b:60002**
Okounkov, Andrei Symmetric functions and random partitions. (English summary) **2005c:05197**
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Penrose, Mathew D. ★ Random geometric graphs. **2005j:60003**
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Rajesh, R. (*with* Dhar, Deepak) Convex lattice polygons of fixed area with perimeter-dependent weights. (English summary) **2005m:82061**
Rataj, Jan On set covariance and three-point test sets. (English summary) **2005c:52004**
— *see also* **Beneš, Viktor, 2005g:60002**
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Sakaguchi, Takayuki (*with* Mase, Shigeru) On the threshold method for marked spatial point processes. (English summary) **2005a:62210**
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Schuhmacher, Dominic Distance estimates for Poisson process approximations of dependent thinnings. (English summary) **2005j:60099**
Schütt, Carsten (*with* Werner, Elisabeth) Polytopes with vertices chosen randomly from the boundary of a convex body. (English summary) **2005g:52015**
Sethia, Saurabh *see* **Bender, Michael A. et al., 2005a:68049**
Shafie, K. (*with* Sigal, B.; Siegmund, David O.; Worsley, K. J.) Rotation space random fields with an application to fMRI data. (English summary) **2005i:60098**
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Skiena, Steven S. *see* **Bender, Michael A. et al., 2005a:68049**
Sodin, Mikhail (*with* Tsirelson, Boris) Random complex zeros. I. Asymptotic normality. (English summary) **2005k:60079**
Srivastava, Anuj (*with* Klassen, Eric Paul) Bayesian and geometric subspace tracking. (English summary) **2005a:62131**
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Zhang, Bo[6] *see* **Zhang, Jing-xiao, 2005e:58063**
Zhang, Jing-xiao (*with* Zhang, Bo[6]) Asymptotic flatness of stochastic flow on manifolds (English and Chinese summaries) **2005e:58063**
Zhang, Xiaoqun (*with* Liu, Yan-Yan) The regularity of random graph directed self-similar sets. (English summary) **2005d:28023**

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Ahn, Soohan (*with* Ramaswami, V.) Bilateral phase type distributions. (English summary) **2005m:60022**

Albanese, Angela A. (*with* Sempi, Carlo) Countably generated idempotent copulas. **2005k:60042**

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Amarante, Massimiliano On the uniqueness of convex-ranged probabilities. **2005d:60021**

Aprausheva, N. N. (*with* Sorokin, Stanislav Viktorovich) On the unimodality of a finite mixture of Gaussian distributions. (Russian. Russian summary) **2005i:60022**

Arellano-Valle, Reinaldo B. (*with* Gómez, Héctor W.; Quintana, Fernando A.) A new class of skew-normal distributions. (English summary) **2005i:60023**

— *see also* **Loschi, Rosangela H. et al.**, **2005d:60025**

Arslan, Olcay Family of multivariate generalized t distributions. (English summary) **2005b:60029**

Aryal, Gokarna (*with* Nadarajah, Saralees) On the skew Laplace distribution. (English summary)

Bakirov, N. K. (*with* Mustafaev, A. A-V.) A mean-square trend. (Russian. Russian summary) **2005m:60023**

Balasubramanian, Krishnaswami (*with* Beg, Mirza Iftekhar) Three isomorphic vector spaces—applications to binomial identities, urn models and order statistics. (English summary) **2005e:60035**

Banerjee, Arvind *see* **Banerjee, Mihir B. et al.**, **2005k:60043**

Banerjee, Mihir B. (*with* Banerjee, Arvind; Mishra, Krishna Kant) On a problem of moments. (English summary) **2005k:60043**

Beg, Mirza Iftekhar *see* **Balasubramanian, Krishnaswami**, **2005e:60035**

Cai, Jun (*with* Garrido, José) Asymptotic forms and bounds for tails of convolutions of compound geometric distributions, with applications. (English summary) **2005d:60022**

Carley, H. (*with* Taylor, M. D.) A new proof of Sklar's theorem. (English summary) (*see* **2005a:62016**)

Chantladze, Tamaz (*with* Kandelaki, Nodar; Ugulava, Douglas) Gaussian distribution and Dirichlet series. (English and Georgian summaries) **2005h:60039**

Consul, P. C. (*with* Famoye, Felix) Equivalence of both classes of Lagrangian probability distributions. (English summary) **2005k:60044**

Cuculescu, Ion (*with* Theodorescu, Radu) Maximum domain of attraction for copulas. (English and Spanish summaries) **2005k:60045**

Deng, Yu Hui Probability distribution of sample spacing. (Chinese. English and Chinese summaries) **2005h:60040**

Dey, Dipak K. *see* **Micheas, Athanasios C.**, **2005g:60029**

Durante, Fabrizio (*with* Sempi, Carlo) Compositions of copulas and quasi-copulas. (*see* **2005i:62007**)

Famoye, Felix *see* **Consul, P. C.**, **2005k:60044**

Fredricks, Gregory A. (*with* Nelsen, Roger B.) The Bertino family of copulas. (English summary) **2005f:60035**

Galambos, Janos (*with* Simonelli, Italo) Characterizations of probability distributions by properties of products of random variables. (English summary) **2005h:60041**

Garrido, José *see* **Cai, Jun**, **2005d:60022**

Geluk, Jaap Asymptotics in the symmetrization inequality. (English summary) **2005h:60042**

Giuliano Antonini, Rita (*with* Kozachenko, Yu. V.; Nikitina, T.) Spaces of φ-sub-Gaussian random variables. (English and Italian summaries) **2005f:60036**

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Gómez Sánchez-Manzano, Eusebio (*with* Gómez-Villegas, Miguel A.; Marín-Diazaraque, Juan-Miguel) A survey on continuous elliptical vector distributions. (English summary) **2005g:60028**

Gómez-Villegas, Miguel A. *see* **Gómez Sánchez-Manzano, Eusebio et al.**, **2005g:60028**

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Hamdan, Hasan (*with* Nolan, John P.) Approximating scale mixtures. **2005d:60023**

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Hu, Zhi Shui *see* **Su, Chun et al.**, **2005e:60038**

Huang, Wei-Kwang (*with* Pang, Wan-Kai) The noncentral chi-square distribution revisited. (English summary) **2005h:60043**

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Īksanov, Oleksandr M. (*with* Kim, Che Soong) On a Pitman-Yor problem. (English summary) **2005f:60037**

Jaeger, Manfred A representation theorem and applications to measure selection and noninformative priors. (English summary) **2005k:60046**

Käärik, Meelis ★ Fitting sets to probability distributions. (Estonian summary) **2005j:60027**

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Kim, Che Soong *see* **Īksanov, Oleksandr M.**, **2005f:60037**

Klement, Erich Peter (*with* Mesiar, Radko; Pap, Endre) Transformation of copulas and quasi-copulas. (*see* **2005i:62007**)

— (*with* Kolesárová, Anna) 1-Lipschitz aggregation operators, quasi-copulas and copulas with given diagonals. (*see* **2005i:62007**)

Kolesárová, Anna 1-Lipschitz aggregation operators and quasi-copulas. (English summary) **2005e:60036**

— *see also* **Klement, Erich Peter**, (**2005i:62007**)

Kolpakov, R. M. Closed classes of finite distributions of rational probabilities. (Russian. Russian summary) **2005m:60024**

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Kozachenko, Yu. V. *see* **Giuliano Antonini, Rita et al.**, **2005f:60036**

Krakowiak, Wiesław Remarks about the Dugué problem. (English summary) **2005f:60038**

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Lazard, Daniel Injectivity of real rational mappings: the case of a mixture of two Gaussian laws. (English summary) **2005k:60047**

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Liu, Liming *see* **Shi, Ding Hua et al.**, **2005k:60049**

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Liu, Zai Ming *see* **Xiang, Yang Liu**

Loschi, Rosangela H. (*with* Iglesias, Pilar Loreto; Arellano-Valle, Reinaldo B.) Predictivistic characterizations of multivariate Student-t models. (English summary) **2005d:60025**

Luschgy, Harald *see* **Graf, Siegfried**, **2005b:60030**

Ma, N.-Y. (*with* Liu, Feng^4) A novel analytical scheme to compute the n-fold convolution of exponential-sum distribution functions. (English summary) **2005c:60015**

Ma, Zhi Hao *see* **Xu, Xin Hui et al.**

Mačutek, Ján On two types of partial summations. (English summary) **2005a:60023**

Majerník, V. A dissimilarity measure for an arbitrary number of probability distributions. (English summary)

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Marton, Katalin Measure concentration for Euclidean distance in the case of dependent random variables. (English summary) **2005f:60040**

Mesiar, Radko *see* **Klement, Erich Peter et al.**, (**2005i:62007**)

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Mustafaev, A. A-V. *see* **Bakirov, N. K.**, **2005m:60023**

Nadarajah, Saralees (*with* Ali, M. Masoom) A skewed truncated t distribution. (English summary) **2005h:60044**

— (*with* Gupta, Arjun K.) Products of random variables with Cauchy kernel. (English summary)

— *see also* **Aryal, Gokarna**

Nagar, Daya K. (*with* Zarrazola, Edwin) Distributions of the product and the quotient of independent Kummer-beta variables. (English summary) **2005j:60028**

Nelsen, Roger B. (*with* Quesada Molina, José Juan; Rodríguez Lallena, José Antonio; Úbeda Flores, Manuel) Some new properties of quasi-copulas. (English summary) **2005b:60032**

— *see also* **Fredricks, Gregory A.**, **2005f:60035**

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Oberlinger, Joachim *see* **Krätschmer, Volker**, (**2005i:62007**)

Ojo, Matthew Oladejo (*with* Olapade, A. K.) On the generalized logistic and log-logistic distributions. (English summary) **2005j:60029**

Olapade, A. K. *see* **Ojo, Matthew Oladejo**, **2005j:60029**

Ostrovska, Sofia I. Uncorrelatedness sets for random variables with given distributions. (English summary) **2005j:60030**

— (*with* Stoyanov, Jordan) Stieltjes classes for M-indeterminate powers of inverse Gaussian distributions. (English summary) **2005k:60048**

Pakes, Anthony G. Product integration and characterization of probability laws. (English summary) **2005j:60031**

Pang, Wan-Kai *see* **Huang, Wei-Kwang**, **2005h:60043**

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Rao, Calyampudi Radhakrishna (*with* Rao, Marepalli Bhaskara; Shanbhag, D. N.) Damage models: a Martin boundary connection. (English summary) **2005b:60033**

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Schmuland, Byron Random harmonic series. **2005a:60024**

Sempi, Carlo Conditional expectations and idempotent copulæ. (English summary) (*see* **2005a:62016**)

— Convergence of copulas: critical remarks. (English and Serbo-Croatian summaries) **2005d:60026**

— *see also* **Albanese, Angela A.**, **2005k:60042** *and* **Durante, Fabrizio**, (**2005i:62007**)

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Shi, Ding Hua (*with* Guo, Jinli; Liu, Liming) On the SPH-distribution class. (English summary) **2005k:60049**

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— *see also* **Ostrovska, Sofia I.**, **2005k:60048**

Su, Chun (*with* Hu, Zhi Shui; Tang, Qi He) Characterizations of the heaviness of distribution tails of non-negative variables. (Chinese. English and Chinese summaries) **2005e:60038**

Su, Yong Fu On the probabilistic structure spaces. (English summary) **2005c:60016**

Sun, Li-juan *see* **Tsai, Cary Chi-Liang**, **2005f:60042**

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Triantafyllopoulos, Kostas On the central moments of the multidimensional Gaussian distribution. (English summary) **2005b:60034**
Trutschnig, Wolfgang (*with* Hareter, Dietmar) Fuzzy probability distributions. **2005k:60050**
Tsai, Cary Chi-Liang (*with* Sun, Li-juan) On the discounted distribution functions for the Erlang (2) risk process. (English summary) **2005f:60042**
Úbeda Flores, Manuel *see* **Nelsen, Roger B. et al., 2005b:60032**
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Xiang, Yang Liu (*with* Liu, Zai Ming) Ruin probabilities in compound Poisson risk model with Markov-modulated premium rates. (Chinese. English and Chinese summaries)
Xu, Xin Hui (*with* Wang, Cheng; Ma, Zhi Hao) Decomposition of operator semi-stable distributions. (Chinese. English and Chinese summaries)
Zarrazola, Edwin *see* **Nagar, Daya K., 2005j:60028**

Items with secondary classifications in 60E05

Abe, Sumiyoshi (*with* Kaniadakis, Giorgio; Scarfone, A. M.) Stabilities of generalized entropies. (English summary) **2005f:94046**
Adeyemi, Shola On moments for order statistics in shift parameter exponential distribution. (English summary) **2005g:62083**
— (*with* Ojo, Matthew Oladejo) A generalization of the Gumbel distribution. (English summary) **2005h:62040**
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Ahmad, Bilal (*with* Khan, Irshad Ahmad) A class of continuous probability distributions. (English summary)
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Ali, M. Masoom (*with* Woo, Jungsoo; Nadarajah, Saralees) On the ratio $X/(X+Y)$ for the power function distribution. (English summary)
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Anshelevich, Michael Appell polynomials and their relatives. **2005k:33012**
Antzoulakos, Demetrios L. (*with* Chadjiconstantinidis, Stathis) On mixed and compound mixed Poisson distributions. (English summary) **2005d:62021**
Arellano-Valle, Reinaldo B. (*with* Gómez, Héctor W.; Quintana, Fernando A.) Statistical inference for a general class of asymmetric distributions. (English summary) **2005f:62017**
Arnold, Barry C. (*with* Castillo, Enrique F.; Sarabia, José María) Distributions with beta conditionals. (*see* **2005j:62007**)
— (*with* Castillo, Enrique F.; Sarabia, José María) Distributions with conditionals in truncated weighted families. (English summary)
Asai, Nobuhiro (*with* Kubo, Izumi; Kuo, Hui-Hsiung) Multiplicative renormalization and generating functions. II. (English summary) **2005i:33008**
Ath, Yontha (*with* Sobel, Milton) New binomial and multinomial distributions from graph theory. (*see* **2005j:62007**)
de Baets, Bernard (*with* De Meyer, Hans) From the comparison of ordered lists to the construction of copulas. (*see* **2005i:62007**)
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Bashkirov, A. G. On maximum entropy principle, superstatistics, power-law distribution and Renyi parameter. (English summary) **2005e:82001**
Beĭnenson, L. B. Monotonically nonincreasing random fields on partially ordered sets. II. Probability distributions on polyhedral cones. (Russian. English and Russian summaries) **2005g:28004**
Belov, A. G. (*with* Galkin, V. Ya.) Moment characteristics of the compound Poisson law generalized by the Poisson distribution. (English summary) **2005j:62028**
Ben Alaya, Mohamed (*with* Huillet, Thierry) On max-multiscaling distributions as extended max-semistable ones. (English summary) **2005h:60046**
Berleant, Daniel *see* **Regan, Helen M. et al., 2005b:68246**
Bertoin, Jean (*with* Biane, Philippe; Yor, Marc) Poissonian exponential functionals, q-series, q-integrals, and the moment problem for log-normal distributions. (English summary) **2005h:60143**
Bertoni, Alberto (*with* Choffrut, Christian; Goldwurm, Massimiliano; Lonati, Violetta) Local limit distributions in pattern statistics: beyond the Markovian models. (English summary) **2005e:68121**
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Biane, Philippe *see* **Bertoin, Jean et al., 2005h:60143**
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Bobecka, Konstancja (*with* Wesołowski, Jacek) Multivariate dual regression schemes for the Lukacs theorem. (English summary) **2005h:62145**
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Bobkov, Sergei G. Large deviations via transference plans. **2005b:60061**
— Spectral gap and concentration for some spherically symmetric probability measures. (English summary) **2005i:60028**
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Bouzar, Nadjib Discrete semi-stable distributions. (English summary) **2005k:62029**
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Brandt, Hannelore (*with* Sigmund, Karl) The logic of reprobation: assessment and action rules for indirect reciprocation. (English summary)
Brown, Timothy C. Transforming a random variable to a prescribed distribution: an application to school-based assessment. (English summary) **2005c:62023**
Campos, L. M. B. C. (*with* Marques, J. M. G.) On a combination of gamma and generalized error distributions with application to aircraft flight path deviations. (English summary)
Castagnoli, Erio (*with* Maccheroni, Fabio; Marinacci, Massimo) Choquet insurance pricing: a caveat. (English summary) **2005b:91108**
Castelo, Robert (*with* Perlman, Michael D.) Learning essential graph Markov models from data. (English summary)
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Chadjiconstantinidis, Stathis *see* **Antzoulakos, Demetrios L., 2005d:62021**
Chattopadhyay, Asis Kumar (*with* Khan, Shahjahan) A statistical model of occupational mobility—a salary based measure. (English summary)
Chaudhary, Mohammad Ashraf *see* **Shoukri, M. M. et al.**
Chen, Louis H. Y. (*with* Xia, Aihua) Stein's method, Palm theory and Poisson process approximation. (English summary) **2005d:60080**
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Chikuse, Yasuko Hermite and Laguerre polynomials with complex matrix arguments. (English summary)
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Chou, Chao-Wei (*with* Huang, Wen-Jang) On characterizations of the gamma and generalized inverse Gaussian distributions. (English summary) **2005g:62025**
— (*with* Huang, Wen-Jang) A note on characterizations of the bivariate gamma distribution. (English summary) **2005j:62029**
Chubarikov, V. N. *see* **Boyarinov, R. N. et al., 2005k:62056**
Coelho, Carlos A. The generalized near-integer gamma distribution: a basis for 'near-exact' approximations to the distribution of statistics which are the product of an odd number of independent Beta random variables. (English summary) **2005d:62024**
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Cossette, Hélène (*with* Duchesne, Thierry; Marceau, Étienne) Modeling catastrophes and their impact on insurance portfolios. (English summary) **2005a:62223**
— (*with* Landriault, David; Marceau, Étienne) Exact expressions and upper bound for ruin probabilities in the compound Markov binomial model. (English summary) **2005c:62191**
Costa, Jose A. *see* **Vignat, Christophe et al., 2005c:82008**
Cramer, Erhard (*with* Kamps, Udo; Rychlik, Tomasz) Unimodality of uniform generalized order statistics, with applications to mean bounds. (English summary) **2005c:62087**
Csiszár, Imre (*with* Matúš, František) On information closures of exponential families: a counterexample. (English summary)
Das, Pratap Kumar (*with* Sen, Parongama) Probability distribution of persistent spins in an Ising chain. (English summary)
Dasgupta, Anirban[1] The matching, birthday and the strong birthday problem: a contemporary review. (English summary)
Da Silva, Sergio (*with* Matsushita, Raul; Gleria, Iram; Figueiredo, Annibal; Rathie, Pushpa Narayan) International finance, Lévy distributions, and the econophysics of exchange rates. (English summary) **2005g:91099**
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Diaconis, Persi (*with* Holmes, Susan) A Bayesian peek into Feller volume I. (English summary) **2005e:60022**
— (*with* Freedman, David A.) The Markov moment problem and de Finetti's theorem. I. (English summary) **2005m:60004**
— (*with* Freedman, David A.) The Markov moment problem and de Finetti's theorem. II. (English summary) **2005m:60005**
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van Dorp, Johan René (*with* Mazzuchi, Thomas A.) Parameter specification of the beta distribution and its Dirichlet extensions utilizing quantiles. (*see* **2005j:62007**)
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Dye, Chung-Yuan A note on: "An EOQ model for items with Weibull distributed deterioration, shortages and power demand pattern" [Internat. J. Inform. Management Sci. **13** (2002), no. 2, 19–34; MR1902084 (2003d:90024)] by W.-C. Lee and J.-W. Wu. (English summary) **2005b:90032**
Ebneshahrashoob, Morteza (*with* Gao, Tangan; Sobel, Milton) Sequential window problems. (English summary)
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El-Nakat, Edward *see* **Haidar, Nassar H. S. et al., 2005m:60086a** *and* **2005m:60086b**
Essebbar, Belkheir Double indexed Fibonacci sequences and the bivariate probability

distribution. **2005e:11014**

Fătu-Mihoc, Cristina Ioana *see* **Mihoc, Ion**, **2005h:62079**

Feiveson, Alan H. Limited-range distributions with informative dropout. (*see* **2005j:62007**)

Ferson, Scott A. *see* **Regan, Helen M. et al.**, **2005b:68246**

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Fill, James Allen (*with* Machida, Motoya) Realizable monotonicity and inverse probability transform. (English summary) (*see* **2005a:62016**)

Frankowski, Krzysztof S. *see* **Sobel, Milton**, (**2005j:62007**)

Freedman, David A. *see* **Diaconis, Persi**, **2005m:60004** *and* **2005m:60005**

Fyodorov, Yan V. (*with* Strahov, Eugene) An exact formula for general spectral correlation function of random Hermitian matrices. (English summary) **2005b:82042**

Galkin, V. Ya. *see* **Belov, A. G.**, **2005j:62028**

Gallego, Guillermo (*with* Özer, Özalp) A new algorithm and a new heuristic for serial supply systems. (English summary) **2005j:90002**

Gani, Joseph M. Nonhomogeneous susceptibles and infectives among needle sharing IVDUs. (English summary) (*see* **2005a:62014**)

— Two types of infectives among homogeneous IVDU susceptibles. (English summary) (*see* **2005m:62007**)

Gao, Tangan *see* **Ebneshahrashoob, Morteza et al.**

Gao, Zhicheng (*with* Wormald, Nicholas C.) Asymptotic normality determined by high moments, and submap counts of random maps. (English summary) **2005m:60044**

Garg, Mridula (*with* Mittal, Shweta) On a modified hypergeometric negative binomial distribution. (English summary) **2005g:33007**

Genton, Marc G. *see* **Wang, Jiuzhou et al.**, **2005b:62035**; **2005k:62140** *and* **Ma, Yanyuan**, **2005c:62098**

Genys, J. (*with* Laurinčikas, Antanas) Value distribution of general Dirichlet series. V. (Russian. English, Russian and Lithuanian summaries) **2005k:11186**

Gerber, Hans U. Comment: "A note on the Myers and Read capital allocation formula" [N. Am. Actuar. J. **8** (2004), no. 2, 32–44; MR2064432 (2005a:62229)] by S. J. Mildenhall.

Gerstenkorn, Tadeusz A compound of the generalized negative binomial distribution with the generalized beta distribution. (English summary) **2005k:62033**

Gharib, Mohamed (*with* Nassar, Manal M.; Ramadan, M. M.) On random sum characterization. (English and Arabic summaries) **2005g:62032**

Ghitany, M. E. The monotonicity of the reliability measures of the beta distribution. (English summary) **2005h:62278**

Giraud, Gael (*with* Quah, John K.-H.) Homothetic or Cobb-Douglas behavior through aggregation. (English summary) **2005i:91075**

Glasserman, Paul (*with* Yao, David D.) Optimal couplings are totally positive and more. (English summary) **2005a:62128**

Gleria, Iram *see* **Da Silva, Sergio et al.**, **2005g:91099**

Goldwurm, Massimiliano *see* **Bertoni, Alberto et al.**, **2005e:68121**

Gómez, Héctor W. *see* **Arellano-Valle, Reinaldo B. et al.**, **2005f:62017**

Goovaerts, Marc J. (*with* Kaas, Rob; Dhaene, Jan; Tang, Qi He) Some new classes of consistent risk measures. (English summary) **2005b:91142**

Gouda, Ashraf A. *see* **Mahmoud, M. R.**, **2005f:62021**

Groß, Jürgen ★ A normal distribution course. **2005h:62006**

Gu, Ming *see* **He, Fei et al.**, **2005g:90020**

(Gundlach, Matthias) *see* **CreditRisk$^+$ in the banking industry**, **2005c:91007**

Gupta, Arjun K. (*with* Nadarajah, Saralees) Mathematical properties of the beta distribution. (*see* **2005j:62007**)

— (*with* Nadarajah, Saralees) Order statistics and records. (*see* **2005j:62007**)

— (*with* Nguyen, Truc T.; Sanqui, Jose Almer T.) Characterization of the skew-normal distribution. (English summary) **2005c:62024**

— (*with* Nadarajah, Saralees) On the moments of the beta normal distribution. (English summary) **2005a:62039**

— *see also* **Chen, Tuhao J. et al.**, **2005e:62084**; **Handbook: Beta distribution and its applications**, **2005j:62007**; **Nadarajah, Saralees**, (**2005j:62007**); (**2005j:62007**) *and* (**2005j:62007**)

Haagerup, Uffe (*with* Thorbjørnsen, Steen) Random matrices with complex Gaussian entries. (English summary) **2005b:46142**

Hadžić, Olga (*with* Pap, Endre) New classes of probabilistic contractions and applications to random operators. (English summary) **2005b:47126**

Haidar, Nassar H. S. (*with* Hamzeh, Adnan M.; Hamzeh, Soumaya M.; El-Nakat, Edward) On martingales invoked by stochastic exponential and monomial densities. (English summary) **2005m:60086a**

— (*with* Hamzeh, Adnan M.; Hamzeh, Soumaya M.; El-Nakat, Edward) Corrigendum: "On martingales invoked by stochastic exponential and monomial densities" [Random Oper. Stochastic Equations **12** (2004), no. 4, 349–360; MR2108189 (2005m:60086a)]. **2005m:60086b**

Hamzeh, Adnan M. *see* **Haidar, Nassar H. S. et al.**, **2005m:60086a** *and* **2005m:60086b**

Hamzeh, Soumaya M. *see* **Haidar, Nassar H. S. et al.**, **2005m:60086a** *and* **2005m:60086b**

Haragopal, V. V. (*with* Sampath Kumar, K.; Pandit, S. N. N.) On distributions, which differ only in higher order moments. (English summary)

Harman, Aziz Generalized exponential distribution. (English summary)

Harremoës, Peter (*with* Ruzankin, Pavel S.) Rate of convergence to Poisson law in terms of information divergence. (English summary)

Hassairi, Abdelhamid (*with* Lajmi, S.) Classification of Riesz exponential families on a symmetric cone by invariance properties. (English summary) **2005g:62026**

He, Fei (*with* Gu, Ming; Sun, Jia Guang; Song, Xiaoyu) A stochastic model for cell assignments in PCS networks. (English summary) **2005g:90020**

Heffernan, Janet E. (*with* Resnick, Sidney I.) Hidden regular variation and the rank transform. (English summary)

Hero, A. O., III *see* **Vignat, Christophe et al.**, **2005c:82008**

van der Hoek, John *see* **Elliott, Robert J.**, **2005b:91080**

Holmes, Susan *see* **Diaconis, Persi**, **2005e:60022**

Howlader, M. *see* **Zaman, M. R. et al.**, **2005h:62051**

Hu, Hong Chang *see* **Sun, Hai Yan**, **2005k:62044**

Huang, Wen-Jang *see* **Chou, Chao-Wei**, **2005g:62025** *and* **2005j:62029**

Hughes, C. P. (*with* Rudnick, Zéev) On the distribution of lattice points in thin annuli. **2005e:11122**

Huillet, Thierry *see* **Ben Alaya, Mohamed**, **2005h:60046**

Hürlimann, Werner The algebra of cash flows: theory and application. **2005a:62224**

Iwase, Kōsei (*with* Kanefuji, Koji; Okada, Mitsumasa) Note on a generalized negative hypergeometric distribution. (Japanese. English and Japanese summaries) **2005k:62036**

Iwata, Tetsu (*with* Kurosawa, Kaoru) On the universal hash functions in Luby-Rackoff cipher. (English summary) **2005c:94050**

Jacob, Joy (*with* Jose, K. K.; Mathai, Arak M.) Some properties of real matrix-variate inverted generalized Dirichlet integrals. (English summary) **2005j:62034**

Jaheen, Zeinhum F. (*with* Al-Matrafi, Bakheet N.) Recurrence relations for moments of k-th record values from a class of continuous distributions. (English summary) **2005a:62126**

Jammalamadaka, Sreenivasa Rao (*with* Kozubowski, Tomasz J.) New families of wrapped distributions for modeling skew circular data. (English summary)

Jin, Chen Hui *see* **Li, Bao Hong**, **2005k:62138**

Jones, Michael C. The Möbius distribution on the disc. (English summary) **2005j:62030**

— (*with* Larsen, P. V.) Multivariate distributions with support above the diagonal. (English summary)

— On some expressions for variance, covariance, skewness and L-moments. (English summary) **2005i:62039**

Jose, K. K. *see* **Thomas, Alice**, **2005e:62019**; **2005e:62020** *and* **Jacob, Joy et al.**, **2005j:62034**

Kaas, Rob *see* **Goovaerts, Marc J. et al.**, **2005b:91142**

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Kanefuji, Koji *see* **Iwase, Kōsei et al.**, **2005k:62036**

Kaniadakis, Giorgio *see* **Abe, Sumiyoshi et al.**, **2005f:94046**

Karian, Zaven A. *see* **Dudewicz, Edward J. et al.**, **2005g:62091**

Kawamura, Toshihiko Derivation of the power and generalized inverse Gaussian distributions based on the entropy maximization principle. (English summary) **2005d:62023**

Kelderman, Henk Measurement exchangeability and normal one-factor models. (English summary) **2005h:62148**

Kerov, S. V. A multidimensional hypergeometric distribution and characters of the unitary group. (Russian. English and Russian summaries) **2005a:60018**

Khan, Irshad Ahmad *see* **Ahmad, Bilal**

Khan, Shahjahan *see* **Chattopadhyay, Asis Kumar**

Kindler, Guy (*with* Romik, Dan) On distributions computable by random walks on graphs. (English summary) **2005k:68120**

Kolaczyk, Eric D. (*with* Nowak, Robert D.) Multiscale likelihood analysis and complexity penalized estimation. (English summary) **2005d:62059**

Kotz, Samuel Which is the right Laplace? (English summary) (*see* **2005a:62016**)

— (*with* van Dorp, Johan René) ★ Beyond beta. **2005j:62005**

— *see also* **Nadarajah, Saralees**, **2005m:62033**

Kowalczyk, Teresa (*with* Niewiadomska-Bugaj, M.) A new grade measure of monotone multivariate separability. (English summary) (*see* **2005a:62016**)

Kozubowski, Tomasz J. *see* **Jammalamadaka, Sreenivasa Rao**

Kravtsov, Vladimir E. *see* **Yevtushenko, Oleg**, **2005f:82052**

Krotov, V. F. The quantization property of probability distributions of the characteristics of dynamical systems observed under random perturbations. (Russian. Russian summary) **2005k:81011**

Kubo, Izumi *see* **Asai, Nobuhiro et al.**, **2005i:33008**

Kuo, Hui-Hsiung *see* **Asai, Nobuhiro et al.**, **2005i:33008**

Kurosawa, Kaoru *see* **Iwata, Tetsu**, **2005c:94050**

Kutalik, Zoltán (*with* Razaz, Moe; Baranyi, József) Connection between stochastic and deterministic modelling of microbial growth. (English summary)

Lajmi, S. *see* **Hassairi, Abdelhamid**, **2005g:62026**

Landriault, David *see* **Cossette, Hélène et al.**, **2005c:62191**

Lanzinger, Hartmut (*with* Stadtmüller, Ulrich) Baum-Katz laws for certain weighted sums of independent and identically distributed random variables. (English summary) **2005b:60121**

Larsen, P. V. *see* **Jones, Michael C.**

Laurinčikas, Antanas *see* **Genys, J.**, **2005k:11186**

Lee, Roger W. The moment formula for implied volatility at extreme strikes. (English summary) **2005b:91122**

(Lee, Wen-Chuan) *see* **Dye, Chung-Yuan**, **2005b:90032**

(Lehrbass, Frank) *see* **CreditRisk$^+$ in the banking industry**, **2005c:91007**

Leipnik, Roy B. (*with* Pearce, Charles E. M.) Independent non-identical five-parameter gamma-Weibull variates and their sums. (English summary)

Lesley, F. David (*with* Rotar, Vladimir I.) Some remarks on lower bounds of Chebyshev's type for half-lines. (English summary) **2005b:62042**

Letac, Gérard (*with* Massam, Hélène) All invariant moments of the Wishart distribution. (English summary) **2005f:62092**

Li, Bao Hong (*with* Jin, Chen Hui) Decomposition of the joint distribution of n-valued random variables. (Chinese. English and Chinese summaries) **2005k:62138**

Li, Qingfeng *see* **Yang, Jianguo et al.**

Lijoi, Antonio (*with* Regazzini, Eugenio) Means of a Dirichlet process and multiple hypergeometric functions. (English summary) **2005c:60098**

Lonati, Violetta *see* **Bertoni, Alberto et al.**, **2005e:68121**

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Lu, Yingdong Solving a dynamic resource allocation problem through continuous optimization. (English summary) **2005m:93165**

Ma, Yanyuan (*with* Genton, Marc G.) Flexible class of skew-symmetric distributions. (English summary) **2005c:62098**

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Machida, Motoya *see* **Fill, James Allen**, (**2005a:62016**)

Mahmoud, M. R. (*with* Gouda, Ashraf A.) Characterizations of generalized gamma family distributions and mixture by conditional moments. (English summary) **2005f:62021**

Mankiewicz, Piotr (*with* Tomczak-Jaegermann, Nicole) Quotients of finite-dimensional Banach spaces; random phenomena. **2005f:46018**

Marceau, Étienne *see* **Cossette, Hélène et al.**, **2005a:62223** *and* **2005c:62191**

Marinacci, Massimo *see* **Castagnoli, Erio et al.**, **2005b:91108**

Marques, J. M. G. *see* **Campos, L. M. B. C.**

Márquez-Carreras, David (*with* Tindel, Samy) On exponential moments for functionals defined on the loop group. (English summary) **2005b:58058**

Masjed Jamei, Mohammad Classical orthogonal polynomials with weight function $((ax+b)^2+(cx+d)^2)^{-p}\exp(q\,\mathrm{Arctg}((ax+b)/(cx+d)))$, $x\in(-\infty,\infty)$ and a generalization of T and F distributions. (English summary) **2005b:33011**

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Merhav, Neri (*with* Weinberger, Marcelo J.) On universal simulation of information sources using training data. (English summary) **2005b:62018**

— Achievable key rates for universal simulation of random data with respect to a set of statistical tests. (English summary) **2005b:62017**

Mi, Jie A general approach to the shape of failure rate and MRL functions. (English summary) **2005b:62209**

Mihoc, Ion (*with* Fătu-Mihoc, Cristina Ioana) About the multinomial distribution and its estimation. (English summary) **2005h:62079**

Mildenhall, Stephen J. A note on the Myers and Read capital allocation formula. (English summary) **2005a:62229**

— *see also* **Gerber, Hans U.**

Mironyuk, M. V. On the Bernstein functional equation. (Russian. English, Russian and Ukrainian summaries) **2005k:62040**

Mitov, Kosto V. (*with* Nadarajah, Saralees) Beta distributions in stochastic processes. (*see* **2005j:62007**)

Mittal, Shweta *see* **Garg, Mridula**, **2005g:33007**

Mitzenmacher, Michael A brief history of generative models for power law and lognormal distributions. (English summary) **2005c:68282**

Møller, Thomas Hedging equity-linked life insurance contracts. (English summary)

Moore, Dirk F. (*with* Smith, Woollcott) Applications of the beta-binomial distribution to animal teratology experiments. (*see* **2005j:62007**)

Mycielski, Jan (*with* Szeptycki, Paweł) Minimizing moments. (English summary) **2005c:62027**

Nadarajah, Saralees (*with* Gupta, Arjun K.) Beta function and the incomplete beta function. (*see* **2005j:62007**)

— (*with* Gupta, Arjun K.) Products and linear combinations. (*see* **2005j:62007**)

— (*with* Gupta, Arjun K.) Generalizations and related univariate distributions. (*see* **2005j:62007**)

— (*with* Kotz, Samuel) The beta Gumbel distribution.

— (*with* Kotz, Samuel) On the linear combination and ratio of Laplace random variables. (English summary) **2005m:62033**

— (*with* Kotz, Samuel) Sampling distributions associated with the multivariate t distribution. (English summary)

— (*with* Dey, Dipak K.) Multitude of multivariate t-distributions. (English summary)

— *see also* **Gupta, Arjun K.**, **2005a:62039**; **2005j:62007**; (**2005j:62007**); (**2005j:62007**); **Handbook: Beta distribution and its applications**, **2005j:62007**; **Mitov, Kosto V.**, (**2005j:62007**) *and* **Ali, M. Masoom et al.**

Nagahara, Yuichi A method of simulating multivariate nonnormal distributions by the Pearson distribution system and estimation. (English summary)

Nagaraja, H. N. (*with* Baggs, Geraldine E.) On predicting the maximum component of a bivariate exponential variable. (English summary) **2005h:62267**

Nakhi, Yasmin (*with* Kalla, Shyam L.) Some results on a generalized ω-Jacobi transform. (English summary) **2005m:33009**

Nassar, Manal M. *see* **Gharib, Mohamed et al.**, **2005g:62032**

Nasyrov, F. S. Function decompositions associated with Luzin N-property. (Russian. Russian summary) **2005f:60128**

Navarro, Jorge (*with* Ruiz Gómez, José Maria) A characterization of the multivariate normal distribution by using the hazard gradient. (English summary) **2005d:62093**

Nelsen, Roger B. (*with* Quesada Molina, José Juan; Rodríguez Lallena, José Antonio; Úbeda Flores, Manuel) Multivariate Archimedean quasi-copulas. (English summary) (*see* **2005a:62016**)

Ng, Kai W. (*with* Tang, Qi He) Asymptotic behavior of tail and local probabilities for sums of subexponential random variables. (English summary) **2005g:62034**

Ngongo, I. S. *see* **Boyarinov, R. N. et al.**, **2005k:62056**

Nguyen, Truc T. *see* **Gupta, Arjun K. et al.**, **2005c:62024** *and* **Chen, Tuhao J. et al.**, **2005e:62084**

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Normand, Jean-Marie Calculation of some determinants using the s-shifted factorial. (English summary) **2005h:33004**

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Ojo, Matthew Oladejo The distributions of some functions of gamma random variables. (English summary)

— *see also* **Adeyemi, Shola**, **2005h:62040**

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Oravecz, Ferenc Minimality of the Boolean and the Fermi convolutions. (English summary) **2005d:05019**

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Pakes, Anthony G. Characterization of probability laws via length-biasing and stationary-excess operations. (English summary)

Pandit, S. N. N. *see* **Haragopal, V. V. et al.**

Pap, Endre *see* **Hadžić, Olga**, **2005b:47126**

Paul, D. N. R. *see* **Zaman, M. R. et al.**, **2005h:62051**

Paul, Sudhir R. Applications of the beta distribution. (*see* **2005j:62007**)

Pearce, Charles E. M. *see* **Leipnik, Roy B.**

Perlman, Michael D. *see* **Castelo, Robert**

Pham-Gia, T. Bayesian inference. (*see* **2005j:62007**)

Picinbono, Bernard (*with* Tourneret, Jean-Yves) Singular random signals. (English summary)

Pierre-Loti-Viaud, Daniel Mélanges de lois sur ℕ et crédibilité paramétrique. (French summary) [Distribution mixing in ℕ and parametric credibility] **2005h:62047**

Plakhov, Alexander Exact solutions of the one-dimensional Monge-Kantorovich problem. (Russian. Russian summary) **2005m:49074**

Pommeret, D. A characterization of Lancaster probabilities with margins in a multivariate additive class. (English summary) **2005k:62139**

Pratsevityĭ, N. V. (*with* Baranovs′kiĭ, O. M.) Properties of distributions of random variables with independent differences of consecutive elements of the Ostrogradskiĭ series. (Ukrainian. Ukrainian summary) **2005j:11057**

Prékopa, András (*with* Long, Jianmin; Szántai, Tamás) New bounds and approximations for the probability distribution of the length of the critical path. **2005b:90083**

Quah, John K.-H. *see* **Giraud, Gael**, **2005i:91075**

Quesada Molina, José Juan *see* **Nelsen, Roger B. et al.**, (**2005a:62016**)

Quintana, Fernando A. *see* **Arellano-Valle, Reinaldo B. et al.**, **2005f:62017**

Rabinowitz, Larry ★ Elementary probability with applications.

Raič, M. A multivariate CLT for decomposable random vectors with finite second moments. (English summary) **2005k:60078**

Ram, Chena *see* **Srivastava, Hari M. et al.**, **2005m:33011**

Ramadan, M. M. *see* **Gharib, Mohamed et al.**, **2005g:62032**

Raqab, Mohammad Z. Sharp bounds on the error in approximating the means of record statistics by inverse hazard functions. (English summary) **2005f:62087**

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Ratnarajah, T. (*with* Vaillancourt, Rémi; Alvo, M.) Complex random matrices and Rayleigh channel capacity. (English summary) **2005b:94016**

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Regan, Helen M. (*with* Ferson, Scott A.; Berleant, Daniel) Equivalence of methods for uncertainty propagation of real-valued random variables. (English summary) **2005b:68246**

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Resnick, Sidney I. *see* **Heffernan, Janet E.**

Riečan, Beloslav Representation of probabilities on IFS events. **2005j:62031**

Riffi, Mohamed I. Moments equalities for nonnegative integer-valued random variables. (English summary) **2005g:62033**

Rodríguez Avi, José (*with* Conde-Sánchez, Antonio; Sáez Castillo, Antonio José; Olmo-Jiménez, María José) On discrete multivariate distributions symmetric in frequencies. (English summary) **2005a:62043**

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Ronning, Gerd Linear and nonlinear Dirichlet share equations models. (English summary) **2005e:62154**

de Rooij, Gerrit H. (*with* Stagnitti, Frank) Applications of the beta distribution in soil science. (*see* **2005j:62007**)

Ross, Sheldon M. *see* **Block, Henry W. et al.**, **2005j:62116**

Rotar, Vladimir I. *see* **Lesley, F. David**, **2005b:62042**

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Salakhutdinov, R. Z. Distribution functions of fuzzy probabilistic sets. (Russian) (*see* **2005c:00011**)

Sampath Kumar, K. *see* **Haragopal, V. V. et al.**

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Sharma, S. D. *see* **Singh, R. N.**

Sharma, Yogesh Distribution of the determinant of a non-central complex multivariate matrix. (Hindi. English and Hindi summaries)

Shat·skikh, S. Ya. Some properties of conditional distributions corresponding to generalized random fields. (Russian. English and Russian summaries) **2005i:60099**

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Shmelev, A. B. *see* **Smirnov, A. P. et al.**, **2005g:91148**

Shoukri, M. M. (*with* Chaudhary, Mohammad Ashraf; Al-Halees, A.) Estimating $P(Y<X)$ when X and Y are paired exponential variables. (English summary)

Shukla, Kamlesh Kumar *see* **Yadava, K. N. S. et al.**

Sigmund, Karl *see* **Brandt, Hannelore**

Singh, R. N. (*with* Sharma, S. D.) A generalized probability model for forward birth interval. (English summary)

Smirnov, A. P. (*with* Shmelev, A. B.; Sheinin, E. Ya.) Analysis of Fokker-Planck approach for foreign exchange market statistics study. (English summary) **2005g:91148**

Smith, Woollcott *see* **Moore, Dirk F.**, (**2005j:62007**)

Smythe, R. T. Beta distribution in bioassay. (*see* **2005j:62007**)

Sobel, Milton (*with* Frankowski, Krzysztof S.) Extensions of Dirichlet integrals: their computation and probability applications. (*see* **2005j:62007**)

— *see also* **Ath, Yontha**, (**2005j:62007**) *and* **Ebneshahrashoob, Morteza et al.**

Song, Xiaoyu *see* **He, Fei et al.**, **2005g:90020**

Srivastava, Hari M. (*with* Saxena, Ram Kishore; Ram, Chena) A unified presentation of the Gamma-type functions occurring in diffraction theory and associated probability distributions. (English summary) **2005m:33011**

Stadtmüller, Ulrich *see* **Lanzinger, Hartmut**, **2005b:60121**

Stagnitti, Frank *see* **de Rooij, Gerrit H.**, (**2005j:62007**)

Stoyanov, Jordan (*with* Tolmatz, Leonid) New Stieltjes classes involving generalized gamma distributions. (English summary) **2005h:62048**

— (*with* Tolmatz, Leonid) Method for constructing Stieltjes classes for M-indeterminate probability distributions. (English summary) **2005m:62037**
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Sun, Hai Yan (*with* Hu, Hong Chang) P-norm distribution and its sampling distributions. (Chinese. English and Chinese summaries) **2005k:62044**
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Thomas, Alice (*with* Jose, K. K.) Marshall-Olkin bivariate Pareto distribution and its applications. (English summary) **2005e:62019**
— (*with* Jose, K. K.) Bivariate semi-Pareto minification processes. (English summary) **2005e:62020**
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Vatan, Farrokh Distribution functions of probabilistic automata. (English summary) (*see* **2005j:68008**)
Vignat, Christophe (*with* Hero, A. O., III; Costa, Jose A.) About closedness by convolution of the Tsallis maximizers. (English summary) **2005c:82008**
Wang, Dingcheng (*with* Tang, Qi He) Maxima of sums and random sums for negatively associated random variables with heavy tails. (English summary) **2005j:62038**
Wang, Hong[4] (*with* Yue, Hong[2]) Detecting and diagnosing faults in dynamic stochastic distributions using a rational B-splines approximation to output PDFs. (English summary)
Wang, Jinmei *see* **Yang, Jianguo et al.**
Wang, Jiuzhou (*with* Boyer, Joseph; Genton, Marc G.) A note on an equivalence between chi-square and generalized skew-normal distributions. (English summary) **2005b:62035**
— (*with* Boyer, Joseph; Genton, Marc G.) A skew-symmetric representation of multivariate distributions. (English summary) **2005k:62140**
Wang, Zhaoan *see* **Yang, Jianguo et al.**
Weinberger, Marcelo J. *see* **Merhav, Neri, 2005b:62018**
Wesołowski, Jacek *see* **Bobecka, Konstancja, 2005h:62145** *and* **2005h:62146**
Winkler, Joab R. A statistical analysis of the numerical condition of multiple roots of polynomials. (English summary) **2005d:65079**
Wojnar, G. Gerard *see* **Andersson, Steen A., 2005k:62026**
Wondmagegnehu, Eshetu T. On the behavior and shape of mixture failure rates from a family of IFR Weibull distributions. (English summary) **2005b:62212**
Woo, Jungsoo *see* **Ali, M. Masoom et al.**
Wormald, Nicholas C. *see* **Gao, Zhicheng, 2005m:60044**
(Wu, Jong-Wuu) *see* **Dye, Chung-Yuan, 2005b:90032**
Wüthrich, Mario V. Extreme value theory and Archimedean copulas. (English summary) **2005d:62168**
Wysocki, Włodzimierz Properties of the induced semigroup of an Archimedean copula. (English summary) **2005g:62095**
Xia, Aihua Point processes characterized by their one dimensional distributions. (English summary) **2005c:60060**
— *see also* **Chen, Louis H. Y., 2005d:60080**
Yadava, K. N. S. (*with* Tripathi, S.; Shukla, Kamlesh Kumar) Size-biased geometric distribution and its application to migration data. (English summary)
Yang, Jianguo (*with* Li, Qingfeng; Wang, Zhaoan; Wang, Jinmei) Estimating pedestrian delays at signalized intersections in developing cities by Monte Carlo method. (English summary)
Yang, Zhen Hai *see* **Zhang, Jie[6] et al., 2005g:62031**
Yao, David D. *see* **Glasserman, Paul, 2005a:62128**
Yevtushenko, Oleg (*with* Kravtsov, Vladimir E.) Density of states for almost-diagonal random matrices. (English summary) **2005f:82052**
Yor, Marc *see* **Bertoin, Jean et al., 2005h:60143**
Yue, Hong[2] *see* **Wang, Hong[4]**
Zaman, M. R. (*with* Roy, Manindra Kumar; Paul, D. N. R.; Howlader, M.) Chi-square mixture of some discrete distributions. (English summary) **2005h:62051**
Zhang, Charles X. *see* **Dudewicz, Edward J. et al., 2005g:62091**
Zhang, Jie[6] (*with* Yang, Zhen Hai; Zhao, Ying[2]) Domain transformation method and its application to continuous-distribution random number generation. (Chinese. English and Chinese summaries) **2005g:62031**
Zhang, Xin Sheng *see* **Ding, Ying[2], 2005b:60052**
Zhao, Ying[2] *see* **Zhang, Jie[6] et al., 2005g:62031**
Zvavitch, Artem An isomorphic version of the Busemann-Petty problem for Gaussian measure. (English summary) **2005f:52020**

Items listed otherwise than by author

CreditRisk$^+$ in the banking industry ★ CreditRisk$^+$ in the banking industry. **2005c:91007**
Handbook:
Beta distribution and its applications ★ Handbook of beta distribution and its applications. **2005j:62007**

60E07 Infinitely divisible distributions; stable distributions

Baltrūnas, Aleksandras (*with* Yakymiv, A. L.) Second-order asymptotics of subexponential infinitely divisible distributions. (Russian. Russian summary) **2005m:60026**
Barndorff-Nielsen, Ole E. (*with* Thorbjørnsen, Steen) A connection between free and classical infinite divisibility. (English summary) **2005m:60027**
Becker-Kern, Peter Stochastic summability methods for domains of normal attraction of semistable laws. **2005g:60030**
Ben Alaya, Mohamed (*with* Huillet, Thierry) On max-multiscaling distributions as extended max-semistable ones. (English summary) **2005h:60046**
Bernardoff, Philippe Which negative multinomial distributions are infinitely divisible? (English summary) **2005j:60032**
Braverman, Michael Tail probabilities of subadditive functionals on stable processes with continuous and discrete time. (English summary) **2005e:60039**
Chen, Dian-fa (*with* Zhang, Chun Sheng) On the monotonicity of the function $\pi(x;\alpha,\beta)$. (English and Chinese summaries) **2005h:60047**
Chung, Kai Lai New solution of famous theorem.
— Note on open problem.
George, Preethi Sara *see* **Sebastian, G., 2005k:60052**
Huillet, Thierry *see* **Ben Alaya, Mohamed, 2005h:60046**
Īksanov, Oleksandr M. A hypothesis on the tail behavior of fixed points of a shot noise transform. (Ukrainian. Ukrainian summary) **2005k:60051**
— (*with* Jurek, Zbigniew J.; Schreiber, Bertram M.) A new factorization property of the selfdecomposable probability measures. (English summary) **2005b:60036**
Inoue, Kazuyuki Multiparameter additive processes of mixture type. (English summary) (*see* **2005d:00012**)
Jin, Meng Wei *see* **Wang, Cheng, 2005i:60024**
Jurek, Zbigniew J. (*with* Yor, Marc) Selfdecomposable laws associated with hyperbolic functions. (English summary) **2005j:60033**
— *see also* **Īksanov, Oleksandr M. et al., 2005b:60036**
Kozubowski, Tomasz J. (*with* Meerschaert, Mark M.; Scheffler, Hans-Peter) The operator ν-stable laws. (English summary) **2005h:60048**
Kulikova, A. A. (*with* Prokhorov, Yuriĭ Vasil′evich) One-sided stable distributions and Benford's law. (Russian. Russian summary) **2005m:60028**
Meerschaert, Mark M. *see* **Kozubowski, Tomasz J. et al., 2005h:60048**
Mena, Ramsés H. (*with* Walker, Stephen G.) A density function connected with a non-negative self-decomposable random variable. (English summary) **2005f:60043**
Mitov, Kosto V. *see* **Yanev, Nikolaĭ Mihaylov et al., 2005h:60050**
Pakes, Anthony G. Investigating the structure of truncated Lévy-stable laws. (English summary) **2005d:60028**
— Convolution equivalence and infinite divisibility. (English summary) **2005b:60037**
Prokhorov, Yuriĭ Vasil′evich *see* **Kulikova, A. A., 2005m:60028**
Satheesh, S. (*with* Unnikrishnan Nair, N.) On the stability of geometric extremes. (English summary) **2005m:60029**
Scheffler, Hans-Peter *see* **Kozubowski, Tomasz J. et al., 2005h:60048**
Schreiber, Bertram M. *see* **Īksanov, Oleksandr M. et al., 2005b:60036**
Sebastian, G. (*with* George, Preethi Sara) On a generalization of the Cauchy distribution. (English summary) **2005k:60052**
Soshnikov, Alexander Poisson statistics for the largest eigenvalues of Wigner random matrices with heavy tails. (English summary) **2005k:60053**
Takano, Katsuo On the infinite divisibility of normed conjugate product of gamma function. (English summary) **2005h:60049**
Thorbjørnsen, Steen *see* **Barndorff-Nielsen, Ole E., 2005m:60027**
Unnikrishnan Nair, N. *see* **Satheesh, S., 2005m:60029**
Vinogradov, V. V. On the power-variance family of probability distributions. (English summary) **2005c:60017**
— Errata: "On the power-variance family of probability distributions" [Comm. Statist. Theory Methods **33** (2004), no. 5, 1007–1029; MR2054855 (2005c:60017)].
Walker, Stephen G. *see* **Mena, Ramsés H., 2005f:60043**
Wang, Cheng (*with* Jin, Meng Wei) On operator semi-stable distributions on $\mathbf{R}^N$. (Chinese. English and Chinese summaries) **2005i:60024**
Yakymiv, A. L. Admissible functions for an octant. (Russian. Russian summary) **2005j:60034**
— *see also* **Baltrūnas, Aleksandras, 2005m:60026**
Yanev, George P. *see* **Yanev, Nikolaĭ Mihaylov et al., 2005h:60050**
Yanev, Nikolaĭ Mihaylov (*with* Mitov, Kosto V.; Yanev, George P.) Renewal, regenerative, and branching processes with stable distributions. **2005h:60050**
Yor, Marc *see* **Jurek, Zbigniew J., 2005j:60033**
Zhang, Chun Sheng *see* **Chen, Dian-fa, 2005h:60047**

Items with secondary classifications in 60E07

Albin, J. M. P. (*with* Samorodnitsky, Gennady) On overload in a storage model, with a self-similar and infinitely divisible input. (English summary) **2005e:60085**
Becker-Kern, Peter Random sums of independent random vectors attracted by (semi)-stable hemigroups. (English summary) **2005f:60052**
Beghin, Luisa (*with* Orsingher, Enzo) The distribution of the local time for "pseudo-processes" and its connection with fractional diffusion equations. (English summary) **2005m:60173**
Benaych-Georges, Florent Failure of the Raikov theorem for free random variables. (English summary) **2005k:46175**
Berg, Christian Integral representation of some functions related to the gamma function. (English summary) **2005h:33002**
Bojarski, Jacek (*with* Misiewicz, Jolanta K.) Band copulas as spectral measures for two-dimensional stable random vectors. (English summary) **2005b:62115**
Borowiecka-Olszewska, Marta (*with* Misiewicz, Jolanta K.) About the density of spectral measure of the two-dimensional $S\alpha S$ random vector. (English summary) **2005e:62080**
Bose, Arup (*with* Gangopadhyay, Sreela; Sarkar, Anish; Sengupta, Arindam) Asymptotic properties of sums of upper records. (English summary) **2005i:62043**
Bouzar, Nadjib Discrete semi-stable distributions. (English summary) **2005k:62029**
Chen, Ping-yan On Chover's LIL for weighted sums of stable random variables. (English summary) **2005g:60049**
Cohen, Serge (*with* Taqqu, Murad S.) Small and large scale behavior of the Poissonized Telecom process. (English summary) **2005k:60125**

Demétrio, Clarice G. B. *see* **Kokonendji, Célestin C. et al., 2005h:62052**
Doganoglu, Toker (*with* Mittnik, Stefan; Rachev, Svetlozar T.) Portfolio selection in the presence of heavy-tailed asset returns. (English summary) **2005b:91111**
Dossou-Gbété, Simplice *see* **Kokonendji, Célestin C. et al., 2005h:62052**
Eberlein, Ernst (*with* v. Hammerstein, Ernst August) Generalized hyperbolic and inverse Gaussian distributions: limiting cases and approximation of processes. (English summary) **2005g:60073**
Eisenbaum, Nathalie A connection between Gaussian processes and Markov processes. (English summary) **2005m:60071**
Emmer, Susanne (*with* Klüppelberg, Claudia) Optimal portfolios when stock prices follow an exponential Lévy process. (English summary) **2005b:91113**
Fotopoulos, Stergios B. Type G and spherical distributions on $\mathbb{R}^d$. (English summary) **2005i:62036**
Gangopadhyay, Sreela *see* **Bose, Arup et al., 2005i:62043**
Gut, Allan (*with* Steinebach, Josef) Convergence rates and precise asymptotics for renewal counting processes and some first passage times. (English summary) **2005k:60280**
Hamedani, G. G. (*with* Key, Eric S.; Volkmer, Hans) Solution to a functional equation and its application to stable and stable-type distributions. (English summary) **2005f:39070**
v. Hammerstein, Ernst August *see* **Eberlein, Ernst, 2005g:60073**
van Harn, Klaas *see* **Steutel, Fred W., 2005j:60004**
Hazod, W. On normalizers and centralizers of compact Lie groups. Applications to structural probability theory. (English summary) **2005e:22003**
Houdré, Christian (*with* Marchal, Philippe) On the concentration of measure phenomenon for stable and related random vectors. (English summary) **2005f:60046**
Īksanov, Oleksandr M. Elementary fixed points of the BRW smoothing transforms with infinite number of summands. (English summary) **2005i:60168**
Joulin, Aldéric (*with* Privault, Nicolas) Functional inequalities for discrete gradients and application to the geometric distribution. (English summary) **2005k:60061**
Kashaev, T. R. (*with* Korolev, V. Yu.) Natural estimates of the accuracy of approximation of the distributions of random sums by location mixtures of stable laws. **2005k:60075**
Key, Eric S. *see* **Hamedani, G. G. et al., 2005f:39070**
Klüppelberg, Claudia *see* **Emmer, Susanne, 2005b:91113**
Kokonendji, Célestin C. (*with* Dossou-Gbété, Simplice; Demétrio, Clarice G. B.) Some discrete exponential dispersion models: Poisson-Tweedie and Hinde-Demétrio classes. (English summary) **2005h:62052**
Korolev, V. Yu. *see* **Kashaev, T. R., 2005k:60075**
Lu, Xuewen (*with* Qi, Yongcheng) A note on asymptotic distribution of products of sums. (English summary) **2005h:60068**
Ma, Zhi Hao *see* **Xu, Xin Hui et al.**
Mallows, Colin (*with* Shepp, Larry A.) B-stability. (English summary) **2005m:60192**
Marchal, Philippe *see* **Houdré, Christian, 2005f:60046**
Misiewicz, Jolanta K. *see* **Bojarski, Jacek, 2005b:62115** *and* **Borowiecka-Olszewska, Marta, 2005e:62080**
Mittnik, Stefan *see* **Doganoglu, Toker et al., 2005b:91111**
Obuchowicz, Andrzej (*with* Prętki, Przemysław) Phenotypic evolution with a mutation based on symmetric α-stable distributions. (English summary) **2005d:90147**
Okazaki, Hiromitsu *see* **Takano, Katsuo, (2005m:39001)**
Oleszkiewicz, Krzysztof On p-pseudostable random variables, Rosenthal spaces and l_p^n ball slicing. (English summary) **2005j:46005**
Orsingher, Enzo *see* **Beghin, Luisa, 2005m:60173**
Ortobelli Lozza, Sergio *see* **Rachev, Svetlozar T. et al., 2005g:62184**
Pedersen, Jan (*with* Sato, Ken-iti) Relations between cone-parameter Lévy processes and convolution semigroups. (English summary) **2005f:60121**
Prętki, Przemysław *see* **Obuchowicz, Andrzej, 2005d:90147**
Privault, Nicolas *see* **Joulin, Aldéric, 2005k:60061**
Qi, Yongcheng *see* **Lu, Xuewen, 2005h:60068**
Rachev, Svetlozar T. (*with* Ortobelli Lozza, Sergio; Schwartz, Eduardo) The problem of optimal asset allocation with stable distributed returns. (English summary) **2005g:62184**
— *see also* **Doganoglu, Toker et al., 2005b:91111**
Racheva-Iotova, Boryana *see* **Stoyanov, Stoyan V.**
Rao, Calyampudi Radhakrishna (*with* Shanbhag, D. N.) Characterizations of stable laws based on a number theoretic result. (English summary)
Rocha-Arteaga, Alfonso (*with* Sato, Ken-iti) ★ Topics in infinitely divisible distributions and Lévy processes. **2005e:60005**
Samorodnitsky, Gennady *see* **Albin, J. M. P., 2005e:60085**
Sarkar, Anish *see* **Bose, Arup et al., 2005i:62043**
Sato, Ken-iti *see* **Rocha-Arteaga, Alfonso, 2005e:60005** *and* **Pedersen, Jan, 2005f:60121**
Schwartz, Eduardo *see* **Rachev, Svetlozar T. et al., 2005g:62184**
Seneta, Eugene Fitting the variance-gamma model to financial data. (English summary) **2005d:62134**
Sengupta, Arindam *see* **Bose, Arup et al., 2005i:62043**
Shanbhag, D. N. *see* **Rao, Calyampudi Radhakrishna**
Shepp, Larry A. *see* **Mallows, Colin, 2005m:60192**
Steinebach, Josef *see* **Gut, Allan, 2005k:60280**
Steutel, Fred W. (*with* van Harn, Klaas) ★ Infinite divisibility of probability distributions on the real line. **2005j:60004**
Stoev, Stilian (*with* Taqqu, Murad S.) Asymptotic self-similarity and wavelet estimation for long-range dependent fractional autoregressive integrated moving average time series with stable innovations. (English summary) **2005k:62217**
Stoyanov, Stoyan V. (*with* Racheva-Iotova, Boryana) Univariate stable laws in the field of finance—approximation of density and distribution functions. (English summary)
Suntadkarn, A. Limit distributions for random sums of reciprocals of independent random variables. (English summary)
Szczotka, Władysław (*with* Woyczyński, Wojbor A.) Distributions of suprema of Lévy processes via the heavy traffic invariance principle. (English summary) **2005h:60105**
— (*with* Woyczyński, Wojbor A.) Heavy-tailed dependent queues in heavy traffic. (English summary) **2005k:60293**
Takano, Katsuo (*with* Okazaki, Hiromitsu) The Gauss hypergeometric series with roots outside the unit disk. (English summary) (*see* **2005m:39001**)
Taqqu, Murad S. *see* **Cohen, Serge, 2005k:60125** *and* **Stoev, Stilian, 2005k:62217**
Volkmer, Hans *see* **Hamedani, G. G. et al., 2005f:39070**
Wang, Cheng *see* **Xu, Xin Hui et al.**
Woyczyński, Wojbor A. *see* **Szczotka, Władysław, 2005h:60105** *and* **2005k:60293**
Xu, Xin Hui (*with* Wang, Cheng; Ma, Zhi Hao) Decomposition of operator semi-stable distributions. (Chinese. English and Chinese summaries)
Zaitsev, Andrei Yu. On the approximation of a sample by a Poisson point process. (Russian. English and Russian summaries) **2005f:60091**
Zhukova, G. N. Asymptotic behavior of Student's statistic. (Russian. Russian summary) **2005m:62047**

60E10 Characteristic functions; other transforms

Belov, A. G. (*with* Galkin, V. Ya.) Moment characteristics of the compound Poisson law with a generalizing binomial distribution. (English summary) **2005g:60031**
Chamayou, Jean-Marie-François Products of double gamma, gamma and beta distributions. (English summary) **2005f:60044**
Dickey, James M. *see* **Jiang, Jyh-Ming et al., 2005c:60018**
Dragomir, Sever Silvestru Approximating the Cauchy principal value integral via Hermite-Hadamard type inequalities. (English summary) **2005a:60025**
Egorov, A. V. On the theory of characteristic functions. (Russian) **2005i:60025**
Galkin, V. Ya. *see* **Belov, A. G., 2005g:60031**
Hara, Keisuke Finite dimensional determinants as characteristic functions of quadratic Wiener functionals. (English summary) **2005b:60038**
Jiang, Jyh-Ming (*with* Dickey, James M.; Kuo, Kun-Lin) A new multivariate transform and the distribution of a random functional of a Ferguson-Dirichlet process. (English summary) **2005c:60018**
Kang, Dian Tong On the CVaR transforms with related transforms. (English and Chinese summaries)
Kozhan, D. P. *see* **Solodyannikov, Yu. V., 2005k:60054**
Kuo, Kun-Lin *see* **Jiang, Jyh-Ming et al., 2005c:60018**
Shamarov, N. N. The Fourier transform of distributions of homogeneous random fields with independent increments, and complex Markov-Maslov chains. (Russian) **2005c:60019**
Shestakov, O. V. *see* **Ushakov, Vladimir Georgievich, 2005m:60030**
Solodyannikov, Yu. V. (*with* Kozhan, D. P.) Computation of the characteristic functions of quadratic functionals of Wiener processes. (Russian. English and Russian summaries) **2005k:60054**
Tagliani, Aldo (*with* Velásquez, Yurayh) Inverse Laplace transform for heavy-tailed distributions. (English summary) **2005d:60029**
Ushakov, Vladimir Georgievich (*with* Shestakov, O. V.) The exponential Radon transform of random functions. (Russian. Russian summary) **2005m:60030**
Velásquez, Yurayh *see* **Tagliani, Aldo, 2005d:60029**
Vidakovic, Brani Transforms in statistics. (*see* **2005g:62004**)

Items with secondary classifications in 60E10

Ahmed, Hadi (*with* Kayid, Mohamed) Preservation properties for the Laplace transform ordering of residual lives. (English summary) **2005h:60051**
Bedoya, Elizabeth (*with* Gómez, Armando; Tayal, Vipin) Exact percentage points for testing bipolarity of a multivariate normal model. (English summary) **2005h:62061**
Bertoni, Alberto (*with* Choffrut, Christian; Goldwurm, Massimiliano; Lonati, Violetta) Local limit distributions in pattern statistics: beyond the Markovian models. (English summary) **2005e:68121**
Bojarski, Jacek (*with* Misiewicz, Jolanta K.) Band copulas as spectral measures for two-dimensional stable random vectors. (English summary) **2005b:62115**
Borowiecka-Olszewska, Marta (*with* Misiewicz, Jolanta K.) About the density of spectral measure of the two-dimensional $S\alpha S$ random vector. (English summary) **2005e:62080**
Bose, Arup (*with* Gangopadhyay, Sreela; Sarkar, Anish; Sengupta, Arindam) Asymptotic properties of sums of upper records. (English summary) **2005i:62043**
Boyarinov, R. N. (*with* Chubarikov, V. N.; Ngongo, I. S.) Asymptotic formulas for fractional moments of special sums. (English summary) **2005k:62056**
Cai, Xiao-Qiang (*with* Sun, Xiaoqian; Zhou, Xian) Stochastic scheduling subject to machine breakdowns: the preemptive-repeat model with discounted reward and other criteria. (English summary) **2005b:90055**
Choffrut, Christian *see* **Bertoni, Alberto et al., 2005e:68121**
Chubarikov, V. N. *see* **Boyarinov, R. N. et al., 2005k:62056**
Costa, Jose A. *see* **Vignat, Christophe et al., 2005c:82008**
Diaconis, Persi (*with* Freedman, David A.) The Markov moment problem and de Finetti's theorem. II. (English summary) **2005m:60005**
Ehm, Werner (*with* Gneiting, Tilmann; Richards, Donald St. P.) Convolution roots of radial positive definite functions with compact support. (English summary) **2005g:42012**
Fill, James Allen (*with* Machida, Motoya) Realizable monotonicity and inverse probability transform. (English summary) (*see* **2005a:62016**)
— (*with* Torcaso, Fred) Asymptotic analysis via Mellin transforms for small deviations in L^2-norm of integrated Brownian sheets. (English summary) **2005i:60066**
Fotopoulos, Stergios B. Type G and spherical distributions on $\mathbb{R}^d$. (English summary) **2005i:62036**
Freedman, David A. *see* **Diaconis, Persi, 2005m:60005**
Gangopadhyay, Sreela *see* **Bose, Arup et al., 2005i:62043**
Gneiting, Tilmann *see* **Ehm, Werner et al., 2005g:42012**
Goldwurm, Massimiliano *see* **Bertoni, Alberto et al., 2005e:68121**
Gómez, Armando *see* **Bedoya, Elizabeth et al., 2005h:62061**
Gottvald, Aleš Exponential family and inverse problems. On metamorphoses of probability theory. (English summary) **2005a:60009**
Hamedani, G. G. (*with* Key, Eric S.; Volkmer, Hans) Solution to a functional equation and its application to stable and stable-type distributions. (English summary) **2005f:39070**
Hero, A. O., III *see* **Vignat, Christophe et al., 2005c:82008**
Howlader, M. *see* **Zaman, M. R. et al., 2005h:62051**
Īksanov, Oleksandr M. Elementary fixed points of the BRW smoothing transforms with infinite number of summands. (English summary) **2005i:60168**

Ishiwata, Satoshi ★ Geometric and analytic properties in the behavior of random walks on nilpotent covering graphs. **2005f:60027**
Jurek, Zbigniew J. (*with* Yor, Marc) Selfdecomposable laws associated with hyperbolic functions. (English summary) **2005j:60033**
Kayid, Mohamed *see* **Ahmed, Hadi, 2005h:60051**
Key, Eric S. *see* **Hamedani, G. G. et al., 2005f:39070**
Kim, Kyounghee Moment generating function of the reciprocal of an integral of geometric Brownian motion. (English summary) **2005b:60216**
Klemelä, Jussi Optimal recovery and statistical estimation in L_p Sobolev classes. (English summary) **2005b:62086**
Kokonendji, Célestin C. On UMVU estimator of the generalized variance for natural exponential families. (English summary) **2005d:62031**
Lillo, Rosa E. (*with* Semeraro, Patrizia) Stochastic bounds for discrete-time claim processes with correlated risks. (English summary) **2005b:62215**
Lonati, Violetta *see* **Bertoni, Alberto et al., 2005e:68121**
Machida, Motoya *see* **Fill, James Allen, (2005a:62016)**
Mallows, Colin (*with* Shepp, Larry A.) B-stability. (English summary) **2005m:60192**
Mironyuk, M. V. On the Bernstein functional equation. (Russian. English, Russian and Ukrainian summaries) **2005k:62040**
Misiewicz, Jolanta K. *see* **Bojarski, Jacek, 2005b:62115** *and* **Borowiecka-Olszewska, Marta, 2005e:62080**
Naess, Arvid The reliability of quadratic dynamic systems. (English summary) **2005c:62188**
Ngongo, I. S. *see* **Boyarinov, R. N. et al., 2005k:62056**
Ostrovskiĭ, E. I. Exact asymptotics of Laplace integrals on nonsmooth functions. (Russian. Russian summary) **2005d:41041**
Paul, D. N. R. *see* **Zaman, M. R. et al., 2005h:62051**
Pistorius, Martijn R. On exit and ergodicity of the spectrally one-sided Lévy process reflected at its infimum. (English summary) **2005e:60104**
Polyakov, A. V. A nonlinear evolution equation for the mean occupation numbers in a Maslov probability space. (Russian. Russian summary) **2005f:81128**
Richards, Donald St. P. *see* **Ehm, Werner et al., 2005g:42012**
Roy, Manindra Kumar *see* **Zaman, M. R. et al., 2005h:62051**
Sakurai, Taka Numerical inversion for Laplace transforms of functions with discontinuities. (English summary) **2005a:60005**
Sarkar, Anish *see* **Bose, Arup et al., 2005i:62043**
Semeraro, Patrizia *see* **Lillo, Rosa E., 2005b:62215**
Sengupta, Arindam *see* **Bose, Arup et al., 2005i:62043**
Shepp, Larry A. *see* **Mallows, Colin, 2005m:60192**
Shortle, John F. Piecewise polynomial approximations for heavy-tailed distributions in queueing analysis. (English summary)
Skoug, David (*with* Storvick, David) A survey of results involving transforms and convolutions in function space. (English summary) **2005c:42009**
Sobolev, L. G. Identification of experimental trends by L_χ-transform methods. (Russian. Russian summary) **2005e:93160**
Stefanov, Valeri T. Distribution of the amount of genetic material from a chromosomal segment surviving to the following generation. (English summary) **2005a:62240**
Storvick, David *see* **Skoug, David, 2005c:42009**
Strawderman, Robert L. Computing tail probabilities by numerical Fourier inversion: the absolutely continuous case. (English summary) **2005d:62025**
Sun, Xiaoqian *see* **Cai, Xiao-Qiang et al., 2005b:90055**
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Vignat, Christophe (*with* Hero, A. O., III; Costa, Jose A.) About closedness by convolution of the Tsallis maximizers. (English summary) **2005c:82008**
Vinogradov, V. V. On the power-variance family of probability distributions. (English summary) **2005c:60017**
— Errata: "On the power-variance family of probability distributions" [Comm. Statist. Theory Methods **33** (2004), no. 5, 1007–1029; MR2054855 (2005c:60017)].
Volkmer, Hans *see* **Hamedani, G. G. et al., 2005f:39070**
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Ahmad, Ibrahim A. *see* **Kayid, Mohamed, 2005h:60054**
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— (*with* Dragomir, Sever Silvestru) Some further inequalities for univariate moments and some new ones for the covariance. (English summary) **2005c:60020**
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— (*with* Gao, Xiaoli; Hu, Taizhong; Pellerey, Franco) Characterizations of the hazard rate order and IFR aging notion. (English summary) **2005k:60057**
— (*with* Mercader, José-Angel; Ruiz Gómez, José Maria) Stochastic comparisons of generalized order statistics. (English summary) **2005i:60026**
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— Transportation of measure, Young diagrams and random matrices. (English summary) **2005i:60027**
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— (*with* Nazarov, Fedor L.) On convex bodies and log-concave probability measures with unconditional basis. **2005k:60058**
Bretagnolle, Jean Sur l'inégalité de concentration de Doeblin-Lévy, Rogozin-Kesten. (English summary) [On the Doeblin-Lévy, Rogozin-Kesten concentration inequality] **2005i:60029**
Bukszár, József Hypermultitrees and sharp Bonferroni inequalities. (English summary) **2005b:60039**
Cohen, Joel E. (*with* Kemperman, Johannes H. B.; Zbăganu, Gheorghiță) Elementary inequalities that involve two nonnegative vectors or functions. (English summary) **2005m:60034**
Csiszár, Villő (*with* Móri, Tamás F.) The convexity method of proving moment-type inequalities. (English summary) **2005g:60032**
Dahmani, Abdelnasser (*with* Ait Saidi, Ahmed; Kassa, R.) Exponential bounds in stochastic approximation procedures with α-mixing errors in data. (English summary) **2005m:60035**
Danielak, Katarzyna (*with* Rychlik, Tomasz) Sharp bounds for expectations of spacings from DDA and DFRA families. (English summary) **2005a:60026**
— (*with* Rychlik, Tomasz) Sharp bounds for expectations of spacings from decreasing density and failure rate families. (English summary) **2005i:60030**
Dedecker, Jérôme (*with* Prieur, Clémentine) Coupling for τ-dependent sequences and applications. (English summary) **2005k:60059**
De La Peña, Victor H. (*with* Klass, Michael J.; Lai, Tze Leung) Self-normalized processes: exponential inequalities, moment bounds and iterated logarithm laws. (English summary) **2005g:60035**
— (*with* Yang, Ming[2]) Bounding the first passage time on an average. (English summary) **2005c:60024**
Deng, Ping Ji (*with* Wang, Feng Yu) Transportation-cost inequalities on path space. (Chinese. English and Chinese summaries) **2005b:60040**
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Ding, Ying[2] (*with* Zhang, Xin Sheng) Some stochastic orders of Kotz-type distributions. (English summary) **2005h:60052**
Djellout, H. (*with* Guillin, Arnaud; Wu, Li Ming[1]) Transportation cost-information inequalities and applications to random dynamical systems and diffusions. (English summary) **2005i:60031**
Dragomir, Sever Silvestru *see* **Barnett, N. S., 2005c:60020** *and* **2005e:60040**
Dress, Andreas W. M. (*with* Lokot, T.; Pustyl'nikov, L. D.) A new scale-invariant geometry on L_1 spaces. (English summary) **2005g:60033**
Dutta, M. *see* **Sharma, R. et al., 2005m:60040**
Fei, Lin A probability inequality and its applications in selecting best normal means. (English summary) **2005b:60041**
Fill, James Allen (*with* Machida, Motoya) Realizable monotonicity and inverse probability transform. (English summary) (*see* **2005a:62016**)
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Gao, Xiaoli *see* **Belzunce, Félix et al., 2005k:60057**
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— (*with* Marchal, Philippe) On the concentration of measure phenomenon for stable and related random vectors. (English summary) **2005f:60046**
Hu, Taizhong (*with* Müller, Alfred[2]; Scarsini, Marco) Some counterexamples in positive dependence. (English summary) **2005g:60034**

— (*with* Zhuang, Weiwei) Likelihood ratio ordering of the inspection paradox. (English summary) **2005h:60053**
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Ko, Mi Hwa (*with* Kim, Tae-Sung[1]; Lin, Zheng Yan) The Hájeck-Rènyi inequality for the AANA random variables and its applications. (English summary) **2005k:60062**
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Li, Bo-de (*with* Li, Xiao Hu) New partial orderings of life distributions with respect to the residual life function. (English and Chinese summaries)
Li, Xiao Hu (*with* Wang, She Jun) Some closure properties of the location independent riskier order. (English and Chinese summaries) **2005h:60056**
— (*with* Zuo, Ming J.) Preservation of stochastic orders for random minima and maxima, with applications. (English summary) **2005b:60044**
— (*with* Shaked, Moshe) The observed total time on test and the observed excess wealth. (English summary) **2005h:60057**
— (*with* Yam, Richard C. M.) Reversed preservation properties of some negative aging conceptions and stochastic orders. (English summary) **2005k:60064**
— *see also* **Li, Bo-de**
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— (*with* Quesada Molina, José Juan; Rodríguez Lallena, José Antonio; Úbeda Flores, Manuel) Best-possible bounds on sets of bivariate distribution functions. (English summary) **2005k:60065**
Novak, S. Yu. On self-normalized sums of random variables and the Student's statistic. (Russian. Russian summary) **2005m:60038**
Oleszkiewicz, Krzysztof On a nonsymmetric version of the Khinchine-Kahane inequality. (English summary) **2005f:60049**
Oluyede, Broderick O. On local dependence and stochastic inequalities with applications to contingency tables. (English summary) **2005a:60029**
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Ren, Yao Feng On the ratio inequalities for locally square integrable martingales. (English and Chinese summaries) **2005b:60045**
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Richards, Donald St. P. Algebraic methods toward higher-order probability inequalities. II. (English summary) **2005d:60034**
Rio, Emmanuel Une inégalité de Bennett pour les maxima de processus empiriques. (English and French summaries) [A Bennett-type inequality for maxima of empirical processes] **2005e:60047**
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— *see also* **Djellout, H. et al., 2005i:60031**
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— (*with* Shaked, Moshe) Failure profiles of coherent systems. (English summary) **2005e:90023**
Benjamini, Itai (*with* Kalai, Gil; Schramm, Oded) First passage percolation has sublinear distance variance. (English summary) **2005b:60251**
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Bueno, Vanderlei Costa Minimal standby redundancy allocation in a k-out-of-n:F system of dependent components. (English summary) **2005j:90016**
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— (*with* Pacheco, António) A note on the ageing character of the run length of Markov-type quality-control schemes. **2005k:60230**
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Campana, Antonella Dependency of insurance risks and the Burr distribution. (English summary)
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Furuichi, Shigeru *see* **Yanagi, Kenjiro et al.**, **2005f:47048**
Furuta, Takayuki Parametric extensions of Shannon inequality and its reverse one in Hilbert space operators. (English summary) **2005b:47036**
Gadidov, Anda Sectorial convergence of U-statistics. (English summary) **2005j:60057**
Garrido, José *see* **Cai, Jun**, **2005d:60022**
Geluk, Jaap Asymptotics in the symmetrization inequality. (English summary) **2005h:60042**
Ghoussoub, Nassif *see* **Agueh, M. et al.**, **2005c:82050**
(Giné, Evarist) *see* **Stochastic inequalities and applications**, **2005b:60005**
Goovaerts, Marc J. (*with* Kaas, Rob; Dhaene, Jan; Tang, Qi He) Some new classes of consistent risk measures. (English summary) **2005b:91142**
Gordienko, Evgueni Stability estimates of generalized geometric sums and their applications. (English summary) **2005e:60098**
Götze, Friedrich (*with* Zaitsev, Andrei Yu.) Approximation of convolutions by accompanying laws without centering. (English and Russian summaries) **2005k:60018**
Griffin, Byron L. (*with* Ladde, G. S.) Qualitative properties of stochastic iterative processes under random structural perturbations. (English summary) **2005f:60089**
Hamedani, G. G. *see* **Asadi, Majid et al.**, **2005b:94014**
He, Fangyi *see* **Hu, Taizhong et al.**, **2005g:60137**
Hörfelt, Per Geometric bounds on certain sublinear functionals of geometric Brownian motion. (English summary) **2005b:60215**
Hou, Zhen Ting *see* **Zhang, Han Jun et al.**, **2005b:60201**
(Houdré, Christian) *see* **Stochastic inequalities and applications**, **2005b:60005**
Hu, Taizhong (*with* Zhu, Zegang) Stochastic comparisons of order statistics from two samples. (English summary) **2005a:62123**
— (*with* He, Fangyi; Khaledi, Baha-Eldin) Characterizations of some aging notions by means of the dispersion-type or dilation-type variability orders. (English and Chinese summaries) **2005g:60137**
— (*with* Ma, Min; Nanda, Asok K.) Characterizations of generalized ageing classes by the excess lifetime. (English summary) **2005h:60262**
Hu, Yueyun *see* **Csáki, Endre**, **2005f:60092**
Hürlimann, Werner The algebra of cash flows: theory and application. **2005a:62224**
Husain, Shamshad (*with* Khan, M. Firdosh; Salahuddin Ayouby) Strongly nonlinear mixed random variational inequality. (English summary)
Jagers, Peter (*with* Rösler, Uwe) Stochastic fixed points for the maximum. (English summary) **2005k:60273**
Joe, Harry Stochastic orderings in random utility models. (English summary) **2005c:91046**
Johnson, Oliver A conditional entropy power inequality for dependent variables. (English summary)
Jorswieck, Eduard A. *see* **Boche, Holger**, **2005j:60093**
Kaas, Rob *see* **Goovaerts, Marc J. et al.**, **2005b:91142**
Kalai, Gil *see* **Benjamini, Itai et al.**, **2005b:60251**
Kang, Dian Tong Some properties on DMRL ordering. (English and Chinese summaries) **2005h:62279**
— On closure properties of NBU(2) class of life distributions. (English summary)
Kang, Xiaosong *see* **Agueh, M. et al.**, **2005c:82050**
Kelbert, M. Ya. (*with* Rachev, Svetlozar T.; Sukhov, Yu. M.) The maximum of a tree-indexed random process, with applications. (English summary) **2005d:60083**
Khaledi, Baha-Eldin *see* **Hu, Taizhong et al.**, **2005g:60137**
Khan, M. Firdosh *see* **Husain, Shamshad et al.**
Kim, Tae-Sung[1] (*with* Ko, Mi Hwa; Lee, Il-Hyun) On the strong law for asymptotically almost negatively associated random variables. (English summary) **2005i:60048**
Kleiber, Christian (*with* Krämer, Walter) Efficiency, equity, and generalized Lorenz dominance. (English summary) **2005f:91045**
Ko, Mi Hwa *see* **Kim, Tae-Sung[1] et al.**, **2005i:60048**
Kolassa, John E. *see* **Cohen, Arthur et al.**, **2005k:62151**
Kolesnikov, A. V. Convexity inequalities and nonlinear transformations of measures. (Russian) **2005i:28033**
Konstantinidis, D. G. (*with* Tang, Qi He; Tsitsiashvili, G. Sh.) Two-sided bounds for ruin probability under constant interest force. **2005e:62017**
Kowalczyk, Teresa (*with* Niewiadomska-Bugaj, M.) A new grade measure of monotone multivariate separability. (English summary) (*see* **2005a:62016**)
Kozachenko, Yu. V. (*with* Fedoryanich, T. V.) A criterion for testing hypotheses on the covariance function of Gaussian stationary process. (Ukrainian. Ukrainian summary) **2005i:60075**
Krakowiak, Wiesław Remarks about the Dugué problem. (English summary) **2005f:60038**
Krämer, Walter *see* **Kleiber, Christian**, **2005f:91045**
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Kuriyama, Ken *see* **Yanagi, Kenjiro et al.**, **2005f:47048**
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Landriault, David *see* **Cossette, Hélène et al.**, **2005i:60144**
Latała, Rafał Some estimates of norms of random matrices. (English summary) **2005i:15041**
Lauprete, Geoffrey J. *see* **Bertsimas, Dimitris et al.**, **2005a:91052**
Ledoux, Michel A remark on hypercontractivity and tail inequalities for the largest eigenvalues of random matrices. (English summary) **2005f:15027**
Lee, Il-Hyun *see* **Kim, Tae-Sung[1] et al.**, **2005i:60048**
Lee, Sangyeol *see* **Cha, Ji Hwan et al.**, **2005e:62138**
Li, Haijun On the dependence structure of a system of components with a multivariate shot-noise hazard rate process. (English summary) **2005a:60140**
— *see also* **Cai, Jun**, **2005k:60150**
Li, Ming Ming (*with* Cheng, Shi Xue) The application of discrete stochastic order to compound binomial ruin model. (Chinese. English and Chinese summaries)
Li, Xiao Hu A new interpretation of NBUE property of life distribution with some applications. (English and Chinese summaries) **2005e:62018**
— (*with* Qiu, Guo-xin; Ling, Ling[1]) A simple nonparametric test for right spread order. (English and Chinese summaries)
— A new test procedure for new better than used in increasing convex ordering. (English summary) **2005j:62098**
— (*with* Zuo, Ming J.) Stochastic comparison of residual life and inactivity time at a random time. (English summary) **2005c:62185**
Li, Yulin Closure of NBU(2) class under the formation of parallel systems. (English summary) **2005a:62218**
Liinev, Jan *see* **Vanmaele, Michèle et al.**, **2005k:91176**
Lillo, Rosa E. (*with* Semeraro, Patrizia) Stochastic bounds for discrete-time claim processes with correlated risks. (English summary) **2005b:62215**
Lin, Xiang *see* **Zhang, Han Jun et al.**, **2005b:60201**
Ling, Ling[1] *see* **Li, Xiao Hu et al.**
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Ma, Min *see* **Hu, Taizhong et al., 2005h:60262**
Maasoumi, Esfandiar *see* **Pasha, Einollah et al.**
Makowski, Armand M. *see* **Vanichpun, Sarut, 2005h:60288**
Manski, Charles F. Partial identification with missing data: concepts and findings. (English summary)
Marceau, Étienne *see* **Cossette, Hélène et al., 2005i:60144**
Marozzi, Marco An extension of the ordinary permutation solution of the two-sample location problem. (English and Italian summaries)
Martinez, Servet A. *see* **Collet, Pierre et al., 2005a:60111**
Marton, Katalin Measure concentration for Euclidean distance in the case of dependent random variables. (English summary) **2005f:60040**
Mashreghi, Javad (*with* Ransford, Thomas) Binomial sums and functions of exponential type. (English summary) **2005g:05010**
Maurey, Bernard *see* **Cordero-Erausquin, Dario et al., 2005g:60064**
Mauris, Gilles *see* **Dubois, Didier et al., 2005c:03099**
Meckes, Mark W. Concentration of norms and eigenvalues of random matrices. (English summary) **2005c:46109**
Mei, Qixiang *see* **Zhang, Han Jun et al., 2005b:60201**
Meilijson, Isaac Stochastic orders and stopping times in Brownian motion. **2005a:60130**
Mi, Jie *see* **Cha, Ji Hwan et al., 2005e:62138**
Miyoshi, Naoto A note on bounds and monotonicity of spatial stationary Cox shot noises. (English summary) **2005j:60102**
Morris, Ben (*with* Peres, Yuval) Evolving sets and mixing. (English summary) **2005k:60033**
de Muynck, Willem M. Interpretations of quantum mechanics, and interpretations of violation of Bell's inequality. (English summary) **2005e:81012**
Nanda, Asok K. *see* **Hu, Taizhong et al., 2005h:60262**
Navarro, Jorge *see* **Belzunce, Félix et al., 2005c:62009**
Nelsen, Roger B. Concordance and copulas: a survey. (English summary) (*see* **2005a:62016**)
Niewiadomska-Bugaj, M. *see* **Kowalczyk, Teresa, (2005a:62016)**
Novoselov, A. A. Risk aversion: a qualitative approach and quantitative estimates. (Russian. Russian summary) **2005g:91122**
(Nualart, David) *see* **Stochastic inequalities and applications, 2005b:60005**
Oh, Myongsik Inference for peakedness ordering between two distributions. (English summary)
Ortobelli Lozza, Sergio *see* **Rachev, Svetlozar T. et al., 2005g:62184**
Pacheco, António *see* **Cabral Morais, Manuel, 2005b:62203** *and* **2005k:60230**
Panchenko, Dmitriĭ Anatol'evich (*with* Talagrand, Michel) Bounds for diluted mean-fields spin glass models. (English summary) **2005j:82039**
Papadatos, N. (*with* Rychlik, Tomasz) Bounds on expectations of L-statistics from without replacement samples. (English summary) **2005j:62113**
Pasha, Einollah (*with* Zendedel, Ahmed; Maasoumi, Esfandiar) A multidimensional analysis of inequality in Iran. (English summary)
Peres, Yuval *see* **Morris, Ben, 2005k:60033**
Pogány, Tibor K. A new (probabilistic) proof of the Diaz-Metcalf and Pólya-Szegő inequalities and some of their consequences. (Ukrainian. Ukrainian summary) **2005k:26060**
Prade, Henri *see* **Dubois, Didier et al., 2005c:03099**
Qiu, Guo-xin *see* **Li, Xiao Hu et al.**
Rachev, Svetlozar T. (*with* Ortobelli Lozza, Sergio; Schwartz, Eduardo) The problem of optimal asset allocation with stable distributed returns. (English summary) **2005g:62184**
— *see also* **Kelbert, M. Ya. et al., 2005d:60083** *and* **Dostoglou, Stamatis**
Ransford, Thomas *see* **Mashreghi, Javad, 2005g:05010**
Raqab, Mohammad Z. *see* **Danielak, Katarzyna, 2005h:62139**
Regoli, Massimo *see* **Accardi, Luidgi, 2005d:81028**
Richards, Donald St. P. Total positivity properties of generalized hypergeometric functions of matrix argument. (English summary) **2005e:33008**
Rio, Emmanuel ★ Théorie asymptotique des processus aléatoires faiblement dépendants. (French) [Asymptotic theory of weakly dependent random processes] **2005k:60001**
Rolski, Tomasz A note on the increasing directionally concave monotonicity in queues. (English summary) **2005f:60205**
Rösler, Uwe *see* **Jagers, Peter, 2005k:60273**
Ruiz Gómez, José Maria *see* **Belzunce, Félix et al., 2005c:62009**
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Rychlik, Tomasz *see* **Papadatos, N., 2005j:62113**
Sacerdote, Laura (*with* Smith, Charles E.) Almost sure comparisons for first passage times of diffusion processes through boundaries. (English summary) **2005c:60106**
Sackrowitz, H. B. *see* **Cohen, Arthur et al., 2005k:62151**
Salahuddin Ayouby *see* **Husain, Shamshad et al.**
Samarov, Alexander *see* **Bertsimas, Dimitris et al., 2005a:91052**
Samuel-Cahn, Ester *see* **Assaf, David, 2005j:60085**
Schramm, Oded *see* **Benjamini, Itai et al., 2005b:60251**
Schwartz, Eduardo *see* **Rachev, Svetlozar T. et al., 2005g:62184**
Semeraro, Patrizia *see* **Lillo, Rosa E., 2005b:62215**
Seri, Raffaello (*with* Choirat, Christine) Stochastic boundedness in biological models. (English summary) (*see* **2005d:92001**)
Shaked, Moshe *see* **Belzunce, Félix, 2005e:90023**
Smith, Charles E. *see* **Sacerdote, Laura, 2005c:60106**
Soofi, Ehsan S. *see* **Asadi, Majid et al., 2005b:94014**
Spătaru, Aurel Precise asymptotics for a series of T. L. Lai. (English summary) **2005e:60101**
Spouge, John L. Path reversal, islands, and the gapped alignment of random sequences. (English summary) **2005k:62248**
Stoĭkova, L. S. Necessary and sufficient conditions for the existence of the extreme distributions F_5–F_7 in the problem of obtaining generalized Chebyshev inequalities. II. (Russian. English and Ukrainian summaries) **2005f:52019**
Sukhov, Yu. M. *see* **Kelbert, M. Ya. et al., 2005d:60083**
Sunklodas, J. On the law of large numbers for weakly dependent random variables. (English and Lithuanian summaries) **2005j:60048**
Szczesny, Wiesław Inequality measures for multivariate distributions. (*see* **2005e:62008**)
Talagrand, Michel On Guerra's broken replica-symmetry bound. (English and French summaries) **2005b:82046**
— *see also* **Panchenko, Dmitriĭ Anatol'evich, 2005j:82039**
Tang, Qi He *see* **Goovaerts, Marc J. et al., 2005b:91142** *and* **Konstantinidis, D. G. et al., 2005e:62017**
Tittmann, Peter *see* **Dohmen, Klaus, 2005i:05011**
Truffet, L. New bounds for timed event graphs inspired by stochastic majorization results. (English summary) **2005i:93060**
— Comparison and classification of linear systems over idempotent semirings inspired by total positivity. (English summary) **2005m:93081**
Tsitsiashvili, G. Sh. *see* **Konstantinidis, D. G. et al., 2005e:62017**
Vanichpun, Sarut (*with* Makowski, Armand M.) When are on-off sources SIS? Conditions and applications. (English summary) **2005h:60288**
Vanmaele, Michèle (*with* Deelstra, Griselda; Liinev, Jan) Approximation of stop-loss premiums involving sums of lognormals by conditioning on two variables. (English summary) **2005k:91176**
Villani, Cédric Trend to equilibrium for dissipative equations, functional inequalities and mass transportation. (English summary) **2005k:35249**
Wang, Yue Fen Hájeck-Rènyi-type inequalities for ρ^*-mixing sequences and their applications. (Chinese. English and Chinese summaries) **2005k:60104**
Weber, Michel Jean Georges Some examples of application of the metric entropy method. (English summary) **2005j:60081**
Xia, Aihua *see* **Chen, Louis H. Y., 2005d:60080**
Xiao, Hong Min Some properties of Laplace order with applications in related aging notions. (Chinese. English and Chinese summaries)
Yanagi, Kenjiro (*with* Kuriyama, Ken; Furuichi, Shigeru) Generalized Shannon inequalities based on Tsallis relative operator entropy. (English summary) **2005f:47048**
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Zendedel, Ahmed *see* **Pasha, Einollah et al.**
Zhang, Aijun *see* **Fang, Kai-Tai**
Zhang, Han Jun (*with* Mei, Qixiang; Lin, Xiang; Hou, Zhen Ting) Convergence property of standard transition functions. (English summary) **2005b:60201**
Zhou, Wen Hui (*with* Deng, Yong Lu) A queueing system with general operation and vacation times. (Chinese. English and Chinese summaries) **2005e:60225**
Zhou, Xian *see* **Cai, Xiao-Qiang, 2005m:90046**
Zhu, Zegang *see* **Hu, Taizhong, 2005a:62123**
Zuo, Ming J. *see* **Li, Xiao Hu, 2005c:62185**

Items listed otherwise than by author

Barcelona ★ Stochastic inequalities and applications. **2005b:60005**
Stochastic inequalities and applications ★ Stochastic inequalities and applications. **2005b:60005**

60E99 None of the above, but in this section

Balakrishnan, Narayanaswamy *see* **Chandrasekar, B., 2005f:60050**
Chandrasekar, B. (*with* Balakrishnan, Narayanaswamy) Property of bivariate Poisson distribution and its application to stochastic processes. (English summary) **2005f:60050**
Choi, Sang-Il On the limiting spectral distribution function of large dimensional random matrices. (English summary) **2005j:60041**
Dabrowski, André Robert (*with* Dehling, Herold G.) Conditional distribution of the H-coefficient in nonparametric unfolding models. (English summary) **2005k:60068**
Dehling, Herold G. *see* **Dabrowski, André Robert, 2005k:60068**
Luschgy, Harald (*with* Pagès, Gilles) Sharp asymptotics of the functional quantization problem for Gaussian processes. (English summary) **2005d:60036**
Nakayama, Toshiyuki Support theorem for mild solutions of SDE's in Hilbert spaces (English summary) **2005k:60069**
Orosz, Ágota (*with* Székelyhidi, László) Moment functions on polynomial hypergroups in several variables. (English summary) **2005j:60042**
Pagès, Gilles *see* **Luschgy, Harald, 2005d:60036**
Székelyhidi, László *see* **Orosz, Ágota, 2005j:60042**
Vinnishin, Ya. F. Distribution of a random continued fraction with Markov elements. (Ukrainian. English and Ukrainian summaries) **2005f:60051**
Xiao, Hong Min Some properties of Laplace order with applications in related aging notions. (Chinese. English and Chinese summaries)

Items with secondary classifications in 60E99

Aoshima, Makoto *see* **Mukhopadhyay, Nitis, 2005a:62045**
Dasgupta, Anirban[1] A unified method to sum a variety of infinite series, with applications. (English summary) **2005b:40005**
Duchon, Philippe (*with* Flajolet, Philippe; Louchard, Guy; Schaeffer, Gilles) Boltzmann samplers for the random generation of combinatorial structures. (English summary) **2005k:05030**
Flajolet, Philippe *see* **Duchon, Philippe et al., 2005k:05030**
Heyde, Christopher C. (*with* Leonenko, N. N.) Student processes. (English summary) **2005m:62161**
Kesseböhmer, Marc (*with* Zhu, Sanguo) Quantization dimension via quantization numbers. (English summary) **2005h:28023**
Krakowiak, Wiesław Remarks about the Dugué problem. (English summary) **2005f:60038**
Lachout, Petr On linear transformations of Wiener process. (English summary) **2005e:60081**
Lafuerza-Guillén, Bernardo (*with* Sempi, Carlo) Probabilistic norms and convergence of random variables. (English summary) **2005a:28009**
Leonenko, N. N. *see* **Heyde, Christopher C., 2005m:62161**
Linov, A. Ya. *see* **Zolotukhina, L. A., 2005f:62032**
Louchard, Guy *see* **Duchon, Philippe et al., 2005k:05030**

Mukhopadhyay, Nitis (*with* Aoshima, Makoto) Percentage points of the largest among student's t random variable. (English summary) **2005a:62045**
Pan, Jia Zhu (*with* Yu, Bosco W. T.; Pang, Wan-Kai) How does innovation's tail risk determine marginal tail risk of a stationary financial time series? (English summary) **2005h:62255**
Pang, Wan-Kai *see* **Pan, Jia Zhu et al., 2005h:62255**
Schaeffer, Gilles *see* **Duchon, Philippe et al., 2005k:05030**
Schuhmacher, Dominic Distance estimates for Poisson process approximations of dependent thinnings. (English summary) **2005j:60099**
Sempi, Carlo *see* **Lafuerza-Guillén, Bernardo, 2005a:28009**
Stoïkova, L. S. Necessary and sufficient conditions for the existence of the extreme distributions F_5–F_7 in the problem of obtaining generalized Chebyshev inequalities. II. (Russian. English and Ukrainian summaries) **2005f:52019**
Yu, Bosco W. T. *see* **Pan, Jia Zhu et al., 2005h:62255**
Zhu, Sanguo *see* **Kesseböhmer, Marc, 2005h:28023**
Zolotukhina, L. A. (*with* Linov, A. Ya.) Asymptotic properties of the matches number in pairing observations. (English summary) **2005f:62032**

60Fxx Limit theorems [see also 28Dxx, 60B12]

60F05 Central limit and other weak theorems

Baek, Jong Il *see* **Chung, Sung-Mo et al.**
Bai, Zhi-Dong (*with* Silverstein, Jack W.) CLT for linear spectral statistics of large-dimensional sample covariance matrices. (English summary) **2005b:60046**
Ball, Frank G. (*with* Neal, Peter) Poisson approximations for epidemics with two levels of mixing. (English summary) **2005a:60032**
Bally, Vlad The central limit theorem for a nonlinear algorithm based on quantization. (English summary) **2005b:60047**
Barakat, Haroon M. (*with* El-Shandidy, Mouhamed A.) On general asymptotic behaviour of order statistics with random index. (English summary) **2005m:60041**
Baryshnikov, Yu. M. (*with* Yukich, J. E.) Gaussian limits for random measures in geometric probability. (English summary) **2005j:60043**
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Beneš, Viktor *see* **Pawlas, Zbyněk, 2005g:60040**
Bening, V. E. (*with* Korolev, V. Yu.; Liu, Li Xin[2]) Asymptotic behavior of generalized risk processes. (English summary) **2005k:60070**
Berzin, Corinne (*with* León, José R.) Convergence in fractional models and applications. (English summary) **2005k:60071**
Bobkov, Sergei G. (*with* Koldobsky, Alexander) On the central limit property of convex bodies. (English summary) **2005j:60044**
Boldrighini, C. (*with* Minlos, Robert; Pellegrinotti, A.) Random walks in quenched i.i.d. space-time random environment are always a.s. diffusive. (English summary) **2005e:60048**
Borovskikh, Yu. V. (*with* Weber, N. C.) On the Edgeworth expansion for elementary polynomials based on trimmed samples. (English summary) **2005m:60042**
Bose, Arup *see* **Chatterjee, Sourav, 2005k:60072**
Boufoussi, Brahim (*with* N'zi, Modeste) Donsker type theorem in Besov spaces involving regularly varying functions. (English summary) **2005g:60037**
Bulinskiĭ, A. V. (*with* Shashkin, A. P.) Rates in the CLT for sums of dependent multiindexed random vectors. **2005i:60036**
Chatterjee, Sourav (*with* Bose, Arup) A new method for bounding rates of convergence of empirical spectral distributions. (English summary) **2005k:60072**
Chen, Jing (*with* Chen, Yu) A central limit theorem for sums of records of a special kind of distribution. (Chinese. English and Chinese summaries) **2005f:60053**
Chen, Louis H. Y. (*with* Shao, Qi-Man) Normal approximation under local dependence. (English summary) **2005f:60054**
Chen, Yu *see* **Chen, Jing, 2005f:60053**
Chistyakov, G. P. A new asymptotic expansion and asymptotically best constants in Lyapunov's theorem. I. (Russian. Russian summary) **2005b:60048**
— A new asymptotic expansion and asymptotically best constants in Lyapunov's theorem. II. (Russian. Russian summary) **2005b:60049**
— A new asymptotic expansion and asymptotically best constants in Lyapunov's theorem. III. (Russian. Russian summary) **2005b:60050**
— (*with* Götze, Friedrich) Limit distributions of Studentized means. (English summary) **2005f:60055**
Chung, Sung-Mo (*with* Park, Sung Tae; Baek, Jong Il) On the weak laws for weighted sums of dependent random variables. (English summary)
Chuprunov, A. N. (*with* Rusakov, O. V.) Convergence for step-line processes under summation of random indicators and models of market pricing. **2005h:60062**
Cordero, Minerva *see* **Sun, Shan, 2005k:60080**
Dao Quang Tuyen Central limit theorems for mixing arrays. (English summary) **2005h:60063**
Davydov, Yu. A. (*with* Nagaev, A. V.) On the role played by extreme summands when a sum of independent and identically distributed random vectors is asymptotically α-stable. (English summary) **2005b:60051**
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Fermanian, Jean-David (*with* Radulović, Dragan; Wegkamp, Marten H.) Weak convergence of empirical copula processes. (English summary) **2005i:60037**
Gabrielli, Davide (*with* Galves, Antonio; Guiol, Daniela) Fluctuations of the empirical entropies of a chain of infinite order. (English summary) **2005b:60052**
Galves, Antonio *see* **Gabrielli, Davide et al., 2005b:60052**
Gänssler, Peter (*with* Rost, Daniel) Smoothed empirical processes and the bootstrap. (English summary) **2005m:60043**
Gao, Zhicheng (*with* Wormald, Nicholas C.) Asymptotic normality determined by high moments, and submap counts of random maps. (English summary) **2005m:60044**
(Gnedenko, Boris Vladimirovich) *see* **Veretennikov, A. Yu., 2005i:60040**
Goldstein, Larry Mark Normal approximation for hierarchical structures. (English summary) **2005h:60064**
Gordin, Mikhail (*with* Holzmann, Hajo) The central limit theorem for stationary Markov chains under invariant splittings. (English summary) **2005d:60037**
— A remark on the martingale method for proving the central limit theorem for stationary sequences. (Russian. English and Russian summaries) **2005h:60065**
Götze, Friedrich *see* **Chistyakov, G. P., 2005f:60055**
Grin′, A. G. Refinements of the central limit theorem for sums of dependent random variables. (Russian. English summary) **2005h:60066**
Grübel, Rudolf (*with* Stefanoski, Nikolče) Mixed Poisson approximation of node depth distributions in random binary search trees. (English summary) **2005k:60073**
Guiol, Daniela *see* **Gabrielli, Davide et al., 2005b:60052**
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Gustavsson, Jonas Gaussian fluctuations of eigenvalues in the GUE. (English and French summaries) **2005k:60074**
Gut, Allan An extension of the Kolmogorov-Feller weak law of large numbers with an application to the St. Petersburg game. (English summary) **2005j:60045**
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Harel, Michel (*with* Elharfaoui, Echarif) La convergence faible des U-statistiques multivariées pour des processus non stationnaires. (English and French summaries) [Weak convergence of multivariate U-statistics for nonstationary processes] **2005a:60033**
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— (*with* Kim, Yun Kyong) Weak convergence and tightness for fuzzy random variables. (English summary) **2005f:60058**
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— *see also* **Nualart, David, 2005k:60077**
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del Barrio, Eustasio (*with* Giné, Evarist; Utzet, Frederic) Asymptotics for L_2 functionals of the empirical quantile process, with applications to tests of fit based on weighted Wasserstein distances. (English summary) **2005k:62135**
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— (*with* Bunimovich, Leonid A.; Hill, Theodore P.) One-dimensional dynamical systems and Benford's law. (English summary) **2005m:37017**
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Cacuci, Dan G. (*with* Ionescu-Bujor, Mihaela; Navon, Ionel Michael) ★ Sensitivity and uncertainty analysis. Vol. II.
Cao, Ricardo (*with* López-De-Ullibarri, Ignacio; Janssen, Paul; Veraverbeke, Noël) Presmoothed Kaplan-Meier and Nelson-Aalen estimators. (English summary) **2005m:62087**
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— (*with* Kaloshin, Vadim Yu.; Koralov, Leonid) A limit shape theorem for periodic stochastic dispersion. (English summary) **2005f:37111**
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— *see also* **del Barrio, Eustasio et al., 2005k:62135**
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— *see also* **Volodin, Andrei I. et al., 2005i:60017**
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— Sur la convergence faible des systèmes dynamiques échantillonnés. (English and French summaries) [Weak convergence of sampled dynamical systems] **2005f:60103**
Häggström, Olle On the central limit theorem for geometrically ergodic Markov chains. (English summary) **2005m:60155**
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Hamana, Yuji Limit theorems for the Wiener sausage [translation of Sūgaku **54** (2002), no. 2, 147–166; MR1911910 (2004e:60139)]. (*see* **2005j:00022**)
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Hopcraft, K. I. (*with* Jakeman, E.; Matthews, J. O.) Discrete scale-free distributions and associated limit theorems. (English summary)
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— (*with* Ko, Mi Hwa; Park, Dong Ho) Almost sure convergence for linear processes generated by positively dependent processes. (English summary) **2005b:60074**
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— (*with* Meerschaert, Mark M.; Panorska, Anna K.; Scheffler, Hans-Peter) Operator geometric stable laws. (English summary) **2005m:60097**
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Qiu, De Hua (*with* Gan, Shi Xin) Convergence of arrays of $\widetilde{\rho}$-mixing random variables. (Chinese. English and Chinese summaries) **2005j:60062**
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Timofte, Claudia Application of central limit theorems to thermal dispersion in periodic media. (English summary) **2005i:80009**
Tirozzi, Brunello *see* **Shcherbina, M., 2005i:82034** *and* **2005m:82072**
Tomkins, R. J. Relative stability of weighted maxima of bounded i.i.d. random variables. (English summary) **2005a:60080**
Toscani, Giuseppe *see* **Pulvirenti, A., (2005c:00016)**
Troubetzkoy, Serge *see* **Bruin, Henk et al., 2005a:37004**
Utev, Sergei *see* **Barbour, A. D., 2005h:60315**
Utzet, Frederic *see* **del Barrio, Eustasio et al., 2005k:62135**
Vaienti, Sandro *see* **Bruin, Henk et al., 2005a:37004** *and* **Haydn, Nicolai, 2005h:37016**
Valkanov, Rossen Functional central limit theorem approximations and the distribution of the Dickey-Fuller test with strongly heteroskedastic data. (English summary)
Vallois, Pierre *see* **Roynette, Bernard et al., 2005e:60187** *and* **Etienne, M. P., 2005i:60088**
Varjú, Tamás *see* **Szász, Domokos, 2005g:37074**
Vatutin, Vladimir A. (*with* Dyakonova, E. E.) Yaglom type limit theorem for branching processes in random environment. (English summary) **2005h:60313**
— *see also* **Geiger, Jochen et al., 2005d:60136**
Vellaisamy, P. Poisson approximation for (k_1, k_2)-events via the Stein-Chen method. (English summary) **2005k:62053**
Veraverbeke, Noël *see* **Cao, Ricardo et al., 2005m:62087**
Verbitskiĭ, E. A. *see* **Abadi, Miguel et al., 2005b:60129**
Volný, Dalibor *see* **El Machkouri, Mohamed, 2005g:60059**
Volodin, Andrei I. (*with* Giuliano Antonini, Rita; Hu, Tien Chung) A note on the rate of complete convergence for weighted sums of arrays of Banach space valued random elements. (English summary) **2005i:60017**
— *see also* **Rosalsky, Andrew, 2005a:60014**
Wade, Andrew R. *see* **Penrose, Mathew D., 2005e:60031**
Wang, Fang[1] (*with* Cheng, Shi Hong) Almost sure central limit theorems for U-statistics. (Chinese. English and Chinese summaries) **2005b:60079**
— (*with* Cheng, Shi Hong) Almost sure central limit theorems for heavily trimmed sums. (English summary) **2005m:60058**

Wang, Qi Ying (*with* Jing, Bing-Yi) Weighted bootstrap for U-statistics. (English summary) **2005h:62060**
— *see also* **Hall, Peter G., 2005e:62025**
Weber, Michel Jean Georges *see* **Giuliano Antonini, Rita, 2005h:60088**
Wefelmeyer, Wolfgang *see* **Schick, Anton, 2005g:62163**
Wierman, John C. *see* **Xiang, Pengfei, 2005a:60019**
Wilmer, Elizabeth L. A local limit theorem for a family of non-reversible Markov chains. (English summary) **2005a:60114**
Wood, Andrew T. A. *see* **Butler, Ronald W., 2005h:62181**
Woodroofe, Michael *see* **Wu, Wei Biao, 2005c:60037** *and* **Kim, Dong-Yun et al., 2005f:62163**
Wu, Wei Biao (*with* Woodroofe, Michael) Martingale approximations for sums of stationary processes. (English summary) **2005c:60037**
— (*with* Min, Wanli) On linear processes with dependent innovations. (English summary) **2005m:62176**
Wu, Yanhong *see* **Kim, Dong-Yun et al., 2005f:62163**
Xiang, Pengfei (*with* Wierman, John C.) Limit theory for the domination number of random class cover catch digraphs. (English summary) **2005a:60019**
Yan, Jia-An *see* **Ng, Kai W. et al., 2005j:60053**
Yang, Hailiang *see* **Ng, Kai W. et al., 2005j:60053**
Yang, Xiao Yun *see* **Dong, Zhi Shan, 2005g:60050**
Yasutomi, Kenji A dependence vanishing theorem for sequences generated by Weyl transformation. **2005g:11136**
Ycart, Bernard *see* **Bellalouna, Monia et al., 2005g:68204**
Yin, Gang George (*with* Zhang, Han Qin) Two-time-scale Markov chains and applications to quasi-birth-death queues. (English summary) **2005h:60235**
Yor, Marc *see* **Roynette, Bernard et al., 2005e:60187** *and* **Csáki, Endre et al., 2005f:60171**
Yoshida, Nakahiro Partial mixing and Edgeworth expansion. (English summary) **2005g:62035**
Zeitouni, Ofer *see* **Friedland, Shmuel et al., 2005g:15040** *and* **Mayer-Wolf, Eddy et al., 2005g:60165**
Zhang, Dong-Xia *see* **Liang, Han Ying et al., 2005h:60093**
Zhang, Han Qin *see* **Yin, Gang George, 2005h:60235**
Zhang, Li Xin[1] *see* **Hu, Fei Fang, 2005d:62169**
Zhang, Mei[1] Moderate deviation principles for the occupation time process of a super-Brownian motion with immigration. (Chinese. English and Chinese summaries) **2005m:60196**
Zhang, Xiao Min (*with* Li, Bo[7]) Asymptotic behavior of random walk in random environments. (Chinese. English and Chinese summaries) **2005b:60264**
Zhang, Yu Hui[2] Moments of the hitting time for single birth processes. (Chinese. English and Chinese summaries) **2005d:60121**
Zhu, Jinxia *see* **Li, Ze Hui et al., 2005m:62193**
Zweimüller, Roland S-unimodal Misiurewicz maps with flat critical points. (English summary) **2005e:37085**

60F10 Large deviations

Arcones, Miguel A. The large deviation principle for stochastic processes. I. (Russian summary) **2005e:60053**
— Large deviations of empirical processes. (English summary) **2005a:60035**
— The large deviation principle for stochastic processes. II. (Russian summary) **2005k:60081**
— The large deviation principle for certain series. (English summary) **2005h:60074**
Arimitsu, Naoko *see* **Arimitsu, Toshihico**
Arimitsu, Toshihico (*with* Arimitsu, Naoko) Harmonious representation of PDFs reflecting large deviations. (English summary)
Atar, Rami (*with* Shwartz, Adam; Dupuis, Paul) Explicit solution for a network control problem in the large deviation regime. (English summary) **2005g:60042**
Baek, Jong Il *see* **Choi, Yong-Kab et al., 2005g:60043**
Baltrūnas, Aleksandras (*with* Klüppelberg, Claudia) Subexponential distributions—large deviations with applications to insurance and queueing models. (English summary) **2005c:60028**
Bardet, Jean-Baptiste (*with* Ben Arous, Gérard) Spatio-temporal large deviations principle for coupled circle maps. (English summary) **2005e:60054**
Ben Arous, Gérard (*with* Sortais, Michel) Large deviations in the Langevin dynamics of a short-range spin glass. (English summary) **2005d:60039**
— *see also* **Bardet, Jean-Baptiste, 2005e:60054**
van den Berg, M. (*with* Bolthausen, Erwin; den Hollander, Frank) On the volume of the intersection of two Wiener sausages. (English summary) **2005j:60050**
Biggins, J. D. Large deviations for mixtures. (English summary) **2005k:60082**
Blinovskiĭ, V. M. The large-deviation principle for Poisson random variables and a Young diagram. (Russian. Russian summary) **2005h:60075**
Bobkov, Sergei G. Large deviations via transference plans. **2005b:60061**
— Concentration of normalized sums and a central limit theorem for noncorrelated random variables. (English summary) **2005i:60041**
Bolthausen, Erwin *see* **van den Berg, M. et al., 2005j:60050**
Bonin, Olivier Large deviation theorems for weighted compound Poisson sums. (English summary) **2005k:60083**
Borovkov, A. A. (*with* Boxma, Onno J.) Large deviation probabilities for random walks with heavy tails. (English summary) **2005c:60029**
Borovskikh, Yu. V. (*with* Weber, N. C.) Large deviations of U-statistics. I. (English and Lithuanian summaries) **2005e:60055**
— (*with* Weber, N. C.) Large deviations of U-statistics. II. (English and Lithuanian summaries) **2005j:60051**
Boxma, Onno J. *see* **Borovkov, A. A., 2005c:60029**
Budhiraja, Amarjit (*with* Dupuis, Paul) Large deviations for the empirical measures of reflecting Brownian motion and related constrained processes in $\mathbb{R}_+$. (English summary) **2005c:60030**
Castell, Fabienne Moderate deviations for diffusions in a random Gaussian shear flow drift. (English and French summaries) **2005b:60062**
Čepulėnas, S. On large deviations for additive vector-valued functions of a Markov Gaussian field. (Russian. English, Russian and Lithuanian summaries) **2005e:60056**
Cerrai, Sandra (*with* Röckner, Michael) Large deviations for stochastic reaction-diffusion systems with multiplicative noise and non-Lipschitz reaction term. (English summary) **2005b:60063**
— (*with* Röckner, Michael) Large deviations for invariant measures of stochastic reaction-diffusion systems with multiplicative noise and non-Lipschitz reaction term. (English and French summaries) **2005k:60084**
Chan, Hock Peng Summation test for gap penalties and strong law of the local alignment score. (English summary) **2005m:60048**
Chang, Chih-Chung (*with* Landim, Claudio; Lee, Tzong-Yow) Occupation time large deviations of two-dimensional symmetric simple exclusion process. (English summary) **2005a:60036**
Chen, Jinwen Large deviations for exchangeable observations with applications. (English summary) **2005m:60049**
Chen, Xia[1] (*with* Li, Wenbo V.; Rosen, Jay) Large deviations for local times of stable processes and stable random walks in 1 dimension. (English summary) **2005m:60050**
Chi, Zhiyi Large deviations for template matching between point processes. (English summary) **2005k:60085**
Chirina, A. V. Large deviations of some scale-parameter-free functions from a sample of a gamma distribution. (Russian. English and Russian summaries) **2005e:60057**
Choi, Yong-Kab (*with* Hwang, Kyo Shin; Moon, Hee Jin; Kim, Tae-Sung[1]; Baek, Jong Il) Limit theorems for partial sum processes of a Gaussian sequence. (English summary) **2005g:60043**
Clarke, Brenton R. (*with* Milne, Christopher J.) Small sample bias correction for Huber's proposal-2 scale M-estimator. (English summary)
Couronné, Olivier (*with* Messikh, Reda Jürg) Surface order large deviations for 2D FK-percolation and Potts models. (English summary) **2005e:60058**
Dieker, A. B. (*with* Mandjes, Michel) On asymptotically efficient simulation of large deviation probabilities. (English summary) **2005m:60051**
Donati-Martin, Catherine (*with* Rouault, Alain; Yor, Marc; Zani, M.) Large deviations for squares of Bessel and Ornstein-Uhlenbeck processes. (English summary) **2005b:60064**
Dong, Zhi Shan *see* **Yang, Xiao Yun, 2005h:60082**
Douc, Randal (*with* Guillin, Arnaud; Najim, J.) Moderate deviations for particle filtering. (English summary) **2005k:60086**
Duffy, Ken (*with* Sullivan, Wayne G.) Logarithmic asymptotics for unserved messages at a FIFO. (English summary) **2005g:60044**
— (*with* Rodgers-Lee, Mark) Some useful functions for functional large deviations. (English summary) **2005k:60087**
Dupuis, Paul (*with* Nuzman, Carl; Whiting, Phil) Large deviation asymptotics for occupancy problems. (English summary) **2005f:60066**
— *see also* **Budhiraja, Amarjit, 2005c:60030** *and* **Atar, Rami et al., 2005g:60042**
E, Wei-nan (*with* Ren, Weiqing; Vanden-Eijnden, Eric) Minimum action method for the study of rare events. (English summary) **2005f:60067**
Eichelsbacher, Peter (*with* Löwe, Matthias) Moderate deviations for the overlap parameter in the Hopfield model. (English summary) **2005i:60042**
Esaulova, Veronika Large deviations of L_1-error of empirical measures on partitions. (English summary) **2005h:60076**
Feng, Jin Large deviation for a stochastic Cahn-Hilliard equation. (English summary) **2005b:60065**
Feng, Wei[2] Large deviation bounds for a polling system with two queues and multiple servers. (English summary) **2005b:60066**
Gamboa, Fabrice (*with* Lozada-Chang, Li-Vang) Large deviations for random power moment problem. (English summary) **2005e:60059**
Garcia, Jorge An extension of the contraction principle. (English summary) **2005d:60040**
Guillin, Arnaud *see* **Douc, Randal et al., 2005k:60086**
Guionnet, Alice (*with* Zeitouni, Ofer) Addendum to: "Large deviations asymptotics for spherical integrals" [J. Funct. Anal. **188** (2002), no. 2, 461–515; MR1883414 (2003e:60055)]. (English summary) **2005g:60045**
Györfi, László Large deviations of Hellinger distance on partitions. (English summary) **2005i:60043**
den Hollander, Frank *see* **van den Berg, M. et al., 2005j:60050**
Hu, Yi-jun Large deviations for generalized compound Poisson risk models and its bankruptcy moments. (English summary) **2005e:60060**
Hwang, Kyo Shin *see* **Choi, Yong-Kab et al., 2005g:60043**
Janson, Svante Large deviations for sums of partly dependent random variables. (English summary) **2005e:60061**
Kim, Tae-Sung[1] *see* **Choi, Yong-Kab et al., 2005g:60043**
Klüppelberg, Claudia *see* **Baltrūnas, Aleksandras, 2005c:60028**
Korshunov, D. A. Large deviation probabilities for the maxima of sums of independent summands with a negative mean and a subexponential distribution. (Russian. Russian summary) **2005j:60052**
Kotani, Motoko An asymptotic of the large deviation for random walks on a crystal lattice (English summary) **2005h:60077**
Kozlov, A. M. On the probabilities of large deviations of the Shepp statistic. (Russian Russian summary) **2005d:60041**
— On large deviations for the Shepp statistic for a Gaussian walk. (Russian. Russian summary) **2005k:60088**
Küneth, T. Large deviations for random fields on $\mathbf{Z}^d$ with unbounded interaction. (English summary) **2005i:60044**
Kuusela, Mikko Large deviations of zeroes and fixed points of random maps with applications to equilibrium economics. **2005f:60068**
de La Fortelle, Arnaud The large-deviation principle for Markov chains with continuous time. (Russian. Russian summary) **2005h:60078**
Landim, Claudio *see* **Chang, Chih-Chung et al., 2005a:60036**
Lee, Tzong-Yow *see* **Chang, Chih-Chung et al., 2005a:60036**
Li, Li Na Large deviation for a density-dependent birth-death process on a countable state space. (Chinese. English and Chinese summaries) **2005f:60069**
Li, Shoumei *see* **Ogura, Yukio, (2005i:62007)**
Li, Wenbo V. *see* **Chen, Xia[1] et al., 2005m:60050**

Löwe, Matthias *see* **Eichelsbacher, Peter**, 2005i:60042
Lozada-Chang, Li-Vang *see* **Gamboa, Fabrice**, 2005e:60059
Macci, Claudio Large deviations for hitting times of some decreasing sets. (English summary) 2005f:60070
— Large deviations for Markov chains in a random scenery with compact support. (English summary) 2005c:60031
— (*with* Torrisi, Giovanni Luca) Asymptotic results for perturbed risk processes with delayed claims. (English summary) 2005e:60062
Majewski, Kurt Large deviation bounds for single class queueing networks and their calculation. (English summary) 2005h:60079
— Corrigendum: "Large deviations for multi-dimensional reflected fractional Brownian motion" [Stoch. Stoch. Rep. **75** (2003), no. 4, 233–257; MR1994908 (2004f:60058)]. 2005f:60071
Mandjes, Michel *see* **Dieker, A. B.**, 2005m:60051
Messikh, Reda Jürg *see* **Couronné, Olivier**, 2005e:60058
Milne, Christopher J. *see* **Clarke, Brenton R.**
Moon, Hee Jin *see* **Choi, Yong-Kab et al.**, 2005g:60043
Najim, J. *see* **Douc, Randal et al.**, 2005k:60086
Ng, Kai W. (*with* Tang, Qi He; Yan, Jia-An; Yang, Hailiang) Precise large deviations for sums of random variables with consistently varying tails. (English summary) 2005j:60053
Nuzman, Carl *see* **Dupuis, Paul et al.**, 2005f:60066
Ogura, Yukio (*with* Li, Shoumei) On limit theorems for random fuzzy sets including large deviation principles. (*see* 2005i:62007)
Pardoux, Étienne (*with* Zeitouni, Ofer) Quenched large deviations for one dimensional nonlinear filtering. (English summary) 2005k:60089
Pukhal'skiĭ, A. A. On some degenerate large deviation problems. (English summary) 2005i:60045
Rassoul-Agha, Firas Large deviations for random walks in a mixing random environment and other (non-Markov) random walks. (English summary) 2005b:60067
Ren, Weiqing *see* **E, Wei-nan et al.**, 2005f:60067
Röckner, Michael *see* **Cerrai, Sandra**, 2005b:60063 *and* 2005k:60084
Rodgers-Lee, Mark *see* **Duffy, Ken**, 2005k:60087
Rosen, Jay *see* **Chen, Xia[1] et al.**, 2005m:60050
Rouault, Alain Large deviations for cascades and cascades of large deviations. (English summary) 2005h:60080
— *see also* **Donati-Martin, Catherine et al.**, 2005b:60064
Rozovskiĭ, L. V. Sums of independent random variables with finite variances—moderate deviations and nonuniform bounds in CLT. (Russian. English and Russian summaries) 2005j:60054
Schreiber, Tomasz Large deviation principle for generalized quantile functions. (English summary) 2005k:60090
Shao, Qi-Man (*with* Su, Chun; Wei, Gang[1]) Asymptotic distributions and Berry-Esseen bounds for sums of record values. (English summary) 2005i:60046
Shwartz, Adam (*with* Weiss, Alan) Large deviations with diminishing rates. (English summary) 2005m:60052
— *see also* **Atar, Rami et al.**, 2005g:60042
Skuchaĭte, A. Large deviations for sums of independent heavy-tailed random variables. (Russian. English, Russian and Lithuanian summaries) 2005j:60055
Sortais, Michel *see* **Ben Arous, Gérard**, 2005d:60039
Stolyar, A. L. Control of end-to-end delay tails in a multiclass network: LWDF discipline optimality. (English summary) 2005g:60046
Su, Chun *see* **Shao, Qi-Man et al.**, 2005i:60046
Sullivan, Wayne G. *see* **Duffy, Ken**, 2005g:60044
Tang, Qi He *see* **Ng, Kai W. et al.**, 2005j:60053
Torrisi, Giovanni Luca *see* **Macci, Claudio**, 2005e:60062
Vanden-Eijnden, Eric *see* **E, Wei-nan et al.**, 2005f:60067
Varadhan, Srinivasa R. S. Large deviations for the asymmetric simple exclusion process. (English summary) 2005f:60072
Wang, Wen Sheng[3] Studentized Hanson-Russo type increment theorem for all distributions in the attraction domain of a stable law. (Chinese. English and Chinese summaries) 2005h:60081
Weber, N. C. *see* **Borovskikh, Yu. V.**, 2005e:60055 *and* 2005j:60051
Wei, Gang[1] *see* **Shao, Qi-Man et al.**, 2005i:60046
Weiss, Alan *see* **Shwartz, Adam**, 2005m:60052
Whiting, Phil *see* **Dupuis, Paul et al.**, 2005f:60066
Wu, Li Ming[1] Large deviation principle for exchangeable sequences: necessary and sufficient condition. (English summary) 2005k:60091
Yan, Jia-An *see* **Ng, Kai W. et al.**, 2005j:60053
Yang, Hailiang *see* **Ng, Kai W. et al.**, 2005j:60053
Yang, Xiao Yun (*with* Dong, Zhi Shan) Large deviations for the moving average processes of NA and B-valued random variables. (Chinese. English and Chinese summaries) 2005h:60082
Yor, Marc *see* **Donati-Martin, Catherine et al.**, 2005b:60064
Zaigraev, A. Yu. Multivariate large deviations for sums of i.i.d. random vectors with compactly supported distribution. (English summary) 2005k:60092
Zani, M. *see* **Donati-Martin, Catherine et al.**, 2005b:60064
Zeitouni, Ofer *see* **Guionnet, Alice**, 2005g:60045 *and* **Pardoux, Étienne**, 2005k:60089
Zhang, Mei[1] Moderate deviation for super-Brownian motion with immigration. (English summary) 2005h:60083

Items with secondary classifications in 60F10

Abadi, Miguel (*with* Chazottes, J.-R.; Redig, Frank; Verbitskiĭ, E. A.) Exponential distribution for the occurrence of rare patterns in Gibbsian random fields. (English summary) 2005b:60129
Al'beverio, S. (*with* Liang, Song) Asymptotic expansions for the Laplace approximations of sums of Banach space-valued random variables. (English summary) 2005m:62044
Ali Khan, Tämur (*with* Neininger, Ralph) Probabilistic analysis for randomized game tree evaluation. (English summary) 2005g:68148
Baake, Ellen *see* **Georgii, Hans-Otto**, 2005a:60132
Baccelli, François (*with* Foss, S. G.) Moments and tails in monotone-separable stochastic networks. (English summary) 2005c:60122
Bakhtin, V. I. Cramér asymptotics in the averaging method for systems with fast hyperbolic motions. (Russian. Russian summary) 2005d:37056
Bass, Richard F. (*with* Chen, Xia[1]) Self-intersection local time: critical exponent, large deviations, and laws of the iterated logarithm. (English summary) 2005i:60149
Blank, Michael Ergodic properties of a simple deterministic traffic flow model. (English summary) 2005f:37188
Bobkov, Sergei G. (*with* Nazarov, Fedor L.) Large deviations of typical linear functionals on a convex body with unconditional basis. (English summary) 2005f:52013
Bodineau, Thierry (*with* Giacomin, Giambattista) From dynamic to static large deviations in boundary driven exclusion particle systems. (English summary) 2005b:60252
Bolthausen, Erwin (*with* Giacomin, Giambattista) Periodic copolymers at selective interfaces: a large deviations approach. (English summary) 2005m:60226
Borst, S. C. *see* **Zwart, Bert et al.**, 2005e:60226; 2005m:60076 *and* **Dębicki, Krzysztof et al.**, 2005h:60108
Breyer, Laird Arnault (*with* Piccioni, Mauro; Scarlatti, Sergio) Optimal scaling of MaLa for nonlinear regression. (English summary) 2005b:62141
Bucklew, James Antonio ★ Introduction to rare event simulation. 2005e:62001
Caithamer, Peter The stochastic wave equation driven by fractional Brownian noise and temporally correlated smooth noise. (English summary) 2005k:60192
Carmona, Philippe (*with* Hu, Yueyun) Fluctuation exponents and large deviations for directed polymers in a random environment. (English summary) 2005f:60218
Chang, Hyeong Soo On ordinal comparison of policies in Markov reward processes. (English summary) 2005e:93166
Chazottes, J.-R. *see* **Abadi, Miguel et al.**, 2005b:60129
Chen, Xia[1] (*with* Guillin, Arnaud) The functional moderate deviations for Harris recurrent Markov chains and applications. (English and French summaries) 2005c:60100
— Exponential asymptotics and law of the iterated logarithm for intersection local times of random walks. (English summary) 2005m:60174
— *see also* **Bass, Richard F.**, 2005i:60149
Chistyakov, G. P. (*with* Götze, Friedrich) On bounds for moderate deviations for Student's statistic. (Russian summary) 2005m:60092
Choi, Yong-Kab *see* **Moon, Hee Jin**, 2005b:60099
Climescu-Haulica, Adriana Large deviation analysis of space-time trellis codes. (English summary) (*see* 2005d:00014)
Cocco, Simona (*with* Monasson, Rémi) Restarts and exponential acceleration of the Davis-Putnam-Loveland-Logemann algorithm: a large deviation analysis of the generalized unit clause heuristic for random 3-SAT. (English summary) 2005j:68054
Comets, Francis (*with* Popov, S. Yu.) A note on quenched moderate deviations for Sinai's random walk in random environment. (English summary) 2005h:60305
Comman, Henri Capacities on C^*-algebras. (English summary) 2005g:46103
Coughlan, James M. (*with* Yuille, Alan L.) A large deviation theory analysis of Bayesian tree search. (English summary) 2005a:68192
Dębicki, Krzysztof (*with* Zwart, Bert; Borst, S. C.) The supremum of a Gaussian process over a random interval. (English summary) 2005h:60108
— *see also* **Zwart, Bert et al.**, 2005m:60076
DeBlassie, Richard Dante (*with* Smits, Robert) Brownian motion in twisted domains. (English summary) 2005m:60184
Deheuvels, Paul (*with* Martynov, Gennadiĭ V.) Karhunen-Loève expansions for weighted Wiener processes and Brownian bridges via Bessel functions. (English summary) 2005i:62074
Dembo, Amir (*with* Gantert, Nina; Zeitouni, Ofer) Large deviations for random walk in random environment with holding times. (English summary) 2005i:60087
Denisov, Denis (*with* Foss, S. G.; Korshunov, D. A.) Tail asymptotics for the supremum of a random walk when the mean is not finite. (English summary) 2005d:60073
Derrida, Bernard *see* **Enaud, C.**, 2005e:82076
Dolgopyat, Dmitry (*with* Kaloshin, Vadim Yu.; Koralov, Leonid) Sample path properties of the stochastic flows. (English summary) 2005a:60057
E, Wei-nan (*with* Ren, Weiqing; Vanden-Eijnden, Eric) Energy landscapes and rare events. (English summary) 2005b:60006
Eckhoff, Michael Precise asymptotics of small eigenvalues of reversible diffusions in the metastable regime. (English summary) 2005k:60252
Eichelsbacher, Peter (*with* Löwe, Matthias) Moderate deviations for a class of mean-field models. (English summary) 2005f:82008
Einmahl, Uwe (*with* Kuelbs, James) Moderate deviation probabilities for open convex sets: nonlogarithmic behavior. (English summary) 2005e:60010
Enaud, C. (*with* Derrida, Bernard) Large deviation functional of the weakly asymmetric exclusion process. (English summary) 2005e:82076
Engel, Andreas (*with* Monasson, Rémi; Hartmann, Alexander K.) On large deviation properties of Erdös-Rényi random graphs. (English summary) 2005g:82060
Engländer, János (*with* den Hollander, Frank) Survival asymptotics for branching Brownian motion in a Poissonian trap field. (English summary) 2005e:60186
— Large deviations for the growth rate of the support of supercritical super-Brownian motion. (English summary) 2005b:60224
Eun, Do Young (*with* Shroff, Ness B.) Network decomposition in the many-sources regime. (English summary) 2005f:60197
Fan, Zhaozhi Estimation problems for distributions with heavy tails. (English summary) 2005c:62059
Fatalov, V. R. Sharp asymptotics of probabilities of large deviations of the w^2 statistic in testing the symmetry hypothesis. (Russian. Russian summary) 2005k:62120
Fayolle, Guy (*with* de La Fortelle, Arnaud) Entropy and the principle of large deviations for discrete-time Markov chains. (Russian. Russian summary) 2005h:60214
Feng, Shui (*with* Grigorescu, Ilie; Quastel, Jeremy) Diffusive scaling limits of mutually interacting particle systems. (English summary) 2005f:60212
Fontbona, J. Uniqueness for a weak nonlinear evolution equation and large deviations for diffusing particles with electrostatic repulsion. (English summary) 2005c:60129
Foss, S. G. *see* **Baccelli, François**, 2005c:60122 *and* **Denisov, Denis et al.**, 2005d:60073
Franz, Silvio (*with* Toninelli, Fabio Lucio) A field-theoretical approach to the spin glass transition: models with long but finite interaction range. (English summary)

2005h:82060

Fuh, Cheng-Der (*with* Hu, Inchi) Efficient importance sampling for events of moderate deviations with applications. (English summary) **2005m:62073**

— On Bahadur efficiency of the maximum likelihood estimator in hidden Markov models. (English summary) **2005a:62186**

Ganesh, Ayalvadi (*with* O'Connell, Neil; Wischik, Damon) ★ Big queues. **2005a:60001**

Gantert, Nina *see* **Dembo, Amir et al., 2005i:60087**

Gao, Fu Qing (*with* Quastel, Jeremy) Moderate deviations from the hydrodynamic limit of the symmetric exclusion process. (English summary) **2005b:60256**

— *see also* **Liu, Yong Hong, 2005i:60153**

Georgii, Hans-Otto (*with* Baake, Ellen) Supercritical multitype branching processes: the ancestral types of typical individuals. (English summary) **2005a:60132**

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— *see also* **Chen, Xia[1], 2005c:60100**

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Gut, Allan (*with* Steinebach, Josef) Convergence rates and precise asymptotics for renewal counting processes and some first passage times. (English summary) **2005k:60280**

Hamana, Yuji Limit theorems for the Wiener sausage [translation of Sūgaku **54** (2002), no. 2, 147–166; MR1911910 (2004e:60139)]. (*see* **2005j:00022**)

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— (*with* Momčilović, Petar; Zwart, Bert) Reduced load equivalence under subexponentiality. (English summary) **2005f:60200**

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— Averaging principle for fully coupled dynamical systems and large deviations. (English summary) **2005f:37060**

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— (*with* Meyn, S. P.) Large deviations asymptotics and the spectral theory of multiplicatively regular Markov processes. (English summary) **2005k:60224**

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Liu, Yong Hong (*with* Gao, Fu Qing) Quasi sure local Strassen's law of the iterated logarithm for diffusion processes. (Chinese. English and Chinese summaries) **2005i:60153**

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— (*with* Kharinskiĭ, P. A.) Sharp asymptotics of small deviations in the L_2-norm for a class of Gaussian processes. (Russian. English and Russian summaries) **2005m:60073**

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— (*with* Borst, S. C.; Dębicki, Krzysztof) Subexponential asymptotics of hybrid fluid and ruin models. (English summary) **2005m:60076**
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— *see also* **Liang, Han Ying et al., 2005h:60093**
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Hu, Shu He Some new results for the strong law of large numbers. (Chinese. English and Chinese summaries) **2005a:60037**
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Huang, Wei[4] A nonclassical law of the iterated logarithm for functions of negatively associated random variables. (English summary) **2005b:60073**
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— (*with* Choi, Yong-Kab; Hwang, Kyo Shin) Moduli of continuity for l^∞-valued multi-parameter Gaussian processes. (English summary) **2005j:60059**
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Li, Deli (*with* Nguyen, Bao-Em; Rosalsky, Andrew) A supplement to precise asymptotics in the law of the iterated logarithm. (English summary) **2005m:60055**
Liang, Han Ying (*with* Zhang, Dong-Xia; Baek, Jong Il) Convergence of weighted sums for dependent random variables. (English summary) **2005h:60093**
— *see also* **Baek, Jong Il et al., 2005h:60085**
Lin, Michael *see* **Baxter, John Robert et al., 2005e:60064**
Lin, Zheng Yan The strong laws for the rescaled R/S statistics. (English summary) **2005e:60072**
— The law of the iterated logarithm for the rescaled R/S statistics without the second moment. (English summary) **2005c:60033**
— (*with* Hwang, Kyo Shin; Lee, Sungchul; Choi, Yong-Kab) Path properties of a d-dimensional Gaussian process. (English summary) **2005k:60098**
— *see also* **Kim, Younghoon et al., 2005d:60044**; **Kim, Tae-Sung[1] et al., 2005g:60053** *and* **Jiang, De Yuan, 2005h:60090**
Liu, Li[2] A strong law of large numbers for pairwise NQD random sequences. (Chinese. English and Chinese summaries) **2005f:60079**
Liu, Li Xin[2] (*with* Wu, Rong[1]) Laws of the logarithm and laws of the iterated logarithm for NA sequences with non-identical distributions. (Chinese. English and Chinese summaries) **2005g:60055**
— (*with* Mei, Chang Lin) A general law of the iterated logarithm for negatively associated random variables. **2005g:60054**
Liu, Wen[1] Asymptotic log-likelihood ratio and some studies on Chung's strong law of large numbers. (English summary) **2005i:60050**
— (*with* Yang, Wei Guo[1]) Some strong limit theorems for Markov chain fields on trees. (English summary) **2005i:60051**
— *see also* **Wang, Zhong Zhi[1], 2005e:60074** *and* **Yang, Wei Guo[1], 2005i:60056**
Lu, Chuan-rong *see* **Zhang, Li Xin[1] et al., 2005b:60081**
Lu, Feng Bin A remark for complete convergence property of triangular arrays. (Chinese. English and Chinese summaries) **2005m:60056**
Lucas, Alain (*with* Thilly, Emmanuel) Loi de type Chung en norme de Hölder pour les accroissements locaux du mouvement brownien. (English and French summaries) [Chung's law for local increments of Brownian motion in Hölder norm] **2005b:60076**
Ma, Yue[3] *see* **Yang, Wei Guo[1] et al.**
Majerek, Dariusz (*with* Nowak, Wioletta; Zięba, Wiesław) Conditional strong law of large number. (English summary)
Maller, Ross A. *see* **Kesten, Harry, 2005a:60038**
Mandrekar, V. *see* **Chobanyan, S. et al., 2005i:60047**
Martikaïnen, A. I. Asymptotic behavior of the maximum of sums of independent random variables along monotone blocks. (Russian. English and Russian summaries) **2005h:60094**
Mason, David M. A uniform functional law of the logarithm for the local empirical process. (English summary) **2005f:60080**
— *see also* **Giné, Evarist, 2005e:60069**
Matuła, Przemysław On some families of aqsi random variables and related strong law of large numbers. (English summary) **2005j:60061**
Mei, Chang Lin *see* **Liu, Li Xin[2], 2005g:60054**
Menneteau, Ludovic Some laws of the iterated logarithm in Hilbertian autoregressive models. (English summary) **2005k:60099**
Merlevède, Florence *see* **Dedecker, Jérôme**
Min, Aleksey *see* **Holzmann, Hajo et al., 2005j:60058**
Moon, Hee Jin (*with* Choi, Yong-Kab) A generalization of moduli of continuity for a Gaussian process. (English summary) **2005h:60095**
Nam, Eunwoo On the order of growth of convergent series of independent random variables. **2005h:60096**
Nguyen, Bao-Em *see* **Li, Deli et al., 2005m:60055**
Nguyen Van Quang *see* **Le Van Thanh, 2005m:60054**
Nili Sani, H. R. (*with* Bozorgnia, A.) On the laws of large numbers for dependent random variables. (English and Persian summaries) **2005k:60100**
— *see also* **Bingham, N. H., 2005e:60066**
Nowak, Wioletta *see* **Majerek, Dariusz et al.**
Olsen, James *see* **Baxter, John Robert et al., 2005e:60064**
Paganoni, Anna Maria (*with* Secchi, Piercesare) Interacting reinforced-urn systems. (English summary) **2005d:60045**
Park, Dong Ho *see* **Kim, Tae-Sung[1] et al., 2005b:60074**
Park, Soon Kyu *see* **Choi, Yong-Kab et al., 2005d:60043**
Peng, Liang (*with* Qi, Yongcheng) Chover-type laws of the iterated logarithm for weighted sums. (English summary) **2005b:60077**
Petrov, Valentin Vladimirovich On the growth of sums of nonnegative random variables. (Russian. English and Russian summaries) **2005h:60097**
Qi, Yongcheng *see* **Peng, Liang, 2005b:60077** *and* **Adler, André, 2005e:60063**
Qiu, De Hua (*with* Gan, Shi Xin) Complete convergence of weighted sums for arrays of rowwise NA random variables. (Chinese. English and Chinese summaries) **2005f:60081**
— (*with* Gan, Shi Xin) Convergence of arrays of $\tilde{\rho}$-mixing random variables. (Chinese. English and Chinese summaries) **2005j:60062**
Regazzini, Eugenio Laws of large numbers and related principles: preliminary notes. (Italian. English and Italian summaries) **2005m:60057**
Révész, Pál Tell me the values of a Wiener at integers, I tell you its local time. (English summary) **2005k:60101**
Riečan, Beloslav On the strong law of large numbers on some ordered structures. (English summary) **2005f:60082**
Rosalsky, Andrew *see* **Hu, Tien Chung et al., 2005b:60072**; **Klesov, O. Ĭ. et al., 2005j:60060** *and* **Li, Deli et al., 2005m:60055**
Rösler, Uwe *see* **Burton, Robert M. et al., 2005b:60069**
Roy, Ram Babu On random mappings and its limit distributions. (English summary)
Rychlik, Zdzisław (*with* Szuster, Konrad S.) Some remarks on the almost sure central limit theorem for independent random variables. (English summary) **2005g:60056**
Secchi, Piercesare *see* **Paganoni, Anna Maria, 2005d:60045**
Shao, Qi-Man How big is the uniform convergence interval of the strong law of large numbers? (English summary) **2005c:60034**
Shirikyan, Armen A version of the law of large numbers and applications. (English summary) **2005j:60063**
Shur, M. G. On the Lin condition in strong ratio limit theorems. (Russian. Russian summary) **2005i:60052**
Skorokhod, T. A. The convergence of infinite products of random matrices. (English summary) **2005d:60046**
Spătaru, Aurel Exact asymptotics in log log laws for random fields. (English summary) **2005i:60053**
Stadtmüller, Ulrich *see* **Lanzinger, Hartmut, 2005h:60091**
Su, Chun (*with* Tong, Tie Jun) Almost sure convergence of the general Jamison weighted sum of $\mathscr{B}$-valued random variables. (English summary) **2005b:60078**
— *see also* **Wang, Yue Bao et al., 2005e:60073**
Su, Kuo-Liang Strong limit theorems of Cesaro type means for arrays of orthogonal random elements with multi-dimensional indices in Banach spaces. (English summary) **2005a:60039**
Sung, Hwa Sang (*with* Choi, Yong-Kab) Limit behaviors for the increments of a d-dimensional Gaussian process. (English summary) **2005d:60047**
— (*with* Choi, Yong-Kab; Hwang, Kyo Shin) Moduli of continuity for a d-dimensional Gaussian process. (English summary) **2005k:60102**
Szabados, Tamás *see* **Székely, Balázs, 2005j:60064**
Székely, Balázs (*with* Szabados, Tamás) Strong approximation of continuous local martingales by simple random walks. (English summary) **2005j:60064**
Szuster, Konrad S. *see* **Rychlik, Zdzisław, 2005g:60056**
Szynal, Dominik *see* **Bieniek, Milena, 2005e:60065**
Taufer, E. *see* **Leonenko, N. N., 2005k:60097**
Thilly, Emmanuel *see* **Lucas, Alain, 2005b:60076**
Tomkins, R. J. Criteria for the almost sure stability of weighted maxima of bounded i.i.d. random variables. (English summary) **2005k:60103**
Tong, Tie Jun *see* **Su, Chun, 2005b:60078**
Volodin, Andrei I. *see* **Klesov, O. Ĭ. et al., 2005j:60060**
Wang, Fang[1] (*with* Cheng, Shi Hong) Almost sure central limit theorems for U-statistics. (Chinese. English and Chinese summaries) **2005b:60079**
— (*with* Cheng, Shi Hong) Almost sure central limit theorems for heavily trimmed sums. (English summary) **2005m:60058**
Wang, Jian Feng[1] (*with* Cai, Guang Hui) Precise asymptotics in some strong limit theorems for U-statistics. (Chinese. English and Chinese summaries) **2005i:60054**
— Notes on the complete convergence of negatively associated sequences with different distributions. (Chinese. English and Chinese summaries) **2005f:60083**
Wang, Jiang Feng *see* **Zhang, Li Xin[1], 2005k:60105**
Wang, Kang Kang *see* **Yang, Wei Guo[1]**
Wang, Wen Sheng[3] How big are the Csörgő-Révész increments of two-parameter Wiener processes? (English summary) **2005m:60059**
Wang, Yan Hua[1] *see* **He, Shu Yuan, 2005b:60071**
Wang, Yaohung *see* **Zhang, Li Xin[1] et al., 2005b:60081**
Wang, Yue Bao (*with* Yan, Jigao; Cheng, Feng Yang; Su, Chun) The strong law of large numbers and the law of the iterated logarithm for product sums of NA and AANA random variables. (English summary) **2005e:60073**
— (*with* Yang, Yang; Zhou, Hai Yang) Some limit theorems for processes of product sums generated by non-stationary positively dependent random variables. (English summary) **2005m:60060**
Wang, Yue Fen Hájeck-Rènyi-type inequalities for ρ^*-mixing sequences and their applications. (Chinese. English and Chinese summaries) **2005k:60104**
Wang, Zhong Zhi[1] (*with* Xu, Fu-xia) A strong limit theorem on generalized random selection for m-valued random sequences. (English summary) **2005a:60040**
— (*with* Yang, Wei Guo[1]) Some strong limit theorems for both nonhomogenous Markov chains of order two and their random transforms. (Chinese. English and Chinese summaries) **2005i:60055**
— (*with* Liu, Wen[1]) Some strong deviation theorems for random sum of discrete stochastic sequence. (English and Chinese summaries) **2005e:60074**
Weber, Michel Jean Georges A theorem related to Marcinkiewicz-Salem conjecture. (English summary) **2005b:60080**
— *see also* **Giuliano Antonini, Rita, 2005h:60088**
Wu, Rong[1] *see* **Liu, Li Xin[2], 2005g:60055**
Xu, Bing[1] *see* **Jin, Neng, 2005e:60071**
Xu, Fu-xia *see* **Wang, Zhong Zhi[1], 2005a:60040**
Yan, Jigao *see* **Wang, Yue Bao et al., 2005e:60073**
Yang, Wei Guo[1] (*with* Liu, Wen[1]) The asymptotic equipartition property for mth-order nonhomogeneous Markov information sources. (English summary) **2005i:60056**
— (*with* Wang, Kang Kang) Strong deviation theorem for a class of random variable sequences on product binomial distribution. (Chinese. English and Chinese summaries)
— (*with* Huang, Hui Lin; Ma, Yue[3]) Strong law of large numbers for Markov chain fields on an even-odd tree. (Chinese. English and Chinese summaries)
— *see also* **Liu, Wen[1], 2005i:60051** *and* **Wang, Zhong Zhi[1], 2005i:60055**
Yang, Wenquan Equivalent conditions for strong stability for α-mixing sequences. (English

and Chinese summaries) **2005g:60057**
Yang, Xiao Yun *see* **Dong, Zhi Shan**, **2005g:60050**
Yang, Yang *see* **Wang, Yue Bao et al.**, **2005m:60060**
Yasins'kiĭ, V. K. (*with* Antonyuk, S. V.) On the properties of the second moment of solutions of stochastic functional-differential equations with variable coefficients. (Ukrainian. Ukrainian summary) **2005i:60057**
Zangeneh, B. (*with* Farhadi, H.) On almost sure convergence of normalized partial sums. (English summary) **2005j:60065**
Zareei, H. *see* **Amini-Dehak, Mohammad et al.**, **2005g:60047**
Zhang, Dong-Xia *see* **Liang, Han Ying et al.**, **2005h:60093**
Zhang, Li Xin[1] (*with* Lu, Chuan-rong; Wang, Yaohung) On large increments and liminfs of a two-parameter Gaussian process. (English summary) **2005b:60081**
— Strong approximations of martingale vectors and their applications in Markov-chain adaptive designs. (English summary) **2005e:60075**
— (*with* Wang, Jiang Feng) A note on complete convergence of pairwise negatively quadrant dependent random sequences. (Chinese. English and Chinese summaries) **2005k:60105**
Zhang, Xiao Min A strong law of large numbers for random walk in time-random environment. (English and Chinese summaries) **2005c:60035**
Zhou, Hai Yang *see* **Wang, Yue Bao et al.**, **2005m:60060**
Zhou, Hong Xia A note on the strong stability for Jamison type weighted product sums of pairwise NQD series. (Chinese. English and Chinese summaries) **2005h:60098**
Zięba, Wiesław *see* **Majerek, Dariusz et al.**

Items with secondary classifications in 60F15

Andjel, E. (*with* Ferrari, Pablo Augusto; Siqueira, Adriano F.) Law of large numbers for the simple exclusion process. (English summary) **2005h:60292**
Assani, Idris Duality and the one-sided ergodic Hilbert transform. (English summary) **2005j:37008**
Baek, Jong Il *see* **Choi, Yong-Kab et al.**, **2005g:60043**
Bahadur, R. R. ★ R. R. Bahadur's lectures on the theory of estimation. **2005a:62008**
Bakhtin, V. I. (*with* Kifer, Yuri) Diffusion approximation for slow motion in fully coupled averaging. (English summary) **2005m:60177**
Balakrishnan, Narayanaswamy (*with* Stepanov, Aleksei Vasil'evich) A note on: "Asymptotic behaviour of a number of repeated records" [Statist. Probab. Lett. **35** (1997), no. 1, 49–58, MR1467708 (98e:60074)] by E. Khmaladze, M. Nadareishvili and A. Nikabadze. (English summary) **2005c:60069**
Bass, Richard F. (*with* Chen, Xia[1]) Self-intersection local time: critical exponent, large deviations, and laws of the iterated logarithm. (English summary) **2005i:60149**
Bellalouna, Monia (*with* Souissi, Salma; Ycart, Bernard) Average-case analysis for the probabilistic bin packing problem. (English summary) **2005g:68204**
Berlinet, Alain (*with* Brunel, Elodie) Cross-validated density estimates based on Kullback-Leibler information. (English summary) **2005d:62063**
Berthet, Philippe Inner rates of coverage of Strassen type sets by increments of the uniform empirical and quantile processes. (English summary) **2005k:60122**
Berti, Patrizia (*with* Pratelli, Luca; Rigo, Pietro) Limit theorems for a class of identically distributed random variables. (English summary) **2005i:60012**
Bhatt, Abhay G. (*with* Roy, Rahul) On a random directed spanning tree. (English summary) **2005b:60022**
Bobkov, Sergei G. Concentration of distributions of the weighted sums with Bernoullian coefficients. (English summary) **2005f:60045**
Boukhari, Fakhr eddine ★ Convergence presque sûre et propriétés métriques des moyennes ergodiques pondérées. (French. French summary) [Almost sure convergence and metric properties of weighted ergodic averages] **2005i:37006**
Brunel, Elodie *see* **Berlinet, Alain**, **2005d:62063**
Buldygin, Valerii V. (*with* Klesov, O. I.; Steinebach, Josef) On some properties of asymptotically quasi-inverse functions and their application. I. (Ukrainian. Ukrainian summary) **2005i:26005**
Cai, Guang Hui Complete convergence of moving average processes under negative associated assumptions. (Chinese summary) **2005e:62120**
Campanino, Massimo (*with* Ioffe, Dimitri; Velenik, Yvan) Ornstein-Zernike theory for finite range Ising models above T_c. (English summary) **2005b:82016**
Chan, Hock Peng Summation test for gap penalties and strong law of the local alignment score. (English summary) **2005m:60048**
Chen, Xia[1] (*with* Guillin, Arnaud) The functional moderate deviations for Harris recurrent Markov chains and applications. (English and French summaries) **2005c:60100**
— Exponential asymptotics and law of the iterated logarithm for intersection local times of random walks. (English summary) **2005m:60174**
— (*with* Li, Wenbo V.) Large and moderate deviations for intersection local times. (English summary) **2005m:60175**
— *see also* **Bass, Richard F.**, **2005i:60149**
Cheng, Feng Yang (*with* Wang, Yue Bao) A result on complete convergence for weighted sums of arrays of B-valued random variables. (Chinese. English and Chinese summaries) **2005h:60013**
— (*with* Wang, Yue Bao) Complete convergence for weighted sums of arrays of B-valued random variables. (Chinese. English and Chinese summaries) **2005h:60014**
Chistyakov, G. P. A new asymptotic expansion and asymptotically best constants in Lyapunov's theorem. I. (Russian. Russian summary) **2005b:60048**
— A new asymptotic expansion and asymptotically best constants in Lyapunov's theorem. II. (Russian. Russian summary) **2005b:60049**
— A new asymptotic expansion and asymptotically best constants in Lyapunov's theorem. III. (Russian. Russian summary) **2005b:60050**
Choe, Geon Ho (*with* Hamachi, Toshihiro; Nakada, Hitoshi) Mod 2 normal numbers and skew products. (English summary) **2005c:37009**
Choi, Yong-Kab (*with* Hwang, Kyo Shin; Moon, Hee Jin; Kim, Tae-Sung[1]; Baek, Jong Il) Limit theorems for partial sum processes of a Gaussian sequence. (English summary) **2005g:60043**
— *see also* **Moon, Hee Jin**, **2005b:60099**
Cohen, Guy (*with* Lin, Michael) Laws of large numbers with rates and the one-sided ergodic Hilbert transform. (English summary) **2005a:47014**
— (*with* Jones, Roger L.; Lin, Michael) On strong laws of large numbers with rates. (English summary) **2005j:47011**
Comets, Francis (*with* Zeitouni, Ofer) A law of large numbers for random walks in random mixing environments. (English summary) **2005i:60202**
Crimaldi, Irene On the behavior of the conditional expectations in Skorohod representation theorem. (English summary) **2005b:60010**
Csáki, Endre (*with* Shi, Zhan; Yor, Marc) Fractional Brownian motions as "higher-order" fractional derivatives of Brownian local times. (English summary) **2005f:60171**
— (*with* Földes, Antónia; Shi, Zhan) Our joint work with Miklós Csörgő. (English summary) **2005k:60248**
— (*with* Hu, Yueyun) On the ranked excursion heights of a Kiefer process. (English summary) **2005f:60092**
(Csörgő, Miklós) *see* **Csáki, Endre et al.**, **2005k:60248**
Cuny, Christophe On randomly weighted one-sided ergodic Hilbert transforms. (English summary) **2005m:47019**
— Addendum to: "On randomly weighted one-sided ergodic Hilbert transforms" [Ergodic Theory Dynam. Systems **25** (2005), no. 1, 89–99; MR2122913 (2005m:47019)]. **2005m:47020**
Dabo-Niang, Sophie (*with* Ferraty, Frédéric; Vieu, Philippe) Estimation du mode dans un espace vectoriel semi-normé. (English and French summaries) [Mode estimation in a semi-normed vector space] **2005h:62123**
Dai, Wen Asymptotics of the sample mean and sample covariance of long-range-dependent series. (English summary) **2005h:62055**
Deheuvels, Paul (*with* Mason, David M.) General asymptotic confidence bands based on kernel-type function estimators. (English summary) **2005k:62131**
Del Moral, Pierre (*with* Miclo, Laurent) On convergence of chains with occupational self-interactions. (English summary) **2005m:60154**
Demeter, Ciprian Almost everywhere convergence of series in L^1. (English summary) **2005m:28039**
Deng, Dian Liang Wittmann's law of iterated logarithm for tail sums of B-valued-random variables. (English summary) **2005f:60018**
Dermoune, Azzouz (*with* Filali, Siham) Diffusion with interactions between two types of particles and pressureless gas equations. (English and French summaries) **2005d:60152**
Devroye, Luc Universal asymptotics for random tries and PATRICIA trees. (English summary) **2005m:68044**
Dolgopyat, Dmitry Limit theorems for partially hyperbolic systems. (English summary) **2005k:37053**
Dudek, Dorota (*with* Zięba, Wiesław) On multivalued amarts. (English summary) **2005c:60047**
Ēleĭko, Ya. Ī. (*with* Zhernovoĭ, Yu. V.) Asymptotic properties of random evolutions constructed on the basis of solutions of systems of ordinary differential equations. (Ukrainian. English, Russian and Ukrainian summaries) **2005h:60266**
Fang, Yixin *see* **Zhao, Lin Cheng**, **2005c:62179**
Ferrari, Pablo Augusto *see* **Andjel, E. et al.**, **2005h:60292**
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Földes, Antónia *see* **Csáki, Endre et al.**, **2005k:60248**
Frolov, Andrei N. Limit theorems for increments of processes with independent increments. (Russian) **2005m:60101**
Fuchs, Michael On a problem of W. J. LeVeque concerning metric Diophantine approximation. II. (English summary) **2005f:11149**
Galambos, Janos (*with* Simonelli, Italo) ★ Products of random variables. **2005g:60005**
Gan, Shi Xin On the strong law of large numbers for non-independent B-valued random variables. (English summary) **2005h:60015**
Garnier, Josselin Scattering, spreading, and localization of an acoustic pulse by a random medium. (English summary) **2005d:60116**
Ghoudi, Kilani (*with* Rémillard, Bruno) Empirical processes based on pseudo-observations. II. The multivariate case. (English summary) **2005j:62110**
Giné, Evarist (*with* Koltchinskii, Vladimir; Wellner, Jon A.) Ratio limit theorems for empirical processes. (English summary) **2005k:60060**
— (*with* Koltchinskii, Vladimir; Zinn, Joel) Weighted uniform consistency of kernel density estimators. (English summary) **2005d:62067**
Girardin, Valerie (*with* Limnios, Nikolaos) Entropy rate and maximum entropy methods for countable semi-Markov chains. (English summary) **2005b:60233**
Girko, V. L. The strong circular law. Twenty years later. I. (English summary) **2005e:60077**
Goovaerts, Marc J. (*with* Kaas, Rob; Laeven, Roger J. A.; Tang, Qi He) A comonotonic image of independence for additive risk measures. (English summary) **2005h:91131**
Gradinaru, Mihai (*with* Nourdin, Ivan) Approximation at first and second order of m-order integrals of the fractional Brownian motion and of certain semimartingales. (English summary) **2005f:60126**
Guan, Li (*with* Li, Shoumei) Strong and weak laws of large numbers for weighted sums of fuzzy set-valued random variables. (*see* **2005i:62007**)
Guillin, Arnaud *see* **Chen, Xia**[1], **2005c:60100**
Guo, Ming Le A strong law of large numbers for Markov chains in Markovian environments. (Chinese. English and Chinese summaries) **2005a:60159**
Hamachi, Toshihiro *see* **Choe, Geon Ho et al.**, **2005c:37009**
Hu, Yi-jun Complete convergence theorems for L^p-mixingales. (English summary) **2005a:60064**
Hu, Yueyun *see* **Csáki, Endre**, **2005f:60092**
Huang, Wei[4] (*with* Zhang, Li Xin[1]; Wen, Ji Wei) Precise asymptotics in the Baum-Katz and Davis laws of large numbers of Cauchy's principal values related to local time. (Chinese. English and Chinese summaries) **2005m:60096**
Hwang, Kyo Shin *see* **Choi, Yong-Kab et al.**, **2005g:60043**
Ing, Ching-Kang Selecting optimal multistep predictors for autoregressive processes of unknown order. (English summary) **2005c:62172**
Inoue, Hiroshi[1] On laws of large numbers for exchangeable random sets. **2005j:60024**
Inoue, K. (*with* Kanagawa, Shuya) Strong approximation of reflecting Brownian motion using penalty method and its approximation. (*see* **2005i:00016**)
Ioffe, Dimitri *see* **Campanino, Massimo et al.**, **2005b:82016**
Jiang, Tiefeng The asymptotic distributions of the largest entries of sample correlation

matrices. (English summary) **2005b:60053**
— The limiting distributions of eigenvalues of sample correlation matrices. (English summary) **2005g:62105**
Jiménez, Raúl (*with* Yukich, J. E.) Statistical distances based on Euclidean graphs. (English summary) **2005h:62026**
Jones, Roger L. *see* **Cohen, Guy et al., 2005j:47011**
Kaas, Rob *see* **Goovaerts, Marc J. et al., 2005h:91131**
Kanagawa, Shuya *see* **Inoue, K., (2005i:00016)**
Kazaryan, K. S. The zero-one law for a complete orthonormal system. (English and French summaries)
(Khmaladze, Estate V.) *see* **Balakrishnan, Narayanaswamy, 2005c:60069**
Kifer, Yuri *see* **Bakhtin, V. I., 2005m:60177**
Kim, Hyun-Chull *see* **Ko, Mi Hwa et al., 2005i:60096**
Kim, Tae-Sung[1] *see* **Choi, Yong-Kab et al., 2005g:60043; Ko, Mi Hwa et al., 2005i:60096** *and* **2005k:60062**
Kirubarajan, T. *see* **Ng, William et al.**
Klesov, O. Ĭ. *see* **Buldygin, Valerii V. et al., 2005i:26005**
Ko, Mi Hwa (*with* Kim, Tae-Sung[1]; Kim, Hyun-Chull) Strong laws of large numbers for asymptotically quadrant independent random fields. (English summary) **2005i:60096**
— (*with* Kim, Tae-Sung[1]; Lin, Zheng Yan) The Hájeck-Rènyi inequality for the AANA random variables and its applications. (English summary) **2005k:60062**
Koltchinskii, Vladimir *see* **Giné, Evarist et al., 2005d:62067** *and* **2005k:60060**
Kristensen, Simon ★ Sur deux formes d'approximation. (English. French summary) [On two forms of approximation] **2005h:37014**
Laeven, Roger J. A. *see* **Goovaerts, Marc J. et al., 2005h:91131**
Larocque, Jean-René *see* **Ng, William et al.**
Le Gac, Barthélemy (*with* Móricz, Ferenc) A new two-parameter SLLN in noncommutative L_2-spaces in terms of bundle convergence. (English summary) **2005i:46073**
Li, Bo[7] *see* **Zhang, Xiao Min, 2005b:60264**
Li, Hui[8] *see* **Zhou, Yong[2], 2005f:62068**
Li, Shoumei *see* **Guan, Li, (2005i:62007)**
Li, Wenbo V. *see* **Chen, Xia[1], 2005m:60175**
Li, Yun Xia[2] (*with* Zhang, Li Xin[1]) Complete moment convergence of moving-average processes under dependence assumptions. (English summary) **2005k:60144**
Limnios, Nikolaos *see* **Girardin, Valerie, 2005b:60233**
Lin, Michael *see* **Cohen, Guy et al., 2005a:47014** *and* **2005j:47011**
Lin, Zheng Yan The large increments of a multifractional Brownian motion. (English summary) **2005i:60070**
— *see also* **Wang, Wen Sheng[3], 2005d:60049** *and* **Ko, Mi Hwa et al., 2005k:60062**
Lipton, Robert Homogenization theory and the assessment of extreme field values in composites with random microstructure. (English summary) **2005k:35021**
Liu, Dong Hai (*with* Miao, Bai Qi) Strong convergence of the recursive M-estimation. (Chinese. English and Chinese summaries) **2005d:62095**
Liu, Li[2] Growth and value distribution of bi-random Dirichlet series in the half-plane. (Chinese. English and Chinese summaries) **2005e:60037**
Liu, Wen[1] *see* **Yang, Wei Guo[1], 2005i:60143**
Llorente, José G. Probabilistic approaches in analysis. (Catalan)
Lu, Chuan-rong The invariance principle for linear processes generated by a negatively associated sequence and its applications. (English summary) **2005a:60043**
Manstavičius, Eugenijus Iterated logarithm laws and the cycle lengths of a random permutation. (English summary) **2005i:60020**
Martikaïnen, A. I. An almost sure central limit theorem without logarithmic summation. (Russian. English and Russian summaries) **2005j:60046**
Mason, David M. *see* **Deheuvels, Paul, 2005k:62131**
Mathew, George Limit points of independent copies of sample maxima. (English summary) **2005k:60163**
Mexia, João Tiago (*with* Real, Pedro Corte) Compact hypothesis and extremal set estimators. (English summary) **2005b:62089**
Miao, Bai Qi *see* **Liu, Dong Hai, 2005d:62095**
Miclo, Laurent *see* **Del Moral, Pierre, 2005m:60154**
Mokkadem, Abdelkader (*with* Pelletier, Mariane) The compact law of the iterated logarithm for multivariate stochastic approximation algorithms. (English summary) **2005k:62184**
Molina Fernández, Manuel (*with* Mota, Manuel; Ramos, Alfonso) Limit behaviour for a supercritical bisexual Galton-Watson branching process with population-size-dependent mating. (English summary) **2005c:60111**
Møller, Thomas Hedging equity-linked life insurance contracts. (English summary)
Moon, Hee Jin (*with* Choi, Yong-Kab) Sharp strong limit theorems on the increments of a Gaussian process. (English summary) **2005b:60099**
— *see also* **Choi, Yong-Kab et al., 2005g:60043**
Móricz, Ferenc *see* **Le Gac, Barthélemy, 2005i:46073**
Mota, Manuel *see* **Molina Fernández, Manuel et al., 2005c:60111**
Mourid, Tahar Processus autorégressifs hilbertiens à coefficients aléatoires. (English and French summaries) [Hilbertian autoregressive processes with stochastic coefficients]
(Nadareishvili, M.) *see* **Balakrishnan, Narayanaswamy, 2005c:60069**
Nakada, Hitoshi *see* **Choe, Geon Ho et al., 2005c:37009**
Neumeyer, Natalie A central limit theorem for two-sample U-processes. (English summary) **2005e:60051**
Ng, William (*with* Reilly, James P.; Kirubarajan, T.; Larocque, Jean-René) Wideband array signal processing using MCMC methods. (English summary)
(Nikabadze, A.) *see* **Balakrishnan, Narayanaswamy, 2005c:60069**
Nourdin, Ivan *see* **Gradinaru, Mihai, 2005f:60126**
Pelletier, Mariane *see* **Mokkadem, Abdelkader, 2005k:62184**
Pipiras, Vladas Wavelet-type expansion of the Rosenblatt process. (English summary) **2005i:60076**
Pratelli, Luca *see* **Berti, Patrizia et al., 2005i:60012**
Ramos, Alfonso *see* **Molina Fernández, Manuel et al., 2005c:60111**
Real, Pedro Corte *see* **Mexia, João Tiago, 2005h:62089**
Reilly, James P. *see* **Ng, William et al.**
Reitzner, Matthias Random polytopes and the Efron-Stein jackknife inequality. (English summary) **2005b:60026**
Rémillard, Bruno *see* **Ghoudi, Kilani, 2005j:62110**
Rigo, Pietro *see* **Berti, Patrizia et al., 2005i:60012**
Rio, Emmanuel ★ Théorie asymptotique des processus aléatoires faiblement dépendants. (French) [Asymptotic theory of weakly dependent random processes] **2005k:60001**
— Une inégalité de Bennett pour les maxima de processus empiriques. (English and French summaries) [A Bennett-type inequality for maxima of empirical processes] **2005e:60047**
Rosalsky, Andrew (*with* Volodin, Andrei I.) On the weak limiting behavior of almost surely convergent row sums from infinite arrays of rowwise independent random elements in Banach spaces. (English summary) **2005a:60014**
— (*with* Taylor, Robert Lee) Some strong and weak limit theorems for weighted sums of i.i.d. Banach space valued random elements with slowly varying weights. (English summary) **2005k:60021**
Roy, Rahul *see* **Bhatt, Abhay G., 2005b:60022**
Samur, Jorge D. A regularity condition and a limit theorem for Harris ergodic Markov chains. (English summary) **2005b:60179**
Schmuland, Byron (*with* Sun, Wei[3]) A central limit theorem and law of the iterated logarithm for a random field with exponential decay of correlations. (English summary) **2005f:60122**
Shao, Qi-Man (*with* Su, Chun; Wei, Gang[1]) Asymptotic distributions and Berry-Esseen bounds for sums of record values. (English summary) **2005i:60046**
Shat·skikh, S. Ya. Some properties of logarithmic derivatives of elliptically contoured measures. (Russian. English and Russian summaries) **2005h:28031**
Shen, Lian[3] On ballistic diffusions in random environment. (English and French summaries) **2005d:60130**
Shi, Zhan *see* **Csáki, Endre et al., 2005f:60171** *and* **2005k:60248**
Simonelli, Italo *see* **Galambos, Janos, 2005g:60005**
Siqueira, Adriano F. *see* **Andjel, E. et al., 2005h:60292**
Souissi, Salma *see* **Bellalouna, Monia et al., 2005g:68204**
Spouge, John L. Path reversal, islands, and the gapped alignment of random sequences. (English summary) **2005k:62248**
Steinebach, Josef *see* **Buldygin, Valerii V. et al., 2005i:26005**
Stepanov, Aleksei Vasil'evich *see* **Balakrishnan, Narayanaswamy, 2005c:60069**
(Stigler, Stephen M.) *see* **Bahadur, R. R., 2005a:62008**
Su, Chun *see* **Shao, Qi-Man et al., 2005i:60046**
Sun, Wei[3] *see* **Schmuland, Byron, 2005f:60122**
Tang, Qi He *see* **Goovaerts, Marc J. et al., 2005h:91131**
Taylor, Robert Lee *see* **Rosalsky, Andrew, 2005k:60021**
Terán, Pedro A strong law of large numbers for random upper semicontinuous functions under exchangeability conditions. (English summary) **2005b:60027**
Vasilchuk, V. On the asymptotic distribution of the commutator and anticommutator of random matrices. (English summary) **2005b:82047**
Velenik, Yvan *see* **Campanino, Massimo et al., 2005b:82016**
Vieu, Philippe *see* **Dabo-Niang, Sophie et al., 2005h:62123**
Volodin, Andrei I. *see* **Rosalsky, Andrew, 2005a:60014**
Vu Viet Yen On convergence of multiparameter multivalued martingales. (English summary) **2005i:60086**
Wan, Cheng Gao A strong law of large numbers for Markov chains in Markovian environments. (Chinese. English and Chinese summaries) **2005f:60220**
Wang, Qi Ying On Darling-Erdős type theorems for self-normalized sums. (English summary) **2005j:60069**
Wang, Wen Sheng[3] Fractal nature of the functional laws of logarithm of a fractional Brownian motion. (English summary) **2005d:60062**
— (*with* Lin, Zheng Yan) Some functional limit theorems for the infinite series of OU processes. (English summary) **2005d:60049**
— Studentized Hanson-Russo type increment theorem for all distributions in the attraction domain of a stable law. (Chinese. English and Chinese summaries) **2005h:60081**
Wang, Yue Bao *see* **Cheng, Feng Yang, 2005h:60013** *and* **2005h:60014**
Weber, Michel Jean Georges Some examples of application of the metric entropy method. (English summary) **2005j:60081**
Wei, Gang[1] *see* **Shao, Qi-Man et al., 2005i:60046**
von Weizsäcker, Heinrich Can one drop L^1-boundedness in Komlós's subsequence theorem? **2005m:28008**
Wellner, Jon A. *see* **Giné, Evarist et al., 2005k:60060**
Wen, Ji Wei *see* **Huang, Wei[4] et al., 2005m:60096**
Wierman, John C. *see* **Xiang, Pengfei, 2005a:60019**
(Wong, Wing Hung) *see* **Bahadur, R. R., 2005a:62008**
Xiang, Pengfei (*with* Wierman, John C.) Limit theory for the domination number of random class cover catch digraphs. (English summary) **2005a:60019**
(Xu, Daming) *see* **Bahadur, R. R., 2005a:62008**
Xue, Liu Gen Berry-Esseen bound of an estimate of error variance in a semiparametric regression model. (Chinese. English and Chinese summaries) **2005k:62097**
Yang, Wei Guo[1] (*with* Liu, Wen[1]) Some limit theorems for countable Markov chains indexed by a homogeneous tree. (Chinese. English and Chinese summaries) **2005i:60143**
Yasutomi, Kenji A dependence vanishing theorem for sequences generated by Weyl transformation. **2005g:11136**
Ycart, Bernard *see* **Bellalouna, Monia et al., 2005g:68204**
Yor, Marc *see* **Csáki, Endre et al., 2005f:60171**
Yoshihara, Ken-ichi ★ Weakly dependent stochastic sequences and their applications. Vol. XIV. **2005h:60009**
Yu, Jinghu Covering the circle with random open sets. (English summary) **2005c:60014**
Yukich, J. E. *see* **Jiménez, Raúl, 2005h:62026**
Zeitouni, Ofer *see* **Comets, Francis, 2005i:60202**
Zhang, Li Xin[1] *see* **Li, Yun Xia[2], 2005k:60144** *and* **Huang, Wei[4] et al., 2005m:60096**
Zhang, Xiao Min (*with* Li, Bo[7]) Asymptotic behavior of random walk in random environments. (Chinese. English and Chinese summaries) **2005b:60264**
Zhao, Lin Cheng (*with* Fang, Yixin) Random weighting method for censored regression model. (English summary) **2005c:62179**

Zhao, Yue Xu Random limit theorems for exchangeable random variable sequences. (Chinese. English and Chinese summaries) **2005j:60073**
Zhernovoĭ, Yu. V. *see* **Ēleĭko, Ya. Ī.**, **2005h:60266**
Zhou, Yong[2] (*with* Li, Hui[8]) Law of the iterated logarithm of quantile density estimator for left truncated and right censored data. (English and Chinese summaries) **2005f:62068**
Zięba, Wiesław *see* **Dudek, Dorota**, **2005c:60047**
Zinn, Joel *see* **Giné, Evarist et al.**, **2005d:62067**

Items listed otherwise than by author

Bibliography:
Bahadur, Raghu Raj *see* **Bahadur, R. R.**, **2005a:62008**
Biography:
Bahadur, Raghu Raj *see* **Bahadur, R. R.**, **2005a:62008**

60F17 Functional limit theorems; invariance principles

Ait Ouahra, Mohamed Weak convergence to fractional Brownian motion in some anisotropic Besov space. (English summary) **2005f:60084**
Bass, Richard F. (*with* Rosen, Jay) An almost sure invariance principle for renormalized intersection local times. (English summary) **2005k:60106**
Becker-Kern, Peter (*with* Meerschaert, Mark M.; Scheffler, Hans-Peter) Limit theorem for continuous-time random walks with two time scales. (English summary) **2005f:60085**
Ben Hariz, Samir Uniform CLT for empirical process. (English summary) **2005j:60066**
Doukhan, Paul (*with* Lang, Gabriel; Surgailis, Donatas; Viano, Marie-Claude) Functional limit theorem for the empirical process of a class of Bernoulli shifts with long memory. (English summary) **2005m:60061**
Enriquez, Nathanaël A simple construction of the fractional Brownian motion. (English summary) **2005a:60041**
Ferger, Dietmar A functional law of the iterated logarithm for U-statistic type processes. (English summary) **2005b:60082**
Gallardo, Léonard (*with* Godefroy, Laurent) Un principe d'invariance relatif á un processus généralisant le mouvement brownien N-dimensionnel. (English and French summaries) [An invariance principle related to a process which generalizes N-dimensional Brownian motion] **2005c:60036**
Godefroy, Laurent *see* **Gallardo, Léonard**, **2005c:60036**
Herkenrath, Ulrich (*with* Iosifescu, Marius; Rudolph, Andreas) Random systems with complete connections and iterated function systems. (English summary) **2005g:60058**
Iglói, Endre Renormalization group of and convergence to the LISDLG process. (English summary) **2005h:60099**
Iosifescu, Marius *see* **Herkenrath, Ulrich et al.**, **2005g:60058**
Kim, Tae-Sung[1] (*with* Ko, Mi Hwa) On a random functional central limit theorem for a stationary multivariate linear process generated by linearly positive quadrant dependent random vectors. (English summary) **2005d:60048**
Klüppelberg, Claudia (*with* Kühn, Christoph) Fractional Brownian motion as a weak limit of Poisson shot noise processes—with applications to finance. (English summary) **2005h:60100**
Ko, Mi Hwa *see* **Kim, Tae-Sung[1]**, **2005d:60048**
Komorowski, Tomasz (*with* Widelski, P.) The existence of the effective diffusivity tensor for diffusions with incompressible mixing drifts. (English summary) **2005k:60107**
— (*with* Krupa, Grzegorz) The existence of a steady state for a perturbed symmetric random walk on a random lattice. (English summary) **2005j:60067**
— (*with* Widelski, P.) Computation of the effective diffusivity tensor for transport of a passive scalar in a turbulent incompressible flow. (English summary) **2005k:60108**
Korolev, V. Yu. (*with* Kudryavtsev, A. A.) Functional limit theorems for generalized risk processes. (Russian. Russian summary) **2005a:60042**
Korolyuk, Vladimir S. (*with* Limnios, Nikolaos) Lévy approximation of increment processes with Markov switching. (English summary) **2005h:60101**
— (*with* Limnios, Nikolaos) Compound Poisson approximation with drift for stochastic additive functionals with Markov and semi-Markov switching. (English summary) (*see* **2005f:60007**)
Krupa, Grzegorz A note on diffusions in compressible environments. (English summary) **2005i:60058**
— *see also* **Komorowski, Tomasz**, **2005j:60067**
Kudryavtsev, A. A. *see* **Korolev, V. Yu.**, **2005a:60042**
Kühn, Christoph *see* **Klüppelberg, Claudia**, **2005h:60100**
Kumagai, Takashi Homogenization on finitely ramified fractals. (English summary) **2005h:60102**
Lang, Gabriel *see* **Doukhan, Paul et al.**, **2005m:60061**
Limnios, Nikolaos A functional central limit theorem for the empirical estimator of a semi-Markov kernel. (English summary) **2005b:60083**
— *see also* **Korolyuk, Vladimir S.**, **2005h:60101** *and* (**2005f:60007**)
Lin, Zheng Yan *see* **Qiu, Jin[3]**, **2005b:60084** *and* **Wang, Wen Sheng[3]**, **2005d:60049**
Lu, Chuan-rong The invariance principle for linear processes generated by a negatively associated sequence and its applications. (English summary) **2005a:60043**
Marinucci, Domenico (*with* Piccioni, Mauro) The empirical process on Gaussian spherical harmonics. (English summary) **2005f:60086**
— The empirical process for bivariate sequences with long memory. (English summary) **2005k:60109**
Meerschaert, Mark M. (*with* Scheffler, Hans-Peter) Limit theorems for continuous time random walks with slowly varying waiting times. (English summary) **2005k:60110**
— *see also* **Becker-Kern, Peter et al.**, **2005f:60085**
Morel, Bruno Weak convergence of summation processes in Besov spaces. (English summary) **2005j:60068**
Piccioni, Mauro *see* **Marinucci, Domenico**, **2005f:60086**
Poryvaĭ, D. V. The invariance principle for a class of dependent random fields. (Russian. Russian summary) **2005i:60059**
Pozdnyakov, Vladimir On the functional CLT for partial sums of truncated bounded from below random variables. (English summary) **2005i:60060**
Pyke, Ronald (*with* van Zwet, Willem R.) Weak convergence results for the Kakutani interval splitting procedure. (English summary) **2005a:60044**
Qiu, Jin[3] (*with* Lin, Zheng Yan) The functional central limit theorem for strong near-epoch dependent random variables. (English summary) **2005b:60084**
Račkauskas, Alfredas (*with* Suquet, Charles) Principe d'invariance hölderien pour des tableaux triangulaires de variables aléatoires. (English, French and Lithuanian summaries) [Hölderian invariance principle for triangular arrays of random variables] **2005f:60087**
— (*with* Suquet, Charles) Necessary and sufficient condition for the functional central limit theorem in Hölder spaces. (English summary) **2005b:60085**
Rempała, Grzegorz A. (*with* Wesołowski, Jacek) Approximation theorems for random permanents and associated stochastic processes. (English summary) **2005k:60111**
Rosen, Jay *see* **Bass, Richard F.**, **2005k:60106**
Rudolph, Andreas *see* **Herkenrath, Ulrich et al.**, **2005g:60058**
Scheffler, Hans-Peter *see* **Becker-Kern, Peter et al.**, **2005f:60085** *and* **Meerschaert, Mark M.**, **2005k:60110**
Silvestrov, Dmitrii S. (*with* Teugels, Józef L.) Limit theorems for mixed max-sum processes with renewal stopping. (English summary) **2005i:60061**
Stettner, Lukasz Risk-sensitive portfolio optimization with completely and partially observed factors. (English summary) **2005f:60088**
Suquet, Charles *see* **Račkauskas, Alfredas**, **2005b:60085** *and* **2005f:60087**
Surgailis, Donatas *see* **Doukhan, Paul et al.**, **2005m:60061**
Teugels, Józef L. *see* **Silvestrov, Dmitrii S.**, **2005i:60061**
Viano, Marie-Claude *see* **Doukhan, Paul et al.**, **2005m:60061**
Wang, Qi Ying On Darling-Erdős type theorems for self-normalized sums. (English summary) **2005j:60069**
Wang, Wen Sheng[3] (*with* Lin, Zheng Yan) Some functional limit theorems for the infinite series of OU processes. (English summary) **2005d:60049**
Wentzell, Alexander D. Asymptotic expansions in limit theorems for stochastic processes. III. (English summary) **2005b:60086**
Wesołowski, Jacek *see* **Rempała, Grzegorz A.**, **2005k:60111**
Widelski, P. *see* **Komorowski, Tomasz**, **2005k:60107** *and* **2005k:60108**
Woodroofe, Michael *see* **Wu, Wei Biao**, **2005c:60037**
Wu, Wei Biao (*with* Woodroofe, Michael) Martingale approximations for sums of stationary processes. (English summary) **2005c:60037**
van Zwet, Willem R. *see* **Pyke, Ronald**, **2005a:60044**

Items with secondary classifications in 60F17

Afanas′ev, V. I. (*with* Geiger, Jochen; Kersting, Götz; Vatutin, Vladimir A.) Criticality for branching processes in random environment. (English summary) **2005k:60267**
Aldous, David J. (*with* Miermont, Grégory; Pitman, Jim) Brownian bridge asymptotics for random p-mappings. (English summary) **2005b:60014**
— (*with* Miermont, Grégory; Pitman, Jim) The exploration process of inhomogeneous continuum random trees, and an extension of Jeulin's local time identity. (English summary) **2005f:60023**
Antunes, Nelson (*with* Nunes, Cláudia; Pacheco, António) Functionals of Markovian branching D-BMAPs. (English summary) **2005m:60203**
Arkashov, N. S. (*with* Borisov, I. S.) Gaussian approximation of partial sums processes of moving averages. (Russian. Russian summary) **2005m:62155**
Ata, Barış (*with* Kumar, Sunil[1]) Heavy traffic analysis of open processing networks with complete resource pooling: asymptotic optimality of discrete review policies. (English summary) **2005k:60283**
Aue, Alexander Strong approximation for RCA(1) time series with applications. (English summary) **2005f:62134**
Berkes, István (*with* Horváth, Lajos; Kokoszka, P. S.) Probabilistic and statistical properties of GARCH processes. (English summary) **2005k:62199**
Berthet, Philippe Inner rates of coverage of Strassen type sets by increments of the uniform empirical and quantile processes. (English summary) **2005k:60122**
Betz, Volker (*with* Spohn, Herbert) A central limit theorem for Gibbs measures relative to Brownian motion. (English summary) **2005k:60260**
Birkner, Matthias (*with* Geiger, Jochen; Kersting, Götz) Branching processes in random environment—a view on critical and subcritical cases. (English summary) (*see* **2005i:00006**)
Borisov, I. S. *see* **Arkashov, N. S.**, **2005m:62155**
Breyer, Laird Arnault (*with* Piccioni, Mauro; Scarlatti, Sergio) Optimal scaling of MaLa for nonlinear regression. (English summary) **2005b:62141**
Chani, A. S. Discrete stochastic semigroups and associated difference equations with the random coefficients. (English summary) **2005d:60010**
Chen, Xia[1] (*with* Guillin, Arnaud) The functional moderate deviations for Harris recurrent Markov chains and applications. (English and French summaries) **2005c:60100**
Chuprunov, A. N. (*with* Rusakov, O. V.) Convergence for step-line processes under summation of random indicators and models of market pricing. **2005h:60062**
Cox, J. Theodore (*with* Perkins, Edwin A.) An application of the voter model–super-Brownian motion invariance principle. (English and French summaries) **2005b:60254**
Csáki, Endre (*with* Földes, Antónia; Shi, Zhan) Our joint work with Miklós Csörgő. (English summary) **2005k:60248**
— (*with* Hu, Yueyun) Invariance principles for ranked excursion lengths and heights. (English summary) **2005f:60076**
Csörgő, Miklós (*with* Norvaiša, R.) Weighted invariance principle for Banach space-valued random variables. (English and Lithuanian summaries) **2005k:60019**
— *see also* **Csáki, Endre et al.**, **2005k:60248**
Deheuvels, Paul (*with* Mason, David M.) General asymptotic confidence bands based on kernel-type function estimators. (English summary) **2005k:62131**
Duffy, Ken (*with* Sullivan, Wayne G.) Logarithmic asymptotics for unserved messages at a FIFO. (English summary) **2005g:60044**
— (*with* Rodgers-Lee, Mark) Some useful functions for functional large deviations. (English summary) **2005k:60087**
Dyakonova, E. E. (*with* Geiger, Jochen; Vatutin, Vladimir A.) On the survival probability and a functional limit theorem for branching processes in random environment. (English summary) **2005i:60201**
Eberlein, Ernst (*with* v. Hammerstein, Ernst August) Generalized hyperbolic and inverse Gaussian distributions: limiting cases and approximation of processes. (English

summary) **2005g:60073**

Etienne, M. P. (*with* Vallois, Pierre) Approximation of the distribution of the supremum of a centered random walk. Application to the local score. (English summary) **2005i:60088**

Ferger, Dietmar A two-dimensional Cramér-von Mises test for the two-sample problem with dispersion alternatives. (English summary) **2005j:62097**

Fermanian, Jean-David (*with* Radulović, Dragan; Wegkamp, Marten H.) Weak convergence of empirical copula processes. (English summary) **2005i:60037**

Földes, Antónia *see* **Csáki, Endre et al., 2005k:60248**

Gänssler, Peter (*with* Rost, Daniel) Smoothed empirical processes and the bootstrap. (English summary) **2005m:60043**

Geiger, Jochen *see* **Dyakonova, E. E. et al., 2005i:60201**; **Afanas′ev, V. I. et al., 2005k:60267** *and* **Birkner, Matthias et al., (2005i:00006)**

Guillin, Arnaud *see* **Chen, Xia[1], 2005c:60100**

Guillotin-Plantard, Nadine (*with* Schneider, Dominique) Limit theorems for sampled dynamical systems. (English summary) **2005a:37005**

Gut, Allan (*with* Steinebach, Josef) EWMA charts for detecting a change-point in the drift of a stochastic process. (English summary) **2005m:62096**

v. Hammerstein, Ernst August *see* **Eberlein, Ernst, 2005g:60073**

Holzmann, Hajo (*with* Koch, Susanne; Min, Aleksey) Almost sure limit theorems for U-statistics. (English summary) **2005j:60058**

Horváth, Lajos *see* **Berkes, István et al., 2005k:62199**

Hu, Yueyun *see* **Csáki, Endre, 2005f:60076**

Hult, Henrik (*with* Lindskog, Filip) Extremal behavior of regularly varying stochastic processes. (English summary) **2005j:60104**

Hušková, Marie Permutation principle and bootstrap in change point analysis. (English summary) (*see* **2005g:60006**)

— (*with* Picek, Jan) Some remarks on permutation type tests in linear models. (English summary) **2005h:62135**

— Weak invariance principles for regression rank statistics. (English summary) **2005d:62087**

Jacod, Jean The Euler scheme for Lévy driven stochastic differential equations: limit theorems. (English summary) **2005f:65013**

Jagers, Peter (*with* Sagitov, Serik) Convergence to the coalescent in populations of substantially varying size. (English summary) **2005d:60134**

Jankowski, Hanna *see* **Quastel, Jeremy et al., 2005a:60034**

Janson, Svante Functional limit theorems for multitype branching processes and generalized Pólya urns. (English summary) **2005a:60134**

— Asymptotic degree distribution in random recursive trees. (English summary) **2005j:05084**

Jeganathan, P. Convergence of functionals of sums of r.v.s to local times of fractional stable motions. (English summary) **2005d:60038**

Jelenković, Predrag R. (*with* Mandelbaum, Avishai; Momčilović, Petar) Heavy traffic limits for queues with many deterministic servers. (English summary) **2005k:60286**

Katori, Makoto (*with* Tanemura, Hideki) Functional central limit theorems for vicious walkers. (English summary) **2005b:82034**

Kersting, Götz *see* **Afanas′ev, V. I. et al., 2005k:60267** *and* **Birkner, Matthias et al., (2005i:00006)**

Koch, Susanne *see* **Holzmann, Hajo et al., 2005j:60058**

Kokoszka, P. S. *see* **Berkes, István et al., 2005k:62199**

Kolomiets′, Yu. V. Averaging for systems of stochastic equations with random disturbances. (English summary) **2005j:60118**

Kondo, Masao *see* **Yamato, Hajime et al., 2005k:62073**

Korolyuk, Vladimir S. (*with* Limnios, Nikolaos) Diffusion approximation of evolutionary systems with equilibrium in asymptotic split phase space. (English summary) **2005m:60176**

Kumar, Sunil[1] *see* **Ata, Barış, 2005k:60283**

Łaukajtys, Weronika (*with* Słomiński, Leszek) Penalization methods for reflecting stochastic differential equations with jumps. (English summary) **2005j:60126**

Lei, Liangzhen (*with* Wu, Li Ming[1]) The exponential convergence of kernel density estimator in L^1 for φ-mixing processes. (English summary) **2005g:62073**

Limnios, Nikolaos *see* **Korolyuk, Vladimir S., 2005m:60176**

Lin, Zheng Yan The strong laws for the rescaled R/S statistics. (English summary) **2005e:60072**

Lindskog, Filip *see* **Hult, Henrik, 2005j:60104**

Ling, Shiqing (*with* McAleer, Michael) On adaptive estimation in nonstationary ARMA models with GARCH errors. (English summary) **2005d:62148**

— (*with* McAleer, Michael) Regresssion quantiles for unstable autoregressive models. (English summary) **2005h:62250**

Liu, Xueli (*with* Müller, Hans-Georg) Functional convex averaging and synchronization for time-warped random curves. (English summary) **2005d:62011**

Mallows, Colin (*with* Shepp, Larry A.) B-stability. (English summary) **2005m:60192**

Mandelbaum, Avishai *see* **Jelenković, Predrag R. et al., 2005k:60286**

Mason, David M. *see* **Deheuvels, Paul, 2005k:62131**

McAleer, Michael *see* **Ling, Shiqing, 2005d:62148** *and* **2005h:62250**

Melbourne, Ian (*with* Nicol, Matthew) Statistical limit laws for equivariant observations. (English summary) **2005e:37016**

Mendelson, Shahar (*with* Schechtman, Gideon) The shattering dimension of sets of linear functionals. (English summary) **2005f:46019**

Merlevède, Florence On the central limit theorem and its weak invariance principle for strongly mixing sequences with values in a Hilbert space via martingale approximation. (English summary) **2005h:60069**

Miermont, Grégory *see* **Aldous, David J. et al., 2005b:60014** *and* **2005f:60023**

Min, Aleksey *see* **Holzmann, Hajo et al., 2005j:60058**

Momčilović, Petar *see* **Jelenković, Predrag R. et al., 2005k:60286**

Müller, Hans-Georg *see* **Liu, Xueli, 2005d:62011**

Newman, Charles M. (*with* Ravishankar, K.; Sun, Rongfeng) Convergence of coalescing nonsimple random walks to the Brownian web. (English summary) **2005k:60306**

Nicol, Matthew *see* **Melbourne, Ian, 2005e:37016**

Nielsen, Morten Ørregaard Local empirical spectral measure of multivariate processes with long range dependence. (English summary) **2005a:62205**

Norvaiša, R. *see* **Csörgő, Miklós, 2005k:60019**

Nunes, Cláudia *see* **Antunes, Nelson et al., 2005m:60203**

Olla, Stefano (*with* Siri, Paola) Homogenization of a bond diffusion in a locally ergodic random environment. (English summary) **2005a:60162**

Ould Haye, M. (*with* Philippe, Anne) A noncentral limit theorem for the empirical process of linear sequences with seasonal long memory. (English summary) **2005c:60027**

Pacheco, António *see* **Antunes, Nelson et al., 2005m:60203**

Peccati, Giovanni Weak convergence to ocone martingales: a remark. (English summary) **2005j:60089**

Peligrad, Magda (*with* Utev, Sergei) A new maximal inequality and invariance principle for stationary sequences. (English summary) **2005m:60047**

Pemantle, Robin A probabilistic model for the degree of the cancellation polynomial in Gosper's algorithm. (English summary) **2005i:65009**

Perkins, Edwin A. *see* **Cox, J. Theodore, 2005b:60254**

Philippe, Anne *see* **Ould Haye, M., 2005c:60027**

Piccioni, Mauro *see* **Breyer, Laird Arnault et al., 2005b:62141**

Picek, Jan *see* **Hušková, Marie, 2005h:62135**

Pitman, Jim *see* **Aldous, David J. et al., 2005b:60014** *and* **2005f:60023**

Prakasa Rao, B. L. S. Rio-type inequality for the expectation of products of random variables. **2005m:60039**

(Prokhorov, Yurĭ Vasil′evich) *see* **Skorokhod, Anatolii V., 2005i:60002**

Pukhal′skiĭ, A. A. (*with* Reiman, Martin I.) Correction: "The multiclass $GI/PH/N$ queue in the Halfin-Whitt regime" [Adv. in Appl. Probab. **32** (2000), no. 2, 564–595; MR1778580 (2002g:60155)]. **2005e:60218**

— Stochastic processes in random graphs. (English summary) **2005k:60036**

Quastel, Jeremy (*with* Jankowski, Hanna; Sheriff, John) Central limit theorem for zero-range processes. (English summary) **2005a:60034**

Račkauskas, Alfredas (*with* Suquet, Charles) Hölder norm test statistics for epidemic change. (English summary) **2005k:62129**

Radulović, Dragan *see* **Fermanian, Jean-David et al., 2005i:60037**

Ravishankar, K. *see* **Newman, Charles M. et al., 2005k:60306**

Reiman, Martin I. *see* **Pukhal′skiĭ, A. A., 2005e:60218**

Rodgers-Lee, Mark *see* **Duffy, Ken, 2005k:60087**

Rost, Daniel *see* **Gänssler, Peter, 2005m:60043**

Rusakov, O. V. *see* **Chuprunov, A. N., 2005h:60062**

Rychlik, Zdzisław (*with* Szuster, Konrad S.) Some remarks on the almost sure central limit theorem for independent random variables. (English summary) **2005g:60056**

Sagitov, Serik *see* **Jagers, Peter, 2005d:60134**

Samur, Jorge D. A regularity condition and a limit theorem for Harris ergodic Markov chains. (English summary) **2005b:60179**

Scarlatti, Sergio *see* **Breyer, Laird Arnault et al., 2005b:62141**

Schechtman, Gideon *see* **Mendelson, Shahar, 2005f:46019**

Schneider, Dominique *see* **Guillotin-Plantard, Nadine, 2005a:37005**

(Seckler, B. D.) *see* **Skorokhod, Anatolii V., 2005i:60002**

Shao, Xiaofeng *see* **Wu, Wei Biao, 2005b:60060**

Shepp, Larry A. *see* **Mallows, Colin, 2005m:60192**

Sheriff, John *see* **Quastel, Jeremy et al., 2005a:60034**

Shi, Zhan *see* **Csáki, Endre et al., 2005k:60248**

Sidoravicius, Vladas (*with* Sznitman, Alain-Sol) Quenched invariance principles for walks on clusters of percolation or among random conductances. (English summary) **2005d:60155**

Siri, Paola *see* **Olla, Stefano, 2005a:60162**

Skorokhod, Anatolii V. ★ Basic principles and applications of probability theory. **2005i:60002**

Słomiński, Leszek *see* **Łaukajtys, Weronika, 2005j:60126**

Spohn, Herbert *see* **Betz, Volker, 2005k:60260**

Steinebach, Josef *see* **Gut, Allan, 2005m:62096**

Sullivan, Wayne G. *see* **Duffy, Ken, 2005g:60044**

Sun, Rongfeng *see* **Newman, Charles M. et al., 2005k:60306**

Suquet, Charles *see* **Račkauskas, Alfredas, 2005k:62129**

Szczotka, Władysław (*with* Woyczyński, Wojbor A.) Heavy-tailed dependent queues in heavy traffic. (English summary) **2005k:60293**

Sznitman, Alain-Sol *see* **Sidoravicius, Vladas, 2005d:60155**

Szuster, Konrad S. *see* **Rychlik, Zdzisław, 2005g:60056**

Tanemura, Hideki *see* **Katori, Makoto, 2005b:82034**

Toda, Koichiro *see* **Yamato, Hajime et al., 2005k:62073**

Utev, Sergei *see* **Peligrad, Magda, 2005m:60047**

Valkanov, Rossen Functional central limit theorem approximations and the distribution of the Dickey-Fuller test with strongly heteroskedastic data. (English summary)

Vallois, Pierre *see* **Etienne, M. P., 2005i:60088**

Vatutin, Vladimir A. *see* **Dyakonova, E. E. et al., 2005i:60201** *and* **Afanas′ev, V. I. et al., 2005k:60267**

Wang, Li Hong[1] Limit theorems in change-point problems with multivariate long-range dependent observations. (English summary) **2005d:62135**

Wang, Qi Ying *see* **Zhao, Lin Cheng et al., 2005i:60035**

Wang, Wen Sheng[3] The fractal nature of the functional law of logarithm of fractional Brownian motions. (English summary) **2005i:60074**

— How big are the Csörgő-Révész increments of two-parameter Wiener processes? (English summary) **2005m:60059**

Wegkamp, Marten H. *see* **Fermanian, Jean-David et al., 2005i:60037**

Woyczyński, Wojbor A. *see* **Szczotka, Władysław, 2005k:60293**

Wu, Chengqing *see* **Zhao, Lin Cheng et al., 2005i:60035**

Wu, Li Ming[1] *see* **Lei, Liangzhen, 2005g:62073**

Wu, Wei Biao (*with* Shao, Xiaofeng) Limit theorems for iterated random functions. (English summary) **2005b:60060**

— Fourier transforms of stationary processes. (English summary) **2005h:60072**

Xu, Jinfeng *see* **Zhao, Lin Cheng, 2005m:62110**

Yamato, Hajime (*with* Kondo, Masao; Toda, Koichiro) Asymptotic properties of linear combinations of U-statistics with degenerate kernels. (English summary) **2005k:62073**

Yu, Hao Analyzing residual processes of (G)ARCH time series models. (English summary) (*see* **2005g:60006**)
Yurachkovskiĭ, A. P. A criterion for relative compactness of a sequence of measure-valued random processes. (English summary) **2005h:60147**
Zhao, Lin Cheng (*with* Xu, Jinfeng) Weak convergence of weighted empirical cumulative quantile regression functions. (English and Chinese summaries) **2005m:62110**
— (*with* Wu, Chengqing; Wang, Qi Ying) Berry-Esseen bound for a sample sum from a finite set of independent random variables. (English summary) **2005i:60035**

60F20 Zero-one laws

Items with secondary classifications in 60F20

Lévy, Thierry Yang-Mills measure on compact surfaces. (English summary) **2005a:58016**

60F25 L^p-limit theorems

Acharya, Sarat Kumar (*with* Tripathy, C. K.) L_p-convergence of some weighted dependent sequences of random variables. (English summary) **2005b:60087**
Cho, Nhansook (*with* Kwon, Youngmee) Central limit type theorem for weighted particle systems. (English summary) **2005e:60076**
Girko, V. L. The strong circular law. Twenty years later. I. (English summary) **2005e:60077**
Griffin, Byron L. (*with* Ladde, G. S.) Qualitative properties of stochastic iterative processes under random structural perturbations. (English summary) **2005f:60089**
Kwon, Youngmee *see* **Cho, Nhansook**, **2005e:60076**
Ladde, G. S. *see* **Griffin, Byron L.**, **2005f:60089**
Słomczyński, Wojciech (*with* Zastawniak, Tomasz) Utility maximizing entropy and the second law of thermodynamics. (English summary) **2005f:60090**
Tripathy, C. K. *see* **Acharya, Sarat Kumar**, **2005b:60087**
Zastawniak, Tomasz *see* **Słomczyński, Wojciech**, **2005f:60090**

Items with secondary classifications in 60F25

Ango Nzé, Patrick (*with* Doukhan, Paul) Weak dependence: models and applications to econometrics. (English summary) **2005j:62173**
Bieniek, Milena (*with* Szynal, Dominik) Note on random partitions of the segment. (English summary) **2005e:60065**
Chen, Xia[1] (*with* Li, Wenbo V.) Large and moderate deviations for intersection local times. (English summary) **2005m:60175**
Deheuvels, Paul (*with* Martynov, Gennadiĭ V.) Karhunen-Loève expansions for weighted Wiener processes and Brownian bridges via Bessel functions. (English summary) **2005i:62074**
Del Moral, Pierre (*with* Miclo, Laurent) On convergence of chains with occupational self-interactions. (English summary) **2005m:60154**
Dorogovtsev, Andrei A. (*with* Karlikova, Maria P.) Long-time behaviour of measure-valued processes correspondent to stochastic flows with interactions. (English summary) **2005g:60081**
Doukhan, Paul (*with* León, José R.) Asymptotics for the L^p-deviation of the variance estimator under diffusion. (English summary) **2005h:62219**
— *see also* **Ango Nzé, Patrick**, **2005j:62173**
Farhadi, H. *see* **Zangeneh, B.**, **2005j:60065**
Giuliano Antonini, Rita *see* **Volodin, Andrei I. et al.**, **2005i:60017**
Großkinsky, Stefan (*with* Spohn, Herbert) Stationary measures and hydrodynamics of zero range processes with several species of particles. (English summary) **2005d:82090**
Guillotin-Plantard, Nadine (*with* Schneider, Dominique) Limit theorems for sampled dynamical systems. (English summary) **2005a:37005**
Hu, Tien Chung *see* **Volodin, Andrei I. et al.**, **2005i:60017**
Karlikova, Maria P. *see* **Dorogovtsev, Andrei A.**, **2005g:60081**
Kharinskiĭ, P. A. *see* **Nikitin, Ya. Yu.**, **2005m:60073**
Klokov, S. A. (*with* Veretennikov, A. Yu.) Sub-exponential mixing rate for a class of Markov chains. (English summary) **2005f:60148**
Lee, Sungho (*with* Taylor, Robert Lee) On an L_1 consistent wavelet density estimator for the deconvolution problem. (English summary) **2005d:62070**
León, José R. *see* **Doukhan, Paul**, **2005h:62219**
Li, Wenbo V. *see* **Chen, Xia[1]**, **2005m:60175**
Martynov, Gennadiĭ V. *see* **Deheuvels, Paul**, **2005i:62074**
Miclo, Laurent *see* **Del Moral, Pierre**, **2005m:60154**
Mokkadem, Abdelkader (*with* Pelletier, Mariane) The compact law of the iterated logarithm for multivariate stochastic approximation algorithms. (English summary) **2005k:62184**
Molina Fernández, Manuel (*with* Mota, Manuel; Ramos, Alfonso) Limit behaviour for a supercritical bisexual Galton-Watson branching process with population-size-dependent mating. (English summary) **2005c:60111**
Mota, Manuel *see* **Molina Fernández, Manuel et al.**, **2005c:60111**
Nikitin, Ya. Yu. (*with* Kharinskiĭ, P. A.) Sharp asymptotics of small deviations in the L_2-norm for a class of Gaussian processes. (Russian. English and Russian summaries) **2005m:60073**
Pelletier, Mariane *see* **Mokkadem, Abdelkader**, **2005k:62184**
Ramos, Alfonso *see* **Molina Fernández, Manuel et al.**, **2005c:60111**
Schick, Anton (*with* Wefelmeyer, Wolfgang) Functional convergence and optimality of plug-in estimators for stationary densities of moving average processes. (English summary) **2005g:62163**
Schneider, Dominique *see* **Guillotin-Plantard, Nadine**, **2005a:37005**
Serdobolskii, V. I. Limit spectra of random Gram matrices. (English summary) **2005k:15051**
Spohn, Herbert *see* **Großkinsky, Stefan**, **2005d:82090**
Sung, Soo Hak Weak laws for weighted sums of random variables. (English summary) **2005b:60058**
Szynal, Dominik *see* **Bieniek, Milena**, **2005e:60065**
Taylor, Robert Lee *see* **Lee, Sungho**, **2005d:62070**
Veretennikov, A. Yu. *see* **Klokov, S. A.**, **2005f:60148**
Volodin, Andrei I. (*with* Giuliano Antonini, Rita; Hu, Tien Chung) A note on the rate of complete convergence for weighted sums of arrays of Banach space valued random elements. (English summary) **2005i:60017**
Wefelmeyer, Wolfgang *see* **Schick, Anton**, **2005g:62163**
Zangeneh, B. (*with* Farhadi, H.) On almost sure convergence of normalized partial sums. (English summary) **2005j:60065**

60F99 None of the above, but in this section

Allam, Abdellaziz (*with* Mourid, Tahar) Une régularité absolue restreinte des processus linéaires hilbertiens. (English and French summaries) [Restricted absolute regularity of Hilbert-space-valued linear processes] **2005m:60062**
Bentkus, Vidmantas A new approach to approximations in probability theory and operator theory. (Russian. English, Russian and Lithuanian summaries) **2005a:60045**
Dong, Zhi Shan (*with* Yang, Xiao Yun) The lower bound estimate of moderate deviation for NA random variables with stationary distribution. (Chinese. English and Chinese summaries) **2005d:60050**
El Machkouri, Mohamed (*with* Volný, Dalibor) On the central and local limit theorem for martingale difference sequences. (English summary) **2005g:60059**
Mourid, Tahar *see* **Allam, Abdellaziz**, **2005m:60062**
Nekrasov, S. A. Probability-theoretic and statistical investigation of dictionary texts. (Russian. Russian summary) **2005h:60103**
Volný, Dalibor *see* **El Machkouri, Mohamed**, **2005g:60059**
Weber, Michel Jean Georges An arithmetical property of Rademacher sums. (English summary) **2005d:60051**
Yang, Xiao Yun *see* **Dong, Zhi Shan**, **2005d:60050**
Zaitsev, Andrei Yu. On the approximation of a sample by a Poisson point process. (Russian. English and Russian summaries) **2005f:60091**
Zhang, Li Xin[1] Some limit results on the law of the iterated logarithm for NA sequences. (Chinese. English and Chinese summaries) **2005h:60104**

Items with secondary classifications in 60F99

Aaronson, J. (*with* Denker, Manfred; Sarig, Omri; Zweimüller, Roland) Aperiodicity of cocycles and conditional local limit theorems. (English summary) **2005e:37015**
Abadi, Miguel (*with* Galves, Antonio) A version of Maurer's conjecture for stationary ψ-mixing processes. (English summary) **2005f:37014**
Aubrun, Guillaume A sharp small deviation inequality for the largest eigenvalue of a random matrix. (English summary) **2005m:15064**
Bareikis, G. (*with* Indlekofer, Karl-Heinz) Arithmetic processes in semigroups. (English and Lithuanian summaries) **2005f:60022**
Ben-Naim, Eli (*with* Krapivsky, Paul L.) Random geometric series. (English summary) **2005i:11098**
Bleher, Pavel (*with* Kuijlaars, Arno B. J.) Large n limit of Gaussian random matrices with external source. I. (English summary) **2005i:82031**
Cai, Jun (*with* Garrido, José) Asymptotic forms and bounds for tails of convolutions of compound geometric distributions, with applications. (English summary) **2005d:60022**
Chen, Zeqian (*with* Ouyang, Caiheng) The law of the iterated logarithm for pluriharmonic functions in the unit ball of $\mathbf{C}^N$. (English summary) **2005i:32009**
Denker, Manfred *see* **Aaronson, J. et al.**, **2005e:37015**
Eremin, I. I. Fejér processes: synthesis and randomization. (English summary) **2005j:47054**
Galves, Antonio *see* **Abadi, Miguel**, **2005f:37014**
Garrido, José *see* **Cai, Jun**, **2005d:60022**
Godavarti, Mahesh (*with* Hero, A. O., III) Convergence of differential entropies. (English summary) **2005a:94031**
Hero, A. O., III *see* **Godavarti, Mahesh**, **2005a:94031**
Hervé, Loïc Théorème local pour chaînes de Markov de probabilité de transition quasi-compacte. Applications aux chaînes V-géométriquement ergodiques et aux modèles itératifs. (English and French summaries) [Local theorem for Markov chains with quasicompact transition probability. Applications to V-geometrically ergodic chains and iterative models] **2005k:60223**
Hitczenko, Paweł (*with* Knopfmacher, Arnold) Gap-free compositions and gap-free samples of geometric random variables. (English summary) **2005m:60013**
Indlekofer, Karl-Heinz *see* **Bareikis, G.**, **2005f:60022**
Jha, Bijay Kumar *see* **Roy, Hari Shankar**, **2005i:46074**
Khorunzhiĭ, A. M. Rooted trees and moments of large sparse random matrices. (English summary) **2005i:15040**
Knopfmacher, Arnold *see* **Hitczenko, Paweł**, **2005m:60013**
Krapivsky, Paul L. *see* **Ben-Naim, Eli**, **2005i:11098**
Kuijlaars, Arno B. J. *see* **Bleher, Pavel**, **2005i:82031**
Lawler, Gregory F. (*with* Limic, Vlada) The Beurling estimate for a class of random walks. (English summary) **2005k:60143**
Limic, Vlada *see* **Lawler, Gregory F.**, **2005k:60143**
Lin, Zheng Yan Selection for the best logistic population. (Chinese. English and Chinese summaries) **2005b:62050**
Liu, Wen[1] Asymptotic log-likelihood ratio and some studies on Chung's strong law of large numbers. (English summary) **2005i:60050**
Lubnauer, Katarzyna Quantum limit theorems. (English summary) **2005f:46120**
Mingo, James A. (*with* Nica, Alexandru) Annular noncrossing permutations and partitions, and second-order asymptotics for random matrices. **2005a:46138**
Nica, Alexandru *see* **Mingo, James A.**, **2005a:46138**
Ouyang, Caiheng *see* **Chen, Zeqian**, **2005i:32009**
Pakes, Anthony G. Convolution equivalence and infinite divisibility. (English summary) **2005b:60037**
Pan, Jia Zhu (*with* Yu, Bosco W. T.; Pang, Wan-Kai) How does innovation's tail risk determine marginal tail risk of a stationary financial time series? (English summary) **2005h:62255**
Pang, Wan-Kai *see* **Pan, Jia Zhu et al.**, **2005h:62255**
Pötzelberger, Klaus The quantization error of self-similar distributions. (English summary) **2005h:60045**

Raynaud de Fitte, Paul (*with* Zięba, Wiesław) On the construction of a stable sequence with given density. (English summary) **2005d:60008**
Rider, Brian Order statistics and Ginibre's ensembles. (English summary) **2005a:82042**
Roy, Hari Shankar (*with* Jha, Bijay Kumar) On random structure of law of large numbers in von Neumann algebra. (English summary) **2005i:46074**
Sarig, Omri *see* **Aaronson, J. et al., 2005e:37015**
Schuhmacher, Dominic Upper bounds for spatial point process approximations. (English summary) **2005i:60095**
Sempi, Carlo Convergence of copulas: critical remarks. (English and Serbo-Croatian summaries) **2005d:60026**
Yu, Bosco W. T. *see* **Pan, Jia Zhu et al., 2005h:62255**
Zięba, Wiesław *see* **Raynaud de Fitte, Paul, 2005d:60008**
Zweimüller, Roland *see* **Aaronson, J. et al., 2005e:37015**

60Gxx Stochastic processes

60G05 Foundations of stochastic processes

Lyudkovskiĭ, S. V. Stochastic processes and antiderivational equations on non-Archimedean manifolds. (English summary) **2005m:60063**
Mi, Ju-Sheng (*with* Wu, Wei Zhi; Zhang, Wen Xiu) Convergence theorems for set-valued conditional expectations. (English and Chinese summaries) **2005g:60060**
Wu, Wei Zhi *see* **Mi, Ju-Sheng et al., 2005g:60060**
Zhang, Wen Xiu *see* **Mi, Ju-Sheng et al., 2005g:60060**

Items with secondary classifications in 60G05

Chen, Jinwen Large deviations for exchangeable observations with applications. (English summary) **2005m:60049**
Georgescu, Adelina *see* **Suciu, N., 2005a:82085**
Gikhman, Iosif I. (*with* Skorokhod, Anatolii V.) ★ The theory of stochastic processes. I. **2005a:60002**
Hida, Takeyuki Innovation approach to stochastic processes and quantum dynamics. (English summary) **2005k:60219**
(Kotz, Samuel) *see* **Gikhman, Iosif I., 2005a:60002**
Macheras, N. D. *see* **Musiał, K. et al., 2005h:28011**
Musiał, K. (*with* Strauss, Werner; Macheras, N. D.) Existence of linear liftings with invariant sections in product measure spaces. (English summary) **2005h:28011**
Skorokhod, Anatolii V. *see* **Gikhman, Iosif I., 2005a:60002**
Strauss, Werner *see* **Musiał, K. et al., 2005h:28011**
Suciu, N. (*with* Georgescu, Adelina) On the Misra-Prigogine-Courbage theory of irreversibility. (English summary) **2005a:82085**

60G07 General theory of processes

Aletti, Giacomo (*with* Saada, Diane) Set-indexed Itô calculus along paths. (English summary) **2005d:60052**
Bank, Peter (*with* El Karoui, Nicole) A stochastic representation theorem with applications to optimization and obstacle problems. (English summary) **2005a:60046**
Blom, Henk A. P. *see* **Everdij, Mariken H. C.**
Bühler, Hans Information-equivalence: on filtrations created by independent increments. (English summary) **2005m:60064**
Chen, Jin Shu *see* **Wang, Cai Shi et al., 2005j:60070**
Chen, Xuerong *see* **Hou, Zhen Ting et al., 2005a:60048**
Davydov, Yu. A. (*with* Zitikis, Ricărdas) Convex rearrangements of random elements. (English summary) (*see* **2005g:60006**)
El Karoui, Nicole *see* **Bank, Peter, 2005a:60046**
Everdij, Mariken H. C. (*with* Blom, Henk A. P.) Piecewise deterministic Markov processes represented by dynamically coloured Petri nets. (English summary)
Fernández, Roberto (*with* Maillard, Grégory) Chains with complete connections and one-dimensional Gibbs measures. (English summary) **2005a:60047**
— (*with* Maillard, Grégory) Chains and specifications. (English summary) **2005e:60078**
Gillespie, Colin S. (*with* Renshaw, Eric) The evolution of a batch-immigration death process subject to counts. (English summary)
Grigelionis, B. On information processes in statistical experiments with distributed observations. (English summary) **2005b:60088**
Hou, Zhen Ting (*with* Liu, Zai Ming; Zou, Jie Zhong; Chen, Xuerong) Markov skeleton processes. (English summary) **2005a:60048**
Hu, Di He *see* **Wang, Yu Bao, 2005m:60066**
Huang, Ke Ming[1] Some convergence properties for stochastic-process functionals in Hilbert spaces. (Chinese. English and Chinese summaries)
Kaden, Svenja (*with* Potthoff, Jürgen) Progressive stochastic processes and an application to the Itô integral. (English summary) **2005b:60089**
Kisielewicz, Michał Some applications of Girsanov's theorem to the theory of stochastic differential inclusions. (English summary) **2005g:60061**
Liu, Wei Kai (*with* Liu, Xian Zhong) Government expenditure and stochastic endogenous growth model. (Chinese. English and Chinese summaries)
Liu, Xian Zhong *see* **Liu, Wei Kai**
Liu, Zai Ming *see* **Hou, Zhen Ting et al., 2005a:60048**
Macci, Claudio Discrete time uniformly recurrent Markov additive processes: two simplified models and large deviations. (English summary) **2005a:60049**
Maillard, Grégory *see* **Fernández, Roberto, 2005a:60047** *and* **2005e:60078**
Matskevich, A. N. Mathematical models of random unsteady perturbations in the class of regular processes. (Russian. English and Russian summaries)
Mishra, Mithilesh Chandra *see* **Pandey, Himanshu et al.**
Pandey, Himanshu (*with* Yadav, Arvind Kumar; Mishra, Mithilesh Chandra) Inflated probability model for the number of out-migrants. (English summary)
Potthoff, Jürgen *see* **Kaden, Svenja, 2005b:60089**
Qu, Ming Shuang *see* **Wang, Cai Shi et al., 2005j:60070**
Renshaw, Eric *see* **Gillespie, Colin S.**
Saada, Diane *see* **Aletti, Giacomo, 2005d:60052**
Shaikhet, Leonid E. Stability of systems of stochastic linear difference equations with varying delays. (English summary) **2005k:60112**
Sonis, M. Discrete non-linear probabilistic chains. (English summary) **2005b:60090**
Tang, Hongmin (*with* Xie, Zhong Jie) Stationarizing two classes of nonstationary processes by wavelet. (English and Chinese summaries) **2005b:60091**
Vlasenko, Masha Visitation measures for some sequences of random variables with decreasing coefficients. (Russian. Russian summary) **2005m:60065**
Wang, Cai Shi (*with* Qu, Ming Shuang; Chen, Jin Shu) A note on progressive measurability of stochastic processes. (Chinese. English and Chinese summaries) **2005j:60070**
Wang, Chuan Rong An existence theorem on random singular intergral. (Chinese. English and Chinese summaries)
Wang, Xiao-Tian (*with* Wen, Zhi-Xiong) Poisson fractional processes. (English summary) **2005b:60092**
Wang, Yu Bao (*with* Hu, Di He) Relations of average Markov processes, Markov processes, martingales and stationary processes. (Chinese. English and Chinese summaries) **2005m:60066**
Wen, Zhi-Xiong *see* **Wang, Xiao-Tian, 2005b:60092**
Xie, Zhong Jie *see* **Tang, Hongmin, 2005b:60091**
Yadav, Arvind Kumar *see* **Pandey, Himanshu et al.**
Zitikis, Ricărdas *see* **Davydov, Yu. A., (2005g:60006)**
Zou, Jie Zhong *see* **Hou, Zhen Ting et al., 2005a:60048**

Items with secondary classifications in 60G07

Amblard, Pierre-Olivier *see* **Borgnat, Pierre et al., 2005i:82054**
Arcones, Miguel A. The large deviation principle for certain series. (English summary) **2005h:60074**
Bessaih, H. (*with* Flandoli, Franco) A mean field result for 3D vortex filaments. (English summary) **2005f:76047**
Borgnat, Pierre (*with* Amblard, Pierre-Olivier; Flandrin, Patrick) Scale invariances and Lamperti transformations for stochastic processes. (English summary) **2005i:82054**
Bushtruk, A. D. (*with* Bushtruk, T. N.) A correlation-spectral method for the identification of quasistationary time processes. (Russian. Russian summary) **2005k:93227**
Bushtruk, T. N. *see* **Bushtruk, A. D., 2005k:93227**
Charalambous, C. D. (*with* Elliott, Robert J.; Krishnamurthy, Vikram) Conditional moment generating functions for integrals and stochastic integrals. (English summary) **2005c:93099**
Cheridito, Patrick (*with* Delbaen, Freddy; Kupper, Michael) Coherent and convex monetary risk measures for bounded càdlàg processes. (English summary) **2005g:91118**
Cornea, Aurel (*with* Licea, Gabriela) Approximation of measurable processes with continuous and with simple processes. (English summary) **2005h:60156**
Dagg, Richard *see* **Newby, Martin, 2005d:90040**
Delbaen, Freddy *see* **Cheridito, Patrick et al., 2005g:91118**
Derieva, E. N. (*with* Pepelyaeva, T. V.) On a problem of the control of random processes. (Russian. English and Ukrainian summaries) **2005f:49056**
Elkins, Debra A. *see* **Wortman, M. A., 2005k:90023**
Elliott, Robert J. *see* **Charalambous, C. D. et al., 2005c:93099**
Fedotov, Sergei (*with* Okuda, Yuki) Waves in a reaction-transport system with memory, long-range interactions, and transmutations. (English summary) **2005k:35417**
Flandoli, Franco *see* **Bessaih, H., 2005f:76047**
Flandrin, Patrick *see* **Borgnat, Pierre et al., 2005i:82054**
Georgescu, Adelina *see* **Suciu, N., 2005a:82085**
Ghanem, Roger G. *see* **Le Maître, Olivier P. et al., 2005a:76123**
Gikhman, Iosif I. (*with* Skorokhod, Anatolii V.) ★ The theory of stochastic processes. I **2005a:60002**
Gliklikh, Yurīĭ E. Deterministic viscous hydrodynamics via stochastic processes on groups of diffeomorphisms. (English summary) **2005f:76029**
Goswami, Alok (*with* Rao, Bhamidi V.) A theorem on compatibility of systems of sets with applications. (English summary) **2005m:26003**
Hamdan, D. An ergodic Markov chain is not determined by any p-marginals. (English summary) **2005b:60185**
Hanssen, Alfred (*with* Scharf, Louis L.) A theory of polyspectra for nonstationary stochastic processes. (English summary) **2005e:94025**
Kachanov, B. O. The Laplace transform of random processes, and nonparametric identification of continuous systems. (Russian. Russian summary) **2005h:93172**
Knio, Omar M. *see* **Le Maître, Olivier P. et al., 2005a:76123**
Kotsyuruba, P. I. (*with* Nazarov, A. A.) Investigation of the asymptotic average characteristics of non-Markov models of unstable random access networks. (Russian. Russian summary) **2005f:94003**
(Kotz, Samuel) *see* **Gikhman, Iosif I., 2005a:60002**
Krishnamurthy, Vikram *see* **Charalambous, C. D. et al., 2005c:93099**
Kupper, Michael *see* **Cheridito, Patrick et al., 2005g:91118**
Le Maître, Olivier P. (*with* Knio, Omar M.; Najm, Habib N.; Ghanem, Roger G.) Uncertainty propagation using Wiener-Haar expansions. (English summary) **2005a:76123**
Li, Jian Gao A result on weak convergence of the partial sum of a stochastic process sequence. (Chinese. English and Chinese summaries) **2005e:60050**
Licea, Gabriela *see* **Cornea, Aurel, 2005h:60156**
Moghimi-Araghi, S. (*with* Rajabpour, M. A.; Rouhani, S.) Logarithmic conformal null vectors and SLE. (English summary) **2005e:81210**
Mukhamedov, Farrukh On the decomposition of quantum quadratic stochastic processes into layer-Markov processes defined on von Neumann algebras. (Russian. Russian summary) **2005g:46121**
Najm, Habib N. *see* **Le Maître, Olivier P. et al., 2005a:76123**
Nazarov, A. A. *see* **Kotsyuruba, P. I., 2005f:94003**
Newby, Martin (*with* Dagg, Richard) Optimal inspection and perfect repair. (English summary) **2005d:90040**
Okuda, Yuki *see* **Fedotov, Sergei, 2005k:35417**
Pepelyaeva, T. V. *see* **Derieva, E. N., 2005f:49056**
Rajabpour, M. A. *see* **Moghimi-Araghi, S. et al., 2005e:81210**
Rao, Bhamidi V. *see* **Goswami, Alok, 2005m:26003**

Riedel, Frank Dynamic coherent risk measures. (English summary) **2005f:91077**
Rouhani, S. *see* **Moghimi-Araghi, S. et al.**, **2005e:81210**
Scharf, Louis L. *see* **Hanssen, Alfred**, **2005e:94025**
Shaikhet, Leonid E. Lyapunov functionals construction for stochastic difference second-kind Volterra equations with continuous time. (English summary) **2005f:39042**
Silvestrov, Dmitrii S. ★ Limit theorems for randomly stopped stochastic processes. **2005b:60003**
Skorokhod, Anatolii V. *see* **Gikhman, Iosif I.**, **2005a:60002**
Suciu, N. (*with* Georgescu, Adelina) On the Misra-Prigogine-Courbage theory of irreversibility. (English summary) **2005a:82085**
Tanaka, Teruo[1] The accessibility and multiple filtration structure for discrete time multiparameter optimal multiple stopping problems. (English summary) **2005e:60092**
Wortman, M. A. (*with* Elkins, Debra A.) Stochastic modeling for computational warranty analysis. (English summary) **2005k:90023**

60G09 Exchangeability

Bertoin, Jean (*with* Le Gall, Jean-François) Stochastic flows associated to coalescent processes. II. Stochastic differential equations. (English and French summaries) **2005m:60067**
Gnedin, A. V. (*with* Pitman, Jim) Regenerative partition structures. (English summary) **2005k:60113**
— (*with* Pitman, Jim) Regenerative composition structures. (English summary) **2005k:60114**
Le Gall, Jean-François *see* **Bertoin, Jean**, **2005m:60067**
Peccati, Giovanni Hoeffding-ANOVA decompositions for symmetric statistics of exchangeable observations. (English summary) **2005j:60071**
Pitman, Jim *see* **Gnedin, A. V.**, **2005k:60113** *and* **2005k:60114**
Rao, Calyampudi Radhakrishna (*with* Shanbhag, D. N.) Versions of de Finetti's theorem with applications to damage models. (English summary) **2005j:60072**
Shanbhag, D. N. *see* **Rao, Calyampudi Radhakrishna**, **2005j:60072**
Zhao, Yue Xu Random limit theorems for exchangeable random variable sequences. (Chinese. English and Chinese summaries) **2005j:60073**

Items with secondary classifications in 60G09

Aldous, David J. (*with* Miermont, Grégory; Pitman, Jim) The exploration process of inhomogeneous continuum random trees, and an extension of Jeulin's local time identity. (English summary) **2005f:60023**
Berestycki, Julien Exchangeable fragmentation-coalescence processes and their equilibrium measures. (English summary) **2005k:60232**
Berti, Patrizia (*with* Pratelli, Luca; Rigo, Pietro) Limit theorems for a class of identically distributed random variables. (English summary) **2005i:60012**
Bertoin, Jean (*with* Chaumont, Loïc; Pitman, Jim) Path transformations of first passage bridges. (English summary) **2005d:60132**
— The asymptotic behavior of fragmentation processes. (English summary) **2005d:60115**
Chaumont, Loïc *see* **Bertoin, Jean et al.**, **2005d:60132**
Gerardi, Anna (*with* Torti, Barbara) Symmetric models for lifetimes: the role of exchangeable equivalence relations. (English and Italian summaries) **2005a:62217**
Hahn, Marjorie G. *see* **Jiang, Xinxin**, **2005e:60049**
Jiang, Xinxin (*with* Hahn, Marjorie G.) Central limit theorems for exchangeable random variables when limits are scale mixtures of normals. (English summary) **2005e:60049**
Le Jan, Yves (*with* Lemaire, S.) Products of Beta matrices and sticky flows. (English summary) **2005k:60243**
Lemaire, S. *see* **Le Jan, Yves**, **2005k:60243**
Miermont, Grégory *see* **Aldous, David J. et al.**, **2005f:60023**
Paganoni, Anna Maria (*with* Secchi, Piercesare) Interacting reinforced-urn systems. (English summary) **2005d:60045**
Pitman, Jim *see* **Bertoin, Jean et al.**, **2005d:60132** *and* **Aldous, David J. et al.**, **2005f:60023**
Pratelli, Luca *see* **Berti, Patrizia et al.**, **2005i:60012**
Rigo, Pietro *see* **Berti, Patrizia et al.**, **2005i:60012**
Secchi, Piercesare *see* **Paganoni, Anna Maria**, **2005d:60045**
Torti, Barbara *see* **Gerardi, Anna**, **2005a:62217**

60G10 Stationary processes

Akian, Jean-Luc (*with* Puig, Bénédicte) Some results of error evaluation for a non-Gaussian simulation method. (English summary) **2005b:60093**
Albin, J. M. P. On sampling of stationary increment processes. (English summary) **2005k:60115**
Anh, V. V. (*with* McVinish, R.) The Riesz-Bessel fractional diffusion equation. (English summary) **2005b:60094**
— (*with* Knopova, V. P.; Leonenko, N. N.) Continuous-time stochastic processes with cyclical long-range dependence. (English summary) **2005e:60079**
Ball, Frank G. (*with* Milne, Robin K.) Applications of simple point process methods to superpositions of aggregated stationary processes. (English summary) **2005b:60095**
Broman, Erik I. One-dependent trigonometric determinantal processes are two-block-factors. (English summary) **2005k:60116**
Chan, Grace (*with* Wood, Andrew T. A.) Estimation of fractal dimension for a class of non-Gaussian stationary processes and fields. (English summary) **2005i:60062**
Chanda, Kamal C. On a class of stationary nonlinear processes: a review. (English summary) (*see* **2005i:00016**)
Davydov, Yu. A. (*with* Zitikis, Ricărdas) The influence of deterministic noise on empirical measures generated by stationary processes. (English summary) **2005e:60080**
Dewan, Isha (*with* Prakasa Rao, B. L. S.) Non-uniform and uniform Berry-Esseen type bounds for stationary associated sequences. (English summary) **2005m:60068**
Feng, Yu Hu *see* **Zong, Yun Nan et al.**
He, La Mei The asymptotic joint distribution of exceedances point process and partial sum of stationary normal sequences. (Chinese. English and Chinese summaries) **2005d:60053**
— Asymptotic joint distribution of the maximum and partial sum of a kind of stationary normal sequence. (Chinese. English and Chinese summaries) **2005b:60096**
Hu, Liang Jian *see* **Zong, Yun Nan et al.**
Knopova, V. P. *see* **Anh, V. V. et al.**, **2005e:60079**
Leonenko, N. N. *see* **Anh, V. V. et al.**, **2005e:60079**
Lin, Zheng Yan (*with* Zhang, Rongmao) Exact Hausdorff measure of the lever sets of a multi-parameter stable process. (English summary) [Exact Hausdorff measure of the level sets of a multi-parameter stable process] **2005j:60074**
Lippi, Marco Issues concerning the approximation underlying the spectral representation theorem. (English summary) **2005g:60062**
McVinish, R. *see* **Anh, V. V.**, **2005b:60094**
Milne, Robin K. *see* **Ball, Frank G.**, **2005b:60095**
Pipiras, Vladas (*with* Taqqu, Murad S.) Stable stationary processes related to cyclic flows. (English summary) **2005g:60063**
Prakasa Rao, B. L. S. *see* **Dewan, Isha**, **2005m:60068**
Puig, Bénédicte *see* **Akian, Jean-Luc**, **2005b:60093**
Rusakov, A. A. Asymptotic Poisson behavior for high level exits by the envelope of a Gaussian stationary random process. **2005a:60050**
Samorodnitsky, Gennady Extreme value theory, ergodic theory and the boundary between short memory and long memory for stationary stable processes. (English summary) **2005c:60038**
Sato, Yumiko Examples of Chentsov type stationary stable processes in Rosinski's representation. (English summary) **2005i:60063**
Szczotka, Władysław (*with* Woyczyński, Wojbor A.) Distributions of suprema of Lévy processes via the heavy traffic invariance principle. (English summary) **2005h:60105**
Taqqu, Murad S. *see* **Pipiras, Vladas**, **2005g:60063**
Tovstik, T. M. Filtration of stationary processes with rational spectral density. (English summary)
Wood, Andrew T. A. *see* **Chan, Grace**, **2005i:60062**
Woyczyński, Wojbor A. *see* **Szczotka, Władysław**, **2005h:60105**
Zhang, Rongmao *see* **Lin, Zheng Yan**, **2005j:60074**
Zhao, Wei Guo *see* **Zong, Yun Nan et al.**
Zitikis, Ricărdas *see* **Davydov, Yu. A.**, **2005e:60080**
Zong, Yun Nan (*with* Zhao, Wei Guo; Hu, Liang Jian; Feng, Yu Hu) Stationary fuzzy stochastic processes and their spectral decompositions. (Chinese. English and Chinese summaries)

Items with secondary classifications in 60G10

Albin, J. M. P. (*with* Samorodnitsky, Gennady) On overload in a storage model, with a self-similar and infinitely divisible input. (English summary) **2005e:60085**
Amblard, Pierre-Olivier *see* **Borgnat, Pierre et al.**, **2005i:82054**
Andersen, Allan T. (*with* Neuts, Marcel F.; Nielsen, Bo Friis) On the time reversal of Markovian arrival processes. (English summary) **2005f:60111**
Anh, V. V. (*with* Leonenko, N. N.; Sakhno, L. M.) On a class of minimum contrast estimators for fractional stochastic processes and fields. (English summary) **2005g:62046**
Arvanitis, Stelios The diffusion limit of a TVP-GQARCH-$M(1, 1)$ model. (English summary) **2005a:62191**
Banerjee, Sudipto *see* **Majumdar, Anandamayee et al.**
Baxter, John Robert (*with* Jones, Roger L.; Lin, Michael; Olsen, James) SLLN for weighted independent identically distributed random variables. (English summary) **2005e:60064**
Berkes, István (*with* Horváth, Lajos; Kokoszka, P. S.) Probabilistic and statistical properties of GARCH processes. (English summary) **2005k:62199**
Borgnat, Pierre (*with* Amblard, Pierre-Olivier; Flandrin, Patrick) Scale invariances and Lamperti transformations for stochastic processes. (English summary) **2005i:82054**
Boukhari, Fakhr eddine ★ Convergence presque sûre et propriétés métriques des moyennes ergodiques pondérées. (French. French summary) [Almost sure convergence and metric properties of weighted ergodic averages] **2005i:37006**
Braverman, Michael Tail probabilities of subadditive functionals on stable processes with continuous and discrete time. (English summary) **2005e:60039**
Bryc, Włodzimierz (*with* Kaftal, Victor) Strong mixing coefficients for non-commutative Gaussian processes. (English summary) **2005b:46141**
Caires, S. (*with* Ferreira, José António Sousa Jorge) On the non-parametric prediction of conditionally stationary sequences. (English summary) **2005i:62135**
Calogero, A. On the discrete wavelet transform of stochastic processes. (English summary) **2005a:60051**
(Chou, Rouh-Jane) *see* **Hu, Yu-Pin**
Cline, Daren B. H. (*with* Pu, Huo Hui Min) Stability and the Lyapounov exponent of threshold AR-ARCH models. (English summary) **2005h:62237**
Craigmile, Peter F. Simulating a class of stationary Gaussian processes using the Davies-Harte algorithm, with application to long memory processes. (English summary) **2005b:62178**
Cramér, Harald (*with* Leadbetter, M. R.) ★ Stationary and related stochastic processes. **2005g:60004**
Davydov, Yu. A. (*with* Zitikis, Ricărdas) Convex rearrangements of random elements. (English summary) (*see* **2005g:60006**)
Doney, R. A. (*with* Maller, Ross A.) Moments of passage times for Lévy processes. (English and French summaries) **2005h:60137**
— Small-time behaviour of Lévy processes. (English summary) **2005f:60108**
Dorogovtsev, Anatoliĭ Yakovich Time-stationary and time-periodic solutions for boundary value problems. (English summary) **2005f:60137**
Ehm, Werner (*with* Genton, Marc G.; Gneiting, Tilmann) Errata: "Stationary covariances associated with exponentially convex functions" [Bernoulli **9** (2003), no. 4, 607–615; MR1996272 (2004c:62151)]. **2005a:62164**
Farag, E. A. *see* **Ghazal, M. A.**, **2005b:62180**
Fearnhead, Paul Haplotypes: the joint distribution of alleles at linked loci. (English summary) **2005h:60215**
Fernández, Roberto (*with* Maillard, Grégory) Chains with complete connections and one-dimensional Gibbs measures. (English summary) **2005a:60047**
— (*with* Maillard, Grégory) Chains and specifications. (English summary) **2005e:60078**
Ferreira, José António Sousa Jorge *see* **Caires, S.**, **2005i:62135**

Fischer, Markus (*with* Imkeller, Peter) A two-state model for noise-induced resonance in bistable systems with delay. (English summary)
Flandrin, Patrick *see* **Borgnat, Pierre et al., 2005i:82054**
Frantzikinakis, Nikos The structure of strongly stationary systems. (English summary) **2005j:37010**
Gadiaga, Dembo Test d'ajustement fonctionnel pour un processus stationnaire à temps continu. (English and French summaries) [Functional goodness-of-fit test for a continuous-time stationary process] **2005k:62121**
Gao, Jiti Modelling long-range-dependent Gaussian processes with application in continuous-time financial models. (English summary) **2005b:60102**
García, Antonio G. (*with* Muñoz-Bouzo, M. J.; Portal, Alberto) Irregular sampling of generalized harmonizable processes. (English summary) **2005g:94037**
Gelfand, Alan E. *see* **Majumdar, Anandamayee et al.**
Genton, Marc G. (*with* Perrin, Olivier) On a time deformation reducing nonstationary stochastic processes to local stationarity. (English summary) **2005h:62243**
— *see also* **Ehm, Werner et al., 2005a:62164**
Ghazal, M. A. (*with* Farag, E. A.) Asymptotic distribution of spectral density estimate and broadened periodogram of continuous time series. (English summary) **2005b:62180**
Glynn, Peter W. (*with* Thorisson, Hermann) Limit theory for taboo-regenerative processes. (English summary) **2005f:60186**
Gneiting, Tilmann *see* **Ehm, Werner et al., 2005a:62164**
Gohm, Rolf ★ Noncommutative stationary processes. (English summary) **2005f:46119**
Gomes, M. Ivette (*with* de Haan, Laurens; Pestana, Dinis) Joint exceedances of the arch process. (English summary) **2005e:60109**
Gough, John Edward Spectral decomposition of stationary, in the wide sense, quantum random processes. (Russian) **2005m:81182**
de Haan, Laurens *see* **Gomes, M. Ivette et al., 2005e:60109**
Heyde, Christopher C. (*with* Leonenko, N. N.) Student processes. (English summary) **2005m:62161**
Hidalgo, Javier (*with* Soulier, Philippe) Estimation of the location and exponent of the spectral singularity of a long memory process. (English summary) **2005b:62182**
Horváth, Lajos *see* **Berkes, István et al., 2005k:62199**
Hsing, Tailen (*with* Wu, Wei Biao) On weighted U-statistics for stationary processes. (English summary) **2005f:60057**
Hu, Yu-Pin Erratum: "A dynamic factor model" [J. Time Ser. Anal. **24** (2003), no. 5, 529–538; MR2011813 (2004i:62160)] by Hu and R.-J. Chou.
Hüsler, Jürg (*with* Piterbarg, Vladimir I.) On the ruin probability for physical fractional Brownian motion. (English summary) **2005h:60112**
Ibragimov, Il'dar Abdulovich Estimation of analytic spectral density of Gaussian stationary processes. (English summary) **2005h:62228**
Iglói, Endre Renormalization group of and convergence to the LISDLG process. (English summary) **2005h:60099**
Imkeller, Peter *see* **Fischer, Markus**
Inoue, Akihiko (*with* Kasahara, Yukio) Partial autocorrelation functions of the fractional ARIMA processes with negative degree of differencing. (English summary) **2005a:62197**
Jones, Roger L. *see* **Baxter, John Robert et al., 2005e:60064**
Kaftal, Victor *see* **Bryc, Włodzimierz, 2005b:46141**
Kasahara, Yukio *see* **Inoue, Akihiko, 2005a:62197**
Kim, Tae-Sung[1] (*with* Ko, Mi Hwa) On a random functional central limit theorem for a stationary multivariate linear process generated by linearly positive quadrant dependent random vectors. (English summary) **2005d:60048**
Klüppelberg, Claudia (*with* Lindner, Alexander; Maller, Ross A.) A continuous-time GARCH process driven by a Lévy process: stationarity and second-order behaviour. (English summary) **2005g:62159**
Ko, Mi Hwa *see* **Kim, Tae-Sung**[1], **2005d:60048**
Kokoszka, P. S. *see* **Berkes, István et al., 2005k:62199**
Komorowski, Tomasz (*with* Krupa, Grzegorz) On stationarity of Lagrangian observations of passive tracer velocity in a compressible environment. (English summary) **2005h:76045**
Konstantinidis, D. G. (*with* Piterbarg, Vladimir I.; Stamatović, Siniša) Gnedenko-type limit theorems for cyclo stationary χ^2-processes. (English and Lithuanian summaries) **2005k:60119**
Korshunov, D. A. Large deviation probabilities for the maxima of sums of independent summands with a negative mean and a subexponential distribution. (Russian. Russian summary) **2005j:60052**
Krupa, Grzegorz *see* **Komorowski, Tomasz, 2005h:76045**
Kumar, B. Krishna (*with* Pavai Madheswari, S.) Transient analysis of an $M/M/1$ queue subject to catastrophes and server failures. (English summary) **2005j:60172**
Kümmerer, Burkhard Stationary processes in quantum probability. (English summary) **2005h:81184**
Kundu, Debasis (*with* Nandi, Swagata[2]) Determination of discrete spectrum in a random field. (English summary) **2005c:62147**
Lacaze, Bernard Matched shapes for uniform sampling. (English summary) **2005h:62266**
Leadbetter, M. R. *see* **Cramér, Harald, 2005g:60004**
Lee, Oesook (*with* Shin, Dong Wan) Strict stationarity and mixing properties of asymmetric power GARCH models allowing a signed volatility. (English summary) **2005f:62141**
Leonenko, N. N. *see* **Anh, V. V. et al., 2005g:62046** *and* **Heyde, Christopher C., 2005m:62161**
Li, Zhi Ying *see* **Zhang, Yi**[3], **2005a:91074**
Lin, Michael *see* **Baxter, John Robert et al., 2005e:60064**
Lindner, Alexander *see* **Klüppelberg, Claudia et al., 2005g:62159**
Liu, Kun Hui (*with* Lu, Chuan Lai; Qin, Ming Da) A class of stationary impulse-type stochastic controls with a state of semi-martingale. (Chinese. English and Chinese summaries) **2005m:60089**
Löwe, Matthias (*with* Matzinger, Heinrich[2]; Merkl, Franz) Reconstructing a multicolor random scenery seen along a random walk path with bounded jumps. (English summary) **2005h:60309**
Lu, Chuan Lai *see* **Liu, Kun Hui et al., 2005m:60089**
Lu, Nelson (*with* Zimmerman, Dale L.) Testing for directional symmetry in spatial dependence using the periodogram. (English summary)
Ma, Chunsheng Power-law correlations and other models with long-range dependence on a lattice. (English summary) **2005f:60119**
— Long-memory continuous-time correlation models. (English summary) **2005a:62200**
— The use of the variogram in construction of stationary time series models. (English summary) **2005j:62184**
Maejima, Makoto (*with* Yamamoto, Kenji) Long-memory stable Ornstein-Uhlenbeck processes. (English summary) **2005c:60076**
Maillard, Grégory *see* **Fernández, Roberto, 2005a:60047** *and* **2005e:60078**
Majumdar, Anandamayee (*with* Gelfand, Alan E.; Banerjee, Sudipto) Spatio-temporal change-point modeling. (English summary)
Maller, Ross A. *see* **Klüppelberg, Claudia et al., 2005g:62159** *and* **Doney, R. A., 2005h:60137**
Mansuy, Roger (*with* Yor, Marc) Harnesses, Lévy bridges and *Monsieur Jourdain*. (English summary) **2005m:60104**
Marcano, J. G. (*with* Morán, M. D.) The Arov-Grossman model and Burg's entropy. (English summary) **2005h:42017**
Martin, Gael M. *see* **McCabe, B. P. M. et al.**
Matzinger, Heinrich[2] *see* **Löwe, Matthias et al., 2005h:60309**
McCabe, B. P. M. (*with* Martin, Gael M.; Tremayne, A. R.) Assessing persistence in discrete nonstationary time-series models. (English summary)
Merkl, Franz *see* **Löwe, Matthias et al., 2005h:60309**
Morán, M. D. *see* **Marcano, J. G., 2005h:42017**
Morvai, Gusztáv (*with* Weiss, Benjamin) Forecasting for stationary binary time series. (English summary) **2005c:62064**
Mrkvička, Tomáš Estimation variances for parameterized marked Poisson processes and for parameterized Poisson segment processes. (English summary) **2005e:62118**
Muñoz-Bouzo, M. J. *see* **García, Antonio G. et al., 2005g:94037**
Nandi, Swagata[2] *see* **Kundu, Debasis, 2005c:62147**
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Olsen, James *see* **Baxter, John Robert et al., 2005e:60064**
Oppenheim, Georges (*with* Viano, Marie-Claude) Aggregation of random parameters Ornstein-Uhlenbeck or AR processes: some convergence results. (English summary) **2005f:62143**
Pan, Jia Zhu (*with* Yu, Bosco W. T.; Pang, Wan-Kai) How does innovation's tail risk determine marginal tail risk of a stationary financial time series? (English summary) **2005h:62255**
Pang, Wan-Kai *see* **Pan, Jia Zhu et al., 2005h:62255**
Pavai Madheswari, S. *see* **Kumar, B. Krishna, 2005j:60172**
Pedersen, Jan (*with* Sato, Ken-iti) Relations between cone-parameter Lévy processes and convolution semigroups. (English summary) **2005f:60121**
Perrin, Olivier *see* **Genton, Marc G., 2005h:62243**
Pestana, Dinis *see* **Gomes, M. Ivette et al., 2005e:60109**
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Portal, Alberto *see* **García, Antonio G. et al., 2005g:94037**
Prakasa Rao, B. L. S. Rio-type inequality for the expectation of products of random variables. **2005m:60039**
Pu, Huo Hui Min *see* **Cline, Daren B. H., 2005h:62237**
Qin, Ming Da *see* **Liu, Kun Hui et al., 2005m:60089**
Ryabko, B. Ya. The nonprobabilistic approach to learning the best prediction. (English summary)
Sakhno, L. M. *see* **Anh, V. V. et al., 2005g:62046**
Samorodnitsky, Gennady Maxima of continuous-time stationary stable processes. (English summary) **2005j:60098**
— *see also* **Albin, J. M. P., 2005e:60085**
Sato, Ken-iti *see* **Pedersen, Jan, 2005f:60121**
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Stamatović, Siniša *see* **Konstantinidis, D. G. et al., 2005k:60119**
Suchanecki, Z. Explicit form of the time operator of a Gaussian stationary process. (English summary) **2005i:60072**
Szczotka, Władysław (*with* Woyczyński, Wojbor A.) Heavy-tailed dependent queues in heavy traffic. (English summary) **2005k:60293**
Tang, Hongmin (*with* Xie, Zhong Jie) Stationarizing two classes of nonstationary processes by wavelet. (English and Chinese summaries) **2005b:60091**
Thorisson, Hermann *see* **Glynn, Peter W., 2005f:60186**
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Vlasenko, Masha Visitation measures for some sequences of random variables with decreasing coefficients. (Russian. Russian summary) **2005m:60065**
Wang, Hai Bin (*with* Wei, Bo Cheng) Separable lower triangular bilinear model. (English summary) **2005d:62151**
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Wu, Wei Biao Fourier transforms of stationary processes. (English summary) **2005h:60072**
— *see also* **Hsing, Tailen, 2005f:60057**
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Yamamoto, Kenji *see* **Maejima, Makoto, 2005c:60076**
Yano, Yuko A remark on the asymptotic behavior of subordinators. (English summary) **2005b:60123**

Yor, Marc *see* **Mansuy, Roger**, **2005m:60104**
Yu, Bosco W. T. *see* **Pan, Jia Zhu et al.**, **2005h:62255**
Zhang, Yi[3] (*with* Li, Zhi Ying) Risk model for interest randomness. (Chinese. English and Chinese summaries) **2005a:91074**
Zhang, Zhengjun (*with* Smith, Richard L.) The behavior of multivariate maxima of moving maxima processes. (English summary) **2005h:60152**
Zimmerman, Dale L. *see* **Lu, Nelson**
Zitikis, Ricărdas *see* **Davydov, Yu. A.**, (**2005g:60006**)
Zweimüller, Roland Invariant measures for general(ized) induced transformations. (English summary) **2005m:37009**

Items listed otherwise than by author

Lecture Notes in Mathematics *see* **Gohm, Rolf**, **2005f:46119**

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Calogero, A. On the discrete wavelet transform of stochastic processes. (English summary) **2005a:60051**
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Girardin, Valerie (*with* Senoussi, Rachid) Semigroup stationary processes and spectral representation. (English summary) **2005d:60054**
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Koski, Timo *see* **Hurd, Harry**, **2005d:60055**
Ma, Qiang (*with* Dai, Chao Shou; Xu, Ya Juan) A necessary and sufficient condition for the nth-order mean square differentiability of a second-order moment stochastic process. (Chinese. English and Chinese summaries)
Senoussi, Rachid *see* **Girardin, Valerie**, **2005d:60054**
Xu, Ya Juan *see* **Ma, Qiang et al.**

Items with secondary classifications in 60G12

Boukhari, Fakhr eddine ★ Convergence presque sûre et propriétés métriques des moyennes ergodiques pondérées. (French. French summary) [Almost sure convergence and metric properties of weighted ergodic averages] **2005i:37006**
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Fleury, Gilles Alain *see* **Vazquez, Emmanuel et al.**
Gaşpar, Păstorel On operator periodically correlated random fields. (English summary) **2005j:60101**
Gefferth, A. (*with* Veitch, D.; Ruzsa, Imre Z.; Maricza, I.; Molnár, Sándor) A new class of second order self-similar processes. (English summary) **2005c:60041**
Giuliano Antonini, Rita (*with* Weber, Michel Jean Georges) The intersective ASCLT. (English summary) **2005h:60088**
Hanssen, Alfred (*with* Scharf, Louis L.) A theory of polyspectra for nonstationary stochastic processes. (English summary) **2005e:94025**
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Karniadakis, George Em *see* **Xiu, Dongbin et al.**, (**2005g:65007**)
Lu, Nelson (*with* Zimmerman, Dale L.) Testing for directional symmetry in spatial dependence using the periodogram. (English summary)
Lucor, Didier *see* **Xiu, Dongbin et al.**, (**2005g:65007**)
Ma, Chunsheng Power-law correlations and other models with long-range dependence on a lattice. (English summary) **2005f:60119**
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Su, Chau Hsing *see* **Xiu, Dongbin et al.**, (**2005g:65007**)
Subramanyam, A. (*with* Pandalai, H. S.) On the equivalence of the cokriging and kriging systems. (English summary) **2005f:86010**
Swift, Randall J. Classes of harmonizable isotropic random fields. (English summary) **2005e:60108**
Triacca, Umberto Feedback, causality and distance between ARMA models. (English summary) **2005a:62204**
Vazquez, Emmanuel (*with* Walter, Eric; Fleury, Gilles Alain) Intrinsic Kriging and prior information. (English summary)
Veitch, D. *see* **Gefferth, A. et al.**, **2005c:60041**
Walter, Eric *see* **Vazquez, Emmanuel et al.**
Weber, Michel Jean Georges An arithmetical property of Rademacher sums. (English summary) **2005d:60051**
— *see also* **Giuliano Antonini, Rita**, **2005h:60088**
Xiu, Dongbin (*with* Lucor, Didier; Su, Chau Hsing; Karniadakis, George Em) Performance evaluation of generalized polynomial chaos. (English summary) (*see* **2005g:65007**)
van Zanten, J. H. *see* **Dzhaparidze, Kacha**, **2005m:60070**
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60G15 Gaussian processes

Alvarez, Juan (*with* Hajek, Bruce) A queue with semiperiodic traffic. (English summary) **2005m:60069**
Ayache, Antoine Hausdorff dimension of the graph of the fractional Brownian sheet. (English summary) **2005h:60106**
— (*with* Lévy-Véhel, Jacques) On the identification of the pointwise Hölder exponent of the generalized multifractional Brownian motion. (English summary) **2005b:60097**
Azaïs, Jean-Marc (*with* Wschebor, Mario) On the distribution of the maximum of a Gaussian field with d parameters. (English summary) **2005k:60117**
Bardina, Xavier (*with* Jolis, Maria; Tudor, Ciprian A.) Weak convergence to the fractional Brownian sheet and other two-parameter Gaussian processes. (English summary) **2005b:60098**
Baudoin, Fabrice (*with* Nualart, David) Corrigendum to: "Equivalence of Volterra processes" [Stochastic Process. Appl. **107** (2003), no. 2, 327–350; MR1999794 (2004e:60064)]. **2005j:60075**
Beghin, Luisa (*with* Nikitin, Ya. Yu.; Orsingher, Enzo) Exact small ball constants for some Gaussian processes under L^2-norm. (English and Russian summaries) **2005h:60107**
— *see also* **Orsingher, Enzo**, **2005a:60056**
Bender, Christian An S-transform approach to integration with respect to a fractional Brownian motion. (English summary) **2005d:60056**
— (*with* Elliott, Robert J.) On the Clark-Ocone theorem for fractional Brownian motions with Hurst parameter bigger than a half. (English summary) **2005d:60057**
Bianchi, Sergio Pathwise identification of the memory function of multifractional Brownian motion with application to finance. (English summary) **2005k:60118**
Bojdecki, Tomasz (*with* Gorostiza, Luis G.; Talarczyk, Anna) Fractional Brownian density process and its self-intersection local time of order k. (English summary) **2005j:60076**
Borst, S. C. *see* **Dębicki, Krzysztof et al.**, **2005h:60108** *and* **Zwart, Bert et al.**, **2005m:60076**
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— *see also* **Zwart, Bert et al.**, **2005m:60076**
Dieker, A. B. Extremes of Gaussian processes over an infinite horizon. (English summary) **2005i:60064**
Duncan, Tyrone E. Some processes associated with a fractional Brownian motion. (English summary) **2005h:60109**
Dzhaparidze, Kacha (*with* van Zanten, J. H.) A series expansion of fractional Brownian motion. (English summary) **2005i:60065**
— (*with* van Zanten, J. H.) Krein's spectral theory and the Paley-Wiener expansion for fractional Brownian motion. (English summary) **2005m:60070**
Eddahbi, M'hamed (*with* Vives, Josep) Chaotic expansion and smoothness of some functionals of the fractional Brownian motion. (English summary) **2005d:60058**
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Fernique, Xavier Extension du théorème de Cameron-Martin aux translations aléatoires. II. Intégrabilité des densités. (English summary) [Extension of the Cameron-Martin theorem to random translations. II. Integrability of the densities] **2005f:60093**
Fill, James Allen (*with* Torcaso, Fred) Asymptotic analysis via Mellin transforms for small deviations in L^2-norm of integrated Brownian sheets. (English summary) **2005i:60066**
Fomina, T. A. On the equivalence of two Gaussian measures generated by solutions of elliptic differential equations in the Euclidean space $\mathbb{R}^n$. (Russian. English summary) **2005i:60067**
Fradelizi, Matthieu *see* **Cordero-Erausquin, Dario et al.**, **2005g:60064**
Gao, Fu Chang (*with* Hannig, Jan; Lee, Tzong-Yow; Torcaso, Fred) Laplace transforms via Hadamard factorization. (English summary) **2005h:60110**
— (*with* Hannig, Jan; Lee, Tzong-Yow; Torcaso, Fred) Exact L^2 small balls of Gaussian processes. (English summary) **2005d:60059**
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Higdon, Dave (*with* Kennedy, Marc; Cavendish, James C.; Cafeo, John A.; Ryne, Robert D.) Combining field data and computer simulations for calibration and prediction. (English summary)
Hu, Yueyun *see* **Csáki, Endre**, **2005f:60092**
Hüsler, Jürg (*with* Piterbarg, Vladimir I.) On the ruin probability for physical fractional Brownian motion. (English summary) **2005h:60112**
Il'chenko, S. A. (*with* Mīshura, Yulīya) Generalized two-parameter Lebesgue-Stieltjes integrals and their applications to fractional Brownian fields. (Ukrainian. English and Ukrainian summaries) **2005i:60068**
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Koning, Alex J. (*with* Protasov, Vladimir Yu.) Tail behaviour of Gaussian processes with applications to the Brownian pillow. (English summary) **2005a:60053**
Konstantinidis, D. G. (*with* Piterbarg, Vladimir I.; Stamatović, Siniša) Gnedenko-type limit theorems for cyclo stationary χ^2-processes. (English and Lithuanian summaries) **2005k:60119**
Kunz, Michael *see* **Janssen, Arnold**, **2005j:60077**
Lachout, Petr On linear transformations of Wiener process. (English summary) **2005e:60081**

Lee, Tzong-Yow *see* **Gao, Fu Chang et al., 2005d:60059** *and* **2005h:60110**
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Lifshits, Mikhail A. (*with* Linde, Werner) Small deviations of weighted fractional processes and average non-linear approximation. (English summary) **2005m:60072**
Lin, Huo Nan *see* **Wang, Jian[7]**
Lin, Zheng Yan The large increments of a multifractional Brownian motion. (English summary) **2005i:60070**
— (*with* Wang, Wen Sheng[3]) The modulus of non-differentiability of a Brownian motion in l_p. (English summary) **2005i:60071**
— *see also* **Zhang, Rongmao, 2005m:60075**
Linde, Werner *see* **Lifshits, Mikhail A., 2005m:60072**
Lukić, Milan N. Integrated Gaussian processes and their reproducing kernel Hilbert spaces. (English summary) **2005e:60082**
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Mīshura, Yulīya *see* **Īl'chenko, S. A., 2005i:60068**
Molchan, G. (*with* Khokhlov, Andreĭ Vladimirovich) Small values of the maximum for the integral of fractional Brownian motion. (English summary) **2005a:60054**
Moon, Hee Jin (*with* Choi, Yong-Kab) Sharp strong limit theorems on the increments of a Gaussian process. (English summary) **2005b:60099**
Mountford, Thomas S. Brownian sheet local time and bubbles. (English summary) **2005a:60055**
Nazarov, A. I. (*with* Nikitin, Ya. Yu.) Exact L_2-small ball behavior of integrated Gaussian processes and spectral asymptotics of boundary value problems. (English summary) **2005d:60060**
— Logarithmic asymptotics of small deviations for some Gaussian processes in the L_2-norm with respect to a self-similar measure. (Russian. English and Russian summaries) **2005j:60078**
Ni, Wen Qing A proof of the existence of Brownian sheet for which all sample paths are continuous. (Chinese. English and Chinese summaries)
Nieminen, Ari Fractional Brownian motion and martingale-differences. (English summary) **2005k:60120**
Nikitin, Ya. Yu. (*with* Kharinskiĭ, P. A.) Sharp asymptotics of small deviations in the L_2-norm for a class of Gaussian processes. (Russian. English and Russian summaries) **2005m:60073**
— *see also* **Nazarov, A. I., 2005d:60060** *and* **Beghin, Luisa et al., 2005h:60107**
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— *see also* **Beghin, Luisa et al., 2005h:60107**
Perrin, Emmanuel (*with* Harba, Rachid; Iribarren, Ileana; Jennane, Rachid) Piecewise fractional Brownian motion. (English summary) **2005k:60121**
Piterbarg, Vladimir I. *see* **Hüsler, Jürg, 2005h:60112** *and* **Konstantinidis, D. G. et al., 2005k:60119**
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Protasov, Vladimir Yu. *see* **Koning, Alex J., 2005a:60053**
Puig, Bénédicte (*with* Poirion, Fabrice) White noise and simulation of ordinary Gaussian processes. (English summary) **2005c:60039**
Robeva, Rayna Stefanova (*with* Pitt, Loren D.) On the equality of sharp and germ σ-fields for Gaussian processes and fields. (English summary) **2005e:60083**
Rondón, Oscar *see* **León, José R., 2005i:60069**
Rumyantseva, E. V. Asymptotics of the probability of large deviations of a conditionally Gaussian process with random variance. (Russian. Russian summary) **2005m:60074**
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Shao, Qi-Man *see* **Li, Wenbo V., 2005f:60094**
Stamatović, Siniša Limit theorem for high level A-upcrossings by χ-process. **2005d:60061**
— *see also* **Konstantinidis, D. G. et al., 2005k:60119**
Suchanecki, Z. Explicit form of the time operator of a Gaussian stationary process. (English summary) **2005i:60072**
Talarczyk, Anna *see* **Bojdecki, Tomasz et al., 2005j:60076**
Tindel, Samy (*with* Tudor, Ciprian A.; Viens, Frederi) Sharp Gaussian regularity on the circle, and applications to the fractional stochastic heat equation. (English summary) **2005i:60073**
Torcaso, Fred *see* **Gao, Fu Chang et al., 2005d:60059; 2005h:60110** *and* **Fill, James Allen, 2005i:60066**
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Tudor, Ciprian A. *see* **Bardina, Xavier et al., 2005b:60098** *and* **Tindel, Samy et al., 2005i:60073**
Viens, Frederi *see* **Tindel, Samy et al., 2005i:60073**
Vives, Josep *see* **Eddahbi, M'hamed, 2005d:60058**
Wang, Jian[7] (*with* Lin, Huo Nan) Localization phenomenon for the occupation measure of a Brownian sheet. (Chinese. English and Chinese summaries)
Wang, Wen Sheng[3] Fractal nature of the functional laws of logarithm of a fractional Brownian motion. (English summary) **2005d:60062**
— The fractal nature of the functional law of logarithm of fractional Brownian motions. (English summary) **2005i:60074**
— *see also* **Lin, Zheng Yan, 2005i:60071**
Wschebor, Mario *see* **Azaïs, Jean-Marc, 2005k:60117**
Yan, Yi[1] Statistical multiplexing of homogeneous fractional Brownian streams. (English summary) **2005d:60063**
van Zanten, J. H. *see* **Dzhaparidze, Kacha, 2005i:60065** *and* **2005m:60070**
Zhang, Rongmao (*with* Lin, Zheng Yan) The Hausdorff dimension of the level sets for a fractional Brownian sheet. (English summary) **2005m:60075**
Zwart, Bert (*with* Borst, S. C.; Dębicki, Krzysztof) Subexponential asymptotics of hybrid fluid and ruin models. (English summary) **2005m:60076**
— *see also* **Dębicki, Krzysztof et al., 2005h:60108**

Items with secondary classifications in 60G15

Adler, Robert J. Gaussian random fields on manifolds. (English summary) **2005i:58043**
— *see also* **Taylor, Jonathan E., 2005g:58072**
Aitken, George J. M. Long and short-term correlation properties of computer-generated fractional Gaussian noise. (English summary)
Al'beverio, S. (*with* Ferrario, B.; Yoshida, Minoru W.) On the essential self-adjointness of Wick powers of relativistic fields and of fields unitary equivalent to random fields. (English summary) **2005c:81124**
Albin, J. M. P. On sampling of stationary increment processes. (English summary) **2005k:60115**
Aletti, Giacomo (*with* Saada, Diane) Set-indexed Itô calculus along paths. (English summary) **2005d:60052**
Amini-Dehak, Mohammad (*with* Azarnoosh, H. A.; Bozorgnia, A.) The strong law of large numbers for negatively dependent generalized Gaussian random variables. (English summary) **2005h:60084**
Angulo, J. M. *see* **Ruiz-Medina, M. D. et al., 2005a:60078**
Anh, V. V. (*with* McVinish, R.) Completely monotone property of fractional Green functions. (English summary) **2005f:26013**
— (*with* Inoue, Akihiko) Prediction of fractional Brownian motion with Hurst index less than 1/2. (English summary) **2005i:60078**
— (*with* Leonenko, N. N.; Sakhno, L. M.) On a class of minimum contrast estimators for fractional stochastic processes and fields. (English summary) **2005g:62046**
— *see also* **Ruiz-Medina, M. D. et al., 2005a:60078**
Arkashov, N. S. (*with* Borisov, I. S.) Gaussian approximation of partial sums processes of moving averages. (Russian. Russian summary) **2005m:62155**
Azaïs, Jean-Marc (*with* Wschebor, Mario) Upper and lower bounds for the tails of the distribution of the condition number of a Gaussian matrix. (English summary) **2005k:15016**
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Bakouch, H. S. *see* **Teamah, A. A. M., 2005j:62190**
Barbe, Ph. (*with* McCormick, William P.) Second-order expansion for the maximum of some stationary Gaussian sequences. (English summary) **2005c:60070**
Bardina, Xavier (*with* Márquez-Carreras, David; Rovira, Carles; Tindel, Samy) Higher order expansions for the overlap of the SK model. (English summary) **2005i:82030**
— (*with* Márquez-Carreras, David; Rovira, Carles; Tindel, Samy) The p-spin interaction model with external field. (English summary) **2005m:82065**
Bayraktar, Erhan (*with* Poor, H. Vincent; Sircar, K. Ronnie) Estimating the fractal dimension of the S&P 500 index using wavelet analysis. (English summary) **2005c:62145**
— (*with* Poor, H. Vincent) Stochastic differential games in a non-Markovian setting. (English summary) **2005k:91042**
Beghin, Luisa On the maximum of some conditional and integrated Gaussian fields and their statistical applications. (English summary) **2005m:60107**
Bender, Christian (*with* Elliott, Robert J.) Arbitrage in a discrete version of the Wick-fractional Black-Scholes market. (English summary) **2005g:91094**
— The restriction of the fractional Itô integral to adapted integrands is injective. (English summary) **2005k:60168**
Bertacchi, Daniela (*with* Giacomin, Giambattista) Wall repulsion and mutual interface repulsion: a harmonic crystal model in high dimensions. (English summary) **2005g:82035**
Berzin, Corinne (*with* León, José R.) Convergence in fractional models and applications (English summary) **2005k:60071**
Biagini, Francesca (*with* Øksendal, Bernt K.) Minimal variance hedging for fractional Brownian motion. (English summary) **2005b:60135**
— (*with* Øksendal, Bernt K.; Sulem, Agnès; Wallner, Naomi) An introduction to white-noise theory and Malliavin calculus for fractional Brownian motion. (English summary) **2005a:60107**
Bojdecki, Tomasz (*with* Gorostiza, Luis G.; Talarczyk, Anna) Sub-fractional Brownian motion and its relation to occupation times. (English summary) **2005k:60124**
Borisov, I. S. *see* **Arkashov, N. S., 2005m:62155**
Bozorgnia, A. *see* **Amini-Dehak, Mohammad et al., 2005h:60084**
Bryc, Włodzimierz (*with* Kaftal, Victor) Strong mixing coefficients for non-commutative Gaussian processes. (English summary) **2005b:46141**
Brzeźniak, Zdzisław (*with* van Neerven, J. M. A. M.) Space-time regularity for linear stochastic evolution equations driven by spatially homogeneous noise. (English summary) **2005c:60077**
Çağlar, M. A long-range dependent workload model for packet data traffic. (English summary) **2005a:90024**
Chebotarev, V. I. *see* **Nagaev, S. V., 2005g:60014**
Choi, Yong-Kab (*with* Lee, Seaung Hyune) Some limit theorems on the increments of l^p-valued Gaussian processes. (English summary) **2005d:60042**
— (*with* Park, Soon Kyu; Hwang, Kyo Shin) Liminf theorems on the lag increments of a Gaussian process. (English summary) **2005d:60043**
— (*with* Hwang, Kyo Shin; Moon, Hee Jin; Kim, Tae-Sung[1]; Baek, Jong Il) Limit theorems for partial sum processes of a Gaussian sequence. (English summary) **2005g:60043**
— *see also* **Sung, Hwa Sang et al., 2005d:60047; 2005k:60102; Kang, Shin Young et al., 2005g:60052; 2005j:60059; Lee, Seaung Hyune, 2005h:60092; Moon, Hee Jin, 2005h:60095** *and* **Lin, Zheng Yan et al., 2005k:60098**
(Chou, Rouh-Jane) *see* **Hu, Yu-Pin**
Chow, Winston C. (*with* Wegman, Edward J.) Modeling continuous time series driven by fractional Gaussian noise. (English summary) **2005k:60176**
Conti, Pier Luigi (*with* Lijoi, Antonio; Ruggeri, Fabrizio) Long-range dependence and performance in telecom networks. (English summary)
Cornford, Dan (*with* Csató, Lehel; Evans, David John[3]; Opper, Manfred) Bayesian analysis of the scatterometer wind retrieval inverse problem: some new approaches. (English summary)
Csáki, Endre (*with* Shi, Zhan; Yor, Marc) Fractional Brownian motions as "higher-order"

fractional derivatives of Brownian local times. (English summary) **2005f:60171**

Csató, Lehel *see* **Cornford, Dan et al.**

Dai Pra, Paolo (*with* Rœlly, S.) An existence result for infinite-dimensional Brownian diffusions with non-regular and non-Markovian drift. (English summary) **2005i:60150**

Dalang, Robert C. (*with* Lévêque, Olivier) Second-order linear hyperbolic SPDEs driven by isotropic Gaussian noise on a sphere. (English summary) **2005h:60182**

Dauxois, Jean-Yves *see* **Kirmani, Syed N. U. A., 2005c:62080**

Davydov, Yu. A. (*with* Zitikis, Ricărdas) Convex rearrangements of random elements. (English summary) (*see* **2005g:60006**)

Decreusefond, Laurent Stochastic integration with respect to Volterra processes. (English and French summaries) **2005m:60117**

Denis, Laurent[2] (*with* Erraoui, Mohamed; Ouknine, Youssef) Existence and uniqueness for solutions of one dimensional SDE's driven by an additive fractional noise. (English summary) **2005i:60105**

De Oliveira, Victor Bayesian inference and prediction of Gaussian random fields based on censored data. (English summary)

Dereudre, D. (*with* Rœlly, S.) On Gibbsianness of infinite-dimensional diffusions. (English summary) **2005f:60168**

Derieva, E. N. (*with* Pepelyaeva, T. V.) On a problem of the control of random processes. (Russian. English and Ukrainian summaries) **2005f:49056**

Dovgaĭ, B. V. Justification of the Fourier method for an inhomogeneous hyperbolic equation with a random right-hand side. (Ukrainian. English and Ukrainian summaries) **2005h:35380**

Ebrahimi, Nader Burn-in and covariates. (English summary) **2005b:62015**

Eisenbaum, Nathalie Isomorphism theorems for Markov chains. (English summary) **2005b:60183**

Elliott, Robert J. *see* **Bender, Christian, 2005g:91094**

El-Nouty, C. Lower classes of integrated fractional Brownian motion. (English summary) **2005g:60051**

Enriquez, Nathanaël A simple construction of the fractional Brownian motion. (English summary) **2005a:60041**

Erraoui, Mohamed *see* **Denis, Laurent[2] et al., 2005i:60105**

Evans, David John[3] *see* **Cornford, Dan et al.**

Fedoryanich, T. V. *see* **Kozachenko, Yu. V., 2005i:60075**

Ferrario, B. *see* **Al'beverio, S. et al., 2005c:81124**

Forchini, Giovanni Optimal weighted average power similar tests for the covariance structure in the linear regression model. (English summary) **2005i:62101**

Fouque, Jean-Pierre (*with* Papanicolaou, George; Sircar, K. Ronnie) Stochastic volatility and correction to the heat equation. (English summary) **2005m:60141**

Frank, T. D. Complete description of a generalized Ornstein-Uhlenbeck process related to the nonextensive Gaussian entropy. (English summary)

Fried, Roland Time series models with given interactions. (English summary) (*see* **2005a:62016**)

Gabrielli, Davide (*with* Galves, Antonio; Guiol, Daniela) Fluctuations of the empirical entropies of a chain of infinite order. (English summary) **2005b:60052**

Galves, Antonio *see* **Gabrielli, Davide et al., 2005b:60052**

Gänssler, Peter (*with* Rost, Daniel) Smoothed empirical processes and the bootstrap. (English summary) **2005m:60043**

Gapeev, Pavel V. On arbitrage and Markovian short rates in fractional bond markets. (English summary) **2005m:91099**

Garet, Olivier (*with* Marchand, Régine) Asymptotic shape for the chemical distance and first-passage percolation on the infinite Bernoulli cluster. (English summary) **2005i:60195**

— Percolation transition for some excursion sets. (English summary) **2005m:60232**

Gawarecki, L. (*with* Mandrekar, V.) Non-linear filtering with Gaussian martingale noise: Kalman filter with fBm noise. (English summary) **2005m:60082**

Ghanem, Roger G. *see* **Zou, Yu[1], 2005i:76090**

Giacomin, Giambattista *see* **Bertacchi, Daniela, 2005g:82035**

Giuliano Antonini, Rita (*with* Weber, Michel Jean Georges) The intersective ASCLT. (English summary) **2005h:60088**

Gloter, A. (*with* Hoffmann, Marc) Stochastic volatility and fractional Brownian motion. (English summary) **2005j:62170**

Gneiting, Tilmann (*with* Schlather, Martin) Stochastic models that separate fractal dimension and the Hurst effect. (English summary)

Godolphin, E. J. (*with* Johnson, S. E.) Decomposition of time series dynamic linear models. (English summary) **2005j:62180**

Gorenflo, Rudolf *see* **Mainardi, Francesco et al.**

Gorostiza, Luis G. *see* **Bojdecki, Tomasz et al., 2005k:60124**

Gradinaru, Mihai (*with* Nourdin, Ivan) Approximation at first and second order of m-order integrals of the fractional Brownian motion and of certain semimartingales. (English summary) **2005f:60126**

Guédon, Olivier (*with* Zvavitch, Artem) Supremum of a process in terms of trees. (English summary) **2005i:60032**

Guiol, Daniela *see* **Gabrielli, Davide et al., 2005b:60052**

Guo, Ying *see* **Yan, Litan, 2005h:60073**

Hida, Takeyuki (*with* Si, Si) ★ An innovation approach to random fields. **2005k:60006**

Hoffmann, Marc *see* **Gloter, A., 2005j:62170**

Horbacz, Katarzyna Random dynamical systems with jumps. (English summary) **2005e:37113**

Hu, Yaozhong Optimization of consumption and portfolio and minimization of volatility. (English summary) **2005h:60157**

— (*with* Øksendal, Bernt K.; Salopek, Donna Mary) Weighted local time for fractional Brownian motion and applications to finance. (English summary) **2005m:60119**

Hu, Yu-Pin Erratum: "A dynamic factor model" [J. Time Ser. Anal. **24** (2003), no. 5, 529–538; MR2011813 (2004i:62160)] by Hu and R.-J. Chou.

Hüsler, Jürg (*with* Piterbarg, Vladimir I.; Seleznev, O. V.) On convergence of the uniform norms for Gaussian processes and linear approximation problems. (English summary) **2005b:60132**

— (*with* Piterbarg, Vladimir I.) Limit theorem for maximum of the storage process with fractional Brownian motion as input. (English summary) **2005h:60291**

Hwang, Kyo Shin *see* **Choi, Yong-Kab et al., 2005d:60043; 2005g:60043; Kang, Shin Young et al., 2005j:60059; Lin, Zheng Yan et al., 2005k:60098** *and* **Sung, Hwa Sang et al., 2005k:60102**

Ibarrola Muñoz, María del Pilar (*with* Pérez-Palomares, A.) Linear completeness in a continuous time Gauss-Markov model. (English summary) **2005h:62227**

Ibragimov, Il'dar Abdulovich Estimation of analytic spectral density of Gaussian stationary processes. (English summary) **2005h:62228**

Ikeda, Nobuyuki (*with* Taniguchi, Setsuo) Quadratic Wiener functionals, Kalman-Bucy filters, and the KdV equation. (English summary) **2005h:60158**

Il'chenko, S. A. *see* **Mīshura, Yulīya, 2005k:60159**

Inoue, Akihiko *see* **Anh, V. V., 2005i:60078**

Jian, Ji Gui (*with* Shen, Yi[2]; Liao, Xiao Xin) Strong stability in probability of partial variables in a stochastic linear system. (Chinese. English and Chinese summaries) **2005h:60167**

Johnson, S. E. *see* **Godolphin, E. J., 2005j:62180**

Kaftal, Victor *see* **Bryc, Włodzimierz, 2005b:46141**

Kang, Shin Young (*with* Choi, Yong-Kab) Moduli of continuity on the increments of l^∞-valued Gaussian processes. (English summary) **2005g:60052**

— (*with* Choi, Yong-Kab; Hwang, Kyo Shin) Moduli of continuity for l^∞-valued multi-parameter Gaussian processes. (English summary) **2005j:60059**

Kim, Bong Jin An integral equation for the operator valued function space integral. (English summary) **2005a:28026**

Kim, Tae-Sung[1] *see* **Choi, Yong-Kab et al., 2005g:60043**

Kirmani, Syed N. U. A. (*with* Dauxois, Jean-Yves) Testing the Koziol-Green model against monotone conditional odds for censoring. (English summary) **2005c:62080**

Kleptsyna, M. L. (*with* Le Breton, A.; Viot, M.) Asymptotically optimal filtering in linear systems with fractional Brownian noises. (English summary) **2005j:60083**

Klüppelberg, Claudia (*with* Kühn, Christoph) Fractional Brownian motion as a weak limit of Poisson shot noise processes—with applications to finance. (English summary) **2005h:60100**

Kolbjørnsen, Odd (*with* Omre, Henning) Bayesian inversion of piecewise affine operators in a Gaussian framework. (English summary)

Korolev, V. Yu. ★ Смешанные гауссовские вероятностные модели реальных процессов. (Russian. Russian summary) [Mixed Gaussian probabilistic models of real processes] **2005h:60006**

Kozachenko, Yu. V. (*with* Fedoryanich, T. V.) A criterion for testing hypotheses on the covariance function of Gaussian stationary process. (Ukrainian. Ukrainian summary) **2005i:60075**

Kozlov, A. M. On large deviations for the Shepp statistic for a Gaussian walk. (Russian. Russian summary) **2005k:60088**

Kühn, Christoph *see* **Klüppelberg, Claudia, 2005h:60100**

Kurchenko, Oleksandr O. A strongly consistent estimate for the Hurst parameter of a fractional Brownian motion. (Ukrainian. Ukrainian summary) **2005f:62043**

Kuriki, Satoshi *see* **Takemura, Akimichi, 2005g:60027**

Kwapień, Stanisław (*with* Tarieladze, V. I.) On a.s. unconditional convergence of random series in Banach spaces. (English summary) **2005e:60011**

Lanjri Zaïdi, N. (*with* Nualart, David) Smoothness of the law of the supremum of the fractional Brownian motion. (English summary) **2005b:60138**

Latała, Rafał Some estimates of norms of random matrices. (English summary) **2005i:15041**

Le Breton, A. *see* **Kleptsyna, M. L. et al., 2005j:60083**

Lee, Seaung Hyune (*with* Choi, Yong-Kab) Moduli of continuity for l^p-valued Gaussian processes. (English summary) **2005h:60092**

— *see also* **Choi, Yong-Kab, 2005d:60042**

Lee, Sungchul *see* **Lin, Zheng Yan et al., 2005k:60098**

León, José R. *see* **Berzin, Corinne, 2005k:60071**

Leonenko, N. N. *see* **Anh, V. V. et al., 2005g:62046**

Lévêque, Olivier *see* **Dalang, Robert C., 2005h:60182**

Li, Wenbo V. (*with* Linde, Werner) Small deviations of stable processes via metric entropy. (English summary) **2005b:60125**

Liao, Xiao Xin *see* **Jian, Ji Gui et al., 2005h:60167**

Lijoi, Antonio *see* **Conti, Pier Luigi et al.**

Lin, Zheng Yan (*with* Hwang, Kyo Shin; Lee, Sungchul; Choi, Yong-Kab) Path properties of a d-dimensional Gaussian process. (English summary) **2005k:60098**

— *see also* **Wang, Wen Sheng[3], 2005d:60049**

Linde, Werner Kolmogorov numbers of Riemann-Liouville operators over small sets and applications to Gaussian processes. (English summary) **2005c:47021**

— *see also* **Li, Wenbo V., 2005b:60125**

Liu, Shao Yue (*with* Yang, Xiang Qun) Pricing of bi-directional European options when underlying asset price submitting to geometric fractional Brownian motion. (Chinese. English and Chinese summaries)

Liu, Xin[7] (*with* Shao, Yongzhao) Asymptotics for the likelihood ratio test in a two-component normal mixture model. (English summary) **2005c:62036**

Lu, Chuan-rong *see* **Zhang, Li Xin[1] et al., 2005b:60081**

Luschgy, Harald (*with* Pagès, Gilles) Sharp asymptotics of the functional quantization problem for Gaussian processes. (English summary) **2005d:60036**

Machado, Ulla (*with* Rychlik, Igor) Wave statistics in non-linear random sea. (English summary)

Mainardi, Francesco Applications of integral transforms in fractional diffusion processes. (English summary) **2005k:44002**

— (*with* Gorenflo, Rudolf; Scalas, Enrico) A fractional generalization of the Poisson processes. (English summary)

Majewski, Kurt Corrigendum: "Large deviations for multi-dimensional reflected fractional Brownian motion" [Stoch. Stoch. Rep. **75** (2003), no. 4, 233–257; MR1994908 (2004f:60058)]. **2005f:60071**

Malajovich, Gregorio (*with* Rojas, J. Maurice) High probability analysis of the condition number of sparse polynomial systems. (English summary) **2005e:34166**

Mandjes, Michel (*with* van Uitert, Miranda) Sample-path large deviations for tandem and priority queues with Gaussian inputs. (English summary) **2005k:60290**

Mandrekar, V. *see* **Gawarecki, L., 2005m:60082**

Marchand, Régine *see* **Garet, Olivier**, 2005i:60195
Marcus, Michael B. Local times on curves and surfaces. (English summary) **2005a:60122**
Márquez-Carreras, David *see* **Bardina, Xavier et al.**, 2005i:82030 *and* 2005m:82065
Maslowski, Bohdan (*with* Schmalfuß, Björn) Random dynamical systems and stationary solutions of differential equations driven by the fractional Brownian motion. (English summary) **2005g:37100**
Mauceri, Giancarlo (*with* Meda, Stefano; Sjögren, Peter) Sharp estimates for the Ornstein-Uhlenbeck operator. (English summary) **2005j:47042**
McCormick, William P. *see* **Barbe, Ph.**, 2005c:60070
McVinish, R. *see* **Anh, V. V.**, 2005f:26013
Meda, Stefano *see* **Mauceri, Giancarlo et al.**, 2005j:47042
Mena, Ramsés H. (*with* Walker, Stephen G.) A density function connected with a non-negative self-decomposable random variable. (English summary) **2005f:60043**
Miernowski, Tomasz Central limit theorem for a Gaussian incompressible flow with additional Brownian noise. (English summary) **2005f:60061**
Mishura, Yuliya (*with* Īl′chenko, S. A.) Itô's formula for fractional Brownian fields. (Ukrainian. Ukrainian summary) **2005k:60159**
— Fractional stochastic integration and Black-Scholes equation for fractional Brownian model with stochastic volatility. (English summary) **2005e:60147**
Moon, Hee Jin (*with* Choi, Yong-Kab) A generalization of moduli of continuity for a Gaussian process. (English summary) **2005h:60095**
— *see also* **Choi, Yong-Kab et al.**, 2005g:60043
Mountford, Thomas S. (*with* Nualart, Eulalia) Level sets of multiparameter Brownian motions. (English summary) **2005g:60083**
Nagaev, S. V. (*with* Chebotarev, V. I.) On the accuracy of Gaussian approximation in a Hilbert space. (Russian. Russian summary) **2005g:60014**
— (*with* Chebotarev, V. I.) On the accuracy of Gaussian approximation in Hilbert space [Translation of Mat. Tr. 7 (2004), no. 1, 91–152; MR2068278 (2005g:60014)]. (English summary)
Nazarov, A. I. (*with* Nazarov, Fedor L.) On some property of convex functions and an inequality for the Vandermonde determinants. (English summary) **2005k:26038**
Nazarov, Fedor L. *see* **Nazarov, A. I.**, 2005k:26038
van Neerven, J. M. A. M. *see* **Brzeźniak, Zdzisław**, 2005c:60077
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Nourdin, Ivan *see* **Gradinaru, Mihai**, 2005f:60126
Nualart, David (*with* Rovira, Carles; Tindel, Samy) Probabilistic models for vortex filaments based on fractional Brownian motion. (English summary) **2005e:76068**
— *see also* **Lanjri Zaïdi, N.**, 2005b:60138
Nualart, Eulalia *see* **Mountford, Thomas S.**, 2005g:60083
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Omre, Henning *see* **Kolbjørnsen, Odd**
Opper, Manfred *see* **Cornford, Dan et al.**
Osswald, Horst (*with* Wu, Jiang-Lun) On the continuity of pathwise solutions to Langevin equations in infinite dimensions. (English summary) **2005m:60078**
Ouknine, Youssef *see* **Denis, Laurent[2] et al.**, 2005i:60105
Ould Haye, M. (*with* Philippe, Anne) A noncentral limit theorem for the empirical process of linear sequences with seasonal long memory. (English summary) **2005c:60027**
Pagès, Gilles *see* **Luschgy, Harald**, 2005d:60036
Pantsulaia, Gogi R. On an invariant Borel measure in Hilbert space. (English summary) 2005f:28035
Papanicolaou, George *see* **Fouque, Jean-Pierre et al.**, 2005m:60141
Park, Soon Kyu *see* **Choi, Yong-Kab et al.**, 2005d:60043
Peccati, Giovanni (*with* Yor, Marc) Four limit theorems for quadratic functionals of Brownian motion and Brownian bridge. (English summary) **2005m:60046**
Pepelyaeva, T. V. *see* **Derieva, E. N.**, 2005f:49056
Pérez-Palomares, A. *see* **Ibarrola Muñoz, María del Pilar**, 2005h:62227
Philippe, Anne *see* **Ould Haye, M.**, 2005c:60027
Piterbarg, Vladimir I. *see* **Hüsler, Jürg et al.**, 2005b:60132 *and* 2005h:60291
Poor, H. Vincent *see* **Bayraktar, Erhan et al.**, 2005c:62145 *and* 2005k:91042
Prakasa Rao, B. L. S. Self-similar processes, fractional Brownian motion and statistical inference. (English summary) **2005m:62153**
— Sequential estimation for fractional Ornstein-Uhlenbeck type process. (English summary) **2005d:62127**
— Identification for linear stochastic systems driven by fractional Brownian motion. (English summary) **2005g:62146**
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Ruggeri, Fabrizio *see* **Conti, Pier Luigi et al.**
Ruiz-Medina, M. D. (*with* Anh, V. V.; Angulo, J. M.) Fractional generalized random fields of variable order. (English summary) **2005a:60078**
Rusakov, A. A. Asymptotic Poisson behavior for high level exits by the envelope of a Gaussian stationary random process. **2005a:60050**
Rychlik, Igor *see* **Machado, Ulla**
Saada, Diane *see* **Aletti, Giacomo**, 2005d:60052
Sacerdote, Laura (*with* Zucca, Cristina) On the relationship between interspikes interval distribution and boundary shape in the Ornstein-Uhlenbeck neuronal model. (English summary) (*see* **2005d:92001**)
Sakamoto, Yuji (*with* Yoshida, Nakahiro) Asymptotic expansion under degeneracy. (English summary) **2005b:60141**
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Salopek, Donna Mary *see* **Hu, Yaozhong et al.**, 2005m:60119
Scalas, Enrico *see* **Mainardi, Francesco et al.**
Schlather, Martin *see* **Gneiting, Tilmann**
Schmalfuß, Björn *see* **Maslowski, Bohdan**, 2005g:37100
Schmid, Wolfgang P. (*with* Okhrin, Yarema) Tail behaviour of a general family of control charts. (English summary) **2005e:62142**
Schultz, Hanne Non-commutative polynomials of independent Gaussian random matrices. The real and symplectic cases. (English summary) **2005k:46173**
Seleznev, O. V. *see* **Hüsler, Jürg et al.**, 2005b:60132
Seneta, Eugene Fitting the variance-gamma model to financial data. (English summary) **2005d:62134**
Shafie, K. (*with* Sigal, B.; Siegmund, David O.; Worsley, K. J.) Rotation space random fields with an application to fMRI data. (English summary) **2005i:60098**
Shamarova, È. Yu. Construction of a Brownian sheet with values in a compact Riemannian manifold. (Russian) **2005i:58046**
Shao, Yongzhao *see* **Liu, Xin[7]**, 2005c:62036
Shen, Yi[2] *see* **Jian, Ji Gui et al.**, 2005h:60167
Shi, Zhan *see* **Csáki, Endre et al.**, 2005f:60171
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Sigal, B. *see* **Shafie, K. et al.**, 2005i:60098
Sircar, K. Ronnie *see* **Bayraktar, Erhan et al.**, 2005c:62145 *and* **Fouque, Jean-Pierre et al.**, 2005m:60141
Sjögren, Peter *see* **Mauceri, Giancarlo et al.**, 2005j:47042
Sodin, Mikhail (*with* Tsirelson, Boris) Random complex zeros. I. Asymptotic normality. (English summary) **2005k:60079**
Stan, Aurel *see* **Ngobi, Said**, 2005g:60089
Sudderth, Erik B. (*with* Wainwright, Martin J.; Willsky, Alan S.) Embedded trees: estimation of Gaussian processes on graphs with cycles. (English summary) **2005f:94029**
Sulem, Agnès *see* **Biagini, Francesca et al.**, 2005a:60107
Sung, Hwa Sang (*with* Choi, Yong-Kab) Limit behaviors for the increments of a d-dimensional Gaussian process. (English summary) **2005d:60047**
— (*with* Choi, Yong-Kab; Hwang, Kyo Shin) Moduli of continuity for a d-dimensional Gaussian process. (English summary) **2005k:60102**
Takemura, Akimichi (*with* Kuriki, Satoshi) Tail probability via the tube formula when the critical radius is zero. (English summary) **2005g:60027**
Talarczyk, Anna A note on covariance characterization of some generalized Gaussian random fields. (English summary) **2005b:60105**
— *see also* **Bojdecki, Tomasz et al.**, 2005k:60124
Taniguchi, Setsuo *see* **Ikeda, Nobuyuki**, 2005h:60158
Tarieladze, V. I. *see* **Kwapień, Stanisław**, 2005e:60011
Taylor, Jonathan E. (*with* Adler, Robert J.) Euler characteristics for Gaussian fields on manifolds. (English summary) **2005g:58072**
Teamah, A. A. M. (*with* Bakouch, H. S.) A statistical study on some spectral estimators with different multitapers for continuous-time complex processes. (English summary) **2005j:62190**
Tindel, Samy *see* **Nualart, David et al.**, 2005e:76068; **Bardina, Xavier et al.**, 2005i:82030 *and* 2005m:82065
Tsirelson, Boris *see* **Sodin, Mikhail**, 2005k:60079
Tudor, Ciprian A. Weak convergence to the fractional Brownian sheet in Besov spaces. (English summary) **2005f:60064**
Tupper, P. F. A test problem for molecular dynamics integrators. (English summary) **2005m:82149**
Uemura, Hideaki Tanaka formula for multidimensional Brownian motions. (English summary) **2005e:60188**
van Uitert, Miranda *see* **Mandjes, Michel**, 2005k:60290
Viot, M. *see* **Kleptsyna, M. L. et al.**, 2005j:60083
Vitale, Richard A. A question of geometry and probability. (English summary) **2005j:52012**
Volovich, Yaroslav Interacting stochastic process and renormalization theory. (English summary) (*see* **2005c:81006**)
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Walker, Stephen G. *see* **Mena, Ramsés H.**, 2005f:60043
Wallner, Naomi *see* **Biagini, Francesca et al.**, 2005a:60107
Wang, Wen Sheng[3] (*with* Lin, Zheng Yan) Some functional limit theorems for the infinite series of OU processes. (English summary) **2005d:60049**
Wang, Xiao-Tian (*with* Wen, Zhi-Xiong) Poisson fractional processes. (English summary) **2005b:60092**
Wang, Yaohung *see* **Zhang, Li Xin[1] et al.**, 2005b:60081
Weber, Michel Jean Georges *see* **Giuliano Antonini, Rita**, 2005h:60088
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Wschebor, Mario Smoothed analysis of $\kappa(A)$. (English summary) **2005g:15041**
— *see also* **Azaïs, Jean-Marc**, 2005k:15016
Wu, Jiang-Lun *see* **Osswald, Horst**, 2005m:60078
Yan, Litan (*with* Guo, Ying) Convergence of weighted sums of products of random variables with long-range dependence. (English summary) **2005h:60073**
— Maximal inequalities for the iterated fractional integrals. (English summary) **2005j:60049**
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Yoshida, Minoru W. *see* **Al′beverio, S. et al.**, 2005c:81124
Yoshida, Nakahiro *see* **Sakamoto, Yuji**, 2005b:60141
Zhang, Li Xin[1] (*with* Lu, Chuan-rong; Wang, Yaohung) On large increments and liminfs of a two-parameter Gaussian process. (English summary) **2005b:60081**
Zitikis, Ričardas *see* **Davydov, Yu. A.**, (2005g:60006)
Zou, Yu[1] (*with* Ghanem, Roger G.) A multiscale data assimilation with the ensemble Kalman filter. (English summary) **2005i:76090**
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Zvavitch, Artem *see* **Guédon, Olivier**, 2005i:60032

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Barral, Julien (*with* Lévy-Véhel, Jacques) Multifractal analysis of a class of additive processes with correlated non-stationary increments. (English summary) **2005h:60113**

Berthet, Philippe Inner rates of coverage of Strassen type sets by increments of the uniform empirical and quantile processes. (English summary) **2005k:60122**

Boufoussi, Brahim (*with* Dozzi, Marco) On the local time of multiparameter symmetric stable processes. Regularity and limit theorem in Besov spaces. (English summary) **2005h:60114**

Chernyĭ, A. S. Convergence of some integrals associated with Bessel processes. (Russian. Russian summary) **2005b:60101**

Dokuchaev, Nikolai Estimates for distances between first exit times via parabolic equations in unbounded cylinders. (English summary) **2005e:60084**

Dolgopyat, Dmitry (*with* Kaloshin, Vadim Yu.; Koralov, Leonid) Sample path properties of the stochastic flows. (English summary) **2005a:60057**

Dozzi, Marco *see* **Boufoussi, Brahim**, **2005h:60114**

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Furtlehner, Cyril *see* **Fayolle, Guy**, **2005j:60079**

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Kaloshin, Vadim Yu. *see* **Dolgopyat, Dmitry et al.**, **2005a:60057**

Khoshnevisan, Davar (*with* Xiao, Yimin) Additive Lévy processes: capacity and Hausdorff dimension. (English summary) **2005j:60080**

Koralov, Leonid *see* **Dolgopyat, Dmitry et al.**, **2005a:60057**

Kozachenko, Yu. V. (*with* Fedoryanich, T. V.) A criterion for testing hypotheses on the covariance function of Gaussian stationary process. (Ukrainian. Ukrainian summary) **2005i:60075**

— (*with* Yakovenko, T. O.) Stochastic processes in Orlicz spaces. (Ukrainian. English summary) **2005g:60065**

— (*with* Rozora, Ĭ. V.) Accuracy and reliability of modeling random processes in the space $\mathrm{Sub}_{\varphi}(\Omega)$. (Ukrainian. Ukrainian summary) **2005m:60077**

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Lévy-Véhel, Jacques *see* **Barral, Julien**, **2005h:60113**

Manstavičius, Martynas p-variation of strong Markov processes. (English summary) **2005f:60095**

Marcus, Michael B. (*with* Rosiński, Jan) Sufficient conditions for boundedness of moving average processes. (English summary) **2005h:60115**

Osswald, Horst (*with* Wu, Jiang-Lun) On the continuity of pathwise solutions to Langevin equations in infinite dimensions. (English summary) **2005m:60078**

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Wu, Jiang-Lun *see* **Osswald, Horst**, **2005m:60078**

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Items with secondary classifications in 60G17

Adler, Robert J. Gaussian random fields on manifolds. (English summary) **2005i:58043**

— *see also* **Taylor, Jonathan E.**, **2005g:58072**

Al'beverio, S. (*with* Ferrario, B.) Uniqueness of solutions of the stochastic Navier-Stokes equation with invariant measure given by the enstrophy. (English summary) **2005b:60151**

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Anh, V. V. *see* **Ruiz-Medina, M. D. et al.**, **2005a:60078**

Antunes, Nelson (*with* Nunes, Cláudia; Pacheco, António) Functionals of Markovian branching D-BMAPs. (English summary) **2005m:60203**

Ayache, Antoine (*with* Lévy-Véhel, Jacques) On the identification of the pointwise Hölder exponent of the generalized multifractional Brownian motion. (English summary) **2005b:60097**

Basak, Gopal K. (*with* Ho, Kwok-Wah Remus) Level-crossing probabilities and first-passage times for linear processes. (English summary) **2005a:62192**

Bean, Nigel G. (*with* O'Reilly, Małgorzata M.; Taylor, Peter G.) Algorithms for return probabilities for stochastic fluid flows. (English summary) **2005i:60147**

Beffara, Vincent Hausdorff dimensions for SLE_6. (English summary) **2005k:60295**

Benjamini, Itai (*with* Chen, Zhen-Qing; Rohde, Steffen) Boundary trace of reflecting Brownian motions. (English summary) **2005e:60183**

Bhatt, Abhay G. (*with* Karandikar, Rajeeva L.) Martingale problems and path properties of solutions. (English summary) **2005b:60189**

Blanke, Delphine Local Hölder exponent estimation for multivariate continuous time processes. (English summary) **2005b:62067**

Böhm, Volker (*with* Chiarella, Carl) Mean variance preferences, expectations formation, and the dynamics of random asset prices. (English summary) **2005k:91112**

Braverman, Michael Tail probabilities of subadditive functionals on stable processes with continuous and discrete time. (English summary) **2005e:60039**

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Csáki, Endre (*with* Hu, Yueyun) On the ranked excursion heights of a Kiefer process. (English summary) **2005f:60092**

Doney, R. A. (*with* Maller, Ross A.) Moments of passage times for Lévy processes. (English and French summaries) **2005h:60137**

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— Small-time behaviour of Lévy processes. (English summary) **2005f:60108**

Dubédat, Julien $\mathrm{SLE}(\kappa, \rho)$ martingales and duality. (English summary) **2005j:60180**

Etienne, M. P. (*with* Vallois, Pierre) Approximation of the distribution of the supremum of a centered random walk. Application to the local score. (English summary) **2005i:60088**

Ferrario, B. *see* **Al'beverio, S.**, **2005b:60151**

Fischer, Markus (*with* Imkeller, Peter) A two-state model for noise-induced resonance in bistable systems with delay. (English summary)

Haas, Bénédicte Regularity of formation of dust in self-similar fragmentations. (English and French summaries) **2005d:60117**

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Lachal, Aimé Application de la théorie des excursions à l'intégrale du mouvement brownien. (English and French summaries) [Application of the theory of excursions to the integral of Brownian motion] **2005g:60128**

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Li, Wenbo V. (*with* Shao, Qi-Man) Lower tail probabilities for Gaussian processes. (English summary) **2005f:60094**

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Mörters, Peter (*with* Shieh, Narn-Rueih) On the multifractal spectrum of the branching measure on a Galton-Watson tree. (English summary) **2005k:60275**

Mountford, Thomas S. Brownian sheet local time and bubbles. (English summary) **2005a:60055**

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Ruiz-Medina, M. D. (*with* Anh, V. V.; Angulo, J. M.) Fractional generalized random fields of variable order. (English summary) **2005a:60078**

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Stoev, Stilian (*with* Taqqu, Murad S.) Stochastic properties of the linear multifractional stable motion. (English summary) **2005m:60079**

Sung, Hwa Sang (*with* Choi, Yong-Kab; Hwang, Kyo Shin) Moduli of continuity for a d-dimensional Gaussian process. (English summary) **2005k:60102**

Taqqu, Murad S. *see* **Stoev, Stilian**, **2005m:60079**

Taylor, Jonathan E. (*with* Adler, Robert J.) Euler characteristics for Gaussian fields on manifolds. (English summary) **2005g:58072**

Taylor, Peter G. *see* **Bean, Nigel G. et al.**, **2005i:60147**

Tindel, Samy (*with* Tudor, Ciprian A.; Viens, Frederi) Sharp Gaussian regularity on the circle, and applications to the fractional stochastic heat equation. (English summary) **2005i:60073**

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Vallois, Pierre *see* **Etienne, M. P.**, **2005i:60088**

Viens, Frederi *see* **Tindel, Samy et al.**, **2005i:60073**

Wang, Wen Sheng[3] Fractal nature of the functional laws of logarithm of a fractional Brownian motion. (English summary) **2005d:60062**

Wu, Jang-Mei Symmetric stable processes stay in thick sets. (English summary) **2005a:60073**

Xiao, Yimin *see* **Meerschaert, Mark M.**, **2005k:60238**

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Ayache, Antoine Hausdorff dimension of the graph of the fractional Brownian sheet. (English summary) **2005h:60106**
— (*with* Lévy-Véhel, Jacques) On the identification of the pointwise Hölder exponent of the generalized multifractional Brownian motion. (English summary) **2005b:60097**
Barral, Julien Poissonian products of random weights: uniform convergence and related measures. (English summary) **2005c:60062**
— (*with* Mandelbrot, Benoît B.) Introduction to infinite products of independent random functions (Random multiplicative multifractal measures. I). (English summary) **2005i:28013**
— (*with* Mandelbrot, Benoît B.) Non-degeneracy, moments, dimension, and multifractal analysis for random multiplicative measures (Random multiplicative multifractal measures. II). (English summary) **2005i:28014**
— Techniques for the study of infinite products of independent random functions (Random multiplicative multifractal measures. III). (English summary) **2005i:28015**
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Ben Alaya, Mohamed (*with* Huillet, Thierry) On max-multiscaling distributions as extended max-semistable ones. (English summary) **2005h:60046**
Benassi, Albert (*with* Cohen, Serge; Istas, Jacques) On roughness indices for fractional fields. (English summary) **2005c:60066**
Berzin, Corinne (*with* León, José R.) Convergence in fractional models and applications. (English summary) **2005k:60071**
Bianchi, Sergio A new distribution-based test of self-similarity. (English summary) **2005d:62137**
Borgnat, Pierre (*with* Amblard, Pierre-Olivier; Flandrin, Patrick) Scale invariances and Lamperti transformations for stochastic processes. (English summary) **2005i:82054**
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Chong, Kihun (*with* Song, Ha Yoon; Noh, Sam H.) Traffic characterization of the web server attacks of worm viruses. (English summary) **2005m:62095**
Chow, Winston C. (*with* Wegman, Edward J.) Modeling continuous time series driven by fractional Gaussian noise. (English summary) **2005k:60176**
Cohen, Serge *see* **Benassi, Albert et al.**, **2005c:60066**
Dzhaparidze, Kacha (*with* van Zanten, J. H.) A series expansion of fractional Brownian motion. (English summary) **2005i:60065**
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Flandrin, Patrick (*with* Gonçalvès, Paulo) Empirical mode decompositions as data-driven wavelet-like expansions. (English summary)
— *see also* **Borgnat, Pierre et al.**, **2005i:82054**
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Inoue, Akihiko *see* **Anh, V. V.**, **2005i:60078**
Istas, Jacques *see* **Benassi, Albert et al.**, **2005c:60066**
Jeganathan, P. Convergence of functionals of sums of r.v.s to local times of fractional stable motions. (English summary) **2005d:60038**
Jona-Lasinio, Giovanni Self-similar random fields: from Kolmogorov to renormalization group. (English summary) (*see* **2005a:00023**)
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Maejima, Makoto (*with* Yamamoto, Kenji) Long-memory stable Ornstein-Uhlenbeck processes. (English summary) **2005c:60076**
Mainardi, Francesco Applications of integral transforms in fractional diffusion processes. (English summary) **2005k:44002**
— (*with* Pagnini, Gianni; Saxena, Ram Kishore) Fox H functions in fractional diffusion. (English summary) **2005m:26008**
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Mercik, Szymon (*with* Weron, Karina; Burnecki, Krzysztof; Weron, Aleksander) Enigma of self-similarity of fractional Lévy stable motions. (English summary) **2005b:82068**
Mīshura, Yulīya (*with* Nualart, David) Weak solutions for stochastic differential equations with additive fractional noise. (English summary) **2005k:60183**
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Stoev, Stilian (*with* Taqqu, Murad S.) Asymptotic self-similarity and wavelet estimation for long-range dependent fractional autoregressive integrated moving average time series with stable innovations. (English summary) **2005k:62217**
Szczotka, Władysław (*with* Woyczyński, Wojbor A.) Distributions of suprema of Lévy processes via the heavy traffic invariance principle. (English summary) **2005h:60105**
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Taqqu, Murad S. *see* **Stoev, Stilian**, **2005k:62217**
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— Nonclassical stochastic flows and continuous products. (English summary) **2005m:60080**
Vincent-Smith, G. F. *see* **Pathmanathan, S.**, **2005k:60126**
Zaitseva, Ludmila L. On a multidimensional Brownian motion with partly reflecting membrane on a hyperplane. (English summary) **2005i:60077**

Items with secondary classifications in 60G20

Angulo, J. M. *see* **Ruiz-Medina, M. D. et al.**, **2005h:60149**

Anh, V. V. *see* **Ruiz-Medina, M. D. et al., 2005h:60149**
Aryasova, Olga V. (*with* Portenko, Mikola Ivanovich) Two-dimensional Brownian motion with membranes situated on the sides of an angle. (English summary) **2005h:60243**
Atiya, Amir F. (*with* Metwally, Steve A. K.) Efficient estimation of first passage time density function for jump-diffusion processes. (English summary)
Bojdecki, Tomasz (*with* Gorostiza, Luis G.; Talarczyk, Anna) Sub-fractional Brownian motion and its relation to occupation times. (English summary) **2005k:60124**
Dawson, Donald A. (*with* Li, Zeng Hu; Schmuland, Byron; Sun, Wei[3]) Generalized Mehler semigroups and catalytic branching processes with immigration. (English summary) **2005d:60122**
Gorostiza, Luis G. *see* **Bojdecki, Tomasz et al., 2005k:60124**
Kelbert, M. Ya. (*with* Leonenko, N. N.; Ruiz-Medina, M. D.) Fractional random fields associated with stochastic fractional heat equations. (English summary) **2005m:60109**
Kulik, A. M. On the solution of a one-dimensional stochastic differential equation with a singular drift coefficient. (Russian. English and Ukrainian summaries) **2005j:60119**
Leonenko, N. N. *see* **Kelbert, M. Ya. et al., 2005m:60109**
Li, Zeng Hu *see* **Dawson, Donald A. et al., 2005d:60122**
Liu, Guo Xin[1] Piecewise deterministic Markov processes and semi-dynamic systems. (English summary) **2005d:60118**
Lund, Robert (*with* McCormick, William P.; Xiao, Yuan Hui[1]) Limiting properties of Poisson shot noise processes. (English summary) **2005e:60088**
McCormick, William P. *see* **Lund, Robert et al., 2005e:60088**
Metwally, Steve A. K. *see* **Atiya, Amir F.**
Portenko, Mikola Ivanovich *see* **Aryasova, Olga V., 2005h:60243**
Ruiz-Medina, M. D. (*with* Angulo, J. M.; Anh, V. V.) Fractional random fields on domains with fractal boundary. (English summary) **2005h:60149**
— *see also* **Kelbert, M. Ya. et al., 2005m:60109**
Schmuland, Byron *see* **Dawson, Donald A. et al., 2005d:60122**
Sun, Wei[3] *see* **Dawson, Donald A. et al., 2005d:60122**
Swift, Randall J. Classes of harmonizable isotropic random fields. (English summary) **2005e:60108**
Talarczyk, Anna *see* **Bojdecki, Tomasz et al., 2005k:60124**
Toom, André Non-ergodicity in a 1-D particle process with variable length. (English summary) **2005g:82091**
Xiao, Yuan Hui[1] *see* **Lund, Robert et al., 2005e:60088**

60G25 Prediction theory [see also 62M20]

Anh, V. V. (*with* Inoue, Akihiko) Prediction of fractional Brownian motion with Hurst index less than 1/2. (English summary) **2005i:60078**
Boguslavskiĭ, I. A. Estimation of a matrix of intensities for model of Markov process. (English summary)
Inoue, Akihiko *see* **Anh, V. V., 2005i:60078**
Lund, Robert (*with* McCormick, William P.; Xiao, Yuan Hui[1]) Limiting properties of Poisson shot noise processes. (English summary) **2005e:60088**
McCormick, William P. *see* **Lund, Robert et al., 2005e:60088**
Urbanik, K. Musielak-Orlicz spaces and prediction problems. (English summary) **2005m:60081**
Xiao, Yuan Hui[1] *see* **Lund, Robert et al., 2005e:60088**

Items with secondary classifications in 60G25

Bábela, Ján Middle term predictions of time series in the models with external information about future. (English summary) **2005c:62148**
Baek, Jong Il *see* **Chung, Sung-Mo et al.**
Chung, Sung-Mo (*with* Park, Sung Tae; Baek, Jong Il) On the weak laws for weighted sums of dependent random variables. (English summary)
Farshidi, J. *see* **Hurd, Harry et al., 2005f:60118**
Gualtierotti, A. F. Skew-normal processes as models for random signals corrupted by Gaussian noise. (English summary)
Hurd, Harry (*with* Kallianpur, G.; Farshidi, J.) Correlation and spectral theory for periodically correlated random fields indexed on $\mathbf{Z}^2$. (English summary) **2005f:60118**
Jakubowski, Adam An almost sure approximation for the predictable process in the Doob-Meyer decomposition theorem. (English summary) **2005m:60087**
Jin, Yi Hui *see* **Wang, Dong et al., 2005e:93157**
Kallianpur, G. *see* **Hurd, Harry et al., 2005f:60118**
Merhav, Neri *see* **Weissman, Tsachy, 2005d:62154**
Morvai, Gusztáv (*with* Weiss, Benjamin) Forecasting for stationary binary time series. (English summary) **2005c:62064**
Park, Sung Tae *see* **Chung, Sung-Mo et al.**
Ranocha, Pavel Efficiency of some algorithms for prediction in finite stationary time series. (English summary)
Wang, Dong (*with* Zhou, Dong Hua; Jin, Yi Hui) An extended nonlinear state predictor for a class of nonlinear time delay systems. (English summary) **2005e:93157**
Weiss, Benjamin *see* **Morvai, Gusztáv, 2005c:62064**
Weissman, Tsachy (*with* Merhav, Neri) Universal prediction of random binary sequences in a noisy environment. (English summary) **2005d:62154**
Zhou, Dong Hua *see* **Wang, Dong et al., 2005e:93157**

60G30 Continuity and singularity of induced measures

Items with secondary classifications in 60G30

Barral, Julien (*with* Lévy-Véhel, Jacques) Multifractal analysis of a class of additive processes with correlated non-stationary increments. (English summary) **2005h:60113**
Fernique, Xavier Extension du théorème de Cameron-Martin aux translations aléatoires. II. Intégrabilité des densités. (English summary) [Extension of the Cameron-Martin theorem to random translations. II. Integrability of the densities] **2005f:60093**
Gualtierotti, A. F. Skew-normal processes as models for random signals corrupted by Gaussian noise. (English summary)
Lévy-Véhel, Jacques *see* **Barral, Julien, 2005h:60113**
Platen, Eckhard Pricing and hedging for incomplete jump diffusion benchmark models. (English summary) **2005f:91075**

60G35 Applications (signal detection, filtering, etc.) [see also 62M20, 93E10, 93E11, 94Axx]

Gawarecki, L. (*with* Mandrekar, V.) Non-linear filtering with Gaussian martingale noise: Kalman filter with fBm noise. (English summary) **2005m:60082**
Kleptsyna, M. L. (*with* Le Breton, A.; Viot, M.) Asymptotically optimal filtering in linear systems with fractional Brownian noises. (English summary) **2005j:60083**
Kozachenko, Yu. V. (*with* Slivka, G. Ī.) Justification of the Fourier method for a hyperbolic equation with random initial conditions. (Ukrainian. Ukrainian summary) **2005k:60127**
Le Breton, A. *see* **Kleptsyna, M. L. et al., 2005j:60083**
Mandrekar, V. *see* **Gawarecki, L., 2005m:60082**
Maskell, Simon Joint tracking of manoeuvring targets and classification of their manoeuvrability. (English summary)
Meyer-Brandis, Thilo (*with* Proske, Frank) Explicit solution of a non-linear filtering problem for Lévy processes with application to finance. (English summary) **2005e:60089**
Proske, Frank *see* **Meyer-Brandis, Thilo, 2005e:60089**
Slivka, G. Ī. *see* **Kozachenko, Yu. V., 2005k:60127**
Viot, M. *see* **Kleptsyna, M. L. et al., 2005j:60083**
Xiong, Jie (*with* Zhao, Xingqiu) Nonlinear filtering with fractional Brownian motion noise. (English summary) **2005k:60128**
Zhao, Xingqiu *see* **Xiong, Jie, 2005k:60128**

Items with secondary classifications in 60G35

Aggoun, Lakhdar (*with* Elliott, Robert J.) ★ Measure theory and filtering. **2005k:60004**
Alvarez, Juan (*with* Hajek, Bruce) A queue with semiperiodic traffic. (English summary) **2005m:60069**
Anh, V. V. (*with* Inoue, Akihiko) Prediction of fractional Brownian motion with Hurst index less than 1/2. (English summary) **2005i:60078**
Back, Kerry Incomplete and asymmetric information in asset pricing theory. **2005k:91141**
Basin, Michael V. (*with* Martinez-Zuñiga, Rodolfo) Optimal filtering for linear systems with multiple observation delays. (English summary) **2005f:93164**
Bereza, V. Yu. (*with* Yasins′kiĭ, V. K.) The Kalman-Bucy filter for linear stochastic dynamical systems with discontinuous trajectories. (Russian. English and Ukrainian summaries) **2005a:93150**
Borisov, Andrei V. Analysis and estimation of the states of special Markov jump processes. II. Optimal filtering in the presence of Wiener noise. (Russian. Russian summary) **2005j:60157**
Bröcker, Jochen (*with* Parlitz, Ulrich) Analyzing communication schemes using methods from nonlinear filtering. (English summary) **2005f:94002**
Bugallo, Mónica F. *see* **Míguez, Joaquín et al., 2005h:93167**
Caballero-Águila, Raquel *see* **Nakamori, Seiichi et al., 2005m:62179**
Carin, Lawrence *see* **Dong, Yanting, 2005g:94056**
Charalambous, C. D. (*with* Elliott, Robert J.; Krishnamurthy, Vikram) Conditional moment generating functions for integrals and stochastic integrals. (English summary) **2005c:93099**
Chen, Rong[1] *see* **Guo, Dong et al., 2005h:94026**
Cheung-Mon-Chan, Pascal (*with* Moulines, Éric) Global sampling for sequential filtering over discrete state space. (English summary) **2005h:94025**
Chigansky, Pavel (*with* Liptser, Robert) Stability of nonlinear filters in nonmixing case. (English summary) **2005h:62265**
Chorin, Alexandre J. (*with* Krause, Paul) Dimensional reduction for a Bayesian filter. (English summary) **2005m:93150**
Del Moral, Pierre ★ Feynman-Kac formulae. **2005f:60003**
Dëmin, N. S. (*with* Safronova, Irina; Rozhkova, Svetlana) About structure of Shannon information amount for joint filtering and extrapolation problem by continuous-discrete memory observations. (English and Lithuanian summaries) **2005g:94033**
Djurić, Petar M. *see* **Míguez, Joaquín et al., 2005h:93167**
Dong, Yanting (*with* Carin, Lawrence) Quantization of multiaspect scattering data: target classification and pose estimation. (English summary) **2005g:94056**
Douc, Randal (*with* Guillin, Arnaud; Najim, J.) Moderate deviations for particle filtering. (English summary) **2005k:60086**
Doucet, Arnaud *see* **Punskaya, Elena et al.**
Elliott, Robert J. *see* **Charalambous, C. D. et al., 2005c:93099** *and* **Aggoun, Lakhdar, 2005k:60004**
Faghihi, M. R. *see* **Vahidi-ASL, Mohammad Q.**
Fitzgerald, William J. *see* **Punskaya, Elena et al.**
Ghanem, Roger G. *see* **Zou, Yu[1], 2005i:76090**
Glasserman, Paul (*with* Yu, Bin[3]) Number of paths versus number of basis functions in American option pricing. (English summary) **2005j:60086**
Grigoriu, Mircea Dynamic systems with Poisson white noise. (English summary) **2005h:60201**
Guillin, Arnaud *see* **Douc, Randal et al., 2005k:60086**
Guo, Dong (*with* Wang, Xiaodong[2]; Chen, Rong[1]) Multilevel mixture Kalman filter. (English summary) **2005h:94026**
Hager, William W. *see* **Jiang, Yi[1] et al., 2005h:15045**
Hajek, Bruce *see* **Alvarez, Juan, 2005m:60069**
Hermoso Carazo, Aurora *see* **Nakamori, Seiichi et al., 2005j:62192** *and* **2005m:62179**
Heyde, Christopher C. (*with* Leonenko, N. N.) Student processes. (English summary) **2005m:62161**
Hinamoto, Takao *see* **Ishizaki, Naoya et al., 2005e:93155**
Inoue, Akihiko *see* **Anh, V. V., 2005i:60078**
Ishizaki, Naoya (*with* Muneyasu, Mitsuji; Hinamoto, Takao) A new realization of 2-D adaptive separable-denominator state-space filters based on DLMS algorithm suitable for parallel processing. (English summary) **2005e:93155**
Ismail, Abdulla *see* **Mahmoud, Magdi S. et al., 2005h:93166**
Jiang, Yi[1] (*with* Hager, William W.; Li, Jian[4]) The geometric mean decomposition. (English summary) **2005h:15045**

Jim'enez-L'opez, Jos'e Domingo *see* **Nakamori, Seiichi et al., 2005j:62192** *and* **2005m:62179**
Kallianpur, G. Nonlinear stochastic filtering: a brief survey. (Russian. Russian summary) **2005i:62125**
Katsikas, Sokratis K. *see* **Moussas, Vassilios C. et al.**
Katulev, A. N. (*with* Kuznetsov, V. N.; Malevinskiĭ, M. F.; Solomakha, G. M.) A two-dimensional polynomial filter. (Russian. Russian summary) **2005f:94009**
Krause, Paul *see* **Chorin, Alexandre J., 2005m:93150**
Krishnamurthy, Vikram *see* **Charalambous, C. D. et al., 2005c:93099**
Kuznetsov, V. N. *see* **Katulev, A. N. et al., 2005f:94009**
Lacaze, Bernard Matched shapes for uniform sampling. (English summary) **2005h:62266**
Lainiotis, Demetrios G. *see* **Moussas, Vassilios C. et al.**
Leonenko, N. N. *see* **Heyde, Christopher C., 2005m:62161**
Lévy-Véhel, Jacques *see* **Seuret, Stéphane, 2005a:46055**
Li, Jian[4] *see* **Jiang, Yi[1] et al., 2005h:15045**
Lin, Daming (*with* Makis, Viliam) Filters and parameter estimation for a partially observable system subject to random failure with continuous-range observations. (English summary) **2005m:60199**
Linares Pérez, Josefa *see* **Nakamori, Seiichi et al., 2005j:62192** *and* **2005m:62179**
Ling, Yibei (*with* Mi, Jie) An optimal trade-off between content freshness and refresh cost. (English summary) **2005i:94026**
Liptser, Robert *see* **Chigansky, Pavel, 2005h:62265**
Liu, Yuan-jin *see* **Yin, Gang George et al., 2005e:93158**
Mahmoud, Magdi S. (*with* Shi, Peng; Ismail, Abdulla) Robust Kalman filtering for discrete-time Markovian jump systems with parameter uncertainty. (English summary) **2005h:93166**
Makis, Viliam *see* **Lin, Daming, 2005m:60199**
Malevinskiĭ, M. F. *see* **Katulev, A. N. et al., 2005f:94009**
Martinez-Zuñiga, Rodolfo *see* **Basin, Michael V., 2005f:93164**
McDonald, David R. ★ Elements of applied probability for engineering, mathematics and systems science. **2005f:60002**
Mi, Jie *see* **Ling, Yibei, 2005i:94026**
Míguez, Joaquín (*with* Bugallo, Mónica F.; Djurić, Petar M.) A new class of particle filters for random dynamic systems with unknown statistics. (English summary) **2005h:93167**
Moulines, Éric *see* **Cheung-Mon-Chan, Pascal, 2005h:94025**
Moussas, Vassilios C. (*with* Katsikas, Sokratis K.; Lainiotis, Demetrios G.) Adaptive estimation of FCG using nonlinear state-space models. (English summary)
Muneyasu, Mitsuji *see* **Ishizaki, Naoya et al., 2005e:93155**
Najim, J. *see* **Douc, Randal et al., 2005k:60086**
Nakamori, Seiichi New design of fixed-lag smoother using covariance information in linear discrete-time stochastic systems. (English summary) **2005j:93077**
— (*with* Caballero-Águila, Raquel; Hermoso Carazo, Aurora; Jim'enez-L'opez, Jos'e Domingo; Linares Pérez, Josefa) Quadratic estimation from non-independent uncertain observations with coloured noise. **2005m:62179**
— (*with* Hermoso Carazo, Aurora; Jim'enez-L'opez, Jos'e Domingo; Linares Pérez, Josefa) Chandrasekhar-type recursive Wiener filter using covariance information in linear discrete-time wide-sense stationary stochastic systems. (English summary) **2005j:62192**
— (*with* Hermoso Carazo, Aurora; Jim'enez-L'opez, Jos'e Domingo; Linares Pérez, Josefa) Filtering of signals transmitted in multichannel from Chandrasekhar and Riccati recursions.
Øksendal, Bernt K. Optimal control of stochastic partial differential equations. (English summary) **2005k:93240**
Oudjane, Nadia (*with* Rubenthaler, Sylvain) Stability and uniform particle approximation of nonlinear filters in case of non ergodic signals. (English summary) **2005m:93153**
Parlitz, Ulrich *see* **Bröcker, Jochen, 2005f:94002**
Pathmanathan, S. (*with* Vincent-Smith, G. F.) Fock space and the Poisson process. **2005k:60126**
Punskaya, Elena (*with* Doucet, Arnaud; Fitzgerald, William J.) Particle filtering for joint symbol and code delay estimation in DS spread spectrum systems in multipath environment. (English summary)
Rabehasaina, Landy (*with* Sericola, Bruno) Stability analysis of second-order fluid flow models in a stationary ergodic environment. (English summary) **2005b:60246**
Rozhkova, Svetlana *see* **Dëmin, N. S. et al., 2005g:94033**
Rubenthaler, Sylvain *see* **Oudjane, Nadia, 2005m:93153**
Safronova, Irina *see* **Dëmin, N. S. et al., 2005g:94033**
Sericola, Bruno *see* **Rabehasaina, Landy, 2005b:60246**
Seuret, Stéphane (*with* Lévy-Véhel, Jacques) A time domain characterization of 2-microlocal spaces. (English summary) **2005a:46055**
Shi, Peng *see* **Mahmoud, Magdi S. et al., 2005h:93166**
Solomakha, G. M. *see* **Katulev, A. N. et al., 2005f:94009**
Tovstik, T. M. Filtration of stationary processes with rational spectral density. (English summary)
Vahidi-ASL, Mohammad Q. (*with* Faghihi, M. R.) Analysis of spatial point patterns by kernel identification. (English and Persian summaries)
Vincent-Smith, G. F. *see* **Pathmanathan, S., 2005k:60126**
Wang, Xiaodong[2] *see* **Guo, Dong et al., 2005h:94026**
Wildi, Marc ★ Signal extraction. **2005k:62005**
Wu, Fei[2] (*with* Yang, Tian Xing) On the research and the application of Monte-Carlo stochastic method and integral interpolation method for solving groundwater problems. (Chinese. English and Chinese summaries)
Wu, Wei Biao Fourier transforms of stationary processes. (English summary) **2005h:60072**
Yang, Tian Xing *see* **Wu, Fei[2]**
Yasins'kiĭ, V. K. *see* **Bereza, V. Yu., 2005a:93150**
Yin, Gang George (*with* Zhang, Qing[1]; Liu, Yuan-jin) Discrete-time approximation of Wonham filters. (English summary) **2005e:93158**
Yu, Bin[3] *see* **Glasserman, Paul, 2005j:60086**
Zhang, Qing[1] *see* **Yin, Gang George et al., 2005e:93158**
Zou, Yu[1] (*with* Ghanem, Roger G.) A multiscale data assimilation with the ensemble Kalman filter. (English summary) **2005i:76090**

Items listed otherwise than by author
Lecture Notes in Economics and Mathematical Systems *see* **Wildi, Marc, 2005k:62005**

60G40 Stopping times; optimal stopping problems; gambling theory [see also 62L15, 91A60]

Alili, Larbi (*with* Patie, Pierre) On the first crossing times of a Brownian motion and a family of continuous curves. (English and French summaries)
Allaart, Pieter C. Optimal stopping rules for correlated random walks with a discount. (English summary) **2005c:60044**
— Stopping the maximum of a correlated random walk, with cost for observation. (English summary) **2005j:60084**
— An application of prophet regions to optimal stopping with a random number of observations. (English summary) **2005i:60079**
Arkin, Vadim I. (*with* Slastnikov, A. D.) Optimal stopping problem and investment models. (English summary) **2005e:60090**
Assaf, David (*with* Samuel-Cahn, Ester) Why is one choice different? (English summary) **2005j:60085**
Avram, Florin (*with* Pistorius, Martijn R.; Usabel, Miguel) The two barriers ruin problem via a Wiener Hopf decomposition approach. (English summary) **2005h:60118**
Bally, Vlad (*with* Pagès, Gilles) A quantization algorithm for solving multi-dimensional discrete-time optimal stopping problems. (English summary) **2005f:60096**
Bassan, Bruno *see* **Ceci, Claudia, 2005h:60120**
Borovkov, A. A. On the asymptotics of distributions of first-passage times. II. (Russian. Russian summary) **2005d:60064**
Bruss, F. Thomas (*with* Delbaen, Freddy) A central limit theorem for the optimal selection process for monotone subsequences of maximum expected length. (English summary) **2005h:60119**
Ceci, Claudia (*with* Bassan, Bruno) Mixed optimal stopping and stochastic control problems with semicontinuous final reward for diffusion processes. (English summary) **2005h:60120**
Chen, Robert W. (*with* Shepp, Larry A.; Zame, Alan) A bold strategy is not always optimal in the presence of inflation. (English summary) **2005a:60059**
Danelia, Akaki (*with* Dochviri, Besarion; Shashiashvili, Malkhaz) New type energy estimates for multidimensional obstacle problems. (English and Georgian summaries) **2005d:60065**
De Iorio, Maria (*with* Griffiths, Robert C.) Importance sampling on coalescent histories. I (English summary) **2005b:60106**
— (*with* Griffiths, Robert C.) Importance sampling on coalescent histories. II. Subdivided population models. (English summary) **2005b:60107**
Delbaen, Freddy *see* **Bruss, F. Thomas, 2005h:60119**
Dochviri, Besarion *see* **Danelia, Akaki et al., 2005d:60065**
Domanskiĭ, V. K. Dynkin's games with randomized optimal stopping rules. (English summary) **2005h:60121**
Ekström, Erik Properties of American option prices. (English summary) **2005h:60122**
Ferguson, Thomas S. Selection by committee. (English summary) (*see* **2005g:91009**)
Fuh, Cheng-Der Asymptotic operating characteristics of an optimal change point detection in hidden Markov models. (English summary) **2005h:60123**
Glasserman, Paul (*with* Yu, Bin[3]) Number of paths versus number of basis functions in American option pricing. (English summary) **2005j:60086**
Glickman, Hagit Cooperative stopping rules in multivariate problems. (English summary) **2005m:60083**
Gnedin, A. V. Objectives in the best-choice problems. (English summary)
Griffiths, Robert C. *see* **De Iorio, Maria, 2005b:60106** *and* **2005b:60107**
Gushchin, Alexander A. (*with* Valkeila, E.) Approximations and limit theorems for likelihood ratio processes in the binary case. (English summary) **2005a:60060**
Hsiau, Shoou-Ren *see* **Yang, Jiing-Ru, 2005a:60063**
Huang, Peng[2] Asymptotic design of general triangular stopping boundaries for Brownian motion. (English summary) **2005k:60129**
Irle, A. (*with* Paulsen, Volkert) Solving problems of optimal stopping with linear costs of observations. (English summary) **2005j:60087**
Kösters, Holger Difference prophet inequalities for [0, 1]-valued i.i.d. random variables with cost for observations. (English summary) **2005k:60130**
— A note on multiple stopping rules. (English summary) **2005b:60108**
Kühne, Robert (*with* Rüschendorf, Ludger) Optimal stopping and cluster point processes. (English summary) **2005i:60080**
Kurano, Masami *see* **Yoshida, Yuji et al., (2005g:91009)**
Kusuoka, Shigeo Approximation of expectation of diffusion processes based on Lie algebra and Malliavin calculus. (English summary) **2005h:60124**
Laraki, Rida (*with* Sudderth, William D.) The preservation of continuity and Lipschitz continuity by optimal reward operators. (English summary) **2005e:60091**
Lippman, Steven A. *see* **Ryan, Reade, 2005i:60081**
Mazza, Christian (*with* Rullière, Didier) A link between wave governed random motions and ruin processes. (English summary) **2005h:60125**
Meilijson, Isaac The time to a given drawdown in Brownian motion. (English summary) **2005b:60109**
Nakagami, Jun-ichi *see* **Yoshida, Yuji et al., (2005g:91009)**
Novikov, Aleksandr A. (*with* Shiryaev, Albert N.) On an effective case of the solution of the optimal stopping problem for random walks. (Russian. Russian summary) **2005m:60084**
Obłój, Jan (*with* Yor, Marc) An explicit Skorokhod embedding for the age of Brownian excursions and Azéma martingale. (English summary) **2005b:60110**
Ohnishi, Masamitsu An optimal stopping problem for a geometric Brownian motion with Poissonian jumps. (English summary) **2005d:60066**
Pagès, Gilles *see* **Bally, Vlad, 2005f:60096**
Patie, Pierre *see* **Alili, Larbi**
Paulsen, Volkert *see* **Irle, A., 2005j:60087**
Pedersen, Jesper Lund Optimal stopping problems for time-homogeneous diffusions: a review. (English summary) (*see* **2005f:60007**)
Pistorius, Martijn R. *see* **Avram, Florin et al., 2005h:60118**

Ramsey, David (*with* Szajowski, Krzysztof) Bilateral approach to the secretary problem. (English summary) (*see* **2005g:91009**)
Rocha, A. L. (*with* Stern, F.) The asymmetric n-player gambler's ruin problem with equal initial fortunes. (English summary) **2005d:60067**
Rullière, Didier *see* **Mazza, Christian**, **2005h:60125**
Rüschendorf, Ludger *see* **Kühne, Robert**, **2005i:60080**
Ryan, Reade (*with* Lippman, Steven A.) Optimal exit from a project with noisy returns. (English summary) **2005i:60081**
Sakaguchi, Minoru Optimal stopping games where players have weighted privilege. (English summary) (*see* **2005g:91009**)
Samuel-Cahn, Ester *see* **Assaf, David**, **2005j:60085**
Samuels, Stephen M. Why do these quite different best-choice problems have the same solutions? (English summary) **2005f:60097**
Shashiashvili, Malkhaz *see* **Danelia, Akaki et al.**, **2005d:60065**
Shepp, Larry A. *see* **Chen, Robert W. et al.**, **2005a:60059**
Shiryaev, Albert N. *see* **Novikov, Aleksandr A.**, **2005m:60084**
Shmaya, Eran (*with* Solan, Eilon) Two-player nonzero-sum stopping games in discrete time. (English summary) **2005g:60067**
Slastnikov, A. D. *see* **Arkin, Vadim I.**, **2005e:60090**
Solan, Eilon (*with* Vieille, Nicolas) Stopping games—recent results. (English summary) (*see* **2005g:91009**)
— *see also* **Shmaya, Eran**, **2005g:60067**
Stern, F. *see* **Rocha, A. L.**, **2005d:60067**
Suchwałko, Artur (*with* Szajowski, Krzysztof) On Bruss' stopping problem with general gain function. **2005k:60131**
Sudderth, William D. *see* **Laraki, Rida**, **2005e:60091**
Szajowski, Krzysztof *see* **Suchwałko, Artur**, **2005k:60131** *and* **Ramsey, David**, (**2005g:91009**)
Tanaka, Teruo[1] Discrete time multi-parameter optimal stopping problems with multiple plays and switching costs. (English summary) **2005a:60061**
— Optimal multiple stopping problems for discrete time multiparameter stochastic processes. (English summary) **2005a:60062**
— The accessibility and multiple filtration structure for discrete time multiparameter optimal multiple stopping problems. (English summary) **2005e:60092**
Touzi, Nizar (*with* Vieille, Nicolas) Continuous-time Dynkin games with mixed strategies. (English summary) **2005e:60093**
Usabel, Miguel *see* **Avram, Florin et al.**, **2005h:60118**
Valkeila, E. *see* **Gushchin, Alexander A.**, **2005a:60060**
Vieille, Nicolas *see* **Touzi, Nizar**, **2005e:60093** *and* **Solan, Eilon**, (**2005g:91009**)
Wang, Tan (*with* Wirjanto, Tony S.) The role of risk and risk aversion in an individual's migration decision. (English summary) **2005c:60045**
Wirjanto, Tony S. *see* **Wang, Tan**, **2005c:60045**
Yang, Jiing-Ru (*with* Hsiau, Shoou-Ren) On Markov-dependent parking problems. (English summary) **2005a:60063**
Yasuda, Masami *see* **Yoshida, Yuji et al.**, (**2005g:91009**)
Yin, Chuan Cun *see* **Zhao, Xiang Hua**
Yor, Marc *see* **Obłój, Jan**, **2005b:60110**
Yoshida, Yuji (*with* Yasuda, Masami; Kurano, Masami; Nakagami, Jun-ichi) Stopping game problem for dynamic fuzzy systems. (English summary) (*see* **2005g:91009**)
Yu, Bin[3] *see* **Glasserman, Paul**, **2005j:60086**
Yushkevich, A. A. Optimal switching problem for Markov chains. (English summary) **2005b:60111**
Zacks, Shelemyahu Some recent results on the distributions of stopping times of compound Poisson processes with linear boundaries. (English summary) **2005k:60132**
Zame, Alan *see* **Chen, Robert W. et al.**, **2005a:60059**
Zhao, Xiang Hua (*with* Yin, Chuan Cun) Ruin problems for a Sparre Andersen risk model. (English and Chinese summaries)
Zhou, Xiao Wen When does surplus reach a certain level before ruin? (English summary) **2005g:60068**

Items with secondary classifications in 60G40

Ackermann, Christophe (*with* Lorang, Gérard; Roynette, Bernard) Independence of time and position for a random walk. (English summary) **2005j:60091**
Akulenko, L. D. (*with* Kovaleva, A. S.) An asymptotic estimate for the probability and mean sojourn time of a moving target in a given domain. (Russian) **2005g:93118**
Alsmeyer, Gerold On the existence of moments of stopped sums in Markov renewal theory. (English summary) **2005h:60205**
Alvarez, Luis H. R. Stochastic forest stand value and optimal timber harvesting. (English summary) **2005b:93159**
Arkin, Adam P. *see* **Wolf, Denise M. et al.**
Attal, Stéphane (*with* Coquio, Agnès) Quantum stopping times and quasi-left continuity. (English and French summaries) **2005k:81145**
Avram, Florin (*with* Kyprianou, Andreas E.; Pistorius, Martijn R.) Exit problems for spectrally negative Lévy processes and applications to (Canadized) Russian options. (English summary) **2005c:60053**
Bank, Peter (*with* El Karoui, Nicole) A stochastic representation theorem with applications to optimization and obstacle problems. (English summary) **2005a:60046**
Battauz, A. (*with* Pratelli, Maurizio) Optimal stopping and American options with discrete dividends and exogenous risk. (English summary) **2005f:91062**
Calvin, James M. (*with* Nakayama, Marvin K.) Permuted derivative and importance-sampling estimators for regenerative simulations. (English summary) **2005a:62055**
Chen, Kung-Yu (*with* Lin, Chien-Tai) A note on infinite-armed Bernoulli bandit problems with generalized beta prior distributions. (English summary) **2005i:62119**
Chen, Pei De *see* **Long, Yong Hong**[3], **2005a:60074**
Chiarolla, Maria B. (*with* Haussmann, Ulrich G.) Explicit solution of a stochastic, irreversible investment problem and its moving threshold. (English summary) **2005m:91093**
Coquio, Agnès *see* **Attal, Stéphane**, **2005k:81145**
Dai, Min[2] (*with* Kwok, Yue Kuen; Wu, Lixin[2]) Optimal shouting policies of options with strike reset right. (English summary) **2005e:91072**
Danelia, Akaki (*with* Dochviri, Besarion; Shashiashvili, Malkhaz) Stochastic variational inequalities and optimal stopping: applications to the robustness of the portfolio/consumption processes. (English summary) **2005a:60102**
De La Peña, Victor H. (*with* Klass, Michael J.; Lai, Tze Leung) Self-normalized processes: exponential inequalities, moment bounds and iterated logarithm laws. (English summary) **2005g:60035**
— (*with* Yang, Ming[2]) Bounding the first passage time on an average. (English summary) **2005c:60024**
Dochviri, Besarion *see* **Danelia, Akaki et al.**, **2005a:60102**
Dokuchaev, Nikolai Estimates for distances between first exit times via parabolic equations in unbounded cylinders. (English summary) **2005e:60084**
Ebneshahrashoob, Morteza (*with* Gao, Tangan; Sobel, Milton) Sequential window problems. (English summary)
Ekström, Erik Russian options with a finite time horizon. (English summary) **2005b:91112**
El Karoui, Nicole (*with* Föllmer, Hans) A non-linear Riesz representation in probabilistic potential theory. (English and French summaries) **2005m:60169**
— *see also* **Bank, Peter**, **2005a:60046**
Ermol'ev, Yu. M. (*with* Norkin, V. I.) Methods for solving nonconvex nonsmooth stochastic optimization problems. (Russian. English and Ukrainian summaries) **2005e:90078**
Ethier, S. N. The Kelly system maximizes median fortune. (English summary) **2005m:60093**
Etienne, M. P. (*with* Vallois, Pierre) Approximation of the distribution of the supremum of a centered random walk. Application to the local score. (English summary) **2005i:60088**
Fenoy, M. Mar (*with* Ibarrola Muñoz, María del Pilar) Sufficiency in sequentially planned decision procedures. (English summary) **2005a:62182**
Ferenstein, Elżbieta Z. On randomized stopping games. (English summary) **2005j:91010**
Föllmer, Hans *see* **El Karoui, Nicole**, **2005m:60169**
Gao, Tangan *see* **Ebneshahrashoob, Morteza et al.**
Gnedin, A. V. Best choice from the planar Poisson process. (English summary) **2005c:60056**
Grebenyuk, E. A. Estimation of the parameters and the arrival instant of a signal against a colored noise background. (Russian. Russian summary) **2005e:94024**
Guo, Xin (*with* Pham, Huyên) Optimal partially reversible investment with entry decision and general production function. (English summary) **2005m:60143**
Gut, Allan (*with* Steinebach, Josef) Convergence rates and precise asymptotics for renewal counting processes and some first passage times. (English summary) **2005k:60280**
— (*with* Steinebach, Josef) EWMA charts for detecting a change-point in the drift of a stochastic process. (English summary) **2005m:62096**
Haussmann, Ulrich G. *see* **Chiarolla, Maria B.**, **2005m:91093**
Helmes, Kurt Computing optimal selling rules for stocks using linear programming. (English summary) **2005m:90061**
Huo, Yong Liang (*with* Liu, San Yang) Invariance of stopping transformation. (Chinese. English and Chinese summaries) **2005i:60082**
Hyland, David C. *see* **Kumar, Rajeeva et al.**
Ibarrola Muñoz, María del Pilar *see* **Fenoy, M. Mar**, **2005a:62182**
Kabamba, Pierre T. *see* **Kumar, Rajeeva et al.**
Klass, Michael J. *see* **De La Peña, Victor H. et al.**, **2005g:60035**
Kovaleva, A. S. *see* **Akulenko, L. D.**, **2005g:93118**
Kumar, Rajeeva (*with* Kabamba, Pierre T.; Hyland, David C.) Analysis and parameter selection for an adaptive random search algorithm. (English summary)
Kuo, Wen-Chi (*with* Labuschagne, Coenraad C. A.; Watson, Bruce A.) Discrete-time stochastic processes on Riesz spaces. (English summary) **2005i:47058**
Kwok, Yue Kuen *see* **Dai, Min**[2] **et al.**, **2005e:91072**
Kyprianou, Andreas E. *see* **Avram, Florin et al.**, **2005c:60053**
Labuschagne, Coenraad C. A. *see* **Kuo, Wen-Chi et al.**, **2005i:47058**
Lachal, Aimé Application de la théorie des excursions à l'intégrale du mouvement brownien. (English and French summaries) [Application of the theory of excursions to the integral of Brownian motion] **2005g:60128**
Lai, C. D. *see* **Zhang, Lingyun**, **2005f:60107**
Lai, Tze Leung (*with* Lim, Tiong Wee) Exercise regions and efficient valuation of American lookback options. (English summary) **2005f:91070**
— *see also* **De La Peña, Victor H. et al.**, **2005g:60035**
Li, Chu Lin *see* **Mei, Zheng Yang**, **2005k:91164**
Lim, Tiong Wee *see* **Lai, Tze Leung**, **2005f:91070**
Lin, Chien-Tai *see* **Chen, Kung-Yu**, **2005i:62119**
Liu, San Yang *see* **Huo, Yong Liang**, **2005i:60082**
Long, Yong Hong[3] (*with* Chen, Pei De) The stopping and filtrations of two-parameter point processes. (Chinese. English and Chinese summaries) **2005a:60074**
Lorang, Gérard *see* **Ackermann, Christophe et al.**, **2005j:60091**
Manstavičius, Martynas p-variation of strong Markov processes. (English summary) **2005f:60095**
Mei, Zheng Yang (*with* Li, Chu Lin) Options-game analysis for firm with insured debt. (English summary) **2005k:91164**
Meilijson, Isaac Stochastic orders and stopping times in Brownian motion. **2005a:60130**
Mohammed, Abdulrahman A. A. Stopping and stochastic integrals as closable operators. (English summary) **2005f:81127**
Nakayama, Marvin K. *see* **Calvin, James M.**, **2005a:62055**
Nishimura, Kiyohiko G. (*with* Ozaki, Hiroyuki) Search and Knightian uncertainty. (English summary) **2005g:91133**
Norkin, V. I. *see* **Ermol'ev, Yu. M.**, **2005e:90078**
Ohtsubo, Yoshio Risk minimization in optimal stopping problem and applications. (English summary) **2005c:91071**
Øksendal, Bernt K. (*with* Sulem, Agnès) ★ Applied stochastic control of jump diffusions. **2005i:93003**
Ozaki, Hiroyuki *see* **Nishimura, Kiyohiko G.**, **2005g:91133**
Perry, David (*with* Stadje, Wolfgang; Zacks, Shelemyahu) The first rendezvous time of Brownian motion and compound Poisson-type processes. (English summary) **2005m:60185**
Pham, Huyên *see* **Guo, Xin**, **2005m:60143**
Pistorius, Martijn R. *see* **Avram, Florin et al.**, **2005c:60053**
Pratelli, Maurizio *see* **Battauz, A.**, **2005f:91062**

Roynette, Bernard *see* **Ackermann, Christophe et al., 2005j:60091**
Sacerdote, Laura (*with* Smith, Charles E.) Almost sure comparisons for first passage times of diffusion processes through boundaries. (English summary) **2005c:60106**
Sakaguchi, Minoru Three-person games of odd-man-wins. (English summary) **2005i:91005**
— Multistage three-person game with arbitration. (English summary) **2005c:91035**
— Equilibrium in the three-player game of "risky exchange". (English summary) **2005j:91009**
Sato, Ken-iti (*with* Watanabe, Toshiro) Moments of last exit times for Lévy processes. (English and French summaries) **2005c:60054**
Shashiashvili, Malkhaz *see* **Danelia, Akaki et al., 2005a:60102**
Silvestrov, Dmitrii S. ★ Limit theorems for randomly stopped stochastic processes. **2005b:60003**
Smith, Charles E. *see* **Sacerdote, Laura, 2005c:60106**
Sobel, Milton *see* **Ebneshahrashoob, Morteza et al.**
Stadje, Wolfgang *see* **Perry, David et al., 2005m:60185**
Stanke, Mario Sequential selection of random vectors under a sum constraint. (English summary) **2005f:60106**
Steinebach, Josef *see* **Gut, Allan, 2005k:60280** *and* **2005m:62096**
Sulem, Agnès *see* **Øksendal, Bernt K., 2005i:93003**
Szimayer, Alexander A reduced form model for ESO valuation: modelling the effects of employee departure and takeovers on the value of employee share options. (English summary) **2005g:91112**
Vallois, Pierre *see* **Etienne, M. P., 2005i:60088**
Vazirani, Vijay V. *see* **Wolf, Denise M. et al.**
Walsh, John B. The rate of convergence of the binomial tree scheme. (English summary) **2005a:91068**
Wang, Zhong Zhi[1] (*with* Xu, Fu-xia) A strong limit theorem on generalized random selection for m-valued random sequences. (English summary) **2005a:60040**
Watanabe, Toshiro *see* **Sato, Ken-iti, 2005c:60054**
Watson, Bruce A. *see* **Kuo, Wen-Chi et al., 2005i:47058**
Wolf, Denise M. (*with* Vazirani, Vijay V.; Arkin, Adam P.) Diversity in times of adversity: probabilistic strategies in microbial survival games. (English summary)
— (*with* Vazirani, Vijay V.; Arkin, Adam P.) A microbial modified prisoner's dilemma game: how frequency-dependent selection can lead to random phase variation. (English summary)
Wu, Lixin[2] *see* **Dai, Min[2] et al., 2005e:91072**
Xu, Fu-xia *see* **Wang, Zhong Zhi[1], 2005a:60040**
Yang, Ming[2] *see* **De La Peña, Victor H., 2005c:60024**
Zacks, Shelemyahu Exact determination of the run length distribution of a one-sided CUSUM procedure applied on an ordinary Poisson process. (English summary) **2005c:60061**
— *see also* **Perry, David et al., 2005m:60185**
Zhang, Li Hong[1] Upper bounds for ruin probability with stochastic investment return. (English summary) **2005j:91046**
Zhang, Lingyun (*with* Lai, C. D.) Variance of a randomly stopped sum. (English summary) **2005f:60107**
Zweimüller, Roland Invariant measures for general(ized) induced transformations. (English summary) **2005m:37009**

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Bhattacharya, Prodyot Kumar A maximal inequality for nonnegative submartingales. (English summary) **2005m:60085**
Boyarintseva, N. S. (*with* Khametov, V. M.) A new theorem on the representation of martingales (discrete time). (Russian. Russian summary) **2005h:60126**
El-Nakat, Edward *see* **Haidar, Nassar H. S. et al., 2005m:60086a** *and* **2005m:60086b**
Fulga, Andreea L^2-martingale subclasses. (English and Romanian summaries)
Haidar, Nassar H. S. (*with* Hamzeh, Adnan M.; Hamzeh, Soumaya M.; El-Nakat, Edward) On martingales invoked by stochastic exponential and monomial densities. (English summary) **2005m:60086a**
— (*with* Hamzeh, Adnan M.; Hamzeh, Soumaya M.; El-Nakat, Edward) Corrigendum: "On martingales invoked by stochastic exponential and monomial densities" [Random Oper. Stochastic Equations **12** (2004), no. 4, 349–360; MR2108189 (2005m:60086a)]. **2005m:60086b**
Hamzeh, Adnan M. *see* **Haidar, Nassar H. S. et al., 2005m:60086a** *and* **2005m:60086b**
Hamzeh, Soumaya M. *see* **Haidar, Nassar H. S. et al., 2005m:60086a** *and* **2005m:60086b**
Huo, Yong Liang (*with* Liu, San Yang) Invariance of stopping transformation. (Chinese. English and Chinese summaries) **2005i:60082**
Jin, Yan Ming Φ-inequalities for martingale transforms. (Chinese. English and Chinese summaries) **2005d:60068**
Khametov, V. M. *see* **Boyarintseva, N. S., 2005h:60126**
Kikuchi, Masato A classification of martingale Hardy spaces associated with rearrangement-invariant function spaces. (English summary) **2005e:60094**
— New martingale inequalities in rearrangement-invariant function spaces. (English summary) **2005h:60127**
Liu, San Yang *see* **Huo, Yong Liang, 2005i:60082**
Llorente, José G. ★ Discrete martingales and applications to analysis. **2005b:60112**
Martínez, Teresa (*with* Torrea Hernández, José Luis) Boundedness of vector-valued Martingale transforms on extreme points and applications. (English summary) **2005d:60069**
Nagaev, S. V. On probability and moment inequalities for supermartingales and martingales. (English summary) **2005f:60098**
Ouchti, Lahcen On the rate of convergence in the central limit theorem for martingale difference sequences. (English and French summaries) **2005j:60088**
Torrea Hernández, José Luis *see* **Martínez, Teresa, 2005d:60069**
Yu, Lin[1] B-valued martingale spaces generated by sharp operators and their atomic decompositions. (Chinese. English and Chinese summaries) **2005e:60095**
Zhai, Fu Ju (*with* Zhang, Chuan Zhou) Boundedness of Banach-space-valued martingale transform operators. (Chinese. English and Chinese summaries) **2005c:60046**
Zhang, Chuan Zhou *see* **Zhai, Fu Ju, 2005c:60046**
Zohry, Mohamed On multivalued martingales, multimeasures and multivalued Radon-Nikodym property. (English and Italian summaries) **2005g:60069**

Items with secondary classifications in 60G42

Alsmeyer, Gerold On the existence of moments of stopped sums in Markov renewal theory. (English summary) **2005h:60205**
Antonyuk, S. V. *see* **Yasins'kiĭ, V. K., 2005i:60057**
Baran, Michał Large losses—probability minimizing approach. (English summary) **2005m:91088**
Bercu, B. On the convergence of moments in the almost sure central limit theorem for martingales with statistical applications. (English summary) **2005f:60075**
Biggins, J. D. (*with* Kyprianou, Andreas E.) Measure change in multitype branching. (English summary) **2005f:60179**
Bühlmann, Hans (*with* Platen, Eckhard) A discrete time benchmark approach for insurance and finance. (English summary) **2005a:62222**
Cai, Jun (*with* Dickson, David C. M.) Ruin probabilities with a Markov chain interest model. (English summary) **2005h:91129**
Carrière, J. F. Martingale valuation of cash flows for insurance and interest models. (English summary)
Chang, Yen-Chang A sequential software release policy. (English summary) **2005f:62126**
De La Peña, Victor H. (*with* Klass, Michael J.; Lai, Tze Leung) Self-normalized processes: exponential inequalities, moment bounds and iterated logarithm laws. (English summary) **2005g:60035**
Dickson, David C. M. *see* **Cai, Jun, 2005h:91129**
Fisher, Lance A. (*with* Kingston, Geoffrey H.) Theory of tax smoothing in the small open economy. (English summary)
Giuliano Antonini, Rita *see* **Volodin, Andrei I. et al., 2005i:60017**
Gordin, Mikhail A remark on the martingale method for proving the central limit theorem for stationary sequences. (Russian. English and Russian summaries) **2005h:60065**
Goubran, N. Pointwise inequalities for ergodic averages and reversed martingales. (English summary) **2005j:37005**
Hambly, Ben M. *see* **Meinshausen, N., 2005k:91165**
Hitchcock, John M. (*with* Lutz, Jack H.) Why computational complexity requires stricter martingales. (English summary) (*see* **2005a:68008**)
Houdré, Christian (*with* Reynaud-Bouret, Patricia) Exponential inequalities, with constants, for U-statistics of order two. (English summary) **2005d:60031**
Hu, Tien Chung *see* **Volodin, Andrei I. et al., 2005i:60017**
Irle, A. A measure-theoretic approach to completeness of financial markets. (English summary) **2005d:62166**
Ivanoff, B. Gail (*with* Merzbach, Ely) Random clouds and an application to censoring in survival analysis. (English summary) **2005b:62207**
Kingston, Geoffrey H. *see* **Fisher, Lance A.**
Klass, Michael J. *see* **De La Peña, Victor H. et al., 2005g:60035**
Kuo, Wen-Chi (*with* Labuschagne, Coenraad C. A.; Watson, Bruce A.) Discrete-time stochastic processes on Riesz spaces. (English summary) **2005i:47058**
Kyprianou, Andreas E. *see* **Biggins, J. D., 2005f:60179**
Labuschagne, Coenraad C. A. *see* **Kuo, Wen-Chi et al., 2005i:47058**
Lai, Tze Leung *see* **De La Peña, Victor H. et al., 2005g:60035**
Lee, Sungchul The martingale inequality and symmetry. (English summary) **2005f:60047**
Lutz, Jack H. *see* **Hitchcock, John M., (2005a:68008)**
Martikaĭnen, A. I. An almost sure central limit theorem without logarithmic summation (Russian. English and Russian summaries) **2005j:60046**
Meinshausen, N. (*with* Hambly, Ben M.) Monte Carlo methods for the valuation of multiple-exercise options. (English summary) **2005k:91165**
Mejane, Olivier Upper bound of a volume exponent for directed polymers in a random environment. (English and French summaries) **2005e:60239**
Merkle, Wolfgang (*with* Mihailović, Nenad) On the construction of effectively random sets. (English summary) **2005k:03103**
Merzbach, Ely *see* **Ivanoff, B. Gail, 2005b:62207**
Mihailović, Nenad *see* **Merkle, Wolfgang, 2005k:03103**
Molina Fernández, Manuel (*with* Mota, Manuel; Ramos, Alfonso) Limit behaviour for a supercritical bisexual Galton-Watson branching process with population-size-dependent mating. (English summary) **2005c:60111**
Mota, Manuel *see* **Molina Fernández, Manuel et al., 2005c:60111**
Musiela, Marek (*with* Rutkowski, Marek) ★ Martingale methods in financial modelling **2005m:91004**
Paganoni, Anna Maria (*with* Secchi, Piercesare) Interacting reinforced-urn systems. (English summary) **2005d:60045**
Pflug, Georg Ch. The value of perfect information as a risk measure. (English summary) **2005e:91104**
Platen, Eckhard *see* **Bühlmann, Hans, 2005a:62222**
Pontiggia, Laura Two-person red-and-black with bet-dependent win probabilities. (English summary) **2005k:91049**
Prigent, Jean-Luc ★ Weak convergence of financial markets. **2005b:91007**
(Prokhorov, Yurīĭ Vasil'evich) *see* **Skorokhod, Anatolii V., 2005i:60002**
Ramos, Alfonso *see* **Molina Fernández, Manuel et al., 2005c:60111**
Rásonyi, Miklós (*with* Stettner, Lukasz) On utility maximization in discrete-time financial market models. (English summary) **2005k:93244**
Reynaud-Bouret, Patricia *see* **Houdré, Christian, 2005d:60031**
Rosenblatt, Joseph (*with* Taylor, Michael E.) Group actions and singular martingales. II. The recognition problem. (English summary) **2005c:60008**
Rutkowski, Marek *see* **Musiela, Marek, 2005m:91004**
Schechtman, Gideon Concentration results and applications. (English summary) **2005f:52017**
Secchi, Piercesare *see* **Paganoni, Anna Maria, 2005d:60045**
(Seckler, B. D.) *see* **Skorokhod, Anatolii V., 2005i:60002**
Shao, Xiaofeng *see* **Wu, Wei Biao, 2005b:60060**
Skorokhod, Anatolii V. ★ Basic principles and applications of probability theory. **2005i:60002**
Stettner, Lukasz *see* **Rásonyi, Miklós, 2005k:93244**

Suh, Jiyeon A sharp weak type (p, p) inequality $(p > 2)$ for martingale transforms and other subordinate martingales. (English summary) **2005k:60134**
Taylor, Michael E. *see* **Rosenblatt, Joseph, 2005c:60008**
Volodin, Andrei I. (*with* Giuliano Antonini, Rita; Hu, Tien Chung) A note on the rate of complete convergence for weighted sums of arrays of Banach space valued random elements. (English summary) **2005i:60017**
Watson, Bruce A. *see* **Kuo, Wen-Chi et al., 2005i:47058**
Woodroofe, Michael *see* **Wu, Wei Biao, 2005c:60037**
Wu, Wei Biao (*with* Woodroofe, Michael) Martingale approximations for sums of stationary processes. (English summary) **2005c:60037**
— (*with* Shao, Xiaofeng) Limit theorems for iterated random functions. (English summary) **2005b:60060**
Yasins'kiĭ, V. K. (*with* Antonyuk, S. V.) On the properties of the second moment of solutions of stochastic functional-differential equations with variable coefficients. (Ukrainian. Ukrainian summary) **2005i:60057**
Zhang, Li Hong[1] Upper bounds for ruin probability with stochastic investment return. (English summary) **2005j:91046**
Zhang, Li Xin[1] Strong approximations of martingale vectors and their applications in Markov-chain adaptive designs. (English summary) **2005e:60075**

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Beghdadi-Sakrani, Samia Une martingale non pure, dont la filtration est brownienne. (English and French summaries) [A non-pure martingale with Brownian filtration] **2005g:60070**
Du, Li Jin *see* **Tang, Si Ying et al., 2005f:60099**
Hammouch, H. Normal martingales and polynomial families. (English summary) **2005k:60133**
Jakubowski, Adam An almost sure approximation for the predictable process in the Doob-Meyer decomposition theorem. (English summary) **2005m:60087**
Janakiraman, Prabhu Best weak-type (p, p) constants, $1 \leq p \leq 2$, for orthogonal harmonic functions and martingales. (English summary) **2005m:60088**
Kunita, Hiroshi Representation of martingales with jumps and applications to mathematical finance. (English summary) **2005h:60128**
Liu, Ji Chun *see* **Tang, Si Ying et al., 2005f:60099**
Peccati, Giovanni Weak convergence to ocone martingales: a remark. (English summary) **2005j:60089**
Pozdnyakov, Vladimir (*with* Steele, J. Michael) On the martingale framework for futures prices. (English summary) **2005b:60113**
Steele, J. Michael *see* **Pozdnyakov, Vladimir, 2005b:60113**
Stricker, Christophe Indifference pricing with exponential utility. (English summary) **2005i:60083**
Suh, Jiyeon A sharp weak type (p, p) inequality $(p > 2)$ for martingale transforms and other subordinate martingales. (English summary) **2005k:60134**
Tang, Si Ying (*with* Liu, Ji Chun; Du, Li Jin) The minimal symmetric entropy martingale measure and the valuation problem in incomplete markets. (Chinese. English and Chinese summaries) **2005f:60099**
Yan, Litan Two inequalities for iterated stochastic integrals. (English summary) **2005h:60129**

Items with secondary classifications in 60G44

Anshelevich, Michael Appell polynomials and their relatives. **2005k:33012**
Applebaum, David ★ Lévy processes and stochastic calculus. **2005h:60003**
Bal, Guillaume (*with* Ryzhik, Leonid) Time splitting for the Liouville equation in a random medium. (English summary) **2005j:65081**
Barral, Julien Poissonian products of random weights: uniform convergence and related measures. (English summary) **2005c:60062**
— (*with* Mandelbrot, Benoît B.) Introduction to infinite products of independent random functions (Random multiplicative multifractal measures. I). (English summary) **2005i:28013**
— (*with* Mandelbrot, Benoît B.) Non-degeneracy, moments, dimension, and multifractal analysis for random multiplicative measures (Random multiplicative multifractal measures. II). (English summary) **2005i:28014**
— Techniques for the study of infinite products of independent random functions (Random multiplicative multifractal measures. III). (English summary) **2005i:28015**
Bass, Richard F. (*with* Perkins, Edwin A.) Countable systems of degenerate stochastic differential equations with applications to super-Markov chains. (English summary) **2005j:60113**
Baudoin, Fabrice Modeling anticipations on financial markets. (English summary) **2005a:60099**
Baurdoux, E. J. (*with* Kyprianou, Andreas E.) Further calculations for Israeli options. (English summary) **2005g:91093**
Becherer, Dirk (*with* Schweizer, Martin) Classical solutions to reaction-diffusion systems for hedging problems with interacting Itô and point processes. (English summary) **2005k:60211**
Bhatt, Abhay G. (*with* Karandikar, Rajeeva L.) Martingale problems and path properties of solutions. (English summary) **2005b:60189**
Biagini, Sara (*with* Frittelli, Marco) On the super replication price of unbounded claims. (English summary) **2005h:91096**
Borisov, Andrei V. Analysis and estimation of the states of special Markov jump processes. I. A martingale representation. (Russian. Russian summary) **2005j:60156**
Bozeman, Robert *see* **Zhimbo, È. K. et al., 2005h:91127**
Bueno, Vanderlei Costa Minimal standby redundancy allocation in a k-out-of-n:F system of dependent components. (English summary) **2005j:90016**
Burgstaller, Bernhard A note on the Doob-Meyer-decomposition of L^p-valued submartingales. (English summary) **2005b:60114**
Castañeda-Leyva, Netzahualcóyotl (*with* Hernández-Hernández, Daniel) Optimal portfolio management with consumption. (English summary) **2005e:93032**
Çetin, Umut (*with* Jarrow, Robert A.; Protter, Philip E.; Yildirim, Yildiray) Modeling credit risk with partial information. (English summary) **2005e:91070**
Choi, Dug-Hwan *see* **Choi, Won, 2005a:60101**
Choi, Won (*with* Choi, Dug-Hwan) The application of stochastic differential equations to population genetic model. (English summary) **2005a:60101**
Cox, A. M. G. (*with* Hobson, D. G.) An optimal Skorokhod embedding for diffusions. (English summary) **2005a:60129**
De La Peña, Victor H. (*with* Klass, Michael J.; Lai, Tze Leung) Self-normalized processes: exponential inequalities, moment bounds and iterated logarithm laws. (English summary) **2005g:60035**
Djounguela, A. *see* **Zhimbo, È. K. et al., 2005h:91127**
Donati-Martin, Catherine (*with* Rouault, Alain; Yor, Marc; Zani, M.) Large deviations for squares of Bessel and Ornstein-Uhlenbeck processes. (English summary) **2005b:60064**
Duncan, Tyrone E. Some processes associated with a fractional Brownian motion. (English summary) **2005h:60109**
de Faria, Margarida (*with* Rezgui, Anis; Streit, Ludwig) Martingale approximation for self-intersection local time of Brownian motion. (English summary) **2005i:60155**
Freĭdlin, Mark Iosifovich (*with* Wentzell, Alexander D.) Diffusion processes on an open book and the averaging principle. (English summary) **2005e:60178**
Frittelli, Marco Some remarks on arbitrage and preferences in securities market models. (English summary) **2005b:91115**
— *see also* **Biagini, Sara, 2005h:91096**
Gerrard, Russell *see* **Wang, Nan[2] et al., 2005h:91134**
Ghomrasni, R. (*with* Peskir, Goran) Local time-space calculus and extensions of Itô's formula. (English summary) **2005j:60106**
Guo, Zi Jun Stability of stochastic Lotka-Volterra systems. (Chinese. English and Chinese summaries) **2005g:60104**
Haberman, Steven *see* **Wang, Nan[2] et al., 2005h:91134**
Haussmann, Ulrich G. (*with* Sass, Jörn) Optimal terminal wealth under partial information for HMM stock returns. (English summary) **2005d:91053**
Hernández-Hernández, Daniel *see* **Castañeda-Leyva, Netzahualcóyotl, 2005e:93032**
Herzberg, Frederik S. The fairest price of an asset in an environment of temporary arbitrage. (English summary) **2005k:91115**
Hobson, D. G. *see* **Cox, A. M. G., 2005a:60129**
Huggins, Richard M. Capture-recapture experiments with time heterogeneous capture probabilities in continuous time: a counting process approach. (English summary) **2005b:60127**
Iwaki, Hideki (*with* Yumae, Shoji) An efficient frontier for participating policies in a continuous-time economy. (English summary) **2005h:91111**
Jang, Ji-Wook (*with* Krvavich, Yu. V.) Arbitrage-free premium calculation for extreme losses using the shot noise process and the Esscher transform. (English summary) **2005f:91086**
Jarrow, Robert A. *see* **Çetin, Umut et al., 2005e:91070**
Kabanov, Yu. M. (*with* Klüppelberg, Claudia) A geometric approach to portfolio optimization in models with transaction costs. (English summary) **2005b:49060**
Karandikar, Rajeeva L. *see* **Bhatt, Abhay G., 2005b:60189**
Karatzas, Ioannis A note on Bayesian detection of change-points with an expected miss criterion. (English summary) **2005d:62128**
Kessler, Mathieu (*with* Sørensen, Michael) On time-reversibility and estimating functions for Markov processes. (English summary)
Khmaladze, Estate V. (*with* Koul, Hira L.) Martingale transforms goodness-of-fit tests in regression models. (English summary) **2005e:62068**
Klass, Michael J. *see* **De La Peña, Victor H. et al., 2005g:60035**
Klüppelberg, Claudia *see* **Kabanov, Yu. M., 2005b:49060**
Komorowski, Tomasz (*with* Widelski, P.) The existence of the effective diffusivity tensor for diffusions with incompressible mixing drifts. (English summary) **2005k:60107**
Koul, Hira L. *see* **Khmaladze, Estate V., 2005e:62068**
Krupa, Grzegorz A note on diffusions in compressible environments. (English summary) **2005i:60058**
Krvavich, Yu. V. *see* **Jang, Ji-Wook, 2005f:91086**
Kurtz, David ★ Contribution à l'étude des martingales d'Azéma. (French) [Contribution to the study of Azéma algebras] **2005h:60007**
Kyprianou, Andreas E. (*with* Palmowski, Zbigniew) A martingale review of some fluctuation theory for spectrally negative Lévy processes. (English summary) **2005m:60103**
— *see also* **Baurdoux, E. J., 2005g:91093**
Lai, Tze Leung *see* **De La Peña, Victor H. et al., 2005g:60035**
León, José R. (*with* Rondón, Oscar) On the increments of the Brownian sheet. (English summary) **2005i:60069**
Lin, Qing Quan Nonlinear Doob-Meyer decomposition for g-supermartingales without Lipschitz condition on g. (Chinese. English and Chinese summaries) **2005j:60120**
Liu, Jicheng[1] D_{∞}-approximation of product variations of two parameter smooth semimartingales. (English summary) **2005g:60088**
— (*with* Ren, Jiagang) Regularities of local times of two-parameter martingales. (English summary) **2005j:60144**
Luczak, Malwina J. A quantitative law of large numbers via exponential martingales. (English summary) **2005h:60250**
Mandelbrot, Benoît B. *see* **Barral, Julien, 2005i:28013** *and* **2005i:28014**
Mansuy, Roger (*with* Yor, Marc) Harnesses, Lévy bridges and *Monsieur Jourdain*. (English summary) **2005m:60104**
Miyahara, Y. (*with* Novikov, Aleksandr A.) Geometric Lévy process pricing model. (English summary) **2005b:60169**
Møller, Thomas Hedging equity-linked life insurance contracts. (English summary)
Musiela, Marek (*with* Rutkowski, Marek) ★ Martingale methods in financial modelling. **2005m:91004**
Mykland, Per Aslak The interpolation of options. (English summary) **2005a:60105**
Nakano, Yumiharu Efficient hedging with coherent risk measure. (English summary) **2005a:62230**
Novikov, Aleksandr A. *see* **Miyahara, Y., 2005b:60169**
Obłój, Jan (*with* Yor, Marc) An explicit Skorokhod embedding for the age of Brownian excursions and Azéma martingale. (English summary) **2005b:60110**
Palmowski, Zbigniew *see* **Kyprianou, Andreas E., 2005m:60103**
Perkins, Edwin A. *see* **Bass, Richard F., 2005j:60113**

Peskir, Goran *see* **Ghomrasni, R., 2005j:60106**
Pikovsky, Igor *see* **Sîrbu, Mihai et al., 2005f:91080**
Prigent, Jean-Luc ★ Weak convergence of financial markets. **2005b:91007**
(Prokhorov, Yurii Vasil'evich) *see* **Skorokhod, Anatolii V., 2005i:60002**
Protter, Philip E. ★ Stochastic integration and differential equations. **2005k:60008**
— *see also* **Çetin, Umut et al., 2005e:91070**
Ramasubramanian, S. Diffusions and the martingale problem of Stroock and Varadhan. **2005a:60126**
Ren, Jiagang *see* **Liu, Jicheng[1], 2005j:60144**
Ren, Yao Feng On the ratio inequalities for locally square integrable martingales. (English and Chinese summaries) **2005b:60045**
Rezgui, Anis *see* **de Faria, Margarida et al., 2005i:60155**
Rondón, Oscar *see* **León, José R., 2005i:60069**
Rouault, Alain *see* **Donati-Martin, Catherine et al., 2005b:60064**
Rutkowski, Marek *see* **Musiela, Marek, 2005m:91004**
Ryzhik, Leonid *see* **Bal, Guillaume, 2005j:65081**
Sass, Jörn *see* **Haussmann, Ulrich G., 2005d:91053**
Schweizer, Martin *see* **Becherer, Dirk, 2005k:60211**
(Seckler, B. D.) *see* **Skorokhod, Anatolii V., 2005i:60002**
Sekine, Jun Dynamic minimization of worst conditional expectation of shortfall. (English summary) **2005f:91078**
Shreve, Steven E. *see* **Sîrbu, Mihai et al., 2005f:91080**
Sîrbu, Mihai (*with* Pikovsky, Igor; Shreve, Steven E.) Perpetual convertible bonds. (English summary) **2005f:91080**
Skorokhod, Anatolii V. ★ Basic principles and applications of probability theory. **2005i:60002**
Sørensen, Michael *see* **Kessler, Mathieu**
Streit, Ludwig *see* **de Faria, Margarida et al., 2005i:60155**
Stroock, Daniel W. Some comments about Itô's construction procedure. (English summary) **2005h:60228**
Suzuki, Takeru *see* **Zhimbo, È. K. et al., 2005h:91127**
Szabados, Tamás *see* **Székely, Balázs, 2005j:60064**
Székely, Balázs (*with* Szabados, Tamás) Strong approximation of continuous local martingales by simple random walks. (English summary) **2005j:60064**
Szimayer, Alexander A reduced form model for ESO valuation: modelling the effects of employee departure and takeovers on the value of employee share options. (English summary) **2005g:91112**
Uemura, Hideaki Tanaka formula for multidimensional Brownian motions. (English summary) **2005e:60188**
Walsh, John B. The rate of convergence of the binomial tree scheme. (English summary) **2005a:91068**
Wang, Nan[2] (*with* Gerrard, Russell; Haberman, Steven) The premium and the risk of a life policy in the presence of interest rate fluctuations. (English summary) **2005h:91134**
Warren, Jon (*with* Watanabe, Shinzo) On spectra of noises associated with Harris flows. (English summary) **2005g:60103**
Watanabe, Shinzo *see* **Warren, Jon, 2005g:60103**
Wei, Zheng Hong (*with* Zhang, Shu Guang) Relationship between optimal growth portfolio and martingale measure. (Chinese. English and Chinese summaries) **2005m:60145**
Wentzell, Alexander D. *see* **Freidlin, Mark Iosifovich, 2005e:60178**
Widelski, P. *see* **Komorowski, Tomasz, 2005k:60107**
Yan, Litan (*with* Zhu, Bei) A ratio inequality for Bessel processes. (English summary) **2005d:60119**
Yildirim, Yildiray *see* **Çetin, Umut et al., 2005e:91070**
Yor, Marc *see* **Donati-Martin, Catherine et al., 2005b:60064**; **Obłój, Jan, 2005b:60110** *and* **Mansuy, Roger, 2005m:60104**
Yumae, Shoji *see* **Iwaki, Hideki, 2005h:91111**
Zani, M. *see* **Donati-Martin, Catherine et al., 2005b:60064**
Zhang, Shu Guang *see* **Wei, Zheng Hong, 2005m:60145**
Zhimbo, È. K. (*with* Bozeman, Robert; Djounguela, A.; Suzuki, Takeru) Optimum values search in a martingale financial market. (English summary) **2005h:91127**
Zhu, Bei *see* **Yan, Litan, 2005d:60119**

60G46 Martingales and classical analysis

González Llorente, José (*with* Nicolau, Artur) Regularity properties of measures, entropy and the law of the iterated logarithm. **2005g:60071**
Nicolau, Artur *see* **González Llorente, José, 2005g:60071**

Items with secondary classifications in 60G46

Chevalier, Lucien Bornitude et continuité de la transformation de Lévy en analyse. (English summary) [Boundedness and continuity of the Lévy transform in analysis] **2005a:42020**
Kadets, Vladimir The Haar system in L_1 is monotonically boundedly complete. (English summary) **2005m:46016**
Kikuchi, Masato A classification of martingale Hardy spaces associated with rearrangement-invariant function spaces. (English summary) **2005e:60094**
— New martingale inequalities in rearrangement-invariant function spaces. (English summary) **2005h:60127**
Llorente, José G. ★ Discrete martingales and applications to analysis. **2005b:60112**
Suh, Jiyeon A sharp weak type (p, p) inequality $(p > 2)$ for martingale transforms and other subordinate martingales. (English summary) **2005k:60134**
Zhai, Fu Ju *see* **Zhang, Chuan Zhou, 2005m:60090**
Zhang, Chuan Zhou (*with* Zhai, Fu Ju) Atomic decomposition of B-valued martingales with respect to complex measure. (Chinese. English and Chinese summaries) **2005m:60090**

60G48 Generalizations of martingales

Burgstaller, Bernhard A note on the Doob-Meyer-decomposition of L^p-valued submartingales. (English summary) **2005b:60114**
Capobianco, Enrico Multiscale stochastic dynamics in finance. (English summary)
Dudek, Dorota (*with* Zięba, Wiesław) On multivalued amarts. (English summary) **2005c:60047**
Fei, Weiyin (*with* Wu, Rangquan) Doob's decomposition theorem for fuzzy (super) submartingales. (English summary) **2005b:60115**
— Regularity and stopping theorem for fuzzy martingales with continuous parameters. (English summary) **2005k:60135**
Goll, Thomas (*with* Kallsen, Jan) A complete explicit solution to the log-optimal portfolio problem. (English summary) **2005d:60070**
He, Tong-jun *see* **Hou, You Liang, 2005j:60090**
Hou, You Liang (*with* He, Tong-jun) Vector-valued tree martingales and some inequalities. (English and Chinese summaries) **2005j:60090**
Hu, Yi-jun Complete convergence theorems for L^p-mixingales. (English summary) **2005a:60064**
Kallsen, Jan *see* **Goll, Thomas, 2005d:60070**
Liu, Kun Hui (*with* Lu, Chuan Lai; Qin, Ming Da) A class of stationary impulse-type stochastic controls with a state of semi-martingale. (Chinese. English and Chinese summaries) **2005m:60089**
Lu, Chuan Lai *see* **Liu, Kun Hui et al., 2005m:60089**
Michta, Mariusz (*with* Motyl, Jerzy) Second order stochastic inclusion. (English summary) **2005f:60100**
Motyl, Jerzy *see* **Michta, Mariusz, 2005f:60100**
Prakasa Rao, B. L. S. On some inequalities for N-demimartingales. (English summary) **2005i:60084**
Qin, Ming Da *see* **Liu, Kun Hui et al., 2005m:60089**
Ren, Yao Feng On the sets of convergence of special semimartingales. (English and Chinese summaries) **2005k:60136**
Terán, Pedro Cones and decomposition of sub- and supermartingales. (English summary) **2005i:60085**
Vu Viet Yen On convergence of multiparameter multivalued martingales. (English summary) **2005i:60086**
Wang, La Sheng *see* **Xue, Hong[1]**
Wu, Rangquan *see* **Fei, Weiyin, 2005b:60115**
Xie, Yingchao Vague convergence of semimartingale random measures. (English summary) **2005b:60116**
Xue, Hong[1] (*with* Wang, La Sheng) Selection of set-valued order submartingale and its representation theorems. (Chinese. English and Chinese summaries)
Zhai, Fu Ju *see* **Zhang, Chuan Zhou, 2005m:60090**
Zhang, Chuan Zhou (*with* Zhai, Fu Ju) Atomic decomposition of B-valued martingales with respect to complex measure. (Chinese. English and Chinese summaries) **2005m:60090**
Zięba, Wiesław *see* **Dudek, Dorota, 2005c:60047**

Items with secondary classifications in 60G48

Allouba, H. (*with* Langa, José A.) Semimartingale attractors for Allen-Cahn SPDEs driven by space-time white noise. I. Existence and finite dimensional asymptotic behavior (English summary) **2005e:60124**
Ankirchner, Stefan (*with* Imkeller, Peter) Finite utility on financial markets with asymmetric information and structure properties of the price dynamics. (English and French summaries) **2005k:91139**
Barndorff-Nielsen, Ole E. (*with* Graversen, Svend Erik; Shephard, Neil) Power variation and stochastic volatility: a review and some new results. (English summary) 2005e:60145
Bauer, Michel (*with* Bernard, Denis) CFTs of SLEs: the radial case. (English summary) **2005h:81322**
Bernard, Denis *see* **Bauer, Michel, 2005h:81322**
Bobrovnits'ka, Ol'ga (*with* Schweizer, Martin) Mean-variance hedging and stochastic control: beyond the Brownian setting. (English summary) **2005c:91051**
Burke, Murray D. Testing regression models: a strong martingale approach. (English summary) **2005i:62072**
Campi, Luciano Arbitrage and completeness in financial markets with given N-dimensional distributions. (English summary) **2005c:91052**
Carrière, J. F. Martingale valuation of cash flows for insurance and interest models. (English summary)
Dinculeanu, Nicolae Process-measures and their stochastic integral. **2005e:60113**
— (*with* Mocioalca, Oana) Summable processes versus semimartingales. (English summary) **2005d:60088**
Esche, Felix (*with* Schweizer, Martin) Minimal entropy preserves the Lévy property: how and why. (English summary) **2005m:60100**
Frittelli, Marco Some remarks on arbitrage and preferences in securities market models (English summary) **2005b:91115**
Graversen, Svend Erik *see* **Barndorff-Nielsen, Ole E. et al., 2005e:60145**
Hammouch, H. Normal martingales and polynomial families. (English summary) **2005k:60133**
Imkeller, Peter *see* **Ankirchner, Stefan, 2005k:91139**
Junge, Marius (*with* Xu, Quan Hua) On the best constants in some non-commutative martingale inequalities. (English summary) **2005k:46170**
Khmaladze, Estate V. (*with* Koul, Hira L.) Martingale transforms goodness-of-fit tests in regression models. (English summary) **2005e:62068**
Khoshnevisan, Davar (*with* Xiao, Yimin) Additive Lévy processes: capacity and Hausdorff dimension. (English summary) **2005j:60080**
Koul, Hira L. *see* **Khmaladze, Estate V., 2005e:62068**
Kuo, Wen-Chi (*with* Labuschagne, Coenraad C. A.; Watson, Bruce A.) Discrete-time stochastic processes on Riesz spaces. (English summary) **2005i:47058**
Kurtz, David ★ Contribution à l'étude des martingales d'Azéma. (French) [Contribution to the study of Azéma algebras] **2005h:60007**
Labuschagne, Coenraad C. A. *see* **Kuo, Wen-Chi et al., 2005i:47058**
Langa, José A. *see* **Allouba, H., 2005e:60124**
Liu, Jicheng[1] (*with* Ren, Jiagang) Regularities of local times of two-parameter martingales. (English summary) **2005j:60144**
Liu, Kun Hui A class of extended impulse controls related to semimartingale. I. (Chinese. English and Chinese summaries) **2005m:93164**

Mansuy, Roger (*with* Yor, Marc) Harnesses, Lévy bridges and *Monsieur Jourdain*. (English summary) **2005m:60104**
Meladze, Gamlet Information modelling in statistics. Semimartingale with small noise and robust parameter estimation. (English and Georgian summaries) **2005h:62101**
Michta, Mariusz (*with* Motyl, Jerzy) High order stochastic inclusions and their applications. (English summary) **2005k:93239**
Mocioalca, Oana *see* **Dinculeanu, Nicolae**, **2005d:60088**
Motyl, Jerzy *see* **Michta, Mariusz**, **2005k:93239**
Quenez, Marie-Claire Optimal portfolio in a multiple-priors model. (English summary) **2005h:91116**
Ren, Jiagang *see* **Liu, Jicheng[1]**, **2005j:60144**
Schachermayer, Walter A note on arbitrage and closed convex cones. (English summary) **2005i:91067**
Schipp, Ferenc On orthonormal product systems. (English summary) **2005m:42052**
Schweizer, Martin *see* **Bobrovnits′ka, Ol′ga**, **2005c:91051** *and* **Esche, Felix**, **2005m:60100**
Sekine, Jun Dynamic minimization of worst conditional expectation of shortfall. (English summary) **2005f:91078**
Shephard, Neil *see* **Barndorff-Nielsen, Ole E. et al.**, **2005e:60145**
Večeř, Jan (*with* Xu, Mingxin) Pricing Asian options in a semimartingale model. (English summary) **2005b:91135**
Wang, Jian Feng[1] Maximal inequalities for associated random variables and demimartingales. (English summary) **2005a:60031**
Watson, Bruce A. *see* **Kuo, Wen-Chi et al.**, **2005i:47058**
Xiao, Yimin *see* **Khoshnevisan, Davar**, **2005j:60080**
Xu, Mingxin *see* **Večeř, Jan**, **2005b:91135**
Xu, Quan Hua *see* **Junge, Marius**, **2005k:46170**
Yor, Marc *see* **Mansuy, Roger**, **2005m:60104**
Zhai, Fu Ju (*with* Zhang, Chuan Zhou) Boundedness of Banach-space-valued martingale transform operators. (Chinese. English and Chinese summaries) **2005c:60046**
Zhang, Chuan Zhou *see* **Zhai, Fu Ju**, **2005c:60046**

60G50 Sums of independent random variables; random walks

Ackermann, Christophe (*with* Lorang, Gérard; Roynette, Bernard) Independence of time and position for a random walk. (English summary) **2005j:60091**
Adler, Mark (*with* van Moerbeke, P.) Virasoro action on Schur function expansions, skew Young tableaux, and random walks. **2005k:60137**
Alili, Larbi (*with* Chaumont, Loïc; Doney, R. A.) On a fluctuation identity for random walks and Lévy processes. (English summary) **2005j:60092**
Angel, Omer Random infinite permutations and the cyclic time random walk. (English summary) **2005e:60096**
Arias-Castro, Ery (*with* Diaconis, Persi; Stanley, Richard P.) A super-class walk on upper-triangular matrices. (English summary) **2005f:60101**
Baake, Michael (*with* Löwe, Matthias) Comment on: "Curious properties of simple random walks" [J. Statist. Phys. **73** (1993), no. 1-2, 441–445; MR1247871 (94f:60088)] by S. I. Ben-Abraham.
Bartholdi, Laurent Cactus trees and lower bounds on the spectral radius of vertex-transitive graphs. (English summary) **2005h:60130**
(Ben-Abraham, Shelomo I.) *see* **Baake, Michael**
van den Berg, M. Exit and return of a simple random walk. (English summary) **2005m:60091**
Bertacchi, Daniela (*with* Zucca, Fabio) Classification on the average of random walks. (English summary) **2005b:60117**
Boche, Holger (*with* Jorswieck, Eduard A.) On Schur-convexity of expectation of weighted sum of random variables with applications. (English summary) **2005j:60093**
Borovkov, A. A. On the asymptotics of distributions of first-passage times. I. (Russian. Russian summary) **2005d:60071**
Brown, Kenneth S. Semigroup and ring theoretical methods in probability. **2005b:60118**
Campanino, Massimo (*with* Petritis, Dimitri) Random walks on randomly oriented lattices. (English summary) **2005b:60119**
— (*with* Petritis, Dimitri) On the physical relevance of random walks: an example of random walks on a randomly oriented lattice. (English summary) **2005k:60138**
Ceccherini-Silberstein, Tullio (*with* Scarabotti, Fabio) Random walks, entropy and hopfianity of free groups. (English summary) **2005h:60131**
Chaumont, Loïc *see* **Alili, Larbi et al.**, **2005j:60092**
Chebotarev, A. M. (*with* Polyakov, A. V.) Estimates for the deviations of random walks and a stochastic method for solving the Schrödinger equation. (Russian. Russian summary) **2005k:60139**
Chen, Hai Yan[2] (*with* Zhang, Fu Ji) The expected hitting times for graphs with cutpoints. (English summary) **2005a:60065**
Chistyakov, G. P. (*with* Götze, Friedrich) On bounds for moderate deviations for Student's statistic. (Russian summary) **2005m:60092**
Coulhon, Thierry Random walks and geometry on infinite graphs. **2005f:60102**
Csáki, Endre (*with* Hu, Yueyun) Lengths and heights of random walk excursions. (English summary) **2005a:60066**
Dai, Jack Jie Some results regarding vertex-reinforced random walks. (English summary) **2005d:60072**
Dembo, Amir (*with* Gantert, Nina; Zeitouni, Ofer) Large deviations for random walk in random environment with holding times. (English summary) **2005i:60087**
Denisov, Denis (*with* Foss, S. G.; Korshunov, D. A.) Tail asymptotics for the supremum of a random walk when the mean is not finite. (English summary) **2005d:60073**
Diaconis, Persi *see* **Arias-Castro, Ery et al.**, **2005f:60101**
Doney, R. A. *see* **Alili, Larbi et al.**, **2005j:60092**
Drmota, Michael Discrete random walks on one-sided "periodic" graphs. (English summary) **2005c:60048**
Durrett, Richard (*with* Limic, Vlada) Rigorous results for the *NK* model. (English summary) **2005a:60067**
Ethier, S. N. The Kelly system maximizes median fortune. (English summary) **2005m:60093**
Etienne, M. P. (*with* Vallois, Pierre) Approximation of the distribution of the supremum of a centered random walk. Application to the local score. (English summary) **2005i:60088**
Feng, De-Jun (*with* Wang, Yang[3]) Bernoulli convolutions associated with certain non-Pisot numbers. (English summary) **2005h:60132**
— (*with* Wang, Yang[3]) Bernoulli convolutions associated with certain non-Pisot numbers. (English summary) **2005h:60133**
Fontbona, J. (*with* Martínez, Servet A.) The homotopical reduction of a nearest neighbor random walk. (English summary) **2005a:60068**
Foss, S. G. *see* **Denisov, Denis et al.**, **2005d:60073**
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Godefroy, Laurent Martin boundary of polynomial random walks on the d-dimensional lattice of nonnegative integers. (English summary) **2005b:60120**
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— Modification of the compound Poisson process. (Ukrainian. Ukrainian summary) **2005m:60095**
Hambly, Ben M. (*with* Kumagai, Takashi) Heat kernel estimates for symmetric random walks on a class of fractal graphs and stability under rough isometries. (English summary) **2005k:60141**
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Huang, Wei[4] (*with* Zhang, Li Xin[1]; Wen, Ji Wei) Precise asymptotics in the Baum-Katz and Davis laws of large numbers of Cauchy's principal values related to local time. (Chinese. English and Chinese summaries) **2005m:60096**
Ikeda, Satoshi[2] (*with* Kubo, Izumi; Okumoto, Norihiro; Yamashita, Masafumi) Impact of local topological information on random walks on finite graphs. (English summary) (*see* **2005b:68008**)
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Jiang, Tao[3] A note on tail probabilities of maxima of random sums of i.i.d. heavy-tailed random variables. (Chinese. English and Chinese summaries) **2005k:60142**
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Kim, Dmitriĭ Konstantinovich (*with* Lotov, V. I.) Oscillating random walks with two levels of switching [Translation of Mat. Tr. **6** (2003), no. 1, 34–74; MR1985625 (2004c:60145)]. (English summary)
— (*with* Lotov, V. I.) Asymptotics of the stationary distribution of an oscillating random walk. (Russian. Russian summary) **2005h:60136**
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— *see also* **Denisov, Denis et al.**, **2005d:60073**
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— *see also* **Kim, Dmitriĭ Konstantinovich**, **2005h:60136**
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— *see also* **Kozubowski, Tomasz J. et al., 2005m:60097**
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— The local limit theorem for one class of first passage moments in multidimensional random walk. (English summary) **2005k:60145**
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Wen, Ji Wei *see* **Huang, Wei[4] et al., 2005m:60096**
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Items with secondary classifications in 60G50

Abal, G. *see* **Romanelli, A. et al., 2005f:81045**
Abd El-Moneim, M. A. The generalized search for one dimensional random Walker. (English summary)
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Aharonov, Dorit (*with* Ambainis, Andris; Kempe, Julia; Vazirani, Umesh V.) Quantum walks on graphs. (English summary) (*see* **2005j:68008**)
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— Stopping the maximum of a correlated random walk, with cost for observation. (English summary) **2005j:60084**
Ambainis, Andris (*with* Bach, Eric; Nayak, Ashwin; Vishwanath, Ashvin; Watrous, John) One-dimensional quantum walks. (English summary) (*see* **2005j:68008**)
— *see also* **Aharonov, Dorit et al., (2005j:68008)**
Ambroladze, Amiran (*with* Schmeling, Jörg) Lyapunov exponents are not rigid with respect to arithmetic subsequences. (English summary) **2005d:37010**
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Astashkin, Sergei V. (*with* Sukochev, Fedor A.) Comparison of sums of independent and disjoint functions in symmetric spaces. (Russian. Russian summary) **2005g:46060**
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— *see also* **Ambainis, Andris et al., (2005j:68008)**
Baek, Jong Il (*with* Liang, Han Ying; Choi, Yong-Kab; Chung, H. I.) On complete convergence of weighted sums of φ-mixing random variables with application to moving average processes. (English summary) **2005h:60085**
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Bauer, Robert O. Discrete Löwner evolution. (English and French summaries) **2005b:60250**
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Bender, Edward A. (*with* Lawler, Gregory F.; Pemantle, Robin; Wilf, Herbert S.) Irreducible compositions and the first return to the origin of a random walk. (English summary) **2005m:60008**
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Bengtsson, Göran (*with* Nilsson, Elna; Rydén, Tobias; Wiktorsson, Magnus) Irregular walks and loops combines in small-scale movement of a soil insect: implications for dispersal biology. (English summary)
Benjamini, Itai (*with* Kesten, Harry; Peres, Yuval; Schramm, Oded) Geometry of the uniform spanning forest: transitions in dimensions 4, 8, 12, ... (English summary) **2005k:60026**
Berenbrink, Petra *see* **Şahinalp, Süleyman Cenk et al., (2005a:68009)**
Berger, John A. (*with* Mitra, Sanjit K.; Carli, Marco; Neri, Alessandro) Visualization and analysis of DNA sequences using DNA walks. (English summary) **2005a:92035**
Berkenbusch, Marko Kleine *see* **Kadanoff, Leo P., 2005b:37206** *and* **2005j:37144**
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Birkner, Matthias (*with* Geiger, Jochen; Kersting, Götz) Branching processes in random environment—a view on critical and subcritical cases. (English summary) (*see* **2005i:00006**)
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Bolthausen, Erwin (*with* Sznitman, Alain-Sol) On the static and dynamic points of view for certain random walks in random environment. (English summary) **2005c:60133**
Bonin, Olivier Large deviation theorems for weighted compound Poisson sums. (English summary) **2005k:60083**
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Borovkov, A. A. (*with* Boxma, Onno J.) Large deviation probabilities for random walks with heavy tails. (English summary) **2005c:60029**
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— *see also* **Vezzani, Alessandro et al., 2005h:82026**
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Chen, Hai Yan[2] (*with* Zhang, Fu Ji) The rapid mixing of random walks defined by an n-cube. (English summary) **2005e:60021**

Chen, Ping-yan On Chover's LIL for weighted sums of stable random variables. (English summary) **2005g:60049**

Chen, Xia[1] Exponential asymptotics and law of the iterated logarithm for intersection local times of random walks. (English summary) **2005m:60174**

— (*with* Li, Wenbo V.; Rosen, Jay) Large deviations for local times of stable processes and stable random walks in 1 dimension. (English summary) **2005m:60050**

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Codling, E. A. (*with* Hill, N. A.) Sampling rate effects on measurements of correlated and biased random walks. (English summary)

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Coulhon, Thierry (*with* Grigor′yan, Alexander) Pointwise estimates for transition probabilities of random walks on infinite graphs. **2005h:60020**

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Diaconis, Persi Random walks on groups: characters and geometry. **2005c:20109**

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— (*with* Furtlehner, Cyril) Dynamical windings of random walks and exclusion models. I. Thermodynamic limit in $\mathbb{Z}^2$. (English summary) **2005c:82037**

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Fourcassié, Vincent *see* **Jeanson, Raphaël et al.**

Fournier, Richard[2] *see* **Jeanson, Raphaël et al.**

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Hensley, Doug (*with* Su, Francis Edward) Random walks with badly approximable numbers. (English summary) **2005d:11119**

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den Hollander, Frank (*with* Keane, Michael S.; Serafin, J.; Steif, J. E.) Weak Bernoullicity of random walk in random scenery. (English summary) **2005a:60160**

Hori, Reiko (*with* Yoshida, Hiroaki[1]) The spectrum radii of free convex sums of projections. (English summary) **2005b:46143**

Hu, Di He From $(p-m)$ chains to Markov chains in random environments. (Chinese. English and Chinese summaries) **2005e:60237**

Īksanov, Oleksandr M. (*with* Kim, Che Soong) On a Pitman-Yor problem. (English summary) **2005f:60037**

Ishiwata, Satoshi ★ Geometric and analytic properties in the behavior of random walks on nilpotent covering graphs. **2005f:60027**

— Asymptotic behavior of a transition probability for a random walk on a nilpotent covering graph. (English summary) **2005g:60023**

Jang, Ji-Wook (*with* Krvavich, Yu. V.) Arbitrage-free premium calculation for extreme losses using the shot noise process and the Esscher transform. (English summary) **2005f:91086**

Janse van Rensburg, E. J. (*with* Rechnitzer, Andrew) Multiple Markov chain Monte Carlo study of adsorbing self-avoiding walks in two and in three dimensions. (English summary)

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— Ergodic and mixing probability measures on [SIN] groups. (English summary) **2005g:60016**

Jeanson, Raphaël (*with* Blanco, Stéphane; Fournier, Richard[2]; Deneubourg, Jean-Louis; Fourcassié, Vincent; Theraulaz, Guy) A model of animal movements in a bounded space. (English summary)

Jiang, Tao[3] (*with* Wang, Jia Qi) Ruin probability in a discrete risk model with stochastic interest rate. (Chinese. English and Chinese summaries) **2005g:62188**

Joynt, Robert *see* **Bach, Eric et al., 2005h:81087**

Kadanoff, Leo P. (*with* Berkenbusch, Marko Kleine) Trace for the Loewner equation with singular forcing. (English summary) **2005b:37206**

— (*with* Berkenbusch, Marko Kleine) Corrigendum: "Trace for the Loewner equation with singular forcing" [Nonlinearity **17** (2004), no. 4, R41–R54; MR2069697 (2005b:37206)]. **2005j:37144**

Kaimanovich, Vadim A. Random walks on Sierpiński graphs: hyperbolicity and stochastic homogenization. (English summary) **2005h:28022**

— (*with* Kifer, Yuri; Rubshtein, B.-Z.) Boundaries and harmonic functions for random walks with random transition probabilities. (English summary) **2005k:60024**

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— Efficiency test of pseudorandom number generators using random walks. (English summary) **2005h:65011**

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Kashaev, T. R. (*with* Korolev, V. Yu.) Natural estimates of the accuracy of approximation of the distributions of random sums by location mixtures of stable laws. **2005k:60075**

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Kifer, Yuri *see* **Kaimanovich, Vadim A. et al., 2005k:60024**

Kim, Che Soong *see* **Īksanov, Oleksandr M., 2005f:60037**

Kim, Tae-Hwan *see* **Lee, Young-Sook et al.**

Kindler, Guy (*with* Romik, Dan) On distributions computable by random walks on graphs. (English summary) **2005k:68120**

Klaassen, Franc Long swings in exchange rates: are they really in the data? (English summary)

Kleptsyn, V. A. (*with* Nal′skiĭ, M. B.) Convergence of orbits in random dynamical systems on a circle. (Russian. Russian summary) **2005m:37118**

Klesov, O. Ĭ. (*with* Steinebach, Josef) The asymptotic behavior of the renewal function constructed from a random walk in multidimensional time with restricted time domain. (English summary) **2005h:60263**

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— (*with* Sunada, Toshikazu) Spectral geometry of crystal lattices. (English summary) **2005a:82041**
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Kozma, Gady (*with* Schreiber, Ehud) An asymptotic expansion for the discrete harmonic potential. (English summary) **2005f:60165**
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— *see also* **Chen, Dayue, 2005g:60022; Krishnapur, Manjunath, 2005h:60017; Benjamini, Itai et al., 2005k:60026** *and* **Dembo, Amir et al., 2005k:60261**
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— Asymptotic ruin probabilities of the renewal model with constant interest force and regular variation. (English summary) **2005k:62241**
— *see also* **Ng, Kai W. et al.**, **2005g:62034** *and* **2005j:60053**
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— (*with* Li, Bo[7]) Some probability properties of random walk in time-random environment. (English summary) **2005g:60169**
Zhang, Yue[1] Recurrence criteria for random walk in a random environment. (Chinese. English and Chinese summaries) **2005g:60170**
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Klüppelberg, Claudia (*with* Kyprianou, Andreas E.; Maller, Ross A.) Ruin probabilities and overshoots for general Lévy insurance risk processes. (English summary) **2005j:60097**
Konstantopoulos, Takis (*with* Last, Günter; Lin, Si-Jian) On a class of Lévy stochastic networks. (English summary) **2005i:60091**
Kyprianou, Andreas E. (*with* Palmowski, Zbigniew) A martingale review of some fluctuation theory for spectrally negative Lévy processes. (English summary) **2005m:60103**
— *see also* **Avram, Florin et al.**, **2005c:60053** *and* **Klüppelberg, Claudia et al.**, **2005j:60097**
Last, Günter *see* **Konstantopoulos, Takis et al.**, **2005i:60091**
Lazakovich, N. V. (*with* Stashulënok, S. P.; Yablonskiĭ, O. L.) Integrodifferential equations for functionals of random Lévy processes. The symmetric case. (Russian. English and Russian summaries) **2005b:60122**
Lee, Yuh-Jia (*with* Shih, Hsin-Hung) The product formula of multiple Lévy-Itô integrals. (English summary) **2005e:60103**
Lin, Si-Jian *see* **Konstantopoulos, Takis et al.**, **2005i:60091**
Linde, Werner (*with* Shi, Zhan) Evaluating the small deviation probabilities for subordinated Lévy processes. (English summary) **2005h:60139**
Løkka, Arne (*with* Øksendal, Bernt K.; Proske, Frank) Stochastic partial differential equations driven by Lévy space-time white noise. (English summary) **2005d:60078**
Maller, Ross A. *see* **Doney, R. A.**, **2005h:60137** *and* **Klüppelberg, Claudia et al.**, **2005j:60097**
Mansuy, Roger (*with* Yor, Marc) Harnesses, Lévy bridges and *Monsieur Jourdain*. (English summary) **2005m:60104**
Mataramvura, Sure (*with* Øksendal, Bernt K.; Proske, Frank) The Donsker delta function of a Lévy process with application to chaos expansion of local time. (English and French summaries) **2005h:60140**
Morales, Manuel (*with* Schoutens, Wim) A risk model driven by Lévy processes. (English summary) **2005f:60109**
Øksendal, Bernt K. *see* **Løkka, Arne et al.**, **2005d:60078** *and* **Mataramvura, Sure et al.**, **2005h:60140**
Palmowski, Zbigniew *see* **Kyprianou, Andreas E.**, **2005m:60103**
Pistorius, Martijn R. On exit and ergodicity of the spectrally one-sided Lévy process reflected at its infimum. (English summary) **2005e:60104**
— *see also* **Avram, Florin et al.**, **2005c:60053**
Proske, Frank *see* **Løkka, Arne et al.**, **2005d:60078** *and* **Mataramvura, Sure et al.**, **2005h:60140**
Sato, Ken-iti (*with* Watanabe, Toshiro) Moments of last exit times for Lévy processes. (English and French summaries) **2005c:60054**
Schoutens, Wim *see* **Morales, Manuel**, **2005f:60109**
Schweizer, Martin *see* **Esche, Felix**, **2005m:60100**
Shi, Zhan *see* **Linde, Werner**, **2005h:60139**
Shih, Hsin-Hung *see* **Lee, Yuh-Jia**, **2005e:60103**
Simon, Thomas D. Small deviations in p-variation for multidimensional Lévy processes. (English summary) **2005h:60141**
Stashulënok, S. P. *see* **Lazakovich, N. V. et al.**, **2005b:60122**
Watanabe, Toshiro *see* **Sato, Ken-iti**, **2005c:60054**
Wu, Rong[1] (*with* Zhang, Chun Sheng) Extreme distribution for the Lévy processes with positive jumping. (Chinese. English and Chinese summaries) **2005f:60110**
Yablonskiĭ, O. L. *see* **Lazakovich, N. V. et al.**, **2005b:60122**
Yano, Yuko A remark on the asymptotic behavior of subordinators. (English summary) **2005b:60123**
Ying, Jiangang *see* **Zhao, Min Zhi[1]**, **2005c:60055**
Yor, Marc *see* **Émery, Michel**, **2005g:60074** *and* **Mansuy, Roger**, **2005m:60104**
Zhang, Chun Sheng *see* **Wu, Rong[1]**, **2005f:60110**

Zhao, Min Zhi[†] (*with* Ying, Jiangang) Polynomial recurrence for Lévy processes. (English summary) **2005c:60055**

Zhou, Qing[1] Power utility maximization in an exponential Lévy model without a risk-free asset. (English summary) **2005m:60105**

Zhou, Xiao Wen Some fluctuation identities for Lévy processes with jumps of the same sign. (English summary) **2005k:60149**

Items with secondary classifications in 60G51

Al'beverio, S. (*with* Lytvynov, Eugene; Mahnig, Andrea) A model of the term structure of interest rates based on Lévy fields. (English summary) **2005h:60178**

— (*with* Rüdiger, Barbara) Stochastic integrals and the Lévy-Ito decomposition theorem on separable Banach spaces. (English summary)

Aldous, David J. (*with* Miermont, Grégory; Pitman, Jim) The exploration process of inhomogeneous continuum random trees, and an extension of Jeulin's local time identity. (English summary) **2005f:60023**

Alili, Larbi (*with* Chaumont, Loïc; Doney, R. A.) On a fluctuation identity for random walks and Lévy processes. (English summary) **2005j:60092**

Anshelevich, Michael Appell polynomials and their relatives. **2005k:33012**

— Linearization coefficients for orthogonal polynomials using stochastic processes. (English summary) **2005m:05243**

Applebaum, David ★ Lévy processes and stochastic calculus. **2005h:60003**

— (*with* Bhat, B. V. Rajarama; Kustermans, Johan; Lindsay, J. Martin) ★ Quantum independent increment processes. I. **2005j:81087**

Barndorff-Nielsen, Ole E. (*with* Schmiegel, Jürgen) Spatio-temporal modeling based on Lévy processes, and its applications to turbulence. (Russian. Russian summary) **2005d:60114**

— *see also* **Itô, Kiyosi**, **2005e:60002**

Baule, A. (*with* Friedrich, Rudolf) Joint probability distributions for a class of non-Markovian processes. (English summary) **2005k:62028**

Berezanskiĭ, Yuriĭ Makarovich (*with* Lytvynov, Eugene; Mierzejewski, D. A.) The Jacobi field of a Lévy process. (English and Ukrainian summaries) **2005b:46085**

Bhat, B. V. Rajarama *see* **Applebaum, David et al.**, **2005j:81087**

Bieniek, Mariusz (*with* Szynal, Dominik) On the fractional record values. (English summary) **2005j:62108**

Bogdan, Krzysztof (*with* Sztonyk, Paweł) Harnack's inequality for stable Lévy processes. (English summary) **2005m:31015**

Bühler, Hans Information-equivalence: on filtrations created by independent increments. (English summary) **2005m:60064**

Burnecki, Krzysztof (*with* Weron, Aleksander) Lévy stable processes. From stationary to self-similar dynamics and back. An application to finance. (English summary)

Cai, Jun Ruin probabilities and penalty functions with stochastic rates of interest. (English summary) **2005b:60126**

Carr, Peter Paul (*with* Geman, Hélyette; Madan, Dilip B.; Yor, Marc) Stochastic volatility for Lévy processes. (English summary) **2005a:91054**

Chaumont, Loïc *see* **Alili, Larbi et al.**, **2005j:60092**

Crowder, Martin *see* **Lawless, Jerald F.**

Csáki, Endre (*with* Shi, Zhan; Yor, Marc) Fractional Brownian motions as "higher-order" fractional derivatives of Brownian local times. (English summary) **2005f:60171**

Da Silva, Sergio *see* **Matsushita, Raul et al.**

Dayananda, P. W. A. (*with* Kemper, John T.; Shvartsman, Mikhail M.) A stochastic model for prostate-specific antigen levels. (English summary)

Del Muto, Mauro (*with* Figà-Talamanca, Alessandro) Diffusion on locally compact ultrametric spaces. (English summary) **2005c:60004**

Dettweiler, Egbert ★ Risk processes. **2005m:60003**

Doney, R. A. *see* **Alili, Larbi et al.**, **2005j:60092**

Dzhaparidze, Kacha (*with* van Zanten, J. H.) Krein's spectral theory and the Paley-Wiener expansion for fractional Brownian motion. (English summary) **2005m:60070**

Eberlein, Ernst (*with* Papapantoleon, Antonis) Equivalence of floating and fixed strike Asian and lookback options. (English summary) **2005h:91104**

Eliazar, Iddo (*with* Klafter, Joseph) A growth-collapse model: Lévy inflow, geometric crashes, and generalized Ornstein-Uhlenbeck dynamics. (English summary) **2005e:82084**

— (*with* Klafter, Joseph) Stochastic Ornstein-Uhlenbeck capacitors. (English summary) **2005j:82065**

(Émery, Michel) *see* **Seminar: Probability Theory, 38**, **2005j:60006**

Emmer, Susanne (*with* Klüppelberg, Claudia) Optimal portfolios when stock prices follow an exponential Lévy process. (English summary) **2005b:91113**

Figà-Talamanca, Alessandro *see* **Del Muto, Mauro**, **2005c:60004**

Figueiredo, Annibal *see* **Matsushita, Raul et al.**

Fotopoulos, Stergios B. Type G and spherical distributions on $\mathbb{R}^d$. (English summary) **2005i:62036**

Framstad, Nils Chr. On portfolio separation in the Merton problem with bankruptcy or default. (English summary) **2005m:91096**

Franz, Uwe[1] (*with* Privault, Nicolas) Quasi-invariance formulas for components of quantum Lévy processes. (English summary) **2005c:81116**

— *see also* **Applebaum, David et al.**, **2005j:81087**

Friedrich, Rudolf *see* **Baule, A.**, **2005k:62028**

Frolov, Andrei N. On the law of the iterated logarithm for increments of sums of independent random variables. (Russian. English and Russian summaries) **2005i:60089**

Geman, Hélyette *see* **Carr, Peter Paul et al.**, **2005a:91054**

Gleria, Iram *see* **Matsushita, Raul et al.**

Gonchar, N. S. (*with* Kovtun, S. A.) A European-type option for a risky asset that evolves by the Lévy process. (Ukrainian. English summary) **2005h:91107**

Heyer, H. (*with* Pap, Gyula[1]) Gaussian hemigroups on a locally compact group. (English summary) **2005c:43005**

Hurd, T. R. A note on log-optimal portfolios in exponential Lévy markets. (English summary) **2005j:91029**

Huzak, Miljenko (*with* Perman, Mihael; Šikić, Hrvoje; Vondraček, Zoran) Ruin probabilities and decompositions for general perturbed risk processes. (English summary) **2005f:60152**

— (*with* Perman, Mihael; Šikić, Hrvoje; Vondraček, Zoran) Ruin probabilities for competing claim processes. (English summary) **2005k:60237**

Ickstadt, Katja *see* **Wolpert, Robert L.**

Īksanov, Oleksandr M. (*with* Jurek, Zbigniew J.; Schreiber, Bertram M.) A new factorization property of the selfdecomposable probability measures. (English summary) **2005b:60036**

Itô, Kiyosi ★ Stochastic processes. **2005e:60002**

Jacod, Jean The Euler scheme for Lévy driven stochastic differential equations: limit theorems. (English summary) **2005f:65013**

Jaimungal, Sebastian (*with* Young, Virginia R.) Pricing equity-linked pure endowments with risky assets that follow Lévy processes. (English summary)

Jumarie, Guy Probability density of the complex-valued fractional Brownian motion of order n via the maximum entropy principle in $\mathbf{R}_+^{1/n}$. (English summary) **2005a:60082**

Jurek, Zbigniew J. (*with* Yor, Marc) Selfdecomposable laws associated with hyperbolic functions. (English summary) **2005j:60033**

— *see also* **Īksanov, Oleksandr M. et al.**, **2005b:60036**

Kemper, John T. *see* **Dayananda, P. W. A. et al.**

Khoshnevisan, Davar (*with* Xiao, Yimin) Additive Lévy processes: capacity and Hausdorff dimension. (English summary) **2005j:60080**

Klafter, Joseph *see* **Eliazar, Iddo**, **2005e:82084** *and* **2005j:82065**

Klüppelberg, Claudia *see* **Emmer, Susanne**, **2005b:91113**

Kovtun, S. A. *see* **Gonchar, N. S.**, **2005h:91107**

Kozubowski, Tomasz J. (*with* Meerschaert, Mark M.; Panorska, Anna K.; Scheffler, Hans-Peter) Operator geometric stable laws. (English summary) **2005m:60097**

Kunita, Hiroshi Representation of martingales with jumps and applications to mathematical finance. (English summary) **2005h:60128**

Kustermans, Johan *see* **Applebaum, David et al.**, **2005j:81087**

Kutner, Ryszard (*with* Świtała, Filip) Stochastic simulation of time series by using the spatial-temporal Weierstrass function. (English summary) (*see* **2005c:00014**)

Lawless, Jerald F. (*with* Crowder, Martin) Covariates and random effects in a gamma process model with application to degradation and failure. (English summary)

(Ledoux, Michel) *see* **Seminar: Probability Theory, 38**, **2005j:60006**

Le Jan, Yves (*with* Raimond, Olivier) Flows, coalescence and noise. (English summary) **2005c:60075**

Levendorskiĭ, S. Z. Pricing of the American put under Lévy processes. (English summary) **2005d:91055**

Li, Zhi Ying *see* **Zhang, Yi**[3], **2005a:91074**

Liao, Ming ★ Lévy processes in Lie groups. **2005e:60004**

Lijoi, Antonio (*with* Prünster, Igor) A note on the problem of heaps. (English summary) **2005c:60064**

Lindsay, J. Martin *see* **Applebaum, David et al.**, **2005j:81087**

Lindstrøm, Tom Hyperfinite Lévy processes. (English summary) **2005i:28036**

Løkka, Arne Martingale representation of functionals of Lévy processes. (English summary) **2005d:60090**

Lytvynov, Eugene The square of white noise as a Jacobi field. (English summary) **2005m:60152**

— An equivalent representation of the Jacobi field of a Lévy process. (English summary)

— *see also* **Berezanskiĭ, Yuriĭ Makarovich et al.**, **2005b:46085** *and* **Al'beverio, S. et al.**, **2005h:60178**

Madan, Dilip B. *see* **Carr, Peter Paul et al.**, **2005a:91054**

Mahnig, Andrea *see* **Al'beverio, S. et al.**, **2005h:60178**

Matache, Ana-Maria (*with* von Petersdorff, Tobias; Schwab, Christoph) Fast deterministic pricing of options on Lévy driven assets. (English summary) **2005h:60200**

Matsushita, Raul (*with* Gleria, Iram; Figueiredo, Annibal; Rathie, Pushpa Narayan; Da Silva, Sergio) Exponentially damped Lévy flights, multiscaling, and exchange rates. (English summary)

Meerschaert, Mark M. (*with* Xiao, Yimin) Dimension results for sample paths of operator stable Lévy processes. (English summary) **2005k:60238**

— *see also* **Kozubowski, Tomasz J. et al.**, **2005m:60097**

Metzler, Ralf *see* **Sokolov, Igor M.**, **2005g:82101**

Miermont, Grégory *see* **Aldous, David J. et al.**, **2005f:60023**

Mierzejewski, D. A. *see* **Berezanskiĭ, Yuriĭ Makarovich et al.**, **2005b:46085**

Morales, Manuel On an approximation for the surplus process using extreme value theory: applications in ruin theory and reinsurance pricing. (English summary)

Nieto-Barajas, Luis E. (*with* Walker, Stephen G.) Bayesian nonparametric survival analysis via Lévy driven Markov processes. (English summary) **2005i:62144**

Øksendal, Bernt K. (*with* Proske, Frank) White noise of Poisson random measures. (English summary) **2005i:60134**

Panorska, Anna K. *see* **Kozubowski, Tomasz J. et al.**, **2005m:60097**

Pap, Gyula[1] *see* **Heyer, H.**, **2005c:43005**

Papapantoleon, Antonis *see* **Eberlein, Ernst**, **2005h:91104**

Pedersen, Jan (*with* Sato, Ken-iti) Semigroups and processes with parameter in a cone. (English summary) **2005f:60021**

— (*with* Sato, Ken-iti) Relations between cone-parameter Lévy processes and convolution semigroups. (English summary) **2005f:60121**

Perman, Mihael *see* **Huzak, Miljenko et al.**, **2005f:60152** *and* **2005k:60237**

von Petersdorff, Tobias *see* **Matache, Ana-Maria et al.**, **2005h:60200**

Pitman, Jim *see* **Aldous, David J. et al.**, **2005f:60023**

Privault, Nicolas (*with* Zambrini, Jean-Claude) Markovian bridges and reversible diffusion processes with jumps. (English and French summaries) **2005k:60240**

— (*with* Zambrini, Jean-Claude) Euclidean quantum mechanics in the momentum representation. (English summary) **2005k:81074**

— *see also* **Franz, Uwe**[1], **2005c:81116**

Proske, Frank *see* **Øksendal, Bernt K.**, **2005i:60134**

Prünster, Igor *see* **Lijoi, Antonio**, **2005c:60064**

Raimond, Olivier *see* **Le Jan, Yves**, **2005c:60075**

Rathie, Pushpa Narayan *see* **Matsushita, Raul et al.**

Rocha-Arteaga, Alfonso (*with* Sato, Ken-iti) ★ Topics in infinitely divisible distributions and Lévy processes. **2005e:60005**

Ross, John[1] *see* **Vlad, Marcel O. et al.**, **2005b:82070**

Rüdiger, Barbara Stochastic integration for compensated Poisson measures and the Lévy-Itô formula. (English summary) **2005k:60203**
— Stochastic integration with respect to compensated Poisson random measures on separable Banach spaces. (English summary) **2005h:60159**
— *see also* **Al'beverio, S.**
Sato, Ken-iti Stochastic integrals in additive processes and application to semi-Lévy processes. **2005a:60084**
— *see also* **Itô, Kiyosi, 2005e:60002**; **Rocha-Arteaga, Alfonso, 2005e:60005**; **Pedersen, Jan, 2005f:60021** *and* **2005f:60121**
Scheffler, Hans-Peter *see* **Kozubowski, Tomasz J. et al., 2005m:60097**
Schmiegel, Jürgen *see* **Barndorff-Nielsen, Ole E., 2005d:60114**
Schreiber, Bertram M. *see* **Iksanov, Oleksandr M. et al., 2005b:60036**
(Schürmann, Michael) *see* **Applebaum, David et al., 2005j:81087**
Schwab, Christoph *see* **Matache, Ana-Maria et al., 2005h:60200**
Shamarov, N. N. The Fourier transform of distributions of homogeneous random fields with independent increments, and complex Markov-Maslov chains. (Russian) **2005c:60019**
Shi, Zhan *see* **Csáki, Endre et al., 2005f:60171**
Shvartsman, Mikhail M. *see* **Dayananda, P. W. A. et al.**
Šikić, Hrvoje *see* **Huzak, Miljenko et al., 2005f:60152** *and* **2005k:60237**
Silvestrov, Dmitrii S. (*with* Teugels, Józef L.) Limit theorems for mixed max-sum processes with renewal stopping. (English summary) **2005i:60061**
Sokolov, Igor M. (*with* Metzler, Ralf) Non-uniqueness of the first passage time density of Lévy random processes. (English summary) **2005g:82101**
Stroock, Daniel W. Some comments about Itô's construction procedure. (English summary) **2005h:60228**
Surgailis, Donatas Stable limits of sums of bounded functions of long-memory moving averages with finite variance. (English summary) **2005a:62203**
Świtała, Filip *see* **Kutner, Ryszard, (2005c:00014)**
Szczotka, Władysław (*with* Woyczyński, Wojbor A.) Distributions of suprema of Lévy processes via the heavy traffic invariance principle. (English summary) **2005h:60105**
Sztonyk, Paweł *see* **Bogdan, Krzysztof, 2005m:31015**
Szynal, Dominik *see* **Bieniek, Mariusz, 2005j:62108**
Takenaka, Shigeo Linearly additive random fields with independent increments on time-like curves. (English summary) **2005c:60068**
Tanaka, Hiroshi[1] Lévy processes conditioned to stay positive and diffusions in random environments. (English summary) **2005e:60240**
Teugels, Józef L. *see* **Silvestrov, Dmitrii S., 2005i:60061**
Velarde, Manuel G. *see* **Vlad, Marcel O. et al., 2005b:82070**
Vlad, Marcel O. (*with* Velarde, Manuel G.; Ross, John[1]) Analogies between colored Lévy noise and random channel approach to disordered kinetics. (English summary) **2005b:82070**
Vondraček, Zoran *see* **Huzak, Miljenko et al., 2005f:60152** *and* **2005k:60237**
Walker, Stephen G. *see* **Nieto-Barajas, Luis E., 2005i:62144**
Wentzell, Alexander D. Asymptotic expansions in limit theorems for stochastic processes. III. (English summary) **2005b:60086**
Weron, Aleksander *see* **Burnecki, Krzysztof**
Wolpert, Robert L. (*with* Ickstadt, Katja) Reflecting uncertainty in inverse problems: a Bayesian solution using Lévy processes. (English summary)
Woyczyński, Wojbor A. *see* **Szczotka, Władysław, 2005h:60105**
Xiao, Yimin *see* **Khoshnevisan, Davar, 2005j:60080** *and* **Meerschaert, Mark M., 2005k:60238**
Yablonskiĭ, O. L. Stochastic integrals for random processes with independent increments. (Russian. English and Russian summaries)
Yor, Marc *see* **Carr, Peter Paul et al., 2005a:91054**; **Csáki, Endre et al., 2005f:60171**; **Seminar: Probability Theory, 38, 2005j:60006** *and* **Jurek, Zbigniew J., 2005j:60033**
Young, Virginia R. *see* **Jaimungal, Sebastian**
Zambrini, Jean-Claude *see* **Privault, Nicolas, 2005k:60240** *and* **2005k:81074**
van Zanten, J. H. *see* **Dzhaparidze, Kacha, 2005m:60070**
Zhang, Yi[3] (*with* Li, Zhi Ying) Risk model for interest randomness. (Chinese. English and Chinese summaries) **2005a:91074**

Items listed otherwise than by author

Greifswald *see* **Applebaum, David et al., 2005j:81087**
Lecture Notes in Mathematics ★ Séminaire de Probabilités XXXVIII. [Seminar on Probability Theory XXXVIII] **2005j:60006**
Quantum independent increment processes. I *see* **Applebaum, David et al., 2005j:81087**
Seminar:
Probability Theory, 38 ★ Séminaire de Probabilités XXXVIII. [Seminar on Probability Theory XXXVIII] **2005j:60006**

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Bañuelos, Rodrigo (*with* Kulczycki, Tadeusz) The Cauchy process and the Steklov problem. (English summary) **2005b:60124**
Bogdan, Krzysztof (*with* Stós, Andrzej; Sztonyk, Paweł) Harnack inequality for stable processes on d-sets. (English summary) **2005i:60092**
DeBlassie, Richard Dante Higher order PDEs and symmetric stable processes. (English summary) **2005d:60079**
Kohatsu-Higa, Arturo (*with* Yamazato, Makoto) On moments and tail behaviors of storage processes. (English summary) **2005h:60142**
Kulczycki, Tadeusz *see* **Bañuelos, Rodrigo, 2005b:60124**
Lewandowski, Maciej On the exit time of α-stable process. (English summary) **2005a:60072**
Li, Wenbo V. (*with* Linde, Werner) Small deviations of stable processes via metric entropy. (English summary) **2005b:60125**
Linde, Werner *see* **Li, Wenbo V., 2005b:60125**
Michailidis, George *see* **Wu, Wei Biao et al., 2005g:60075**
Samorodnitsky, Gennady Maxima of continuous-time stationary stable processes. (English summary) **2005j:60098**
Simon, Thomas D. Small ball estimates in p-variation for stable processes. (English summary) **2005i:60093**
Stós, Andrzej *see* **Bogdan, Krzysztof et al., 2005i:60092**
Sztonyk, Paweł *see* **Bogdan, Krzysztof et al., 2005i:60092**
Wu, Jang-Mei Symmetric stable processes stay in thick sets. (English summary) **2005a:60073**
Wu, Wei Biao (*with* Michailidis, George; Zhang, Danlu) Simulating sample paths of linear fractional stable motion. (English summary) **2005g:60075**
Yamazato, Makoto *see* **Kohatsu-Higa, Arturo, 2005h:60142**
Zhang, Danlu *see* **Wu, Wei Biao et al., 2005g:60075**

Items with secondary classifications in 60G52

Bass, Richard F. (*with* Burdzy, Krzysztof; Chen, Zhen-Qing) Stochastic differential equations driven by stable processes for which pathwise uniqueness fails. (English summary) **2005c:60072**
Ben Alaya, Mohamed (*with* Huillet, Thierry) On max-multiscaling distributions as extended max-semistable ones. (English summary) **2005h:60046**
Benjamini, Itai (*with* Chen, Zhen-Qing; Rohde, Steffen) Boundary trace of reflecting Brownian motions. (English summary) **2005e:60183**
Biglova, Almira *see* **Ortobelli Lozza, Sergio et al., (2005b:91009)**
Boufoussi, Brahim (*with* Dozzi, Marco) On the local time of multiparameter symmetric stable processes. Regularity and limit theorem in Besov spaces. (English summary) **2005h:60114**
Braverman, Michael Tail probabilities of subadditive functionals on stable processes with continuous and discrete time. (English summary) **2005e:60039**
Burdzy, Krzysztof *see* **Bass, Richard F. et al., 2005c:60072**
Burnecki, Krzysztof (*with* Weron, Aleksander) Lévy stable processes. From stationary to self-similar dynamics and back. An application to finance. (English summary)
— *see also* **Weron, Aleksander et al., 2005m:82121**
Chen, Zhen-Qing *see* **Bass, Richard F. et al., 2005c:60072** *and* **Benjamini, Itai et al., 2005e:60183**
Dalang, Robert C. (*with* Khoshnevisan, Davar) Recurrent lines in two-parameter isotropic stable Lévy sheets. (English summary) **2005m:60108**
Da Silva, Sergio *see* **Figueiredo, Annibal et al., 2005d:82110**
Dozzi, Marco *see* **Boufoussi, Brahim, 2005h:60114**
Figueiredo, Annibal (*with* Gleria, Iram; Matsushita, Raul; Da Silva, Sergio) Lévy flights, autocorrelation, and slow convergence. (English summary) **2005d:82110**
Giere, Eckhard Asymptotic completeness for functions of the Laplacian perturbed by potentials and obstacles. (English summary) **2005b:35211**
Gleria, Iram *see* **Figueiredo, Annibal et al., 2005d:82110**
Gorenflo, Rudolf *see* **Mainardi, Francesco et al., 2005a:60058**
Huber, Isabella *see* **Ortobelli Lozza, Sergio et al., (2005b:91009)**
Huillet, Thierry *see* **Ben Alaya, Mohamed, 2005h:60046**
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Jordanova, Pavlina K. *see* **Pancheva, E. I., 2005k:60165**
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Lin, Zheng Yan (*with* Zhang, Rongmao) Exact Hausdorff measure of the lever sets of a multi-parameter stable process. (English summary) [Exact Hausdorff measure of the level sets of a multi-parameter stable process] **2005j:60074**
Maejima, Makoto (*with* Yamamoto, Kenji) Long-memory stable Ornstein-Uhlenbeck processes. (English summary) **2005c:60076**
Mainardi, Francesco (*with* Pagnini, Gianni; Gorenflo, Rudolf) Mellin transform and subordination laws in fractional diffusion processes. (English summary) **2005a:60058**
Matsushita, Raul *see* **Figueiredo, Annibal et al., 2005d:82110**
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Ortobelli Lozza, Sergio (*with* Rachev, Svetlozar T.; Huber, Isabella; Biglova, Almira) Optimal portfolio selection and risk management: a comparison between the stable Paretian approach and the Gaussian one. (English summary) (*see* **2005b:91009**)
Pagnini, Gianni *see* **Mainardi, Francesco et al., 2005a:60058**
Pancheva, E. I. (*with* Jordanova, Pavlina K.) Functional transfer theorems for maxima of iid random variables. (English summary) **2005k:60165**
Pipiras, Vladas (*with* Taqqu, Murad S.) Central limit theorems for partial sums of bounded functionals of infinite-variance moving averages. (English summary) **2005b:60056**
— (*with* Taqqu, Murad S.) Stable stationary processes related to cyclic flows. (English summary) **2005g:60063**
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— *see also* **Shiozawa, Yuichi, 2005m:60171**
Taqqu, Murad S. *see* **Pipiras, Vladas, 2005b:60056**; **2005g:60063** *and* **Stoev, Stilian, 2005e:65006**

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— *see also* **Takeda, Masayoshi, 2005d:60124**
Wang, Cheng (*with* Jin, Meng Wei) On operator semi-stable distributions on $\mathbf{R}^N$. (Chinese. English and Chinese summaries) **2005i:60024**
Watanabe, Toshiro *see* **Sato, Ken-iti, 2005c:60054**
Weron, Aleksander (*with* Burnecki, Krzysztof; Mercik, Szymon; Weron, Karina) Complete description of all self-similar models driven by Lévy stable noise. (English summary) **2005m:82121**
— *see also* **Burnecki, Krzysztof**
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Agarwal, Ravi P. (*with* Dshalalow, Jewgeni H.; O'Regan, Donal) Random observations of marked Cox processes. Time insensitive functionals. (English summary) **2005g:60076**
— (*with* Dshalalow, Jewgeni H.; O'Regan, Donal) Time sensitive functionals of marked Cox processes. (English summary) **2005g:60077**
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Gravereaux, Jean-Bernard (*with* Ledoux, James) Poisson approximation for some point processes in reliability. (English summary) **2005f:60112**
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van Lieshout, M. N. M. *see* **Gregori, P. et al., 2005d:60081**
Long, Yong Hong[3] (*with* Chen, Pei De) The stopping and filtrations of two-parameter point processes. (Chinese. English and Chinese summaries) **2005a:60074**
Mainardi, Francesco (*with* Gorenflo, Rudolf; Scalas, Enrico) A fractional generalization of the Poisson processes. (English summary)
— *see also* **Scalas, Enrico et al.**
Marron, J. S. (*with* Hernandez-Campos, Felix; Smith, F. Donelson) A sizer analysis of IP flow start times. (English summary) (*see* **2005h:62009**)
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Picinbono, Bernard Time intervals and counting in point processes. (English summary)
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Adell, José Antonio (*with* Lekuona, Alberto) Sharp estimates in signed Poisson approximation of Poisson mixtures. (English summary) **2005k:62051**
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Barral, Julien Poissonian products of random weights: uniform convergence and related measures. (English summary) **2005c:60062**
— (*with* Mandelbrot, Benoît B.) Introduction to infinite products of independent random functions (Random multiplicative multifractal measures. I). (English summary) **2005i:28013**
— (*with* Mandelbrot, Benoît B.) Non-degeneracy, moments, dimension, and multifractal analysis for random multiplicative measures (Random multiplicative multifractal measures. II). (English summary) **2005i:28014**
— Techniques for the study of infinite products of independent random functions (Random multiplicative multifractal measures. III). (English summary) **2005i:28015**
Barzanti, L. (*with* Corradi, Corrado) A stable iterative algorithm for evaluation of upper and lower approximations to ultimate ruin probabilities. (English and Italian summaries)
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Borodin, A. M. Asymptotic representation theory and Riemann-Hilbert problem. (English summary) **2005b:47039**
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Cotar, Codina (*with* Volkov, Stanislav) A note on the lilypond model. (English summary) **2005e:60028**
Davydov, Yu. A. (*with* Nagaev, A. V.) On the role played by extreme summands when a sum of independent and identically distributed random vectors is asymptotically α-stable. (English summary) **2005b:60051**
Dawson, Donald A. (*with* Li, Zeng Hu; Zhou, Xiao Wen) Superprocesses with coalescing Brownian spatial motion as large-scale limits. (English summary) **2005k:60269**
Decreusefond, Laurent (*with* Savy, Nicolas) Filtered Brownian motions as weak limit of filtered Poisson processes. (English summary) **2005j:60154**
Diaconis, Persi (*with* Mayer-Wolf, Eddy; Zeitouni, Ofer; Zerner, Martin P. W.) The Poisson-Dirichlet law is the unique invariant distribution for uniform split-merge transformations. (English summary) **2005e:60232**
Dimitrov, Boyan N. (*with* Chukova, Stefanka; Khalil, Zohel) Warranty costs: an age-dependent failure/repair model. (English summary) **2005m:90025**
Diop, Aliou (*with* Guégan, Dominique) Asymptotic behavior for the extreme values of a linear regression model. (English summary) **2005g:62115**
Dong, Ya Juan (*with* Zhu, Yong Hua) The ruin probability of a generalized risk model in insurance systems. (Chinese. English and Chinese summaries)
D'Souza, Dylan (*with* Amir-Atefi, Keyvan; Racheva-Jotova, Borjana) Valuation of a credit spread put option: the stable Paretian model with copulas. (*see* **2005b:91009**)
Eliazar, Iddo On geometric record times. (English summary) **2005j:60103**
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Kesler, Karen L. (*with* Sen, Pranab Kumar[1]) The matrix-valued counting process model with proportional hazards for sequential survival data. (*see* **2005a:62015**)
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Kim, Younghoon (*with* Lee, Sungchul; Lin, Zheng Yan) The law of the iterated logarithm for the total length of the nearest neighbor graph. (English summary) **2005d:60044**
Klüppelberg, Claudia (*with* Kühn, Christoph) Fractional Brownian motion as a weak limit of Poisson shot noise processes—with applications to finance. (English summary) **2005h:60100**
Kondrat'ev, Yu. G. (*with* Kuna, Tobias; Kutoviĭ, Oleksandr V.) On relations between a priori bounds for measures on configuration spaces. (English summary) **2005g:82026**
— (*with* Kuna, Tobias; Oliveira, Maria João) On the relations between Poissonian white noise analysis and harmonic analysis on configuration spaces. (English summary) **2005f:60142**
— (*with* Kutoviĭ, Oleksandr V.; Pecherskiĭ, E. A.) Existence of Gibbs state for a non-ideal gas in $\mathbb{R}^D$: the case of a pair, long-range interaction. (English summary) **2005e:82021**
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— *see also* **Kondrat'ev, Yu. G. et al.**, 2005f:60142 *and* **2005g:82026**
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— (*with* Shcherbakov, Vadim; Zuev, S. A.) Critical growth of a semi-linear process. (English summary) **2005b:60025**
Møller, Jesper (*with* Torrisi, Giovanni Luca) Generalised shot noise Cox processes. (English summary) **2005k:60040**
Morales, Manuel On an approximation for the surplus process using extreme value theory: applications in ruin theory and reinsurance pricing. (English summary)
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Pecherskiĭ, E. A. *see* **Kondrat'ev, Yu. G. et al.**, 2005e:82021
Peña, Edsel A. (*with* Hollander, Myles) Models for recurrent events in reliability and survival analysis. (English summary) **2005f:62159**
Petersen, W. P. Estimation of weak lensing parameters by stochastic integration. (English summary) **2005a:60083**
Racheva-Jotova, Borjana *see* **D'Souza, Dylan et al.**, (2005b:91009)
Rao, P. Tirupathi *see* **Srinivasa Rao, Kraleti**
Rebenko, A. L. *see* **Kutoviĭ, Oleksandr V.**, 2005f:82026
Robert, Philippe ★ Réseaux et files d'attente: méthodes probabilistes. (French) [Networks and queues: probabilistic methods] **2005h:60002**
Ruiz Gómez, José Maria *see* **Belzunce, Félix et al.**, 2005i:60026
Rüschendorf, Ludger *see* **Kühne, Robert**, 2005i:60080
Ruzmaikina, Anastasia (*with* Aizenman, Michael) Characterization of invariant measures at the leading edge for competing particle systems. (English summary) **2005j:60105**
Sakaguchi, Takayuki (*with* Mase, Shigeru) On the threshold method for marked spatial point processes. (English summary) **2005a:62210**
Sapozhnikov, P. N. Estimation of parameters of a compound Poisson process. **2005g:62147**

Savy, Nicolas *see* **Decreusefond, Laurent**, 2005j:60154
Schoenberg, Frederic Paik Consistent parametric estimation of the intensity of a spatial-temporal point process. (English summary) **2005g:62148**
Sen, Pranab Kumar[1] *see* **Kesler, Karen L.**, (2005a:62015)
Shcherbakov, Vadim *see* **Molchanov, Ilya S. et al.**, 2005b:60025
Silva, José Luis *see* **Kuna, Tobias**, 2005j:82019
Situ, Rong *see* **Yin, Ju-liang**, 2005k:60189
Solo, Victor Averaging analysis of a point process adaptive algorithm. (English summary) **2005k:60186**
Soshnikov, Alexander Janossy densities of coupled random matrices. (English summary) **2005g:82053**
— (*with* Fyodorov, Yan V.) On the largest singular values of random matrices with independent Cauchy entries. (English summary) **2005k:82034**
Spitler, Stephen L. (*with* Lee, Daniel C.) Optimization of call admission control for a statistical multiplexer allocating link bandwidth. (English summary) **2005d:60148**
Srinivasa Rao, Kraleti (*with* Rao, P. Tirupathi) Stochastic model for mutant cell growth with inactivation of allele genes. (English summary)
Suchwałko, Artur (*with* Szajowski, Krzysztof) On Bruss' stopping problem with general gain function. **2005k:60131**
Szajowski, Krzysztof *see* **Suchwałko, Artur**, 2005k:60131
Szekli, Ryszard *see* **Kulik, Rafał**, 2005k:60063
Thilly, William G. *see* **Morgenthaler, Stephan et al.**, 2005h:92013
(Tierney, Luke) *see* **Gutiérrez-Peña, Eduardo**, 2005d:62055
Torrisi, Giovanni Luca Simulating the ruin probability of risk processes with delay in claim settlement. (English summary) **2005g:91126**
— *see also* **Møller, Jesper**, 2005k:60040
Toscas, Peter J. (*with* Faddy, Malcolm J.) Using Fisher scoring to fit extended Poisson process models. (English summary)
Tsigroshvili, Z. Compound sums and counting processes. (English and Georgian summaries) **2005j:60095**
Valkeila, E. *see* **Gushchin, Alexander A.**, 2005a:60060
Volf, Petr An application of nonparametric Cox regression model in reliability analysis: a case study. (English summary)
Volkov, Stanislav *see* **Cotar, Codina**, 2005e:60028
Wang, Han Xing *see* **Wang, Rong Ming et al.**, 2005i:62151
Wang, Rong Ming (*with* Yang, Hailiang; Wang, Han Xing) On the distribution of surplus immediately after ruin under interest force and subexponential claims. (English summary) **2005i:62151**
Weil, Wolfgang *see* **Hug, Daniel et al.**, 2005a:53130
Wendt, Heide (*with* Kahle, Waltraud) On parameter estimation for a position-dependent marking of a doubly stochastic Poisson process. (English summary) (*see* **2005d:62008**)
Yang, Hailiang *see* **Wang, Rong Ming et al.**, 2005i:62151
Yin, Ju-liang (*with* Situ, Rong) Existence of solutions for forward-backward stochastic differential equations with jumps and non-Lipschitzian coefficients. (English and Chinese summaries) **2005k:60189**
Yu, Wen Guang[2] Ruin probability for multitype-insurance risk models with compound generalized homogeneous Poisson process. (Chinese. English and Chinese summaries) **2005a:62235**
Yuri, Michiko Weak Gibbs measures for intermittent systems and weakly Gibbsian states in statistical mechanics. (English summary) **2005a:37045**
Zacks, Shelemyahu Generalized integrated telegraph processes and the distribution of related stopping times. (English summary) **2005b:60229**
Zaitsev, Andrei Yu. On the approximation of a sample by a Poisson point process. (Russian. English and Russian summaries) **2005f:60091**
Zeitouni, Ofer *see* **Diaconis, Persi et al.**, 2005e:60232
Zerner, Martin P. W. *see* **Diaconis, Persi et al.**, 2005e:60232
Zhou, Xiao Wen *see* **Dawson, Donald A. et al.**, 2005k:60269
Zhu, Jinxia *see* **Li, Ze Hui et al.**, 2005m:62193
Zhu, Li-Xing *see* **Lam, Yeh et al.**, 2005a:62023
Zhu, Yong Hua *see* **Dong, Ya Juan**
Zitikis, Ricărdas *see* **Helmers, Roelof et al.**, 2005h:62107
Znamenski, Dmitri *see* **Meester, Ronald**, 2005b:60261
Zou, Jie Zhong *see* **Luo, Yan**
Zuev, S. A. *see* **Molchanov, Ilya S. et al.**, 2005b:60025 *and* 2005h:49105

Items listed otherwise than by author

Lecture Notes in Economics and Mathematical Systems *see* **Hautsch, Nikolaus**, 2005c:91004

60G57 Random measures

Agarwal, Ravi P. (*with* Dshalalow, Jewgeni H.; O'Regan, Donal) Generalized modulated random measures and their potentials. (English summary) **2005b:60128**
Barral, Julien Poissonian products of random weights: uniform convergence and related measures. (English summary) **2005c:60062**
Barrera, Javiera (*with* Huillet, Thierry) On random splitting of the interval. (English summary) **2005c:60063**
Dorogovtsev, Andrei A. (*with* Karlikova, Maria P.) Long-time behaviour of measure-valued processes correspondent to stochastic flows with interactions. (English summary) **2005g:60081**
Dshalalow, Jewgeni H. *see* **Agarwal, Ravi P. et al.**, 2005b:60128
Fan, Ai Hua[1] Some topics in the theory of multiplicative chaos. (English summary) **2005f:60116**
Huillet, Thierry *see* **Barrera, Javiera**, 2005c:60063
Karlikova, Maria P. *see* **Dorogovtsev, Andrei A.**, 2005g:60081
Lijoi, Antonio (*with* Prünster, Igor) A note on the problem of heaps. (English summary) **2005c:60064**
Molchan, G. On the uniqueness of the branching parameter for a random cascade measure. (English summary) **2005c:60065**
O'Regan, Donal *see* **Agarwal, Ravi P. et al.**, 2005b:60128
Pawlas, Zbyněk Central limit theorem for random measures generated by stationary processes of compact sets. (English summary) **2005e:60106**
Prünster, Igor *see* **Lijoi, Antonio**, 2005c:60064
Radchenko, V. N. On the product of random and real measures. (Ukrainian. Ukrainian summary) **2005h:60146**
Xiong, Jie Long-term behavior for superprocesses over a stochastic flow. (English summary) **2005k:60155**
Yurachkovskiĭ, A. P. A criterion for relative compactness of a sequence of measure-valued random processes. (English summary) **2005h:60147**

Items with secondary classifications in 60G57

Barral, Julien (*with* Mandelbrot, Benoît B.) Introduction to infinite products of independent random functions (Random multiplicative multifractal measures. I). (English summary) **2005i:28013**
— (*with* Mandelbrot, Benoît B.) Non-degeneracy, moments, dimension, and multifractal analysis for random multiplicative measures (Random multiplicative multifractal measures. II). (English summary) **2005i:28014**
— Techniques for the study of infinite products of independent random functions (Random multiplicative multifractal measures. III). (English summary) **2005i:28015**
— (*with* Seuret, Stéphane) Function series with multifractal variations. (English summary) **2005f:28014**
Baryshnikov, Yu. M. (*with* Yukich, J. E.) Gaussian limits for random measures in geometric probability. (English summary) **2005j:60043**
Beneš, Viktor *see* **Pawlas, Zbyněk**, 2005g:60040
Cox, J. Theodore (*with* Perkins, Edwin A.) An application of the voter model–super-Brownian motion invariance principle. (English and French summaries) **2005b:60254**
Davydov, Yu. A. (*with* Zitikis, Ricărdas) The influence of deterministic noise on empirical measures generated by stationary processes. (English summary) **2005e:60080**
Dawson, Donald A. (*with* Li, Zeng Hu) Construction of immigration superprocesses with dependent spatial motion from one-dimensional excursions. (English summary) **2005i:60163**
— (*with* Li, Zeng Hu; Zhou, Xiao Wen) Superprocesses with coalescing Brownian spatial motion as large-scale limits. (English summary) **2005k:60269**
— (*with* Li, Zeng Hu; Schmuland, Byron; Sun, Wei[3]) Generalized Mehler semigroups and catalytic branching processes with immigration. (English summary) **2005d:60122**
Delmas, Jean-François Computation of moments for the length of the one dimensional ISE support. (English summary) **2005c:60101**
Diop, Aliou (*with* Guégan, Dominique) Asymptotic behavior for the extreme values of a linear regression model. (English summary) **2005g:62115**
Dorogovtsev, Andrei A. Stochastic differential equations and random measures in function spaces. (Russian) **2005k:60177**
— Measure-valued Markov processes and stochastic flows on abstract spaces. (English summary) **2005i:60106**
Engländer, János An example and a conjecture concerning scaling limits of superdiffusions. (English summary) **2005a:60131**
— Large deviations for the growth rate of the support of supercritical super-Brownian motion. (English summary) **2005b:60224**
Etheridge, Alison M. (*with* Fleischmann, Klaus) Compact interface property for symbiotic branching. (English summary) **2005j:60181**
Evans, Steven N. *see* **Steinsaltz, David et al.**, 2005m:92045
Fleischmann, Klaus (*with* Sturm, A. K.) A super-stable motion with infinite mean branching. (English and French summaries) **2005h:60254**
— (*with* Swart, Jan M.) Trimmed trees and embedded particle systems. (English summary) **2005m:60190**
— *see also* **Etheridge, Alison M.**, 2005j:60181
Fu, Zongfei (*with* Li, Zeng Hu) Measure-valued diffusions and stochastic equations with Poisson process. **2005k:60253**
Ghorbel, M. (*with* Huillet, Thierry) Fragment size distributions in random fragmentations with cutoff. (English summary) **2005i:62041**
Guégan, Dominique *see* **Diop, Aliou**, 2005g:62115
Horbacz, Katarzyna Random dynamical systems with jumps. (English summary) **2005e:37113**
Hug, Daniel (*with* Last, Günter; Weil, Wolfgang) A local Steiner-type formula for general closed sets and applications. (English summary) **2005a:53130**
Huillet, Thierry On a deposition process on the circle with disorder. (English summary)
— *see also* **Ghorbel, M.**, 2005i:62041
Ishwaran, Hemant (*with* James, Lancelot F.) Some further developments for stick-breaking priors: finite and infinite clustering and classification. (English summary) **2005a:62147**
Ivanov, Vladimir Nikolaevich (*with* Ol'shanskiĭ, Grigoriĭ) Kerov's central limit theorem for the Plancherel measure on Young diagrams. (English summary) **2005d:05148**
James, Lancelot F. *see* **Ishwaran, Hemant**, 2005a:62147
Kang, Hye-Jeong *see* **Kwon, Youngmee**, 2005k:60181
Kruk, Łukasz (*with* Lehoczky, John; Shreve, Steven E.; Yeung, Shu-Ngai) Earliest-deadline-first service in heavy-traffic acyclic networks. (English summary) **2005j:60171**
Kulik, A. M. Anticipating linear stochastic differential equations by Poisson random measures. (English summary) **2005b:60160**
Kwon, Youngmee (*with* Kang, Hye-Jeong) A class of nonlinear stochastic differential equations (SDES) with jumps derived by particle representations. (English summary) **2005k:60181**
de La Fortelle, Arnaud The large-deviation principle for Markov chains with continuous time. (Russian. Russian summary) **2005h:60078**
Last, Günter *see* **Hug, Daniel et al.**, 2005a:53130
Lehoczky, John *see* **Kruk, Łukasz et al.**, 2005j:60171
Li, Zeng Hu (*with* Lu, Guan Hua[2]; Wang, Hao[5]) Immigration superprocesses with dependent spatial motion and non-critical branching. (Chinese. English and Chinese summaries) **2005j:60159**
— (*with* Wang, Zi Kun[1]) Generalized Mehler semigroups and Ornstein-Uhlenbeck processes arising from superprocesses over the real line. (English summary) **2005m:60191**
— (*with* Wang, Hao[5]; Xiong, Jie) A degenerate stochastic partial differential equation for superprocesses with singular interaction. (English summary) **2005k:60197**

— *see also* **Dawson, Donald A. et al., 2005d:60122; 2005i:60163; 2005k:60269** *and* **Fu, Zongfei, 2005k:60253**
Lu, Guan Hua[2] *see* **Li, Zeng Hu et al., 2005j:60159**
Lytvynov, Eugene The square of white noise as a Jacobi field. (English summary) **2005m:60152**
Mandelbrot, Benoît B. *see* **Barral, Julien, 2005i:28013** *and* **2005i:28014**
Mörters, Peter (*with* Shieh, Narn-Rueih) On the multifractal spectrum of the branching measure on a Galton-Watson tree. (English summary) **2005k:60275**
Øksendal, Bernt K. (*with* Proske, Frank) White noise of Poisson random measures. (English summary) **2005i:60134**
Ol′shanskiĭ, Grigoriĭ *see* **Ivanov, Vladimir Nikolaevich, 2005d:05148**
Patzschke, Norbert The tangent measure distribution of self-conformal fractals. (English summary) **2005f:28019**
Pawlas, Zbyněk (*with* Beneš, Viktor) On the central limit theorem for the stationary Poisson process of compact sets. (English summary) **2005g:60040**
Perkins, Edwin A. *see* **Cox, J. Theodore, 2005b:60254**
Proske, Frank *see* **Øksendal, Bernt K., 2005i:60134**
Ren, Yan-Xia Support properties of super-Brownian motions with spatially dependent branching rate. (English summary) **2005e:60197**
Rüdiger, Barbara Stochastic integration with respect to compensated Poisson random measures on separable Banach spaces. (English summary) **2005h:60159**
Sato, Ken-iti Stochastic integrals in additive processes and application to semi-Lévy processes. **2005a:60084**
Schmuland, Byron *see* **Dawson, Donald A. et al., 2005d:60122**
Seuret, Stéphane *see* **Barral, Julien, 2005f:28014**
Shieh, Narn-Rueih *see* **Mörters, Peter, 2005k:60275**
Shreve, Steven E. *see* **Kruk, Łukasz et al., 2005j:60171**
Steinsaltz, David (*with* Evans, Steven N.; Wachter, Kenneth W.) A generalized model of mutation-selection balance with applications to aging. (English summary) **2005m:92045**
Sturm, A. K. *see* **Fleischmann, Klaus, 2005h:60254**
Sun, Wei[3] *see* **Dawson, Donald A. et al., 2005d:60122**
Swart, Jan M. *see* **Fleischmann, Klaus, 2005m:60190**
Urbanik, K. Musielak-Orlicz spaces and prediction problems. (English summary) **2005m:60081**
Vershik, A. M. Random and universal metric spaces. (Russian. Russian summary) **2005g:60018**
Wachter, Kenneth W. *see* **Steinsaltz, David et al., 2005m:92045**
Wang, Hao[5] *see* **Li, Zeng Hu et al., 2005j:60159** *and* **2005k:60197**
Wang, Xia[3] (*with* Yang, Xiao Hua) Approximation result for SDE with non-Lipschitz coefficients. (English and Chinese summaries) **2005k:60217**
Wang, Zi Kun[1] *see* **Li, Zeng Hu, 2005m:60191**
Weil, Wolfgang *see* **Hug, Daniel et al., 2005a:53130**
Wu, Li Ming[1] Estimate of spectral gap for continuous gas. (English and French summaries) **2005e:82007**
Xie, Yingchao Vague convergence of semimartingale random measures. (English summary) **2005b:60116**
Xiong, Jie A stochastic log-Laplace equation. (English summary) **2005e:60137**
— (*with* Zhou, Xiao Wen) On the duality between coalescing Brownian motions. (English summary) **2005m:60187**
— *see also* **Li, Zeng Hu et al., 2005k:60197**
Yang, Xiao Hua *see* **Wang, Xia[3], 2005k:60217**
Yeung, Shu-Ngai *see* **Kruk, Łukasz et al., 2005j:60171**
Yukich, J. E. *see* **Baryshnikov, Yu. M., 2005j:60043**
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Zitikis, Ričardas *see* **Davydov, Yu. A., 2005e:60080**

60G60 Random fields

Abadi, Miguel (*with* Chazottes, J.-R.; Redig, Frank; Verbitskiĭ, E. A.) Exponential distribution for the occurrence of rare patterns in Gibbsian random fields. (English summary) **2005b:60129**
Abbaoui, Lyazid (*with* Debbi, Latifa) An application of the nonselfadjoint operators theory in the study of stochastic processes. **2005g:60082**
Aggoun, Lakhdar Partially observed space-time Markov random fields and their applications. (English summary) **2005a:60075**
Angulo, J. M. *see* **Ruiz-Medina, M. D. et al., 2005a:60078** *and* **2005h:60149**
Anh, V. V. (*with* Leonenko, N. N.; Moldavs′ka, E. N.; Sakhno, L. M.) Estimation of spectral densities with multiplicative parameter. (English summary) **2005f:60117**
— *see also* **Ruiz-Medina, M. D. et al., 2005a:60078** *and* **2005h:60149**
Beghin, Luisa On the maximum of some conditional and integrated Gaussian fields and their statistical applications. (English summary) **2005m:60107**
Benassi, Albert (*with* Cohen, Serge; Istas, Jacques) On roughness indices for fractional fields. (English summary) **2005c:60066**
Chazottes, J.-R. *see* **Abadi, Miguel et al., 2005b:60129**
Cohen, Serge *see* **Benassi, Albert et al., 2005c:60066**
Dalang, Robert C. (*with* Khoshnevisan, Davar) Recurrent lines in two-parameter isotropic stable Lévy sheets. (English summary) **2005m:60108**
Debbi, Latifa *see* **Abbaoui, Lyazid, 2005g:60082**
Dedić, Ljuban Poisson random fields with control measures. II. (English summary) **2005c:60067**
Diamond, Phil (*with* Kloeden, Peter E.; Vladimirov, Igor) Mean anisotropy of homogeneous Gaussian random fields and anisotropic norms of linear translation-invariant operators on multidimensional integer lattices. (English summary) **2005k:60156**
Farshidi, J. *see* **Hurd, Harry et al., 2005f:60118**
Fernández, Roberto (*with* Le Ny, Arnaud; Redig, Frank) Restoration of Gibbsianness for projected and FKG renormalized measures. (English summary) **2005a:60076**
Gaşpar, Păstorel On operator periodically correlated random fields. (English summary) **2005j:60101**
Hatamleh, Rae'd On the form of correlation function for a class of nonstationary field with a zero spectrum. (English summary) **2005d:60082**
Hurd, Harry (*with* Kallianpur, G.; Farshidi, J.) Correlation and spectral theory for periodically correlated random fields indexed on $\mathbf{Z}^2$. (English summary) **2005f:60118**
Īl′chenko, S. A. *see* **Mīshura, Yulīya, 2005k:60159**
Istas, Jacques *see* **Benassi, Albert et al., 2005c:60066**
Jona-Lasinio, Giovanni Self-similar random fields: from Kolmogorov to renormalization group. (English summary) (*see* **2005a:00023**)
Kallianpur, G. *see* **Hurd, Harry et al., 2005f:60118**
Kelbert, M. Ya. (*with* Rachev, Svetlozar T.; Sukhov, Yu. M.) The maximum of a tree-indexed random process, with applications. (English summary) **2005d:60083**
— (*with* Leonenko, N. N.; Ruiz-Medina, M. D.) Fractional random fields associated with stochastic fractional heat equations. (English summary) **2005m:60109**
Khoshnevisan, Davar *see* **Dalang, Robert C., 2005m:60108**
Kim, Hyun-Chull *see* **Ko, Mi Hwa et al., 2005i:60096**
Kim, Tae-Sung[1] *see* **Ko, Mi Hwa et al., 2005i:60096**
Kloeden, Peter E. *see* **Diamond, Phil et al., 2005k:60156**
Ko, Mi Hwa (*with* Kim, Tae-Sung[1]; Kim, Hyun-Chull) Strong laws of large numbers for asymptotically quadrant independent random fields. (English summary) **2005i:60096**
Kolodiĭ, N. A. Some properties of random fields associated with stochastic integrals with respect to strong martingales. (Russian. English and Russian summaries) **2005k:60157**
Külske, Christof (*with* Le Ny, Arnaud; Redig, Frank) Relative entropy and variational properties of generalized Gibbsian measures. (English summary) **2005b:60130**
Le Ny, Arnaud *see* **Fernández, Roberto et al., 2005a:60076** *and* **Külske, Christof et al., 2005b:60130**
Leonenko, N. N. *see* **Anh, V. V. et al., 2005f:60117** *and* **Kelbert, M. Ya. et al., 2005m:60109**
Louis, Pierre-Yves Ergodicity of PCA: equivalence between spatial and temporal mixing conditions. (English summary) **2005k:60158**
Ma, Chunsheng Power-law correlations and other models with long-range dependence on a lattice. (English summary) **2005f:60119**
Malyarenko, A. A. The exact Hausdorff measure of random sets connected with isotropic Gaussian random fields. (English summary) **2005a:60077**
Meiring, Wendy *see* **Perrin, Olivier, 2005h:60148**
Mīshura, Yulīya (*with* Īl′chenko, S. A.) Itô's formula for fractional Brownian fields. (Ukrainian. Ukrainian summary) **2005k:60159**
Miyoshi, Naoto A note on bounds and monotonicity of spatial stationary Cox shot noises. (English summary) **2005j:60102**
Moklyachuk, M. P. (*with* Shchestyuk, N. Yu.) Extrapolation of random fields observed with noise. (Ukrainian. English summary) **2005f:60120**
Moldavs′ka, E. N. *see* **Anh, V. V. et al., 2005f:60117**
Mountford, Thomas S. (*with* Nualart, Eulalia) Level sets of multiparameter Brownian motions. (English summary) **2005g:60083**
Nualart, Eulalia *see* **Mountford, Thomas S., 2005g:60083**
Pedersen, Jan (*with* Sato, Ken-iti) Relations between cone-parameter Lévy processes and convolution semigroups. (English summary) **2005f:60121**
Perrin, Olivier (*with* Meiring, Wendy) Nonstationarity in $\mathbb{R}^n$ is second-order stationarity in $\mathbb{R}^{2n}$. (English summary) **2005h:60148**
Poryvaĭ, D. V. Density in the subspace $D([0,1]^d)$ of a certain class of partial-sum processes. (Russian. Russian summary) **2005i:60097**
Rachev, Svetlozar T. *see* **Kelbert, M. Ya. et al., 2005d:60083**
Redig, Frank *see* **Fernández, Roberto et al., 2005a:60076**; **Abadi, Miguel et al., 2005b:60129** *and* **Külske, Christof et al., 2005b:60130**
Ruiz-Medina, M. D. (*with* Angulo, J. M.; Anh, V. V.) Fractional random fields on domains with fractal boundary. (English summary) **2005h:60149**
— (*with* Anh, V. V.; Angulo, J. M.) Fractional generalized random fields of variable order. (English summary) **2005a:60078**
— *see also* **Kelbert, M. Ya. et al., 2005m:60109**
Sakhno, L. M. *see* **Anh, V. V. et al., 2005f:60117**
Sato, Ken-iti *see* **Pedersen, Jan, 2005f:60121**
Schmuland, Byron (*with* Sun, Wei[3]) A central limit theorem and law of the iterated logarithm for a random field with exponential decay of correlations. (English summary) **2005f:60122**
Schreiber, Bertram M. Asymptotically stationary processes on amenable groups. (English summary) **2005m:60110**
Semenovs′ka, N. V. (*with* Yadrenko, M. Ĭ.) Explicit extrapolation formulas for some correlation models of homogeneous and isotropic random fields. (Ukrainian. Ukrainian summary) **2005k:60160**
Shafie, K. (*with* Sigal, B.; Siegmund, David O.; Worsley, K. J.) Rotation space random fields with an application to fMRI data. (English summary) **2005i:60098**
Shalizi, Cosma Rohilla Optimal nonlinear prediction of random fields on networks. (English summary) **2005k:60161**
Shashkin, A. P. Maximal inequality for a weakly dependent random field. (Russian. Russian summary) **2005e:60107**
— The invariance principle for a class of weakly dependent random fields. (Russian. Russian summary) **2005k:60162**
Shat·skikh, S. Ya. Some properties of conditional distributions corresponding to generalized random fields. (Russian. English and Russian summaries) **2005i:60099**
Shaw, Jason T. Random fields and the limit of their spectral densities: existence and bounds. (English summary) **2005f:60123**
Shchestyuk, N. Yu. *see* **Moklyachuk, M. P., 2005f:60120**
Shevlyakov, A. Yu. (*with* Zolotaya, Aelita V.) On a problem of random fields filtering. (English summary) **2005b:60131**
Siegmund, David O. *see* **Shafie, K. et al., 2005i:60098**
Sigal, B. *see* **Shafie, K. et al., 2005i:60098**
Sukhov, Yu. M. *see* **Kelbert, M. Ya. et al., 2005d:60083**
Sun, Wei[3] *see* **Schmuland, Byron, 2005f:60122**
Swift, Randall J. Classes of harmonizable isotropic random fields. (English summary) **2005e:60108**
Takenaka, Shigeo Linearly additive random fields with independent increments on time-like curves. (English summary) **2005c:60068**
Verbitskiĭ, E. A. *see* **Abadi, Miguel et al., 2005b:60129**
Vladimirov, Igor *see* **Diamond, Phil et al., 2005k:60156**

Worsley, K. J. *see* **Shafie, K. et al., 2005i:60098**
Xu, Ye Ji Linear prediction theory of a homogeneous random field with continuous parameters. (Chinese. English and Chinese summaries) **2005d:60084**
Yadrenko, M. Ĭ. *see* **Semenovs'ka, N. V., 2005k:60160**
Yuan, Yu Ze Precise asymptotics in the law of iterated logarithm for random fields. (Chinese. English and Chinese summaries) **2005m:60111**
Zheng, Shui Cao The exact Hausdorff function of a generalized α-stable process. (Chinese. English and Chinese summaries) **2005h:60150**
Zolotaya, Aelita V. *see* **Shevlyakov, A. Yu., 2005b:60131**

Items with secondary classifications in 60G60

Adler, Robert J. Gaussian random fields on manifolds. (English summary) **2005i:58043**
— *see also* Taylor, Jonathan E., 2005g:58072
Agrawal, Om Prakash Response of a diffusion-wave system subjected to deterministic and stochastic fields. (English summary) **2005d:35125**
Al'beverio, S. (*with* Kondrat'ev, Yu. G.; Pasurek, Tatiana; Röckner, Michael) Euclidean Gibbs measures on loop lattices: existence and a priori estimates. (English summary) **2005b:82007**
Arnold, Ludwig (*with* Chueshov, Igor D.; Ochs, Gunter) Stability and capsizing of ships in random sea—a survey. (English summary) **2005g:76022**
Ayache, Antoine Hausdorff dimension of the graph of the fractional Brownian sheet. (English summary) **2005h:60106**
Bardina, Xavier (*with* Márquez-Carreras, David; Rovira, Carles; Tindel, Samy) Higher order expansions for the overlap of the SK model. (English summary) **2005i:82030**
Beĭnenson, L. B. Monotonically nonincreasing random fields on partially ordered sets. II. Probability distributions on polyhedral cones. (Russian. English and Russian summaries) **2005g:28004**
Bulinskiĭ, A. V. A statistical version of the central limit theorem for vector-valued random fields. (Russian. Russian summary) **2005i:60015**
Bursztyn, Dizza *see* **Steinberg, David M., 2005f:62047**
Čepulėnas, S. On large deviations for additive vector-valued functions of a Markov Gaussian field. (Russian. English, Russian and Lithuanian summaries) **2005e:60056**
Chen, Louis H. Y. (*with* Shao, Qi-Man) Normal approximation under local dependence. (English summary) **2005f:60054**
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Chueshov, Igor D. *see* **Arnold, Ludwig et al., 2005g:76022**
Cuesta-Albertos, Juan A. (*with* Wschebor, Mario) Condition numbers and extrema of random fields. (English summary) **2005i:15039**
Dai Pra, Paolo (*with* Rœlly, S.) An existence result for infinite-dimensional Brownian diffusions with non-regular and non-Markovian drift. (English summary) **2005i:60150**
Dalang, Robert C. (*with* Nualart, Eulalia) Potential theory for hyperbolic SPDEs. (English summary) **2005f:60163**
Danilov, Sergey Non-universal features of forced 2D turbulence in the energy and enstrophy ranges. (English summary) **2005h:76043**
Dawson, Donald A. (*with* Gorostiza, Luis G.; Wakolbinger, Anton) Hierarchical equilibria of branching populations. (English summary) **2005i:60164**
De Donno, Marzia (*with* Pratelli, Maurizio) On the use of measure-valued strategies in bond markets. (English summary) **2005e:60112**
De Oliveira, Victor Bayesian inference and prediction of Gaussian random fields based on censored data. (English summary)
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Descombes, Xavier (*with* Zhizhina, E. A.) Application of the methods of the theory of Gibbs random fields to problems of image processing. (Russian. Russian summary) **2005j:94005**
Dimitrakopoulos, Roussos (*with* Luo, Xiaochun) Generalized sequential Gaussian simulation on group size v and screen-effect approximations for large field simulations. (English summary) **2005d:86012**
Dinculeanu, Nicolae Process-measures and their stochastic integral. **2005e:60113**
Dovgaĭ, B. V. Justification of the Fourier method for an inhomogeneous hyperbolic equation with a random right-hand side. (Ukrainian. English and Ukrainian summaries) **2005h:35380**
Dvoenko, S. D. (*with* Kopylov, A. V.; Mottl', V. V.) Pattern recognition problems in arrays of interconnected objects. Statement of the recognition problem and basic assumptions. (Russian. Russian summary) **2005d:68120**
Ehm, Werner (*with* Genton, Marc G.; Gneiting, Tilmann) Errata: "Stationary covariances associated with exponentially convex functions" [Bernoulli **9** (2003), no. 4, 607–615; MR1996272 (2004c:62151)]. **2005a:62164**
Elishakoff, Isaac (*with* Ren, Yongjian) ★ Finite element methods for structures with large stochastic variations. **2005d:65001**
van Enter, Aernout C. D. (*with* Verbitskiĭ, E. A.) On the variational principle for generalized Gibbs measures. (English summary) **2005h:82003**
Fatalov, V. R. Constants in the asymptotics of small deviation probabilities for Gaussian processes and fields. (Russian. Russian summary) **2005a:60052**
Fernández, Roberto (*with* Maillard, Grégory) Chains with complete connections and one-dimensional Gibbs measures. (English summary) **2005a:60047**
— (*with* Maillard, Grégory) Chains and specifications. (English summary) **2005e:60078**
Garet, Olivier (*with* Marchand, Régine) Asymptotic shape for the chemical distance and first-passage percolation on the infinite Bernoulli cluster. (English summary) **2005i:60195**
— Percolation transition for some excursion sets. (English summary) **2005m:60232**
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— (*with* Si, Si) ★ An innovation approach to random fields. **2005k:60006**
Hoffman, Christopher A family of nonisomorphic Markov random fields. (English summary) **2005m:60234**
den Hollander, Frank Gibbs under stochastic dynamics? (English summary)
Hu, Bill X. (*with* Wu, Jichun; He, Changming) On stochastic modeling of groundwater flow and solute transport in multi-scale heterogeneous formations. (English summary)
Huang, Hui Lin *see* **Yang, Wei Guo[1] et al.**
Il'chenko, S. A. (*with* Mīshura, Yulīya) Generalized two-parameter Lebesgue-Stieltjes integrals and their applications to fractional Brownian fields. (Ukrainian. English and Ukrainian summaries) **2005i:60068**
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Kolbjørnsen, Odd (*with* Omre, Henning) Bayesian inversion of piecewise affine operators in a Gaussian framework. (English summary)
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Kopylov, A. V. *see* **Dvoenko, S. D. et al., 2005d:68120**
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Küneth, T. Large deviations for random fields on $\mathbf{Z}^d$ with unbounded interaction. (English summary) **2005i:60044**
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Lahiri, Soumendra N. Central limit theorems for weighted sums of a spatial process under a class of stochastic and fixed designs. (English summary) **2005f:60060**
— *see also* Nordman, Daniel J., 2005h:62127
Lakshtanov, E. L. (*with* Minlos, Robert) The spectrum of two-particle bound states of transfer matrices of Gibbs fields (an isolated bound state). (Russian. Russian summary) **2005g:82079**
Léandre, Rémi Markov property and operads. (English summary) **2005f:58073**
Le Ny, Arnaud (*with* Redig, Frank) Large deviation principle at fixed time in Glauber evolutions. (English summary) **2005h:60300**
Leonenko, N. N. (*with* Taufer, E.) On the rate of convergence to the normal law of LSE in regression with long range dependence. (English and Italian summaries) **2005k:60097**
Lévy, Thierry Yang-Mills measure on compact surfaces. (English summary) **2005a:58016**
Li, Wenbo V. (*with* Shao, Qi-Man) Lower tail probabilities for Gaussian processes. (English summary) **2005f:60094**
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Marchand, Régine *see* **Garet, Olivier, 2005i:60195**
Markov, Konstantin (*with* Ilieva, Keranka) A generalization of the Voigt-Reuss bounds for a binary medium. (English summary)
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Perone Pacifico, M. (*with* Genovese, Christopher R.; Verdinelli, Isabella; Wasserman, Larry) False discovery control for random fields. (English summary) **2005g:62080**
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Pratelli, Maurizio *see* **De Donno, Marzia, 2005e:60112**
Protasov, A. V. (*with* Ogorodnikov, V. A.) Dynamic probabilistic method of numerical modeling of stochastic multidimensional fields. (English summary) (*see* **2005i:65006**)
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Reeves, Robert W. (*with* Pettitt, A. N.) Efficient recursions for general factorisable models. (English summary)
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Roy, Ram Babu On random mappings and its limit distributions. (English summary)
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Shirai, Tomoyuki (*with* Takahashi, Yoichiro) Random point fields associated with fermion, boson and other statistics. (English summary) (*see* **2005a:60007**)

Si, Si *see* **Hida, Takeyuki, 2005k:60006**

Somersalo, Erkki *see* **Kaipio, Jari P., 2005g:65001**

Spătaru, Aurel Exact asymptotics in log log laws for random fields. (English summary) **2005i:60053**

Stamatović, Siniša Limit theorem for high level A-upcrossings by χ-process. **2005d:60061**

Steinberg, David M. (*with* Bursztyn, Dizza) Data analytic tools for understanding random field regression models. (English summary) **2005f:62047**

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Takemura, Akimichi (*with* Kuriki, Satoshi) Tail probability via the tube formula when the critical radius is zero. (English summary) **2005g:60027**

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Taufer, E. *see* **Leonenko, N. N., 2005k:60097**

Taylor, Jonathan E. (*with* Adler, Robert J.) Euler characteristics for Gaussian fields on manifolds. (English summary) **2005g:58072**

Terdik, György (*with* Woyczyński, Wojbor A.) Notes on fractional Ornstein-Uhlenbeck random sheets. (English summary) **2005m:62178**

Tindel, Samy *see* **Bardina, Xavier et al., 2005i:82030**

Toth, Daniell Adding interior points to an existing Brownian sheet lattice. (English summary) **2005c:60040**

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Wakolbinger, Anton *see* **Dawson, Donald A. et al., 2005i:60164**

Wasserman, Larry *see* **Perone Pacifico, M. et al., 2005g:62080**

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Wschebor, Mario Smoothed analysis of $\kappa(A)$. (English summary) **2005g:15041**

— *see also* **Cuesta-Albertos, Juan A., 2005i:15039**

Wu, Jichun *see* **Hu, Bill X. et al.**

Xu, Ye Ji Linear prediction theory of a homogeneous random field with discrete parameters. IX. (Chinese. English and Chinese summaries) **2005i:62137**

Yang, Wei Guo[1] (*with* Huang, Hui Lin; Ma, Yue[3]) Strong law of large numbers for Markov chain fields on an even-odd tree. (Chinese. English and Chinese summaries)

Zalesskiĭ, B. A. Gibbs classifiers. (Russian. Russian summary) **2005i:62096**

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Balakrishnan, Narayanaswamy (*with* Stepanov, Aleksei Vasil′evich) A note on: "Asymptotic behaviour of a number of repeated records" [Statist. Probab. Lett. **35** (1997), no. 1, 49–58, MR1467708 (98e:60074)] by E. Khmaladze, M. Nadareishvili and A. Nikabadze. (English summary) **2005c:60069**

Barbe, Ph. (*with* McCormick, William P.) Second-order expansion for the maximum of some stationary Gaussian sequences. (English summary) **2005c:60070**

Beirlant, Jan (*with* Raoult, J.-P.; Worms, R.) On the relative approximation error of the generalized Pareto approximation for a high quantile. (English summary) **2005m:60112**

Bieniek, Mariusz (*with* Szynal, Dominik) Limit distributions of differences and quotients of non-adjacent k-th record values. (English summary) **2005m:60113**

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Eliazar, Iddo On geometric record times. (English summary) **2005j:60103**

Girard, Stéphane (*with* Jacob, Pierre M.) Extreme values and kernel estimates of point processes boundaries. (English summary) **2005h:60151**

Gomes, M. Ivette (*with* de Haan, Laurens; Pestana, Dinis) Joint exceedances of the arch process. (English summary) **2005e:60109**

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Heffernan, Janet E. (*with* Resnick, Sidney I.) Hidden regular variation and the rank transform. (English summary)

Hernandez-Campos, Felix (*with* Jeffay, Kevin; Park, Cheolwoo; Marron, J. S.; Resnick, Sidney I.) Extremal dependence: internet traffic applications. (English summary)

Hetman, Paulina Survival probability approach to the relaxation of a macroscopic system in the defect-diffusion framework. (English summary) **2005m:60114**

Hult, Henrik (*with* Lindskog, Filip) Extremal behavior of regularly varying stochastic processes. (English summary) **2005j:60104**

Hüsler, Jürg (*with* Piterbarg, Vladimir I.; Seleznev, O. V.) On convergence of the uniform norms for Gaussian processes and linear approximation problems. (English summary) **2005b:60132**

Jacob, Pierre M. *see* **Girard, Stéphane, 2005h:60151**

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Jordanova, Pavlina K. *see* **Pancheva, E. I., 2005k:60165**

(Khmaladze, Estate V.) *see* **Balakrishnan, Narayanaswamy, 2005c:60069**

Kunin, Boris I. Extreme value type distributions with bounded support. (English summary) **2005c:60071**

Laurini, Fabrizio (*with* Tawn, Jonathan A.) New estimators for the extremal index and other cluster characteristics. (English summary)

Lindskog, Filip *see* **Hult, Henrik, 2005j:60104**

Marron, J. S. *see* **Hernandez-Campos, Felix et al.**

Mathew, George Limit points of independent copies of sample maxima. (English summary) **2005k:60163**

McCormick, William P. *see* **Barbe, Ph., 2005c:60070**

Mitov, Kosto V. (*with* Pakes, Anthony G.; Yanev, George P.) Extremes of geometric variables with applications to branching processes. (English summary) **2005k:60164**

— *see also* **Nadarajah, Saralees, 2005m:60115**

Mladenović, Pavle Double arrays of random variables and extreme value distributions. (English summary) **2005a:60079**

Nadarajah, Saralees (*with* Mitov, Kosto V.) Extremal limit laws for discrete random variables. **2005m:60115**

(Nadareishvili, M.) *see* **Balakrishnan, Narayanaswamy, 2005c:60069**

(Nikabadze, A.) *see* **Balakrishnan, Narayanaswamy, 2005c:60069**

Pakes, Anthony G. *see* **Mitov, Kosto V. et al., 2005k:60164**

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Piterbarg, Vladimir I. *see* **Hüsler, Jürg et al., 2005b:60132**

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Resnick, Sidney I. *see* **Hernandez-Campos, Felix et al.** *and* **Heffernan, Janet E.**

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Seleznev, O. V. *see* **Hüsler, Jürg et al., 2005b:60132**

Sisson, Scott (*with* Coles, Stuart) Modelling dependence uncertainty in the extremes of Markov chains. (English summary)

Smith, Richard L. *see* **Zhang, Zhengjun, 2005h:60152**

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Szynal, Dominik *see* **Bieniek, Mariusz, 2005m:60113**

Tawn, Jonathan A. *see* **Laurini, Fabrizio**

Tomkins, R. J. Relative stability of weighted maxima of bounded i.i.d. random variables. (English summary) **2005a:60080**

Wang, Yue Bao (*with* Yang, Yang) A general law of precise asymptotics for the counting process of record times. (English summary) **2005a:60081**

Worms, R. *see* **Beirlant, Jan et al., 2005m:60112**

Yanev, George P. *see* **Mitov, Kosto V. et al., 2005k:60164**

Yang, Yang *see* **Wang, Yue Bao, 2005a:60081**

Zachary, Stan A note on Veraverbeke's theorem. (English summary) **2005d:60085**

Zhang, Zhengjun (*with* Smith, Richard L.) The behavior of multivariate maxima of moving maxima processes. (English summary) **2005h:60152**

Items with secondary classifications in 60G70

Adler, Robert J. Gaussian random fields on manifolds. (English summary) **2005i:58043**

— *see also* **Taylor, Jonathan E., 2005g:58072**

Ahmadi, Jafar (*with* Balakrishnan, Narayanaswamy) Confidence intervals for quantiles in terms of record range. (English summary) **2005g:62084**

Ahsanullah, Mohammad (*with* Bhatti, Muhammad I.) On prediction of Olympic records using extreme value distribution. (English summary) **2005c:62092**

— *see also* **Wesołowski, Jacek, 2005f:62083**

Albin, J. M. P. (*with* Samorodnitsky, Gennady) On overload in a storage model, with a self-similar and infinitely divisible input. (English summary) **2005e:60085**

— On sampling of stationary increment processes. (English summary) **2005k:60115**

Arratia, Richard (*with* Liggett, Thomas M.) How likely is an i.i.d. degree sequence to be graphical? (English summary) **2005m:05201**

Azaïs, Jean-Marc (*with* Wschebor, Mario) On the distribution of the maximum of a Gaussian field with d parameters. (English summary) **2005k:60117**

Balakrishnan, Narayanaswamy *see* **Ahmadi, Jafar, 2005g:62084**

Beirlant, Jan (*with* Goegebeur, Yuri; Teugels, Józef L.; Segers, Johan) ★ Statistics of extremes. **2005j:62002**

Ben Alaya, Mohamed (*with* Huillet, Thierry) On max-multiscaling distributions as extended max-semistable ones. (English summary) **2005h:60046**

Bhatti, Muhammad I. *see* **Ahsanullah, Mohammad, 2005c:62092**

Borst, S. C. *see* **Dębicki, Krzysztof et al., 2005h:60108** *and* **Zwart, Bert et al., 2005m:60076**

Bovier, Anton (*with* Kurkova, Irina) Derrida's generalised random energy models. I. Models with finitely many hierarchies. (English and French summaries) **2005h:82053**

— (*with* Kurkova, Irina) Derrida's generalized random energy models. II. Models with continuous hierarchies. (English and French summaries) **2005h:82054**

Chang, Se Kyung *see* **Lee, Min Young, 2005b:62039**

Chen, Jing (*with* Chen, Yu) A central limit theorem for sums of records of a special kind of distribution. (Chinese. English and Chinese summaries) **2005f:60053**

Chen, Yu *see* **Chen, Jing, 2005f:60053**

Dębicki, Krzysztof (*with* Zwart, Bert; Borst, S. C.) The supremum of a Gaussian process over a random interval. (English summary) **2005h:60108**

— *see also* **Zwart, Bert et al., 2005m:60076**

(De Waal, Daniel) *see* **Beirlant, Jan et al., 2005j:62002**

(Ferro, Chris) *see* **Beirlant, Jan et al., 2005j:62002**

Fils, Amélie (*with* Guillou, Armelle) A new extreme quantile estimator for heavy-tailed distributions. (English and French summaries) **2005c:62093**

Gaetan, Carlo (*with* Grigoletto, Matteo) Smoothing sample extremes with dynamic models. (English summary)

Gnedin, A. V. Objectives in the best-choice problems. (English summary)

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Gumbel, Emile Julius ★ Statistics of extremes.

Gusak, D. V. Modification of the compound Poisson process. (Ukrainian. Ukrainian summary) **2005m:60095**

He, La Mei Convergence of a kind of Pickands-type estimator. (Chinese. English and Chinese summaries) **2005h:62142**

Hlubinka, Daniel Stereology of extremes; shape factor of spheroids. (English summary) **2005b:62112**

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Kurkova, Irina *see* **Bovier, Anton, 2005h:82053** *and* **2005h:82054**

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Ol'shanskiĭ, K. A. On the extremal index of a thinned autoregression process. (Russian. Russian summary) **2005k:62214**
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Raimondo, Marc E. (*with* Tajvidi, Nader) A peaks over threshold model for change-point detection by wavelets. (English summary) **2005a:62116**
Resnick, Sidney I. (*with* Samorodnitsky, Gennady) Point processes associated with stationary stable processes. (English summary) **2005i:60094**
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— *see also* **Albin, J. M. P.**, **2005e:60085** *and* **Resnick, Sidney I.**, **2005i:60094**
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Shi, Dao Ji A property of bivariate extreme value distribution. (Chinese. English and Chinese summaries) **2005e:62077**
Silvestrov, Dmitrii S. (*with* Teugels, Józef L.) Limit theorems for mixed max-sum processes with renewal stopping. (English summary) **2005i:60061**
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— *see also* **Raimondo, Marc E.**, **2005a:62116**
Tang, Qi He *see* **Ng, Kai W.**, **2005g:62034**
Taylor, Jonathan E. (*with* Adler, Robert J.) Euler characteristics for Gaussian fields on manifolds. (English summary) **2005g:58072**
Teugels, Józef L. (*with* Vanroelen, Giovanni) Box-Cox transformations and heavy-tailed distributions. (English summary) **2005e:62078**
— *see also* **Silvestrov, Dmitrii S.**, **2005i:60061** *and* **Beirlant, Jan et al.**, **2005j:62002**
Tomkins, R. J. Criteria for the almost sure stability of weighted maxima of bounded i.i.d. random variables. (English summary) **2005k:60103**
Vanroelen, Giovanni *see* **Teugels, Józef L.**, **2005e:62078**
Villarroel, Javier On a solvable diffusion with time dependent "killing". (English summary) **2005b:60213**
Wesołowski, Jacek (*with* Ahsanullah, Mohammad) Switching order statistics through random power contractions. (English summary) **2005f:62083**
— (*with* López-Blázquez, Fernando) Linearity of regression for the past weak and ordinary records. (English summary) **2005k:62045**
West, Bruce J. The least vulnerable, the most successful and other such extremes. (English summary) (*see* **2005i:00016**)
Wschebor, Mario *see* **Azaïs, Jean-Marc**, **2005k:60117**
Wüthrich, Mario V. Extreme value theory and Archimedean copulas. (English summary) **2005d:62168**
Zhang, Liping (*with* Peng, Yingning) Outlier probability of generalized chirpogram-based estimators for multicomponent polynomial-phase signals. (English summary)
Zwart, Bert (*with* Borst, S. C.; Dębicki, Krzysztof) Subexponential asymptotics of hybrid fluid and ruin models. (English summary) **2005m:60076**
— *see also* **Dębicki, Krzysztof et al.**, **2005h:60108**

60G99 None of the above, but in this section

Aldous, Anthony P. (*with* Fyodorov, Yan V.) Real roots of random polynomials: universality close to accumulation points. (English summary) **2005b:60133**
Bagh, S. (*with* Maghapatra, B. N.) On the upper bound of a the number of real roots of random algebraic equation. (English summary) [On the upper bound of the number of real roots of a random algebraic equation] **2005h:60153**
Farahmand, K. (*with* Shaposhnikov, Andrew Alexander) The expected number of level crossings of random trigonometric polynomials. (English summary) **2005k:60166**
— (*with* Opong, K.) Classes of random polynomials with non-identical coefficients. (English summary) **2005f:60124**
— (*with* Nezakati, A.) Algebraic polynomials with non-identical random coefficients. (English summary) **2005h:60154**
Fyodorov, Yan V. *see* **Aldous, Anthony P.**, **2005b:60133**
Gualtierotti, A. F. Skew-normal processes as models for random signals corrupted by Gaussian noise. (English summary)
Hochberg, Kenneth J. *see* **Shmerling, Efraim**, **2005g:60084**
Jumarie, Guy Probability density of the complex-valued fractional Brownian motion of order n via the maximum entropy principle in $\mathbf{R}_+^{1/n}$. (English summary) **2005a:60082**
Karmakar, Satyajit (*with* Key, Eric S.) Compositions of random Möbius transformations. (English summary) **2005b:60134**
Key, Eric S. *see* **Karmakar, Satyajit**, **2005b:60134**
Krasikov, Ilia (*with* Rodgers, G. J.; Tripp, C. E.) Growing random sequences. (English summary) **2005k:60167**
Krasovsky, I. V. Gap probability in the spectrum of random matrices and asymptotics of polynomials orthogonal on an arc of the unit circle. **2005d:60086**
Maghapatra, B. N. *see* **Bagh, S.**, **2005h:60153**
Mahanti, Mina Ketan Expected number of real zeros of random hyperbolic polynomial. (English summary) **2005h:60155**
Neammanee, K. (*with* Rattanawong, P.) Convergence to normal distribution of random sums. (English summary) **2005e:60110**
Nezakati, A. *see* **Farahmand, K.**, **2005h:60154**
Opong, K. *see* **Farahmand, K.**, **2005f:60124**
Pakes, Anthony G. Convergence and divergence of random series. (English summary) **2005e:60111**
Rattanawong, P. *see* **Neammanee, K.**, **2005e:60110**
Rodgers, G. J. *see* **Krasikov, Ilia et al.**, **2005k:60167**
Shaposhnikov, Andrew Alexander *see* **Farahmand, K.**, **2005k:60166**
Shmerling, Efraim (*with* Hochberg, Kenneth J.) Sturm's method in counting roots of random polynomial equations. (English summary) **2005g:60084**
Tripp, C. E. *see* **Krasikov, Ilia et al.**, **2005k:60167**
Xing, Jing Criteria for convergence of positive random series and their applications. (Chinese. English and Chinese summaries)
Zaporozhets, D. N. On computing the mean volume of random manifolds. (Russian. English and Russian summaries) **2005i:60100**

Items with secondary classifications in 60G99

Albrecher, Hansjörg (*with* Predota, Martin) On Asian option pricing for NIG Lévy processes. (English summary) **2005k:91137**
Aliev, Soltan A. Convergence of multitype continuous time branching processes. (English summary) **2005m:60188**
Ben-Naim, Eli (*with* Krapivsky, Paul L.) Random geometric series. (English summary) **2005i:11098**
Choi, Hyeong In (*with* Heath, David C.; Ku, Hyejin) Valuation and hedging of options with general payoff under transactions costs. (English summary) **2005c:91054**
Costa, Oswaldo L. V. (*with* Fragoso, Marcelo D.) Comments on: "Stochastic stability of jump linear systems" [IEEE Trans. Automat. Control **47** (2002), no. 7, 1204–1208; MR1911501] by Y. Fang and K. A. Loparo. (English summary)
Debusschere, Bert J. (*with* Najm, Habib N.; Pébay, Philippe P.; Knio, Omar M.; Ghanem, Roger G.; Le Maître, Olivier P.) Numerical challenges in the use of polynomial chaos representations for stochastic processes. (English summary) **2005h:37115**
Duchoň, Miloslav (*with* Haluška, Ján) On random Fourier series. (English summary) **2005h:42014**
(Fang, Yuguang) *see* **Costa, Oswaldo L. V.**
Fragoso, Marcelo D. *see* **Costa, Oswaldo L. V.**
Ghanem, Roger G. *see* **Debusschere, Bert J. et al.**, **2005h:37115**
Haluška, Ján *see* **Duchoň, Miloslav**, **2005h:42014**
Heath, David C. *see* **Choi, Hyeong In et al.**, **2005c:91054**
Knio, Omar M. *see* **Debusschere, Bert J. et al.**, **2005h:37115**
Krapivsky, Paul L. *see* **Ben-Naim, Eli**, **2005i:11098**
Ku, Hyejin *see* **Choi, Hyeong In et al.**, **2005c:91054**
Le Maître, Olivier P. *see* **Debusschere, Bert J. et al.**, **2005h:37115**
Li, Yun Xia[1] Distribution of values of random Dirichlet series in the right half-plane. (Chinese. English and Chinese summaries)
Liu, Xue Kun (*with* Sun, Dao Chun) On Nevanlinna defective value of some random functions. (English and Chinese summaries) **2005b:30031**
Lokk, Katrin (*with* Pärna, Kalev) On risk processes with double barriers. (English summary) **2005k:62239**
(Loparo, Kenneth A.) *see* **Costa, Oswaldo L. V.**
Nagi, Jasbir (*with* Rasmussen, Jørgen) On stochastic evolutions and superconformal field theory. (English summary) **2005m:81278**
Najm, Habib N. *see* **Debusschere, Bert J. et al.**, **2005h:37115**
Pärna, Kalev *see* **Lokk, Katrin**, **2005k:62239**
Pébay, Philippe P. *see* **Debusschere, Bert J. et al.**, **2005h:37115**
Peccati, Giovanni Hoeffding-ANOVA decompositions for symmetric statistics of exchangeable observations. (English summary) **2005j:60071**
— Anticipative stochastic integration based on time-space chaos. (English summary) **2005f:60178**
Predota, Martin *see* **Albrecher, Hansjörg**, **2005k:91137**
Pyke, Ronald (*with* van Zwet, Willem R.) Weak convergence results for the Kakutani interval splitting procedure. (English summary) **2005a:60044**
Raich, Raviv (*with* Zhou, G. Tong) Orthogonal polynomials for complex Gaussian processes. (English summary) **2005e:94016**
Rasmussen, Jørgen Stochastic evolutions in superspace and superconformal field theory. (English summary) **2005k:81286**
— *see also* **Nagi, Jasbir**, **2005m:81278**
Shiffman, Bernard (*with* Zelditch, Steve) Random polynomials with prescribed Newton polytope. **2005e:60032**
Sun, Dao Chun *see* **Liu, Xue Kun**, **2005b:30031**
Wanner, Thomas Maximum norms of random sums and transient pattern formation. (English summary) **2005a:35146**
Yu, Jia-rong Julia lines of random Dirichlet series. (English and French summaries) **2005d:60020**
Zaporozhets, D. N. On the distribution of the number of real roots of a random polynomial. (Russian. English and Russian summaries) **2005j:30006**
Zelditch, Steve *see* **Shiffman, Bernard**, **2005e:60032**
Zhou, G. Tong *see* **Raich, Raviv**, **2005e:94016**
Žitković, Gordan Utility maximization with a stochastic clock and an unbounded random endowment. (English summary) **2005h:91128**
van Zwet, Willem R. *see* **Pyke, Ronald**, **2005a:60044**

60Hxx Stochastic analysis [see also 58J65]

Items with secondary classifications in 60Hxx

(Al'beverio, S.) *see* **Proceedings: Conference on Stochastic Analysis and Applications, International**, **2005g:60007**
(Boutet de Monvel-Berthier, Anne-Marie) *see* **Proceedings: Conference on Stochastic Analysis and Applications, International**, **2005g:60007**
(Kunita, Hiroshi) *see* **Stochastic analysis and related topics in Kyoto**, **2005c:60003**
(Ouerdiane, Habib) *see* **Proceedings: Conference on Stochastic Analysis and Applications, International**, **2005g:60007**
(Rachev, Svetlozar T.) *see* **Handbook: Computational and numerical methods in finance**, **2005b:91009**
(Takahashi, Yoichiro) *see* **Stochastic analysis and related topics in Kyoto**, **2005c:60003**
(Watanabe, Shinzo) *see* **Stochastic analysis and related topics in Kyoto**, **2005c:60003**

Items listed otherwise than by author

Hammamet ★ Proceedings of the International Conference on Stochastic Analysis and Applications. **2005g:60007**

Handbook:

Computational and numerical methods in finance ★ Handbook of computational and numerical methods in finance. **2005b:91009**

Kyoto ★ Stochastic analysis and related topics in Kyoto. **2005c:60003**

Proceedings:

Conference on Stochastic Analysis and Applications, International ★ Proceedings of the International Conference on Stochastic Analysis and Applications. **2005g:60007**

Stochastic analysis and related topics in Kyoto ★ Stochastic analysis and related topics in Kyoto. **2005c:60003**

60H05 Stochastic integrals

Al'beverio, S. (*with* Rüdiger, Barbara) Stochastic integrals and the Lévy-Ito decomposition theorem on separable Banach spaces. (English summary)

Amano, Kazuo A stochastic Gronwall inequality and its applications. (English summary) **2005m:60116**

Bender, Christian The restriction of the fractional Itô integral to adapted integrands is injective. (English summary) **2005k:60168**

Biagini, Francesca (*with* Øksendal, Bernt K.) Minimal variance hedging for fractional Brownian motion. (English summary) **2005b:60135**

Breton, Jean-Christophe Convergence in variation of the laws of multiple stable integrals. (English and French summaries) **2005d:60087**

Brzeźniak, Zdzisław Some remarks on Itô and Stratonovich integration in 2-smooth Banach spaces. (English summary) **2005g:60085**

Chen, Jin Shu Properties and a convergence theorem for weak Henstock variable stochastic integrals. (Chinese. English and Chinese summaries)

Chernyĭ, A. S. *see* **Shiryaev, Albert N., 2005b:60136**

Chew, Tuan-Seng *see* **Toh, Tim-Lam, 2005k:60170**

Cornea, Aurel (*with* Licea, Gabriela) Approximation of measurable processes with continuous and with simple processes. (English summary) **2005h:60156**

Decreusefond, Laurent Stochastic integration with respect to Volterra processes. (English and French summaries) **2005m:60117**

De Donno, Marzia (*with* Pratelli, Maurizio) On the use of measure-valued strategies in bond markets. (English summary) **2005e:60112**

Dinculeanu, Nicolae Process-measures and their stochastic integral. **2005e:60113**

— (*with* Mocioalca, Oana) Summable processes versus semimartingales. (English summary) **2005d:60088**

Flandoli, Franco (*with* Gubinelli, Massimiliano) Random currents and probabilistic models of vortex filaments. (English summary) (*see* **2005f:60008**)

van Gaans, Onno A series approach to stochastic differential equations with infinite dimensional noise. (English summary) **2005m:60118**

Geiss, Christel (*with* Geiss, Stefan) On approximation of a class of stochastic integrals and interpolation. (English summary) **2005f:60125**

Geiss, Stefan *see* **Geiss, Christel, 2005f:60125**

Ghomrasni, R. (*with* Peskir, Goran) Local time-space calculus and extensions of Itô's formula. (English summary) **2005j:60106**

Gradinaru, Mihai (*with* Nourdin, Ivan) Approximation at first and second order of m-order integrals of the fractional Brownian motion and of certain semimartingales. (English summary) **2005f:60126**

Gubinelli, Massimiliano Controlling rough paths. (English summary) **2005k:60169**

— *see also* **Flandoli, Franco**, (**2005f:60008**)

Hu, Yaozhong Optimization of consumption and portfolio and minimization of volatility. (English summary) **2005h:60157**

— (*with* Øksendal, Bernt K.; Salopek, Donna Mary) Weighted local time for fractional Brownian motion and applications to finance. (English summary) **2005m:60119**

Ikeda, Nobuyuki (*with* Taniguchi, Setsuo) Quadratic Wiener functionals, Kalman-Bucy filters, and the KdV equation. (English summary) **2005h:60158**

Jeon, Jong Woo (*with* Lee, Kyu Seok; Kim, Yoon Tae) A Wong-Zakai type approximation for multiple Wiener-Stratonovich integrals. (English summary) **2005f:60127**

Kim, Yoon Tae *see* **Jeon, Jong Woo et al., 2005f:60127**

Lee, Kyu Seok *see* **Jeon, Jong Woo et al., 2005f:60127**

Licea, Gabriela *see* **Cornea, Aurel, 2005h:60156**

Mocioalca, Oana *see* **Dinculeanu, Nicolae, 2005d:60088**

Nasyrov, F. S. Function decompositions associated with Luzin N-property. (Russian. Russian summary) **2005f:60128**

van Neerven, J. M. A. M. (*with* Weis, Lutz) Stochastic integration of functions with values in a Banach space. (English summary) **2005j:60107**

Niculescu, Gheorghe Fonction de Young et continuité des trajectoires d'un processus. (French summary) [Young function and continuity of the trajectories of a process]

Nourdin, Ivan *see* **Gradinaru, Mihai, 2005f:60126**

Øksendal, Bernt K. *see* **Biagini, Francesca, 2005b:60135** *and* **Hu, Yaozhong et al., 2005m:60119**

Peskir, Goran *see* **Ghomrasni, R., 2005j:60106**

Petersen, W. P. Estimation of weak lensing parameters by stochastic integration. (English summary) **2005a:60083**

Pratelli, Maurizio *see* **De Donno, Marzia, 2005e:60112**

Rüdiger, Barbara Stochastic integration with respect to compensated Poisson random measures on separable Banach spaces. (English summary) **2005h:60159**

— *see also* **Al'beverio, S.**

Salopek, Donna Mary *see* **Hu, Yaozhong et al., 2005m:60119**

Sato, Ken-iti Stochastic integrals in additive processes and application to semi-Lévy processes. **2005a:60084**

Shiryaev, Albert N. (*with* Chernyĭ, A. S.) A vector stochastic integral and the fundamental theorem of asset pricing. (Russian. Russian summary) **2005b:60136**

Singh, Nand Kishore On generalisation of stochastic integral. (English summary) **2005h:60160**

Strasser, Eva Necessary and sufficient conditions for the supermartingale property of a stochastic integral with respect to a local martingale. (English summary) **2005b:60137**

Taniguchi, Setsuo *see* **Ikeda, Nobuyuki, 2005h:60158**

Toh, Tim-Lam (*with* Chew, Tuan-Seng) The non-uniform Riemann approach to the multiple Itô-Wiener integral. (English summary) **2005k:60170**

Wang, Rong Ming *see* **Wu, Wei Zhi et al., 2005g:60086**

Weis, Lutz *see* **van Neerven, J. M. A. M., 2005j:60107**

Wu, Wei Zhi (*with* Wang, Rong Ming; Zhang, Wen Xiu) Set valued stochastic Lebesgue-Stieltjes integrals. (Chinese. English and Chinese summaries) **2005g:60086**

Xie, Peng A remark on stochastic integrals. (Chinese. English and Chinese summaries) **2005k:60171**

Yablonskiĭ, O. L. Stochastic integrals for jumplike random processes. (Russian. English and Russian summaries)

— Stochastic integrals for random processes with independent increments. (Russian. English and Russian summaries)

Zhang, Wen Xiu *see* **Wu, Wei Zhi et al., 2005g:60086**

Items with secondary classifications in 60H05

Abundo, Mario Stopping a stochastic integral process as close as possible to the ultimate value of a functional. (English summary) **2005h:60242**

Aggoun, Lakhdar (*with* Elliott, Robert J.) ★ Measure theory and filtering. **2005k:60004**

Al'beverio, S. (*with* Ferrario, B.; Yoshida, Minoru W.) On the essential self-adjointness of Wick powers of relativistic fields and of fields unitary equivalent to random fields. (English summary) **2005c:81124**

— (*with* Kondrat'ev, Yu. G.; Pasurek, Tatiana; Röckner, Michael) Euclidean Gibbs measures on loop lattices: existence and a priori estimates. (English summary) **2005b:82007**

Ankirchner, Stefan (*with* Imkeller, Peter) Finite utility on financial markets with asymmetric information and structure properties of the price dynamics. (English and French summaries) **2005k:91139**

Applebaum, David ★ Lévy processes and stochastic calculus. **2005h:60003**

Bakstein, David *see* **Capasso, Vincenzo, 2005g:60001**

Barndorff-Nielsen, Ole E. (*with* Shephard, Neil) Corrections: "Realized power variation and stochastic volatility models" [Bernoulli **9** (2003), no. 2, 243–265; MR1997029 (2004d:91098)]. **2005b:91100**

— (*with* Graversen, Svend Erik; Shephard, Neil) Power variation and stochastic volatility: a review and some new results. (English summary) **2005e:60145**

Baudoin, Fabrice Modeling anticipations on financial markets. (English summary) **2005a:60099**

— (*with* Nualart, David) Corrigendum to: "Equivalence of Volterra processes" [Stochastic Process. Appl. **107** (2003), no. 2, 327–350; MR1999794 (2004e:60064)]. **2005j:60075**

Beghdadi-Sakrani, Samia Une martingale non pure, dont la filtration est brownienne. (English and French summaries) [A non-pure martingale with Brownian filtration] **2005g:60070**

Bélanger, Alain (*with* Shreve, Steven E.; Wong, Dennis) A general framework for pricing credit risk. (English summary) **2005j:91037**

Belton, Alexander C. R. An isomorphism of quantum semimartingale algebras. (English summary) **2005i:81077**

Bender, Christian An S-transform approach to integration with respect to a fractional Brownian motion. (English summary) **2005d:60056**

— (*with* Elliott, Robert J.) On the Clark-Ocone theorem for fractional Brownian motions with Hurst parameter bigger than a half. (English summary) **2005d:60057**

Ben Ghorbal, Anis (*with* Schürmann, Michael) Quantum stochastic calculus on Boolean Fock space. (English summary) **2005j:81089**

Bessaih, H. (*with* Flandoli, Franco) Limit behaviour of a dense collection of vortex filaments. (English summary) **2005m:76104**

Bielecki, Tomasz R. (*with* Jeanblanc-Picqué, Monique; Rutkowski, Marek) Pricing and hedging of credit risk: replication and mean-variance approaches. I. (English summary) **2005f:91064**

— (*with* Jeanblanc-Picqué, Monique; Rutkowski, Marek) Pricing and hedging of credit risk: replication and mean-variance approaches. II. (English summary) **2005f:91065**

Brzeźniak, Zdzisław (*with* Carroll, Andrew) Approximations of the Wong-Zakai type for stochastic differential equations in M-type 2 Banach spaces with applications to loop spaces. **2005a:60090**

— (*with* van Neerven, J. M. A. M.) Space-time regularity for linear stochastic evolution equations driven by spatially homogeneous noise. (English summary) **2005c:60077**

Capasso, Vincenzo (*with* Bakstein, David) ★ An introduction to continuous-time stochastic processes. **2005g:60001**

Cardon-Weber, C. (*with* Millet, A.) On strongly Petrovskiĭ's parabolic SPDEs in arbitrary dimension and application to the stochastic Cahn-Hilliard equation. (English summary) **2005f:60136**

Carrière, J. F. Martingale valuation of cash flows for insurance and interest models. (English summary)

Carroll, Andrew *see* **Brzeźniak, Zdzisław, 2005a:60090**

Chang, Fwu-Ranq ★ Stochastic optimization in continuous time. **2005b:91001**

Chew, Tuan-Seng *see* **Toh, Tim-Lam, 2005k:26024**

Comets, Francis (*with* Yoshida, Nobuo) Brownian directed polymers in random environment. (English summary) **2005m:60242**

Dettweiler, Egbert ★ Risk processes. **2005m:60003**

Doukhan, Paul (*with* León, José R.) Asymptotics for the L^p-deviation of the variance estimator under diffusion. (English summary) **2005h:62219**

Driver, Bruce K. Curved Wiener space analysis. **2005g:58066**

Duncan, Tyrone E. Some processes associated with a fractional Brownian motion. (English summary) **2005h:60109**

Dupoiron, K. (*with* Mathieu, Pierre[2]; San Martín, Jaime) Formule d'Itô pour des diffusions uniformément elliptiques, et processus de Dirichlet. (French summary) [Itô formula for uniformly elliptic diffusions and Dirichlet process] **2005e:60177**

Elliott, Robert J. *see* **Bender, Christian, 2005d:60057** *and* **Aggoun, Lakhdar, 2005k:60004**

Elworthy, K. David (*with* Li, Xue-Mei[2]) Some families of q-vector fields on path spaces. (English summary) **2005e:58059**

de Faria, Margarida (*with* Rezgui, Anis; Streit, Ludwig) Martingale approximation for self-intersection local time of Brownian motion. (English summary) **2005i:60155**
Ferrario, B. *see* **Al'beverio, S. et al., 2005c:81124**
Feyel, Denis (*with* Üstünel, Ali Süleyman) Monge-Kantorovitch measure transportation, Monge-Ampère equation and the Itô calculus. (English summary) **2005h:60161**
Flandoli, Franco *see* **Bessaih, H., 2005m:76104**
Frittelli, Marco Some remarks on arbitrage and preferences in securities market models. (English summary) **2005b:91115**
Gapeev, Pavel V. On arbitrage and Markovian short rates in fractional bond markets. (English summary) **2005m:91099**
Garcia, Jorge An extension of the contraction principle. (English summary) **2005d:60040**
Gardoń, Albert The order of approximations for solutions of Itô-type stochastic differential equations with jumps. (English summary) **2005b:60170**
Graversen, Svend Erik *see* **Barndorff-Nielsen, Ole E. et al., 2005e:60145**
Grigoriu, Mircea (*with* Samorodnitsky, Gennady) Stability of the trivial solution for linear stochastic differential equations with Poisson white noise. (English summary) **2005g:60093**
Guo, Ying *see* **Yan, Litan, 2005h:60073**
Guo, Zi Jun Stability of stochastic Lotka-Volterra systems. (Chinese. English and Chinese summaries) **2005g:60104**
Hammouch, H. Normal martingales and polynomial families. (English summary) **2005k:60133**
Hou, Chunli (*with* Karatzas, Ioannis) Least-squares approximation of random variables by stochastic integrals. (English summary) **2005g:60105**
Hudson, Robin Lyth An introduction to quantum stochastic calculus and some of its applications. (English summary) **2005i:81079**
Hugonnier, Julien (*with* Kramkov, D. O.) Optimal investment with random endowments in incomplete markets. (English summary) **2005c:91059**
— (*with* Kramkov, D. O.; Schachermayer, Walter) On utility-based pricing of contingent claims in incomplete markets. (English summary) **2005m:91105**
Īksanov, Oleksandr M. (*with* Jurek, Zbigniew J.; Schreiber, Bertram M.) A new factorization property of the selfdecomposable probability measures. (English summary) **2005b:60036**
Īl'chenko, S. A. *see* **Mīshura, Yulīya, 2005k:60159**
Imkeller, Peter *see* **Ankirchner, Stefan, 2005k:91139**
Jacod, Jean (*with* Kurtz, Thomas G.; Méléard, Sylvie; Protter, Philip E.) The approximate Euler method for Lévy driven stochastic differential equations. (English and French summaries) **2005m:60149**
Jeanblanc-Picqué, Monique *see* **Bielecki, Tomasz R. et al., 2005f:91064** *and* **2005f:91065**
Jones, Peter Wilcox (*with* Müller, P. F. X.) Conditioned Brownian motion and multipliers into SL^∞. **2005c:60108**
Jurek, Zbigniew J. *see* **Īksanov, Oleksandr M. et al., 2005b:60036**
Kaden, Svenja (*with* Potthoff, Jürgen) Progressive stochastic processes and an application to the Itô integral. (English summary) **2005b:60089**
Karatzas, Ioannis *see* **Hou, Chunli, 2005g:60105**
Kleinert, Hagen Option pricing for non-Gaussian price fluctuations. (English summary) **2005a:91060**
Kolodīĭ, N. A. Some properties of random fields associated with stochastic integrals with respect to strong martingales. (Russian. English and Russian summaries) **2005k:60157**
Kolodyński, Sławomir (*with* Rosiński, Jan) Group self-similar stable processes in $\mathbb{R}^d$. (English summary) **2005b:60104**
Kondrat'ev, Yu. G. *see* **Al'beverio, S. et al., 2005b:82007**
Kontorovich, V. Ya. *see* **Primak, Serguei et al., 2005i:60132**
Kramkov, D. O. *see* **Hugonnier, Julien et al., 2005c:91059** *and* **2005m:91105**
Kunita, Hiroshi Stochastic differential equations based on Lévy processes and stochastic flows of diffeomorphisms. **2005h:60169**
— Representation of martingales with jumps and applications to mathematical finance. (English summary) **2005h:60128**
Kurtz, David ★ Contribution à l'étude des martingales d'Azéma. (French) [Contribution to the study of Azéma algebras] **2005h:60007**
Kurtz, Thomas G. *see* **Jacod, Jean et al., 2005m:60149**
Lachout, Petr A solution of an equation for indexed functions. (English summary) **2005k:60016**
Léandre, Rémi Stochastic Wess-Zumino-Novikov-Witten model on the torus. (English summary) **2005b:58056**
Lee, Yuh-Jia (*with* Shih, Hsin-Hung) The product formula of multiple Lévy-Itô integrals. (English summary) **2005e:60103**
Lejay, Antoine An introduction to rough paths. (English summary) **2005e:60120**
León, José R. *see* **Doukhan, Paul, 2005h:62219**
Li, Jun[6] *see* **Li, Suo Ping**
Li, Suo Ping (*with* Li, Jun[6]) Stochastic optimal control of liquidity effects based on Wiener-process. (English summary)
Li, Xue-Mei[2] *see* **Elworthy, K. David, 2005e:58059**
Lindsay, J. Martin Integral-sum kernel operators. (English summary) **2005a:81113**
Lippi, Marco Issues concerning the approximation underlying the spectral representation theorem. (English summary) **2005g:60062**
Liu, Yu Qing (*with* Long, Wen Li; Wang, Chong) Two pricing models for equity-linked policy that can be transformed to traditional policy. (Chinese. English and Chinese summaries) **2005e:60146**
Long, Wen Li *see* **Liu, Yu Qing et al., 2005e:60146**
Lyandres, Vladimir *see* **Primak, Serguei et al., 2005i:60132**
Lyons, Terry (*with* Qian, Zhongmin) ★ System control and rough paths. **2005f:93001**
Mamporiya, B. I. On the existence and uniqueness of a solution to a stochastic differential equation in a Banach space. (English summary) **2005f:60134**
Mania, M. G. (*with* Tevzadze, Revaz) A semimartingale Bellman equation for the mean-variance hedging problem. (English summary)
Margulies, William (*with* Zes, Dean) A stochastic control problem. (English summary) **2005k:93238**
Mathieu, Pierre[2] *see* **Dupoiron, K. et al., 2005e:60177**
Méléard, Sylvie *see* **Jacod, Jean et al., 2005m:60149**
Mel'nikov, A. V. (*with* Nechaev, M. L.) On the pricing of equity linked-life insurance contracts in Gaussian financial environment. (English summary) **2005i:91064**
Millet, A. *see* **Cardon-Weber, C., 2005f:60136**
Mīshura, Yulīya (*with* Īl'chenko, S. A.) Itô's formula for fractional Brownian fields. (Ukrainian. Ukrainian summary) **2005k:60159**
Mohammed, Abdulrahman A. A. Stopping and stochastic integrals as closable operators. (English summary) **2005f:81127**
Moore, Kristen S. (*with* Young, Virginia R.) Optimal design of a perpetual equity-indexed annuity. (English summary)
Müller, P. F. X. *see* **Jones, Peter Wilcox, 2005c:60108**
Nechaev, M. L. *see* **Mel'nikov, A. V., 2005i:91064**
van Neerven, J. M. A. M. *see* **Brzeźniak, Zdzisław, 2005c:60077**
Ngobi, Said (*with* Stan, Aurel) An extension of the Clark-Ocone formula. (English summary) **2005g:60089**
Nualart, David (*with* Rovira, Carles; Tindel, Samy) Probabilistic models for vortex filaments based on fractional Brownian motion. (English summary) **2005e:76068**
— (*with* Peccati, Giovanni) Central limit theorems for sequences of multiple stochastic integrals. (English summary) **2005k:60077**
— *see also* **Baudoin, Fabrice, 2005j:60075**
Ondreját, Martin Uniqueness for stochastic evolution equations in Banach spaces. (English summary) **2005e:60133**
Osswald, Horst (*with* Wu, Jiang-Lun) On the continuity of pathwise solutions to Langevin equations in infinite dimensions. (English summary) **2005m:60078**
Pasurek, Tatiana *see* **Al'beverio, S. et al., 2005b:82007**
Peccati, Giovanni (*with* Yor, Marc) Four limit theorems for quadratic functionals of Brownian motion and Brownian bridge. (English summary) **2005m:60046**
— Anticipative stochastic integration based on time-space chaos. (English summary) **2005f:60178**
— *see also* **Nualart, David, 2005k:60077**
Pham, Huyên A predictable decomposition in an infinite assets model with jumps. Application to hedging and optimal investment. (English summary) **2005i:91090**
Potthoff, Jürgen *see* **Kaden, Svenja, 2005b:60089**
Pozdnyakov, Vladimir (*with* Steele, J. Michael) On the martingale framework for futures prices. (English summary) **2005b:60113**
Primak, Serguei (*with* Kontorovich, V. Ya.; Lyandres, Vladimir) ★ Stochastic methods and their applications to communications. **2005i:60132**
Privault, Nicolas (*with* Zambrini, Jean-Claude) Euclidean quantum mechanics in the momentum representation. (English summary) **2005k:81074**
(Prokhorov, Yurīĭ Vasil'evich) *see* **Skorokhod, Anatolii V., 2005i:60002**
Protter, Philip E. ★ Stochastic integration and differential equations. **2005k:60008**
— *see also* **Jacod, Jean et al., 2005m:60149**
Qian, Zhongmin *see* **Lyons, Terry, 2005f:93001**
Quenez, Marie-Claire Optimal portfolio in a multiple-priors model. (English summary) **2005h:91116**
Rezgui, Anis *see* **de Faria, Margarida et al., 2005i:60155**
Röckner, Michael *see* **Al'beverio, S. et al., 2005b:82007**
Rosiński, Jan *see* **Kolodyński, Sławomir, 2005b:60104**
Rovira, Carles *see* **Nualart, David et al., 2005e:76068**
Rustad, Alf B. The median in multidimensional spaces. (English summary) **2005i:60011**
Rutkowski, Marek *see* **Bielecki, Tomasz R. et al., 2005f:91064** *and* **2005f:91065**
Samorodnitsky, Gennady *see* **Grigoriu, Mircea, 2005g:60093**
San Martín, Jaime *see* **Dupoiron, K. et al., 2005e:60177**
Schachermayer, Walter ★ Portfolio optimization in incomplete financial markets **2005m:91113**
— Utility maximisation in incomplete markets. **2005k:91173**
— *see also* **Hugonnier, Julien et al., 2005m:91105**
Schreiber, Bertram M. *see* **Īksanov, Oleksandr M. et al., 2005b:60036**
Schürmann, Michael *see* **Ben Ghorbal, Anis, 2005j:81089**
Schurz, Henri Two general theorems for numerical approximation of stochastic processes on separable Hilbert spaces. (*see* **2005m:00008**)
(Seckler, B. D.) *see* **Skorokhod, Anatolii V., 2005i:60002**
Şerbănescu, Cristina The identification of the fermion stochastic integral of simple processes. (English summary) **2005a:81117**
Shephard, Neil *see* **Barndorff-Nielsen, Ole E. et al., 2005b:91100** *and* **2005e:60145**
Shigekawa, Ichiro ★ Stochastic analysis. **2005k:60002**
Shih, Hsin-Hung *see* **Lee, Yuh-Jia, 2005e:60103**
Shreve, Steven E. *see* **Bélanger, Alain et al., 2005j:91037**
Simon, Barry ★ Functional integration and quantum physics. **2005f:81003**
Skorokhod, Anatolii V. ★ Basic principles and applications of probability theory. **2005i:60002**
Stan, Aurel *see* **Ngobi, Said, 2005g:60089**
Steele, J. Michael *see* **Pozdnyakov, Vladimir, 2005b:60113**
Streit, Ludwig *see* **de Faria, Margarida et al., 2005i:60155**
Szabados, Tamás *see* **Székely, Balázs, 2005j:60064**
Székely, Balázs (*with* Szabados, Tamás) Strong approximation of continuous local martingales by simple random walks. (English summary) **2005j:60064**
Taniguchi, Setsuo On Wiener functionals of order 2 associated with soliton solutions of the KdV equation. (English summary) **2005k:60172**
Tevzadze, Revaz *see* **Mania, M. G.**
Tindel, Samy *see* **Nualart, David et al., 2005e:76068**
Toh, Tim-Lam (*with* Chew, Tuan-Seng) On the Henstock-Fubini theorem for multiple stochastic integrals. (English summary) **2005k:26024**
Tsirelson, Boris Scaling limit, noise, stability. (English summary) **2005g:60066**
Tudor, Ciprian A. Martingale-type stochastic calculus for anticipating integral processes. (English summary) **2005a:60087**
Üstünel, Ali Süleyman *see* **Feyel, Denis, 2005h:60161**
von Waldenfels, Wilhelm Continuous kernel processes in quantum probability. (English summary) **2005a:81118**
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Wong, Dennis *see* **Bélanger, Alain et al., 2005j:91037**

Wu, Jiang-Lun *see* **Osswald, Horst**, 2005m:60078
Xu, Hong-Kun Discrete and continuous-time models of financial derivatives. (English summary) **2005k:91180**
Yan, Litan (*with* Guo, Ying) Convergence of weighted sums of products of random variables with long-range dependence. (English summary) **2005h:60073**
— Two inequalities for iterated stochastic integrals. (English summary) **2005h:60129**
— Maximal inequalities for the iterated fractional integrals. (English summary) **2005j:60049**
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Yoshida, Nobuo *see* **Comets, Francis**, 2005m:60242
Young, Virginia R. *see* **Moore, Kristen S.**
Zambrini, Jean-Claude *see* **Privault, Nicolas**, 2005k:81074
Zes, Dean *see* **Margulies, William**, 2005k:93238
Zhu, W. Q. Lyapunov exponent and stochastic stability of quasi-non-integrable Hamiltonian systems. (English summary) **2005a:70030**
Zygadło, Ryszard Martingale integrals over Poissonian processes and the Ito-type equations with white shot noise. (English summary) **2005a:60093**

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Airault, Hélène (*with* Bogachev, Vladimir I.; Lescot, Paul) Finite-dimensional sections of functions in fractional Sobolev classes on infinite-dimensional spaces. (Russian) **2005a:60085**
— Stochastic analysis on finite dimensional Siegel disks, approach to the infinite dimensional Siegel disk and upper half-plane. (English summary) **2005j:60108**
— (*with* Malliavin, Paul; Ren, Jiagang) Geometry of foliations on the Wiener space and stochastic calculus of variations. (English and French summaries) **2005j:60109**
Bell, Denis R. Stochastic differential equations and hypoelliptic operators. **2005i:60101**
— Divergence theorems in path space. (English summary) **2005m:60120**
Bogachev, Vladimir I. *see* **Airault, Hélène et al.**, 2005a:60085
Bonaccorsi, Stefano (*with* Fuhrman, Marco) Integration by parts and smoothness of the law for a class of stochastic evolution equations. (English summary) **2005i:60102**
Chang, Kun Soo *see* **Yoo, Il et al.**, (2005i:81001)
Cho, Dong Hyun *see* **Yoo, Il et al.**, (2005i:81001)
Fang, Shizan (*with* Shao, Jinghai) Transportation cost inequalities on path and loop groups. (English summary) **2005m:60121**
Feyel, Denis (*with* Üstünel, Ali Süleyman) Monge-Kantorovitch measure transportation, Monge-Ampère equation and the Itô calculus. (English summary) **2005h:60161**
— (*with* Üstünel, Ali Süleyman) The strong solution of the Monge-Ampère equation on the Wiener space for log-concave densities. (English and French summaries) **2005d:60089**
— (*with* Üstünel, Ali Süleyman) Some remarks about the positivity of random variables on a Gaussian probability space. (English and French summaries) **2005j:60110**
Fuhrman, Marco *see* **Bonaccorsi, Stefano**, 2005i:60102
Hairer, Martin (*with* Mattingly, Jonathan C.; Pardoux, Étienne) Malliavin calculus for highly degenerate 2D stochastic Navier-Stokes equations. (English and French summaries)
Kachanovskiĭ, N. A. A generalized stochastic derivative connected with coloured noise measures. (English summary) **2005i:60103**
Kim, Byung Soo[1] *see* **Yoo, Il et al.**, (2005i:81001)
Kohatsu-Higa, Arturo Lower bounds for densities of uniformly elliptic non-homogeneous diffusions. (English summary) **2005g:60087**
Komatsu, Takashi On the Malliavin calculus for SDE's on Hilbert spaces. (English summary) **2005a:60086**
Lanjri Zaïdi, N. (*with* Nualart, David) Smoothness of the law of the supremum of the fractional Brownian motion. (English summary) **2005b:60138**
Léandre, Rémi Malliavin calculus for a general manifold. **2005f:60129**
Lescot, Paul *see* **Airault, Hélène et al.**, 2005a:60085
Liu, Jicheng[1] $D_{\infty c}$-approximation of product variations of two parameter smooth semimartingales. (English summary) **2005g:60088**
Löcherbach, Eva Smoothness of the intensity measure density for interacting branching diffusions with immigrations. (English summary) **2005h:60162**
Løkka, Arne Martingale representation of functionals of Lévy processes. (English summary) **2005d:60090**
Lütkebohmert, Eva An asymptotic expansion for a Black-Scholes type model. (English summary) **2005j:60111**
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Mattingly, Jonathan C. *see* **Hairer, Martin et al.**
Ngobi, Said (*with* Stan, Aurel) An extension of the Clark-Ocone formula. (English summary) **2005g:60089**
Nicaise, Florent Anticipative direct transformations on the Poisson space. (English and French summaries) **2005b:60139**
Nualart, David *see* **Lanjri Zaïdi, N.**, 2005b:60138
Pardoux, Étienne *see* **Hairer, Martin et al.**
Pilipenko, Andrei Convergence of random vectors distributions in variation. (English summary) **2005d:60091**
Quer-Sardanyons, Lluís (*with* Sanz-Solé, Marta) A stochastic wave equation in dimension 3: smoothness of the law. (English summary) **2005b:60140**
Ren, Jiagang *see* **Airault, Hélène et al.**, 2005j:60109
Sakamoto, Yuji (*with* Yoshida, Nakahiro) Asymptotic expansion under degeneracy. (English summary) **2005b:60141**
Sanz-Solé, Marta *see* **Quer-Sardanyons, Lluís**, 2005b:60140
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Song, Teuk Seob *see* **Yoo, Il et al.**, (2005i:81001)
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Tudor, Ciprian A. Martingale-type stochastic calculus for anticipating integral processes. (English summary) **2005a:60087**
Tudor, Constantin Fractional bilinear stochastic equations with the drift in the first fractional chaos. (English summary) **2005g:60091**
Üstünel, Ali Süleyman *see* **Feyel, Denis**, **2005d:60089**; **2005h:60161** *and* **2005j:60110**
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Yoo, Il (*with* Chang, Kun Soo; Cho, Dong Hyun; Kim, Byung Soo[1]; Song, Teuk Seob) Fourier-Feynman transforms on Wiener spaces. (*see* **2005i:81001**)
Yoshida, Nakahiro *see* **Sakamoto, Yuji**, **2005b:60141**

Items with secondary classifications in 60H07

Aida, Shigeki Witten Laplacian on pinned path group and its expected semiclassical behavior. (English summary) **2005j:58049**
— Semiclassical limit of the lowest eigenvalue of a Schrödinger operator on a Wiener space. (English summary) **2005i:81045**
Airault, Hélène (*with* Malliavin, Paul) Backward regularity for some infinite dimensional hypoelliptic semi-groups. **2005h:58062**
— (*with* Malliavin, Paul; Thalmaier, Anton) Canonical Brownian motion on the space of univalent functions and resolution of Beltrami equations by a continuity method along stochastic flows. (English and French summaries) **2005i:58044**
Attal, Stéphane Extensions of quantum stochastic calculus. **2005c:81113**
Belavkin, Vyacheslav P. Quantum Itô algebras: axioms, representations, decompositions. (English summary) **2005c:81114**
Bender, Christian (*with* Elliott, Robert J.) On the Clark-Ocone theorem for fractional Brownian motions with Hurst parameter bigger than a half. (English summary) **2005d:60057**
Biagini, Francesca (*with* Øksendal, Bernt K.; Sulem, Agnès; Wallner, Naomi) An introduction to white-noise theory and Malliavin calculus for fractional Brownian motion. (English summary) **2005a:60107**
Bouchard, Bruno (*with* Touzi, Nizar) Discrete-time approximation and Monte-Carlo simulation of backward stochastic differential equations. (English summary) **2005b:65007**
Carmona, René (*with* Tehranchi, Michael) A characterization of hedging portfolios for interest rate contingent claims. (English summary) **2005d:60100**
Cruzeiro, Ana Bela (*with* Zhang, Xicheng) A Littlewood-Paley type inequality on the path space. (English summary) **2005g:58065**
— Non adapted transformations of the Wiener measure. (*see* **2005i:81001**)
Dalang, Robert C. (*with* Nualart, Eulalia) Potential theory for hyperbolic SPDEs. (English summary) **2005f:60163**
Decreusefond, Laurent Stochastic integration with respect to Volterra processes. (English and French summaries) **2005m:60117**
Driver, Bruce K. Heat kernels measures and infinite dimensional analysis. (English summary) **2005e:58058**
— Curved Wiener space analysis. **2005g:58066**
Elliott, Robert J. *see* **Bender, Christian**, 2005d:60057
Fujiwara, Daisuke (*with* Kumano-go, Naoto) Smooth functional derivatives in Feynman path integrals by time slicing approximation. (English summary) **2005j:58012**
Gao, Fu Qing *see* **Liu, Yong Hong**, 2005i:60153
Geiss, Christel (*with* Geiss, Stefan) On approximation of a class of stochastic integrals and interpolation. (English summary) **2005f:60125**
Geiss, Stefan *see* **Geiss, Christel**, 2005f:60125
Gobet, Emmanuel (*with* Munos, Rémi) Sensitivity analysis using Itô-Malliavin calculus and martingales, and application to stochastic optimal control. (English summary) **2005m:60142**
Guérin, Hélène Pointwise convergence of Boltzmann solutions for grazing collisions in a Maxwell gas via a probabilistic interpretation. (English summary) **2005k:82082**
Haussmann, Ulrich G. (*with* Sass, Jörn) Optimal terminal wealth under partial information for HMM stock returns. (English summary) **2005d:91053**
Hino, Masanori Integral representation of linear functionals on vector lattices and its application to BV functions on Wiener space. (English summary) **2005g:31005**
Houdré, Christian (*with* Privault, Nicolas) A concentration inequality on Riemannian path space. (English summary) **2005f:60173**
Inahama, Yuzuru Logarithmic Sobolev inequality for H_0^s-metric on pinned loop groups. (English summary) **2005d:58061**
Kazumi, Tetsuya Le générateur amorti d'Ornstein-Uhlenbeck sur l'espace des chemins riemanniens. [The damped Ornstein-Uhlenbeck generator on the space of Riemannian paths] **2005f:58071**
Kohatsu-Higa, Arturo (*with* Montero, Miquel) Malliavin calculus in finance. (English summary) (*see* **2005b:91009**)
Kumano-go, Naoto Feynman path integrals as analysis on path space by time slicing approximation. (English summary) **2005b:81088**
— *see also* **Fujiwara, Daisuke**, 2005j:58012
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— Stochastic complex K-theories: Chern character and Bott periodicity. (English summary) **2005b:58057**
Lejay, Antoine An introduction to rough paths. (English summary) **2005e:60120**
Li, Xiang Dong[1] Asymptotic behavior of divergences and Cameron-Martin theorem on loop spaces. (English summary) **2005f:58074**
Lin, Qing Quan Smoothness of the solution to a backward stochastic differential equation. (Chinese. English and Chinese summaries) **2005h:60193**
Liu, Yong Hong (*with* Gao, Fu Qing) Quasi sure local Strassen's law of the iterated logarithm for diffusion processes. (Chinese. English and Chinese summaries) **2005i:60153**
Malliavin, Paul *see* **Airault, Hélène et al.**, **2005h:58062** *and* **2005i:58044**
Margulies, William (*with* Zes, Dean) A stochastic control problem. (English summary) **2005k:93238**
Márquez-Carreras, David (*with* Tindel, Samy) On exponential moments for functionals

defined on the loop group. (English summary) **2005b:58058**
Meladze, Gamlet (*with* Torondzhadze, T. A.) On the innovation of continuous multidimensional semimartingale. III. Information modelling in finance. (English and Georgian summaries) **2005m:60144**
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Øksendal, Bernt K. (*with* Proske, Frank) White noise of Poisson random measures. (English summary) **2005i:60134**
— (*with* Sulem, Agnès) Partial observation control in an anticipating environment. (Russian. Russian summary) **2005e:93170**
— *see also* **Biagini, Francesca et al.**, **2005a:60107**
Pardoux, Étienne *see* **Sow, A. B.**, **2005j:60127**
Pontier, Monique [Essai de panorama de la] modélisation et [de la] détection du délit d'initié. (French summary) [Modelling and detecting insider trading: an overview]
Privault, Nicolas (*with* Wei, Xiao) A Malliavin calculus approach to sensitivity analysis in insurance. (English summary) **2005g:91123**
— *see also* **Houdré, Christian**, **2005f:60173**
Proske, Frank *see* **Øksendal, Bernt K.**, **2005i:60134**
Rovira, Carles (*with* Tindel, Samy) On the Brownian-directed polymer in a Gaussian random environment. (English summary) **2005m:60244**
Sadasue, Gaku A non quasi-invariance of the Brownian motion on loop groups. **2005j:58050**
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Shigekawa, Ichiro ★ Stochastic analysis. **2005k:60002**
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Sulem, Agnès *see* **Biagini, Francesca et al.**, **2005a:60107** *and* **Øksendal, Bernt K.**, **2005e:93170**
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Tudor, Ciprian A. Itô-Skorohod stochastic equations and applications to finance. **2005h:60177**
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— *see also* **Cruzeiro, Ana Bela**, **2005g:58065**

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Alabert, Aureli (*with* Marmolejo, Miguel Ángel) Stochastic differential equations with boundary conditions driven by a Poisson noise. (English summary) **2005d:60093**
Al'shanskiĭ, M. A. *see* **Mel'nikova, I. V. et al.**, **2005h:60172**
Amadori, Anna Lisa (*with* Karlsen, Kenneth H.; La Chioma, Claudia) Non-linear degenerate integro-partial differential evolution equations related to geometric Lévy processes and applications to backward stochastic differential equations. (English summary) **2005e:60114**
Aman, Auguste (*with* N'zi, Modeste) Backward stochastic differential equations with oblique reflection and local Lipschitz drift. (English summary) **2005a:60088**
Antonelli, Fabio (*with* Kohatsu-Higa, Arturo) Densities of one-dimensional backward SDEs. (English summary) **2005m:60122**
Appleby, John A. D. (*with* Freeman, Alan) Exponential asymptotic stability of linear Itô-Volterra equations with damped stochastic perturbations. (English summary) **2005a:60089**
— (*with* Kelly, Cónall) Oscillation and non-oscillation in solutions of nonlinear stochastic delay differential equations. (English summary) **2005j:60112**
Bahar, Arifah (*with* Mao, Xuerong) Stochastic delay Lotka-Volterra model. (English summary) **2005b:60142**
Bahlali, Khaled (*with* Essaky, El Hassan; Labed, Boubakeur) Reflected backward stochastic differential equation with super-linear growth. (English summary) **2005h:60163**
Bally, Vlad (*with* Pardoux, Étienne; Stoica, Lucretiu) Backward stochastic differential equations associated to a symmetric Markov process. (English summary) **2005k:60173**
Bass, Richard F. (*with* Perkins, Edwin A.) Countable systems of degenerate stochastic differential equations with applications to super-Markov chains. (English summary) **2005j:60113**
— Stochastic differential equations with jumps. (English summary)
— (*with* Burdzy, Krzysztof; Chen, Zhen-Qing) Stochastic differential equations driven by stable processes for which pathwise uniqueness fails. (English summary) **2005c:60072**
— (*with* Burdzy, Krzysztof; Chen, Zhen-Qing) Uniqueness for reflecting Brownian motion in lip domains. (English and French summaries) **2005k:60174**
— (*with* Kassmann, Moritz) Harnack inequalities for non-local operators of variable order. (English summary) **2005i:60104**
Baudoin, Fabrice The tangent space to a hypoelliptic diffusion and applications. (English summary) **2005k:60175**
Baxendale, Peter H. Stochastic averaging and asymptotic behavior of the stochastic Duffing-van der Pol equation. (English summary) **2005f:60130**
Bhatt, Abhay G. (*with* Rajput, Balram; Xiong, Jie) Zakai equation of nonlinear filtering with Ornstein-Uhlenbeck noise: existence and uniqueness. (English summary) **2005f:60131**
Boufoussi, Brahim (*with* Ouknine, Youssef) On a SDE driven by a fractional Brownian motion and with monotone drift. (English summary) **2005e:60115**
Briand, Ph. (*with* Delyon, B.; Hu, Ying[1]; Pardoux, Étienne; Stoica, Lucretiu) L^p solutions of backward stochastic differential equations. (English summary) **2005c:60073**
Brossard, Jean Deux notions équivalentes d'unicité en loi pour les équations différentielles stochastiques. (English and French summaries) [Two equivalent notions of uniqueness in law for stochastic differential equations] **2005b:60143**
Brzeźniak, Zdzisław (*with* Carroll, Andrew) Approximations of the Wong-Zakai type for stochastic differential equations in M-type 2 Banach spaces with applications to loop spaces. **2005a:60090**
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Caballo Garrido, Tomás (*with* Garrido-Atienza, M. J.; Schmalfuß, Björn) Asymptotic behaviour of non-trivial stationary solutions of stochastic functional evolution equations. (Ukrainian summary)
Carroll, Andrew *see* **Brzeźniak, Zdzisław**, **2005a:60090**
Chen, Wei Wei (*with* Sun, Xiao Jun) A comparison theorem for the solutions of backward-forward stochastic differential equations and its application to finance. (Chinese. English and Chinese summaries)
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— *see also* **Jiang, Long**, **2005h:60168**
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Chernyĭ, A. S. Invariant distributions for singular stochastic differential equations. (English summary) **2005b:60144**
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Di Paola, Mario (*with* Pirrotta, Antonina) Direct derivation of corrective terms in SDE through nonlinear transformation on Fokker-Planck equation. (English summary)
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Fan, Sheng Jun An almost surely continuous property on solutions of a backward stochastic differential equation. (Chinese. English and Chinese summaries)
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— *see also* **Shi, Yufeng et al.**, **2005k:60185**
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BSDEs with continuous coefficients. (English summary) **2005c:60074**
— *see also* **Briand, Ph. et al., 2005c:60073**
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— *see also* **Fischer, Markus**
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Mamporiya, B. I. On the existence and uniqueness of a solution to a stochastic differential equation in a Banach space. (English summary) **2005f:60134**
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Shi, Yufeng (*with* Gu, Yan Ling; Liu, Kai[2]) Comparison theorems of backward doubly stochastic differential equations and applications. (English summary) **2005k:60185**
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— *see also* **Yin, Ju-liang, 2005k:60189**
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Torondzhadze, T. A. Stochastic equations in the problems of semimartingale parameter estimation. **2005h:60176**
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Zakharov, A. V. A theorem on the stability of the solution of an inverse stochastic differential equation. (Russian)
Zhang, Qi Min (*with* Nie, Zan Kan) Attractors of stochastic differential delay equations with Markov jumping parameters. (Chinese. English and Chinese summaries)
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Broadbridge, Philip *see* **Goard, Joanna M. et al.**, **2005d:91049**
Brugnano, Luigi (*with* Carreras, Giulia; Burrage, Kevin) On the convergence of LMF-type methods for SODEs. (English summary) **2005g:65023**
Buckdahn, Rainer (*with* Ichihara, Naoyuki) Limit theorem for controlled backward SDEs and homogenization of Hamilton-Jacobi-Bellman equations. (English summary) **2005j:60131**
Buldygin, Valerii V. (*with* Klesov, O. Ĭ.; Steinebach, Josef) On asymptotic quasi-inverse functions. (English summary) **2005g:26002**
Burrage, Kevin (*with* Burrage, P. M.; Tian, Tian Hai) Numerical methods for strong solutions of stochastic differential equations: an overview. (English summary) **2005c:65006**
— *see also* **Brugnano, Luigi et al.**, **2005g:65023** *and* **Alcock, Jamie**
Burrage, P. M. *see* **Burrage, Kevin et al.**, **2005c:65006**
Busca, Jérôme *see* **Berestycki, Henri et al.**, **2005b:91103**
Cao, Wan Rong (*with* Liu, Ming Zhu; Fan, Zhencheng) MS-stability of the Euler-Maruyama method for stochastic differential delay equations. (English summary) **2005e:60148**
— (*with* Liu, Ming Zhu) Stability of the semi-implicit Milstein numerical method for stochastic differential delay equations. (Chinese. English and Chinese summaries) **2005m:60147**
— *see also* **Liu, Ming Zhu et al.**, **2005f:65014**
Cao, Xiao Yong *see* **Zhou, Shaopu et al.**, **2005a:60098** *and* **2005h:60194**
Capasso, Vincenzo (*with* Bakstein, David) ★ An introduction to continuous-time stochastic processes. **2005g:60001**
Carmona, René (*with* Ludkovski, Michael) Spot convenience yield models for the energy markets. (English summary) (*see* **2005b:91010**)
Carreras, Giulia *see* **Brugnano, Luigi et al.**, **2005g:65023**
Carrière, J. F. Martingale valuation of cash flows for insurance and interest models. (English summary)
Castañeda-Leyva, Netzahualcóyotl (*with* Hernández-Hernández, Daniel) Optimal portfolio management with consumption. (English summary) **2005e:93032**
van Casteren, Jan A. *see* **Boufoussi, Brahim**, **2005j:60130**
Celani, Antonio (*with* Mazzino, Andrea; Pumir, Alain) Turbulence and stochastic processes. (English summary) **2005b:76073**
Çetin, Umut (*with* Jarrow, Robert A.; Protter, Philip E.; Yildirim, Yildiray) Modeling credit risk with partial information. (English summary) **2005e:91070**
Chan, Raymond H. (*with* Chen, Yong; Yeung, K. M.) A memory reduction method in pricing American options. (English summary) **2005h:65007**
Chang, Fwu-Ranq ★ Stochastic optimization in continuous time. **2005b:91001**
Charalambous, C. D. (*with* Elliott, Robert J.; Krishnamurthy, Vikram) Conditional moment generating functions for integrals and stochastic integrals. (English summary) **2005c:93099**
Chen, Dian-fa Optimal premium in randomly constrained markets. (English and Chinese summaries) **2005b:60163**
Chen, Ping[3] (*with* Yang, Xiao Ping[1]) Wavelet estimation of the diffusion coefficients in

asset equations. (Chinese. English and Chinese summaries) **2005h:60197**

Chen, Wen Cai (*with* Ye, Zhong Xing) Stock market models and invariant price manifolds. (Chinese. English and Chinese summaries) **2005c:91053**

Chen, Yong *see* **Chan, Raymond H. et al., 2005h:65007**

Chernyĭ, A. S. (*with* Engelbert, Hans-Jürgen) ★ Singular stochastic differential equations. **2005j:60002**

Cheung, Ka Chun (*with* Yang, Hailiang) Asset allocation: investment strategies for financial and insurance portfolio. **2005a:60100**

Cheung, Ying Lok *see* **Wong, Hoi Ying, 2005e:91096**

Cho, Nhansook (*with* Kwon, Youngmee) Central limit type theorem for weighted particle systems. (English summary) **2005e:60076**

Choi, Seungmook S. (*with* Marcozzi, M. D.) On the application of MQ-RBF to the valuation of derivative securities. (English summary) **2005g:91098**

Choi, Won The application of stochastic analysis to countable allelic diffusion model. (English summary) **2005b:60164**

Chong, Tsui Kai *see* **Lim, Kian Guan et al., 2005c:91064**

Chueshov, Igor D. *see* **Arnold, Ludwig et al., 2005k:34216**

Colombo, Fabrizio (*with* Giuli, Massimiliano; Vespri, Vincenzo) A semigroup approach to no-arbitrage pricing theory: constant elasticity variance model and term structure models. **2005g:34125**

Cont, Rama Modeling term structure dynamics: an infinite dimensional approach. (English summary)

Cruzeiro, Ana Bela (*with* Malliavin, Paul; Thalmaier, Anton) Geometrization of Monte-Carlo numerical analysis of an elliptic operator: strong approximation. (English and French summaries) **2005c:60087**

Dahl, Mikkel Stochastic mortality in life insurance: market reserves and mortality-linked insurance contracts. (English summary)

Dai Pra, Paolo (*with* Rœlly, S.) An existence result for infinite-dimensional Brownian diffusions with non-regular and non-Markovian drift. (English summary) **2005i:60150**

Daletskiĭ, A. Yu. *see* **Al'beverio, S. et al., 2005g:60160**

Davis, Mark H. A. Complete-market models of stochastic volatility. (English summary) **2005b:91110**

Dayananda, P. W. A. (*with* Kemper, John T.; Shvartsman, Mikhail M.) A stochastic model for prostate-specific antigen levels. (English summary)

Deelstra, Griselda (*with* Grasselli, Martino; Koehl, Pierre-François) Optimal design of the guarantee for defined contribution funds. (English summary) **2005c:91056**

Delarue, François Estimates of the solutions of a system of quasi-linear PDEs. A probabilistic scheme. (English and French summaries) **2005b:60165**

— Auxiliary SDEs for homogenization of quasilinear PDEs with periodic coefficients. (English summary) **2005e:35015**

Deng, M. L. *see* **Zhu, W. Q., 2005e:70025**

Denk, Georg (*with* Meintrup, David; Schäffler, Stefan) Transient noise simulation: modeling and simulation of $1/f$-noise. (English summary) **2005a:60103**

Dereudre, D. (*with* Rœlly, S.) On Gibbsianness of infinite-dimensional diffusions. (English summary) **2005f:60168**

Dermoune, Azzouz (*with* Filali, Siham) Diffusion with interactions between two types of particles and pressureless gas equations. (English and French summaries) **2005d:60152**

Dorogovtsev, Andrei A. On random measures on spaces of trajectories, and strong and weak solutions of stochastic equations. (Russian. English and Ukrainian summaries) **2005i:60127**

Dostál, Petr² *see* **Štěpán, Josef, 2005h:91120** *and* **2005h:91121**

Du, Li Jin (*with* Liu, Ji Chun; Tang, Si Ying) Hedging strategy for unit-linked insurance contract under local risk minimization. (Chinese. English and Chinese summaries) **2005b:60166**

Duistermaat, J. J. A mathematical model for geomagnetic reversals. **2005k:86019**

E, Wei-nan (*with* Ren, Weiqing; Vanden-Eijnden, Eric) Energy landscapes and rare events. (English summary) **2005b:60006**

— (*with* Ren, Weiqing; Vanden-Eijnden, Eric) Minimum action method for the study of rare events. (English summary) **2005f:60067**

Ekström, Erik (*with* Tysk, Johan) Options written on stocks with known dividends. (English summary) **2005f:91067**

El Karoui, Nicole Mesure et couverture des risques dans les marchés financiers. [Measure and hedging of risks in financial markets] **2005c:91057**

Elliott, Robert J. *see* **Charalambous, C. D. et al., 2005c:93099** *and* **Bender, Christian, 2005g:91094**

El-Tahan, W. *see* **El-Tawil, Magdy A. et al., 2005i:65013**

El-Tawil, Magdy A. (*with* El-Tahan, W.; Hussein Zaki, Abdellah) A proposed technique of SFEM on solving ordinary random differential equation. (English summary) **2005i:65013**

— The approximate solutions of some stochastic differential equations using transformations. (English summary)

Elworthy, K. David (*with* Li, Xue-Mei²) Gross-Sobolev spaces on path manifolds: uniqueness and intertwining by Itô maps. (English and French summaries) **2005c:58065**

— (*with* Li, Xue-Mei²) Some families of q-vector fields on path spaces. (English summary) **2005e:58059**

Emmer, Susanne (*with* Klüppelberg, Claudia) Optimal portfolios when stock prices follow an exponential Lévy process. (English summary) **2005b:91113**

Engelbert, Hans-Jürgen *see* **Chernyĭ, A. S., 2005j:60002**

Enriquez, Benjamin Comment on: "Double product integrals and Enriquez quantization of Lie bialgebras. I. The quasitriangular identities" [J. Math. Phys. **45** (2004), no. 5, 2090–2105; MR2054150 (2005d:81219)] by R. L. Hudson and S. Pulmannová. **2005d:81220**

Evans, Mark D. J. Discussion on: "Valuation of equity-indexed annuities under stochastic interest rates" [N. Am. Actuar. J. **7** (2003), no. 4, 72–91; MR2061238] by X. S. Lin and K. S. Tan.

Ewald, Christian-Oliver Optimal logarithmic utility and optimal portfolios for an insider in a stochastic volatility market. (English summary) **2005m:60140**

Fagnola, Franco Quantum stochastic differential equations. (English summary) **2005b:81083**

Fan, Zhencheng *see* **Cao, Wan Rong et al., 2005e:60148** *and* **Liu, Ming Zhu et al., 2005f:65014**

Fard, Omid S. (*with* Kamyad, Ali V.) A numerical scheme to solve nonlinear BSDEs with Lipschitz and non-Lipschitz coefficients. (English summary) **2005m:60148**

Faris, W. G. Non-selfadjoint Ornstein-Uhlenbeck semigroups. **2005d:47076**

Fedchenko, N. V. (*with* Prigarin, S. M.) Boundary value problems for linear stochastic differential equations. (English summary) **2005k:65016**

Feistel, S. *see* **Zaks, Mikhail A. et al., 2005a:34054**

Field, Timothy R. (*with* Tough, Robert J. A.) Dynamical models of weak scattering. (English summary) **2005j:78026**

Filali, Siham *see* **Dermoune, Azzouz, 2005d:60152**

Filatova, Daria (*with* Grzwaczewski, Marek; McDonald, A. David) Estimating parameters of stochastic differential equations using a criterion function based on the Kolmogorov-Smirnov statistics. (English summary)

Fleming, Wendell H. Some optimal investment, production and consumption models. (English summary) (*see* **2005b:91010**)

— (*with* Pang, Tao²) An application of stochastic control theory to financial economics. (English summary) **2005d:93147**

Florent, Igor *see* **Berestycki, Henri et al., 2005b:91103**

Ford, Judith M. *see* **Baker, Christopher T. H. et al., 2005k:34321**

Ford, Neville J. (*with* Norton, Stewart J.) Numerical investigation of D-bifurcations for a stochastic delay logistic equation. (English summary)

— *see also* **Baker, Christopher T. H. et al., 2005k:34321**

Fouque, Jean-Pierre (*with* Papanicolaou, George; Sircar, K. Ronnie; Sølna, Knut) Multiscale stochastic volatility asymptotics. (English summary) **2005b:91114**

— (*with* Han, Chuan-Hsiang) Asian options under multiscale stochastic volatility. (English summary) **2005h:91075**

Frank, T. D. Analytical results for fundamental time-delayed feedback systems subjected to multiplicative noise. (English summary) **2005f:82083**

— (*with* Friedrich, Rudolf; Beek, P. J.) Time series analysis of multivariate time-delayed systems with noise: applications to laser physics and human movement. (English summary)

Franke, Jürgen (*with* Härdle, Wolfgang K.; Hafner, Christian M.) ★ Statistics of financial markets. **2005g:91002**

Freĭdlin, Mark Iosifovich Some remarks on the Smoluchowski-Kramers approximation. (English summary) **2005k:82074**

Friedrich, Roland M. *see* **Bauer, Robert O.**

Friedrich, Rudolf *see* **Frank, T. D. et al.**

Fu, Chang Qing *see* **Zhang, Shi Bin et al., 2005d:91064**

Fuhrman, Marco (*with* Paganoni, Anna Maria) Linear control systems on unbounded time intervals and invariant measures of Ornstein-Uhlenbeck processes in Hilbert spaces. (English summary) **2005f:60143**

— (*with* Tessitore, Gianmario) Infinite horizon backward stochastic differential equations and elliptic equations in Hilbert spaces. (English summary) **2005b:60167**

— (*with* Tessitore, Gianmario) Existence of optimal stochastic controls and global solutions of forward-backward stochastic differential equations. (English summary) **2005i:93091**

Gaeta, Giuseppe Symmetry of stochastic equations. (English summary) **2005f:34105**

Gaĭshchuk, V. V. (*with* Prikarpat·skiĭ, A. K.; Pritula, N. N.) Gradient properties of a Fisher-type stochastic replicator model and its symplectic analysis. (Ukrainian. English summary) **2005h:37159**

Gaier, J. (*with* Grandits, Peter) Ruin probabilities and investment under interest force in the presence of regularly varying tails. (English summary) **2005k:91182**

Gaite, José Stochastic formulation of the renormalization group: supersymmetric structure and topology of the space of couplings. (English summary) **2005e:81149**

Galkin, V. A. Convergence of difference schemes and a direct modeling method to solutions of the Smoluchowski equation in kinetic coagulation theory. (Russian)

Gamst, Anthony An interacting particles process for Burgers equation on the circle. (English summary)

Gardoń, Albert The order of approximations for solutions of Itô-type stochastic differential equations with jumps. (English summary) **2005b:60170**

Gentz, Barbara *see* **Berglund, Nils, 2005a:82052**

Gerrard, Russell *see* **Wang, Nan² et al., 2005h:91134**

Giacometti, Rosella (*with* Teocchi, Mariangela) On pricing of credit spread options. (English summary) **2005g:91101**

Giuli, Massimiliano *see* **Colombo, Fabrizio et al., 2005g:34125**

Givon, Dror (*with* Kupferman, Raz) White noise limits for discrete dynamical systems driven by fast deterministic dynamics. (English summary) **2005g:60108**

Glasserman, Paul (*with* Merener, Nicolas) Convergence of a discretization scheme for jump-diffusion processes with state-dependent intensities. (English summary) **2005b:65008**

Goard, Joanna M. (*with* Broadbridge, Philip; Raina, G.) Tractable forms of the bond pricing equation. (English summary) **2005d:91049**

Gradalski, Przemysław *see* **Janicki, Aleksander et al., (2005c:00014)**

Grandits, Peter An analogue of the Cramér-Lundberg approximation in the optimal investment case. (English summary) **2005f:91085**

— A Karamata-type theorem and ruin probabilities for an insurer investing proportionally in the stock market. (English summary) **2005a:60104**

— *see also* **Gaier, J., 2005k:91182**

Grasselli, M. R. (*with* Hurd, T. R.) Wiener chaos and the Cox-Ingersoll-Ross model. (English summary) **2005h:60198**

Grasselli, Martino *see* **Deelstra, Griselda et al., 2005c:91056**

Großkinsky, Stefan (*with* Klingenberg, Christian; Oelschläger, Karl) A rigorous derivation of Smoluchowski's equation in the moderate limit. (English summary) **2005a:82078**

Grunewald, Natalie ★ Mathematische Analyse einer Stick-Slip-Bewegung in zufälligem Medium. (German) [Mathematical analysis of a stick-slip motion in a random medium] **2005e:82101**

Grzwaczewski, Marek *see* **Filatova, Daria et al.**

Gubinelli, Massimiliano Controlling rough paths. (English summary) **2005k:60169**

Guérin, Hélène Pointwise convergence of Boltzmann solutions for grazing collisions in a Maxwell gas via a probabilistic interpretation. (English summary) **2005k:82082**

Gukhal, Chandrasekhar Reddy The compound option approach to American options on

jump-diffusions. (English summary) **2005d:91051**

Guo, Xiao *see* **Zhou, Shaopu et al., 2005a:60098**

Guo, Xin A regime switching model: statistical estimation, empirical evidence, and change point detection. (English summary) (*see* **2005b:91010**)

— (*with* Zhang, Qing[1]) Closed-form solutions for perpetual American put options with regime switching. (English summary) **2005h:91108**

— (*with* Pham, Huyên) Optimal partially reversible investment with entry decision and general production function. (English summary) **2005m:60143**

Guo, Zi Jun Stability of stochastic Lotka-Volterra systems. (Chinese. English and Chinese summaries) **2005g:60104**

— Pricing of options with the rate of mean reverting processes. (Chinese. English and Chinese summaries) **2005i:60130**

Haberman, Steven *see* **Wang, Nan[2] et al., 2005h:91134**

Hafner, Christian M. *see* **Franke, Jürgen et al., 2005g:91002**

Hafner, Reinhold ★ Stochastic implied volatility. **2005c:91003**

Hałaj, Grzegorz Optimization of consumption with partial observation—Jensen inequality method. (English summary)

Han, Chuan-Hsiang *see* **Fouque, Jean-Pierre, 2005h:91075**

Hanke, Martin (*with* Rösler, Elisabeth) Computation of local volatilities from regularized Dupire equations. (English summary)

Hanson, Floyd B. (*with* Westman, John J.) Optimal portfolio and consumption policies subject to Rishel's important jump events model: computational methods. (English summary) **2005b:91116**

Härdle, Wolfgang K. *see* **Franke, Jürgen et al., 2005g:91002**

Heath, David Patrick (*with* Platen, Eckhard) Pricing of index options under a minimal market model with log-normal scaling. (English summary) **2005b:91117**

Henderson, Vicky Analytical comparisons of option prices in stochastic volatility models. (English summary) **2005h:91110**

Hernández-Hernández, Daniel *see* **Castañeda-Leyva, Netzahualcóyotl, 2005e:93032**

Herrmann, Samuel (*with* Imkeller, Peter; Pavlyukevich, Ilya) Two mathematical approaches to stochastic resonance. (English summary) **2005k:82075**

— (*with* Imkeller, Peter) The exit problem for diffusions with time-periodic drift and stochastic resonance. (English summary) **2005j:60147**

Higham, Desmond J. (*with* Mao, Xuerong; Stuart, Andrew M.) Exponential mean-square stability of numerical solutions to stochastic differential equations. (English summary) **2005a:65005**

— *see also* **Strømmen Melbø, Aslaug H., 2005d:65009**

Hillairet, Caroline Existence of an equilibrium with discontinuous prices, asymmetric information, and nontrivial initial σ-fields. (English summary) **2005h:91149**

Hofmann, Norbert (*with* Müller-Gronbach, Thomas) On the global error of Itô-Taylor schemes for strong approximation of scalar stochastic differential equations. (English summary) **2005g:65025**

Hu, Shi Geng *see* **Li, Dong, 2005k:60212**

Hu, Yi-jun *see* **Liu, Yan[3], 2005j:91048**

Hu, Ying[1] (*with* Imkeller, Peter; Müller, Matthias) Partial equilibrium and market completion. (English summary) **2005m:91080**

Huang, Li Hong[1] *see* **Yang, Zhaojun, 2005m:91115**

Hudson, Robin Lyth (*with* Pulmannová, Sylvia) Double product integrals and Enriquez quantization of Lie bialgebras. I. The quasitriangular identities. (English summary) **2005d:81219**

— *see also* **Enriquez, Benjamin, 2005d:81220**

Hurd, T. R. *see* **Grasselli, M. R., 2005h:60198**

Hussein Zaki, Abdellah *see* **El-Tawil, Magdy A. et al., 2005i:65013**

Ibragimov, Nail (*with* Ünal, Gazanfer; Jogréus, Claes) Approximate symmetries and conservation laws for Itô and Stratonovich dynamical systems. (English summary) **2005h:60199**

Ichihara, Naoyuki *see* **Buckdahn, Rainer, 2005j:60131**

Ilić, Dejan *see* **Janković, Svetlana, 2005b:65009**

Imkeller, Peter *see* **Herrmann, Samuel et al., 2005j:60147; 2005k:82075** *and* **Hu, Ying[1] et al., 2005m:91080**

Inada, Shinya *see* **Ohwaki, Shin-ichi, 2005m:34125**

Izydorczyk, Adam *see* **Janicki, Aleksander et al., (2005c:00014)**

Jacod, Jean (*with* Kurtz, Thomas G.; Méléard, Sylvie; Protter, Philip E.) The approximate Euler method for Lévy driven stochastic differential equations. (English and French summaries) **2005m:60149**

Jaimungal, Sebastian (*with* Young, Virginia R.) Pricing equity-linked pure endowments with risky assets that follow Lévy processes. (English summary)

Janicki, Aleksander (*with* Izydorczyk, Adam; Gradalski, Przemyslaw) Computer simulation of stochastic models with SDE-solver software package. (English summary) (*see* **2005c:00014**)

Janković, Svetlana (*with* Ilić, Dejan) An analytic approximation of solutions of stochastic differential equations. (English summary) **2005b:65009**

— *see also* **Jovanović, Miljana, 2005h:60192**

Jarrow, Robert A. (*with* Lando, David; Yu, Fan[2]) Default risk and diversification: theory and empirical implications. (English summary) **2005k:91186**

— *see also* **Çetin, Umut et al., 2005e:91070**

Jeanblanc-Picqué, Monique *see* **Bielecki, Tomasz R. et al., 2005f:91064; 2005f:91065** *and* **2005i:91073**

Jin, Zhi Ming[1] *see* **Li, Xia**

Jogréus, Claes *see* **Ibragimov, Nail et al., 2005h:60199**

Jovanović, Miljana (*with* Janković, Svetlana) L^{2m}-asymptotic behavior of solutions of perturbed stochastic integrodifferential equations. (English summary) **2005h:60192**

Kabanov, Yu. M. (*with* Klüppelberg, Claudia) A geometric approach to portfolio optimization in models with transaction costs. (English summary) **2005b:49060**

Kager, Wouter (*with* Nienhuis, Bernard) A guide to stochastic Löwner evolution and its applications. (English summary) **2005f:82037**

Kaise, H. (*with* Sheu, S. J.) Risk sensitive optimal investment: solutions of the dynamical programming equation. (English summary) **2005c:93107**

Kamyad, Ali V. *see* **Fard, Omid S., 2005m:60148**

Kanagawa, Shuya (*with* Ogawa, Shigeyoshi) Numerical solutions of stochastic differential equations and their applications [translation of Sūgaku **53** (2001), no. 2, 125–138; MR1839957]. (*see* **2005j:00022**)

Kangro, Raul (*with* Pärna, Kalev; Sepp, Artur) Pricing European-style options under jump diffusion processes with stochastic volatility: applications of Fourier transform. (English summary) **2005h:91112**

Karniadakis, George Em *see* **Xiu, Dongbin et al., (2005g:65007)**

Kawai, Ryoichi *see* **Bena, Ioana et al., 2005a:82082**

Kazmerchuk, Y. I. (*with* Wu, Jian Hong) Stochastic state-dependent delay differential equations with applications in finance. (English summary) **2005i:34112**

Kellerhals, B. Philipp ★ Asset pricing. **2005c:91005**

Kemper, John T. *see* **Dayananda, P. W. A. et al.**

Khanin, Konstantin *see* **Bec, Jérémie, 2005c:76056**

Khasminskii, R. Z. (*with* Yin, Gang George) On averaging principles: an asymptotic expansion approach. (English summary) **2005h:60245**

Kifer, Yuri Some recent advances in averaging. (English summary) **2005h:37067**

Kim, Jai Heui On fuzzy stochastic differential equations. (English summary) **2005h:60033**

Klesov, O. Ĭ. *see* **Buldygin, Valerii V. et al., 2005g:26002**

Klingenberg, Christian *see* **Großkinsky, Stefan et al., 2005a:82078**

Klokov, S. A. *see* **Veretennikov, A. Yu., 2005k:60214**

Kłosek-Dygas, M. M. (*with* Kuske, R.) Multiscale analysis of stochastic delay differential equations. (English summary) **2005m:34120**

Klüppelberg, Claudia *see* **Kabanov, Yu. M., 2005b:49060** *and* **Emmer, Susanne, 2005b:91113**

Koehl, Pierre-François *see* **Deelstra, Griselda et al., 2005c:91056**

Kohatsu-Higa, Arturo Lower bounds for densities of uniformly elliptic non-homogeneous diffusions. (English summary) **2005g:60087**

— (*with* Yamazato, Makoto) On moments and tail behaviors of storage processes. (English summary) **2005h:60142**

Komorowski, Tomasz (*with* Krupa, Grzegorz) A note on an application of the Lasota-Yorke fixed point theorem in the turbulent transport problem. (English summary) **2005c:76054**

Kondrat'ev, Yu. G. *see* **Al'beverio, S. et al., 2005g:60160**

Kontorovich, V. Ya. *see* **Primak, Serguei et al., 2005i:60132**

Korn, Ralf (*with* Menkens, Olaf) On worst-case investment with applications in finance and insurance mathematics. (English summary) (*see* **2005i:00006**)

Kou, S. C. (*with* Kou, S. G.) A diffusion model for growth stocks. (English summary) **2005g:60124**

Kou, S. G. *see* **Kou, S. C., 2005g:60124**

Kraft, Holger ★ Optimal portfolios with stochastic interest rates and defaultable assets. **2005b:91006**

Kramer, Peter R. (*with* Majda, Andrew J.) Stochastic mode reduction for the immersed boundary method. (English summary) **2005c:60085**

— (*with* Majda, Andrew J.) Stochastic mode reduction for particle-based simulation methods for complex microfluid systems. (English summary) **2005c:60086**

Krishnamurthy, Vikram *see* **Charalambous, C. D. et al., 2005c:93099**

Krupa, Grzegorz *see* **Komorowski, Tomasz, 2005c:76054**

Küchler, Uwe (*with* Vasiliev, Vyacheslav) Sequential identification of linear dynamic systems with memory. (English summary) **2005m:62146**

Kulik, A. M. The optimal coupling property and its applications: limit theorem for non-elliptic diffusions and construction of canonical stochastic flow. (English summary) **2005g:60115**

Kulminski, A. *see* **Akushevich, I. et al.**

Kulperger, Reg Stochastic finance: discrete time processes and risk neutral pricing. (English summary) (*see* **2005g:60006**)

Kupferman, Raz (*with* Stuart, Andrew M.) Fitting SDE models to nonlinear Kac-Zwanzig heat bath models. (English summary) **2005h:82046**

— *see also* **Givon, Dror, 2005g:60108**

Kurtz, David ★ Contribution à l'étude des martingales d'Azéma. (French) [Contribution to the study of Azéma algebras] **2005h:60007**

Kurtz, Thomas G. *see* **Jacod, Jean et al., 2005m:60149**

Kuske, R. Multi-scale dynamics in stochastic delay differential equations with multiplicative noise. (English summary)

— *see also* **Kłosek-Dygas, M. M., 2005m:34120**

Kwon, Youngmee *see* **Cho, Nhansook, 2005e:60076**

Ladde, G. S. Hybrid systems: convergence and stability analysis of stochastic large-scale approximation schemes. (English summary) **2005j:93078**

Lai, Tze Leung (*with* Lim, Tiong Wee) Singular stochastic control in optimal investment and hedging in the presence of transaction costs. (English summary) **2005a:91061**

Lamberton, Damien (*with* Pagès, Gilles) Recursive computation of the invariant distribution of a diffusion: the case of a weakly mean reverting drift. (English summary) **2005b:60209**

Lando, David *see* **Jarrow, Robert A. et al., 2005k:91186**

Lao, Lan Jun *see* **Zhang, Shi Bin et al., 2005d:91064**

Larssen, Bjørnar (*with* Risebro, Nils Henrik) When are HJB-equations in stochastic control of delay systems finite dimensional? (English summary) **2005h:49074**

Lazrieva, N. (*with* Sharia, T.; Torondzhadze, T. A.) The Robbins-Monro type stochastic differential equations. II. Asymptotic behaviour of solutions. (English summary) **2005d:62130**

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Lee, Peter B. *see* **Wise, Mark B. et al.**

Lee, Roger W. Implied volatility: statics, dynamics, and probabilistic interpretation. (English summary) (*see* **2005f:60007**)

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Lepingle, Dominique (*with* Nguyen, Thi Thao) Approximating and simulating multivalued stochastic differential equations. (English summary) **2005h:60202**

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— *see also* **Cao, Wan Rong et al.**, **2005e:60148** *and* **2005m:60147**
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Liu, Yan[3] (*with* Hu, Yi-jun) Risk theory for the model with variable premium rate and disturbed by diffusion in a Markovian environment. (English and Chinese summaries) **2005j:91048**
Liu, Yazeng (*with* Peng, Shi Ge) Infinite horizon backward stochastic differential equation and exponential convergence index assignment of stochastic control systems. (English summary)
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Ogawa, Shigeyoshi Introduction to the discrete approximation of stochastic differential equations [translation of Sūgaku **53** (2001), no. 1, 34–45; MR1816982]. (English summary) (*see* **2005j:00022**)
— *see also* **Kanagawa, Shuya**, (**2005j:00022**)
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Rodkina, A. E. (*with* Schurz, Henri) Global asymptotic stability of solutions of cubic stochastic difference equations. **2005d:39073**
— (*with* Schurz, Henri) On global asymptotic stability of solutions of some in-arithmetic-mean-sense monotone stochastic difference equations in $\mathbb{R}^1$. (English summary) **2005h:39016**
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— (*with* Dostál, Petr²) The $dX(t) = Xb(X)dt + X\sigma(X)dW$ equation and financial mathematics. II. (English summary) **2005h:91121**
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Ünal, Gazanfer (*with* Sun, Jian-Qiao) Symmetries and conserved quantities of stochastic dynamical control systems. (English summary) **2005e:93148**
— *see also* **Ibragimov, Nail et al.**, **2005h:60199**
Van den Broeck, Christian *see* **Bena, Ioana et al.**, **2005a:82082**
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Veretennikov, A. Yu. (*with* Klokov, S. A.) On the mixing rate for the Euler scheme for stochastic difference equations. (Russian) **2005k:60214**
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— *see also* **Röckner, Michael**, **2005d:47077**
Wang, Nan[2] (*with* Gerrard, Russell; Haberman, Steven) The premium and the risk of a life policy in the presence of interest rate fluctuations. (English summary) **2005h:91134**
Wang, Tan (*with* Wirjanto, Tony S.) The role of risk and risk aversion in an individual's migration decision. (English summary) **2005c:60045**
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Wirl, Franz International greenhouse gas emissions when global warming is a stochastic process. (English summary) **2005h:91033**
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Xiong, Jian (*with* Wong, Augustine; Salopek, Donna Mary) Saddlepoint approximations to option price in a general equilibrium model. (English summary)
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Yan, Hai Feng (*with* Liu, San Yang; Li, Wen Qiang) Pricing options on the maximum of stocks driven by Ornstein-Uhlenbeck processes. (Chinese. English and Chinese summaries) **2005h:91126**
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Yang, Hongtao American put options on zero-coupon bonds and a parabolic free boundary problem. (English summary) **2005i:91071**
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Yang, Xiao Ping[1] *see* **Chen, Ping**[3], **2005h:60197**
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— *see also* **Jaimungal, Sebastian**
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— *see also* **Mathematics of finance**, **2005b:91010** *and* **Guo, Xin**, **2005h:91108**
Zhang, Shi Bin (*with* Fu, Chang Qing; Lao, Lan Jun) The structure of a market with default risk and the pricing of defaultable American contingent claims without any recovery. (Chinese. English and Chinese summaries) **2005d:91064**
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— (*with* Cao, Xiao Yong; Guo, Xiao) Backward doubly stochastic differential equations. (Chinese. English and Chinese summaries) **2005a:60098**
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Snowbird, UT ★ Mathematics of finance. **2005b:91010**

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Chen, Bin[2] Bäcklund transformation and exact solutions of a 2-dimensional Wick type stochastic soliton breaking equation. (Chinese. English and Chinese summaries)
— Exact solutions of a Wick-type stochastic generalized Fisher equation. (Chinese. English and Chinese summaries)
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— *see also* **Caraballo Garrido, Tomás et al.**, **2005m:60131**

Cutland, Nigel J. Stochastic Navier-Stokes equations: Loeb space techniques & attractors. (English summary) **2005i:60116**

Dalang, Robert C. (*with* Lévêque, Olivier) Second-order hyperbolic S.P.D.E.'s driven by boundary noises. (English summary) (*see* **2005f:60008**)

— (*with* Lévêque, Olivier) Second-order linear hyperbolic SPDEs driven by isotropic Gaussian noise on a sphere. (English summary) **2005h:60182**

Da Prato, Giuseppe (*with* Röckner, Michael) Invariant measures for a stochastic porous medium equation. (English summary) **2005h:60181**

— (*with* Röckner, Michael) Weak solutions to stochastic porous media equations. (English summary) **2005c:60078**

— (*with* Debussche, Arnaud) Absolute continuity of the invariant measures for some stochastic PDEs. (English summary) **2005i:60117**

— *see also* **Barbu, Viorel et al., 2005k:60190** *and* **Bogachev, Vladimir I. et al., 2005k:60191**

Dauer, J. P. (*with* Mahmudov, N. I.) Controllability of stochastic semilinear functional differential equations in Hilbert spaces. (English summary) **2005d:60094**

Davies, Ian M. (*with* Truman, Aubrey; Zhao, Huai Zhong) Stochastic heat and Burgers equations and the intermittence of turbulence. (English summary) (*see* **2005f:60008**)

— (*with* Truman, Aubrey; Zhao, Huai Zhong) Stochastic heat and Burgers equations and their singularities. II. Analytical properties and limiting distributions. (English summary) **2005m:60132**

De Bouard, A. (*with* Debussche, Arnaud; Tsutsumi, Yoshio) Periodic solutions of the Korteweg-de Vries equation driven by white noise. (English summary) **2005k:60194**

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— *see also* **Da Prato, Giuseppe, 2005i:60117**; **Barbu, Viorel et al., 2005k:60190** *and* **De Bouard, A. et al., 2005k:60194**

Denis, Laurent[2] Solutions of stochastic partial differential equations considered as Dirichlet processes. (English summary) **2005g:60099**

Dorogovtsev, Anatoliĭ Yakovich Time-stationary and time-periodic solutions for boundary value problems. (English summary) **2005f:60137**

Duan, Jin Qiao (*with* Lu, Kening; Schmalfuß, Björn) Smooth stable and unstable manifolds for stochastic evolutionary equations. (English summary) **2005j:60124**

— *see also* **Gugg, Christoph, 2005d:60095** *and* **Wang, Wei[6] et al., 2005k:60207**

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Flandoli, Franco (*with* Lisei, Hannelore) Stationary conjugation of flows for parabolic SPDEs with multiplicative noise and some applications. (English summary) **2005i:60118**

Fujita Yashima, Hisao Équation stochastique de dynamique de populations du type proie-prédateur avec diffusion dans un territoire. (English and French summaries) [Stochastic equation of population dynamics of prey-predator type with diffusion in a territory] **2005e:60126**

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Guatteri, G. (*with* Lisei, Hannelore) The stochastic characteristics method applied to a stochastic Schrödinger equation. (English summary) **2005b:60153**

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— On L_p-theory of stochastic partial differential equations of divergence form in C^1 domains. (English summary) **2005h:60185**

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— *see also* **Allouba, H., 2005e:60124** *and* **Caraballo Garrido, Tomás et al., 2005m:60131**

Lebedev, Vladimir Aleksandrovich Letter to the editors: "On the existence of weak solutions for stochastic differential equations with driving L^0-valued measures" [Teor. Veroyatnost. i Primenen. **47** (2002), no. 4, 672–685; MR2001785 (2004f:60138)]. (Russian)

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— (*with* Rozovskiĭ, B. L.) Global L_2-solutions of stochastic Navier-Stokes equations. (English summary) **2005k:60198**

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Mishra, M. N. (*with* Prakasa Rao, B. L. S.) On a Berry-Esseen type bound for the maximum likelihood estimator of a parameter for some stochastic partial differential equations. **2005g:60100**

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Reznikoff, Maria G. (*with* Vanden-Eijnden, Eric) Invariant measures of stochastic partial differential equations and conditioned diffusions. (English and French summaries)

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— *see also* **Da Prato, Giuseppe, 2005c:60078**; **2005h:60181** *and* **Bogachev, Vladimir I. et al., 2005k:60191**

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— (*with* Wu, Jiang-Lun) Stochastic Burgers equation with Lévy space-time white noise. (English summary) **2005k:60206**
— *see also* **Davies, Ian M. et al., 2005m:60132** *and* **(2005f:60008)**
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Wang, Hao[5] *see* **Li, Zeng Hu et al., 2005k:60197**
Wang, Wei[6] (*with* Sun, Jian Hua[1]; Duan, Jin Qiao) Ergodic dynamics of the stochastic Swift-Hohenberg system. (English summary) **2005k:60207**
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— (*with* Ren, Yong-Hong; Xia, Zun Quan) Symmetry reductions and soliton-like solutions for stochastic MKdV equation. (English summary)
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Zhang, Bo[6] (*with* Xue, Fang) Stability of stochastic evolution equations in Hilbert spaces. (English summary) **2005c:60081**
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Zhang, Wei-bin *see* **Zhang, Qi Min et al., 2005h:60190**
Zhao, Huai Zhong *see* **Davies, Ian M. et al., 2005m:60132** *and* **(2005f:60008)**

Items with secondary classifications in 60H15

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— (*with* Ferrario, B.) Invariant measures of Lévy-Khinchine type for 2D fluids. (English summary) **2005e:76067**
— (*with* Mazzucchi, S.) Some new developments in the theory of path integrals, with applications to quantum theory. (English summary) **2005c:81121**
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Ao, P. Potential in stochastic differential equations: novel construction. (English summary) **2005f:82081**
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Bal, Guillaume (*with* Komorowski, Tomasz; Ryzhik, Leonid) Self-averaging of Wigner transforms in random media. (English summary) **2005b:81085**
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— (*with* Langa, José A.; Valero, José) Addendum to: "Global attractors for multivalued random dynamical systems" [Nonlinear Anal. **48** (2002), no. 6, Ser. A: Theory Methods, 805–829; MR1878338 (2003a:37068)]. **2005j:37082**
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— (*with* Röckner, Michael) Large deviations for invariant measures of stochastic reaction-diffusion systems with multiplicative noise and non-Lipschitz reaction term. (English and French summaries) **2005k:60084**
Chen, Bin[2] (*with* Xie, Yingchao) Exact solutions for Wick-type stochastic coupled Kadomtsev-Petviashvili equations. (English summary) **2005i:35298**
Chen, Yong[3] (*with* Wang, Qi; Li, Biao) The stochastic soliton-like solutions of stochastic KdV equations. (English summary)
— (*with* Li, Biao) The stochastic soliton-like solutions of stochastic mKdV equations. (English summary) **2005j:35187**
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Chow, P. L. Semilinear stochastic wave equations. (English summary) **2005e:35264**
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— *see also* **E, Wei-nan et al.**, **2005d:35210**

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Tudor, Ciprian A. *see* **Tindel, Samy et al., 2005i:60073**

Valero, José *see* **Caraballo Garrido, Tomás et al., 2005j:37082**

Vanden-Eijnden, Eric *see* **E, Wei-nan et al., 2005f:60067**

Viens, Frederi *see* **Tindel, Samy et al., 2005h:60303** *and* **2005i:60073**

Voss, Jochen *see* **Stuart, Andrew M. et al.**

Vuillermot, P.-A. *see* **Chueshov, Igor D., 2005h:37197**

Wang, Qi *see* **Chen, Yong[3] et al.**

Wang, Yang[6] *see* **Xiao, Wen Ning et al., 2005m:60146**

Wang, Zi Kun[1] *see* **Li, Zeng Hu, 2005m:60191**

Weis, Lutz *see* **van Neerven, J. M. A. M., 2005j:60107**

Wiberg, Petter *see* **Stuart, Andrew M. et al.**

Willander, M. (*with* Mamontov, Yevgeny V.; Chiragwandi, Z.) Modelling living fluids with the subdivision into the components in terms of probability distributions. (English summary) **2005h:76069**

Winkler, Gerhard *see* **Martin, Andreas et al., (2005i:65006)**

Xiao, Wen Ning (*with* Wang, Yang[6]; Zhang, Ji Zhou) An investigation on pricing methods of the geometric average Asian options. (Chinese. English and Chinese summaries) **2005m:60146**

Xie, Yingchao *see* **Chen, Bin[2], 2005i:35298**

Xin, Jack KPP front speeds in random shears and the parabolic Anderson problem. (English summary) **2005g:35182**

Xiu, Dongbin (*with* Tartakovskiĭ, D. M.) A two-scale nonperturbative approach to uncertainty analysis of diffusion in random composites. (English summary) **2005h:74019**

Yang, Desheng The asymptotic behavior of the stochastic Ginzburg-Landau equation with multiplicative noise. (English summary) **2005h:37117**

Yasue, Ayako Bessel-like processes and SDE. **2005k:60188**

Yip, N. K. *see* **Souganidis, Panagiotis E., 2005a:53112**

Zhang, Ji Zhou *see* **Xiao, Wen Ning et al., 2005m:60146**

Zhang, Ping Wen *see* **E, Wei-nan et al., 2005d:35210** *and* **Li, Tiejun et al., 2005j:76005**

Zhang, Tu Sheng *see* **Hu, Yaozhong et al., 2005b:60174**

Zhang, Xu[1] *see* **Tang, Shanjian, 2005h:93092**

Zhou, Xiang *see* **Li, Tiejun et al., 2005j:76005**

Zouraris, Georgios E. *see* **Babuška, Ivo et al., 2005j:65134**

60H20 Stochastic integral equations

Bahlali, Khaled (*with* Mezerdi, B.; Ouknine, Youssef) Prevalence of backward stochastic differential equations with unique solution. **2005e:60138**

— (*with* Essaky, El Hassan; Ouknine, Youssef) Reflected backward stochastic differential equation with locally monotone coefficient. (English summary) **2005e:60139**

Baudoin, Fabrice Équations différentielles stochastiques conduites par des lacets dans les groupes de Carnot. (English and French summaries) [Stochastic differential equations driven by loops in Carnot groups] **2005g:60102**

Cao, Xiao Yong *see* **Zhou, Shaopu et al., 2005a:60098** *and* **2005h:60194**

Chen, Zeng Jing *see* **Ma, Li Xia**

Constantin, Gh. (*with* Negrea, Romeo) An application of Schauder's fixed point theorem in stochastic McShane's modelling. (English summary) **2005h:60191**

Essaky, El Hassan *see* **Bahlali, Khaled et al., 2005e:60139**

van Gaans, Onno (*with* Verduyn Lunel, Sjoerd M.) Long term behavior of dichotomous stochastic differential equations in Hilbert spaces. (English summary) **2005e:60140**

Guo, Xiao *see* **Zhou, Shaopu et al., 2005a:60098**

Hamedani, Hamideh D. Existence and uniqueness of semimonotone nonlinear stochastic integral equations. (*see* **2005i:00016**)

Janković, Svetlana *see* **Jovanović, Miljana, 2005h:60192**

Jiang, Long Some results on the uniqueness of generators of backward stochastic differential equations. (English and French summaries) **2005e:60141**

— Representation theorems for generators of backward stochastic differential equations. (English and French summaries) **2005j:60125**

Jovanović, Miljana (*with* Janković, Svetlana) L^{2m}-asymptotic behavior of solutions of perturbed stochastic integrodifferential equations. (English summary) **2005h:60192**

Krylov, Nicolai (*with* Röckner, Michael) Strong solutions of stochastic equations with singular time dependent drift. (English summary) **2005k:60209**

Kubilius, K. On weak solutions of an integral equation driven by a p-semimartingale of special type. (English summary) **2005c:60082**

Kulik, A. M. Anticipating linear stochastic differential equations by Poisson random measures. (English summary) **2005b:60160**

Lakhel, El Hassan Large deviation for stochastic Volterra equation in the Besov-Orlicz space and application. (English summary) **2005a:60096**

Łaukajtys, Weronika (*with* Słomiński, Leszek) Penalization methods for reflecting stochastic differential equations with jumps. (English summary) **2005j:60126**

Lazakovich, N. V. (*with* Yablonski, A. L.) On the approximation of the solutions of stochastic equations with θ-integrals. (English summary) **2005d:60098**

Lepeltier, Jean-Pierre (*with* San Martín, Jaime) Backward SDEs with two barriers and continuous coefficient: an existence result. (English summary) **2005b:60161**

Lin, Qing Quan Smoothness of the solution to a backward stochastic differential equation. (Chinese. English and Chinese summaries) **2005h:60193**

Ma, Li Xia (*with* Chen, Zeng Jing) Quasi-comparison theorem for stochastic differential equations. (English summary)

Marín-Rubio, P. (*with* Real Anguas, José) Some results on stochastic differential equations with reflecting boundary conditions. (English summary) **2005f:60138**

Mezerdi, B. *see* **Bahlali, Khaled et al., 2005e:60138**

Negrea, Romeo On the Cauchy-Maruyama approximation method for the solutions of McShane's stochastic integral equations. (English summary) **2005e:60142**

— On a class of stochastic integral operators of McShane type. (English summary) **2005i:60124**

— *see also* **Constantin, Gh., 2005h:60191**

Okonkwo, Zephyrinus C. On global existence for Itô-Volterra functional differential equations. (English summary) **2005d:60099**

Ouknine, Youssef *see* **Bahlali, Khaled et al., 2005e:60138** *and* **2005e:60139**

Pardoux, Étienne *see* **Sow, A. B., 2005j:60127**

Rang, Guanglin (*with* Xu, Kan) Pathwise uniqueness of the solutions to Volterra type stochastic differential equations in the plane. (English summary) **2005a:60097**

Real Anguas, José *see* **Marín-Rubio, P., 2005f:60138**

Röckner, Michael *see* **Krylov, Nicolai, 2005k:60209**

San Martín, Jaime *see* **Lepeltier, Jean-Pierre, 2005b:60161**

Słomiński, Leszek *see* **Łaukajtys, Weronika, 2005j:60126**

Sow, A. B. (*with* Pardoux, Étienne) Probabilistic interpretation of a system of quasilinear parabolic PDEs. (English summary) **2005j:60127**

Ta Quoc Bao On the existence, uniqueness and stability of solutions of stochastic Volterra-Ito equation. (English summary) **2005m:60138**

Verduyn Lunel, Sjoerd M. *see* **van Gaans, Onno, 2005e:60140**

Warren, Jon (*with* Watanabe, Shinzo) On spectra of noises associated with Harris flows. (English summary) **2005g:60103**

Watanabe, Shinzo *see* **Warren, Jon, 2005g:60103**

Xu, Kan *see* **Rang, Guanglin, 2005a:60097**

Yablonski, A. L. *see* **Lazakovich, N. V., 2005d:60098**

Yasins′kiĭ, V. K. *see* **Yurchenko, Ī. V., 2005k:60210**

Yurchenko, Ī. V. (*with* Yasins′kiĭ, V. K.) On the existence of the l-moment of a strong solution of stochastic Itô-Volterra integrodifferential equations. (Ukrainian. English summary) **2005k:60210**

Zhang, Tu Sheng A comparison theorem for solutions of backward stochastic differential equations with two reflecting barriers and its applications. (English summary) **2005j:60128**

Zhou, Shaopu (*with* Cao, Xiao Yong) Adapted solution of a backward semilinear stochastic evolution equation with non-Lipschitz coefficients. (Chinese. English and Chinese summaries) **2005h:60194**

— (*with* Cao, Xiao Yong; Guo, Xiao) Backward doubly stochastic differential equations. (Chinese. English and Chinese summaries) **2005a:60098**

Items with secondary classifications in 60H20

Aman, Auguste (*with* N'zi, Modeste) Backward stochastic differential equations with oblique reflection and local Lipschitz drift. (English summary) **2005a:60088**

Antonyuk, A. Val. Nonlinear symmetries of variational calculus and regularity properties of differential flows on non-compact manifolds. (English summary) **2005m:58077**

Appleby, John A. D. (*with* Freeman, Alan) Exponential asymptotic stability of linear Itô-Volterra equations with damped stochastic perturbations. (English summary) **2005a:60089**

Atar, Rami (*with* Burdzy, Krzysztof) On Neumann eigenfunctions in lip domains. **2005b:35037**

Bertoin, Jean (*with* Le Gall, Jean-François) Stochastic flows associated to coalescent processes. II. Stochastic differential equations. (English and French summaries) **2005m:60067**

Bobrovnits′ka, Ol′ga (*with* Schweizer, Martin) Mean-variance hedging and stochastic control: beyond the Brownian setting. (English summary) **2005c:91051**

Buckwar, Evelyn The Θ-Maruyama scheme for stochastic functional differential equations with distributed memory term. (English summary) **2005g:65024**

Burdzy, Krzysztof *see* **Atar, Rami, 2005b:35037**

Calin, Ovidiu L. (*with* Chang, Der-Chen) ★ Geometric mechanics on Riemannian manifolds. **2005h:58031**

Chang, Der-Chen *see* **Calin, Ovidiu L., 2005h:58031**

Chernyĭ, A. S. Convergence of some integrals associated with Bessel processes. (Russian. Russian summary) **2005b:60101**

Dawson, Donald A. (*with* Li, Zeng Hu) Construction of immigration superprocesses with dependent spatial motion from one-dimensional excursions. (English summary) **2005i:60163**

Delarue, François Auxiliary SDEs for homogenization of quasilinear PDEs with periodic coefficients. (English summary) **2005e:35015**

Fournier, Nicolas (*with* Giet, Jean-Sébastien) Convergence of the Marcus-Lushnikov process. (English summary) **2005b:60255**

Freeman, Alan *see* **Appleby, John A. D., 2005a:60089**

van Gaans, Onno A series approach to stochastic differential equations with infinite dimensional noise. (English summary) **2005m:60118**

Gardoń, Albert The order of approximations for solutions of Itô-type stochastic differential equations with jumps. (English summary) **2005b:60170**

Giet, Jean-Sébastien *see* **Fournier, Nicolas, 2005b:60255**

Glasserman, Paul (*with* Merener, Nicolas) Convergence of a discretization scheme for jump-diffusion processes with state-dependent intensities. (English summary) **2005b:65008**

Gradalski, Przemyslaw *see* **Janicki, Aleksander et al., (2005c:00014)**

Gusev, Sergeĭ Anatol′evich Application of stochastic differential equations to estimation of derivatives of the solution to parabolic equation with respect to spatial variables. (English summary) (*see* **2005i:65006**)

Harraj, N. (*with* Ouknine, Youssef; Turpin, I.) Double-barriers–reflected BSDEs with jumps and viscosity solutions of parabolic integrodifferential PDEs. **2005m:35127**

Hu, Yi-jun *see* **Liu, Yan[3], 2005j:91048**

Hu, Ying[1] (*with* Imkeller, Peter; Müller, Matthias) Partial equilibrium and market completion. (English summary) **2005m:91080**

Imkeller, Peter *see* **Hu, Ying[1] et al., 2005m:91080**

Inoue, K. (*with* Kanagawa, Shuya) Strong approximation of reflecting Brownian motion using penalty method and its approximation. (*see* **2005i:00016**)

Ishikawa, Yasushi Optimal control problem associated with jump processes. (English summary) **2005b:93163**

Izydorczyk, Adam *see* **Janicki, Aleksander et al., (2005c:00014)**

Jacod, Jean The Euler scheme for Lévy driven stochastic differential equations: limit theorems. (English summary) **2005f:65013**
Janicki, Aleksander (*with* Izydorczyk, Adam; Gradalski, Przemyslaw) Computer simulation of stochastic models with SDE-solver software package. (English summary) (*see* **2005c:00014**)
Kanagawa, Shuya *see* **Inoue, K.**, (**2005i:00016**)
Kang, Hye-Jeong *see* **Kwon, Youngmee**, **2005k:60181**
Kümmerer, Burkhard (*with* Maassen, H.) A pathwise ergodic theorem for quantum trajectories. (English summary) **2005j:82048**
Kwon, Youngmee (*with* Kang, Hye-Jeong) A class of nonlinear stochastic differential equations (SDES) with jumps derived by particle representations. (English summary) **2005k:60181**
Le Gall, Jean-François *see* **Bertoin, Jean**, **2005m:60067**
Li, Chunwah Lyapunov exponents of nonlinear stochastic differential equations with jumps. (English summary) **2005h:60171**
Li, Zeng Hu *see* **Dawson, Donald A.**, **2005i:60163**
Liu, Yan[3] (*with* Hu, Yi-jun) Risk theory for the model with variable premium rate and disturbed by diffusion in a Markovian environment. (English and Chinese summaries) **2005j:91048**
Maassen, H. *see* **Kümmerer, Burkhard**, **2005j:82048**
Mania, M. G. (*with* Santacroce, Marina; Tevzadze, Revaz) A semimartingale backward equation related to the p-optimal martingale measure and the lower price of a contingent claim. (English summary) **2005f:91072**
— (*with* Tevzadze, Revaz) A semimartingale backward equation and the variance-optimal martingale measure under general information flow. (English summary) **2005b:60168**
Merener, Nicolas *see* **Glasserman, Paul**, **2005b:65008**
Müller, Matthias *see* **Hu, Ying[1] et al.**, **2005m:91080**
N'zi, Modeste *see* **Aman, Auguste**, **2005a:60088**
Ouknine, Youssef *see* **Harraj, N. et al.**, **2005m:35127**
Peng, Shi Ge Filtration consistent nonlinear expectations and evaluations of contingent claims. (English summary) **2005e:60121**
— Dynamical evaluations. (English and French summaries)
Prakasa Rao, B. L. S. Parametric estimation for linear stochastic differential equations driven by fractional Brownian motion. (English summary) **2005a:62188**
— Sequential estimation for fractional Ornstein-Uhlenbeck type process. (English summary) **2005d:62127**
Priola, Enrico (*with* Zabczyk, Jerzy) Liouville theorems for non-local operators. (English summary) **2005g:35315**
Protter, Philip E. ★ Stochastic integration and differential equations. **2005k:60008**
Rabehasaina, Landy (*with* Sericola, Bruno) Stability analysis of second-order fluid flow models in a stationary ergodic environment. (English summary) **2005b:60246**
Santacroce, Marina *see* **Mania, M. G. et al.**, **2005f:91072**
Schweizer, Martin *see* **Bobrovnits'ka, Ol'ga**, **2005c:91051**
Sericola, Bruno *see* **Rabehasaina, Landy**, **2005b:60246**
Shaikhet, Leonid E. Stability of systems of stochastic linear difference equations with varying delays. (English summary) **2005k:60112**
Shevchenko, Georgiĭ Approximate integration of stochastic differential equations in a Hilbert space. (Ukrainian. English summary)
Stanislavskiĭ, A. A. A probabilistic interpretation of a fractional-order integral. (Russian. Russian summary) **2005f:28023**
Tevzadze, Revaz *see* **Mania, M. G. et al.**, **2005b:60168** *and* **2005f:91072**
Tudor, Constantin Fractional bilinear stochastic equations with the drift in the first fractional chaos. (English summary) **2005g:60091**
Turpin, I. *see* **Harraj, N. et al.**, **2005m:35127**
Xie, Yingchao On the estimations of smooth densities for integro-differential operators. (English summary) **2005d:60092**
Zabczyk, Jerzy *see* **Priola, Enrico**, **2005g:35315**
Zhang, Xicheng Horizontal lift of Ornstein-Uhlenbeck process over Riemannian path space. (English summary) **2005e:58064**
Zheng, Ziyu Numerical analysis of stochastic differential systems and its applications in finance. (English summary) (*see* **2005b:91009**)

60H25 Random operators and equations [see also 47B80]

Bahsoun, Wael (*with* Góra, Paweł; Boyarsky, Abraham) Small stochastic perturbations of random maps with position dependent probabilities. (English summary) **2005c:60083**
Boyarsky, Abraham *see* **Bahsoun, Wael et al.**, **2005c:60083**
Cai, Guo Liang (*with* Li, Yu Xiu; Huang, Bin) Solutions to a class of piecewise contractive parametric stochastic operator equations. (Chinese. English and Chinese summaries) **2005j:60129**
Chen, Ji Qian *see* **Chen, Ning[1]**, **2005i:60125**
Chen, Ning[1] (*with* Chen, Ji Qian) A note on random solutions for a class of random operator equations. (Chinese. English and Chinese summaries) **2005i:60125**
Đặng Hùng Thắng (*with* Thinh, Nguyen) On the extension of random operators. (English summary) **2005i:60126**
Dorogovtsev, Andrei A. On random measures on spaces of trajectories, and strong and weak solutions of stochastic equations. (Russian. English and Ukrainian summaries) **2005i:60127**
Góra, Paweł *see* **Bahsoun, Wael et al.**, **2005c:60083**
Huang, Bin *see* **Cai, Guo Liang et al.**, **2005j:60129**
Li, Yu Xiu *see* **Cai, Guo Liang et al.**, **2005j:60129**
Petz, Dénes (*with* Réffy, Júlia) On asymptotics of large Haar distributed unitary matrices. (English summary) **2005h:60195**
Réffy, Júlia *see* **Petz, Dénes**, **2005h:60195**
Reznikova, A. Ya. Limit theorems for the spectra of 1D random Schrödinger operator. (English summary) **2005h:60196**
Shahzad, Naseer Random fixed points of K-set- and pseudo-contractive random maps. (English summary) **2005e:60143**
Thinh, Nguyen *see* **Đặng Hùng Thắng**, **2005i:60126**
Ueki, Naomasa Wegner estimates and localization for Gaussian random potentials. (English summary) **2005c:60084**
Yurinskiĭ, V. V. On the principal eigenvalue of the Schrödinger operator with a scaled random potential. (English summary) **2005b:60162**

Items with secondary classifications in 60H25

Bank, Peter (*with* El Karoui, Nicole) A stochastic representation theorem with applications to optimization and obstacle problems. (English summary) **2005a:60046**
Basor, Estelle L. (*with* Widom, Harold) Wiener-Hopf determinants with Fisher-Hartwig symbols. (English summary) **2005c:47031**
Carmona, René (*with* Grishin, Stanislav A.; Molchanov, Stanislav Alekseevich) Asymptotics for the boundary parabolic Anderson problem in a half space. (English summary) **2005e:35263**
Chani, A. S. Discrete stochastic semigroups and associated difference equations with the random coefficients. (English summary) **2005d:60010**
Chawla, Man M. Simulating diffusion. (*see* **2005m:00008**)
Cho, Yeol Je *see* **Zhang, Shi Sheng et al.**, **2005k:47134**
Choudhury, Binayak S. An iteration for finding a common random fixed point. **2005h:47098**
Chueshov, Igor D. (*with* Lasiecka, Irena) Global attractors for von Karman evolutions with a nonlinear boundary dissipation. (English summary) **2005a:37150**
Combes, Jean-Michel (*with* Ruiz, Jean; Zagrebnov, Valentin A.) Preface [Special issue on mathematical aspects of random systems and statistical mechanics in honour of Leonid Pastur].
— (*with* Hislop, Peter D.; Klopp, Frédéric; Raĭkov, George D.) Global continuity of the integrated density of states for random Landau Hamiltonians. (English summary) **2005g:81091**
Đặng Hùng Thắng (*with* Thinh, Nguyen) Random bounded operators and their extension. (English summary) **2005i:47064**
Dhage, Bupurao C. (*with* Henderson, Johnny; Ingle, R. N.; Kang, Shin Min) Nonlinear perturbed two-point random boundary value problems. (English summary)
El Karoui, Nicole *see* **Bank, Peter**, **2005a:60046**
Germinet, François (*with* Klein, Abel) A characterization of the Anderson metal-insulator transport transition. (English summary) **2005e:82051**
Grishin, Stanislav A. *see* **Carmona, René et al.**, **2005e:35263**
Guatteri, G. (*with* Lisei, Hannelore) The stochastic characteristics method applied to a stochastic Schrödinger equation. (English summary) **2005b:60153**
Henderson, Johnny *see* **Dhage, Bupurao C. et al.**
Hida, Takeyuki Some of future directions of white noise analysis. (English summary) **2005h:60203**
Hislop, Peter D. (*with* Klopp, Frédéric) The integrated density of states for some random operators with nonsign definite potentials. (English summary) **2005a:82045**
— *see also* **Combes, Jean-Michel et al.**, **2005g:81091**
Hussain, Nawab *see* **Khan, Abdul Rahim**, **2005b:47129**
Ingle, R. N. *see* **Dhage, Bupurao C. et al.**
Kang, Shin Min *see* **Dhage, Bupurao C. et al.**
Khan, Abdul Rahim (*with* Hussain, Nawab) Random coincidence point theorem in Fréchet spaces with applications. (English summary) **2005b:47129**
Kim, Jong Kyu *see* **Zhang, Shi Sheng et al.**, **2005k:47134**
Klein, Abel *see* **Germinet, François**, **2005e:82051**
Klopp, Frédéric (*with* Wolff, Thomas H.) Lifshitz tails for 2-dimensional random Schrödinger operators. (English summary) **2005c:82046**
— *see also* **Hislop, Peter D.**, **2005a:82045** *and* **Combes, Jean-Michel et al.**, **2005g:81091**
Klüppelberg, Claudia (*with* Pergamenshchikov, Sergeĭ) Renewal theory for functionals of a Markov chain with compact state space. (English summary) **2005e:60204**
Kotani, Shinichi A thermodynamic limit of relative Fredholm determinant of Green operators for random Schrödinger operators. (English summary) **2005g:82064**
Kuusela, Mikko Large deviations of zeroes and fixed points of random maps with applications to equilibrium economics. **2005f:60068**
Lasiecka, Irena *see* **Chueshov, Igor D.**, **2005a:37150**
Li, Shi Kai *see* **Zhou, Hua Ren et al.**, **2005m:60153**
Lisei, Hannelore *see* **Guatteri, G.**, **2005b:60153**
Liu, Chang Yu *see* **Zhou, Hua Ren et al.**, **2005m:60153**
Molchanov, Stanislav Alekseevich *see* **Carmona, René et al.**, **2005e:35263**
Mustafa, Ghulam Random fixed point theorems for contractive type multifunctions. (English summary) **2005m:54065**
Najar, Hatem Asymptotic behavior of the integrated density of states of acoustic operators with random long range perturbations. (English summary) **2005a:82048**
(Pastur, Leonid Andreevich) *see* **Combes, Jean-Michel et al.**
Pergamenshchikov, Sergeĭ *see* **Klüppelberg, Claudia**, **2005e:60204**
Raĭkov, George D. *see* **Combes, Jean-Michel et al.**, **2005g:81091**
Ruiz, Jean *see* **Combes, Jean-Michel et al.**
Schulz-Baldes, Hermann Lifshitz tails for the 1D Bernoulli-Anderson model. (English summary) **2005e:82055**
Şerbănescu, Cristina The identification of the fermion stochastic integral of simple processes. (English summary) **2005a:81117**
Shahzad, Naseer Some general random coincidence point theorems. (English summary) **2005e:47137**
Shaikhet, Leonid E. Construction of Lyapunov functionals for stochastic difference equations with continuous time. (English summary) **2005j:39017**
Thinh, Nguyen *see* **Đặng Hùng Thắng**, **2005i:47064**
Veselić, Ivan Integrated density of states and Wegner estimates for random Schrödinger operators. (English summary) **2005b:82048**
Widom, Harold *see* **Basor, Estelle L.**, **2005c:47031**
Wolff, Thomas H. *see* **Klopp, Frédéric**, **2005c:82046**
Xu, Gui Ling *see* **Zhou, Hua Ren et al.**, **2005m:60153**
Xu, Zong Ben *see* **Zhu, Chuan Xi**, **2005g:47122**
Yamada, Hiroaki[1] Delocalization and sensitivity of quantum wavepacket in coherently perturbed kicked Anderson model. (English summary) **2005j:82040**
Zagrebnov, Valentin A. *see* **Combes, Jean-Michel et al.**

Zhang, Shi Sheng (*with* Cho, Yeol Je; Kim, Jong Kyu; Zhou, Hai Yun) Random Ishikawa iterative sequence with applications. (English summary) **2005k:47134**
Zhou, Hai Yun *see* **Zhang, Shi Sheng et al., 2005k:47134**
Zhou, Hua Ren (*with* Li, Shi Kai; Liu, Chang Yu; Xu, Gui Ling) Two completeness theorems of set-valued stochastic analysis. (Chinese. English and Chinese summaries) **2005m:60153**
Zhu, Chuan Xi (*with* Xu, Zong Ben) A class of random operator equations in the Hilbert space. (Chinese. English and Chinese summaries) **2005g:47122**

60H30 Applications of stochastic analysis (to PDE, etc.)

Akushevich, I. (*with* Kulminski, A.; Manton, K. G.) Life tables with covariates: dynamic model for nonlinear analysis of longitudinal data. (English summary)
Andersen, Torben G. (*with* Bollerslev, Tim; Meddahi, Nour) Analytical evaluation of volatility forecasts. (English summary) **2005e:60144**
Aurell, Erik (*with* Muratore-Ginanneschi, Paolo) Growth-optimal strategies with quadratic friction over finite-time investment horizons. (English summary)
Averina, T. A. Algorithm of statistical simulation of dynamic systems with conditional Markovian change of structure. (English summary) (*see* **2005i:65006**)
Barndorff-Nielsen, Ole E. (*with* Graversen, Svend Erik; Shephard, Neil) Power variation and stochastic volatility: a review and some new results. (English summary) **2005e:60145**
Baudoin, Fabrice Modeling anticipations on financial markets. (English summary) **2005a:60099**
Bauer, Robert O. (*with* Friedrich, Roland M.) Stochastic Loewner evolution in multiply connected domains. (English and French summaries)
Bäuerle, Nicole Traditional versus non-traditional reinsurance in a dynamic setting. (English summary) **2005i:60128**
Becherer, Dirk (*with* Schweizer, Martin) Classical solutions to reaction-diffusion systems for hedging problems with interacting Itô and point processes. (English summary) **2005k:60211**
Bernard, Carole (*with* Le Courtois, Olivier; Quittard-Pinon, François) Market value of life insurance contracts under stochastic interest rates and default risk. (English summary)
Bollerslev, Tim *see* **Andersen, Torben G. et al., 2005e:60144**
Boufoussi, Brahim (*with* van Casteren, Jan A.) An approximation result for a nonlinear Neumann boundary value problem via BSDEs. (English summary) **2005j:60130**
Buckdahn, Rainer (*with* Ichihara, Naoyuki) Limit theorem for controlled backward SDEs and homogenization of Hamilton-Jacobi-Bellman equations. (English summary) **2005j:60131**
Carbonaro, B. (*with* Giordano, C.) A second step towards a stochastic mathematical description of human feelings. (English summary) **2005m:60139**
Carmona, René (*with* Tehranchi, Michael) A characterization of hedging portfolios for interest rate contingent claims. (English summary) **2005d:60100**
Carrière, J. F. Martingale valuation of cash flows for insurance and interest models. (English summary)
van Casteren, Jan A. *see* **Boufoussi, Brahim, 2005j:60130**
Chen, Dian-fa Optimal premium in randomly constrained markets. (English and Chinese summaries) **2005b:60163**
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— The application of stochastic analysis to countable allelic diffusion model. (English summary) **2005b:60164**
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Ewald, Christian-Oliver Optimal logarithmic utility and optimal portfolios for an insider in a stochastic volatility market. (English summary) **2005m:60140**
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— Pricing of options with the rate of mean reverting processes. (Chinese. English and Chinese summaries) **2005i:60130**
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— *see also* **Jaimungal, Sebastian** *and* **Moore, Kristen S.**
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Barndorff-Nielsen, Ole E. (*with* Shephard, Neil) Corrections: "Realized power variation and stochastic volatility models" [Bernoulli **9** (2003), no. 2, 243–265; MR1997029 (2004d:91098)]. **2005b:91100**
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Ghanem, Roger G. • *see* **Soize, Christian**
Grigoriu, Mircea Dynamic systems with Poisson white noise. (English summary) **2005h:60201**
Grzwaczewski, Marek *see* **Filatova, Daria et al.**
Inoue, K. (*with* Kanagawa, Shuya) Strong approximation of reflecting Brownian motion using penalty method and its approximation. (*see* **2005i:00016**)
Jacod, Jean (*with* Kurtz, Thomas G.; Méléard, Sylvie; Protter, Philip E.) The approximate Euler method for Lévy driven stochastic differential equations. (English and French summaries) **2005m:60149**
Jódar, Lucas *see* **Cortés López, Juan Carlos et al.**
Kamyad, Ali V. *see* **Fard, Omid S., 2005m:60148**
Kanagawa, Shuya *see* **Inoue, K., (2005i:00016)**
Kurtz, Thomas G. *see* **Jacod, Jean et al., 2005m:60149**
Kuske, R. Multi-scale dynamics in stochastic delay differential equations with multiplicative noise. (English summary)
Lepingle, Dominique (*with* Nguyen, Thi Thao) Approximating and simulating multivalued stochastic differential equations. (English summary) **2005h:60202**
Liu, Ming Zhu *see* **Cao, Wan Rong et al., 2005e:60148** *and* **2005m:60147**
Loghmani, G. Barid A class of high strong order implicit Runge-Kutta methods for stochastic ordinary differential equations. (English summary) **2005a:60106**
Lord, Gabriel J. (*with* Rougemont, Jacques) A numerical scheme for stochastic PDEs with Gevrey regularity. (English summary) **2005d:60102**
Malliavin, Paul *see* **Cruzeiro, Ana Bela et al., 2005c:60087**
Mannella, R. Quasisymplectic integrators for stochastic differential equations. (English summary) **2005e:60149**
Manouzi, Hassan (*with* Theting, Thomas Gorm) Mixed finite element approximation for the stochastic pressure equation of Wick type. (English summary) **2005e:60150**
Mao, Xuerong *see* **Yuan, Cheng Gui, 2005j:60133**
McDonald, A. David *see* **Filatova, Daria et al.**
Méléard, Sylvie *see* **Jacod, Jean et al., 2005m:60149**
Moon, Kyoung-Sook (*with* Szepessy, Anders; Tempone, Raúl; Zouraris, Georgios E.) Convergence rates for adaptive weak approximation of stochastic differential equations. (English summary) **2005m:60150**
Mora, Carlos M. Numerical simulation of stochastic evolution equations associated to quantum Markov semigroups. (English summary) **2005b:60171**
Nguyen, Thi Thao *see* **Lepingle, Dominique, 2005h:60202**
Pettersson, Roger (*with* Signahl, Mikael) Numerical approximation for a white noise driven SPDE with locally bounded drift. (English summary) **2005k:60215**
Potapov, V. D. Stability of stochastic systems with memory. (English summary)
Protter, Philip E. *see* **Jacod, Jean et al., 2005m:60149**
Rößler, Andreas Stochastic Taylor expansions for the expectation of functionals of diffusion processes. (English summary) **2005m:60151**
Rougemont, Jacques *see* **Lord, Gabriel J., 2005d:60102**
Sevilla-Peris, Pablo *see* **Cortés López, Juan Carlos et al.**
Shevchenko, Georgīĭ Approximate integration of stochastic differential equations in a Hilbert space. (Ukrainian. English summary)
Signahl, Mikael *see* **Pettersson, Roger, 2005k:60215**
Soize, Christian (*with* Ghanem, Roger G.) Physical systems with random uncertainties: chaos representations with arbitrary probability measure. (English summary)
Stuart, Andrew M. (*with* Voss, Jochen; Wiberg, Petter) Fast communication conditional path sampling of SDEs and the Langevin MCMC method. (English summary)
Szepessy, Anders *see* **Moon, Kyoung-Sook et al., 2005m:60150**
Talay, Denis New challenges for the simulation of stochastic processes. (English summary) (*see* **2005b:65002**)
Tempone, Raúl *see* **Moon, Kyoung-Sook et al., 2005m:60150**
Thalmaier, Anton *see* **Cruzeiro, Ana Bela et al., 2005c:60087**
Theting, Thomas Gorm Numerical solution of Wick-stochastic partial differential equations. (English summary) **2005k:60216**
— *see also* **Manouzi, Hassan, 2005e:60150**
Voss, Jochen *see* **Stuart, Andrew M. et al.**
Wang, Xia[3] (*with* Yang, Xiao Hua) Approximation result for SDE with non-Lipschitz coefficients. (English and Chinese summaries) **2005k:60217**
Wiberg, Petter *see* **Stuart, Andrew M. et al.**
Yang, Xiao Hua *see* **Wang, Xia[3], 2005k:60217**
Yuan, Cheng Gui (*with* Mao, Xuerong) Stationary distributions of Euler-Maruyama-type stochastic difference equations with Markovian switching and their convergence. (English summary) **2005j:60133**
Zouraris, Georgios E. *see* **Moon, Kyoung-Sook et al., 2005m:60150**

Items with secondary classifications in 60H35

Acebrón, Juan A. (*with* Spigler, Renato) Fast simulations of stochastic dynamical systems. (English summary) **2005m:37199**
Averina, T. A. Algorithm of statistical simulation of dynamic systems with conditional Markovian change of structure. (English summary) (*see* **2005i:65006**)
Babuška, Ivo (*with* Tempone, Raúl; Zouraris, Georgios E.) Solving elliptic boundary value problems with uncertain coefficients by the finite element method: the stochastic formulation. (English summary) **2005j:65134**
Bahlali, Khaled (*with* Eddahbi, M'hamed; El Hassan, Essaky) Quasi-linear parabolic SPDEs with continuous coefficients. (English summary) **2005g:60098**
Baker, Christopher T. H. (*with* Ford, Judith M.; Ford, Neville J.) Bifurcations in approximate solutions of stochastic delay differential equations. (English summary) **2005k:34321**
Baxendale, Peter H. Stochastic averaging and asymptotic behavior of the stochastic Duffing-van der Pol equation. (English summary) **2005f:60130**
Berkaoui, A. Euler scheme for solutions of stochastic differential equations with non-Lipschitz coefficients. (English summary) **2005k:65014**
Bokor, Rózsa Horváth On strong consistency for one-step approximations of stochastic ordinary differential equations. (English summary) **2005m:65011**
Brugnano, Luigi (*with* Carreras, Giulia; Burrage, Kevin) On the convergence of LMF-type methods for SODEs. (English summary) **2005g:65023**
Buckwar, Evelyn The Θ-Maruyama scheme for stochastic functional differential equations with distributed memory term. (English summary) **2005g:65024**
Burrage, Kevin *see* **Brugnano, Luigi et al., 2005g:65023**
Cao, Wan Rong *see* **Liu, Ming Zhu et al., 2005f:65014**
Carreras, Giulia *see* **Brugnano, Luigi et al., 2005g:65023**
Chan, Raymond H. (*with* Chen, Yong; Yeung, K. M.) A memory reduction method in pricing American options. (English summary) **2005h:65007**
Chen, Yong *see* **Chan, Raymond H. et al., 2005h:65007**
Eddahbi, M'hamed *see* **Bahlali, Khaled et al., 2005g:60098**
El Hassan, Essaky *see* **Bahlali, Khaled et al., 2005g:60098**
El-Tahan, W. *see* **El-Tawil, Magdy A. et al., 2005i:65013**
El-Tawil, Magdy A. (*with* El-Tahan, W.; Hussein Zaki, Abdellah) A proposed technique of SFEM on solving ordinary random differential equation. (English summary)

2005i:65013
Fan, Zhencheng *see* **Liu, Ming Zhu et al., 2005f:65014**
Fedchenko, N. V. (*with* Prigarin, S. M.) Boundary value problems for linear stochastic differential equations. (English summary) **2005k:65016**
Ford, Judith M. *see* **Baker, Christopher T. H. et al., 2005k:34321**
Ford, Neville J. (*with* Norton, Stewart J.) Numerical investigation of D-bifurcations for a stochastic delay logistic equation. (English summary)
— *see also* **Baker, Christopher T. H. et al., 2005k:34321**
Frauenfelder, Philipp (*with* Schwab, Christoph; Todor, Radu Alexandru) Finite elements for elliptic problems with stochastic coefficients. (English summary) **2005i:65186**
Geiss, Christel (*with* Geiss, Stefan) On approximation of a class of stochastic integrals and interpolation. (English summary) **2005f:60125**
Geiss, Stefan *see* **Geiss, Christel, 2005f:60125**
Glasserman, Paul (*with* Merener, Nicolas) Convergence of a discretization scheme for jump-diffusion processes with state-dependent intensities. (English summary) **2005b:65008**
Gradalski, Przemyslaw *see* **Janicki, Aleksander et al., (2005c:00014)**
Gyöngy, István (*with* Krylov, Nicolai) On the rate of convergence of splitting-up approximations for SPDEs. (English summary) **2005f:65012**
— (*with* Michaletzky, György) On Wong-Zakai approximations with δ-martingales. (English summary) **2005b:60147**
Higham, Desmond J. (*with* Mao, Xuerong; Stuart, Andrew M.) Exponential mean-square stability of numerical solutions to stochastic differential equations. (English summary) **2005a:65005**
Hofmann, Norbert (*with* Müller-Gronbach, Thomas) On the global error of Itô-Taylor schemes for strong approximation of scalar stochastic differential equations. (English summary) **2005g:65025**
Hussein Zaki, Abdellah *see* **El-Tawil, Magdy A. et al., 2005i:65013**
Izydorczyk, Adam *see* **Janicki, Aleksander et al., (2005c:00014)**
Janicki, Aleksander (*with* Izydorczyk, Adam; Gradalski, Przemyslaw) Computer simulation of stochastic models with SDE-solver software package. (English summary) (*see* **2005c:00014**)
Kamiński, Marcin Stochastic perturbation approach to the wavelet-based analysis. (English summary) **2005f:42088**
Kanagawa, Shuya (*with* Ogawa, Shigeyoshi) Numerical solutions of stochastic differential equations and their applications [translation of Sūgaku **53** (2001), no. 2, 125–138; MR1839957]. (*see* **2005j:00022**)
Karniadakis, George Em *see* **Lucor, Didier, 2005j:37083**
Keese, Andreas *see* **Matthies, Hermann G., 2005j:65146**
Krylov, Nicolai *see* **Gyöngy, István, 2005f:65012**
Kurtz, Thomas G. (*with* Xiong, Jie) A stochastic evolution equation arising from the fluctuations of a class of interacting particle systems. (English summary) **2005m:60136**
Liu, Ming Zhu (*with* Cao, Wan Rong; Fan, Zhencheng) Convergence and stability of the semi-implicit Euler method for a linear stochastic differential delay equation. (English summary) **2005f:65014**
Lucor, Didier (*with* Karniadakis, George Em) Adaptive generalized polynomial chaos for nonlinear random oscillators. (English summary) **2005j:37083**
Lyons, Terry (*with* Victoir, Nicolas) Cubature on Wiener space. (English summary) **2005b:35306**
Mao, Xuerong (*with* Yuan, Cheng Gui; Yin, Gang George) Numerical method for stationary distribution of stochastic differential equations with Markovian switching. (English summary) **2005g:65026**
— *see also* **Higham, Desmond J. et al., 2005a:65005** *and* **Yuan, Cheng Gui, 2005g:65027**
Martin, Andreas (*with* Prigarin, S. M.; Winkler, Gerhard) "Exact" numerical algorithms for linear stochastic wave equation and stochastic Klein-Gordon equation. (English summary) (*see* **2005i:65006**)
Matthies, Hermann G. (*with* Keese, Andreas) Galerkin methods for linear and nonlinear elliptic stochastic partial differential equations. (English summary) **2005j:65146**
Merener, Nicolas *see* **Glasserman, Paul, 2005b:65008**
Michaletzky, György *see* **Gyöngy, István, 2005b:60147**
Mil′shteĭn, G. N. (*with* Tret′yakov, Mikhail V.) ★ Stochastic numerics for mathematical physics. **2005f:60004**
— (*with* Tret′yakov, Mikhail V.) Evaluation of conditional Wiener integrals by numerical integration of stochastic differential equations. (English summary) **2005c:65007**
Müller-Gronbach, Thomas *see* **Hofmann, Norbert, 2005g:65025**
Nieuwenhuis, J. W. (*with* Vellekoop, M. H.) Weak convergence of tree methods to price options on defaultable assets. (English summary) **2005k:60213**
Norton, Stewart J. *see* **Ford, Neville J.**
Ogawa, Shigeyoshi Introduction to the discrete approximation of stochastic differential equations [translation of Sūgaku **53** (2001), no. 1, 34–45; MR1816982]. (English summary) (*see* **2005j:00022**)
— *see also* **Kanagawa, Shuya, (2005j:00022)**
Pagès, Gilles (*with* Pham, Huyên; Printems, Jacques) An optimal Markovian quantization algorithm for multi-dimensional stochastic control problems. (English summary) **2005i:65014**
Pham, Huyên *see* **Pagès, Gilles et al., 2005i:65014**
Prigarin, S. M. *see* **Fedchenko, N. V., 2005k:65016** *and* **Martin, Andreas et al., (2005i:65006)**
Printems, Jacques *see* **Pagès, Gilles et al., 2005i:65014**
Sabelfeld, Karl K. Stochastic Lagrangian models for simulation of particle transport in porous media. (English summary) (*see* **2005i:65006**)
Schwab, Christoph *see* **Frauenfelder, Philipp et al., 2005i:65186**
Self, Steven G. *see* **Wick, David, 2005b:92050**
Shardlow, Tony Numerical simulation of stochastic PDEs for excitable media. (English summary) **2005k:65017**
Spigler, Renato *see* **Acebrón, Juan A., 2005m:37199**
Stuart, Andrew M. *see* **Higham, Desmond J. et al., 2005a:65005**
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Todor, Radu Alexandru *see* **Frauenfelder, Philipp et al., 2005i:65186**
Torres, Soledad (*with* Tudor, Ciprian A.) The Euler scheme for a class of anticipating stochastic differential equations. (English summary) **2005f:60135**
Tret′yakov, Mikhail V. *see* **Mil′shteĭn, G. N., 2005c:65007** *and* **2005f:60004**
Tudor, Ciprian A. *see* **Torres, Soledad, 2005f:60135**
Uchida, Masayuki Minimum contrast estimation for discretely observed diffusion processes with small dispersion parameter. (English summary) **2005m:62150**
Vellekoop, M. H. *see* **Nieuwenhuis, J. W., 2005k:60213**
Victoir, Nicolas *see* **Lyons, Terry, 2005b:35306**
Wick, David (*with* Self, Steven G.) On simulating strongly interacting, stochastic population models. II. Multiple compartments. (English summary) **2005b:92050**
Winkler, Gerhard *see* **Martin, Andreas et al., (2005i:65006)**
Xiong, Jie *see* **Kurtz, Thomas G., 2005m:60136**
Yeung, K. M. *see* **Chan, Raymond H. et al., 2005h:65007**
Yin, Gang George *see* **Mao, Xuerong et al., 2005g:65026**
Yuan, Cheng Gui (*with* Mao, Xuerong) Stability in distribution of numerical solutions for stochastic differential equations. (English summary) **2005g:65027**
— *see also* **Mao, Xuerong et al., 2005g:65026**
Zouraris, Georgios E. *see* **Babuška, Ivo et al., 2005j:65134**

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Al′shanskiĭ, M. A. A model of a Hilbert space-valued white noise. (Russian) **2005e:60151**
Berezanskiĭ, Yuriĭ Makarovich (*with* Tesko, V. A.) Spaces of fundamental and generalized functions associated with generalized translation. (Ukrainian. English and Ukrainian summaries) **2005f:60141**
Biagini, Francesca (*with* Øksendal, Bernt K.; Sulem, Agnès; Wallner, Naomi) An introduction to white-noise theory and Malliavin calculus for fractional Brownian motion. (English summary) **2005a:60107**
Chen, Bin² White noise functional solutions of a Wick-type stochastic Fisher equation. (Chinese. English and Chinese summaries)
Chew, Tuan-Seng *see* **Wang, Cai Shi et al., 2005e:60153**
Ermakov, M. S. Minimax detection of a signal in weighted Gaussian white noise. (Russian. English and Russian summaries) **2005k:60218**
Giraud, Christophe Some properties of Burgers turbulence with White noise initial conditions. (English summary) (*see* **2005c:60001**)
Givon, Dror (*with* Kupferman, Raz) White noise limits for discrete dynamical systems driven by fast deterministic dynamics. (English summary) **2005g:60108**
Hida, Takeyuki Innovation approach to stochastic processes and quantum dynamics. (English summary) **2005k:60219**
— White noise analysis—a more general approach. (English summary) **2005e:60152**
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— Some of future directions of white noise analysis. (English summary) **2005h:60203**
— A frontier of white noise analysis, in line with Itô calculus. (English summary) **2005i:60133**
Hu, Yaozhong (*with* Øksendal, Bernt K.; Zhang, Tu Sheng) General fractional multiparameter white noise theory and stochastic partial differential equations. (English summary) **2005b:60174**
Huang, Zhiyuan (*with* Wu, Ying²) Interacting Fock expansion of Lévy white noise functionals. (English summary) **2005d:60103**
— *see also* **Wang, Cai Shi et al., 2005e:60153** *and* **2005k:60221**
Kondrat′ev, Yu. G. (*with* Kuna, Tobias; Oliveira, Maria João) On the relations between Poissonian white noise analysis and harmonic analysis on configuration spaces. (English summary) **2005f:60142**
Kuna, Tobias *see* **Kondrat′ev, Yu. G. et al., 2005f:60142**
Kuo, Hui-Hsiung (*with* Saitô, Kimiaki; Stan, Aurel) A Hausdorff-Young inequality for white noise analysis. (English summary) **2005a:60108**
Kupferman, Raz (*with* Pavliotis, G. A.; Stuart, Andrew M.) Itô versus Stratonovich white-noise limits for systems with inertia and colored multiplicative noise. (English summary) **2005k:60220**
— *see also* **Givon, Dror, 2005g:60108**
Lee, Yuh-Jia (*with* Shih, Hsin-Hung) Analysis of generalized Lévy white noise functionals. (English summary) **2005c:60088**
Lytvynov, Eugene The square of white noise as a Jacobi field. (English summary) **2005m:60152**
Obata, Nobuaki (*with* Saitô, Kimiaki) Cauchy processes and the Lévy Laplacian. (English summary) **2005g:60109**
Øksendal, Bernt K. (*with* Proske, Frank) White noise of Poisson random measures. (English summary) **2005i:60134**
— *see also* **Biagini, Francesca et al., 2005a:60107** *and* **Hu, Yaozhong et al., 2005b:60174**
Oliveira, Maria João *see* **Kondrat′ev, Yu. G. et al., 2005f:60142**
Ouerdiane, Habib (*with* Privault, Nicolas) Asymptotic estimates for white noise distributions. (English and French summaries) **2005b:60175**
Pavliotis, G. A. *see* **Kupferman, Raz et al., 2005k:60220**
Privault, Nicolas *see* **Ouerdiane, Habib, 2005b:60175**
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Shih, Hsin-Hung *see* **Lee, Yuh-Jia, 2005c:60088**
Silva, José Luis (*with* Streit, Ludwig) Feynman integrals and white noise analysis. (English summary) **2005j:60134**
Stan, Aurel *see* **Kuo, Hui-Hsiung et al., 2005a:60108**
Streit, Ludwig *see* **Silva, José Luis, 2005j:60134**
Stuart, Andrew M. *see* **Kupferman, Raz et al., 2005k:60220**
Sulem, Agnès *see* **Biagini, Francesca et al., 2005a:60107**
Tesko, V. A. *see* **Berezanskiĭ, Yuriĭ Makarovich, 2005f:60141**
Wallner, Naomi *see* **Biagini, Francesca et al., 2005a:60107**
Wang, Cai Shi (*with* Huang, Zhiyuan; Chew, Tuan-Seng) Quantum integral equations with kernels of quantum white noise in space and time. (English summary) **2005e:60153**
— Chaos decompositions of B-valued generalized functionals of white noise. (English and Chinese summaries) **2005d:60104**

— (*with* Huang, Zhiyuan; Wang, Xiang Jun[2]) δ-function of an operator: a white noise approach. (English summary) **2005k:60221**
Wang, Xiang Jun[2] *see* **Wang, Cai Shi et al., 2005k:60221**
Wu, Ying[2] *see* **Huang, Zhiyuan, 2005d:60103**
Zhang, Tu Sheng *see* **Hu, Yaozhong et al., 2005b:60174**

Items with secondary classifications in 60H40

Accardi, Luidgi (*with* Kozyrev, Sergei) Superfluidity in the stochastic limit. (English summary) **2005f:82137**
— (*with* Amosov, G. G.; Franz, Uwe[1]) Second quantized automorphisms of the renormalized square of white noise (RSWN) algebra. (English summary) **2005d:81215**
Al'beverio, S. (*with* Mazzucchi, S.) Some new developments in the theory of path integrals, with applications to quantum theory. (English summary) **2005c:81121**
Amosov, G. G. *see* **Accardi, Luidgi et al., 2005d:81215**
Bayraktar, Erhan (*with* Poor, H. Vincent) Stochastic differential games in a non-Markovian setting. (English summary) **2005k:91042**
Bender, Christian (*with* Elliott, Robert J.) On the Clark-Ocone theorem for fractional Brownian motions with Hurst parameter bigger than a half. (English summary) **2005d:60057**
Bonanno, Claudio The algorithmic information content for randomly perturbed systems. (English summary) **2005b:28025**
Elliott, Robert J. *see* **Bender, Christian, 2005d:60057**
Fan, Xiao Ming[3] Random attractor for a damped sine-Gordon equation with white noise. (English summary) **2005f:37167**
Fannjiang, Albert C. (*with* Sølna, Knut) Scaling limits for beam wave propagation in atmospheric turbulence. (English summary) **2005i:86011**
de Faria, Margarida (*with* Rezgui, Anis; Streit, Ludwig) Martingale approximation for self-intersection local time of Brownian motion. (English summary) **2005i:60155**
Franz, Uwe[1] *see* **Accardi, Luidgi et al., 2005d:81215**
Goldenshluger, Alexander (*with* Pereverzev, Sergei V.) On adaptive inverse estimation of linear functionals in Hilbert scales. (English summary) **2005e:62048**
Golubev, G. K. Reconstruction of sparse vectors in white Gaussian noise. (Russian. Russian summary) **2005g:94017**
Gough, John Edward Quantum white noises and the master equation for Gaussian reference states. (English summary) **2005j:81090**
Grigoriu, Mircea Dynamic systems with Poisson white noise. (English summary) **2005h:60201**
Gualtierotti, A. F. Skew-normal processes as models for random signals corrupted by Gaussian noise. (English summary)
Hahn, Atle The Wilson loop observables of Chern-Simons theory on $\mathbb{R}^3$ in axial gauge. (English summary) **2005e:81140**
— Chern-Simons theory on $\mathbb{R}^3$ in axial gauge: a rigorous approach. (English summary) **2005e:58013**
Hida, Takeyuki (*with* Si, Si) ★ An innovation approach to random fields. **2005k:60006**
— White noise theory and physics. (English summary) **2005g:81170**
(Hora, Akihito) *see* **Non-commutativity, infinite-dimensionality and probability at the crossroads, 2005a:81119**
Huang, Chen-Chih *see* **Lee, Yuh-Jia, 2005k:60262**
Huang, Zhiyuan (*with* Rang, Guanglin) White noise approach to the construction of Φ^4_4 quantum fields. (English summary) **2005a:81131**
— (*with* Rang, Guanglin) Generalized operators and $P(\varphi)_2$ quantum fields. (English summary) **2005j:81106**
Ji, Un Cig (*with* Obata, Nobuaki) Quantum white noise calculus. (English summary) **2005c:81117**
— (*with* Obata, Nobuaki) A role of Bargmann-Segal spaces in characterization and expansion of operators on Fock space. (English summary) **2005b:46076**
Kachanovskiĭ, N. A. A generalized stochastic derivative connected with coloured noise measures. (English summary) **2005i:60103**
Kolkovska, Ekaterina T. On a stochastic partial differential equation with a noisy term. (English summary) **2005e:60129**
Kozyrev, Sergei *see* **Accardi, Luidgi, 2005f:82137**
Kuksin, Sergei B. The Eulerian limit for 2D statistical hydrodynamics. (English summary) **2005e:76030**
Lanconelli, Alberto (*with* Proske, Frank) On explicit strong solution of Itô-SDE's and the Donsker delta function of a diffusion. (English summary) **2005h:60186**
Lee, Jihoon (*with* Wu, Ming-Yih) Ergodicity for the dissipative Boussinesq equations with random forcing. (English summary) **2005i:35219**
Lee, Yuh-Jia (*with* Huang, Chen-Chih) Itô formula for generalized functionals of Brownian bridge. (English summary) **2005k:60262**
— (*with* Shih, Hsin-Hung) The product formula of multiple Lévy-Itô integrals. (English summary) **2005e:60103**
Le Jan, Yves (*with* Raimond, Olivier) Flows, coalescence and noise. (English summary) **2005c:60075**
Lévy, Thierry Yang-Mills measure on compact surfaces. (English summary) **2005a:58016**
Lindner, Benjamin Moments of the first passage time under external driving. (English summary) **2005f:60154**
Liu, Kun Hui Boundedness of a derived function of a solution about a class of diffusion variational equations. (English summary) **2005f:34098**
Løkka, Arne (*with* Øksendal, Bernt K.; Proske, Frank) Stochastic partial differential equations driven by Lévy space-time white noise. (English summary) **2005d:60078**
Lototskiĭ, S. V. (*with* Rozovskiĭ, B. L.) The passive scalar equation in a turbulent incompressible Gaussian velocity field. (Russian. Russian summary) **2005e:76051**
Lytvynov, Eugene An equivalent representation of the Jacobi field of a Lévy process. (English summary)
Mataramvura, Sure (*with* Øksendal, Bernt K.; Proske, Frank) The Donsker delta function of a Lévy process with application to chaos expansion of local time. (English and French summaries) **2005h:60140**
(Matsui, Taku) *see* **Non-commutativity, infinite-dimensionality and probability at the crossroads, 2005a:81119**
Mazzucchi, S. *see* **Al'beverio, S., 2005c:81121**
Meyer-Brandis, Thilo (*with* Proske, Frank) Explicit solution of a non-linear filtering problem for Lévy processes with application to finance. (English summary) **2005e:60089**
Obata, Nobuaki *see* **Non-commutativity, infinite-dimensionality and probability at the crossroads, 2005a:81119; Ji, Un Cig, 2005b:46076** *and* **2005c:81117**
Øksendal, Bernt K. *see* **Løkka, Arne et al., 2005d:60078** *and* **Mataramvura, Sure et al., 2005h:60140**
Ouerdiane, Habib Infinite dimensional entire functions and applications to stochastic differential equations. (English summary) **2005d:46096**
Pereverzev, Sergei V. *see* **Goldenshluger, Alexander, 2005e:62048**
Pettersson, Roger (*with* Signahl, Mikael) Numerical approximation for a white noise driven SPDE with locally bounded drift. (English summary) **2005k:60215**
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Poor, H. Vincent *see* **Bayraktar, Erhan, 2005k:91042**
Proske, Frank *see* **Løkka, Arne et al., 2005d:60078; Meyer-Brandis, Thilo, 2005e:60089; Mataramvura, Sure et al., 2005h:60140** *and* **Lanconelli, Alberto, 2005h:60186**
Puig, Bénédicte (*with* Poirion, Fabrice) White noise and simulation of ordinary Gaussian processes. (English summary) **2005c:60039**
Raimond, Olivier *see* **Le Jan, Yves, 2005c:60075**
Rang, Guanglin *see* **Huang, Zhiyuan, 2005a:81131** *and* **2005j:81106**
Rezgui, Anis *see* **de Faria, Margarida et al., 2005i:60155**
Rozovskiĭ, B. L. *see* **Lototskiĭ, S. V., 2005e:76051**
Shih, Hsin-Hung *see* **Lee, Yuh-Jia, 2005e:60103**
Si, Si *see* **Hida, Takeyuki, 2005k:60006**
Signahl, Mikael *see* **Pettersson, Roger, 2005k:60215**
Sølna, Knut *see* **Fannjiang, Albert C., 2005i:86011**
Stan, Aurel A Hölder inequality for holomorphic functions. (English summary) **2005f:32002**
Streit, Ludwig *see* **de Faria, Margarida et al., 2005i:60155**
Tesko, V. A. On spaces that arise in the construction of infinite-dimensional analysis according to a biorthogonal scheme. (Ukrainian. English and Ukrainian summaries) **2005h:46068**
Villarroel, Javier Random perturbations of linear solitons of the Kadomtsev-Petviashvili equation. (Russian. Russian summary) **2005b:37175**
von Waldenfels, Wilhelm Continuous kernel processes in quantum probability. (English summary) **2005a:81118**
Wang, Cai Shi *see* **Wang, Xiang Jun[2], 2005i:81080**
Wang, Xiang Jun[2] (*with* Wang, Cai Shi) A characterization of the differentiability of generalized operator-valued functions. (Chinese. English and Chinese summaries) **2005i:81080**
Wellner, Jon A. Gaussian white noise models: some results for monotone functions. (English summary) **2005k:62096**
Wu, Ming-Yih *see* **Lee, Jihoon, 2005i:35219**
Zhang, Xue-Juan Limit cycles and stochastic resonance in a periodically driven Langevin equation subject to white noise. (English summary) **2005c:82071**

Items listed otherwise than by author

Kyoto ★ Non-commutativity, infinite-dimensionality and probability at the crossroads. **2005a:81119**
Non-commutativity, infinite-dimensionality and probability at the crossroads ★ Non-commutativity, infinite-dimensionality and probability at the crossroads. **2005a:81119**

60H99 None of the above, but in this section

Ayoola, E. O. Error estimates for discretized quantum stochastic differential inclusions. (English summary) **2005a:60109**
Fuhrman, Marco (*with* Paganoni, Anna Maria) Linear control systems on unbounded time intervals and invariant measures of Ornstein-Uhlenbeck processes in Hilbert spaces. (English summary) **2005f:60143**
Li, Shi Kai *see* **Zhou, Hua Ren et al., 2005m:60153**
Liu, Chang Yu *see* **Zhou, Hua Ren et al., 2005m:60153**
Paganoni, Anna Maria *see* **Fuhrman, Marco, 2005f:60143**
Stanzhitskiĭ, A. N. Investigation of stochastic oscillatory systems with a toroidal manifold. (Ukrainian. English and Ukrainian summaries) **2005k:60222**
Xu, Gui Ling *see* **Zhou, Hua Ren et al., 2005m:60153**
Zhou, Hua Ren (*with* Li, Shi Kai; Liu, Chang Yu; Xu, Gui Ling) Two completeness theorems of set-valued stochastic analysis. (Chinese. English and Chinese summaries) **2005m:60153**

Items with secondary classifications in 60H99

Ahmed, N. U. Impulsive stochastic evolution inclusions with multi valued diffusion. (English summary) (*see* **2005d:00012**)
Anan'ev, B. I. Approaches to the filtering problem for stochastic multistage inclusions. (English summary) (*see* **2005g:00019**)
Ayoola, E. O. (*with* Gbolagade, A. W.) Further results on the existence, uniqueness and stability of strong solutions of quantum stochastic differential equations. (English summary) **2005m:81179**
Balasubramaniam, P. (*with* Ntouyas, Sotiris K.; Vinayagam, D.) Existence of solutions of nonlinear stochastic differential inclusions in a Hilbert space. (English summary)
— (*with* Ntouyas, Sotiris K.; Vinayagam, D.) Existence of solutions of semilinear stochastic delay evolution inclusions in a Hilbert space. (English summary) **2005k:34235**
— (*with* Vinayagam, D.) Existence of solutions of nonlinear neutral stochastic differential inclusions in a Hilbert space. (English summary) **2005j:34110**
Bernardin, Frédéric (*with* Schatzman, Michelle; Lamarque, Claude-Henri) Second-order multivalued stochastic differential equations on Riemannian manifolds. (English summary) **2005g:58063**
Chang, Joo Sup Analytic Yeh-Feynman integral and generalized conditional Yeh-Wiener integral. (English summary) **2005k:28028**
Farahmand, K. (*with* Nezakati, A.) Algebraic polynomials with non-identical random coefficients. (English summary) **2005h:60154**
Gbolagade, A. W. *see* **Ayoola, E. O., 2005m:81179**

Hara, Keisuke Finite dimensional determinants as characteristic functions of quadratic Wiener functionals. (English summary) **2005b:60038**
Janglajew, Klara Moment equations for stochastic difference equations. (English summary) **2005f:39020**
Kim, Bong Jin An integral equation for the operator valued function space integral. (English summary) **2005a:28026**
Lamarque, Claude-Henri *see* **Bernardin, Frédéric et al., 2005g:58063**
Nagi, Jasbir (*with* Rasmussen, Jørgen) On stochastic evolutions and superconformal field theory. (English summary) **2005m:81278**
Nezakati, A. *see* **Farahmand, K., 2005h:60154**
Ntouyas, Sotiris K. *see* **Balasubramaniam, P. et al., 2005k:34235**
Rasmussen, Jørgen Stochastic evolutions in superspace and superconformal field theory. (English summary) **2005k:81286**
— *see also* **Nagi, Jasbir, 2005m:81278**
Schatzman, Michelle *see* **Bernardin, Frédéric et al., 2005g:58063**
Vinayagam, D. *see* **Balasubramaniam, P. et al., 2005j:34110** *and* **2005k:34235**
Žitković, Gordan Utility maximization with a stochastic clock and an unbounded random endowment. (English summary) **2005h:91128**

60Jxx Markov processes

Items with secondary classifications in 60Jxx

Gikhman, Iosif I. (*with* Skorokhod, Anatolii V.) ★ The theory of stochastic processes. II. **2005a:60003**
(Kotz, Samuel) *see* **Gikhman, Iosif I., 2005a:60003**
(Kunita, Hiroshi) *see* **Stochastic analysis and related topics in Kyoto, 2005c:60003**
Skorokhod, Anatolii V. *see* **Gikhman, Iosif I., 2005a:60003**
(Takahashi, Yoichiro) *see* **Stochastic analysis and related topics in Kyoto, 2005c:60003**
(Watanabe, Shinzo) *see* **Stochastic analysis and related topics in Kyoto, 2005c:60003**
Ycart, Bernard ★ Modèles et algorithmes markoviens. (French) [Markov models and algorithms] **2005i:60003**

Items listed otherwise than by author

Kyoto ★ Stochastic analysis and related topics in Kyoto. **2005c:60003**
Stochastic analysis and related topics in Kyoto ★ Stochastic analysis and related topics in Kyoto. **2005c:60003**

60J05 Markov processes with discrete parameter

Alsmeyer, Gerold On the existence of moments of stopped sums in Markov renewal theory. (English summary) **2005h:60205**
Athreya, Krishna B. (*with* Stenflo, Örjan) Perfect sampling for Doeblin chains. (English summary) **2005d:60105**
Attali, Jean-Gabriel Ergodicity of a certain class of non Feller models: applications to ARCH and Markov switching models. (English summary) **2005g:60110**
Barlow, Martin T. Which values of the volume growth and escape time exponent are possible for a graph? (English summary) **2005f:60144**
Bhattacharya, Rabi (*with* Majumdar, Mukul) Stability in distribution of randomly perturbed quadratic maps as Markov processes. (English summary) **2005h:60206**
Carlsson, Niclas Applications of a generalized metric in the analysis of iterated function systems. (English summary) **2005h:60207**
Chan, Wai Sum *see* **Lin, Zheng Yan et al., 2005m:60157**
Chen, Pei De Independent candidate for Tierney model of H-M algorithms. (English summary) **2005j:60135**
Cheung, Siu Hung *see* **Lin, Zheng Yan et al., 2005m:60157**
Costa, Oswaldo L. V. (*with* Dufour, François) On the ergodic decomposition for a class of Markov chains. (English summary) **2005j:60136**
Del Moral, Pierre (*with* Miclo, Laurent) On convergence of chains with occupational self-interactions. (English summary) **2005m:60154**
Dorea, C. C. Y. (*with* Neto, D. S. B. Martins; Pereira, A. G. C.) Sufficient conditions for ergodicity and convergence of MH, SA, and EM algorithms. (English summary) **2005b:60176**
Dufour, François *see* **Costa, Oswaldo L. V., 2005j:60136**
Falzon, Lucia *see* **Pearce, Charles E. M., (2004m:60008)**
Fīlonov, Yu. P. *see* **Īsakova, T. Ī., 2005h:60209**
Genon-Catalot, Valentine (*with* Kessler, Mathieu) Random scale perturbation of an AR(1) process and its properties as a nonlinear explicit filter. (English summary) **2005g:60111**
Häggström, Olle On the central limit theorem for geometrically ergodic Markov chains. (English summary) **2005m:60155**
Hansen, Niels Richard (*with* Jensen, Anders Tolver) The extremal behaviour over regenerative cycles for Markov additive processes with heavy tails. (English summary) **2005m:60156**
Hennion, Hubert (*with* Hervé, Loïc) Central limit theorems for iterated random Lipschitz mappings. (English summary) **2005h:60208**
Herkenrath, Ulrich A new approach to Markov processes of order 2. (English summary) **2005f:60145**
Hervé, Loïc Théorème local pour chaînes de Markov de probabilité de transition quasi-compacte. Applications aux chaînes V-géométriquement ergodiques et aux modèles itératifs. (English and French summaries) [Local theorem for Markov chains with quasicompact transition probability. Applications to V-geometrically ergodic chains and iterative models] **2005k:60223**
— *see also* **Hennion, Hubert, 2005h:60208**
Hobert, James P. (*with* Robert, Christian P.) A mixture representation of π with applications in Markov chain Monte Carlo and perfect sampling. (English summary) **2005d:60106**
— (*with* Marchev, Dobrin; Schweinsberg, Jason) Stability of the tail Markov chain and the evaluation of improper priors for an exponential rate parameter. (English summary) **2005f:60146**
— *see also* **Marchev, Dobrin, 2005d:60107**
Iosifescu, Marius A simple proof of a basic theorem on iterated random functions. (English summary) **2005b:60177**
Īsakova, T. Ī. (*with* Fīlonov, Yu. P.) Integral conditions for the invertibility of Markov chains on a half-line with a general measure of irreducibility. (Ukrainian. English and Ukrainian summaries) **2005h:60209**
Jarner, Søren F. (*with* Yuen, Wai Kong) Conductance bounds on the L^2 convergence rate of Metropolis algorithms on unbounded state spaces. (English summary) **2005b:60178**
Jensen, Anders Tolver *see* **Hansen, Niels Richard, 2005m:60156**
Jones, Galin L. On the Markov chain central limit theorem. (English summary) **2005j:60137**
Kessler, Mathieu *see* **Genon-Catalot, Valentine, 2005g:60111**
Kontoyiannis, Ioannis (*with* Meyn, S. P.) Large deviations asymptotics and the spectral theory of multiplicatively regular Markov processes. (English summary) **2005k:60224**
Koole, Ger A formula for tail probabilities of Cox distributions. (English summary) **2005e:60154**
Korshunov, D. A. One-dimensional asymptotically homogeneous Markov chains: Cramér transform and large deviation probabilities [Translation of Mat. Tr. 6 (2003), no. 2, 102–143; MR2033649 (2004k:60192)]. (English summary)
Lin, Zheng Yan (*with* Zhang, Li Xin[1]; Cheung, Siu Hung; Chan, Wai Sum) Strong approximation of a Markov chain. (Chinese. English and Chinese summaries) **2005m:60157**
Majumdar, Mukul *see* **Bhattacharya, Rabi, 2005h:60206**
Marchev, Dobrin (*with* Hobert, James P.) Geometric ergodicity of van Dyk and Meng's algorithm for the multivariate Student's t model. (English summary) **2005d:60107**
— *see also* **Hobert, James P. et al., 2005f:60146**
Mathé, Peter Numerical integration using V-uniformly ergodic Markov chains. (English summary) **2005k:60225**
Meyn, S. P. *see* **Kontoyiannis, Ioannis, 2005k:60224**
Miclo, Laurent *see* **Del Moral, Pierre, 2005m:60154**
Neto, D. S. B. Martins *see* **Dorea, C. C. Y. et al., 2005b:60176**
Pearce, Charles E. M. (*with* Falzon, Lucia) Arborescences, matrix-trees and the accumulated sojourn time in a Markov process. (English summary) (*see* **2004m:60008**)
Pereira, A. G. C. *see* **Dorea, C. C. Y. et al., 2005b:60176**
Robert, Christian P. *see* **Hobert, James P., 2005d:60106**
Roberts, Gareth O. (*with* Rosenthal, Jeffrey S.) General state space Markov chains and MCMC algorithms. (English summary) **2005i:60135**
Rosenthal, Jeffrey S. *see* **Roberts, Gareth O., 2005i:60135**
Samur, Jorge D. A regularity condition and a limit theorem for Harris ergodic Markov chains. (English summary) **2005b:60179**
Schweinsberg, Jason *see* **Hobert, James P. et al., 2005f:60146**
Stenflo, Örjan *see* **Athreya, Krishna B., 2005d:60105**
Tchuenche, Jean Michel On the equivalence of Doeblin property. (English summary) **2005b:60180**
Werner, Ivan Contractive Markov systems. (English summary) **2005k:60226**
Wu, Li Ming[1] Essential spectral radius for Markov semigroups. I. Discrete time case. (English summary) **2005a:60110**
Yambartsev, A. A. (*with* Zamyatin, A. A.) A stabilization law for two semi-infinite interacting strings of characters. (English summary) **2005b:60181**
Yuen, Wai Kong *see* **Jarner, Søren F., 2005b:60178**
Zamyatin, A. A. *see* **Yambartsev, A. A., 2005b:60181**
Zhang, Li Xin[1] *see* **Lin, Zheng Yan et al., 2005m:60157**

Items with secondary classifications in 60J05

Abal, G. *see* **Romanelli, A. et al., 2005f:81045**
Aggoun, Lakhdar Partially observed space-time Markov random fields and their applications. (English summary) **2005a:60075**
Al-Awadhi, Fahimah (*with* Hurn, Merrilee; Jennison, Christopher) Improving the acceptance rate of reversible jump MCMC proposals. (English summary) **2005f:65005**
Antunes, Nelson (*with* Nunes, Cláudia; Pacheco, António) Functionals of Markovian branching D-BMAPs. (English summary) **2005m:60203**
Auger, Anne Convergence results for the $(1, \lambda)$-SA-ES using the theory of φ-irreducible Markov chains. (English summary) **2005m:68265**
Auyuanet, A. *see* **Romanelli, A. et al., 2005f:81045**
Ben-Hur, Asa (*with* Roitershtein, Alexander; Siegelmann, Hava T.) On probabilistic analog automata. (English summary) **2005a:68113**
Bertail, Patrice (*with* Clémençon, Stéphan) Edgeworth expansions of suitably normalized sample mean statistics for atomic Markov chains. (English and French summaries) **2005h:62218**
Bhattacharya, Rabi (*with* Majumdar, Mukul) Dynamical systems subject to random shocks: an introduction. **2005f:91094**
— (*with* Majumdar, Mukul) Random dynamical systems: a review. (English summary) **2005e:37112**
Bienvenüe, Alexis (*with* François, Olivier) Global convergence for evolution strategies in spherical problems: some simple proofs and difficulties. (English summary) **2005g:68139**
Borkar, Vivek S. *see* **Rajadhyaksha, Gauresh, 2005g:90163**
van Breugel, Franck (*with* Worrell, James) A behavioural pseudometric for probabilistic transition systems. (English summary) **2005i:68049**
Broomhead, D. S. (*with* Sidorov, Nikita) Mutual information and capacity of a linear digital channel. (English summary) **2005h:94034**
Burton, Robert M. (*with* Dehling, Herold G.; Rösler, Uwe) A law of large numbers for rescaled random difference equations. (English summary) **2005b:60069**
Cartwright, Donald I. (*with* Woess, Wolfgang) Isotropic random walks in a building of type $\tilde{A}_d$. (English summary) **2005d:60011**
Chakvetadze, G. S. On the stochastic stability of quadratic mappings with respect to a parameter. (Russian) **2005c:37063**
Chib, Siddhartha Markov chain Monte Carlo technology. (*see* **2005g:62004**)
Clémençon, Stéphan *see* **Bertail, Patrice, 2005h:62218**
Danos, Vincent (*with* Desharnais, Josée; Panangaden, Prakash) Conditional expectation and the approximation of labelled Markov processes. (English summary) **2005c:68211**
Dehling, Herold G. *see* **Burton, Robert M. et al., 2005b:60069**

Del Moral, Pierre (*with* Doucet, Arnaud) Particle motions in absorbing medium with hard and soft obstacles. (English summary) **2005h:60307**
Desharnais, Josée *see* **Danos, Vincent et al., 2005c:68211**
Doberkat, Ernst-Erich Semi-pullbacks and bisimulations in categories of stochastic relations. (English summary) **2005d:03053**
— The converse of a stochastic relation. (English summary) **2005i:68059**
Donangelo, Raul *see* **Romanelli, A. et al., 2005f:81045**
Dorea, C. C. Y. (*with* Rojas Cruz, J. A.) Approximation results for non-homogeneous Markov chains and some applications. (English summary) **2005m:60158**
Douc, Randal (*with* Moulines, Éric; Rosenthal, Jeffrey S.) Quantitative bounds on convergence of time-inhomogeneous Markov chains. (English summary) **2005i:60146**
Doucet, Arnaud *see* **Del Moral, Pierre, 2005h:60307**
Fernández, Roberto (*with* Maillard, Grégory) Chains with complete connections and one-dimensional Gibbs measures. (English summary) **2005a:60047**
— (*with* Maillard, Grégory) Chains and specifications. (English summary) **2005e:60078**
Fidaleo, Francesco Infinite dimensional entangled Markov chains. (English summary) **2005i:46078**
François, Olivier *see* **Bienvenüe, Alexis, 2005g:68139**
Fuh, Cheng-Der Asymptotic operating characteristics of an optimal change point detection in hidden Markov models. (English summary) **2005h:60123**
Furstenberg, Harry (*with* Weiss, Benjamin) Markov processes and Ramsey theory for trees. (English summary) **2005a:05211**
Glynn, Peter W. *see* **Zeevi, Assaf, 2005e:62130**
Gordin, Mikhail (*with* Holzmann, Hajo) The central limit theorem for stationary Markov chains under invariant splittings. (English summary) **2005d:60037**
Grigoriu, Mircea (*with* Samorodnitsky, Gennady) Stability of the trivial solution for linear stochastic differential equations with Poisson white noise. (English summary) **2005g:60093**
Guo, Ming Le A strong law of large numbers for Markov chains in Markovian environments. (Chinese. English and Chinese summaries) **2005a:60159**
Guo, Shui Xia Some properties of repeated hits after the first explosion of a conservative and nonregular Markov chain in single exit case. (Chinese. English and Chinese summaries) **2005k:60241**
Guo, Xianping (*with* Hernández-Lerma, Onésimo) Zero-sum games for nonhomogeneous Markov chains with an expected average payoff criterion. (English summary) **2005e:91024**
Herkenrath, Ulrich (*with* Iosifescu, Marius; Rudolph, Andreas) Random systems with complete connections and iterated function systems. (English summary) **2005g:60058**
Hernández-Lerma, Onésimo *see* **Guo, Xianping, 2005e:91024**
Holzmann, Hajo *see* **Gordin, Mikhail, 2005d:60037**
Hurn, Merrilee *see* **Al-Awadhi, Fahimah et al., 2005f:65005**
Iosifescu, Marius *see* **Herkenrath, Ulrich et al., 2005g:60058**
Ishii, Daisuke *see* **Shioda, Shigeo, 2005f:60206**
Jennison, Christopher *see* **Al-Awadhi, Fahimah et al., 2005f:65005**
Katori, Makoto (*with* Konno, Norio; Sudbury, Aidan; Tanemura, Hideki) Dualities for the Domany-Kinzel model. (English summary) **2005a:60156**
Kifer, Yuri Averaging in difference equations driven by dynamical systems. (English summary) **2005k:37047**
Klüppelberg, Claudia (*with* Pergamenshchikov, Sergeĭ) Renewal theory for functionals of a Markov chain with compact state space. (English summary) **2005e:60204**
— (*with* Pergamenshchikov, Sergeĭ) The tail of the stationary distribution of a random coefficient AR(q) model. (English summary) **2005d:62144**
Konno, Norio *see* **Katori, Makoto et al., 2005a:60156**
Landim, Claudio Central limit theorem for Markov processes. **2005b:60055**
Lee, Oesook A study on GARCH(p, q) process. (English summary) **2005c:62158**
Lei, Liangzhen (*with* Wu, Li Ming[1]) Large deviations of kernel density estimator in $L^1(\mathbb{R}^d)$ for uniformly ergodic Markov processes. (English summary) **2005k:62102**
Maillard, Grégory *see* **Fernández, Roberto, 2005a:60047** *and* **2005e:60078**
Majumdar, Mukul *see* **Bhattacharya, Rabi, 2005e:37112** *and* **2005f:91094**
Mayer-Wolf, Eddy (*with* Roitershtein, Alexander; Zeitouni, Ofer) Limit theorems for one-dimensional transient random walks in Markov environments. (English and French summaries) **2005g:60165**
Mazzolo, Alain Properties of uniform random walks in bounded convex bodies. (English summary) **2005g:82119**
Miclo, Laurent Notes on the speed of entropic convergence in the central limit theorem. (English summary) **2005h:60070**
Mitov, Kosto V. (*with* Nadarajah, Saralees) Beta distributions in stochastic processes. (*see* **2005j:62007**)
Moulines, Éric *see* **Douc, Randal et al., 2005i:60146**
Myjak, Józef (*with* Szarek, Tomasz) Attractors of iterated function systems and Markov operators [MR1983076 (2004i:37009)]. (*see* **2005d:00015**)
Nadarajah, Saralees *see* **Mitov, Kosto V., (2005j:62007)**
Nishimura, Kazuo (*with* Stachurski, John) Stability of stochastic optimal growth models: a new approach. (English summary) **2005k:91222**
Nunes, Cláudia *see* **Antunes, Nelson et al., 2005m:60203**
Pacheco, António *see* **Antunes, Nelson et al., 2005m:60203**
Panangaden, Prakash *see* **Danos, Vincent et al., 2005c:68211**
Pemantle, Robin (*with* Skyrms, Brian) Time to absorption in discounted reinforcement models. (English summary) **2005g:60135**
Penev, Spiridon (*with* Peng, Hanxiang; Schick, Anton; Wefelmeyer, Wolfgang) Efficient estimators for functionals of Markov chains with parametric marginals. (English summary) **2005a:62121**
Peng, Hanxiang *see* **Penev, Spiridon et al., 2005a:62121**
Pergamenshchikov, Sergeĭ *see* **Klüppelberg, Claudia, 2005d:62144** *and* **2005e:60204**
Rajadhyaksha, Gauresh (*with* Borkar, Vivek S.) Transmission rate control over randomly varying channels. (English summary) **2005g:90163**
Rio, Emmanuel ★ Théorie asymptotique des processus aléatoires faiblement dépendants. (French) [Asymptotic theory of weakly dependent random processes] **2005k:60001**
Roitershtein, Alexander *see* **Ben-Hur, Asa et al., 2005a:68113** *and* **Mayer-Wolf, Eddy et al., 2005g:60165**
Rojas Cruz, J. A. *see* **Dorea, C. C. Y., 2005m:60158**
Romanelli, A. (*with* Sicardi-Schifino, Anibal C.; Siri, R.; Abal, G.; Auyuanet, A.; Donangelo, Raul) Quantum random walk on the line as a Markovian process. (English summary) **2005f:81045**
Rosenthal, Jeffrey S. *see* **Douc, Randal et al., 2005i:60146**
Rösler, Uwe *see* **Burton, Robert M. et al., 2005b:60069**
Rudolph, Andreas *see* **Herkenrath, Ulrich et al., 2005g:60058**
Samorodnitsky, Gennady *see* **Grigoriu, Mircea, 2005g:60093**
Schick, Anton *see* **Penev, Spiridon et al., 2005a:62121**
Schilling, René L. A note on invariant sets. (English summary) **2005h:47086**
Sebe, Gabriela Ileana A Gauss-Kuzmin theorem for the Rosen fractions. (English and French summaries) **2005d:11117**
— A generalization of the Gauss-Kuzmin-Lévy theorem. (English and Romanian summaries) **2005k:11158**
Shioda, Shigeo (*with* Ishii, Daisuke) Monotonicity results for single-server finite-capacity queues with respect to directionally convex order. (English summary) **2005f:60206**
Shirikyan, Armen A version of the law of large numbers and applications. (English summary) **2005j:60063**
Shur, M. G. On the Lin condition in strong ratio limit theorems. (Russian. Russian summary) **2005i:60052**
Sicardi-Schifino, Anibal C. *see* **Romanelli, A. et al., 2005f:81045**
Sidorov, Nikita *see* **Broomhead, D. S., 2005h:94034**
Siegelmann, Hava T. *see* **Ben-Hur, Asa et al., 2005a:68113**
Siri, R. *see* **Romanelli, A. et al., 2005f:81045**
Skyrms, Brian *see* **Pemantle, Robin, 2005g:60135**
Stachurski, John *see* **Nishimura, Kazuo, 2005k:91222**
Sudbury, Aidan *see* **Katori, Makoto et al., 2005a:60156**
Szarek, Tomasz *see* **Myjak, Józef, (2005d:00015)**
Tanemura, Hideki *see* **Katori, Makoto et al., 2005a:60156**
Uchida, Osamu Maximum generating rate of variable-length Markov random sequences. (English summary) **2005a:94041**
Vesilo, R. A. Long-range dependence of Markov renewal processes. (English summary) **2005c:60119**
Wan, Li[1] Random weighting method for density kernel estimates in Markov processes. (Chinese. English and Chinese summaries) **2005a:62108**
Wang, Guo Jing (*with* Zhang, Chun Sheng; Wu, Rong[1]) Ruin theory for the risk process described by PDMPs. (English summary) **2005a:62234**
Wefelmeyer, Wolfgang *see* **Penev, Spiridon et al., 2005a:62121**
Weiss, Benjamin *see* **Furstenberg, Harry, 2005a:05211**
Werner, Ivan Ergodic theorem for contractive Markov systems. (English summary) **2005m:37015**
Woess, Wolfgang *see* **Cartwright, Donald I., 2005d:60011**
Worrell, James *see* **van Breugel, Franck, 2005i:68049**
Wu, Li Ming[1] *see* **Lei, Liangzhen, 2005k:62102**
Wu, Rong[1] *see* **Wang, Guo Jing et al., 2005a:62234**
Yoshihara, Ken-ichi ★ Weakly dependent stochastic sequences and their applications. Vol. XIV. **2005h:60009**
Zaharopol, Radu Attractive probability measures and their supports. (English summary) **2005k:47024**
— ★ Invariant probabilities of Markov-Feller operators and their supports. **2005k:37002**
Zeevi, Assaf (*with* Glynn, Peter W.) Recurrence properties of autoregressive processes with super-heavy-tailed innovations. (English summary) **2005e:62130**
Zeitouni, Ofer *see* **Mayer-Wolf, Eddy et al., 2005g:60165**
Zhang, Chun Sheng *see* **Wang, Guo Jing et al., 2005a:62234**

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Alhakim, Abbas (*with* Molchanov, Stanislav Alekseevich) Some Markov chains on abelian groups with applications. (English summary) **2005i:60136**
— On the eigenvalues and eigenvectors of an overlapping Markov chain. (English summary) **2005b:60182**
Altman, Eitan (*with* Avrachenkov, Konstantin E.; Núñez-Queija, Rudesindo) Perturbation analysis for denumerable Markov chains with application to queueing models. (English summary) **2005h:60210**
Anantharam, Venkat *see* **Gharavi, Reza, 2005i:60138**
Anuradha *see* **Sarkar, Anish et al., 2005f:60150**
Avrachenkov, Konstantin E. (*with* Haviv, Moshe) The first Laurent series coefficients for singularly perturbed stochastic matrices. (English summary) **2005e:60155**
— *see also* **Altman, Eitan et al., 2005h:60210**
Blachère, Sébastien Internal diffusion limited aggregation on discrete groups of polynomial growth. (English summary) **2005h:60211**
Blondia, C. *see* **Van Houdt, B., 2005c:60091**
Bodnariu, Mircea Three-point transition functions and Markov properties. (English summary) **2005h:60212**
Cao, Xian Bing *see* **Deng, Ying Chun, 2005i:60137**
Cercueil, Alain (*with* François, Olivier) Sharp asymptotics for fixation times in stochastic population genetics models at low mutation probabilities. (English summary) **2005g:60112**
Chan, Onn (*with* Lam, T. K.) Lifting Markov chains to random walks on groups. **2005k:60227**
Chen, Hai Yan[2] The random walks on n-dimensional de Bruijn digraphs and graphs. (English and Chinese summaries) **2005d:60108**
Collet, Pierre (*with* López Lorente, F. Javier; Martínez, Servet A.) Order relations of measures when avoiding decreasing sets. (English summary) **2005a:60111**
Deng, Ying Chun (*with* Cao, Xian Bing) Statistics of a class of Markov chains. (English summary) **2005i:60137**
Diaconis, Persi Stein's method for Markov chains: first examples. (English summary) **2005j:60138**
Dikarev, V. A. *see* **Gerasin, S. N., 2005e:60157**

Dorea, C. C. Y. (*with* Rojas Cruz, J. A.) Approximation results for non-homogeneous Markov chains and some applications. (English summary) **2005m:60158**
Douc, Randal (*with* Fort, Gersende; Moulines, Éric; Soulier, Philippe) Practical drift conditions for subgeometric rates of convergence. (English summary) **2005e:60156**
Eisenbaum, Nathalie Isomorphism theorems for Markov chains. (English summary) **2005b:60183**
Eryilmaz, Serkan On the distribution and expectation of success runs in nonhomogeneous Markov dependent trials. (English summary) **2005h:60213**
Fayolle, Guy (*with* de La Fortelle, Arnaud) Entropy and the principle of large deviations for discrete-time Markov chains. (Russian. Russian summary) **2005h:60214**
Fearnhead, Paul Haplotypes: the joint distribution of alleles at linked loci. (English summary) **2005h:60215**
Fischer, Alexander[2] *see* **Meerbach, Eike et al., 2005h:60219**
Fort, Gersende *see* **Douc, Randal et al., 2005e:60156**
Fourneau, J. M. (*with* Lecoz, M.; Quessette, F.) Algorithms for an irreducible and lumpable strong stochastic bound. (English summary) **2005b:60184**
François, Olivier *see* **Cercueil, Alain, 2005g:60112**
Gallegos, María Teresa On block skip free transition matrices and first passage times. (English summary) **2005f:60147**
Gerasin, S. N. (*with* Dikarev, V. A.) Conditions for the convergence to the limit distribution in finite inhomogeneous Markov chains over finite time. (Russian. English summary) **2005e:60157**
Gharavi, Reza (*with* Anantharam, Venkat) An upper bound for the largest Lyapunov exponent of a Markovian product of nonnegative matrices. (English summary) **2005i:60138**
Grassmann, Winfried K. *see* **Luo, Jingxiang, 2005f:60149**
Hambly, Ben M. (*with* Kumagai, Takashi) Heat kernel estimates and law of the iterated logarithm for symmetric random walks on fractal graphs. (English summary) **2005h:60216**
Hamdan, D. An ergodic Markov chain is not determined by any p-marginals. (English summary) **2005b:60185**
Han, Qing[3] The waiting time problems of patterns. (English and Chinese summaries) **2005k:60228**
Haviv, Moshe *see* **Avrachenkov, Konstantin E., 2005e:60155**
He, Qi Ming[1] The classification of matrix $GI/M/1$-type Markov chains with a tree structure and its applications to queueing. (English summary) **2005a:60112**
Heidergott, Bernd A paradigm for derivatives of positive systems. (English summary) **2005h:60217**
— (*with* Hordijk, Arie) Taylor series expansions for stationary Markov chains. (English summary) **2005e:60158**
Hobert, James P. *see* **Jones, Galin L., 2005e:60160**
Hordijk, Arie *see* **Heidergott, Bernd, 2005e:60158**
Hou, Li Ying Ratio limit for transient Markov chains. (Chinese. English and Chinese summaries)
Houdré, Christian (*with* Tetali, Prasad) Isoperimetric invariants for product Markov chains and graph products. (English summary) **2005h:60218**
Hu, Di He The classification and period of states for Markov chain in random environment. (English summary) **2005j:60139**
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Inoue, Kiyoshi[2] Joint distributions associated with patterns, successes and failures in a sequence of multi-state trials. (English summary) **2005e:60159**
Isola, Stefano On the rate of convergence to equilibrium for countable ergodic Markov chains. (English summary) **2005c:60089**
Jerrum, Mark (*with* Son, Jung-Bae; Tetali, Prasad; Vigoda, Eric) Elementary bounds on Poincaré and log-Sobolev constants for decomposable Markov chains. (English summary) **2005i:60139**
Jones, Galin L. (*with* Hobert, James P.) Sufficient burn-in for Gibbs samplers for a hierarchical random effects model. (English summary) **2005e:60160**
Kersting, Götz (*with* Memişoğlu, Kaya) Path decompositions for Markov chains. (English summary) **2005e:60161**
Kirkland, Steve A combinatorial approach to the conditioning of a single entry in the stationary distribution for a Markov chain. (English summary) **2005i:60140**
— Digraph-based conditioning for Markov chains. (English summary) **2005c:60090**
Klokov, S. A. (*with* Veretennikov, A. Yu.) Sub-exponential mixing rate for a class of Markov chains. (English summary) **2005f:60148**
Kulik, Rafał Monotonicity in lag for nonmonotone Markov chains. (English summary) **2005i:60141**
Kumagai, Takashi *see* **Hambly, Ben M., 2005h:60216**
de La Fortelle, Arnaud *see* **Fayolle, Guy, 2005h:60214**
Lam, T. K. *see* **Chan, Onn, 2005k:60227**
Leahu, Alexe Ch. On the space of Markov chain's finite projections. (English summary)
Lecoz, M. *see* **Fourneau, J. M. et al., 2005b:60184**
Ledoux, James Linear dynamics for the state vector of Markov chain functions. (English summary) **2005k:60229**
León, Carlos A. (*with* Perron, François) Optimal Hoeffding bounds for discrete reversible Markov chains. (English summary) **2005d:60109**
Li, Chang-wen Absorption probabilities of Markov chains having a finite complement of irreducible closed sets. (English and Chinese summaries)
Li, Fang[4] *see* **Yang, Wei Guo[1] et al.**
Li, Quan-Lin (*with* Liu, Liming) An algorithmic approach for sensitivity analysis of perturbed quasi-birth-and-death processes. (English summary) **2005g:60113**
Liu, Liming *see* **Li, Quan-Lin, 2005g:60113**
Liu, Wen[1] *see* **Yang, Wei Guo[1], 2005i:60143**
López Lorente, F. Javier *see* **Collet, Pierre et al., 2005a:60111**
Luo, Jingxiang (*with* Grassmann, Winfried K.) Rate-tilting for fast simulation of level/phase processes. (English summary) **2005f:60149**
Lyngsø, Rune B. (*with* Pedersen, Christian N. S.) The consensus string problem and the complexity of comparing hidden Markov models. (English summary) **2005b:60186**
Martínez, Servet A. *see* **Collet, Pierre et al., 2005a:60111**
Meerbach, Eike (*with* Schütte, Christof; Fischer, Alexander[2]) Eigenvalue bounds on restrictions of reversible nearly uncoupled Markov chains. (English summary) **2005h:60219**
Memişoğlu, Kaya *see* **Kersting, Götz, 2005e:60161**
Molchanov, Stanislav Alekseevich *see* **Alhakim, Abbas, 2005i:60136**
Montenegro, Ravi (*with* Son, Jung-Bae) Edge isoperimetry and rapid mixing on matroids and geometric Markov chains. (English summary) (*see* **2005j:68008**)
— Vertex and edge expansion properties for rapid mixing. (English summary) **2005j:60140**
Moulines, Éric *see* **Douc, Randal et al., 2005e:60156**
Neumann, Michael (*with* Xu, Jianhong) Improved bounds for a condition number for Markov chains. (English summary) **2005e:60162**
Núñez-Queija, Rudesindo *see* **Altman, Eitan et al., 2005h:60210**
Palacios, José Luis Foster's formulas via probability and the Kirchhoff index. (English summary) **2005h:60220**
Păun, Udrea New classes of ergodicity coefficients, and applications. (English summary) **2005h:60221**
Pedersen, Christian N. S. *see* **Lyngsø, Rune B., 2005b:60186**
Perron, François *see* **León, Carlos A., 2005d:60109**
Petersen, Ian R. *see* **Xie, Li[1] et al., 2005i:60142**
Pieczynski, Wojciech Fusion de Dempster-Shafer dans les chaînes triplet partiellement de Markov. (English and French summaries) [Dempster-Shafer fusion in triplet partially Markov chains] **2005g:60114**
Quessette, F. *see* **Fourneau, J. M. et al., 2005b:60184**
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Rosenthal, Jeffrey S. *see* **Roberts, Gareth O., 2005h:60222**
Saloff-Coste, Laurent Total variation lower bounds for finite Markov chains: Wilson's lemma. (English summary) **2005h:60223**
Sarkar, Anish (*with* Sen, Kanwar; Anuradha) Waiting time distributions of runs in higher order Markov chains. (English summary) **2005f:60150**
Schütte, Christof *see* **Meerbach, Eike et al., 2005h:60219**
Sen, Kanwar *see* **Sarkar, Anish et al., 2005f:60150**
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Tetali, Prasad *see* **Houdré, Christian, 2005h:60218** *and* **Jerrum, Mark et al., 2005i:60139**
Ugrinovskiĭ, V. A. *see* **Xie, Li[1] et al., 2005i:60142**
Van Houdt, B. (*with* Blondia, C.) Tree structured QBD Markov chains and tree-like QBD processes. (English summary) **2005c:60091**
Veretennikov, A. Yu. *see* **Klokov, S. A., 2005f:60148**
Vigoda, Eric *see* **Jerrum, Mark et al., 2005i:60139**
Volkov, Stanislav Excited random walk on trees. (English summary) **2005a:60113**
Wang, Xiao Sheng *see* **Yang, Wei Guo[1] et al.**
Wilmer, Elizabeth L. A local limit theorem for a family of non-reversible Markov chains. (English summary) **2005a:60114**
Xi, Xiu Zhang An ergodic theorem for coupled Markov chains. (Chinese. English and Chinese summaries)
Xie, Li[1] (*with* Ugrinovskiĭ, V. A.; Petersen, Ian R.) Probabilistic distances between finite-state finite-alphabet hidden Markov models. (English summary) **2005i:60142**
Xu, Jianhong *see* **Neumann, Michael, 2005e:60162**
Yang, Wei Guo[1] (*with* Liu, Wen[1]) Some limit theorems for countable Markov chains indexed by a homogeneous tree. (Chinese. English and Chinese summaries) **2005i:60143**
— (*with* Li, Fang[4]; Wang, Xiao Sheng) Convergence rate of certain nonhomogeneous Markov chains. (Chinese. English and Chinese summaries)
Yin, Gang George *see* **Zhang, Qing[1], 2005b:60187**
Zhang, Qing[1] (*with* Yin, Gang George) Exponential bounds for discrete-time singularly perturbed Markov chains. (English summary) **2005b:60187**
Zhang, Xiao Dong[1] The smallest eigenvalue for reversible Markov chains. (English summary) **2005e:60163**
Zhao, Yu Huai (*with* Huo, Yong Liang) Transfer value and limit distribution of a random particle. (Chinese. English and Chinese summaries)

Items with secondary classifications in 60J10

Abaffy, Jozsef (*with* Bertocchi, Marida; Gnudi, Adriana) Extensions of the Ho and Lee interest-rate model to the multinomial case. (English summary) **2005k:91136**
Abbad, Mohammed (*with* Rahhali, Khalid) Semi-infinite weighted Markov decision processes with perturbation. (English summary) **2005f:90148**
Abbott, Derek *see* **Harmer, Gregory P. et al., 2005h:91053**
Adelman, Omer (*with* Enriquez, Nathanaël) Random walks in random environment: what a single trajectory tells. (English summary) **2005h:60304**
Agapie, Alexandru (*with* Höns, Robin; Mühlenbein, Heinz) Markov chain analysis for one-dimensional asynchronous cellular automata. (English summary) **2005d:60110**
Aguirre-Hernández, R. (*with* Farewell, Vern T.) Appraisal of models for the study of disease progression in psoriatic arthritis. (*see* **2005a:62015**)
Aksoy, Hafzullah Using Markov chains for nonperennial daily streamflow data generation (English summary) **2005f:62164**
Alajaji, Fady *see* **Rached, Ziad et al.**
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Albertson, Donna G. *see* **Fridlyand, Jane et al.**
Al'beverio, S. (*with* Fei, Shao Ming) Integrable lattice systems and Markov processes. (English summary) **2005m:82032**
Alfa, Attahiru Sule Markov chain representations of discrete distributions applied to queueing models. (English summary) **2005c:60092**
— Analysis of a $GI/G^Y/1$ system in discrete-time. (English summary)
Allman, Elizabeth S. (*with* Rhodes, John A.) Quartets and parameter recovery for the general Markov model of sequence mutation.
Alparslan, Denizhan N. *see* **Yazici-Pekergin, Nihal et al.**
Altenberg, Lee Open problems in the spectral analysis of evolutionary dynamics. (English summary) (*see* **2005f:68006**)
Altman, Edward I. *see* **Onorato, Mario, 2005g:91105**

Antyufeev, V. S. (*with* Nikolaev, S. V.) Simulation of proteasomal protein degradation by the Monte Carlo method. (English summary)
Aoki, Satoshi (*with* Takemura, Akimichi) Minimal basis for a connected Markov chain over $3 \times 3 \times K$ contingency tables with fixed two-dimensional marginals. (English summary) **2005e:62090**
Arias-Castro, Ery (*with* Diaconis, Persi; Stanley, Richard P.) A super-class walk on upper-triangular matrices. (English summary) **2005f:60101**
Baier, Christel (*with* Hermanns, Holger; Katoen, Joost-Pieter; Wolf, Verena) Comparative branching-time semantics for Markov chains (extended abstract). (English summary) (*see* **2005b:68010**)
Balakin, S. V. *see* **Savel'ev, L. Ya., 2005k:60037**
Bălcău, Costel Maximum entropy methods for countable Markov chains. (English summary) **2005h:60226**
Bally, Vlad (*with* Pagès, Gilles) A quantization algorithm for solving multi-dimensional discrete-time optimal stopping problems. (English summary) **2005f:60096**
Barker, Richard J. (*with* Burnham, Kenneth P.; White, Gary C.) Encounter history modeling of joint mark-recapture, tag-resighting and tag-recovery data under temporary emigration. (English summary)
Barth, St. *see* **Peinke, J. et al., 2005b:91128**
Bean, James C. *see* **Ohlmann, Jeffrey W. et al., 2005j:90070**
Benaïm, Michel (*with* Schreiber, Sebastian J.; Tarrès, Pierre) Generalized urn models of evolutionary processes. (English summary) **2005f:92017**
Benjamini, Itai (*with* Kesten, Harry; Peres, Yuval; Schramm, Oded) Geometry of the uniform spanning forest: transitions in dimensions 4, 8, 12, ... (English summary) **2005k:60026**
Bertacchi, Daniela (*with* Zucca, Fabio) Classification on the average of random walks. (English summary) **2005b:60117**
Bertocchi, Marida *see* **Abaffy, Jozsef et al., 2005k:91136**
Bini, Dario A. (*with* Meini, Beatrice) Non-skip-free $M/G/1$-type Markov chains and Laurent matrix power series. (English summary) **2005h:60270**
Biro, Dora *see* **Guilford, Tim et al.** *and* **Roberts, Stephen J. et al.**
Bisbas, Antonis A Cassels-Schmidt theorem for non-homogeneous Markov chains. (English summary) **2005i:37011**
Bobkov, Sergei G. (*with* Tetali, Prasad) Modified log-Sobolev inequalities, mixing and hypercontractivity. (English summary) **2005k:60027**
Borgelt, Christian *see* **Gebhardt, J. et al., 2005k:68192**
Borkar, Vivek S. (*with* Ezhov, Vladimir V.; Filar, Jerzy A.) Directed graphs, Hamiltonicity and doubly stochastic matrices. (English summary) **2005h:60018**
Böttcher, Frank *see* **Peinke, J. et al., 2005b:91128**
Boussemart, M. (*with* Limnios, Nikolaos) Markov decision processes with asymptotic average failure rate constraint. (English summary) **2005e:90150**
Boys, Richard J. (*with* Henderson, Daniel A.) A Bayesian approach to DNA sequence segmentation. (English summary)
(van Breugel, Franck) *see* **Rutten, J. J. M. M. et al., 2005d:68004**
Brofferio, Sara Speed of stochastic locally contractive systems. (English summary) **2005a:62193**
Brown, Kenneth S. Semigroup and ring theoretical methods in probability. **2005b:60118**
Burnham, Kenneth P. *see* **Barker, Richard J. et al.**
Caballero, M. E. (*with* Rivero, Víctor; Uribe Bravo, G.; Velarde, Carlos) ★ Cadenas de Markov. (Spanish) [Markov chains] **2005i:60001**
Cabral Morais, Manuel (*with* Pacheco, António) A note on the ageing character of the run length of Markov-type quality-control schemes. **2005k:60230**
Cai, Jun (*with* Dickson, David C. M.) Ruin probabilities with a Markov chain interest model. (English summary) **2005h:91129**
Campanino, Massimo (*with* Petritis, Dimitri) Random walks on randomly oriented lattices. (English summary) **2005b:60119**
Campbell, L. Lorne *see* **Rached, Ziad et al.**
Cao, Jinhua *see* **Li, Quan-Lin, 2005k:60274**
Cao, Xi-Ren The potential structure of sample paths and performance sensitivities of Markov systems. (English summary) **2005i:90091**
— Basic ideas for event-based optimization of Markov systems. (English summary) **2005k:90198**
Casella, George *see* **Robert, Christian P., 2005d:62006**
Cavazos-Cadena, Rolando (*with* Montes-de-Oca, Raúl) Estimation and control in finite Markov decision processes with the average reward criterion. (English summary) **2005d:90132**
— (*with* Hernández-Hernández, Daniel) A characterization of the optimal risk-sensitive average cost in finite controlled Markov chains. (English summary) **2005m:93160**
Chawla, Deepak (*with* Li, Lin[3]; Scott, Stephen D.) On approximating weighted sums with exponentially many terms. (English summary) **2005i:68070**
Chen, Mu-Fa ★ Eigenvalues, inequalities, and ergodic theory. **2005m:60001**
Chen, Wen-bo *see* **Wang, Zhong Zhi[1]**
Cheng, Shi Xue *see* **Zheng, Su Jin, 2005d:60112**
Chernousova, Zh. T. (*with* Dokuchaev, M. A.; Khibina, M. A.; Kirichenko, V. V.; Miroshnichenko, S. G.; Zhuravl'ov, Vīktor M.) Tiled orders over discrete valuation rings, finite Markov chains and partially ordered sets. I. (English summary) **2005c:16024**
Chew, David S. H. (*with* Choi, Kwok Pui; Heidner, Hans; Leung, Ming-Ying) Palindromes in SARS and other coronaviruses. (English summary) **2005g:92026**
Chi, Ying *see* **Goggans, Paul M., (2005c:62004)**
Chien, Steve (*with* Dwork, Cynthia; Kumar, S. Ravi; Simon, Daniel R.; Sivakumar, Dandapani) Link evolution: analysis and algorithms. (English summary) **2005h:68164**
Ching, Wai Ki (*with* Fung, Eric S.; Ng, Michael K.) Higher-order Markov chain models for categorical data sequences. (English summary) **2005a:62185**
— *see also* **Lu, Lin Zhang et al., 2005e:15002**
Choi, Kwok Pui *see* **Chew, David S. H. et al., 2005g:92026**
Choudhury, Gautam (*with* Paul, Madhuchanda) Analysis of $M/G/1$ queue with an additional service channel: a simple alternative approach. (English summary)
Cocan, Moise On a possible generation modality of random graphs. (English and Romanian summaries) **2005k:60028**
Corcoran, J. N. *see* **Schneider, Ulrike**
Cossette, Hélène (*with* Landriault, David; Marceau, Étienne) Ruin probabilities in the compound Markov binomial model. (English summary) **2005h:60224**
— (*with* Landriault, David; Marceau, Étienne) Exact expressions and upper bound for ruin probabilities in the compound Markov binomial model. (English summary) **2005c:62191**
— (*with* Landriault, David; Marceau, Étienne) Compound binomial risk model in a Markovian environment. (English summary) **2005i:60144**
Costa, Oswaldo L. V. (*with* Dufour, François) On the Poisson equation for piecewise-deterministic Markov processes. (English summary) **2005b:60190**
Coulhon, Thierry (*with* Grigor'yan, Alexander) Pointwise estimates for transition probabilities of random walks on infinite graphs. **2005h:60020**
Dai, Yong Long *see* **Liu, Xiang Dong[2], 2005h:60308** *and* **2005k:60314**
Dayar, Tuğrul *see* **Yazici-Pekergin, Nihal et al.**
Del Moral, Pierre ★ Feynman-Kac formulae. **2005f:60003**
Desharnais, Josée (*with* Gupta, Vineet; Jagadeesan, Radha; Panangaden, Prakash) Weak bisimulation is sound and complete for PCTL*. (English summary) **2005a:68132**
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Du, Yan Jun (*with* Li, Xu Hong; Liu, Jian Ping) A spatially distributed model with age-structured metapopulation dynamics. (Chinese. English and Chinese summaries)
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Dwork, Cynthia *see* **Chien, Steve et al., 2005h:68164**
Dyer, Martin (*with* Jerrum, Mark; Vigoda, Eric) Rapidly mixing Markov chains for dismantleable constraint graphs. (English summary) **2005f:05055**
— (*with* Jerrum, Mark; Vigoda, Eric) Rapidly mixing Markov chains for dismantleable constraint graphs. (English summary) **2005h:05074**
E, Wei-nan (*with* Ren, Weiqing; Vanden-Eijnden, Eric) Energy landscapes and rare events. (English summary) **2005b:60006**
Economou, Antonis The compound Poisson immigration process subject to binomial catastrophes. (English summary) **2005b:60188**
Edeson, Robert O. *see* **Khan, R. Nazim et al.**
Engibaryan, N. B. Factorization of Markov chains. (English summary) **2005a:15011**
Enriquez, Nathanaël *see* **Adelman, Omer, 2005h:60304**
Evans, Steven N. Embedding a Markov chain into a random walk on a permutation group. (English summary) **2005e:60014**
Ewens, Warren J. (*with* Grant, Gregory R.) ★ Statistical methods in bioinformatics: an introduction. **2005g:92001**
Ezhov, Vladimir V. (*with* Filar, Jerzy A.; Nguyen, Minh-Tuan) Hamiltonian cycles and singularly perturbed Markov chains. (English summary) **2005d:60111**
— *see also* **Borkar, Vivek S. et al., 2005h:60018**
Fang, Ji-Qian (*with* Li, Caixia) Stochastic processes and their applications in medical science. (English summary) (*see* **2005c:62003**)
Farewell, Vern T. *see* **Aguirre-Hernández, R., (2005a:62015)**
Fearnhead, Paul (*with* Meligkotsidou, Loukia) Exact filtering for partially observed continuous time models. (English summary) **2005d:62152**
Fehrenbach, Johannes (*with* Rüschendorf, Ludger) A Markov chain algorithm for Eulerian orientations of planar triangular graphs. (English summary) **2005g:68189**
— (*with* Rüschendorf, Ludger) Markov chain algorithms for Eulerian orientations and 3-colourings of 2-dimensional Cartesian grids. (English summary) **2005m:60012**
Fei, Shao Ming *see* **Al'beverio, S., 2005m:82032**
Fernández, Roberto (*with* Maillard, Grégory) Chains with complete connections and one-dimensional Gibbs measures. (English summary) **2005a:60047**
— (*with* Maillard, Grégory) Chains and specifications. (English summary) **2005e:60078**
Filar, Jerzy A. *see* **Ezhov, Vladimir V. et al., 2005d:60111** *and* **Borkar, Vivek S. et al., 2005h:60018**
Fill, James Allen (*with* Machida, Motoya) Realizable monotonicity and inverse probability transform. (English summary) (*see* **2005a:62016**)
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Fleming, Wendell H. Some optimal investment, production and consumption models. (English summary) (*see* **2005b:91010**)
Fridlyand, Jane (*with* Snijders, Antoine M.; Pinkel, Dan; Albertson, Donna G.; Jain, Ajay N.) Corrigendum to: "Hidden Markov models approach to the analysis of array CGH data" [J. Multivariate Anal. **90** (2004), no. 1, 132–153; MR2064939].
Fu, James C. (*with* Lou, W. Y. Wendy) ★ Distribution theory of runs and patterns and its applications. **2005e:60003**
Fuh, Cheng-Der Uniform Markov renewal theory and ruin probabilities in Markov random walks. (English summary) **2005e:60202**
— Asymptotic operating characteristics of an optimal change point detection in hidden Markov models. (English summary) **2005h:60123**
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Fung, Eric S. *see* **Ching, Wai Ki et al., 2005a:62185**
Gallego, Guillermo (*with* Hu, Haichao) Optimal policies for production/inventory systems with finite capacity and Markov-modulated demand and supply processes. (English summary) **2005a:90047**
Gao, Fu Qing (*with* Quastel, Jeremy) Exponential decay of entropy in the random transposition and Bernoulli-Laplace models. (English summary) **2005a:60155**
Gao, Jiti (*with* King, Maxwell L.) Adaptive testing in continuous-time diffusion models. (English summary) **2005i:62120**
Gebhardt, J. (*with* Borgelt, Christian; Kruse, Rudolf; Detmer, H.) Knowledge revision in Markov networks. (English summary) **2005k:68192**
Giovagnoli, Alessandra Asymptotic properties of biased coin designs for treatment allocation. (English summary) (*see* **2005f:62009**)
(Gnedenko, Boris Vladimirovich) *see* **Veretennikov, A. Yu., 2005i:60040**
Gnudi, Adriana *see* **Abaffy, Jozsef et al., 2005k:91136**
Goggans, Paul M. (*with* Chi, Ying) Using thermodynamic integration to calculate the posterior probability in Bayesian model selection problems. (English summary) (*see* **2005c:62004**)

Goldstein, Pavle (*with* Karaga, Maja; Kosor, Mate; Nižetić, Ivana; Tadić, Marija; Vlah, Domagoj) Hidden Markov models and multiple alignments of protein sequences. (English summary) (*see* **2005j:65004**)
Gosavi, Abhijit Reinforcement learning for long-run average cost. (English summary) **2005a:62027**
Gourgand, Michel (*with* Grangeon, Nathalie; Norre, Sylvie) Markovian analysis for performance evaluation and scheduling in m machine stochastic flow-shop with buffers of any capacity. (English summary)
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Guilford, Tim (*with* Roberts, Stephen J.; Biro, Dora; Rezek, Iead) Positional entropy during pigeon homing. II. Navigational interpretation of Bayesian latent state models. (English summary)
— *see also* **Roberts, Stephen J. et al.**
Gupta, Vineet *see* **Desharnais, Josée et al., 2005a:68132**
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He, Qi Ming[1] Workload process, waiting times, and sojourn times in a discrete time $MMAP[K]/SM[K]/1/FCFS$ queue. (English summary) **2005f:60199**
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Hu, Di He From $(p-m)$ chains to Markov chains in random environments. (Chinese. English and Chinese summaries) **2005e:60237**
— (*with* Yang, Guang Yu; Li, Yong Kui) Random harmonic functions of some stochastic transition matrices. (Chinese. English and Chinese summaries) **2005m:60170**
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Jones, Michael A. Win, lose, or draw: a Markov chain analysis of overtime in the National Football League.
Kacprzyk, Janusz Fuzzy dynamic programming with stochastic systems under various aggregation operators: solvability and perceived meaning. (*see* **2005i:62007**)
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Nagarajan, D. *see* **Senthamarai Kannan, K. et al.**
Nazarov, A. A. (*with* Shokhor, S. L.) Ergodicity of Markov chains with band graphs and their application to problems of the analysis of conditions for the existence of stationary regimes in dynamic random multiple access communication networks. (Russian. Russian summary) **2005g:94003**
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— *see also* **Guilford, Tim et al.**
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Uribe Bravo, G. *see* **Caballero, M. E. et al.**, **2005i:60001**
Usatenko, O. V. (*with* Yampol'skii, V. A.; Kechedzhy, K. E.; Mel'nyk, S. S.) Symbolic stochastic dynamical systems viewed as binary N-step Markov chains. (English summary) **2005a:82086**
Vachkovskaia, Marina *see* **Menshikov, M. V. et al.**, **2005h:60310**
Vanden-Eijnden, Eric *see* **E, Wei-nan et al.**, **2005b:60006**
Velarde, Carlos *see* **Caballero, M. E. et al.**, **2005i:60001**
Velenik, Yvan *see* **Griniy, O. O.**, **2005i:82028**
Veretennikov, A. Yu. An essay on the theme of a theorem of Boris Vladimirovich Gnedenko. (Russian. Russian summary) **2005i:60040**
Vigoda, Eric *see* **Dyer, Martin et al.**, **2005f:05055** *and* **2005h:05074**
Vlah, Domagoj *see* **Goldstein, Pavle et al.**, (**2005j:65004**)
Volkmer, Hans *see* **Key, Eric S.**
Wakolbinger, Anton *see* **Metzler, Dirk et al.**, (**2005i:00006**)
Wallace, James *see* **Tsoularis, A.**, **2005m:92046**

Wan, Cheng Gao A strong law of large numbers for Markov chains in Markovian environments. (Chinese. English and Chinese summaries) **2005f:60220**
Wang, Chun Ling[2] (*with* Li, Bing[1]) A maximum likelihood estimation for two-state Markov-modulated Poisson processes. (Chinese. English and Chinese summaries) **2005b:62176**
Wang, Zhe[2] *see* **Wu, Xiaolin[1] et al., 2005f:94074**
Wang, Zhong Zhi[1] (*with* Yang, Wei Guo[1]) Some strong limit theorems for both nonhomogenous Markov chains of order two and their random transforms. (Chinese. English and Chinese summaries) **2005i:60055**
— (*with* Chen, Wen-bo) The comparison between an arbitrary information source and Markov chains and its limit properties. (English and Chinese summaries)
White, Gary C. *see* **Barker, Richard J. et al.**
White, Langford B. A new policy evaluation algorithm for Markov decision processes with quasi birth-death structure. (English summary)
Wolf, Verena *see* **Baier, Christel et al., (2005b:68010)**
Woodroofe, Michael *see* **Wu, Wei Biao, 2005c:60037**
Wu, Wei Biao (*with* Woodroofe, Michael) Martingale approximations for sums of stationary processes. (English summary) **2005c:60037**
— (*with* Shao, Xiaofeng) Limit theorems for iterated random functions. (English summary) **2005b:60060**
Wu, Xiaolin[1] (*with* Dumitrescu, Sorina; Wang, Zhe[2]) Monotonicity-based fast algorithms for MAP estimation of Markov sequences over noisy channels. (English summary) **2005f:94074**
Xu, Jianhong *see* **Neumann, Michael, 2005e:60164**
Yampol'skii, V. A. *see* **Usatenko, O. V. et al., 2005a:82086**
Yang, Guang Yu *see* **Hu, Di He et al., 2005m:60170**
Yang, Wei Guo[1] *see* **Liu, Wen[1], 2005i:60051** *and* **Wang, Zhong Zhi[1], 2005i:60055**
Yao, Haishen (*with* Knessl, Charles) On the infinite server shortest queue problem: symmetric case. (English summary)
Yao, Yi-Ching *see* **Simons, Gordon et al.**
Yazici-Pekergin, Nihal (*with* Dayar, Tuğrul; Alparslan, Denizhan N.) Componentwise bounds for nearly completely decomposable Markov chains using stochastic comparison and reordering. (English summary)
Yeo, Geoffrey F. *see* **Khan, R. Nazim et al.**
Yin, Gang George (*with* Zhang, Qing[1]) Stochastic approximation methods for some finance problems. (English summary) (*see* **2005b:91010**)
— (*with* Krishnamurthy, Vikram; Ion, Cristina) Regime switching stochastic approximation algorithms with application to adaptive discrete stochastic optimization. (English summary) **2005m:62148**
Yuen, Wai Kong *see* **Jarner, Søren F., 2005b:60178**
Zhang, Chu Yu *see* **Shi, Feng[1] et al.**
Zhang, Qing[1] *see* **Yin, Gang George, (2005b:91010)**
Zheng, Su Jin (*with* Cheng, Shi Xue) Modeling and equilibrium analysis of no claim discount systems. (Chinese. English and Chinese summaries) **2005d:60112**
Zhuravl'ov, Viktor M. *see* **Chernousova, Zh. T. et al., 2005c:16024**
Zucca, Fabio *see* **Bertacchi, Daniela, 2005b:60117**

Items listed otherwise than by author

Mathematical techniques for analyzing concurrent and probabilistic systems *see* **Rutten, J. J. M. M. et al., 2005d:68004**

60J20 Applications of discrete Markov processes (social mobility, learning theory, industrial processes, etc.) [see also 90B30, 91D10, 91D35, 91E40]

Agapie, Alexandru (*with* Höns, Robin; Mühlenbein, Heinz) Markov chain analysis for one-dimensional asynchronous cellular automata. (English summary) **2005d:60110**
Albassam, Mohammad S. *see* **Rao, Calyampudi Radhakrishna et al., 2005a:60116**
Albertson, Donna G. *see* **Fridlyand, Jane et al.**
Alfa, Attahiru Sule Markov chain representations of discrete distributions applied to queueing models. (English summary) **2005c:60092**
Allman, Elizabeth S. (*with* Rhodes, John A.) Quartets and parameter recovery for the general Markov model of sequence mutation.
Alparslan, Denizhan N. *see* **Yazici-Pekergin, Nihal et al.**
Cabral Morais, Manuel (*with* Pacheco, António) A note on the ageing character of the run length of Markov-type quality-control schemes. **2005k:60230**
Cheng, Shi Xue *see* **Zheng, Su Jin, 2005d:60112**
Chi, Ying *see* **Goggans, Paul M., (2005c:62004)**
Cossette, Hélène (*with* Landriault, David; Marceau, Étienne) Ruin probabilities in the compound Markov binomial model. (English summary) **2005h:60224**
— (*with* Landriault, David; Marceau, Étienne) Compound binomial risk model in a Markovian environment. (English summary) **2005i:60144**
Dayar, Tuğrul *see* **Yazici-Pekergin, Nihal et al.**
Du, Shi Ping (*with* Li, Hai) Second-order hidden Markov models and their application to computational linguistics. (Chinese. English and Chinese summaries) **2005a:60115**
Ezhov, Vladimir V. (*with* Filar, Jerzy A.; Nguyen, Minh-Tuan) Hamiltonian cycles and singularly perturbed Markov chains. (English summary) **2005d:60111**
Fang, Ji-Qian (*with* Li, Caixia) Stochastic processes and their applications in medical science. (English summary) (*see* **2005c:62003**)
Filar, Jerzy A. *see* **Ezhov, Vladimir V. et al., 2005d:60111**
Fridlyand, Jane (*with* Snijders, Antoine M.; Pinkel, Dan; Albertson, Donna G.; Jain, Ajay N.) Corrigendum to: "Hidden Markov models approach to the analysis of array CGH data" [J. Multivariate Anal. **90** (2004), no. 1, 132–153; MR2064939].
Gibbs, Alison L. Convergence in the Wasserstein metric for Markov chain Monte Carlo algorithms with applications to image restoration. (English summary) **2005k:60231**
Goggans, Paul M. (*with* Chi, Ying) Using thermodynamic integration to calculate the posterior probability in Bayesian model selection problems. (English summary) (*see* **2005c:62004**)
Guerreiro, Gracinda Rita (*with* Mexia, João Tiago) An alternative approach to bonus malus. (English summary) **2005h:60225**
Höns, Robin *see* **Agapie, Alexandru et al., 2005d:60110**
Hunt, F. Y. Sample path optimality for a Markov optimization problem. (English summary) **2005m:60159**
Jain, Ajay N. *see* **Fridlyand, Jane et al.**
Jones, Michael A. Win, lose, or draw: a Markov chain analysis of overtime in the National Football League.
Kulkarni, Leena (*with* Rajarshi, M. B.) An application of Markov chain to phonetic classes from Marathi. (English summary)
Landriault, David *see* **Cossette, Hélène et al., 2005h:60224** *and* **2005i:60144**
Li, Caixia *see* **Fang, Ji-Qian, (2005c:62003)**
Li, Hai *see* **Du, Shi Ping, 2005a:60115**
Marceau, Étienne *see* **Cossette, Hélène et al., 2005h:60224** *and* **2005i:60144**
Mateev, Plamen S. A model of communication system via random walk over simplex. (English summary) **2005i:60145**
Mexia, João Tiago *see* **Guerreiro, Gracinda Rita, 2005h:60225**
Mitzenmacher, Michael (*with* Oliveira, Roberto Imbuzeiro; Spencer, Joel H.) A scaling result for explosive processes. (English summary) **2005c:60093**
Morton, Glenn *see* **Simons, Gordon et al.**
Mühlenbein, Heinz *see* **Agapie, Alexandru et al., 2005d:60110**
Nagarajan, D. *see* **Senthamarai Kannan, K. et al.**
Nguyen, Minh-Tuan *see* **Ezhov, Vladimir V. et al., 2005d:60111**
Oliveira, Roberto Imbuzeiro *see* **Mitzenmacher, Michael et al., 2005c:60093**
Pacheco, António *see* **Cabral Morais, Manuel, 2005k:60230**
Park, Yonil (*with* Spouge, John L.) Searching for multiple words in a Markov sequence. (English summary)
Pinkel, Dan *see* **Fridlyand, Jane et al.**
Rajarshi, M. B. *see* **Kulkarni, Leena**
Rao, Calyampudi Radhakrishna (*with* Albassam, Mohammad S.; Rao, Marepalli Bhaskara; Shanbhag, D. N.) Markov chain approaches to damage models. **2005a:60116**
Rao, Marepalli Bhaskara *see* **Rao, Calyampudi Radhakrishna et al., 2005a:60116**
Rhodes, John A. *see* **Allman, Elizabeth S.**
Senthamarai Kannan, K. (*with* Nagarajan, D.; Tamizh Chelvam, T.) Stochastic model of human gestation period for mature and premature live birth. (English summary)
Shanbhag, D. N. *see* **Rao, Calyampudi Radhakrishna et al., 2005a:60116**
Simons, Gordon (*with* Yao, Yi-Ching; Morton, Glenn) Global Markov models for eukaryote nucleotide data. (English summary)
Snijders, Antoine M. *see* **Fridlyand, Jane et al.**
Spencer, Joel H. *see* **Mitzenmacher, Michael et al., 2005c:60093**
Spouge, John L. *see* **Park, Yonil**
Tamizh Chelvam, T. *see* **Senthamarai Kannan, K. et al.**
White, Langford B. A new policy evaluation algorithm for Markov decision processes with quasi birth-death structure. (English summary)
Yao, Yi-Ching *see* **Simons, Gordon et al.**
Yazici-Pekergin, Nihal (*with* Dayar, Tuğrul; Alparslan, Denizhan N.) Componentwise bounds for nearly completely decomposable Markov chains using stochastic comparison and reordering. (English summary)
Zheng, Su Jin (*with* Cheng, Shi Xue) Modeling and equilibrium analysis of no claim discount systems. (Chinese. English and Chinese summaries) **2005d:60112**

Items with secondary classifications in 60J20

Abaffy, Jozsef (*with* Bertocchi, Marida; Gnudi, Adriana) Extensions of the Ho and Lee interest-rate model to the multinomial case. (English summary) **2005k:91136**
Abbott, Derek *see* **Harmer, Gregory P. et al., 2005h:91053**
Altenberg, Lee Open problems in the spectral analysis of evolutionary dynamics. (English summary) (*see* **2005f:68006**)
Baier, Christel (*with* Hermanns, Holger; Katoen, Joost-Pieter; Wolf, Verena) Comparative branching-time semantics for Markov chains (extended abstract). (English summary) (*see* **2005b:68010**)
Barker, Richard J. (*with* Burnham, Kenneth P.; White, Gary C.) Encounter history modeling of joint mark-recapture, tag-resighting and tag-recovery data under temporary emigration. (English summary)
Bean, James C. *see* **Ohlmann, Jeffrey W. et al., 2005j:90070**
Bertocchi, Marida *see* **Abaffy, Jozsef et al., 2005k:91136**
Bhatnagar, Shalabh *see* **Cao, Xi-Ren et al., 2005k:90197**
Bhattacharya, Rabi (*with* Majumdar, Mukul) Stability in distribution of randomly perturbed quadratic maps as Markov processes. (English summary) **2005h:60206**
Borgelt, Christian *see* **Gebhardt, J. et al., 2005k:68192**
Boys, Richard J. (*with* Henderson, Daniel A.) A Bayesian approach to DNA sequence segmentation. (English summary)
(van Breugel, Franck) *see* **Rutten, J. J. M. M. et al., 2005d:68004**
Burnham, Kenneth P. *see* **Barker, Richard J. et al.**
Burton, Robert M. (*with* Dehling, Herold G.; Rösler, Uwe) A law of large numbers for rescaled random difference equations. (English summary) **2005b:60069**
Cao, Xi-Ren (*with* Ren, Zhiyuan; Bhatnagar, Shalabh; Fu, Michael; Marcus, Steven) A time aggregation approach to Markov decision processes. (English summary) **2005k:90197**
— Basic ideas for event-based optimization of Markov systems. (English summary) **2005k:90198**
Cavazos-Cadena, Rolando (*with* Hernández-Hernández, Daniel) A characterization of the optimal risk-sensitive average cost in finite controlled Markov chains. (English summary) **2005m:93160**
Chan, Wai Sum *see* **Lin, Zheng Yan et al., 2005m:60157**
Chen, Wen-bo *see* **Wang, Zhong Zhi[1]**
Cheung, Siu Hung *see* **Lin, Zheng Yan et al., 2005m:60157**
Chew, David S. H. (*with* Choi, Kwok Pui; Heidner, Hans; Leung, Ming-Ying) Palindromes in SARS and other coronaviruses. (English summary) **2005g:92026**
Chien, Steve (*with* Dwork, Cynthia; Kumar, S. Ravi; Simon, Daniel R.; Sivakumar, Dandapani) Link evolution: analysis and algorithms. (English summary) **2005h:68164**

Choi, Kwok Pui *see* **Chew, David S. H. et al., 2005g:92026**
Choudhury, Gautam (*with* Paul, Madhuchanda) Analysis of $M/G/1$ queue with an additional service channel: a simple alternative approach. (English summary)
Cocan, Moise On a possible generation modality of random graphs. (English and Romanian summaries) **2005k:60028**
Cossette, Hélène (*with* Landriault, David; Marceau, Étienne) Exact expressions and upper bound for ruin probabilities in the compound Markov binomial model. (English summary) **2005c:62191**
Dehling, Herold G. *see* **Burton, Robert M. et al., 2005b:60069**
Detmer, H. *see* **Gebhardt, J. et al., 2005k:68192**
Dumitrescu, Sorina *see* **Wu, Xiaolin[1] et al., 2005f:94074**
Dwork, Cynthia *see* **Chien, Steve et al., 2005h:68164**
Fehrenbach, Johannes (*with* Rüschendorf, Ludger) A Markov chain algorithm for Eulerian orientations of planar triangular graphs. (English summary) **2005g:68189**
Fleißner, Roland *see* **Metzler, Dirk et al., (2005i:00006)**
Fleming, Wendell H. Some optimal investment, production and consumption models. (English summary) (*see* **2005b:91010**)
Fu, Michael *see* **Cao, Xi-Ren et al., 2005k:90197**
Gallego, Guillermo (*with* Hu, Haichao) Optimal policies for production/inventory systems with finite capacity and Markov-modulated demand and supply processes. (English summary) **2005a:90047**
Gallegos, María Teresa On block skip free transition matrices and first passage times. (English summary) **2005f:60147**
Gamarnik, David Stochastic bandwidth packing process: stability conditons via Lyapunov function technique. (English summary) **2005i:60190**
Gao, Jiti (*with* King, Maxwell L.) Adaptive testing in continuous-time diffusion models. (English summary) **2005i:62120**
Gebhardt, J. (*with* Borgelt, Christian; Kruse, Rudolf; Detmer, H.) Knowledge revision in Markov networks. (English summary) **2005k:68192**
Gnudi, Adriana *see* **Abaffy, Jozsef et al., 2005k:91136**
Goldstein, Pavle (*with* Karaga, Maja; Kosor, Mate; Ničetić, Ivana; Tadić, Marija; Vlah, Domagoj) Hidden Markov models and multiple alignments of protein sequences. (English summary) (*see* **2005j:65004**)
Gourgand, Michel (*with* Grangeon, Nathalie; Norre, Sylvie) Markovian analysis for performance evaluation and scheduling in m machine stochastic flow-shop with buffers of any capacity. (English summary)
Granat, Robert A. A method of hidden Markov model optimization for use with geophysical data sets. (English summary) **2005g:86002**
Grangeon, Nathalie *see* **Gourgand, Michel et al.**
von Haeseler, Arndt *see* **Metzler, Dirk et al., (2005i:00006)**
Han, Dong-Guk *see* **Okeya, Katsuyuki, (2005d:94154)**
Harmer, Gregory P. (*with* Abbott, Derek; Parrondo, Juan M. R.) Parrondo's capital and history-dependent games. (English summary) **2005h:91053**
Heidner, Hans *see* **Chew, David S. H. et al., 2005g:92026**
Henderson, Daniel A. *see* **Boys, Richard J.**
Henderson, Shane G. *see* **Ohlmann, Jeffrey W. et al., 2005j:90070**
Hermanns, Holger *see* **Baier, Christel et al., (2005b:68010)**
Hernández-Hernández, Daniel *see* **Cavazos-Cadena, Rolando, 2005m:93160**
Hu, Haichao *see* **Gallego, Guillermo, 2005a:90047**
Hunt, Emma Ramaswami's duality and probabilistic algorithms for determining the rate matrix for a structured $GI/M/1$ Markov chain. (English summary) **2005k:60285**
Ibragimov, A. A. Existence of a value in general Markov games. (Russian. Russian summary) **2005i:91018**
Ishii, Daisuke *see* **Shioda, Shigeo, 2005f:60206**
Istas, Jacques ★ Introduction aux modélisations mathématiques pour les sciences du vivant. (French) [Introduction to mathematical modelling for the life sciences] **2005j:60001**
Jacquet, Philippe (*with* Szpankowski, Wojciech) Markov types and minimax redundancy for Markov sources. (English summary) **2005f:94061**
Karaga, Maja *see* **Goldstein, Pavle et al., (2005j:65004)**
Katoen, Joost-Pieter *see* **Baier, Christel et al., (2005b:68010)**
Kenyon, Richard W. (*with* Sheffield, Scott) Dimers, tilings and trees. (English summary) **2005k:60031**
King, Maxwell L. *see* **Gao, Jiti, 2005i:62120**
Knessl, Charles *see* **Yao, Haishen**
Kosor, Mate *see* **Goldstein, Pavle et al., (2005j:65004)**
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Kumar, S. Ravi *see* **Chien, Steve et al., 2005h:68164**
Kusakatov, Vančo *see* **Markovski, Smile, 2005f:20109**
Kushner, Harold J. Numerical approximations for stochastic differential games: the ergodic case. (English summary) **2005d:91014**
Kwiatkowska, Marta *see* **Rutten, J. J. M. M. et al., 2005d:68004**
Kyriakidis, E. G. Optimal control of a simple immigration-emigration process through total catastrophes. (English summary) **2005a:90176**
Landriault, David *see* **Cossette, Hélène et al., 2005c:62191**
Langville, Amy N. (*with* Stewart, William J.) A Kronecker product approximate preconditioner for SANs. (English summary) **2005k:65068**
Lee, Inkyu Modification of the MAP algorithm for memory savings. (English summary) **2005j:94042**
Leung, Ming-Ying *see* **Chew, David S. H. et al., 2005g:92026**
Lin, Zheng Yan (*with* Zhang, Li Xin[1]; Cheung, Siu Hung; Chan, Wai Sum) Strong approximation of a Markov chain. (Chinese. English and Chinese summaries) **2005m:60157**
MacPhee, I. M. (*with* Rougier, Jonathan; Pollard, G. H.) Server advantage in tennis matches. (English summary) **2005i:91034**
Majumdar, Mukul *see* **Bhattacharya, Rabi, 2005h:60206**
Marceau, Étienne *see* **Cossette, Hélène et al., 2005c:62191**
Marcus, Steven *see* **Cao, Xi-Ren et al., 2005k:90197**
Markovski, Smile (*with* Kusakatov, Vančo) Quasigroup string processing. II. (English and Macedonian summaries) **2005f:20109**
Martin, Donald E. K. Markovian start-up demonstration tests with rejection of units upon observing d failures. (English summary) **2005d:90038**
Metzler, Dirk (*with* Fleißner, Roland; Wakolbinger, Anton; von Haeseler, Arndt) Stochastic insertion-deletion processes and statistical sequence alignment. (English summary) (*see* **2005i:00006**)
Nazarov, A. A. (*with* Shokhor, S. L.) Ergodicity of Markov chains with band graphs and their application to problems of the analysis of conditions for the existence of stationary regimes in dynamic random multiple access communication networks. (Russian. Russian summary) **2005g:94003**
Ničetić, Ivana *see* **Goldstein, Pavle et al., (2005j:65004)**
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Norre, Sylvie *see* **Gourgand, Michel et al.**
Ohlmann, Jeffrey W. (*with* Bean, James C.; Henderson, Shane G.) Convergence in probability of compressed annealing. (English summary) **2005j:90070**
Ohtsubo, Yoshio (*with* Toyonaga, Kenji) Equivalence classes for optimizing risk models in Markov decision processes. (English summary) **2005h:90152**
Okeya, Katsuyuki (*with* Han, Dong-Guk) Side channel attack on Ha-Moon's countermeasure of randomized signed scalar multiplication. (English summary) (*see* **2005d:94154**)
(Panangaden, Prakash) *see* **Rutten, J. J. M. M. et al., 2005d:68004**
Parker, David *see* **Rutten, J. J. M. M. et al., 2005d:68004**
Parrondo, Juan M. R. *see* **Harmer, Gregory P. et al., 2005h:91053**
Paul, Madhuchanda *see* **Choudhury, Gautam**
Pemantle, Robin (*with* Skyrms, Brian) Time to absorption in discounted reinforcement models. (English summary) **2005g:60135**
Pollard, G. H. *see* **MacPhee, I. M. et al., 2005i:91034**
Ponomareva, A. Yu. Generalized minimal forms of stochastic automata with periodically varying structure. (English summary)
Ren, Zhiyuan *see* **Cao, Xi-Ren et al., 2005k:90197**
Rösler, Uwe *see* **Burton, Robert M. et al., 2005b:60069**
Rougier, Jonathan *see* **MacPhee, I. M. et al., 2005i:91034**
Rüschendorf, Ludger *see* **Fehrenbach, Johannes, 2005g:68189**
Rutten, J. J. M. M. (*with* Kwiatkowska, Marta; Norman, Gethin; Parker, David) ★ Mathematical techniques for analyzing concurrent and probabilistic systems. **2005d:68004**
Sgurev, Vassil Characteristic features of Markov flow games with linear constraints. (English and Bulgarian summaries)
Shcherbakov, Vadim Stochastic model of trend dynamics and a density dependent population process with discontinuity. (English summary) **2005a:60119**
Sheffield, Scott *see* **Kenyon, Richard W., 2005k:60031**
Shioda, Shigeo (*with* Ishii, Daisuke) Monotonicity results for single-server finite-capacity queues with respect to directionally convex order. (English summary) **2005f:60206**
Shokhor, S. L. *see* **Nazarov, A. A., 2005g:94003**
Simon, Daniel R. *see* **Chien, Steve et al., 2005h:68164**
Sivakumar, Dandapani *see* **Chien, Steve et al., 2005h:68164**
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Tarrès, Pierre Vertex-reinforced random walk on $\mathbb{Z}$ eventually gets stuck on five points. (English summary) **2005h:60116**
Toyonaga, Kenji *see* **Ohtsubo, Yoshio, 2005h:90152**
Tsoularis, A. (*with* Wallace, James) Reinforcement learning for a stochastic automaton modelling predation in stationary model-mimic environments. (English summary) **2005m:92046**
Vlah, Domagoj *see* **Goldstein, Pavle et al., (2005j:65004)**
Wakolbinger, Anton *see* **Metzler, Dirk et al., (2005i:00006)**
Wallace, James *see* **Tsoularis, A., 2005m:92046**
Wang, Zhe[2] *see* **Wu, Xiaolin[1] et al., 2005f:94074**
Wang, Zhong Zhi[1] (*with* Chen, Wen-bo) The comparison between an arbitrary information source and Markov chains and its limit properties. (English and Chinese summaries)
White, Gary C. *see* **Barker, Richard J. et al.**
Wolf, Verena *see* **Baier, Christel et al., (2005b:68010)**
Wu, Xiaolin[1] (*with* Dumitrescu, Sorina; Wang, Zhe[2]) Monotonicity-based fast algorithms for MAP estimation of Markov sequences over noisy channels. (English summary) **2005f:94074**
Yao, Haishen (*with* Knessl, Charles) On the infinite server shortest queue problem: symmetric case. (English summary)
Zhang, Li Xin[1] *see* **Lin, Zheng Yan et al., 2005m:60157**

Items listed otherwise than by author

Mathematical techniques for analyzing concurrent and probabilistic systems *see* **Rutten, J. J. M. M. et al., 2005d:68004**

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Bălcău, Costel Maximum entropy methods for countable Markov chains. (English summary) **2005h:60226**
Douc, Randal (*with* Moulines, Éric; Rosenthal, Jeffrey S.) Quantitative bounds on convergence of time-inhomogeneous Markov chains. (English summary) **2005i:60146**
Economou, Antonis The compound Poisson immigration process subject to binomial catastrophes. (English summary) **2005b:60188**
He, Charlie (*with* Meini, Beatrice; Rhee, N. H.; Sohraby, K.) A quadratically convergent Bernoulli-like algorithm for solving matrix polynomial equations in Markov chains. (English summary) **2005d:60113**
Huber, Mark Perfect sampling using bounding chains. (English summary) **2005f:60151**
Langville, Amy N. (*with* Stewart, William J.) Testing the nearest Kronecker product preconditioner on Markov chains and stochastic automata networks. (English summary)
Lécot, Christian (*with* Tuffin, Bruno) Comparison of quasi-Monte Carlo-based methods for simulation of Markov chains. (English summary)
Meini, Beatrice *see* **He, Charlie et al., 2005d:60113**

Moulines, Éric *see* **Douc, Randal et al., 2005i:60146**
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Rosenthal, Jeffrey S. *see* **Douc, Randal et al., 2005i:60146**
Sohraby, K. *see* **He, Charlie et al., 2005d:60113**
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Xu, Jianhong *see* **Neumann, Michael, 2005e:60164**

Items with secondary classifications in 60J22

Alfa, Attahiru Sule Analysis of a $GI/G^Y/1$ system in discrete-time. (English summary)
Altman, Eitan (*with* Avrachenkov, Konstantin E.; Núñez-Queija, Rudesindo) Perturbation analysis for denumerable Markov chains with application to queueing models. (English summary) **2005h:60210**
Antunes, Nelson (*with* Nunes, Cláudia; Pacheco, António) Functionals of Markovian branching D-BMAPs. (English summary) **2005m:60203**
Avrachenkov, Konstantin E. *see* **Altman, Eitan et al., 2005h:60210**
Du, Shi Ping (*with* Li, Hai) Second-order hidden Markov models and their application to computational linguistics. (Chinese. English and Chinese summaries) **2005a:60115**
Gao, Fu Qing (*with* Quastel, Jeremy) Exponential decay of entropy in the random transposition and Bernoulli-Laplace models. (English summary) **2005a:60155**
Henderson, Shane G. (*with* Simon, Burt) Adaptive simulation using perfect control variates. (English summary) **2005h:65009**
Hobert, James P. (*with* Robert, Christian P.) A mixture representation of π with applications in Markov chain Monte Carlo and perfect sampling. (English summary) **2005d:60106**
Li, Hai *see* **Du, Shi Ping, 2005a:60115**
Nunes, Cláudia *see* **Antunes, Nelson et al., 2005m:60203**
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Simon, Burt *see* **Henderson, Shane G., 2005h:65009**

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Abdel-Rehim, Entsar A. *see* **Gorenflo, Rudolf, 2005m:60161**
Barndorff-Nielsen, Ole E. (*with* Schmiegel, Jürgen) Spatio-temporal modeling based on Lévy processes, and its applications to turbulence. (Russian. Russian summary) **2005d:60114**
Bârză, Ioana O-processes limited on the right, respectively on the left, determined from the variation intensity. (English summary)
Bean, Nigel G. (*with* O'Reilly, Małgorzata M.; Taylor, Peter G.) Algorithms for return probabilities for stochastic fluid flows. (English summary) **2005i:60147**
Berestycki, Julien Exchangeable fragmentation-coalescence processes and their equilibrium measures. (English summary) **2005k:60232**
Bertoin, Jean The asymptotic behavior of fragmentation processes. (English summary) **2005d:60115**
Betsakos, Dimitrios Polarization, continuous Markov processes, and second order elliptic equations. (English summary) **2005c:60094**
Bhatt, Abhay G. (*with* Karandikar, Rajeeva L.) Martingale problems and path properties of solutions. (English summary) **2005b:60189**
Bryc, Włodzimierz (*with* Wesołowski, Jacek) Conditional moments of q-Meixner processes. (English summary) **2005k:60233**
Choi, Bong Dae (*with* Kim, Bara) Non-ergodicity criteria for denumerable continuous time Markov processes. (English summary) **2005e:60165**
Costa, Oswaldo L. V. (*with* Dufour, François) On the Poisson equation for piecewise-deterministic Markov processes. (English summary) **2005b:60190**
Dufour, François *see* **Costa, Oswaldo L. V., 2005b:60190**
Filipović, Damir[1] Time-inhomogeneous affine processes. (English summary) **2005m:60160**
Frankiewicz, Ewa Pricing of a defaultable coupon bond in an extended Merton's model. (English summary) **2005k:60234**
Fukushima, Masatoshi Function spaces and symmetric Markov processes. (English summary) **2005k:60235**
Garnier, Josselin Scattering, spreading, and localization of an acoustic pulse by a random medium. (English summary) **2005d:60116**
Girardin, Valerie Entropy maximization for Markov and semi-Markov processes. (English summary) **2005a:60117**
Gorenflo, Rudolf (*with* Abdel-Rehim, Entsar A.) From power laws to fractional diffusion: the direct way. (English summary) **2005m:60161**
Haas, Bénédicte Regularity of formation of dust in self-similar fragmentations. (English and French summaries) **2005d:60117**
Huillet, Thierry Energy cascades as branching processes with emphasis on Neveu's approach to Derrida's random energy model. (English summary) **2005k:60236**
Huisinga, Wilhelm (*with* Meyn, S. P.; Schütte, Christof) Phase transitions and metastability in Markovian and molecular systems. (English summary) **2005b:60191**
Huzak, Miljenko (*with* Perman, Mihael; Šikić, Hrvoje; Vondraček, Zoran) Ruin probabilities and decompositions for general perturbed risk processes. (English summary) **2005f:60152**
— (*with* Perman, Mihael; Šikić, Hrvoje; Vondraček, Zoran) Ruin probabilities for competing claim processes. (English summary) **2005k:60237**
Jacob, Niels (*with* Truman, Aubrey) Further classes of pseudo-differential operators applicable to modelling in finance and turbulence. (English summary) (*see* **2005c:60001**)
Kaneko, Hiroshi[2] (*with* Zhao, Xuelei) Stochastic processes on $\mathbb{Q}_p$ induced by maps and recurrence criteria. (English summary) **2005b:60192**
Karandikar, Rajeeva L. *see* **Bhatt, Abhay G., 2005b:60189**
Kim, Bara *see* **Choi, Bong Dae, 2005e:60165**
Kolesnik, A. D. Cyclic planar random evolution with four directions. (English summary) **2005m:60162**
Kolokol'tsov, V. N. On Markov processes with decomposable pseudo-differential generators. (English summary) **2005b:60193**
Kulik, A. M. The optimal coupling property and its applications: limit theorem for non-elliptic diffusions and construction of canonical stochastic flow. (English summary) **2005g:60115**
Landim, Claudio (*with* Quastel, Jeremy; Salmhofer, M.; Yau, Horng-Tzer) Superdiffusivity of asymmetric exclusion process in dimensions one and two. (English summary) **2005a:60118**
Lasserre, Jean-Bernard (*with* Prieto-Rumeau, Tomás) SDP vs. LP relaxations for the moment approach in some performance evaluation problems. (English summary) **2005h:60227**
Last, Günter Ergodicity properties of stress release, repairable system and workload models. (English summary) **2005b:60194**
Li, Shang You (*with* Zhang, Chun Sheng; Wu, Rong[1]) Ruin estimates of diffusion models under constant interest rate. (Chinese. English and Chinese summaries) **2005f:60153**
Lindner, Benjamin Moments of the first passage time under external driving. (English summary) **2005f:60154**
Liu, Guo Xin[1] Piecewise deterministic Markov processes and semi-dynamic systems. (English summary) **2005d:60118**
Mao, Yong Hua Nash inequalities for Markov processes in dimension one [MR1894847 (2002m:60145)]. (Chinese. English and Chinese summaries)
Marckert, Jean-François (*with* Mokkadem, Abdelkader) States spaces of the snake and its tour—convergence of the discrete snake. (English summary) **2005c:60095**
Meerschaert, Mark M. (*with* Xiao, Yimin) Dimension results for sample paths of operator stable Lévy processes. (English summary) **2005k:60238**
Meyn, S. P. *see* **Huisinga, Wilhelm et al., 2005b:60191**
Miermont, Grégory Self-similar fragmentations derived from the stable tree. I. Splitting at heights. (English summary) **2005m:60163**
Mikami, Toshio Monge's problem with a quadratic cost by the zero-noise limit of h-path processes. (English summary) **2005k:60239**
Mokkadem, Abdelkader *see* **Marckert, Jean-François, 2005c:60095**
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Prieto-Rumeau, Tomás *see* **Lasserre, Jean-Bernard, 2005h:60227**
Privault, Nicolas (*with* Zambrini, Jean-Claude) Markovian bridges and reversible diffusion processes with jumps. (English and French summaries) **2005k:60240**
Quastel, Jeremy *see* **Landim, Claudio et al., 2005a:60118**
Repetowicz, Przemysław (*with* Richmond, Peter) Modeling share price evolution as a continuous time random walk (CTRW) with non-independent price changes and waiting times. (English summary)
Richmond, Peter *see* **Repetowicz, Przemysław**
Salmhofer, M. *see* **Landim, Claudio et al., 2005a:60118**
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Stadje, Wolfgang (*with* Zacks, Shelemyahu) Telegraph processes with random velocities (English summary) **2005g:60116**
Stroock, Daniel W. Some comments about Itô's construction procedure. (English summary) **2005h:60228**
Taylor, Peter G. *see* **Bean, Nigel G. et al., 2005i:60147**
Truman, Aubrey *see* **Jacob, Niels, (2005c:60001)**
Vondraček, Zoran *see* **Huzak, Miljenko et al., 2005f:60152** *and* **2005k:60237**
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Wang, Tao[5] *see* **Xu, Ming Yue, 2005j:60141**
Wei, Li[2] *see* **Wu, Rong[1] et al., 2005b:60195**
Wesołowski, Jacek *see* **Bryc, Włodzimierz, 2005k:60233**
Wu, Rong[1] (*with* Wang, Guo Jing; Wei, Li[2]) Joint distributions of some actuarial random vectors containing the time of ruin. (English summary) **2005b:60195**
— *see also* **Li, Shang You et al., 2005f:60153**
Xiao, Yimin *see* **Meerschaert, Mark M., 2005k:60238**
Xu, Ming Yue (*with* Wang, Tao[5]) Time-inhomogeneous para-transition function and related two single-parameter semigroups. (Chinese. English and Chinese summaries) **2005j:60141**
Yan, Litan (*with* Zhu, Bei) A ratio inequality for Bessel processes. (English summary) **2005d:60119**
Yau, Horng-Tzer *see* **Landim, Claudio et al., 2005a:60118**
Zacks, Shelemyahu *see* **Stadje, Wolfgang, 2005g:60116**
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Zhang, Chun Sheng *see* **Li, Shang You et al., 2005f:60153**
Zhao, Xuelei *see* **Kaneko, Hiroshi[2], 2005b:60192**
Zhu, Bei *see* **Yan, Litan, 2005d:60119**

Items with secondary classifications in 60J25

Alabert, Aureli (*with* Marmolejo, Miguel Ángel) Stochastic differential equations with boundary conditions driven by a Poisson noise. (English summary) **2005d:60093**
Al'beverio, S. Theory of Dirichlet forms and applications. (English summary) **2005a:60120**
— (*with* Daletskiĭ, A. Yu.; Kondrat'ev, Yu. G.) Stochastic equations and Dirichlet operators on infinite product manifolds. (English summary) **2005g:60160**
— (*with* Rüdiger, Barbara) Subordination of symmetric quasi-regular Dirichlet forms. (English summary) **2005m:31019**
Anantharaman, Nalini On the zero-temperature or vanishing viscosity limit for certain Markov processes arising from Lagrangian dynamics. (English summary) **2005i:82004**
Angulo, J. M. *see* **Ruiz-Medina, M. D. et al., 2005h:60149**
Anh, V. V. *see* **Ruiz-Medina, M. D. et al., 2005h:60149**
Arlotti, Luisa (*with* Banasiak, Jacek) Strictly substochastic semigroups with application to conservative and shattering solutions to fragmentation equations with mass loss. (English summary) **2005c:47053**

Asselah, Amine (*with* Castell, Fabienne) Existence of quasi-stationary measures for asymmetric attractive particle systems on $\mathbb{Z}^d$. (English summary) **2005b:60249**
— (*with* Dai Pra, Paolo) Hitting times for special patterns in the symmetric exclusion process on $\mathbb{Z}^d$. (English summary) **2005m:60224**
Banasiak, Jacek *see* **Arlotti, Luisa, 2005c:47053**
(Barndorff-Nielsen, Ole E.) *see* **Itô, Kiyosi, 2005e:60002**
Bârză, Ioana O-processes with an enumerable infinite set of states determined from the variation intensity. (English summary)
Bass, Richard F. (*with* Kassmann, Moritz) Harnack inequalities for non-local operators of variable order. (English summary) **2005i:60104**
Becherer, Dirk (*with* Schweizer, Martin) Classical solutions to reaction-diffusion systems for hedging problems with interacting Itô and point processes. (English summary) **2005k:60211**
Berkowitz, Brian *see* **Margolin, G. L., 2005b:82035**
Bertoin, Jean (*with* Gnedin, A. V.) Asymptotic laws for nonconservative self-similar fragmentations. (English summary) **2005k:60123**
— (*with* Le Gall, Jean-François) Stochastic flows associated to coalescent processes. II. Stochastic differential equations. (English and French summaries) **2005m:60067**
Bieniek, Mariusz (*with* Szynal, Dominik) On the fractional record values. (English summary) **2005j:62108**
Blom, Henk A. P. *see* **Everdij, Mariken H. C.**
Boëlle, Pierre-Yves *see* **Temime, Laura et al.**
Branch, William A. (*with* McGough, Bruce) Consistent expectations and misspecification in stochastic non-linear economies. (English summary) **2005k:91210**
Budhiraja, Amarjit (*with* Dupuis, Paul) Large deviations for the empirical measures of reflecting Brownian motion and related constrained processes in $\mathbb{R}_+$. (English summary) **2005c:60030**
Castell, Fabienne *see* **Asselah, Amine, 2005b:60249**
Chen, Li[8] (*with* Filipović, Damir[1]; Poor, H. Vincent) Quadratic term structure models for risk-free and defaultable rates. (English summary) **2005f:91066**
Chernov, Nikolai I. On a slow drift of a massive piston in an ideal gas that remains at mechanical equilibrium. (English summary) **2005k:80002**
Çinlar, E. Conditional Lévy processes. (English summary) **2005d:60077**
Collet, Jean-François A new characterization of Gibbs measures. (English summary) **2005e:82004**
Costa, Oswaldo L. V. *see* **Fragoso, Marcelo D., 2005c:93080**
Dai Pra, Paolo *see* **Asselah, Amine, 2005m:60224**
Daletskiĭ, A. Yu. *see* **Al'beverio, S. et al., 2005g:60160**
Delgado, Rosario (*with* López Lorente, F. Javier; Sanz, Gerardo) Local conditions for the stochastic comparison of particle systems. (English summary) **2005m:60229**
Dupuis, Paul *see* **Budhiraja, Amarjit, 2005c:60030**
Eisenbaum, Nathalie A connection between Gaussian processes and Markov processes. (English summary) **2005m:60071**
Erdoğan, M. Burak (*with* Killip, Rowan; Schlag, Wilhelm) Energy growth in Schrödinger's equation with Markovian forcing. (English summary) **2005g:81078**
Everdij, Mariken H. C. (*with* Blom, Henk A. P.) Piecewise deterministic Markov processes represented by dynamically coloured Petri nets. (English summary)
Filipović, Damir[1] *see* **Chen, Li[8] et al., 2005f:91066**
Fragoso, Marcelo D. (*with* Costa, Oswaldo L. V.) Mean square stabilizability of continuous-time linear systems with partial information on the Markovian jumping parameters. (English summary) **2005c:93080**
Frank, T. D. Complete description of a generalized Ornstein-Uhlenbeck process related to the nonextensive Gaussian entropy. (English summary)
Gapeev, Pavel V. On arbitrage and Markovian short rates in fractional bond markets. (English summary) **2005m:91099**
Girardin, Valerie (*with* Limnios, Nikolaos) On the entropy for semi-Markov processes. (English summary) **2005a:60141**
Gnedin, A. V. *see* **Bertoin, Jean, 2005k:60123**
Gravereaux, Jean-Bernard (*with* Ledoux, James) Poisson approximation for some point processes in reliability. (English summary) **2005f:60112**
Guo, Shui Xia Some properties of repeated hits after the first explosion of a conservative and nonregular Markov chain in single exit case. (Chinese. English and Chinese summaries) **2005k:60241**
He, Ping[2] (*with* Ying, Jiangang) Excursions and Lévy system of boundary process. (English summary) **2005a:60121**
Hino, Masanori Integral representation of linear functionals on vector lattices and its application to BV functions on Wiener space. (English summary) **2005g:31005**
Hmissi, Farida (*with* Hmissi, Mohamed) Bochner subordination and ergodicity. (English summary) **2005f:37012**
Hmissi, Mohamed *see* **Hmissi, Farida, 2005f:37012**
Itô, Kiyosi ★ Stochastic processes. **2005e:60002**
Jefferies, Brian Advances and applications of the Feynman integral. **2005h:28030**
Kadankova, Tatiana V. On the joint distribution of the supremum, infimum, and the value of a semicontinuous process with independent increments. (Ukrainian. Ukrainian summary) **2005h:60138**
Kassmann, Moritz *see* **Bass, Richard F., 2005i:60104**
Kessler, Mathieu (*with* Sørensen, Michael) On time-reversibility and estimating functions for Markov processes. (English summary)
Khoshnevisan, Davar (*with* Xiao, Yimin) Additive Lévy processes: capacity and Hausdorff dimension. (English summary) **2005j:60080**
Killip, Rowan *see* **Erdoğan, M. Burak et al., 2005g:81078**
Kim, Jongwoo (*with* Lee, Eui Yong; Shim, Gyoocheol) A Markovian approach to the forward recurrence time in the renewal process. (English summary) **2005i:60174**
Knight, F. B. (*with* Steichen, J. L.) An interference problem with application to crystal growth. (English summary) **2005h:60248**
Kondrat'ev, Yu. G. (*with* Minlos, Robert; Zhizhina, E. A.) One-particle subspace of the Glauber dynamics generator for continuous particle systems. (English summary) **2005i:82049**
— *see also* **Al'beverio, S. et al., 2005g:60160**
Kontoyiannis, Ioannis (*with* Meyn, S. P.) Large deviations asymptotics and the spectral theory of multiplicatively regular Markov processes. (English summary) **2005k:60224**
Korolyuk, Vladimir S. (*with* Limnios, Nikolaos) Lévy approximation of increment processes with Markov switching. (English summary) **2005h:60101**
Kumagai, Takashi Homogenization on finitely ramified fractals. (English summary) **2005h:60102**
Lachal, Aimé Application de la théorie des excursions à l'intégrale du mouvement brownien. (English and French summaries) [Application of the theory of excursions to the integral of Brownian motion] **2005g:60128**
— Distributions of sojourn time, maximum and minimum for pseudo-processes governed by higher-order heat-type equations. (English summary) **2005j:60082**
Lachowicz, Mirosław General population systems. Macroscopic limit of a class of stochastic semigroups. (English summary) **2005m:35157**
Landim, Claudio Central limit theorem for Markov processes. **2005b:60055**
Ledoux, James *see* **Gravereaux, Jean-Bernard, 2005f:60112**
Lee, Eui Yong *see* **Kim, Jongwoo et al., 2005i:60174**
Le Gall, Jean-François *see* **Bertoin, Jean, 2005m:60067**
Le Jan, Yves (*with* Raimond, Olivier) Sticky flows on the circle and their noises. (English summary) **2005c:60131**
Li, Bo[7] Critieria for regularity of elliptic diffusion processes. (English and Chinese summaries) **2005c:60103**
Li, Zeng Hu (*with* Shiga, Tokuzo; Tomisaki, Matsuyo) A conditional limit theorem for generalized diffusion processes. (English summary) **2005c:60104**
Limnios, Nikolaos *see* **Girardin, Valerie, 2005a:60141** *and* **Korolyuk, Vladimir S., 2005h:60101**
Lin, Zheng Yan (*with* Wang, Wen Sheng[3]) The modulus of non-differentiability of a Brownian motion in l_p. (English summary) **2005i:60071**
López Lorente, F. Javier *see* **Delgado, Rosario et al., 2005m:60229**
Manstavičius, Martynas p-variation of strong Markov processes. (English summary) **2005f:60095**
Margolin, G. L. (*with* Berkowitz, Brian) Continuous time random walks revisited: first passage time and spatial distributions. (English summary) **2005b:82035**
Marmolejo, Miguel Ángel *see* **Alabert, Aureli, 2005d:60093**
McGough, Bruce *see* **Branch, William A., 2005k:91210**
Metafune, Giorgio (*with* Priola, Enrico) Some classes of non-analytic Markov semigroups. (English summary) **2005c:47061**
Meyn, S. P. *see* **Kontoyiannis, Ioannis, 2005k:60224**
Minlos, Robert *see* **Kondrat'ev, Yu. G. et al., 2005i:82049**
Mora Espinosa, Carlos Fernando Dirichlet forms and Markov processes. (Spanish. English and Spanish summaries)
Morato, Laura M. Some new conditions for the existence of singular non-symmetric diffusions. (English summary) **2005k:60255**
Moskal'tsova, N. V. Double-level averaging on a stratified space. (English summary) **2005a:34082**
Nieto-Barajas, Luis E. (*with* Walker, Stephen G.) Bayesian nonparametric survival analysis via Lévy driven Markov processes. (English summary) **2005i:62144**
Ôkura, Hiroyuki Capacitary upper estimates for symmetric Dirichlet forms. (English summary) **2005b:31010**
Paroissin, Christian (*with* Ycart, Bernard) Central limit theorem for hitting times of functionals of Markov jump processes. (English summary) **2005h:60071**
Parthasarathy, Kalyanapuram Rangachari Quantum probability and strong quantum Markov processes. **2005a:81115**
Plucińska, Agnieszka Characterizations of polynomial-Gaussian processes that are Markovian. (English summary) **2005b:60100**
Poor, H. Vincent *see* **Chen, Li[8] et al., 2005f:91066**
Popa, Eugen The Stonean space for a semi-dynamical system. (English summary) **2005d:31009**
Priola, Enrico *see* **Metafune, Giorgio, 2005c:47061**
Raimond, Olivier *see* **Le Jan, Yves, 2005c:60131**
Ramasubramanian, S. Diffusions and the martingale problem of Stroock and Varadhan. **2005a:60126**
Robert, Philippe ★ Réseaux et files d'attente: méthodes probabilistes. (French) [Networks and queues: probabilistic methods] **2005h:60002**
Rüdiger, Barbara *see* **Al'beverio, S., 2005m:31019**
Ruiz-Medina, M. D. (*with* Angulo, J. M.; Anh, V. V.) Fractional random fields on domains with fractal boundary. (English summary) **2005h:60149**
Sakun, V. P. *see* **Shushin, A. I., 2005f:82089**
Sanz, Gerardo *see* **Delgado, Rosario et al., 2005m:60229**
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Schlag, Wilhelm *see* **Erdoğan, M. Burak et al., 2005g:81078**
Schweizer, Martin *see* **Becherer, Dirk, 2005k:60211**
Semenovs'ka, N. V. (*with* Yadrenko, M. Ĭ.) Explicit extrapolation formulas for some correlation models of homogeneous and isotropic random fields. (Ukrainian. Ukrainian summary) **2005k:60160**
Shiga, Tokuzo *see* **Li, Zeng Hu et al., 2005c:60104**
Shim, Gyoocheol *see* **Kim, Jongwoo et al., 2005i:60174**
Shushin, A. I. (*with* Sakun, V. P.) Non-Markovian stochastic Liouville equation. (English summary) **2005f:82089**
Sørensen, Michael *see* **Kessler, Mathieu**
Stannat, Wilhelm On the convergence of genetic algorithms—a variational approach. (English summary) **2005d:35040**
Steichen, J. L. *see* **Knight, F. B., 2005h:60248**
Stojanovic, Srdjan Optimal momentum hedging via hypoelliptic reduced Monge-Ampère PDEs. (English summary) **2005k:93245**
Sturm, Karl-Theodor Harmonic map heat flow generated by Markovian semigroups. **2005c:58066**
Szynal, Dominik *see* **Bieniek, Mariusz, 2005j:62108**
Temime, Laura (*with* Boëlle, Pierre-Yves; Thomas, Guy) Deterministic and stochastic modeling of pneumococcal resistance to penicillin. (English summary)
Thomas, Guy *see* **Temime, Laura et al.**
Tomisaki, Matsuyo *see* **Li, Zeng Hu et al., 2005c:60104**

Tyran-Kamińska, Marta Support overlapping Markov semigroups. (English summary) **2005g:47087**
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Yadrenko, M. Ĭ. *see* **Semenovs'ka, N. V., 2005k:60160**
Yau, Horng-Tzer $(\log t)^{2/3}$ law of the two dimensional asymmetric simple exclusion process. (English summary) **2005d:60156**
Ycart, Bernard *see* **Paroissin, Christian, 2005h:60071**
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Yoshida, Nakahiro Partial mixing and Edgeworth expansion. (English summary) **2005g:62035**
Zähle, Martina Riesz potentials and Besov spaces on fractals. (English summary) **2005k:60247**
Zhang, Fu-xi Coupled diffusion processes.
Zhang, Xue-Juan Mean mobility and rotation number in time-inhomogenous Brownian ratchets.
Zhizhina, E. A. *see* **Kondrat'ev, Yu. G. et al., 2005i:82049**

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Aggoun, Lakhdar On a stochastic capture-recapture predator-prey model. (English summary) **2005h:60229**
Andreev, D. B. (*with* Krylov, E. A.; Zeifman, A. I.) On nonergodicity of some continuous-time Markov chains. **2005f:60155**
Barlow, Martin T. Heat kernels and sets with fractal structure. **2005e:60166**
— (*with* Bass, Richard F.) Stability of parabolic Harnack inequalities. (English summary) **2005e:60167**
Baryshnikov, Yu. M. (*with* Coffman, E. G., Jr.; Jelenković, Predrag R.) Space filling and depletion. **2005h:60230**
Bârză, Ioana O-processes with an enumerable infinite set of states determined from the variation intensity. (English summary)
Bass, Richard F. *see* **Barlow, Martin T., 2005e:60167**
Baxendale, Peter H. Renewal theory and computable convergence rates for geometrically ergodic Markov chains. (English summary) **2005m:60164**
Becker-Kern, Peter (*with* Scheffler, Hans-Peter) On multiple-particle continuous-time random walks. **2005h:60231**
Buchholz, Peter (*with* Dayar, Tuğrul) Comparison of multilevel methods for Kronecker-based Markovian representations. (English summary)
Cairns, Ben (*with* Pollett, P. K.) Extinction times for a general birth, death and catastrophe process. (English summary) **2005m:60165**
Chen, Mu-Fa Ten explicit criteria of one-dimensional processes. (English summary) **2005f:60156**
Coffman, E. G., Jr. *see* **Baryshnikov, Yu. M. et al., 2005h:60230**
Dai, Gui Ping *see* **Li, Yan Jie[1] et al., 2005k:60244**
Dayar, Tuğrul *see* **Buchholz, Peter**
Deng, Ying Chun *see* **Xiang, Xu Yan, 2005h:60234**
Di Crescenzo, Antonio (*with* Nastro, A.) On first-passage-time densities for certain symmetric Markov chains. (English summary) **2005d:60120**
Guillin, Arnaud (*with* Liptser, Robert) MDP for integral functionals of fast and slow processes with averaging. (English summary) **2005m:60166**
Guo, Shui Xia (*with* Yang, Xiang Qun) Distribution of the lifetime of a Q process in single non-conservation state and zero exit case after explosion. (Chinese. English and Chinese summaries) **2005f:60157**
— Some properties of repeated hits after the first explosion of a conservative and nonregular Markov chain in single exit case. (Chinese. English and Chinese summaries) **2005k:60241**
Higham, Desmond J. A matrix perturbation view of the small world phenomenon. (English summary) **2005f:60158**
Horváth, András *see* **Telek, M. et al., 2005b:60197**
Horváth, Gábor *see* **Telek, M. et al., 2005b:60197**
Hou, Zhen Ting *see* **Wu, Qun Ying et al., 2005f:60161**
Jelenković, Predrag R. *see* **Baryshnikov, Yu. M. et al., 2005h:60230**
Kroese, Dirk P. (*with* Scheinhardt, W. R. W.; Taylor, Peter G.) Spectral properties of the tandem Jackson network, seen as a quasi-birth-and-death process. (English summary) **2005k:60242**
Krylov, E. A. *see* **Andreev, D. B. et al., 2005f:60155**
Le Jan, Yves (*with* Lemaire, S.) Products of Beta matrices and sticky flows. (English summary) **2005k:60243**
Lemaire, S. *see* **Le Jan, Yves, 2005k:60243**
Li, Yan Jie[1] (*with* Yin, Bao Qun; Xi, Hong Sheng; Dai, Gui Ping) Sensitivity analysis and performance optimization of a class of continuous time Markov chains. (Chinese. English and Chinese summaries) **2005k:60244**
Liggett, Thomas M. (*with* Rolles, Silke W. W.) An infinite stochastic model of social network formation. (English summary) **2005f:60159**
Liptser, Robert *see* **Guillin, Arnaud, 2005m:60166**
Mao, Yong Hua Ergodic degrees for continuous-time Markov chains. (English summary) **2005e:60168**
Mikhailov, Gennadii A. Probabilistic models, integral equations, and weighted Monte Carlo methods. (Russian. Russian summary) **2005f:60160**
Mitrofanov, A. Yu. The spectral gap and perturbation bounds for reversible continuous-time Markov chains. (English summary) **2005k:60245**
— Reversible Markov chains and spanning trees. (English summary) **2005j:60142**
Miyazawa, Masakiyo Hitting probabilities in a Markov additive process with linear movements and upward jumps: applications to risk and queueing processes. (English summary) **2005b:60196**
Nabli, Hédi Transient and asymptotic analysis of general Markov fluid models. (English summary) **2005e:60169**
Nasroallah, Abdelaziz Monte Carlo simulation of Markov chain steady-state distribution.
Nastro, A. *see* **Di Crescenzo, Antonio, 2005d:60120**
Pollett, P. K. (*with* Zhang, Han Jun) Existence and uniqueness of Q-processes with a given finite μ-invariant measure. (English summary) **2005h:60232**
— *see also* **Cairns, Ben, 2005m:60165**
Rolles, Silke W. W. *see* **Liggett, Thomas M., 2005f:60159**
Scheffler, Hans-Peter *see* **Becker-Kern, Peter, 2005h:60231**
Scheinhardt, W. R. W. *see* **Kroese, Dirk P. et al., 2005k:60242**
Shcherbakov, Vadim Stochastic model of trend dynamics and a density dependent population process with discontinuity. (English summary) **2005a:60119**
Taylor, Peter G. *see* **Kroese, Dirk P. et al., 2005k:60242**
Telek, M. (*with* Horváth, András; Horváth, Gábor) Analysis of inhomogeneous Markov reward models. (English summary) **2005b:60197**
Wu, Qun Ying (*with* Zhang, Han Jun; Hou, Zhen Ting) An extended birth-death Q-matrix with instantaneous state and catastrophes. II. (Chinese. English and Chinese summaries) **2005f:60161**
— μ-invariant measures for Q-processes. (Chinese. English and Chinese summaries) **2005h:60233**
Xi, Hong Sheng *see* **Li, Yan Jie[1] et al., 2005k:60244**
Xiang, Xu Yan (*with* Deng, Ying Chun) Identifying a type of Markov chain via observation of two neighboring states. (Chinese. English and Chinese summaries) **2005h:60234**
Yang, Xiang Qun *see* **Guo, Shui Xia, 2005f:60157**
Yin, Bao Qun *see* **Li, Yan Jie[1] et al., 2005k:60244**
Yin, Gang George (*with* Zhang, Han Qin) Two-time-scale Markov chains and applications to quasi-birth-death queues. (English summary) **2005h:60235**
Zeifman, A. I. *see* **Andreev, D. B. et al., 2005f:60155**
Zhang, Han Jun *see* **Wu, Qun Ying et al., 2005f:60161** *and* **Pollett, P. K., 2005h:60232**
Zhang, Han Qin *see* **Yin, Gang George, 2005h:60235**
Zhang, Yu Hui[2] Moments of the hitting time for single birth processes. (Chinese. English and Chinese summaries) **2005d:60121**

Items with secondary classifications in 60J27

Ahn, Soohan (*with* Ramaswami, V.) Bilateral phase type distributions. (English summary) **2005m:60022**
Al'beverio, S. (*with* Fei, Shao Ming) Integrable lattice systems and Markov processes. (English summary) **2005m:82032**
Altman, Eitan (*with* Avrachenkov, Konstantin E.; Núñez-Queija, Rudesindo) Perturbation analysis for denumerable Markov chains with application to queueing models. (English summary) **2005h:60210**
Anisimov, Vladimir V. Asymptotic analysis of stochastic block replacement policies for multicomponent systems in a Markov environment. (English summary) **2005f:90037**
Avrachenkov, Konstantin E. *see* **Altman, Eitan et al., 2005h:60210**
ben-Avraham, Daniel (*with* Bollt, Erik M.; Tamon, Christino) One-dimensional continuous-time quantum walks. (English summary) **2005g:81178**
Azaron, Amir (*with* Katagiri, Hideki; Sakawa, Masatoshi; Modarres, Mohammad) Reliability function of a class of time-dependent systems with standby redundancy. (English summary) **2005h:90027**
Baier, Christel (*with* Katoen, Joost-Pieter; Hermanns, Holger; Haverkort, Boudewijn) Simulation for continuous-time Markov chains. (English summary) **2005a:68145**
— (*with* Hermanns, Holger; Katoen, Joost-Pieter; Wolf, Verena) Comparative branching-time semantics for Markov chains (extended abstract). (English summary) (*see* **2005b:68010**)
Ball, Frank G. (*with* Milne, Robin K.) Applications of simple point process methods to superpositions of aggregated stationary processes. (English summary) **2005b:60095**
Bedford, Tim (*with* Lindqvist, Bo Henry) The identifiability problem for repairable systems subject to competing risks. (English summary) **2005c:60116**
Bielecki, Tomasz R. (*with* Rutkowski, Marek) Modeling of the defaultable term structure: conditionally Markov approach. (English summary) **2005b:91104**
Bobrowski, A. Quasi-stationary distributions of a pair of Markov chains related to time evolution of a DNA locus. (English summary) **2005b:60198**
Bollt, Erik M. *see* **ben-Avraham, Daniel et al., 2005g:81178**
Booth, Hilary S. (*with* Burden, Conrad J.; Hegland, Markus; Santoso, Lucia) Markov process modelling of gene regulation. (English summary) **2005j:92014**
(van Breugel, Franck) *see* **Rutten, J. J. M. M. et al., 2005d:68004**
Buchholz, Peter (*with* Dayar, Tuğrul) Block SOR preconditioned projection methods for Kronecker structured Markovian representations. (English summary)
Bura, Efstathia *see* **Hall, Peter G., 2005m:62076**
Burden, Conrad J. *see* **Booth, Hilary S. et al., 2005j:92014**
Caputo, Pietro (*with* Martinelli, Fabio) Relaxation time of anisotropic simple exclusion processes and quantum Heisenberg models. (English summary) **2005b:82009**
Carbone, Raffaella Optimal log-Sobolev inequality and hypercontractivity for positive semigroups on $M_2(\mathbb{C})$. (English summary) **2005g:46119**
Chan, Kung Sik *see* **Tsai, Henghsiu, 2005d:15033**
Chen, Anyue (*with* Renshaw, Eric) Markovian bulk-arriving queues with state-dependent control at idle time. (English summary) **2005b:60199**
Chen, Mu-Fa ★ From Markov chains to non-equilibrium particle systems. **2005h:60004**
Coles, Stuart *see* **Sisson, Scott**
Czornik, Adam (*with* Świerniak, Andrzej) On the continuous time-varying JLQG. (English summary) **2005e:49068**
Dayar, Tuğrul *see* **Buchholz, Peter**
De Santis, Emilio (*with* Spizzichino, Fabio) Change-point models and conditionally pure birth processes: an inequality on the stochastic intensity. (English summary) **2005k:60151**
Diaconis, Persi (*with* Mayer-Wolf, Eddy; Zeitouni, Ofer; Zerner, Martin P. W.) The Poisson-Dirichlet law is the unique invariant distribution for uniform split-merge transformations. (English summary) **2005e:60232**
Elliott, Robert J. *see* **Malcolm, W. P. et al., 2005g:62142**
Fei, Shao Ming *see* **Al'beverio, S., 2005m:82032**
Gani, Joseph M. Stochastic compartmental models for diabetes. (English summary) **2005g:92031**
Guo, Jinli *see* **Shi, Ding Hua et al., 2005k:60049**

Guo, Xin (*with* Zhang, Qing[1]) Closed-form solutions for perpetual American put options with regime switching. (English summary) **2005h:91108**
Hall, Peter G. (*with* Bura, Efstathia) Nonparametric methods of inference for finite-state, inhomogeneous Markov processes. (English summary) **2005m:62076**
Haverkort, Boudewijn *see* **Baier, Christel et al., 2005a:68145**
Hawkes, Alan G. Stochastic modelling of single ion channels. (*see* **2005h:92008**)
Hegland, Markus *see* **Booth, Hilary S. et al., 2005j:92014**
Hermanns, Holger *see* **Baier, Christel et al., 2005a:68145** *and* (**2005b:68010**)
Hernández-Lerma, Onésimo *see* **Prieto-Rumeau, Tomás, 2005i:93092**
van der Hoek, John *see* **Malcolm, W. P. et al., 2005g:62142**
Hou, Zhen Ting *see* **Zhang, Han Jun et al., 2005b:60201**
Houdré, Christian (*with* Tetali, Prasad) Isoperimetric invariants for product Markov chains and graph products. (English summary) **2005h:60218**
Hu, Di He *see* **Yi, Xiao Wei, 2005h:60314**
Hu, Qiying (*with* Liu, Jian Yong; Yue, Wuyi) Continuous time Markov decision processes with expected discounted total rewards. (English summary) (*see* **2005c:00015**)
Huber, Mark Perfect sampling using bounding chains. (English summary) **2005f:60151**
Imkeller, Peter (*with* Pavlyukevich, Ilya) Stochastic resonance: a comparative study of two-state models. (English summary) (*see* **2005f:60008**)
Imran, Mudassar (*with* Jones, Don A.; Smith, Hal L.) Biofilms and the plasmid maintenance question. (English summary) **2005i:92019**
Ion, Cristina *see* **Yin, Gang George et al., 2005m:62148**
Jones, Don A. *see* **Imran, Mudassar et al., 2005i:92019**
Kannan, Ravi (*with* Mahoney, Michael W.; Montenegro, Ravi) Rapid mixing of several Markov chains for a hard-core model. (English summary) **2005d:68160**
Katagiri, Hideki *see* **Azaron, Amir et al., 2005h:90027**
Katoen, Joost-Pieter *see* **Baier, Christel et al., 2005a:68145** *and* (**2005b:68010**)
Kholodnyi, Valery A. Valuation and hedging of European contingent claims on power with spikes: a non-Markovian approach. (English summary) **2005e:91082**
Kingman, J. F. C. Powers and products of regenerative phenomena. (English summary) **2005f:60187**
— Extremal problems for regenerative phenomena. (English summary) **2005g:60134**
Korolyuk, Vladimir S. (*with* Limnios, Nikolaos) Compound Poisson approximation with drift for stochastic additive functionals with Markov and semi-Markov switching. (English summary) (*see* **2005f:60007**)
Krinik, Alan (*with* Mortensen, Carrie; Rubino, Gerardo) Connections between birth-death processes. **2005d:60137**
Krishnamurthy, Vikram *see* **Yin, Gang George et al., 2005m:62148**
Kumagai, Takashi Heat kernel estimates and parabolic Harnack inequalities on graphs and resistance forms. (English summary) **2005g:60122**
Kwiatkowska, Marta *see* **Rutten, J. J. M. M. et al., 2005d:68004**
de La Fortelle, Arnaud The large-deviation principle for Markov chains with continuous time. (Russian. Russian summary) **2005h:60078**
Ledoux, James On the asymptotic analysis of Littlewood's reliability model for modular software. (English summary) **2005f:60113**
Li, Bing[1] *see* **Wang, Chun Ling[2], 2005b:62176**
Limnios, Nikolaos *see* **Korolyuk, Vladimir S., (2005f:60007)**
Lin, Xiang *see* **Zhang, Han Jun et al., 2005b:60201**
Lindqvist, Bo Henry *see* **Bedford, Tim, 2005c:60116**
Liu, Jian Yong *see* **Hu, Qiying et al., (2005c:00015)**
Liu, Liming *see* **Shi, Ding Hua et al., 2005k:60049**
Liu, Yuan-jin *see* **Yin, Gang George et al., 2005e:93158**
Macdonald, Angus S. (*with* Waters, Howard R.; Wekwete, Chessman T.) A model for coronary heart disease and stroke with applications to critical illness insurance underwriting. I. The model. (English summary)
— (*with* Waters, Howard R.; Wekwete, Chessman T.) A model for coronary heart disease and stroke with applications to critical illness insurance underwriting. II. Applications. (English summary)
Mahoney, Michael W. *see* **Kannan, Ravi et al., 2005d:68160**
Malcolm, W. P. (*with* Elliott, Robert J.; van der Hoek, John) A deterministic discretisation-step upper bound for state estimation via Clark transformations. **2005g:62142**
Martinelli, Fabio *see* **Caputo, Pietro, 2005b:82009**
Mayer-Wolf, Eddy *see* **Diaconis, Persi et al., 2005e:60232**
McDonald, David R. ★ Elements of applied probability for engineering, mathematics and systems science. **2005f:60002**
Mei, Qixiang *see* **Zhang, Han Jun et al., 2005b:60201**
Miermont, Grégory (*with* Schweinsberg, Jason) Self-similar fragmentations and stable subordinators. (English summary) **2005e:60086**
Milne, Robin K. *see* **Ball, Frank G., 2005b:60095**
Mitrofanov, A. Yu. Note on Zeifman's bounds on the rate of convergence for birth-death processes. (English summary) **2005g:60133**
Modarres, Mohammad *see* **Azaron, Amir et al., 2005h:90027**
Montenegro, Ravi *see* **Kannan, Ravi et al., 2005d:68160**
Mortensen, Carrie *see* **Krinik, Alan et al., 2005d:60137**
Nabli, Hédi Performability: asymptotic distribution and moment computation. (English summary) **2005c:68020**
Ngwa, G. A. Modelling the dynamics of endemic malaria in growing populations. (English summary) **2005d:92023**
Niţă, Alina On the cumulative reward moments in some semi-Markov processes. (English and Romanian summaries) **2005a:60143**
Norman, Gethin *see* **Rutten, J. J. M. M. et al., 2005d:68004**
Núñez-Queija, Rudesindo *see* **Altman, Eitan et al., 2005h:60210**
(Panangaden, Prakash) *see* **Rutten, J. J. M. M. et al., 2005d:68004**
Parker, David *see* **Rutten, J. J. M. M. et al., 2005d:68004**
Pavlyukevich, Ilya *see* **Imkeller, Peter, (2005f:60008)**
Prieto-Rumeau, Tomás (*with* Hernández-Lerma, Onésimo) The Laurent series, sensitive discount and Blackwell optimality for continuous-time controlled Markov chains. (English summary) **2005i:93092**
Rabehasaina, Landy (*with* Sericola, Bruno) A second-order Markov-modulated fluid queue with linear service rate. (English summary) **2005m:60213**
Ramaswami, V. *see* **Ahn, Soohan, 2005m:60022**
Renshaw, Eric *see* **Chen, Anyue, 2005b:60199**
Rubino, Gerardo *see* **Krinik, Alan et al., 2005d:60137**
Rutkowski, Marek *see* **Bielecki, Tomasz R., 2005b:91104**
Rutten, J. J. M. M. (*with* Kwiatkowska, Marta; Norman, Gethin; Parker, David) ★ Mathematical techniques for analyzing concurrent and probabilistic systems. **2005d:68004**
Sakawa, Masatoshi *see* **Azaron, Amir et al., 2005h:90027**
Sakun, V. P. *see* **Shushin, A. I., 2005f:82089**
Santoso, Lucia *see* **Booth, Hilary S. et al., 2005j:92014**
Schweinsberg, Jason *see* **Miermont, Grégory, 2005e:60086**
Sericola, Bruno *see* **Rabehasaina, Landy, 2005m:60213**
Shi, Ding Hua (*with* Guo, Jinli; Liu, Liming) On the SPH-distribution class. (English summary) **2005k:60049**
Shushin, A. I. (*with* Sakun, V. P.) Non-Markovian stochastic Liouville equation. (English summary) **2005f:82089**
Sisson, Scott (*with* Coles, Stuart) Modelling dependence uncertainty in the extremes of Markov chains. (English summary)
Smith, Hal L. *see* **Imran, Mudassar et al., 2005i:92019**
Spizzichino, Fabio *see* **De Santis, Emilio, 2005k:60151**
Stroock, Daniel W. ★ An introduction to Markov processes. **2005k:60003**
Świerniak, Andrzej *see* **Czornik, Adam, 2005e:49068**
Sztrik, János Tool supported performance modelling of finite-source retrial queues with breakdowns. (English summary)
Tamon, Christino *see* **ben-Avraham, Daniel et al., 2005g:81178**
Tavaré, Simon Ancestral inference in population genetics. **2005i:62155**
Tetali, Prasad *see* **Houdré, Christian, 2005h:60218**
Topchiĭ, V. A. (*with* Vatutin, Vladimir A.) Two-dimensional limit theorem for a critical catalytic branching random walk. (English summary) **2005i:60172**
Tsai, Henghsiu (*with* Chan, Kung Sik) A note on parameter differentiation of matrix exponentials, with applications to continuous-time modelling. (English summary) **2005d:15033**
Vatutin, Vladimir A. *see* **Topchiĭ, V. A., 2005i:60172**
Wang, Chun Ling[2] (*with* Li, Bing[1]) A maximum likelihood estimation for two-state Markov-modulated Poisson processes. (Chinese. English and Chinese summaries) **2005b:62176**
Waters, Howard R. *see* **Macdonald, Angus S. et al.**
Wekwete, Chessman T. *see* **Macdonald, Angus S. et al.**
Wolf, Verena *see* **Baier, Christel et al., (2005b:68010)**
Wu, Qun Ying μ-invariant measures for Q-processes—the case containing an absorbing state. (Chinese. English and Chinese summaries) **2005h:60261**
— On Kendall's conjecture for an extended birth-death Q-processes with instantaneous state and catastrophes. (English summary) **2005h:60257**
Yi, Xiao Wei (*with* Hu, Di He) The class of similar birth and death processes in a random environment. (Chinese. English and Chinese summaries) **2005h:60314**
Yin, Gang George (*with* Zhang, Qing[1]) Stochastic approximation methods for some finance problems. (English summary) (*see* **2005b:91010**)
— (*with* Zhang, Qing[1]; Liu, Yuan-jin) Discrete-time approximation of Wonham filters. (English summary) **2005e:93158**
— (*with* Krishnamurthy, Vikram; Ion, Cristina) Regime switching stochastic approximation algorithms with application to adaptive discrete stochastic optimization. (English summary) **2005m:62148**
— *see also* **Zhang, Qing[1], 2005d:91063**
Yue, Wuyi *see* **Hu, Qiying et al., (2005c:00015)**
Zeitouni, Ofer *see* **Diaconis, Persi et al., 2005e:60232**
Zerner, Martin P. W. *see* **Diaconis, Persi et al., 2005e:60232**
Zhang, Han Jun (*with* Mei, Qixiang; Lin, Xiang; Hou, Zhen Ting) Convergence property of standard transition functions. (English summary) **2005b:60201**
Zhang, Qing[1] (*with* Yin, Gang George) Nearly-optimal asset allocation in hybrid stock investment models. (English summary) **2005d:91063**
— *see also* **Yin, Gang George et al., 2005e:93158**; (**2005b:91010**) *and* **Guo, Xin, 2005h:91108**

Items listed otherwise than by author

Mathematical techniques for analyzing concurrent and probabilistic systems *see* **Rutten, J. J. M. M. et al., 2005d:68004**

60J35 Transition functions, generators and resolvents [see also 47D03, 47D07]

Bobrowski, A. Quasi-stationary distributions of a pair of Markov chains related to time evolution of a DNA locus. (English summary) **2005b:60198**
Bogachev, Vladimir I. (*with* Da Prato, Giuseppe; Röckner, Michael; Sobol, Zeev) Global gradient bounds for dissipative diffusion operators. (English and French summaries) **2005g:60117**
Chafaï, Djalil Entropies, convexity, and functional inequalities: on Φ-entropies and Φ-Sobolev inequalities. (English summary) **2005e:60170**
Chen, Anyue (*with* Renshaw, Eric) Markovian bulk-arriving queues with state-dependent control at idle time. (English summary) **2005b:60199**
Da Prato, Giuseppe Finite dimensional convex gradient systems perturbed by noise. **2005h:60236**
— An introduction to Markov semigroups. [*CIRM Autumn School on Evolution Equations and Semigroups (Levico Terme (Trento), 2001)*]. **2005m:60167**
— *see also* **Bogachev, Vladimir I. et al., 2005g:60117**
Dawson, Donald A. (*with* Li, Zeng Hu) Non-differentiable skew convolution semigroups and related Ornstein-Uhlenbeck processes. (English summary) **2005b:60200**
— (*with* Li, Zeng Hu; Schmuland, Byron; Sun, Wei[3]) Generalized Mehler semigroups and catalytic branching processes with immigration. (English summary) **2005d:60122**

Grigor'yan, Alexander Heat kernels and function theory on metric measure spaces. **2005c:60096**
Gulisashvili, Archil Free propagators and Feynman-Kac propagators. (English summary) (*see* **2005i:00017**)
Hou, Zhen Ting *see* **Zhang, Han Jun et al., 2005b:60201**
Knopova, V. P. Semigroups generated by certain pseudo-differential operators on the half-space $\mathbb{R}^{n+1}_{0+}$. (English summary) **2005k:60246**
Kolesnik, A. D. Weak convergence of the distributions of Markovian random evolutions in two and three dimensions. (English summary) **2005e:60171**
Li, Zeng Hu *see* **Dawson, Donald A. et al., 2005b:60200** *and* **2005d:60122**
Lin, Xiang *see* **Zhang, Han Jun et al., 2005b:60201**
Linetsky, Vadim The spectral representation of Bessel processes with constant drift: applications in queueing and finance. (English summary) **2005d:60123**
— On the transition densities for reflected diffusions. (English summary)
Liu, Yuan-jin (*with* Yin, Gang George) Asymptotic expansions of transition densities for hybrid jump-diffusions. (English summary) **2005f:60162**
Mei, Qixiang *see* **Zhang, Han Jun et al., 2005b:60201**
Pietruska-Pałuba, Katarzyna Heat kernels on metric spaces and a characterisation of constant functions. (English summary) **2005i:60148**
Renshaw, Eric *see* **Chen, Anyue, 2005b:60199**
Röckner, Michael *see* **Bogachev, Vladimir I. et al., 2005g:60117**
Schmuland, Byron *see* **Dawson, Donald A. et al., 2005d:60122**
Sobol, Zeev *see* **Bogachev, Vladimir I. et al., 2005g:60117**
Sun, Wei[3] *see* **Dawson, Donald A. et al., 2005d:60122**
Wang, Ying Zhe Algebraic convergence of diffusion processes on a real line. (Chinese. English and Chinese summaries) **2005h:60237**
Yin, Gang George *see* **Liu, Yuan-jin, 2005f:60162**
Zhang, Han Jun (*with* Mei, Qixiang; Lin, Xiang; Hou, Zhen Ting) Convergence property of standard transition functions. (English summary) **2005b:60201**

Items with secondary classifications in 60J35

Antonyuk, A. Val. Nonlinear estimates for the regularity of differential flows on manifolds. (Ukrainian. English, Russian and Ukrainian summaries) **2005m:58078**
Antonyuk, A. Vikt. Regularity properties of semigroups generated by nonlinear flows on manifolds. (Ukrainian. English, Russian and Ukrainian summaries) **2005m:58079**
Bañuelos, Rodrigo (*with* Kulczycki, Tadeusz) The Cauchy process and the Steklov problem. (English summary) **2005b:60124**
Barthe, Franck (*with* Cordero-Erausquin, Dario) Inverse Brascamp-Lieb inequalities along the heat equation. (English summary) **2005i:52012**
Ben Amor, Ali On the equivalence between trace and capacitary inequalities for the abstract contractive space of Bessel potentials. (English summary) **2005m:31018**
Bertoldi, M. (*with* Fornaro, S.) Gradient estimates in parabolic problems with unbounded coefficients. (English summary) **2005j:35084**
Beznea, Lucian (*with* Boboc, Nicu) Sub-Markovian resolvents under weak duality hypothesis. (English summary) **2005b:60202**
— (*with* Boboc, Nicu) Fine densities for excessive measures and the Revuz correspondence. (English summary) **2005m:60168**
Bhatt, Abhay G. (*with* Karandikar, Rajeeva L.) Martingale problems and path properties of solutions. (English summary) **2005b:60189**
Boboc, Nicu *see* **Beznea, Lucian, 2005b:60202** *and* **2005m:60168**
Bodnariu, Mircea Three-point transition functions and Markov properties. (English summary) **2005h:60212**
Bogdan, Krzysztof (*with* Stós, Andrzej; Sztonyk, Paweł) Harnack inequality for stable processes on d-sets. (English summary) **2005i:60092**
Böttcher, Björn (*with* Jacob, Niels) Remarks on Meixner-type processes. (English summary) **2005g:60130**
Chen, Zhen-Qing Analytic characterization of conditional gaugeability for non-local Feynman-Kac transforms. (English summary) **2005c:60097**
— (*with* Kumagai, Takashi) Heat kernel estimates for stable-like processes on d-sets. (English summary) **2005d:60135**
Chill, Ralph (*with* Fašangová, Eva; Metafune, Giorgio; Pallara, Diego) The sector of analyticity of the Ornstein-Uhlenbeck semigroup on L^p spaces with respect to invariant measure. (English summary) **2005k:35303**
Cordero-Erausquin, Dario *see* **Barthe, Franck, 2005i:52012**
Da Prato, Giuseppe A new regularity result for Ornstein-Uhlenbeck generators and applications. **2005c:47054**
Davies, E. Brian Computing the decay of a simple reversible sub-Markov semigroup. (English summary) **2005a:47077**
Dermoune, Azzouz (*with* Filali, Siham) Estimates of the transition density of a gas system. (English summary) **2005k:60250**
Di Crescenzo, Antonio (*with* Nastro, A.) On first-passage-time densities for certain symmetric Markov chains. (English summary) **2005d:60120**
Fašangová, Eva *see* **Chill, Ralph et al., 2005k:35303**
Filali, Siham *see* **Dermoune, Azzouz, 2005k:60250**
Fornaro, S. *see* **Bertoldi, M., 2005j:35084**
Forzani, Liliana (*with* Macías, R. A.; Scotto, R.) Pointwise convergence of the Ornstein-Uhlenbeck semigroup. (Spanish. Spanish summary) **2005f:47098**
Frankiewicz, Ewa Pricing of a defaultable coupon bond in an extended Merton's model. (English summary) **2005k:60234**
Hambly, Ben M. (*with* Kumagai, Takashi) Heat kernel estimates for symmetric random walks on a class of fractal graphs and stability under rough isometries. (English summary) **2005k:60141**
Hmissi, Farida (*with* Hmissi, Mohamed) Bochner subordination and ergodicity. (English summary) **2005f:37012**
Hmissi, Mohamed *see* **Hmissi, Farida, 2005f:37012**
Jacob, Niels *see* **Böttcher, Björn, 2005g:60130**
Karandikar, Rajeeva L. *see* **Bhatt, Abhay G., 2005b:60189**
Kigami, Jun Local Nash inequality and inhomogeneity of heat kernels. **2005f:47105**
Kingman, J. F. C. Extremal problems for regenerative phenomena. (English summary) **2005g:60134**
Knopova, V. P. On some generators of L_p-sub-Markov semigroups. (Ukrainian. English summary) **2005h:47085**
— On a generator of an L_p-sub-Markovian semigroup on $\mathbb{R}^{n+1}_{0+}$. (English summary) **2005g:35316**
Kulczycki, Tadeusz *see* **Bañuelos, Rodrigo, 2005b:60124**
Kumagai, Takashi Function spaces and stochastic processes on fractals. (English summary) **2005i:60160**
— *see also* **Chen, Zhen-Qing, 2005d:60135** *and* **Hambly, Ben M., 2005k:60141**
Le Jan, Yves (*with* Lemaire, S.) Products of Beta matrices and sticky flows. (English summary) **2005k:60243**
Lemaire, S. *see* **Le Jan, Yves, 2005k:60243**
Li, Zeng Hu (*with* Lu, Guan Hua[2]; Wang, Hao[5]) Immigration superprocesses with dependent spatial motion and non-critical branching. (Chinese. English and Chinese summaries) **2005j:60159**
Lu, Guan Hua[2] *see* **Li, Zeng Hu et al., 2005j:60159**
Macías, R. A. *see* **Forzani, Liliana et al., 2005f:47098**
Martínez, Servet A. (*with* San Martín, Jaime) Classification of killed one-dimensional diffusions. (English summary) **2005e:60180**
Metafune, Giorgio *see* **Chill, Ralph et al., 2005k:35303**
Mitrofanov, A. Yu. Note on Zeifman's bounds on the rate of convergence for birth-death processes. (English summary) **2005g:60133**
— The spectral gap and perturbation bounds for reversible continuous-time Markov chains. (English summary) **2005k:60245**
— Reversible Markov chains and spanning trees. (English summary) **2005j:60142**
Myjak, Józef (*with* Szarek, Tomasz) Attractors of iterated function systems and Markov operators [MR1983076 (2004i:37009)]. (*see* **2005d:00015**)
Nastro, A. *see* **Di Crescenzo, Antonio, 2005d:60120**
Pallara, Diego *see* **Chill, Ralph et al., 2005k:35303**
Pistorius, Martijn R. On exit and ergodicity of the spectrally one-sided Lévy process reflected at its infimum. (English summary) **2005e:60104**
Popa, Eugen Semi-dynamical systems on cones of measures. (English summary) **2005m:31023**
— Absolutely continuous semi-groups. (English summary) **2005m:31024**
Ramasubramanian, S. Diffusions and the martingale problem of Stroock and Varadhan. **2005a:60126**
San Martín, Jaime *see* **Martínez, Servet A., 2005e:60180**
Schilling, René L. A note on invariant sets. (English summary) **2005h:47086**
Scotto, R. *see* **Forzani, Liliana et al., 2005f:47098**
Sri Namachchivaya, N. (*with* Van Roessel, Henry J.) Stochastic stability of coupled oscillators in resonance: a perturbation approach. (English summary) **2005i:70058**
Stannat, Wilhelm Time-dependent diffusion operators on L^1. (English summary) **2005h:35201**
Stós, Andrzej *see* **Bogdan, Krzysztof et al., 2005i:60092**
Stroock, Daniel W. Some comments about Itô's construction procedure. (English summary) **2005h:60228**
Szarek, Tomasz *see* **Myjak, Józef, (2005d:00015)**
Sztonyk, Paweł *see* **Bogdan, Krzysztof et al., 2005i:60092**
Van Roessel, Henry J. *see* **Sri Namachchivaya, N., 2005i:70058**
Villarroel, Javier On a solvable diffusion with time dependent "killing". (English summary) **2005b:60213**
Wang, Feng Yu Functional inequalities and applications. (English and Chinese summaries) **2005b:47093**
— Gradient estimates of Dirichlet heat semigroups and application to isoperimetric inequalities. (English summary) **2005f:58040**
— Weak Poincaré inequalities on path spaces. **2005c:58067**
— Spectral gap for hyperbounded operators. (English summary) **2005b:47092**
— A character of the gradient estimate for diffusion semigroups. (English summary) **2005j:47045**
Wang, Hao[5] *see* **Li, Zeng Hu et al., 2005j:60159**
Yau, Horng-Tzer $(\log t)^{2/3}$ law of the two dimensional asymmetric simple exclusion process (English summary) **2005d:60156**
Yurachkovskiĭ, A. P. (*with* Zhugaēvich, A. Ya.) An approximate calculation of operator semigroups by the method of perturbation of generators. (Ukrainian. English summary) **2005a:47076**
Zhugaēvich, A. Ya. *see* **Yurachkovskiĭ, A. P., 2005a:47076**

60J40 Right processes

Getoor, Ronald Gauge theorems for Stieltjes exponentials. (English summary) **2005g:60118**

Items with secondary classifications in 60J40

Beznea, Lucian (*with* Boboc, Nicu) Sub-Markovian resolvents under weak duality hypothesis. (English summary) **2005b:60202**
— (*with* Boboc, Nicu) Fine densities for excessive measures and the Revuz correspondence (English summary) **2005m:60168**
Bezzarga, Mounir Right dual process for semidynamical systems. (English summary) **2005c:47059**
Boboc, Nicu *see* **Beznea, Lucian, 2005b:60202** *and* **2005m:60168**
Kolesnikov, A. V. Convergence of Dirichlet forms with changing speed measures on $\mathbb{R}^d$. (English summary) **2005m:31020**
Takeda, Masayoshi (*with* Uemura, Toshihiro) Subcriticality and gaugeability for symmetric α-stable processes. (English summary) **2005d:60124**
Uemura, Toshihiro *see* **Takeda, Masayoshi, 2005d:60124**

60J45 Probabilistic potential theory [see also 31Cxx, 31D05]

Al'beverio, S. Theory of Dirichlet forms and applications. (English summary) **2005a:60120**
Bañuelos, Rodrigo (*with* Pang, Michael) An inequality for potentials and the "hot-spots" conjecture. (English summary) **2005e:60172**

— (*with* Bogdan, Krzysztof) Symmetric stable processes in cones. (English summary) **2005h:60238**
Bel Hadj Rhouma, Nadra (*with* Bezzarga, Mounir) Regular potentials of additive functionals in semidynamical systems. (English summary) **2005g:60119**
van den Berg, M. (*with* Bolthausen, Erwin) Area versus capacity and solidification in the crushed ice model. **2005g:60120**
Beznea, Lucian (*with* Boboc, Nicu) Sub-Markovian resolvents under weak duality hypothesis. (English summary) **2005b:60202**
— (*with* Boboc, Nicu) Fine densities for excessive measures and the Revuz correspondence. (English summary) **2005m:60168**
Bezzarga, Mounir *see* **Bel Hadj Rhouma, Nadra, 2005g:60119**
Boboc, Nicu *see* **Beznea, Lucian, 2005b:60202** *and* **2005m:60168**
Bogdan, Krzysztof *see* **Bañuelos, Rodrigo, 2005h:60238**
Bolthausen, Erwin *see* **van den Berg, M., 2005g:60120**
Chen, Zhen-Qing Analytic characterization of conditional gaugeability for non-local Feynman-Kac transforms. (English summary) **2005c:60097**
— (*with* Fitzsimmons, Patrick J.; Takeda, Masayoshi; Ying, Jiangang; Zhang, Tu Sheng) Absolute continuity of symmetric Markov processes. (English summary) **2005g:60121**
Collet, Pierre Asymptotic of the heat kernel in unbounded domains. **2005b:60203**
Dalang, Robert C. (*with* Nualart, Eulalia) Potential theory for hyperbolic SPDEs. (English summary) **2005f:60163**
El Karoui, Nicole (*with* Föllmer, Hans) A non-linear Riesz representation in probabilistic potential theory. (English and French summaries) **2005m:60169**
Fitzsimmons, Patrick J. *see* **Chen, Zhen-Qing et al., 2005g:60121**
Föllmer, Hans *see* **El Karoui, Nicole, 2005m:60169**
Fukushima, Masatoshi (*with* Ying, Jiangang) A note on regular Dirichlet subspaces. (English summary) **2005b:60204**
— (*with* He, Ping^2; Ying, Jiangang) Time changes of symmetric diffusions and Feller measures. (English summary) **2005j:60143**
— (*with* Ying, Jiangang) Erratum to: "A note on regular Dirichlet subspaces" [Proc. Amer. Math. Soc. **131** (2003), no. 5, 1607–1610; MR1950292 (2005b:60204)]. **2005b:60205**
Grecea, Valentin On some results concerning the reduite and balayage. (English summary) **2005e:60173**
He, Ping^2 (*with* Ying, Jiangang) Excursions and Lévy system of boundary process. (English summary) **2005a:60121**
— *see also* **Fukushima, Masatoshi et al., 2005j:60143**
Hu, Di He (*with* Yang, Guang Yu; Li, Yong Kui) Random harmonic functions of some stochastic transition matrices. (Chinese. English and Chinese summaries) **2005m:60170**
Kaneko, Hiroshi^2 Analysis based on the Dirichlet space theory on some extensions of $\mathbb{Q}_p$. (English summary) **2005h:60239**
Kartashov, N. (*with* Mīshura, Yulīya) What random variable generates a bounded potential? **2005f:60164**
Kozma, Gady (*with* Schreiber, Ehud) An asymptotic expansion for the discrete harmonic potential. (English summary) **2005f:60165**
Kumagai, Takashi Heat kernel estimates and parabolic Harnack inequalities on graphs and resistance forms. (English summary) **2005g:60122**
Kuwae, Kazuhiro Conservativeness of diffusion processes with drift. (English summary) **2005b:60206**
Li, Yong Kui *see* **Hu, Di He et al., 2005m:60170**
Lijoi, Antonio (*with* Regazzini, Eugenio) Means of a Dirichlet process and multiple hypergeometric functions. (English summary) **2005c:60098**
Metz, Volker A note on the diamond fractal. (English summary) **2005e:60174**
Mīshura, Yulīya *see* **Kartashov, N., 2005f:60164**
Mora Espinosa, Carlos Fernando Dirichlet forms and Markov processes. (Spanish. English and Spanish summaries)
Nualart, Eulalia *see* **Dalang, Robert C., 2005f:60163**
Oshima, Yoichi Time-dependent Dirichlet forms and related stochastic calculus. (English summary) **2005e:60175**
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Regazzini, Eugenio *see* **Lijoi, Antonio, 2005c:60098**
Schreiber, Ehud *see* **Kozma, Gady, 2005f:60165**
Shiozawa, Yuichi (*with* Takeda, Masayoshi) Variational formula for Dirichlet forms and estimates of principal eigenvalues for symmetric α-stable processes. (English summary) **2005m:60171**
Song, Renming Sharp bounds on the density, Green function and jumping function of subordinate killed BM. (English summary) **2005c:60099**
Takeda, Masayoshi (*with* Tsuchida, Kaneharu) Criticality of generalized Schrödinger operators and differentiability of spectral functions. (English summary) **2005h:60240**
— (*with* Uemura, Toshihiro) Subcriticality and gaugeability for symmetric α-stable processes. (English summary) **2005d:60124**
— *see also* **Chen, Zhen-Qing et al., 2005g:60121** *and* **Shiozawa, Yuichi, 2005m:60171**
Tsuchida, Kaneharu *see* **Takeda, Masayoshi, 2005h:60240**
Uemura, Toshihiro *see* **Takeda, Masayoshi, 2005d:60124**
Yang, Guang Yu *see* **Hu, Di He et al., 2005m:60170**
Ying, Jiangang *see* **He, Ping^2, 2005a:60121**; **Fukushima, Masatoshi et al., 2005b:60204**; **2005b:60205**; **2005j:60143** *and* **Chen, Zhen-Qing et al., 2005g:60121**
Zähle, Martina Riesz potentials and Besov spaces on fractals. (English summary) **2005k:60247**
Zhang, Tu Sheng *see* **Chen, Zhen-Qing et al., 2005g:60121**

Items with secondary classifications in 60J45

Al'beverio, S. (*with* Rüdiger, Barbara) Subordination of symmetric quasi-regular Dirichlet forms. (English summary) **2005m:31019**
Bally, Vlad (*with* Pardoux, Étienne; Stoica, Lucretiu) Backward stochastic differential equations associated to a symmetric Markov process. (English summary) **2005k:60173**
Bañuelos, Rodrigo (*with* Pang, Michael; Pascu, Mihai N.) Brownian motion with killing and reflection and the "hot-spots" problem. (English summary) **2005j:60151**
— (*with* Carroll, Thomas Finbarr) Sharp integrability for Brownian motion in parabola-shaped regions. (English summary) **2005j:60152**
Barlow, Martin T. (*with* Bass, Richard F.) Stability of parabolic Harnack inequalities. (English summary) **2005e:60167**
— Some remarks on the elliptic Harnack inequality. (English summary) **2005k:31010**
Bass, Richard F. *see* **Barlow, Martin T., 2005e:60167**
Ben Amor, Ali On the equivalence between trace and capacitary inequalities for the abstract contractive space of Bessel potentials. (English summary) **2005m:31018**
Bendikov, A. D. (*with* Saloff-Coste, Laurent) Brownian motions on compact groups of infinite dimension. (English summary) **2005c:60007**
van den Berg, M. Exit and return of a simple random walk. (English summary) **2005m:60091**
Betsakos, Dimitrios Symmetrization, symmetric stable processes, and Riesz capacities. (English summary) **2005b:31004**
— Addendum to: "Symmetrization, symmetric stable processes, and Riesz capacities" [Trans. Amer. Math. Soc. **356** (2004), no. 2, 735–755 (electronic); MR2022718 (2005b:31004)]. **2005b:31005**
Bogdan, Krzysztof (*with* Sztonyk, Paweł) Harnack's inequality for stable Lévy processes. (English summary) **2005m:31015**
Bouleau, Nicolas Some remarks on axiomatized languages and extension tools: focus on probability theory and error calculus with Dirichlet forms. (Catalan)
Carroll, Thomas Finbarr *see* **Bañuelos, Rodrigo, 2005j:60152**
Chen, Zhen-Qing (*with* Kim, Panki) Stability of Martin boundary under non-local Feynman-Kac perturbations. (English summary) **2005d:60125**
Çinlar, E. Conditional Lévy processes. (English summary) **2005d:60077**
DeBlassie, Richard Dante Higher order PDEs and symmetric stable processes. (English summary) **2005d:60079**
Dellacherie, Claude Nonlinear Dirichlet problem and nonlinear integration. **2005g:35090**
Deparis, Simone (*with* Martini, Claude) Superheading strategies and balayage in discrete time. (English summary) **2005g:91081**
Duplantier, Bertrand Conformal fractal geometry & boundary quantum gravity. (English summary) **2005m:82057**
Fīlonov, Yu. P. *see* **Īsakova, T. Ī., 2005h:60209**
Fitzsimmons, Patrick J. Superposition operators on Dirichlet spaces. (English summary) **2005k:31027**
Fontbona, J. (*with* Martínez, Servet A.) The homotopical reduction of a nearest neighbor random walk. (English summary) **2005a:60068**
Fukushima, Masatoshi Function spaces and symmetric Markov processes. (English summary) **2005k:60235**
Heicklen, Deborah (*with* Hoffman, Christopher) Return probabilities of a simple random walk on percolation clusters. (English summary) **2005j:60182**
Hesse, M. (*with* Rumpf, Martin; Sturm, Karl-Theodor) Discretization and convergence for harmonic maps into trees. (English summary) **2005g:58028**
Hino, Masanori Integral representation of linear functionals on vector lattices and its application to BV functions on Wiener space. (English summary) **2005g:31005**
Hoffman, Christopher *see* **Heicklen, Deborah, 2005j:60182**
Hoh, Walter (*with* Jacob, Niels) Towards an L^p-potential theory for sub-Markovian semigroups: variational inequalities and balayage theory. (English summary) **2005k:47091**
Hou, Li Ying The hitting distribution of a strip for planar Brownian motion. (Chinese. English and Chinese summaries)
Īsakova, T. Ī. (*with* Fīlonov, Yu. P.) Integral conditions for the invertibility of Markov chains on a half-line with a general measure of irreducibility. (Ukrainian. English and Ukrainian summaries) **2005h:60209**
Jacob, Niels *see* **Hoh, Walter, 2005k:47091**
(Jolis, Maria) *see* **Bouleau, Nicolas**
Jonsson, Alf A Dirichlet form on the Sierpinski gasket, related function spaces, and traces. (English summary) **2005d:31017**
Kersting, Götz (*with* Memişoğlu, Kaya) Path decompositions for Markov chains. (English summary) **2005e:60161**
Khoshnevisan, Davar (*with* Xiao, Yimin) Additive Lévy processes: capacity and Hausdorff dimension. (English summary) **2005j:60080**
Kim, Panki *see* **Chen, Zhen-Qing, 2005d:60125**
Külske, Christof Regularity properties of potentials for joint measures of random spin systems. (English summary) **2005m:82071**
Kumagai, Takashi Function spaces and stochastic processes on fractals. (English summary) **2005i:60160**
— Homogenization on finitely ramified fractals. (English summary) **2005h:60102**
Lewandowski, Maciej On the exit time of α-stable process. (English summary) **2005a:60072**
Lukinov, V. L. (*with* Mikhailov, Gennadii A.) Probabilistic representation and Monte Carlo methods for the first boundary value problem for a polyharmonic equation. (English summary) **2005i:65213**
Martínez, Servet A. *see* **Fontbona, J., 2005a:60068**
Martini, Claude *see* **Deparis, Simone, 2005g:91081**
Memişoğlu, Kaya *see* **Kersting, Götz, 2005e:60161**
Metz, Volker "Laplacians" on finitely ramified, graph directed fractals. (English summary) **2005i:31016**
— The short-cut test. (English summary) **2005k:31026**
Meyers, Robert (*with* Strichartz, Robert S.; Teplyaev, A. V.) Dirichlet forms on the Sierpiński gasket. (English summary) **2005k:31028**
Michalik, Krzysztof (*with* Ryznar, Michał) Relative Fatou theorem for α-harmonic functions in Lipschitz domains. (English summary) **2005i:31010**
Mikhailov, Gennadii A. *see* **Lukinov, V. L., 2005i:65213**
Ôkura, Hiroyuki Capacitary upper estimates for symmetric Dirichlet forms. (English summary) **2005b:31010**
Pang, Michael *see* **Bañuelos, Rodrigo et al., 2005j:60151**
Pardoux, Étienne *see* **Bally, Vlad et al., 2005k:60173**
Pascu, Mihai N. *see* **Bañuelos, Rodrigo et al., 2005j:60151**
Pietruska-Pałuba, Katarzyna Heat kernels on metric spaces and a characterisation of constant functions. (English summary) **2005i:60148**
Popa, Eugen Semi-dynamical systems on cones of measures. (English summary) **2005m:31023**

— Absolutely continuous semi-groups. (English summary) **2005m:31024**
Posilicano, Andrea (*with* Zhang, Tu Sheng) Convergence of symmetric diffusions on Wiener spaces. (English summary) **2005b:60210**
Pugachev, O. V. Sobolev capacities of a set of configurations with multiple points in the Poisson space. (Russian. Russian summary) **2005m:31005**
Ren, Yan-Xia Support properties of super-Brownian motions with spatially dependent branching rate. (English summary) **2005e:60197**
von Renesse, Max-K. Intrinsic coupling on Riemannian manifolds and polyhedra. (English summary) **2005i:60158**
Rüdiger, Barbara *see* **Al'beverio, S., 2005m:31019**
Rumpf, Martin *see* **Hesse, M. et al., 2005g:58028**
Ryznar, Michał *see* **Michalik, Krzysztof, 2005i:31010**
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Schilling, René L. A note on invariant sets. (English summary) **2005h:47086**
Stoica, Lucretiu *see* **Bally, Vlad et al., 2005k:60173**
Strichartz, Robert S. *see* **Meyers, Robert et al., 2005k:31028**
Sturm, Karl-Theodor *see* **Hesse, M. et al., 2005g:58028**
Sztonyk, Paweł *see* **Bogdan, Krzysztof, 2005m:31015**
Teplyaev, A. V. *see* **Meyers, Robert et al., 2005k:31028**
Thalmaier, Anton (*with* Wang, Feng Yu) Derivative estimates of semigroups and Riesz transforms on vector bundles. (English summary) **2005d:58066**
Uemura, Toshihiro On symmetric stable-like processes: some path properties and generators. (English summary) **2005h:60117**
Wang, Feng Yu Weak Poincaré inequalities on path spaces. **2005c:58067**
— *see also* **Thalmaier, Anton, 2005d:58066**
Xiao, Yimin *see* **Khoshnevisan, Davar, 2005j:60080**
Zhang, Tu Sheng *see* **Posilicano, Andrea, 2005b:60210**
Zorii, N. V. Equilibrium potentials with external fields. (Russian. English and Ukrainian summaries) **2005e:31010**

60J50 Boundary theory

Chen, Zhen-Qing (*with* Kim, Panki) Stability of Martin boundary under non-local Feynman-Kac perturbations. (English summary) **2005d:60125**
Kim, Panki *see* **Chen, Zhen-Qing, 2005d:60125**
Malyutin, A. V. The Poisson-Furstenberg boundary of a locally free group. (Russian. English and Russian summaries) **2005h:60241**

Items with secondary classifications in 60J50

Benjamini, Itai (*with* Chen, Zhen-Qing; Rohde, Steffen) Boundary trace of reflecting Brownian motions. (English summary) **2005e:60183**
Chen, Zhen-Qing *see* **Benjamini, Itai et al., 2005e:60183**
Collins, Benoît Martin boundary theory of some quantum random walks. (English and French summaries) **2005m:31021**
DeBlassie, Richard Dante (*with* Smits, Robert) Brownian motion in twisted domains. (English summary) **2005m:60184**
Dellacherie, Claude Nonlinear Dirichlet problem and nonlinear integration. **2005g:35090**
Dokuchaev, Nikolai Estimates for distances between first exit times via parabolic equations in unbounded cylinders. (English summary) **2005e:60084**
Dube, Parijat (*with* Guillemin, Fabrice; Mazumdar, Ravi R.) Scale functions of Lévy processes and busy periods of finite-capacity $M/GI/1$ queues. (English summary) **2005m:60208**
Erschler-Dyubina, Anna Liouville property for groups and manifolds. (English summary) **2005i:43023**
Fukushima, Masatoshi (*with* He, Ping[2]; Ying, Jiangang) Time changes of symmetric diffusions and Feller measures. (English summary) **2005j:60143**
Godefroy, Laurent Martin boundary of polynomial random walks on the d-dimensional lattice of nonnegative integers. (English summary) **2005b:60120**
Grigorescu, Ilie (*with* Kang, Min) Path collapse for multidimensional Brownian motion with rebirth. (English summary) **2005j:60155**
— (*with* Kang, Min) Hydrodynamic limit for a Fleming-Viot type system. (English summary) **2005d:60153**
Guillemin, Fabrice *see* **Dube, Parijat et al., 2005m:60208**
He, Ping[2] *see* **Fukushima, Masatoshi et al., 2005j:60143**
Izumi, Masaki Non-commutative Poisson boundaries. (English summary) **2005e:46126**
Kang, Min *see* **Grigorescu, Ilie, 2005d:60153** *and* **2005j:60155**
Kolokol'tsov, V. N. On Markov processes with decomposable pseudo-differential generators. (English summary) **2005b:60193**
Kou, S. C. (*with* Kou, S. G.) A diffusion model for growth stocks. (English summary) **2005g:60124**
Kou, S. G. *see* **Kou, S. C., 2005g:60124**
Mazumdar, Ravi R. *see* **Dube, Parijat et al., 2005m:60208**
Rao, Calyampudi Radhakrishna (*with* Rao, Marepalli Bhaskara; Shanbhag, D. N.) Damage models: a Martin boundary connection. (English summary) **2005b:60033**
Rao, Marepalli Bhaskara *see* **Rao, Calyampudi Radhakrishna et al., 2005b:60033**
Rohde, Steffen *see* **Benjamini, Itai et al., 2005e:60183**
Shanbhag, D. N. *see* **Rao, Calyampudi Radhakrishna et al., 2005b:60033**
Smits, Robert *see* **DeBlassie, Richard Dante, 2005m:60184**
Ying, Jiangang *see* **Fukushima, Masatoshi et al., 2005j:60143**

60J55 Local time and additive functionals

Abraham, Romain (*with* Delmas, Jean-François) Solutions of $\Delta u = 4u^2$ with Neumann's conditions using the Brownian snake. (English summary) **2005d:60126**
Ait Ouahra, Mohamed Convergence in law for certain additive functionals of symmetric stable processes under strong topology. (English and French summaries) **2005m:60172**
Bass, Richard F. (*with* Chen, Xia[1]) Self-intersection local time: critical exponent, large deviations, and laws of the iterated logarithm. (English summary) **2005i:60149**
Beghin, Luisa (*with* Orsingher, Enzo) The distribution of the local time for "pseudo-processes" and its connection with fractional diffusion equations. (English summary) **2005m:60173**
Chen, Xia[1] (*with* Guillin, Arnaud) The functional moderate deviations for Harris recurrent Markov chains and applications. (English and French summaries) **2005c:60100**
— Exponential asymptotics and law of the iterated logarithm for intersection local times of random walks. (English summary) **2005m:60174**
— (*with* Li, Wenbo V.) Large and moderate deviations for intersection local times. (English summary) **2005m:60175**
— *see also* **Bass, Richard F., 2005i:60149**
Csáki, Endre (*with* Földes, Antónia; Shi, Zhan) Our joint work with Miklós Csörgő. (English summary) **2005k:60248**
(Csörgő, Miklós) *see* **Csáki, Endre et al., 2005k:60248**
Delmas, Jean-François Computation of moments for the length of the one dimensional ISE support. (English summary) **2005c:60101**
— *see also* **Abraham, Romain, 2005d:60126**
Földes, Antónia *see* **Csáki, Endre et al., 2005k:60248**
Gittenberger, Bernhard (*with* Louchard, Guy) Reflected Brownian bridge local time conditioned on its local time at the origin. (English summary) **2005b:60207**
Guillin, Arnaud *see* **Chen, Xia[1], 2005c:60100**
Kirichinskaya, I. B. *see* **Ruzhevich, N. A., 2005f:60166**
Klenke, Achim Thin points of Brownian motion intersection local times. (English summary) (*see* **2005i:00006**)
Korolyuk, Vladimir S. (*with* Limnios, Nikolaos) Diffusion approximation of evolutionary systems with equilibrium in asymptotic split phase space. (English summary) **2005m:60176**
Li, Wenbo V. *see* **Chen, Xia[1], 2005m:60175**
Limnios, Nikolaos *see* **Korolyuk, Vladimir S., 2005m:60176**
Liu, Jicheng[1] (*with* Ren, Jiagang) Regularities of local times of two-parameter martingales. (English summary) **2005j:60144**
López-Mimbela, José Alfredo (*with* Villa, J.) Super-Brownian local time: a representation and two applications. **2005g:60123**
Louchard, Guy *see* **Gittenberger, Bernhard, 2005b:60207**
Marcus, Michael B. Local times on curves and surfaces. (English summary) **2005a:60122**
Orsingher, Enzo *see* **Beghin, Luisa, 2005m:60173**
Ren, Jiagang *see* **Liu, Jicheng[1], 2005j:60144**
Ruzhevich, N. A. (*with* Kirichinskaya, I. B.) Asymptotic normality of an additive functional of a Markov random walk. (Ukrainian. English and Russian summaries) **2005f:60166**
Shi, Zhan *see* **Csáki, Endre et al., 2005k:60248**
Uemura, Hideaki Unrenormalized intersection local time of Brownian motion and its local time representation. (English summary) **2005a:60123**
Villa, J. *see* **López-Mimbela, José Alfredo, 2005g:60123**

Items with secondary classifications in 60J55

Ait Ouahra, Mohamed Weak convergence to fractional Brownian motion in some anisotropic Besov space. (English summary) **2005f:60084**
Alvarez-Andrade, Sergio About increments of additive functionals of diffusion processes. (English summary) **2005k:60094**
Bass, Richard F. (*with* Rosen, Jay) An almost sure invariance principle for renormalized intersection local times. (English summary) **2005k:60106**
Baurdoux, E. J. (*with* Kyprianou, Andreas E.) Further calculations for Israeli options (English summary) **2005g:91093**
Bel Hadj Rhouma, Nadra (*with* Bezzarga, Mounir) Regular potentials of additive functionals in semidynamical systems. (English summary) **2005g:60119**
Beznea, Lucian (*with* Boboc, Nicu) Sub-Markovian resolvents under weak duality hypothesis. (English summary) **2005b:60202**
— (*with* Boboc, Nicu) Fine densities for excessive measures and the Revuz correspondence. (English summary) **2005m:60168**
Bezzarga, Mounir *see* **Bel Hadj Rhouma, Nadra, 2005g:60119**
Boboc, Nicu *see* **Beznea, Lucian, 2005b:60202** *and* **2005m:60168**
Bojdecki, Tomasz (*with* Gorostiza, Luis G.; Talarczyk, Anna) Fractional Brownian density process and its self-intersection local time of order k. (English summary) **2005j:60076**
Boufoussi, Brahim (*with* Dozzi, Marco) On the local time of multiparameter symmetric stable processes. Regularity and limit theorem in Besov spaces. (English summary) **2005h:60114**
Burdzy, Krzysztof (*with* Kaspi, Haya) Lenses in skew Brownian flow. (English summary) **2005j:60153**
Chen, Xia[1] (*with* Li, Wenbo V.; Rosen, Jay) Large deviations for local times of stable processes and stable random walks in 1 dimension. (English summary) **2005m:60050**
Csáki, Endre (*with* Shi, Zhan; Yor, Marc) Fractional Brownian motions as "higher-order" fractional derivatives of Brownian local times. (English summary) **2005f:60171**
Dozzi, Marco *see* **Boufoussi, Brahim, 2005h:60114**
Eddahbi, M'hamed (*with* Vives, Josep) Chaotic expansion and smoothness of some functionals of the fractional Brownian motion. (English summary) **2005d:60058**
Eisenbaum, Nathalie Isomorphism theorems for Markov chains. (English summary) **2005b:60183**
de Faria, Margarida (*with* Rezgui, Anis; Streit, Ludwig) Martingale approximation for self-intersection local time of Brownian motion. (English summary) **2005i:60155**
Getoor, Ronald Gauge theorems for Stieltjes exponentials. (English summary) **2005g:60118**
Ghomrasni, R. (*with* Peskir, Goran) Local time-space calculus and extensions of Itô's formula. (English summary) **2005j:60106**
Gorostiza, Luis G. *see* **Bojdecki, Tomasz et al., 2005j:60076**
Hammouch, H. Normal martingales and polynomial families. (English summary) **2005k:60133**
Hu, Yueyun (*with* Shi, Zhan) Moderate deviations for diffusions with Brownian potentials. (English summary) **2005g:60164**
Jankowski, Hanna *see* **Quastel, Jeremy et al., 2005a:60034**
Kaspi, Haya *see* **Burdzy, Krzysztof, 2005j:60153**

Korolyuk, Vladimir S. (*with* Limnios, Nikolaos) Compound Poisson approximation with drift for stochastic additive functionals with Markov and semi-Markov switching. (English summary) (*see* **2005f:60007**)
Kozlova, Marina (*with* Salminen, Paavo) Diffusion local time storage. (English summary) **2005h:60277**
Kyprianou, Andreas E. *see* **Baurdoux, E. J., 2005g:91093**
Lachal, Aimé Application de la théorie des excursions à l'intégrale du mouvement brownien. (English and French summaries) [Application of the theory of excursions to the integral of Brownian motion] **2005g:60128**
Landim, Claudio Central limit theorem for Markov processes. **2005b:60055**
Li, Wenbo V. *see* **Chen, Xia[1] et al., 2005m:60050**
Limnios, Nikolaos *see* **Korolyuk, Vladimir S., (2005f:60007)**
Mataramvura, Sure (*with* Øksendal, Bernt K.; Proske, Frank) The Donsker delta function of a Lévy process with application to chaos expansion of local time. (English and French summaries) **2005h:60140**
Mountford, Thomas S. Brownian sheet local time and bubbles. (English summary) **2005a:60055**
Mytnik, L. (*with* Xiang, Kai-nan) Tanaka formulae for (α, d, β)-superprocesses. (English summary) **2005e:60196**
Øksendal, Bernt K. *see* **Mataramvura, Sure et al., 2005h:60140**
Peskir, Goran *see* **Ghomrasni, R., 2005j:60106**
Piau, Didier Further scaling exponents of random walks in random sceneries. (English summary) **2005d:60160**
Proske, Frank *see* **Mataramvura, Sure et al., 2005h:60140**
Quastel, Jeremy (*with* Jankowski, Hanna; Sheriff, John) Central limit theorem for zero-range processes. (English summary) **2005a:60034**
Révész, Pál A prediction problem of the branching random walk. (English summary) **2005c:60112**
— The maximum of the local time of a transient random walk. (English summary) **2005i:60090**
Rezgui, Anis *see* **de Faria, Margarida et al., 2005i:60155**
Rosen, Jay *see* **Bass, Richard F., 2005k:60106** *and* **Chen, Xia[1] et al., 2005m:60050**
Salminen, Paavo *see* **Kozlova, Marina, 2005h:60277**
Sheriff, John *see* **Quastel, Jeremy et al., 2005a:60034**
Shi, Zhan *see* **Csáki, Endre et al., 2005f:60171** *and* **Hu, Yueyun, 2005g:60164**
Streit, Ludwig *see* **de Faria, Margarida et al., 2005i:60155**
Talarczyk, Anna *see* **Bojdecki, Tomasz et al., 2005j:60076**
Uemura, Hideaki Tanaka formula for multidimensional Brownian motions. (English summary) **2005e:60188**
Vives, Josep *see* **Eddahbi, M'hamed, 2005d:60058**
Xiang, Kai-nan *see* **Mytnik, L., 2005e:60196**
Yan, Litan Two inequalities for iterated stochastic integrals. (English summary) **2005h:60129**
Yor, Marc *see* **Csáki, Endre et al., 2005f:60171**

60J57 Multiplicative functionals

Items with secondary classifications in 60J57

Chen, Zhen-Qing Analytic characterization of conditional gaugeability for non-local Feynman-Kac transforms. (English summary) **2005c:60097**
— (*with* Fitzsimmons, Patrick J.; Takeda, Masayoshi; Ying, Jiangang; Zhang, Tu Sheng) Absolute continuity of symmetric Markov processes. (English summary) **2005g:60121**
Fitzsimmons, Patrick J. *see* **Chen, Zhen-Qing et al., 2005g:60121**
Getoor, Ronald Gauge theorems for Stieltjes exponentials. (English summary) **2005g:60118**
Lejay, Antoine An introduction to rough paths. (English summary) **2005e:60120**
Takeda, Masayoshi *see* **Chen, Zhen-Qing et al., 2005g:60121**
Ying, Jiangang *see* **Chen, Zhen-Qing et al., 2005g:60121**
Zhang, Tu Sheng *see* **Chen, Zhen-Qing et al., 2005g:60121**

60J60 Diffusion processes [see also 58J65]

Abundo, Mario Stopping a stochastic integral process as close as possible to the ultimate value of a functional. (English summary) **2005h:60242**
Ahmed, N. U. Impulsive stochastic evolution inclusions with multi valued diffusion. (English summary) (*see* **2005d:00012**)
Al'beverio, S. (*with* Kondrat'ev, Yu. G.; Röckner, Michael) Symmetrizing measures for infinite dimensional diffusions: an analytic approach. (English summary) **2005f:60167**
Aryasova, Olga V. (*with* Portenko, Mikola Ĭvanovich) Two-dimensional Brownian motion with membranes situated on the sides of an angle. (English summary) **2005h:60243**
Bakhtin, V. I. (*with* Kifer, Yuri) Diffusion approximation for slow motion in fully coupled averaging. (English summary) **2005m:60177**
Bal, Guillaume (*with* Chou, Tom) On the reconstruction of diffusions from first-exit time distributions. (English summary) **2005d:60127**
Ben-Ari, Iddo (*with* Pinsky, Ross G.) Absolute continuity/singularity and relative entropy properties for probability measures induced by diffusions on infinite time intervals. (English summary) **2005j:60145**
Bibby, Bo Martin (*with* Skovgaard, Ib Michael; Sørensen, Michael) Diffusion-type models with given marginal distribution and autocorrelation function. (English summary) **2005k:60249**
Boguslavskaya, E. V. On the optimization of long-term irreversible investments in a diffusion model. (Russian. Russian summary) **2005b:60208**
Botnikov, Yu. L. Davis-type inequalities for some diffusion processes. (Russian. English and Russian summaries) **2005j:60146**
Buonocore, Aniello (*with* Esposito, Giampiero; Giorno, V.; Valerio, C.) Towards dead time inclusion in neuronal modeling. (English summary) **2005a:60124**
Choi, Changsun (*with* Nam, Dougu) Interpolation for partly hidden diffusion processes. (English summary) **2005e:60176**
Chou, Tom *see* **Bal, Guillaume, 2005d:60127**
Dai Pra, Paolo (*with* Rœlly, S.) An existence result for infinite-dimensional Brownian diffusions with non-regular and non-Markovian drift. (English summary) **2005i:60150**
Debbasch, F. (*with* Moreau, Michel) Diffusion on a curved surface: a geometrical approach. (English summary) **2005i:60151**
Decamps, Marc *see* **Goovaerts, Marc J. et al., 2005a:60125**
Dereudre, D. (*with* Rœlly, S.) On Gibbsianness of infinite-dimensional diffusions. (English summary) **2005f:60168**
Dermoune, Azzouz (*with* Filali, Siham) Estimates of the transition density of a gas system. (English summary) **2005k:60250**
De Schepper, Ann *see* **Goovaerts, Marc J. et al., 2005a:60125**
Donati-Martin, Catherine (*with* Doumerc, Yan; Matsumoto, Hiroyuki[2]; Yor, Marc) Some properties of the Wishart processes and a matrix extension of the Hartman-Watson laws. (English summary) **2005k:60251**
Doumerc, Yan *see* **Donati-Martin, Catherine et al., 2005k:60251**
Dupoiron, K. (*with* Mathieu, Pierre[2]; San Martín, Jaime) Formule d'Itô pour des diffusions uniformément elliptiques, et processus de Dirichlet. (French summary) [Itô formula for uniformly elliptic diffusions and Dirichlet process] **2005e:60177**
Eckhoff, Michael Precise asymptotics of small eigenvalues of reversible diffusions in the metastable regime. (English summary) **2005k:60252**
Esposito, Giampiero *see* **Buonocore, Aniello et al., 2005a:60124**
Filali, Siham *see* **Dermoune, Azzouz, 2005k:60250**
Freĭdlin, Mark Iosifovich (*with* Wentzell, Alexander D.) Diffusion processes on an open book and the averaging principle. (English summary) **2005e:60178**
Fu, Zongfei (*with* Li, Zeng Hu) Measure-valued diffusions and stochastic equations with Poisson process. **2005k:60253**
Gao, Fu Qing *see* **Liu, Yong Hong, 2005i:60153**
Giorno, V. *see* **Buonocore, Aniello et al., 2005a:60124**
Gobet, Emmanuel (*with* Menozzi, Stéphane) Exact approximation rate of killed hypoelliptic diffusions using the discrete Euler scheme. (English summary) **2005d:60128**
Goovaerts, Marc J. (*with* De Schepper, Ann; Decamps, Marc) Closed-form approximations for diffusion densities: a path integral approach. (English summary) **2005a:60125**
Gorenflo, Rudolf (*with* Vivoli, Alessandro; Mainardi, Francesco) Discrete and continuous random walk models for space-time fractional diffusion. (English summary)
Grasman, Raoul P. P. P. *see* **Wagenmakers, Eric-Jan et al.**
Guyon, Xavier (*with* Iovleff, Serge; Yao, Jian-Feng) Linear diffusion with stationary switching regime. (English summary) **2005h:60244**
Handa, Kenji Reversible distributions of multi-allelic Gillespie-Sato diffusion models. (English summary) **2005i:60152**
Hartmann, Carsten *see* **Schütte, Christof et al.**
Herrmann, Samuel (*with* Scheutzow, Michael) Rate of convergence of some self-attracting diffusions. (English summary) **2005c:60102**
— (*with* Imkeller, Peter) The exit problem for diffusions with time-periodic drift and stochastic resonance. (English summary) **2005j:60147**
Huisinga, Wilhelm *see* **Schütte, Christof et al.**
Imkeller, Peter *see* **Herrmann, Samuel, 2005j:60147**
Iovleff, Serge *see* **Guyon, Xavier et al., 2005h:60244**
Khasminskiĭ, R. Z. (*with* Yin, Gang George) On averaging principles: an asymptotic expansion approach. (English summary) **2005h:60245**
Kifer, Yuri *see* **Bakhtin, V. I., 2005m:60177**
Kondrat'ev, Yu. G. *see* **Al'beverio, S. et al., 2005f:60167**
Kopytko, Bogdan I. (*with* Tsapovska, Zhanneta Ya.) Integral representation of an operator semigroup describing a diffusion process in a domain with general Wentzel's boundary condition. (English summary) **2005f:60169**
Koralov, Leonid Random perturbations of 2-dimensional Hamiltonian flows. (English summary) **2005e:60179**
Kou, S. C. (*with* Kou, S. G.) A diffusion model for growth stocks. (English summary) **2005g:60124**
Kou, S. G. *see* **Kou, S. C., 2005g:60124**
Krylov, Nicolai Quasiderivatives and interior smoothness of harmonic functions associated with degenerate diffusion processes. (English summary) **2005j:60148**
Lamberton, Damien (*with* Pagès, Gilles) Recursive computation of the invariant distribution of a diffusion: the case of a weakly mean reverting drift. (English summary) **2005b:60209**
Li, Bo[7] Critieria for regularity of elliptic diffusion processes. (English and Chinese summaries) **2005c:60103**
Li, Zeng Hu (*with* Shiga, Tokuzo; Tomisaki, Matsuyo) A conditional limit theorem for generalized diffusion processes. (English summary) **2005c:60104**
— *see also* **Fu, Zongfei, 2005k:60253**
Liang, Song A bounded property for gradients of diffusion semigroups on Euclidean spaces. (English summary) **2005k:60254**
Liu, Yong Hong (*with* Gao, Fu Qing) Quasi sure local Strassen's law of the iterated logarithm for diffusion processes. (Chinese. English and Chinese summaries) **2005i:60153**
Maglaras, Constantinos (*with* Zeevi, Assaf) Diffusion approximations for a multiclass Markovian service system with "guaranteed" and "best-effort" service levels. (English summary) **2005m:60178**
Mainardi, Francesco *see* **Gorenflo, Rudolf et al.**
Marchenko, M. A. Optimization and parallelization of statistical simulation of diffusion processes. (*see* **2005i:65006**)
Martínez, Servet A. (*with* San Martín, Jaime) Classification of killed one-dimensional diffusions. (English summary) **2005e:60180**
Mathieu, Pierre[2] *see* **Dupoiron, K. et al., 2005e:60177**
Matsumoto, Hiroyuki[2] *see* **Donati-Martin, Catherine et al., 2005k:60251**
Menozzi, Stéphane *see* **Gobet, Emmanuel, 2005d:60128**
Metz, Volker Self-similar fractals and self-similar energies. (English summary) **2005m:60179**
— The cone of diffusions on finitely ramified fractals. (English summary) **2005d:60129**
Molenaar, Peter C. M. *see* **Wagenmakers, Eric-Jan et al.**
Morato, Laura M. Some new conditions for the existence of singular non-symmetric diffusions. (English summary) **2005k:60255**
Moreau, Michel *see* **Debbasch, F., 2005i:60151**

Naber, Mark Distributed order fractional sub-diffusion. (English summary) **2005c:60105**
Nam, Dougu *see* **Choi, Changsun**, **2005e:60176**
Nguyen Van Thu Double-indexes Bessel diffusions. (*see* **2005d:00012**)
Osada, Hirofumi Non-collision and collision properties of Dyson's model in infinite dimension and other stochastic dynamics whose equilibrium states are determinantal random point fields. (English summary) **2005e:60181**
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Portenko, Mikola Ĭvanovich *see* **Aryasova, Olga V.**, **2005h:60243**
Posilicano, Andrea (*with* Ugolini, Stefania) Asymptotic flux across hypersurfaces for diffusion processes. (English summary) **2005j:60149**
— (*with* Zhang, Tu Sheng) Convergence of symmetric diffusions on Wiener spaces. (English summary) **2005b:60210**
Ramasubramanian, S. Diffusions and the martingale problem of Stroock and Varadhan. **2005a:60126**
Röckner, Michael *see* **Al'beverio, S. et al.**, **2005f:60167**
Rœlly, S. *see* **Dereudre, D.**, **2005f:60168** *and* **Dai Pra, Paolo**, **2005i:60150**
Russo, Francesco (*with* Trutnau, Gerald) About a construction and some analysis of time inhomogeneous diffusions on monotonely moving domains. (English summary) **2005k:60256**
Sacerdote, Laura (*with* Smith, Charles E.) Almost sure comparisons for first passage times of diffusion processes through boundaries. (English summary) **2005c:60106**
San Martín, Jaime *see* **Dupoiron, K. et al.**, **2005e:60177** *and* **Martínez, Servet A.**, **2005e:60180**
de Saporta, Benoîte (*with* Yao, Jian-Feng) Tail of a linear diffusion with Markov switching. (English summary) **2005k:60257**
Scheutzow, Michael *see* **Herrmann, Samuel**, **2005c:60102**
Schütte, Christof (*with* Walter, Jessika; Hartmann, Carsten; Huisinga, Wilhelm) An averaging principle for fast degrees of freedom exhibiting long-term correlations. (English summary)
Shen, Lian[3] On ballistic diffusions in random environment. (English and French summaries) **2005d:60130**
Shevchenko, Georgiĭ On multidimensional generalized diffusion processes. (Ukrainian. English and Ukrainian summaries) **2005d:60131**
Shiga, Tokuzo *see* **Li, Zeng Hu et al.**, **2005c:60104**
Skovgaard, Ib Michael *see* **Bibby, Bo Martin et al.**, **2005k:60249**
Ślęczka, Maciej Asymptotic stability in L^1 of a transport equation. (English summary) **2005j:60150**
Smith, Charles E. *see* **Sacerdote, Laura**, **2005c:60106**
Sørensen, Michael (*with* Uchida, Masayuki) Small-diffusion asymptotics for discretely sampled stochastic differential equations. (English summary) **2005b:60211**
— *see also* **Bibby, Bo Martin et al.**, **2005k:60249**
Swart, Jan M. Uniqueness for isotropic diffusions with a linear drift. (English summary) **2005b:60212**
Takahashi, Hiroshi[3] One-dimensional diffusion processes in semi-selfsimilar random environments. (English summary) **2005k:60258**
Tomisaki, Matsuyo *see* **Li, Zeng Hu et al.**, **2005c:60104**
Trutnau, Gerald *see* **Russo, Francesco**, **2005k:60256**
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Uchida, Masayuki *see* **Sørensen, Michael**, **2005b:60211**
Ugolini, Stefania *see* **Posilicano, Andrea**, **2005j:60149**
Vagurina, I. V. On diffusion processes that correspond to the hypergeometric equation. (Russian. English and Russian summaries) **2005g:60125**
Valerio, C. *see* **Buonocore, Aniello et al.**, **2005a:60124**
Villarroel, Javier On a solvable diffusion with time dependent "killing". (English summary) **2005b:60213**
Vivoli, Alessandro *see* **Gorenflo, Rudolf et al.**
Wagenmakers, Eric-Jan (*with* Grasman, Raoul P. P. P.; Molenaar, Peter C. M.) On the relation between the mean and the variance of a diffusion model response time distribution. (English summary)
Walter, Jessika *see* **Schütte, Christof et al.**
Wang, Ying Zhe Qualitative criterion for algebraic convergence of diffusion processes. (Chinese. English and Chinese summaries) **2005e:60182**
Wentzell, Alexander D. *see* **Freĭdlin, Mark Iosifovich**, **2005e:60178**
Xi, Fubao (*with* Zhao, Li Qin) Weak limits of empirical measures for a family of diffusion processes. (English summary) **2005f:60170**
— Stability of a random diffusion with nonlinear drift. (English summary) **2005k:60259**
Xu, Zhi Yan (*with* Zheng, Wei An) Sharp error estimate for maximum likelihood estimator of nonstationary diffusion processes. (English summary) **2005m:60180**
Yan, Litan (*with* Zhu, Bei) L^p-estimates on diffusion processes. (English summary) **2005m:60181**
Yao, Jian-Feng *see* **Guyon, Xavier et al.**, **2005h:60244** *and* **de Saporta, Benoîte**, **2005k:60257**
Yin, Gang George *see* **Khasminskii, R. Z.**, **2005h:60245**
Yor, Marc *see* **Donati-Martin, Catherine et al.**, **2005k:60251**
van Zanten, J. H. On empirical processes for ergodic diffusions and rates of convergence of M-estimators. (English summary) **2005c:60107**
Zeevi, Assaf *see* **Maglaras, Constantinos**, **2005m:60178**
Zhang, Fu-xi Coupled diffusion processes.
Zhang, Tu Sheng *see* **Posilicano, Andrea**, **2005b:60210**
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Zhu, Bei *see* **Yan, Litan**, **2005m:60181**

Items with secondary classifications in 60J60

Abdulla, Ugur G. First boundary value problem for the diffusion equation. I. Iterated logarithm test for the boundary regularity and solvability. (English summary) **2005c:35124**
Agrawal, Om Prakash Response of a diffusion-wave system subjected to deterministic and stochastic fields. (English summary) **2005d:35125**
Albanese, Claudio (*with* Kuznetsov, Alexey Evgenievich) Affine lattice models. (English summary) **2005k:60264**
Al'beverio, S. Theory of Dirichlet forms and applications. (English summary) **2005a:60120**
— (*with* Belopol'skaya, Ya. I.) Probabilistic approach to hydrodynamic equations. (English summary) **2005g:76096**
Alexopoulos, Georgios K. *see* **Lohoué, Noël**, **2005e:43019**
Alvarez, Luis H. R. Stochastic forest stand value and optimal timber harvesting. (English summary) **2005b:93159**
Antonelli, P. L. (*with* Zastawniak, Tomasz) Fundamentals of Finslerian diffusion with applications. **2005h:58063**
Applebaum, David ★ Lévy processes and stochastic calculus. **2005h:60003**
Arkin, Vadim I. (*with* Slastnikov, A. D.) Optimal stopping problem and investment models. (English summary) **2005e:60090**
Ata, Barış (*with* Harrison, J. Michael; Shepp, Larry A.) Drift rate control of a Brownian processing system. (English summary) **2005k:60265**
Avery, Richard (*with* Berman, Glenn) A note concerning a discrete two dimensional diffusion problem and random walks. (English summary) **2005c:39023**
Bally, Vlad (*with* Pagès, Gilles) A quantization algorithm for solving multi-dimensional discrete-time optimal stopping problems. (English summary) **2005f:60096**
Barthe, Franck (*with* Cordero-Erausquin, Dario) Inverse Brascamp-Lieb inequalities along the heat equation. (English summary) **2005i:52012**
Barton, N. H. (*with* Etheridge, Alison M.; Sturm, A. K.) Coalescence in a random background. (English summary) **2005e:60190**
Bassan, Bruno *see* **Ceci, Claudia**, **2005h:60120**
Baudoin, Fabrice Conditioning and initial enlargement of filtration on a Riemannian manifold. (English summary) **2005f:58070**
— The tangent space to a hypoelliptic diffusion and applications. (English summary) **2005k:60175**
Baxendale, Peter H. Stochastic averaging and asymptotic behavior of the stochastic Duffing-van der Pol equation. (English summary) **2005f:60130**
Becker-Kern, Peter (*with* Scheffler, Hans-Peter) On multiple-particle continuous-time random walks. **2005h:60231**
— (*with* Meerschaert, Mark M.; Scheffler, Hans-Peter) Limit theorem for continuous-time random walks with two time scales. (English summary) **2005f:60085**
Belopol'skaya, Ya. I. *see* **Al'beverio, S.**, **2005g:76096**
Ben Arous, Gérard (*with* Sortais, Michel) Large deviations in the Langevin dynamics of a short-range spin glass. (English summary) **2005d:60039**
Bendikov, A. D. (*with* Saloff-Coste, Laurent) Brownian motions on compact groups of infinite dimension. (English summary) **2005c:60007**
Benjamini, Itai (*with* Chen, Zhen-Qing; Rohde, Steffen) Boundary trace of reflecting Brownian motions. (English summary) **2005e:60183**
Berman, Glenn *see* **Avery, Richard**, **2005c:39023**
Blanco, Stéphane *see* **Jeanson, Raphaël et al.**
Bogachev, Vladimir I. (*with* Da Prato, Giuseppe; Röckner, Michael; Sobol, Zeev) Global gradient bounds for dissipative diffusion operators. (English and French summaries) **2005g:60117**
Borodin, A. N. (*with* Salminen, Paavo) On some exponential integral functionals of BM(μ) and BES(3). (English and Russian summaries) **2005h:60246**
Borovkov, K. A note on diffusion-type approximation to branching processes in random environments. (Russian summary) **2005a:60158**
Bouleau, Nicolas ★ Error calculus for finance and physics: the language of Dirichlet forms. **2005g:60003**
Bradley, James R. A Brownian approximation of a production-inventory system with a manufacturer that subcontracts. (English summary) **2005d:90057**
Buonocore, Aniello (*with* Di Crescenzo, Antonio; Martinucci, Barbara) A stochastic model for the rising phase of myosin head displacements along actin filaments. (English summary) (*see* **2005d:92001**)
Burnecki, Krzysztof (*with* Weron, Aleksander) Lévy stable processes. From stationary to self-similar dynamics and back. An application to finance. (English summary)
Byström, Johan (*with* Dasht, Johan; Wall, Peter) A numerical study of the convergence in stochastic homogenization. (English summary) **2005g:74101**
Ceci, Claudia (*with* Bassan, Bruno) Mixed optimal stopping and stochastic control problems with semicontinuous final reward for diffusion processes. (English summary) **2005h:60120**
Cerrai, Sandra (*with* Clément, Philippe) Schauder estimates for a class of second order elliptic operators on a cube. (English summary) **2005b:35052**
Chafaï, Djalil Glauber versus Kawasaki for spectral gap and logarithmic Sobolev inequalities of some unbounded conservative spin systems. (English summary) **2005b:60253**
— Entropies, convexity, and functional inequalities: on Φ-entropies and Φ-Sobolev inequalities. (English summary) **2005e:60170**
Chen, Mu-Fa Ten explicit criteria of one-dimensional processes. (English summary) **2005f:60156**
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Clément, Philippe *see* **Cerrai, Sandra**, **2005b:35052**
Cordero-Erausquin, Dario *see* **Barthe, Franck**, **2005i:52012**
Corradi, Valentina (*with* Swanson, Norman R.) Bootstrap specification tests for diffusion processes. (English summary) **2005h:62215**
Courteau, Josiane (*with* Lessard, Sabin) Sex ratio evolution through group selection using diffusion approximation. (English summary) **2005a:92041**
Cox, J. Theodore (*with* Dawson, Donald A.; Greven, Andreas) Mutually catalytic super branching random walks: large finite systems and renormalization analysis. (English summary) **2005k:60298**
Crisan, Dan Superprocesses in a Brownian environment. (English summary) **2005h:60306**
Dabo-Niang, Sophie Kernel density estimator in an infinite-dimensional space with a rate of convergence in the case of diffusion process. (English summary) **2005b:62082**
— Density estimation by orthogonal series in an infinite dimensional space: application to processes of diffusion type I. (English summary) **2005d:62065**
Dahl, Mikkel Stochastic mortality in life insurance: market reserves and mortality-linked insurance contracts. (English summary)
Da Prato, Giuseppe *see* **Bogachev, Vladimir I. et al.**, **2005g:60117**

Dasht, Johan *see* **Byström, Johan et al., 2005g:74101**
Dawson, Donald A. (*with* Gorostiza, Luis G.; Wakolbinger, Anton) Hierarchical equilibria of branching populations. (English summary) **2005i:60164**
— *see also* **Cox, J. Theodore et al., 2005k:60298**
Decamps, Marc (*with* De Schepper, Ann; Goovaerts, Marc J.) Applications of δ-function perturbation to the pricing of derivative securities. (English summary) **2005h:91103**
De La Peña, Victor H. (*with* McDonald, Patrick) Diffusions, exit time moments and Weierstrass theorems. (English summary) **2005b:60220**
Del Muto, Mauro (*with* Figà-Talamanca, Alessandro) Diffusion on locally compact ultrametric spaces. (English summary) **2005c:60004**
Deneubourg, Jean-Louis *see* **Jeanson, Raphaël et al.**
De Schepper, Ann *see* **Decamps, Marc et al., 2005h:91103**
Deuschel, Jean-Dominique The random walk representation for interacting diffusion processes. (English summary) **2005m:60230**
Di Crescenzo, Antonio *see* **Buonocore, Aniello et al., (2005d:92001)**
Djellout, H. (*with* Guillin, Arnaud; Wu, Li Ming[1]) Transportation cost-information inequalities and applications to random dynamical systems and diffusions. (English summary) **2005i:60031**
Dokuchaev, Nikolai (*with* Savkin, A. V.) Universal strategies for diffusion markets and possibility of asymptotic arbitrage. (English summary) **2005a:91058**
— Estimates for distances between first exit times via parabolic equations in unbounded cylinders. (English summary) **2005e:60084**
Dolbeault, Jean (*with* Illner, Reinhard) Entropy methods for kinetic models of traffic flow. (English summary) **2005f:90024**
Donati-Martin, Catherine (*with* Rouault, Alain; Yor, Marc; Zani, M.) Large deviations for squares of Bessel and Ornstein-Uhlenbeck processes. (English summary) **2005b:60064**
Doney, R. A. (*with* Zhang, Tu Sheng) Perturbed Skorohod equations and perturbed reflected diffusion processes. (English and French summaries) **2005m:60123**
Doukhan, Paul (*with* León, José R.) Asymptotics for the L^p-deviation of the variance estimator under diffusion. (English summary) **2005h:62219**
Dynkin, Eugene B. ★ Superdiffusions and positive solutions of nonlinear partial differential equations. **2005i:60004**
— A new inequality for superdiffusions and its applications to nonlinear differential equations. (English summary) **2005i:60129**
Ebrahimi, Nader System reliability based on diffusion models for fatigue crack growth. (English summary) **2005g:90033**
Ekström, Erik Properties of American option prices. (English summary) **2005h:60122**
Elworthy, K. David (*with* Le Jan, Yves; Li, Xue-Mei[2]) Equivariant diffusions on principal bundles. **2005g:58067**
Engländer, János An example and a conjecture concerning scaling limits of superdiffusions. (English summary) **2005a:60131**
— Large deviations for the growth rate of the support of supercritical super-Brownian motion. (English summary) **2005b:60224**
Etheridge, Alison M. *see* **Barton, N. H. et al., 2005e:60190**
Farnell, L. (*with* Gibson, W. G.) Monte Carlo simulation of diffusion in a spatially nonhomogeneous medium: correction to the Gaussian steplength. (English summary) **2005b:65005**
Field, Timothy R. (*with* Tough, Robert J. A.) Dynamical models of weak scattering. (English summary) **2005j:78026**
Figà-Talamanca, Alessandro *see* **Del Muto, Mauro, 2005c:60004**
Fleischmann, Klaus (*with* Swart, Jan M.) Trimmed trees and embedded particle systems. (English summary) **2005m:60190**
Fleming, Wendell H. Some optimal investment, production and consumption models. (English summary) (*see* **2005b:91010**)
Foryś, Urszula (*with* Kolev, Mikhail) Time delays in proliferation and apoptosis for solid avascular tumour. (English summary) **2005b:35148**
Fouque, Jean-Pierre (*with* Papanicolaou, George; Sircar, K. Ronnie; Sølna, Knut) Multiscale stochastic volatility asymptotics. (English summary) **2005b:91114**
— (*with* Papanicolaou, George; Sircar, K. Ronnie) Stochastic volatility and correction to the heat equation. (English summary) **2005m:60141**
Fourcassié, Vincent *see* **Jeanson, Raphaël et al.**
Fournier, Richard[2] *see* **Jeanson, Raphaël et al.**
Franke, Brice Integral inequalities for the fundamental solutions of diffusions on manifolds with divergence-free drift. (English summary) **2005e:58060**
Fukushima, Masatoshi (*with* He, Ping[2]; Ying, Jiangang) Time changes of symmetric diffusions and Feller measures. (English summary) **2005j:60143**
Gal'chuk, L. I. (*with* Pergamenshchikov, Sergeĭ) Nonparametric sequential estimation of the drift in diffusion processes via model selection. (English summary) **2005d:62132**
Gao, Jiti (*with* King, Maxwell L.) Adaptive testing in continuous-time diffusion models. (English summary) **2005i:62120**
Garrido, José *see* **Li, Shuanming, 2005k:60266**
Gibson, W. G. *see* **Farnell, L., 2005b:65005**
Giuli, Massimiliano (*with* Monte, Roberto) Diffusion processes in a financial market under heterogeneous trading and learning. (English summary) **2005k:91153**
Glasserman, Paul (*with* Merener, Nicolas) Convergence of a discretization scheme for jump-diffusion processes with state-dependent intensities. (English summary) **2005b:65008**
Gobet, Emmanuel (*with* Hoffmann, Marc; Reiß, Markus) Nonparametric estimation of scalar diffusions based on low frequency data. (English summary) **2005h:62220**
Goovaerts, Marc J. *see* **Decamps, Marc et al., 2005h:91103**
Gorostiza, Luis G. *see* **Dawson, Donald A. et al., 2005i:60164**
Greven, Andreas *see* **Cox, J. Theodore et al., 2005k:60298**
Gudowska-Nowak, Ewa (*with* Janik, Romuald A.; Jurkiewicz, Jerzy Władysław; Nowak, Maciej A.) Infinite products of large random matrices and matrix-valued diffusion. (English summary) **2005b:82043**
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Haken, Hermann ★ Synergetics. **2005a:00006**
Hanson, Floyd B. (*with* Westman, John J.; Zhu, Zongwu) Multinomial maximum likelihood estimation of market parameters for stock jump-diffusion models. (English summary) **2005g:60131**
Harrison, J. Michael *see* **Ata, Barış et al., 2005k:60265**
Haurie, Alain (*with* Moresino, F.; Vial, J.-Ph.) Singularly perturbed hybrid control systems approximated by structured linear programs. **2005b:93120**
He, Ping[2] *see* **Fukushima, Masatoshi et al., 2005j:60143**
Herrmann, Samuel (*with* Imkeller, Peter; Pavlyukevich, Ilya) Two mathematical approaches to stochastic resonance. (English summary) **2005k:82075**
Hirano, Katsuhiro On the maximum of a diffusion process in a random Lévy environment. **2005d:60159**
Hoffmann, Marc *see* **Gobet, Emmanuel et al., 2005h:62220**
Illner, Reinhard *see* **Dolbeault, Jean, 2005f:90024**
Imkeller, Peter (*with* Pavlyukevich, Ilya) Stochastic resonance: a comparative study of two-state models. (English summary) (*see* **2005f:60008**)
— *see also* **Herrmann, Samuel et al., 2005k:82075**
Irle, A. (*with* Paulsen, Volkert) Solving problems of optimal stopping with linear costs of observations. (English summary) **2005j:60087**
Istas, Jacques ★ Introduction aux modélisations mathématiques pour les sciences du vivant. (French) [Introduction to mathematical modelling for the life sciences] **2005j:60001**
Ivanov, Anatoliĭ Fedorovich (*with* Kazmerchuk, Y. I.; Svishchuk, A. V.) Theory, stochastic stability and applications of stochastic delay differential equations: a survey of results. (English summary) **2005e:60118**
Janik, Romuald A. (*with* Wieczorek, Waldemar) Multiplying unitary random matrices—universality and spectral properties. (English summary) **2005c:82038**
— *see also* **Gudowska-Nowak, Ewa et al., 2005b:82043**
Jeanson, Raphaël (*with* Blanco, Stéphane; Fournier, Richard[2]; Deneubourg, Jean-Louis; Fourcassié, Vincent; Theraulaz, Guy) A model of animal movements in a bounded space. (English summary)
Jian, Ji Gui (*with* Shen, Yi[2]; Liao, Xiao Xin) Strong stability in probability of partial variables in a stochastic linear system. (Chinese. English and Chinese summaries) **2005h:60167**
Jurkiewicz, Jerzy Władysław *see* **Gudowska-Nowak, Ewa et al., 2005b:82043**
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Kazmerchuk, Y. I. *see* **Ivanov, Anatoliĭ Fedorovich et al., 2005e:60118**
Kendall, Wilfrid S. (*with* Price, Catherine J.) Coupling iterated Kolmogorov diffusions. (English summary) **2005f:60175**
Kim, Jeong-Hoon Asymptotic theory of noncentered mixing stochastic differential equations. (English summary) **2005j:60117**
King, Maxwell L. *see* **Gao, Jiti, 2005i:62120**
Klimontovich, Yu. L. *see* **Kobelev, Ya. L. et al., 2005e:35129**
Kobelev, L. Ya. *see* **Kobelev, Ya. L. et al., 2005e:35129**
Kobelev, Ya. L. (*with* Kobelev, L. Ya.; Klimontovich, Yu. L.) Anomalous diffusion with memory that depends on time and coordinates. (Russian) **2005e:35129**
Kolev, Mikhail *see* **Foryś, Urszula, 2005b:35148**
Komorowski, Tomasz (*with* Widelski, P.) The existence of the effective diffusivity tensor for diffusions with incompressible mixing drifts. (English summary) **2005k:60107**
Kondrat'ev, Yu. G. (*with* Konstantinov, A. Yu.; Röckner, Michael) Uniqueness of diffusion generators for two types of particle systems with singular interactions. (English summary) **2005g:60163**
Konstantinov, A. Yu. *see* **Kondrat'ev, Yu. G. et al., 2005g:60163**
Korostelev, A. (*with* Korosteleva, Olga) Spread of branching diffusion: sharp asymptotics. (English summary) **2005i:60170**
Korosteleva, Olga The spread of branching diffusion under stabilizing drift. (English summary) **2005g:60132**
— *see also* **Korostelev, A., 2005i:60170**
Kouritzin, Michael A. (*with* Long, Hongwei; Sun, Wei[3]) Nonlinear filtering for diffusions in random environments. (English summary) **2005a:60161**
— (*with* Sun, Wei[3]; Xiong, Jie) Nonlinear filtering for reflecting diffusions in random environments via nonparametric estimation. (English summary) **2005j:60186**
Kramer, Peter R. (*with* Majda, Andrew J.) Stochastic mode reduction for the immersed boundary method. (English summary) **2005c:60085**
— (*with* Majda, Andrew J.) Stochastic mode reduction for particle-based simulation methods for complex microfluid systems. (English summary) **2005c:60086**
Krylov, Nicolai (*with* Röckner, Michael) Strong solutions of stochastic equations with singular time dependent drift. (English summary) **2005k:60209**
Kulik, A. M. The optimal coupling property and its applications: limit theorem for non-elliptic diffusions and construction of canonical stochastic flow. (English summary) **2005g:60115**
Kumagai, Takashi Homogenization on finitely ramified fractals. (English summary) **2005h:60102**
— *see also* **Morita, Yasuo** *and* **Osada, Hirofumi**
Kusuoka, Shigeo Approximation of expectation of diffusion processes based on Lie algebra and Malliavin calculus. (English summary) **2005h:60124**
Kutoyants, Yurii On parameter estimation by contaminated observations of ergodic diffusion processes. (English summary) **2005e:62116**
Kuwae, Kazuhiro Conservativeness of diffusion processes with drift. (English summary) **2005b:60206**
Kuznetsov, Alexey Evgenievich *see* **Albanese, Claudio, 2005k:60264**
Lanconelli, Alberto (*with* Proske, Frank) On explicit strong solution of Itô-SDE's and the Donsker delta function of a diffusion. (English summary) **2005h:60186**
Léandre, Rémi Hypoelliptic diffusions and cyclic cohomology. (English summary) **2005f:58072**
Lefebvre, Mario (*with* Guilbault, Jean-Luc) Hitting place probabilities for two-dimensional diffusion processes. (English summary) **2005e:60191**
(Le Gall, Jean-François) *see* **Dynkin, Eugene B., 2005i:60004**
Le Jan, Yves *see* **Elworthy, K. David et al., 2005g:58067**
Lejay, Antoine A probabilistic representation of the solution of some quasi-linear PDE with a divergence form operator. Application to existence of weak solutions of FBSDE. (English summary) **2005f:60133**

León, José R. *see* **Doukhan, Paul**, 2005h:62219
Lessard, Sabin *see* **Courteau, Josiane**, 2005a:92041
Li, Shang You (*with* Zhang, Chun Sheng; Wu, Rong[1]) Ruin estimates of diffusion models under constant interest rate. (Chinese. English and Chinese summaries) **2005f:60153**
Li, Shuanming (*with* Garrido, José) The Gerber-Shiu function in a Sparre Andersen risk process perturbed by diffusion. (English summary) **2005k:60266**
Li, Xue-Mei[2] *see* **Elworthy, K. David et al.**, 2005g:58067
Liao, Xiao Xin *see* **Jian, Ji Gui et al.**, 2005h:60167
Linetsky, Vadim The spectral representation of Bessel processes with constant drift: applications in queueing and finance. (English summary) **2005d:60123**
— On the transition densities for reflected diffusions. (English summary)
Löbus, Jörg-Uwe A class of processes on the path space over a compact Riemannian manifold with unbounded diffusion. (English summary) **2005e:58061**
Löcherbach, Eva Smoothness of the intensity measure density for interacting branching diffusions with immigrations. (English summary) **2005h:60162**
Lohoué, Noël (*with* Alexopoulos, Georgios K.) On the large time behavior of heat kernels on Lie groups. (English summary) **2005e:43019**
Long, Hongwei (*with* Simão, Isabel) Essential self-adjointness of Ornstein-Uhlenbeck operators perturbed by certain drifts and singular potentials. (English summary) **2005g:47045**
— (*with* Simão, Isabel) A note on the essential self-adjointness of Ornstein-Uhlenbeck operators perturbed by a dissipative drift and a potential. (English summary) **2005f:47112**
— *see also* **Kouritzin, Michael A. et al.**, 2005a:60161
Lu, Yu Hua (*with* Wu, Rong[1]) Premium formulae for a classical risk model perturbed by diffusion in an economic environment. (Chinese. English and Chinese summaries) **2005k:91187**
Magan, Rahul V. (*with* Sureshkumar, Radhakrishna) A multiscale-linking algorithm for the simulation of irreversible deposition. (English summary) **2005h:82104**
Mainardi, Francesco (*with* Pagnini, Gianni; Saxena, Ram Kishore) Fox H functions in fractional diffusion. (English summary) **2005m:26008**
Majda, Andrew J. *see* **Kramer, Peter R.**, 2005c:60085 *and* 2005c:60086
Mao, Yong Hua Nash inequalities for Markov processes in dimension one [MR1894847 (2002m:60145)]. (Chinese. English and Chinese summaries)
Martinucci, Barbara *see* **Buonocore, Aniello et al.**, (2005d:92001)
Matsumoto, Hiroyuki[2] (*with* Ogura, Yukio) Markov or non-Markov property of $cM - X$ processes. (English summary) **2005b:60217**
Matsumoto, Toshitaka (*with* Oharu, Shinnosuke; Tanaka, Naoki) Time-dependent nonlinear perturbations of analytic and integrated semigroups. (English summary) **2005f:47101**
McDonald, Patrick *see* **De La Peña, Victor H.**, 2005b:60220
McKean, Henry P. Turbulence without pressure: existence of the invariant measure. (English summary) **2005d:76023**
Meerschaert, Mark M. (*with* Scheffler, Hans-Peter) Limit theorems for continuous time random walks with slowly varying waiting times. (English summary) **2005k:60110**
— *see also* **Becker-Kern, Peter et al.**, 2005f:60085
Merener, Nicolas *see* **Glasserman, Paul**, 2005b:65008
Metz, Volker A note on the diamond fractal. (English summary) **2005e:60174**
Mitter, Sanjoy K. (*with* Newton, Nigel J.) A variational approach to nonlinear estimation. (English summary) **2005a:62078**
Monte, Roberto *see* **Giuli, Massimiliano**, 2005k:91153
Morales, Domingo *see* **Rivas, M. J. et al.**, 2005g:62141
Moresino, F. *see* **Haurie, Alain et al.**, 2005b:93120
Morita, Yasuo Award of the Spring 2004 prize of the Mathematical Society of Japan to Takashi Kumagai for his work on "Research on stochastic processes on fractals". (Japanese)
Newton, Nigel J. *see* **Mitter, Sanjoy K.**, 2005a:62078
Nonnenmacher, Stéphane Spectral properties of noisy classical and quantum propagators. (English summary) **2005h:81138**
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Nowak, Maciej A. *see* **Gudowska-Nowak, Ewa et al.**, 2005b:82043
Ogura, Yukio *see* **Matsumoto, Hiroyuki[2]**, 2005b:60217
Oharu, Shinnosuke *see* **Matsumoto, Toshitaka et al.**, 2005f:47101
Osada, Hirofumi The work of Takashi Kumagai—Research on diffusion processes on fractals. (Japanese)
Oshima, Yoichi Time-dependent Dirichlet forms and related stochastic calculus. (English summary) **2005e:60175**
Pagès, Gilles *see* **Bally, Vlad**, 2005f:60096
Pagnini, Gianni *see* **Mainardi, Francesco et al.**, 2005m:26008
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Pavlyukevich, Ilya *see* **Herrmann, Samuel et al.**, 2005k:82075 *and* **Imkeller, Peter**, (2005f:60008)
Pedersen, Jesper Lund Optimal stopping problems for time-homogeneous diffusions: a review. (English summary) (*see* 2005f:60007)
Pergamenshchikov, Sergeĭ *see* **Gal'chuk, L. I.**, 2005d:62132
Price, Catherine J. *see* **Kendall, Wilfrid S.**, 2005f:60175
(Prokhorov, Yurīĭ Vasil'evich) *see* **Skorokhod, Anatolii V.**, 2005i:60002
Proske, Frank *see* **Lanconelli, Alberto**, 2005h:60186
Pukhal'skiĭ, A. A. On some degenerate large deviation problems. (English summary) **2005i:60045**
Qian, Xiao Song Changes of probability measure and option pricing in jump-diffusion models. (Chinese. English and Chinese summaries) **2005e:60192**
Quenez, Marie-Claire Optimal portfolio in a multiple-priors model. (English summary) **2005h:91116**
Reiß, Markus *see* **Gobet, Emmanuel et al.**, 2005h:62220
Richards, Donald St. P. Algebraic methods toward higher-order probability inequalities. II. (English summary) **2005d:60034**
Rivas, M. J. (*with* Santos-Martín, M. T.; Morales, Domingo) Rényi test statistics for partially observed diffusion processes. (English summary) **2005g:62141**
Röckner, Michael (*with* Wang, Feng Yu) Supercontractivity and ultracontractivity for (non-symmetric) diffusion semigroups on manifolds. (English summary) **2005b:58059**
— *see also* **Bogachev, Vladimir I. et al.**, 2005g:60117; **Kondrat'ev, Yu. G. et al.**, 2005g:60163 *and* **Krylov, Nicolai**, 2005k:60209
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Roman, H. Eduardo How does the diffusion equation on fractals look? (English summary) **2005b:35162**
Rößler, Andreas Stochastic Taylor expansions for the expectation of functionals of diffusion processes. (English summary) **2005m:60151**
Rouault, Alain *see* **Donati-Martin, Catherine et al.**, 2005b:60064
Sacerdote, Laura (*with* Sirovich, Roberta) A Wiener process with inverse Gaussian time distributed jumps as a model for neuronal activity. (English summary) (*see* **2005d:92001**)
Salminen, Paavo *see* **Borodin, A. N.**, 2005h:60246
Saloff-Coste, Laurent *see* **Bendikov, A. D.**, 2005c:60007
Santos-Martín, M. T. *see* **Rivas, M. J. et al.**, 2005g:62141
Saphores, Jean-Daniel M. The density of bounded diffusions. (English summary)
Savkin, A. V. *see* **Dokuchaev, Nikolai**, 2005a:91058
Saxena, Ram Kishore *see* **Mainardi, Francesco et al.**, 2005m:26008
Saxena, Ravi K. (*with* Nonnenmacher, Theo F.) Application of the H-function in Markovian and non-Markovian chain models. (English summary)
Scheffler, Hans-Peter *see* **Becker-Kern, Peter et al.**, 2005f:60085; 2005h:60231 *and* **Meerschaert, Mark M.**, 2005k:60110
(Seckler, B. D.) *see* **Skorokhod, Anatolii V.**, 2005i:60002
Shcherbakov, Vadim Stochastic model of trend dynamics and a density dependent population process with discontinuity. (English summary) **2005a:60119**
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Sircar, K. Ronnie *see* **Fouque, Jean-Pierre et al.**, 2005b:91114 *and* 2005m:60141
Sirovich, Roberta *see* **Sacerdote, Laura**, (2005d:92001)
Skorokhod, Anatolii V. ★ Basic principles and applications of probability theory. **2005i:60002**
Slastnikov, A. D. *see* **Arkin, Vadim I.**, 2005e:60090
Sobol, Zeev *see* **Bogachev, Vladimir I. et al.**, 2005g:60117
Sølna, Knut *see* **Fouque, Jean-Pierre et al.**, 2005b:91114
Song, Renming Sharp bounds on the density, Green function and jumping function of subordinate killed BM. (English summary) **2005c:60099**
Sortais, Michel *see* **Ben Arous, Gérard**, 2005d:60039
Stannat, Wilhelm Time-dependent diffusion operators on L^1. (English summary) **2005h:35201**
Stolyar, A. L. Maxweight scheduling in a generalized switch: state space collapse and workload minimization in heavy traffic. (English summary) **2005a:60151**
Sturm, A. K. *see* **Barton, N. H. et al.**, 2005e:60190
Sun, Wei[3] *see* **Kouritzin, Michael A. et al.**, 2005a:60161 *and* 2005j:60186
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Swanson, Norman R. *see* **Corradi, Valentina**, 2005b:62215
Swart, Jan M. *see* **Fleischmann, Klaus**, 2005m:60190
Takahashi, Hiroshi[3] Recurrence and transience of multi-dimensional diffusion processes in reflected Brownian environments. (English summary) **2005h:60311**
Tanaka, Hiroshi[1] Lévy processes conditioned to stay positive and diffusions in random environments. (English summary) **2005e:60240**
Tanaka, Naoki *see* **Matsumoto, Toshitaka et al.**, 2005f:47101
Tavaré, Simon Ancestral inference in population genetics. **2005i:62155**
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Thomassen, L. (*with* Van Wouwe, M.) The influence of a stochastic interest rate on the n-fold compound option. (English summary) **2005e:91094**
Tough, Robert J. A. *see* **Field, Timothy R.**, 2005j:78026
Turban, L. Reaction-diffusion with a time-dependent reaction rate: the single-species diffusion-annihilation process. (English summary) **2005d:82116**
Uchida, Masayuki Estimation for dynamical systems with small noise from discrete observations. (English summary) **2005c:62143**
Van Wouwe, M. *see* **Thomassen, L.**, 2005e:91094
(Verbitskiĭ, I. È.) *see* **Dynkin, Eugene B.**, 2005i:60004
Vial, J.-Ph. *see* **Haurie, Alain et al.**, 2005b:93120
Villarroel, Javier On a stochastic interest rate model for bonds. (English summary)
Wakolbinger, Anton *see* **Dawson, Donald A. et al.**, 2005i:60164
Wall, Peter *see* **Byström, Johan et al.**, 2005g:74101
Wang, Feng Yu L^1-convergence and hypercontractivity of diffusion semigroups on manifolds. (English summary) **2005c:47062**
— *see also* **Röckner, Michael**, 2005b:58059
Wang, Xia[3] (*with* Yang, Xiao Hua) Approximation result for SDE with non-Lipschitz coefficients. (English and Chinese summaries) **2005k:60217**
Wang, Ying Zhe Algebraic convergence of diffusion processes on a real line. (Chinese. English and Chinese summaries) **2005h:60237**
Weron, Aleksander *see* **Burnecki, Krzysztof**
Westman, John J. *see* **Hanson, Floyd B. et al.**, 2005g:60131
Whitt, Ward A diffusion approximation for the $G/GI/n/m$ queue. (English summary) **2005k:90018**
Widelski, P. *see* **Komorowski, Tomasz**, 2005k:60107
Wieczorek, Waldemar *see* **Janik, Romuald A.**, 2005c:82038
Wu, Li Ming[1] *see* **Djellout, H. et al.**, 2005i:60031
Wu, Rong[1] *see* **Li, Shang You et al.**, 2005f:60153 *and* **Lu, Yu Hua**, 2005k:91187
Wybraniec, Jacek The range of American contingent claims prices in the jump-diffusion model. (English summary) **2005b:91137**
Xiong, Jie *see* **Kouritzin, Michael A. et al.**, 2005j:60186
Yang, Hailiang *see* **Yin, Gang George**, 2005g:60167
Yang, Xiao Hua *see* **Wang, Xia[3]**, 2005k:60217
Yano, Yuko A remark on the asymptotic behavior of subordinators. (English summary) **2005b:60123**

Yin, Chuan Cun (*with* Chiu, S. N.) A diffusion perturbed risk process with stochastic return on investments. (English summary) **2005d:91072**
Yin, Gang George (*with* Yang, Hailiang) Two-time-scale jump-diffusion models with Markovian switching regimes. (English summary) **2005g:60167**
Ying, Jiangang *see* **Fukushima, Masatoshi et al., 2005j:60143**
Yoo, Hyun Jae Dirichlet forms and diffusion processes for fermion random point fields. (English summary) **2005k:60311**
Yor, Marc *see* **Donati-Martin, Catherine et al., 2005b:60064**
Zaitseva, Ludmila L. On a multidimensional Brownian motion with partly reflecting membrane on a hyperplane. (English summary) **2005i:60077**
Zani, M. *see* **Donati-Martin, Catherine et al., 2005b:60064**
Zastawniak, Tomasz *see* **Antonelli, P. L., 2005h:58063**
Zhang, Chun Sheng *see* **Li, Shang You et al., 2005f:60153**
Zhang, Tu Sheng *see* **Doney, R. A., 2005m:60123**
Zhu, Zongwu *see* **Hanson, Floyd B. et al., 2005g:60131**

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Bahram, Abdelkader Increments of the principal value of Brownian motion local time. (English summary)
Bañuelos, Rodrigo (*with* Pang, Michael; Pascu, Mihai N.) Brownian motion with killing and reflection and the "hot-spots" problem. (English summary) **2005j:60151**
— (*with* Carroll, Thomas Finbarr) Sharp integrability for Brownian motion in parabola-shaped regions. (English summary) **2005j:60152**
Benjamini, Itai (*with* Chen, Zhen-Qing; Rohde, Steffen) Boundary trace of reflecting Brownian motions. (English summary) **2005e:60183**
Bertoin, Jean (*with* Chaumont, Loïc; Pitman, Jim) Path transformations of first passage bridges. (English summary) **2005d:60132**
Betz, Volker (*with* Spohn, Herbert) A central limit theorem for Gibbs measures relative to Brownian motion. (English summary) **2005k:60260**
Bojdecki, Tomasz (*with* Gorostiza, Luis G.) Occupation times of Brownian segments and the σ-finite Wiener measure. (English summary) **2005m:60182**
Borodin, A. N. (*with* Salminen, Paavo) On some exponential integral functionals of BM(μ) and BES(3). (English and Russian summaries) **2005h:60246**
Burdzy, Krzysztof (*with* Chen, Zhen-Qing; Sylvester, John) The heat equation and reflected Brownian motion in time-dependent domains. II. Singularities of solutions. (English summary) **2005a:60127**
— (*with* Kaspi, Haya) Lenses in skew Brownian flow. (English summary) **2005j:60153**
Carbone, Raffaella Binomial approximation of Brownian motion and its maximum. (English summary) **2005h:60247**
Carroll, Thomas Finbarr *see* **Bañuelos, Rodrigo, 2005j:60152**
Chang, Seung Jun (*with* Choi, Jae Gil) Conditional generalized Fourier-Feynman transform and conditional convolution product on a Banach algebra. (English summary) **2005e:60184**
— (*with* Choi, Jae Gil) Multiple L_p analytic generalized Fourier-Feynman transform on the Banach algebra. (English summary) **2005a:60128**
— (*with* Choi, Jae Gil; Skoug, David) Parts formulas involving conditional generalized Feynman integrals and conditional generalized Fourier-Feynman transforms on function space. (English summary) **2005i:60154**
Chaumont, Loïc *see* **Bertoin, Jean et al., 2005d:60132**
Chen, Xia[1] (*with* Li, Wenbo V.) Limiting behaviors for Brownian motion reflected on Brownian motion. (English summary) **2005d:60133**
Chen, Zhen Long (*with* Xu, Ci Wen) Uniform dimension of image set of N-parameter d-dimension generalized Wiener process. (Chinese. English and Chinese summaries) **2005b:60214**
Chen, Zhen-Qing *see* **Burdzy, Krzysztof et al., 2005a:60127** *and* **Benjamini, Itai et al., 2005e:60183**
Choi, Jae Gil *see* **Chang, Seung Jun et al., 2005a:60128**; **2005e:60184** *and* **2005i:60154**
Cox, A. M. G. (*with* Hobson, D. G.) An optimal Skorokhod embedding for diffusions. (English summary) **2005a:60129**
Csáki, Endre (*with* Shi, Zhan; Yor, Marc) Fractional Brownian motions as "higher-order" fractional derivatives of Brownian local times. (English summary) **2005f:60171**
Dall'Acqua, Anna (*with* Grunau, Hans-Christoph; Sweers, G. H.) On a conditioned Brownian motion and a maximum principle on the disk. (English summary) **2005m:60183**
D'Aristotile, Anthony (*with* Diaconis, Persi; Newman, Charles M.) Brownian motion and the classical groups. (English summary) **2005e:60185**
DeBlassie, Richard Dante Iterated Brownian motion in an open set. (English summary) **2005f:60172**
— (*with* Smits, Robert) Brownian motion in twisted domains. (English summary) **2005m:60184**
Decreusefond, Laurent (*with* Savy, Nicolas) Filtered Brownian motions as weak limit of filtered Poisson processes. (English summary) **2005j:60154**
De La Peña, Victor H. (*with* McDonald, Patrick) Diffusions, exit time moments and Weierstrass theorems. (English summary) **2005b:60220**
Dembo, Amir (*with* Peres, Yuval; Rosen, Jay; Zeitouni, Ofer) Cover times for Brownian motion and random walks in two dimensions. (English summary) **2005k:60261**
Diaconis, Persi *see* **D'Aristotile, Anthony et al., 2005e:60185**
Dufresne, Daniel The log-normal approximation in financial and other computations. (English summary) **2005g:60126**
Engländer, János (*with* den Hollander, Frank) Survival asymptotics for branching Brownian motion in a Poissonian trap field. (English summary) **2005e:60186**
de Faria, Margarida (*with* Rezgui, Anis; Streit, Ludwig) Martingale approximation for self-intersection local time of Brownian motion. (English summary) **2005i:60155**
Gorostiza, Luis G. *see* **Bojdecki, Tomasz, 2005m:60182**
Grigorescu, Ilie (*with* Kang, Min) Path collapse for multidimensional Brownian motion with rebirth. (English summary) **2005j:60155**
Grunau, Hans-Christoph *see* **Dall'Acqua, Anna et al., 2005m:60183**
Hamana, Yuji Limit theorems for the Wiener sausage [translation of Sūgaku **54** (2002), no. 2, 147–166; MR1911910 (2004e:60139)]. (*see* **2005j:00022**)
Hariya, Yuu (*with* Yor, Marc) On an extension of Dufresne's relation between exponential Brownian functionals from opposite drifts to two different drifts: a short proof. (English summary) **2005g:60127**
Hobson, D. G. *see* **Cox, A. M. G., 2005a:60129**
den Hollander, Frank *see* **Engländer, János, 2005e:60186**
Hörfelt, Per Geometric bounds on certain sublinear functionals of geometric Brownian motion. (English summary) **2005b:60215**
Hou, Li Ying The hitting distribution of a strip for planar Brownian motion. (Chinese. English and Chinese summaries)
Houdré, Christian (*with* Privault, Nicolas) A concentration inequality on Riemannian path space. (English summary) **2005f:60173**
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Jin, Meng Wei *see* **Zhang, Huizeng et al., 2005g:60129**
Jones, Peter Wilcox (*with* Müller, P. F. X.) Conditioned Brownian motion and multipliers into SL^∞. **2005c:60108**
Jumarie, Guy Fractional Brownian motions via random walk in the complex plane and via fractional derivative. Comparison and further results on their Fokker-Planck equations. (English summary) **2005f:60174**
Kang, Min *see* **Grigorescu, Ilie, 2005j:60155**
Kaspi, Haya *see* **Burdzy, Krzysztof, 2005j:60153**
Kendall, Wilfrid S. (*with* Price, Catherine J.) Coupling iterated Kolmogorov diffusions. (English summary) **2005f:60175**
Kim, Kyounghee Moment generating function of the reciprocal of an integral of geometric Brownian motion. (English summary) **2005b:60216**
Kim, Yoon Tae (*with* Park, Hyun Suk; Jeon, Jong Woo) The expansion of mean distance of Brownian motion on Riemannian manifold. (English summary) **2005c:60109**
Knight, F. B. (*with* Steichen, J. L.) An interference problem with application to crystal growth. (English summary) **2005h:60248**
Kong, Xiang-zhong *see* **Lu, Yu Hua et al.**
Kozhan, D. P. *see* **Solodyannikov, Yu. V., 2005k:60263**
Lachal, Aimé Application de la théorie des excursions à l'intégrale du mouvement brownien. (English and French summaries) [Application of the theory of excursions to the integral of Brownian motion] **2005g:60128**
Lawler, Gregory F. (*with* Werner, Wendelin) The Brownian loop soup. (English summary) **2005f:60176**
Lee, Hangsuck A joint distribution of two-dimensional Brownian motion with an application to an outside barrier option. (English summary) **2005f:60177**
Lee, Yuh-Jia (*with* Huang, Chen-Chih) Itô formula for generalized functionals of Brownian bridge. (English summary) **2005k:60262**
Li, Wenbo V. *see* **Chen, Xia[1], 2005d:60133**
Linetsky, Vadim Spectral expansions for Asian (average price) options. (English summary) **2005i:60156**
Lu, Yu Hua (*with* Xu, Run; Kong, Xiang-zhong) Ruin probabilities and the distribution of maximal value in geometric Brownian motion model for assets and liabilities. (English and Chinese summaries)
Matsumoto, Hiroyuki[2] (*with* Ogura, Yukio) Markov or non-Markov property of $cM - X$ processes. (English summary) **2005b:60217**
McDonald, Patrick *see* **De La Peña, Victor H., 2005b:60220**
Meilijson, Isaac Stochastic orders and stopping times in Brownian motion. **2005a:60130**
Mörters, Peter A pathwise version of Spitzer's law. (English summary) **2005b:60218**
— Intersection exponents and the multifractal spectrum for measures on Brownian paths. (English summary) **2005i:60157**
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Park, Hyun Suk *see* **Kim, Yoon Tae et al., 2005c:60109**
Pascu, Mihai N. *see* **Bañuelos, Rodrigo et al., 2005j:60151**
Peccati, Giovanni Anticipative stochastic integration based on time-space chaos. (English summary) **2005f:60178**
Peres, Yuval *see* **Dembo, Amir et al., 2005k:60261**
Perry, David (*with* Stadje, Wolfgang; Zacks, Shelemyahu) The first rendezvous time of Brownian motion and compound Poisson-type processes. (English summary) **2005m:60185**
Pitman, Jim *see* **Bertoin, Jean et al., 2005d:60132**
Price, Catherine J. *see* **Kendall, Wilfrid S., 2005f:60175**
Privault, Nicolas *see* **Houdré, Christian, 2005f:60173**
von Renesse, Max-K. Intrinsic coupling on Riemannian manifolds and polyhedra. (English summary) **2005i:60158**
Rezgui, Anis *see* **de Faria, Margarida et al., 2005i:60155**
Rohde, Steffen *see* **Benjamini, Itai et al., 2005e:60183**
Rosen, Jay *see* **Dembo, Amir et al., 2005k:60261**
Roynette, Bernard (*with* Vallois, Pierre; Yor, Marc) Limiting laws associated with Brownian motion perturbated by normalized exponential weights. (English and French summaries) **2005e:60187**
Salminen, Paavo *see* **Borodin, A. N., 2005h:60246**
Savy, Nicolas *see* **Decreusefond, Laurent, 2005j:60154**
Shi, Zhan *see* **Csáki, Endre et al., 2005f:60171**
Skoug, David *see* **Chang, Seung Jun et al., 2005i:60154**
Smits, Robert *see* **DeBlassie, Richard Dante, 2005m:60184**
Solodyannikov, Yu. V. (*with* Kozhan, D. P.) Computation of distributions of some functionals of Wiener processes. (Russian. English and Russian summaries) **2005k:60263**
Spohn, Herbert *see* **Betz, Volker, 2005k:60260**
Stadje, Wolfgang *see* **Perry, David et al., 2005m:60185**
Steichen, J. L. *see* **Knight, F. B., 2005h:60248**
Streit, Ludwig *see* **de Faria, Margarida et al., 2005i:60155**

Sweers, G. H. *see* **Dall'Acqua, Anna et al., 2005m:60183**
Sylvester, John *see* **Burdzy, Krzysztof et al., 2005a:60127**
Tang, Li[1] (*with* Yang, Wen Sheng) Probabilistic methods for numerical solutions of exterior Dirichlet problems. (Chinese. English and Chinese summaries)
Tongring, Nils An elementary definition of Brownian motion in Hilbert space. **2005m:60186**
Uemura, Hideaki Tanaka formula for multidimensional Brownian motions. (English summary) **2005e:60188**
Vallois, Pierre *see* **Roynette, Bernard et al., 2005e:60187**
Wang, Liang Xi (*with* Pan, Gao Tian; Xue, Meng Jun) An elementary research on non-stationary process power spectral density function. (Chinese. English and Chinese summaries) **2005e:60189**
Werner, Wendelin SLEs as boundaries of clusters of Brownian loops. (English and French summaries) **2005b:60221**
— *see also* **Lawler, Gregory F., 2005f:60176**
Xiong, Jie (*with* Zhou, Xiao Wen) On the duality between coalescing Brownian motions. (English summary) **2005m:60187**
Xu, Ci Wen *see* **Chen, Zhen Long, 2005b:60214**
Xu, Run *see* **Lu, Yu Hua et al.**
Xue, Meng Jun *see* **Wang, Liang Xi et al., 2005e:60189**
Yang, Wen Sheng *see* **Tang, Li**[1]
Ying, Jiangang *see* **Zhang, Huizeng et al., 2005g:60129**
Yor, Marc *see* **Roynette, Bernard et al., 2005e:60187**; **Csáki, Endre et al., 2005f:60171** *and* **Hariya, Yuu, 2005g:60127**
Zacks, Shelemyahu *see* **Perry, David et al., 2005m:60185**
Zbăganu, Gheorghiţă A new inequality with applications in measure and information theories. (English summary) **2005b:60222**
Zeitouni, Ofer *see* **Dembo, Amir et al., 2005k:60261**
Zhang, Huizeng (*with* Jin, Meng Wei; Ying, Jiangang) Exit distribution leaving a ball from the center and Brownian motion. (English summary) **2005g:60129**
Zhou, Xiao Wen *see* **Xiong, Jie, 2005m:60187**

Items with secondary classifications in 60J65

Adioui, M. *see* **El Saadi, N. et al., (2005m:00007)**
Airault, Hélène Stochastic analysis on finite dimensional Siegel disks, approach to the infinite dimensional Siegel disk and upper half-plane. (English summary) **2005j:60108**
— (*with* Malliavin, Paul; Thalmaier, Anton) Canonical Brownian motion on the space of univalent functions and resolution of Beltrami equations by a continuity method along stochastic flows. (English and French summaries) **2005i:58044**
Aita, Takuyo (*with* Husimi, Yuzuru) Thermodynamical interpretation of an adaptive walk on a Mt. Fuji-type fitness landscape: Einstein relation-like formula holds in a stochastic evolution. (English summary)
Aldous, David J. (*with* Miermont, Grégory; Pitman, Jim) Brownian bridge asymptotics for random p-mappings. (English summary) **2005b:60014**
Alili, Larbi (*with* Patie, Pierre) On the first crossing times of a Brownian motion and a family of continuous curves. (English and French summaries)
Anh, V. V. *see* **Liu, Fa Wang et al., 2005b:65102**
Applebaum, David ★ Lévy processes and stochastic calculus. **2005h:60003**
Arino, Ovide *see* **El Saadi, N. et al., (2005m:00007)**
Arkin, Vadim I. (*with* Slastnikov, A. D.) Optimal stopping problem and investment models. (English summary) **2005e:60090**
Bass, Richard F. (*with* Horák, Jiří; McKenna, Patrick J.) On the lift-off constant for elastically supported plates. (English summary) **2005f:35074**
— (*with* Burdzy, Krzysztof; Chen, Zhen-Qing) Uniqueness for reflecting Brownian motion in lip domains. (English and French summaries) **2005k:60174**
— (*with* Rosen, Jay) An almost sure invariance principle for renormalized intersection local times. (English summary) **2005k:60106**
Bauer, Robert O. Discrete Löwner evolution. (English and French summaries) **2005b:60250**
Baurdoux, E. J. (*with* Kyprianou, Andreas E.) Further calculations for Israeli options. (English summary) **2005g:91093**
Beghdadi-Sakrani, Samia Une martingale non pure, dont la filtration est brownienne. (English and French summaries) [A non-pure martingale with Brownian filtration] **2005g:60070**
van den Berg, M. (*with* Bolthausen, Erwin; den Hollander, Frank) On the volume of the intersection of two Wiener sausages. (English summary) **2005j:60050**
— (*with* Bolthausen, Erwin) Area versus capacity and solidification in the crushed ice model. **2005g:60120**
Berthet, Philippe Inner rates of coverage of Strassen type sets by increments of the uniform empirical and quantile processes. (English summary) **2005k:60122**
Bielecki, Tomasz R. (*with* Rutkowski, Marek) Modeling of the defaultable term structure: conditionally Markov approach. (English summary) **2005b:91104**
Blanco, Stéphane *see* **Jeanson, Raphaël et al.**
Bogdan, Krzysztof (*with* Stós, Andrzej; Sztonyk, Paweł) Harnack inequality for stable processes on d-sets. (English summary) **2005i:60092**
Bolthausen, Erwin *see* **van den Berg, M. et al., 2005g:60120** *and* **2005j:60050**
Boufoussi, Brahim (*with* N'zi, Modeste) Donsker type theorem in Besov spaces involving regularly varying functions. (English summary) **2005g:60037**
Bradley, James R. A Brownian approximation of a production-inventory system with a manufacturer that subcontracts. (English summary) **2005d:90057**
Broderix, Kurt (*with* Leschke, Hajo; Müller, Peter[4]) Continuous integral kernels for unbounded Schrödinger semigroups and their spectral projections. (English summary) **2005c:47063**
Burdzy, Krzysztof *see* **Bass, Richard F. et al., 2005k:60174**
Cai, Jun Ruin probabilities and penalty functions with stochastic rates of interest. (English summary) **2005b:60126**
Calvin, James M. Lower bound on complexity of optimization of continuous functions. (English summary) **2005c:90125**
Chan, Wai Sum *see* **Lin, Zheng Yan et al., 2005m:60157**
Chang, Fwu-Ranq ★ Stochastic optimization in continuous time. **2005b:91001**
Chen, Xia[1] Exponential asymptotics and law of the iterated logarithm for intersection local times of random walks. (English summary) **2005m:60174**
— (*with* Li, Wenbo V.) Large and moderate deviations for intersection local times. (English summary) **2005m:60175**
Chen, Zhen-Qing *see* **Bass, Richard F. et al., 2005k:60174**
Cheung, Siu Hung *see* **Lin, Zheng Yan et al., 2005m:60157**
Chevalier, Lucien Bornitude et continuité de la transformation de Lévy en analyse. (English summary) [Boundedness and continuity of the Lévy transform in analysis] **2005a:42020**
Choi, Changsun (*with* Nam, Dougu) Interpolation for partly hidden diffusion processes. (English summary) **2005e:60176**
Cohen, Joel E. (*with* Kemperman, Johannes H. B.; Zbăganu, Gheorghiţă) Elementary inequalities that involve two nonnegative vectors or functions. (English summary) **2005m:60034**
Collet, Pierre Asymptotic of the heat kernel in unbounded domains. **2005b:60203**
Comets, Francis (*with* Popov, S. Yu.) Limit law for transition probabilities and moderate deviations for Sinai's random walk in random environment. (English summary) **2005d:60157**
— (*with* Yoshida, Nobuo) Brownian directed polymers in random environment. (English summary) **2005m:60242**
Deck, Thomas Finite rank Hankel operators over the complex Wiener space. (English summary) **2005k:47057**
Deelstra, Griselda *see* **Vanmaele, Michèle et al., 2005k:91176**
Deheuvels, Paul (*with* Martynov, Gennadiĭ V.) Karhunen-Loève expansions for weighted Wiener processes and Brownian bridges via Bessel functions. (English summary) **2005i:62074**
Deneubourg, Jean-Louis *see* **Jeanson, Raphaël et al.**
Dokuchaev, Nikolai Estimates for distances between first exit times via parabolic equations in unbounded cylinders. (English summary) **2005e:60084**
Donati-Martin, Catherine (*with* Doumerc, Yan; Matsumoto, Hiroyuki[2]; Yor, Marc) Some properties of the Wishart processes and a matrix extension of the Hartman-Watson laws. (English summary) **2005k:60251**
Doumerc, Yan *see* **Donati-Martin, Catherine et al., 2005k:60251**
Driver, Bruce K. Curved Wiener space analysis. **2005g:58066**
Duplantier, Bertrand Conformal fractal geometry & boundary quantum gravity. (English summary) **2005m:82057**
Dynkin, Eugene B. (*with* Kuznetsov, S. E.) N-measures for branching exit Markov systems and their applications to differential equations. (English summary) **2005i:60165**
Eberle, Andreas Spectral gaps on discretized loop spaces. (English summary) **2005c:58064**
— Local spectral gaps on loop spaces. (English and French summaries) **2005a:58055**
El Saadi, N. (*with* Adioui, M.; Arino, Ovide) A mathematical analysis for an aggregation model of phytoplankton. (English summary) (*see* **2005m:00007**)
Émery, Michel (*with* Yor, Marc) A parallel between Brownian bridges and gamma bridges. (English summary) **2005g:60074**
Etienne, M. P. (*with* Vallois, Pierre) Approximation of the distribution of the supremum of a centered random walk. Application to the local score. (English summary) **2005i:60088**
Feng, Guang Bo (*with* Ma, Chao Qun; Hou, Zhen Ting; Tang, You Rong) Brown birth and death processes and their applications to a model of stock price. (Chinese. English and Chinese summaries) **2005m:60245**
Fouque, Jean-Pierre (*with* Papanicolaou, George; Sircar, K. Ronnie) Stochastic volatility and correction to the heat equation. (English summary) **2005m:60141**
Fourcassié, Vincent *see* **Jeanson, Raphaël et al.**
Fournier, Richard[2] *see* **Jeanson, Raphaël et al.**
Fukushima, Masatoshi (*with* Ying, Jiangang) A note on regular Dirichlet subspaces. (English summary) **2005b:60204**
— (*with* Ying, Jiangang) Erratum to: "A note on regular Dirichlet subspaces" [Proc. Amer. Math. Soc. **131** (2003), no. 5, 1607–1610; MR1950292 (2005b:60204)]. **2005b:60205**
Gallardo, Léonard (*with* Godefroy, Laurent) Un principe d'invariance relatif á un processus généralisant le mouvement brownien N-dimensionnel. (English and French summaries) [An invariance principle related to a process which generalizes N-dimensional Brownian motion] **2005c:60036**
Ghomrasni, R. (*with* Peskir, Goran) Local time-space calculus and extensions of Itô's formula. (English summary) **2005j:60106**
— On distributions associated with the generalized Lévy's stochastic area formula. (English summary) **2005h:60111**
Giraud, Olivier (*with* Thain, A.; Hannay, J. H.) Shrunk loop theorem for the topology probabilities of closed Brownian (or Feynman) paths on the twice punctured plane. (English summary) **2005b:82033**
Gittenberger, Bernhard (*with* Louchard, Guy) Reflected Brownian bridge local time conditioned on its local time at the origin. (English summary) **2005b:60207**
Godefroy, Laurent *see* **Gallardo, Léonard, 2005c:60036**
Gradinaru, Mihai (*with* Nourdin, Ivan) Approximation at first and second order of m-order integrals of the fractional Brownian motion and of certain semimartingales. (English summary) **2005f:60126**
Grigor'yan, Alexander (*with* Saloff-Coste, Laurent) Hitting probabilities for Brownian motion on Riemannian manifolds. **2005e:31011**
Gyöngy, István (*with* Michaletzky, György) On Wong-Zakai approximations with δ-martingales. (English summary) **2005b:60147**
Haken, Hermann ★ Synergetics. **2005a:00006**
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Hariya, Yuu (*with* Yor, Marc) Limiting distributions associated with moments of exponential Brownian functionals. (English summary) **2005g:60015**
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Haven, Emmanuel An '$\hbar$-Brownian motion' and the existence of stochastic option prices. (English summary) **2005g:91104**
Holcman, D. (*with* Schuss, Zeev) Escape through a small opening: receptor trafficking in a synaptic membrane. (English summary) **2005i:82055**
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Horák, Jiří *see* **Bass, Richard F. et al., 2005f:35074**
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Huang, Peng[2] Asymptotic design of general triangular stopping boundaries for Brownian motion. (English summary) **2005k:60129**
Husimi, Yuzuru *see* **Aita, Takuyo**
Inoue, K. (*with* Kanagawa, Shuya) Strong approximation of reflecting Brownian motion using penalty method and its approximation. (*see* **2005i:00016**)
Jeanson, Raphaël (*with* Blanco, Stéphane; Fournier, Richard[2]; Deneubourg, Jean-Louis; Fourcassié, Vincent; Theraulaz, Guy) A model of animal movements in a bounded space. (English summary)
Jumarie, Guy Probability density of the complex-valued fractional Brownian motion of order n via the maximum entropy principle in $\mathbf{R}_+^{1/n}$. (English summary) **2005a:60082**
Kager, Wouter (*with* Nienhuis, Bernard) A guide to stochastic Löwner evolution and its applications. (English summary) **2005f:82037**
Kanagawa, Shuya *see* **Inoue, K.**, (**2005i:00016**)
Katori, Makoto (*with* Tanemura, Hideki) Symmetry of matrix-valued stochastic processes and noncolliding diffusion particle systems. (English summary) **2005g:82099**
Kearney, Michael J. (*with* Majumdar, Satya N.) On the area under a continuous time Brownian motion till its first-passage time. (English summary) **2005m:82118**
Kemperman, Johannes H. B. *see* **Cohen, Joel E. et al., 2005m:60034**
Kim, Byung Soo[1] (*with* Skoug, David) Integral transforms of functionals in $L_2(C_0[0,T])$. (English summary) **2005d:28028**
Klenke, Achim Thin points of Brownian motion intersection local times. (English summary) (*see* **2005i:00006**)
Kolesnik, A. D. Weak convergence of the distributions of Markovian random evolutions in two and three dimensions. (English summary) **2005e:60171**
Kouritzin, Michael A. (*with* Sun, Wei[3]; Xiong, Jie) Nonlinear filtering for reflecting diffusions in random environments via nonparametric estimation. (English summary) **2005j:60186**
Kozhan, D. P. *see* **Solodyannikov, Yu. V., 2005k:60054**
Kruk, Łukasz (*with* Lehoczky, John; Shreve, Steven E.; Yeung, Shu-Ngai) Earliest-deadline-first service in heavy-traffic acyclic networks. (English summary) **2005j:60171**
Kucherenko, Sergei *see* **Sobol′, I. M., 2005m:65009**
Kulperger, Reg Stochastic finance: discrete time processes and risk neutral pricing. (English summary) (*see* **2005g:60006**)
Kumagai, Takashi Function spaces and stochastic processes on fractals. (English summary) **2005i:60160**
Kuznetsov, S. E. *see* **Dynkin, Eugene B., 2005i:60165**
Kyprianou, Andreas E. *see* **Baurdoux, E. J., 2005g:91093**
Lai, Dejian Estimating the Hurst effect and its application in monitoring clinical trials. (English summary) **2005a:62060**
Lawler, Gregory F. An introduction to the stochastic Loewner evolution. (English summary) **2005f:60217**
Léandre, Rémi Full stochastic Dirac-Ramond operator over the free loop space. **2005d:58063**
— Stochastic Wess-Zumino-Novikov-Witten model on the torus. (English summary) **2005b:58056**
Lee, Sangyeol (*with* Tokutsu, Yasuyoshi; Maekawa, Koichi) The cusum test for parameter change in regression models with ARCH errors. (English summary) **2005h:62177**
Lehoczky, John *see* **Kruk, Łukasz et al., 2005j:60171**
Leschke, Hajo *see* **Broderix, Kurt et al., 2005c:47063**
Li, Wenbo V. *see* **Chen, Xia**[1], **2005m:60175**
Liinev, Jan *see* **Vanmaele, Michèle et al., 2005k:91176**
Lin, Huo Nan *see* **Qiu, Zhi Ping**
Lin, Zheng Yan The large increments of a multifractional Brownian motion. (English summary) **2005i:60070**
— The strong laws for the rescaled R/S statistics. (English summary) **2005e:60072**
— (*with* Wang, Wen Sheng[3]) The modulus of non-differentiability of a Brownian motion in l_p. (English summary) **2005i:60071**
— (*with* Zhang, Li Xin[1]; Cheung, Siu Hung; Chan, Wai Sum) Strong approximation of a Markov chain. (Chinese. English and Chinese summaries) **2005m:60157**
Lisei, Hannelore (*with* Scheutzow, Michael) On the dispersion of sets under the action of an isotropic Brownian flow. (English summary) **2005f:37113**
Liu, Aiyi A simple low-bias estimate following a sequential test with linear boundaries. (English summary) (*see* **2005i:62004**)
Liu, Fa Wang (*with* Anh, V. V.; Turner, Ian W.) Numerical solution of the space fractional Fokker-Planck equation. (English summary) **2005b:65102**
Liu, Kun Hui *see* **Yang, Rui-Cheng, 2005j:91061**
Louchard, Guy *see* **Gittenberger, Bernhard, 2005b:60207**
Lucas, Alain (*with* Thilly, Emmanuel) Loi de type Chung en norme de Hölder pour les accroissements locaux du mouvement brownien. (English and French summaries) [Chung's law for local increments of Brownian motion in Hölder norm] **2005b:60076**
Lyons, Terry (*with* Qian, Zhongmin) ★ System control and rough paths. **2005f:93001**
Ma, Chao Qun *see* **Feng, Guang Bo et al., 2005m:60245**
Maekawa, Koichi *see* **Lee, Sangyeol et al., 2005h:62177**
Majewski, Kurt Corrigendum: "Large deviations for multi-dimensional reflected fractional Brownian motion" [Stoch. Stoch. Rep. **75** (2003), no. 4, 233–257; MR1994908 (2004f:60058)]. **2005f:60071**
Majumdar, Satya N. *see* **Kearney, Michael J., 2005m:82118**
Maller, Ross A. *see* **Szimayer, Alexander, 2005b:62173**
Malliavin, Paul *see* **Airault, Hélène et al., 2005i:58044**
Marcus, Michael B. Local times on curves and surfaces. (English summary) **2005a:60122**
Martynov, Gennadiĭ V. *see* **Deheuvels, Paul, 2005i:62074**
Matsumoto, Hiroyuki[2] *see* **Donati-Martin, Catherine et al., 2005k:60251**
Maumy, Myriam Strong approximations for the compound empirical process. (English summary) **2005h:62140**
McKenna, Patrick J. *see* **Bass, Richard F. et al., 2005f:35074**
Meilijson, Isaac The time to a given drawdown in Brownian motion. (English summary) **2005b:60109**
Michaletzky, György *see* **Gyöngy, István, 2005b:60147**
Miermont, Grégory *see* **Aldous, David J. et al., 2005b:60014**
Mitov, Kosto V. (*with* Nadarajah, Saralees) Beta distributions in stochastic processes. (*see* **2005j:62007**)
Morales, Manuel (*with* Schoutens, Wim) A risk model driven by Lévy processes. (English summary) **2005f:60109**
Müller, Peter[4] *see* **Broderix, Kurt et al., 2005c:47063**
Musgrave, F. Kenton Fractal forgeries of nature. (*see* **2005g:28002**)
Nadarajah, Saralees *see* **Mitov, Kosto V.**, (**2005j:62007**)
Nam, Dougu *see* **Choi, Changsun, 2005e:60176**
Nazarov, A. I. (*with* Nikitin, Ya. Yu.) Exact L_2-small ball behavior of integrated Gaussian processes and spectral asymptotics of boundary value problems. (English summary) **2005d:60060**
Newman, Charles M. (*with* Ravishankar, K.; Sun, Rongfeng) Convergence of coalescing nonsimple random walks to the Brownian web. (English summary) **2005k:60306**
Nienhuis, Bernard *see* **Kager, Wouter, 2005f:82037**
Nikitin, Ya. Yu. *see* **Nazarov, A. I., 2005d:60060**
Norris, James R. Brownian coagulation. (English summary) **2005k:82076**
Nourdin, Ivan *see* **Gradinaru, Mihai, 2005f:60126**
N'zi, Modeste *see* **Boufoussi, Brahim, 2005g:60037**
Papanicolaou, George *see* **Fouque, Jean-Pierre et al., 2005m:60141**
Patie, Pierre *see* **Alili, Larbi**
Peirano, Éric (*with* Talay, Denis) Domain decomposition by stochastic methods. (*see* **2005f:65003**)
Peskir, Goran *see* **Ghomrasni, R., 2005j:60106**
Pitman, Jim (*with* Yor, Marc) Some properties of the arc-sine law related to its invariance under a family of rational maps. (English summary) **2005k:37098**
— *see also* **Aldous, David J. et al., 2005b:60014**
Popov, S. Yu. *see* **Comets, Francis, 2005d:60157**
Popovic, Lea Asymptotic genealogy of a critical branching process. (English summary) **2005h:60259**
(Prokhorov, Yuriĭ Vasil′evich) *see* **Skorokhod, Anatolii V., 2005i:60002**
Qian, Zhongmin *see* **Lyons, Terry, 2005f:93001**
Qiu, Zhi Ping (*with* Lin, Huo Nan) Multifractal analysis for the sample paths of additive Brownian motion. (Chinese. English and Chinese summaries)
Ramachandran, K. M. Nearly optimal impulsive controls for reflected wideband width process. (English summary) **2005c:93110**
Ravishankar, K. *see* **Newman, Charles M. et al., 2005k:60306**
Rebolledo, Rolando Open quantum systems and classical trajectories. (English summary) **2005j:81091**
Rogers, Alice Supersymmetry and Brownian motion on supermanifolds. (English summary) **2005k:58066**
Rosen, Jay *see* **Bass, Richard F., 2005k:60106**
Rutkowski, Marek *see* **Bielecki, Tomasz R., 2005b:91104**
Sadasue, Gaku A non quasi-invariance of the Brownian motion on loop groups. **2005j:58050**
Saloff-Coste, Laurent On the convergence to equilibrium of Brownian motion on compact simple Lie groups. (English summary) **2005m:58081**
— *see also* **Grigor′yan, Alexander, 2005e:31011**
Scheutzow, Michael *see* **Lisei, Hannelore, 2005f:37113**
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Schuss, Zeev *see* **Holcman, D., 2005i:82055**
(Seckler, B. D.) *see* **Skorokhod, Anatolii V., 2005i:60002**
Shreve, Steven E. *see* **Kruk, Łukasz et al., 2005j:60171**
Sidorova, N. A. The Smolyanov surface measure on trajectories in a Riemannian manifold. (English summary) **2005h:58065**
Simon, Barry ★ Functional integration and quantum physics. **2005f:81003**
Sircar, K. Ronnie *see* **Fouque, Jean-Pierre et al., 2005m:60141**
Skorokhod, Anatolii V. ★ Basic principles and applications of probability theory. **2005i:60002**
Skoug, David *see* **Kim, Byung Soo**[1], **2005d:28028**
Slastnikov, A. D. *see* **Arkin, Vadim I., 2005e:60090**
Sobol′, I. M. (*with* Kucherenko, Sergei) On global sensitivity analysis of quasi-Monte Carlo algorithms. (English summary) **2005m:65009**
Sofronov, G. Yu. An asymptotically d-optimal test in the problem of a posteriori change-point detection. (Russian. Russian summary) **2005m:62151**
Solodyannikov, Yu. V. (*with* Kozhan, D. P.) Computation of the characteristic functions of quadratic functionals of Wiener processes. (Russian. English and Russian summaries) **2005k:60054**
Stós, Andrzej *see* **Bogdan, Krzysztof et al., 2005i:60092**
Stoynov, Pavel T. A special case of wealth motion. **2005h:91133**
Stroock, Daniel W. Brownian motion on a submanifold. (English summary) **2005e:58062**
Sun, Rongfeng *see* **Newman, Charles M. et al., 2005k:60306**
Sun, Wei[3] *see* **Kouritzin, Michael A. et al., 2005j:60186**
Szimayer, Alexander (*with* Maller, Ross A.) Testing for mean reversion in processes of Ornstein-Uhlenbeck type. (English summary) **2005b:62173**
Sztonyk, Paweł *see* **Bogdan, Krzysztof et al., 2005i:60092**
Takahashi, Hiroshi[3] Recurrence and transience of multi-dimensional diffusion processes in reflected Brownian environments. (English summary) **2005h:60311**
Takeda, Masayoshi (*with* Tsuchida, Kaneharu) Criticality of generalized Schrödinger operators and differentiability of spectral functions. (English summary) **2005h:60240**
Talay, Denis *see* **Peirano, Éric**, (**2005f:65003**)
Tanemura, Hideki *see* **Katori, Makoto, 2005g:82099**
Tang, You Rong *see* **Feng, Guang Bo et al., 2005m:60245**
Tehranchi, Michael Explicit solutions of some utility maximization problems in incomplete markets. (English summary) **2005h:91123**
Teufl, Elmar On the Hausdorff dimension of the Sierpiński gasket with respect to the harmonic metric. (English summary) **2005i:28024**
Thain, A. *see* **Giraud, Olivier et al., 2005b:82033**
Thalmaier, Anton *see* **Airault, Hélène et al., 2005i:58044**
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Tsuchida, Kaneharu *see* **Takeda, Masayoshi**, **2005h:60240**
Turner, Ian W. *see* **Liu, Fa Wang et al.**, **2005b:65102**
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Vallois, Pierre *see* **Etienne, M. P.**, **2005i:60088**
Vanmaele, Michèle (*with* Deelstra, Griselda; Liinev, Jan) Approximation of stop-loss premiums involving sums of lognormals by conditioning on two variables. (English summary) **2005k:91176**
Villarroel, Javier On a solvable diffusion with time dependent "killing". (English summary) **2005b:60213**
Wang, Feng Yu Weak Poincaré inequalities on path spaces. **2005c:58067**
Wang, Wen Sheng[3] Fractal nature of the functional laws of logarithm of a fractional Brownian motion. (English summary) **2005d:60062**
— How big are the Csörgő-Révész increments of two-parameter Wiener processes? (English summary) **2005m:60059**
— *see also* **Lin, Zheng Yan**, **2005i:60071**
Werner, Wendelin Random planar curves and Schramm-Loewner evolutions. (English summary) **2005m:60020**
— Girsanov's transformation for SLE(κ, ρ) processes, intersection exponents and hiding exponents. (English and French summaries) **2005b:60262**
Xiong, Jie (*with* Zhou, Xiao Wen) Superprocess over a stochastic flow with superprocess catalyst. (English summary) **2005k:60277**
— *see also* **Kouritzin, Michael A. et al.**, **2005j:60186**
Yang, Rui-Cheng (*with* Liu, Kun Hui) Optimal singular stochastic problem on harvesting system. (English summary) **2005j:91061**
Yeung, Shu-Ngai *see* **Kruk, Łukasz et al.**, **2005j:60171**
Ying, Jiangang *see* **Fukushima, Masatoshi**, **2005b:60204** *and* **2005b:60205**
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Yoshida, Nobuo *see* **Comets, Francis**, **2005m:60242**
Zähle, Martina Riesz potentials and Besov spaces on fractals. (English summary) **2005k:60247**
Zaitseva, Ludmila L. On a multidimensional Brownian motion with partly reflecting membrane on a hyperplane. (English summary) **2005i:60077**
Zbăganu, Gheorghiță *see* **Cohen, Joel E. et al.**, **2005m:60034**
Zhang, Li Xin[1] *see* **Lin, Zheng Yan et al.**, **2005m:60157**
Zhou, Xiao Wen *see* **Xiong, Jie**, **2005k:60277**
Zygadło, Ryszard Two Markovian models leading to the Pascalian (1D ultrarelativistic) stationary distribution. (English summary) **2005f:37191**

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Albanese, Claudio (*with* Kuznetsov, Alexey Evgenievich) Affine lattice models. (English summary) **2005k:60264**
Ata, Barış (*with* Harrison, J. Michael; Shepp, Larry A.) Drift rate control of a Brownian processing system. (English summary) **2005k:60265**
Barton, N. H. (*with* Etheridge, Alison M.; Sturm, A. K.) Coalescence in a random background. (English summary) **2005e:60190**
Cerrai, Sandra (*with* Clément, Philippe) Well-posedness of the martingale problem for some degenerate diffusion processes occurring in dynamics of populations. (English summary) **2005h:60249**
Clément, Philippe *see* **Cerrai, Sandra**, **2005h:60249**
Dahl, Mikkel Stochastic mortality in life insurance: market reserves and mortality-linked insurance contracts. (English summary)
Etheridge, Alison M. *see* **Barton, N. H. et al.**, **2005e:60190**
Garrido, José *see* **Li, Shuanming**, **2005k:60266**
Guilbault, Jean-Luc *see* **Lefebvre, Mario**, **2005e:60191**
Harrison, J. Michael *see* **Ata, Barış et al.**, **2005k:60265**
Jagers, Peter (*with* Sagitov, Serik) Convergence to the coalescent in populations of substantially varying size. (English summary) **2005d:60134**
Kuznetsov, Alexey Evgenievich *see* **Albanese, Claudio**, **2005k:60264**
Lefebvre, Mario (*with* Guilbault, Jean-Luc) Hitting place probabilities for two-dimensional diffusion processes. (English summary) **2005e:60191**
Li, Shuanming (*with* Garrido, José) The Gerber-Shiu function in a Sparre Andersen risk process perturbed by diffusion. (English summary) **2005k:60266**
Qian, Xiao Song Changes of probability measure and option pricing in jump-diffusion models. (Chinese. English and Chinese summaries) **2005e:60192**
Sagitov, Serik *see* **Jagers, Peter**, **2005d:60134**
Shepp, Larry A. *see* **Ata, Barış et al.**, **2005k:60265**
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Items with secondary classifications in 60J70

Buonocore, Aniello (*with* Di Crescenzo, Antonio; Martinucci, Barbara) A stochastic model for the rising phase of myosin head displacements along actin filaments. (English summary) (*see* **2005d:92001**)
— (*with* Esposito, Giampiero; Giorno, V.; Valerio, C.) Towards dead time inclusion in neuronal modeling. (English summary) **2005a:60124**
Cerrai, Sandra (*with* Clément, Philippe) Schauder estimates for a class of second order elliptic operators on a cube. (English summary) **2005b:35052**
Clément, Philippe *see* **Cerrai, Sandra**, **2005b:35052**
Di Crescenzo, Antonio *see* **Buonocore, Aniello et al.**, (**2005d:92001**)
Dolbeault, Jean (*with* Illner, Reinhard) Entropy methods for kinetic models of traffic flow. (English summary) **2005f:90024**
Ebrahimi, Nader System reliability based on diffusion models for fatigue crack growth. (English summary) **2005g:90033**
Esposito, Giampiero *see* **Buonocore, Aniello et al.**, **2005a:60124**
Etheridge, Alison M. Survival and extinction in a locally regulated population. (English summary) **2005b:60225**
Foryś, Urszula (*with* Kolev, Mikhail) Time delays in proliferation and apoptosis for solid avascular tumour. (English summary) **2005b:35148**
Giorno, V. *see* **Buonocore, Aniello et al.**, **2005a:60124**
Giuli, Massimiliano (*with* Monte, Roberto) Diffusion processes in a financial market under heterogeneous trading and learning. (English summary) **2005k:91153**
Handa, Kenji Reversible distributions of multi-allelic Gillespie-Sato diffusion models. (English summary) **2005i:60152**
Harrison, J. Michael A broader view of Brownian networks. (English summary) **2005f:90018**
Hobson, D. G. Bounds for the utility-indifference prices of non-traded assets in incomplete markets. (English summary) **2005k:91155**
Illner, Reinhard *see* **Dolbeault, Jean**, **2005f:90024**
Istas, Jacques ★ Introduction aux modélisations mathématiques pour les sciences du vivant. (French) [Introduction to mathematical modelling for the life sciences] **2005j:60001**
Kim, Jeong-Hoon Asymptotic theory of noncentered mixing stochastic differential equations. (English summary) **2005j:60117**
Kolev, Mikhail *see* **Foryś, Urszula**, **2005b:35148**
Kou, S. C. (*with* Kou, S. G.) A diffusion model for growth stocks. (English summary) **2005g:60124**
Kou, S. G. *see* **Kou, S. C.**, **2005g:60124**
Li, Shang You (*with* Zhang, Chun Sheng; Wu, Rong[1]) Ruin estimates of diffusion models under constant interest rate. (Chinese. English and Chinese summaries) **2005f:60153**
Linetsky, Vadim The spectral representation of Bessel processes with constant drift: applications in queueing and finance. (English summary) **2005d:60123**
— On the transition densities for reflected diffusions. (English summary)
Lu, Yu Hua (*with* Wu, Rong[1]) Premium formulae for a classical risk model perturbed by diffusion in an economic environment. (Chinese. English and Chinese summaries) **2005k:91187**
Martinucci, Barbara *see* **Buonocore, Aniello et al.**, (**2005d:92001**)
Monte, Roberto *see* **Giuli, Massimiliano**, **2005k:91153**
Sacerdote, Laura (*with* Sirovich, Roberta) A Wiener process with inverse Gaussian time distributed jumps as a model for neuronal activity. (English summary) (*see* **2005d:92001**)
Sirovich, Roberta *see* **Sacerdote, Laura**, (**2005d:92001**)
Stolyar, A. L. Maxweight scheduling in a generalized switch: state space collapse and workload minimization in heavy traffic. (English summary) **2005a:60151**
Thomassen, L. (*with* Van Wouwe, M.) The influence of a stochastic interest rate on the n-fold compound option. (English summary) **2005e:91094**
Turban, L. Reaction-diffusion with a time-dependent reaction rate: the single-species diffusion-annihilation process. (English summary) **2005d:82116**
Valerio, C. *see* **Buonocore, Aniello et al.**, **2005a:60124**
Van Wouwe, M. *see* **Thomassen, L.**, **2005e:91094**
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Zhang, Chun Sheng *see* **Li, Shang You et al.**, **2005f:60153**

60J75 Jump processes

Borisov, Andrei V. Analysis and estimation of the states of special Markov jump processes I. A martingale representation. (Russian. Russian summary) **2005j:60156**
— Analysis and estimation of the states of special Markov jump processes. II. Optimal filtering in the presence of Wiener noise. (Russian. Russian summary) **2005j:60157**
Böttcher, Björn (*with* Jacob, Niels) Remarks on Meixner-type processes. (English summary) **2005g:60130**
Chen, Zhen-Qing (*with* Kumagai, Takashi) Heat kernel estimates for stable-like processes on d-sets. (English summary) **2005d:60135**
Guillemin, Fabrice (*with* Mazumdar, Ravi R.) Rate conservation laws for multidimensional processes of bounded variation with applications to priority queueing systems. (English summary) **2005e:60193**
Hanson, Floyd B. (*with* Westman, John J.; Zhu, Zongwu) Multinomial maximum likelihood estimation of market parameters for stock jump-diffusion models. (English summary) **2005g:60131**
Hochberg, Kenneth J. (*with* Shmerling, Efraim) Stability and optimal control for semi-Markov jump parameter linear systems. (English summary) **2005i:60159**
Jacob, Niels *see* **Böttcher, Björn**, **2005g:60130**
Kumagai, Takashi Function spaces and stochastic processes on fractals. (English summary) **2005i:60160**
— *see also* **Chen, Zhen-Qing**, **2005d:60135**
Lim, Andrew E. B. (*with* Zhou, Xun Yu) Mean-variance portfolio choice with discontinuous asset prices and nonnegative wealth processes. (English summary) (*see* **2005b:91010**)
Luczak, Malwina J. A quantitative law of large numbers via exponential martingales. (English summary) **2005h:60250**
Mazumdar, Ravi R. *see* **Guillemin, Fabrice**, **2005e:60193**
Piunovskiĭ, A. B. Optimal interventions in countable jump Markov processes. (English summary) **2005e:60194**
Shmerling, Efraim *see* **Hochberg, Kenneth J.**, **2005i:60159**
Westman, John J. *see* **Hanson, Floyd B. et al.**, **2005g:60131**
Xu, Kan (*with* Xu, Li Feng; Zhang, Shao Yi) Existence and uniqueness of invariant measure for jump processes with general state space. (Chinese. English and Chinese summaries) **2005h:60251**
Xu, Li Feng *see* **Xu, Kan et al.**, **2005h:60251**
Zhang, Shao Yi *see* **Xu, Kan et al.**, **2005h:60251**
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Items with secondary classifications in 60J75

Abdel-Rehim, Entsar A. *see* **Gorenflo, Rudolf**, **2005m:60161**
Albanese, Claudio (*with* Chen, Oliver X.) Credit barrier models in a discrete framework (English summary) **2005g:91090**

Al'beverio, S. (*with* Lytvynov, Eugene; Mahnig, Andrea) A model of the term structure of interest rates based on Lévy fields. (English summary) **2005h:60178**

Alcock, Jamie (*with* Burrage, Kevin) A genetic estimation algorithm for parameters of stochastic ordinary differential equations. (English summary)

Bass, Richard F. Stochastic differential equations with jumps. (English summary)

Burrage, Kevin *see* **Alcock, Jamie**

Chen, Mu-Fa ★ From Markov chains to non-equilibrium particle systems. **2005h:60004**

Chen, Oliver X. *see* **Albanese, Claudio**, **2005g:91090**

Chen, Qian (*with* Zou, Jie Zhong) A risk model with the occurrence of claims described by a Markov jump process. (Chinese. English and Chinese summaries)

Conlon, Joseph G. Green's functions for elliptic and parabolic equations with random coefficients. II. (English summary) **2005f:35341**

Ding, Steven Xianchun *see* **Zhong, Maiying et al.**, **2005e:94313**

Duan, Jin Qiao *see* **Gugg, Christoph**, **2005d:60095**

Elliott, Robert J. (*with* Malcolm, W. P.) Robust M-ary detection filters and smoothers for continuous-time jump Markov systems. (English summary) **2005e:93153**

Émery, Michel (*with* Yor, Marc) A parallel between Brownian bridges and gamma bridges. (English summary) **2005g:60074**

Erban, Radek (*with* Othmer, Hans G.) From individual to collective behavior in bacterial chemotaxis. (English summary) **2005j:35220**

Fang, Yuguang *see* **Loparo, Kenneth A.**, **2005b:34111**

Feng, Shui (*with* Grigorescu, Ilie; Quastel, Jeremy) Diffusive scaling limits of mutually interacting particle systems. (English summary) **2005f:60212**

Fournier, Nicolas (*with* Giet, Jean-Sébastien) On small particles in coagulation-fragmentation equations. (English summary) **2005a:82076**

— (*with* Mischler, Stéphane) On a discrete Boltzmann-Smoluchowski equation with rates bounded in the velocity variables. (English summary) **2005m:82129**

Fukushima, Masatoshi (*with* Uemura, Toshihiro) On spectral synthesis for contractive p-norms and Besov spaces. (English summary) **2005i:31014**

Georgii, Hans-Otto *see* **Tumulka, Roderich**, **2005m:81329**

Giet, Jean-Sébastien *see* **Fournier, Nicolas**, **2005a:82076**

Glasserman, Paul (*with* Merener, Nicolas) Convergence of a discretization scheme for jump-diffusion processes with state-dependent intensities. (English summary) **2005b:65008**

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Zhou, Xiao Wen *see* **Dawson, Donald A. et al.**, **2005k:60269** *and* **Xiong, Jie**, **2005k:60277**

Zhu, Quan Xin (*with* Dai, Yong Long) Some properties of two kinds of birth and death processes before explosions. (Chinese. English and Chinese summaries) **2005h:60258**

Items with secondary classifications in 60J80

Abért, Miklós (*with* Virág, Bálint) Dimension and randomness in groups acting on rooted trees. **2005m:20058**

Abraham, Romain (*with* Delmas, Jean-François) Solutions of $\Delta u = 4u^2$ with Neumann's conditions using the Brownian snake. (English summary) **2005d:60126**

Albanese, Claudio (*with* Kuznetsov, Alexey Evgenievich) Affine lattice models. (English summary) **2005k:60264**

Al'beverio, S. (*with* Kozlov, M. V.) On the recurrence and transience of state-dependent branching process in a random environment. (Russian. Russian summary) **2005m:60240**

Al-Eideh, Basel M. Estimation of the parameters of a survival process with downward jumps in life table. (English summary)

Arribas, María *see* **Manrubia, Susanna C. et al.**

Barbour, A. D. (*with* Utev, Sergei) Approximating the Reed-Frost epidemic process. (English summary) **2005h:60315**

Barton, N. H. (*with* Etheridge, Alison M.; Sturm, A. K.) Coalescence in a random background. (English summary) **2005e:60190**

Basawa, I. V. (*with* Vidyashankar, Anand N.) Quasilikelihood estimation for branching processes with immigration. (English summary) **2005h:62217**

Ben-Naim, Eli *see* **Krapivsky, Paul L. et al.**, **2005j:82029**

Birkner, Matthias (*with* Geiger, Jochen; Kersting, Götz) Branching processes in random environment—a view on critical and subcritical cases. (English summary) (*see* **2005i:00006**)

Blondia, C. *see* **Van Houdt, B.**, **2005c:60091**

Borovkov, K. A note on diffusion-type approximation to branching processes in random environments. (Russian summary) **2005a:60158**

Cairns, Ben (*with* Pollett, P. K.) Extinction times for a general birth, death and catastrophe process. (English summary) **2005m:60165**

Carbone, Raffaella (*with* Fagnola, Franco) Exponential ergodicity of classical and quantum Markov birth and death semigroups. (English summary) **2005m:81180**

Chassaing, Philippe *see* **Janson, Svante**, **2005k:60303**

Chen, Mu-Fa (*with* Zhang, Yu Hui[2]; Zhao, Xiaoliang) Dual variational formulas for the first Dirichlet eigenvalue on half-line. (English summary) **2005b:34175**

Chen, Si Yang *see* **Wei, Zhao Ying**

Cox, J. Theodore (*with* Perkins, Edwin A.) An application of the voter model–super-Brownian motion invariance principle. (English and French summaries) **2005b:60254**

Crisan, Dan Superprocesses in a Brownian environment. (English summary) **2005h:60306**

Dawson, Donald A. (*with* Li, Zeng Hu; Schmuland, Byron; Sun, Wei[3]) Generalized Mehler semigroups and catalytic branching processes with immigration. (English summary) **2005d:60122**

Delmas, Jean-François *see* **Abraham, Romain**, **2005d:60126**

Dembo, Amir (*with* Gantert, Nina; Zeitouni, Ofer) Large deviations for random walk in random environment with holding times. (English summary) **2005i:60087**

Dette, Holger Canonical moments, orthogonal polynomials with applications to statistics. (English summary) **2005k:62031**

Doering, Charles R. (*with* Sargsyan, Khachik V.; Sander, Leonard M.) Extinction times for birth-death processes: exact results, continuum asymptotics, and the failure of the Fokker-Planck approximation. (English summary) **2005j:92021**

Drummond, P. D. Gauge Poisson representations for birth/death master equations. (English summary) **2005d:82095**

Dyakonova, E. E. (*with* Geiger, Jochen; Vatutin, Vladimir A.) On the survival probability and a functional limit theorem for branching processes in random environment. (English summary) **2005i:60201**

— *see also* **Vatutin, Vladimir A.**, **2005h:60313**

Dynkin, Eugene B. ★ Superdiffusions and positive solutions of nonlinear partial differential equations. **2005i:60004**

— Absolute continuity results for superdiffusions with applications to differential equations. (English and French summaries) **2005e:35064**

Engländer, János (*with* den Hollander, Frank) Survival asymptotics for branching Brownian motion in a Poissonian trap field. (English summary) **2005e:60186**

Etheridge, Alison M. (*with* Fleischmann, Klaus) Compact interface property for symbiotic branching. (English summary) **2005j:60181**

— *see also* **Barton, N. H. et al.**, **2005e:60190**

Fagnola, Franco *see* **Carbone, Raffaella**, **2005m:81180**

Fang, Ji-Qian (*with* Li, Caixia) Stochastic processes and their applications in medical science. (English summary) (*see* **2005c:62003**)

Fayolle, Guy (*with* Malyshev, V. A.; Pirogov, S. A.) Stochastic chemical kinetics with energy parameters. (English summary) (*see* **2005d:00014**)

Feng, Guang Bo (*with* Ma, Chao Qun; Hou, Zhen Ting; Tang, You Rong) Brown birth and death processes and their applications to a model of stock price. (Chinese. English and Chinese summaries) **2005m:60245**

Fleischmann, Klaus *see* **Etheridge, Alison M.**, **2005j:60181**

Fleißner, Roland *see* **Metzler, Dirk et al.**, (**2005i:00006**)

Fournier, Nicolas (*with* Méléard, Sylvie) A microscopic probabilistic description of a locally regulated population and macroscopic approximations. (English summary) **2005m:60231**

Gani, Joseph M. Eradicating noxious hosts by parasites. (English summary)

Gantert, Nina *see* **Dembo, Amir et al.**, **2005i:60087**

Geiger, Jochen *see* **Dyakonova, E. E. et al.**, **2005i:60201** *and* **Birkner, Matthias et al.**, (**2005i:00006**)

Gittenberger, Bernhard (*with* Louchard, Guy) Reflected Brownian bridge local time conditioned on its local time at the origin. (English summary) **2005b:60207**

Green, Michael L. The immigration-emigration with catastrophe model. (English summary) (*see* **2004k:60004**)

Greven, Andreas Renormalization and universality for multitype population models. (English summary) (*see* **2005i:00006**)

Große, Ivo *see* **Krapivsky, Paul L. et al.**, **2005j:82029**

Guivarc'h, Yves (*with* Le Page, Emile; Liu, Quansheng) Normalisation d'un processus de branchement critique dans un environnement aléatoire. (English and French summaries) [Normalization of a critical branching process in a random environment] **2005j:60185**

von Haeseler, Arndt *see* **Metzler, Dirk et al.**, (**2005i:00006**)

Haken, Hermann ★ Synergetics. **2005a:00006**

Hanin, Leonid G. A stochastic model of tumor response to fractionated radiation: limit theorems and rate of convergence. (English summary) **2005c:92017**

Haque, Lani (*with* Zhao, Yiqiang Q.; Liu, Liming) Sufficient conditions for a geometric tail in a QBD process with many countable levels and phases. (English summary)

van Harn, Klaas *see* **Steutel, Fred W.**, **2005j:60004**

Heesterbeek, Hans *see* **Trapman, Pieter et al.**, **2005g:92040**

Hemachandra, N. *see* **Tandra, Rahul et al.**, **2005d:60149**

Herrero, Pablo *see* **Morgenthaler, Stephan et al.**, **2005h:92013**

den Hollander, Frank *see* **Engländer, János**, **2005e:60186**

Holmes, Susan Stein's method for birth and death chains. (English summary) (*see* **2005i:62008**)

Hou, Chuan Zhi (*with* Hu, Di He) Polarization of linear controlled branching processes in random environments. (Chinese. English and Chinese summaries) **2005e:60236**

Hou, Zhen Ting *see* **Zhang, Han Jun et al.**, **2005b:60201**; **Wu, Qun Ying et al.**, **2005f:60161** *and* **Feng, Guang Bo et al.**, **2005m:60245**

Hu, Di He The existence and moments of canonical branching chain in random environment. (English summary) **2005f:60219**

— *see also* **Hou, Chuan Zhi**, **2005e:60236** *and* **Yi, Xiao Wei**, **2005h:60314**

Hu, Fei Fang (*with* Zhang, Li Xin[1]) Asymptotic normality of urn models for clinical trials with delayed response. (English summary) **2005d:62169**

Huillet, Thierry Energy cascades as branching processes with emphasis on Neveu's approach to Derrida's random energy model. (English summary) **2005k:60236**

Istas, Jacques ★ Introduction aux modélisations mathématiques pour les sciences du vivant. (French) [Introduction to mathematical modelling for the life sciences] **2005j:60001**

Jacob, Christine (*with* Viet, Anne-France) Epidemiological modeling in a branching population. Particular case of a general SIS model with two age classes. (English summary) **2005e:92038**

— *see also* **Lalam, Nadia**, **2005j:62168**

Janson, Svante (*with* Mossel, Elchanan) Robust reconstruction on trees is determined by the second eigenvalue. (English summary) **2005h:60296**

— (*with* Chassaing, Philippe) The center of mass of the ISE and the Wiener index of trees. (English summary) **2005k:60303**

Kelbert, M. Ya. (*with* Rachev, Svetlozar T.; Sukhov, Yu. M.) The maximum of a tree-indexed random process, with applications. (English summary) **2005d:60083**

Kersting, Götz *see* **Birkner, Matthias et al.**, (**2005i:00006**)

Knolle, Helmut A discrete branching process model for the spread of HIV via steady sexual partnerships. (English summary) **2005a:92057**

Kozlov, M. V. *see* **Al'beverio, S.**, **2005m:60240**

Krapivsky, Paul L. (*with* Ben-Naim, Eli; Große, Ivo) Stable distributions in stochastic fragmentation. (English summary) **2005j:82029**

Krikun, M. A. A uniformly distributed infinite planar triangulation and a related branching process. (Russian. English and Russian summaries) **2005m:60016**

Kroese, Dirk P. (*with* Scheinhardt, W. R. W.; Taylor, Peter G.) Spectral properties of the tandem Jackson network, seen as a quasi-birth-and-death process. (English summary) **2005k:60242**
Kuznetsov, Alexey Evgenievich *see* **Albanese, Claudio, 2005k:60264**
Lalam, Nadia (*with* Jacob, Christine) Estimation of the offspring mean of a supercritical or near-critical size-dependent branching process. (English and French summaries) **2005j:62168**
Lázaro, Ester *see* **Manrubia, Susanna C. et al.**
(Le Gall, Jean-François) *see* **Dynkin, Eugene B., 2005i:60004**
Lenin, R. B. *see* **Parthasarathy, P. R. et al.**
Le Page, Emile *see* **Guivarc'h, Yves et al., 2005j:60185**
Li, Caixia *see* **Fang, Ji-Qian, (2005c:62003)**
Li, Li Na Large deviation for a density-dependent birth-death process on a countable state space. (Chinese. English and Chinese summaries) **2005f:60069**
Li, Quan-Lin (*with* Liu, Liming) An algorithmic approach for sensitivity analysis of perturbed quasi-birth-and-death processes. (English summary) **2005g:60113**
Li, Zeng Hu (*with* Wang, Hao[5]; Xiong, Jie) A degenerate stochastic partial differential equation for superprocesses with singular interaction. (English summary) **2005k:60197**
— *see also* **Dawson, Donald A. et al., 2005d:60122**
Lin, Xiang *see* **Zhang, Han Jun et al., 2005b:60201**
Liu, Liming *see* **Li, Quan-Lin, 2005g:60113** *and* **Haque, Lani et al.**
Liu, Quansheng *see* **Guivarc'h, Yves et al., 2005j:60185**
Löcherbach, Eva Smoothness of the intensity measure density for interacting branching diffusions with immigrations. (English summary) **2005h:60162**
López-Mimbela, José Alfredo (*with* Villa, J.) Super-Brownian local time: a representation and two applications. **2005g:60123**
— Branching particle representation of a class of semilinear equations. (English summary) **2005f:60184**
Louchard, Guy *see* **Gittenberger, Bernhard, 2005b:60207**
Ma, Chao Qun *see* **Feng, Guang Bo et al., 2005m:60245**
Machado, F. P. (*with* Popov, S. Yu.) Branching random walk in random environment on trees. (English summary) **2005e:60238**
Malyshev, V. A. *see* **Fayolle, Guy et al., (2005d:00014)**
Manjunath, D. *see* **Tandra, Rahul et al., 2005d:60149**
Manrubia, Susanna C. (*with* Arribas, María; Lázaro, Ester) Supercritical branching processes and the role of fluctuations under exponential population growth. (English summary)
Mao, Yong Hua Nash inequalities for Markov processes in dimension one [MR1894847 (2002m:60145)]. (Chinese. English and Chinese summaries)
— Ergodic degrees for continuous-time Markov chains. (English summary) **2005e:60168**
Marckert, Jean-François (*with* Mokkadem, Abdelkader) States spaces of the snake and its tour—convergence of the discrete snake. (English summary) **2005c:60095**
Mayer-Wolf, Eddy (*with* Roitershtein, Alexander; Zeitouni, Ofer) Limit theorems for one-dimensional transient random walks in Markov environments. (English and French summaries) **2005g:60165**
Meester, Ronald *see* **Trapman, Pieter et al., 2005g:92040**
Mei, Qixiang *see* **Zhang, Han Jun et al., 2005b:60201**
Méléard, Sylvie *see* **Fournier, Nicolas, 2005m:60231**
Metzler, Dirk (*with* Fleißner, Roland; Wakolbinger, Anton; von Haeseler, Arndt) Stochastic insertion-deletion processes and statistical sequence alignment. (English summary) (*see* **2005i:00006**)
Miermont, Grégory Self-similar fragmentations derived from the stable tree. I. Splitting at heights. (English summary) **2005m:60163**
Mitov, Kosto V. (*with* Pakes, Anthony G.; Yanev, George P.) Extremes of geometric variables with applications to branching processes. (English summary) **2005k:60164**
— *see also* **Yanev, Nikolaï Mihaylov et al., 2005h:60050**
Mitrofanov, A. Yu. Note on Zeifman's bounds on the rate of convergence for birth-death processes. (English summary) **2005g:60133**
Möhle, M. The time back to the most recent common ancestor in exchangeable population models. (English summary) **2005d:60138**
Mokkadem, Abdelkader *see* **Marckert, Jean-François, 2005c:60095**
Morgenthaler, Stephan (*with* Herrero, Pablo; Thilly, William G.) Multistage carcinogenesis and the fraction at risk. (English summary) **2005h:92013**
Mossel, Elchanan Phase transitions in phylogeny. (English summary) **2005b:82019**
— *see also* **Janson, Svante, 2005h:60296**
Mselati, Benoît Classification and probabilistic representation of the positive solutions of a semilinear elliptic equation. (English summary) **2005j:35069**
Muttlak, Hassen A. *see* **Rakhimov, I. U., 2005e:60052**
Nakayama, Marvin K. (*with* Shahabuddin, Perwez; Sigman, Karl) On finite exponential moments for branching processes and busy periods for queues. (English summary) **2005a:60069**
Ossiander, Mina *see* **Thomann, Enrique, 2005g:76031**
Pakes, Anthony G. *see* **Mitov, Kosto V. et al., 2005k:60164**
Parthasarathy, P. R. (*with* Vijayashree, K. V.; Lenin, R. B.) Fluid queues driven by a birth and death process with alternating flow rates.
Perkins, Edwin A. *see* **Cox, J. Theodore, 2005b:60254**
Pirogov, S. A. *see* **Fayolle, Guy et al., (2005d:00014)**
Pollett, P. K. *see* **Cairns, Ben, 2005m:60165**
Popov, S. Yu. *see* **Machado, F. P., 2005e:60238**
Popovic, Lea Asymptotic genealogy of a critical branching process. (English summary) **2005h:60259**
Rachev, Svetlozar T. *see* **Kelbert, M. Ya. et al., 2005d:60083**
Rakhimov, I. U. (*with* Muttlak, Hassen A.) Random sums of random vectors and multitype families of productive individuals. (English summary) **2005e:60052**
Rao, P. Tirupathi *see* **Srinivasa Rao, Kraleti**
Roitershtein, Alexander *see* **Mayer-Wolf, Eddy et al., 2005g:60165**
Sander, Leonard M. *see* **Doering, Charles R. et al., 2005j:92021**
Sargsyan, Khachik V. *see* **Doering, Charles R. et al., 2005j:92021**
Scheinhardt, W. R. W. *see* **Kroese, Dirk P. et al., 2005k:60242**
Schmuland, Byron *see* **Dawson, Donald A. et al., 2005d:60122**
Sevast'yanov, B. A. Some classes of random mappings of finite sets, and nonhomogeneous branching processes. (Russian. Russian summary) **2005f:60034**
Shahabuddin, Perwez *see* **Nakayama, Marvin K. et al., 2005a:60069**
Sigman, Karl *see* **Nakayama, Marvin K. et al., 2005a:60069**
Srinivasa Rao, Kraleti (*with* Rao, P. Tirupathi) Stochastic model for mutant cell growth with inactivation of allele genes. (English summary)
Steutel, Fred W. (*with* van Harn, Klaas) ★ Infinite divisibility of probability distributions on the real line. **2005j:60004**
Sturm, A. K. *see* **Barton, N. H. et al., 2005e:60190**
Sukhov, Yu. M. *see* **Kelbert, M. Ya. et al., 2005d:60083**
Sun, Wei[3] *see* **Dawson, Donald A. et al., 2005d:60122**
Svishchuk, A. V. (*with* Wu, Jian Hong) ★ Evolution of biological systems in random media: limit theorems and stability. **2005a:60004**
Tandra, Rahul (*with* Hemachandra, N.; Manjunath, D.) Join minimum cost queue for multiclass customers: stability and performance bounds. (English summary) **2005d:60149**
Tang, You Rong *see* **Feng, Guang Bo et al., 2005m:60245**
Taylor, Peter G. *see* **Kroese, Dirk P. et al., 2005k:60242**
Thilly, William G. *see* **Morgenthaler, Stephan et al., 2005h:92013**
Thomann, Enrique (*with* Ossiander, Mina) Stochastic cascades applied to the Navier-Stokes equations. (English summary) **2005g:76031**
Topchiĭ, V. A. *see* **Vatutin, Vladimir A., 2005m:60099**
Trapman, Pieter (*with* Meester, Ronald; Heesterbeek, Hans) A branching model for the spread of infectious animal diseases in varying environments. (English summary) **2005g:92040**
Turova, Tatyana S. Erratum: "Dynamical random graphs with memory" [Phys. Rev. E (3) **65** (2002), no. 6, 066102, 9 pp.; MR1920605 (2003e:60022)].
Utev, Sergei *see* **Barbour, A. D., 2005h:60315**
Van Houdt, B. (*with* Blondia, C.) Tree structured QBD Markov chains and tree-like QBD processes. (English summary) **2005c:60091**
Vatutin, Vladimir A. (*with* Dyakonova, E. E.) Yaglom type limit theorem for branching processes in random environment. (English summary) **2005h:60313**
— (*with* Topchiĭ, V. A.) A limit theorem for critical catalytic branching random walks. (Russian. Russian summary) **2005m:60099**
— *see also* **Dyakonova, E. E. et al., 2005i:60201**
(Verbitskiĭ, I. È.) *see* **Dynkin, Eugene B., 2005i:60004**
Vidyashankar, Anand N. *see* **Basawa, I. V., 2005h:62217**
Viet, Anne-France *see* **Jacob, Christine, 2005e:92038**
Vijayashree, K. V. *see* **Parthasarathy, P. R. et al.**
Villa, J. *see* **López-Mimbela, José Alfredo, 2005g:60123**
Virág, Bálint *see* **Abért, Miklós, 2005m:20058**
Wakolbinger, Anton *see* **Metzler, Dirk et al., (2005i:00006)**
Wang, Hao[5] Singular spacetime Itô's integral and a class of singular interacting branching particle systems. (English summary) **2005k:60309**
— Addendum to: "Singular spacetime Itô's integral and a class of singular interacting branching particle systems" [Infin. Dimens. Anal. Quantum Probab. Relat. Top. **6** (2003), no. 2, 321–335; MR1991498 (2005k:60309)]. **2005k:60310**
— *see also* **Li, Zeng Hu et al., 2005k:60197**
Waymire, Edward C. Probability & incompressible Navier-Stokes equations: an overview of some recent developments. (English summary) **2005j:76071**
Wei, Zhao Ying (*with* Chen, Si Yang) Stability of a stage-structured two-species competitive system with refuges. (Chinese. English and Chinese summaries)
White, Langford B. A new policy evaluation algorithm for Markov decision processes with quasi birth-death structure. (English summary)
Wu, Jian Hong *see* **Svishchuk, A. V., 2005a:60004**
Wu, Qun Ying (*with* Zhang, Han Jun; Hou, Zhen Ting) An extended birth-death Q-matrix with instantaneous state and catastrophes. II. (Chinese. English and Chinese summaries) **2005f:60161**
Xiong, Jie A stochastic log-Laplace equation. (English summary) **2005e:60137**
— *see also* **Li, Zeng Hu et al., 2005k:60197**
Yanev, George P. *see* **Yanev, Nikolaï Mihaylov et al., 2005h:60050** *and* **Mitov, Kosto V. et al., 2005k:60164**
Yanev, Nikolaï Mihaylov (*with* Mitov, Kosto V.; Yanev, George P.) Renewal, regenerative, and branching processes with stable distributions. **2005h:60050**
Yang, Joon-Mo A note on the comparability of business survey indices. (English summary) **2005i:91092**
Yi, Xiao Wei (*with* Hu, Di He) The class of similar birth and death processes in a random environment. (Chinese. English and Chinese summaries) **2005h:60314**
Zähle, Henryk Heat equation with strongly inhomogeneous noise. (English summary) **2005m:60137**
Zeitouni, Ofer *see* **Mayer-Wolf, Eddy et al., 2005g:60165** *and* **Dembo, Amir et al., 2005i:60087**
Zhang, Han Jun (*with* Mei, Qixiang; Lin, Xiang; Hou, Zhen Ting) Convergence property of standard transition functions. (English summary) **2005b:60201**
— *see also* **Wu, Qun Ying et al., 2005f:60161**
Zhang, Li Xin[1] *see* **Hu, Fei Fang, 2005d:62169**
Zhang, Yu Hui[2] Moments of the hitting time for single birth processes. (Chinese. English and Chinese summaries) **2005d:60121**
— *see also* **Chen, Mu-Fa et al., 2005b:34175**
Zhao, Xiaoliang *see* **Chen, Mu-Fa et al., 2005b:34175**
Zhao, Yiqiang Q. *see* **Haque, Lani et al.**

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Gani, Joseph M. Eradicating noxious hosts by parasites. (English summary)
López-Mimbela, José Alfredo Branching particle representation of a class of semilinear equations. (English summary) **2005f:60184**
Mitrofanov, A. Yu. Note on Zeifman's bounds on the rate of convergence for birth-death processes. (English summary) **2005g:60133**

Möhle, M. The time back to the most recent common ancestor in exchangeable population models. (English summary) **2005d:60138**
Popovic, Lea Asymptotic genealogy of a critical branching process. (English summary) **2005h:60259**
Rao, P. Tirupathi *see* **Srinivasa Rao, Kraleti**
Srinivasa Rao, Kraleti (*with* Rao, P. Tirupathi) Stochastic model for mutant cell growth with inactivation of allele genes. (English summary)

Items with secondary classifications in 60J85

Albanese, Claudio (*with* Kuznetsov, Alexey Evgenievich) Affine lattice models. (English summary) **2005k:60264**
Arribas, María *see* **Manrubia, Susanna C. et al.**
Barton, N. H. (*with* Etheridge, Alison M.; Sturm, A. K.) Coalescence in a random background. (English summary) **2005e:60190**
Chassaing, Philippe *see* **Janson, Svante, 2005k:60303**
Dorman, Karin S. (*with* Sinsheimer, Janet S.; Lange, Kenneth) In the garden of branching processes. (English summary)
Etheridge, Alison M. Survival and extinction in a locally regulated population. (English summary) **2005b:60225**
— *see also* **Barton, N. H. et al., 2005e:60190**
Fang, Ji-Qian (*with* Li, Caixia) Stochastic processes and their applications in medical science. (English summary) (*see* **2005c:62003**)
Feng, Guang Bo (*with* Ma, Chao Qun; Hou, Zhen Ting; Tang, You Rong) Brown birth and death processes and their applications to a model of stock price. (Chinese. English and Chinese summaries) **2005m:60245**
Fournier, Nicolas (*with* Méléard, Sylvie) A microscopic probabilistic description of a locally regulated population and macroscopic approximations. (English summary) **2005m:60231**
Geman, Stuart (*with* Johnson, Mark Edward) Probability and statistics in computational linguistics, a brief review. (*see* **2005c:68009**)
Heesterbeek, Hans *see* **Trapman, Pieter et al., 2005g:92040**
Hou, Zhen Ting *see* **Feng, Guang Bo et al., 2005m:60245**
Huillet, Thierry Energy cascades as branching processes with emphasis on Neveu's approach to Derrida's random energy model. (English summary) **2005k:60236**
Istas, Jacques ★ Introduction aux modélisations mathématiques pour les sciences du vivant. (French) [Introduction to mathematical modelling for the life sciences] **2005j:60001**
Janson, Svante (*with* Chassaing, Philippe) The center of mass of the ISE and the Wiener index of trees. (English summary) **2005k:60303**
Johnson, Mark Edward *see* **Geman, Stuart, (2005c:68009)**
Knolle, Helmut A discrete branching process model for the spread of HIV via steady sexual partnerships. (English summary) **2005a:92057**
Krikun, M. A. A uniformly distributed infinite planar triangulation and a related branching process. (Russian. English and Russian summaries) **2005m:60016**
Kumar, B. Krishna (*with* Vijayakumar, Arunachalam) The sojourn time and related characteristics of the age-dependent branching process. (English summary) **2005b:60226**
Kuznetsov, Alexey Evgenievich *see* **Albanese, Claudio, 2005k:60264**
Lange, Kenneth *see* **Dorman, Karin S. et al.**
Lázaro, Ester *see* **Manrubia, Susanna C. et al.**
Li, Caixia *see* **Fang, Ji-Qian, (2005c:62003)**
Ma, Chao Qun *see* **Feng, Guang Bo et al., 2005m:60245**
Manrubia, Susanna C. (*with* Arribas, María; Lázaro, Ester) Supercritical branching processes and the role of fluctuations under exponential population growth. (English summary)
Meester, Ronald *see* **Trapman, Pieter et al., 2005g:92040**
Méléard, Sylvie *see* **Fournier, Nicolas, 2005m:60231**
Mossel, Elchanan Phase transitions in phylogeny. (English summary) **2005b:82019**
Piau, Didier Immortal branching Markov processes: averaging properties and PCR applications. (English summary) **2005a:60136**
Sinsheimer, Janet S. *see* **Dorman, Karin S. et al.**
Sturm, A. K. *see* **Barton, N. H. et al., 2005e:60190**
Svishchuk, A. V. (*with* Wu, Jian Hong) ★ Evolution of biological systems in random media: limit theorems and stability. **2005a:60004**
Tang, You Rong *see* **Feng, Guang Bo et al., 2005m:60245**
Trapman, Pieter (*with* Meester, Ronald; Heesterbeek, Hans) A branching model for the spread of infectious animal diseases in varying environments. (English summary) **2005g:92040**
Vijayakumar, Arunachalam *see* **Kumar, B. Krishna, 2005b:60226**
Wu, Jian Hong *see* **Svishchuk, A. V., 2005a:60004**

60J99 None of the above, but in this section

Alfa, Attahiru Sule *see* **Neuts, Marcel F., 2005k:60279**
Bârză, Ioana Pure and dominant absorbtion O-processes. (English summary) [Pure and dominant absorption O-processes] **2005k:60278**
Burdzy, Krzysztof (*with* White, David) A Gaussian oscillator. (English summary) **2005i:60173**
Feshchenko, O. Yu. On measure-valued processes generated by differential equations. (Ukrainian. English and Ukrainian summaries) **2005f:60185**
Kingman, J. F. C. Extremal problems for regenerative phenomena. (English summary) **2005g:60134**
Neuts, Marcel F. (*with* Alfa, Attahiru Sule) Pair formation in a Markovian arrival process with two event labels. (English summary) **2005k:60279**
Nonnenmacher, Theo F. *see* **Saxena, Ravi K.**
Pemantle, Robin (*with* Skyrms, Brian) Time to absorption in discounted reinforcement models. (English summary) **2005g:60135**
Saxena, Ravi K. (*with* Nonnenmacher, Theo F.) Application of the H-function in Markovian and non-Markovian chain models. (English summary)
Skyrms, Brian *see* **Pemantle, Robin, 2005g:60135**
Stamou, G. B. *see* **Symeonaki, M. A., 2005h:60260**
Symeonaki, M. A. (*with* Stamou, G. B.) Theory of Markov systems with fuzzy states. (English summary) **2005h:60260**
White, David *see* **Burdzy, Krzysztof, 2005i:60173**
Wu, Qun Ying μ-invariant measures for Q-processes—the case containing an absorbing state. (Chinese. English and Chinese summaries) **2005h:60261**

Items with secondary classifications in 60J99

Al'beverio, S. (*with* Kondrat'ev, Yu. G.; Pasurek, Tatiana; Röckner, Michael) Euclidean Gibbs measures of quantum crystals: existence, uniqueness and a priori estimates. (English summary) **2005j:82005**
Chen, Xuerong *see* **Hou, Zhen Ting et al., 2005a:60048**
Fidaleo, Francesco Infinite dimensional entangled Markov chains. (English summary) **2005i:46078**
Gutman, A. E. (*with* Sotnikov, A. I.) Order properties of spaces of finitely additive transition functions. (Russian. Russian summary) **2005e:47102**
Haken, Hermann ★ Synergetics. **2005a:00006**
Hou, Zhen Ting (*with* Liu, Zai Ming; Zou, Jie Zhong; Chen, Xuerong) Markov skeleton processes. (English summary) **2005a:60048**
Katta, Akshay-Kumar (*with* Sethuraman, Jay) A note on bandits with a twist. (English summary) **2005g:90162**
Kholodnyi, Valery A. Valuation and hedging of European contingent claims on power with spikes: a non-Markovian approach. (English summary) **2005e:91082**
King, Sheila (*with* Shiflett, Ray C.) Doubly stochastic operators and the history of Birkhoff's problem 111. **2005e:47080**
Kondrat'ev, Yu. G. *see* **Al'beverio, S. et al., 2005j:82005**
Limnios, Nikolaos A functional central limit theorem for the empirical estimator of a semi-Markov kernel. (English summary) **2005b:60083**
Liu, Zai Ming *see* **Hou, Zhen Ting et al., 2005a:60048**
Pasurek, Tatiana *see* **Al'beverio, S. et al., 2005j:82005**
Röckner, Michael *see* **Al'beverio, S. et al., 2005j:82005**
Rösler, Margit A positive radial product formula for the Dunkl kernel. (English summary) **2005g:33022**
Sethuraman, Jay *see* **Katta, Akshay-Kumar, 2005g:90162**
Shiflett, Ray C. *see* **King, Sheila, 2005e:47080**
Sotnikov, A. I. *see* **Gutman, A. E., 2005e:47102**
Zou, Jie Zhong *see* **Hou, Zhen Ting et al., 2005a:60048**

60Kxx Special processes

60K05 Renewal theory

Baltrūnas, Aleksandras (*with* Omey, E.) Second order renewal theorem in the finite-means case. (Russian summary) **2005b:60228**
(Cheng, Yebin) *see* **Gerber, Hans U., 2005c:60115**
Dickson, David C. M. *see* **Willmot, Gordon E. et al., 2005i:60175**
Drekic, Steve *see* **Willmot, Gordon E. et al., 2005i:60175**
Garrido, José *see* **Li, Shuanming, 2005g:60136**
Gerber, Hans U. (*with* Shiu, Elias S. W.) Comment on: "Moments of the surplus before ruin and the deficit at ruin in the Erlang(2) risk process" [N. Am. Actuar. J. 7 (2003), no. 1, 1–12; MR1986883 (2004f:60185)] by Y. Cheng and Q. Tang. **2005c:60115**
Glynn, Peter W. (*with* Thorisson, Hermann) Limit theory for taboo-regenerative processes. (English summary) **2005f:60186**
Gut, Allan (*with* Steinebach, Josef) Convergence rates and precise asymptotics for renewal counting processes and some first passage times. (English summary) **2005k:60280**
Hu, Taizhong (*with* Ma, Min; Nanda, Asok K.) Characterizations of generalized ageing classes by the excess lifetime. (English summary) **2005h:60262**
Kim, Jongwoo (*with* Lee, Eui Yong; Shim, Gyoocheol) A Markovian approach to the forward recurrence time in the renewal process. (English summary) **2005i:60174**
Kingman, J. F. C. Powers and products of regenerative phenomena. (English summary) **2005f:60187**
Klesov, O. Ĭ. (*with* Steinebach, Josef) The asymptotic behavior of the renewal function constructed from a random walk in multidimensional time with restricted time domain. (English summary) **2005h:60263**
Korolyuk, Vladimir S. (*with* Mamonova, G. V.) Stationary phase consolidation of the superposition of two renewal processes. (Ukrainian. English summary) **2005d:60139**
Lee, Eui Yong *see* **Kim, Jongwoo et al., 2005i:60174**
Levy, Joshua B. *see* **Pipiras, Vladas et al., 2005e:60198**
Li, Shuanming (*with* Garrido, José) On a class of renewal risk models with a constant dividend barrier. (English summary) **2005g:60136**
Ma, Min *see* **Hu, Taizhong et al., 2005h:60262**
Mamonova, G. V. *see* **Korolyuk, Vladimir S., 2005d:60139**
Nanda, Asok K. *see* **Hu, Taizhong et al., 2005h:60262**
Omey, E. *see* **Baltrūnas, Aleksandras, 2005b:60228**
Pipiras, Vladas (*with* Taqqu, Murad S.; Levy, Joshua B.) Slow, fast and arbitrary growth conditions for renewal-reward processes when both the renewals and the rewards are heavy-tailed. (English summary) **2005e:60198**
Sgibnev, M. S. Asymptotics of a generalized matrix renewal function. (Russian. Russian summary) **2005m:60197**
Shim, Gyoocheol *see* **Kim, Jongwoo et al., 2005i:60174**
Shiu, Elias S. W. *see* **Gerber, Hans U., 2005c:60115**
Spouge, John L. Finite-size corrections to Poisson approximations in general renewal-success processes. (English summary) **2005k:60281**
Stanford, David A. *see* **Willmot, Gordon E. et al., 2005i:60175**
Steinebach, Josef *see* **Klesov, O. Ĭ., 2005h:60263** *and* **Gut, Allan, 2005k:60280**
Tang, Qi He Asymptotics for the finite time ruin probability in the renewal model with consistent variation. (English summary) **2005m:60198**
— *see also* **Gerber, Hans U., 2005c:60115**
Taqqu, Murad S. *see* **Pipiras, Vladas et al., 2005e:60198**

Thorisson, Hermann *see* **Glynn, Peter W., 2005f:60186**
Vexler, Albert Approximations to generalized renewal measures. (English summary) **2005f:60188**
Willmot, Gordon E. A note on a class of delayed renewal risk processes. (English summary) **2005a:60138**
— (*with* Dickson, David C. M.; Drekic, Steve; Stanford, David A.) The deficit at ruin in the stationary renewal risk model. **2005i:60175**
Zacks, Shelemyahu Generalized integrated telegraph processes and the distribution of related stopping times. (English summary) **2005b:60229**

Items with secondary classifications in 60K05

Abdel-Hameed, Mohamed S. Optimal predictive maintenance policies for a deteriorating system: the total discounted cost and the long-run average cost cases. (English summary) **2005e:60199**
Agarwal, Ravi P. (*with* Dshalalow, Jewgeni H.; O'Regan, Donal) Random observations of marked Cox processes. Time insensitive functionals. (English summary) **2005g:60076**
— (*with* Dshalalow, Jewgeni H.; O'Regan, Donal) Time sensitive functionals of marked Cox processes. (English summary) **2005g:60077**
Albassam, Mohammad S. *see* **Rao, Calyampudi Radhakrishna et al., 2005a:60116**
Albrecher, Hansjörg (*with* Hartinger, Jürgen; Tichy, Robert F.) On the distribution of dividend payments and the discounted penalty function in a risk model with linear dividend barrier. (English summary)
Alfa, Attahiru Sule Markov chain representations of discrete distributions applied to queueing models. (English summary) **2005c:60092**
Alsmeyer, Gerold (*with* Slavtchova-Bojkova, Maroussia) Limit theorems for subcritical age-dependent branching processes with two types of immigration. (English summary) **2005k:60268**
Anagnostopoulos, Aris (*with* Kirsch, Adam; Upfal, Eli) Load balancing in arbitrary network topologies with stochastic adversarial input. (English summary) **2005k:68014**
Anisimov, Vladimir V. (*with* Gürler, Ülkü) An approximate-analytic method for the analysis of a threshold maintenance policy for a multiphase multicomponent model. (Russian. English and Ukrainian summaries) **2005h:60264**
Baltrūnas, Aleksandras (*with* Omey, E.) Second-order subexponential behavior of subordinated sequences. (English and Lithuanian summaries) **2005c:60006**
Baxendale, Peter H. Renewal theory and computable convergence rates for geometrically ergodic Markov chains. (English summary) **2005m:60164**
Bedford, Tim (*with* Lindqvist, Bo Henry) The identifiability problem for repairable systems subject to competing risks. (English summary) **2005c:60116**
Belzunce, Félix (*with* Semeraro, Patrizia) Preservation of positive and negative orthant dependence concepts under mixtures and applications. (English summary) **2005k:60056**
— (*with* Gao, Xiaoli; Hu, Taizhong; Pellerey, Franco) Characterizations of the hazard rate order and IFR aging notion. (English summary) **2005k:60057**
— (*with* Mercader, José-Angel; Ruiz Gómez, José Maria) Stochastic comparisons of generalized order statistics. (English summary) **2005i:60026**
Bening, V. E. (*with* Korolev, V. Yu.; Liu, Li Xin[2]) Asymptotic behavior of generalized risk processes. (English summary) **2005k:60070**
Bi, Xiu Chun (*with* Yin, Chuan Cun) A local result on probability in renewal risk model. (Chinese. English and Chinese summaries) **2005m:62191**
Boushaba, M. *see* **Ghoraf, N., 2005e:90025**
Brofferio, Sara Renewal theory on the affine group of an oriented tree. (English summary) **2005k:60022**
Buldygin, Valerii V. (*with* Klesov, O. Ī.; Steinebach, Josef) On factorization representations for Avakumović-Karamata functions with nondegenerate groups of regular points. (English and Russian summaries) **2005f:26029**
Chan, Jennifer S. K. *see* **Lam, Yeh et al., 2005a:62023**
Cheng, Feng Yang Ruin probabilities for large claims in generalized delayed renewal risk model. (English summary) **2005h:62283**
Chien, Yu-Hung *see* **Sheu, Shey-Huei, 2005b:60231**
Chiu, S. N. (*with* Yin, Chuan Cun) The time of ruin, the surplus prior to ruin and the deficit at ruin for the classical risk process perturbed by diffusion. (English summary) **2005h:60265**
Chou, Chao-Wei (*with* Huang, Wen-Jang) Characterizations of the gamma distribution via conditional moments. (English summary) **2005b:62030**
Chukova, Stefanka (*with* Hayakawa, Yu) Warranty cost analysis: non-renewing warranty with repair time. (English summary) **2005a:60139**
Cui, Lirong (*with* Xie, Min[1]) Availability of a periodically inspected system with random repair or replacement times. (English summary) **2005k:60282**
De Santis, Emilio (*with* Spizzichino, Fabio) Change-point models and conditionally pure birth processes: an inequality on the stochastic intensity. (English summary) **2005k:60151**
Dieker, A. B. (*with* Mandjes, Michel) On asymptotically efficient simulation of large deviation probabilities. (English summary) **2005m:60051**
Dohi, T. (*with* Kaio, N.; Osaki, S.) Cost-effective analysis of optimal order-replacement policies. (English summary) **2005i:60176**
Doney, R. A. (*with* Maller, Ross A.) Moments of passage times for Lévy processes. (English and French summaries) **2005h:60137**
Dshalalow, Jewgeni H. Fluctuations of recurrent processes and their applications to the stock market. (English summary) **2005d:60140**
— *see also* **Rosson, Hong-Tham T., 2005b:60247**; **Agarwal, Ravi P. et al., 2005g:60076** *and* **2005g:60077**
Du, Yonghong (*with* Wu, Rong[1]) The bi-atomic uniform solution of Schmitter's problem in renewal models. (English and Chinese summaries) **2005m:91117**
Eliazar, Iddo (*with* Klafter, Joseph) A growth-collapse model: Lévy inflow, geometric crashes, and generalized Ornstein-Uhlenbeck dynamics. (English summary) **2005e:82084**
Frolov, Andrei N. Strong limit theorems for increments of renewal processes. (Russian. English and Russian summaries) **2005k:60095**
From, Steven G. Approximating the distribution of a renewal process using generalized Poisson distributions. (English summary)
Fuh, Cheng-Der Uniform Markov renewal theory and ruin probabilities in Markov random walks. (English summary) **2005e:60202**
— Asymptotic operating characteristics of an optimal change point detection in hidden Markov models. (English summary) **2005h:60123**
Gao, Xiaoli *see* **Belzunce, Félix et al., 2005k:60057**
Garrido, José *see* **Li, Shuanming, 2005d:91069** *and* **2005k:60266**
Ghoraf, N. (*with* Boushaba, M.) Fast formula of a reliability of m-consecutive-k-out-of-n: F system with cycle k. (English summary) **2005e:90025**
Gordienko, Evgueni (*with* Mendieta, Mario; Ruiz de Chávez, Juan) Closeness estimates for sums of independent random variables. (English summary) **2005e:60043**
— (*with* Ruiz de Chávez, Juan) Comparison between distributions of sums of random variables and robustness of some applied stochastic models. (English summary) **2005c:60021**
Gorenflo, Rudolf (*with* Vivoli, Alessandro; Mainardi, Francesco) Discrete and continuous random walk models for space-time fractional diffusion. (English summary)
Goychuk, Igor (*with* Hänggi, Peter) Theory of non-Markovian stochastic resonance. (English summary) **2005f:82084**
Gürler, Ülkü *see* **Anisimov, Vladimir V., 2005h:60264**
Gusak, D. V. Modification of the compound Poisson process. (Ukrainian. Ukrainian summary) **2005m:60095**
Hänggi, Peter *see* **Goychuk, Igor, 2005f:82084**
Hao, Xue Kui *see* **Li, Xiao Hu**
van Harn, Klaas *see* **Steutel, Fred W., 2005j:60004**
Hartinger, Jürgen *see* **Albrecher, Hansjörg et al.**
Hayakawa, Yu *see* **Chukova, Stefanka, 2005a:60139**
He, Fangyi *see* **Hu, Taizhong et al., 2005g:60137**
Hollander, Myles *see* **Peña, Edsel A., 2005f:62159**
Hu, Taizhong (*with* He, Fangyi; Khaledi, Baha-Eldin) Characterizations of some aging notions by means of the dispersion-type or dilation-type variability orders. (English and Chinese summaries) **2005g:60137**
— *see also* **Belzunce, Félix et al., 2005k:60057**
Hu, Yi-jun *see* **Liu, Yan[3], 2005j:91048**
Huang, Wen-Jang *see* **Chou, Chao-Wei, 2005b:62030**
Islam, Mohammad Ekramol *see* **Krishnamoorthy, A., 2005b:60230**
Isola, Stefano On the rate of convergence to equilibrium for countable ergodic Markov chains. (English summary) **2005c:60089**
Kaio, N. *see* **Dohi, T. et al., 2005i:60176**
Kang, Kai *see* **Zhang, Xiaohong et al., 2005e:62148**
Khaledi, Baha-Eldin *see* **Hu, Taizhong et al., 2005g:60137**
Khaniev, Tahir A. (*with* Kucuk, Zafer) Asymptotic expansions for the moments of the Gaussian random walk with two barriers. (English summary) **2005h:60267**
Khorshidian, K. (*with* Soltani, A. Reza) Asymptotic behavior of multivariate reward processes with nonlinear reward functions. (English and Persian summaries) **2005a:60142**
Kim, Dae Kyung[2] *see* **Lim, Jae-Hak et al.**
Kirsch, Adam *see* **Anagnostopoulos, Aris et al., 2005k:68014**
Klafter, Joseph *see* **Eliazar, Iddo, 2005e:82084**
Klesov, O. Ī. *see* **Buldygin, Valerii V. et al., 2005f:26029**
Klüppelberg, Claudia (*with* Pergamenshchikov, Sergeĭ) Renewal theory for functionals of a Markov chain with compact state space. (English summary) **2005e:60204**
— (*with* Pergamenshchikov, Sergeĭ) The tail of the stationary distribution of a random coefficient AR(q) model. (English summary) **2005d:62144**
— (*with* Kyprianou, Andreas E.; Maller, Ross A.) Ruin probabilities and overshoots for general Lévy insurance risk processes. (English summary) **2005j:60097**
Korolev, V. Yu. *see* **Bening, V. E. et al., 2005k:60070**
Korolyuk, Vladimir S. (*with* Limnios, Nikolaos) Semi-Markov random walk in Poisson approximation scheme. (English summary) **2005m:60202**
Kovchegov, Y. The Brownian bridge asymptotics in the subcritical phase of Bernoulli bond percolation model. (English summary) **2005j:82035**
Krishnamoorthy, A. (*with* Islam, Mohammad Ekramol) (s, S) inventory system with postponed demands. (English summary) **2005b:60230**
— *see also* **Varghese, T. V., 2005g:60139**
Kucuk, Zafer *see* **Khaniev, Tahir A., 2005h:60267**
Kyprianou, Andreas E. *see* **Klüppelberg, Claudia et al., 2005j:60097**
Lam, Yeh A geometric process maintenance model. (English summary) **2005b:90034**
— (*with* Zhu, Li-Xing; Chan, Jennifer S. K.; Liu, Qun) Analysis of data from a series of events by a geometric process model. (English summary) **2005a:62023**
— (*with* Zhang, Yuan Lin) A shock model for the maintenance problem of a repairable system. (English summary) **2005d:90037**
Li, Haijun On the dependence structure of a system of components with a multivariate shot-noise hazard rate process. (English summary) **2005a:60140**
Li, Shuanming (*with* Garrido, José) On ruin for the Erlang(n) risk process. (English summary) **2005d:91069**
— (*with* Garrido, José) The Gerber-Shiu function in a Sparre Andersen risk process perturbed by diffusion. (English summary) **2005k:60266**
Li, Xiao Hu (*with* Wang, She Jun) Some closure properties of the location independent riskier order. (English and Chinese summaries) **2005h:60056**
— (*with* Hao, Xue Kui) Some properties of the generalized total time on test transform order with applications. (Chinese. English and Chinese summaries)
— (*with* Shaked, Moshe) The observed total time on test and the observed excess wealth. (English summary) **2005h:60057**
— (*with* Yam, Richard C. M.) Reversed preservation properties of some negative aging conceptions and stochastic orders. (English summary) **2005k:60064**
Li, Yan *see* **Wu, Qing Tai et al., 2005m:60200**
Lim, Jae-Hak (*with* Kim, Dae Kyung[2]; Park, Dong Ho) Testing the equality of NBU-ness at a specified age. (English summary)
Limnios, Nikolaos *see* **Korolyuk, Vladimir S., 2005m:60202**
Lin, Daming (*with* Makis, Viliam) Filters and parameter estimation for a partially observable system subject to random failure with continuous-range observations. (English summary) **2005m:60199**
Lindqvist, Bo Henry *see* **Bedford, Tim, 2005c:60116**
Liu, Li Xin[2] *see* **Bening, V. E. et al., 2005k:60070**
Liu, Qun *see* **Lam, Yeh et al., 2005a:62023**

Liu, Yan[3] (*with* Hu, Yi-jun) Risk theory for the model with variable premium rate and disturbed by diffusion in a Markovian environment. (English and Chinese summaries) **2005j:91048**
Mainardi, Francesco *see* **Gorenflo, Rudolf et al.**
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Mandjes, Michel *see* **Dieker, A. B.**, **2005m:60051**
Mendieta, Mario *see* **Gordienko, Evgueni et al.**, **2005e:60043**
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Minkova, Leda D. The Pólya-Aeppli process and ruin problems. **2005f:60189**
— A modified model of risk business. (English summary) **2005c:60117**
Mitov, Kosto V. (*with* Nadarajah, Saralees) Beta distributions in stochastic processes. (*see* **2005j:62007**)
— *see also* **Yanev, Nikolaï Mihaylov et al.**, **2005h:60050**
Moeschlin, O. (*with* Poppinga, C.) Controlling traffic lights at a bottleneck with renewal arrival processes. (English and Spanish summaries)
Nadarajah, Saralees *see* **Mitov, Kosto V.**, (**2005j:62007**)
Omey, E. *see* **Baltrūnas, Aleksandras**, **2005c:60006**
O'Regan, Donal *see* **Agarwal, Ravi P. et al.**, **2005g:60076** *and* **2005g:60077**
Osaki, S. *see* **Dohi, T. et al.**, **2005i:60176**
Park, Dong Ho *see* **Lim, Jae-Hak et al.**
Paroissin, Christian (*with* Ycart, Bernard) Central limit theorem for hitting times of functionals of Markov jump processes. (English summary) **2005h:60071**
Pellerey, Franco *see* **Belzunce, Félix et al.**, **2005k:60057**
Peña, Edsel A. (*with* Hollander, Myles) Models for recurrent events in reliability and survival analysis. (English summary) **2005f:62159**
Pergamenshchikov, Sergeĭ *see* **Klüppelberg, Claudia**, **2005d:62144** *and* **2005e:60204**
Poppinga, C. *see* **Moeschlin, O.**
Rao, Calyampudi Radhakrishna (*with* Albassam, Mohammad S.; Rao, Marepalli Bhaskara; Shanbhag, D. N.) Markov chain approaches to damage models. **2005a:60116**
Rao, Marepalli Bhaskara *see* **Rao, Calyampudi Radhakrishna et al.**, **2005a:60116**
Rosson, Hong-Tham T. (*with* Dshalalow, Jewgeni H.) A non-Markovian queueing system with a variable number of channels. (English summary) **2005b:60247**
Ruiz de Chávez, Juan *see* **Gordienko, Evgueni et al.**, **2005c:60021** *and* **2005e:60043**
Ruiz Gómez, José Maria *see* **Belzunce, Félix et al.**, **2005i:60026**
Santos, Javier *see* **Mallor, Fermín**, **2005e:60200**
de Saporta, Benoîte (*with* Yao, Jian-Feng) Tail of a linear diffusion with Markov switching. (English summary) **2005k:60257**
Semeraro, Patrizia *see* **Belzunce, Félix**, **2005k:60056**
Sen, Pranab Kumar[1] HRQoL and concomitant adjusted mean residual life analysis. (English summary) (*see* **2005d:62008**)
Shaked, Moshe *see* **Li, Xiao Hu**, **2005h:60057**
Shanbhag, D. N. *see* **Rao, Calyampudi Radhakrishna et al.**, **2005a:60116**
Sheu, Shey-Huei (*with* Chien, Yu-Hung) Optimal age-replacement policy of a system subject to shocks with random lead-time. (English summary) **2005b:60231**
Shumskaya, A. A. Accelerated modeling of the unavailability coefficient in a repairable system with an estimate that is bounded with respect to error. (Russian. English and Ukrainian summaries) **2005e:90028**
Silvestrov, Dmitrii S. (*with* Teugels, Józef L.) Limit theorems for mixed max-sum processes with renewal stopping. (English summary) **2005i:60061**
Skuchaĭte, A. Large deviations for sums of independent heavy-tailed random variables. (Russian. English, Russian and Lithuanian summaries) **2005j:60055**
Slavtchova-Bojkova, Maroussia *see* **Alsmeyer, Gerold**, **2005k:60268**
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Steinebach, Josef *see* **Buldygin, Valerii V. et al.**, **2005f:26029**
Steutel, Fred W. (*with* van Harn, Klaas) ★ Infinite divisibility of probability distributions on the real line. **2005j:60004**
Sun, Li-juan *see* **Tsai, Cary Chi-Liang**, **2005f:60042**
Suyono (*with* van der Weide, J. A. M.) A method for computing total downtime distributions in repairable systems. (English summary) **2005g:60138**
Tadj, Lotfi On an $M^1, M^2/G^r/1$ queueing system. (English summary) **2005c:60126**
Teugels, Józef L. *see* **Silvestrov, Dmitrii S.**, **2005i:60061**
Tichy, Robert F. *see* **Albrecher, Hansjörg et al.**
Tsai, Cary Chi-Liang (*with* Sun, Li-juan) On the discounted distribution functions for the Erlang (2) risk process. (English summary) **2005f:60042**
Upfal, Eli *see* **Anagnostopoulos, Aris et al.**, **2005k:68014**
Vanderperre, Edmond J. (*with* Makhanov, Stanislav S.) A Markov time related to a robot-safety device system. (English summary)
Varghese, T. V. (*with* Krishnamoorthy, A.) Inventory system subject to disaster with general interarrival times. (English summary) **2005g:60139**
Vesilo, R. A. Long-range dependence of Markov renewal processes. (English summary) **2005c:60119**
Vivoli, Alessandro *see* **Gorenflo, Rudolf et al.**
Wang, Rong Ming *see* **Zhang, Xiaohong et al.**, **2005e:62148**
Wang, She Jun *see* **Li, Xiao Hu**, **2005h:60056**
van der Weide, J. A. M. *see* **Suyono**, **2005g:60138**
Wu, Qing Tai (*with* Ye, Er Hua; Li, Yan) Reliability analysis of two different components warm standby repairable system with continuous lifetime switch and having priority of the first component. (Chinese. English and Chinese summaries) **2005m:60200**
Wu, Rong[1] *see* **Du, Yonghong**, **2005m:91117**
Wu, Yanhong Bias of estimator of change point detected by a CUSUM procedure. (English summary) **2005d:62126**
Xie, Min[1] *see* **Cui, Lirong**, **2005k:60282**
Yam, Richard C. M. *see* **Li, Xiao Hu**, **2005k:60064**
Yanev, George P. *see* **Yanev, Nikolaï Mihaylov et al.**, **2005h:60050**
Yanev, Nikolaï Mihaylov (*with* Mitov, Kosto V.; Yanev, George P.) Renewal, regenerative, and branching processes with stable distributions. **2005h:60050**
Yao, Jian-Feng *see* **de Saporta, Benoîte**, **2005k:60257**
Ycart, Bernard *see* **Paroissin, Christian**, **2005h:60071**
Ye, Er Hua *see* **Wu, Qing Tai et al.**, **2005m:60200**
Yin, Chuan Cun *see* **Chiu, S. N.**, **2005h:60265** *and* **Bi, Xiu Chun**, **2005m:62191**
Zhang, Xiaohong (*with* Wang, Rong Ming; Kang, Kai) A class of integral equations of Erlang(2) risk process under interest force. (English and Chinese summaries) **2005e:62148**
Zhang, Yuan Lin *see* **Lam, Yeh**, **2005d:90037**
Zhu, Li-Xing *see* **Lam, Yeh et al.**, **2005a:62023**

60K10 Applications (reliability, demand theory, etc.)

Abdel-Hameed, Mohamed S. Optimal predictive maintenance policies for a deteriorating system: the total discounted cost and the long-run average cost cases. (English summary) **2005e:60199**
Albrecher, Hansjörg (*with* Hartinger, Jürgen; Tichy, Robert F.) On the distribution of dividend payments and the discounted penalty function in a risk model with linear dividend barrier. (English summary)
Anisimov, Vladimir V. (*with* Gürler, Ülkü) An approximate-analytic method for the analysis of a threshold maintenance policy for a multiphase multicomponent model. (Russian. English and Ukrainian summaries) **2005h:60264**
Bedford, Tim (*with* Lindqvist, Bo Henry) The identifiability problem for repairable systems subject to competing risks. (English summary) **2005c:60116**
Chien, Yu-Hung *see* **Sheu, Shey-Huei**, **2005b:60231**
Chiu, S. N. (*with* Yin, Chuan Cun) The time of ruin, the surplus prior to ruin and the deficit at ruin for the classical risk process perturbed by diffusion. (English summary) **2005h:60265**
Chukova, Stefanka (*with* Hayakawa, Yu) Warranty cost analysis: non-renewing warranty with repair time. (English summary) **2005a:60139**
Cui, Lirong (*with* Xie, Min[1]) Availability of a periodically inspected system with random repair or replacement times. (English summary) **2005k:60282**
Dohi, T. (*with* Kaio, N.; Osaki, S.) Cost-effective analysis of optimal order-replacement policies. (English summary) **2005i:60176**
Dshalalow, Jewgeni H. Fluctuations of recurrent processes and their applications to the stock market. (English summary) **2005d:60140**
Gürler, Ülkü *see* **Anisimov, Vladimir V.**, **2005h:60264**
Hartinger, Jürgen *see* **Albrecher, Hansjörg et al.**
Hayakawa, Yu *see* **Chukova, Stefanka**, **2005a:60139**
He, Fangyi *see* **Hu, Taizhong et al.**, **2005g:60137**
Hu, Taizhong (*with* He, Fangyi; Khaledi, Baha-Eldin) Characterizations of some aging notions by means of the dispersion-type or dilation-type variability orders. (English and Chinese summaries) **2005g:60137**
Islam, Mohammad Ekramol *see* **Krishnamoorthy, A.**, **2005b:60230**
Kaio, N. *see* **Dohi, T. et al.**, **2005i:60176**
Khaledi, Baha-Eldin *see* **Hu, Taizhong et al.**, **2005g:60137**
Krishnamoorthy, A. (*with* Islam, Mohammad Ekramol) (s, S) inventory system with postponed demands. (English summary) **2005b:60230**
— *see also* **Varghese, T. V.**, **2005g:60139**
Li, Haijun On the dependence structure of a system of components with a multivariate shot-noise hazard rate process. (English summary) **2005a:60140**
Li, Yan *see* **Wu, Qing Tai et al.**, **2005m:60200**
Lin, Daming (*with* Makis, Viliam) Filters and parameter estimation for a partially observable system subject to random failure with continuous-range observations. (English summary) **2005m:60199**
Lindqvist, Bo Henry *see* **Bedford, Tim**, **2005c:60116**
Makhanov, Stanislav S. *see* **Vanderperre, Edmond J.**
Makis, Viliam *see* **Lin, Daming**, **2005m:60199**
Mallor, Fermín (*with* Santos, Javier) Reliability of systems subject to shocks with a stochastic dependence for the damages. (English summary) **2005e:60200**
Minkova, Leda D. The Pólya-Aeppli process and ruin problems. **2005f:60189**
— A modified model of risk business. (English summary) **2005c:60117**
Newby, Martin *see* **Oussalah, Mourad**, **2005e:60201**
Osaki, S. *see* **Dohi, T. et al.**, **2005i:60176**
Oussalah, Mourad (*with* Newby, Martin) Combination of qualitative and quantitative sources of knowledge for risk assessment in the framework of possibility theory. (English summary) **2005e:60201**
Santos, Javier *see* **Mallor, Fermín**, **2005e:60200**
Sen, Pranab Kumar[1] HRQoL and concomitant adjusted mean residual life analysis. (English summary) (*see* **2005d:62008**)
Sheu, Shey-Huei (*with* Chien, Yu-Hung) Optimal age-replacement policy of a system subject to shocks with random lead-time. (English summary) **2005b:60231**
Suyono (*with* van der Weide, J. A. M.) A method for computing total downtime distributions in repairable systems. (English summary) **2005g:60138**
Tichy, Robert F. *see* **Albrecher, Hansjörg et al.**
Vanderperre, Edmond J. (*with* Makhanov, Stanislav S.) A Markov time related to a robot-safety device system. (English summary)
Varghese, T. V. (*with* Krishnamoorthy, A.) Inventory system subject to disaster with general interarrival times. (English summary) **2005g:60139**
van der Weide, J. A. M. *see* **Suyono**, **2005g:60138**
Wu, Qing Tai (*with* Ye, Er Hua; Li, Yan) Reliability analysis of two different components warm standby repairable system with continuous lifetime switch and having priority of the first component. (Chinese. English and Chinese summaries) **2005m:60200**
Xie, Min[1] *see* **Cui, Lirong**, **2005k:60282**
Ye, Er Hua *see* **Wu, Qing Tai et al.**, **2005m:60200**
Yin, Chuan Cun *see* **Chiu, S. N.**, **2005h:60265**

Items with secondary classifications in 60K10

Agarwal, Ravi P. (*with* Dshalalow, Jewgeni H.; O'Regan, Donal) Generalized modulated

random measures and their potentials. (English summary) **2005b:60128**

Albassam, Mohammad S. *see* **Rao, Calyampudi Radhakrishna et al., 2005a:60116**

Alsmeyer, Gerold (*with* Slavtchova-Bojkova, Maroussia) Limit theorems for subcritical age-dependent branching processes with two types of immigration. (English summary) **2005k:60268**

Anagnostopoulos, Aris (*with* Kirsch, Adam; Upfal, Eli) Load balancing in arbitrary network topologies with stochastic adversarial input. (English summary) **2005k:68014**

Belzunce, Félix (*with* Semeraro, Patrizia) Preservation of positive and negative orthant dependence concepts under mixtures and applications. (English summary) **2005k:60056**

— (*with* Gao, Xiaoli; Hu, Taizhong; Pellerey, Franco) Characterizations of the hazard rate order and IFR aging notion. (English summary) **2005k:60057**

— (*with* Mercader, José-Angel; Ruiz Gómez, José Maria) Stochastic comparisons of generalized order statistics. (English summary) **2005i:60026**

Bening, V. E. (*with* Korolev, V. Yu.; Liu, Li Xin[2]) Asymptotic behavior of generalized risk processes. (English summary) **2005k:60070**

Bi, Xiu Chun (*with* Yin, Chuan Cun) A local result on probability in renewal risk model. (Chinese. English and Chinese summaries) **2005m:62191**

Boushaba, M. *see* **Ghoraf, N., 2005e:90025**

Chan, Jennifer S. K. *see* **Lam, Yeh et al., 2005a:62023**

(Cheng, Yebin) *see* **Gerber, Hans U., 2005c:60115**

De Santis, Emilio (*with* Spizzichino, Fabio) Change-point models and conditionally pure birth processes: an inequality on the stochastic intensity. (English summary) **2005k:60151**

Dieker, A. B. (*with* Mandjes, Michel) On asymptotically efficient simulation of large deviation probabilities. (English summary) **2005m:60051**

Dshalalow, Jewgeni H. *see* **Agarwal, Ravi P. et al., 2005b:60128** *and* **Rosson, Hong-Tham T., 2005b:60247**

Du, Yonghong (*with* Wu, Rong[1]) The bi-atomic uniform solution of Schmitter's problem in renewal models. (English and Chinese summaries) **2005m:91117**

Gao, Xiaoli *see* **Belzunce, Félix et al., 2005k:60057**

Garrido, José *see* **Li, Shuanming, 2005g:60136** *and* **2005k:60266**

Gerber, Hans U. (*with* Shiu, Elias S. W.) Comment on: "Moments of the surplus before ruin and the deficit at ruin in the Erlang(2) risk process" [N. Am. Actuar. J. 7 (2003), no. 1, 1–12; MR1986883 (2004f:60185)] by Y. Cheng and Q. Tang. **2005c:60115**

Ghoraf, N. (*with* Boushaba, M.) Fast formula of a reliability of m-consecutive-k-out-of-n: F system with cycle k. (English summary) **2005e:90025**

Gordienko, Evgueni (*with* Mendieta, Mario; Ruiz de Chávez, Juan) Closeness estimates for sums of independent random variables. (English summary) **2005e:60043**

— (*with* Ruiz de Chávez, Juan) Comparison between distributions of sums of random variables and robustness of some applied stochastic models. (English summary) **2005c:60021**

Gusak, D. V. Modification of the compound Poisson process. (Ukrainian. Ukrainian summary) **2005m:60095**

Hao, Xue Kui *see* **Li, Xiao Hu**

Hollander, Myles *see* **Peña, Edsel A., 2005f:62159**

Hu, Taizhong *see* **Belzunce, Félix et al., 2005k:60057**

Hu, Yi-jun *see* **Liu, Yan[3], 2005j:91048**

Kim, Dae Kyung[2] *see* **Lim, Jae-Hak et al.**

Kirsch, Adam *see* **Anagnostopoulos, Aris et al., 2005k:68014**

Klüppelberg, Claudia (*with* Pergamenshchikov, Sergeĭ) The tail of the stationary distribution of a random coefficient AR(q) model. (English summary) **2005d:62144**

Korolev, V. Yu. *see* **Bening, V. E. et al., 2005k:60070**

Lam, Yeh A geometric process maintenance model. (English summary) **2005b:90034**

— (*with* Zhu, Li-Xing; Chan, Jennifer S. K.; Liu, Qun) Analysis of data from a series of events by a geometric process model. (English summary) **2005a:62023**

— (*with* Zhang, Yuan Lin) A shock model for the maintenance problem of a repairable system. (English summary) **2005d:90037**

Last, Günter Ergodicity properties of stress release, repairable system and workload models. (English summary) **2005b:60194**

Li, Shuanming (*with* Garrido, José) On a class of renewal risk models with a constant dividend barrier. (English summary) **2005g:60136**

— (*with* Garrido, José) The Gerber-Shiu function in a Sparre Andersen risk process perturbed by diffusion. (English summary) **2005k:60266**

Li, Xiao Hu (*with* Wang, She Jun) Some closure properties of the location independent riskier order. (English and Chinese summaries) **2005h:60056**

— Some properties of ageing notions based on the moment-generating-function order. **2005b:62034**

— (*with* Hao, Xue Kui) Some properties of the generalized total time on test transform order with applications. (Chinese. English and Chinese summaries)

— (*with* Shaked, Moshe) The observed total time on test and the observed excess wealth. (English summary) **2005h:60057**

— (*with* Yam, Richard C. M.) Reversed preservation properties of some negative aging conceptions and stochastic orders. (English summary) **2005k:60064**

Lim, Jae-Hak (*with* Kim, Dae Kyung[2]; Park, Dong Ho) Testing the equality of NBU-ness at a specified age. (English summary)

Liu, Li Xin[2] *see* **Bening, V. E. et al., 2005k:60070**

Liu, Qun *see* **Lam, Yeh et al., 2005a:62023**

Liu, Yan[3] (*with* Hu, Yi-jun) Risk theory for the model with variable premium rate and disturbed by diffusion in a Markovian environment. (English and Chinese summaries) **2005j:91048**

Mandjes, Michel *see* **Dieker, A. B., 2005m:60051**

Mendieta, Mario *see* **Gordienko, Evgueni et al., 2005e:60043**

Mercader, José-Angel *see* **Belzunce, Félix et al., 2005i:60026**

Moeschlin, O. (*with* Poppinga, C.) Controlling traffic lights at a bottleneck with renewal arrival processes. (English and Spanish summaries)

O'Regan, Donal *see* **Agarwal, Ravi P. et al., 2005b:60128**

Park, Dong Ho *see* **Lim, Jae-Hak et al.**

Paroissin, Christian (*with* Ycart, Bernard) Central limit theorem for hitting times of functionals of Markov jump processes. (English summary) **2005h:60071**

Pellerey, Franco *see* **Belzunce, Félix et al., 2005k:60057**

Peña, Edsel A. (*with* Hollander, Myles) Models for recurrent events in reliability and survival analysis. (English summary) **2005f:62159**

Pergamenshchikov, Sergeĭ *see* **Klüppelberg, Claudia, 2005d:62144**

Poppinga, C. *see* **Moeschlin, O.**

Rao, Calyampudi Radhakrishna (*with* Albassam, Mohammad S.; Rao, Marepalli Bhaskara; Shanbhag, D. N.) Markov chain approaches to damage models. **2005a:60116**

Rao, Marepalli Bhaskara *see* **Rao, Calyampudi Radhakrishna et al., 2005a:60116**

Rosson, Hong-Tham T. (*with* Dshalalow, Jewgeni H.) A non-Markovian queueing system with a variable number of channels. (English summary) **2005b:60247**

Ruiz de Chávez, Juan *see* **Gordienko, Evgueni et al., 2005c:60021** *and* **2005e:60043**

Ruiz Gómez, José Maria *see* **Belzunce, Félix et al., 2005i:60026**

Semeraro, Patrizia *see* **Belzunce, Félix, 2005k:60056**

Shaked, Moshe *see* **Li, Xiao Hu, 2005h:60057**

Shanbhag, D. N. *see* **Rao, Calyampudi Radhakrishna et al., 2005a:60116**

Shiu, Elias S. W. *see* **Gerber, Hans U., 2005c:60115**

Shumskaya, A. A. Accelerated modeling of the unavailability coefficient in a repairable system with an estimate that is bounded with respect to error. (Russian. English and Ukrainian summaries) **2005e:90028**

Skuchaĭte, A. Large deviations for sums of independent heavy-tailed random variables. (Russian. English, Russian and Lithuanian summaries) **2005j:60055**

Slavtchova-Bojkova, Maroussia *see* **Alsmeyer, Gerold, 2005k:60268**

Spizzichino, Fabio *see* **De Santis, Emilio, 2005k:60151**

Spouge, John L. Finite-size corrections to Poisson approximations in general renewal-success processes. (English summary) **2005k:60281**

Tadj, Lotfi On an $M^1, M^2/G^r/1$ queueing system. (English summary) **2005c:60126**

Tang, Qi He Asymptotics for the finite time ruin probability in the renewal model with consistent variation. (English summary) **2005m:60198**

— *see also* **Gerber, Hans U., 2005c:60115**

Upfal, Eli *see* **Anagnostopoulos, Aris et al., 2005k:68014**

Wang, She Jun *see* **Li, Xiao Hu, 2005h:60056**

Willmot, Gordon E. A note on a class of delayed renewal risk processes. (English summary) **2005a:60138**

Wu, Rong[1] *see* **Du, Yonghong, 2005m:91117**

Yam, Richard C. M. *see* **Li, Xiao Hu, 2005k:60064**

Ycart, Bernard *see* **Paroissin, Christian, 2005h:60071**

Yin, Chuan Cun *see* **Bi, Xiu Chun, 2005m:62191**

Zhang, Yuan Lin *see* **Lam, Yeh, 2005d:90037**

Zhu, Li-Xing *see* **Lam, Yeh et al., 2005a:62023**

60K15 Markov renewal processes, semi-Markov processes

Alieva, T. A. (*with* Nasirova, T. I.) Ergodic distribution of a resource of a system. (Russian. English and Ukrainian summaries) **2005m:60201**

Babayev, Shamil A. Investigation of the boundary functional of the semi-Markov process with negative drift and delaying screen in the zero. (English summary)

Bratiĭchuk, N. S. Semi-Markov walks in queueing and risk theory. (*see* **2005d:00014**)

Dzhalladova, I. A. Stochastic Lyapunov functions for a system of nonlinear difference equations. (Russian. English and Ukrainian summaries) **2005b:60232**

— *see also* **Valeev, K. G., 2005e:60205**

Ēleĭko, Ya. Ī. (*with* Zhernovoĭ, Yu. V.) Asymptotic properties of random evolutions constructed on the basis of solutions of systems of ordinary differential equations. (Ukrainian. English, Russian and Ukrainian summaries) **2005h:60266**

Erhardsson, Torkel Strong memoryless times and rare events in Markov renewal point processes. (English summary) **2005c:60118**

Fuh, Cheng-Der Uniform Markov renewal theory and ruin probabilities in Markov random walks. (English summary) **2005e:60202**

Girardin, Valerie (*with* Limnios, Nikolaos) On the entropy for semi-Markov processes (English summary) **2005a:60141**

— (*with* Limnios, Nikolaos) Entropy rate and maximum entropy methods for countable semi-Markov chains. (English summary) **2005b:60233**

Jaśkiewicz, A. On the equivalence of two expected average cost criteria for semi-Markov control processes. (English summary) **2005e:60203**

Khaniev, Tahir A. On the additive functional of a semi-Markovian random walk with two reflecting barriers. (English summary) **2005d:60141**

— (*with* Kucuk, Zafer) Asymptotic expansions for the moments of the Gaussian random walk with two barriers. (English summary) **2005h:60267**

Khorshidian, K. (*with* Soltani, A. Reza) Asymptotic behavior of multivariate reward processes with nonlinear reward functions. (English and Persian summaries) **2005a:60142**

Klüppelberg, Claudia (*with* Pergamenshchikov, Sergeĭ) Renewal theory for functionals of a Markov chain with compact state space. (English summary) **2005e:60204**

Korolyuk, Vladimir S. (*with* Limnios, Nikolaos) Semi-Markov random walk in Poisson approximation scheme. (English summary) **2005m:60202**

Kucuk, Zafer *see* **Khaniev, Tahir A., 2005h:60267**

Latouche, Guy (*with* Takine, Tetsuya) Markov-renewal fluid queues. (English summary) **2005d:60142**

Limnios, Nikolaos *see* **Girardin, Valerie, 2005a:60141; 2005b:60233** *and* **Korolyuk, Vladimir S., 2005m:60202**

Nasirova, T. I. *see* **Alieva, T. A., 2005m:60201**

Niţă, Alina On the cumulative reward moments in some semi-Markov processes. (English and Romanian summaries) **2005a:60143**

Pergamenshchikov, Sergeĭ *see* **Klüppelberg, Claudia, 2005e:60204**

Shlepakov, L. N. *see* **Vovkodav, N. G., 2005j:60160**

Sivasamy, R. (*with* Thillaigovindan, N.) A general filtering technique for Markov renewal processes. (English summary)

Soltani, A. Reza *see* **Khorshidian, K., 2005a:60142**

Takine, Tetsuya *see* **Latouche, Guy, 2005d:60142**

Thillaigovindan, N. *see* **Sivasamy, R.**

Tsakiridou, Helen L. *see* **Vassiliou, P.-C. G., 2005g:60140**

Valeev, K. G. (*with* Dzhalladova, I. A.) Derivation of moment equations for solutions of a system of nonlinear difference equations that depends on a semi-Markov process.

(Russian. English and Ukrainian summaries) **2005e:60205**

Vassiliou, P.-C. G. (*with* Tsakiridou, Helen L.) Asymptotic behavior of first passage probabilities in the perturbed non-homogeneous semi-Markov systems. (English summary) **2005g:60140**

Vesilo, R. A. Long-range dependence of Markov renewal processes. (English summary) **2005c:60119**

Vovkodav, N. G. (*with* Shlepakov, L. N.) On the optimal efficiency factor of a semi-Markov system in a phase enlargement scheme. (Russian. English and Ukrainian summaries) **2005j:60160**

Wehrly, Thomas E. *see* **Yu, Jihnhee**

Yu, Jihnhee (*with* Wehrly, Thomas E.) An approach to the residence time distribution for stochastic multi-compartment models. (English summary)

Zhernovoĭ, Yu. V. *see* **Ēleĭko, Ya. Ĭ., 2005h:60266**

Items with secondary classifications in 60K15

Abdel-Rehim, Entsar A. *see* **Gorenflo, Rudolf, 2005m:60161**

Agarwal, Ravi P. (*with* Dshalalow, Jewgeni H.; O'Regan, Donal) Generalized modulated random measures and their potentials. (English summary) **2005b:60128**

Alvarez, Enrique E. Estimation in stationary Markov renewal processes, with application to earthquake forecasting in Turkey. (English summary)

Barbu, Vlad (*with* Limnios, Nikolaos) Discrete time semi-Markov processes for reliability and survival analysis—a nonparametric estimation approach. (English summary) (*see* **2005d:62008**)

Cao, Xi-Ren *see* **Fang, Hai-Tao, 2005d:90133**

Chabanyuk, Ya. M. A continuous procedure for stochastic approximation in a semi-Markov environment. (Ukrainian. English and Ukrainian summaries) **2005h:62213**

Dragut, A. B. (*with* Dragut, M.) Clustering based approximation procedure for semi-Markov decision processes with incomplete state information. (English summary) **2005c:62111**

Dragut, M. *see* **Dragut, A. B., 2005c:62111**

Dshalalow, Jewgeni H. Fluctuations of recurrent processes and their applications to the stock market. (English summary) **2005d:60140**

— *see also* **Agarwal, Ravi P. et al., 2005b:60128**

Dudin, Aleksandr *see* **Klimenok, Valentina et al., 2005k:60287**

El-Gohary, Awad I. Estimations of parameters in a three state reliability semi-Markov model. (English summary) **2005k:62232**

Fang, Hai-Tao (*with* Cao, Xi-Ren) Potential-based online policy iteration algorithms for Markov decision processes. (English summary) **2005d:90133**

Foley, Robert D. (*with* McDonald, David R.) Bridges and networks: exact asymptotics. (English summary) **2005m:60209**

Fuh, Cheng-Der Asymptotic operating characteristics of an optimal change point detection in hidden Markov models. (English summary) **2005h:60123**

Gao, Wen[1] *see* **Tan, Guo-zhen et al., 2005i:62145**

Girardin, Valerie Entropy maximization for Markov and semi-Markov processes. (English summary) **2005a:60117**

Gordienko, Evgueni (*with* Mendieta, Mario; Ruiz de Chávez, Juan) Closeness estimates for sums of independent random variables. (English summary) **2005e:60043**

Gorenflo, Rudolf (*with* Abdel-Rehim, Entsar A.) From power laws to fractional diffusion: the direct way. (English summary) **2005m:60161**

Günther, Marco (*with* Klar, Axel; Materne, Thorsten; Wegener, Raimund) Multivalued fundamental diagrams and stop and go waves for continuum traffic flow equations. (English summary) **2005a:90029**

Gupta, Praveen (*with* Rathore, Arti) A reparable system working under three modes of workload and two types of repair. (English summary)

Gusak, D. V. Modification of the compound Poisson process. (Ukrainian. Ukrainian summary) **2005m:60095**

Gutiérrez, Cristina (*with* Macdonald, Angus S.) Huntington's disease, critical illness insurance and life insurance. (English summary)

Hochberg, Kenneth J. (*with* Shmerling, Efraim) Stability and optimal control for semi-Markov jump parameter linear systems. (English summary) **2005i:60159**

Hou, Zhen Ting (*with* Luo, Jiaowan; Shi, Peng) Stochastic stability of linear systems with semi-Markovian jump parameters. (English summary) **2005k:93234**

Huzurbazar, Aparna V. ★ Flowgraph models for multistate time-to-event data. **2005f:62002**

Jelenković, Predrag R. (*with* Radovanović, Ana) Least-recently-used caching with dependent requests. (English summary) **2005e:68247**

Kawanishi, Ken'ichi On the counting process for a class of Markovian arrival processes with an application to a queueing system. (English summary)

Kegan, Bonnie (*with* West, R. Webster) Modeling the simple epidemic with deterministic differential equations and random initial conditions. (English summary) **2005m:92057**

Kempa, Wojciech The virtual waiting time for the batch arrival queueing systems. (English summary) **2005f:60201**

Khaniev, Tahir A. Some asymptotic results for the semi-Markovian random walk with a special barrier. (English summary) **2005c:60050**

Kharlamov, B. P. Choosing the starting time of insurance. (Russian. Russian summary) **2005e:91102**

Kim, Che Soong *see* **Klimenok, Valentina et al., 2005k:60287**

Klar, Axel *see* **Günther, Marco et al., 2005a:90029**

Klimenok, Valentina (*with* Kim, Che Soong; Orlovskii, Dmitrii S.; Dudin, Aleksandr) Lack of invariant property of the Erlang loss model in case of MAP input. (English summary) **2005k:60287**

Klüppelberg, Claudia (*with* Kyprianou, Andreas E.; Maller, Ross A.) Ruin probabilities and overshoots for general Lévy insurance risk processes. (English summary) **2005j:60097**

Ko, Sung-Seok (*with* Serfozo, Richard F.) Response times in $M/M/s$ fork-join networks. (English summary) **2005c:60120**

Korolyuk, Vladimir S. (*with* Limnios, Nikolaos) Compound Poisson approximation with drift for stochastic additive functionals with Markov and semi-Markov switching. (English summary) (*see* **2005f:60007**)

Kyprianou, Andreas E. *see* **Klüppelberg, Claudia et al., 2005j:60097**

Ledoux, James On the asymptotic analysis of Littlewood's reliability model for modular software. (English summary) **2005f:60113**

Li, Gang[7] (*with* Luo, Jiaowan) Shock model in Markovian environment. (English summary) **2005i:90014**

Limnios, Nikolaos A functional central limit theorem for the empirical estimator of a semi-Markov kernel. (English summary) **2005b:60083**

— *see also* **Barbu, Vlad, (2005d:62008)** *and* **Korolyuk, Vladimir S., (2005f:60007)**

Luo, Jiaowan *see* **Li, Gang[7], 2005i:90014** *and* **Hou, Zhen Ting et al., 2005k:93234**

Luque-Vásquez, Fernando (*with* Vega-Amaya, Oscar) Time and ratio expected average cost optimality for semi-Markov control processes on Borel spaces. (English summary) **2005f:90150**

Macdonald, Angus S. *see* **Gutiérrez, Cristina**

Maller, Ross A. *see* **Klüppelberg, Claudia et al., 2005j:60097**

Maskell, Simon Joint tracking of manoeuvring targets and classification of their manoeuvrability. (English summary)

Materne, Thorsten *see* **Günther, Marco et al., 2005a:90029**

McDonald, David R. ★ Elements of applied probability for engineering, mathematics and systems science. **2005f:60002**

— *see also* **Foley, Robert D., 2005m:60209**

Mendieta, Mario *see* **Gordienko, Evgueni et al., 2005e:60043**

Miyazawa, Masakiyo (*with* Zhao, Yiqiang Q.) The stationary tail asymptotics in the $GI/G/1$-type queue with countably many background states. (English summary) **2005h:60280**

— A Markov renewal approach to $M/G/1$ type queues with countably many background states. (English summary) **2005h:60281**

Nakayama, Marvin K. (*with* Shahabuddin, Perwez) Quick simulation methods for estimating the unreliability of regenerative models of large, highly reliable systems. (English summary) **2005f:60190**

O'Regan, Donal *see* **Agarwal, Ravi P. et al., 2005b:60128**

Orlovskii, Dmitrii S. *see* **Klimenok, Valentina et al., 2005k:60287**

Özekici, Süleyman (*with* Soyer, Refik) Reliability modeling and analysis in random environments. (English summary) (*see* **2005a:62018**)

Polesskiĭ, V. P. Untying of clutter-family supports and its role in the theory of the reliability of monotone structures. (Russian. Russian summary) **2005h:90029**

Pons, Odile Estimation in a model for a semi-Markov process with covariates under right-censoring. (English summary) **2005f:62133**

Radovanović, Ana *see* **Jelenković, Predrag R., 2005e:68247**

Rathore, Arti *see* **Gupta, Praveen**

Reinhard, J. M. (*with* Snoussi, M.) A monotonically converging algorithm for the severity of ruin in a discrete semi-Markov risk model. (English summary)

Ruiz de Chávez, Juan *see* **Gordienko, Evgueni et al., 2005e:60043**

Serfozo, Richard F. *see* **Ko, Sung-Seok, 2005c:60120**

Sethi, Suresh P. (*with* Zhang, Han Qin; Zhang, Qing[1]) ★ Average-cost control of stochastic manufacturing systems. **2005k:93002**

Shahabuddin, Perwez *see* **Nakayama, Marvin K., 2005f:60190**

Shi, Peng *see* **Hou, Zhen Ting et al., 2005k:93234**

Shmerling, Efraim *see* **Hochberg, Kenneth J., 2005i:60159**

Silvestrov, Dmitrii S. (*with* Stenberg, Fredrik) A pricing process with stochastic volatility controlled by a semi-Markov process. (English summary) **2005a:60144**

Snoussi, M. *see* **Reinhard, J. M.**

Soyer, Refik *see* **Özekici, Süleyman, (2005a:62018)**

Stadje, Wolfgang (*with* Zacks, Shelemyahu) Telegraph processes with random velocities. (English summary) **2005g:60116**

Stenberg, Fredrik *see* **Silvestrov, Dmitrii S., 2005a:60144**

Sukhov, Yu. M. (*with* Vvedenskaya, N. D.) Fast Jackson networks with dynamic routing. (Russian. Russian summary) **2005e:90012**

Tadj, Lotfi On a bilevel bulk queueing system under T-policy. (English summary) **2005f:60207**

Takagi, Hideaki *see* **Wu, De-An, 2005m:60219**

Takine, Tetsuya Geometric and subexponential asymptotics of Markov chains of $M/G/1$ type. (English summary) **2005e:60220**

Tan, Guo-zhen (*with* Xia, Xiang-fu; Gao, Wen[1]) Reliability theory model and expected life shortest path in stochastic and time-dependent networks. (English summary) **2005i:62145**

Vega-Amaya, Oscar *see* **Luque-Vásquez, Fernando, 2005f:90150**

Vvedenskaya, N. D. *see* **Sukhov, Yu. M., 2005e:90012**

Wegener, Raimund *see* **Günther, Marco et al., 2005a:90029**

West, R. Webster *see* **Kegan, Bonnie, 2005m:92057**

Wilson, Simon P. Modeling the reliability of hip replacements. (English summary) (*see* **2005a:62018**)

Wu, De-An (*with* Takagi, Hideaki) Processor-sharing and random-service queues with semi-Markovian arrivals. (English summary) **2005m:60219**

Xia, Xiang-fu *see* **Tan, Guo-zhen et al., 2005i:62145**

Zacks, Shelemyahu Exact determination of the run length distribution of a one-sided CUSUM procedure applied on an ordinary Poisson process. (English summary) **2005c:60061**

— *see also* **Stadje, Wolfgang, 2005g:60116**

Zazanis, Michael A. Cycle times in single server cyclic Jackson networks. (English summary) **2005a:90022**

Zhang, Han Qin *see* **Sethi, Suresh P. et al., 2005k:93002**

Zhang, Qing[1] *see* **Sethi, Suresh P. et al., 2005k:93002**

Zhao, Yiqiang Q. *see* **Miyazawa, Masakiyo, 2005h:60280**

60K20 Applications of Markov renewal processes (reliability, queueing networks, etc.) [see also 90Bxx]

Alvarez, Enrique E. Estimation in stationary Markov renewal processes, with application to earthquake forecasting in Turkey. (English summary)

Barbu, Vlad (*with* Limnios, Nikolaos) Discrete time semi-Markov processes for reliability and survival analysis—a nonparametric estimation approach. (English summary) (*see*

2005d:62008)
Belavin, Il'ya V. *see* **Zayats, Oleg I., 2005j:60161**
Gupta, Praveen (*with* Rathore, Arti) A reparable system working under three modes of workload and two types of repair. (English summary)
Gutiérrez, Cristina (*with* Macdonald, Angus S.) Huntington's disease, critical illness insurance and life insurance. (English summary)
Kawanishi, Ken'ichi On the counting process for a class of Markovian arrival processes with an application to a queueing system. (English summary)
Ko, Sung-Seok (*with* Serfozo, Richard F.) Response times in $M/M/s$ fork-join networks. (English summary) **2005c:60120**
Limnios, Nikolaos *see* **Barbu, Vlad,** (2005d:62008)
Macdonald, Angus S. *see* **Gutiérrez, Cristina**
Nakayama, Marvin K. (*with* Shahabuddin, Perwez) Quick simulation methods for estimating the unreliability of regenerative models of large, highly reliable systems. (English summary) **2005f:60190**
Özekici, Süleyman (*with* Soyer, Refik) Reliability modeling and analysis in random environments. (English summary) (*see* **2005a:62018**)
Rathore, Arti *see* **Gupta, Praveen**
Reinhard, J. M. (*with* Snoussi, M.) A monotonically converging algorithm for the severity of ruin in a discrete semi-Markov risk model. (English summary)
Serfozo, Richard F. *see* **Ko, Sung-Seok, 2005c:60120**
Shahabuddin, Perwez *see* **Nakayama, Marvin K., 2005f:60190**
Silvestrov, Dmitrii S. (*with* Stenberg, Fredrik) A pricing process with stochastic volatility controlled by a semi-Markov process. (English summary) **2005a:60144**
Snoussi, M. *see* **Reinhard, J. M.**
Soyer, Refik *see* **Özekici, Süleyman,** (2005a:62018)
Stenberg, Fredrik *see* **Silvestrov, Dmitrii S., 2005a:60144**
Zayats, Oleg I. (*with* Belavin, Il'ya V.) Application of Pugachev-Sveshnikov equation in reliability theory. (English summary) **2005j:60161**

Items with secondary classifications in 60K20

Benati, Stefano The computation of the worst conditional expectation. (English summary) **2005k:90076**
Cao, Xi-Ren *see* **Fang, Hai-Tao, 2005d:90133**
Dudin, Aleksandr *see* **Klimenok, Valentina et al., 2005k:60287**
El-Gohary, Awad I. Estimations of parameters in a three state reliability semi-Markov model. (English summary) **2005k:62232**
Fang, Hai-Tao (*with* Cao, Xi-Ren) Potential-based online policy iteration algorithms for Markov decision processes. (English summary) **2005d:90133**
Foley, Robert D. (*with* McDonald, David R.) Bridges and networks: exact asymptotics. (English summary) **2005m:60209**
Gao, Wen[1] *see* **Tan, Guo-zhen et al., 2005i:62145**
Kegan, Bonnie (*with* West, R. Webster) Modeling the simple epidemic with deterministic differential equations and random initial conditions. (English summary) **2005m:92057**
Khaniev, Tahir A. On the additive functional of a semi-Markovian random walk with two reflecting barriers. (English summary) **2005d:60141**
Kim, Che Soong *see* **Klimenok, Valentina et al., 2005k:60287**
Klimenok, Valentina (*with* Kim, Che Soong; Orlovskii, Dmitrii S.; Dudin, Aleksandr) Lack of invariant property of the Erlang loss model in case of MAP input. (English summary) **2005k:60287**
Ledoux, James On the asymptotic analysis of Littlewood's reliability model for modular software. (English summary) **2005f:60113**
Li, Gang[7] (*with* Luo, Jiaowan) Shock model in Markovian environment. (English summary) **2005i:90014**
Liu, Yan[5] *see* **Tang, Ying Hui**
Luo, Jiaowan *see* **Li, Gang[7], 2005i:90014**
McDonald, David R. *see* **Foley, Robert D., 2005m:60209**
Miyazawa, Masakiyo A Markov renewal approach to $M/G/1$ type queues with countably many background states. (English summary) **2005h:60281**
Orlovskii, Dmitrii S. *see* **Klimenok, Valentina et al., 2005k:60287**
Polesskiĭ, V. P. Untying of clutter-family supports and its role in the theory of the reliability of monotone structures. (Russian. Russian summary) **2005h:90029**
Ridder, Ad Importance sampling simulations of Markovian reliability systems using cross-entropy. (English summary) **2005k:90013**
Sethi, Suresh P. (*with* Zhang, Han Qin; Zhang, Qing[1]) ★ Average-cost control of stochastic manufacturing systems. **2005k:93002**
Sukhov, Yu. M. (*with* Vvedenskaya, N. D.) Fast Jackson networks with dynamic routing. (Russian. Russian summary) **2005e:90012**
Tadj, Lotfi On a bilevel bulk queueing system under T-policy. (English summary) **2005f:60207**
Tan, Guo-zhen (*with* Xia, Xiang-fu; Gao, Wen[1]) Reliability theory model and expected life shortest path in stochastic and time-dependent networks. (English summary) **2005i:62145**
Tang, Ying Hui (*with* Liu, Yan[5]) Reliability analysis of a two-different-unit cold standby repairable system with delay repair. (Chinese. English and Chinese summaries)
Vvedenskaya, N. D. *see* **Sukhov, Yu. M., 2005e:90012**
West, R. Webster *see* **Kegan, Bonnie, 2005m:92057**
Wilson, Simon P. Modeling the reliability of hip replacements. (English summary) (*see* **2005a:62018**)
Xia, Xiang-fu *see* **Tan, Guo-zhen et al., 2005i:62145**
Zacks, Shelemyahu Exact determination of the run length distribution of a one-sided CUSUM procedure applied on an ordinary Poisson process. (English summary) **2005c:60061**
Zazanis, Michael A. Cycle times in single server cyclic Jackson networks. (English summary) **2005a:90022**
Zhang, Han Qin *see* **Sethi, Suresh P. et al., 2005k:93002**
Zhang, Qing[1] *see* **Sethi, Suresh P. et al., 2005k:93002**

60K25 Queueing theory [see also 68M20, 90B22]

Abolnikov, Lev (*with* Dukhovny, Alexander) Optimization in HIV screening problems. (English summary) **2005a:60145**
Abu Al-Rub, Adel Z. *see* **Madan, Kailash C., 2005a:60149**
Adan, Ivo J. B. F. *see* **Smits, Sanne R. et al.** *and* **van Vuuren, Marcel**
Agrawal, Rajeev (*with* Baccelli, François; Rajan, Rajendran) An algebra for queueing networks with time-varying service and its application to the analysis of integrated service networks. (English summary) **2005h:60268**
Ahn, Soohan (*with* Ramaswami, V.) Fluid flow models and queues—a connection by stochastic coupling. (English summary) **2005e:60206**
Alfa, Attahiru Sule Analysis of a $GI/G^Y/1$ system in discrete-time. (English summary)
Almási, B. A queueing model for a non-homogeneous polling system subject to breakdowns. (English summary)
— (*with* Bolch, G.; Sztrik, János) Analyzing Markov-modulated finite source queueing systems. (English summary)
— (*with* Bolch, G.; Sztrik, János) Heterogeneous finite-source retrial queues.
Al-Rawwash, Mohammad *see* **Madan, Kailash C.**
Al-Seedy, R. O. Queuing with fixed and variable channels considering balking and reneging concepts. (English summary)
— A transient solution of the non-truncated queue $M/M/2$ with balking, and an additional server for longer queues (Krishnamoorthi discipline). (English summary)
Antunes, Nelson (*with* Nunes, Cláudia; Pacheco, António) Functionals of Markovian branching D-BMAPs. (English summary) **2005m:60203**
Arazi, Arnon (*with* Ben-Jacob, Eshel; Yechiali, Uri) Bridging genetic networks and queueing theory. (English summary) **2005b:60234**
Arikan, Erdal Correction to: "On the reliability exponent of the exponential server timing channel" [IEEE Trans. Inform. Theory **48** (2002), no. 6, 1681–1689; MR1909480 (2004c:60247)]. **2005g:60141**
Artalejo, Jesus R. (*with* Atencia, Ivan) On the single server retrial queue with batch arrivals. (English summary) **2005c:60121**
Asmussen, Søren (*with* Pihlsgård, Mats) Transient properties of many-server queues and related QBDs. (English summary) **2005e:60207**
Ata, Barış (*with* Kumar, Sunil[1]) Heavy traffic analysis of open processing networks with complete resource pooling: asymptotic optimality of discrete review policies. (English summary) **2005k:60283**
Atar, Rami A diffusion model of scheduling control in queueing systems with many servers. (English summary) **2005j:60162**
Atencia, Ivan (*with* Moreno, Pilar) A queueing system with linear repeated attempts, Bernoulli schedule and feedback. (English summary) **2005f:60191**
— (*with* Moreno, Pilar) A discrete-time $Geo/G/1$ retrial queue with general retrial times. (English summary) **2005j:60163**
— *see also* **Artalejo, Jesus R., 2005c:60121**
Avi-Itzhak, Benjamin (*with* Levy, Hanoch) On measuring fairness in queues. (English summary) **2005f:60192**
Avrachenkov, Konstantin E. (*with* Shevlyakov, G. L.; Vilchevskii, N. O.) Randomized push-out disciplines in priority queueing. **2005f:60193**
Ayhan, Hayriye (*with* Palmowski, Zbigniew; Schlegel, Sabine) Cyclic queueing networks with subexponential service times. (English summary) **2005d:60143**
Ayyappan, G. (*with* Kalyanaraman, R.; Velmurugan, S.) Two units connected in series with accessible and non-accessible batch service and random breakdown in unit 2. (English summary)
Baburaj, C. (*with* Manoharan, M.) On the optimal control limit of a single and batch service $M/G/1$ queue. (English summary) **2005m:60204**
Baccelli, François (*with* Foss, S. G.) Moments and tails in monotone-separable stochastic networks. (English summary) **2005c:60122**
— (*with* Lelarge, Marc; Foss, S. G.) Asymptotics of subexponential max plus networks: the stochastic event graph case. (English summary) **2005e:60208**
— *see also* **Agrawal, Rajeev et al., 2005h:60268**
Bashtova, E. E. Virtual waiting time in a system with a Markov-modulated input stream (Russian) **2005k:60284**
Baum, Dieter (*with* Kalashnikov, Vladimir) Spatial no-waiting stations with moving customers. (English summary) **2005f:60194**
— (*with* Kovalenko, Igor Nikolaevich) Estimation of loss probability in a queueing system of type $MAP/G/m/0$ under light traffic. (Ukrainian. Ukrainian summary) **2005m:60205**
Baykal-Gursoy, Melike (*with* Xiao, Weihua) Stochastic decomposition in $M/M/\infty$ queues with Markov modulated service rates. (English summary) **2005h:60269**
Bekker, René (*with* Borst, S. C.; Boxma, Onno J.; Kella, Offer) Queues with workload-dependent arrival and service rates. (English summary) **2005e:60209**
— (*with* Zwart, Bert) On an equivalence between loss rates and cycle maxima in queues and dams. (English summary) **2005j:60164**
Belarbi, Faiza Étude par la méthode des limites fluides de la stabilité du réseau de file d'attente de Lu-Kumar-Bramson. (French summary) [Study of the stability of the Lu-Kumar-Bramson queueing network using the fluid limit method] **2005i:60177**
Bel Hadj Rhouma, Nadra (*with* Bezzarga, Mounir) Semidynamical systems with the same order relation. (English summary) **2005j:60165**
Ben-Jacob, Eshel *see* **Arazi, Arnon et al., 2005b:60234**
Bezzarga, Mounir *see* **Bel Hadj Rhouma, Nadra, 2005j:60165**
Bini, Dario A. (*with* Meini, Beatrice) Non-skip-free $M/G/1$-type Markov chains and Laurent matrix power series. (English summary) **2005h:60270**
Blondia, C. *see* **Van Houdt, B.** *and* **Van Velthoven, J. et al.**
Bocharov, P. P. (*with* D'Apice, Ciro; Fong, N. Kh.) On the servicing of a Poisson flow on a retrial single-server system with a finite buffer. (Russian. Russian summary) **2005i:60178**
— (*with* D'Apice, Ciro; Manzo, Rosanna; Fong, N. Kh.) On the servicing of a multivariate Poisson flow on a retrial single server with a finite buffer. (Russian. Russian summary) **2005g:60142**
— (*with* D'Apice, Ciro; Pechinkin, Alexandre; Salerno, Saverio) Stationary characteristics of the queueing system $G/MSP/1/r^1$. (Russian. Russian summary) **2005g:60143**
— (*with* Vishnevskiĭ, V. M.) G-networks: development of the theory of multiplicative networks. (Russian. Russian summary) **2005f:60195**

— (*with* Gavrilov, Evgeny; D'Apice, Ciro; Pechinkin, Alexandre) On the decomposition of queueing networks with dependent servicing and negative customers. (Russian. Russian summary) **2005g:60144**
— (*with* Gavrilov, Evgeny; Pechinkin, Alexandre) An exponential queueing network with dependent servicing, negative customers, and a change in customer type. (Russian. Russian summary) **2005h:60271**
Bolch, G. *see* **Almási, B. et al.**
Borkovec, Milan (*with* Dasgupta, Amites[1]; Resnick, Sidney I.; Samorodnitsky, Gennady) A single channel on/off model with TCP-like control. (English summary) **2005a:60146**
Borst, S. C. *see* **Bekker, René et al., 2005e:60209** *and* **Zwart, Bert et al., 2005e:60226**
Boxma, Onno J. (*with* Foss, S. G.; Lasgouttes, J.-M.; Núñez-Queija, Rudesindo) Waiting time asymptotics in the single server queue with service in random order. (English summary) **2005g:60145**
— *see also* **Bekker, René et al., 2005e:60209**
Boyer, Jacqueline *see* **Sericola, Bruno et al.**
Brandt, Andreas (*with* Brandt, Manfred) On the two-class $M/M/1$ system under preemptive resume and impatience of the prioritized customers. (English summary) **2005g:60146**
Brandt, Manfred *see* **Brandt, Andreas, 2005g:60146**
Bratiĭchuk, N. S. (*with* Chydzinski, Andrzej) On the ergodic distribution of oscillating queueing systems. (English summary) **2005f:60196**
— (*with* Kempa, Wojciech) Explicit formulae for the queue length distribution of batch arrival systems. (English summary) **2005i:60179**
Breuer, Lothar (*with* Dudin, Aleksandr; Klimenok, Valentina; Tsarenkov, G. V.) The two-phase system $BMAP|G|1|N \to PH|1|M-1$ with blocking. (Russian. Russian summary) **2005g:60147**
Brill, Percy H. *see* **Shortle, John F. et al., 2005g:60155**
Cai, Jun *see* **Willmot, Gordon E., 2005e:60222**
Cassandras, Christos G. *see* **Sun, Gang[1] et al., 2005i:60188**
Chae, Kyung Chul (*with* Lee, Sang Min; Kim, Nam Ki; Kim, Jin Dong; Lee, Ho Woo) A trial solution approach to the $GI/M/1$ queue with N-policy and exponential vacations. (English summary)
— (*with* Kim, Nam Ki; Yoon, Bong K.) On the queue length distribution for the $GI/G/1/K/V_M$ queue. (English summary) **2005b:60235**
— *see also* **Kim, Nam Ki et al.**; **Lee, Ho Woo et al.** *and* **Chaudhry, Mohan L. et al.**
Chakravarthy, Srinivas R. *see* **Dudin, Aleksandr, 2005b:60236**
Chang, Seok Ho (*with* Choi, Dae Won; Kim, Tae-Sung[2]) Performance analysis of a finite-buffer bulk-arrival and bulk-service queue with variable server capacity. (English summary) **2005g:60148**
— *see also* **Chaudhry, Mohan L., 2005a:60147**
Chaudhry, Mohan L. (*with* Chang, Seok Ho) Analysis ofthe discrete-time bulk-service queue $\mathrm{Geo}/\mathrm{G}^{\mathrm{Y}}/1/N+B$. (English summary) **2005a:60147**
— (*with* Choi, Dae Won; Chae, Kyung Chul) Computational analysis of stationary waiting-time distributions of $GI^X/R/1$ and $GI^X/D/1$ queues. (English summary)
— *see also* **Kim, Nam Ki et al.**
Chen, Yan (*with* Zhu, Yi Jun; Chen, Yang) $M/G/1$ queueing systems with negative customers. (Chinese. English and Chinese summaries)
— *see also* **Zhu, Yi Jun et al.**
Chen, Yang *see* **Chen, Yan et al.**
Cheon, Sahng Hoon *see* **Lee, Ho Woo et al.**
Ching, Wai Ki Iterative methods for queuing systems with batch arrivals and negative customers. (English summary) **2005a:60148**
Choi, Bong Dae (*with* Kim, Bara; Zhu, Dongbi) $MAP/M/c$ queue with constant impatient time. (English summary) **2005e:60210**
Choi, Dae Won *see* **Chang, Seok Ho et al., 2005g:60148** *and* **Chaudhry, Mohan L. et al.**
Choi, Doo Il *see* **Knessl, Charles et al., 2005d:60145**
Choudhury, Gautam On the $M/G/1$ queue with Bernoulli feedback and exceptional first vacation. (English summary)
— (*with* Paul, Madhuchanda) Analysis of $M/G/1$ queue with an additional service channel: a simple alternative approach. (English summary)
— (*with* Paul, Madhuchanda) A two phase queueing system with Bernoulli feedback. (English summary)
— Some aspects of an $M^x/G/1$ queue with two different vacation periods under multiple vacation policy. (English summary)
Chydzinski, Andrzej On the remaining service time upon reaching a given level in $M/G/1$ queues. (English summary) **2005g:60149**
— On the distribution of consecutive losses in a finite capacity queue. (English summary)
— *see also* **Bratiĭchuk, N. S., 2005f:60196**
Daduna, Hans (*with* Szekli, Ryszard) On the correlation structure of closed queueing networks. (English summary) **2005h:60272**
D'Apice, Ciro (*with* Manzo, Rosanna; Pechinkin, Alexandre) The $\mathrm{MAP}_k/G_k/1$ queueing system with finite capacity and a generalized processor-sharing discipline with preference. (Russian. Russian summary) **2005m:60206**
— *see also* **Bocharov, P. P. et al., 2005g:60142**; **2005g:60143**; **2005g:60144** *and* **2005i:60178**
Dasgupta, Amites[1] *see* **Borkovec, Milan et al., 2005a:60146**
Day, Martin V. On the velocity projection map for polyhedral Skorokhod problems. (English summary) **2005m:60207**
Dębicki, Krzysztof (*with* Mandjes, Michel) Traffic with an fBm limit: convergence of the stationary workload process. (English summary) **2005e:60211**
Deepak, T. G. (*with* Joshua, V. C.; Krishnamoorthy, A.) Queues with postponed work. (English summary)
Deng, Yong Lu *see* **Zhou, Wen Hui, 2005e:60225**
Derbala, Ali Priority queuing in an operating system. (English summary)
Dhakad, M. R. *see* **Jain, Madhu et al.**
van Dijk, Nico M. (*with* Miyazawa, Masakiyo) Error bounds for perturbing nonexponential queues. (English summary) **2005e:60212**
Dominici, Diego (*with* Knessl, Charles) Asymptotic analysis by the saddle point method of the Anick-Mitra-Sondhi model. **2005e:60213**
van Doorn, Erik A. (*with* Jagers, A. A.) A note on the $GI/GI/\infty$ system with identical service and interarrival-time distributions. (English summary) **2005e:60214**
Draief, Moez (*with* Mairesse, Jean) Services within a busy period of an $M/M/1$ queue Dyck paths. (English summary) **2005j:60166**
Dshalalow, Jewgeni H. *see* **Rosson, Hong-Tham T., 2005b:60247** *and* **2005k:60292**
Dube, Parijat (*with* Guillemin, Fabrice; Mazumdar, Ravi R.) Scale functions of Lévy processes and busy periods of finite-capacity $M/GI/1$ queues. (English summary) **2005m:60208**
Dudin, Aleksandr (*with* Chakravarthy, Srinivas R.) Multi-threshold control of the $BMAP/SM/1/K$ queue with group services. (English summary) **2005b:60236**
— (*with* Kim, Che Soong; Semenova, Olga V.) Optimal multithreshold control of the input flow for the $GI/PH/1$ queueing system with a BMAP flow of negative customers. (Russian. Russian summary) **2005i:60180**
— *see also* **Breuer, Lothar et al., 2005g:60147** *and* **Klimenok, Valentina et al., 2005k:60287**
Dukhovny, Alexander *see* **Abolnikov, Lev, 2005a:60145**
Efrosinin, D. V. (*with* Rykov, Vladimir V.) Numerical investigation of the optimal control of a system with heterogeneous servers. (Russian. Russian summary)
Eliazar, Iddo Gated polling systems with Lévy inflow and inter-dependent switchover times: a dynamical-systems approach. (English summary) **2005j:60167**
Eun, Do Young (*with* Shroff, Ness B.) Network decomposition in the many-sources regime. (English summary) **2005f:60197**
Evdokimovich, V. E. On closed queueing networks with dynamic routing and dynamic probabilistic bypasses of nodes by customers. (Russian. English and Russian summaries) **2005b:60237**
Feldman, R. M. *see* **Matis, T. I.**
Feng, En Min *see* **Shen, Yu Bo[2], 2005g:60154**
Fischer, Martin J. *see* **Shortle, John F. et al., 2005g:60155**
Florea, Ion Upon multiservers preemptive queueing system: a formal and object oriented approach. (English summary) **2005b:60238**
— A simulation algorithm for a variable number of parallel stations queuing system of head-of-line type. (English summary) **2005h:60273**
Foley, Robert D. (*with* McDonald, David R.) Bridges and networks: exact asymptotics. (English summary) **2005m:60209**
Fong, N. Kh. *see* **Bocharov, P. P. et al., 2005g:60142** *and* **2005i:60178**
Foss, S. G. (*with* Sapozhnikov, Artyom V.) On the existence of moments for the busy period in a single-server queue. (English summary) **2005f:60198**
— *see also* **Baccelli, François et al., 2005c:60122**; **2005e:60208** *and* **Boxma, Onno J. et al., 2005g:60145**
Franx, Geert Jan The $M^X/D/c$ batch arrival queue. (English summary)
Gadzhiev, A. G. (*with* Ibadova, Irada A.) Mathematical models of queueing systems with cyclic services. (English summary)
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Granovsky, Boris L. (*with* Zeifman, A. I.) Nonstationary queues: estimation of the rate of convergence. (English summary) **2005e:60215**
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Guillemin, Fabrice (*with* Robert, Philippe; Zwart, Bert) Tail asymptotics for processor-sharing queues. (English summary) **2005b:60240**
— (*with* Pinchon, Didier) Analysis of generalized processor-sharing systems with two classes of customers and exponential services. (English summary) **2005e:60216**
— *see also* **Dube, Parijat et al., 2005m:60208** *and* **Sericola, Bruno et al.**
Guo, Xing-guo *see* **Yan, Qing-qiang et al.**
Gupta, U. C. (*with* Sikdar, Karabi) A finite capacity bulk service queue with single vacation and Markovian arrival process. **2005j:60168**
Gupur, Geni Asymptotic property of the solution of $M/M/1$ queueing model with exceptional service time for the first customer in each busy period. (English summary) **2005b:60241**
— Resolvent set of the $M/M^{k,B}/1$ operator. (English and Chinese summaries) **2005h:60274**
— *see also* **Zhang, Furong**
Haque, Lani (*with* Zhao, Yiqiang Q.; Liu, Liming) Sufficient conditions for a geometric tail in a QBD process with many countable levels and phases. (English summary)
He, Ning Ka (*with* Yu, Zheng; Hu, Da Xuan) Transient distribution of the length of a queueing model with input and service dependent on the system state. (Chinese. English and Chinese summaries) **2005h:60275**
He, Qi Ming[1] Workload process, waiting times, and sojourn times in a discrete time $MMAP[K]/SM[K]/1/FCFS$ queue. (English summary) **2005f:60199**
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Hemachandra, N. *see* **Tandra, Rahul et al., 2005d:60149**
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Hochrainer, Stefan (*with* Hochreiter, Ronald; Pflug, Georg Ch.) An algorithm for calculating steady state probabilities of $M/E_r/c/K$ queueing systems. (English summary)
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Hong, Sung Jo *see* **Hirayama, Tetsuji et al., 2005i:60181**
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— (*with* van der Laan, Dinard) The unbalance and bounds on the average waiting time for periodic routing to one queue: the unbalance of routing sequences. (English summary) **2005b:60243**
Hou, Zhen Ting (*with* Liu, Yuanyuan) Explicit criteria for several types of ergodicity of the embedded $M/G/1$ and $GI/M/n$ queues. (English summary) **2005d:60144**
— (*with* Li, Xiao Hua) Ergodicity of quasi-birth and death processes. II. (Chinese. English and Chinese summaries)
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Hunt, Emma Ramaswami's duality and probabilistic algorithms for determining the rate matrix for a structured $GI/M/1$ Markov chain. (English summary) **2005k:60285**
Ibadova, Irada A. *see* **Gadzhiev, A. G.**
Iravani, Seyed M. R. (*with* Luangkesorn, K. L.; Simchi-Levi, David) A general decomposition algorithm for parallel queues with correlated arrivals. (English summary)

Ishii, Daisuke *see* **Shioda, Shigeo**, 2005f:60206
Ishizaki, Fumio Decomposition property in a discrete-time queue with multiple input streams and service interruptions. (English summary) **2005m:60210**
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Jagers, A. A. *see* **van Doorn, Erik A.**, 2005e:60214
Jain, Madhu (*with* Sharma, G. C.; Dhakad, M. R.) Finite controllable Markovian model with balking and reneging. (English summary)
— *see also* **Shinde, Vikas et al.**
Jelenković, Predrag R. (*with* Momčilović, Petar) Large deviations of square root insensitive random sums. (English summary) **2005h:60276**
— (*with* Momčilović, Petar; Zwart, Bert) Reduced load equivalence under subexponentiality. (English summary) **2005f:60200**
— (*with* Mandelbaum, Avishai; Momčilović, Petar) Heavy traffic limits for queues with many deterministic servers. (English summary) **2005k:60286**
Jiang, Tao[3] Local tail asymptotic relations for the stationary waiting time distribution of $GI/G/1/\infty$ queueing system. (Chinese. English and Chinese summaries) **2005j:60169**
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Kim, Jung Sun *see* **Son, Jin Hyun et al.**
Kim, Myoung Ho *see* **Son, Jin Hyun et al.**
Kim, Nam Ki (*with* Chae, Kyung Chul; Chaudhry, Mohan L.) An invariance relation and a unified method to derive stationary queue-length distributions. (English summary)
— *see also* **Chae, Kyung Chul et al.**, 2005b:60235
Kim, Tae-Sung[2] *see* **Chang, Seok Ho et al.**, 2005g:60148
Klimenok, Valentina (*with* Kim, Che Soong; Orlovskii, Dmitrii S.; Dudin, Aleksandr) Lack of invariant property of the Erlang loss model in case of MAP input. (English summary) **2005k:60287**
— *see also* **Breuer, Lothar et al.**, 2005g:60147
Knessl, Charles (*with* Choi, Doo Il; Tier, Charles) A dynamic priority queue model for simultaneous service of two traffic types. (English summary) **2005d:60145**
— Some asymptotic results for the $M/M/\infty$ queue with ranked servers. (English summary) **2005m:60211**
— *see also* **Dominici, Diego**, 2005e:60213 *and* **Yao, Haishen**
Koba, E. V. A sufficient condition for the ergodicity of an $M/D/1$ T-retrial system with priority for delayed customers. (Russian. English summary) **2005b:60244**
— (*with* Kovalenko, Igor Nikolaevich) The ergodicity condition for the $M/G/1$ retrial system with non-latticed orbit cycle distribution. (Ukrainian. English summary) **2005j:60170**
— A sufficient condition for the stability of a queueing system $GI/D/m$ with T retrials and priority for waiting customers. (Ukrainian. English summary) **2005m:60212**
— Investigation of the ergodicity of retrial queueing systems by the method of statistical modeling. (Russian. English, Russian and Ukrainian summaries)
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Koltai, T. *see* **Lakatos, L.**, 2005h:60278
Koole, Ger Convexity in tandem queues. (English summary) **2005f:60202**
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Kruk, Łukasz (*with* Lehoczky, John; Shreve, Steven E.; Yeung, Shu-Ngai) Earliest-deadline-first service in heavy-traffic acyclic networks. (English summary) **2005j:60171**
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Kumar, B. Krishna (*with* Pavai Madheswari, S.) An $M/M/2$ queueing system with heterogeneous servers and multiple vacations. (English summary)
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van der Laan, Dinard *see* **Hordijk, Arie**, 2005b:60242 *and* 2005b:60243
Lakatos, L. On the $M^X/G/1$ system. **2005i:60182**
— (*with* Koltai, T.) A discrete retrial system with uniformly distributed service time. (English summary) **2005h:60278**
Lakshmi srinivasan (*with* Renganathan, N.; Kalyanaraman, R.; Sekar, Ramamurthy) Bulk service by a single server with vacation and feedback facility. (English summary)
Lasgouttes, J.-M. *see* **Boxma, Onno J. et al.**, 2005g:60145
Leahu, Alexe Ch. Statistical inference on the traffic intensity for the $M/M/s$ queueing system. (English summary)
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Lee, Daniel C. *see* **Spitler, Stephen L.**, 2005d:60148
Lee, Eui Yong *see* **Lee, Ho Woo et al.**
Lee, Ho Woo (*with* Cheon, Sahng Hoon; Lee, Eui Yong; Chae, Kyung Chul) Workload and waiting time analyses of MAP/G/1 queue under D-policy. (English summary)
— (*with* Song, Kyoung Seok) Queue length analysis of $MAP/G/1$ queue under D-policy. (English summary) **2005k:60289**
— *see also* **Chae, Kyung Chul et al.**
Lee, Sang Min *see* **Chae, Kyung Chul et al.**
Lee, Yutae Discrete-time queue with variable service capacity. (English summary)
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Likhanov, N. B. *see* **Ozturk, Ozcan et al.**, 2005h:60283
Lin, Kyle Y. (*with* Ross, Sheldon M.) Optimal admission control for a single-server loss queue. (English summary) **2005c:60123**
Lindvall, Torgny On a routing problem. (English summary)
Linwong, Pinai (*with* Kato, Nei; Nemoto, Yoshiaki) A polynomial factorization approach for the discrete time $GI^X/G/1/K$ queue. (English summary) **2005e:60217**
Liu, Cun Xia (*with* Lü, Wen) Global stability of a class of generalized queueing networks. (Chinese. English and Chinese summaries) **2005i:60183**
— (*with* Lü, Wen) Global stability condition of Niño-Mora and Glazebrook and stability of a class of queueing networks. (Chinese. English and Chinese summaries)
Liu, Jian Min Research on approximations for two queueing networks. (Chinese. English and Chinese summaries) **2005i:60184**
Liu, Liming *see* **Haque, Lani et al.**
Liu, Yu Min[2] (*with* Yuan, Wen Zhi; Wang, Ming Sheng[3]) An ordinary differential equation of the $M/M/n$ model with impatient customers. (Chinese. English and Chinese summaries)
Liu, Yuanyuan *see* **Hou, Zhen Ting**, 2005d:60144
Lü, Wen *see* **Liu, Cun Xia**, 2005i:60183
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Madan, Kailash C. (*with* Abu Al-Rub, Adel Z.) On a single server queue with optional phase type server vacations based on exhaustive deterministic service and a single vacation policy. (English summary) **2005a:60149**
— (*with* Abu Al-Rub, Adel Z.) Transient and steady state solution of a single server queue with modified Bernoulli schedule vacations based on exhaustive service and a single vacation policy. (English and Spanish summaries)
— (*with* Al-Rawwash, Mohammad) On the $M^x/G/1$ queue with feedback and optional server vacations based on a single vacation policy. (English summary)
Mairesse, Jean *see* **Draief, Moez**, 2005j:60166
Makowski, Armand M. *see* **Vanichpun, Sarut**, 2005h:60288
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— (*with* van Uitert, Miranda) Sample-path large deviations for tandem and priority queues with Gaussian inputs. (English summary) **2005k:60290**
— *see also* **Dębicki, Krzysztof**, 2005e:60211 *and* **Zwart, Bert et al.**, 2005e:60226
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Masi, Denise M. B. *see* **Shortle, John F. et al.**, 2005g:60155
Matis, T. I. (*with* Feldman, R. M.) Correction: "Transient analysis of state-dependent queueing networks via cumulant functions" [J. Appl. Probab. **38** (2001), no. 4, 841–859; MR1876543 (2002i:60172)].
Matta, C. H. Multi-server queuing system with general distribution for service time and finite waiting time. (English summary)
Mazumdar, Ravi R. *see* **Ozturk, Ozcan et al.**, 2005h:60283 *and* **Dube, Parijat et al.**, 2005m:60208
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Mikhalevich, K. V. A comparison of a classical retrial $M/G/1$ queueing system and a Lakatos-type $M/G/1$ cyclic-waiting time queueing system. (English summary) **2005g:60153**
Mishra, Sant Sharan (*with* Pandey, Nand Kumar) Analysis of bulk queueing model $M/G^k/2$ for non-identical servers with a grand vacation policy. (English summary) **2005j:60173**
Miyazawa, Masakiyo (*with* Takada, Hiroyuki) A matrix exponential form for hitting probabilities and its application to a Markov-modulated fluid queue with downward jumps. (English summary) **2005h:60279**
— (*with* Zhao, Yiqiang Q.) The stationary tail asymptotics in the $GI/G/1$-type queue with countably many background states. (English summary) **2005h:60280**
— A Markov renewal approach to $M/G/1$ type queues with countably many background states. (English summary) **2005h:60281**
— *see also* **van Dijk, Nico M.**, 2005e:60212
Miyoshi, Naoto On the subexponential properties in stationary single-server queues: a Palm-martingale approach. (English summary) **2005g:60152**
— (*with* Rolski, Tomasz) Ross-type conjectures on monotonicity of queues. (English summary) **2005k:60291**
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Moreno, Pilar An $M/G/1$ retrial queue with recurrent customers and general retrial times. (English summary) **2005i:60186**
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— *see also* **Atencia, Ivan**, 2005f:60191 *and* **2005j:60163**
Morozov, Evsei Weak regeneration in modeling of queueing processes. (English summary) **2005c:60124**
Nain, Philippe *see* **Koole, Ger**, 2005k:60288
Nelson, Barry L. (*with* Taaffe, Michael R.) The $Ph_t/Ph_t/\infty$ queueing systems. I. The

single node. (English summary)
— (*with* Taaffe, Michael R.) The $[Ph_t/Ph_t/\infty]^K$ queueing system. II. The multiclass network. (English summary)
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Ozawa, Toshihisa Analysis of queues with Markovian service processes. (English summary) **2005d:60147**
Ozturk, Ozcan (*with* Mazumdar, Ravi R.; Likhanov, N. B.) Many sources asymptotics for networks with small buffers. (English summary) **2005h:60283**
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Pal, Saurabh The cost analysis of $M/M/1/N$ interdependent queueing model with controllable arrival rates. (English summary)
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— (*with* Vijayashree, K. V.; Lenin, R. B.) Fluid queues driven by a birth and death process with alternating flow rates.
Paul, Madhuchanda *see* **Choudhury, Gautam**
Pavai Madheswari, S. *see* **Kumar, B. Krishna, 2005j:60172**
Pearn, Wen Lea *see* **Wang, Kuo-Hsiung et al.**
Pechinkin, Alexandre (*with* Trishechkin, S. I.) The system $SM_2/MSP/n/r$ with a random-server discipline and common storage. (Russian. Russian summary) **2005h:60284**
— *see also* **Bocharov, P. P. et al., 2005g:60143; 2005g:60144; 2005h:60271** *and* **D'Apice, Ciro et al., 2005m:60206**
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Pihlsgård, Mats *see* **Asmussen, Søren, 2005e:60207**
Pinchon, Didier *see* **Guillemin, Fabrice, 2005e:60216**
Piunovskiĭ, A. B. Bicriteria optimization of a queue with a controlled input stream. (English summary) **2005f:60204**
Pukhal'skiĭ, A. A. (*with* Reiman, Martin I.) Correction: "The multiclass $GI/PH/N$ queue in the Halfin-Whitt regime" [Adv. in Appl. Probab. **32** (2000), no. 2, 564–595; MR1778580 (2002g:60155)]. **2005e:60218**
Rabehasaina, Landy (*with* Sericola, Bruno) Stability analysis of second-order fluid flow models in a stationary ergodic environment. (English summary) **2005b:60246**
— (*with* Sericola, Bruno) A second-order Markov-modulated fluid queue with linear service rate. (English summary) **2005m:60213**
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Resing, Jacques *see* **Rietman, Ronald, 2005h:60285**
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— *see also* **Miyoshi, Naoto, 2005k:60291**
Ross, Sheldon M. *see* **Lin, Kyle Y., 2005c:60123**
Rosson, Hong-Tham T. (*with* Dshalalow, Jewgeni H.) A non-Markovian queueing system with a variable number of channels. (English summary) **2005b:60247**
— (*with* Dshalalow, Jewgeni H.) A closed stochastic reliability system with variable resources. (English summary) **2005k:60292**
Roszik, J. Homogeneous finite-source retrial queues with server and sources subject to breakdowns and repairs. (English summary)
Rykov, Vladimir V. *see* **Efrosinin, D. V.**
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— (*with* Mengersen, Kerrie; Shahkar, G. H.) Reservicing some customers in $M/G/1$ queues under three disciplines. (English summary) **2005m:60214**
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Salminen, Paavo *see* **Kozlova, Marina, 2005h:60277**
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Sapozhnikov, Artyom V. *see* **Foss, S. G., 2005f:60198**
Savenkov, T. Yu. Limit theorems for the characteristics of queueing systems with batch processing of customers. (Russian. Russian summary) **2005e:60219**
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Sekar, Ramamurthy *see* **Lakshmi srinivasan et al.**
Selvaraju, N. *see* **Parthasarathy, P. R., 2005c:60125**
Semenova, Olga V. An optimal threshold control of the system $BMAP/SM/1$ with a MAP flow of disasters. (Russian. Russian summary) **2005h:60287**
— *see also* **Dudin, Aleksandr et al., 2005i:60180**
Sericola, Bruno (*with* Guillemin, Fabrice; Boyer, Jacqueline) Sojourn times in the $M/PH/1$ processor sharing queue. (English summary)
— *see also* **Rabehasaina, Landy, 2005b:60246** *and* **2005m:60213**
Shahkar, G. H. *see* **Salehi-Rad, M. R. et al., 2005m:60214**
Shakkottai, Sanjay (*with* Srikant, Rayadurgam; Stolyar, A. L.) Pathwise optimality of the exponential scheduling rule for wireless channels. (English summary) **2005j:60174**
Sharma, G. C. *see* **Jain, Madhu et al.** *and* **Shinde, Vikas et al.**
Shawky, A. I. The service Erlangian machine interference model: $M/E_r/1/k/N$ with balking and reneging. (English summary)
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Shevlyakov, G. L. *see* **Avrachenkov, Konstantin E. et al., 2005f:60193**
Shi, Ding Hua *see* **Yan, Qing-qiang et al.**
Shinde, Vikas (*with* Sharma, G. C.; Jain, Madhu) Performance prediction of bulk service $GI/M^{(a,b)}/1/N$ queue. (English summary)
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Shortle, John F. (*with* Brill, Percy H.; Fischer, Martin J.; Gross, Donald; Masi, Denise M. B.) An algorithm to compute the waiting time distribution for the $M/G/1$ queue. (English summary) **2005g:60155**
— Piecewise polynomial approximations for heavy-tailed distributions in queueing analysis. (English summary)
Shreve, Steven E. *see* **Kruk, Łukasz et al., 2005j:60171**
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Sikdar, Karabi *see* **Gupta, U. C., 2005j:60168**
Simchi-Levi, David *see* **Iravani, Seyed M. R. et al.**
Simonyan, A. R. (*with* Ulitina, E. I.) A theorem on the convergence to a stable law in the $M/G/1/\infty$ model. (Russian) **2005i:60187**
Smirni, Evgenia *see* **Zhang, Qi[3] et al.**
Smits, Sanne R. (*with* Adan, Ivo J. B. F.; de Kok, A. G.) Waiting time characteristics in cyclic queues. (English summary)
Son, Jin Hyun (*with* Kim, Jung Sun; Kim, Myoung Ho) Extracting the workflow critical path from the extended well-formed workflow schema. (English summary)
Song, Kyoung Seok *see* **Lee, Ho Woo, 2005k:60289**
Spitler, Stephen L. (*with* Lee, Daniel C.) Optimization of call admission control for a statistical multiplexer allocating link bandwidth. (English summary) **2005d:60148**
Srikant, Rayadurgam *see* **Shakkottai, Sanjay et al., 2005j:60174**
Stolyar, A. L. Maxweight scheduling in a generalized switch: state space collapse and workload minimization in heavy traffic. (English summary) **2005a:60151**
— *see also* **Shakkottai, Sanjay et al., 2005j:60174**
Su, Jian *see* **Yin, Xiao Ling[1], 2005j:60177**
Sun, Gang[1] (*with* Cassandras, Christos G.; Panayiotou, Christos G.) Perturbation analysis of multiclass stochastic fluid models. (English summary) **2005i:60188**
Szczotka, Władysław (*with* Woyczyński, Wojbor A.) Heavy-tailed dependent queues in heavy traffic. (English summary) **2005k:60293**
Szekli, Ryszard *see* **Daduna, Hans, 2005h:60272**
Sztrik, János Asymptotic analysis of complex, Markov-modulated computer and communication systems. (English summary) **2005b:60248**
— (*with* Kim, Che Soong) Markov-modulated finite-source queueing models in evaluation of computer and communication systems. (English summary) **2005j:60175**
— Tool supported performance modelling of finite-source retrial queues with breakdowns. (English summary)
— *see also* **Almási, B. et al.**
Taaffe, Michael R. *see* **Nelson, Barry L.**
Tadj, Lotfi On an $M^1, M^2/G^r/1$ queueing system. (English summary) **2005c:60126**
— On a bilevel bulk queueing system under T-policy. (English summary) **2005f:60207**
— (*with* Ke, Jau-Chuan) Control policy of a hysteretic bulk queueing system. (English summary) **2005m:60215**
Takada, Hiroyuki *see* **Miyazawa, Masakiyo, 2005h:60279**
Takagi, Hideaki *see* **Wu, De-An, 2005a:60152** *and* **2005m:60219**
Takine, Tetsuya Geometric and subexponential asymptotics of Markov chains of $M/G/1$ type. (English summary) **2005e:60220**
— Single-server queues with Markov-modulated arrivals and service speed. (English summary) **2005k:60294**
Tandra, Rahul (*with* Hemachandra, N.; Manjunath, D.) Join minimum cost queue for multiclass customers: stability and performance bounds. (English summary) **2005d:60149**
Tang, Ying Hui (*with* Mao, Yong) Stochastic decomposition for $M/G/1$ queues with p-entering discipline during server vacations. (Chinese. English and Chinese summaries) **2005m:60216**
Tatashev, A. G. A queueing system with an inverse discipline, two types of customers, and a Markov arrival stream. (Russian. Russian summary) **2005m:60217**
— Stationary state probabilities of a queueing system with an inverse discipline and three types of customers. (Russian. English and Ukrainian summaries) **2005j:60176**
Tavakoli, Javad *see* **Grassmann, Winfried K.**
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Tsarenkov, G. V. *see* **Breuer, Lothar et al., 2005g:60147**
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Ulitina, E. I. *see* **Simonyan, A. R., 2005i:60187**
Van Houdt, B. (*with* Blondia, C.) Approximated transient queue length and waiting time distributions via steady state analysis. (English summary)
— *see also* **Van Velthoven, J. et al.**
Vanichpun, Sarut (*with* Makowski, Armand M.) When are on-off sources SIS? Conditions and applications. (English summary) **2005h:60288**
Van Velthoven, J. (*with* Van Houdt, B.; Blondia, C.) Response time distribution in a D-$MAP/PH/1$ queue with general customer impatience. (English summary)
Velmurugan, S. *see* **Ayyappan, G. et al.**
Vijayashree, K. V. *see* **Parthasarathy, P. R. et al.**
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Vishnevskiĭ, V. M. *see* **Bocharov, P. P., 2005f:60195**
van Vuuren, Marcel (*with* Adan, Ivo J. B. F.) Approximating the $\Sigma GI/G/s$ queue by using aggregation and matrix analytic methods. (English summary)
Wang, Chia-Li (*with* Wolff, Ronald W.) Work-conserving tandem queues. (English summary)
Wang, Jinting An $M/G/1$ queue with second optional service and server breakdowns. (English summary) **2005e:60221**
Wang, Kuo-Hsiung (*with* Wang, Tsung-Yin; Pearn, Wen Lea) Maximum entropy analysis to the N policy $M/G/1$ queueing system with server breakdowns and general startup

times. (English summary)
Wang, Ming Sheng[3] *see* **Liu, Yu Min[2] et al.**
Wang, Tie-Ying *see* **Wei, Cai-Min et al.**
Wang, Tsung-Yin *see* **Wang, Kuo-Hsiung et al.**
Wei, Cai-Min (*with* Wang, Tie-Ying; Xia, Zun Quan) Modelling and analysis of a continuous queueing system with multiple adaptive vacations and set-up time. (English summary)
Whitt, Ward Heavy-traffic limits for loss proportions in single-server queues. (English summary) **2005c:60127**
Willmot, Gordon E. (*with* Cai, Jun) On applications of residual lifetimes of compound geometric convolutions. (English summary) **2005e:60222**
Wolff, Ronald W. *see* **Wang, Chia-Li**
Woyczyński, Wojbor A. *see* **Szczotka, Władysław, 2005k:60293**
Wu, De-An (*with* Takagi, Hideaki) A queue with semi-Markovian batch plus Poisson arrivals with application to the MPEG frame sequence. (English summary) **2005a:60152**
— (*with* Takagi, Hideaki) Processor-sharing and random-service queues with semi-Markovian arrivals. (English summary) **2005m:60219**
Xia, Zun Quan *see* **Wei, Cai-Min et al.**
Xiao, Weihua *see* **Baykal-Gursoy, Melike, 2005h:60269**
Xu, Xiu Zhen *see* **Zhu, Yi Jun**
Yan, Qing-qiang (*with* Shi, Ding Hua; Guo, Xing-guo) A new vector Markov process for $M/G/1$ queue. (English summary)
Yao, Haishen (*with* Knessl, Charles) On the infinite server shortest queue problem: symmetric case. (English summary)
Yechiali, Uri *see* **Arazi, Arnon et al., 2005b:60234**
Yeung, Shu-Ngai *see* **Kruk, Łukasz et al., 2005j:60171**
Yin, Xiao Ling[1] (*with* Su, Jian) Double-ended queueing systems with negative customers. (Chinese. English and Chinese summaries) **2005j:60177**
Yoon, Bong K. *see* **Chae, Kyung Chul et al., 2005b:60235**
Yoon, Seunghwan (*with* Lewis, Mark E.) Optimal pricing and admission control in a queueing system with periodically varying parameters. (English summary) **2005f:60208**
Yoshioka, Yoshio An analyzing method for $GI/G/1$ queueing system. (Japanese. English summary) **2005e:60223**
— An analysis of a closed loop type queueing system with a general service distribution. (Japanese. English and Japanese summaries) **2005m:60220**
Yu, Hai Bo The $GI/Geom/1$ discrete-time queues with service vacations. (Chinese. English and Chinese summaries) **2005e:60224**
Yu, Zheng *see* **He, Ning Ka et al., 2005h:60275**
Yuan, Wen Zhi *see* **Liu, Yu Min[2] et al.**
Zazanis, Michael A. The time-to-empty for tandem Jackson networks. (English summary) **2005d:60150**
Zeifman, A. I. *see* **Granovsky, Boris L., 2005e:60215**
Zhang, Furong (*with* Gupur, Geni) The resolvent set of $M/M/1$ retrial queueing model. (English summary)
Zhang, Qi[3] (*with* Heindl, Armin; Smirni, Evgenia) Characterizing the $BMAP/MAP/1$ departure process via the ETAQA truncation. (English summary)
Zhang, Zhe George *see* **Zhu, Yi Jun**
Zhao, Guo Xi *see* **Zhu, Yi Jun et al.**
Zhao, Yiqiang Q. *see* **Li, Quan-Lin, 2005f:60203**; **Miyazawa, Masakiyo, 2005h:60280** *and* **Haque, Lani et al.**
Zhou, Wen Hui (*with* Deng, Yong Lu) A queueing system with general operation and vacation times. (Chinese. English and Chinese summaries) **2005e:60225**
Zhu, Dongbi *see* **Choi, Bong Dae et al., 2005e:60210**
Zhu, Yi Jun (*with* Zhang, Zhe George) $M/GI/I$ queues with services of both positive and negative customers. (English summary)
— (*with* Zhao, Guo Xi; Chen, Yan) Retrial queueing in repairable transfer unit. (Chinese. English and Chinese summaries)
— (*with* Xu, Xiu Zhen) Analysis of $Geom^X/G/1$ queueing system with exhaustive service discipline and adaptive multi-stage vacations. (Chinese. English and Chinese summaries)
— *see also* **Chen, Yan et al.**
Zwart, Bert (*with* Borst, S. C.; Mandjes, Michel) Exact asymptotics for fluid queues fed by multiple heavy-tailed on-off flows. (English summary) **2005e:60226**
— *see also* **Guillemin, Fabrice et al., 2005b:60240**; **Jelenković, Predrag R. et al., 2005f:60200** *and* **Bekker, René, 2005j:60164**

Items with secondary classifications in 60K25

Aalto, Samuli (*with* Ayesta, Urtzi; Nyberg-Oksanen, Eeva) $M/G/1/MLPS$ compared to $M/G/1/PS$. (English summary) **2005m:90019**
Adjabi, Smail (*with* Lagha, Karima; Aïssani, Amar) Application des lois non paramétriques dans les systèmes d'attente et la théorie de renouvellement. (English and French summaries) [Applying nonparametric distributions in queueing systems and renewal theory]
Adjallah, Kondo Hloindo *see* **Bhaskar, Vidhyacharan et al.**
Agarwal, Ravi P. (*with* Dshalalow, Jewgeni H.; O'Regan, Donal) Generalized modulated random measures and their potentials. (English summary) **2005b:60128**
— (*with* Dshalalow, Jewgeni H.) New fluctuation analysis of D-policy bulk queues with multiple vacations. (English summary) **2005i:90011**
Aguir, Salah (*with* Karaesmen, Fikri; Akşin, O. Zeynep; Chauvet, Fabrice) The impact of retrials on call center performance. (English summary) **2005a:90031**
Aïssani, Amar *see* **Adjabi, Smail et al.**
Ajmone Marsan, Marco *see* **Leonardi, Emilio et al.**
Akşin, O. Zeynep *see* **Aguir, Salah et al., 2005a:90031**
Albrecher, Hansjörg (*with* Boxma, Onno J.) A ruin model with dependence between claim sizes and claim intervals. (English summary)
Alfa, Attahiru Sule Markov chain representations of discrete distributions applied to queueing models. (English summary) **2005c:60092**
— *see also* **Van Houdt, B., 2005j:90014** *and* **Neuts, Marcel F., 2005k:60279**
Almási, B. (*with* Bolch, G.; Tutsch, D.) Stochastic modeling of multistage interconnection networks with Mosel.
Altman, Eitan (*with* Avrachenkov, Konstantin E.; Núñez-Queija, Rudesindo) Perturbation analysis for denumerable Markov chains with application to queueing models. (English summary) **2005h:60210**
— (*with* Jiménez, Tania; Núñez-Queija, Rudesindo; Yechiali, Uri) Optimal routing among $\cdot/M/1$ queues with partial information. (English summary) **2005d:90025**
— Applications of dynamic games in queues. (English summary) **2005h:90023**
Àlvarez, Carme (*with* Blesa, M.; Díaz, Josep; Fernández, Antonio[1]; Serna, Maria José) Adversarial models for priority-based networks. (English summary) (*see* **2005b:68020**)
Alvarez, Juan (*with* Hajek, Bruce) A queue with semiperiodic traffic. (English summary) **2005m:60069**
Armony, Mor (*with* Maglaras, Constantinos) On customer contact centers with a call-back option: customer decisions, routing rules, and system design. (English summary) **2005f:90027**
— (*with* Maglaras, Constantinos) Contact centers with a call-back option and real-time delay information. (English summary) **2005d:90026**
Artalejo, Jesus R. (*with* Economou, Antonis) Optimal control and performance analysis of an $M^X/M/1$ queue with batches of negative customers. (English summary) **2005f:90028**
— (*with* Lopez-Herrero, Maria J.) Entropy maximization and the busy period of some single-server vacation models. (English summary) **2005d:90027**
Asmussen, Søren (*with* Kroese, Dirk P.; Rubinstein, Reuven Y.) Heavy tails, importance sampling and cross-entropy. (English summary) **2005i:62028**
Ata, Barış (*with* Harrison, J. Michael; Shepp, Larry A.) Drift rate control of a Brownian processing system. (English summary) **2005k:60265**
Atar, Rami (*with* Mandelbaum, Avishai; Reiman, Martin I.) Scheduling a multi class queue with many exponential servers: asymptotic optimality in heavy traffic. (English summary) **2005d:90028**
— (*with* Shwartz, Adam; Dupuis, Paul) Explicit solution for a network control problem in the large deviation regime. (English summary) **2005g:60042**
Atencia, Ivan (*with* Moreno, Pilar) Discrete-time $Geo^{[X]}/G_H/1$ retrial queue with Bernoulli feedback. (English summary) **2005d:90029**
Avrachenkov, Konstantin E. *see* **Altman, Eitan et al., 2005h:60210**
Axsäter, Sven (*with* Kleijn, Marcel; de Kok, A. G.) Stock rationing in a continuous review two-echelon inventory model. (English summary) **2005a:90008**
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Ayhan, Hayriye *see* **Chang, Junxia et al., 2005h:90053**
Azaron, Amir (*with* Modarres, Mohammad) Distribution function of the shortest path in networks of queues. (English summary) **2005g:90024**
Baba, Yutaka Analysis of a GI/M/1 queue with multiple working vacations. (English summary) **2005f:90029**
Badescu, Andrei (*with* Breuer, Lothar; da Silva Soares, Ana; Latouche, Guy; Remiche, Marie-Ange; Stanford, David A.) Risk processes analyzed as fluid queues. (English summary) **2005m:60221**
Baghel, K. P. S. *see* **Jain, Madhu et al.**
Bai, Liwei (*with* Fralix, Brian; Liu, Liming; Shang, Weixin) Inter-departure times in base-stock inventory-queues. (English summary) **2005h:60289**
Baltrūnas, Aleksandras (*with* Omey, E.) Second-order subexponential behavior of subordinated sequences. (English and Lithuanian summaries) **2005c:60006**
— (*with* Klüppelberg, Claudia) Subexponential distributions—large deviations with applications to insurance and queueing models. (English summary) **2005c:60028**
Banerjee, Arunava (*with* Paul, Anand) Average fill rate and horizon length. (English summary) **2005m:90003**
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Bäuerle, Nicole (*with* Engelhardt-Funke, O.; Kolonko, M.) Routing of airplanes to two runways: monotonicity of optimal controls. (English summary) **2005h:60290**
Baum, Dieter (*with* Kovalenko, Igor Nikolaevich) Averaging properties of a $Cox/G/m/0$ loss system. (English summary) **2005g:60156**
Bean, Nigel G. *see* **Hui, K.-P. et al., 2005k:90012**
Bedford, Anthony[2] (*with* Zeephongsekul, Panlop) On a dual queueing system with preemptive priority service discipline. (English summary) **2005g:90025**
Belen, Selma (*with* Pearce, Charles E. M.) Rumours with general initial conditions. (English summary) **2005b:60016**
Benjaafar, Saif *see* **Gurumurthi, Suri, 2005c:90018**
Bhaskar, Vidhyacharan (*with* Adjallah, Kondo Hloindo; Joiner, Laurie L.) Dataflow modelling in distributed diagnostic-processing systems: a closed queuing network model approach with multiple servers. (English summary)
— (*with* Adjallah, Kondo Hloindo; Joiner, Laurie L.) Dataflow modelling in distributed diagnostic-processing systems: a closed queuing network model approach with single servers. (English summary)
Birge, John R. *see* **Grasman, Scott E. et al., 2005j:90010**
Blesa, M. *see* **Àlvarez, Carme et al., (2005b:68020)**
Bocharov, P. P. (*with* D'Apice, Ciro; Gavrilov, Evgeny; Pechinkin, Alexandre) Product form solution for G-networks with dependent service. (English summary) **2005g:90016**
de Boer, Pieter-Tjerk Rare-event simulation of non-Markovian queueing networks using a state-dependent change of measure determined using cross-entropy. (English summary) **2005k:90011**
Bogoyavlenskaya, O. Yu. Analysis of a random flow generated by the feedback transport protocol in a data transmission network. (Russian. Russian summary) **2005d:94063**
Boian, Florian *see* **Bufnea, Darius et al.**
Bolch, G. *see* **Almási, B. et al.**
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Boxma, Onno J. (*with* Kaspi, Haya; Kella, Offer; Perry, David) On/off storage systems with state-dependent input, output, and switching rates. (English summary) **2005i:60189**
— *see also* **Albrecher, Hansjörg**
Bradley, James R. A Brownian approximation of a production-inventory system with a manufacturer that subcontracts. (English summary) **2005d:90057**

— Optimal control of a dual service rate $M/M/1$ production-inventory model. (English summary) **2005f:90039**
Bratīichuk, N. S. Semi-Markov walks in queueing and risk theory. (*see* **2005d:00014**)
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Bufnea, Darius (*with* Sterca, Adrian; Cobârzan, Claudiu; Boian, Florian) Improving the round trip time estimation in internet routers. (English summary)
Callaghan, Thomas (*with* Mucha, Peter J.; Porter, Mason A.) The bowl championship series: a mathematical review.
Cao, Jinhua *see* **Li, Quan-Lin, 2005k:60274**
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Chang, Jin-Fu *see* **Chen, Ying-Ju**
Chang, Junxia (*with* Ayhan, Hayriye; Dai, J. G.; Xia, Cathy H.) Dynamic scheduling of a multiclass fluid model with transient overload. (English summary) **2005h:90053**
Chaudhry, Mohan L. (*with* Kim, Jin Dong) Complete analytic and computational analysis of the discrete-time bulk-arrival infinite-server system: $GI^X/Geom/\infty$. (English summary) **2005d:90030**
Chauvet, Fabrice *see* **Aguir, Salah et al., 2005a:90031**
Chen, Anyue (*with* Renshaw, Eric) Markovian bulk-arriving queues with state-dependent control at idle time. (English summary) **2005b:60199**
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Chen, Pangwei *see* **Yang, Taho et al.**
Chen, Sheau-Chyi *see* **Wang, Kuo-Hsiung et al.**
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— A mathematical programming approach to fuzzy queues with batch arrivals. (English summary)
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Chen, Yang (*with* Zhu, Yi Jun; Chen, Yan) Analysis of a repairable system with three kinds of states. (Chinese. English and Chinese summaries)
Chen, Ying-Ju (*with* Chang, Jin-Fu) Per connection performance analysis of a frame-based TDMA/CDMA MAC protocol containing both reservation and contention slots. (English summary)
Choi, Dae Won (*with* Kim, Nam Ki; Chae, Kyung Chul) A two-moment approximation for the $GI/G/c$ queue with finite capacity. (English summary) **2005j:90007**
Choudhury, Gautam (*with* Borthakur, Arun; Kalita, Sangeeta) On a batch arrival Poisson queue under threshold policy with a grand vacation. (English summary)
— *see also* **Madan, Kailash C., 2005b:90030**
Cobârzan, Claudiu *see* **Bufnea, Darius et al.**
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D'Apice, Ciro (*with* Kristofano, M. L.; Pechinkin, Alexandre) The $MAP_K/G_K/1/\infty$ queueing system with generalized server-sharing discipline with preference. (Russian. Russian summary) **2005j:90008**
— *see also* **Bocharov, P. P. et al., 2005g:90016**
Denisov, Denis (*with* Foss, S. G.; Korshunov, D. A.) Tail asymptotics for the supremum of a random walk when the mean is not finite. (English summary) **2005d:60073**
Denteneer, D. (*with* Janssen, A. J. E. M.; van Leeuwaarden, J. S. H.) Moment inequalities for the discrete-time bulk service queue. (English summary) **2005j:90009**
Díaz, Josep *see* **Àlvarez, Carme et al., (2005b:68020)**
Di Mascolo, Maria *see* **Matta, Andrea et al., 2005k:90016**
Ding, Wei[1] Scheduling problem on general purpose machinery and two groups of tasks with uniform processors. (Chinese. English and Chinese summaries)
Dominici, Diego (*with* Knessl, Charles) Geometrical optics approach to Markov-modulated fluid models. (English summary) **2005h:34011**
Dong, Ya Juan (*with* Zhu, Yong Hua) The ruin probability of a generalized risk model in insurance systems. (Chinese. English and Chinese summaries)
Draper, Stark C. (*with* Trott, Mitchell D.; Wornell, Gregory W.) A universal approach to queuing with distortion control. (English summary) **2005i:90012**
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— *see also* **Agarwal, Ravi P. et al., 2005b:60128** *and* **2005i:90011**
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Dupuis, Paul *see* **Atar, Rami et al., 2005g:60042**
Eaves, B. Curtis (*with* Glynn, Peter W.; Rothblum, Uriel G.) The mean number-in-system vector range for multiclass queueing networks. (English summary) **2005a:90032**
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Elesin, M. A. (*with* Kuznetsov, A. V.[1]; Zeifman, A. I.) On the rate of convergence for some birth and death processes. **2005h:60253**
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Èryuzhev, M. V. *see* **Tarantsev, A. A., 2005h:90026**
Evdokimovich, V. E. (*with* Malinkovskiĭ, Yu. V.) Queueing networks with dynamic routing and dynamic probabilistic bypasses of nodes by customers. (Russian. Russian summary) **2005f:90032**
Farkas, Gábor *see* **Kárász, Peter, 2005m:60222**
Feng, Wei[2] Large deviation bounds for a polling system with two queues and multiple servers. (English summary) **2005b:60066**
Fernández, Antonio[1] *see* **Àlvarez, Carme et al., (2005b:68020)**
Filliger, Roger (*with* Hongler, M.-O.) Syphon dynamics—a soluble model of multi-agents cooperative behavior. (English summary)
Florea, Ion A proposal concerning a simulation algorithm for multi-server preemptive queueing systems. (English and Romanian summaries)
Foss, S. G. *see* **Denisov, Denis et al., 2005d:60073** *and* **Konstantopoulos, Takis et al.**
Fralix, Brian *see* **Bai, Liwei et al., 2005h:60289**
Gafarov, I. A. On one modeling algorithm of random moving of particles along a ring without overtaking. (English summary)
Gallager, Robert *see* **Prabhakar, Balaji, 2005a:94035**
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Gamarnik, David Stochastic bandwidth packing process: stability conditons via Lyapunov function technique. (English summary) **2005i:60190**
Ganesh, Ayalvadi (*with* O'Connell, Neil; Wischik, Damon) ★ Big queues. **2005a:60001**
Gautam, Natarajan *see* **Kharoufeh, Jeffrey P., 2005a:90038**
Gavrilov, Evgeny *see* **Bocharov, P. P. et al., 2005g:90016**
Gilland, Wendell G. Analysis of optimal and nearly optimal sequencing policies for a closed queueing network. (English summary)
Glynn, Peter W. *see* **Eaves, B. Curtis et al., 2005a:90032**
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Gómez-Corral, A. Sojourn times in a two-stage queueing network with blocking. (English summary) **2005k:90015**
— On a finite-buffer bulk-service queue with disasters. (English summary) **2005m:90020**
González, Paula (*with* Herrero, Carmen) Optimal sharing of surgical costs in the presence of queues. (English summary) **2005d:90032**
González-Arévalo, Bárbara (*with* Samorodnitsky, Gennady) Buffer content of a leaky-bucket system with long-range dependent input traffic. (English summary) **2005b:90024**
— Performance of a leaky bucket system with long-range dependent input traffic. (English summary) **2005d:60151**
Goswami, V. Distribution of the number of customers served during a busy period in a discrete time single server queue. (English summary)
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— *see also* **Sleptchenko, Andrei et al., 2005m:90023**
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Ignatov, Tsvetan G. (*with* Kaishev, Vladimir K.) A finite-time ruin probability formula for continuous claim severities. (English summary) **2005e:60227**
Indra (*with* Sharda) A batch arrival two-state $M/M/1$ queueing system with latest arrival run (LAR) having maximum effective length one. (English summary) **2005a:90035**
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— *see also* **Wang, Kuo-Hsiung et al.**
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— Design of stochastic hitless-prediction router by using the first exceed level theory. (English summary)
Kim, Sunkyo (*with* Muralidharan, Ravi; O'Cinneide, Colm A.) Taking account of correlations between streams in queueing network approximations. (English summary)
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Konstantopoulos, Takis (*with* Zachary, Stan; Foss, S. G.) Introduction: Non-conventional queueing models: heavy tails, long-range dependence, and rare events.
Korshunov, D. A. *see* **Denisov, Denis et al., 2005d:60073**
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— (*with* Van Mieghem, Jan A.) Queueing systems with leadtime constraints: A fluid-model approach for admission and sequencing control. (English summary) **2005m:90022**
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Mikadze, I. S. (*with* Khocholava, V. V.; Khurodze, R. A.) Virtual expectation time in a single-server queueing system with an unreliable server. (Russian. Russian summary) **2005j:90011**
— (*with* Khocholava, V. V.) Investigation of the queue length in a single-server queueing system with an unreliable server. (Russian. Russian summary) **2005j:90012**
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Mitra, Manipushpak Incomplete information and multiple machine queueing problems. (English summary) **2005h:90025**
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Pogoruĭ, A. A. Estimation of the stationary efficiency of a two-phase system with two storages. (Russian. English, Russian and Ukrainian summaries)
Popkov, Yu. S. Macrosystem models of dynamic stochastic networks, and GRID-technologies. (Russian. Russian summary)
Poppinga, C. *see* **Moeschlin, O.**
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Savsar, M. Modeling of an unreliable production merging process with intermediate storage tank. (English summary) (*see* **2005m:00007**)
Schneider, Ulrike (*with* Corcoran, J. N.) Perfect sampling for Bayesian variable selection in a linear regression model. (English summary)
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Shen, Li Min (*with* Jin, Sun Fu; Tian, Nai Shuo) The $M/M/c$ queue with N-policy and multiple vacation of partial servers. (Chinese. English and Chinese summaries) **2005f:90035**
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Sherman, N. P. (*with* Kharoufeh, Jeffrey P.) Analytical modeling of joint reception, staging, onward movement, and integration. (English summary)
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Sleptchenko, Andrei (*with* van Harten, Aart; van der Heijden, Matthieu) An exact solution for the state probabilities of the multi-class, multi-server queue with preemptive priorities. (English summary) **2005m:90023**
— *see also* **van der Heijden, Matthieu et al., 2005b:90029**
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Vvedenskaya, N. D. (*with* Sukhov, Yu. M.) Functional equations that arise in asymptotic problems for communication networks. (Russian. Russian summary) **2005g:90023**
Wang, Han Xing *see* **Tang, Mao-ning**
Wang, Kuo-Hsiung (*with* Chen, Sheau-Chyi; Ke, Jau-Chuan) Maximum likelihood estimates and confidence intervals of an $M/M/R/N$ queue with balking and heterogeneous servers. (English summary)
— (*with* Liu, Yi-Chun; Pearn, Wen Lea) Cost benefit analysis of series systems with warm standby components and general repair time. (English summary) **2005k:90022**
Wang, Qinan Modeling and analysis of high risk patient queues. (English summary) **2005a:90042**
Wardi, Yoraï *see* **Sun, Gang[1] et al., 2005h:93105**
Weiss, Alan *see* **Shwartz, Adam, 2005m:60052**
Whitt, Ward A diffusion approximation for the $G/GI/n/m$ queue. (English summary) **2005k:90018**
— Two fluid approximations for multi-server queues with abandonments. (English summary) **2005j:90015**
Williams, Ruth J. *see* **Kelly, F. P., 2005g:60157**
Wischik, Damon *see* **Ganesh, Ayalvadi et al., 2005a:60001**
Woolford, Douglas G. *see* **Drekic, Steve, 2005h:90024**
Wornell, Gregory W. *see* **Draper, Stark C. et al., 2005i:90012**
Woyczyński, Wojbor A. *see* **Szczotka, Władysław, 2005h:60105**
Xia, Cathy H. *see* **Chang, Junxia et al., 2005h:90053**
Yan, Yi[1] Statistical multiplexing of homogeneous fractional Brownian streams. (English summary) **2005d:60063**
Yang, Taho (*with* Lee, Rong-Shean; Chen, Mu-Chen; Chen, Pangwei) Queueing network model for a single-operator machine interference problem with external operations. (English summary)
Yarovaya, E. B. *see* **Vatutin, Vladimir A. et al., 2005k:60276**
Yechiali, Uri On the $M^X/G/1$ queue with a waiting server and vacations. (English summary) **2005d:90035**
— *see also* **Altman, Eitan et al., 2005d:90025**
Yeh, Din-Horng (*with* Kao, Hsiu-Hsueh) Performance analysis of a queueing system with mixed service discipline. (English summary)
Young, Paul D. (*with* Chakravarthy, Srinivas R.) A circuit testing assembly line model with Markovian arrival process. (English summary)
Yuan, Xue-Ming (*with* Liu, Liming) Performance analysis of assembly systems with unreliable machines and finite buffers. (English summary) **2005g:90038**
Zachary, Stan A note on Veraverbeke's theorem. (English summary) **2005d:60085**
— *see also* **Konstantopoulos, Takis et al.**
Zacks, Shelemyahu *see* **Perry, David et al., 2005m:60185**
Zeephongsekul, Panlop *see* **Bedford, Anthony[2], 2005g:90025**
Zeevi, Assaf *see* **Maglaras, Constantinos, 2005m:60178**
Zeifman, A. I. *see* **Elesin, M. A. et al., 2005h:60253**
Zhang, Feng[1] Controllable scheduling for the sum of the number of late jobs and the maximal compress rate of processing times. (Chinese. English and Chinese summaries) **2005b:90054**
Zhang, Han Qin *see* **Sethi, Suresh P. et al., 2005k:93002**
Zhang, Qing[1] *see* **Sethi, Suresh P. et al., 2005k:93002**
Zhang, Runtong (*with* Phillis, Yannis A.; Kouikoglou, Vassilis S.) ★ Fuzzy control of queuing systems. **2005f:60005**
Zhang, Zhe George (*with* Tian, Nai Shuo) An analysis of queueing systems with multi-task servers. (English summary) **2005e:90022**
Zhu, Ren Xiang *see* **Zhu, Yi Jun**
Zhu, Yi Jun (*with* Chen, Yan; Hu, Bo) $GI/M/1$ queueing systems with negative customers and vacations. (Chinese. English and Chinese summaries)
— (*with* Zhu, Ren Xiang) Performance analysis of call centers based on $M/M/s/k+M$ queues. (Chinese. English and Chinese summaries)
— *see also* **Chen, Yang et al.**
Zhu, Yong Hua *see* **Dong, Ya Juan**

Items listed otherwise than by author

Lecture Notes in Mathematics *see* **Ganesh, Ayalvadi et al., 2005a:60001**

60K30 Applications (congestion, allocation, storage, traffic, etc.) [see also 90Bxx]

Adjallah, Kondo Hloindo *see* **Bhaskar, Vidhyacharan et al.**
Albrecher, Hansjörg (*with* Boxma, Onno J.) A ruin model with dependence between claim sizes and claim intervals. (English summary)
Almási, B. (*with* Bolch, G.; Tutsch, D.) Stochastic modeling of multistage interconnection networks with Mosel.
Badescu, Andrei (*with* Breuer, Lothar; da Silva Soares, Ana; Latouche, Guy; Remiche, Marie-Ange; Stanford, David A.) Risk processes analyzed as fluid queues. (English summary) **2005m:60221**
Bai, Liwei (*with* Fralix, Brian; Liu, Liming; Shang, Weixin) Inter-departure times in base-stock inventory-queues. (English summary) **2005h:60289**
Bäuerle, Nicole (*with* Engelhardt-Funke, O.; Kolonko, M.) Routing of airplanes to two runways: monotonicity of optimal controls. (English summary) **2005h:60290**
Baum, Dieter (*with* Kovalenko, Igor Nikolaevich) Averaging properties of a $\mathrm{Cox}/G/m/0$ loss system. (English summary) **2005g:60156**
Bhaskar, Vidhyacharan (*with* Adjallah, Kondo Hloindo; Joiner, Laurie L.) Dataflow modelling in distributed diagnostic-processing systems: a closed queuing network model approach with multiple servers. (English summary)
Bolch, G. *see* **Almási, B. et al.**
Boxma, Onno J. (*with* Kaspi, Haya; Kella, Offer; Perry, David) On/off storage systems with state-dependent input, output, and switching rates. (English summary) **2005i:60189**
— *see also* **Albrecher, Hansjörg**
Breuer, Lothar *see* **Badescu, Andrei et al., 2005m:60221**
Chakravarthy, Srinivas R. *see* **Young, Paul D.**
Chang, Jin-Fu *see* **Chen, Ying-Ju**
Chen, Yan *see* **Chen, Yang et al.**
Chen, Yang (*with* Zhu, Yi Jun; Chen, Yan) Analysis of a repairable system with three kinds of states. (Chinese. English and Chinese summaries)
Chen, Ying-Ju (*with* Chang, Jin-Fu) Per connection performance analysis of a frame-based TDMA/CDMA MAC protocol containing both reservation and contention slots. (English summary)
Dong, Ya Juan (*with* Zhu, Yong Hua) The ruin probability of a generalized risk model in insurance systems. (Chinese. English and Chinese summaries)
Engelhardt-Funke, O. *see* **Bäuerle, Nicole et al., 2005h:60290**
Farkas, Gábor *see* **Kárász, Peter, 2005m:60222**
Filliger, Roger (*with* Hongler, M.-O.) Syphon dynamics—a soluble model of multi-agents cooperative behavior. (English summary)
Fralix, Brian *see* **Bai, Liwei et al., 2005h:60289**
Gafarov, I. A. On one modeling algorithm of random moving of particles along a ring without overtaking. (English summary)
Gamarnik, David Stochastic bandwidth packing process: stability conditons via Lyapunov function technique. (English summary) **2005i:60190**
González-Arévalo, Bárbara Performance of a leaky bucket system with long-range dependent input traffic. (English summary) **2005d:60151**
Green, Michael L. The immigration-emigration with catastrophe model. (English summary) (*see* **2004k:60004**)
Hongler, M.-O. *see* **Filliger, Roger**
Hüsler, Jürg (*with* Piterbarg, Vladimir I.) Limit theorem for maximum of the storage process with fractional Brownian motion as input. (English summary) **2005h:60291**
Ignatov, Tsvetan G. (*with* Kaishev, Vladimir K.) A finite-time ruin probability formula for continuous claim severities. (English summary) **2005e:60227**
Ji, Chuanyi *see* **Ma, Sheng, 2005i:60191**
Joiner, Laurie L. *see* **Bhaskar, Vidhyacharan et al.**
Kaishev, Vladimir K. *see* **Ignatov, Tsvetan G., 2005e:60227**
Kárász, Peter (*with* Farkas, Gábor) Exact solution for a two-type customers retrial system. (English summary) **2005m:60222**
Kaspi, Haya *see* **Boxma, Onno J. et al., 2005i:60189**
Kella, Offer *see* **Boxma, Onno J. et al., 2005i:60189**
Kelly, F. P. (*with* Williams, Ruth J.) Fluid model for a network operating under a fair bandwidth-sharing policy. (English summary) **2005g:60157**
Kim, Song-Kyoo Design of stochastic hitless-prediction router by using the first exceed level theory. (English summary)
Kim, Sunkyo (*with* Muralidharan, Ravi; O'Cinneide, Colm A.) Taking account of correlations between streams in queueing network approximations. (English summary)
Kolonko, M. *see* **Bäuerle, Nicole et al., 2005h:60290**
Kovalenko, Igor Nikolaevich *see* **Baum, Dieter, 2005g:60156**
Latouche, Guy *see* **Badescu, Andrei et al., 2005m:60221**
Liu, Liming *see* **Bai, Liwei et al., 2005h:60289**
Ma, Sheng (*with* Ji, Chuanyi) Modeling network traffic in wavelet domain. (English summary) **2005i:60191**
Mandjes, Michel Packet models revisited: tandem and priority systems. (English summary) **2005g:60158**
Mannersalo, Petteri (*with* Norros, Ilkka; Salminen, Paavo) A storage process with local time input. (English summary) **2005e:60228**
Margolis, N. Yu. (*with* Nazarov, A. A.) Investigation of unstable random access networks under a static conflict warning protocol. (Russian. Russian summary) **2005g:60159**
Moeschlin, O. (*with* Poppinga, C.) Controlling traffic lights at a bottleneck with renewal arrival processes. (English and Spanish summaries)
Muralidharan, Ravi *see* **Kim, Sunkyo et al.**
Nazarov, A. A. *see* **Margolis, N. Yu., 2005g:60159**
Norros, Ilkka *see* **Mannersalo, Petteri et al., 2005e:60228**
Nuyens, M. F. M. The maximum queue length for heavy-tailed service times in the $M/G/1$ FB queue. (English summary) **2005i:60192**
O'Cinneide, Colm A. *see* **Kim, Sunkyo et al.**
Perry, David *see* **Boxma, Onno J. et al., 2005i:60189**
Piterbarg, Vladimir I. *see* **Hüsler, Jürg, 2005h:60291**
Poppinga, C. *see* **Moeschlin, O.**
Remiche, Marie-Ange *see* **Badescu, Andrei et al., 2005m:60221**
Salminen, Paavo *see* **Mannersalo, Petteri et al., 2005e:60228**
Shah, Bhavin J. (*with* Shah, Nita H.; Shah, Y. K.) An order-level lot-size model with stock dependent demand for time dependent deterioration under permissible delay in payments. (English summary)
Shah, Nita H. *see* **Shah, Bhavin J. et al.**
Shah, Y. K. *see* **Shah, Bhavin J. et al.**
Shang, Weixin *see* **Bai, Liwei et al., 2005h:60289**
da Silva Soares, Ana *see* **Badescu, Andrei et al., 2005m:60221**
Stanford, David A. *see* **Badescu, Andrei et al., 2005m:60221**
Tang, Mao-ning (*with* Wang, Han Xing) Equilibrium analysis for anycast in WDM networks. (English summary)
Tsitsiashvili, G. Sh. Qualitative properties of risk models under stochastic interest force. **2005m:60223**
Tutsch, D. *see* **Almási, B. et al.**
Wang, Han Xing *see* **Tang, Mao-ning**
Williams, Ruth J. *see* **Kelly, F. P., 2005g:60157**
Young, Paul D. (*with* Chakravarthy, Srinivas R.) A circuit testing assembly line model with Markovian arrival process. (English summary)
Zhu, Ren Xiang *see* **Zhu, Yi Jun**
Zhu, Yi Jun (*with* Zhu, Ren Xiang) Performance analysis of call centers based on $M/M/s/k+M$ queues. (Chinese. English and Chinese summaries)
— *see also* **Chen, Yang et al.**
Zhu, Yong Hua *see* **Dong, Ya Juan**

Items with secondary classifications in 60K30

Agarwal, Ravi P. (*with* Dshalalow, Jewgeni H.) New fluctuation analysis of D-policy bulk queues with multiple vacations. (English summary) **2005i:90011**
Aguir, Salah (*with* Karaesmen, Fikri; Akşin, O. Zeynep; Chauvet, Fabrice) The impact of retrials on call center performance. (English summary) **2005a:90031**
Akşin, O. Zeynep *see* **Aguir, Salah et al., 2005a:90031**
Alfa, Attahiru Sule *see* **Neuts, Marcel F., 2005k:60279**
Armony, Mor (*with* Maglaras, Constantinos) On customer contact centers with a call-back option: customer decisions, routing rules, and system design. (English summary) **2005f:90027**
Axsäter, Sven (*with* Kleijn, Marcel; de Kok, A. G.) Stock rationing in a continuous review two-echelon inventory model. (English summary) **2005a:90008**
Baghel, K. P. S. *see* **Jain, Madhu et al.**
Baltrūnas, Aleksandras (*with* Klüppelberg, Claudia) Subexponential distributions—large deviations with applications to insurance and queueing models. (English summary) **2005c:60028**
Banerjee, Arunava (*with* Paul, Anand) Average fill rate and horizon length. (English summary) **2005m:90003**
Bean, Nigel G. *see* **Hui, K.-P. et al., 2005k:90012**
Bekker, René (*with* Zwart, Bert) On an equivalence between loss rates and cycle maxima in queues and dams. (English summary) **2005j:60164**
Belen, Selma (*with* Pearce, Charles E. M.) Rumours with general initial conditions. (English summary) **2005b:60016**
Birge, John R. *see* **Grasman, Scott E. et al., 2005j:90010**
Bogoyavlenskaya, O. Yu. Analysis of a random flow generated by the feedback transport protocol in a data transmission network. (Russian. Russian summary) **2005d:94063**
Boian, Florian *see* **Bufnea, Darius et al.**
Bradley, James R. Optimal control of a dual service rate $M/M/1$ production-inventory model. (English summary) **2005f:90039**
Bufnea, Darius (*with* Sterca, Adrian; Cobârzan, Claudiu; Boian, Florian) Improving the round trip time estimation in internet routers. (English summary)
Cassandras, Christos G. *see* **Sun, Gang[1] et al., 2005h:93105**
Chauvet, Fabrice *see* **Aguir, Salah et al., 2005a:90031**
Chen, Shih-Pin An alternating variable method with varying replications for simulation response optimization. (English summary)
Cobârzan, Claudiu *see* **Bufnea, Darius et al.**
Cohen, Izack (*with* Golany, Boaz; Shtub, Avraham) Managing stochastic, finite capacity, multi-project systems through the cross-entropy methodology. (English summary) **2005k:90057**
Corcoran, J. N. *see* **Schneider, Ulrike**
Daduna, Hans *see* **Sauer, Cornelia, 2005b:62210**
Derbala, Ali Priority queuing in an operating system. (English summary)
Ding, Wei[1] Scheduling problem on general purpose machinery and two groups of tasks with uniform processors. (Chinese. English and Chinese summaries)
Draper, Stark C. (*with* Trott, Mitchell D.; Wornell, Gregory W.) A universal approach to queuing with distortion control. (English summary) **2005i:90012**
Dshalalow, Jewgeni H. *see* **Agarwal, Ravi P., 2005i:90011**
Gilland, Wendell G. Analysis of optimal and nearly optimal sequencing policies for a closed queueing network. (English summary)
Golany, Boaz *see* **Cohen, Izack et al., 2005k:90057**
González, Paula (*with* Herrero, Carmen) Optimal sharing of surgical costs in the presence of queues. (English summary) **2005d:90032**
Grasman, Scott E. (*with* Olsen, Tava Lennon; Birge, John R.) Finite buffer polling models with routing. (English summary) **2005j:90010**
Helber, Stefan *see* **Stolletz, Raik, 2005a:90041**
Herrero, Carmen *see* **González, Paula, 2005d:90032**
Hoier, Nicole N. *see* **Kim, Song-Kyoo**
Hui, K.-P. (*with* Bean, Nigel G.; Kraetzl, Miro; Kroese, Dirk P.) The cross-entropy method for network reliability estimation. (English summary) **2005k:90012**
Huzak, Miljenko (*with* Perman, Mihael; Šikić, Hrvoje; Vondraček, Zoran) Ruin probabilities and decompositions for general perturbed risk processes. (English summary) **2005f:60152**
— (*with* Perman, Mihael; Šikić, Hrvoje; Vondraček, Zoran) Ruin probabilities for competing claim processes. (English summary) **2005k:60237**
Ishii, Daisuke *see* **Shioda, Shigeo, 2005f:60206**

Jain, Madhu (*with* Sharma, G. C.; Baghel, K. P. S.) Interdependent machining system with spares, controllable arrival rates and additional repairmen. (English summary)
Jelenković, Predrag R. (*with* Mandelbaum, Avishai; Momčilović, Petar) Heavy traffic limits for queues with many deterministic servers. (English summary) **2005k:60286**
Kalpakam, S. *see* **Kistner, Klaus-Peter**
Kaňková, Vlasta (*with* Šmíd, Martin) On approximation in multistage stochastic programs: Markov dependence. (English summary) **2005k:90091**
Karaesmen, Fikri *see* **Aguir, Salah et al., 2005a:90031**
Khorshidian, K. (*with* Soltani, A. Reza) Asymptotic behavior of multivariate reward processes with nonlinear reward functions. (English and Persian summaries) **2005a:60142**
Kim, Eungab Optimal inventory replenishment policy for a queueing system with finite waiting room capacity. (English summary) **2005k:90004**
Kim, Song-Kyoo (*with* Hoier, Nicole N.) Human resource allocation applications of stochastic maintenance models with super-reserve backups. (English summary)
Kistner, Klaus-Peter (*with* Kalpakam, S.) On the output of tandem queues. (English summary)
Kleijn, Marcel *see* **Axsäter, Sven et al., 2005a:90008**
Klüppelberg, Claudia *see* **Baltrūnas, Aleksandras, 2005c:60028**
de Kok, A. G. *see* **Axsäter, Sven et al., 2005a:90008**
Koltai, T. *see* **Lakatos, L., 2005h:60278**
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Kroese, Dirk P. *see* **Hui, K.-P. et al., 2005k:90012**
Kurano, Masami (*with* Yasuda, Masami; Nakagami, Jun-ichi; Yoshida, Yuji) A fuzzy stopping problem with the concept of perception: the finite and infinite horizon cases. (English summary)
Lakatos, L. (*with* Koltai, T.) A discrete retrial system with uniformly distributed service time. (English summary) **2005h:60278**
Lin, Yi-Kuei An algorithm to evaluate the system reliability for multicommodity case under cost constraint. (English summary) **2005g:90036**
Liu, Liming *see* **Yuan, Xue-Ming, 2005g:90038**
Liu, Yi-Chun *see* **Wang, Kuo-Hsiung et al., 2005k:90022**
Lücking, Thomas (*with* Mavronicolas, Marios; Monien, Burkhard; Rode, Manuel; Spirakis, Paul G.; Vrt′o, Imrich) Which is the worst-case Nash equilibrium? (English summary) **2005f:91015**
Maglaras, Constantinos *see* **Armony, Mor, 2005f:90027**
Mandelbaum, Avishai *see* **Shimkin, Nahum, 2005d:90034** *and* **Jelenković, Predrag R. et al., 2005k:60286**
Matalytskiĭ, M. A. (*with* Pan′kov, A. V.) Probabilistic analysis of profits in banking networks. (Russian. English and Russian summaries)
Mavronicolas, Marios *see* **Lücking, Thomas et al., 2005f:91015**
Momčilović, Petar *see* **Jelenković, Predrag R. et al., 2005k:60286**
Monien, Burkhard *see* **Lücking, Thomas et al., 2005f:91015**
Nakagami, Jun-ichi *see* **Kurano, Masami et al.**
Neuts, Marcel F. (*with* Alfa, Attahiru Sule) Pair formation in a Markovian arrival process with two event labels. (English summary) **2005k:60279**
Olsen, Tava Lennon *see* **Grasman, Scott E. et al., 2005j:90010**
Panayiotou, Christos G. *see* **Sun, Gang[1] et al., 2005h:93105**
Pan′kov, A. V. *see* **Matalytskiĭ, M. A.**
Paul, Anand *see* **Banerjee, Arunava, 2005m:90003**
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Pellizzari, Paolo (*with* Sorato, Annamaria) On the coincidence of system optimum and user equilibrium for a widely used family of cost functions. (English summary)
Perman, Mihael *see* **Huzak, Miljenko et al., 2005f:60152** *and* **2005k:60237**
Perry, David (*with* Stadje, Wolfgang; Zacks, Shelemyahu) The first rendezvous time of Brownian motion and compound Poisson-type processes. (English summary) **2005m:60185**
Pogoruĭ, A. A. Estimation of the stationary efficiency of a two-phase system with two storages. (Russian. English, Russian and Ukrainian summaries)
Popkov, Yu. S. Macrosystem models of dynamic stochastic networks, and GRID-technologies. (Russian. Russian summary)
Riley, George F. *see* **Sun, Gang[1] et al., 2005h:93105**
Rode, Manuel *see* **Lücking, Thomas et al., 2005f:91015**
Sauer, Cornelia (*with* Daduna, Hans) Availability formulas and performance measures for separable degradable networks. (English summary) **2005b:62210**
Savsar, M. Modeling of an unreliable production merging process with intermediate storage tank. (English summary) (*see* **2005m:00007**)
Schneider, Ulrike (*with* Corcoran, J. N.) Perfect sampling for Bayesian variable selection in a linear regression model. (English summary)
Sethi, Suresh P. (*with* Zhang, Han Qin; Zhang, Qing[1]) ★ Average-cost control of stochastic manufacturing systems. **2005k:93002**
Sharma, G. C. *see* **Jain, Madhu et al.**
Shimkin, Nahum (*with* Mandelbaum, Avishai) Rational abandonment from tele-queues: nonlinear waiting costs with heterogeneous preferences. (English summary) **2005d:90034**
Shioda, Shigeo (*with* Ishii, Daisuke) Monotonicity results for single-server finite-capacity queues with respect to directionally convex order. (English summary) **2005f:60206**
Shtub, Avraham *see* **Cohen, Izack et al., 2005k:90057**
Šikić, Hrvoje *see* **Huzak, Miljenko et al., 2005f:60152** *and* **2005k:60237**
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Sorato, Annamaria *see* **Pellizzari, Paolo**
Spirakis, Paul G. *see* **Lücking, Thomas et al., 2005f:91015**
Spouge, John L. Finite-size corrections to Poisson approximations in general renewal-success processes. (English summary) **2005k:60281**
Stadje, Wolfgang *see* **Perry, David et al., 2005m:60185**
Sterca, Adrian *see* **Bufnea, Darius et al.**
Stolletz, Raik (*with* Helber, Stefan) Performance analysis of an inbound call center with skills-based routing. (English summary) **2005a:90041**
Su, Xuanming (*with* Zenios, Stefanos A.) Patient choice in kidney allocation: A sequential stochastic assignment model. (English summary)
Sun, Gang[1] (*with* Cassandras, Christos G.; Wardi, Yoraï; Panayiotou, Christos G.; Riley, George F.) Perturbation analysis and optimization of stochastic flow networks. (English summary) **2005h:93105**
Tadj, Lotfi On a bilevel bulk queueing system under T-policy. (English summary) **2005f:60207**
Thorup, Mikkel Integer priority queues with decrease key in constant time and the single source shortest paths problem. (English summary) **2005g:68022**
Trott, Mitchell D. *see* **Draper, Stark C. et al., 2005i:90012**
Tyurikov, M. Yu. Multiplicativity of Markov networks with multicast routing. (Russian. Russian summary) **2005g:94004**
Vondraček, Zoran *see* **Huzak, Miljenko et al., 2005f:60152** *and* **2005k:60237**
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Wang, Kuo-Hsiung (*with* Liu, Yi-Chun; Pearn, Wen Lea) Cost benefit analysis of series systems with warm standby components and general repair time. (English summary) **2005k:90022**
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Yan, Yi[1] Statistical multiplexing of homogeneous fractional Brownian streams. (English summary) **2005d:60063**
Yasuda, Masami *see* **Kurano, Masami et al.**
Yoshida, Yuji *see* **Kurano, Masami et al.**
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60K35 Interacting random processes; statistical mechanics type models; percolation theory [see also 82B43, 82C43]

Al′beverio, S. (*with* Daletskiĭ, A. Yu.; Kondrat′ev, Yu. G.) Stochastic equations and Dirichlet operators on infinite product manifolds. (English summary) **2005g:60160**
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Andjel, E. (*with* Ferrari, Pablo Augusto; Siqueira, Adriano F.) Law of large numbers for the simple exclusion process. (English summary) **2005h:60292**
Asselah, Amine (*with* Castell, Fabienne) Existence of quasi-stationary measures for asymmetric attractive particle systems on $\mathbb{Z}^d$. (English summary) **2005b:60249**
— (*with* Dai Pra, Paolo) Hitting times for special patterns in the symmetric exclusion process on $\mathbb{Z}^d$. (English summary) **2005m:60224**
— On the Dirichlet problem for asymmetric zero-range process on increasing domains. (English summary) **2005i:60193**
Bagley, J. *see* **Deijfen, Maria et al., 2005g:60161**
Bahadoran, Christophe Blockage hydrodynamics of one-dimensional driven conservative systems. (English summary) **2005f:60209**
Balázs, Márton Growth fluctuations in a class of deposition models. (English and French summaries) **2005j:60178a**
— Stochastic bounds on the zero range processes with superlinear jump rates. (English summary) **2005a:60153**
— Correction to: "Growth fluctuations in a class of deposition models" [Ann. Inst. H. Poincaré Probab. Statist. **39** (2003), no. 4, 639–685; MR1983174 (2005j:60178a)]. **2005j:60178b**
Balister, Paul N. (*with* Bollobás, Béla; Walters, Mark) Continuum percolation with steps in an annulus. (English summary) **2005j:60179**
Barbour, A. D. (*with* Granovsky, Boris L.) Random combinatorial structures: the convergent case. (English summary) **2005m:60225**
Bauer, Robert O. Discrete Löwner evolution. (English and French summaries) **2005b:60250**
Beffara, Vincent Hausdorff dimensions for SLE_6. (English summary) **2005k:60295**
Belopol′skaya, Ya. I. On a probabilistic approach to the solution of systems of nonlinear parabolic equations. (Russian. Russian summary)
Ben Arous, Gérard (*with* Tannenbaum, Allen; Zeitouni, Ofer) Crystalline stochastic systems and curvature driven flows. (English summary) **2005e:60229**
Benjamini, Itai (*with* Kalai, Gil; Schramm, Oded) First passage percolation has sublinear distance variance. (English summary) **2005b:60251**
Berestycki, Julien Multifractal spectra of fragmentation processes. (English summary) **2005a:60154**
van den Berg, Jacob (*with* Brouwer, R.) Self-destructive percolation. (English summary) **2005c:60128**
Bernardin, Cédric Fluctuations in the occupation time of a site in the asymmetric simple exclusion process. (English summary) **2005e:60230**
Bertotti, Maria Letizia (*with* Delitala, Marcello) From discrete kinetic and stochastic game theory to modelling complex systems in applied sciences. (English summary) **2005e:60231**
Biskup, Marek On the scaling of the chemical distance in long-range percolation models. (English summary) **2005k:60296**
Blanchard, Philippe (*with* Gandolfo, D.; Ruiz, Jean; Shlosman, Senya B.) On the Euler-Poincaré characteristic of the random cluster model. (English summary) **2005f:60210**
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Braga, G. A. (*with* Procacci, Aldo; Sanchis, R.) Ornstein-Zernike behavior for the Bernoulli bond percolation on $\mathbb{Z}^d$ in the supercritical regime. (English summary) **2005m:60227**
— *see also* **Procacci, Aldo et al., 2005m:60237**
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Cancrini, Nicoletta (*with* Cesi, Filippo; Roberto, Cyril) Diffusive long-time behavior of Kawasaki dynamics. (English summary) **2005m:60228**
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Castell, Fabienne *see* **Asselah, Amine**, **2005b:60249**
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Coombes, S. *see* **Timofeeva, Y.**
Cox, J. Theodore (*with* Perkins, Edwin A.) An application of the voter model–super-Brownian motion invariance principle. (English and French summaries) **2005b:60254**
— (*with* Dawson, Donald A.; Greven, Andreas) Mutually catalytic super branching random walks: large finite systems and renormalization analysis. (English summary) **2005k:60298**
Dai Pra, Paolo *see* **Asselah, Amine**, **2005m:60224**
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— (*with* Häggström, Olle; Bagley, J.) A stochastic model for competing growth on $\mathbf{R}^d$. (English summary) **2005g:60161**
Delgado, Rosario (*with* López Lorente, F. Javier; Sanz, Gerardo) Local conditions for the stochastic comparison of particle systems. (English summary) **2005m:60229**
Delitala, Marcello *see* **Bertotti, Maria Letizia**, **2005e:60231**
Dermoune, Azzouz (*with* Filali, Siham) Diffusion with interactions between two types of particles and pressureless gas equations. (English and French summaries) **2005d:60152**
— (*with* Heinrich, Philippe) A small step towards the hydrodynamic limit of a colored disordered lattice gas. (English and French summaries) **2005h:60294**
Derrida, Bernard Statistical properties of genealogical trees. (English summary)
Deuschel, Jean-Dominique The random walk representation for interacting diffusion processes. (English summary) **2005m:60230**
Diaconis, Persi (*with* Mayer-Wolf, Eddy; Zeitouni, Ofer; Zerner, Martin P. W.) The Poisson-Dirichlet law is the unique invariant distribution for uniform split-merge transformations. (English summary) **2005e:60232**
Dubédat, Julien SLE(κ, ρ) martingales and duality. (English summary) **2005j:60180**
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Feng, Shui (*with* Grigorescu, Ilie; Quastel, Jeremy) Diffusive scaling limits of mutually interacting particle systems. (English summary) **2005f:60212**
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— *see also* **Andjel, E. et al.**, **2005h:60292**
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Fontes, Luiz R. G. *see* **Ferrari, Pablo Augusto et al.**, **2005h:60295**
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— (*with* Giet, Jean-Sébastien) Convergence of the Marcus-Lushnikov process. (English summary) **2005b:60255**
Fritz, József Entropy pairs and compensated compactness for weakly asymmetric systems. (English summary) **2005f:60213**
Funaki, Tadahisa Zero temperature limit for interacting Brownian particles. I. Motion of a single body. (English summary) **2005k:60300a**
— Zero temperature limit for interacting Brownian particles. II. Coagulation in one dimension. (English summary) **2005k:60300b**
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Gangopadhyay, Sreela (*with* Roy, Rahul; Sarkar, Anish) Random oriented trees: a model of drainage networks. (English summary) **2005i:60194**
Gao, Fu Qing (*with* Quastel, Jeremy) Exponential decay of entropy in the random transposition and Bernoulli-Laplace models. (English summary) **2005a:60155**
— (*with* Quastel, Jeremy) Moderate deviations from the hydrodynamic limit of the symmetric exclusion process. (English summary) **2005b:60256**
Garet, Olivier (*with* Marchand, Régine) Asymptotic shape for the chemical distance and first-passage percolation on the infinite Bernoulli cluster. (English summary) **2005i:60195**
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— *see also* **Cox, J. Theodore et al.**, **2005k:60298**
Grigorescu, Ilie (*with* Kang, Min; Seppäläinen, Timo) Behavior dominated by slow particles in a disordered asymmetric exclusion process. (English summary) **2005f:60214**
— (*with* Kang, Min) Hydrodynamic limit for a Fleming-Viot type system. (English summary) **2005d:60153**
— *see also* **Feng, Shui et al.**, **2005f:60212**
Guiol, H. About the long range exclusion process. (English summary) **2005f:60215**
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Guyon, Xavier (*with* Pumo, Besnik) Estimation spatio-temporelle d'un modèle de système de particules. (English and French summaries) [Space-time estimation of a particle system model] **2005m:60233**
Häggström, Olle Uniqueness of infinite rigid components in percolation models: the case of nonplanar lattices. (English summary) **2005b:60257**
— *see also* **Deijfen, Maria et al.**, **2005g:60161** *and* **2005k:60299**
Hambly, Ben M. (*with* Jordan, Jonathan) A random hierarchical lattice: the series-parallel graph and its properties. (English summary) **2005g:60162**
Hammond, Alan Critical exponents in percolation via lattice animals. (English summary) **2005k:60302**
Hara, Takashi (*with* van der Hofstad, Remco; Slade, Gordon) Critical two-point functions and the lace expansion for spread-out high-dimensional percolation and related models. (English summary) **2005c:60130**
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— *see also* **Heicklen, Deborah**, **2005j:60182**
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Howard, C. Douglas Models of first-passage percolation. **2005b:60258**
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Janson, Svante (*with* Mossel, Elchanan) Robust reconstruction on trees is determined by the second eigenvalue. (English summary) **2005h:60296**
— (*with* Chassaing, Philippe) The center of mass of the ISE and the Wiener index of trees. (English summary) **2005k:60303**
Jia, Shumei Complete convergence theory of the contact process on $T_d \times \mathbf{Z}$. (English summary) **2005h:60297**
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— *see also* **Al'beverio, S. et al.**, **2005g:60160**
Konno, Norio (*with* Schinazi, Rinaldo B.; Tanemura, Hideki) Coexistence results for a spatial stochastic epidemic model. (English summary) **2005h:60298**
— *see also* **Katori, Makoto et al.**, **2005a:60156**
Konstantinov, A. Yu. *see* **Kondrat'ev, Yu. G. et al.**, **2005g:60163**
Kurkova, Irina (*with* Popov, S. Yu.; Vachkovskaia, Marina) On infection spreading and competition between independent random walks. (English summary) **2005h:60299**
— *see also* **Comets, Francis et al.**, **2005f:60211**
Lalley, Steven P. Strict convexity of the limit shape in first-passage percolation. (English summary) **2005f:60216**
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Lawler, Gregory F. An introduction to the stochastic Loewner evolution. (English summary) **2005f:60217**
Le Jan, Yves (*with* Raimond, Olivier) Sticky flows on the circle and their noises. (English summary) **2005c:60131**
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Luckhaus, Stephan (*with* Triolo, Livio) The continuum reaction-diffusion limit of a stochastic cellular growth model. (English summary)
Maes, Christian New trends in interacting particle systems. (English summary)
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Martin, James B. Limiting shape for directed percolation models. (English summary) **2005i:60198**
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Mathieu, Pierre[2] (*with* Remy, Elisabeth) Isoperimetry and heat kernel decay on percolation clusters. (English summary) **2005e:60233**
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Méléard, Sylvie *see* **Fournier, Nicolas**, **2005m:60231**
Menshikov, M. V. (*with* Popov, S. Yu.; Vachkovskaia, Marina) On a multiscale continuous percolation model with unbounded defects. (English summary) **2005c:60132**
Mossel, Elchanan *see* **Janson, Svante**, **2005h:60296**
Nagahata, Yukio (*with* Uchiyama, Kôhei) An estimate of the spectral gap for zero-range-exclusion dynamics. **2005j:60184**
— Regularity of the diffusion coefficient matrix for the lattice gas with energy. (English and French summaries) **2005k:60305**

Newman, Charles M. (*with* Ravishankar, K.; Sun, Rongfeng) Convergence of coalescing nonsimple random walks to the Brownian web. (English summary) **2005k:60306**
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Procacci, Aldo (*with* Scoppola, Benedetto; Braga, G. A.; Sanchis, R.) Percolation connectivity in the highly supercritical regime. (English summary) **2005m:60237**
— *see also* **Braga, G. A. et al., 2005m:60227**
Pumo, Besnik *see* **Guyon, Xavier, 2005m:60233**
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Raimond, Olivier *see* **Le Jan, Yves, 2005c:60131**
Ramírez, A. F. (*with* Sidoravicius, Vladas) Asymptotic behavior of a stochastic combustion growth process. (English summary) **2005e:60234**
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Ren, Yong (*with* Guo, Ming Le) Estimation of bounds for the survival probability of a voter model in a binary random environment. (Chinese. English and Chinese summaries) **2005h:60301**
Roberto, Cyril *see* **Cancrini, Nicoletta et al., 2005m:60228**
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Sakai, Akira[2] Mean-field behavior for the survival probability and the percolation point-to-surface connectivity. (English summary) **2005h:60302**
— Erratum on: "Mean-field behavior for the survival probability and the percolation point-to-surface connectivity" [J. Statist. Phys. **117** (2004), no. 1-2, 111–130; MR2098561 (2005h:60302)].
Sanchis, R. *see* **Braga, G. A. et al., 2005m:60227** *and* **Procacci, Aldo et al., 2005m:60237**
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Schinazi, Rinaldo B. Can HIV invade a population which is already sick? (English summary) **2005d:60154**
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— *see also* **Konno, Norio et al., 2005h:60298**
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Sidoravicius, Vladas (*with* Sznitman, Alain-Sol) Quenched invariance principles for walks on clusters of percolation or among random conductances. (English summary) **2005d:60155**
— *see also* **Ramírez, A. F., 2005e:60234**
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Timofeeva, Y. (*with* Coombes, S.) Directed percolation in a two-dimensional stochastic fire-diffuse-fire model. (English summary)
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Wang, Hao[5] Singular spacetime Itô's integral and a class of singular interacting branching particle systems. (English summary) **2005k:60309**
— Addendum to: "Singular spacetime Itô's integral and a class of singular interacting branching particle systems" [Infin. Dimens. Anal. Quantum Probab. Relat. Top. **6** (2003), no. 2, 321–335; MR1991498 (2005k:60309)]. **2005k:60310**
Wang, Shi Jie[2] *see* **Huang, Xu Dong[2], 2005m:60236**
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Yau, Horng-Tzer $(\log t)^{2/3}$ law of the two dimensional asymmetric simple exclusion process. (English summary) **2005d:60156**
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Zhang, Yu[1] On the infinite differentiability of the right edge in the supercritical oriented percolation. (English summary) **2005i:60200**
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Items with secondary classifications in 60K35

Abadi, Miguel (*with* Chazottes, J.-R.; Redig, Frank; Verbitskiĭ, E. A.) Exponential distribution for the occurrence of rare patterns in Gibbsian random fields. (English summary) **2005b:60129**
Aldous, David J. Percolation-like scaling exponents for minimal paths and trees in the stochastic mean field model. (English summary) **2005k:82036**
Alon, Noga (*with* Benjamini, Itai; Stacey, Alan) Percolation on finite graphs and isoperimetric inequalities. (English summary) **2005f:05149**
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— (*with* Schramm, Oded) Uniform infinite planar triangulations. (English summary) **2005b:60021**
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Ben Arous, Gérard (*with* Sortais, Michel) Large deviations in the Langevin dynamics of a short-range spin glass. (English summary) **2005d:60039**
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van den Berg, Jacob (*with* Járai, Antal, Jr.) On the asymptotic density in a one-dimensional self-organized critical forest-fire model. (English summary) **2005m:82107**
Berger, Noam (*with* Kenyon, Claire; Mossel, Elchanan; Peres, Yuval) Glauber dynamics on trees and hyperbolic graphs. (English summary) **2005k:82066**
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— (*with* Cirillo, Emilio N. M.; Olivieri, Enzo) Gibbsian properties and convergence of the iterates for the block averaging transformation. (English summary) **2005e:82039**
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— (*with* Blanchard, Philippe; Chayes, Lincoln; Gandolfo, D.; Krüger, Tyll) Phase transition and critical behavior in a model of organized criticality. (English summary) **2005c:82079**
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Boos, Herman E. (*with* Korepin, Vladimir; Smirnov, Fedor A.) Emptiness formation probability and quantum Knizhnik-Zamolodchikov equation. (English summary) **2005f:82013**
Booth, Lorna *see* **Franceschetti, Massimo et al., 2005k:82037**
Borgs, Christian (*with* Chayes, Jennifer T.; Dyer, Martin; Tetali, Prasad) On the sampling problem for H-colorings on the hypercubic lattice. (English summary) **2005e:05046**
Borovskikh, Yu. V. (*with* Weber, N. C.) Large deviations of U-statistics. I. (English and Lithuanian summaries) **2005e:60055**
Bovier, Anton (*with* Kurkova, Irina) Derrida's generalised random energy models. I. Models with finitely many hierarchies. (English and French summaries) **2005h:82053**
— (*with* Kurkova, Irina) Derrida's generalized random energy models. II. Models with continuous hierarchies. (English and French summaries) **2005h:82054**
Brak, Richard (*with* Essam, J. W.) Asymmetric exclusion model and weighted lattice paths. (English summary) **2005f:82040**
Brankov, Jordan G. (*with* Priezzhev, V. B.; Shelest, R. V.) Generalized determinant solution of the discrete-time totally asymmetric exclusion process and zero-range process. (English summary)
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Camia, Federico (*with* Newman, Charles M.; Sidoravicius, Vladas) A particular bit of universality: scaling limits of some dependent percolation models. (English summary) **2005d:82047**

Campanino, Massimo (*with* Ioffe, Dimitri; Velenik, Yvan) Ornstein-Zernike theory for finite range Ising models above T_c. (English summary) **2005b:82016**

— (*with* Ioffe, Dimitri; Velenik, Yvan) Random path representation and sharp correlations asymptotics at high-temperatures. (English summary) **2005h:82069**

Cantrell, Robert Stephen (*with* Cosner, Chris) Deriving reaction-diffusion models in ecology from interacting particle systems. (English summary) **2005b:92063**

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Caputo, Pietro (*with* Martinelli, Fabio) Relaxation time of anisotropic simple exclusion processes and quantum Heisenberg models. (English summary) **2005b:82009**

Cardy, John Conformal invariance in percolation, self-avoiding walks, and related problems. (English summary) **2005e:82035**

— SLE for theoretical physicists. (English summary)

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Cassi, Davide *see* **Vezzani, Alessandro et al.**, **2005h:82026**

Chang, Chih-Chung (*with* Landim, Claudio; Lee, Tzong-Yow) Occupation time large deviations of two-dimensional symmetric simple exclusion process. (English summary) **2005a:60036**

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Chayes, Lincoln *see* **Biskup, Marek et al.**, **2005a:82023** *and* **2005c:82079**

Chazottes, J.-R. *see* **Abadi, Miguel et al.**, **2005b:60129**

Chebikin, Denis (*with* Pylyavskyy, Pavlo) A family of bijections between G-parking functions and spanning trees. (English summary) **2005m:05010**

Chen, Dayue (*with* Peres, Yuval) Anchored expansion, percolation and speed. (English summary) **2005g:60022**

Chen, Mu-Fa ★ From Markov chains to non-equilibrium particle systems. **2005h:60004**

— ★ Eigenvalues, inequalities, and ergodic theory. **2005m:60001**

Cheng, Rulian *see* **Wierman, John C. et al.**, **2005i:05179**

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— *see also* **Daduna, Hans et al.**, **2005i:90092**

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Coffman, E. G., Jr. *see* **Baryshnikov, Yu. M. et al.**, **2005h:60230**

Comets, Francis (*with* Shiga, Tokuzo; Yoshida, Nobuo) Probabilistic analysis of directed polymers in a random environment: a review. (English summary) **2005d:82050**

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Daduna, Hans (*with* Knopov, Pavel S.; Chornei, Ruslan K.) Controlled semi-Markov fields on graphs with a compact state space. (Ukrainian. Ukrainian summary) **2005i:90092**

— *see also* **Chornei, Ruslan K. et al.**, **2005f:91023**

Dawson, Donald A. (*with* Li, Zeng Hu; Zhou, Xiao Wen) Superprocesses with coalescing Brownian spatial motion as large-scale limits. (English summary) **2005k:60269**

Del Moral, Pierre (*with* Doucet, Arnaud) On a class of genealogical and interacting Metropolis models. (English summary) **2005g:65013**

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— (*with* Douçot, B.; Roche, P.-E.) Current fluctuations in the one-dimensional symmetric exclusion process with open boundaries. (English summary) **2005d:82089**

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De Sanctis, L. (*with* Isopi, M.) On the "matrix approach" to interacting particle systems. (English summary) **2005c:82064**

Desolneux, Agnès (*with* Sapoval, Bernard; Baldassarri, Andrea) Self-organized percolation power laws with and without fractal geometry in the etching of random solids. (English summary) **2005m:82064**

Dorlas, Teunis C. (*with* Priezzhev, V. B.) A normalization identity for the asymmetric exclusion process on a ring. (English summary) **2005j:82055**

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Dyer, Martin (*with* Sinclair, Alistair; Vigoda, Eric; Weitz, Dror) Mixing in time and space for lattice spin systems: a combinatorial view. (English summary) **2005d:82082**

— *see also* **Borgs, Christian et al.**, **2005e:05046**

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— *see also* **Derrida, Bernard et al.**, **2005h:82085**

Ercolani, Nicholas M. (*with* McLaughlin, Kenneth D. T.-R.) Asymptotics of the partition function for random matrices via Riemann-Hilbert techniques and applications to graphical enumeration. **2005f:82048**

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Fayolle, Guy (*with* Furtlehner, Cyril) Stochastic deformations of sample paths of random walks and exclusion models. (English summary) **2005j:60079**

— (*with* Furtlehner, Cyril) Dynamical windings of random walks and exclusion models. I. Thermodynamic limit in $\mathbb{Z}^2$. (English summary) **2005c:82037**

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— (*with* Maillard, Grégory) Chains with complete connections: general theory, uniqueness, loss of memory and mixing properties. (English summary) **2005k:82003**

Ferrari, Pablo Augusto (*with* Landim, Claudio; Thorisson, Hermann) Poisson trees, succession lines and coalescing random walks. (English and French summaries) **2005e:60105**

Ferrari, Patrik L. Polynuclear growth on a flat substrate and edge scaling of GOE eigenvalues. (English summary) **2005m:82135**

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Forrester, Peter J. (*with* Witte, N. S.) Application of the τ-function theory of Painlevé equations to random matrices: P_{VI}, the JUE, CyUE, cJUE and scaled limits. (English summary) **2005h:33047**

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— (*with* Mallick, K.) Hidden symmetries in the asymmetric exclusion process. (English summary) **2005i:82050**

Gotts, Nicholas M. Self-organized construction in sparse random arrays of Conway's game of life. **2005f:68097**

Gravner, Janko Growth phenomena in cellular automata. **2005d:82085**

Guerra, Francesco (*with* Toninelli, Fabio Lucio) The high temperature region of the Viana-Bray diluted spin glass model. (English summary) **2005d:82053**

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— (*with* Külske, Christof) Gibbs properties of the fuzzy Potts model on trees and in mean field. (English summary) **2005m:82022**

Han, Dong (*with* Han, Yian-lin) Gelation of a reversible Markov process of polymerization. (English summary) **2005j:82027**

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Hiebeler, David Spatially correlated disturbances in a locally dispersing population model. (English summary)

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— (*with* Takei, Masato) Some results on the phase structure of the two-dimensional Widom-Rowlinson model. **2005f:82016**

den Hollander, Frank Gibbs under stochastic dynamics? (English summary)

Holmes, Mark P. (*with* Járai, Antal, Jr.; Sakai, Akira[2]; Slade, Gordon) High-dimensional graphical networks of self-avoiding walks. (English summary) **2005d:82043**

Holroyd, Alexander E. (*with* Liggett, Thomas M.; Romik, Dan) Integrals, partitions, and cellular automata. (English summary) **2005b:60018**

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Jelenković, Predrag R. *see* **Baryshnikov, Yu. M. et al., 2005h:60230**
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Juhász, Róbert (*with* Santen, Ludger) Dynamics of an exclusion process with creation and annihilation. (English summary) **2005g:82088**
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— (*with* Berkenbusch, Marko Kleine) Corrigendum: "Trace for the Loewner equation with singular forcing" [Nonlinearity **17** (2004), no. 4, R41–R54; MR2069697 (2005b:37206)]. **2005j:37144**
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— *see also* **Häggström, Olle, 2005m:82022**
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Lakatos, Greg (*with* Chou, Tom; Kolomeisky, Anatoly B.) Steady-state properties of a totally asymmetric exclusion process with periodic structure. (English summary) **2005m:82139**
Landim, Claudio (*with* Quastel, Jeremy; Salmhofer, M.; Yau, Horng-Tzer) Superdiffusivity of asymmetric exclusion process in dimensions one and two. (English summary) **2005a:60118**
— (*with* Olla, Stefano; Varadhan, Srinivasa R. S.) On viscosity and fluctuation-dissipation in exclusion processes. (English summary) **2005k:82067**
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Lin, Xue (*with* Wierman, John C.) Cycles as constraint graphs in multi-type percolation. (English summary)
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— *see also* **Caputo, Pietro, 2005b:82009**
May, William D. *see* **Wierman, John C. et al., 2005i:05179**
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Mitsudo, Tetsuya (*with* Hayakawa, Hisao) Synchronization of kinks in the two-lane totally asymmetric simple exclusion process with open boundary conditions. (English summary) **2005k:82068**
Molchan, G. On the uniqueness of the branching parameter for a random cascade measure. (English summary) **2005c:60065**
Møller, Jesper (*with* Torrisi, Giovanni Luca) Generalised shot noise Cox processes. (English summary) **2005k:60040**
Monroe, James L. The bilayer Ising model and a generalized Husimi tree approximation. (English summary) **2005c:82019**
Morale, Daniela (*with* Capasso, Vincenzo; Oelschläger, Karl) An interacting particle system modelling aggregation behavior: from individuals to populations. (English summary) **2005i:92022**
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— Phase transitions in phylogeny. (English summary) **2005b:82019**
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Reeves, Robert W. (*with* Pettitt, A. N.) Efficient recursions for general factorisable models. (English summary)
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Roy, Rahul *see* **Athreya, Siva R. et al., 2005d:60018**
Roynette, Bernard *see* **Fournier, Nicolas et al., 2005c:60116**
Rozikov, Utkir A. On q-component models on Cayley tree: contour method. (English summary) **2005m:82029**
Sakai, Akira[2] *see* **Holmes, Mark P. et al., 2005d:82043**
Salmhofer, M. *see* **Landim, Claudio et al., 2005a:60118**
Salzano, Márcia ★ The contact process on graphs. (English summary) **2005h:60008**
Santen, Ludger *see* **Juhász, Róbert, 2005g:82088**
Sapoval, Bernard *see* **Desolneux, Agnès et al., 2005m:82064**

Sarkar, Anish *see* **Athreya, Siva R. et al., 2005d:60018**
Sasamoto, Tomohiro *see* **Nagao, Taro, 2005g:82089** *and* **Imamura, Takashi, 2005m:82137**
(Schonmann, Roberto H.) *see* **Salzano, Márcia, 2005h:60008**
Schramm, Oded *see* **Angel, Omer, 2005b:60021**
Scoppola, Benedetto *see* **Procacci, Aldo, 2005e:82048**
Shelest, R. V. *see* **Brankov, Jordan G. et al.**
Shiga, Tokuzo *see* **Comets, Francis et al., 2005d:82050**
Sidoravicius, Vladas *see* **Camia, Federico et al., 2005d:82047**
Simonelli, Italo *see* **Galambos, Janos, 2005g:60005**
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Slade, Gordon *see* **Holmes, Mark P. et al., 2005d:82043**
Smirnov, Fedor A. *see* **Boos, Herman E. et al., 2005f:82013**
Sopasakis, A. *see* **Katsoulakis, M. A. et al., 2005m:76144**
Sortais, Michel *see* **Ben Arous, Gérard, 2005d:60039**
Stacey, Alan *see* **Alon, Noga et al., 2005f:05149**
Stenull, Olaf *see* **Janssen, Hans-Karl et al., 2005k:82038**
Sturm, A. K. *see* **Barton, N. H. et al., 2005e:60190** *and* **Fleischmann, Klaus, 2005h:60254**
Sudbury, Aidan The annihilating process on random trees and the square lattice. (English summary) **2005g:82090**
Swart, Jan M. *see* **Fleischmann, Klaus, 2005m:60190**
Takei, Masato *see* **Higuchi, Yasunari, 2005f:82016**
Talagrand, Michel ★ Spin glasses: a challenge for mathematicians. **2005m:82074**
— Mean field models for spin glasses: a first course. **2005b:82045**
— On Guerra's broken replica-symmetry bound. (English and French summaries) **2005b:82046**
— *see also* **Panchenko, Dmitriĭ Anatol'evich, 2005j:82039**
Talay, Denis *see* **Régnier, Hervé, 2005b:60227**
Tanemura, Hideki *see* **Katori, Makoto et al., 2005f:82077**
Tanré, Etienne *see* **Fournier, Nicolas et al., 2005e:60116**
Tetali, Prasad *see* **Borgs, Christian et al., 2005e:05046**
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Timár, Ádám Tree and grid factors for general point processes. (English summary) **2005h:60145**
Tindel, Samy *see* **Bardina, Xavier et al., 2005i:82030**
Toninelli, Cristina *see* **Bertini, Lorenzo, 2005e:82075**
Toninelli, Fabio Lucio *see* **Guerra, Francesco, 2005d:82053** *and* **Franz, Silvio, 2005h:82060**
Torrisi, Giovanni Luca *see* **Møller, Jesper, 2005k:60040**
Tribe, Roger *see* **Horridge, Paul, 2005m:60134**
Tsirelson, Boris Scaling limit, noise, stability. (English summary) **2005g:60066**
Tupper, P. F. A test problem for molecular dynamics integrators. (English summary) **2005m:82149**
Uchiyama, Kôhei Equilibrium fluctuations for zero-range-exclusion processes. (English summary) **2005g:82092**
Upfal, Eli *see* **Flaxman, Abraham D. et al., 2005a:68021**
Varadhan, Srinivasa R. S. Particle systems and partial differential equations. **2005b:82061**
— Large deviations for the asymmetric simple exclusion process. (English summary) **2005f:60072**
— *see also* **Landim, Claudio et al., 2005k:82067**
Vares, Maria Eulália *see* **Olivieri, Enzo, 2005k:60007**
Velenik, Yvan Entropic repulsion of an interface in an external field. (English summary) **2005f:82032**
— *see also* **Campanino, Massimo et al., 2005b:82016** *and* **2005h:82069**
Verbitskiĭ, E. A. *see* **Abadi, Miguel et al., 2005b:60129**
Vezzani, Alessandro (*with* Cassi, Davide; Burioni, Raffaella) Average properties of combinatorial problems and thermodynamics of spin models on graphs. (English summary) **2005h:82026**
Vigoda, Eric *see* **Dyer, Martin et al., 2005d:82082**
Wang, Feng Yu *see* **Bogachev, Vladimir I. et al., 2005g:58064**
Wang, Jun *see* **Higuchi, Yasunari et al., 2005h:82087**
Weber, N. C. *see* **Borovskikh, Yu. V., 2005e:60055**
Weitz, Dror *see* **Dyer, Martin et al., 2005d:82082** *and* **Martinelli, Fabio et al., 2005j:82052**
Wennberg, Bernt *see* **Ricci, Valeria, 2005g:82117**
Werner, Wendelin SLEs as boundaries of clusters of Brownian loops. (English and French summaries) **2005b:60221**
— Random planar curves and Schramm-Loewner evolutions. (English summary) **2005m:60020**
Wierman, John C. (*with* Cheng, Rulian; May, William D.) Estimating bond percolation thresholds using the substitution method. (English summary) **2005i:05179**
— *see also* **Lin, Xue**
Wilson, David Bruce *see* **Kenyon, Richard W., 2005g:82020**
Winkler, Karen *see* **Bray, Alan J., 2005d:82041**
Witte, N. S. *see* **Forrester, Peter J., 2005h:33047**
Wu, Li Ming[1] Estimate of spectral gap for continuous gas. (English and French summaries) **2005e:82007**
Xiong, Jie *see* **Kurtz, Thomas G., 2005m:60136**
Xu, Susan H. *see* **Chatterjee, Kalyan, 2005d:91016**
Yambartsev, A. A. (*with* Zamyatin, A. A.) A stabilization law for two semi-infinite interacting strings of characters. (English summary) **2005b:60181**
Yarykin, P. N. The behavior of a stochastic process describing a system of particles with mean-field interaction. (Russian. Russian summary) **2005g:60097**
Yau, Horng-Tzer *see* **Landim, Claudio et al., 2005a:60118**
Yoshida, Nobuo *see* **Comets, Francis et al., 2005d:82050**
Zamyatin, A. A. *see* **Yambartsev, A. A., 2005b:60181**
Zhang, Fu-xi Exclusion processes on groups: entropy production density and reversibility. (English summary) **2005j:82059**
Zhizhina, E. A. Spectral analysis of a one-dimensional stochastic Ising model with a random potential: asymptotics of an autocorrelation function. (Russian. Russian summary) **2005e:82105**
— Convergence properties of quasi-particles of various species in the stochastic Blume-Capel model. (English summary) **2005g:82093**
Zhou, Xiao Wen *see* **Dawson, Donald A. et al., 2005k:60269**
van Zwet, Willem R. *see* **Fiocco, Marta, 2005b:62175**

Items listed otherwise than by author

Biography:
Salzano, Márcia *see* **Salzano, Márcia, 2005h:60008**

60K37 Processes in random environments

Adelman, Omer (*with* Enriquez, Nathanaël) Random walks in random environment: what a single trajectory tells. (English summary) **2005h:60304**
Al'beverio, S. (*with* Kozlov, M. V.) On the recurrence and transience of state-dependent branching process in a random environment. (Russian. Russian summary) **2005m:60240**
Andreoletti, Pierre Alternative proof for the localization of Sinai's walk. (English summary) **2005m:60241**
Birkner, Matthias (*with* Geiger, Jochen; Kersting, Götz) Branching processes in random environment—a view on critical and subcritical cases. (English summary) (*see* **2005i:00006**)
Bolthausen, Erwin (*with* Sznitman, Alain-Sol) On the static and dynamic points of view for certain random walks in random environment. (English summary) **2005c:60133**
Borovkov, K. A note on diffusion-type approximation to branching processes in random environments. (Russian summary) **2005a:60158**
Brémont, Julien Random walks in random medium on $\mathbb{Z}$ and Lyapunov spectrum. (English and French summaries) **2005b:60263**
— Behavior of random walks on $\mathbb{Z}$ in Gibbsian medium. (English and French summaries) **2005e:60235**
Busarov, V. A. On the asymptotic behavior of random walks in a random environment with a delaying screen. (Russian. Russian summary)
Carmona, Philippe (*with* Hu, Yueyun) Fluctuation exponents and large deviations for directed polymers in a random environment. (English summary) **2005f:60218**
Comets, Francis (*with* Popov, S. Yu.) Limit law for transition probabilities and moderate deviations for Sinai's random walk in random environment. (English summary) **2005d:60157**
— (*with* Popov, S. Yu.) A note on quenched moderate deviations for Sinai's random walk in random environment. (English summary) **2005h:60305**
— (*with* Yoshida, Nobuo) Brownian directed polymers in random environment. (English summary) **2005m:60242**
Crisan, Dan Superprocesses in a Brownian environment. (English summary) **2005h:60306**
Dai, Yong Long *see* **Liu, Xiang Dong[2], 2005h:60308** *and* **2005k:60314**
Del Moral, Pierre (*with* Doucet, Arnaud) Particle motions in absorbing medium with hard and soft obstacles. (English summary) **2005h:60307**
Doucet, Arnaud *see* **Del Moral, Pierre, 2005h:60307**
Dyakonova, E. E. (*with* Geiger, Jochen; Vatutin, Vladimir A.) On the survival probability and a functional limit theorem for branching processes in random environment. (English summary) **2005i:60201**
— *see also* **Vatutin, Vladimir A., 2005h:60313**
Eliazar, Iddo The snowblower problem. (English summary) **2005d:60158**
Enriquez, Nathanaël *see* **Adelman, Omer, 2005h:60304**
Geiger, Jochen *see* **Dyakonova, E. E. et al., 2005i:60201** *and* **Birkner, Matthias et al., (2005i:00006)**
Guivarc'h, Yves (*with* Le Page, Emile; Liu, Quansheng) Normalisation d'un processus de branchement critique dans un environnement aléatoire. (English and French summaries) [Normalization of a critical branching process in a random environment] **2005j:60185**
Guo, Ming Le A strong law of large numbers for Markov chains in Markovian environments. (Chinese. English and Chinese summaries) **2005a:60159**
He, Shao Feng (*with* Liu, Ci Hua) Recurrence of random walks in independent environment on half-line. (Chinese. English and Chinese summaries) **2005k:60312**
Hirano, Katsuhiro On the maximum of a diffusion process in a random Lévy environment. **2005d:60159**
den Hollander, Frank (*with* Keane, Michael S.; Serafin, J.; Steif, J. E.) Weak Bernoullicity of random walk in random scenery. (English summary) **2005a:60160**
Hou, Chuan Zhi (*with* Hu, Di He) Polarization of linear controlled branching processes in random environments. (Chinese. English and Chinese summaries) **2005e:60236**
Hu, Di He The existence and moments of canonical branching chain in random environment. (English summary) **2005f:60219**
— From $(p-m)$ chains to Markov chains in random environments. (Chinese. English and Chinese summaries) **2005e:60237**
— *see also* **Hou, Chuan Zhi, 2005e:60236** *and* **Yi, Xiao Wei, 2005h:60314**
Hu, Yueyun (*with* Shi, Zhan) Moderate deviations for diffusions with Brownian potentials. (English summary) **2005g:60164**
— *see also* **Carmona, Philippe, 2005f:60218**
Keane, Michael S. *see* **den Hollander, Frank et al., 2005a:60160**
Kersting, Götz *see* **Birkner, Matthias et al., (2005i:00006)**
Khoshnevisan, Davar The codimension of the zeros of a stable process in random scenery. (English summary) **2005c:60134**
Kouritzin, Michael A. (*with* Long, Hongwei; Sun, Wei[3]) Nonlinear filtering for diffusions in random environments. (English summary) **2005a:60161**
— (*with* Sun, Wei[3]; Xiong, Jie) Nonlinear filtering for reflecting diffusions in random environments via nonparametric estimation. (English summary) **2005j:60186**
Kozlov, M. V. *see* **Al'beverio, S., 2005m:60240**
Landim, Claudio (*with* Noronha Neto, J.) Poincaré and logarithmic Sobolev inequality for Ginzburg-Landau processes in random environment. (English summary) **2005k:60313**
Le Page, Emile *see* **Guivarc'h, Yves et al., 2005j:60185**
Li, Bo[7] *see* **Zhang, Xiao Min, 2005b:60264** *and* **2005g:60169**
Liu, Ci Hua *see* **He, Shao Feng, 2005k:60312**
Liu, Quansheng *see* **Guivarc'h, Yves et al., 2005j:60185**
Liu, Xiang Dong[2] (*with* Dai, Yong Long) A class of random walks with unbounded jumps in random environments. (Chinese. English and Chinese summaries) **2005h:60308**

— (*with* Dai, Yong Long) A class of random walks on half-line in random environments. (Chinese. English and Chinese summaries) **2005k:60314**

Long, Hongwei *see* **Kouritzin, Michael A. et al., 2005a:60161**

Löwe, Matthias (*with* Matzinger, Heinrich[2]; Merkl, Franz) Reconstructing a multicolor random scenery seen along a random walk path with bounded jumps. (English summary) **2005h:60309**

Machado, F. P. (*with* Popov, S. Yu.) Branching random walk in random environment on trees. (English summary) **2005e:60238**

Matzinger, Heinrich[2] Reconstructing a two-color scenery by observing it along a simple random walk path. (English summary) **2005m:60243**

— *see also* **Löwe, Matthias et al., 2005h:60309**

Mayer-Wolf, Eddy (*with* Roitershtein, Alexander; Zeitouni, Ofer) Limit theorems for one-dimensional transient random walks in Markov environments. (English and French summaries) **2005g:60165**

Mejane, Olivier Upper bound of a volume exponent for directed polymers in a random environment. (English and French summaries) **2005e:60239**

Menshikov, M. V. (*with* Popov, S. Yu.; Sisko, V.; Vachkovskaia, Marina) On a many-dimensional random walk in a rarefied random environment. (English summary) **2005h:60310**

Merkl, Franz *see* **Löwe, Matthias et al., 2005h:60309**

Noronha Neto, J. *see* **Landim, Claudio, 2005k:60313**

Olla, Stefano (*with* Siri, Paola) Homogenization of a bond diffusion in a locally ergodic random environment. (English summary) **2005a:60162**

Piau, Didier Further scaling exponents of random walks in random sceneries. (English summary) **2005d:60160**

Popov, S. Yu. *see* **Comets, Francis, 2005d:60157; 2005h:60305; Machado, F. P., 2005e:60238** *and* **Menshikov, M. V. et al., 2005h:60310**

Rassoul-Agha, Firas On the zero-one law and the law of large numbers for random walk in mixing random environment. (English summary) **2005k:60315**

Roitershtein, Alexander *see* **Mayer-Wolf, Eddy et al., 2005g:60165**

Rovira, Carles (*with* Tindel, Samy) On the Brownian-directed polymer in a Gaussian random environment. (English summary) **2005m:60244**

Sabot, Christophe Ballistic random walks in random environment at low disorder. (English summary) **2005g:60166**

Serafin, J. *see* **den Hollander, Frank et al., 2005a:60160**

Shi, Zhan *see* **Hu, Yueyun, 2005g:60164**

Siri, Paola *see* **Olla, Stefano, 2005a:60162**

Sisko, V. *see* **Menshikov, M. V. et al., 2005h:60310**

Steif, J. E. *see* **den Hollander, Frank et al., 2005a:60160**

Sun, Wei[3] *see* **Kouritzin, Michael A. et al., 2005a:60161** *and* **2005j:60186**

Sznitman, Alain-Sol *see* **Bolthausen, Erwin, 2005c:60133**

Takahashi, Hiroshi[3] Recurrence and transience of multi-dimensional diffusion processes in reflected Brownian environments. (English summary) **2005h:60311**

Tanaka, Hiroshi[1] Lévy processes conditioned to stay positive and diffusions in random environments. (English summary) **2005e:60240**

Tindel, Samy *see* **Rovira, Carles, 2005m:60244**

Vachkovskaia, Marina *see* **Menshikov, M. V. et al., 2005h:60310**

Varadhan, Srinivasa R. S. Random walks in a random environment. (English summary) **2005h:60312**

Vatutin, Vladimir A. (*with* Dyakonova, E. E.) Yaglom type limit theorem for branching processes in random environment. (English summary) **2005h:60313**

— *see also* **Dyakonova, E. E. et al., 2005i:60201**

Wan, Cheng Gao A strong law of large numbers for Markov chains in Markovian environments. (Chinese. English and Chinese summaries) **2005f:60220**

Xiong, Jie *see* **Kouritzin, Michael A. et al., 2005j:60186**

Yang, Hailiang *see* **Yin, Gang George, 2005g:60167**

Yi, Xiao Wei (*with* Hu, Di He) The class of similar birth and death processes in a random environment. (Chinese. English and Chinese summaries) **2005h:60314**

Yin, Gang George (*with* Yang, Hailiang) Two-time-scale jump-diffusion models with Markovian switching regimes. (English summary) **2005g:60167**

Yoshida, Nobuo Directed polymers in random environments. (Japanese) **2005g:60168**

— *see also* **Comets, Francis, 2005m:60242**

Zeitouni, Ofer *see* **Mayer-Wolf, Eddy et al., 2005g:60165**

Zhang, Xiao Min (*with* Li, Bo[7]) Asymptotic behavior of random walk in random environments. (Chinese. English and Chinese summaries) **2005b:60264**

— (*with* Li, Bo[7]) Some probability properties of random walk in time-random environment. (English summary) **2005g:60169**

Zhang, Yue[1] Recurrence criteria for random walk in a random environment. (Chinese. English and Chinese summaries) **2005g:60170**

Items with secondary classifications in 60K37

Afanas′ev, V. I. (*with* Geiger, Jochen; Kersting, Götz; Vatutin, Vladimir A.) Criticality for branching processes in random environment. (English summary) **2005k:60267**

Almási, B. (*with* Bolch, G.; Sztrik, János) Analyzing Markov-modulated finite source queueing systems. (English summary)

Anton, Lucian (*with* Bray, Alan J.) Approach to asymptotic behaviour in the dynamics of the trapping reaction. (English summary) **2005f:82114**

Ball, Frank G. (*with* Milne, Robin K.) Applications of simple point process methods to superpositions of aggregated stationary processes. (English summary) **2005b:60095**

Baykal-Gursoy, Melike (*with* Xiao, Weihua) Stochastic decomposition in $M/M/\infty$ queues with Markov modulated service rates. (English summary) **2005h:60269**

Bolch, G. *see* **Almási, B. et al.**

Boldrighini, C. (*with* Minlos, Robert; Pellegrinotti, A.) Random walks in quenched i.i.d. space-time random environment are always a.s. diffusive. (English summary) **2005e:60048**

Bray, Alan J. *see* **Anton, Lucian, 2005f:82114**

Campanino, Massimo (*with* Petritis, Dimitri) Random walks on randomly oriented lattices. (English summary) **2005b:60119**

Castell, Fabienne Moderate deviations for diffusions in a random Gaussian shear flow drift. (English and French summaries) **2005b:60062**

Chen, Dayue (*with* Peres, Yuval) Anchored expansion, percolation and speed. (English summary) **2005g:60022**

Comets, Francis (*with* Shiga, Tokuzo; Yoshida, Nobuo) Probabilistic analysis of directed polymers in a random environment: a review. (English summary) **2005d:82050**

— (*with* Zeitouni, Ofer) A law of large numbers for random walks in random mixing environments. (English summary) **2005i:60202**

Dembo, Amir (*with* Gantert, Nina; Zeitouni, Ofer) Large deviations for random walk in random environment with holding times. (English summary) **2005i:60087**

Enriquez, Nathanaël A simple construction of the fractional Brownian motion. (English summary) **2005a:60041**

Fang, Ji-Qian (*with* Li, Caixia) Stochastic processes and their applications in medical science. (English summary) (*see* **2005c:62003**)

Fuh, Cheng-Der On Bahadur efficiency of the maximum likelihood estimator in hidden Markov models. (English summary) **2005a:62186**

Gantert, Nina *see* **Dembo, Amir et al., 2005i:60087**

Geiger, Jochen (*with* Kersting, Götz; Vatutin, Vladimir A.) Limit theorems for subcritical branching processes in random environment. (English and French summaries) **2005d:60136**

— *see also* **Afanas′ev, V. I. et al., 2005k:60267**

Guo, Ming Le Strong laws of large numbers of Markov chains in random environments. (Chinese. English and Chinese summaries) **2005h:60089**

— *see also* **Ren, Yong, 2005h:60301**

Hara, Takashi (*with* van der Hofstad, Remco; Slade, Gordon) Critical two-point functions and the lace expansion for spread-out high-dimensional percolation and related models. (English summary) **2005c:60130**

Hoffman, Christopher Phase transition in dependent percolation. (English summary) **2005i:60196**

van der Hofstad, Remco *see* **Hara, Takashi et al., 2005c:60130**

Hu, Di He The classification and period of states for Markov chain in random environment. (English summary) **2005j:60139**

Kaimanovich, Vadim A. (*with* Kifer, Yuri; Rubshtein, B.-Z.) Boundaries and harmonic functions for random walks with random transition probabilities. (English summary) **2005k:60024**

Karlsson, Anders[2] Linear rate of escape and convergence in direction. (English summary) **2005h:37017**

Kersting, Götz *see* **Geiger, Jochen et al., 2005d:60136** *and* **Afanas′ev, V. I. et al., 2005k:60267**

Kifer, Yuri *see* **Kaimanovich, Vadim A. et al., 2005k:60024**

Klodzins′ka, A. *see* **Voĭna, O. A., 2005m:90008**

Komorowski, Tomasz (*with* Krupa, Grzegorz) The existence of a steady state for a perturbed symmetric random walk on a random lattice. (English summary) **2005j:60067**

Krupa, Grzegorz *see* **Komorowski, Tomasz, 2005j:60067**

Latouche, Guy (*with* Takine, Tetsuya) Markov-renewal fluid queues. (English summary) **2005d:60142**

Li, Caixia *see* **Fang, Ji-Qian, (2005c:62003)**

Li, Haijun On the dependence structure of a system of components with a multivariate shot-noise hazard rate process. (English summary) **2005a:60140**

Macci, Claudio Large deviations for Markov chains in a random scenery with compact support. (English summary) **2005c:60031**

Milne, Robin K. *see* **Ball, Frank G., 2005b:60095**

Minlos, Robert *see* **Boldrighini, C. et al., 2005e:60048**

Pellegrinotti, A. *see* **Boldrighini, C. et al., 2005e:60048**

Peres, Yuval *see* **Chen, Dayue, 2005g:60022**

(Pete, Gábor) *see* **Chen, Dayue, 2005g:60022**

Petritis, Dimitri *see* **Campanino, Massimo, 2005b:60119**

Piau, Didier Immortal branching Markov processes: averaging properties and PCR applications. (English summary) **2005a:60136**

— Confidence intervals for nonhomogeneous branching processes and polymerase chain reactions. (English summary) **2005m:60194**

Rassoul-Agha, Firas Large deviations for random walks in a mixing random environment and other (non-Markov) random walks. (English summary) **2005b:60067**

Reed, Bruce A. The height of a random binary search tree. (English summary) **2005m:68049**

Ren, Yong (*with* Guo, Ming Le) Estimation of bounds for the survival probability of a voter model in a binary random environment. (Chinese. English and Chinese summaries) **2005h:60301**

Rubshtein, B.-Z. *see* **Kaimanovich, Vadim A. et al., 2005k:60024**

Shen, Lian[3] On ballistic diffusions in random environment. (English and French summaries) **2005d:60130**

Shiga, Tokuzo *see* **Comets, Francis et al., 2005d:82050**

Slade, Gordon *see* **Hara, Takashi et al., 2005c:60130**

Stannat, Wilhelm A remark on the CLT for a random walk in a random environment. (English summary) **2005f:60063**

Svishchuk, A. V. (*with* Wu, Jian Hong) ★ Evolution of biological systems in random media: limit theorems and stability. **2005a:60004**

Sztrik, János *see* **Almási, B. et al.**

Takine, Tetsuya Single-server queues with Markov-modulated arrivals and service speed. (English summary) **2005k:60294**

— *see also* **Latouche, Guy, 2005d:60142**

Vatutin, Vladimir A. *see* **Geiger, Jochen et al., 2005d:60136** *and* **Afanas′ev, V. I. et al., 2005k:60267**

Voĭna, O. A. (*with* Klodzins′ka, A.) The risk function in multidimensional inventory control models that operate in a random Markov environment. (Russian. English and Ukrainian summaries) **2005m:90008**

Wu, Jian Hong *see* **Svishchuk, A. V., 2005a:60004**

Xiao, Weihua *see* **Baykal-Gursoy, Melike, 2005h:60269**

Yoshida, Nobuo *see* **Comets, Francis et al., 2005d:82050**

Yoshihara, Ken-ichi ★ Weakly dependent stochastic sequences and their applications. Vol. XIV. **2005h:60009**

Zeitouni, Ofer *see* **Dembo, Amir et al., 2005i:60087** *and* **Comets, Francis, 2005i:60202**

Zhang, Xiao Min A strong law of large numbers for random walk in time-random

environment. (English and Chinese summaries) **2005c:60035**

60K40 Other physical applications of random processes

Comets, Francis (*with* Zeitouni, Ofer) A law of large numbers for random walks in random mixing environments. (English summary) **2005i:60202**
Gaponich, L. S. *see* **Mal′chevskiĭ, I. A. et al.**
Kuz′menko, B. V. *see* **Mal′chevskiĭ, I. A. et al.**
Mal′chevskiĭ, I. A. (*with* Kuz′menko, B. V.; Gaponich, L. S.) Gaussian approximations in the stochastic theory of the self-ignition of coal particles. (Russian. English and Ukrainian summaries)
Zeitouni, Ofer *see* **Comets, Francis, 2005i:60202**

Items with secondary classifications in 60K40

Baldassarri, Andrea *see* **Desolneux, Agnès et al., 2005m:82064**
Caputo, Pietro (*with* Martinelli, Fabio) Relaxation time of anisotropic simple exclusion processes and quantum Heisenberg models. (English summary) **2005b:82009**
Desolneux, Agnès (*with* Sapoval, Bernard; Baldassarri, Andrea) Self-organized percolation power laws with and without fractal geometry in the etching of random solids. (English summary) **2005m:82064**
Fontes, Luiz R. G. (*with* Vachkovskaia, Marina; Yambartsev, A. A.) Entropic repulsion on a rarefied wall. (English summary) **2005a:60021**
Fournier, Nicolas (*with* Roynette, Bernard; Tanré, Etienne) On long time behavior of some coagulation processes. (English summary) **2005e:60116**
Herrmann, Samuel (*with* Imkeller, Peter; Pavlyukevich, Ilya) Two mathematical approaches to stochastic resonance. (English summary) **2005k:82075**
Imkeller, Peter *see* **Herrmann, Samuel et al., 2005k:82075**
Katsoulakis, M. A. (*with* Majda, Andrew J.; Sopasakis, A.) Multiscale couplings in prototype hybrid deterministic/stochastic systems. I. Deterministic closures. (English summary) **2005m:76144**
Khaniev, Tahir A. On the additive functional of a semi-Markovian random walk with two reflecting barriers. (English summary) **2005d:60141**
Kim, Bong Jin An integral equation for the operator valued function space integral. (English summary) **2005a:28026**
Kupferman, Raz (*with* Stuart, Andrew M.) Fitting SDE models to nonlinear Kac-Zwanzig heat bath models. (English summary) **2005h:82046**
Majda, Andrew J. *see* **Katsoulakis, M. A. et al., 2005m:76144**
Martinelli, Fabio *see* **Caputo, Pietro, 2005b:82009**
Meerschaert, Mark M. (*with* Scheffler, Hans-Peter) Limit theorems for continuous-time random walks with infinite mean waiting times. (English summary) **2005f:60105**
Michel, Julien A point process approach to filtered processes. (English summary) **2005g:60080**
Pavlyukevich, Ilya *see* **Herrmann, Samuel et al., 2005k:82075**
Roynette, Bernard *see* **Fournier, Nicolas et al., 2005e:60116**
Sapoval, Bernard *see* **Desolneux, Agnès et al., 2005m:82064**
Scheffler, Hans-Peter *see* **Meerschaert, Mark M., 2005f:60105**
Situ, Rong On solutions of backward stochastic differential equations with jumps and stochastic control. (English summary) **2005i:60113**
Sopasakis, A. *see* **Katsoulakis, M. A. et al., 2005m:76144**
Stadje, Wolfgang (*with* Zacks, Shelemyahu) Telegraph processes with random velocities. (English summary) **2005g:60116**
Stuart, Andrew M. *see* **Kupferman, Raz, 2005h:82046**
Tanré, Etienne *see* **Fournier, Nicolas et al., 2005e:60116**
Vachkovskaia, Marina *see* **Fontes, Luiz R. G. et al., 2005a:60021**
Yambartsev, A. A. *see* **Fontes, Luiz R. G. et al., 2005a:60021**
Zacks, Shelemyahu Generalized integrated telegraph processes and the distribution of related stopping times. (English summary) **2005b:60229**
— *see also* **Stadje, Wolfgang, 2005g:60116**

60K99 None of the above, but in this section

Barbour, A. D. (*with* Utev, Sergei) Approximating the Reed-Frost epidemic process. (English summary) **2005h:60315**
Feng, Guang Bo (*with* Ma, Chao Qun; Hou, Zhen Ting; Tang, You Rong) Brown birth and death processes and their applications to a model of stock price. (Chinese. English and Chinese summaries) **2005m:60245**
Hou, Zhen Ting *see* **Feng, Guang Bo et al., 2005m:60245**
Leorato, S. (*with* Orsingher, Enzo) Bose-Einstein-type statistics, order statistics and planar random motions with three directions. (English summary) **2005g:60171**
Ma, Chao Qun *see* **Feng, Guang Bo et al., 2005m:60245**
Orsingher, Enzo (*with* Sommella, A. M.) A cyclic random motion in $\mathbb{R}^3$ with four directions and finite velocity. (English summary) **2005g:60172**
— *see also* **Leorato, S., 2005g:60171**
Sommella, A. M. *see* **Orsingher, Enzo, 2005g:60172**
Tang, You Rong *see* **Feng, Guang Bo et al., 2005m:60245**
Utev, Sergei *see* **Barbour, A. D., 2005h:60315**

Items with secondary classifications in 60K99

Agarwal, Ravi P. (*with* Dshalalow, Jewgeni H.; O'Regan, Donal) Generalized modulated random measures and their potentials. (English summary) **2005b:60128**
Chen, Robert W. (*with* Shepp, Larry A.; Zame, Alan) A bold strategy is not always optimal in the presence of inflation. (English summary) **2005a:60059**
DeBlassie, Richard Dante Iterated Brownian motion in an open set. (English summary) **2005f:60172**
Dshalalow, Jewgeni H. *see* **Agarwal, Ravi P. et al., 2005b:60128**
Ghorbel, M. (*with* Huillet, Thierry) Fragment size distributions in random fragmentations with cutoff. (English summary) **2005i:62041**
Huillet, Thierry (*with* Martínez, Servet A.) Sampling from finite random partitions. (English summary) **2005a:60017**
— *see also* **Ghorbel, M., 2005i:62041**
Il′inskiĭ, A. I. A probabilistic approach to q-polynomial coefficients, Euler and Stirling numbers. I. (English summary) **2005h:05019**
Kolesnik, A. D. Cyclic planar random evolution with four directions. (English summary) **2005m:60162**
Martínez, Servet A. *see* **Huillet, Thierry, 2005a:60017**
O'Regan, Donal *see* **Agarwal, Ravi P. et al., 2005b:60128**
Shepp, Larry A. *see* **Chen, Robert W. et al., 2005a:60059**
Tortorella, Michael Numerical solutions of renewal-type integral equations. (English summary) **2005m:65315**
Zame, Alan *see* **Chen, Robert W. et al., 2005a:60059**

62–XX Statistics

62–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Cook, Ian *see* **Upton, Graham, 2005j:62001**
Dodge, Yadolah ★ Statistique. (French) [Statistics] **2005h:62001**
— *see also* **Dictionary: Statistical terms, Oxford, 2005d:62001**
Upton, Graham (*with* Cook, Ian) ★ A dictionary of statistics. **2005j:62001**

Items listed otherwise than by author

Dictionary:
Statistical terms, Oxford ★ The Oxford dictionary of statistical terms. **2005d:62001**

Items listed otherwise than by author

Index:
Adv. in Appl. Probab. Applied probability. Complete author and subject index: 2001–2003.
J. Appl. Probab. Applied probability. Complete author and subject index: 2001–2003.

62–01 Instructional exposition (textbooks, tutorial papers, etc.)

Ahsanullah, Mohammad (*with* Nevzorov, V. B.) ★ Order statistics: examples and exercises. **2005m:62001**
Aitkin, Murray (*with* Francis, Brian; Hinde, John) ★ Statistical modelling in GLIM 4.
Baddeley, Adrian (*with* Jensen, Eva B. Vedel) ★ Stereology for statisticians. **2005g:62001**
Baglivo, Jenny A. ★ *Mathematica* laboratories for mathematical statistics. **2005h:62002**
Beirlant, Jan (*with* Goegebeur, Yuri; Teugels, Józef L.; Segers, Johan) ★ Statistics of extremes. **2005j:62002**
Berg, Bernd A. ★ Markov chain Monte Carlo simulations and their statistical analysis.
Casella, George *see* **Robert, Christian P., 2005d:62006**
Chakraborti, Subhabrata *see* **Gibbons, Jean Dickinson, 2005a:62003**
Chen, Yi Xin² (*with* Li, Jia³; Wang, James Z.) ★ Machine learning and statistical modeling approaches to image retrieval. **2005d:62002**
Cho, Hokwon A. *see* **Golberg, M. A., 2005d:62004**
Desu, M. M. (*with* Raghavarao, D.) ★ Nonparametric statistical methods for complete and censored data. **2005d:62003**
(De Waal, Daniel) *see* **Beirlant, Jan et al., 2005j:62002**
Dobson, Annette J. ★ An introduction to generalized linear models. **2005a:62001**
Duin, R. P. W. *see* **van der Heijden, F. et al., 2005h:62004**
(Ferro, Chris) *see* **Beirlant, Jan et al., 2005j:62002**
Fitzmaurice, Garrett M. (*with* Laird, Nan M.; Ware, James H.) ★ Applied longitudinal analysis. **2005a:62002**
Francis, Brian *see* **Aitkin, Murray et al.**
Gibbons, Jean Dickinson (*with* Chakraborti, Subhabrata) ★ Nonparametric statistical inference. **2005a:62003**
Givens, Geof H. (*with* Hoeting, Jennifer A.) ★ Computational statistics. **2005h:62003**
Goegebeur, Yuri *see* **Beirlant, Jan et al., 2005j:62002**
Golberg, M. A. (*with* Cho, Hokwon A.) ★ Introduction to regression analysis. **2005d:62004**
Good, Phillip I. ★ Permutation, parametric and bootstrap tests of hypotheses. **2005f:62001**
— ★ Introduction to statistics through resampling methods and R/S-PLUS®.
Gotway, Carol A. *see* **Schabenberger, Oliver, 2005k:62001**
Gregory, P. C. ★ Bayesian logical data analysis for the physical sciences.
Hall, Alastair R. ★ Generalized method of moments. **2005m:62002**
Härdle, Wolfgang K. (*with* Simar, Léopold) ★ Applied multivariate statistical analysis. **2005b:62001**
— (*with* Müller, Marlene; Sperlich, Stefan; Werwatz, Axel) ★ Nonparametric and semiparametric models. **2005a:62004**
Heiberger, Richard M. (*with* Holland, Burt) ★ Statistical analysis and data display. **2005b:62002**
van der Heijden, F. (*with* Duin, R. P. W.; de Ridder, D.; Tax, D. M. J.) ★ Classification, parameter estimation and state estimation. **2005h:62004**
Hinde, John *see* **Aitkin, Murray et al.**
Hoeting, Jennifer A. *see* **Givens, Geof H., 2005h:62003**
Holland, Burt *see* **Heiberger, Richard M., 2005b:62002**
Huzurbazar, Aparna V. ★ Flowgraph models for multistate time-to-event data. **2005f:62002**
(Jain, Anil K.) *see* **van der Heijden, F. et al., 2005h:62004**
Janke, Steven J. (*with* Tinsley, Frederick C.) ★ Introduction to linear models and statistical inference.
Jensen, Eva B. Vedel *see* **Baddeley, Adrian, 2005g:62001**
Kanevski, Mikhail (*with* Maignan, Michel) ★ Analysis and modelling of spatial environmental data. **2005d:62005**
Klugman, Stuart A. (*with* Panjer, Harry H.; Willmot, Gordon E.) ★ Loss models. **2005f:62003**
Laird, Nan M. *see* **Fitzmaurice, Garrett M. et al., 2005a:62002**
Larose, Daniel T. ★ Discovering knowledge in data.
Lee, Peter M. ★ Bayesian statistics. **2005a:62005**
Lejeune, Michel ★ Statistique—la théorie et ses applications. (French) [Statistics—theory and applications] **2005j:62003**
Li, Jia³ *see* **Chen, Yi Xin² et al., 2005d:62002**
Lindsey, J. K. ★ Statistical analysis of stochastic processes in time. **2005b:62003**
Maignan, Michel *see* **Kanevski, Mikhail, 2005d:62005**
Martinez, Angel R. *see* **Martinez, Wendy L.**
Martinez, Wendy L. (*with* Martinez, Angel R.) ★ Exploratory data analysis with MATLAB®.
McClure, John *see* **Wit, Ernst, 2005k:62002**
Müller, Marlene *see* **Härdle, Wolfgang K. et al., 2005a:62004**
Nevzorov, V. B. *see* **Ahsanullah, Mohammad, 2005m:62001**
Panjer, Harry H. *see* **Klugman, Stuart A. et al., 2005f:62003**
Pearson, Ronald K. ★ Mining imperfect data.
Raghavarao, D. *see* **Desu, M. M., 2005d:62003**
Rekab, Kamel (*with* Shaikh, Muzaffar) ★ Statistical design of experiments with engineering applications.
de Ridder, D. *see* **van der Heijden, F. et al., 2005h:62004**
Robert, Christian P. (*with* Casella, George) ★ Monte Carlo statistical methods. **2005d:62006**
Ruppert, David ★ Statistics and finance. **2005a:62006**
Schabenberger, Oliver (*with* Gotway, Carol A.) ★ Statistical methods for spatial data analysis. **2005k:62001**
Segers, Johan *see* **Beirlant, Jan et al., 2005j:62002**
Shaikh, Muzaffar *see* **Rekab, Kamel**
Shasha, Dennis (*with* Zhu, Yunyue) ★ High performance discovery in time series. **2005c:62001**
Simar, Léopold *see* **Härdle, Wolfgang K., 2005b:62001**
Smith, Wendell F. ★ Experimental design for formulation.
Sperlich, Stefan *see* **Härdle, Wolfgang K. et al., 2005a:62004**
Tax, D. M. J. *see* **van der Heijden, F. et al., 2005h:62004**
Teugels, Józef L. *see* **Beirlant, Jan et al., 2005j:62002**
Tinsley, Frederick C. *see* **Janke, Steven J.**
Tsybakov, A. B. ★ Introduction à l'estimation non-paramétrique. (French) [Introduction to nonparametric estimation] **2005a:62007**
Wang, James Z. *see* **Chen, Yi Xin² et al., 2005d:62002**
Ware, James H. *see* **Fitzmaurice, Garrett M. et al., 2005a:62002**
Weisberg, Sanford ★ Applied linear regression. **2005h:62005**
Werwatz, Axel *see* **Härdle, Wolfgang K. et al., 2005a:62004**
Willmot, Gordon E. *see* **Klugman, Stuart A. et al., 2005f:62003**
Winkelmann, Rainer ★ Econometric analysis of count data.
Wit, Ernst (*with* McClure, John) ★ Statistics for microarrays. **2005k:62002**
Zhu, Yunyue *see* **Shasha, Dennis, 2005c:62001**

Items with secondary classifications in 62–01

Ewens, Warren J. (*with* Grant, Gregory R.) ★ Statistical methods in bioinformatics: an introduction. **2005g:92001**
Grant, Gregory R. *see* **Ewens, Warren J., 2005g:92001**
Hernández-del-Valle, Adrián (*with* Hernández-Lerma, Onésimo) ★ Elementos de probabilidad y estadística. (Spanish) [Elements of probability and statistics] **2005e:60001**
Hernández-Lerma, Onésimo *see* **Hernández-del-Valle, Adrián, 2005e:60001**
Jammalamadaka, Sreenivasa Rao *see* **Sengupta, Debasis, 2005a:62161**
Kaipio, Jari P. (*with* Somersalo, Erkki) ★ Statistical and computational inverse problems. **2005g:65001**
Sengupta, Debasis (*with* Jammalamadaka, Sreenivasa Rao) ★ Linear models. **2005a:62161**
Somersalo, Erkki *see* **Kaipio, Jari P., 2005g:65001**

62–02 Research exposition (monographs, survey articles)

Afifi, Abdelmonem (*with* Clark, Virginia A.; May, Susanne) ★ Computer-aided multivariate analysis.
Aitchison, John (*with* Kay, Jim W.; Lauder, Ian J.) ★ Statistical concepts and applications in clinical medicine.
Bahadur, R. R. ★ R. R. Bahadur's lectures on the theory of estimation. **2005a:62008**
Baker, Frank B. (*with* Kim, Seock-Ho) ★ Item response theory. **2005c:62002**
Bazovsky, Igor ★ Reliability theory and practice. **2005g:62002**
Bucklew, James Antonio ★ Introduction to rare event simulation. **2005e:62001**
Buckley, James J. ★ Fuzzy statistics. **2005f:62004**
Carroll, Raymond J. *see* **Ruppert, David et al., 2005a:62012**
Clark, Virginia A. *see* **Afifi, Abdelmonem et al.**
Datta, Gauri Sankar (*with* Mukerjee, Rahul) ★ Probability matching priors: higher order asymptotics. **2005b:62004**
(De Boeck, Paul) *see* **Explanatory item response models, 2005f:62006**
Demidenko, E. Z. ★ Mixed models. **2005e:62002**
van Dorp, Johan René *see* **Kotz, Samuel, 2005j:62005**
(Förstner, Wolfgang) *see* **Heuel, Stephan, 2005e:62003**
Frees, Edward W. ★ Longitudinal and panel data.
Glidden, David V. *see* **Vittinghoff, Eric et al.**
Gotway, Carol A. *see* **Waller, Lance A., 2005a:62013**
Groß, Jürgen ★ A normal distribution course. **2005h:62006**
Gumbel, Emile Julius ★ Statistics of extremes.
(Gupta, Arjun K.) *see* **Handbook: Beta distribution and its applications, 2005j:62007**
Heuel, Stephan ★ Uncertain projective geometry. **2005e:62003**
Hou, Shui Hung *see* **Troutt, Marvin D. et al., 2005b:62005**
Ingster, Yu. I. (*with* Suslina, I. A.) ★ Nonparametric goodness-of-fit testing under Gaussian models. **2005k:62003**
Kariya, Takeaki (*with* Kurata, Hiroshi) ★ Generalized least squares. **2005j:62004**
Kay, Jim W. *see* **Aitchison, John et al.**
Kim, Seock-Ho *see* **Baker, Frank B., 2005c:62002**
Kokki, Esa ★ Spatial small area analyses of disease risk around sources of environmental pollution: modelling tools for a system using high resolution register data. (English summary) **2005a:62009**
Kokot, Stefan ★ The econometrics of sequential trade models. **2005a:62010**
Kotz, Samuel (*with* van Dorp, Johan René) ★ Beyond beta. **2005j:62005**
Kurata, Hiroshi *see* **Kariya, Takeaki, 2005j:62004**
Lauder, Ian J. *see* **Aitchison, John et al.**
Lee, Herbert K. H. ★ Bayesian nonparametrics via neural networks. **2005a:62011**
May, Susanne *see* **Afifi, Abdelmonem et al.**
McCulloch, Charles E. *see* **Vittinghoff, Eric et al.**
Mukerjee, Rahul *see* **Datta, Gauri Sankar, 2005b:62004**

(Nadarajah, Saralees) *see* **Handbook: Beta distribution and its applications, 2005j:62007**
Pang, Wan-Kai *see* **Troutt, Marvin D. et al., 2005b:62005**
Patan, Maciej ★ Optimal observation strategies for parameter estimation of distributed systems. (Polish summary) **2005i:62001**
Pyt'ev, Yu. P. ★ Методы математического моделирования измерительно-вычислительных систем. (Russian. Russian summary) [Methods for the mathematical modeling of measuring-computing systems] **2005i:62002**
Qiu, Peihua ★ Image processing and jump regression analysis. **2005h:62007**
Rubin, Donald B. ★ Multiple imputation for nonresponse in surveys.
Ruppert, David (*with* Wand, M. P.; Carroll, Raymond J.) ★ Semiparametric regression. **2005a:62012**
Saito, Takayuki (*with* Yadohisa, Hiroshi) ★ Data analysis of asymmetric structures. **2005j:62006**
Sen, Pranab Kumar[1] *see* **Silvapulle, Mervyn J., 2005k:62004**
Shiboski, Stephen C. *see* **Vittinghoff, Eric et al.**
Silvapulle, Mervyn J. (*with* Sen, Pranab Kumar[1]) ★ Constrained statistical inference. **2005k:62004**
(Stigler, Stephen M.) *see* **Bahadur, R. R., 2005a:62008**
Suslina, I. A. *see* **Ingster, Yu. I., 2005k:62003**
Troutt, Marvin D. (*with* Pang, Wan-Kai; Hou, Shui Hung) ★ Vertical density representation and its applications. **2005b:62005**
Vittinghoff, Eric (*with* Glidden, David V.; Shiboski, Stephen C.; McCulloch, Charles E.) ★ Regression methods in biostatistics.
Waller, Lance A. (*with* Gotway, Carol A.) ★ Applied spatial statistics for public health data. **2005a:62013**
Wand, M. P. *see* **Ruppert, David et al., 2005a:62012**
(Watanabe, Michiko) *see* **EM algorithm and related statistical models, 2005f:62005**
Weerahandi, Samaradasa ★ Generalized inference in repeated measures. **2005b:62006**
Wildi, Marc ★ Signal extraction. **2005k:62005**
(Wilson, Mark R.) *see* **Explanatory item response models, 2005f:62006**
(Wong, Wing Hung) *see* **Bahadur, R. R., 2005a:62008**
(Xu, Daming) *see* **Bahadur, R. R., 2005a:62008**
Yadohisa, Hiroshi *see* **Saito, Takayuki, 2005j:62006**
(Yamaguchi, Kazunori[2]) *see* **EM algorithm and related statistical models, 2005f:62005**

Items listed otherwise than by author

Bibliography:
Bahadur, Raghu Raj *see* **Bahadur, R. R., 2005a:62008**
Biography:
Bahadur, Raghu Raj *see* **Bahadur, R. R., 2005a:62008**
EM algorithm and related statistical models ★ The EM algorithm and related statistical models. **2005f:62005**
Explanatory item response models ★ Explanatory item response models. **2005f:62006**
Handbook:
Beta distribution and its applications ★ Handbook of beta distribution and its applications. **2005j:62007**
Lecture Notes in Computer Science *see* **Heuel, Stephan, 2005e:62003**
Lecture Notes in Economics and Mathematical Systems *see* **Kokot, Stefan, 2005a:62010** *and* **Wildi, Marc, 2005k:62005**
Lecture Notes in Statistics *see* **Datta, Gauri Sankar, 2005b:62004** *and* **Ingster, Yu. I., 2005k:62003**

Items with secondary classifications in 62–02

Chen, Yi Xin[2] (*with* Li, Jia[3]; Wang, James Z.) ★ Machine learning and statistical modeling approaches to image retrieval. **2005d:62002**
Coletti, Giulianella (*with* Scozzafava, Romano) ★ Probabilistic logic in a coherent setting. **2005b:03001**
Dedkov, V. K. ★ Обратная задача теории надежности. (Russian) [The inverse problem in reliability theory]
(Faugeras, Olivier) *see* **Hartley, Richard, 2005b:68251**
Franses, Philip Hans (*with* Paap, Richard) ★ Periodic time series models. **2005a:62196**
Galambos, Janos (*with* Simonelli, Italo) ★ Products of random variables. **2005g:60005**
Goos, Peter ★ The optimal design of blocked and split-plot experiments. **2005j:62153**
Gustafson, Paul ★ Measurement error and misclassification in statistics and epidemiology. **2005b:62146**
Hartley, Richard (*with* Zisserman, Andrew) ★ Multiple view geometry in computer vision. **2005b:68251**
Jeffrey, Richard ★ Subjective probability. **2005h:60005**
Li, Jia[3] *see* **Chen, Yi Xin[2] et al., 2005d:62002**
Neuenschwander, Daniel ★ Probabilistic and statistical methods in cryptology. **2005j:94028**
Paap, Richard *see* **Franses, Philip Hans, 2005a:62196**
Scozzafava, Romano *see* **Coletti, Giulianella, 2005b:03001**
Simonelli, Italo *see* **Galambos, Janos, 2005g:60005**
Singh, Sarjinder ★ Advanced sampling theory with applications. Vol. I, II. **2005b:62028**
Wang, James Z. *see* **Chen, Yi Xin[2] et al., 2005d:62002**
Yoshihara, Ken-ichi ★ Weakly dependent stochastic sequences and their applications. Vol. XIV. **2005h:60009**
Zisserman, Andrew *see* **Hartley, Richard, 2005b:68251**

Items listed otherwise than by author

Lecture Notes in Computer Science *see* **Neuenschwander, Daniel, 2005j:94028**
Lecture Notes in Statistics *see* **Goos, Peter, 2005j:62153**

62–03 Historical (must also be assigned at least one classification number from Section 01)

Brooks, Stephen P. Bayesian computation: a statistical revolution. (English summary) **2005e:62004**
Franses, Philip Hans Fifty years since Koyck (1954). (English summary) **2005k:62006**
Hanley, James A. "Transmuting" women into men: Galton's family data on human stature. (English summary)
Kafadar, Karen John Tukey and robustness. (English summary) **2005e:62005**
(Koyck, L. M.) *see* **Franses, Philip Hans, 2005k:62006**
Lehmann, Erich L. Optimality and symposia: some history. (*see* **2005h:62009**)
Rao, Calyampudi Radhakrishna Score test: historical review and recent developments. (English summary) **2005m:62003**
Shaffer, Juliet Popper Optimality results in multiple hypothesis testing. (English summary) **2005m:62004**
(Tukey, John W.) *see* **Kafadar, Karen, 2005e:62005**

Items with secondary classifications in 62–03

(Adke, S. R.) *see* **Biography: Adke, S. R.**
Albert, Faye Irwin Vanderhoof 1927–2000.
Anderson, Douglas R. *see* **Rovine, Michael J.**
Armatte, Michel Developments in statistical thinking and their links with mathematics. (*see* **2005b:01001**)
Bellhouse, D. R. The Reverend Thomas Bayes, FRS: a biography to celebrate the tercentenary of his birth. (English summary)
Bock, Mary Ellen Conversations with Herman Rubin. (English summary) (*see* **2005i:62005**)
Chen, Tar Timothy History of statistical thinking in medicine. (*see* **2005c:62003**)
Chernoff, Herman Some reminiscences of my friendship with Herman Rubin. (*see* **2005i:62005**)
— *see also* **Zacks, Shelemyahu**
(Dale, Andrew I.) *see* **Bellhouse, D. R.**
Dey, Aloke Obituary: Sujit Kumar Mitra.
DiCiccio, Thomas J. (*with* Thompson, Mary E.) A conversation with Donald A. S. Fraser. (English summary)
(Edwards, A. W. F.) *see* **Bellhouse, D. R.**
(van Eeden, Constance) *see* **Biography: van Eeden, Constance, (2005m:62007)**
Ericsson, Neil R. The ET interview: Professor David F. Hendry.
(Fechner, Gustav Theodor) *see* **Sheĭnin, O. B.**
(Fraser, Donald A. S.) *see* **DiCiccio, Thomas J.**
Gaudillière, Jean-Paul Beyond one-case statistics: mathematics, medicine, and the management of health and disease in the postwar era. (*see* **2005b:01001**)
(Geiringer, Hilda) *see* **Siegmund-Schultze, Reinhard**
Gerber, Hans U. In memoriam. (German)
(Govindarajulu, Z.) *see* **Nanthakumar, A.**
Grier, David Alan Table making for the relief of labour. (*see* **2005b:01002**)
(Hald, A.) *see* **Thiele: pioneer in statistics, 2005c:01026**
Hansen, Gerd Wolfgang Wetzel in memoriam. (German)
(Hendry, David Forbes) *see* **Ericsson, Neil R.**
Herkenrath, Ulrich Stochastics: the science of modelling, measuring and mastering randomness and uncertainty. **2005h:62015**
Hickman, James C. E. J. Moorhead (1910–2004).
Hoaglin, David C. John W. Tukey and data analysis. (English summary) **2005d:62009**
(Huber-Carol, Catherine) *see* **Biography: Huber-Carol, Catherine, (2005d:62008)**
Klep, Paul M. M. *see* **Stamhuis, Ida H.**
(Lauritzen, Steffen L.) *see* **Thiele: pioneer in statistics, 2005c:01026**
Levitin, Gregory (*with* Lisnianski, Anatoly; Ushakov, Igor) Reliability of multi-state systems: a historical overview. **2005e:62139**
(Lindley, D. V.) *see* **Bellhouse, D. R.**
Lisnianski, Anatoly *see* **Levitin, Gregory et al., 2005e:62139**
(Markov, Andrei Andreevich) *see* **Sheĭnin, O. B., 2005m:01026**
(von Mises, Richard) *see* **Siegmund-Schultze, Reinhard**
(Mitra, Sujit Kumar) *see* **Dey, Aloke**
(Moorhead, E. J.) *see* **Hickman, James C.**
Nanthakumar, A. (*with* Srinivasan, Cidambi) Biography of Professor Z. Govindarajulu [Special issue honoring Z. Govindarajulu on his 70th birthday].
(Panchapakesan, S.) *see* **Biography: Panchapakesan, Subrahmanian, (2005h:62008)**
(Pearson, Karl) *see* **Porter, Theodore M., 2005c:01025**
Porter, Theodore M. ★ Karl Pearson. **2005c:01025**
Rao, Calyampudi Radhakrishna Has statistics a future? If so, in what form? (English summary) **2005k:62007**
Rovine, Michael J. (*with* Anderson, Douglas R.) Peirce and Bowditch: an American contribution to correlation and regression. (English summary)
(Rubin, Herman) *see* **Chernoff, Herman, (2005i:62005)** *and* **Bock, Mary Ellen, (2005i:62005)**
Sheĭnin, O. B. Fechner as a statistician. (English summary)
— Markov and life insurance. (English summary) **2005m:01026**
Siegmund-Schultze, Reinhard A non-conformist longing for unity in the fractures of modernity: towards a scientific biography of Richard von Mises (1883–1953). (English summary)
Srinivasan, Cidambi *see* **Nanthakumar, A.**
Stamhuis, Ida H. (*with* Klep, Paul M. M.) The stubbornness of various ways of knowledge was not typically Dutch; the statistical mind in a pre-statistical era.
(Stigler, Stephen M.) *see* **Bellhouse, D. R.**
(Straub, Erwin) *see* **Gerber, Hans U.**
(Thiele, T. N.) *see* **Thiele: pioneer in statistics, 2005c:01026**
Thompson, Mary E. *see* **DiCiccio, Thomas J.**
(Tukey, John W.) *see* **Hoaglin, David C., 2005d:62009**
Ushakov, Igor *see* **Levitin, Gregory et al., 2005e:62139**
(Vanderhoof, Irwin) *see* **Albert, Faye**
(Wetzel, Wolfgang) *see* **Hansen, Gerd**
White, Halbert ★ New perspectives in econometric theory.
(Yanagawa, Takashi) *see* **Bibliography: Yanagawa, Takashi**
Zacks, Shelemyahu Herman Chernoff: an appreciation.

Items listed otherwise than by author

Bibliography:
Chernoff, Herman *see* **Zacks, Shelemyahu**
Fechner, Gustav Theodor *see* **Sheĭnin, O. B.**
Hendry, David Forbes *see* **Ericsson, Neil R.**
Huber-Carol, Catherine Catherine Huber-Carol: career and accomplishments. (*see* **2005d:62008**)
Panchapakesan, Subrahmanian S. Panchapakesan—career and accomplishments. (*see* **2005h:62008**)
van Eeden, Constance Biography. (*see* **2005m:62007**)
Yanagawa, Takashi Professor Takashi Yanagawa.

Biography:
Adke, S. R. Professor Adke: a brief biographical sketch.
Chernoff, Herman *see* **Zacks, Shelemyahu**
Fechner, Gustav Theodor *see* **Sheĭnin, O. B.**
Fraser, Donald Alexander Stuart *see* **DiCiccio, Thomas J.**
Hendry, David Forbes *see* **Ericsson, Neil R.**
Huber-Carol, Catherine Catherine Huber-Carol: career and accomplishments. (*see* **2005d:62008**)
Panchapakesan, Subrahmanian S. Panchapakesan—career and accomplishments. (*see* **2005h:62008**)
Rubin, Herman *see* **Chernoff, Herman**, (**2005i:62005**) *and* **Bock, Mary Ellen**, (**2005i:62005**)
van Eeden, Constance Biography. (*see* **2005m:62007**)
von Mises, Richard *see* **Siegmund-Schultze, Reinhard**
Yanagawa, Takashi Professor Takashi Yanagawa.

Birthday:
Govindarajulu, Zakkula *see* **Nanthakumar, A.**

Obituary:
Mitra, Sujit Kumar *see* **Dey, Aloke**
Moorhead, E. J. *see* **Hickman, James C.**
Straub, Erwin *see* **Gerber, Hans U.**
Vanderhoof, Irwin T. *see* **Albert, Faye**
Wetzel, Wolfgang *see* **Hansen, Gerd**

Thiele: pioneer in statistics ★ Thiele: pioneer in statistics. **2005c:01026**

62–04 Explicit machine computation and programs (not the theory of computation or programming)

Arslan, Olcay On the computation and finite sample behavior of the constrained M-estimates for multivariate location and scatter. (English summary)
Asano, Chooichiro *see* **Takeuchi, Akinobu et al.**, (**2005a:62017**)
Boyens, Claus (*with* Günther, Oliver; Lenz, Hans-Joachim) Statistical databases. (*see* **2005g:62004**)
Briggs, Derek *see* **Tuerlinckx, Francis et al.**, (**2005f:62006**)
Dalgaard, Peter *see* **Tirler, Günter et al.**
De Boeck, Paul *see* **Tuerlinckx, Francis et al.**, (**2005f:62006**)
Frangakis, Constantine E. (*with* Varadhan, Ravi) Systematizing the evaluation of partially controlled studies using principal stratification: from theory to practice. (English summary)
Günther, Oliver *see* **Boyens, Claus et al.**, (**2005g:62004**)
Hörmann, Wolfgang *see* **Tirler, Günter et al.**
Klinke, Sigbert Statistical user interfaces. (*see* **2005g:62004**)
Koopman, Siem Jan *see* **Zivot, Eric et al.**, (**2005c:62005**)
Lenz, Hans-Joachim *see* **Boyens, Claus et al.**, (**2005g:62004**)
Leydold, Josef *see* **Tirler, Günter et al.**
Matyja, Olaf The GradeStat program. (*see* **2005e:62008**)
Meulders, Michel *see* **Tuerlinckx, Francis et al.**, (**2005f:62006**)
Molenberghs, Geert *see* **Tuerlinckx, Francis et al.**, (**2005f:62006**)
Mori, Yuichi (*with* Watadani, Shingo; Yamamoto, Yoshiro; Tarumi, Tomoyuki; Tanaka, Yutaka[1]) Statistical software SAMMIF for sensitivity analysis in multivariate methods. (English summary) (*see* **2005b:62010**)
Nakano, Junji Parallel computing techniques. (*see* **2005g:62004**)
Otsu, Tatsuo Prolog as a model search engine for data analysis. (English summary) (*see* **2005b:62010**)
Rijmen, Frank *see* **Tuerlinckx, Francis et al.**, (**2005f:62006**)
Suenaga, Katsumasa *see* **Takeuchi, Akinobu et al.**, (**2005a:62017**)
Takeuchi, Akinobu (*with* Suenaga, Katsumasa; Yadohisa, Hiroshi; Yamaguchi, Kazunori[2]; Watanabe, Michiko; Asano, Chooichiro) Dynamic link library and electronic book for statistical quality control. (English summary) (*see* **2005a:62017**)
Tanaka, Yutaka[1] *see* **Mori, Yuichi et al.**, (**2005b:62010**)
Tarumi, Tomoyuki *see* **Mori, Yuichi et al.**, (**2005b:62010**)
Tirler, Günter (*with* Dalgaard, Peter; Hörmann, Wolfgang; Leydold, Josef) An error in the Kinderman-Ramage method and how to fix it. (English summary)
Titterington, D. Michael Statistical modeling and computation. (*see* **2005m:62005**)
Tuerlinckx, Francis (*with* Rijmen, Frank; Molenberghs, Geert; Verbeke, Geert; Briggs, Derek; Van den Noortgate, Wim; Meulders, Michel; De Boeck, Paul) Estimation and software. (*see* **2005f:62006**)
Van den Noortgate, Wim *see* **Tuerlinckx, Francis et al.**, (**2005f:62006**)
Varadhan, Ravi *see* **Frangakis, Constantine E.**
Verbeke, Geert *see* **Tuerlinckx, Francis et al.**, (**2005f:62006**)
Virius, Miroslav Object oriented computing. (*see* **2005g:62004**)
Wang, Jeffrey *see* **Zivot, Eric et al.**, (**2005c:62005**)
Watadani, Shingo *see* **Mori, Yuichi et al.**, (**2005b:62010**)
Watanabe, Michiko *see* **Takeuchi, Akinobu et al.**, (**2005a:62017**)
Yadohisa, Hiroshi *see* **Takeuchi, Akinobu et al.**, (**2005a:62017**)
Yamaguchi, Kazunori[2] *see* **Takeuchi, Akinobu et al.**, (**2005a:62017**)
Yamamoto, Yoshiro *see* **Mori, Yuichi et al.**, (**2005b:62010**)
Zivot, Eric (*with* Wang, Jeffrey; Koopman, Siem Jan) State space modelling in macroeconomics and finance using SsfPack in S + Finmetrics. (English summary) (*see* **2005c:62005**)

Items with secondary classifications in 62–04

Aitkin, Murray (*with* Francis, Brian; Hinde, John) ★ Statistical modelling in GLIM 4.
Baglivo, Jenny A. ★ *Mathematica* laboratories for mathematical statistics. **2005h:62002**
Bell, William R. On RegComponent time series models and their applications. (English summary) (*see* **2005c:62005**)
Francis, Brian *see* **Aitkin, Murray et al.**
Givens, Geof H. (*with* Hoeting, Jennifer A.) ★ Computational statistics. **2005h:62003**
Hinde, John *see* **Aitkin, Murray et al.**
Hoeting, Jennifer A. *see* **Givens, Geof H.**, **2005h:62003**
Kuhfeld, Warren F. Difference schemes via computerized searches. (English summary) **2005f:05027**
Mandal, Saumendranath *see* **Torsney, B.**, (**2005f:62009**)
Naddeo, Stefania Exact Bayesian higher posterior density interval for the correlation coefficient of a normal bivariate distribution. (English summary)
Symanzik, Jürgen Interactive and dynamic graphics. (*see* **2005g:62004**)
Torsney, B. (*with* Mandal, Saumendranath) Multiplicative algorithms for constructing optimizing distributions: further developments. (English summary) (*see* **2005f:62009**)

62–06 Proceedings, conferences, collections, etc.

Akritas, Michael G. (*with* Politis, Dimitris N.) Preface: [The International Conference on Recent Trends and Directions in Nonparametric Statistics. Part II].
(Anselin, Luc) *see* **Advances in spatial econometrics, 2005g:62003**
Anthony, Martin (*with* Boros, Endre; Hammer, Peter L.; Kogan, Alexander[1]) Editorial: Introduction to special volume of Discrete Applied Mathematics [Discrete mathematics & data mining (DM & DM)].
(Arabie, Phipps) *see* **Classification, clustering, and data mining applications, 2005i:62003**
(Baba, Yasumasa) *see* **Measurement and multivariate analysis, 2005b:62010** *and* **Recent advances in statistical research and data analysis, 2005b:62011**
(Balakrishnan, Narayanaswamy) *see* **Advances in survival analysis, 2005a:62015**; **Parametric and semiparametric models with applications to reliability, survival analysis, and quality of life, 2005d:62008** *and* **Advances in ranking and selection, multiple comparisons, and reliability, 2005h:62008**
(Banks, David Lane) *see* **Classification, clustering, and data mining applications, 2005i:62003**
(Barlow, Richard E.) *see* **Mathematical reliability: an expository perspective, 2005a:62018**
(Benjamini, Y.) *see* **Recent developments in multiple comparison procedures, 2005i:62006**
Bera, Michel *see* **Saporta, Gilbert**
(Bock, Hans-Hermann) *see* **Advances in multivariate data analysis, 2005f:62007**
Boros, Endre *see* **Anthony, Martin et al.**
(Bozdogan, Hamparsum) *see* **Measurement and multivariate analysis, 2005b:62010**
(Bretz, Frank) *see* **Recent developments in multiple comparison procedures, 2005i:62006**
(Brillinger, David R.) *see* **Time series analysis and applications to geophysical systems, 2005g:62005**
Casella, George *see* **Robert, Christian P.** *and* **Genovese, Christopher R. et al.**
(Cazes, Pierre) *see* **Correspondence analysis and related methods, 2005m:62006**
(Chernoff, Herman) *see* **Srivastava, Jagdish N.**
(Chiodi, Marcello) *see* **Advances in multivariate data analysis, 2005f:62007**
(Crook, Jonathan N.) *see* **Readings in credit scoring, 2005f:62008**
(Cuadras, Carles M.) *see* **Distributions with given marginals and statistical modelling, 2005a:62016**
(Dasgupta, Anirban[1]) *see* **Festschrift: Rubin, Herman, 2005i:62005**
Dey, Dipak K. *see* **Gupta, Sudhir et al.**
(Diaconis, Persi) *see* **Stein's method: expository lectures and applications, 2005i:62008**
(Di Bucchianico, Alessandro) *see* **mODa 7—Advances in model-oriented design and analysis, 2005f:62009**
(Doudin, Pierre-André) *see* **Correspondence analysis and related methods, 2005m:62006**
(Edelman, David B.) *see* **Readings in credit scoring, 2005f:62008**
(van Eeden, Constance) *see* **Mathematical statistics and applications: Festschrift for Constance van Eeden, 2005m:62007**
(Erickson, Gary J.) *see* **Bayesian inference and maximum entropy methods in science and engineering, 2005c:62004**
(Fang, Ji-Qian) *see* **Advanced medical statistics, 2005c:62003**
(Florax, Raymond J. G. M.) *see* **Advances in spatial econometrics, 2005g:62003**
(Fortiana, Josep) *see* **Distributions with given marginals and statistical modelling, 2005a:62016**
(Froda, Sorana) *see* **Mathematical statistics and applications: Festschrift for Constance van Eeden, 2005m:62007**
(Gaul, Wolfgang) *see* **Classification, clustering, and data mining applications, 2005i:62003**
van de Geer, Sara A. (*with* van Houwelingen, Hans C.) High-dimensional data: $p \gg n$ in mathematical statistics and bio-medical applications.
(Gelman, Andrew) *see* **Applied Bayesian modeling and causal inference from incomplete-data perspectives, 2005m:62005**
Genovese, Christopher R. (*with* Wasserman, Larry; Casella, George) Introduction to the special section on astrostatistics.
(Gentle, James E.) *see* **Handbook of computational statistics, 2005g:62004**
(Gil, María Angeles) *see* **Soft methodology and random information systems, 2005i:62007**
Gilli, Manfred *see* **Winker, Peter**
(Green, Peter J.) *see* **Highly structured stochastic systems, 2005b:62009**
(Grzegorzewski, Przemysław) *see* **Soft methodology and random information systems, 2005i:62007**
(Gulati, Chandra) *see* **Advances in statistics, combinatorics and related areas, 2005a:62014**
Gupta, Ramesh C. Preface [Special issue on characterization of probability distributions].
Gupta, Sudhir (*with* Dey, Dipak K.; Meeden, Glen; Mukerjee, Rahul; Polansky, Alan) Preface [IISA 2002 Conference special issue].
(Hall, William J.) *see* **Crossing boundaries: statistical essays in honor of Jack Hall, 2005i:62004**

Ham, John C. (*with* LaLonde, Robert J.) Editorial: Special issue on experimental and non-experimental evaluation of economic policy and models.
Hammer, Peter L. *see* **Anthony, Martin et al.**
(Härdle, Wolfgang K.) *see* **Handbook of computational statistics, 2005g:62004**
Harrington, David P. *see* **Lagakos, Stephen W.**
(Harvey, Andrew C.) *see* **State space and unobserved component models, 2005c:62005**
(Hayter, Anthony J.) *see* **Recent advances in statistical research and data analysis, 2005b:62011**
(Heagerty, P. J.) *see* **Proceedings: Symposium in Biostatistics, 2nd Seattle, 2005j:62008**
(Hjort, Nils Lid) *see* **Highly structured stochastic systems, 2005b:62009**
Hoijtink, Herbert *see* **Klugkist, Irene**
(Holmes, Susan) *see* **Stein's method: expository lectures and applications, 2005i:62008**
(House, Leanna L.) *see* **Classification, clustering, and data mining applications, 2005i:62003**
van Houwelingen, Hans C. *see* **van de Geer, Sara A.**
(Hryniewicz, Olgierd) *see* **Soft methodology and random information systems, 2005i:62007**
(Hubert, Mia) *see* **Theory and applications of recent robust methods, 2005c:62006**
Ishii, Hiroaki[1] (*with* Vlach, Milan; Watada, Junzo) Foreword to special section [The Czech-Japan Seminar on Data Analysis and Decision Making under Uncertainty].
(Kanefuji, Koji) *see* **Measurement and multivariate analysis, 2005b:62010** *and* **Recent advances in statistical research and data analysis, 2005b:62011**
(Kannan, Nandini) *see* **Advances in ranking and selection, multiple comparisons, and reliability, 2005h:62008**
Klugkist, Irene (*with* Hoijtink, Herbert) Editorial introduction: [Proceedings of the Workshop on Bayesian Model Selection].
Kogan, Alexander[1] *see* **Anthony, Martin et al.**
(Kolassa, John E.) *see* **Crossing boundaries: statistical essays in honor of Jack Hall, 2005i:62004**
(Koopman, Siem Jan) *see* **State space and unobserved component models, 2005c:62005**
(Kuriki, Satoshi) *see* **Recent advances in statistical research and data analysis, 2005b:62011**
Lagakos, Stephen W. (*with* Harrington, David P.) Introduction to the special issue dedicated to Marvin Zelen.
LaLonde, Robert J. *see* **Ham, John C.**
(Läuter, Henning) *see* **mODa 7—Advances in model-oriented design and analysis, 2005f:62009**
(Lawry, Jonathan) *see* **Soft methodology and random information systems, 2005i:62007**
(Léger, Christian) *see* **Mathematical statistics and applications: Festschrift for Constance van Eeden, 2005m:62007**
(Lehmann, Erich L.) *see* **Symposium: Optimality, 1st Erich L. Lehmann, 2005h:62009**
(Lele, Subhash R.) *see* **Nature of scientific evidence, 2005d:62007**
(Lenz, Hans-Joachim) *see* **Frontiers in statistical quality control 7, 2005a:62017**
(Limnios, Nikolaos) *see* **Parametric and semiparametric models with applications to reliability, survival analysis, and quality of life, 2005d:62008**
(Lin, Danyu Y.) *see* **Proceedings: Symposium in Biostatistics, 2nd Seattle, 2005j:62008**
(Lin, Yan-Xia) *see* **Advances in statistics, combinatorics and related areas, 2005a:62014**
(López-Díaz, Miguel) *see* **Soft methodology and random information systems, 2005i:62007**
(Lu, Ying) *see* **Advanced medical statistics, 2005c:62003**
(Mazzuchi, Thomas A.) *see* **Mathematical reliability: an expository perspective, 2005a:62018**
(McMorris, Frederick R.) *see* **Classification, clustering, and data mining applications, 2005i:62003**
Meeden, Glen *see* **Gupta, Sudhir et al.**
(Meng, Xiao-Li) *see* **Applied Bayesian modeling and causal inference from incomplete-data perspectives, 2005m:62005**
(Mesbah, Mounir) *see* **Parametric and semiparametric models with applications to reliability, survival analysis, and quality of life, 2005d:62008**
(Mineo, Antonino) *see* **Advances in multivariate data analysis, 2005f:62007**
(Mishra, Satya) *see* **Advances in statistics, combinatorics and related areas, 2005a:62014**
(Moore, Marc) *see* **Mathematical statistics and applications: Festschrift for Constance van Eeden, 2005m:62007**
(Moreau, Jean) *see* **Correspondence analysis and related methods, 2005m:62006**
(Mori, Yuichi) *see* **Handbook of computational statistics, 2005g:62004**
Mosler, Karl Introduction: The geometry of data.
Mukerjee, Rahul *see* **Gupta, Sudhir et al.**
(Nagaraja, H. N.) *see* **Advances in ranking and selection, multiple comparisons, and reliability, 2005h:62008**
(Nikulin, Mikhail S.) *see* **Parametric and semiparametric models with applications to reliability, survival analysis, and quality of life, 2005d:62008**
(Nishisato, Shizuhiko) *see* **Measurement and multivariate analysis, 2005b:62010**
(Oakes, David) *see* **Crossing boundaries: statistical essays in honor of Jack Hall, 2005i:62004**
(Opitz, Otto) *see* **Exploratory data analysis in empirical research, 2005b:62008**
(Pérez-Abreu, Victor) *see* **Symposium: Optimality, 1st Erich L. Lehmann, 2005h:62009**
(Pison, Greet) *see* **Theory and applications of recent robust methods, 2005c:62006**
Polansky, Alan *see* **Gupta, Sudhir et al.**
Polasek, Wolfgang (*with* Ruggeri, Fabrizio) Editorial [Innovative statistical models in the European business and industry].
Politis, Dimitris N. *see* **Akritas, Michael G.**
(Rao, Calyampudi Radhakrishna) *see* **Advances in survival analysis, 2005a:62015**
(Rayner, J. C. W.) *see* **Advances in statistics, combinatorics and related areas, 2005a:62014**
(Rey, Sergio J.) *see* **Advances in spatial econometrics, 2005g:62003**
(Richardson, Sylvia) *see* **Highly structured stochastic systems, 2005b:62009**
Robert, Christian P. (*with* Casella, George) Introduction to the special issue: Bayes then and now.
(Robinson, Enders Anthony) *see* **Time series analysis and applications to geophysical systems, 2005g:62005**
(Robinson, Peter M.) *see* **Time series with long memory, 2005b:62012**
(Rodríguez Lallena, José Antonio) *see* **Distributions with given marginals and statistical modelling, 2005a:62016**
(Rojo, Javier) *see* **Symposium: Optimality, 1st Erich L. Lehmann, 2005h:62009**
(Rubin, Donald B.) *see* **Applied Bayesian modeling and causal inference from incomplete-data perspectives, 2005m:62005**
(Rubin, Herman) *see* **Festschrift: Rubin, Herman, 2005i:62005**
Ruggeri, Fabrizio *see* **Polasek, Wolfgang**
Saporta, Gilbert (*with* Bera, Michel) Editorial [Special issue on statistical learning].
(Sarkar, Sanat Kumar) *see* **Recent developments in multiple comparison procedures, 2005i:62006**
(Schoenberg, Frederic Paik) *see* **Time series analysis and applications to geophysical systems, 2005g:62005**
(Schwaiger, Manfred) *see* **Exploratory data analysis in empirical research, 2005b:62008**
(Shephard, Neil) *see* **State space and unobserved component models, 2005c:62005**
(Singpurwalla, Nozer D.) *see* **Mathematical reliability: an expository perspective, 2005a:62018**
(Soyer, Refik) *see* **Mathematical reliability: an expository perspective, 2005a:62018**
Srivastava, Jagdish N. Foreword [Herman Chernoff: eightieth birthday felicitation volume].
(Struyf, Anja) *see* **Theory and applications of recent robust methods, 2005c:62006**
(Swinburne, Richard) *see* **Bayes's theorem, 2005b:62007**
Tamhane, Ajit C. (*with* Westfall, Peter H.) Preface [Special issue on multiple comparisons].
(Taper, Mark L.) *see* **Nature of scientific evidence, 2005d:62007**
(Thomas, Lyn C.) *see* **Readings in credit scoring, 2005f:62008**
(Tribus, Myron) *see* **Bayesian inference and maximum entropy methods in science and engineering, 2005c:62004**
(Van Aelst, Stefan) *see* **Theory and applications of recent robust methods, 2005c:62006**
Vlach, Milan *see* **Ishii, Hiroaki[1] et al.**
Wasserman, Larry *see* **Genovese, Christopher R. et al.**
Watada, Junzo *see* **Ishii, Hiroaki[1] et al.**
Westfall, Peter H. *see* **Tamhane, Ajit C.**
White, Halbert ★ New perspectives in econometric theory.
(Wilrich, Peter-Theodor) *see* **Frontiers in statistical quality control 7, 2005a:62017**
Winker, Peter (*with* Gilli, Manfred) Applications of optimization heuristics to estimation and modelling problems. (English summary)
(Wynn, Henry P.) *see* **mODa 7—Advances in model-oriented design and analysis, 2005f:62009**
(Zelen, Marvin) *see* **Lagakos, Stephen W.**
(Zhai, Yuxiang) *see* **Bayesian inference and maximum entropy methods in science and engineering, 2005c:62004**

Items listed otherwise than by author

Advanced medical statistics ★ Advanced medical statistics. **2005c:62003**
Advances in multivariate data analysis ★ Advances in multivariate data analysis. **2005f:62007**
Advances in ranking and selection, multiple comparisons, and reliability ★ Advances in ranking and selection, multiple comparisons, and reliability. **2005h:62008**
Advances in spatial econometrics ★ Advances in spatial econometrics. **2005g:62003**
Advances in statistics, combinatorics and related areas ★ Advances in statistics, combinatorics and related areas. **2005a:62014**
Advances in survival analysis ★ Advances in survival analysis. **2005a:62015**
Amsterdam ★ State space and unobserved component models. **2005c:62005**
Analyse des correspondances et les techniques connexes ★ L'analyse des correspondances et les techniques connexes. (French) [Correspondence analysis and related methods] **2005m:62006**
Antwerp ★ Theory and applications of recent robust methods. **2005c:62006**
Applied Bayesian modeling and causal inference from incomplete-data perspectives ★ Applied Bayesian modeling and causal inference from incomplete-data perspectives. **2005m:62005**
Banff, AB ★ Measurement and multivariate analysis. **2005b:62010**
Barcelona ★ Distributions with given marginals and statistical modelling. **2005a:62016**
Bayes's theorem ★ Bayes's theorem. **2005b:62007**
Bayesian inference and maximum entropy methods in science and engineering ★ Bayesian inference and maximum entropy methods in science and engineering. **2005c:62004**
Bibliography:
Hall, William J. ★ Crossing boundaries: statistical essays in honor of Jack Hall. **2005i:62004**
Rubin, Herman ★ A festschrift for Herman Rubin. **2005i:62005**
Chicago, IL ★ Classification, clustering, and data mining applications. **2005i:62003**
Classification, clustering, and data mining applications ★ Classification, clustering, and data mining applications. **2005i:62003**
Correspondence analysis and related methods ★ L'analyse des correspondances et les techniques connexes. (French) [Correspondence analysis and related methods] **2005m:62006**
Crossing boundaries: statistical essays in honor of Jack Hall ★ Crossing boundaries: statistical essays in honor of Jack Hall. **2005i:62004**
Distributions with given marginals and statistical modelling ★ Distributions with given marginals and statistical modelling. **2005a:62016**
Exploratory data analysis in empirical research ★ Exploratory data analysis in empirical research. **2005b:62008**
Festschrift:
Rubin, Herman ★ A festschrift for Herman Rubin. **2005i:62005**
Frontiers in statistical quality control 7 ★ Frontiers in statistical quality control 7. **2005a:62017**
Guanajuato ★ The First Erich L. Lehmann Symposium—Optimality. **2005h:62009**
Handbook of computational statistics ★ Handbook of computational statistics. **2005g:62004**
Heeze ★ mODa 7—Advances in model-oriented design and analysis. **2005f:62009**
Highly structured stochastic systems ★ Highly structured stochastic systems. **2005b:62009**
Jackson Hole, WY ★ Bayesian inference and maximum entropy methods in science and engineering. **2005c:62004**
Lecture Notes in Statistics ★ Proceedings of the Second Seattle Symposium in Biostatistics **2005j:62008**
Mathematical reliability: an expository perspective ★ Mathematical reliability: an expository perspective. **2005a:62018**
Mathematical statistics and applications: Festschrift for Constance van Eeden ★ Mathematical statistics and applications: Festschrift for Constance van Eeden.

2005m:62007
Measurement and multivariate analysis ★ Measurement and multivariate analysis. 2005b:62010
Minneapolis, MN ★ Time series analysis and applications to geophysical systems. 2005g:62005
mODa 7—Advances in model-oriented design and analysis ★ mODa 7—Advances in model-oriented design and analysis. 2005f:62009
Munich ★ Exploratory data analysis in empirical research. 2005b:62008
Nature of scientific evidence ★ The nature of scientific evidence. 2005d:62007
Oviedo ★ Soft methodology and random information systems. 2005i:62007
Palermo ★ Advances in multivariate data analysis. 2005f:62007
Parametric and semiparametric models with applications to reliability, survival analysis, and quality of life ★ Parametric and semiparametric models with applications to reliability, survival analysis, and quality of life. 2005d:62008
Philadelphia, PA ★ Recent developments in multiple comparison procedures. 2005i:62006
Proceedings:
Symposium in Biostatistics, 2nd Seattle ★ Proceedings of the Second Seattle Symposium in Biostatistics. 2005j:62008
Readings in credit scoring ★ Readings in credit scoring. 2005f:62008
Recent advances in statistical research and data analysis ★ Recent advances in statistical research and data analysis. 2005b:62011
Recent developments in multiple comparison procedures ★ Recent developments in multiple comparison procedures. 2005i:62006
Seattle, WA ★ Proceedings of the Second Seattle Symposium in Biostatistics. 2005j:62008
Soft methodology and random information systems ★ Soft methodology and random information systems. 2005i:62007
Stanford, CA ★ Stein's method: expository lectures and applications. 2005i:62008
State space and unobserved component models ★ State space and unobserved component models. 2005c:62005
Stein's method: expository lectures and applications ★ Stein's method: expository lectures and applications. 2005i:62008
Symposium:
Optimality, 1st Erich L. Lehmann ★ The First Erich L. Lehmann Symposium—Optimality. 2005h:62009
Theory and applications of recent robust methods ★ Theory and applications of recent robust methods. 2005c:62006
Time series analysis and applications to geophysical systems ★ Time series analysis and applications to geophysical systems. 2005g:62005
Time series with long memory ★ Time series with long memory. 2005b:62012
Tokyo ★ Recent advances in statistical research and data analysis. 2005b:62011
Waterloo, ON ★ Frontiers in statistical quality control 7. 2005a:62017
Wollongong ★ Advances in statistics, combinatorics and related areas. 2005a:62014

Items with secondary classifications in 62–06

(Adke, S. R.) *see* **Festschrift: Adke, S. R.**
Baba, Yasumasa On the special issue "A bridge between environmental and statistical sciences". (Japanese)
Bathke, Arne (*with* Zhou, Mai[1]) Mini-conference report: non/semi-parametric models and sequential analysis.
Bauwens, Luc (*with* Lubrano, Michel; van Dijk, Herman K.) Guest editorial: Recent advances in Bayesian econometrics.
(Cox, David R.) *see* **Biometrika: one hundred years, 2005c:00021**
Dagum, Camilo Introduction [Special issue on income distribution, Lorenz curve, inequality and poverty].
Davidian, Marie (*with* Lin, Xihong; Wang, Jane-Ling) Introduction [Emerging issues in longitudinal and functional data analysis].
(De Boeck, Paul) *see* **Explanatory item response models, 2005f:62006**
van Dijk, Herman K. *see* **Bauwens, Luc et al.**
Feichtinger, Gustav (*with* Kistner, Klaus-Peter; Schneeweiß, Christoph) OR, economics and statistics—a collection of papers published on the occasion of the 75th birthday of Franz Ferschl.
(Ferschl, Franz) *see* **Feichtinger, Gustav et al.**
(Fulcher, John) *see* **Applied intelligent systems, 2005j:68004**
(Gámez, José A.) *see* **Advances in Bayesian networks**
(Gupta, Arjun K.) *see* **Handbook: Beta distribution and its applications, 2005j:62007**
Hand, David J. Preface: pattern discovery.
(Jain, Lakhmi C.) *see* **Applied intelligent systems, 2005j:68004**
Kistner, Klaus-Peter *see* **Feichtinger, Gustav et al.**
Lin, Xihong *see* **Davidian, Marie et al.**
Lubrano, Michel *see* **Bauwens, Luc et al.**
(Moral, Serafín) *see* **Advances in Bayesian networks**
(Nadarajah, Saralees) *see* **Handbook: Beta distribution and its applications, 2005j:62007**
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(Picard, Jean) *see* **Tavaré, Simon, 2005a:60006**
(Salmerón, Antonio) *see* **Advances in Bayesian networks**
Schneeweiß, Christoph *see* **Feichtinger, Gustav et al.**
Shimura, Takaaki *see* **Takahashi, Rinya**
Takahashi, Rinya (*with* Shimura, Takaaki) On the special issue "Extreme value theory". (Japanese)
Tavaré, Simon (*with* Zeitouni, Ofer) ★ Lectures on probability theory and statistics. 2005a:60006
(Titterington, D. Michael) *see* **Biometrika: one hundred years, 2005c:00021**
Wang, Jane-Ling *see* **Davidian, Marie et al.**
(Watanabe, Michiko) *see* **EM algorithm and related statistical models, 2005f:62005**
(Wilson, Mark R.) *see* **Explanatory item response models, 2005f:62006**
(Yamaguchi, Kazunori[2]) *see* **EM algorithm and related statistical models, 2005f:62005**
Zeitouni, Ofer *see* **Tavaré, Simon, 2005a:60006**
Zhou, Mai[1] *see* **Bathke, Arne**

Items listed otherwise than by author

Advances in Bayesian networks ★ Advances in Bayesian networks.
Applied intelligent systems ★ Applied intelligent systems. 2005j:68004
Biometrika: one hundred years ★ Biometrika: one hundred years. 2005c:00021
Cuenca ★ Advances in Bayesian networks.
EM algorithm and related statistical models ★ The EM algorithm and related statistical models. 2005f:62005
Explanatory item response models ★ Explanatory item response models. 2005f:62006
Festschrift:
Adke, S. R. Editor's note [Special issue in honour of Professor S. R. Adke on his seventieth birthday].
Handbook:
Beta distribution and its applications ★ Handbook of beta distribution and its applications. 2005j:62007
Lecture Notes in Mathematics *see* **Tavaré, Simon, 2005a:60006**
Lectures on probability theory and statistics *see* **Tavaré, Simon, 2005a:60006**
Monte Carlo and quasi-Monte Carlo methods 2002 ★ Monte Carlo and quasi-Monte Carlo methods 2002. 2005b:65002
Saint-Flour *see* **Tavaré, Simon, 2005a:60006**
Singapore ★ Monte Carlo and quasi-Monte Carlo methods 2002. 2005b:65002
Studies in information science, No. 7 ★ Исследования по информатике. Вып. 7. (Russian) [Studies in information science. No. 7] 2005i:00009

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Aakvik, Arild (*with* Heckman, James J.; Vytlacil, Edward J.) Estimating treatment effects for discrete outcomes when responses to treatment vary: an application to Norwegian vocational rehabilitation programs. (English summary)
Acuña, Edgar (*with* Rodriguez, Caroline) The treatment of missing values and its effect on classifier accuracy. (English summary) (*see* **2005i:62003**)
Adnan, Robiah *see* **Schwertman, Neil C. et al.**
Agati, Patrizia Combining information from several experts: Selecting and stopping rules in sequential consulting. (English summary) (*see* **2005f:62007**)
Agresti, Alan (*with* Caffo, Brian S.; Ohman-Strickland, Pamela) Examples in which misspecification of a random effects distribution reduces efficiency, and possible remedies. (English summary)
Almeida, M. T. (*with* Carvalho, F. D.) Exact disclosure prevention in two-dimensional statistical tables. (English summary)
Arboretti Giancristofaro, R. (*with* Salmaso, L.) Model performance analysis and model validation in logistic regression. (English and Italian summaries)
Arcos Cebrián, Antonio *see* **Rueda García, María del Mar et al.**
Arnoux, Mireille (*with* Lechevallier, Yves; Tanasa, Doru; Trousse, Brigitte; Verde, Rosanna) Automatic clustering for the web usage mining. (English summary)
Arrowsmith, D. K. Dynamics and statistics—a new interface for modelling. (English summary)
Asano, Chooichiro *see* **Yamaguchi, Kazunori[2] et al., (2005a:62017)**
Bacelar-Nicolau, Helena *see* **Silva, A. L. et al., 2005i:62009**
de Baets, Bernard (*with* De Meyer, Hans) From the comparison of ordered lists to the construction of copulas. (*see* **2005i:62007**)
Balbi, Simona (*with* Di Meglio, Emilio) Contributions of textual data analysis to text retrieval. (English summary) (*see* **2005i:62003**)
Banks, David Lane *see* **House, Leanna L., (2005i:62003)**
Berger, Vance W. Valid adjustment of randomized comparisons for binary covariates. (English summary)
Bijwaard, Govert E. (*with* Ridder, Geert) Correcting for selective compliance in a re-employment bonus experiment. (English summary) **2005m:62008**
Billard, Lynne Dependencies in bivariate interval-valued symbolic data. (English summary) (*see* **2005i:62003**)
Biswas, Atanu (*with* Dewanji, Anup) Inference for a RPW-type clinical trial with repeated monitoring for the treatment of rheumatoid arthritis. (English summary)
Bologna, Salvatore (*with* Lovison, Gianfranco) Second-order interaction in a trivariate generalized gamma distribution. (English summary) (*see* **2005f:62007**)
Boscardin, W. John (*with* Zhang, Xiao[2]) Modeling the covariance and correlation matrix of repeated measures. (*see* **2005m:62005**)
Brain, Phil *see* **O'Neill, Michael E. et al.**
Branković, Ljiljana (*with* Širáň, Jozef) 2-compromise usability in 1-dimensional statistical databases. (English summary) **2005a:62019**
Bremner, Alexandra P. (*with* Taplin, Ross H.) Performance of localized regression tree splitting criteria on data with discontinuities. (English summary)
Brito, Paula (*with* Polaillon, Géraldine) Structuring probabilistic data by Galois lattices. (English and French summaries)
Bruni, Renato Discrete models for data imputation. (English summary)
(Buja, Andreas) *see* **Gelman, Andrew**
Butler, Ruth C. *see* **O'Neill, Michael E. et al.**
Caffo, Brian S. *see* **Agresti, Alan et al.**
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de Carvalho, Francisco de A. T. *see* **Csernel, M., (2005b:62008)** *and* **Queiroz, Sérgio R. de M., (2005i:62003)**
Castillo, Enrique F. (*with* Hadi, Ali S.; Conejo, Antonio; Fernández-Canteli, Alfonso) A general method for local sensitivity analysis with application to regression models and other optimization problems. (English summary)
Chan, Jennifer S. K. *see* **Lam, Yeh et al., 2005a:62023**
Chan, Kin-Yee (*with* Loh, Wei-Yin) LOTUS: an algorithm for building accurate and comprehensible logistic regression trees. (English summary)
Chen, Shyi-Ming (*with* Lee, Chun-Te) A new data mining method based on relational graphs of products. (English summary)
Cheng, Russell C. H. (*with* Jones, Owen Dafydd) Analysis of distributions in factorial experiments. (English summary) **2005j:62009**
Cheng, Yi Ming *see* **Zhao, Hai Bing, 2005e:62007**
Ciok, Alicja Asymmetry and the inverse concentration set. (*see* **2005e:62008**)

— Discretization and regularity. (*see* **2005e:62008**)
Claeskens, Gerda *see* **Hjort, Nils Lid**, **2005a:62021**
Conaway, Mark R. (*with* Dunbar, Stephanie A.; Peddada, Shyamal D.) Designs for single- or multiple-agent phase I trials. (English summary)
Conejo, Antonio *see* **Castillo, Enrique F. et al.**
Corradi, Valentina (*with* Swanson, Norman R.) A test for the distributional comparison of simulated and historical data. (English summary)
Couturier, Raphaël (*with* Gras, Régis; Guillet, Fabrice) Reducing the number of variables using implicative analysis. (English summary) (*see* **2005i:62003**)
Csernel, M. (*with* de Carvalho, Francisco de A. T.) On memory requirement with normal symbolic form. (English summary) (*see* **2005b:62008**)
D'Agostino, Ralph B., Jr. Propensity score estimation with missing data. (*see* **2005m:62005**)
Davidian, Marie *see* **Tsiatis, Anastasios A.**
De Boeck, Paul (*with* Wilson, Mark R.) A framework for item response models. (*see* **2005f:62006**)
— *see also* **Wilson, Mark R.**, (**2005f:62006**) *and* **Tuerlinckx, Francis**, (**2005f:62006**)
De Meyer, Hans *see* **de Baets, Bernard**, (**2005i:62007**)
Dewanji, Anup *see* **Biswas, Atanu**
Diday, Edwin (*with* Vrac, M.) Mixture decomposition of distributions by copulas in the symbolic data analysis framework. (English summary) **2005h:62010**
— *see also* **Mballo, Chérif**, (**2005i:62003**)
Di Meglio, Emilio *see* **Balbi, Simona**, (**2005i:62003**)
Domingo-Ferrer, Josep (*with* Torra, Vicenç) Disclosure risk assessment in statistical data protection. (English summary) **2005a:62020**
Donoho, David L. (*with* Huo, Xiaoming) BeamLab and reproducible research. (English summary)
Draney, Karen *see* **Fieuws, Steffen et al.**, (**2005f:62006**)
Draper, David (*with* Gittoes, Mark) Statistical analysis of performance indicators in UK higher education. (English summary)
Dunagan, John (*with* Vempala, Santosh S.) Optimal outlier removal in high-dimensional. (English summary) (*see* **2005j:68008**)
Dunbar, Stephanie A. *see* **Conaway, Mark R. et al.**
van Dyk, David A. *see* **Imai, Kosuke**
Egghe, L. (*with* Rousseau, R.) Comparing partial and truncated conglomerates from a concentration theoretic point of view. (English summary) **2005j:62010**
Elam, M. E. *see* **Kim, Jong-Min**
Fang, Ji-Qian *see* **Zhou, Xuyu et al.**, (**2005c:62003**)
Feiveson, Alan H. Limited-range distributions with informative dropout. (*see* **2005j:62007**)
Fernández-Canteli, Alfonso *see* **Castillo, Enrique F. et al.**
Fieuws, Steffen (*with* Spiessens, Bart; Draney, Karen) Mixture models. (*see* **2005f:62006**)
Foss, Tron *see* **Olsson, Ulf Henning et al.**
Fujino, Tomokazu (*with* Tarumi, Tomoyuki) Theory of PRAM and problems in practical use. (Japanese. English and Japanese summaries) **2005c:62007**
Fuller, Wayne A. *see* **Kim, Jae Kwang**
Gasser, Theo *see* **Gervini, Daniel**
Gelman, Andrew Exploratory data analysis for complex models. (English summary)
Gentle, James E. (*with* Härdle, Wolfgang K.; Mori, Yuichi) Computational statistics: an introduction. (*see* **2005g:62004**)
Gervini, Daniel (*with* Gasser, Theo) Self-modelling warping functions. (English summary)
Gianola, D. *see* **Rosa, G. J. M. et al.**
Gittoes, Mark *see* **Draper, David**
González Aguilera, Silvia *see* **Rueda García, Maria del Mar et al.**
Gras, Régis *see* **Couturier, Raphaël et al.**, (**2005i:62003**)
Greatbanks, Richard *see* **Wang, Ying-Ming et al.**
Guillet, Fabrice *see* **Couturier, Raphaël et al.**, (**2005i:62003**)
Gupta, Ramesh C. (*with* Wang, Bingxia) Estimation of standardized mortality ratio with missing death certificates. (English summary)
Hadi, Ali S. *see* **Castillo, Enrique F. et al.**
Hamada, Michael S. *see* **Wilson, Alyson G. et al.**, (**2005a:62018**)
Hammer, Peter L. (*with* Kogan, Alexander[1]; Simeone, Bruno; Szedmák, Sándor) Pareto-optimal patterns in logical analysis of data. (English summary) **2005e:62006**
— (*with* Liu, Yan Pei; Simeone, Bruno; Szedmák, Sándor) Saturated systems of homogeneous boxes and the logical analysis of numerical data. (English summary)
Härdle, Wolfgang K. *see* **Gentle, James E. et al.**, (**2005g:62004**)
Hayashi, Chikio Questionnaire construction, data collection and data analysis: an approach by the idea of data science. (English summary) (*see* **2005b:62010**)
Heckman, James J. *see* **Aakvik, Arild et al.**
Heitjan, Daniel F. *see* **Troxel, Andrea B. et al.**
Hirano, Keisuke (*with* Imbens, Guido W.) The propensity score with continuous treatments. (*see* **2005m:62005**)
Hjort, Nils Lid (*with* Claeskens, Gerda) Frequentist model average estimators. (English summary) **2005a:62021**
Hoaglin, David C. John W. Tukey and data analysis. (English summary) **2005d:62009**
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Hosseinzadeh Lotfi, F. *see* **Jahanshahloo, Gholamreza et al.**, **2005a:62022**
Hothorn, Torsten *see* **Meyer, David et al.**
House, Leanna L. (*with* Banks, David Lane) Cherry-picking as a robustness tool. (English summary) (*see* **2005i:62003**)
Huang, Ji Wei *see* **Li, Yun Fei et al.**
Huo, Xiaoming *see* **Donoho, David L.**
Imai, Kosuke (*with* van Dyk, David A.) Causal inference with general treatment regimes: generalizing the propensity score. (English summary)
Imbens, Guido W. *see* **Hirano, Keisuke**, (**2005m:62005**)
Jacobs. Brent C. *see* **O'Neill, Michael E. et al.**
Jahanshahloo, Gholamreza (*with* Hosseinzadeh Lotfi, F.; Shoja, N.; Tohidi, G.; Razavyan, S.) Ranking using l_1-norm in data envelopment analysis. (English summary) **2005a:62022**
Jeske, Daniel R. (*with* Liu, Regina Y.) Mining massive text data and developing tracking statistics. (English summary) (*see* **2005i:62003**)
Jiang, Wenxin (*with* Turnbull, Bruce W.) Some applications of indirect inference to longitudinal and repeated events data. (English summary) (*see* **2005j:62008**)
Jibrin, Shafiu (*with* Pressman, Irwin S.; Salibian-Barrera, Matias) A probabilistic method for detecting multivariate extreme outliers. (English summary) **2005c:62008**
Jones, Owen Dafydd *see* **Cheng, Russell C. H.**, **2005j:62009**
Kennedy, Nyongesa L. Testing for the presence of disease by pooling samples. (English summary)
— Multistage group testing procedure (group screening). (English summary)
Kharchenko, AndreĭVyacheslavovich *see* **Perevozchikova, O. L. et al.**
Kiers, Henk A. L. (*with* der Kinderen, Albert) A fast method for choosing the numbers of components in Tucker3 analysis. (English summary)
Kim, Jae Kwang (*with* Fuller, Wayne A.) Fractional hot deck imputation. (English summary)
Kim, Jong-Min (*with* Elam, M. E.) A two-stage stratified Warner's randomized response model using optimal allocation. (English summary)
der Kinderen, Albert *see* **Kiers, Henk A. L.**
Klose, Aljoscha (*with* Kruse, Rudolf) Information mining with semi-supervised learning. (*see* **2005i:62007**)
Kogan, Alexander[1] *see* **Hammer, Peter L. et al.**, **2005e:62006**
Kono, Yasunari *see* **Yamaguchi, Kazunori[2] et al.**, (**2005a:62017**)
Kowalczyk, Teresa (*with* Szczesny, Wiesław) Univariate Lilliputian model. I. (*see* **2005e:62008**)
— (*with* Pleszczyńska, Elżbieta; Szczesny, Wiesław) Univariate Lilliputian model. II. (*see* **2005e:62008**)
— *see also* **Grade models and methods for data analysis**, **2005e:62008**
Kruse, Rudolf *see* **Klose, Aljoscha**, (**2005i:62007**)
Kurths, Jürgen *see* **Thiel, Marco et al.**
Lam, Yeh (*with* Zhu, Li-Xing; Chan, Jennifer S. K.; Liu, Qun) Analysis of data from a series of events by a geometric process model. (English summary) **2005a:62023**
Lambert, Diane What use is statistics for massive data? (English summary) (*see* **2005i:62004**)
Lapointe, François-Joseph *see* **Legendre, Pierre**
Larsen, Michael D. Record linkage using finite mixture models. (English summary) (*see* **2005m:62005**)
Law, Ngayee J. *see* **Yu, Menggang et al.**
Lechevallier, Yves *see* **Arnoux, Mireille et al.**
Lee, Chun-Te *see* **Chen, Shyi-Ming**
Lee, Sik-Yum (*with* Xu, Liang) Local influence analysis of structural equation models with continuous and ordinal categorical variables. (English summary)
— *see also* **Tao, Jian et al.**
Leeb, Hannes (*with* Pötscher, Benedikt M.) Model selection and inference: facts and fiction. (English summary)
Legendre, Pierre (*with* Lapointe, François-Joseph) Assessing congruence among distance matrices: single-malt Scotch whiskies revisited. (English summary)
Leisch, Friedrich *see* **Meyer, David et al.**
Li, Chuang (*with* Plassmann, Paul E.) An efficient algorithm for the compression of time-dependent data from scientific simulations. (English summary) (*see* **2005g:65008**)
Li, Yi[8] Linear regression and linear mixed models with contaminated covariates. (English summary)
Li, Yun Fei (*with* Huang, Ji Wei; Zhu, Hong[4]) Detection of outliers from the two-parameter exponential distribution. (Chinese. English and Chinese summaries)
Liehr, Th. Data preparation in large real-world data mining projects: methods for imputing missing values. (English summary) (*see* **2005b:62008**)
Lin, Haiqun (*with* Scharfstein, Daniel O.; Rosenheck, Robert A.) Analysis of longitudinal data with irregular, outcome-dependent follow-up. (English summary)
Little, Roderick J. A. (*with* Liu, Fang[4]; Raghunathan, Trivellore E.) Statistical disclosure techniques based on multiple imputation. (*see* **2005m:62005**)
— *see also* **Peng, Yahong[2] et al.**
Liu, Fang[4] *see* **Little, Roderick J. A. et al.**, (**2005m:62005**)
Liu, Qun *see* **Lam, Yeh et al.**, **2005a:62023**
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Lovison, Gianfranco *see* **Bologna, Salvatore**, (**2005f:62007**)
Lu, Ying *see* **Zhou, Xuyu et al.**, (**2005c:62003**)
Ma, Guoguang *see* **Troxel, Andrea B. et al.**
MacKay, David B. Percept variance, subadditivity and the metric classification of similarity, and dissimilarity data. (English summary)
Mahmoud, Mahmoud A. (*with* Woodall, William H.) Phase I analysis of linear profiles with calibration applications. (English summary)
Mammen, Enno (*with* Nandi, Swagata[2]) Bootstrap and resampling. (*see* **2005g:62004**)
Manski, Charles F. Partial identification with missing data: concepts and findings. (English summary)
Marchette, David J. Network intrusion detection. (*see* **2005g:62004**)
Marron, J. S. *see* **Zhao, Xin[2] et al.**
Martz, Harry F. *see* **Wilson, Alyson G. et al.**, (**2005a:62018**)
Mathur, Nidhi *see* **Singh, Housila Prasad**
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Mendes, Beatriz Vaz de Melo (*with* Lopes, Hedibert Freitas) Data driven estimates for mixtures. (English summary)
Meyer, David (*with* Leisch, Friedrich; Hothorn, Torsten; Hornik, Kurt) StatDataML: an XML format for statistical data. (English summary)
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Olson, D. L. Comparison of weights in TOPSIS models. (English summary)
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O'Neill, Michael E. (*with* Thomson, Peter C.; Jacobs, Brent C.; Brain, Phil; Butler, Ruth C.; Turner, Heather; Mitakda, Bernadetha) Fitting and comparing seed germination models with a focus on the inverse normal distribution. (English summary)
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Paggiaro, Adriano (*with* Torelli, Nicola) The effect of classification errors in survival data analysis. (English summary)
Park, Chul Gyu Construction of random vectors of heterogeneous component variables under specified correlation structures. (English summary)
Peddada, Shyamal D. *see* **Conaway, Mark R. et al.**
Peña, Daniel A new statistic for influence in linear regression. (English summary)
Peng, Yahong[2] (*with* Little, Roderick J. A.; Raghunathan, Trivellore E.) An extended general location model for causal inferences from data subject to noncompliance and missing values. (English summary)
Perevozchikova, O. L. (*with* Tul'chinskiĭ, V. G.; Kharchenko, AndreĭVyacheslavovich) On specific features of minimizing the risk functional in large data sets. (Russian. English and Ukrainian summaries)
Plassmann, Paul E. *see* **Li, Chuang**, (2005g:65008)
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Queiroz, Sérgio R. de M. (*with* de Carvalho, Francisco de A. T.) A symbolic model-based approach for making collaborative group recommendations. (English summary) (*see* **2005i:62003**)
Rafalin, E. (*with* Souvaine, D. L.) Computational geometry and statistical depth measures. (English summary) (*see* **2005c:62006**)
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Reilly, Cavan (*with* Zeringue, Angelique) Improved predictions of lynx trappings using a biological model. (*see* **2005m:62005**)
Rice, John A. Functional and longitudinal data analysis: perspectives on smoothing. (English summary)
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Rocci, Roberto A general algorithm to fit constrained DEDICOM models. (English summary)
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Romano, M. Carmen *see* **Thiel, Marco et al.**
Rosa, G. J. M. (*with* Gianola, D.; Padovani, C. R.) Bayesian longitudinal data analysis with mixed models and thick-tailed distributions using MCMC. (English summary)
Rosenbaum, Paul R. Matching in observational studies. (*see* **2005m:62005**)
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Rueda García, Maria del Mar (*with* González Aguilera, Silvia; Arcos Cebrián, Antonio) Indirect methods of imputation of missing data based on available units. (English summary)
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Schneeweiss, Hans Estimating the endpoint of a uniform distribution under measurement errors. (English summary)
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Singh, Housila Prasad (*with* Mathur, Nidhi) An optionally randomized response technique. (English summary)
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Sweet, Erik W. Orthogonal polynomial data fitting and finding orthogonal contrast coefficients. (English summary)
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Tanaka, Yutaka[1] (*with* Zhang, Fang Hong[2]; Yang, W. S.) Diagnostics in multivariate data analysis: sensitivity analysis for principal components and canonical correlations. (English summary) (*see* **2005b:62008**)
Tanasa, Doru *see* **Arnoux, Mireille et al.**
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Yu, Menggang (*with* Law, Ngayee J.; Taylor, Jeremy M. G.; Sandler, Howard M.) Joint longitudinal-survival-cure models and their application to prostate cancer. (English summary)
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Zhang, Fang Hong[2] *see* **Tanaka, Yutaka[1] et al.**, (2005b:62008)
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Zhang, Wen Zhuan (*with* Shi, Lei[2]) Assessment of influence on condition indexes of data matrix. (Chinese. English and Chinese summaries)
Zhang, Xiao[2] *see* **Boscardin, W. John**, (2005m:62005)
Zhao, Hai Bing (*with* Cheng, Yi Ming) Statistical analysis of zero-failure data using memoryless property of exponential distribution. (Chinese. English and Chinese summaries) **2005e:62007**
Zhao, Xin[2] (*with* Marron, J. S.; Wells, Martin T.) The functional data analysis view of longitudinal data. (English summary)
Zhou, Xuyu (*with* Fang, Ji-Qian; Yu, Chuanhua; Xu, Zongli; Lu, Ying) Meta-analysis. (English summary) (*see* **2005c:62003**)
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Amirteimoori, Alireza (*with* Kordrostami, Sohrab) Efficient surfaces and an efficiency index in DEA: a constant returns to scale. (English summary)
— (*with* Kordrostami, Sohrab) DEA-like models for multi-component performance measurement. (English summary)
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An, Hyonggin *see* **Little, Roderick J. A.**
Arbogast, Patrick G. (*with* Bedrick, Edward J.) Model-checking techniques for linear models with parametric variance functions. (English summary)
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Balk, Bert M. Divisia price and quantity indices: 80 years after. (English summary)
Bao, Xinli (*with* Bozdogan, Hamparsum) Subsetting kernel regression models using genetic algorithm and the information measure of complexity. (*see* **2005i:62003**)
Barreto, Maria Cecília Mendes (*with* Pierre, Monica Regina Santa Rosa; Del Prette, Zilda Aparecida Pereira; Del Prette, Almir) Social skills of college students: a comparative study. (Portuguese. English and Portuguese summaries)
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(Beran, Rudolf) *see* **Fraser, Donald A. S.**
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Blundell, Richard W. (*with* Dearden, Lorraine; Sianesi, Barbara) Evaluating the effect of education on earnings: models, methods and results from the National Child Development Survey. (English summary)
Böhm, Walter (*with* Geyer-Schulz, A.; Hahsler, M.; Jahn, M.) Repeat-buying theory and its application for recommender services. (English summary) (*see* **2005b:62008**)
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Cañamón, I. (*with* Elorza, F. J.; Mangin, A.; Martín, P. L.; Rodriguez Pons-Esparver, Ramon) Wavelets and statistical techniques for data analysis in a mock-up high-level waste storage experiment. (English summary)
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Ciok, Alicja Cluster analysis based on GCA. (*see* **2005e:62008**)
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Cun, Yann Le *see* **Bottou, Léon**
Dance, S. L. Issues in high resolution limited area data assimilation for quantitative precipitation forecasting. (English summary)
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— (*with* Varadhan, Ravi) Systematizing the evaluation of partially controlled studies using principal stratification: from theory to practice. (English summary)
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Friesen, K. (*with* Schmitz, Hans) Joker—visualization of an object model for a cost accounting educational software. (English summary) (*see* **2005b:62008**)
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Hou, Shui Hung *see* **Troutt, Marvin D. et al.**, **2005b:62005**
Huang, Bao Sheng (*with* Li, Guo Ying[1]) Data analysis of multi-system simultaneous reliability growth tests for exponential-type equipment. (Chinese. English and Chinese summaries) **2005g:62172**
Huber, K.-P. *see* **Säuberlich, F.**, (**2005b:62008**)
Huttley, Gavin A. *see* **Wilson, Susan R.**, (**2005a:62014**)
Hwang, Heungsun (*with* Takane, Yoshio) Structural equation modeling by extended redundancy analysis. (English summary) (*see* **2005b:62010**)
Indurkhya, Alka Impact of missing data and imputation methods on multiple test procedures. (English summary) (*see* **2005h:62008**)
Inoue, Atsushi[4] (*with* Kilian, Lutz) In-sample or out-of-sample tests of predictability: which one should we use? (English summary)
Ishwaran, Hemant *see* **Belin, Thomas R. et al.**, (**2005m:62005**)
Jahn, M. *see* **Böhm, Walter et al.**, (**2005b:62008**)
(Jain, Lakhmi C.) *see* **Applied intelligent systems**, **2005j:68004**
Jaroszewicz, Szymon (*with* Simovici, Dan A.; Rosenberg, Ivo G.) Measures on Boolean polynomials and their applications in data mining. (English summary) **2005e:68236**
Jiang, Ming[1] *see* **Wang, Ge**, **2005j:62014**
Johannsen, David A. (*with* Wegman, Edward J.; Solka, Jeffrey L.; Priebe, Carey E.) Simultaneous selection of features and metric for optimal nearest neighbor classification. (English summary)
Jones, Michael P. *see* **Saha, Chandan**
Jung, Sin-Ho (*with* Ahn, Chul W.) K-sample test and sample size calculation for comparing slopes in data with repeated measurements. (English summary)
Kambhampati, Uma S. (*with* Parikh, Ashok) Has liberalization affected profit margins in Indian industry? (English summary)
Kanevski, Mikhail (*with* Maignan, Michel) ★ Analysis and modelling of spatial environmental data. **2005d:62005**
Kanouse, David E. *see* **Belin, Thomas R. et al.**, (**2005m:62005**)
Kazemi Matin, R. *see* **Hadi Vencheh, A. et al.**
Khan, H. T. Abdullah *see* **Hossain, Ahmed**
Khan, Shahjahan *see* **Chattopadhyay, Asis Kumar**
Khattak, Mahnaz (*with* Shah, Shuhrat; Salahuddin) Mode of inheritance of HLA associated diseases. (English summary)
Khmelëv, D. V. *see* **Kukushkina, O. V. et al.**, **2005g:94029**
Khorram, Esmaile *see* **Haghighat, Mehdi Sohrabi**
Kilian, Lutz *see* **Inoue, Atsushi[4]**
Kilic, Suleyman Bilgin *see* **Canbas, Serpil et al.**
Kim, Seock-Ho *see* **Baker, Frank B.**, **2005c:62002**
Kim, Young Ja *see* **Lee, Kang Sup**
Knopov, Pavel S. (*with* Mar'yanovich, T. P.) On some actual problem in estimating risk for complex systems under insufficient information. (Russian. English and Ukrainian summaries)
Kohayakawa, Yoshiharu *see* **Laber, Eduardo Sany et al.**, (**2005d:68010**)
Koizumi, Shunzo *see* **Yamada, Masahiko et al.**
Kordrostami, Sohrab *see* **Amirteimoori, Alireza**
Kosorok, Michael R. *see* **Cook, Thomas D.**, **2005h:62270**
Kowalczyk, Teresa (*with* Szczesny, Wiesław; Wysocki, Włodzimierz) Dependence Lilliputian model. (*see* **2005e:62008**)
Kreinovich, Vladik Probabilities, intervals, what next? Optimization problems related to extension of interval computations to situations with partial information about probabilities. (English summary) **2005k:90113**
Kreuseler, M. (*with* Nocke, T.; Schumann, Heidrun) Integration of cluster analysis and visualization techniques for visual data analysis. (English summary) (*see* **2005b:62008**)
Krishnamoorthy, Mukkai S. *see* **Punin, J. R. et al.**, (**2005b:62008**)
Krolak-Schwerdt, S. (*with* Ganter, Bernhard) Cognitive organization of person attributes: measurement procedures and statistical models. (English summary) (*see* **2005b:62008**)
Kropf, Siegfried *see* **Westfall, Peter H. et al.**, (**2005i:62006**)
Krüger, Jens J. Structural change in U.S. manufacturing: stationarity and intra-distributional changes. (English summary)
Kukushkina, O. V. (*with* Polikarpov, A. A.; Khmelëv, D. V.) Determination of the authorship of a text using literal and grammatical information. (Russian. Russian summary) **2005g:94029**
Kurths, Jürgen *see* **Marwan, Norbert**, (**2005a:00002**)
Kurtz, Michael *see* **Demleitner, Markus et al.**, (**2005i:62003**)
Laber, Eduardo Sany (*with* Carmo, Renato; Kohayakawa, Yoshiharu) Querying priced information in databases: the conjunctive case (extended abstract). (English summary) (*see* **2005d:68010**)
Laird, Nan M. *see* **Fitzmaurice, Garrett M. et al.**, **2005a:62002**
Lam, Kin *see* **Xue, Hongqi et al.**, **2005b:62221**
Larose, Daniel T. ★ Discovering knowledge in data.
Lechevallier, Yves *see* **de Carvalho, Francisco de A. T. et al.**, (**2005i:62003**)
Lee, June-Yule Adaptive choice of trimming proportions for location estimation of the mean. (English summary)
Lee, Kang Sup (*with* Kim, Young Ja) Comparative analysis on time series models for the number of reported death claims in Korean compulsory automobile insurance. (English summary)
Lee, Suh-Yin *see* **Lin, Ming-Yen**
Lenz, Hans-Joachim *see* **Boyens, Claus et al.**, (**2005g:62004**)
Li, Guo Ying[1] *see* **Xue, Hongqi et al.**, **2005b:62221** *and* **Huang, Bao Sheng**, **2005g:62172**
Li, Qing (*with* Feng, Ling; Wong, Allan) From intra-transaction to generalized inter-transaction: landscaping multidimensional contexts in association rule mining. (English summary)
Li, Siu-Hang (*with* Chan, Wai Sum) Outlier analysis and mortality forecasting: the United Kingdom and Scandinavian countries. (English summary)
Lin, Ming-Yen (*with* Lee, Suh-Yin) Interactive sequence discovery by incremental mining. (English summary)
Liquet, Benoit (*with* Commenges, Daniel) Estimating the expectation of the log-likelihood with censored data for estimator selection. (English summary)
Little, Roderick J. A. (*with* An, Hyonggin) Robust likelihood-based analysis of multivariate data with missing values. (English summary)
Liu, Jun Qiang[2] (*with* Sun, Xiao Ying; Wang, Xun; Pan, Yun He) A new algorithm for mining maximal frequent patterns. (Chinese. English and Chinese summaries)
Liu, Regina Y. (*with* Singh, Kesar; Teng, Julie H.) DDMA-charts: nonparametric multivariate moving average control charts based on data depth. (English summary)
Lloyd, Chris J. (*with* Frommer, Donald J.) Estimating the false negative fraction for a multiple screening test for bowel cancer when negatives are not verified. (English summary)
Longini, Ira M., Jr. *see* **Patel, Rajan et al.**
Lue, Heng-Hui Principal Hessian directions for regression with measurement error. (English summary)
Ma, Guoguang (*with* Heitjan, Daniel F.) Sensitivity to nonignorability in frequentist inference. (*see* **2005m:62005**)
Macula, Anthony J. (*with* Popyack, Leonard J.) A group testing method for finding patterns in data. (English summary) **2005h:68155**
Maignan, Michel *see* **Kanevski, Mikhail**, **2005d:62005**
Mangin, A. *see* **Cañamón, I. et al.**
Mannila, Heikki Local and global methods in data mining: basic techniques and open problems. (English summary) (*see* **2005a:68008**)
Markov, Yu. G. Information fields: the modelling of data in complex system theory. (English summary)
Martín, P. L. *see* **Cañamón, I. et al.**
Martinez, Angel R. *see* **Martinez, Wendy L.**
Martinez, Wendy L. (*with* Martinez, Angel R.) ★ Exploratory data analysis with MATLAB®.
Martínez Conesa, Isabel *see* **Clavel, Jose G. et al.**, (**2005b:62010**)

Marwan, Norbert (*with* Kurths, Jürgen) Cross recurrence plots and their applications. (English summary) (*see* **2005a:00002**)
Mar'yanovich, T. P. *see* **Knopov, Pavel S.**
Masud, Mohammad Shahed (*with* Rahman, M. Mushfiqur) Multiple linear regression with missing covariate values. (English summary)
Mathur, Nidhi *see* **Singh, Housila Prasad**, **2005b:62027**
Matyja, Olaf (*with* Szczesny, Wiesław) Grade correspondence analysis and outlier detection. (*see* **2005e:62008**)
— The GradeStat program. (*see* **2005e:62008**)
McClure, John *see* **Wit, Ernst**, **2005k:62002**
McNeil, Barbara J. *see* **Zou, Kelly H. et al.**, (**2005i:62004**)
Merz, Joachim Kumulation von Mikrodaten—konzeptionelle Grundlagen und ein Vorschlag zur Realisierung. (German summary) [Accumulation of microdata—conceptual foundations and a proposal towards realization]
Meyer, Matthias Sequence mining in marketing. (English summary) (*see* **2005b:62008**)
Miller, J. J. H. *see* **Reyen, Salem S.**, **2005k:62161**
Minoux, M. Polynomial approximation schemes and exact algorithms for optimum curve segmentation problems. (English summary) **2005e:68264**
Mizera, Ivan (*with* Müller, Christine H.) Location-scale depth. (English summary) **2005g:62096**
Montañes Bernal, Antonio *see* **Haldrup, Niels et al.**, **2005k:62191**
Morgenthaler, Stephan *see* **Fernholz, Luisa Turrin et al.**, **2005h:62144**
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Murdoch, James C. *see* **Beron, Kurt J. et al.**, (**2005g:62003**)
Murray, Steven S. *see* **Demleitner, Markus et al.**, (**2005i:62003**)
Muthukrishnan, S. Muthu *see* **Cormode, Graham**, (**2005d:68010**)
Nagarajan, Radhakrishnan (*with* Aubin, Jane E.; Peterson, Charlotte A.) Modeling genetic networks from clonal analysis. (English summary)
Nebbia, Giorgio The gross domestic material product of Italy in 2000. (Italian. English and Italian summaries)
Nekrasov, S. A. Probability-theoretic and statistical models for computing the characteristics of dictionary structures. (Russian. Russian summary) **2005d:94038**
Nicolini, Giovanna A class of estimators based on detectability: applications to measuring the number of clandestine immigrants. (Italian. English and Italian summaries)
Nocke, T. *see* **Kreuseler, M. et al.**, (**2005b:62008**)
Núñez Velázquez, José Javier *see* **Pena Trapero, J. B.**
Nurminen, Markku M. (*with* Heathcote, Christopher R.; Davis, Brett A.; Puza, Borek D.) Working life expectancies: the case of Finland 1980–2006. (English summary)
Oda, Yasutomo *see* **Yamada, Masahiko et al.**
Ohtaki, Megu *see* **Satoh, Kenichi et al.**
Okada, Akinori Using additive conjoint measurement in analysis of social network data. (English summary) (*see* **2005b:62008**)
Ortiz Martínez, Esther *see* **Clavel, Jose G. et al.**, (**2005b:62010**)
Pan, Yun He *see* **Liu, Jun Qiang^2 et al.**
Pang, Wan-Kai *see* **Troutt, Marvin D. et al.**, **2005b:62005**
Parikh, Ashok *see* **Kambhampati, Uma S.**
Parzen, Michael I. *see* **Chen, Li et al.**, (**2005j:62008**)
Patel, Rajan (*with* Longini, Ira M., Jr.; Halloran, M. Elizabeth) Finding optimal vaccination strategies for pandemic influenza using genetic algorithms. (English summary)
Patra, Kaushik (*with* Dey, Dipak K.; Ghosh, Samiran) Bayesian analysis of mixtures of improper survival distributions. (English summary) (*see* **2005h:62008**)
Pearson, Ronald K. ★ Mining imperfect data.
Peinke, J. (*with* Böttcher, Frank; Barth, St.) Anomalous statistics in turbulence, financial markets and other complex systems. (English summary) **2005b:91128**
Pena Trapero, J. B. (*with* Núñez Velázquez, José Javier) Mobility in personal income distribution in Spain. (Spanish. English summary)
Perlman, Michael D. *see* **Castelo, Robert**
Peterson, Charlotte A. *see* **Nagarajan, Radhakrishnan et al.**
Piegorsch, Walter W. (*with* Simmons, Susan J.; Zeiger, Errol) Data mining potency estimators from toxicological databases. (English summary)
Pierdzioch, Christian *see* **Buch, Claudia M. et al.**
Pierre, Monica Regina Santa Rosa *see* **Barreto, Maria Cecília Mendes et al.**
Polikarpov, A. A. *see* **Kukushkina, O. V. et al.**, **2005g:94029**
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Portnoy, Boris A. *see* **Bivand, Roger S.**, (**2005g:62003**)
Priebe, Carey E. *see* **Johannsen, David A. et al.**
Punin, J. R. (*with* Krishnamoorthy, Mukkai S.; Zaki, Mohammed Javeed) Web usage mining—languages and algorithms. (English summary) (*see* **2005b:62008**)
Puza, Borek D. *see* **Nurminen, Markku M. et al.**
Qi, Hong Wei *see* **Tao, Qing et al.**
Rahman, M. Mushfiqur *see* **Masud, Mohammad Shahed**
Read, B. J. *see* **Healy, J. V. et al.**
Reiter, Jerome P. Significance tests for multi-component estimands from multiply imputed, synthetic microdata. (English summary)
Restrepo, Juan M. *see* **Eyink, Gregory L. et al.**, **2005f:82125**
Reyen, Salem S. (*with* Miller, J. J. H.) The moment of inertia and the linear discriminant function. (English summary) **2005k:62161**
Rist, Ulfert Thesaurus migration in practice. (English summary) (*see* **2005b:62008**)
Rodriguez Pons-Esparver, Ramon *see* **Cañamón, I. et al.**
Romero, Vanessa (*with* Salmerón, Antonio) Multivariate imputation of qualitative missing data using Bayesian networks. (*see* **2005i:62007**)
Roscino, Annarita (*with* Pollice, Alessio) A statistical analysis of the customer satisfaction with car dealers. (English summary)
Rosenberg, Ivo G. *see* **Jaroszewicz, Szymon et al.**, **2005e:68236**
Saha, Chandan (*with* Jones, Michael P.) Asymptotic bias in the linear mixed effects model under non-ignorable missing data mechanisms. (English summary)
Saito, Takayuki (*with* Yadohisa, Hiroshi) ★ Data analysis of asymmetric structures. **2005j:62006**
Salahuddin *see* **Khattak, Mahnaz et al.**
Salmerón, Antonio *see* **Romero, Vanessa**, (**2005i:62007**)
Sánchez, Daniel *see* **Calero, Julio et al.**, (**2005i:62007**)
Sansó Rosselló, Andreu *see* **Haldrup, Niels et al.**, **2005k:62191**
Satoh, Kenichi (*with* Yanagihara, Hirokazu; Ohtaki, Megu) Clustering method by connected neighborhoods and its application. (English summary)
Säuberlich, F. (*with* Huber, K.-P.) A framework for web usage mining on anonymous logfile data. (English summary) (*see* **2005b:62008**)
Schmidt-Thieme, Lars ★ Assoziationsregel-Algorithmen für Daten mit komplexer Struktur. (German) [Association rule algorithms for data with complex structure]
— *see also* **Gaul, Wolfgang**, (**2005b:62010**)
Schmitz, Hans *see* **Friesen, K.**, (**2005b:62008**)
Schumann, Heidrun *see* **Kreuseler, M. et al.**, (**2005b:62008**)
Segawa, Keiko Outline of environmental statistics in the ministry of the environment. (Japanese. English and Japanese summaries)
Serrano, José-María *see* **Calero, Julio et al.**, (**2005i:62007**)
Shah, Shuhrat *see* **Khattak, Mahnaz et al.**
Shasha, Dennis (*with* Zhu, Yunyue) ★ High performance discovery in time series. **2005c:62001**
Sheĭnin, O. B. Fechner as a statistician. (English summary)
Shum, Matthew *see* **Crawford, Gregory S.**, **2005m:91042**
Sianesi, Barbara *see* **Blundell, Richard W. et al.**
Simmons, Susan J. *see* **Piegorsch, Walter W. et al.**
Simovici, Dan A. *see* **Jaroszewicz, Szymon et al.**, **2005e:68236**
Singh, Housila Prasad (*with* Chandra, Prem^2; Singh, Sarjinder) Variance estimation using multiauxiliary information for random non-response in survey sampling. (English and Italian summaries)
— (*with* Mathur, Nidhi) Unknown repeated trials in the unrelated question randomized response model. (English summary) **2005b:62027**
Singh, Kesar *see* **Liu, Regina Y. et al.**
Singh, Sarjinder *see* **Singh, Housila Prasad et al.**
Skovgaard, Ib Michael *see* **Bibby, Bo Martin et al.**, **2005k:60249** *and* **Fraser, Donald A. S.**
Small, Kenneth A. (*with* Winston, Clifford; Yan, Jia) Uncovering the distribution of motorists' preferences for travel time and reliability. (English summary)
Sobolev, L. G. Identification of experimental trends by L_χ-transform methods. (Russian. Russian summary) **2005e:93160**
Solka, Jeffrey L. *see* **Johannsen, David A. et al.**
Sondhauss, U. M. *see* **Weihs, Claus**, (**2005b:62008**)
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de Souza, Renata M. C. R. *see* **de Carvalho, Francisco de A. T. et al.**, (**2005i:62003**)
Sparks, Ross What has data mining got to do with statistical process monitoring? A case study. (English summary) (*see* **2005a:62017**)
Staat, Matthias *see* **Bauer, H. H. et al.**, (**2005b:62008**)
Starosel'tseva, N. G. (*with* Tsukerman, E. V.) On a method for early diagnosis. (Russian) (*see* **2005i:00009**)
Stausberg, J. (*with* Albrecht, Thomas) Data mining tools for quality management in health care. (English summary) (*see* **2005b:62008**)
Sun, Xiao Ying *see* **Liu, Jun Qiang^2 et al.**
Szczesny, Wiesław Grade approach to the analysis of finite data matrices. (*see* **2005e:62008**)
— Inequality measures for multivariate distributions. (*see* **2005e:62008**)
— (*with* Grzegorek, Maria) Case studies with multivariate data. (*see* **2005e:62008**)
— *see also* **Kowalczyk, Teresa et al.**, (**2005e:62008**) *and* **Matyja, Olaf**, (**2005e:62008**)
Takanashi, Hirokazu A procedure for statistical evaluation of Ames *Salmonella* mutagenicity assay results based on two-sample t-test. (Japanese. English and Japanese summaries)
Takane, Yoshio *see* **Hwang, Heungsun**, (**2005b:62010**)
Tan, Ming Describing data, variability and over-dispersion in medical research. (*see* **2005c:62003**)
Tao, Qing (*with* Qi, Hong Wei; Wu, Gao Wei; Zhang, Xian) η-one-class problems and η-outliers and their LP learning algorithms. (Chinese. English and Chinese summaries)
Tavassoli Kajani, M. *see* **Hadi Vencheh, A. et al.**
Teng, Julie H. *see* **Liu, Regina Y. et al.**
Thayer, Mark A. *see* **Beron, Kurt J. et al.**, (**2005g:62003**)
Troutt, Marvin D. (*with* Pang, Wan-Kai; Hou, Shui Hung) ★ Vertical density representation and its applications. **2005b:62005**
Tsukerman, E. V. *see* **Starosel'tseva, N. G.**, (**2005i:00009**)
Tukey, John W. *see* **Fernholz, Luisa Turrin et al.**, **2005h:62144**
Varadhan, Ravi *see* **Frangakis, Constantine E.**
Vempala, Santosh S. *see* **Dunagan, John**, **2005d:68151**
Verde, Rosanna Clustering methods in symbolic data analysis. (English summary) (*see* **2005i:62003**)
Vila, María-Amparo *see* **Calero, Julio et al.**, (**2005i:62007**)
Walker, Agnes E. Modelling health inequalities using dynamic microsimulation: statistical issues and future scope. (English summary) (*see* **2005a:62014**)
Wang, Ge (*with* Jiang, Ming[1]) Axiomatic characterization of nonlinear homomorphic means. **2005j:62014**
Wang, Xun *see* **Liu, Jun Qiang^2 et al.**
Ware, James H. *see* **Fitzmaurice, Garrett M. et al.**, **2005a:62002**
(Watanabe, Michiko) *see* **EM algorithm and related statistical models**, **2005f:62005**
Wegman, Edward J. *see* **Johannsen, David A. et al.**
Wei, Lee-Jen *see* **Chen, Li et al.**, (**2005j:62008**)
Weihs, Claus (*with* Sondhauss, U. M.) Combining mental fit and data fit for classification rule selection. (English summary) (*see* **2005b:62008**)
Westfall, Peter H. (*with* Kropf, Siegfried; Finos, Livio) Weighted FWE-controlling methods in high-dimensional situations. (English summary) (*see* **2005i:62006**)
Wilson, Mark R. (*with* Draney, Karen) A technique for setting standards and maintaining them over time. (English summary) (*see* **2005b:62010**)
— *see also* **Explanatory item response models**, **2005f:62006**
Wilson, Susan R. (*with* Huttley, Gavin A.) Non-replicability of disease gene results: a modelling perspective. (English summary) (*see* **2005a:62014**)

Winston, Clifford *see* **Small, Kenneth A. et al.**
Wit, Ernst (*with* McClure, John) ★ Statistics for microarrays. **2005k:62002**
Wong, Allan *see* **Li, Qing et al.**
Wong, Andrew K. C. *see* **Chiu, David K. Y.**
Wu, Gao Wei *see* **Tao, Qing et al.**
Wysocki, Włodzimierz *see* **Kowalczyk, Teresa et al.**, (**2005e:62008**)
Xue, Hongqi (*with* Lam, Kin; Li, Guo Ying[1]) Sieve maximum likelihood estimator for semiparametric regression models with current status data. (English summary) **2005b:62221**
Yadohisa, Hiroshi *see* **Saito, Takayuki**, **2005j:62006**
Yamada, Masahiko (*with* Yamashita, Tomoko; Oda, Yasutomo; Emura, Sei; Yamashiro, Seiji; Koizumi, Shunzo) Nonlinear measures of heart beat intervals differ in female patients with chest pain. (English summary)
(Yamaguchi, Kazunori[2]) *see* **EM algorithm and related statistical models**, **2005f:62005**
Yamashiro, Seiji *see* **Yamada, Masahiko et al.**
Yamashita, Tomoko *see* **Yamada, Masahiko et al.**
Yan, Jia *see* **Small, Kenneth A. et al.**
Yanagihara, Hirokazu *see* **Satoh, Kenichi et al.**
Zaki, Mohammed Javeed *see* **Punin, J. R. et al.**, (**2005b:62008**)
Zaslavsky, Alan M. Representing the census undercount by multiple imputation of households. (*see* **2005m:62005**)
Zeiger, Errol *see* **Piegorsch, Walter W. et al.**
Zhang, He Ping[1] *see* **Zhu, Hongtu**, **2005c:62127**
Zhang, Xian *see* **Tao, Qing et al.**
Zhu, Hongtu (*with* Zhang, He Ping[1]) A diagnostic procedure based on local influence. (English summary) **2005c:62127**
Zhu, Yunyue *see* **Shasha, Dennis**, **2005c:62001**
Zou, Kelly H. (*with* Gastwirth, Joseph L.; McNeil, Barbara J.) A goodness-of-fit test for a receiver operating characteristic curve from continuous diagnostic test data. (English summary) (*see* **2005i:62004**)
Zuo, Yijun Projection-based affine equivariant multivariate location estimators with the best possible finite sample breakdown point. (English summary) **2005j:62062**

Items listed otherwise than by author

Applied intelligent systems ★ Applied intelligent systems. **2005j:68004**
Bibliography:
Fechner, Gustav Theodor *see* **Sheĭnin, O. B.**
Biography:
Fechner, Gustav Theodor *see* **Sheĭnin, O. B.**
EM algorithm and related statistical models ★ The EM algorithm and related statistical models. **2005f:62005**
Explanatory item response models ★ Explanatory item response models. **2005f:62006**

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Cohen, Noah *see* **Kim, Inyoung**
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Dahlhaus, Rainer (*with* Eichler, Michael) Causality and graphical models in time series analysis. (*see* **2005b:62009**)
Dawid, A. Philip Causal inference using influence diagrams: the problem of partial compliance. (*see* **2005b:62009**)
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— *see also* **Dahlhaus, Rainer**, (**2005b:62009**)
Drton, Mathias (*with* Perlman, Michael D.) Model selection for Gaussian concentration graphs. (English summary)
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Eichler, Michael *see* **Dahlhaus, Rainer**, (**2005b:62009**)
Emerson, Scott S. *see* **Nason, Martha et al.**
Flórez, José Luis Bayesian networks to improve the balanced scorecard. (*see* **2005i:62007**)
Fronk, Eva-Maria (*with* Giudici, Paolo) Markov chain Monte Carlo model selection for DAG models. (English summary)
Ganguli, Bhaswati (*with* Wand, M. P.) Feature significance in geostatistics. (English summary)
Giudici, Paolo *see* **Fronk, Eva-Maria**
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Hayashi, Chikio Une nouvelle méthode d'analyse de données: la méthode "points et flèches". ["Points and arrows": a new method for data analysis] (*see* **2005m:62006**)
Jordan, Michael I. Graphical models. (English summary)
Kim, Inyoung (*with* Cohen, Noah) Semiparametric and nonparametric modeling for effect modification in matched studies. (English summary)
Klemelä, Jussi Visualization of multivariate density estimates with level set trees. (English summary)
(Koster, Jan T. A.) *see* **Richardson, Thomas S.**, (**2005b:62009**)
(Künsch, Hans R.) *see* **Dahlhaus, Rainer**, (**2005b:62009**)
Kuroki, Manabu Bounds on average causal effects in studies with a latent response variable. (English summary) **2005j:62011**
Lauritzen, Steffen L. Some modern applications of graphical models. (*see* **2005b:62009**)
LeBlanc, Michael *see* **Nason, Martha et al.**
Lenz, Hans-Joachim Trouble-shooting by graphical models. (English summary) (*see* **2005a:62017**)
Lin, Juan K. Approximate inference based on convex set sampling. (English summary) **2005d:62010**
López-Díaz, Miguel (*with* Rodríguez-Muñiz, Luis J.) Addition nodes in influence diagrams with fuzzy-valued utilities and variables. (*see* **2005i:62007**)
Michailidis, George *see* **de Sousa, Bruno**
(Mortera, Julia) *see* **Lauritzen, Steffen L.**, (**2005b:62009**)
Müller, Hans-Georg (*with* Wai, Newton) Change trees and mutagrams for the visualization of local changes in sequence data. (English summary)
Nason, Martha (*with* Emerson, Scott S.; LeBlanc, Michael) CARTscans: a tool for visualizing complex models. (English summary)
Olive, David J. Visualizing 1D regression. (English summary) (*see* **2005c:62006**)
Perlman, Michael D. *see* **Drton, Mathias**
Richardson, Thomas S. (*with* Spirtes, Peter) Causal inference via ancestral graph models. (*see* **2005b:62009**)
(Robins, James M.) *see* **Dawid, A. Philip**, (**2005b:62009**)
da Rocha, José Carlos F. (*with* Cozman, Fabio Gagliardi) Inference in credal networks: branch-and-bound methods and the A/R+ algorithm. (English summary)
Rodríguez-Muñiz, Luis J. *see* **López-Díaz, Miguel**, (**2005i:62007**)
Shaw, Simon C. *see* **Goldstein, Michael[1]**, **2005b:62013**
de Sousa, Bruno (*with* Michailidis, George) A diagnostic plot for estimating the tail index of a distribution. (English summary)
Spirtes, Peter *see* **Richardson, Thomas S.**, (**2005b:62009**)
(Studený, Milan) *see* **Richardson, Thomas S.**, (**2005b:62009**)
Symanzik, Jürgen Interactive and dynamic graphics. (*see* **2005g:62004**)
Trosset, Michael W. Visualizing correlation. (English summary)
Wai, Newton *see* **Müller, Hans-Georg**
Wand, M. P. *see* **Ganguli, Bhaswati**
(Wermuth, Nanny) *see* **Lauritzen, Steffen L.**, (**2005b:62009**)
Wilkinson, Leland The grammar of graphics. (*see* **2005g:62004**)

Items with secondary classifications in 62–09

Andersson, Steen A. (*with* Wojnar, G. Gerard) The Wishart distributions on homogeneous cones. (English summary)
Arbogast, Patrick G. (*with* Lin, Danyu Y.) Goodness-of-fit methods for matched case-control studies. (English and French summaries)
Bach, Francis R. (*with* Jordan, Michael I.) Learning graphical models for stationary time series. (English summary)
Castelo, Robert (*with* Perlman, Michael D.) Learning essential graph Markov models from data. (English summary)
Chapman, S. C. *see* **March, T. K. et al.**
Chen, Shyi-Ming (*with* Lee, Chun-Te) A new data mining method based on relational graphs of products. (English summary)
Choi, Yeon-ho *see* **Kim, Inyoung et al.**
Chung, Hyun Cheol *see* **Kim, Inyoung et al.**
Cook, R. Dennis *see* **Yin, Xiangrong**, **2005d:62094**
Coull, Brent A. *see* **Houseman, E. Andrés et al.**, **2005b:62147**
Cozman, Fabio Gagliardi Graphical models for imprecise probabilities. (English summary) **2005k:68190**
Dendy, R. O. *see* **March, T. K. et al.**
Efromovich, Sam On logarithmic penalty in adaptive pointwise estimation and blockwise wavelet shrinkage. (English summary) **2005k:62087**
Eidous, Omar M. Some improvements for histogram estimator using line transect sampling. (English summary)
Fried, Roland Time series models with given interactions. (English summary) (*see* **2005a:62016**)
Gower, John C. The geometry of biplot scaling. (English summary)
Ho, Yu-Yun *see* **Peruggia, Mario et al.**
Houseman, E. Andrés (*with* Ryan, Louise M.; Coull, Brent A.) Cholesky residuals for assessing normal errors in a linear model with correlated outcomes. (English summary) **2005b:62147**
(Johnson, Mark Edward) *see* **Mathematical foundations of speech and language processing**, **2005c:68009**
Jones, Geoffrey *see* **Luo, Dongwen et al.**
Jordan, Michael I. *see* **Bach, Francis R.**
(Khudanpur, Sanjeev P.) *see* **Mathematical foundations of speech and language processing**, **2005c:68009**
Kim, Byung Soo[1] *see* **Kim, Inyoung et al.**
Kim, Inyoung (*with* Choi, Yeon-ho; Chung, Hyun Cheol; Rha, Sun Young; Kim, Byung Soo[1]) Statistical method of determining a cut off value between normal and disease groups. (English summary)
Kowalczyk, Teresa (*with* Szczesny, Wiesław) Preliminary concepts of bivariate dependence. (*see* **2005e:62008**)
Lee, Chun-Te *see* **Chen, Shyi-Ming**
Lin, Danyu Y. *see* **Arbogast, Patrick G.**
Lue, Heng-Hui Principal Hessian directions for regression with measurement error. (English summary)
Luo, Dongwen (*with* Wood, Graham R.; Jones, Geoffrey) Visualising contingency table data. (English summary)
March, T. K. (*with* Chapman, S. C.; Dendy, R. O.) Recurrence plot statistics and the effect of embedding. (English summary)
Marchette, David J. Network intrusion detection. (*see* **2005g:62004**)
(Ostendorf, Mari) *see* **Mathematical foundations of speech and language processing**, **2005c:68009**
Paterlini, Sandra *see* **Roverato, Alberto**
Perlman, Michael D. *see* **Castelo, Robert**
Peruggia, Mario (*with* Santner, Thomas J.; Ho, Yu-Yun) Detecting stage-wise outliers in hierarchical Bayesian linear models of repeated measures data. (English summary)
Rha, Sun Young *see* **Kim, Inyoung et al.**
Romanazzi, Mario Data depth and correlation. (English summary)
(Rosenfeld, Roni) *see* **Mathematical foundations of speech and language processing**, **2005c:68009**
Roverato, Alberto (*with* Paterlini, Sandra) Technological modelling for graphical models: an approach based on genetic algorithms. (English summary)
Ryan, Louise M. *see* **Houseman, E. Andrés et al.**, **2005b:62147**
Santner, Thomas J. *see* **Peruggia, Mario et al.**

Scott, David W. Multivariate density estimation and visualization. (*see* **2005g:62004**)
Szczesny, Wiesław *see* **Kowalczyk, Teresa**, (**2005e:62008**)
Tarsitano, Agostino A new class of inequality measures based on a ratio of L-statistics. (English summary)
Wainer, Howard ★ Graphic discovery. **2005k:00002**
Wilhelm, Adalbert Data and knowledge mining. (*see* **2005g:62004**)
Wojnar, G. Gerard *see* **Andersson, Steen A.**
Wood, Graham R. *see* **Luo, Dongwen et al.**
Yin, Xiangrong (*with* Cook, R. Dennis) Dimension reduction via marginal fourth moments in regression. (English summary) **2005d:62094**

Items listed otherwise than by author

Mathematical foundations of speech and language processing ★ Mathematical foundations of speech and language processing. **2005c:68009**
Minneapolis, MN ★ Mathematical foundations of speech and language processing. **2005c:68009**

62A01 Foundational and philosophical topics

Augustin, Thomas[1] Optimal decisions under complex uncertainty—basic notions and a general algorithm for data-based decision making with partial prior knowledge described by interval probability. (English summary)
(Bandyopadhyay, Prasanta S.) *see* **Maurer, Brian A., 2005j:62013**
Baudrit, Cédric (*with* Dubois, Didier; Fargier, Hélène) Representation of incomplete probabilistic information. (*see* **2005i:62007**)
Bayarri, M. J. (*with* Berger, James O.) The interplay of Bayesian and frequentist analysis. (English summary) **2005h:62012**
(Bennett, John G.) *see* **Maurer, Brian A., 2005j:62013**
Berger, James O. *see* **Bayarri, M. J., 2005h:62012**
Bernard, Jean-Marc An introduction to the imprecise Dirichlet model for multinomial data. (English summary)
(Boik, Robert J.) *see* **Forster, Malcolm, 2005g:62006**
(Bozdogan, Hamparsum) *see* **Taper, Mark L., 2005g:62008**
(Casella, George) *see* **Mayo, Deborah G., 2005m:62010**
Chen, Chih-Rung (*with* Wang, Lih-Chung) Likelihood inference under the general response transformation model with heteroscedastic errors. (English summary) **2005a:62024**
(Cox, David R.) *see* **Lindsay, Bruce G., 2005h:62016** *and* **Royall, Richard, 2005i:62013**
de Cristofaro, Rodolfo On the foundations of likelihood principle. (English summary) **2005h:62013**
(Curd, Martin) *see* **Royall, Richard, 2005i:62013**
Dennis, Brian Statistics and the scientific method in ecology. (English summary) (*see* **2005d:62007**)
Dubois, Didier *see* **Baudrit, Cédric et al.**, (**2005i:62007**)
Earman, John Bayes, Hume, Price, and miracles. (*see* **2005b:62007**)
Eaton, Morris L. (*with* Freedman, David A.) Dutch book against some 'objective' priors. (English summary) **2005j:62012**
(Ellison, Aaron M.) *see* **Dennis, Brian**, (**2005d:62007**)
(Ellner, Stephen P.) *see* **Lindsay, Bruce G., 2005h:62016**
Fargier, Hélène *see* **Baudrit, Cédric et al.**, (**2005i:62007**)
Forster, Malcolm (*with* Sober, Elliott) Why likelihood? (English summary) **2005g:62006**
(Fortin, Marie-Josée) *see* **Scheiner, Samuel M., 2005h:62017**
Freedman, David A. *see* **Eaton, Morris L., 2005j:62012**
Goodman, Daniel Taking the prior seriously: Bayesian analysis without subjective probability. (English summary) **2005h:62014**
Green, Peter J. (*with* Hjort, Nils Lid; Richardson, Sylvia) Introducing highly structured stochastic systems. (*see* **2005b:62009**)
Guo, Cheng-En *see* **Wu, Ying Nian et al.**, (**2005m:62005**)
Hareter, Dietmar *see* **Viertl, Reinhard**
Herkenrath, Ulrich Stochastics: the science of modelling, measuring and mastering randomness and uncertainty. **2005h:62015**
(Heyde, Christopher C.) *see* **Lele, Subhash R., 2005m:62009**
Hjort, Nils Lid *see* **Green, Peter J. et al.**, (**2005b:62009**)
Huang, Guo Shun (*with* Liu, Yun Sheng) A new kind of fuzzy likelihood functions. (Chinese. English and Chinese summaries)
(Jaynes, Edwin T.) *see* **Tribus, Myron**, (**2005c:62004**)
Jiang, Ming[1] *see* **Wang, Ge, 2005j:62014**
Kohlas, Jürg Reliability of arguments. (English summary) **2005i:62011**
(Kruse, Michael) *see* **Forster, Malcolm, 2005g:62006**
Lele, Subhash R. Evidence functions and the optimality of the law of likelihood. (English summary) **2005m:62009**
— Elicit data, not prior: on using expert opinion in ecological studies. (English summary) (*see* **2005d:62007**)
— *see also* **Lewin-Koh, Nicholas et al.**, (**2005d:62007**)
Lewin-Koh, Nicholas (*with* Taper, Mark L.; Lele, Subhash R.) A brief tour of statistical concepts. (English summary) (*see* **2005d:62007**)
Lindsay, Bruce G. Statistical distances as loss functions in assessing model adequacy. **2005h:62016**
Liu, Xueli (*with* Müller, Hans-Georg) Functional convex averaging and synchronization for time-warped random curves. (English summary) **2005d:62011**
Liu, Yun Sheng *see* **Huang, Guo Shun**
Maurer, Brian A. Models of scientific inquiry and statistical practice: implications for the structure of scientific knowledge. (English summary) **2005j:62013**
Mayo, Deborah G. An error-statistical philosophy of evidence. (English summary) **2005m:62010**
(McCoy, Earl D.) *see* **Mayo, Deborah G., 2005m:62010**
(McCulloch, Charles E.) *see* **Dennis, Brian**, (**2005d:62007**)
(Molles, Manuel C., Jr.) *see* **Scheiner, Samuel M., 2005h:62017**
Müller, Hans-Georg *see* **Liu, Xueli, 2005d:62011**
(Nelson, Paul I.) *see* **Lele, Subhash R., 2005m:62009**
Ralescu, Dan A. Fuzzy probability and some applications. **2005i:62012**
Rao, Calyampudi Radhakrishna Has statistics a future? If so, in what form? (English summary) **2005k:62007**
Richardson, Sylvia *see* **Green, Peter J. et al.**, (**2005b:62009**)
Royall, Richard The likelihood paradigm for statistical evidence. (English summary) **2005i:62013**
Rubin, Donald B. Direct and indirect causal effects via potential outcomes. (English summary) **2005d:62012**
Scheiner, Samuel M. Experiments, observations, and other kinds of evidence. **2005h:62017**
(Singpurwalla, Nozer D.) *see* **Goodman, Daniel, 2005h:62014**
Sober, Elliott Bayesianism—its scope and limits. **2005g:62007**
— *see also* **Forster, Malcolm, 2005g:62006**
Sprott, David A. What is optimality in scientific inference? **2005k:62008**
Taper, Mark L. Model identification from many candidates. (English summary) **2005g:62008**
— *see also* **Lewin-Koh, Nicholas et al.**, (**2005d:62007**)
Tribus, Myron Some larger significances of the work of Edwin T. Jaynes. (English summary) (*see* **2005c:62004**)
(Tuckfield, R. Cary) *see* **Lele, Subhash R.**, (**2005d:62007**)
(Verdinelli, Isabella) *see* **Taper, Mark L., 2005g:62008**
Vereshchagin, Nikolai K. (*with* Vitányi, Paul M. B.) Kolmogorov's structure functions and model selection. (English summary) **2005i:62014**
Viertl, Reinhard (*with* Hareter, Dietmar) Fuzzy information and imprecise probability. (English summary)
Vitányi, Paul M. B. *see* **Vereshchagin, Nikolai K., 2005i:62014**
(Waller, Lance A.) *see* **Lele, Subhash R.**, (**2005d:62007**)
Wang, Ge (*with* Jiang, Ming[1]) Axiomatic characterization of nonlinear homomorphic means. **2005j:62014**
Wang, Lih-Chung *see* **Chen, Chih-Rung, 2005a:62024**
(Wasserman, Larry) *see* **Taper, Mark L., 2005g:62008**
(Wilson, Mark L.) *see* **Maurer, Brian A., 2005j:62013**
Wu, Ying Nian (*with* Guo, Cheng-En; Zhu, Song Chun) Perceptual scaling. (*see* **2005m:62005**)
Zhu, Song Chun *see* **Wu, Ying Nian et al.**, (**2005m:62005**)

Items with secondary classifications in 62A01

Aalen, Odd O. *see* **Lauritzen, Steffen L., 2005e:60007**
Alonso Abad, Ariel (*with* Molenberghs, Geert; Burzykowski, Tomasz; Renard, Didier; Geys, Helena; Shkedy, Ziv; Tibaldi, Fabián; Cortinas Abrahantes, José; Buyse, Marc) Prentice's approach and the meta-analytic paradigm: a reflection on the role of statistics in the evaluation of surrogate endpoints. (English summary) **2005i:62153**
Antonucci, Alessandro (*with* Salvetti, Andrea; Zaffalon, Marco) Assessing debris flow hazard by credal nets. (*see* **2005i:62007**)
Araabi, Babak N. *see* **Hatami, S. et al.**
Arjas, Elja (*with* Parner, Jan) Causal reasoning from longitudinal data. (English summary) **2005e:60006**
— *see also* **Lauritzen, Steffen L., 2005e:60007**
Bedrick, Edward J. *see* **Brown, James H. et al.**, (**2005d:62007**)
Brooks, Stephen P. Bayesian computation: a statistical revolution. (English summary) **2005e:62004**
Brown, James H. (*with* Bedrick, Edward J.; Ernest, S. K. Morgan; Cartron, Jean-Luc E.; Kelly, Jeffrey F.) Constraints on negative relationships: mathematical causes and ecological consequences. (English summary) (*see* **2005d:62007**)
Burzykowski, Tomasz *see* **Alonso Abad, Ariel et al., 2005i:62153**
Buyse, Marc *see* **Alonso Abad, Ariel et al., 2005i:62153**
Cartron, Jean-Luc E. *see* **Brown, James H. et al.**, (**2005d:62007**)
(Cherry, Steve) *see* **Brown, James H. et al.**, (**2005d:62007**)
Clarke, Bertrand *see* **Wong, Hubert**
Coletti, Giulianella (*with* Scozzafava, Romano) ★ Probabilistic logic in a coherent setting. **2005b:03001**
von Collani, Elart Theoretical stochastics. **2005d:60003**
— Empirical stochastics. **2005d:60004**
— A note on the quality of statistical quality control procedures. (English summary) (*see* **2005a:62017**)
Cortinas Abrahantes, José *see* **Alonso Abad, Ariel et al., 2005i:62153**
Cozman, Fabio Gagliardi Graphical models for imprecise probabilities. (English summary) **2005k:68190**
Dawid, A. Philip Bayes's theorem and weighing evidence by juries. **2005f:62167**
— Probability, causality and the empirical world: a Bayes-de Finetti-Popper-Borel synthesis. (English summary) **2005f:60011**
Dehejia, Rajeev H. Estimating causal effects in nonexperimental studies. (*see* **2005m:62005**)
(Dezert, Jean) *see* **Advances and applications of DSmT for information fusion**
Diaconis, Persi (*with* Holmes, Susan) A Bayesian peek into Feller volume I. (English summary) **2005e:60022**
(Dixon, Philip M.) *see* **Taper, Mark L.**, (**2005d:62007**)
Eaton, Morris L. (*with* Sudderth, William D.) Properties of right Haar predictive inference. (English summary) **2005k:62137**
Ernest, S. K. Morgan *see* **Brown, James H. et al.**, (**2005d:62007**)
Frost, Thomas M. *see* **Miller, Jean A.**, (**2005d:62007**)
Geys, Helena *see* **Alonso Abad, Ariel et al., 2005i:62153**
Gilboa, Itzhak (*with* Schmeidler, David) Subjective distributions. (English summary) **2005k:60009**
Gottvald, Aleš Exponential family and inverse problems. On metamorphoses of probability theory. (English summary) **2005a:60009**
Greenland, Sander An overview of methods for causal inference from observational studies. (*see* **2005m:62005**)
Groen, Frank J. (*with* Mosleh, Ali) Foundations of probabilistic inference with uncertain evidence. (English summary) **2005k:68194**

Gyenis, Balázs (*with* Rédei, Miklós) When can statistical theories be causally closed? (English summary) **2005e:00007**
Hatami, S. (*with* Araabi, Babak N.; Lucas, Caro) A new fuzzy morphology approach based on the fuzzy-valued generalized Dempster-Shafer theory. (English summary)
Held, Hermann *see* **Kriegler, Elmar, 2005k:62249**
Hiddleston, Eric Causal powers. (English summary)
Hill, Jennifer Lynn (*with* Reiter, Jerome P.; Zanutto, Elaine L.) A comparison of experimental and observational data analyses. (*see* **2005m:62005**)
Holmes, Susan *see* **Diaconis, Persi, 2005e:60022**
(Holt, Robert D.) *see* **Brown, James H. et al., (2005d:62007)**
Hryniewicz, Olgierd Statistical decisions in quality audits—a possibilistic interpretation of single statistical tests. (English summary) (*see* **2005a:62017**)
Huber, Franz Subjective probabilities as basis for scientific reasoning? (English summary) **2005j:00002**
Jeffrey, Richard ★ Subjective probability. **2005h:60005**
Jiang, Wenxin (*with* Turnbull, Bruce W.) The indirect method: inference based on intermediate statistics—a synthesis and examples. (English summary)
Kelly, Jeffrey F. *see* **Brown, James H. et al., (2005d:62007)**
Kluve, Jochen On the role of counterfactuals in inferring causal effects. (English summary) **2005a:03016**
Kostrzycka, Zofia (*with* Zaionc, Marek) Statistics of intuitionistic versus classical logics. (English summary) **2005a:03022**
Kott, Phillip S. Randomization-assisted model-based survey sampling. (English summary)
Kreinovich, Vladik *see* **Nguyen, Hung Trung et al., 2005e:60009**
Kriegler, Elmar (*with* Held, Hermann) Utilizing belief functions for the estimation of future climate change. (English summary) **2005k:62249**
Lauretto, Marcelo (*with* Pereira, Carlos Alberto de Bragança; Stern, Julio Michael; Zacks, Shelemyahu) Full Bayesian significance test applied to multivariate normal structure models. (English summary) **2005j:62065**
Lauritzen, Steffen L. (*with* Aalen, Odd O.) Discussion on causality. Comment on: "Direct and indirect causal effects via potential outcomes" [Scand. J. Statist. **31** (2004), no. 2, 161–170; MR2066246 (2005d:62012)] by D. B. Rubin and "Causal reasoning from longitudinal data" [ibid., 171–187; MR2066247 (2005e:60006)] by E. Arjas and J. Parner. (English summary) **2005e:60007**
Lele, Subhash R. *see* **Nature of scientific evidence, 2005d:62007; Taper, Mark L., 2005d:62007; (2005d:62007)** *and* **(2005d:62007)**
(Link, William A.) *see* **Miller, Jean A., (2005d:62007)**
Longpré, Luc *see* **Nguyen, Hung Trung et al., 2005e:60009**
Loschi, Rosangela H. (*with* Wechsler, Sergio) Coherence, Bayes's theorem and posterior distributions. (English summary) **2005a:60010**
Lucas, Caro *see* **Hatami, S. et al.**
(McCulloch, Charles E.) *see* **Miller, Jean A., (2005d:62007)**
Miller, Jean A. (*with* Frost, Thomas M.) Whole-ecosystem experiments: replication and arguing from error. (English summary) (*see* **2005d:62007**)
Mishra, Sant Sharan (*with* Pandey, Himanshu; Singh, Radhey S.) A fuzzified deteriorating inventory model with breakdown of machine and shortage cost. (English summary)
Molenberghs, Geert *see* **Alonso Abad, Ariel et al., 2005i:62153**
Mosleh, Ali *see* **Groen, Frank J., 2005k:68194**
Nguyen, Hung Trung (*with* Kreinovich, Vladik; Longpré, Luc) Dirty pages of logarithm tables, lifetime of the universe, and (subjective) probabilities on finite and infinite intervals. (English summary) **2005e:60009**
Okasha, Samir Multi-level selection, covariance and contextual analysis. (English summary)
(Orzack, Steven Hecht) *see* **Taper, Mark L., (2005d:62007)**
Pandey, Himanshu *see* **Mishra, Sant Sharan et al.**
Parner, Jan *see* **Arjas, Elja, 2005e:60006** *and* **Lauritzen, Steffen L., 2005e:60007**
Pelessoni, Renato (*with* Vicig, Paolo) Uncertainty modelling and conditioning with convex imprecise previsions. (English summary) **2005k:60011**
Pereira, Carlos Alberto de Bragança *see* **Lauretto, Marcelo et al., 2005j:62065**
Rédei, Miklós *see* **Gyenis, Balázs, 2005e:00007**
Reiter, Jerome P. *see* **Hill, Jennifer Lynn et al., (2005m:62005)**
Renard, Didier *see* **Alonso Abad, Ariel et al., 2005i:62153**
(Rubin, Donald B.) *see* **Lauritzen, Steffen L., 2005e:60007**
Ryabinin, I. A. Logical-probabilistic calculus as an apparatus for investigating the reliability safety of structurally complex systems. (Russian. Russian summary) **2005j:03018**
Salvetti, Andrea *see* **Antonucci, Alessandro et al., (2005i:62007)**
Schmeidler, David *see* **Gilboa, Itzhak, 2005k:60009**
Scozzafava, Romano (*with* Vantaggi, Barbara) The role of zero probabilities in dealing with zero frequency problems. (*see* **2005i:62007**)
— *see also* **Coletti, Giulianella, 2005b:03001**
Shkedy, Ziv *see* **Alonso Abad, Ariel et al., 2005i:62153**
Singh, Radhey S. *see* **Mishra, Sant Sharan et al.**
(Slade, Norman A.) *see* **Brown, James H. et al., (2005d:62007)**
(Smarandache, Florentin) *see* **Advances and applications of DSmT for information fusion**
Stern, Julio Michael *see* **Lauretto, Marcelo et al., 2005j:62065**
Strevens, Michael Bayesian confirmation theory: inductive logic, or mere inductive framework? (English summary) **2005g:03007**
Sudderth, William D. *see* **Eaton, Morris L., 2005k:62137**
(Swinburne, Richard) *see* **Bayes's theorem, 2005b:62007**
Taper, Mark L. (*with* Lele, Subhash R.) Dynamical models as paths to evidence in ecology. (English summary) (*see* **2005d:62007**)
— (*with* Lele, Subhash R.) The nature of scientific evidence: a forward-looking synthesis. (English summary) (*see* **2005d:62007**)
— *see also* **Nature of scientific evidence, 2005d:62007**
Tibaldi, Fabián *see* **Alonso Abad, Ariel et al., 2005i:62153**
Turnbull, Bruce W. *see* **Jiang, Wenxin**
Vantaggi, Barbara *see* **Scozzafava, Romano, (2005i:62007)**
Vicig, Paolo *see* **Pelessoni, Renato, 2005k:60011**
Vranas, Peter B. M. Hempel's raven paradox: a lacuna in the standard Bayesian solution. (English summary) **2005c:03037**
Wang, Dabuxilatu (*with* Yasuda, Masami) Some asymptotic properties of point estimation with n-dimensional fuzzy data. (English summary) **2005g:62053**
Wechsler, Sergio *see* **Loschi, Rosangela H., 2005a:60010**
Wong, Hubert (*with* Clarke, Bertrand) Improvement over Bayes prediction in small samples in the presence of model uncertainty. (English and French summaries)
Yasuda, Masami *see* **Wang, Dabuxilatu, 2005g:62053**
Zacks, Shelemyahu *see* **Lauretto, Marcelo et al., 2005j:62065**
Zaffalon, Marco *see* **Antonucci, Alessandro et al., (2005i:62007)**
Zaionc, Marek *see* **Kostrzycka, Zofia, 2005a:03022**
Zanutto, Elaine L. *see* **Hill, Jennifer Lynn et al., (2005m:62005)**
Zbilut, Joseph P. ★ Unstable singularities and randomness. **2005k:37198**

Items listed otherwise than by author

Advances and applications of DSmT for information fusion ★ Advances and applications of DSmT for information fusion.
Bayes's theorem ★ Bayes's theorem. **2005b:62007**
Nature of scientific evidence ★ The nature of scientific evidence. **2005d:62007**

62Bxx Sufficiency and information

62B05 Sufficient statistics and fields

(Beran, Rudolf) *see* **Fraser, Donald A. S.**
(Butler, Ronald W.) *see* **Fraser, Donald A. S.**
Fraser, Donald A. S. Ancillaries and conditional inference. (English summary)
Popeska, Žaneta Sufficient equivalences in a sampling space. (English summary) **2005g:62009**
(Skovgaard, Ib Michael) *see* **Fraser, Donald A. S.**

Items with secondary classifications in 62B05

Al-Mouel, Abdul-Hussein Saber Nested repeated measures model sufficiency and estimation. (English and Chinese summaries) **2005g:62136**
Chen, Shande A class of parameter functions for which the unbiased estimator does not exist. (English summary) **2005j:62047**
Magnac, Thierry Panel binary variables and sufficiency: generalizing conditional logit. (English summary) **2005j:62078**

62B10 Information-theoretic topics [see also 94A17]

Abbas, Ali E. An information theory for preferences. (English summary) (*see* **2005c:62004**)
Abramov, Rafail V. *see* **Haven, Kyle et al.**
del Aguila, Yolanda *see* **Belzunce, Félix et al., 2005c:62009**
Alajaji, Fady (*with* Chen, Po-Ning; Rached, Ziad) Csiszár's cutoff rates for the general hypothesis testing problem. (English summary) **2005e:62009**
Al-Shanfari, Hatem (*with* Hossain, Md. Zakir; Bhatti, Muhammad I.) Model selection in the context of arbitrage pricing theory. (English summary)
Amari, Shun-ichi *see* **Ikeda, Shiro et al., 2005j:62015**
Aryal, Gokarna (*with* Nadarajah, Saralees) Information matrix for beta distributions. (English summary) **2005h:62018**
Aslan, B. (*with* Zech, G.) New test for the multivariate two-sample problem based on the concept of minimum energy. (English summary)
Balakrishnan, Narayanaswamy *see* **Hofmann, Glenn, 2005g:62010**
Bekara, Maïza *see* **Seghouane, Abd-Krim, 2005h:62020**
Belzunce, Félix (*with* Navarro, Jorge; Ruiz Gómez, José María; del Aguila, Yolanda) Some results on residual entropy function. (English summary) **2005c:62009**
Bercher, J.-F. *see* **Vignat, Christophe, 2005b:62019**
van den Berg, Jan (*with* Kaymak, Uzay) On the notion of statistical fuzzy entropy. (*see* **2005i:62007**)
Bhatti, Muhammad I. *see* **Al-Shanfari, Hatem et al.**
Broniatowski, M. Estimation of the Kullback-Leibler divergence. (English summary) **2005b:62014**
Caticha, Ariel Relative entropy and inductive inference. (English summary) (*see* **2005c:62004**)
— (*with* Preuss, Roland) Entropic priors. (English summary) (*see* **2005c:62004**)
— *see also* **Tseng, Chih-Yuan, (2005c:62004)**
Chen, Po-Ning *see* **Alajaji, Fady et al., 2005e:62009**
Dalal, Siddhartha R. Challenges in the information sciences for statisticians. (English summary) (*see* **2005i:62004**)
Domma, Filippo Fisher information and truncated models. (Italian. English and Italian summaries)
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Fan, Xiu Bin *see* **Hong, Jie et al.**
Fang, Gang *see* **Hong, Jie et al.**
Freidlin, Boris *see* **Zheng, Gang[1] et al., 2005j:62016**
Gastwirth, Joseph L. *see* **Zheng, Gang[1] et al., 2005j:62016**
van der Geest, P. A. G. The binomial distribution with dependent Bernoulli trials. (English summary)
Grendar, Marian *see* **Grendar, Marian, Jr., (2005c:62004)**
Grendar, Marian, Jr. (*with* Grendar, Marian) Maximum entropy method with non-linear moment constraints: challenges. (English summary) (*see* **2005c:62004**)
— (*with* Grendar, Marian) Maximum probability/entropy translating of continguous categorical observations into frequencies. (English summary)
Hareter, Dietmar *see* **Viertl, Reinhard**
Haven, Kyle (*with* Majda, Andrew J.; Abramov, Rafail V.) Quantifying predictability through information theory: small sample estimation in a non-Gaussian framework. (English summary)
He, Shu Yuan *see* **Wang, Yan Hua[1] et al., 2005e:62010**
Hingley, P. J. Analytic estimator densities for common parameters under misspecified models. (English summary) **2005d:62013**

Hofmann, Glenn (*with* Balakrishnan, Narayanaswamy) Fisher information in k-records. (English summary) **2005g:62010**
— Comparing the Fisher information in record data and random observations. (English summary) **2005h:62019**
Hong, Jie (*with* Fan, Xiu Bin; Fang, Gang; Lu, Xiao Feng) Information theory analysis of Boolean optimal continuous functions. (Chinese. English and Chinese summaries)
Hossain, Md. Zakir *see* **Al-Shanfari, Hatem et al.**
Ikeda, Shiro (*with* Tanaka, Toshiyuki[2]; Amari, Shun-ichi) Information-geometry framework for analysing belief propagation. (Japanese. English and Japanese summaries) **2005j:62015**
Jha, Purushottam *see* **Varma, Sushama K. et al.**
Kalnishkan, Yu. A. (*with* Vovk, Vladimir G.; Vyugin, Mikhail V.) Loss functions, complexities, and the Legendré transformation. (English summary) **2005b:62016**
Kaymak, Uzay *see* **van den Berg, Jan**, (2005i:62007)
Khrennikov, Andrei Yu. Representation of cognitive information by probability distributions on the space of neural trajectories. (Russian. Russian summary)
Klein, André (*with* Mélard, Guy; Spreij, Peter) On the resultant property of the Fisher information matrix of a vector ARMA process. (English summary) **2005m:62011**
Kontoyiannis, Ioannis (*with* Sezer, Ali Devin) A remark on unified error exponents: hypothesis testing, data compression and measure concentration. (English summary) **2005c:62010**
Lu, Xiao Feng *see* **Hong, Jie et al.**
Luati, Alessandra Maximum Fisher information in mixed state quantum systems. (English summary) **2005m:62012**
Majda, Andrew J. *see* **Haven, Kyle et al.**
Mei, Chang Lin *see* **Wang, Yan Hua[1] et al.**, **2005e:62010**
Mélard, Guy *see* **Klein, André et al.**, **2005m:62011**
Merhav, Neri (*with* Weinberger, Marcelo J.) On universal simulation of information sources using training data. (English summary) **2005b:62018**
— Achievable key rates for universal simulation of random data with respect to a set of statistical tests. (English summary) **2005b:62017**
Nadarajah, Saralees Information matrix for logistic distributions. (English summary) **2005g:62011**
— (*with* Zografos, Konstantinos) Expressions for Rényi and Shannon entropies for bivariate distributions. (English summary)
— *see also* **Aryal, Gokarna**, **2005h:62018**
Nahar, Syfun *see* **Rahman, Mohammad Shafiqur**
Navarro, Jorge *see* **Belzunce, Félix et al.**, **2005c:62009**
Ninomiya, Yoshiyuki Information criterion for Gaussian change-point model. (English summary) **2005k:62009**
Preuss, Roland *see* **Caticha, Ariel**, (2005c:62004)
Pykh, Yu. A. Construction of entropy characteristics on the basis of Lyapunov energy functions. (Russian) **2005k:62010**
Rached, Ziad *see* **Alajaji, Fady et al.**, **2005e:62009**
Rahman, Mohammad Shafiqur (*with* Nahar, Syfun) Generalized model selection criterion. (English summary)
van Rooy, Robert Utility, informativity and protocols. (English summary) **2005m:62013**
Ruiz Gómez, José Maria *see* **Belzunce, Félix et al.**, **2005c:62009**
Schuurmans, Dale *see* **Wang, Shaojun**, **2005i:62015**
Seghouane, Abd-Krim (*with* Bekara, Maïza) A small sample model selection criterion based on Kullback's symmetric divergence. (English summary) **2005h:62020**
Sezer, Ali Devin *see* **Kontoyiannis, Ioannis**, **2005c:62010**
Singh, Sandeep *see* **Varma, Sushama K. et al.**
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Tanaka, Toshiyuki[2] *see* **Ikeda, Shiro et al.**, **2005j:62015**
Topsøe, Flemming Information theory and complexity in probability and statistics. (*see* **2005i:62007**)
Tseng, Chih-Yuan (*with* Caticha, Ariel) Maximum entropy approach to the theory of simple fluids. (English summary) (*see* **2005c:62004**)
Varma, Sushama K. (*with* Singh, Sandeep; Jha, Purushottam) Measures of three and four parametric entropy and directed divergence. (English summary)
Viertl, Reinhard (*with* Hareter, Dietmar) Fuzzy information and stochastics. (English summary)
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Vovk, Vladimir G. *see* **Kalnishkan, Yu. A. et al.**, **2005b:62016**
Vyugin, Mikhail V. *see* **Kalnishkan, Yu. A. et al.**, **2005b:62016**
Wang, Shaojun (*with* Schuurmans, Dale) Learning continuous latent variable models with Bregman divergences. (English summary) **2005i:62015**
Wang, Yan Hua[1] (*with* He, Shu Yuan; Mei, Chang Lin) The Fisher information in left truncated data. (Chinese. English and Chinese summaries) **2005e:62010**
Weinberger, Marcelo J. *see* **Merhav, Neri**, **2005b:62018**
Ye, Ci Nan Fisher information matrix for the LBVW distribution. (Chinese. English and Chinese summaries) **2005b:62020**
Zech, G. *see* **Aslan, B.**
Zheng, Gang[1] (*with* Freidlin, Boris; Gastwirth, Joseph L.) Using Kullback-Leibler information for model selection when the data-generating model is unknown: applications to genetic testing problems. (English summary) **2005j:62016**
Zografos, Konstantinos *see* **Nadarajah, Saralees**

Items with secondary classifications in 62B10

Abellán, Joaquín (*with* Moral, Serafín) Range of entropy for credal sets. (*see* **2005i:62007**)
Abul-Magd, A. Y. Non-extensive random matrix theory—a bridge connecting chaotic and regular dynamics. (English summary) **2005f:82109**
Aczél, János Entropies old and new (and both new and old) and their characterizations. (English summary) (*see* **2005c:62004**)
— The associativity equation re-revisited. (English summary) (*see* **2005c:62004**)
Afshartous, David (*with* de Leeuw, Jan) A predictive density approach to predicting a future observable in multilevel models. (English summary)
Alhakim, Abbas On the eigenvalues and eigenvectors of an overlapping Markov chain. (English summary) **2005b:60182**
Almeida, Fernanda R. Zanforlin *see* **Louzada-Neto, Francisco et al.**
Almeida, Jonas S. *see* **Vinga, Susana**
Alvo, M. *see* **Ratnarajah, T. et al.**, **2005m:94017**
Anan′ev, B. I. On informational sets for multistage statistically uncertain systems. (English summary) **2005a:93149**
Anastassiou, George A. Basic optimal approximation of Csiszar's f-divergence. (English summary) **2005m:60032**
— Higher order optimal approximation of Csiszar's f-divergence. (English summary) **2005j:60035**
Ando, Tomohiro (*with* Konishi, Sadanori) Neural network nonlinear regression modeling and information criteria. (English summary) (*see* **2005a:62014**)
Andrade, Christiano Santos *see* **Louzada-Neto, Francisco et al.**
Anstreicher, Kurt M. (*with* Lee, Jon[2]) A masked spectral bound for maximum-entropy sampling. (English summary) (*see* **2005f:62009**)
Aryal, Gokarna (*with* Nadarajah, Saralees) On the skew Laplace distribution. (English summary)
Asmussen, Søren (*with* Kroese, Dirk P.; Rubinstein, Reuven Y.) Heavy tails, importance sampling and cross-entropy. (English summary) **2005i:62028**
Asraf, Daniel E. (*with* Gustafsson, Mats G.) An analytical series expansion solution to the problem of noncoherent detection. (English summary)
Aubin, Jane E. *see* **Nagarajan, Radhakrishnan et al.**
Aulogiaris, G. (*with* Zografos, Konstantinos) A maximum entropy characterization of symmetric Kotz type and Burr multivariate distributions. (English summary) **2005i:62033**
Babu, Gutti Jogesh (*with* Boyarsky, Abraham; Chaubey, Yogendra P.; Góra, Paweł) A new statistical method for filtering and entropy estimation of a chaotic map from noisy data. (English summary) **2005j:37136**
Balakrishnan, Narayanaswamy *see* **Ng, H. K. T. et al.**
Baldi, Pierre A computational theory of surprise. (English summary) **2005d:94048**
Bar-Yossef, Ziv (*with* Jayram, T. S.; Kumar, S. Ravi; Sivakumar, Dandapani) An information statistics approach to data stream and communication complexity. (English summary) **2005b:68099**
Bashkirov, A. G. On maximum entropy principle, superstatistics, power-law distribution and Renyi parameter. (English summary) **2005e:82001**
Bearse, Peter (*with* Bozdogan, Hamparsum) Multivariate regressions, genetic algorithms, and information complexity: a three way hybrid. (English summary) (*see* **2005b:62010**)
Bekara, Maïza *see* **Seghouane, Abd-Krim et al.**, **2005d:62016**
Berlinet, Alain (*with* Brunel, Elodie) Kullback-Leibler optimization of density estimates. (English summary) **2005b:62080**
Biswas, Atanu (*with* Dewanji, Anup) Scheduling optimal examination times in a simple illness-death model. (English summary)
Blower, David J. An easy derivation of logistic regression from the Bayesian and maximum entropy perspective. (English summary) (*see* **2005c:62004**)
Boyarsky, Abraham *see* **Babu, Gutti Jogesh et al.**, **2005j:37136**
Bozdogan, Hamparsum *see* **Taper, Mark L.**, **2005g:62008** *and* **Bearse, Peter**, (2005b:62010)
Braess, Dietrich (*with* Forster, Jürgen; Sauer, Thomas; Simon, Hans Ulrich) How to achieve minimax expected Kullback-Leibler distance from an unknown finite distribution. (English summary) (*see* **2005a:68003**)
Bremner, Alexandra P. (*with* Taplin, Ross H.) Performance of localized regression tree splitting criteria on data with discontinuities. (English summary)
Brunel, Elodie *see* **Berlinet, Alain**, **2005b:62080**
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Cachin, Christian An information-theoretic model for steganography. (English summary) **2005e:94117**
Cai, David *see* **Majda, Andrew J. et al.**, **2005a:94026**
Cavanaugh, Joseph E. Criteria for linear model selection based on Kullback's symmetric divergence. (English summary)
Chan, Ping Shing *see* **Ng, H. K. T. et al.**
Chang, Hua-Hua *see* **Yi, Qing**
Chaubey, Yogendra P. *see* **Babu, Gutti Jogesh et al.**, **2005j:37136**
Chen, Chih-Rung (*with* Wang, Lih-Chung) Fixed-sample optimal non-orthogonal estimating functions in the presence of nuisance parameters. (English summary) **2005j:62046**
Chernoff, Herman Conservative bounds on extreme P-values for testing the equality of two probabilities based on very large sample sizes. (English summary) (*see* **2005i:62005**)
Claeskens, Gerda *see* **Hjort, Nils Lid**, **2005a:62021**
Coppi, Renato (*with* D'Urso, Pierpaolo; Giordani, Paolo[1]) Informational paradigm and entropy-based dynamic clustering in a complete fuzzy framework. (*see* **2005i:62007**)
Cressie, Noel (*with* Richardson, Sylvia; Jaussent, Isabelle) Ecological bias: use of maximum-entropy approximations. (English summary)
Dai, Li Yan (*with* Shi, Song Jiao) A new method to deduce the information state in the output feedback control for stochastic systems. (Chinese. English and Chinese summaries)
Damien, Paul *see* **Walker, Stephen G. et al.**, **2005k:62018**
Dasu, Tamraparni *see* **Oakes, David**, (2005i:62004)
DelSole, Timothy Predictability and information theory. I. Measures of predictability. (English summary) **2005g:86015**
Demchuk, Eugene *see* **Singh, Harshinder et al.**, **2005a:62095** *and* **Misra, Neeraj et al.**, **2005i:62084**
Dëmin, N. S. (*with* Safronova, Irina; Rozhkova, Svetlana) About structure of Shannon information amount for joint filtering and extrapolation problem by continuous-discrete memory observations. (English and Lithuanian summaries) **2005g:94033**
Deng, Minghua *see* **Yan, Xiting et al.**
Deshmukh, S. C. *see* **Nabar, S. P.**
Devetak, Igor (*with* Winter, Andreas) Distilling common randomness from bipartite quantum states. (English summary)
Dewanji, Anup *see* **Biswas, Atanu**
Dougherty, Edward R. *see* **Zhou, Xiaobo et al.**

Dragomir, Sever Silvestru New inequalities for convex functions with applications for the n-entropy of a discrete random variable.
D'Urso, Pierpaolo *see* **Coppi, Renato et al.**, (2005i:62007)
Ebrahimi, Nader (*with* Soofi, Ehsan S.) Information functions for reliability. (English summary) (*see* **2005a:62018**)
— (*with* Soofi, Ehsan S.; Zahedi, Hassan) Information properties of order statistics and spacings. (English summary) **2005a:94030**
Efron, Bradley The estimation of prediction error: covariance penalties and cross-validation. (English summary)
Emond, Mary J. *see* **Nan, Bin et al.**, 2005c:62032
Emura, Sei *see* **Yamada, Masahiko et al.**
(Erickson, Gary J.) *see* **Bayesian inference and maximum entropy methods in science and engineering**, 2005c:62004
Fan, Juanjuan *see* **Su, Xiaogang et al.**
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Fisher, John W., III *see* **Learned-Miller, Erik G.**
Fleury, Gilles Alain *see* **Seghouane, Abd-Krim et al.**, 2005d:62016
Forster, Jürgen *see* **Braess, Dietrich et al.**, (2005a:68003)
Freeland, R. K. (*with* McCabe, B. P. M.) Analysis of low count time series data by Poisson autoregression. (English summary) **2005h:62241**
Fung, Wing Kam *see* **Yan, Xiting et al.**
Gibilisco, Paolo (*with* Isola, Tommaso) On the characterisation of paired monotone metrics. (English summary) **2005e:81026**
Giordani, Paolo[1] *see* **Coppi, Renato et al.**, (2005i:62007)
Girardin, Valerie (*with* Limnios, Nikolaos) On the entropy for semi-Markov processes. (English summary) **2005a:60141**
— Entropy maximization for Markov and semi-Markov processes. (English summary) **2005a:60117**
— On the different extensions of the ergodic theorem of information theory. (English summary) (*see* **2005f:60007**)
Glickman, Mark E. (*with* Jensen, Shane T.) Adaptive paired comparison design. (English summary)
Godavarti, Mahesh (*with* Hero, A. O., III) Convergence of differential entropies. (English summary) **2005a:94031**
Golubtsov, P. V. (*with* Lyubetskiĭ, V. A.) The informational structure of dynamic games and the volume of information accessible to players. (Russian. English summary) (*see* **2005f:03002**)
Góra, Paweł *see* **Babu, Gutti Jogesh et al.**, 2005j:37136
Gore, Jeff (*with* Ritort, Felix; Bustamante, Carlos) Bias and error in estimates of equilibrium free-energy differences from nonequilibrium measurements. (English summary) **2005g:82106**
Gottvald, Aleš Exponential family and inverse problems. On metamorphoses of probability theory. (English summary) **2005a:60009**
Grassberger, Peter *see* **Kraskov, Alexander et al.**
Green, Matthew (*with* Zoubir, Abdelhak M.) Selection of a time-varying quadratic Volterra model using a wavelet packet basis expansion. (English summary) **2005d:94029**
Grendar, Marian *see* **Grendar, Marian, Jr.**, **2005e:60044** *and* (**2005c:62004**)
Grendar, Marian, Jr. (*with* Grendar, Marian) I-projection variant of Chernoff's bound. (English summary) **2005e:60044**
— (*with* Grendar, Marian) Maximum probability and maximum entropy methods: Bayesian interpretation. (English summary) (*see* **2005c:62004**)
— Asymptotic identity of μ-projections and I-projections. (English summary) **2005m:62111**
Gu, Chong Model diagnostics for smoothing spline ANOVA models. (English and French summaries)
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Harman, Radoslav Lower bounds on efficiency ratios based on Φ_p-optimal designs. (English summary) **2005j:62155**
— Minimal efficiency of designs under the class of orthogonally invariant information criteria. (English summary) **2005h:62198**
Harremoës, Peter (*with* Vignat, Christophe) A Nash equilibrium related to the Poisson channel. (English summary) **2005k:91046**
— (*with* Ruzankin, Pavel S.) Rate of convergence to Poisson law in terms of information divergence. (English summary)
He, Shu Yuan *see* **Wang, Yan Hua**[1] **et al.**, 2005b:62197
Hennig, Christian Breakdown points for maximum likelihood estimators of location-scale mixtures. (English summary) **2005h:62100**
Hero, A. O., III *see* **Godavarti, Mahesh**, 2005a:94031
Hjort, Nils Lid (*with* Claeskens, Gerda) Frequentist model average estimators. (English summary) **2005a:62021**
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Hołyst, Janusz A. *see* **Urbanowicz, Krzysztof**, 2005g:91159
Hössjer, Ola Information and effective number of meioses in linkage analysis. (English summary) **2005i:92008**
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Iwase, Kōsei *see* **Kawamura, Toshihiko**, 2005b:62032
Jacquet, Philippe (*with* Szpankowski, Wojciech) Markov types and minimax redundancy for Markov sources. (English summary) **2005f:94061**
Janke, Wolfhard (*with* Johnston, Desmond A.; Kenna, R.) Information geometry and phase transitions. (English summary) **2005a:82034**
Janssen, Arnold Asymptotic relative efficiency of tests at the boundary of regular statistical models. (English summary) **2005h:62272**
Jaussent, Isabelle *see* **Cressie, Noel et al.**
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Jenčová, Anna Geodesic distances on density matrices. (English summary) **2005d:81055**
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John, A. M. *see* **Watkins, A. J.**
Johnson, Oliver A conditional entropy power inequality for dependent variables. (English summary)
Johnston, Desmond A. *see* **Janke, Wolfhard et al.**, 2005a:82034
Kaniadakis, Giorgio (*with* Lissia, Marcello; Scarfone, A. M.) Deformed logarithms and entropies. (English summary) **2005e:94048**
Kapetanios, George The asymptotic distribution of the cointegration rank estimator under the Akaike information criterion. (English summary) **2005k:62145**
Kawamura, Toshihiko (*with* Iwase, Kōsei) Characterization of 2-variate distributions derived from 2-variate normal distribution based on maximum entropy method. (Japanese. English summary) **2005b:62032**
Kenna, R. *see* **Janke, Wolfhard et al.**, 2005a:82034
Khocholava, V. V. *see* **Mikadze, I. S.**, 2005k:94014
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Kitagawa, Genshiro Signal extraction and knowledge discovery based on statistical modeling. (English summary) (*see* **2005a:68004**)
Kleeman, Richard *see* **Majda, Andrew J. et al.**, 2005a:94026
Klein, André (*with* Mélard, Guy) An algorithm for computing the asymptotic Fisher information matrix for seasonal SISO models. (English summary)
— (*with* Spreij, Peter) On the solution of Stein's equation and Fisher's information matrix of an ARMAX process. (English summary) **2005g:62158**
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Kong, Augustine *see* **Nicolae, Dan L.**, 2005e:62151
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Kraskov, Alexander (*with* Stögbauer, Harald; Grassberger, Peter) Estimating mutual information. (English summary)
Kroese, Dirk P. *see* **Rubinstein, Reuven Y.**, **2005c:90001** *and* **Asmussen, Søren et al.**, 2005i:62028
Kulkarni, Sanjeev R. (*with* Viswanath, Pramod) A deterministic approach to throughput scaling in wireless networks. (English summary)
Kumar, Pranesh *see* **Taneja, Inder Jeet**, 2005g:94031
Kumar, S. Ravi *see* **Bar-Yossef, Ziv et al.**, 2005b:68099
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Lathika, P. *see* **Muralidharan, Kunnumal**
Learned-Miller, Erik G. (*with* Fisher, John W., III) ICA using spacings estimates of entropy. (English summary)
Lee, Jon[2] *see* **Anstreicher, Kurt M.**, (2005f:62009)
Leeb, Hannes (*with* Pötscher, Benedikt M.) Model selection and inference: facts and fiction. (English summary)
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Lenk, Peter *see* **Walker, Stephen G. et al.**, 2005k:62018
Lenzi, E. K. *see* **Mendes, Renio S. et al.**, 2005f:82004
Levy, Bernard C. (*with* Nikoukhah, Ramine) Robust least-squares estimation with a relative entropy constraint. (English summary) **2005d:62019**
Li, Chun Hong (*with* Zhang, Zhong Zhan) Identification of the highest dose level for no increased toxicity response. (Chinese. English and Chinese summaries)
Li, Lei[2] (*with* Speed, Terence P.) Deconvolution of sparse positive spikes. (English summary)
Li, Xing Si (*with* Pan, Shaohua[2]) Duality for entropy optimization and its applications. (English summary) **2005h:90156**
Limnios, Nikolaos *see* **Girardin, Valerie**, 2005a:60141
Lissia, Marcello *see* **Kaniadakis, Giorgio et al.**, 2005e:94048
Lopes, C. A. *see* **Mendes, Renio S. et al.**, 2005f:82004
Loredo, Thomas J. Bayesian adaptive exploration. (English summary) (*see* **2005c:62004**)
Louzada-Neto, Francisco (*with* Andrade, Christiano Santos; Almeida, Fernanda R. Zanforlin) On the non-identifiability problem arising on the poly-Weibull model. (English summary)
Lyubetskiĭ, V. A. *see* **Golubtsov, P. V.**, (2005f:03002)
Majda, Andrew J. (*with* Kleeman, Richard; Cai, David) A mathematical framework for quantifying predictability through relative entropy. (English summary) **2005a:94026**
Makarov, A. A. (*with* Simonova, G. I.) Statistical model of diurnal oscillations of the speed of data transfer to computer network users.
Malacarne, L. C. *see* **Mendes, Renio S. et al.**, 2005f:82004
Marcano, J. G. (*with* Morán, M. D.) The Arov-Grossman model and Burg's entropy. (English summary) **2005h:42017**
Maybank, Stephen J. Fisher information and model selection for projective transformations of the line. (English summary) **2005c:62112**
McCabe, B. P. M. *see* **Freeland, R. K.**, 2005h:62241
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Mélard, Guy *see* **Klein, André**
Mendes, Renio S. (*with* Lopes, C. A.; Lenzi, E. K.; Malacarne, L. C.) Variational methods in nonextensive Tsallis statistics: a comparative study. (English summary) **2005f:82004**
Menicucci, N. C. *see* **Prasad, Sudhakar**, 2005e:94051
Merz, Joachim Kumulation von Mikrodaten—konzeptionelle Grundlagen und ein Vorschlag zur Realisierung. (German summary) [Accumulation of microdata—conceptual foundations and a proposal towards realization]
Mikadze, I. S. (*with* Khocholava, V. V.) On a model of information transmission over an unreliable communication channel. (Russian. Russian summary) **2005k:94014**
Misra, Neeraj (*with* Singh, Harshinder; Demchuk, Eugene) Estimation of the entropy of a multivariate normal distribution. (English summary) **2005i:62084**
— *see also* **Singh, Harshinder et al.**, 2005a:62095
Mitter, Sanjoy K. (*with* Newton, Nigel J.) A variational approach to nonlinear estimation. (English summary) **2005a:62078**
Mohtashami Borzadaran, G. R. *see* **Pasha, Einollah et al.**
Moral, Serafín *see* **Abellán, Joaquín**, (2005i:62007)

Morales, Domingo (*with* Pardo, Leandro; Vajda, Igor) Digitalization of observations permits efficient estimation in continuous models. **2005k:62068**
Morán, M. D. *see* **Marcano, J. G., 2005h:42017**
Moscarini, Giuseppe Limited information capacity as a source of inertia. (English summary) **2005b:91187**
Mukhopadhyay, Parimal Information contained in an estimating function: a review. (English summary)
Muliere, Pietro *see* **Gutiérrez-Peña, Eduardo, 2005b:62058**
Muralidharan, Kunnumal (*with* Lathika, P.) A note on Fisher information matrix of Weibull distribution.
Nabar, S. P. (*with* Deshmukh, S. C.) Two-piece logistic distribution. (English summary)
Nadarajah, Saralees Exponentiated beta distributions. (English summary)
— *see also* **Aryal, Gokarna**
Nagarajan, Radhakrishnan (*with* Aubin, Jane E.; Peterson, Charlotte A.) Modeling genetic networks from clonal analysis. (English summary)
Nan, Bin (*with* Emond, Mary J.; Wellner, Jon A.) Information bounds for Cox regression models with missing data. (English summary) **2005c:62032**
Nehring, Klaus The veil of public ignorance. (English summary)
Neuenschwander, Daniel ★ Probabilistic and statistical methods in cryptology. **2005j:94028**
Newton, Nigel J. *see* **Mitter, Sanjoy K., 2005a:62078**
Ng, H. K. T. (*with* Chan, Ping Shing; Balakrishnan, Narayanaswamy) Optimal progressive censoring plans for the Weibull distribution. (English summary)
N'Guessan, Assi (*with* Langrand, Claude) A Schur complement approach for computing subcovariance matrices arising in a road safety measure modelling. (English summary) **2005m:15014**
Nicolae, Dan L. (*with* Kong, Augustine) Measuring the relative information in allele-sharing linkage studies. (English and French summaries) **2005e:62151**
Nikoukhah, Ramine *see* **Levy, Bernard C., 2005d:62019**
Oakes, David (*with* Dasu, Tamraparni) Inference for the proportional mean residual life model. (English summary) (*see* **2005i:62004**)
Oda, Yasutomo *see* **Yamada, Masahiko et al.**
O'Sullivan, Joseph A. *see* **Schmid, Natalia A.**
Otwinowski, Zbyszek *see* **Rowicka, Małgorzata, (2005c:62004)**
Pan, Hong *see* **Wang, De Hui et al., 2005g:62057**
Pan, Shaohua[2] *see* **Li, Xing Si, 2005h:90156**
Paninski, Liam Estimating entropy on m bins given fewer than m samples. (English summary) **2005j:94017**
Pardo, Leandro *see* **Pardo Llorente, Julio Ángel et al., 2005h:62162** *and* **Morales, Domingo et al., 2005k:62068**
Pardo, María del Carmen *see* **Pardo Llorente, Julio Ángel et al., 2005h:62162**
Pardo Llorente, Julio Ángel (*with* Pardo, Leandro; Pardo, María del Carmen; Zografos, Konstantinos) An exploratory canonical analysis approach for multinomial populations based on the φ-divergence measure. (English summary) **2005h:62162**
Park, Sangun (*with* Zheng, Gang[1]) Equal Fisher information in order statistics. (English summary) **2005f:62022**
Pasha, Einollah (*with* Khodabin, M.; Mohtashami Borzadaran, G. R.) Testing statistical hypothesis via Shannon's entropy in exponential families. (English summary)
Pearn, Wen Lea *see* **Wang, Kuo-Hsiung et al.**
Pennini, F. (*with* Plastino, Angel Luis) Power-law distributions and Fisher's information measure. (English summary) **2005a:82007**
Peterson, Charlotte A. *see* **Nagarajan, Radhakrishnan et al.**
Pfister, Charles E. (*with* Sullivan, Wayne G.) Rényi entropy, guesswork moments, and large deviations. (English summary) **2005f:94050**
Pintelon, Rik *see* **Schoukens, Johan et al.**
Plastino, Angel Luis *see* **Pennini, F., 2005a:82007**
Popescu, Theodor D. Robust change detection method using Akaike information criterion for signal segmentation. (*see* **2005i:62007**)
Pötscher, Benedikt M. *see* **Leeb, Hannes**
Prasad, Sudhakar (*with* Menicucci, N. C.) Fisher information with respect to cumulants. (English summary) **2005e:94051**
Pronzato, Luc (*with* Thierry, É.; Wolsztynski, É.) Minimum entropy estimation in semi-parametric models: a candidate for adaptive estimation? (English summary) (*see* **2005f:62009**)
Qian, Minping *see* **Yan, Xiting et al.**
Ratnarajah, T. (*with* Vaillancourt, Rémi; Alvo, M.) Complex random matrices and the capacity of a Rician channel. (Russian. Russian summary) **2005m:94017**
Řeháček, Jaroslav (*with* Hradil, Z.) MaxEnt assisted MaxLik quantum tomography. (English summary) **2005e:81031**
Richardson, Sylvia *see* **Cressie, Noel et al.**
Ritort, Felix *see* **Gore, Jeff et al., 2005g:82106**
Rolain, Y. *see* **Schoukens, Johan et al.**
Rowicka, Małgorzata (*with* Otwinowski, Zbyszek) Application of maximum entropy principle to modeling torsion angle probability distribution in proteins. (English summary) (*see* **2005c:62004**)
Rozhkova, Svetlana *see* **Dëmin, N. S. et al., 2005g:94033**
Rubinstein, Reuven Y. (*with* Kroese, Dirk P.) ★ The cross-entropy method. **2005c:90001**
— *see also* **Asmussen, Søren et al., 2005i:62028**
Rubio Sanz, María Teresa *see* **Vicente Perdiz, Juan, 2005f:91050**
Ruzankin, Pavel S. *see* **Harremoës, Peter**
Ryabko, B. Ya. (*with* Stognienko, V. S.; Shokin, Yu. I.) An adaptive χ^2 test for the discrimination of similar hypotheses with a large number of classes and its application to some cryptography problems. (Russian. Russian summary) **2005j:62041**
Safronova, Irina *see* **Dëmin, N. S. et al., 2005g:94033**
Sauer, Thomas *see* **Braess, Dietrich et al., (2005a:68003)**
Scarfone, A. M. *see* **Kaniadakis, Giorgio et al., 2005e:94048**
Schmid, Natalia A. (*with* O'Sullivan, Joseph A.) Performance prediction methodology for biometric systems using a large deviations approach. (English summary)
Schoukens, Johan (*with* Rolain, Y.; Pintelon, Rik) Modified AIC rule for model selection in combination with prior estimated noise models. (English summary)
Seghouane, Abd-Krim (*with* Bekara, Maïza; Fleury, Gilles Alain) A criterion for model selection in the presence incomplete data based on Kullback's symmetric divergence. (English summary) **2005d:62016**
Shen, Xiaotong (*with* Huang, Hsin-Cheng; Ye, Jimmy) Adaptive model selection and assessment for exponential family distributions. (English summary)
Shi, Peide (*with* Tsai, Chih-Ling) A joint regression variable and autoregressive order selection criterion. (English summary) **2005j:62186**
Shi, Song Jiao *see* **Dai, Li Yan**
Shokin, Yu. I. *see* **Ryabko, B. Ya. et al., 2005j:62041**
Shulman, Nadav (*with* Feder, Meir) The uniform distribution as a universal prior. (English summary) **2005e:94091**
Siegmund, David O. Model selection in irregular problems: applications to mapping quantitative trait loci. (English summary)
Simon, Hans Ulrich *see* **Braess, Dietrich et al., (2005a:68003)**
Simonelli, Maria Rosaria Indeterminacy in portfolio selection. (English summary) **2005f:91054**
Simonova, G. I. *see* **Makarov, A. A.**
Singh, Harshinder (*with* Misra, Neeraj; Hnizdo, Vladimir; Fedorowicz, Adam; Demchuk, Eugene) Nearest neighbor estimates of entropy. (English summary) **2005a:62095**
— *see also* **Misra, Neeraj et al., 2005i:62084**
Sivakumar, Dandapani *see* **Bar-Yossef, Ziv et al., 2005b:68099**
Sivia, D. S. Some thoughts on correlated noise. (English summary) (*see* **2005c:62004**)
Snijders, Tom A. B. Explained variation in dynamic network models. (English and French summaries)
Solé, Ricard V. (*with* Valverde, Sergi) Information theory of complex networks: on evolution and architectural constraints. (English summary) **2005k:94011**
Soofi, Ehsan S. *see* **Ebrahimi, Nader et al., 2005a:94030** *and* **(2005a:62018)**
Speed, Terence P. *see* **Li, Lei[2]**
Spreij, Peter *see* **Klein, André, 2005g:62158**
Stögbauer, Harald *see* **Kraskov, Alexander et al.**
Stognienko, V. S. *see* **Ryabko, B. Ya. et al., 2005j:62041**
Su, Xiaogang (*with* Wang, Morgan; Fan, Juanjuan) Maximum likelihood regression trees. (English summary)
Sullivan, Wayne G. *see* **Pfister, Charles E., 2005f:94050**
Szpankowski, Wojciech *see* **Jacquet, Philippe, 2005f:94061**
Taneja, Inder Jeet (*with* Kumar, Pranesh) Relative information of type s, Csiszár's f-divergence, and information inequalities. (English summary) **2005g:94031**
Taper, Mark L. Model identification from many candidates. (English summary) **2005g:62008**
Taplin, Ross H. *see* **Bremner, Alexandra P.**
Thierry, É. *see* **Pronzato, Luc et al., (2005f:62009)**
(Tribus, Myron) *see* **Bayesian inference and maximum entropy methods in science and engineering, 2005c:62004**
Tsai, Chih-Ling *see* **Shi, Peide, 2005j:62186**
Uchida, Osamu Maximum generating rate of variable-length Markov random sequences. (English summary) **2005a:94041**
Urbanowicz, Krzysztof (*with* Hołyst, Janusz A.) Investment strategy due to the minimization of portfolio noise level by observations of coarse-grained entropy. (English summary) **2005g:91159**
Vaillancourt, Rémi *see* **Ratnarajah, T. et al., 2005m:94017**
Vajda, Igor Asymptotic laws for stochastic disparity statistics. (English summary) **2005a:62118**
— *see also* **Morales, Domingo et al., 2005k:62068**
Valverde, Sergi *see* **Solé, Ricard V., 2005k:94011**
Vasconcelos, Nuno On the efficient evaluation of probabilistic similarity functions for image retrieval. (English summary) **2005e:68038**
(Verdinelli, Isabella) *see* **Taper, Mark L., 2005g:62008**
Vicente Perdiz, Juan (*with* Rubio Sanz, María Teresa) Geometry of inequality. (Spanish. Spanish summary) **2005f:91050**
Vignat, Christophe *see* **Harremoës, Peter, 2005k:91046**
Vinga, Susana (*with* Almeida, Jonas S.) Rényi continuous entropy of DNA sequences. (English summary)
Viswanath, Pramod *see* **Kulkarni, Sanjeev R.**
Walker, Stephen G. Bayesian consistency for a class of regression problems. (English summary) **2005k:62017**
— (*with* Damien, Paul; Lenk, Peter) On priors with a Kullback-Leibler property. (English summary) **2005k:62018**
Wang, De Hui (*with* Zhao, Shi Shun; Pan, Hong) Statistics inferences of the number of psychological state under entropy loss function. (Chinese. English and Chinese summaries) **2005g:62057**
Wang, Kuo-Hsiung (*with* Wang, Tsung-Yin; Pearn, Wen Lea) Maximum entropy analysis to the N policy $M/G/1$ queueing system with server breakdowns and general startup times. (English summary)
Wang, Lih-Chung *see* **Chen, Chih-Rung, 2005j:62046**
Wang, Morgan *see* **Su, Xiaogang et al.**
Wang, Tsung-Yin *see* **Wang, Kuo-Hsiung et al.**
Wang, Xiaodong[2] *see* **Zhou, Xiaobo et al.**
Wang, Yan Hua[1] (*with* He, Shu Yuan; Mei, Chang Lin) Fisher information for censored data from location scale families. (Chinese. English and Chinese summaries) **2005b:62197**
Wang, Yuedong Model selection. (*see* **2005g:62004**)
(Wasserman, Larry) *see* **Taper, Mark L., 2005g:62008**
Watkins, A. J. (*with* John, A. M.) On the expected Fisher information for the Weibull distribution with type I censored data. (English summary)
Wellner, Jon A. *see* **Nan, Bin et al., 2005c:62032**
Winter, Andreas *see* **Devetak, Igor**
Wolsztynski, É. *see* **Pronzato, Luc et al., (2005f:62009)**
Wynn, Henry P. Maximum entropy sampling and general equivalence theory. (English summary) **2005g:62023**
Xu, Li Mei (*with* Zeng, Lin Rui) The expected value of sampling information for a linear decision problem on two actions under the Γ-P model. (Chinese. English and Chinese

summaries) **2005g:90067**

Yamada, Masahiko (*with* Yamashita, Tomoko; Oda, Yasutomo; Emura, Sei; Yamashiro, Seiji; Koizumi, Shunzo) Nonlinear measures of heart beat intervals differ in female patients with chest pain. (English summary)

Yamano, Takuya On a simple derivation of a family of nonextensive entropies from information content. (English summary)

Yamashiro, Seiji *see* **Yamada, Masahiko et al.**

Yamashita, Tomoko *see* **Yamada, Masahiko et al.**

Yan, Xiting (*with* Deng, Minghua; Fung, Wing Kam; Qian, Minping) Detecting differentially expressed genes by relative entropy. (English summary)

Ye, Jimmy *see* **Shen, Xiaotong et al.**

Yi, Qing (*with* Chang, Hua-Hua) α-stratified CAT design with content blocking. (English summary)

Yin, Xiangrong Canonical correlation analysis based on information theory. (English summary) **2005c:62106**

Zahedi, Hassan *see* **Ebrahimi, Nader et al., 2005a:94030**

Zeng, Lin Rui *see* **Xu, Li Mei, 2005g:90067**

(Zhai, Yuxiang) *see* **Bayesian inference and maximum entropy methods in science and engineering, 2005c:62004**

Zhang, Zhong Zhan *see* **Li, Chun Hong**

Zhao, Shi Shun *see* **Wang, De Hui et al., 2005g:62057**

Zheng, Gang[1] Some remarks on the Fisher information in ranked set samples. (English summary) **2005a:62037**

— *see also* **Park, Sangun, 2005f:62022**

Zhou, Xiaobo (*with* Wang, Xiaodong[2]; Dougherty, Edward R.) Gene selection using logistic regressions based on AIC, BIC and MDL criteria. (English summary)

Zografos, Konstantinos *see* **Pardo Llorente, Julio Ángel et al., 2005h:62162** *and* **Aulogiaris, G., 2005i:62033**

Zoubir, Abdelhak M. *see* **Green, Matthew, 2005d:94029**

Items listed otherwise than by author

Bayesian inference and maximum entropy methods in science and engineering ★ Bayesian inference and maximum entropy methods in science and engineering. **2005c:62004**

Jackson Hole, WY ★ Bayesian inference and maximum entropy methods in science and engineering. **2005c:62004**

Lecture Notes in Computer Science *see* **Neuenschwander, Daniel, 2005j:94028**

62B15 Theory of statistical experiments

An, Hong-zhi *see* **Li, Hui**[8] **et al., 2005g:62012**

Kang, Ho-Seog *see* **Park, Sung Hyun et al., 2005a:62025**

Kang, Kee-Hoon *see* **Park, Sung Hyun et al., 2005a:62025**

Li, Hui[8] (*with* An, Hong-zhi; Wu, Guo-fu) An efficient algorithm for the optimal market timing over two stocks. (English summary) **2005g:62012**

Liau, Pen-Hwang Residuals in minimal resolution IV designs. (English summary) **2005b:62021**

Norberg, E. On filtered experiments and the information contained in likelihood ratios. (English summary) **2005i:62016**

Park, Sung Hyun (*with* Kang, Ho-Seog; Kang, Kee-Hoon) Measures for stability of slope estimation on the second order response surface and equally-stable slope rotatability. (English summary) **2005a:62025**

Wu, Guo-fu *see* **Li, Hui**[8] **et al., 2005g:62012**

Items with secondary classifications in 62B15

Carrière, K. C. *see* **Mandal, Saumendranath et al.**

Grigelionis, B. On information processes in statistical experiments with distributed observations. (English summary) **2005b:60088**

Hingley, P. J. Analytic estimator densities for common parameters under misspecified models. (English summary) **2005d:62013**

Jähnisch, Michael (*with* Nussbaum, Michael) Asymptotic equivalence for a model of independent non identically distributed observations. (English summary) **2005b:62085**

Kurata, Hiroshi Inequalities associated with intra-inter-class correlation matrices. (English summary) **2005b:62128**

Mandal, Saumendranath (*with* Torsney, B.; Carrière, K. C.) Constructing optimal designs with constraints. (English summary)

Nussbaum, Michael *see* **Jähnisch, Michael, 2005b:62085**

Torsney, B. *see* **Mandal, Saumendranath et al.**

62B99 None of the above, but in this section

Copas, John B. *see* **Lu, Guobing, 2005d:62014**

Lu, Guobing (*with* Copas, John B.) Missing at random, likelihood ignorability and model completeness. (English summary) **2005d:62014**

Items with secondary classifications in 62B99

Zhang, Haimeng Asymptotic efficiency of estimation in the partial Koziol-Green model. (English summary) **2005e:62074**

62Cxx Decision theory [see also 90B50, 91B06; for game theory, see 91A35]

62C05 General considerations

Aguirregabiria, Victor Nonparametric identification of behavioral responses to counterfactual policy interventions in dynamic discrete decision processes. (English summary) **2005k:62011**

Barbieri, Maria Maddalena (*with* Berger, James O.) Optimal predictive model selection. (English summary) **2005a:62026**

Bekara, Maïza *see* **Seghouane, Abd-Krim et al., 2005d:62016**

Berger, James O. *see* **Barbieri, Maria Maddalena, 2005a:62026**

Birgé, Lucien Model selection for Gaussian regression with random design. (English summary) **2005j:62017**

Chen, Kung-Yu (*with* Lin, Chien-Tai) A note on strategies for bandit problems with infinitely many arms. (English summary) **2005d:62015**

Cook, R. Dennis *see* **Li, Lexin et al.**

Cruz Rambaud, Salvador *see* **García Pérez, José et al., 2005h:62021**

Dehejia, Rajeev H. Program evaluation as a decision problem. (English summary)

Dudoit, Sandrine *see* **Keleş, Sündüz et al., 2005i:62017**

Fleury, Gilles Alain *see* **Seghouane, Abd-Krim et al., 2005d:62016**

Gao, Xin Bo *see* **Li, Jie et al.**

García Pérez, José (*with* Cruz Rambaud, Salvador; Velasco, José Manuel Herrerías) Some indications to correctly use the estimations of an expert in the PERT methodology. (English summary) **2005h:62021**

Girotto, Bruno (*with* Holzer, Silvano) Representing complete and incomplete subjective linear preferences on random numbers. (English summary) **2005k:62012**

Gosavi, Abhijit Reinforcement learning for long-run average cost. (English summary) **2005a:62027**

Grabisch, Michel (*with* Labreuche, Christophe; Marichal, Jean Luc; Miranda, Pedro) k-intolerant bi-capacities and veto criteria. (*see* **2005i:62007**)

Haynes, Michele (*with* Mengersen, Kerrie) An indifference zone approach to testing for a two-component normal mixture. (English summary) (*see* **2005a:62014**)

Heckman, James J. (*with* Vytlacil, Edward J.) Structural equations, treatment effects, and econometric policy evaluation. (English summary) **2005k:62013**

Hohjo, H. *see* **Teraoka, Y. et al., 2005k:62014**

Holzer, Silvano *see* **Girotto, Bruno, 2005k:62012**

Huang, Hsin-Cheng *see* **Shen, Xiaotong et al., 2005c:62011**

Jiao, Li Cheng *see* **Li, Jie et al.**

Keleş, Sündüz (*with* van der Laan, Mark J.; Dudoit, Sandrine) Asymptotically optimal model selection method with right censored outcomes. (English summary) **2005i:62017**

Kulkarni, Sanjeev R. *see* **Wang, Chih-Chun et al., 2005k:62015**

van der Laan, Mark J. *see* **Keleş, Sündüz et al., 2005i:62017**

Labreuche, Christophe *see* **Grabisch, Michel et al., (2005i:62007)**

Levy, Martin S. *see* **Wen, Daling**

Li, Chu Lin *see* **Liu, Xiang Hua**[1]

Li, Jie (*with* Gao, Xin Bo; Jiao, Li Cheng) Fuzzy CLOPE algorithm and its parameter optimal choice. (Chinese. English and Chinese summaries)

Li, Lei[2] (*with* Speed, Terence P.) Deconvolution of sparse positive spikes. (English summary)

Li, Lexin (*with* Cook, R. Dennis; Nachtsheim, Christopher J.) Model-free variable selection. (English summary)

Lin, Chien-Tai *see* **Chen, Kung-Yu, 2005d:62015**

Liu, Xiang Hua[1] (*with* Li, Chu Lin) Decision-making analysis of strategic R & D investment with capacity installed. (Chinese. English and Chinese summaries)

Marichal, Jean Luc *see* **Grabisch, Michel et al., (2005i:62007)**

Mengersen, Kerrie *see* **Haynes, Michele, (2005a:62014)**

Miranda, Pedro *see* **Grabisch, Michel et al., (2005i:62007)**

Molenberghs, Geert (*with* Verbeke, Geert) Meaningful statistical models formulations for repeated measures. (English summary)

Nachtsheim, Christopher J. *see* **Li, Lexin et al.**

Osumi, Shigehiro *see* **Teraoka, Y. et al., 2005k:62014**

Paterlini, Sandra *see* **Roverato, Alberto**

Poor, H. Vincent *see* **Wang, Chih-Chun et al., 2005k:62015**

Roverato, Alberto (*with* Paterlini, Sandra) Technological modelling for graphical models: an approach based on genetic algorithms. (English summary)

Seghouane, Abd-Krim (*with* Bekara, Maïza; Fleury, Gilles Alain) A criterion for model selection in the presence incomplete data based on Kullback's symmetric divergence. (English summary) **2005d:62016**

Shen, Xiaotong (*with* Huang, Hsin-Cheng; Ye, Jimmy) Inference after model selection. (English summary) **2005c:62011**

Speed, Terence P. *see* **Li, Lei**[2]

Teraoka, Y. (*with* Osumi, Shigehiro; Hohjo, H.) Some Stackelberg type location game. (English summary) **2005k:62014**

Tietje, Olaf Identification of a small reliable and efficient set of consistent scenarios. (English summary)

Velasco, José Manuel Herrerías *see* **García Pérez, José et al., 2005h:62021**

Verbeke, Geert *see* **Molenberghs, Geert**

Vytlacil, Edward J. *see* **Heckman, James J., 2005k:62013**

Wang, Chih-Chun (*with* Kulkarni, Sanjeev R.; Poor, H. Vincent) Bandit problems with side observations. (English summary) **2005k:62015**

Wang, Yuedong Model selection. (*see* **2005g:62004**)

Wei, Li Li (*with* Zhang, Wen Xiu) A Bayesian approach to multiple fuzzy hypothesis testing. (Chinese. English and Chinese summaries) **2005j:62018**

Wen, Daling (*with* Levy, Martin S.) Algorithms for fitting BLINEX loss parameters. (English summary)

Xu, Ze Shui (*with* Zhao, Hua) A method for fuzzy multi-attribute decision making with preference information in the form of fuzzy reciprocal judgment matrix. (Chinese. English and Chinese summaries) **2005i:62018**

Ye, Jimmy *see* **Shen, Xiaotong et al., 2005c:62011**

Yue, Jack C. A note on optimal strategies of a generalized two-stage bandit problem. (English summary) **2005i:62019**

Zhang, Wen Xiu *see* **Wei, Li Li, 2005j:62018**

Zhao, Hua *see* **Xu, Ze Shui, 2005i:62018**

Items with secondary classifications in 62C05

Agresti, Alan (*with* Caffo, Brian S.; Ohman-Strickland, Pamela) Examples in which misspecification of a random effects distribution reduces efficiency, and possible remedies. (English summary)

Anrig, Bernhard (*with* Baziukaitė, Dalia) Probabilistic argumentation systems with decision variables. (English and Lithuanian summaries)
Arbogast, Patrick G. (*with* Lin, Danyu Y.) Goodness-of-fit methods for matched case-control studies. (English and French summaries)
Arboretti Giancristofaro, R. (*with* Salmaso, L.) Model performance analysis and model validation in logistic regression. (English and Italian summaries)
Augustin, Thomas[I] Optimal decisions under complex uncertainty—basic notions and a general algorithm for data-based decision making with partial prior knowledge described by interval probability. (English summary)
Bassan, Bruno (*with* Scarsini, Marco; Zamir, Shmuel) Some interactive decision problems emerging in statistical games. (English summary) **2005a:62028**
Baziukaitė, Dalia *see* **Anrig, Bernhard**
Bennert, R. (*with* Missler-Behr, M.) Optimization of corporate reorganization portfolios based on a genetic algorithm. (English summary) (*see* **2005b:62008**)
Bityukov, Sergei I. (*with* Krasnikov, Nikolai V.) The probability of making a correct decision in hypotheses testing as estimator of quality of planned experiments. (English summary) (*see* **2005c:62004**)
(Bozdogan, Hamparsum) *see* **Taper, Mark L., 2005g:62008**
Caffo, Brian S. *see* **Agresti, Alan et al.**
Carroll, Raymond J. (*with* Ruppert, David; Crainiceanu, Ciprian M.; Tosteson, Tor D.; Karagas, Margaret R.) Nonlinear and nonparametric regression and instrumental variables. (English summary) **2005h:62173**
Chen, Wen Cai (*with* Ye, Zhong Xing) Coherent risk measures defined on $L^p(\Omega)$ spaces. (Chinese. English and Chinese summaries) **2005k:60014**
Chouanière, Dominique *see* **Grzebyk, Michel et al., 2005e:62102**
Claeskens, Gerda *see* **Hjort, Nils Lid, 2005a:62021**
Crainiceanu, Ciprian M. *see* **Carroll, Raymond J. et al., 2005h:62173**
Efromovich, Sam Density estimation for biased data. (English summary) **2005i:62066**
Faĭnzil′berg, L. S. Conditions for the usefulness of diagnostic tests from the standpoint of statistical decision theory. (Russian. English, Russian and Ukrainian summaries) **2005k:62177**
Fan, Jianqing (*with* Li, Runze) New estimation and model selection procedures for semiparametric modeling in longitudinal data analysis. (English summary) **2005d:62053**
Golubtsov, P. V. (*with* Lyubetskiĭ, V. A.) The informational structure of dynamic games and the volume of information accessible to players. (Russian. English summary) (*see* **2005f:03002**)
Grzebyk, Michel (*with* Wild, Pascal; Chouanière, Dominique) On identification of multi-factor models with correlated residuals. (English summary) **2005e:62102**
Hjort, Nils Lid (*with* Claeskens, Gerda) Frequentist model average estimators. (English summary) **2005a:62021**
Hosseinzadeh Lotfi, F. *see* **Jahanshahloo, Gholamreza et al., 2005a:62022**
Hu, Qiying *see* **Jiang, Min et al., 2005j:62203**
Hudson, H. Malcolm (*with* Langlands, Allan; Simes, John) Risk models for individual decision making. (English summary) (*see* **2005a:62014**)
Jahanshahloo, Gholamreza (*with* Hosseinzadeh Lotfi, F.; Shoja, N.; Tohidi, G.; Razavyan, S.) Ranking using l_1-norm in data envelopment analysis. (English summary) **2005a:62022**
Jiang, Min (*with* Hu, Qiying; Meng, Zhiqing) A method on solving multiple conditional value-at-risk based on weights. (English summary) **2005j:62203**
Karagas, Margaret R. *see* **Carroll, Raymond J. et al., 2005h:62173**
de Korvin, André (*with* Sirisaengtaksin, Ongard) Generating rules from data: going from simple to more uncertain specifications. (English summary)
Krasnikov, Nikolai V. *see* **Bityukov, Sergei I., (2005c:62004)**
Langlands, Allan *see* **Hudson, H. Malcolm et al., (2005a:62014)**
Leeb, Hannes (*with* Pötscher, Benedikt M.) Model selection and inference: facts and fiction. (English summary)
Levikson, B. *see* **Zacks, Shelemyahu, 2005c:62195**
Li, Runze *see* **Fan, Jianqing, 2005d:62053**
Lin, Danyu Y. *see* **Arbogast, Patrick G.**
Lu, Chang Yu *see* **Zhang, Bao Xue, 2005k:62172**
Lyubetskiĭ, V. A. *see* **Golubtsov, P. V., (2005f:03002)**
Maringer, Dietmar G. Finding the relevant risk factors for asset pricing. (English summary)
Meng, Zhiqing *see* **Jiang, Min et al., 2005j:62203**
Missler-Behr, M. *see* **Bennert, R., (2005b:62008)**
Mitran, Ilie On the maximum probability criteria concerning the sequential decision-making problem. (English summary) **2005a:91028**
Nagarajan, Ramachandran *see* **Vasant, Pandian M. et al.**
Ohman-Strickland, Pamela *see* **Agresti, Alan et al.**
Ozdemir, Müjgan Sagir Validity and inconsistency in the analytic hierarchy process. (English summary)
Parnas, Michal (*with* Ron, Dana) Testing metric properties. (English summary) (*see* **2005j:68008**)
Pötscher, Benedikt M. *see* **Leeb, Hannes**
Razavyan, S. *see* **Jahanshahloo, Gholamreza et al., 2005a:62022**
Ron, Dana *see* **Parnas, Michal, (2005j:68008)**
Roters, Markus Exponential boundedness of control variables in a sequentially planned Bayesian multiple decision problem in continuous time. (English summary) **2005f:62125**
Ruppert, David *see* **Carroll, Raymond J. et al., 2005h:62173**
Salmaso, L. *see* **Arboretti Giancristofaro, R.**
Scarsini, Marco *see* **Bassan, Bruno et al., 2005a:62028**
Schäl, Manfred On discrete-time dynamic programming in insurance: exponential utility and minimizing the ruin probability. (English summary) **2005e:62147**
Shoja, N. *see* **Jahanshahloo, Gholamreza et al., 2005a:62022**
Siegmund, David O. Model selection in irregular problems: applications to mapping quantitative trait loci. (English summary)
Simes, John *see* **Hudson, H. Malcolm et al., (2005a:62014)**
Sirisaengtaksin, Ongard *see* **de Korvin, André**
Taper, Mark L. Model identification from many candidates. (English summary) **2005g:62008**
Tohidi, G. *see* **Jahanshahloo, Gholamreza et al., 2005a:62022**
Tosteson, Tor D. *see* **Carroll, Raymond J. et al., 2005h:62173**
Vasant, Pandian M. (*with* Nagarajan, Ramachandran; Yaacob, Sazali) Application of modified S-curve membership function in decision making process using FLP approach. (English summary)
(Verdinelli, Isabella) *see* **Taper, Mark L., 2005g:62008**
(Wasserman, Larry) *see* **Taper, Mark L., 2005g:62008**
Whittle, Peter State structure, decision making and related issues. (English summary) (*see* **2005c:62005**)
Wild, Pascal *see* **Grzebyk, Michel et al., 2005e:62102**
Xu, Li Mei (*with* Zeng, Lin Rui) The expected value of sampling information for a linear decision problem on two actions under the Γ-P model. (Chinese. English and Chinese summaries) **2005g:90067**
Yaacob, Sazali *see* **Vasant, Pandian M. et al.**
Ye, Zhong Xing *see* **Chen, Wen Cai, 2005k:60014**
Zacks, Shelemyahu (*with* Levikson, B.) Claiming strategies and premium levels for bonus malus systems. (English summary) **2005c:62195**
Zamir, Shmuel *see* **Bassan, Bruno et al., 2005a:62028**
Zeng, Lin Rui *see* **Xu, Li Mei, 2005g:90067**
Zhang, Bao Xue (*with* Lu, Chang Yu) A study of the equivalence of the MINQUEs between a partitioned singular linear model and its reduced singular linear models. (English and Chinese summaries) **2005k:62172**

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Items with secondary classifications in 62C07

Cohen, Arthur (*with* Sackrowitz, H. B.) Monotonicity properties of multiple endpoint testing procedures. (English summary) **2005h:62160**
Dhariyal, Ishwari D. *see* **Misra, Neeraj, 2005m:62053**
Misra, Neeraj (*with* Dhariyal, Ishwari D.) Simultaneous selection of extreme populations: optimal two-stage decision rules. (English summary) **2005m:62053**
Sackrowitz, H. B. *see* **Cohen, Arthur, 2005h:62160**

62C10 Bayesian problems; characterization of Bayes procedures

Abraham, Christophe (*with* Cadre, Benoît) Asymptotic global robustness in Bayesian decision theory. (English summary) **2005f:62011**
Álvarez, Giselle *see* **Rodríguez, Abel et al., 2005e:62011**
Andrieu, Christophe (*with* Doucet, Arnaud; Robert, Christian P.) Computational advances for and from Bayesian analysis. (English summary)
Angers, Jean-François (*with* Delampady, Mohan) Fuzzy sets in hierarchical Bayes and robust Bayes inference. (English summary)
Bassan, Bruno (*with* Scarsini, Marco; Zamir, Shmuel) Some interactive decision problems emerging in statistical games. (English summary) **2005a:62028**
(Bayarri, M. J.) *see* **O'Hagan, Anthony, (2005b:62009)**
Berger, James O. (*with* Molina, German) Posterior model probabilities via path-based pairwise priors. (English summary)
Berliner, L. Mark *see* **Wikle, Christopher K.**
Bessière, Pierre *see* **Pradalier, Cédric et al., (2005c:62004)**
Blower, David J. An easy derivation of logistic regression from the Bayesian and maximum entropy perspective. (English summary) (*see* **2005c:62004**)
Boguslavskiĭ, I. A. Algorithms of a linear estimation of a poorly worded matrix and errors of observations—uncertain functions of time. (English summary)
Boratyńska, Agata Two-point priors and minimax estimation of a bounded parameter under convex loss. (English summary) **2005m:62014**
Cadre, Benoît *see* **Abraham, Christophe, 2005f:62011**
Carlin, Bradley P. Whither applied Bayesian inference? (*see* **2005m:62005**)
Center, Julian L., Jr. Blind source separation, independent component analysis, and pattern classification—connections and synergies. (English summary) (*see* **2005c:62004**)
Chang, Chia-Hua *see* **Kreng, Victor B.**
Chen, Jianwei (*with* Choy, S. T. Boris; Li, Kim Hung) Optimal Bayesian sampling acceptance plan with random censoring. (English summary) **2005a:62029**
Chen, Ming-Hui Computing marginal likelihoods from a single MCMC output. (English summary) **2005k:62016**
Chib, Siddhartha (*with* Jeliazkov, Ivan) Accept-reject Metropolis-Hastings sampling and marginal likelihood estimation. (English summary)
Choi, Sanga (*with* Kim, Hyunsoo; Kim, Seong W.) Propriety of the power prior for the Weibull regression model. (English summary) **2005i:62020**
Choy, S. T. Boris *see* **Chen, Jianwei et al., 2005a:62029**
Clyde, Merlise (*with* George, Edward I.) Model uncertainty. (English summary)
Colas, Francis *see* **Pradalier, Cédric et al., (2005c:62004)**
Corcoran, J. N. *see* **Schneider, Ulrike**
Craiu, Mariana Bayes estimators for a multivariate survival model. (English summary) **2005h:62022**
Damien, Paul *see* **Walker, Stephen G. et al., 2005k:62018**
De Iorio, Maria *see* **Müller, Peter[2] et al.**
Delampady, Mohan *see* **Angers, Jean-François**
Denuit, Michel (*with* Lang, Stefan[2]) Non-life rate-making with Bayesian GAMs. (English summary)
Doucet, Arnaud *see* **Andrieu, Christophe et al.**
Galindo-Garre, Francisca (*with* Vermunt, Jeroen K.) Testing log-linear models with inequality constraints: a comparison of asymptotic, bootstrap, and posterior predictive p-values. (English summary)
Geisser, Seymour *see* **Wang, Ming-Dauh**
(Gelfand, Alan E.) *see* **O'Hagan, Anthony, (2005b:62009)**
George, Edward I. *see* **Clyde, Merlise**
Glickman, Mark E. (*with* Jensen, Shane T.) Adaptive paired comparison design. (English summary)
Godsill, Simon J. *see* **Wolfe, Patrick J. et al.**

Grendar, Marian *see* **Grendar, Marian, Jr.**, (**2005c:62004**)
Grendar, Marian, Jr. (*with* Grendar, Marian) Maximum probability and maximum entropy methods: Bayesian interpretation. (English summary) (*see* **2005c:62004**)
Haitovsky, Yoel *see* **Swartz, Tim B. et al.**, **2005j:62021**
Hareter, Dietmar (*with* Viertl, Reinhard) Fuzzy information and Bayesian statistics. (*see* **2005i:62007**)
Hjort, Nils Lid Topics in non-parametric Bayesian statistics. (*see* **2005b:62009**)
Ho, Yu-Yun *see* **Peruggia, Mario et al.**
Hoijtink, Herbert *see* **Klugkist, Irene et al.**
Hua, Peng (*with* Liu, Fu Sheng) Bayesian robustness of ε-contaminated priors. (Chinese. English and Chinese summaries)
Hutter, Marcus Optimality of universal Bayesian sequence prediction for general loss and alphabet. (English summary) **2005j:62019**
Jaworski, Stanisław (*with* Zieliński, Wojciech) A procedure for ε-comparison of means of two normal distributions. (English summary) **2005c:62012**
Jeliazkov, Ivan *see* **Chib, Siddhartha**
Jensen, Shane T. *see* **Glickman, Mark E.**
Jiao, Li Cheng *see* **Yue, Bo**, **2005g:62014**
Kato, Bernet *see* **Klugkist, Irene et al.**
Kim, Hyunsoo *see* **Choi, Sanga et al.**, **2005i:62020**
Kim, Seong W. *see* **Choi, Sanga et al.**, **2005i:62020**
Kim, Yongdai (*with* Lee, Jaeyong) A Bernstein-von Mises theorem in the nonparametric right-censoring model. (English summary) **2005i:62021**
Kleibergen, Frank Invariant Bayesian inference in regression models that is robust against the Jeffreys-Lindley's paradox. (English summary) **2005f:62012**
Klugkist, Irene (*with* Kato, Bernet; Hoijtink, Herbert) Bayesian model selection using encompassing priors. (English summary)
Koop, Gary (*with* Potter, Simon) Forecasting in dynamic factor models using Bayesian model averaging. (English summary)
Kouritzin, Michael A. (*with* Zeng, Yong[1]) Bayesian model selection via filtering for a class of micro-movement models of asset price. (English summary) **2005i:62022**
Kreng, Victor B. (*with* Chang, Chia-Hua) A novel mechanism for multi agents to inference, negotiate, and pool information based on Bayesian networks. (English summary)
Lang, Stefan[2] *see* **Denuit, Michel**
Lee, Jaeyong *see* **Kim, Yongdai**, **2005i:62021**
Lee, Sik-Yum (*with* Song, Xin-Yuan) Bayesian model selection for mixtures of structural equation models with an unknown number of components. (English summary)
— *see also* **Song, Xin-Yuan**
Lenk, Peter *see* **Walker, Stephen G. et al.**, **2005k:62018**
León-Rojas, Juan M. (*with* Morales, Montaña) Interval fuzzy Bayesian inference. **2005j:62020**
Li, Kim Hung *see* **Chen, Jianwei et al.**, **2005a:62029**
Liu, Fu Sheng *see* **Hua, Peng**
Lo, Albert Y. (*with* Sazonov, Vyacheslav Vasil′evich) On the consistency of Bayesian procedures. (Russian. Russian summary) **2005h:62023**
Loken, Eric Multimodality in mixture models and factor models. (English summary) (*see* **2005m:62005**)
Loredo, Thomas J. Bayesian adaptive exploration. (English summary) (*see* **2005c:62004**)
Lubrano, Michel (*with* Protopopescu, Camelia) Density inference for ranking European research systems in the field of economics. (English summary) **2005g:62013**
Martín, Jacinto *see* **Ruggeri, Fabrizio et al.**, **2005i:62023**
Matteucci, Matteo (*with* Spadoni, Dario) Evolutionary learning of rich neural networks in the Bayesian model selection framework. (English summary)
Molina, German *see* **Berger, James O.**
Morales, Montaña *see* **León-Rojas, Juan M.**, **2005j:62020**
Müller, Peter[2] (*with* Sansó, Bruno; De Iorio, Maria) Optimal Bayesian design by inhomogeneous Markov chain simulation. (English summary)
— (*with* Quintana, Fernando A.) Nonparametric Bayesian data analysis. (English summary)
Nakai, Tōru Properties of total positivity and an application to job search under uncertainty. (English summary) **2005h:62024**
Ng, Wee-Jing *see* **Wolfe, Patrick J. et al.**
O'Hagan, Anthony HSSS model criticism. (*see* **2005b:62009**)
Ohnishi, Toshio[2] *see* **Yanagimoto, Takemi**, **2005f:62013**
Peruggia, Mario (*with* Santner, Thomas J.; Ho, Yu-Yun) Detecting stage-wise outliers in hierarchical Bayesian linear models of repeated measures data. (English summary)
(Petrone, Sonia) *see* **Hjort, Nils Lid**, (**2005b:62009**)
Potter, Simon *see* **Koop, Gary**
Pradalier, Cédric (*with* Colas, Francis; Bessière, Pierre) Expressing Bayesian fusion as a product of distributions: application to randomized Hough transform. (English summary) (*see* **2005c:62004**)
Protopopescu, Camelia *see* **Lubrano, Michel**, **2005g:62013**
Puchala, Edward A Bayes algorithm for the multitask pattern recognition problem—direct approach. (English summary) (*see* **2005g:00014**)
Quintana, Fernando A. *see* **Müller, Peter[2]**
Ríos Insua, David *see* **Ruggeri, Fabrizio et al.**, **2005i:62023**
Robert, Christian P. Bayesian computational methods. (*see* **2005g:62004**)
— *see also* **Andrieu, Christophe et al.**
Rodríguez, Abel (*with* Álvarez, Giselle; Sansó, Bruno) Objective Bayesian comparison of Laplace samples from geophysical data. (English summary) **2005e:62011**
Romero, Vanessa (*with* Salmerón, Antonio) Multivariate imputation of qualitative missing data using Bayesian networks. (*see* **2005i:62007**)
Ruggeri, Fabrizio (*with* Martín, Jacinto; Ríos Insua, David) Optimal alternative robustness in Bayesian decision theory. (English and Spanish summaries) **2005i:62023**
Ruggoo, Arvind (*with* Vandebroek, Martina) Bayesian sequential $\mathscr{D}$-$\mathscr{D}$ optimal model-robust designs. (English summary)
Saebi, Nasrollah Aspects of control for the normal Markov processes. (English summary) **2005m:62015**
Salmerón, Antonio *see* **Romero, Vanessa**, (**2005i:62007**)
Sansó, Bruno *see* **Rodríguez, Abel et al.**, **2005e:62011** *and* **Müller, Peter[2] et al.**
Santner, Thomas J. *see* **Peruggia, Mario et al.**
Sazonov, Vyacheslav Vasil′evich *see* **Lo, Albert Y.**, **2005h:62023**
Scarsini, Marco *see* **Bassan, Bruno et al.**, **2005a:62028**
Schneider, Ulrike (*with* Corcoran, J. N.) Perfect sampling for Bayesian variable selection in a linear regression model. (English summary)
Song, Xin-Yuan (*with* Lee, Sik-Yum) Bayesian analysis of two-level nonlinear structural equation models with continuous and polytomous data. (English summary)
— *see also* **Lee, Sik-Yum**
Spadoni, Dario *see* **Matteucci, Matteo**
Stern, Julio Michael Inconsistency analysis for statistical tests of hypotheses. (*see* **2005i:62007**)
Swartz, Tim B. (*with* Haitovsky, Yoel; Vexler, Albert; Yang, Tae Young) Bayesian identifiability and misclassification in multinomial data. (English and French summaries) **2005j:62021**
Talbot, Mike *see* **Theobald, Chris M.**
Tang, Yongchuan (*with* Xu, Yang[1]) Application of fuzzy naive Bayes and a real-valued genetic algorithm in identification of fuzzy model. (English summary)
Theobald, Chris M. (*with* Talbot, Mike) Bayesian selection of fertilizer level when crop price depends on quality. (English summary)
(van der Vaart, Aad) *see* **Hjort, Nils Lid**, (**2005b:62009**)
Vandebroek, Martina *see* **Ruggoo, Arvind**
Vermunt, Jeroen K. *see* **Galindo-Garre, Francisca**
Vexler, Albert *see* **Swartz, Tim B. et al.**, **2005j:62021**
Viertl, Reinhard *see* **Hareter, Dietmar**, (**2005i:62007**)
Walker, Stephen G. Bayesian consistency for a class of regression problems. (English summary) **2005k:62017**
— (*with* Damien, Paul; Lenk, Peter) On priors with a Kullback-Leibler property. (English summary) **2005k:62018**
— Modern Bayesian asymptotics. (English summary)
Wang, Ming-Dauh (*with* Geisser, Seymour) Optimal dichotomization of screening test variables. (English summary)
Wikle, Christopher K. (*with* Berliner, L. Mark) Combining information across spatial scales. (English summary)
Wolfe, Patrick J. (*with* Godsill, Simon J.; Ng, Wee-Jing) Bayesian variable selection and regularization for time-frequency surface estimation. (English summary)
Xu, Yang[1] *see* **Tang, Yongchuan**
Yanagimoto, Takemi (*with* Ohnishi, Toshio[2]) Extensions of the conjugate prior through the Kullback-Leibler separators. (English summary) **2005f:62013**
Yang, Tae Young *see* **Swartz, Tim B. et al.**, **2005j:62021**
Yoo, Seung-Hoon A note on a Bayesian approach to a dichotomous choice environmental valuation model. (English summary)
Yue, Bo (*with* Jiao, Li Cheng) The invariance of the marginal probability distribution in the optimal approximate Bayesian networks. (Chinese. English and Chinese summaries) **2005g:62014**
Zamir, Shmuel *see* **Bassan, Bruno et al.**, **2005a:62028**
Zeng, Yong[1] *see* **Kouritzin, Michael A.**, **2005i:62022**
Zieliński, Wojciech *see* **Jaworski, Stanisław**, **2005c:62012**

Items with secondary classifications in 62C10

Abramovich, Felix (*with* Amato, Umberto; Angelini, Claudia) On optimality of Bayesian wavelet estimators. (English summary) **2005m:62070**
Akahira, Masafumi *see* **Maihara, Hirosuke**
Amato, Umberto *see* **Abramovich, Felix et al.**, **2005m:62070**
Anderson, Gary T. *see* **Juang, Muh-Guey**, **2005i:90013**
Anderson, Stewart J. *see* **Mor, Maria K.**
Andrushchenko, Zhanna *see* **Pavlenko, Tatjana et al.**, (**2005i:62007**)
Angelini, Claudia *see* **Abramovich, Felix et al.**, **2005m:62070**
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Audibert, Jean-Yves Aggregated estimators and empirical complexity for least square regression. (English and French summaries) **2005h:62164**
Barbieri, Maria Maddalena (*with* Berger, James O.) Optimal predictive model selection. (English summary) **2005a:62026**
Bengoetxea, Endika *see* **Miquélez, Teresa et al.**
Bennett, Nicholas N. (*with* Malinverno, Alberto) Fast model updates using wavelets. (English summary) **2005i:65231**
Berger, James O. *see* **Barbieri, Maria Maddalena**, **2005a:62026**
Bermak, Amine *see* **Brahim-Belhouari, Sofiane**
Biggeri, Annibale (*with* Dreassi, Emanuela; Marchi, Marco) A multilevel Bayesian model for contextual effect of material deprivation. (English summary)
Brahim-Belhouari, Sofiane (*with* Bermak, Amine) Gaussian process for nonstationary time series prediction. (English summary)
Brefeld, Ulf (*with* Geibel, Peter; Wysotzki, Fritz) Support vector machines with example dependent costs. (English summary) (*see* **2005c:68008**)
Brown, Philip J. *see* **Sha, Naijun et al.**
Buckley, Christopher Dominic *see* **Sha, Naijun et al.**
Burduk, Robert Decision rules for Bayesian hierarchical classifier with fuzzy factor. (*see* **2005i:62007**)
Cano, Andrés (*with* Moral, Serafín; Salmerón, Antonio) Algorithms for approximate probability propagation in Bayesian networks. (English summary)
Center, Julian L., Jr. Correcting amplitude and offset variations for pattern classification. (English summary) (*see* **2005c:62004**)
Chang, In Hong (*with* Mukerjee, Rahul) Asymptotic results on the frequentist mean squared error of generalized Bayes point predictors. (English summary) **2005c:62048**
Chernozhukov, Victor (*with* Hong, Han) Likelihood estimation and inference in a class of nonregular econometric models. (English summary) **2005g:62055**
Choi, Tsan-Ming (*with* Li, Duan; Yan, Houmin) Optimal single ordering policy with multiple delivery modes and Bayesian information updates. (English summary) **2005g:90006**

Christen, J. Andrés (*with* Müller, Peter[2]; Wathen, Kyle; Wolf, Judith) Bayesian randomized clinical trials: a decision-theoretic sequential design. (English and French summaries)
Claeskens, Gerda *see* **Hjort, Nils Lid**, 2005a:62021
Clarke, Bertrand Comparing Bayes model averaging and stacking when model approximation error cannot be ignored. (English summary)
— *see also* **Yuan, Ao**, 2005k:62080
Cohen-Tanugi, Johann *see* **Morris, Robin D.**, (2005c:62004)
Contestabile, Andrea *see* **Sha, Naijun et al.**
Coughlan, James M. (*with* Yuille, Alan L.) A large deviation theory analysis of Bayesian tree search. (English summary) 2005a:68192
Czado, Claudia (*with* Delwarde, Antoine; Denuit, Michel) Bayesian Poisson log-bilinear mortality projections. (English summary)
Danchick, Roy A ranked linear assignment approach to Bayesian classification. (English summary) 2005g:62107
Darwiche, Adnan *see* **Park, James D.**, 2005j:68104
Davies, Nick *see* **Sha, Naijun et al.**
Dellaportas, Petros (*with* Tarantola, Claudia) Model determination for categorical data with factor level merging. (English summary)
Delwarde, Antoine *see* **Czado, Claudia et al.**
Demchuk, Eugene *see* **Misra, Neeraj et al.**, 2005i:62084
Dencker, Peter[2] (*with* Liese, Friedrich) Local maximin properties of tests in Gaussian shift experiments. (English summary) 2005i:62075
Denuit, Michel *see* **Czado, Claudia et al.**
Diaconis, Persi (*with* Freedman, David A.) The Markov moment problem and de Finetti's theorem. I. (English summary) 2005m:60004
Dietrich, Franz (*with* List, Christian) A model of jury decisions where all jurors have the same evidence. (English summary) 2005i:91042
Dose, V. *see* **Kang, H. D.**, (2005c:62004)
Drăghici, L. (*with* Ramamoorthi, R. V.) Consistency of Dykstra-Laud priors. (English summary) 2005b:62114
Dragoni, Ilaria *see* **Sha, Naijun et al.**
Dreassi, Emanuela *see* **Biggeri, Annibale et al.**
Druzdzel, Marek J. *see* **Lu, Tsai-Ching**
Duin, R. P. W. *see* **van der Heijden, F. et al.**, 2005h:62004
Dunson, David B. (*with* Taylor, Jack A.) Approximate Bayesian inference for quantiles. (English summary) 2005j:62075
Eaton, Morris L. Evaluating improper priors and the recurrence of symmetric Markov chains: an overview. (English summary) 2005m:62062
Ermakov, M. S. Asymptotically minimax and Bayes estimation in a deconvolution problem. (English summary) 2005a:62089
Fahrmeir, Ludwig (*with* Kneib, Thomas; Lang, Stefan[2]) Penalized structured additive regression for space-time data: a Bayesian perspective. (English summary)
Falciani, Fancesco *see* **Sha, Naijun et al.**
Feltkamp, Vincent *see* **Halevy, Yoram**, 2005m:91118
Fischer, Bernd[3] (*with* Hajian, Arsen; Knuth, Kevin H.; Schumann, Johann) Automatic derivation of statistical data analysis algorithms: planetary nebulae and beyond. (English summary) (*see* 2005c:62004)
Freedman, David A. *see* **Diaconis, Persi**, 2005m:60004
Frees, Edward W. *see* **Luo, Yu et al.**
Fronk, Eva-Maria (*with* Giudici, Paolo) Markov chain Monte Carlo model selection for DAG models. (English summary)
Gamboa, Fabrice (*with* Loubes, Jean-Michel) Wavelet estimation of a multifractal function. (English summary) 2005j:62076
(Gámez, José A.) *see* **Advances in Bayesian networks**
Gargallo Valero, Pilar *see* **Salvador Figueras, Manuel**, 2005f:62144
Geibel, Peter *see* **Brefeld, Ulf et al.**, (2005c:68008)
Ghosh, Debashis *see* **Mallick, Bani K. et al.**
Ghosh, Malay *see* **Mallick, Bani K. et al.**
Giudici, Paolo *see* **Fronk, Eva-Maria**
Goldstein, Michael[1] (*with* Shaw, Simon C.) Bayes linear kinematics and Bayes linear Bayes graphical models. (English summary) 2005b:62013
Golubev, Yuri K. (*with* Levit, Boris) An oracle approach to adaptive estimation of linear functionals in a Gaussian model. (English summary) 2005k:62089
Golubtsov, P. V. (*with* Moskalyuk, S. S.) Fuzzy logic, informativeness and Bayesian decision-making problems. (English summary) 2005g:68162
(Gupta, Arjun K.) *see* **Handbook: Beta distribution and its applications**, 2005j:62007
Hajian, Arsen *see* **Fischer, Bernd[3] et al.**, (2005c:62004)
Halevy, Yoram (*with* Feltkamp, Vincent) A Bayesian approach to uncertainty aversion. (English summary) 2005m:91118
Hall, Mikael *see* **Pavlenko, Tatjana et al.**, (2005i:62007)
Hamada, Michael S. (*with* Johnson, Valen; Moore, Leslie M.; Wendelberger, Joanne) Bayesian prediction intervals and their relationship to tolerance intervals. (English summary)
van der Heijden, F. (*with* Duin, R. P. W.; de Ridder, D.; Tax, D. M. J.) ★ Classification, parameter estimation and state estimation. 2005h:62004
Hjort, Nils Lid (*with* Claeskens, Gerda) Frequentist model average estimators. (English summary) 2005a:62021
Hobert, James P. (*with* Marchev, Dobrin; Schweinsberg, Jason) Stability of the tail Markov chain and the evaluation of improper priors for an exponential rate parameter. (English summary) 2005f:60146
Hong, Han *see* **Chernozhukov, Victor**, 2005g:62055
de la Horra Navarro, J. (*with* Rodríguez-Bernal, María Teresa) Bayesian model selection: a predictive approach with losses based on distances L^1 and L^2. (English summary)
Irle, A. (*with* Paulsen, Volkert) Solving problems of optimal stopping with linear costs of observations. (English summary) 2005j:60087
Ishwaran, Hemant (*with* James, Lancelot F.) Generalized weighted Chinese restaurant processes for species sampling mixture models. (English summary) 2005b:62071
Ivan'ko, Yu. O. Asymptotics of empirical-Bayes risk in the classification of a mixture of two components with varying concentrations. (Ukrainian. Ukrainian summary) 2005i:62095
(Jain, Anil K.) *see* **van der Heijden, F. et al.**, 2005h:62004
James, Lancelot F. *see* **Ishwaran, Hemant**, 2005b:62071
Jensen, Mark J. Semiparametric Bayesian inference of long-memory stochastic volatility models. (English summary)
Jensen, Shane T. (*with* Liu, X. Shirley; Zhou, Qing[3]; Liu, Jun S.) Computational discovery of gene regulatory binding motifs: a Bayesian perspective. (English summary)
Johnson, Valen *see* **Hamada, Michael S. et al.**
Jokiel-Rokita, Alicja (*with* Magiera, Ryszard) Γ-minimax estimation with delayed observations from the multinomial distribution. (English summary) 2005b:62170
Juang, Muh-Guey (*with* Anderson, Gary T.) A Bayesian method on adaptive preventive maintenance problem. (English summary) 2005i:90013
Kaipio, Jari P. *see* **Somersalo, Erkki et al.**, 2005a:35282
Kang, H. D. (*with* Dose, V.) Bayesian model comparison using Gauss approximation on multicomponent mass spectra from CH_4 plasma. (English summary) (*see* 2005c:62004)
Kharin, A. Yu. Bayes prediction robustness in terms of L_1-distortions of prior probability distribution. 2005f:62089
Kłopotek, Mieczysław A. (*with* Woch, Marcin) Very large Bayesian networks in text classification. (English summary) (*see* 2005c:00014)
— Reasoning and learning in extended structured Bayesian networks. (English summary) 2005a:68185
Kneib, Thomas *see* **Fahrmeir, Ludwig et al.**
Knuth, Kevin H. *see* **Fischer, Bernd[3] et al.**, (2005c:62004)
Kočka, Tomáš *see* **Zhang, Lian Wen**, 2005j:68101
Kouritzin, Michael A. (*with* Zeng, Yong[1]) Weak convergence for a type of conditional expectation: application to the inference for a class of asset price models. (English summary) 2005i:60039
Kulkarni, Sanjeev R. *see* **Wang, Chih-Chun et al.**, 2005k:62015
Lai, Tze Leung (*with* Lim, Tiong Wee) Optimal stopping for Brownian motion with applications to sequential analysis and option pricing. (English summary)
Lang, Stefan[2] *see* **Fahrmeir, Ludwig et al.**
Larrañaga, Pedro *see* **Miquélez, Teresa et al.**
Latha, M. *see* **Suresh, K. K.**
Lauritzen, Steffen L. Some modern applications of graphical models. (*see* 2005b:62009)
Lee, Peter M. ★ Bayesian statistics. 2005a:62005
Levit, Boris *see* **Golubev, Yuri K.**, 2005k:62089
Lewis, Charles (*with* Thayer, Dorothy T.) A loss function related to the FDR for random effects multiple comparisons. (English summary)
Li, Duan *see* **Choi, Tsan-Ming et al.**, 2005g:90006
Liese, Friedrich *see* **Dencker, Peter[2]**, 2005i:62075
Lim, Tiong Wee *see* **Lai, Tze Leung**
Lin, Xiao Hui[2] Bayes' formula for fuzzy events. (Chinese. English and Chinese summaries) 2005g:03084
Lippman, Steven A. *see* **Ryan, Reade**, 2005i:60081
List, Christian *see* **Dietrich, Franz**, 2005i:91042
Liu, Jun S. *see* **Jensen, Shane T. et al.**
Liu, X. Shirley *see* **Jensen, Shane T. et al.**
Loubes, Jean-Michel *see* **Gamboa, Fabrice**, 2005j:62076
Lu, Tsai-Ching (*with* Druzdzel, Marek J.) Causal models, value of intervention, and search for opportunities. (English summary)
Luo, Yu (*with* Young, Virginia R.; Frees, Edward W.) Credibility ratemaking using collateral information. (English summary)
Magiera, Ryszard *see* **Jokiel-Rokita, Alicja**, 2005b:62170
Maihara, Hirosuke (*with* Akahira, Masafumi) Weighted loss functions for set estimation and testing hypotheses. (English summary)
Malinverno, Alberto *see* **Bennett, Nicholas N.**, 2005i:65231
Mallick, Bani K. (*with* Ghosh, Debashis; Ghosh, Malay) Bayesian classification of tumours by using gene expression data. (English summary)
Marchand, Éric (*with* Strawderman, William E.) Estimation in restricted parameter spaces: a review. (English summary) 2005j:62067
Marchev, Dobrin *see* **Hobert, James P. et al.**, 2005f:60146
Marchi, Marco *see* **Biggeri, Annibale et al.**
Matwin, S. *see* **Ouerd, M. et al.**, 2005i:68072
Meeden, Glen A noninformative Bayesian approach to domain estimation. (English summary)
Migon, Helio S. (*with* Moura, Fernando A. S.) Hierarchical Bayesian collective risk model: an application to health insurance. (English summary) 2005k:91188
Miquélez, Teresa (*with* Bengoetxea, Endika; Larrañaga, Pedro) Evolutionary computation based on Bayesian classifiers. (English summary)
Mira, Antonietta (*with* Tenconi, Paolo) Bayesian estimate of default probabilities via MCMC with delayed rejection. (English summary) (*see* 2005f:60008)
Misra, Neeraj (*with* Singh, Harshinder; Demchuk, Eugene) Estimation of the entropy of a multivariate normal distribution. (English summary) 2005i:62084
Moore, Leslie M. *see* **Hamada, Michael S. et al.**
Mor, Maria K. (*with* Anderson, Stewart J.) A Bayesian group sequential approach for multiple endpoints. (English summary)
Moral, Serafín *see* **Cano, Andrés et al.** *and* **Advances in Bayesian networks**
Morris, Robin D. (*with* Cohen-Tanugi, Johann) An analysis methodology for the gamma-ray large area space telescope. (English summary) (*see* 2005c:62004)
(Mortera, Julia) *see* **Lauritzen, Steffen L.**, (2005b:62009)
Moskalyuk, S. S. *see* **Golubtsov, P. V.**, 2005g:68162
Moura, Fernando A. S. *see* **Migon, Helio S.**, 2005k:91188
Mukerjee, Rahul *see* **Chang, In Hong**, 2005c:62048
Müller, Peter[2] (*with* Quintana, Fernando A.; Rosner, Gary) A method for combining inference across related nonparametric Bayesian models. (English summary)
— *see also* **Christen, J. Andrés et al.**
Murphy, Thomas Brendan Bayesian robustness for multivariate problems. (English summary) (*see* 2005a:62016)
(Nadarajah, Saralees) *see* **Handbook: Beta distribution and its applications**, 2005j:62007
Nagarajan, Radhakrishnan (*with* Aubin, Jane E.; Peterson, Charlotte A.) Modeling genetic networks from clonal analysis. (English summary)
Nehring, Klaus The veil of public ignorance. (English summary)

Nieto-Barajas, Luis E. (*with* Walker, Stephen G.) Bayesian nonparametric survival analysis via Lévy driven Markov processes. (English summary) **2005i:62144**
Ohyauchi, Nao The Vincze inequality for the Bayes risk. (English summary) **2005g:62129**
Olmuş, Hülya (*with* Oral Erbaş, S.) Determining the conditional probabilities in Bayesian networks. (English summary)
Oommen, B. John *see* **Ouerd, M. et al., 2005i:68072**
Oral Erbaş, S. *see* **Olmuş, Hülya**
O'Sullivan, Joseph A. *see* **Schmid, Natalia A.**
Ouerd, M. (*with* Oommen, B. John; Matwin, S.) A formal approach to using data distributions for building causal polytree structures. (English summary) **2005i:68072**
Park, James D. (*with* Darwiche, Adnan) Complexity results and approximation strategies for MAP explanations. (English summary) **2005j:68104**
Paulsen, Volkert *see* **Irle, A., 2005j:60087**
Pavlenko, Tatjana (*with* Hall, Mikael; von Rosen, Dietrich; Andrushchenko, Zhanna) Towards the optimal feature selection in high-dimensional Bayesian network classifiers. (English summary) (*see* **2005i:62007**)
Pearn, Wen Lea (*with* Wu, Chien-Wei) A Bayesian approach for assessing process precision based on multiple samples. (English summary)
Peterson, Charlotte A. *see* **Nagarajan, Radhakrishnan et al.**
Petkau, A. John Optimal group sequential designs for the Anscombe-Colton model. (English summary) (*see* **2005m:62007**)
Poor, H. Vincent *see* **Wang, Chih-Chun et al., 2005k:62015**
Pu, Xiao Long (*with* Xu, Jing) Comparison of two Bayesian models. (Chinese. English and Chinese summaries) **2005k:62079**
Quintana, Fernando A. *see* **Müller, Peter[2] et al.**
Raftery, Adrian E. *see* **Walsh, Daniel C. I.**
Ramamoorthi, R. V. *see* **Drăghici, L., 2005b:62114**
de Ridder, D. *see* **van der Heijden, F. et al., 2005h:62004**
Roberts, Tracy C. *see* **Sha, Naijun et al.**
Rodríguez-Bernal, María Teresa *see* **de la Horra Navarro, J.**
van Rooy, Robert Utility, informativity and protocols. (English summary) **2005m:62013**
von Rosen, Dietrich *see* **Pavlenko, Tatjana et al.,** (**2005i:62007**)
Rosen, Tzachi (*with* Shimony, Solomon Eyal; Santos, Eugene, Jr.) Reasoning with BKBs—algorithms and complexity. (English summary) **2005a:68196**
Rosner, Gary *see* **Müller, Peter[2] et al.**
Roters, Markus Exponential boundedness of control variables in a sequentially planned Bayesian multiple decision problem in continuous time. (English summary) **2005f:62125**
Roverato, Alberto On the invariance of conditioning procedures for the specification of prior distributions for nested DAG models. (English summary) **2005c:62049**
Ryan, Reade (*with* Lippman, Steven A.) Optimal exit from a project with noisy returns. (English summary) **2005i:60081**
Salmerón, Antonio *see* **Cano, Andrés et al.** *and* **Advances in Bayesian networks**
Salmon, Mike *see* **Sha, Naijun et al.**
Salvador Figueras, Manuel (*with* Gargallo Valero, Pilar) Automatic monitoring and intervention in multivariate dynamic linear models. (English summary) **2005f:62144**
Santos, Eugene, Jr. *see* **Rosen, Tzachi et al., 2005a:68196**
Schmid, Natalia A. (*with* O'Sullivan, Joseph A.) Performance prediction methodology for biometric systems using a large deviations approach. (English summary)
Schumann, Johann *see* **Fischer, Bernd[3] et al.,** (**2005c:62004**)
Schweinsberg, Jason *see* **Hobert, James P. et al., 2005f:60146**
Sha, Naijun (*with* Vannucci, Marina; Tadesse, Mahlet G.; Brown, Philip J.; Dragoni, Ilaria; Davies, Nick; Roberts, Tracy C.; Contestabile, Andrea; Salmon, Mike; Buckley, Christopher Dominic; Falciani, Fancesco) Bayesian variable selection in multinomial probit models to identify molecular signatures of disease stage. (English summary)
Shaw, Simon C. *see* **Goldstein, Michael[1], 2005b:62013**
Shevasuthisilp, Suntichai (*with* Vardeman, Stephen B.) Development programs for one-shot systems using multiple-state design reliability models. (English summary) **2005e:90051**
Shimony, Solomon Eyal *see* **Rosen, Tzachi et al., 2005a:68196**
Singh, Harshinder *see* **Misra, Neeraj et al., 2005i:62084**
Somersalo, Erkki (*with* Voutilainen, A.; Kaipio, Jari P.) Non-stationary magnetoencephalography by Bayesian filtering of dipole models. (English summary) **2005a:35282**
Strawderman, William E. *see* **Marchand, Éric, 2005j:62067**
Suresh, K. K. (*with* Latha, M.) Designing Bayesian chain sampling plan (BChSp-1) with minimum angle method. (English summary)
Tadesse, Mahlet G. *see* **Sha, Naijun et al.**
Tarantola, Claudia *see* **Dellaportas, Petros**
Tax, D. M. J. *see* **van der Heijden, F. et al., 2005h:62004**
Taylor, Jack A. *see* **Dunson, David B., 2005j:62075**
Tenconi, Paolo *see* **Mira, Antonietta,** (**2005f:60008**)
Thayer, Dorothy T. *see* **Lewis, Charles**
Titterington, D. Michael Bayesian methods for neural networks and related models. (English summary)
Torney, David C. Bayesian analysis of binary sequences. (English summary) **2005h:62093**
Tunaru, Radu Bayesian model selection for contingency tables. (English summary) **2005d:62098**
Unnikrishnan, N. K. Bayesian subset model selection for time series. (English summary)
Vannucci, Marina *see* **Sha, Naijun et al.**
Vardeman, Stephen B. *see* **Shevasuthisilp, Suntichai, 2005e:90051**
Voutilainen, A. *see* **Somersalo, Erkki et al., 2005a:35282**
Walker, Stephen G. *see* **Nieto-Barajas, Luis E., 2005i:62144**
Walsh, Daniel C. I. (*with* Raftery, Adrian E.) Classification of mixtures of spatial point processes via partial Bayes factors. (English summary)
Wang, Chih-Chun (*with* Kulkarni, Sanjeev R.; Poor, H. Vincent) Bandit problems with side observations. (English summary) **2005k:62015**
Wang, Hsiuying Improved confidence estimators for confidence sets of location parameters. (English summary) **2005g:62017**
Wang, Yuedong Model selection. (*see* **2005g:62004**)
Wathen, Kyle *see* **Christen, J. Andrés et al.**
Wei, Li Li (*with* Zhang, Wen Xiu) Bayesian procedure in classification problems with linear exponential hazard function. (Chinese. English and Chinese summaries) **2005h:62209**
Wendelberger, Joanne *see* **Hamada, Michael S. et al.**
(Wermuth, Nanny) *see* **Lauritzen, Steffen L.,** (**2005b:62009**)
Woch, Marcin *see* **Kłopotek, Mieczysław A.,** (**2005c:00014**)
Wolf, Judith *see* **Christen, J. Andrés et al.**
Woodworth, George G. ★ Biostatistics. **2005c:62198**
Wu, Chien-Wei *see* **Pearn, Wen Lea**
Wu, Hsien-Chung Fuzzy Bayesian estimation on lifetime data. (English summary)
Wysotzki, Fritz *see* **Brefeld, Ulf et al.,** (**2005c:68008**)
Xu, Jing (*with* Zheng, Zhong Guo) Bayes estimation of causal effect for a counterfactural model. (English and Chinese summaries)
— *see also* **Pu, Xiao Long, 2005k:62079**
Yan, Houmin *see* **Choi, Tsan-Ming et al., 2005g:90006**
Young, Virginia R. *see* **Luo, Yu et al.**
Yuan, Ao (*with* Clarke, Bertrand) Asymptotic normality of the posterior given a statistic. (English and French summaries) **2005k:62080**
Yuille, Alan L. *see* **Coughlan, James M., 2005a:68192**
Zeng, Yong[1] *see* **Kouritzin, Michael A., 2005i:60039**
Zhang, Lian Wen (*with* Kočka, Tomáš) Effective dimensions of hierarchical latent class models. (English summary) **2005j:68101**
Zhang, Wen Xiu *see* **Wei, Li Li, 2005h:62209**
Zheng, Zhong Guo *see* **Xu, Jing**
Zhou, Qing[3] *see* **Jensen, Shane T. et al.**

Items listed otherwise than by author

Advances in Bayesian networks ★ Advances in Bayesian networks.
Cuenca ★ Advances in Bayesian networks.
Handbook:
Beta distribution and its applications ★ Handbook of beta distribution and its applications. **2005j:62007**

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Ahn, Hyungtaik *see* **Kitamura, Yuichi[2] et al., 2005h:62028**
Angelini, Claudia (*with* Sapatinas, Theofanis) Empirical Bayes approach to wavelet regression using ε-contaminated priors. (English summary)
Artís Ortuño, Manuel *see* **Moreno, Rosina et al.,** (**2005g:62003**)
Berikov, V. B. A priori estimates for recognition accuracy in the case of a small training sample size. (Russian. Russian summary) **2005a:62030**
Chen, Ling[6] (*with* Wei, Lai Sheng) Empirical Bayes test problems for continuous one-parameter exponential families: in the case of NA samples. (Chinese. English and Chinese summaries) **2005b:62022**
Das, Kalyan *see* **Naskar, Malay**
Ding, Xiao *see* **Wei, Lai Sheng, 2005d:62018**
Eskandari, Farzad (*with* Meshkani, Mohammad R.) Empirical Bayes analysis of log-linear models for a generalized finite stationary Markov chain. (English summary) **2005a:62031**
Gao, Shesheng *see* **Shi, Yi Min et al., 2005b:62024** *and* **2005k:62020**
Gupta, Shanti S. *see* **Li, Jianjun, 2005b:62023**
Hu, Er Qin (*with* Liu, Ci Hua) Empirical Bayes test for a continuous one-parameter exponential family. (Chinese. English and Chinese summaries) **2005h:62025**
Jiménez, Raúl (*with* Yukich, J. E.) Statistical distances based on Euclidean graphs. (English summary) **2005h:62026**
Johnstone, Iain M. (*with* Silverman, Bernard W.) Needles and straw in haystacks: empirical Bayes estimates of possibly sparse sequences. (English summary) **2005h:62027**
Kitamura, Yuichi[2] (*with* Tripathi, Gautam; Ahn, Hyungtaik) Empirical likelihood-based inference in conditional moment restriction models. (English summary) **2005h:62028**
Koop, Gary (*with* Poirier, Dale J.) Empirical Bayesian inference in a nonparametric regression model. (English summary) (*see* **2005c:62005**)
Lai, Yao-Tsung Empirical Bayes procedure for selecting the best exponential population. (English summary) **2005g:62015**
Li, Jianjun (*with* Gupta, Shanti S.) Optimal rate of empirical Bayes tests for lower truncation parameters. (English summary) **2005b:62023**
Liang, Ta Chen Empirical Bayes estimation with random right censoring. (English summary) **2005j:62022**
— Empirical Bayes estimation of residual survival function at age t. (English summary) **2005h:62029**
— On optimal convergence rate of empirical Bayes tests. (English summary) **2005i:62024**
Liu, Ci Hua *see* **Hu, Er Qin, 2005h:62025**
López-Bazo, Enrique *see* **Moreno, Rosina et al.,** (**2005g:62003**)
Meshkani, Mohammad R. *see* **Eskandari, Farzad, 2005a:62031**
Mohammadzadeh, Mohsen Empirical Bayes estimation with kernel and spline density estimators for one parameter exponential family. (English summary)
Moreno, Rosina (*with* López-Bazo, Enrique; Vayá, Esther; Artís Ortuño, Manuel) External effects and cost of production. (*see* **2005g:62003**)
Naskar, Malay (*with* Das, Kalyan) Inference in Dirichlet process mixed generalized linear models by using Monte Carlo EM. (English summary)
Ohnishi, Toshio[2] *see* **Yanagimoto, Takemi,** (**2005b:62010**)
Peng, Guo Qiang[2] (*with* Wen, Jun) The properties of empirical Euclidean likelihood about large samples. (Chinese. English and Chinese summaries) **2005k:62019**
Poirier, Dale J. *see* **Koop, Gary,** (**2005c:62005**)
Sapatinas, Theofanis *see* **Angelini, Claudia**
Shi, Xiaolin *see* **Shi, Yi Min et al., 2005b:62024**; **2005c:62013** *and* **2005k:62020**
Shi, Yi Min (*with* Xu, Yong[3]; Shi, Xiaolin) Convergence rate of empirical Bayes test with truncation parameters under the Linex loss. (English summary) **2005c:62013**
— (*with* Shi, Xiaolin; Gao, Shesheng) Empirical Bayes estimation of the truncation parameter with asymmetric loss function using NA samples. (English summary) **2005b:62024**

— (*with* Gao, Shesheng; Shi, Xiaolin) Convergence rate of empirical Bayes estimation for two-dimensional truncation parameters under linex loss. (English summary) **2005k:62020**
— *see also* **Xu, Yong[3], 2005h:62031** *and* **Wei, Ling, 2005i:62025**
Silverman, Bernard W. *see* **Johnstone, Iain M., 2005h:62027**
Tripathi, Gautam *see* **Kitamura, Yuichi[2] et al., 2005h:62028**
Vayá, Esther *see* **Moreno, Rosina et al., (2005g:62003)**
Wang, Li Chun *see* **Wei, Lai Sheng, 2005h:62030**
Wang, Lichun Bayes and empirical Bayes tests for the life parameter. (English summary) **2005m:62016**
Wei, Lai Sheng (*with* Yuan, Jia Cheng) Empirical Bayes test problem for the failure function based on type II censored samples in exponential distribution. (Chinese. English and Chinese summaries) **2005d:62017**
— (*with* Wang, Li Chun) Asymptotically optimal empirical Bayes estimation for variance components in random effects models. (Chinese. English and Chinese summaries) **2005h:62030**
— (*with* Ding, Xiao) On empirical Bayes estimation of variance components in random effects model. (English summary) **2005d:62018**
— *see also* **Chen, Ling[6], 2005b:62022; Wei, Li, 2005b:62025; Zhang, Wei Ping[4] et al., 2005k:62021** *and* **2005m:62017**
Wei, Li (*with* Wei, Lai Sheng) Empirical Bayes test problems for parameters of scale exponential families. (Chinese. English and Chinese summaries) **2005b:62025**
Wei, Ling (*with* Shi, Yi Min) Asymptotically optimal empirical Bayes test for the parameter of two-sided truncated distribution family under LINEX loss function. (Chinese. English and Chinese summaries) **2005i:62025**
Wen, Jun *see* **Peng, Guo Qiang[2], 2005k:62019**
Xu, Yong[3] (*with* Shi, Yi Min) Empirical Bayes test for truncation parameters using linex loss. (English summary) **2005h:62031**
— *see also* **Shi, Yi Min et al., 2005c:62013**
Yanagimoto, Takemi (*with* Ohnishi, Toshio[2]) Simultaneous estimation of a mean vector based on mean conjugate priors. (English summary) (*see* **2005b:62010**)
Yang, Yaning *see* **Zhang, Wei Ping[4] et al., 2005k:62021**
Yuan, Jia Cheng *see* **Wei, Lai Sheng, 2005d:62017**
Yukich, J. E. *see* **Jiménez, Raúl, 2005h:62026**
Zhang, Wei Ping[4] (*with* Wei, Lai Sheng) Asymptotically optimal empirical Bayes estimators of variance components in a one-way classification random effect model. (Chinese. English and Chinese summaries) **2005m:62017**
— (*with* Wei, Lai Sheng; Yang, Yaning) The superiority of empirical Bayes estimator of parameters in linear model. (English summary) **2005k:62021**

Items with secondary classifications in 62C12

Abu-Dayyeh, Walid A. (*with* Madan, Kailash C.) The admissibility of the LRT for the exponential family model. (English summary) **2005m:62048**
Beneš, Viktor *see* **Jiruše, Marek et al.**
Brazauskas, Vytaras (*with* Kaiser, Thomas) Discussion on: "Empirical estimation of risk measures and related quantities" [N. Am. Actuar. J. 7 (2003), no. 4, 44–54; MR2061236] by B. L. Jones and R. Zitikis.
Fahrmeir, Ludwig (*with* Kneib, Thomas; Lang, Stefan[2]) Penalized structured additive regression for space-time data: a Bayesian perspective. (English summary)
Freund, Yoav (*with* Mansour, Yishay; Schapire, Robert E.) Generalization bounds for averaged classifiers. (English summary) **2005h:62167**
Ghilardi, G. (*with* Orsini, N.) Random intercept linear models and estimators for the evaluation of educational systems. (Italian. English and Italian summaries)
Ghosh, Malay (*with* Kim, Dal Ho; Kim, Myung Joon) Asymptotic mean squared error of constrained James-Stein estimators. (English summary) **2005g:62056**
Grömping, Ulrike (*with* Weimann, Ulla) The asymptotic distribution of the partial attributable risk in cross-sectional studies. (English summary)
Gupta, Shanti S. (*with* Li, Jianjun) On empirical Bayes procedures for selecting good populations in a positive exponential family. (English summary) **2005k:62060**
Huang, Wên T'ao (*with* Lai, Yao-Tsung) Selecting the best population with two controls: an empirical Bayes approach. (English summary) **2005i:62048**
Ĭvan'ko, Yu. O. Asymptotics of empirical-Bayes risk in the classification of a mixture of two components with varying concentrations. (Ukrainian. Ukrainian summary) **2005i:62095**
Jiruše, Marek (*with* Machek, Josef; Beneš, Viktor; Zeman, Petr) A Bayesian estimate of the risk of tick-borne diseases. (English summary)
(Jones, Bruce L.) *see* **Brazauskas, Vytaras**
Kaiser, Thomas *see* **Brazauskas, Vytaras**
Karunamuni, Rohana J. (*with* Zhang, Shunpu) Optimal linear Bayes and empirical Bayes estimation and prediction of the finite population mean. (English summary) **2005a:62077**
Kim, Dal Ho *see* **Ghosh, Malay et al., 2005g:62056**
Kim, Myung Joon *see* **Ghosh, Malay et al., 2005g:62056**
Kneib, Thomas *see* **Fahrmeir, Ludwig et al.**
Lai, Tze Leung (*with* Shih, Mei-Chiung; Zhu, Guangrui) Statistics in pharmacology and pre-clinical studies. (*see* **2005c:62003**)
Lai, Yao-Tsung *see* **Huang, Wên T'ao, 2005i:62048**
Lang, Stefan[2] *see* **Fahrmeir, Ludwig et al.**
Lee, Peter M. ★ Bayesian statistics. **2005a:62005**
Lewis, Charles (*with* Thayer, Dorothy T.) A loss function related to the FDR for random effects multiple comparisons. (English summary)
Li, Jianjun *see* **Gupta, Shanti S., 2005k:62060**
Liang, Ta Chen Empirical Bayes estimation of mean lifetime for an exponential distribution: unequal sample sizes case. (English summary) **2005k:62066**
Lin, Zheng Yan Selection for the best logistic population. (Chinese. English and Chinese summaries) **2005b:62050**
Machek, Josef *see* **Jiruše, Marek et al.**
Madan, Kailash C. *see* **Abu-Dayyeh, Walid A., 2005m:62048**
Mansour, Yishay *see* **Freund, Yoav et al., 2005h:62167**
Mao, Chang Xuan Predicting the conditional probability of discovering a new class. (English summary) **2005g:62166**
Meir, Ron (*with* Zhang, Tong[2]) Generalization error bounds for Bayesian mixture algorithms. (English summary) **2005h:68055**
Orsini, N. *see* **Ghilardi, G.**
Rivoirard, Vincent Thresholding procedure with priors based on Pareto distributions. (English summary) **2005c:62066**
Schapire, Robert E. *see* **Freund, Yoav et al., 2005h:62167**
Shih, Mei-Chiung *see* **Lai, Tze Leung et al., (2005c:62003)**
Thayer, Dorothy T. *see* **Lewis, Charles**
Weimann, Ulla *see* **Grömping, Ulrike**
Xu, Jing (*with* Zheng, Zhong Guo) Bayes estimation of causal effect for a counterfactural model. (English and Chinese summaries)
Zeman, Petr *see* **Jiruše, Marek et al.**
Zhang, Shunpu *see* **Karunamuni, Rohana J., 2005a:62077**
Zhang, Tong[2] *see* **Meir, Ron, 2005h:68055**
Zheng, Zhong Guo *see* **Xu, Jing**
Zhu, Guangrui *see* **Lai, Tze Leung et al., (2005c:62003)**
(Zitikis, Ricărdas) *see* **Brazauskas, Vytaras**

62C15 Admissibility

Asgharzadeh, A. *see* **Sanjari Farsipour, N., 2005b:62026a** *and* **2005b:62026b**
Dong, Yan (*with* Xu, Xingzhong; Lu, Chang Yu) Admissibility of nonnegative quadratic estimators for error variance with respect to restricted ellipsoidal parameter space. (English and Chinese summaries) **2005e:62012**
Hu, Xue Mei *see* **Wang, Zhi Zhong[2]**
Li, Sheng Hong *see* **Zhou, Zhan Gong et al.**
Lu, Chang Yu *see* **Dong, Yan et al., 2005e:62012**
Meshkani, Mohammad R. Limiting properties of empirical Bayes estimators in a two-factor experiment under inverse Gaussian model. (English and Persian summaries) **2005g:62016**
Mouchart, Michel (*with* Scheihing, Eliana) Bayesian evaluation of non-admissible conditioning. (English summary)
Peng, Xiang Yang *see* **Zhou, Zhan Gong et al.**
Sakamoto, Yuji (*with* Takada, Yoshikazu; Yoshida, Nakahiro) Expansions of the coverage probabilities of prediction region based on a shrinkage estimator. (English summary) **2005j:62023**
Sanjari Farsipour, N. (*with* Asgharzadeh, A.) Estimation of a normal mean relative to balanced loss functions. (English summary) **2005b:62026a**
— (*with* Asgharzadeh, A.) Estimation of a normal mean relative to balanced loss functions. (English summary) **2005b:62026b**
Scheihing, Eliana *see* **Mouchart, Michel**
Takada, Yoshikazu *see* **Sakamoto, Yuji et al., 2005j:62023**
Wang, Hsiuying Improved estimation of accuracy in simple hypothesis versus simple alternative testing. (English summary) **2005e:62013**
— Improved confidence estimators for confidence sets of location parameters. (English summary) **2005g:62017**
Wang, Zhi Zhong[2] (*with* Hu, Xue Mei) Admissibility of linear estimators in a growth curve model with respect to an incomplete ellipsoidal restriction. (Chinese. English and Chinese summaries)
Xu, Li Wen (*with* Yu, Sheng Hua) Admissibility of linear prediction under matrix loss. (Chinese. English and Chinese summaries) **2005k:62022**
— *see also* **Yu, Sheng Hua, 2005k:62023**
Xu, Xingzhong *see* **Dong, Yan et al., 2005e:62012**
Yoshida, Nakahiro *see* **Sakamoto, Yuji et al., 2005j:62023**
Yu, Qiqing Sufficient condition for admissibility of the Wilcoxon test in the classical two-sample problem. (English summary) **2005g:62018**
Yu, Sheng Hua (*with* Xu, Li Wen) Admissibility of linear prediction under quadratic loss. (Chinese. English and Chinese summaries) **2005k:62023**
— *see also* **Xu, Li Wen, 2005k:62022**
Zhou, Zhan Gong (*with* Peng, Xiang Yang; Li, Sheng Hong) Minimax admissibility characterization of non-homogeneous linear estimates of multivariate random regression coefficient and parameters under matrix loss function. (Chinese. English and Chinese summaries)
Zou, Guo Hua Admissible estimation for finite population when the parameter space is restricted [MR1894836 (2003d:62019)]. (Chinese. English and Chinese summaries)

Items with secondary classifications in 62C15

Bairamov, I. (*with* Eryilmaz, Serkan) Characterization of symmetry and exceedance models in multivariate FGM distributions. (English summary) **2005m:62028**
Bansal, Naveen K. *see* **Misra, Neeraj et al., 2005f:62035**
Chang, In Hong (*with* Mukerjee, Rahul) Asymptotic results on the frequentist mean squared error of generalized Bayes point predictors. (English summary) **2005c:62048**
Chen, Gui Jing *see* **Cheng, Zheng Dong, 2005h:62070**
Cheng, Zheng Dong A class of estimates of the G-M linear model. (Chinese. English and Chinese summaries) **2005f:62109**
— (*with* Chen, Gui Jing) Biased estimates in a multivariate linear model. (Chinese. English and Chinese summaries) **2005h:62070**
Demchuk, Eugene *see* **Misra, Neeraj et al., 2005i:62084**
Du, Yu Jing (*with* Lai, Min) Parameter estimation of the exponential distribution under q-symmetric entropy loss function. (Chinese. English and Chinese summaries) **2005j:62049**
Eryilmaz, Serkan *see* **Bairamov, I., 2005m:62028**
Feng, Wen Juan Linear admissible minimax estimation of the parameter matrix in a general growth curve model. (Chinese. English and Chinese summaries)
Groß, Jürgen (*with* Markiewicz, Augustyn) Characterizations of admissible linear estimators in the linear model. (English summary) **2005e:62099**
Hamedani, G. G. *see* **Misra, Neeraj et al., 2005f:62035**
Hendriks, Harrie The admissibility of the empirical mean location for the matrix von Mises-Fisher family. (English summary) **2005i:62082**

Hobert, James P. (*with* Marchev, Dobrin; Schweinsberg, Jason) Stability of the tail Markov chain and the evaluation of improper priors for an exponential rate parameter. (English summary) **2005f:60146**
Hu, Xue Mei *see* **Wang, Zhi Zhong[2]**
Inada, Koichi *see* **Takeuchi, Akinobu et al.**, (**2005b:62010**)
Kim, Hyang Mi (*with* Saleh, A. K. Md. Ehsanes) Improved estimation of regression parameters in measurement error models. (English summary) **2005g:62043**
Komaki, Fumiyasu Simultaneous prediction of independent Poisson observables. (English summary) **2005k:62223**
Kourouklis, Stavros *see* **Petropoulos, Constantinos**, **2005k:62069**
Kumar, Narinder (*with* Mehta, Gobind P.; Kumar, Virender) On two new classes of subset selection procedures for location parameters. (English summary) **2005a:62034**
Kumar, Virender *see* **Kumar, Narinder et al.**, **2005a:62034**
Lai, Min *see* **Du, Yu Jing**, **2005j:62049**
Marchand, Éric (*with* Strawderman, William E.) Estimation in restricted parameter spaces: a review. (English summary) **2005j:62067**
Marchev, Dobrin *see* **Hobert, James P. et al.**, **2005f:60146**
Markiewicz, Augustyn *see* **Groß, Jürgen**, **2005e:62099**
Mehta, Gobind P. *see* **Kumar, Narinder et al.**, **2005a:62034**
Misra, Neeraj (*with* Bansal, Naveen K.; Hamedani, G. G.) On estimating the largest scale parameter. (English summary) **2005f:62035**
— (*with* Singh, Harshinder; Demchuk, Eugene) Estimation of the entropy of a multivariate normal distribution. (English summary) **2005i:62084**
Mizera, Ivan (*with* Müller, Christine H.) Location-scale depth. (English summary) **2005g:62096**
Mukerjee, Rahul *see* **Chang, In Hong**, **2005c:62048**
Müller, Christine H. *see* **Mizera, Ivan**, **2005g:62096**
Nagao, Hisao *see* **Takada, Yoshikazu**, **2005i:62118**
Pan, Hong *see* **Wang, De Hui et al.**, **2005g:62057**
Petropoulos, Constantinos (*with* Kourouklis, Stavros) Estimation of a scale parameter in mixture models with unknown location. (English summary) **2005k:62069**
Saleh, A. K. Md. Ehsanes *see* **Kim, Hyang Mi**, **2005g:62043**
Schweinsberg, Jason *see* **Hobert, James P. et al.**, **2005f:60146**
Sen, Pranab Kumar[1] *see* **Tsai, Ming-Tien**, **2005a:62144**
Singh, Harshinder *see* **Misra, Neeraj et al.**, **2005i:62084**
Song, Li Xin[1] *see* **Wang, Zhong Qiang et al.**, **2005g:62045**
Strawderman, William E. *see* **Marchand, Éric**, **2005j:62067**
Takada, Yoshikazu (*with* Nagao, Hisao) Asymptotic improvement of the sample mean vector for sequential point estimation of a multivariate normal mean with a LINEX loss function. (English summary) **2005i:62118**
Takeuchi, Akinobu (*with* Yadohisa, Hiroshi; Inada, Koichi) Measures and admissibilities for the structure of clustering. (English summary) (*see* **2005b:62010**)
Tsai, Ming-Tien (*with* Sen, Pranab Kumar[1]) On inadmissibility of Hotelling T^2-tests for restricted alternatives. (English summary) **2005a:62144**
Walker, Elbert A. Estimability and admissibility in sample survey models. **2005k:62025**
Wang, De Hui (*with* Zhao, Shi Shun; Pan, Hong) Statistics inferences of the number of psychological state under entropy loss function. (Chinese. English and Chinese summaries) **2005g:62057**
— *see also* **Wang, Zhong Qiang et al.**, **2005g:62045**
Wang, Zhi Zhong[2] (*with* Hu, Xue Mei) General admissibility for linear estimators of multivariate regression coefficients with respect to a restricted parameter set. (English and Chinese summaries)
Wang, Zhong Qiang (*with* Wang, De Hui; Song, Li Xin[1]) Estimation of scale parameter of the normal distribution under a symmetric loss function. (Chinese. English and Chinese summaries) **2005g:62045**
Yadohisa, Hiroshi *see* **Takeuchi, Akinobu et al.**, (**2005b:62010**)
Zhao, Shi Shun *see* **Wang, De Hui et al.**, **2005g:62057**

62C20 Minimax procedures

Bertin, Karine Asymptotically exact minimax estimation in sup-norm for anisotropic Hölder classes. (English summary) **2005i:62026**
Braess, Dietrich (*with* Forster, Jürgen; Sauer, Thomas; Simon, Hans Ulrich) How to achieve minimax expected Kullback-Leibler distance from an unknown finite distribution. (English summary) (*see* **2005a:68003**)
Csajková, A. Urbánová *see* **Ševčovič, Daniel**
Dawid, A. Philip *see* **Grünwald, Peter D.**, **2005g:62019**
Forster, Jürgen *see* **Braess, Dietrich et al.**, (**2005a:68003**)
Ghazvininejad, D. *see* **Sanjari Farsipour, N.**, **2005j:62024**
Grünwald, Peter D. (*with* Dawid, A. Philip) Game theory, maximum entropy, minimum discrepancy and robust Bayesian decision theory. (English summary) **2005g:62019**
He, Can Zhi *see* **Yu, Sheng Hua**, **2005d:62020**
Huo, Xiaoming Minimax correlation between a line segment and a beamlet. (English summary) **2005m:62018**
Kim, Peter T. (*with* Koo, Ja-Yong; Park, Heon Jin) Sharp minimaxity and spherical deconvolution for super-smooth error distributions. (English summary) **2005h:62032**
Koo, Ja-Yong *see* **Kim, Peter T. et al.**, **2005h:62032**
Levy, Bernard C. (*with* Nikoukhah, Ramine) Robust least-squares estimation with a relative entropy constraint. (English summary) **2005d:62019**
Matias, C. (*with* Taupin, M.-L.) Minimax estimation of linear functionals in the convolution model. (English summary) **2005i:62027**
Nikoukhah, Ramine *see* **Levy, Bernard C.**, **2005d:62019**
Park, Heon Jin *see* **Kim, Peter T. et al.**, **2005h:62032**
Sanjari Farsipour, N. (*with* Ghazvininejad, D.) Minimax estimation of a bounded binomial parameter. (English summary) **2005j:62024**
Sauer, Thomas *see* **Braess, Dietrich et al.**, (**2005a:68003**)
Semenikhin, K. V. Optimality of linear estimation algorithms in the minimax identification problem. (Russian. Russian summary) **2005h:62033**
Ševčovič, Daniel (*with* Csajková, A. Urbánová) On a two-phase minmax method for parameter estimation of the Cox, Ingersoll, and Ross interest rate model. (English summary)
Simon, Hans Ulrich *see* **Braess, Dietrich et al.**, (**2005a:68003**)
Taupin, M.-L. *see* **Matias, C.**, **2005i:62027**
Xie, Danxia *see* **Xie, Min Yu**, **2005a:62032**
Xie, Min Yu (*with* Xie, Danxia) General minimax estimators on the location matrix of a mixture of normals. (English summary) **2005a:62032**
Yu, Sheng Hua Linear minimax estimators of estimable functions in a general Gauss-Markov model under the quadratic loss function. (Chinese. English and Chinese summaries) **2005c:62014**
— (*with* He, Can Zhi) Linear minimax estimators of estimable functions in a general Gauss-Markov model. (Chinese. English and Chinese summaries) **2005d:62020**

Items with secondary classifications in 62C20

Abramovich, Felix (*with* Amato, Umberto; Angelini, Claudia) On optimality of Bayesian wavelet estimators. (English summary) **2005m:62070**
Akahira, Masafumi *see* **Maihara, Hirosuke**
Al-Shingiti, Arwa M. *see* **Huda, Shahariar**
Amato, Umberto *see* **Abramovich, Felix et al.**, **2005m:62070**
Angelini, Claudia *see* **Abramovich, Felix et al.**, **2005m:62070**
Arnold, Bernhard F. (*with* Stahlecker, Peter) Some properties of the relative squared error approach to linear regression analysis. (English summary) **2005b:62156**
Barron, Andrew *see* **Liang, Feng[1]**, **2005f:94040**
Begun, Alexander Zaharovich (*with* Seidel, Wilfried) A relaxation procedure for calculating (Γ-)minimax optimal designs. (English summary) **2005h:62192**
Ben-Tal, Aharon *see* **Eldar, Yonina C. et al.**, **2005f:93161** *and* **2005h:93156**
Berger, Martijn P. F. (*with* Tan, Frans E. S.) Robust designs for linear mixed effects models. (English summary)
Bhuiyan, K. J. *see* **Podder, Chandan Kumer et al.**, **2005b:62056**
Boratyńska, Agata Two-point priors and minimax estimation of a bounded parameter under convex loss. (English summary) **2005m:62014**
Borkar, Vivek S. (*with* Mitter, Sanjoy K.; Venkatesh, Saligrama) Variations on a theme by Neyman and Pearson. (English summary) **2005h:62062**
Bunea, Florentina (*with* Wegkamp, Marten H.) Two-stage model selection procedures in partially linear regression. (English and French summaries) **2005d:62049**
Butucea, Cristina Deconvolution of supersmooth densities with smooth noise. (English and French summaries) **2005f:62060**
Cai, T. Tony (*with* Low, Mark G.) Minimax estimation of linear functionals over nonconvex parameter spaces. (English summary) **2005d:62092**
— (*with* Low, Mark G.) An adaptation theory for nonparametric confidence intervals. (English summary) **2005h:62143**
Chebana, Fateh On the optimization of the weighted Bickel-Rosenblatt test. (English summary) **2005d:62077**
Chen, Shande A class of parameter functions for which the unbiased estimator does not exist. (English summary) **2005j:62047**
Dencker, Peter[2] (*with* Liese, Friedrich) Local maximin properties of tests in Gaussian shift experiments. (English summary) **2005i:62075**
Du, Yu Jing (*with* Lai, Min) Parameter estimation of the exponential distribution under q-symmetric entropy loss function. (Chinese. English and Chinese summaries) **2005j:62049**
Efromovich, Sam Distribution estimation for biased data. (English summary) **2005d:62051**
— On sequential data-driven density estimation. (English summary) **2005f:62062**
Eldar, Yonina C. (*with* Merhav, Neri) A competitive minimax approach to robust estimation of random parameters. (English summary) **2005k:62088**
— (*with* Ben-Tal, Aharon; Nemirovskii, Arkadii) Linear minimax regret estimation of deterministic parameters with bounded data uncertainties. (English summary) **2005f:93161**
— (*with* Ben-Tal, Aharon; Nemirovskii, Arkadii) Robust mean-squared error estimation in the presence of model uncertainties. (English summary) **2005h:93156**
Ermakov, M. S. Asymptotically minimax and Bayes estimation in a deconvolution problem. (English summary) **2005a:62089**
— Minimax detection of a signal in weighted Gaussian white noise. (Russian. English and Russian summaries) **2005k:60218**
Feng, Wen Juan Linear admissible minimax estimation of the parameter matrix in a general growth curve model. (Chinese. English and Chinese summaries)
Ghosh, Malay (*with* Kim, Dal Ho; Kim, Myung Joon) Asymptotic mean squared error of constrained James-Stein estimators. (English summary) **2005g:62056**
Golubev, Yuri K. (*with* Levit, Boris) An oracle approach to adaptive estimation of linear functionals in a Gaussian model. (English summary) **2005k:62089**
— The principle of penalized empirical risk in severely ill-posed problems. (English summary) **2005h:62106**
Huda, Shahariar (*with* Al-Shingiti, Arwa M.) On second-order A-, D- and E-minimax designs for estimating slopes in extrapolation and restricted interpolation regions. (English summary)
Hunter, David R. MM algorithms for generalized Bradley-Terry models. (English summary) **2005b:62049**
Inglot, Tadeusz (*with* Ledwina, Teresa) On consistent minimax distinguishability and intermediate efficiency of Cramér-von Mises test. (English summary) **2005k:62059**
Karim, Amranul *see* **Podder, Chandan Kumer et al.**, **2005b:62056**
Kim, Dal Ho *see* **Ghosh, Malay et al.**, **2005g:62056**
Kim, Kiseon *see* **Shevlyakov, G. L.**
Kim, Myung Joon *see* **Ghosh, Malay et al.**, **2005g:62056**
Klemelä, Jussi Optimal recovery and statistical estimation in L_p Sobolev classes. (English summary) **2005b:62086**
Kolaczyk, Eric D. (*with* Nowak, Robert D.) Multiscale likelihood analysis and complexity penalized estimation. (English summary) **2005d:62059**
Kubokawa, Tatsuya (*with* Srivastava, Muni S.) Improved empirical Bayes ridge regression estimators under multicollinearity. (English summary) **2005f:62112**
— Minimaxity in estimation of restricted parameters. (English summary) **2005k:62082**
Lai, Min *see* **Du, Yu Jing**, **2005j:62049**
Lambert-Lacroix, Sophie *see* **Yuditskiĭ, A. B.**, **2005b:62091**

Ledwina, Teresa *see* **Inglot, Tadeusz, 2005k:62059**
Levit, Boris (*with* Stepanova, N.) Efficient estimation of multivariate analytic functions in cube-like domains. (English summary) **2005i:62060**
— *see also* **Golubev, Yuri K., 2005k:62089**
Li, Sheng Hong *see* **Zhou, Zhan Gong et al.**
Li, Xing Si (*with* Pan, Shaohua[2]) Duality for entropy optimization and its applications. (English summary) **2005h:90156**
Liang, Feng[1] (*with* Barron, Andrew) Exact minimax strategies for predictive density estimation, data compression, and model selection. (English summary) **2005f:94040**
Liese, Friedrich *see* **Dencker, Peter[2], 2005i:62075**
López-Fidalgo, Jesús *see* **Tommasi, Chiara**
Low, Mark G. *see* **Cai, T. Tony, 2005d:62092** *and* **2005h:62143**
Maihara, Hirosuke (*with* Akahira, Masafumi) Weighted loss functions for set estimation and testing hypotheses. (English summary)
Marchand, Éric (*with* Strawderman, William E.) Estimation in restricted parameter spaces: a review. (English summary) **2005j:62067**
Maslov, V. P. Average statistical information about a convex function, and general linear equations for the space min-max. (Russian)
McElroy, T. (*with* Politis, Dimitris N.) Limit theorems for heavy-tailed random fields with subsampling applications. (English summary) **2005a:62092**
Merhav, Neri *see* **Eldar, Yonina C., 2005k:62088**
Mitter, Sanjoy K. *see* **Borkar, Vivek S. et al., 2005h:62062**
Nemirovskii, Arkadii *see* **Eldar, Yonina C. et al., 2005f:93161** *and* **2005h:93156**
Nowak, Robert D. *see* **Kolaczyk, Eric D., 2005d:62059**
Pan, Shaohua[2] *see* **Li, Xing Si, 2005h:90156**
Peng, Xiang Yang *see* **Zhou, Zhan Gong et al.**
Podder, Chandan Kumer (*with* Roy, Manindra Kumar; Bhuiyan, K. J.; Karim, Amranul) Minimax estimation of the parameter of the Pareto distribution under quadratic and MLINEX loss functions. (English summary) **2005b:62056**
Politis, Dimitris N. *see* **McElroy, T., 2005a:62092**
Pronzato, Luc A minimax equivalence theorem for optimum bounded design measures. (English summary) **2005f:62116**
Roy, Manindra Kumar *see* **Podder, Chandan Kumer et al., 2005b:62056**
Seidel, Wilfried *see* **Begun, Alexander Zaharovich, 2005h:62192**
Shalabh (*with* Toutenburg, H.) Pseudo-minimax linear and mixed regression estimation of regression coefficients when prior estimates are available. (English summary) **2005c:62044**
Shevlyakov, G. L. (*with* Kim, Kiseon) Huber's minimax approach in distribution classes with bounded variances and subranges with applications to robust detection of signals. (English summary)
Srivastava, Muni S. *see* **Kubokawa, Tatsuya, 2005f:62112**
Stahlecker, Peter *see* **Arnold, Bernhard F., 2005b:62156**
Stepanova, N. *see* **Levit, Boris, 2005i:62060**
Strawderman, William E. *see* **Marchand, Éric, 2005j:62067**
Tan, Frans E. S. *see* **Berger, Martijn P. F.**
Tommasi, Chiara (*with* López-Fidalgo, Jesús) Minimax designs for a parametrization of binary response models. (English summary)
Toutenburg, H. *see* **Shalabh, 2005c:62044**
Venkatesh, Saligrama *see* **Borkar, Vivek S. et al., 2005h:62062**
Wegkamp, Marten H. *see* **Bunea, Florentina, 2005d:62049**
Wilczyński, Maciej Minimax estimation in the linear model with a relative squared error. (English summary) **2005h:62178**
Xu, Li Wen (*with* Yu, Sheng Hua) The linear minimax estimate of estimable function in a general normal linear model. (Chinese. English and Chinese summaries) **2005j:62143**
Yu, Sheng Hua The linear minimax predictor in finite populations with arbitrary rank under quadratic loss function. (Chinese. English and Chinese summaries) **2005h:62268**
— *see also* **Xu, Li Wen, 2005j:62143**
Yuditskiĭ, A. B. (*with* Lambert-Lacroix, Sophie) On minimax density estimation on $\mathbb{R}$. (English summary) **2005b:62091**
Zhang, Haimeng Asymptotic efficiency of estimation in the partial Koziol-Green model. (English summary) **2005e:62074**
Zhou, Zhan Gong (*with* Peng, Xiang Yang; Li, Sheng Hong) Minimax admissibility characterization of non-homogeneous linear estimates of multivariate random regression coefficient and parameters under matrix loss function. (Chinese. English and Chinese summaries)
Zioutas, Georgios Quadratic mixed integer programming models in minimax robust regression estimators. (English summary) (*see* **2005c:62006**)

62C25 Compound decision problems

Items with secondary classifications in 62C25

Richards, Donald St. P. Total positivity properties of generalized hypergeometric functions of matrix argument. (English summary) **2005e:33008**

62C99 None of the above, but in this section

Amirteimoori, Alireza *see* **Jahanshahloo, Gholamreza et al., 2005h:62034**
Jahanshahloo, Gholamreza (*with* Amirteimoori, Alireza; Kordrostami, Sohrab) Measuring the multi-component efficiency with shared inputs and outputs in data envelopment analysis. (English summary) **2005h:62034**
Kordrostami, Sohrab *see* **Jahanshahloo, Gholamreza et al., 2005h:62034**

Items with secondary classifications in 62C99

Clempner, Julio Optimizing the decision process on Petri nets via a Lyapunov-like function. (English summary)
Fujikoshi, Yasunori *see* **Gupta, Arjun K. et al., 2005h:62155**
Gupta, Arjun K. (*with* Sheena, Y.; Fujikoshi, Yasunori) Estimation of the eigenvalues of noncentrality parameter matrix in noncentral Wishart distribution. (English summary) **2005h:62155**
Lugosi, Gábor (*with* Wegkamp, Marten H.) Complexity regularization via localized random penalties. (English summary) **2005h:62169**
Marchand, Éric (*with* Strawderman, William E.) Estimation in restricted parameter spaces: a review. (English summary) **2005j:62067**
Pujawan, I Nyoman The effect of lot sizing rules on order variability. (English summary)
Sheena, Y. *see* **Gupta, Arjun K. et al., 2005h:62155**
Strawderman, William E. *see* **Marchand, Éric, 2005j:62067**
Wegkamp, Marten H. *see* **Lugosi, Gábor, 2005h:62169**
Wei, Li Li (*with* Zhang, Wen Xiu) A Bayesian approach to multiple fuzzy hypothesis testing. (Chinese. English and Chinese summaries) **2005j:62018**
Zhang, Wen Xiu *see* **Wei, Li Li, 2005j:62018**

62D05 Sampling theory, sample surveys

Agrawal, Mool Chandra (*with* Midha, Chand K.) Efficient estimators of different types for domains. (English summary) (*see* **2005a:62014**)
— (*with* Roy, Dulal Chandra) Efficient imputation-based regression-type estimators in the presence of non-response. (English summary)
Ahmed, Md. Saleh General chain estimators under multi phase sampling. (English summary) **2005a:62033**
Ahmed, Zahoor (*with* Shahbaz, Muhammad Qaiser; Hanif, Muhammad) Generalization of Sampford selection procedure. (English summary)
Ahn, Chul W. *see* **Jung, Sin-Ho**
Ahsan, M. J. *see* **Khan, E. A. et al.**
Aires, Nibia (*with* Rosén, Bengt) On inclusion probabilities and relative estimator bias for Pareto πps sampling. (English summary)
Ali Ghazali, Syed Shakir (*with* Gilani, Ghausia Masood) Variance of the sample mean due to coders. (English summary)
Amenta, Pietro (*with* Sarnacchiaro, Pasquale) Tensorial co-structure analysis for the full multi modules customer satisfaction evaluation. (English summary) (*see* **2005f:62007**)
Andrich, David *see* **Luo, Guanzhong, (2005i:62003)**
Andronov, A. M. (*with* Fioshin, Maxim) Applications of resampling approach to statistical problems of logical systems. (English summary)
Anido, Carmen (*with* Rivero, Carlos; Valdés, Teófilo) An algorithm based on discrete response regression models suitable to correct the bias of non-response in surveys with several capture tries. (English summary)
Anstreicher, Kurt M. (*with* Lee, Jon[2]) A masked spectral bound for maximum-entropy sampling. (English summary) (*see* **2005f:62009**)
Asmussen, Søren (*with* Kroese, Dirk P.; Rubinstein, Reuven Y.) Heavy tails, importance sampling and cross-entropy. (English summary) **2005i:62028**
Bansal, M. L. *see* **Grewal, I. S. et al.**
Barbe, Ph. (*with* Broniatowski, M.) Blowing number of a distribution for a statistics and loyal estimators. (English summary) **2005m:62019**
Barcena, María Jesús (*with* Tusell, Fernando) Fitting multivariate responses using scalar trees. (English summary) **2005c:62015**
Bar-Lev, Shaul K. (*with* Van der Duyn Schouten, Frank A.) A note on exponential dispersion models which are invariant under length-biased sampling. (English summary) **2005k:62024**
Barreto, Maria Cecília Mendes *see* **Pigato, Francisco, Jr.**
Bécue-Bertaut, Mónica (*with* Lebart, Ludovic) Analyse statistique de réponses ouvertes: application à des enquêtes auprès de lycéens. [Statistical analysis of answers to open-ended questions: application to surveys of high school students] (*see* **2005m:62006**)
Benhenni, Karim (*with* Su, Yingcai) Stepwise sampling procedure for estimating random averages. (English and French summaries)
Berger, Yves G. Variance estimation with Chao's sampling scheme. (English summary) **2005h:62035**
Bhargava, Manoj (*with* Singh, Ravindra) Efficiency comparison of certain randomized response schemes with U-model. (English and Hindi summaries) **2005c:62016**
Bhattacharya, Debopam Asymptotic inference from multi-stage samples. (English summary)
Blaga, Petru P. Weighted uniform sampling method based on spline functions. (English summary) **2005j:62025**
Bose, Sudip On the robustness of the predictive distribution for sampling from finite populations. (English summary) **2005m:62020**
Broniatowski, M. *see* **Barbe, Ph., 2005m:62019**
Buskirk, Trent D. (*with* Lohr, Sharon L.) Asymptotic properties of kernel density estimation with complex survey data. (English summary) **2005h:62036**
Butt, Nadeem Shafique (*with* Shahbaz, Muhammad Qaiser) Modification of Murthy's estimator using general selection procedure for unequal probability sampling without replacement. (English summary)
Causeur, David Optimal sampling from concomitant variables for regression problems. (English summary) **2005h:62037**
Chan, Hock Peng Correction: "Upper bounds and importance sampling of p-values for DNA and protein sequence alignments" [Bernoulli **9** (2003), no. 2, 183–199; MR1997026 (2004e:62017)].
Chang, Horng-Jinh (*with* Wang, Chih-Li; Huang, Kuo-Chung) Using randomized response to estimate the proportion and truthful reporting probability in a dichotomous finite population. (English summary) **2005c:62017**
Chang, Kuang-Chao *see* **Salehi M., Mohammad**
Chaubey, Yogendra P. *see* **Tripathi, T. P.**
Chen, Yi-Liang[1] A test for two-sample problem based on sample spacings. (English summary)
Chen, Yuguo Another look at rejection sampling through importance sampling. (English summary)
Choi, Jai Won *see* **Nandram, Balgobin**
Choudhary, Pankaj K. (*with* Nagaraja, H. N.) Selecting the instrument closest to a gold standard. (English summary) **2005i:62029**
Christofides, Tasos C. Randomized response in stratified sampling. (English summary) **2005h:62038**

Chu, Haitao (*with* Ren, Shiquan; Cole, Stephen R.) Sample size calculations for the mean in a two component nonstandard mixture distribution. (English summary)
Cole, Stephen R. *see* **Chu, Haitao et al.**
Deville, Jean-Claude (*with* Tillé, Yves) Efficient balanced sampling: the cube method. (English summary)
— (*with* Tillé, Yves) Variance approximation under balanced sampling. (English summary) **2005i:62030**
Eapen, Merry (*with* Jose, K. K.) Modified ratio estimators of the finite population mean based on multi-auxiliary information. (English summary)
Favre, Anne-Catherine *see* **Tillé, Yves**
Fich, Faith Ellen *see* **Gum, Benjamin et al., 2005j:62026**
Fioshin, Maxim *see* **Andronov, A. M.**
Friedrich, F. (*with* Winkler, Gerhard; Wittich, Olaf; Liebscher, Volkmar) An elementary rigorous introduction to exact sampling. (English summary) **2005f:62014**
Ghosh, Bhaskar K. (*with* Huang, Wei-Min) The sample size for estimating the binomial parameter with a given margin of error. (English summary) (*see* **2005i:62004**)
Gilani, Ghausia Masood *see* **Ali Ghazali, Syed Shakir**
Gnedin, A. V. Three sampling formulas. (English summary) **2005f:62015**
González Aguilera, Silvia *see* **Rueda García, Maria del Mar**
Gouda, Ashraf A. (*with* Szántai, Tamás) New sampling techniques for calculation of Dirichlet probabilities. (English summary)
Grewal, I. S. (*with* Bansal, M. L.; Singh, Sarjinder) Estimation of population mean of a stigmatized quantitative variable using double sampling. (English and Italian summaries)
— *see also* **Singh, Sarjinder et al., 2005c:62020**
Guha, Subharup (*with* MacEachern, Steven N.; Peruggia, Mario) Benchmark estimation for Markov chain Monte Carlo samples. (English summary) **2005e:62014**
Gum, Benjamin (*with* Lipton, Richard J.; LaPaugh, Andrea; Fich, Faith Ellen) Estimating the maximum. (English summary) **2005j:62026**
Guo, Peng Jiang (*with* Xia, Zhi Ming) Research of a characteristic matrix in a linear model. (Chinese. English and Chinese summaries)
Gurumurthy (*with* Sundarraj, N.; Srivenkataramana, T.) Inverse double sampling from mixture populations. (English summary) **2005j:62027**
Hanif, Muhammad *see* **Ahmed, Zahoor et al.**
Hill, Jennifer Lynn (*with* Reiter, Jerome P.; Zanutto, Elaine L.) A comparison of experimental and observational data analyses. (*see* **2005m:62005**)
Huang, Kuo-Chung *see* **Chang, Horng-Jinh et al., 2005c:62017**
Huang, Tien-Tsai *see* **Yao, Jing-Shing**
Huang, Wei-Min *see* **Ghosh, Bhaskar K., (2005i:62004)**
Hung, Wen-Liang (*with* Wu, Jong-Wuu) A note on determining the number of outliers in a normal sample with unequal variances by least squares procedure. (English summary)
Iglewicz, Boris *see* **Jiang, Qi et al.**
Inoue, Atsushi[4] (*with* Kilian, Lutz) In-sample or out-of-sample tests of predictability: which one should we use? (English summary)
Ip, Edward H. A note on differential information loss in multi-scale educational assessment. (English summary) **2005i:62031**
Isaksson, Annica Frame error modeling for a vehicle speed survey. (English summary) **2005g:62020**
Ismail, Mohd Vaseem (*with* Razzaq, Abdul) Chebyshev solution to a multivariate stratified sampling problem. (English summary)
Jiang, Qi (*with* Snapinn, Steven; Iglewicz, Boris) Calculation of sample size in survival trials: the impact of informative noncompliance. (English summary)
Joarder, Anwarul H. *see* **Singh, Sarjinder et al., 2005c:62020**
Jones, Michael C. *see* **Pewsey, Arthur**
Jose, K. K. *see* **Eapen, Merry**
Jung, Sin-Ho (*with* Ahn, Chul W.) K-sample test and sample size calculation for comparing slopes in data with repeated measurements. (English summary)
Khan, E. A. (*with* Khan, M. G. M.; Ahsan, M. J.) On compromise allocation in multivariate stratified sampling. (English summary)
Khan, M. G. M. *see* **Khan, E. A. et al.**
Khare, B. B. (*with* Sinha, R. R.) Estimation of finite population ratio using two phase sampling scheme in the presence of nonresponse. (English summary)
Kilian, Lutz *see* **Inoue, Atsushi[4]**
Kim, Jae Kwang Finite sample properties of multiple imputation estimators. (English summary) **2005c:62018**
Kott, Phillip S. Randomization-assisted model-based survey sampling. (English summary)
Kotz, Samuel *see* **Nadarajah, Saralees**
Kroese, Dirk P. *see* **Asmussen, Søren et al., 2005i:62028**
Kumar, Narinder (*with* Mehta, Gobind P.; Kumar, Virender) On two new classes of subset selection procedures for location parameters. (English summary) **2005a:62034**
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LaPaugh, Andrea *see* **Gum, Benjamin et al., 2005j:62026**
Latha, M. *see* **Suresh, K. K.**
Lebart, Ludovic *see* **Bécue-Bertaut, Mónica, (2005m:62006)**
Lee, Jon[2] *see* **Anstreicher, Kurt M., (2005f:62009)**
Li, Li Li Post-stratification techniques of systematic sampling for domain estimation. (Chinese. English and Chinese summaries)
Li, Pei Jun[2] Theory of unequal-probability sample estimation and its applications. (Chinese. English and Chinese summaries)
Liebscher, Volkmar *see* **Friedrich, F. et al., 2005f:62014**
Lin, Chii-Dean (*with* Lui, Kung-Jong) Interval based sample size calculation in case-control studies with matched pairs under inverse sampling. (English summary)
Lipton, Richard J. *see* **Gum, Benjamin et al., 2005j:62026**
Liu, Li Ping[4] (*with* Yip, Paul S. F.) Proportional trapping-removal models with contaminated data. (English summary) **2005f:62016**
Lohr, Sharon L. *see* **Buskirk, Trent D., 2005h:62036**
Lui, Kung-Jong *see* **Lin, Chii-Dean**
Luo, Guanzhong (*with* Andrich, David) Weighted likelihood estimation of person locations in an unfolding model for polytomous responses. (English summary) (*see* **2005i:62003**)
MacEachern, Steven N. *see* **Guha, Subharup et al., 2005e:62014**
Marcon, Rebecca A. *see* **Mohr, Donna L.**
Mathur, Nidhi *see* **Singh, Housila Prasad, 2005b:62027**
McLaren, C. H. *see* **Steel, D. G., (2005a:62014)**
McNamee, R. Two-phase sampling for simultaneous prevalence estimation and case detection. (English summary)
Meeden, Glen A noninformative Bayesian approach to domain estimation. (English summary)
Mehta, Gobind P. *see* **Kumar, Narinder et al., 2005a:62034**
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Mohr, Donna L. (*with* Marcon, Rebecca A.) Testing for a 'within-subjects' association in repeated measures data. (English summary)
Molina, Isabel *see* **Santamaría, Laureano et al.**
Morales, Domingo *see* **Santamaría, Laureano et al.**
Mrówka, Edyta Designing confidence intervals under vague information. (*see* **2005i:62007**)
Müller, Peter[2] (*with* Parmigiani, Giovanni; Robert, Christian P.; Rousseau, Judith) Optimal sample size for multiple testing: the case of gene expression microarrays. (English summary)
Nadarajah, Saralees (*with* Kotz, Samuel) Sampling distributions associated with the multivariate t distribution. (English summary)
Nagaraja, H. N. *see* **Choudhary, Pankaj K., 2005i:62029**
Nandram, Balgobin (*with* Choi, Jai Won) Simultaneous concentration bands for continuous random samples. (English summary)
Nelson, Eric J. *see* **Terpstra, Jeff T.**
Nie, Zan Kan *see* **Yan, Zai Zai, 2005c:62022**
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Parmigiani, Giovanni *see* **Müller, Peter[2] et al.**
Peruggia, Mario *see* **Guha, Subharup et al., 2005e:62014**
Pewsey, Arthur (*with* Jones, Michael C.) Discrimination between the von Mises and wrapped normal distributions: just how big does the sample size have to be? (English summary)
Pigato, Francisco, Jr. (*with* Barreto, Maria Cecília Mendes) Performance of mean estimators of skew distributions in ranked-set sampling. (Portuguese. English and Portuguese summaries)
Pratesi, M. (*with* Rocco, E.) Centre sampling for estimating elusive population size. (English and Italian summaries)
Razzaq, Abdul *see* **Ismail, Mohd Vaseem**
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Roy, Dulal Chandra *see* **Agrawal, Mool Chandra**
Rubinstein, Reuven Y. *see* **Asmussen, Søren et al., 2005i:62028**
Rueda García, Maria del Mar (*with* González Aguilera, Silvia) Missing data and auxiliary information in surveys. (English summary)
Saha, Amitava On efficacies of Dalenius-Vitale technique with compulsory versus optional randomized responses from complex surveys. (English summary)
Sahoo, L. N. (*with* Sahoo, R. K.; Senapati, S. C.) Predictive estimation of finite population mean using regression-type estimators in double sampling procedures. (English summary) **2005g:62022**
— (*with* Sahoo, R. K.; Senapati, S. C.) A general class of estimators in two-stage sampling using multi-auxiliary variables. (English summary)
Sahoo, R. K. *see* **Sahoo, L. N. et al., 2005g:62022**
Salehi M., Mohammad (*with* Seber, George A. F.) A general inverse sampling scheme and its application to adaptive cluster sampling. (English summary)
— (*with* Chang, Kuang-Chao) Multiple inverse sampling in post-stratification with subpopulation sizes unknown: a solution for quota sampling. (English summary)
Sampson, Allan R. *see* **Yothers, Greg, (2005h:62008)**
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Scherzer, Otmar Taut-string algorithm and regularization programs with G-norm data fit. (English summary) **2005m:62021**
Seber, George A. F. *see* **Salehi M., Mohammad**
Semiz, Mustafa Determination of compromise integer strata sample sizes using goal programming. (English summary)
Senapati, S. C. *see* **Sahoo, L. N. et al., 2005g:62022**
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— *see also* **Butt, Nadeem Shafique** *and* **Ahmed, Zahoor et al.**
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Siddique, S. *see* **Singh, J. R. et al.**
Singh, Garib Nath (*with* Singh, Vijay Kumar[2]) On the use of auxiliary information in successive sampling. (English and Hindi summaries) **2005a:62035**
— On the improvement of product method of estimation in sample surveys. (English and Hindi summaries) **2005a:62036**
Singh, Housila Prasad (*with* Mathur, Nidhi) Unknown repeated trials in the unrelated question randomized response model. (English summary) **2005b:62027**
— (*with* Mathur, Nidhi) Estimation of population mean when coefficient of variation is known using scrambled response technique. (English summary)
— *see also* **Upadhyaya, Lakshmi N. et al., 2005h:62039**

Singh, J. R. (*with* Siddique, S.; Sayyed, M.) The effect of Markoff model on the performance of variables sampling plans for mean with known coefficient of variation. (English summary)
Singh, Ravindra *see* **Bhargava, Manoj**, 2005c:62016
Singh, Sarjinder ★ Advanced sampling theory with applications. Vol. I, II. **2005b:62028**
— (*with* Grewal, I. S.; Joarder, Anwarul H.) General class of estimators in multi-character surveys. (English summary) **2005c:62020**
— *see also* **Upadhyaya, Lakshmi N. et al.**, 2005h:62039 *and* **Grewal, I. S. et al.**
Singh, Vijay Kumar[2] *see* **Singh, Garib Nath**, 2005a:62035
Sinha, R. R. *see* **Khare, B. B.**
Skilling, John Using the Hilbert curve. (English summary) (*see* **2005c:62004**)
Snapinn, Steven *see* **Jiang, Qi et al.**
Sõstra, Kaja Comparison of small area estimation methods: simulation study in EU-RAREA project. (English summary)
Srivastava, Virendra K. *see* **Toutenburg, H.**, 2005m:62022
Srivenkataramana, T. *see* **Gurumurthy et al.**, 2005j:62027
Steel, D. G. (*with* McLaren, C. H.) In search of a good rotation pattern. (English summary) (*see* **2005a:62014**)
Su, Yingcai *see* **Benhenni, Karim**
Sudakov, A. V. *see* **Sudakov, V. N.**, 2005i:62032
Sudakov, V. N. (*with* Sudakov, A. V.) Dependent Gaussian samples: estimates for the scatter independent of the sample size. (Russian. English and Russian summaries) **2005i:62032**
Sun, Shan Ze *see* **Yang, Bao Hui**
Sundarraj, N. *see* **Gurumurthy et al.**, 2005j:62027
Suresh, K. K. (*with* Latha, M.) Designing Bayesian chain sampling plan (BChSp-1) with minimum angle method. (English summary)
Szántai, Tamás *see* **Gouda, Ashraf A.**
Terpstra, Jeff T. (*with* Nelson, Eric J.) Optimal rank set sampling estimates for a population proportion. (English summary)
Tian, Ru (*with* Sheng, Yan Ping) Composite operating characteristics of an adjusting sampling scheme with discontinuation. (Chinese. English and Chinese summaries) **2005c:62021**
Tillé, Yves (*with* Favre, Anne-Catherine) Coordination, combination and extension of balanced samples. (English summary)
— *see also* **Deville, Jean-Claude**, 2005i:62030
Toutenburg, H. (*with* Srivastava, Virendra K.) Efficient estimation of population mean using incomplete survey data on study and auxiliary characteristics. (English and Italian summaries) **2005m:62022**
Tripathi, T. P. (*with* Chaubey, Yogendra P.) Optimum PPS sampling design based on multivariate information for estimation of several totals. (English summary)
Tusell, Fernando *see* **Barcena, María Jesús**, 2005c:62015
(Udofia, G. A.) *see* **Errata: "Estimation for domains in double sampling for probabilities proportional to size"**
Upadhyaya, Lakshmi N. (*with* Singh, Housila Prasad; Singh, Sarjinder) A class of estimators for estimating the variance of the ratio estimator. (English summary) **2005h:62039**
Valdés, Teófilo *see* **Anido, Carmen et al.**
Van der Duyn Schouten, Frank A. *see* **Bar-Lev, Shaul K.**, 2005k:62024
Walker, Elbert A. Estimability and admissibility in sample survey models. **2005k:62025**
Wang, Chih-Li *see* **Chang, Horng-Jinh et al.**, 2005c:62017
Wilrich, Peter-Theodor Single sampling plans for inspection by variables under a variance component situation. (English summary) (*see* **2005a:62017**)
Winkler, Gerhard *see* **Friedrich, F. et al.**, 2005f:62014
Wittich, Olaf *see* **Friedrich, F. et al.**, 2005f:62014
Wu, Changbao Some algorithmic aspects of the empirical likelihood method in survey sampling. (English summary)
Wu, Jong-Wuu *see* **Hung, Wen-Liang**
Wynn, Henry P. Maximum entropy sampling and general equivalence theory. (English summary) **2005g:62023**
Xia, Zhi Ming *see* **Guo, Peng Jiang**
Yan, Zai Zai (*with* Nie, Zan Kan) A fair comparison of randomized response strategies. (Chinese. English and Chinese summaries) **2005c:62022**
Yang, Bao Hui (*with* Sun, Shan Ze) The effect and double adjustment of the condition effect in split panel surveys [MR1986638 (2004b:62023)]. (Chinese. English and Chinese summaries)
Yao, Jing-Shing (*with* Huang, Tien-Tsai) Fuzzy statistical analysis based on rating items as the linguistic variables. (English summary)
Yip, Paul S. F. *see* **Liu, Li Ping[4]**, 2005f:62016
Yothers, Greg (*with* Sampson, Allan R.) Inference guided data exploration. (English summary) (*see* **2005h:62008**)
Zamora, L. Study of various ratio-type estimators, in the framework of model-based inference, obtained under simple random sampling and double random sampling. (Spanish. English and Spanish summaries)
Zanutto, Elaine L. *see* **Hill, Jennifer Lynn et al.**, (2005m:62005)
Zheng, Gang[1] Some remarks on the Fisher information in ranked set samples. (English summary) **2005a:62037**

Items listed otherwise than by author

Errata:
"Estimation for domains in double sampling for probabilities proportional to size" Corrigendum: "Estimation for domains in double sampling for probabilities proportional to size" [Sankhya Ser. B **64** (2002), no. 1, 82–89; MR1969829] by G. A. Udofia.

Items with secondary classifications in 62D05

Adatia, A. (*with* Saleh, A. K. Md. Ehsanes) Estimation of quantiles of uniform distribution using generalized ranked-set sampling. (English summary)
Agho, Kingsley (*with* Dai, Wen; Robinson, John) Empirical saddlepoint approximations of the Studentized ratio and regression estimates for finite populations. (English summary)
Alexandridis, Roxana *see* **Ozturk, Omer et al.**, 2005c:62125
Alon, Noga (*with* Fernandez de la Vega, Wenceslao; Kannan, Ravi; Karpinski, Marek) Random sampling and approximation of MAX-CSPs. (English summary) **2005g:68192**
Amemiya, Yasuo *see* **Eickhoff, Jens C. et al.**, 2005a:62056
Baddeley, Adrian (*with* Jensen, Eva B. Vedel) ★ Stereology for statisticians. **2005g:62001**
Bad-Dumitrescu, Monica E. On some Markov models in survey sampling. (English summary) **2005j:62167**
Baker, Frank B. (*with* Kim, Seock-Ho) ★ Item response theory. **2005c:62002**
Balamurali, S. (*with* Subramani, Kandasamy) Modified CSP-C continuous sampling plan for consumer protection. (English summary)
Bass, Richard F. (*with* Gröchenig, Karlheinz) Random sampling of multivariate trigonometric polynomials. (English summary) **2005j:94011**
Bécue-Bertaut, Mónica (*with* Pagès, Jérôme; Pardo, Campo-Elías) Analysis of cross-language open-ended questions through MFACT. (English summary) (*see* **2005i:62003**)
(Beran, Rudolf) *see* **Fraser, Donald A. S.**
Berger, Yves G. Variance estimation for measures of change in probability sampling. (English and French summaries) **2005i:62106**
Borisov, I. S. (*with* Mironov, D. V.) Asymptotic representation of the likelihood ratio for multivariate samples with discontinuous densities. (Russian. Russian summary) **2005g:62041**
Buckland, Stephen T. *see* **Thomas, Len et al.**
Bucklew, James Antonio ★ Introduction to rare event simulation. **2005e:62001**
— (*with* Nitinawarat, Sirin; Wierer, Jay) Universal simulation distributions. (English summary) **2005e:94054**
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Chao, Anne (*with* Yang, Hsin-Chou; Yip, Paul S. F.) The use of capture-recapture methodology in epidemiological surveillance. (*see* **2005c:62003**)
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Chen, Gang[2] *see* **Chi, George Y. H. et al.**, (2005c:62003)
Chen, Jianwei (*with* Choy, S. T. Boris; Li, Kim Hung) Optimal Bayesian sampling acceptance plan with random censoring. (English summary) **2005a:62029**
Chen, Pinyuen (*with* Rollin, Linda M.) A two-stage selection and testing design for comparing several normal means with a standard. (English summary) **2005b:62047**
Chen, Yuguo (*with* Xie, Junyi; Liu, Jun S.) Stopping-time resampling for sequential Monte Carlo methods. (English summary)
Chi, George Y. H. (*with* Jin, Kun; Chen, Gang[2]; Cui, Lu) Some statistical issues of relevance to confirmatory trials. (*see* **2005c:62003**)
Choi, In Subsampling vector autoregressive tests of linear constraints. (English summary) **2005f:62135**
Chow, Shein-Chung (*with* Pong, Annpey) Statistics in biopharmaceutical research. (*see* **2005c:62003**)
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Dette, Holger On robust and efficient designs for risk estimation in epidemiological studies. (English summary) **2005c:62196**
Diana, Giancarlo (*with* Tommasi, Chiara) Optimal estimation for finite population mean in two-phase sampling. (English summary)
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Douke, Hideyuki *see* **Imada, Tsunehisa**
Dryver, Arthur L. (*with* Thompson, Steven K.) Improved unbiased estimators in adaptive cluster sampling. (English summary)
Eickhoff, Jens C. (*with* Zhu, Jun[5]; Amemiya, Yasuo) On the simulation size and the convergence of the Monte Carlo EM algorithm via likelihood-based distances. (English summary) **2005a:62056**
Ekström, Magnus (*with* Sjöstedt-de Luna, Sara) Subsampling methods to estimate the variance of sample means based on nonstationary spatial data with varying expected values. (English summary) **2005a:62165**
Ernst, Lawrence R. *see* **Wang, Suojin et al.**
Fang, Ji-Qian (*with* Hao, Yuantao) Quality of life: issues concerning assessment and analysis. (*see* **2005c:62003**)
Fernandez de la Vega, Wenceslao *see* **Alon, Noga et al.**, 2005g:68192
Fraser, Donald A. S. Ancillaries and conditional inference. (English summary)
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Gail, Mitchell (*with* Chatterjee, Nilanjan) Some biases that may affect kin-cohort studies for estimating the risks from identified disease genes. (English summary) (*see* **2005j:62008**)
Gangnon, Ronald E. (*with* Kosorok, Michael R.) Sample-size formula for clustered survival data using weighted log-rank statistics. (English summary) **2005b:62134**
Gao, Sujuan Special models for sampling survey. (*see* **2005c:62003**)
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García-Fiñana, Marta (*with* Cruz-Orive, Luis M.) Improved variance prediction for systematic sampling on $\mathbb{R}$. (English summary) **2005d:62119**
Gastwirth, Joseph L. *see* **Zheng, Gang[1]**
Gattone, Stefano Antonio (*with* Di Battista, Tonio) The multivariate adaptive sampling for

estimating the diversity in biological populations. (English summary) (*see* **2005f:62007**)
Gigliotti, Gary (*with* Sopher, Barry) Analysis of intertemporal choice: a new framework and experimental results. (English summary)
Gnedin, A. V. Regenerative composition structures: characterisation and asymptotics of block counts. (*see* **2005d:00014**)
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Griffiths, Robert C. (*with* Tavaré, Simon) The genealogy of a neutral mutation. (*see* **2005b:62009**)
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Jia, Cai-Yan (*with* Gao, Xie Ping) Multi-scaling sampling: an adaptive sampling method for discovering approximate association rules. (English summary)
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Kim, Jae Kwang Extension of factoring likelihood approach to non-monotone missing data. (English summary)
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Lombardía, M. J. (*with* González-Manteiga, Wenceslao; Prada-Sánchez, J. M.) Bootstrapping the Dorfman-Hall-Chambers-Dunstan estimator of a finite population distribution function. (English summary) **2005c:62074**
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Mecatti, F. (*with* Migliorati, S.) Comparison of mean estimators in center sampling. (Italian. English and Italian summaries)
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Sacerdote, Bruce Fixing broken experiments using the propensity score. (*see* **2005m:62005**)
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Sankoh, Abdul J. (*with* Huque, Mohammad F.) Impact of multiple endpoints on type I error rate and power of test statistic in non-superiority clinical trials. (English summary)
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Thomas, Neal Designs producing balanced missing data: examples from the National Assessment of Educational Progress. (*see* **2005m:62005**)
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Afify, El Desoky E. On the confidence interval of the Frechet distribution. (English summary)

Ahmad, Bilal (*with* Khan, Irshad Ahmad) A class of continuous probability distributions. (English summary)

Ahmad, Munir (*with* Roohi, Ayesha) Characterization of the Poisson probability distribution. (English summary) **2005m:62023**

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— (*with* Castillo, Enrique F.; Sarabia, José María) Distributions with beta conditionals. (*see* **2005j:62007**)

— (*with* Beaver, Robert J.) Alternative constructions of skewed multivariate distributions. (English summary)

— (*with* Castillo, Enrique F.; Sarabia, José María) Distributions with conditionals in truncated weighted families. (English summary)

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— (*with* Szynal, Dominik) Characterizations based on k-th upper and lower record values. (English summary) **2005d:62022**

Block, Henry W. (*with* Savits, Thomas H.) The shape of failure rate mixtures. (English summary) (*see* **2005a:62018**)

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— (*with* Huang, Wen-Jang) A note on characterizations of the bivariate gamma distribution. (English summary) **2005j:62029**

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Guirguis, Georges H. (*with* Tobias, R. D.) On the computation of the distribution for the analysis of means. (English summary)

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— *see also* **Nadarajah, Saralees, (2005j:62007); (2005j:62007)** *and* **(2005j:62007)**

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— (*with* Kirmani, Syed N. U. A.) Moments of residual life and some characterization results. (English summary) **2005h:62044**

— (*with* L'vin, S. Ya.) Monotonicity of failure rate and mean residual life function of a gamma-type model. (English summary)

— *see also* **Gupta, Rameshwar D. et al., 2005k:62035** *and* **Gupta, Pushpa L. et al.**

Gupta, Rameshwar D. (*with* Gupta, Ramesh C.; Sankaran, P. G.) Some characterization results based on factorization of the (reversed) hazard rate function. (English summary) **2005k:62035**

— *see also* **Gupta, Rajendra P. et al., 2005k:62034**

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Harman, Aziz Generalized exponential distribution. (English summary)

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Karcz-Dulęba, Iwona Time to the convergence of evolution in the space of population states. (English summary)
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— (*with* van Dorp, Johan René) Uneven two-sided power distributions with applications in econometric models. (English summary)
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Kumar V. R., Saji $\propto$-Poisson distribution. (English summary)
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Lai, C. D. (*with* Wood, Graham R.; Qiao, C. G.) The mean of the inverse of a punctured normal distribution and its application. (English summary) **2005c:62025**
Lajmi, S. *see* **Hassairi, Abdelhamid**, **2005g:62026**
Landsman, Zinoviy M. (*with* Valdez, Emiliano A.) Tail conditional expectations for elliptical distributions. (English summary) **2005c:62026**
Larsen, P. V. *see* **Jones, Michael C.**
Lathika, P. *see* **Muralidharan, Kunnumal**
Lee, June-Yule Adaptive choice of trimming proportions for location estimation of the mean. (English summary)
Li, Xiao Hu A new interpretation of NBUE property of life distribution with some applications. (English and Chinese summaries) **2005e:62018**
— Some properties of ageing notions based on the moment-generating-function order. **2005b:62034**
— (*with* Hao, Xue Kui) Some properties of the generalized total time on test transform order with applications. (Chinese. English and Chinese summaries)
López-Blázquez, Fernando *see* **Wesołowski, Jacek**, **2005k:62045**
L'vin, S. Ya. *see* **Gupta, Ramesh C.**
Maesono, Yoshihiko Asymptotic representations of skewness estimators of Studentized U-statistics. (English summary) **2005k:62038**
Mahmoud, M. R. (*with* Gouda, Ashraf A.) Characterizations of generalized gamma family distributions and mixture by conditional moments. (English summary) **2005f:62021**
Malinowska, Iwona (*with* Morris, K. W.; Szynal, Dominik) On dual characterizations of continuous distributions in terms of expected values of two functions of order statistics and record values. **2005k:62039**
Malov, S. V. *see* **Ahsanullah, Mohammad**, **2005h:62041**
Mandal, Saumendranath *see* **Torsney, B.**, (**2005f:62009**)
Manglick, Anubhav *see* **Kundu, Debasis**, **2005b:62033**
Massam, Hélène (*with* Wesołowski, Jacek) The Matsumoto-Yor property on trees. (English summary) **2005i:62038**
Mathai, Arak M. (*with* Provost, Serge B.) On the distribution of order statistics from generalized logistic samples. (English summary)
Matrán, Carlos *see* **Cuesta-Albertos, Juan A. et al.**, **2005k:62030**
Mazzuchi, Thomas A. *see* **van Dorp, Johan René**, (**2005j:62007**)
Mesiar, Radko *see* **Klement, Erich Peter et al.**
Mihoc, Ion (*with* Fătu-Mihoc, Cristina Ioana) On the bilateral truncated exponential distributions. (English summary) **2005a:62041**
Mironyuk, M. V. On the Bernstein functional equation. (Russian. English, Russian and Ukrainian summaries) **2005k:62040**
Mitov, Kosto V. (*with* Nadarajah, Saralees) Beta distributions in stochastic processes. (*see* **2005j:62007**)
Monfrini, Emmanuel Une méthode des moments stable pour les mélanges de deux distributions normales. (English summary) [A stable method of moments for mixtures of two normal distributions] **2005a:62042**
Morris, K. W. *see* **Malinowska, Iwona et al.**, **2005k:62039**
Mukhopadhyay, Nitis Dependence or independence of the sample mean and variance in non-i.i.d. or non-normal cases and the role of some tests of independence. (English summary) **2005g:62028**
Muralidharan, Kunnumal (*with* Lathika, P.) A note on Fisher information matrix of Weibull distribution.
Mycielski, Jan (*with* Szeptycki, Paweł) Minimizing moments. (English summary) **2005c:62027**
Nabar, S. P. (*with* Deshmukh, S. C.) Two-piece logistic distribution. (English summary)
Nadarajah, Saralees (*with* Gupta, Arjun K.) Beta function and the incomplete beta function. (*see* **2005j:62007**)
— (*with* Gupta, Arjun K.) Products and linear combinations. (*see* **2005j:62007**)
— (*with* Gupta, Arjun K.) Generalizations and related univariate distributions. (*see* **2005j:62007**)
— (*with* Gupta, Arjun K.) Characterizations of the beta distribution. (English summary)
— (*with* Kotz, Samuel) The beta Gumbel distribution.
— (*with* Kotz, Samuel) A truncated t distribution. (English summary) **2005m:62031**
— (*with* Aryal, Gokarna) On the skew uniform distribution. (English summary) **2005m:62032**
— (*with* Kotz, Samuel) Multitude of bivariate t distributions. (English summary)
— (*with* Dey, Dipak K.) Convolutions of the T distribution. (English summary)
— Exponentiated beta distributions. (English summary)
— (*with* Kotz, Samuel) On the linear combination and ratio of Laplace random variables. (English summary) **2005m:62033**
— On the product of Weibull and Fréchet random variables. (English summary)
— *see also* **Gupta, Arjun K.**, **2005a:62039**; **Mitov, Kosto V.**, (**2005j:62007**) *and* **Ali, M. Masoom et al.**
Navarro, Jorge (*with* Ruiz Gómez, José Maria) Characterizations from relationships between failure rate functions and conditional moments. (English summary)
— (*with* Ruiz Gómez, José Maria) Modeling systems with dependent components. (English summary) **2005k:62041**
Nevzorov, V. B. (*with* Ahsanullah, Mohammad) Characterizations of distributions by regressional properties of records. (English summary) **2005h:62046**
— *see also* **Berred, A.**, **2005h:62042** *and* **Akhundov, Ilham et al.**, **2005m:62025**
Nguyen, Diem M. *see* **Nguyen, Truc T. et al.**, **2005g:62029**
Nguyen, Truc T. (*with* Nguyen, Diem M.; Dinh, Khoan T.) A note on a characterization of k-variate normal distribution. (English summary) **2005g:62029**
— *see also* **Gupta, Arjun K. et al.**, **2005c:62024**
Ojo, Matthew Oladejo The distributions of some functions of gamma random variables. (English summary)
— (*with* Olapade, A. K.) On a six-parameter generalized logistic distribution. (English summary) **2005k:62042**
— *see also* **Adeyemi, Shola**, **2005h:62040**
Okada, Mitsumasa *see* **Iwase, Kōsei et al.**, **2005k:62036**
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Pakes, Anthony G. Characterization of probability laws via length-biasing and stationary-excess operations. (English summary)
Pandit, S. N. N. *see* **Haragopal, V. V. et al.**
Pap, Endre *see* **Klement, Erich Peter et al.**
Park, Sangun (*with* Zheng, Gang[1]) Equal Fisher information in order statistics. (English summary) **2005f:62022**
Paul, Sudhir R. Applications of the beta distribution. (*see* **2005j:62007**)
Pawlas, Piotr (*with* Szynal, Dominik) On characterizations of distributions in terms of lower generalized order statistics. (English summary) **2005f:62023**
Pierre-Loti-Viaud, Daniel Mélanges de lois sur $\mathbb{N}$ et crédibilité paramétrique. (French summary) [Distribution mixing in $\mathbb{N}$ and parametric credibility] **2005h:62047**
Pommeret, D. Approximate polynomial expansion for joint density. (English summary)
Prakasa Rao, B. L. S. On a bivariate lack of memory property under binary associative operation. (English summary) **2005m:62034**
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Qiao, C. G. *see* **Lai, C. D. et al.**, **2005c:62025**
Qin, Huaizhen (*with* Wan, Alan T. K.) On the properties of the t- and F-ratios in linear regressions with nonnormal errors. (English summary) **2005c:62028**
Quintana, Fernando A. *see* **Arellano-Valle, Reinaldo B. et al.**, **2005f:62017**
Rao, Calyampudi Radhakrishna (*with* Shanbhag, D. N.) Characterizations of stable laws based on a number theoretic result. (English summary)
Raqab, Mohammad Z. (*with* Abu-Lawi, Lina N.) Characterizations of continuous distributions based on expectations of generalized order statistics. (English summary) **2005k:62043**
— *see also* **Ahsanullah, Mohammad**, **2005g:62024**
Riečan, Beloslav Representation of probabilities on IFS events. **2005j:62031**
Rodríguez Avi, José (*with* Conde-Sánchez, Antonio; Sáez Castillo, Antonio José; Olmo-Jiménez, María José) On discrete multivariate distributions symmetric in frequencies. (English summary) **2005a:62043**
Rodríguez Rodríguez, Jesús M. *see* **Cuesta-Albertos, Juan A. et al.**, **2005k:62030**
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Roy, Dilip A generalization of the lack of memory property and related characterization results. (English summary) **2005m:62035**
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Sampath Kumar, K. *see* **Haragopal, V. V. et al.**
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— *see also* **Gupta, Rajendra P. et al.**, **2005k:62034** *and* **Gupta, Rameshwar D. et al.**, **2005k:62035**
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Shoukri, M. M. (*with* Chaudhary, Mohammad Ashraf; Al-Halees, A.) Estimating $P(Y < X)$ when X and Y are paired exponential variables. (English summary)

Shukla, Kamlesh Kumar *see* **Yadava, K. N. S. et al.**
Sobel, Milton (*with* Frankowski, Krzysztof S.) Extensions of Dirichlet integrals: their computation and probability applications. (*see* **2005j:62007**)
Stepanov, Aleksei Vasil'evich *see* **Balakrishnan, Narayanaswamy, 2005f:62018**
Stoyanov, Jordan (*with* Tolmatz, Leonid) New Stieltjes classes involving generalized gamma distributions. (English summary) **2005h:62048**
— (*with* Tolmatz, Leonid) Method for constructing Stieltjes classes for M-indeterminate probability distributions. (English summary) **2005m:62037**
Sun, Hai Yan (*with* Hu, Hong Chang) P-norm distribution and its sampling distributions. (Chinese. English and Chinese summaries) **2005k:62044**
Sunoj, Sreenarayanapurath Madhavan Characterizations of some continuous distributions using partial moments. (English summary) **2005m:62038**
Surles, J. G. (*with* Padgett, William J.) Some properties of a scaled Burr type X distribution. (English summary) **2005g:62030**
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Tang, Qi He *see* **Konstantinidis, D. G. et al., 2005e:62017**
Thabane, L. (*with* Haq, M. Safiul) On the matrix-variate generalized hyperbolic distribution and its Bayesian applications. (English summary)
Thomas, Alice (*with* Jose, K. K.) Marshall-Olkin bivariate Pareto distribution and its applications. (English summary) **2005e:62019**
— (*with* Jose, K. K.) Bivariate semi-Pareto minification processes. (English summary) **2005e:62020**
Tobias, R. D. *see* **Guirguis, Georges H.**
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Torsney, B. (*with* Mandal, Saumendranath) Multiplicative algorithms for constructing optimizing distributions: further developments. (English summary) (*see* **2005f:62009**)
Tripathi, S. *see* **Yadava, K. N. S. et al.**
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Van der Duyn Schouten, Frank A. *see* **Bar-Lev, Shaul K. et al., 2005i:62034**
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Wang, Jiuzhou (*with* Boyer, Joseph; Genton, Marc G.) A note on an equivalence between chi-square and generalized skew-normal distributions. (English summary) **2005b:62035**
Wang, She Jun A note on some classes of NBU life distributions. (Chinese. English and Chinese summaries)
Wang, Yuchung J. *see* **Ip, Edward H. et al., 2005b:62031**
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— *see also* **Bobecka, Konstancja, 2005i:62035** *and* **Massam, Hélène, 2005i:62038**
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Xekalaki, Evdokia (*with* Dimaki, Caterina) Characterizations of bivariate Pareto and Yule distributions. (English summary)
Yadava, K. N. S. (*with* Tripathi, S.; Shukla, Kamlesh Kumar) Size-biased geometric distribution and its application to migration data. (English summary)
Yang, Zhen Hai *see* **Zhang, Jie[6] et al., 2005g:62031**
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Zhang, Jie[6] (*with* Yang, Zhen Hai; Zhao, Ying[2]) Domain transformation method and its application to continuous-distribution random number generation. (Chinese. English and Chinese summaries) **2005g:62031**
Zhao, Ying[2] *see* **Zhang, Jie[6] et al., 2005g:62031**
Zheng, Gang[1] *see* **Park, Sangun, 2005f:62022**
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Items with secondary classifications in 62E10

Aalen, Odd O. *see* **Moger, Tron Anders**
Abdelkader, Yousry H. Computing the moments of order statistics from nonidentically distributed Erlang variables. (English summary) **2005g:62082**
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Ahsanullah, Mohammad Some characteristic properties of the generalized order statistics from exponential distribution. (English summary) **2005e:62075**
— *see also* **Wesołowski, Jacek, 2005f:62083**
Akkaya, Ayşen D. (*with* Tiku, Moti L.) Time series AR(1) model for short-tailed distributions. (English summary)
Albanese, Angela A. (*with* Sempi, Carlo) Countably generated idempotent copulas. **2005k:60042**
Alfieri, Alessandra (*with* El Barmi, Hammou) Nonparametric estimation of a distribution with type I bias with applications to competing risks. (English summary) **2005j:62071**
AL-Hussaini, Essam K. (*with* Ahmad, Abd El-Baset A.; El-Boghdady, Hanan H.) Recurrence relations for moment generating functions of order statistics. (English summary) **2005h:62138**
Al-Matrafi, Bakheet N. *see* **Jaheen, Zeinhum F., 2005a:62126**
Alsina, Claudi On quasi-copulas and metrics. **2005b:60028**
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Anghel, Corneliu (*with* Boldea, M.) A new distribution law in statistics. (English summary) **2005c:62095**
Arellano-Valle, Reinaldo B. (*with* Gómez, Héctor W.; Quintana, Fernando A.) A new class of skew-normal distributions. (English summary) **2005i:60023**
Arslan, Olcay Family of multivariate generalized t distributions. (English summary) **2005b:60029**
Aslan, B. (*with* Zech, G.) New test for the multivariate two-sample problem based on the concept of minimum energy. (English summary)
Ath, Yontha (*with* Sobel, Milton) New binomial and multinomial distributions from graph theory. (*see* **2005j:62007**)
Baek, Jong Il *see* **Lee, Kyung Jae et al., 2005c:60022**
Bandourian, Ripsy (*with* McDonald, James B.; Turley, Robert S.) A comparison of parametric models of income distribution across countries and over time. (English summary)
Banerjee, Arvind *see* **Banerjee, Mihir B. et al., 2005k:60043**
Banerjee, Mihir B. (*with* Banerjee, Arvind; Mishra, Krishna Kant) On a problem of moments. (English summary) **2005k:60043**
Bashkirov, A. G. On maximum entropy principle, superstatistics, power-law distribution and Renyi parameter. (English summary) **2005e:82001**
Bassan, Bruno (*with* Spizzichino, Fabio) On some properties of dependence and aging for residual lifetimes in the exchangeable case. (English summary) **2005b:62201**
Bhattacharjee, Manish C. Adaptive economic choices under recurrent disasters: a Bayesian perspective. (*see* **2005j:62007**)
Bi, Xiu Chun (*with* Yin, Chuan Cun) A local result on probability in renewal risk model. (Chinese. English and Chinese summaries) **2005m:62191**
Bilodeau, Martin Discussion on: "Tail conditional expectations for elliptical distributions" [N. Am. Actuar. J. 7 (2003), no. 4, 55–71; MR2061237 (2005c:62026)] by Z. M. Landsman and E. A. Valdez.
Block, Henry W. (*with* Mazumdar, Mainak; Ross, Sheldon M.) A note on generating systems composed of binary and ternary random variables. (English summary) **2005j:62116**
Bobecka, Konstancja (*with* Wesołowski, Jacek) Multivariate dual regression schemes for the Lukacs theorem. (English summary) **2005h:62145**
— (*with* Wesołowski, Jacek) Bivariate Lukacs type regression characterizations. (English summary) **2005h:62146**
Böckenholt, Ulf (*with* Kamakura, Wagner A.; Wedel, Michel) The structure of self-reported emotional experiences: a mixed-effects Poisson factor model. (English summary)
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Boldea, M. *see* **Anghel, Corneliu, 2005c:62095**
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Bon, Jean-Louis (*with* Philippe, Anne) Numerical comparisons of approximations of geometric sums. (English summary) **2005b:62202**
Bose, Sudip On the robustness of the predictive distribution for sampling from finite populations. (English summary) **2005m:62020**
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Brain, Phil *see* **O'Neill, Michael E. et al.**
Brown, Lawrence David (*with* Dasgupta, Anirban[1]; Marden, John; Politis, Dimitris N.) Characterizations, sub and resampling, and goodness of fit. (English summary) (*see* **2005i:62005**)
Bühlmann, Hans (*with* Platen, Eckhard) A discrete time benchmark approach for insurance and finance. (English summary) **2005a:62222**
Burnecki, Krzysztof (*with* Marciniuk, A.; Weron, Aleksander) On annuities under random rates of interest with payments varying in arithmetic and geometric progression. (English summary) **2005k:91144**
— (*with* Miśta, Paweł; Weron, Aleksander) What is the best approximation of ruin probability in infinite time? (English summary)
Butler, Ruth C. *see* **O'Neill, Michael E. et al.**
Campana, Antonella Dependency of insurance risks and the Burr distribution. (English summary)
Campos, F. Alberto (*with* Villar, José) Medium-term electricity generation with fuzzy availability. (*see* **2005i:62007**)
Campos, L. M. B. C. (*with* Marques, J. M. G.) On a combination of gamma and generalized error distributions with application to aircraft flight path deviations. (English summary)
Cascos-Fernández, Ignacio (*with* López-Díaz, Miguel) The zonoid hull of a multivariate probability distribution and its trimmed regions. **2005j:62117**
Cazals, Catherine (*with* Fève, Frédérique; Fève, Patrick; Florens, Jean-Pierre) Simple structural econometrics of price elasticity. (English summary)
Chamayou, Jean-Marie-François Products of double gamma, gamma and beta distributions. (English summary) **2005f:60044**
Chaubey, Yogendra P. (*with* Nebebe, Fassil; Goyal, Suresh) On continuous review stock control with multiple suppliers and non-negative lead times with special emphasis on Erlang distribution. (English summary) **2005b:90010**
Chen, Chung-Ho Determining the optimum process mean under a gamma distribution. (English summary)
Chen, Qian (*with* Zou, Jie Zhong) A risk model with the occurrence of claims described by a Markov jump process. (Chinese. English and Chinese summaries)
Chen, Wei Yin (*with* Bokka, Sankar) Stochastic modeling of nonlinear epidemiology. (English summary)
Cheng, Shi Xue *see* **Li, Ming Ming**
Choi, Se Ah (*with* Yang, Kyeongcheol) Balanced shrinking generators. (English summary) **2005d:94094**
Chung, Younshik (*with* Kim, Chansoo) Measuring robustness for weighted distributions: Bayesian perspective. (English summary) **2005a:62082**
Ciok, Alicja Asymmetry and the inverse concentration set. (*see* **2005e:62008**)
— Discretization and regularity. (*see* **2005e:62008**)
Clifford, David Computation of spatial covariance matrices. (English summary)

Coelho, Carlos A. The generalized near-integer gamma distribution: a basis for 'near-exact' approximations to the distribution of statistics which are the product of an odd number of independent Beta random variables. (English summary) **2005d:62024**
Cogun, Can An attempt to model distributions of part dimensions by using beta distribution in quality control. (*see* **2005j:62007**)
Cossette, Hélène (*with* Duchesne, Thierry; Marceau, Étienne) Modeling catastrophes and their impact on insurance portfolios. (English summary) **2005a:62223**
— (*with* Landriault, David; Marceau, Étienne) Exact expressions and upper bound for ruin probabilities in the compound Markov binomial model. (English summary) **2005c:62191**
Cramer, Erhard (*with* Kamps, Udo; Raqab, Mohammad Z.) Characterizations of exponential distributions by spacings of generalized order statistics. (English summary) **2005c:62086**
— (*with* Kamps, Udo; Rychlik, Tomasz) Unimodality of uniform generalized order statistics, with applications to mean bounds. (English summary) **2005c:62087**
— Logconcavity and unimodality of progressively censored order statistics. (English summary) **2005c:62088**
Csiszár, Imre (*with* Matúš, František) On information closures of exponential families: a counterexample. (English summary)
Cuadras, Carles M. (*with* Lahlou, Younes) Principal components of the Pareto distribution. (English summary) (*see* **2005a:62016**)
Dahan, Merav (*with* Frostig, Esther; Langberg, Naftali A.) Insurance contracts portfolios with heterogenous insured ages. (English summary) **2005e:91100**
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Dai, Jin *see* **Wang, Yan Chen et al., 2005j:91049**
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Danielak, Katarzyna (*with* Raqab, Mohammad Z.) Sharp bounds on expectations of kth record spacings from restricted families. (English summary) **2005h:62139**
Dasgupta, Anirban[1] The matching, birthday and the strong birthday problem: a contemporary review. (English summary)
— *see also* **Brown, Lawrence David et al., (2005i:62005)**
Dekker, Rommert *see* **Krever, Maarten et al., 2005g:90007**
Deng, Ping Ji (*with* Wang, Feng Yu) Transportation-cost inequalities on path space. (Chinese. English and Chinese summaries) **2005b:60040**
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Díaz-García, José A. (*with* Leiva-Sánchez, Víctor) A new family of life distributions based on the elliptically contoured distributions. (English summary) **2005h:62275**
Dickson, David C. M. *see* **Willmot, Gordon E. et al., 2005i:60175**
Diday, Edwin (*with* Vrac, M.) Mixture decomposition of distributions by copulas in the symbolic data analysis framework. (English summary) **2005h:62010**
Ding, Ying[2] (*with* Zhang, Xin Sheng) Some stochastic orders of Kotz-type distributions. (English summary) **2005h:60052**
Doganoglu, Toker (*with* Mittnik, Stefan; Rachev, Svetlozar T.) Portfolio selection in the presence of heavy-tailed asset returns. (English summary) **2005b:91111**
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Duclos, Jean-Yves (*with* Esteban, Joan; Ray, Debraj) Polarization: concepts, measurement, estimation. (English summary) **2005d:62170**
Durante, Fabrizio (*with* Sempi, Carlo) Compositions of copulas and quasi-copulas. (*see* **2005i:62007**)
— Solution of an open problem for associative copulas. (English summary) **2005m:03107**
Dye, Chung-Yuan A note on: "An EOQ model for items with Weibull distributed deterioration, shortages and power demand pattern" [Internat. J. Inform. Management Sci. **13** (2002), no. 2, 19–34; MR1902084 (2003d:90024)] by W.-C. Lee and J.-W. Wu. (English summary) **2005b:90032**
El Barmi, Hammou *see* **Alfieri, Alessandra, 2005j:62071**
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Elkins, Debra A. *see* **Wortman, M. A., 2005k:90023**
Esteban, Joan *see* **Duclos, Jean-Yves et al., 2005d:62170**
Evans, Steven N. Fourier analysis and phylogenetic trees. (English summary) (*see* **2005b:94011**)
Fearnhead, Paul (*with* Meligkotsidou, Loukia) Exact filtering for partially observed continuous time models. (English summary) **2005d:62152**
Feiveson, Alan H. Limited-range distributions with informative dropout. (*see* **2005j:62007**)
Ferguson, Thomas S. (*with* Genest, Christian) Toetjes na. (English summary) (*see* **2005m:62007**)
Fève, Frédérique *see* **Cazals, Catherine et al.**
Fève, Patrick *see* **Cazals, Catherine et al.**
Fieuws, Steffen (*with* Spiessens, Bart; Draney, Karen) Mixture models. (*see* **2005f:62006**)
Flinn, Christopher J. *see* **Dey, Matthew S., 2005h:91145**
Florens, Jean-Pierre *see* **Cazals, Catherine et al.**
Frankel, Gerald S. *see* **Ruan, Shiling et al.**
Fredricks, Gregory A. (*with* Nelsen, Roger B.) The Bertino family of copulas. (English summary) **2005f:60035**
From, Steven G. Approximating the distribution of a renewal process using generalized Poisson distributions. (English summary)
Frostig, Esther *see* **Dahan, Merav et al., 2005e:91100**
Fyodorov, Yan V. *see* **Soshnikov, Alexander, 2005k:82034**
Gaier, J. (*with* Grandits, Peter) Ruin probabilities and investment under interest force in the presence of regularly varying tails. (English summary) **2005k:91182**
Galambos, Janos (*with* Simonelli, Italo) Characterizations of probability distributions by properties of products of random variables. (English summary) **2005h:60041**
Gani, Joseph M. Nonhomogeneous susceptibles and infectives among needle sharing IVDUs. (English summary) (*see* **2005a:62014**)
— Two types of infectives among homogeneous IVDU susceptibles. (English summary) (*see* **2005m:62007**)
Gao, Hong Zhong A new class of claim frequency distributions. (Chinese. English and Chinese summaries) **2005m:62192**
Garren, Steven T. Goodness-of-fit testing of the beta-binomial model. (*see* **2005j:62007**)
Garrido, José (*with* Lu, Yi) On double periodic non-homogeneous Poisson processes. (English, French and German summaries) **2005i:62149**
Gay, Roger[2] Pricing risk when distributions are fat tailed. (English summary) **2005a:91069**
van der Geest, P. A. G. The binomial distribution with dependent Bernoulli trials. (English summary)
Genest, Christian *see* **Ferguson, Thomas S., (2005m:62007)**
Genton, Marc G. *see* **Ma, Yanyuan, 2005c:62098** *and* **Wang, Jiuzhou et al., 2005k:62140**
George, Preethi Sara *see* **Sebastian, G., 2005k:60052**
Gerber, Hans U. Comment: "A note on the Myers and Read capital allocation formula" [N. Am. Actuar. J. **8** (2004), no. 2, 32–44; MR2064432 (2005a:62229)] by S. J. Mildenhall.
Ghitany, M. E. The monotonicity of the reliability measures of the beta distribution. (English summary) **2005h:62278**
Glasserman, Paul (*with* Yao, David D.) Optimal couplings are totally positive and more. (English summary) **2005a:62128**
Gómez, Héctor W. *see* **Arellano-Valle, Reinaldo B. et al., 2005i:60023**
Goovaerts, Marc J. (*with* Kaas, Rob; Dhaene, Jan; Tang, Qi He) Some new classes of consistent risk measures. (English summary) **2005b:91142**
— (*with* Kaas, Rob; Laeven, Roger J. A.; Tang, Qi He) A comonotonic image of independence for additive risk measures. (English summary) **2005h:91131**
— *see also* **Hoedemakers, Tom**
Gopal, Govindasamy *see* **Kumar, R. Suresh et al.**
Götze, Friedrich (*with* Tikhomirov, A. N.) Rate of convergence in probability to the Marchenko-Pastur law. (English summary) **2005b:62116**
Goyal, Suresh *see* **Chaubey, Yogendra P. et al., 2005b:90010**
Grandits, Peter *see* **Gaier, J., 2005k:91182**
Grünwald, Peter D. (*with* Halpern, Joseph Y.) Updating probabilities. (English summary) **2005h:68153**
Gu, Wei (*with* Wan, Jian Ping; Wang, Li Li) The theory of VaR and its applications in weekend effects on stock returns. (Chinese. English and Chinese summaries) **2005h:62285**
(Gundlach, Matthias) *see* **CreditRisk$^+$ in the banking industry, 2005c:91007**
Guo, Jinli *see* **Shi, Ding Hua et al., 2005k:60049**
Gupta, Arjun K. (*with* Nadarajah, Saralees) Mathematical properties of the beta distribution. (*see* **2005j:62007**)
— (*with* Nadarajah, Saralees) Order statistics and records. (*see* **2005j:62007**)
— *see also* **Handbook: Beta distribution and its applications, 2005j:62007** *and* **Nadarajah, Saralees**
Gupta, Ramesh C. Preface [Special issue on characterization of probability distributions].
— Reliability functions of bivariate distributions with second kind of beta conditionals. (English summary)
Halpern, Joseph Y. *see* **Grünwald, Peter D., 2005h:68153**
Hamdan, Hasan (*with* Nolan, John P.) Approximating scale mixtures. **2005d:60023**
Han, Qui Hong *see* **Jia, Xin Gang, 2005m:92023**
Haq, M. Safiul *see* **Khan, Hafiz M. R. et al.**
Hardy, Mary R. (*with* Wirch, Julia L.) The iterated CTE: a dynamic risk measure. (English summary)
Hareter, Dietmar *see* **Trutschnig, Wolfgang, 2005k:60050**
Harner, E. James *see* **Misra, Neeraj et al., 2005a:60028**
He, Ping[4] *see* **Peng, Jiang Yan**
He, Shu Hong (*with* Xia, Zi Xiang) Ruin probability of a risk model of time surplus with stochastic interest. (Chinese. English and Chinese summaries)
Hernandez, Pedro J. *see* **Navarro, Jorge, 2005k:62235**
Hoedemakers, Tom (*with* Goovaerts, Marc J.) Comment on: "Risk and discounted loss reserves" [N. Am. Actuar. J. **8** (2004), no. 1, 37–44; MR2039871 (2005a:62233)] by G. Taylor.
Hörmann, Wolfgang *see* **Tirler, Günter et al.**
Horváth, Alice (*with* Prékopa, András) Lower and upper bounds for the actuarial present value of a group life insurance policy, using joint life time distributions. (Hungarian. English and Hungarian summaries) **2005e:91101**
Hou, Shui Hung *see* **Troutt, Marvin D. et al., 2005b:62005**
Hu, Taizhong (*with* Yang, Jianping) Further developments on sufficient conditions for negative dependence of random variables. (English summary) **2005a:60027**
Hu, Yi-jun *see* **Wei, Xiao, 2005j:91051**
Hu, Yue Qing (*with* Ma, Qing Hua[2]) Paternity determination with incomplete mother's genotype. (Chinese. English and Chinese summaries)
Hu, Zhi Shui *see* **Su, Chun et al., 2005e:60038**
Huang, Wei-Kwang (*with* Pang, Wan-Kai) The noncentral chi-square distribution revisited. (English summary) **2005h:60043**
Hürlimann, Werner The algebra of cash flows: theory and application. **2005a:62224**
Ignatov, Tsvetan G. (*with* Kaishev, Vladimir K.; Krachunov, Rossen S.) Optimal retention levels, given the joint survival of cedent and reinsurer. (English summary) **2005f:62161**
Īksanov, Oleksandr M. (*with* Kim, Che Soong) On a Pitman-Yor problem. (English summary) **2005f:60037**
Irgens, Christian (*with* Paulsen, Jostein) Maximizing terminal utility by controlling risk exposure: a discrete-time dynamic control approach. (English summary) **2005k:90020**
Irle, A. A measure-theoretic approach to completeness of financial markets. (English summary) **2005d:62166**
Jacobs, Brent C. *see* **O'Neill, Michael E. et al.**
Jaheen, Zeinhum F. (*with* Al-Matrafi, Bakheet N.) Recurrence relations for moments of k-th record values from a class of continuous distributions. (English summary) **2005a:62126**
Jang, Ji-Wook (*with* Krvavich, Yu. V.) Arbitrage-free premium calculation for extreme losses using the shot noise process and the Esscher transform. (English summary) **2005f:91086**
Javed, Iftikhar Ahmed *see* **Upadhyay, Satyanshu Kumar et al.**
Jayet, Hubert *see* **Rajaonarison, Dominique et al.**

Jensen, D. R. (*with* Srinivasan, S. S.) Matrix equivalence classes with applications. (English summary) **2005f:15024**
Jia, Xin Gang (*with* Han, Qui Hong) Joint genotypic probabilities in a structured population. (Chinese. English and Chinese summaries) **2005m:92023**
Jin, Chen Hui *see* **Li, Bao Hong**, **2005k:62138**
John, A. M. *see* **Watkins, A. J.**
Jones, Michael C. The moments of the beta-normal distribution with integer parameters are the moments of order statistics from the normal distribution. (English summary)
— *see also* **Pewsey, Arthur**
de Jongh, P. J. (*with* de Wet, T.; van Deventer, P. J. U.) Saddlepoint approximations for the distribution of regression quantiles. (English summary)
Kaas, Rob *see* **Goovaerts, Marc J. et al.**, **2005b:91142** *and* **2005h:91131**
Kaishev, Vladimir K. *see* **Ignatov, Tsvetan G. et al.**, **2005f:62161**
Kalla, Shyam L. *see* **Nakhi, Yasmin**, **2005m:33009**
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Kamakura, Wagner A. *see* **Böckenholt, Ulf et al.**
Kamatani, Naoyuki *see* **Matsui, Tomomi et al.**, **2005e:92002**
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Kang, Dian Tong Some properties on DMRL ordering. (English and Chinese summaries) **2005h:62279**
— On closure properties of NBU(2) class of life distributions. (English summary)
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Kelderman, Henk Measurement exchangeability and normal one-factor models. (English summary) **2005h:62148**
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Khan, Hafiz M. R. (*with* Haq, M. Safiul; Provost, Serge B.) Predictive distributions for responses from the Weibull life testing model. (English summary)
Kibzun, A. I. (*with* Kuznetsov, E. A.) Comparison of the value-at-risk and conditional value-at-risk criteria. (Russian. Russian summary) **2005k:91159**
Kim, Chansoo *see* **Chung, Younshik**, **2005a:62082**
Kim, Che Soong *see* **Īksanov, Oleksandr M.**, **2005f:60037**
Kleiber, Christian (*with* Krämer, Walter) Efficiency, equity, and generalized Lorenz dominance. (English summary) **2005f:91045**
Klement, Erich Peter (*with* Mesiar, Radko; Pap, Endre) Transformation of copulas and quasi-copulas. (*see* **2005i:62007**)
— (*with* Kolesárová, Anna) 1-Lipschitz aggregation operators, quasi-copulas and copulas with given diagonals. (*see* **2005i:62007**)
Kolesárová, Anna *see* **Klement, Erich Peter**, **(2005i:62007)**
Kolpakov, R. M. Closed classes of finite distributions of rational probabilities. (Russian. Russian summary) **2005m:60024**
Kondratiuk-Janyska, Alina *see* **Kałuszka, Marek**, **2005g:62180**
Korolev, V. Yu. On distributions whose symmetrization is a scale mixture of normal laws. **2005d:60024**
— (*with* Kudryavtsev, A. A.) The asymptotic behavior of the reserve of an insurance company described by the generalized risk process. **2005g:62182**
Kotz, Samuel (*with* van Dorp, Johan René) ★ Beyond beta. **2005j:62005**
— *see also* **Nadarajah, Saralees**
Kowalczyk, Teresa (*with* Niewiadomska-Bugaj, M.) A new grade measure of monotone multivariate separability. (English summary) (*see* **2005a:62016**)
— (*with* Szczesny, Wiesław) Univariate Lilliputian model. I. (*see* **2005e:62008**)
— (*with* Szczesny, Wiesław) Preliminary concepts of bivariate dependence. (*see* **2005e:62008**)
Krachunov, Rossen S. *see* **Ignatov, Tsvetan G. et al.**, **2005f:62161**
Krämer, Walter *see* **Kleiber, Christian**, **2005f:91045**
Kremer, Erhard Estimating the loading of the largest claims covers. (English summary) **2005b:62214**
Krever, Maarten (*with* Wunderink, Sophia; Dekker, Rommert; Schorr, Benno) Inventory control based on advanced probability theory, an application. (English summary) **2005g:90007**
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Lahlou, Younes *see* **Cuadras, Carles M.**, **(2005a:62016)**
Landriault, David *see* **Cossette, Hélène et al.**, **2005c:62191**
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— *see also* **Bilodeau, Martin**
Langberg, Naftali A. *see* **Dahan, Merav et al.**, **2005e:91100**
Lee, Kyung Jae (*with* Ryu, Dae-Hee; Baek, Jong Il) On the probability inequalities under dependent conditions. (English summary) **2005c:60022**
Lee, Wen-Chuan Inventory model involving controllable backorder rate and variable lead time demand with the mixtures of distribution. (English summary)
— *see also* **Dye, Chung-Yuan**, **2005b:90032**
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Leiva-Sánchez, Víctor *see* **Díaz-García, José A.**, **2005h:62275**
Letac, Gérard (*with* Massam, Hélène) All invariant moments of the Wishart distribution. (English summary) **2005f:62092**
Leydold, Josef *see* **Tirler, Günter et al.**
Li, Bao Hong (*with* Jin, Chen Hui) Decomposition of the joint distribution of n-valued random variables. (Chinese. English and Chinese summaries) **2005k:62138**
Li, Ming Ming (*with* Cheng, Shi Xue) The application of discrete stochastic order to compound binomial ruin model. (Chinese. English and Chinese summaries)
Li, Xin³ (*with* Mikusiński, Piotr; Taylor, M. D.) Some integration-by-parts formulas involving 2-copulas. (English summary) **2005b:60031**
Li, Yongzhen *see* **Wang, Xuesong et al.**
Li, Yulin Closure of NBU(2) class under the formation of parallel systems. (English summary) **2005a:62218**
Li, Zhi Ying A kind of investment decision without consideration of transaction fees. (Chinese. English and Chinese summaries) **2005a:62226**
— *see also* **Zhang, Yi³**, **2005a:91074**
Lijoi, Antonio (*with* Regazzini, Eugenio) Means of a Dirichlet process and multiple hypergeometric functions. (English summary) **2005c:60098**
Lillo, Rosa E. (*with* Semeraro, Patrizia) Stochastic bounds for discrete-time claim processes with correlated risks. (English summary) **2005b:62215**
Liu, Kun Hui *see* **Liu, Xiao Peng**, **2005f:60039**
Liu, Liming *see* **Shi, Ding Hua et al.**, **2005k:60049**
Liu, Xiao Peng (*with* Liu, Kun Hui) The density curve of F distribution. (English summary) **2005f:60039**
Liu, Xin⁷ (*with* Shao, Yongzhao) Asymptotics for the likelihood ratio test in a two-component normal mixture model. (English summary) **2005c:62036**
Liu, Zai Ming *see* **Xiang, Yang Liu**
Loisel, Stéphane *see* **Rullière, Didier**, **2005e:62146**
Lokk, Katrin (*with* Pärna, Kalev) On risk processes with double barriers. (English summary) **2005k:62239**
López-Díaz, Miguel *see* **Cascos-Fernández, Ignacio**, **2005j:62117**
Lu, Jin-yu (*with* Wang, Han Xing; Zhao, Fei) Ruin distributions and their equations. (English summary)
Lu, Yi *see* **Garrido, José**, **2005i:62149**
Luo, Yan (*with* Zou, Jie Zhong) A discrete insurance risk model with two-type claims. (Chinese. English and Chinese summaries)
Ma, Chong *see* **Yang, Shan Chao et al.**, **2005k:91189**
Ma, Qing Hua² *see* **Hu, Yue Qing**
Ma, Yanyuan (*with* Genton, Marc G.) Flexible class of skew-symmetric distributions. (English summary) **2005c:62098**
Mačutek, Ján On two types of partial summations. (English summary) **2005a:60023**
Mádi-Nagy, Gergely (*with* Prékopa, András) On multivariate discrete moment problems and their applications to bounding expectations and probabilities. (English summary) **2005a:90101**
Magnac, Thierry Panel binary variables and sufficiency: generalizing conditional logit. (English summary) **2005j:62078**
Mahmoud, Mohamed Abdel Wahab (*with* Sultan, Khalaf Salman; Amer, Safaa Mousa) Order statistics from inverse Weibull distribution and characterizations. (English summary) **2005c:62090**
Marceau, Étienne *see* **Cossette, Hélène et al.**, **2005a:62223** *and* **2005c:62191**
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Marden, John *see* **Brown, Lawrence David et al.**, **(2005i:62005)**
Marques, J. M. G. *see* **Campos, L. M. B. C.**
Masjed Jamei, Mohammad Classical orthogonal polynomials with weight function $((ax+b)^2+(cx+d)^2)^{-p}\exp(q\,\mathrm{Arctg}((ax+b)/(cx+d)))$, $x\in(-\infty,\infty)$ and a generalization of T and F distributions. (English summary) **2005b:33011**
Massam, Hélène *see* **Letac, Gérard**, **2005f:62092**
Matsui, Tomomi (*with* Motoki, Mitsuo; Kamatani, Naoyuki) Polynomial time approximate sampler for discretized Dirichlet distribution. (English summary) **2005e:92002**
Matúš, František *see* **Csiszár, Imre**
Mazumdar, Mainak *see* **Block, Henry W. et al.**, **2005j:62116**
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Meligkotsidou, Loukia *see* **Fearnhead, Paul**, **2005d:62152**
Merhav, Neri (*with* Weinberger, Marcelo J.) On universal simulation of information sources using training data. (English summary) **2005b:62018**
— Achievable key rates for universal simulation of random data with respect to a set of statistical tests. (English summary) **2005b:62017**
Mesiar, Radko *see* **Klement, Erich Peter et al.**, **(2005i:62007)**
Mi, Jie A general approach to the shape of failure rate and MRL functions. (English summary) **2005b:62209**
Mikusiński, Piotr *see* **Li, Xin³ et al.**, **2005b:60031**
Mildenhall, Stephen J. A note on the Myers and Read capital allocation formula. (English summary) **2005a:62229**
— *see also* **Gerber, Hans U.**
Mishra, Krishna Kant *see* **Banerjee, Mihir B. et al.**, **2005k:60043**
Misra, Neeraj (*with* Singh, Harshinder; Harner, E. James) Stochastic comparisons of Poisson and binomial random variables with their mixtures. (English summary) **2005a:60028**
— *see also* **Nanda, Asok K. et al.**, **2005a:62219**
Miśta, Paweł *see* **Burnecki, Krzysztof et al.**
Mitakda, Bernadetha *see* **O'Neill, Michael E. et al.**
Mittnik, Stefan *see* **Doganoglu, Toker et al.**, **2005b:91111**
Moger, Tron Anders (*with* Aalen, Odd O.) A distribution for multivariate frailty based on the compound Poisson distribution with random scale. (English summary)
Møller, Thomas Hedging equity-linked life insurance contracts. (English summary)
Moore, Dirk F. (*with* Smith, Woollcott) Applications of the beta-binomial distribution to animal teratology experiments. (*see* **2005j:62007**)
Morales, Manuel (*with* Schoutens, Wim) A risk model driven by Lévy processes. (English summary) **2005f:60109**
— On a surplus process under a periodic environment: a simulation approach. (English summary)
Motoki, Mitsuo *see* **Matsui, Tomomi et al.**, **2005e:92002**
Motro, Uzi *see* **Yaniv, Osnat**
Muralidharan Nair, K. R. *see* **Abdul Sathar, E. I. et al.**, **2005g:62187**

Na, Sangsin On the support of fixed-rate minimum mean-squared error scalar quantizers for a Laplacian source. (English summary)
Nadarajah, Saralees Reliability for some bivariate beta distributions.
— (*with* Gupta, Arjun K.) Products of random variables with Cauchy kernel. (English summary)
— (*with* Kotz, Samuel) Sampling distributions associated with the multivariate t distribution. (English summary)
— (*with* Dey, Dipak K.) Multitude of multivariate t-distributions. (English summary)
— *see also* **Handbook: Beta distribution and its applications, 2005j:62007; Gupta, Arjun K., 2005j:62007; (2005j:62007)** *and* **(2005j:62007)**
Nagahara, Yuichi A method of simulating multivariate nonnormal distributions by the Pearson distribution system and estimation. (English summary)
Nakano, Yumiharu Efficient hedging with coherent risk measure. (English summary) **2005a:62230**
Nakhi, Yasmin (*with* Kalla, Shyam L.) Some results on a generalized ω-Jacobi transform. (English summary) **2005m:33009**
Nanda, Asok K. (*with* Singh, Harshinder; Misra, Neeraj; Paul, Prasanta) Letter to the editor: "Reliability properties of reversed residual lifetime" [Comm. Statist. Theory Methods **32** (2003), no. 10, 2031–2042; MR2002004 (2004h:62183)]. **2005a:62219**
Navarro, Jorge (*with* Ruiz Gómez, José María) A characterization of the multivariate normal distribution by using the hazard gradient. (English summary) **2005d:62093**
— (*with* Hernandez, Pedro J.) How to obtain bathtub-shaped failure rate models from normal mixtures. (English summary) **2005k:62235**
Nebebe, Fassil *see* **Chaubey, Yogendra P. et al., 2005b:90010**
Nelsen, Roger B. (*with* Quesada Molina, José Juan; Rodríguez Lallena, José Antonio; Úbeda Flores, Manuel) Multivariate Archimedean quasi-copulas. (English summary) (*see* **2005a:62016**)
— (*with* Úbeda Flores, Manuel) A comparison of bounds on sets of joint distribution functions derived from various measures of association. (English summary) **2005f:60048**
— (*with* Quesada Molina, José Juan; Rodríguez Lallena, José Antonio; Úbeda Flores, Manuel) Best-possible bounds on sets of bivariate distribution functions. (English summary) **2005k:60065**
— *see also* **Fredricks, Gregory A., 2005f:60035**
Nguyen, Truc T. Maximum likelihood estimators of the parameters in a beta distribution. (*see* **2005j:62007**)
Niewiadomska-Bugaj, M. *see* **Kowalczyk, Teresa, (2005a:62016)**
Nolan, John P. *see* **Hamdan, Hasan, 2005d:60023**
Ojo, Matthew Oladejo (*with* Olapade, A. K.) On the generalized logistic and log-logistic distributions. (English summary) **2005j:60029**
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O'Neill, Michael E. (*with* Thomson, Peter C.; Jacobs, Brent C.; Brain, Phil; Butler, Ruth C.; Turner, Heather; Mitakda, Bernadetha) Fitting and comparing seed germination models with a focus on the inverse normal distribution. (English summary)
Ortobelli Lozza, Sergio *see* **Rachev, Svetlozar T. et al., 2005g:62184**
Pakes, Anthony G. Product integration and characterization of probability laws. (English summary) **2005j:60031**
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Paul, Prasanta *see* **Nanda, Asok K. et al., 2005a:62219**
Paulsen, Jostein *see* **Irgens, Christian, 2005k:90020**
Peng, Jiang Yan (*with* He, Ping[4]) A multivariate exponential distribution model. (Chinese. English and Chinese summaries)
Peshwani, Meena *see* **Upadhyay, Satyanshu Kumar et al.**
Pewsey, Arthur (*with* Jones, Michael C.) Discrimination between the von Mises and wrapped normal distributions: just how big does the sample size have to be? (English summary)
Pham-Gia, T. Bayesian inference. (*see* **2005j:62007**)
Philippe, Anne *see* **Bon, Jean-Louis, 2005b:62202**
Pierre-Loti-Viaud, Daniel Crédibilité paramétrique, corrélation et tarification bonus-malus. (English and French summaries) [Parametric credibility, correlation and bonus-malus rating]
Plakhov, Alexander Exact solutions of the one-dimensional Monge-Kantorovich problem. (Russian. Russian summary) **2005m:49074**
Platen, Eckhard *see* **Bühlmann, Hans, 2005a:62222**
Politis, Dimitris N. *see* **Brown, Lawrence David et al., (2005i:62005)**
Pommeret, D. A characterization of Lancaster probabilities with margins in a multivariate additive class. (English summary) **2005k:62139**
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Qiu, Chun Juan *see* **Shi, Guo Feng**
Quesada Molina, José Juan *see* **Nelsen, Roger B. et al., 2005k:60065** *and* **(2005a:62016)**
Quintana, Fernando A. *see* **Arellano-Valle, Reinaldo B. et al., 2005i:60023**
Rachev, Svetlozar T. (*with* Ortobelli Lozza, Sergio; Schwartz, Eduardo) The problem of optimal asset allocation with stable distributed returns. (English summary) **2005g:62184**
— *see also* **Doganoglu, Toker et al., 2005b:91111**
Rajaonarison, Dominique (*with* Bolduc, Denis; Jayet, Hubert) The K-deformed multinomial logit model. (English summary)
Rajesh, G. *see* **Abdul Sathar, E. I. et al., 2005g:62187**
Ram, Chena *see* **Srivastava, Hari M. et al., 2005m:33011**
Raqab, Mohammad Z. Evaluating improvements for spacings of order statistics. (English summary) **2005f:62081**
— Bounds on the expectations of kth record increments. (English summary)
— (*with* Rychlik, Tomasz) Sharp bounds on the expectations of second record values from symmetric populations. (English summary) **2005a:62127**
— *see also* **Cramer, Erhard et al., 2005c:62086** *and* **Danielak, Katarzyna, 2005h:62139**
Ray, Debraj *see* **Duclos, Jean-Yves et al., 2005d:62170**
Regazzini, Eugenio *see* **Lijoi, Antonio, 2005c:60098**
Riffi, Mohamed I. Moments equalities for nonnegative integer-valued random variables. (English summary) **2005g:62033**
Rodríguez Lallena, José Antonio *see* **Nelsen, Roger B. et al., 2005k:60065** *and* **(2005a:62016)**
Ronning, Gerd Linear and nonlinear Dirichlet share equations models. (English summary) **2005e:62154**
de Rooij, Gerrit H. (*with* Stagnitti, Frank) Applications of the beta distribution in soil science. (*see* **2005j:62007**)
Rösch, Angi *see* **Schmidbauer, Harald**
Ross, Sheldon M. *see* **Block, Henry W. et al., 2005j:62116**
Rossi, Camillo *see* **Vittadini, G. et al.**
Roy, Dilip Characterization of a bivariate Weibull distribution based on arithmetic, geometric and harmonic means of failure rates. (English summary) **2005e:62141**
Ruan, Shiling (*with* Wolfe, Douglas A.; Frankel, Gerald S.) Statistical modeling and computer simulation of intergranular corrosion growth in AA2024-T3 aluminum alloy. (English summary)
Ruiz Gómez, José María *see* **Navarro, Jorge, 2005d:62093**
Rullière, Didier (*with* Loisel, Stéphane) Another look at the Picard-Lefèvre formula for finite-time ruin probabilities. (English summary) **2005e:62146**
Rychlik, Tomasz *see* **Raqab, Mohammad Z., 2005a:62127** *and* **Cramer, Erhard et al., 2005c:62087**
Ryu, Dae-Hee *see* **Lee, Kyung Jae et al., 2005c:60022**
Ryu, Hang Keun (*with* Slottje, Daniel J.) Univariate distribution functions and summarizing measures: income distributions from a given Gini measure. (English summary)
Salem, Shaban Mathematical analysis of probability generating function for two drugs resistance model. (English summary)
Sanarico, M. *see* **Vittadini, G. et al.**
Sanjeev, Arora (*with* Kannan, Ravi) Learning mixtures of arbitrary Gaussians. (English summary) (*see* **2005j:68008**)
Saran, J. (*with* Pandey, Aparna) Recurrence relations for marginal and joint moment generating functions of generalized order statistics from Lomax distribution. (English summary) **2005f:62082**
Sathyamoorthi, R. *see* **Kumar, R. Suresh et al.**
Saxena, Ram Kishore *see* **Srivastava, Hari M. et al., 2005m:33011**
Schmidbauer, Harald (*with* Rösch, Angi) Joint threshold exceedances of stock index returns in bull and bear periods. (English summary)
Schmitter, Hans An upper limit of the expected shortfall.
Schmitz, Volker[2] Revealing the dependence structure between $X_{(1)}$ and $X_{(n)}$. (English summary) **2005c:62091**
Schorr, Benno *see* **Krever, Maarten et al., 2005g:90007**
Schoutens, Wim *see* **Morales, Manuel, 2005f:60109**
Schwartz, Eduardo *see* **Rachev, Svetlozar T. et al., 2005g:62184**
Sebastian, G. (*with* George, Preethi Sara) On a generalization of the Cauchy distribution. (English summary) **2005k:60052**
Semeraro, Patrizia *see* **Lillo, Rosa E., 2005b:62215**
Sempi, Carlo *see* **Albanese, Angela A., 2005k:60042** *and* **Durante, Fabrizio, (2005i:62007)**
SenGupta, Ashis On the constructions of probability distributions for directional data. (English summary)
Shao, Yongzhao *see* **Liu, Xin[7], 2005c:62036**
Sharma, H. L. (*with* Vishwakarma, Gayatri) Two inflated probability distributions for the numbers of two types of children in a family. (English summary)
Sharma, S. D. *see* **Singh, R. N.**
Sharma, Yogesh Distribution of the determinant of a non-central complex multivariate matrix. (Hindi. English and Hindi summaries)
Sheinin, E. Ya. *see* **Smirnov, A. P. et al., 2005g:91148**
Shen, Yin Fang A risk-measure and premium pricing model. (Chinese. English and Chinese summaries) **2005g:62185**
Shi, Ding Hua (*with* Guo, Jinli; Liu, Liming) On the SPH-distribution class. (English summary) **2005k:60049**
Shi, Guo Feng (*with* Qiu, Chun Juan) Compound Poisson approximations for individual risk models. (Chinese. English and Chinese summaries)
Shmelev, A. B. *see* **Smirnov, A. P. et al., 2005g:91148**
Simonelli, Italo *see* **Galambos, Janos, 2005h:60041**
Singh, Harshinder *see* **Misra, Neeraj et al., 2005a:60028** *and* **Nanda, Asok K. et al., 2005a:62219**
Singh, R. N. (*with* Sharma, S. D.) A generalized probability model for forward birth interval. (English summary)
Slottje, Daniel J. *see* **Ryu, Hang Keun**
Smirnov, A. P. (*with* Shmelev, A. B.; Sheinin, E. Ya.) Analysis of Fokker-Planck approach for foreign exchange market statistics study. (English summary) **2005g:91148**
Smith, Woollcott *see* **Moore, Dirk F., (2005j:62007)**
Smythe, R. T. Beta distribution in bioassay. (*see* **2005j:62007**)
Sobel, Milton *see* **Ath, Yontha, (2005j:62007)**
Solozhentsev, E. D. Peculiarities of logical-probabilistic risk theory with groups of inconsistent events. (Russian. Russian summary) **2005j:62205**
Soshnikov, Alexander (*with* Fyodorov, Yan V.) On the largest singular values of random matrices with independent Cauchy entries. (English summary) **2005k:82034**
Spiessens, Bart *see* **Fieuws, Steffen et al., (2005f:62006)**
Spizzichino, Fabio *see* **Bassan, Bruno, 2005b:62201**
Srinivasan, S. S. *see* **Jensen, D. R., 2005f:15024**
Srivastava, Hari M. (*with* Saxena, Ram Kishore; Ram, Chena) A unified presentation of the Gamma-type functions occurring in diffraction theory and associated probability distributions. (English summary) **2005m:33011**
Stagnitti, Frank *see* **de Rooij, Gerrit H., (2005j:62007)**
Stanford, David A. *see* **Willmot, Gordon E. et al., 2005i:60175**
Su, Chun (*with* Hu, Zhi Shui; Tang, Qi He) Characterizations of the heaviness of distribution tails of non-negative variables. (Chinese. English and Chinese summaries) **2005e:60038**
Subramanian, V. A study on promotion strategy in manpower planning. (English summary)
Sultan, Khalaf Salman *see* **Mahmoud, Mohamed Abdel Wahab et al., 2005c:62090**

Sun, Li-juan *see* **Tsai, Cary Chi-Liang**, 2005f:60042
Szczesny, Wiesław *see* **Kowalczyk, Teresa**, (2005e:62008) *and* (2005e:62008)
Tan, Ji Yang *see* **Yang, Shan Chao et al.**, 2005k:91189
Tang, Qi He *see* **Goovaerts, Marc J. et al.**, 2005b:91142; 2005h:91131 *and* **Su, Chun et al.**, 2005e:60038
Taylor, Greg Chain ladder bias. (English summary) 2005b:62216
— Risk and discounted loss reserves. (English summary) 2005a:62233
— *see also* **Hoedemakers, Tom**
Taylor, M. D. *see* **Li, Xin[3] et al.**, 2005b:60031
Temnov, G. Risk process with random income.
Thomson, Peter C. *see* **O'Neill, Michael E. et al.**
Tikhomirov, A. N. *see* **Götze, Friedrich**, 2005b:62116
Tiku, Moti L. *see* **Akkaya, Ayşen D.**
Tirler, Günter (*with* Dalgaard, Peter; Hörmann, Wolfgang; Leydold, Josef) An error in the Kinderman-Ramage method and how to fix it. (English summary)
Troutt, Marvin D. (*with* Pang, Wan-Kai; Hou, Shui Hung) ★ Vertical density representation and its applications. 2005b:62005
Trutschnig, Wolfgang (*with* Hareter, Dietmar) Fuzzy probability distributions. 2005k:60050
Tsai, Cary Chi-Liang (*with* Sun, Li-juan) On the discounted distribution functions for the Erlang (2) risk process. (English summary) 2005f:60042
Turley, Robert S. *see* **Bandourian, Ripsy et al.**
Turner, Heather *see* **O'Neill, Michael E. et al.**
Úbeda Flores, Manuel A method for constructing trivariate distributions with given bivariate margins. (English summary) 2005j:62122
— *see also* **Nelsen, Roger B. et al.**, 2005f:60048; 2005k:60065 *and* (2005a:62016)
Upadhyay, Satyanshu Kumar (*with* Javed, Iftikhar Ahmed; Peshwani, Meena) Bayesian analysis of generalized four-parameter Burr distribution via Gibbs sampler. (English summary)
Văduva, Ion Simulation of some multivariate distributions. (English summary) 2005a:62132
(Valdez, Emiliano A.) *see* **Bilodeau, Martin**
Vernic, Raluca On some actuarial models involving sums of dependent risk. (English summary) 2005k:62242
Villar, José *see* **Campos, F. Alberto**, (2005i:62007)
Vishwakarma, Gayatri *see* **Sharma, H. L.**
Vittadini, G. (*with* Sanarico, M.; Rossi, Camillo) Recent development in statistical methodology for evaluating the efficiency of hospitals. (Italian. English and Italian summaries)
Vrac, M. *see* **Diday, Edwin**, 2005h:62010
Wan, Jian Ping *see* **Gu, Wei et al.**, 2005h:62285
Wang, Feng Yu *see* **Deng, Ping Ji**, 2005b:60040
Wang, Guo Jing (*with* Zhang, Chun Sheng; Wu, Rong[1]) Ruin theory for the risk process described by PDMPs. (English summary) 2005a:62234
Wang, Han Xing *see* **Lu, Jin-yu et al.**
Wang, Jiuzhou (*with* Boyer, Joseph; Genton, Marc G.) A skew-symmetric representation of multivariate distributions. (English summary) 2005k:62140
Wang, Li Li *see* **Gu, Wei et al.**, 2005h:62285
Wang, Lin Shu On new classes of lifetime distributions. (Chinese. English and Chinese summaries) 2005m:62189
Wang, Rong Ming *see* **Zhang, Xiaohong et al.**, 2005e:62148
Wang, Xuesong (*with* Li, Yongzhen; Dai, Dahai; Xiao, Shunping; Zhuang, Zhaowen) Instantaneous polarization statistics of electromagnetic waves. (English summary)
Wang, Yan Chen (*with* Dai, Jin; Zhang, Bo[6]) On insurance actuarial functions under random interest rates. (Chinese. English and Chinese summaries) 2005j:91049
Watkins, A. J. (*with* John, A. M.) On the expected Fisher information for the Weibull distribution with type I censored data. (English summary)
Waxman, David Dynamics of a quantitative character subject only to stabilising selection. (English summary) 2005m:92047
Wedel, Michel *see* **Böckenholt, Ulf et al.**
Wei, Li (*with* Yang, Hailiang) Explicit expressions for the ruin probabilities in Erlang risk processes with Pareto individual claim distributions. (English summary) 2005d:62167
Wei, Xiao (*with* Hu, Yi-jun) Finite time ruin probability with variable interest rate and extended regular variation. (English summary) 2005j:91051
Weinberger, Marcelo J. *see* **Merhav, Neri**, 2005b:62018
Weron, Aleksander *see* **Burnecki, Krzysztof et al.**, 2005k:91144
Wesołowski, Jacek (*with* Ahsanullah, Mohammad) Switching order statistics through random power contractions. (English summary) 2005f:62083
— *see also* **Bobecka, Konstancja**, 2005h:62145 *and* 2005h:62146
de Wet, T. *see* **de Jongh, P. J. et al.**
Wikan, Arild Dynamical consequences of harvest in discrete age-structured population models. (English summary) 2005f:92026
Willink, R. Approximating the difference of two t-variables for all degrees of freedom using truncated variables. (English summary)
— Bounds on the bivariate normal distribution function. (English summary)
Willmot, Gordon E. (*with* Dickson, David C. M.; Drekic, Steve; Stanford, David A.) The deficit at ruin in the stationary renewal risk model. 2005i:60175
Wirch, Julia L. *see* **Hardy, Mary R.**
Wolfe, Douglas A. *see* **Ruan, Shiling et al.**
Wondmagegnehu, Eshetu T. On the behavior and shape of mixture failure rates from a family of IFR Weibull distributions. (English summary) 2005b:62212
Wortman, M. A. (*with* Elkins, Debra A.) Stochastic modeling for computational warranty analysis. (English summary) 2005k:90023
Wu, Dane W. The relative attributable risk for stratification of n factors: some applications of conditional probability. (English summary) 2005d:92024
(Wu, Jong-Wuu) *see* **Dye, Chung-Yuan**, 2005b:90032
Wu, Rong[1] *see* **Wang, Guo Jing et al.**, 2005a:62234
Wunderink, Sophia *see* **Krever, Maarten et al.**, 2005g:90007
Wüthrich, Mario V. Extreme value theory and Archimedean copulas. (English summary) 2005d:62168
Wysocki, Włodzimierz Properties of the induced semigroup of an Archimedean copula. (English summary) 2005g:62095
Xekalaki, Evdokia (*with* Panaretos, John) A binomial distribution with dependent trials and its use in stochastic model evaluation. (English summary) 2005k:62050
Xia, Zi Xiang *see* **He, Shu Hong**
Xiang, Yang Liu (*with* Liu, Zai Ming) Ruin probabilities in compound Poisson risk model with Markov-modulated premium rates. (Chinese. English and Chinese summaries)
Xiao, Hong Min Some properties of Laplace order with applications in related aging notions. (Chinese. English and Chinese summaries)
Xiao, Shunping *see* **Wang, Xuesong et al.**
Xiong, Fu Sheng The regeneration of log gamma distribution and negative log gamma distribution. (Chinese. English and Chinese summaries) 2005m:62195
Yang, Hailiang *see* **Wei, Li**, 2005d:62167
Yang, Jianping *see* **Hu, Taizhong**, 2005a:60027
Yang, Kyeongcheol *see* **Choi, Se Ah**, 2005d:94094
Yang, Shan Chao (*with* Ma, Chong; Tan, Ji Yang) Risk model of random premium income. (Chinese. English and Chinese summaries) 2005k:91189
Yaniv, Osnat (*with* Motro, Uzi) Time-dependent animal conflicts. I. The symmetric case. (English summary)
— (*with* Motro, Uzi) Time-dependent animal conflicts. II. The asymmetric case. (English summary)
Yao, David D. *see* **Glasserman, Paul**, 2005a:62128
Yeh, Hsiao Chên Some properties and characterizations for generalized multivariate Pareto distributions. (English summary) 2005b:62118
Yin, Chuan Cun *see* **Bi, Xiu Chun**, 2005m:62191
Yu, Wen Guang[2] Ruin probability for multitype-insurance risk models with compound generalized homogeneous Poisson process. (Chinese. English and Chinese summaries) 2005a:62235
Zech, G. *see* **Aslan, B.**
Zhang, Bo[6] *see* **Wang, Yan Chen et al.**, 2005j:91049
Zhang, Chun Sheng *see* **Wang, Guo Jing et al.**, 2005a:62234
Zhang, Li Yuan Characterization of the degree of aging properties by the total time on test transform. (Chinese. English and Chinese summaries)
Zhang, Xiaohong (*with* Wang, Rong Ming; Kang, Kai) A class of integral equations of Erlang(2) risk process under interest force. (English and Chinese summaries) 2005e:62148
Zhang, Xin Sheng *see* **Ding, Ying[2]**, 2005h:60052
Zhang, Yi[3] (*with* Li, Zhi Ying) Risk model for interest randomness. (Chinese. English and Chinese summaries) 2005a:91074
Zhao, Fei *see* **Lu, Jin-yu et al.**
Zhuang, Zhaowen *see* **Wang, Xuesong et al.**
Zou, Jie Zhong *see* **Luo, Yan** *and* **Chen, Qian**

Items listed otherwise than by author

CreditRisk[+] in the banking industry ★ CreditRisk[+] in the banking industry. 2005c:91007
Handbook:
Beta distribution and its applications ★ Handbook of beta distribution and its applications. 2005j:62007

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Ahsanullah, Mohammad *see* **Raqab, Mohammad Z.**
Antzoulakos, Demetrios L. Extended Fibonacci numbers and polynomials with probability applications. (English summary) 2005m:62039
Bulut, Yunus *see* **Güngör, Mehmet et al.**, 2005b:62037
Cai, Jun *see* **Willmot, Gordon E. et al.**, 2005m:62040
Chang, Se Kyung *see* **Lee, Min Young**, 2005b:62039
Chen, Tuhao J. A lower bound using Hamilton-type circuits and its applications. (English summary) 2005b:62036
Coelho, Carlos A. The generalized near-integer gamma distribution: a basis for 'near-exact' approximations to the distribution of statistics which are the product of an odd number of independent Beta random variables. (English summary) 2005d:62024
Di Bucchianico, Alessandro (*with* van de Wiel, Mark A.) Exact null distributions of distribution-free quadratic t-sample statistics. (English summary) 2005f:62024
Drekic, Steve *see* **Willmot, Gordon E. et al.**, 2005m:62040
Garg, Mridula (*with* Mishra, Girish; Gupta, Mahesh Kumar) The distribution of the ratio of products of rational powers of independent random variables. (English summary) 2005k:62046
Gharib, Mohamed (*with* Nassar, Manal M.; Ramadan, M. M.) On random sum characterization. (English and Arabic summaries) 2005g:62032
Gökhan, Ayşegül *see* **Güngör, Mehmet et al.**, 2005b:62037
Güngör, Mehmet (*with* Gökhan, Ayşegül; Bulut, Yunus) On multivariate order statistics by marginal ordering of i.n.n.i.d. random vectors from discrete parents. (English summary) 2005b:62037
Gupta, Arjun K. *see* **Nadarajah, Saralees**
Gupta, Mahesh Kumar *see* **Garg, Mridula et al.**, 2005k:62046
Heimann, Günter (*with* Neuhaus, Georg) On the exact conditional distribution for Peto's combined test for carcinogenicity assays. (English summary) 2005h:62049
Hong, Chong Sun (*with* Hong, Sung Sick) Comparison study of bivariate Laplace distributions with the same marginal distribution. (English summary) 2005b:62038
Hong, Sung Sick *see* **Hong, Chong Sun**, 2005b:62038
Howlader, M. *see* **Zaman, M. R. et al.**, 2005h:62051
Huang, Ping-Huang (*with* Hwang, Tea-Yuan) The inference of Gini's mean difference. (English summary) 2005h:62050
Hürlimann, Werner Multivariate Fréchet copulas and conditional value-at-risk. (English summary) 2005c:62029
— On the economic risk capital of portfolio insurance. (English summary) 2005f:62025
— Integer powers and Benford's law. (English summary) 2005c:62030
Hwang, Tea-Yuan *see* **Huang, Ping-Huang**, 2005h:62050

Ito, Yoshifusa (*with* Izumi, Hiroyuki) More geometry for the distribution of the sample correlation coefficient. (English summary)
Izumi, Hiroyuki *see* **Ito, Yoshifusa**
Jacob, Joy (*with* Jose, K. K.; Mathai, Arak M.) Some properties of real matrix-variate inverted generalized Dirichlet integrals. (English summary) **2005j:62034**
John, A. M. *see* **Watkins, A. J.**
Jones, Michael C. On some expressions for variance, covariance, skewness and L-moments. (English summary) **2005i:62039**
Jose, K. K. *see* **Jacob, Joy et al., 2005j:62034**
Kotz, Samuel *see* **Nadarajah, Saralees**
Kumar, Dinesh[3] *see* **Saxena, Ram Kishore et al., 2005k:62049**
Lee, Min Young (*with* Chang, Se Kyung) Recurrence relations for quotient moments of the Pareto distribution by record values. (English summary) **2005b:62039**
Leipnik, Roy B. (*with* Pearce, Charles E. M.) Independent non-identical five-parameter gamma-Weibull variates and their sums. (English summary)
Li, Kai Can Exact distribution of the concentration matrix for decomposable graphical models. (Chinese. English and Chinese summaries) **2005k:62047**
Mathai, Arak M. A pathway to matrix-variate gamma and normal densities. (English summary) **2005k:62048**
— *see also* **Jacob, Joy et al., 2005j:62034**
Mishra, Girish *see* **Garg, Mridula et al., 2005k:62046**
Nadarajah, Saralees (*with* Gupta, Arjun K.) The beta Fréchet distribution. (English summary)
— (*with* Kotz, Samuel) Skewed bivariate distributions generated by marginal replacement with Pearson type VII kernel. (English summary)
Nair, Maya T. *see* **Sankaran, P. G.**
Nassar, Manal M. *see* **Gharib, Mohamed et al., 2005g:62032**
Neuhaus, Georg *see* **Heimann, Günter, 2005h:62049**
Panaretos, John *see* **Xekalaki, Evdokia, 2005k:62050**
Paul, D. N. R. *see* **Zaman, M. R. et al., 2005h:62051**
Pearce, Charles E. M. *see* **Leipnik, Roy B.**
Peköz, Erol (*with* Ross, Sheldon M.) Compound random variables. (English summary)
Ram, Chena *see* **Saxena, Ram Kishore et al., 2005k:62049**
Ramadan, M. M. *see* **Gharib, Mohamed et al., 2005g:62032**
Raqab, Mohammad Z. (*with* Ahsanullah, Mohammad) Inferences for generalized secant hyperbolic distribution based on order statistics. (English summary)
Riffi, Mohamed I. Moments equalities for nonnegative integer-valued random variables. (English summary) **2005g:62033**
Ross, Sheldon M. *see* **Peköz, Erol**
Roy, Manindra Kumar *see* **Zaman, M. R. et al., 2005h:62051**
Sankaran, P. G. (*with* Nair, Maya T.) On a finite mixture of beta distributions. (English summary)
Saxena, Ram Kishore (*with* Ram, Chena; Kumar, Dinesh[3]) Application of the $\overline{H}$-function in statistical distributions. (Hindi. English and Hindi summaries) **2005k:62049**
Vernic, Raluca On the evaluation of some bivariate compound Poisson distributions. (English summary) **2005c:62031**
Watkins, A. J. (*with* John, A. M.) On the expected Fisher information for the Weibull distribution with type I censored data. (English summary)
van de Wiel, Mark A. Exact null distributions of quadratic distribution-free statistics for two-way classification. (English summary) **2005f:62026**
— *see also* **Di Bucchianico, Alessandro, 2005f:62024**
Willmot, Gordon E. (*with* Drekic, Steve; Cai, Jun) Equilibrium compound distributions and stop-loss moments. (English summary) **2005m:62040**
Xekalaki, Evdokia (*with* Panaretos, John) A binomial distribution with dependent trials and its use in stochastic model evaluation. (English summary) **2005k:62050**
Zaman, M. R. (*with* Roy, Manindra Kumar; Paul, D. N. R.; Howlader, M.) Chi-square mixture of some discrete distributions. (English summary) **2005h:62051**

Items with secondary classifications in 62E15

Ahn, Soohan (*with* Ramaswami, V.) Bilateral phase type distributions. (English summary) **2005m:60022**
Balakrishnan, Narayanaswamy (*with* Stepanov, Aleksei Vasil′evich) Two characterizations based on order statistics and records. (English summary) **2005f:62018**
Barakat, Haroon M. On the restricted convergence of the intermediate and central terms of order statistics. (English summary) **2005e:62023**
— (*with* El-Shandidy, Mouhamed A.) Computing the distribution and expected value of the concomitant rank-order statistics. (English summary) **2005m:62106**
Chang, Kuang-Chao *see* **Chiou, Paul**
Chen, Tuhao J. (*with* Gupta, Arjun K.; Nguyen, Truc T.) The density of the skew normal sample mean and its applications. (English summary) **2005e:62084**
Chiou, Paul Confidence bounds of scale parameters using pilot samples. (English summary) **2005b:62060**
— (*with* Chang, Kuang-Chao) Conditional interval estimation for the ratio of extreme-value scale (Weibull shape) parameters following rejection of a pre-test. (English summary)
Ciumara, Roxana The moments and descending factorial moments of compound mixed truncated Poisson distribution. (English summary) **2005f:62019**
Cohen, Joel E. (*with* Kemperman, Johannes H. B.; Zbăganu, Gheorghiță) Elementary inequalities that involve two nonnegative vectors or functions. (English summary) **2005m:60034**
Consul, P. C. (*with* Famoye, Felix) Equivalence of both classes of Lagrangian probability distributions. (English summary) **2005k:60044**
Crainiceanu, Ciprian M. (*with* Ruppert, David) Likelihood ratio tests for goodness-of-fit of a nonlinear regression model. (English summary) **2005j:62094**
Dai, Yong Long *see* **Li, Shao Ming et al., 2005m:62114**
Danielak, Katarzyna (*with* Raqab, Mohammad Z.) Sharp bounds on expectations of kth record spacings from restricted families. (English summary) **2005h:62139**
Datta, Nilanjana (*with* Dorlas, Teunis C.) Random walks on a complete graph: a model for infection. (English summary)
Demétrio, Clarice G. B. *see* **Kokonendji, Célestin C. et al., 2005h:62052**
Díaz-García, José A. (*with* Leiva-Sánchez, Víctor) A new family of life distributions based on the elliptically contoured distributions. (English summary) **2005h:62275**
Domínguez-Molina, J. Armando *see* **Gupta, Arjun K. et al., 2005a:62137**
Dorlas, Teunis C. *see* **Datta, Nilanjana**
Dossou-Gbété, Simplice *see* **Kokonendji, Célestin C. et al., 2005h:62052**
Elamir, Elsayed A. H. (*with* Seheult, Allan H.) Exact variance structure of sample L-moments. (English summary)
El-Shandidy, Mouhamed A. *see* **Barakat, Haroon M., 2005m:62106**
Famoye, Felix *see* **Consul, P. C., 2005k:60044**
Fătu-Mihoc, Cristina Ioana *see* **Mihoc, Ion, 2005a:62041** *and* **2005h:62079**
Ghorbel, M. (*with* Huillet, Thierry) Fragment size distributions in random fragmentations with cutoff. (English summary) **2005i:62041**
González-Farías, Graciela *see* **Gupta, Arjun K. et al., 2005a:62137**
Goyal, Babita *see* **Sen, Kanwar, 2005c:60010**
Gupta, Arjun K. (*with* González-Farías, Graciela; Domínguez-Molina, J. Armando) A multivariate skew normal distribution. (English summary) **2005a:62137**
— (*with* Nagar, Daya K.) Distribution of the determinant of the sample correlation matrix from a mixture normal model. (English summary) **2005i:62086**
— *see also* **Chen, Tuhao J. et al., 2005e:62084** *and* **Nadarajah, Saralees, (2005j:62007)**
Hingley, P. J. Analytic estimator densities for common parameters under misspecified models. (English summary) **2005d:62013**
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Iwase, Kōsei *see* **Kawamura, Toshihiko, 2005k:62065**
Kawamura, Toshihiko (*with* Iwase, Kōsei) Composition of estimators based on characterizations by maximum entropy method of a generalized Pareto distribution. (Japanese. English and Japanese summaries) **2005k:62065**
Kemp, Adrienne W. (*with* Kemp, C. David) Factorial moment characterizations for certain binomial-type distributions. (English summary) **2005k:62037**
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Kemperman, Johannes H. B. *see* **Cohen, Joel E. et al., 2005m:60034**
Kerekesha, D. P. Exact solution of the risk equation with a piecewise-constant current reserve function. (Ukrainian. Ukrainian summary) **2005j:62204**
Khan, Mohammad K. *see* **Khan, Rasul A., 2005d:62125**
Khan, Rasul A. (*with* Khan, Mohammad K.) On the use of the SPRT in determining the properties of some CUSUM procedures. (English summary) **2005d:62125**
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Leiva-Sánchez, Víctor *see* **Díaz-García, José A., 2005h:62275**
Li, Shao Ming (*with* Dai, Yong Long; Teng, Cheng Ye) Quaternion beta distribution, F-distribution and the distributions of their latent roots. (Chinese. English and Chinese summaries) **2005m:62114**
Luo, Chun Comparison of two normal distributions. (Chinese. English and Chinese summaries) **2005f:62095**
Mathai, Arak M. (*with* Provost, Serge B.) On the distribution of order statistics from generalized logistic samples. (English summary)
Mihoc, Ion (*with* Fătu-Mihoc, Cristina Ioana) About the multinomial distribution and its estimation. (English summary) **2005h:62079**
— (*with* Fătu-Mihoc, Cristina Ioana) On the bilateral truncated exponential distributions. (English summary) **2005a:62041**
Nadarajah, Saralees (*with* Gupta, Arjun K.) Products and linear combinations. (*see* **2005j:62007**)
— (*with* Kotz, Samuel) Exact and approximate distributions for the product of Dirichlet components. (English summary) **2005m:33025**
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— *see also* **Gupta, Arjun K., 2005i:62086**
Nguyen, Truc T. *see* **Chen, Tuhao J. et al., 2005e:62084**
Ohtani, Kazuhiro (*with* Tanizaki, Hisashi) Exact distributions of R^2 and adjusted R^2 in a linear regression model with multivariate t error terms. (English summary)
Provost, Serge B. *see* **Mathai, Arak M.**
Ramaswami, V. *see* **Ahn, Soohan, 2005m:60022**
Raqab, Mohammad Z. Evaluating improvements for spacings of order statistics. (English summary) **2005f:62081**
— Bounds on the expectations of kth record increments. (English summary)
— (*with* Rychlik, Tomasz) Sharp bounds on the expectations of second record values from symmetric populations. (English summary) **2005a:62127**
— *see also* **Danielak, Katarzyna, 2005h:62139**
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— On a bivariate generalisation of Sundt's class of counting distributions. (English

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Adell, José Antonio (*with* Lekuona, Alberto) Sharp estimates in signed Poisson approximation of Poisson mixtures. (English summary) **2005k:62051**
Agho, Kingsley (*with* Dai, Wen; Robinson, John) Empirical saddlepoint approximations of the Studentized ratio and regression estimates for finite populations. (English summary)
Aleškevičienė, Aldona Kazio (*with* Statulevičius, Vytautas) Approximation by the compound Poisson distribution. (Russian. Russian summary) **2005m:62041**
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Chen, Jie[6] (*with* Glaz, Joseph) Approximations for multiple scan statistics. (English summary) (*see* **2005f:60007**)
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Delattre, Sylvain (*with* Fort, Jean-Claude; Pagès, Gilles) Local distortion and μ-mass of the cells of one dimensional asymptotically optimal quantizers. (English summary) **2005e:62021**
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Kolassa, John E. Continuity correction for the score statistic in discrete regression models. (English summary) (*see* **2005i:62004**)
Lekuona, Alberto *see* **Adell, José Antonio, 2005k:62051**
Lieberman, Offer (*with* Rousseau, Judith; Zucker, David M.) Valid asymptotic expansions for the maximum likelihood estimator of the parameter of a stationary, Gaussian, strongly dependent process. (English summary) **2005a:62044**
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Sekiya, Yuri (*with* Taneichi, Nobuhiro) Improvement of approximations for the distributions of multinomial goodness-of-fit statistics under nonlocal alternatives. (English summary)
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Stoyanov, Stoyan V. (*with* Racheva-Iotova, Boryana) Univariate stable laws in the field of finance—approximation of density and distribution functions. (English summary)
Strawderman, Robert L. Computing tail probabilities by numerical Fourier inversion: the absolutely continuous case. (English summary) **2005d:62025**
Taneichi, Nobuhiro *see* **Sekiya, Yuri**
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Wegkamp, Marten H. *see* **Hengartner, Nicolas W., 2005k:62052**
Wellner, Jon A. *see* **Nan, Bin et al., 2005c:62032**
Willink, R. Approximating the difference of two t-variables for all degrees of freedom using truncated variables. (English summary)
Yoo, Seung-Hoon A note on an approximation of the mobile communications expenditures distribution function using a mixture model. (English summary)
Zheng, Zu Kang (*with* Ding, Bang Jun) Problems of estimating a distribution function with interval censored data. (Chinese. English and Chinese summaries)
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Items with secondary classifications in 62E17

Albers, Willem *see* **Reijnen, Rajko et al.**
Ali, M. Masoom (*with* Woo, Jungsoo) Approximate estimation of the shape parameter in a gamma distribution. (English summary)
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Chaudhry, Mohan L. (*with* Choi, Dae Won; Chae, Kyung Chul) Computational analysis of stationary waiting-time distributions of $GI^X/R/1$ and $GI^X/D/1$ queues. (English summary)
Cho, Hokwon A. *see* **Govindarajulu, Z., 2005c:62141**
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Coelho, Carlos A. The generalized near-integer gamma distribution: a basis for 'near-exact' approximations to the distribution of statistics which are the product of an odd number of independent Beta random variables. (English summary) **2005d:62024**
Couso Blanco, Inés (*with* Sánchez, Luciano; Gil Álvarez, Pedro Ángel) Imprecise distribution function associated to a random set. (English summary) **2005a:60020**
Cuesta-Albertos, Juan A. (*with* Matrán, Carlos; Rodríguez Rodríguez, Jesús M.) Shape of a distribution through the L_2-Wasserstein distance. (English summary) **2005k:62030**
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— *see also* **Nadarajah, Saralees, (2005j:62007)**
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Nelsen, Roger B. (*with* Quesada Molina, José Juan; Rodríguez Lallena, José Antonio; Úbeda Flores, Manuel) Some new properties of quasi-copulas. (English summary) **2005b:60032**
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Pommeret, D. Approximate polynomial expansion for joint density. (English summary)
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Quesada Molina, José Juan *see* **Nelsen, Roger B. et al., 2005b:60032**
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Schoen, E. D. Dispersion-effects detection after screening for location effects in unreplicated two-level experiments. (English summary)
Shi, Ding Hua (*with* Guo, Jinli; Liu, Liming) On the SPH-distribution class. (English summary) **2005k:60049**
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Arcones, Miguel A. Moderate deviations of empirical processes. (English summary) **2005h:62054**

Bai, Zhi-Dong (*with* Hu, Fei Fang) Asymptotics in randomized urn models. (English summary) **2005k:62055**

Barakat, Haroon M. On the restricted convergence of the intermediate and central terms of order statistics. (English summary) **2005e:62023**

Barndorff-Nielsen, Ole E. (*with* Shephard, Neil) Econometric analysis of realized covariation: high frequency based covariance, regression, and correlation in financial economics. (English summary) **2005a:62046**

Bloznelis, Mindaugas On combinatorial Hoeffding decomposition and asymptotic normality of subgraph count statistics. (English summary) (*see* **2005d:00014**)

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Bowman, K. O. (*with* Shenton, L. R.) Mixtures, hybrid mixtures, canonical forms, and Matusita's distance. (English summary) **2005c:62033**

— (*with* Shenton, L. R.) Poisson mixtures, asymptotic variance, and alternant determinants. (English summary)

Boyarinov, R. N. (*with* Chubarikov, V. N.; Ngongo, I. S.) Asymptotic formulas for fractional moments of special sums. (English summary) **2005k:62056**

Buldygin, Valerii V. (*with* Utzet, Frederic; Zayats, Vladimir) Asymptotic normality of cross-correlogram estimates of the response function. (English summary) **2005e:62024**

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Dodge, Yadolah (*with* Lemburger, Pirmin) Asymptotic properties of the multivariate L_p-mean. (English summary) **2005i:62044**

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Ghorai, J. K. *see* **Dikta, Gerhard et al., 2005j:62036**

Grömping, Ulrike (*with* Weimann, Ulla) The asymptotic distribution of the partial attributable risk in cross-sectional studies. (English summary)

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— (*with* Wang, Qi Ying) Exact convergence rate and leading term in central limit theorem for Student's t statistic. (English summary) **2005e:62025**

Hashorva, Enkelejd Asymptotics and bounds for multivariate Gaussian tails. (English summary) **2005m:62046**

Heinrich, Lothar (*with* Pukelsheim, Friedrich; Schwingenschlögl, Udo) Sainte-Laguë's chi-square divergence for the rounding of probabilities and its convergence to a stable law. (English summary) **2005f:62028**

Heyde, Christopher C. Asymptotics and criticality for a correlated Bernoulli process. (English summary) **2005j:62037**

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Hu, Fei Fang *see* **Bai, Zhi-Dong, 2005k:62055**

Jing, Bing-Yi *see* **Wang, Qi Ying, 2005h:62060**

Knutova, E. M. Asymptotic properties of Student's conditional distributions in a Hilbert space. (Russian. English and Russian summaries) **2005h:62056**

Kollo, Tõnu (*with* Selart, Anne) Density expansions for correlations and eigenvalues of the covariance matrix. (English summary)

Kundu, Debasis (*with* Gupta, Rameshwar D.; Manglick, Anubhav) Discriminating between the log-normal and generalized exponential distributions. (English summary) **2005f:62029**

Lemburger, Pirmin *see* **Dodge, Yadolah, 2005i:62044**

de Leon, A. R. (*with* Carrière, K. C.) A generalized Mahalanobis distance for mixed data. (English summary) **2005f:62030**

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Manglick, Anubhav *see* **Kundu, Debasis et al., 2005f:62029**

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Qin, Gengsheng (*with* Tsao, Min; Hsu, Yu-Sheng) Empirical likelihood ratio confidence interval for the Winsorized mean. (English summary)

Rempała, Grzegorz A. Asymptotic factorial powers expansions for binomial and negative binomial reciprocals. (English summary) **2005d:62026**

Resnick, Sidney I. The extremal dependence measure and asymptotic independence. (English summary) **2005a:62047**

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Stamatović, Siniša One method of median estimation. (English summary) **2005b:62043**

Su, Chun (*with* Lou, Jianxiong; Wei, Gang[1]) On the classes of asymptotic distributions for the sums of record values. I. **2005h:62057**

— (*with* Lou, Jianxiong; Wei, Gang[1]) On the classes of asymptotic distributions for the sums of record values. II. (English summary) **2005h:62058**

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— *see also* **Ng, Kai W., 2005g:62034** *and* **Wang, Dingcheng, 2005j:62038**

Tonda, Tetsuji (*with* Fujikoshi, Yasunori) Asymptotic expansion of the null distribution of LR statistic for multivariate linear hypothesis when the dimension is large. (English summary) **2005a:62048**

Tsao, Min A new method of calibration for the empirical loglikelihood ratio. (English summary) **2005h:62059**

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Wang, Dingcheng (*with* Tang, Qi He) Maxima of sums and random sums for negatively associated random variables with heavy tails. (English summary) **2005j:62038**

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Wang, Qi Ying (*with* Jing, Bing-Yi) Weighted bootstrap for U-statistics. (English summary) **2005h:62060**

— *see also* **Hall, Peter G., 2005e:62025**

Wei, Gang[1] *see* **Su, Chun et al., 2005h:62057** *and* **2005h:62058**

Weimann, Ulla *see* **Grömping, Ulrike**

Wüthrich, Mario V. Bivariate extension of the Pickands-Balkema-de Haan theorem. (English and French summaries) **2005b:62044**

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Zhang, Ri Quan Asymptotic normality of k-U statistic. (Chinese. English and Chinese summaries) **2005g:62036**

— (*with* Wang, Jing Long) Asymptotic normality of anti-symmetric K-U statistic. (Chinese. English and Chinese summaries) **2005e:62026**

Zhimbo, È. K. Distribution characterization in a practical moment problem. (English summary)

Zhou, Xiao-Hua *see* **Hall, Peter G., 2005b:62041**

Zhukova, G. N. Asymptotic behavior of Student's statistic. (Russian. Russian summary) **2005m:62047**

Zolotukhina, L. A. (*with* Linov, A. Ya.) Asymptotic properties of the matches number in pairing observations. (English summary) **2005f:62032**

Zuo, Yijun (*with* Cui, Heng-jian; Young, Dennis) Influence function and maximum bias of projection depth based estimators. (English summary) **2005a:62049**

Items with secondary classifications in 62E20

Akritas, Michael G. (*with* Papadatos, N.) Heteroscedastic one-way ANOVA and lack-of-fit tests. (English summary) **2005a:62163**

Antoch, Jaromír (*with* Grégoire, Gérard; Jarušková, Daniela) Detection of structural changes in generalized linear models. (English summary) **2005g:62131**

Antonelli, Sabrina (*with* Regoli, Giuliana) On the Poisson-binomial relative error. (English summary) **2005m:62042**

Asadi, Majid Some characterizations on generalized Pareto distributions. (English summary) **2005m:62027**

Bai, Zhi-Dong (*with* He, Xuming) A chi-square test for dimensionality with non-Gaussian data. (English summary) **2005b:62126**

Barakat, Haroon M. (*with* El-Shandidy, Mouhamed A.) On general asymptotic behaviour of order statistics with random index. (English summary) **2005m:60041**

— (*with* El-Shandidy, Mouhamed A.) Order statistics with random sample size. (English summary) **2005k:62134**

Barbe, Ph. (*with* McCormick, William P.) Second-order expansion for the maximum of some stationary Gaussian sequences. (English summary) **2005c:60070**

Berry, Steve (*with* Linton, Oliver B.; Pakes, Ariel) Limit theorems for estimating the parameters of differentiated product demand systems. (English summary) **2005c:62054**

Borovkov, A. A. On the asymptotics of distributions of first-passage times. II. (Russian. Russian summary) **2005d:60064**

Bose, Arup (*with* Sengupta, Debapriya) Strong consistency of minimum contrast estimators with applications. (English summary) **2005a:62068**

Boshnakov, Georgi N. On the asymptotic properties of multivariate sample autocovariances. (English summary) **2005h:62234**

Bussières, Isabelle *see* **Larocque, Denis, (2005m:62007)**

Cabrera, Javier (*with* Fernholz, Luisa Turrin) Multivariate targeting with applications to ellipse estimation. (English summary) **2005a:62140**

Caeiro, Frederico *see* **Gomes, M. Ivette et al., 2005g:62064**

Cai, Jun (*with* Garrido, José) Asymptotic forms and bounds for tails of convolutions of compound geometric distributions, with applications. (English summary) **2005d:60022**

Chan, Wen-Yaw *see* **Lai, Yi-Hsuan et al., 2005c:62061**

Chen, Feng *see* **Li, Ze Hui et al., 2005m:62193**

Chen, Lin-An *see* **Lai, Yi-Hsuan et al., 2005c:62061**

Chen, Zhiqiang[1] (*with* Giné, Evarist) Another approach to asymptotics and bootstrap of randomly trimmed means. (English summary) **2005m:62107**

Cheng, Feng Yang Ruin probabilities for large claims in generalized delayed renewal risk model. (English summary) **2005h:62283**

Chichagov, V. V. Concerning asymptotic normality of a class of unbiased estimators in the case of absolutely continuous distributions. **2005e:62038**

Chistyakov, G. P. (*with* Götze, Friedrich) Limit distributions of Studentized means. (English summary) **2005f:60055**

Claeskens, Gerda Restricted likelihood ratio lack-of-fit tests using mixed spline models. (English summary) **2005g:62037**

Coelho, Carlos A. A generalized integer gamma distribution as an asymptotic replacement for a logbeta distribution & applications. (English summary) **2005b:62040**
— The generalized near-integer gamma distribution: a basis for 'near-exact' approximations to the distribution of statistics which are the product of an odd number of independent Beta random variables. (English summary) **2005d:62024**
Cook, R. Dennis *see* **Yin, Xiangrong, 2005e:62105**
Cordero, Minerva *see* **Sun, Shan, 2005k:60080**
Crawford, John R. *see* **Garthwaite, Paul H.**
Csörgő, Sándor (*with* Szabó, Tamás Zoltán) Weighted correlation tests for gamma and lognormal families. (English summary) **2005b:62046**
Cuevas, Antonio (*with* Febrero-Bande, Manuel; Fraiman, Ricardo) An anova test for functional data. (English summary)
Cui, Heng-jian (*with* He, Xuming; Ng, Kai W.) Asymptotic distributions of principal components based on robust dispersions. (English summary) **2005b:62131**
— *see also* **Zuo, Yijun et al., 2005a:62073**
Davydov, Yu. A. (*with* Zitikis, Ricărdas) Convex rearrangements of random elements. (English summary) (*see* **2005g:60006**)
Deheuvels, Paul (*with* Martynov, Gennadiĭ V.) Karhunen-Loève expansions for weighted Wiener processes and Brownian bridges via Bessel functions. (English summary) **2005i:62074**
Diener, Francine (*with* Diener, Marc) Higher-order terms for the de Moivre-Laplace theorem. (English summary) **2005k:41095**
Diener, Marc *see* **Diener, Francine, 2005k:41095**
Dong, Hua (*with* Zhao, Xiang Hua; Yin, Chuan Cun) Ruin problems for a sparse Andersen risk process under large claims. (Chinese. English and Chinese summaries) **2005i:62148**
Dümbgen, L. (*with* Freitag, Sandra; Jongbloed, G.) Consistency of concave regression with an application to current-status data. (English summary) **2005j:62074**
Efromovich, Sam Density estimation for biased data. (English summary) **2005i:62066**
El-Shandidy, Mouhamed A. *see* **Barakat, Haroon M., 2005k:62134** *and* **2005m:60041**
van Es, A. J. (*with* Uh, H.-W.) Asymptotic normality of nonparametric kernel type deconvolution density estimators: crossing the Cauchy boundary. (English summary) **2005e:62071**
Fang, Yixin *see* **Zhao, Lin Cheng, 2005c:62179**
Febrero-Bande, Manuel *see* **Cuevas, Antonio et al.**
Fernholz, Luisa Turrin (*with* Morgenthaler, Stephan; Tukey, John W.) An outlier nomination method based on the multihalver. (English summary) **2005h:62144**
— *see also* **Cabrera, Javier, 2005a:62140**
Figueiredo, Fernanda *see* **Gomes, M. Ivette et al., 2005g:62064**
Fraiman, Ricardo *see* **Cuevas, Antonio et al.**
Freitag, Sandra *see* **Dümbgen, L. et al., 2005j:62074**
Gao, Zhicheng (*with* Wormald, Nicholas C.) Asymptotic normality determined by high moments, and submap counts of random maps. (English summary) **2005m:60044**
Garrido, José *see* **Cai, Jun, 2005d:60022**
Garthwaite, Paul H. (*with* Crawford, John R.) The distribution of the difference between two t-variates. (English summary)
Ghorbel, M. (*with* Huillet, Thierry) Fragment size distributions in random fragmentations with cutoff. (English summary) **2005i:62041**
Giné, Evarist *see* **Chen, Zhiqiang[1], 2005m:62107**
Goldstein, Larry Mark (*with* Rinott, Yosef) A permutation test for matching and its asymptotic distribution. (English summary) **2005e:62067**
Gomes, M. Ivette (*with* Caeiro, Frederico; Figueiredo, Fernanda) Bias reduction of a tail index estimator through an external estimation of the second-order parameter. (English summary) **2005g:62064**
Götze, Friedrich *see* **Chistyakov, G. P., 2005f:60055**
Graf, Siegfried (*with* Luschgy, Harald) Quantization for probability measures with respect to the geometric mean error. (English summary) **2005b:60030**
Grégoire, Gérard *see* **Antoch, Jaromír et al., 2005g:62131**
Gupta, Arjun K. *see* **Nadarajah, Saralees**
Gushchin, Alexander A. (*with* Valkeila, E.) Approximations and limit theorems for likelihood ratio processes in the binary case. (English summary) **2005a:60060**
Hafidi, B. (*with* Mkhadri, A.) Repeated half sampling criterion for model selection. (English summary) **2005g:62116**
Hashorva, Enkelejd Bivariate maximum insurance claim and related point processes. (English summary) **2005h:62286**
He, La Mei The asymptotic joint distribution of exceedances point process and partial sum of stationary normal sequences. (Chinese. English and Chinese summaries) **2005d:60053**
He, Xuming *see* **Zuo, Yijun et al., 2005a:62073**; **Bai, Zhi-Dong, 2005b:62126** *and* **Cui, Heng-jian et al., 2005b:62131**
Holmes, Susan (*with* Reinert, Gesine) Stein's method for the bootstrap. (English summary) **2005k:62111**
Hsing, Tailen (*with* Klüppelberg, Claudia; Kuhn, Gabriel) Dependence estimation and visualization in multivariate extremes with applications to financial data. (English summary)
Hu, Fei Fang (*with* Zhang, Li Xin[1]) Asymptotic normality of urn models for clinical trials with delayed response. (English summary) **2005d:62169**
Huang, Qi A new algorithm for the availability of 2-unit series repairable systems. (Chinese. English and Chinese summaries)
Huillet, Thierry On a deposition process on the circle with disorder. (English summary)
— *see also* **Ghorbel, M., 2005i:62041**
Hürlimann, Werner Integer powers and Benford's law. (English summary) **2005c:62030**
Hušková, Marie Permutation principle and bootstrap in change point analysis. (English summary) (*see* **2005g:60006**)
— (*with* Picek, Jan) Some remarks on permutation type tests in linear models. (English summary) **2005h:62135**
— Weak invariance principles for regression rank statistics. (English summary) **2005d:62087**
Jarušková, Daniela *see* **Antoch, Jaromír et al., 2005g:62131**
Jaworski, Piotr Asymptotics of two-dimensional copulas. (Polish) **2005g:62092**
— On uniform tail expansions of bivariate copulas. (English summary) **2005m:62119**
Jiang, Tao[3] (*with* Xu, Cheng Ming) The asymptotic behavior of the ruin probability within a random horizon. (English summary) **2005a:91070**
Jing, Bing-Yi *see* **Wang, Qi-Hua, 2005k:62072**
Jongbloed, G. *see* **Dümbgen, L. et al., 2005j:62074**
Juri, Alessandro (*with* Wüthrich, Mario V.) Tail dependence from a distributional point of view. (English summary) **2005i:62087**
Kapetanios, George The asymptotic distribution of the cointegration rank estimator under the Akaike information criterion. (English summary) **2005k:62145**
Khan, Mohammad K. *see* **Khan, Rasul A., 2005d:62125**
Khan, Rasul A. (*with* Khan, Mohammad K.) On the use of the SPRT in determining the properties of some CUSUM procedures. (English summary) **2005d:62125**
Kiliç, Rehim Linearity tests and stationarity. (English summary) **2005g:62157**
Klüppelberg, Claudia *see* **Hsing, Tailen et al.**
Koning, Alex J. (*with* Protasov, Vladimir Yu.) Tail behaviour of Gaussian processes with applications to the Brownian pillow. (English summary) **2005a:60053**
Kotz, Samuel *see* **Nadarajah, Saralees**
Kuhn, Gabriel *see* **Hsing, Tailen et al.**
Kundu, Debasis (*with* Manglick, Anubhav) Discriminating between the Weibull and log-normal distributions. (English summary) **2005b:62033**
Kunin, Boris I. Extreme value type distributions with bounded support. (English summary) **2005c:60071**
Lahiri, Soumendra N. A necessary and sufficient condition for asymptotic independence of discrete Fourier transforms under short- and long-range dependence. (English summary) **2005i:62128**
Lai, Yi-Hsuan (*with* Chen, Lin-An; Chan, Wen-Yaw) Generalized and feasible generalized median estimators for the linear regression with AR(1) error model. (English summary) **2005c:62061**
Larocque, Denis (*with* Bussières, Isabelle) Aligned rank test for the bivariate randomized block model. (English summary) (*see* **2005m:62007**)
Li, Ze Hui (*with* Zhu, Jinxia; Chen, Feng) Study of a risk model based on the entrance process. (English summary) **2005m:62193**
Ling, Shiqing (*with* McAleer, Michael) Regresssion quantiles for unstable autoregressive models. (English summary) **2005h:62250**
Linton, Oliver B. *see* **Berry, Steve et al., 2005c:62054**
Lo, Albert Y. (*with* Sazonov, Vyacheslav Vasil'evich) On the consistency of Bayesian procedures. (Russian. Russian summary) **2005h:62023**
Lotov, V. I. (*with* Orlova, N. G.) Asymptotic expansions for the distribution of the number of crossings of a strip by trajectories of a random walk. (Russian. Russian summary) **2005j:60094**
Luschgy, Harald *see* **Graf, Siegfried, 2005b:60030**
Mahdi, Smail Analysis of variability in statistical migration and immigration models. (English summary) **2005h:62291**
Maller, Ross A. (*with* Zhou, Xian) Testing for individual heterogeneity in parametric models for event-history data. (English summary) **2005a:62071**
— *see also* **Szimayer, Alexander, 2005b:62173**
Manglick, Anubhav *see* **Kundu, Debasis, 2005b:62033**
Martynov, Gennadiĭ V. *see* **Deheuvels, Paul, 2005i:62074**
Maruyama, Yosihito (*with* Seo, Takashi) Estimation of moment parameter in elliptical distributions. (English summary) **2005a:62141**
Mason, David M. A uniform functional law of the logarithm for the local empirical process. (English summary) **2005f:60080**
— The Chow and Robbins fixed width confidence interval procedure when the second moment barely does not exist. (English summary) **2005j:62165**
Matsumoto, Chieko *see* **Yanagihara, Hirokazu et al., 2005b:62124**
McAleer, Michael *see* **Ling, Shiqing, 2005h:62250**
McCormick, William P. *see* **Barbe, Ph., 2005c:60070**
Meyer, Mary C. (*with* Woodroofe, Michael) Consistent maximum likelihood estimation of a unimodal density using shape restrictions. (English and French summaries) **2005a:62104**
Mkhadri, A. *see* **Hafidi, B., 2005g:62116**
Morgenthaler, Stephan *see* **Fernholz, Luisa Turrin et al., 2005h:62144**
Moustafa, Hanem M. The efficiency of a nonlinear discriminant function based on unclassified initial samples from a mixture of two Weibull populations. (English summary)
Nadarajah, Saralees (*with* Gupta, Arjun K.) The beta Fréchet distribution. (English summary)
— (*with* Kotz, Samuel) Skewed bivariate distributions generated by marginal replacement with Pearson type VII kernel. (English summary)
Ng, Kai W. *see* **Cui, Heng-jian et al., 2005b:62131**
Nigm, E. M. Asymptotic dependence between random central quasi-ranges and random empirical quantiles. (English summary) **2005f:62080**
Nikolaeva, Oksana A. Limit theorems in hypotheses testing problems for counting processes. (English summary) **2005c:62037**
Orlova, N. G. *see* **Lotov, V. I., 2005j:60094**
Pakes, Ariel *see* **Berry, Steve et al., 2005c:62054**
Papadatos, N. *see* **Akritas, Michael G., 2005a:62163**
Pewsey, Arthur The large-sample joint distribution of key circular statistics. (English summary) **2005f:62096**
Picek, Jan *see* **Hušková, Marie, 2005h:62135**
Protasov, Vladimir Yu. *see* **Koning, Alex J., 2005a:60053**
Račkauskas, Alfredas (*with* Suquet, Charles) Hölder norm test statistics for epidemic change. (English summary) **2005k:62129**
Regoli, Giuliana *see* **Antonelli, Sabrina, 2005m:62042**
Reinert, Gesine *see* **Holmes, Susan, 2005k:62111**
Rinott, Yosef *see* **Goldstein, Larry Mark, 2005e:62067**
Rodrigues, Paulo M. M. (*with* Taylor, A. M. Robert) Asymptotic distributions for regression-based seasonal unit root test statistics in a near-integrated model. (English summary) **2005c:62164**
Rossi, Barbara Testing long-horizon predictive ability with high persistence, and the Meese-Rogoff puzzle. (English summary) **2005m:91160**

Rukhin, Andrew L. Two procedures of meta-analysis in clinical trials and interlaboratory studies. (English summary) **2005a:62072**
Sakiyama, Kenji (*with* Taniguchi, Masanobu) Discriminant analysis for locally stationary processes. (English summary) **2005g:62162**
Sazonov, Vyacheslav Vasil'evich *see* **Lo, Albert Y., 2005h:62023**
Schuhmacher, Dominic Upper bounds for spatial point process approximations. (English summary) **2005i:60095**
Sengupta, Debapriya *see* **Bose, Arup, 2005a:62068**
Seo, Takashi *see* **Maruyama, Yosihito, 2005a:62141**
Spouge, John L. Path reversal, islands, and the gapped alignment of random sequences. (English summary) **2005k:62248**
Subramanian, Sundarraman Survival-rate regression using kernel conditional Kaplan-Meier estimators. (English summary) **2005c:62177**
Sun, Shan (*with* Cordero, Minerva) Smooth quantile estimators under strong mixing: necessary and sufficient conditions on bandwidth for weak convergence. (English summary) **2005k:60080**
Suquet, Charles *see* **Račkauskas, Alfredas, 2005k:62129**
Szabó, Tamás Zoltán *see* **Csörgő, Sándor, 2005b:62046**
Szimayer, Alexander (*with* Maller, Ross A.) Testing for mean reversion in processes of Ornstein-Uhlenbeck type. (English summary) **2005b:62173**
Tang, Qi He The ruin probability of a discrete time risk model under constant interest rate with heavy tails. (English summary) **2005g:62186**
— Asymptotic ruin probabilities of the renewal model with constant interest force and regular variation. (English summary) **2005k:62241**
Taniguchi, Masanobu *see* **Sakiyama, Kenji, 2005g:62162**
Taylor, A. M. Robert *see* **Rodrigues, Paulo M. M., 2005c:62164**
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Uh, H.-W. *see* **van Es, A. J., 2005e:62071**
Valkeila, E. *see* **Gushchin, Alexander A., 2005a:60060**
Vellaisamy, P. Poisson approximation for (k_1, k_2)-events via the Stein-Chen method. (English summary) **2005k:62053**
Wan, Ning Asymptotic expansion of optimal exercise boundary near expiry for an American option when $r = q$. (Chinese. English and Chinese summaries) **2005k:91177**
Wang, Han Xing *see* **Wang, Rong Ming et al., 2005i:62151**
Wang, Jing Long *see* **Zhang, Ri Quan, 2005k:62110**
Wang, Qi-Hua (*with* Jing, Bing-Yi) Estimation by method of moment under two-sample location-scale model with random censorship. (English summary) **2005k:62072**
Wang, Qinghua (*with* Wu, Chengqing; Zhao, Lin Cheng) The asymptotic probability of model selection in the logistic regression model. (English and Chinese summaries) **2005k:62163**
Wang, Rong Ming (*with* Yang, Hailiang; Wang, Han Xing) On the distribution of surplus immediately after ruin under interest force and subexponential claims. (English summary) **2005i:62151**
Wang, Wen Sheng[3] Studentized Hanson-Russo type increment theorem for all distributions in the attraction domain of a stable law. (Chinese. English and Chinese summaries) **2005h:60081**
Woodroofe, Michael *see* **Meyer, Mary C., 2005a:62104**
Wormald, Nicholas C. *see* **Gao, Zhicheng, 2005m:60044**
Wu, Chengqing *see* **Wang, Qinghua et al., 2005k:62163**
Wu, Jian Rong[1] Conditional distribution of the signed conditional log likelihood ratio statistic. (English summary) **2005d:62028**
Wüthrich, Mario V. *see* **Juri, Alessandro, 2005i:62087**
Xu, Cheng Ming *see* **Jiang, Tao**[3]**, 2005a:91070**
Yanagihara, Hirokazu (*with* Matsumoto, Chieko; Tonda, Tetsuji) Asymptotic expansion of the null distribution of the modified normal likelihood ratio criterion for testing $\Sigma = \Sigma_0$ under nonnormality. (English summary) **2005b:62124**
Yang, Hailiang *see* **Wang, Rong Ming et al., 2005i:62151**
Yin, Chuan Cun *see* **Dong, Hua et al., 2005i:62148**
Yin, Xiangrong (*with* Cook, R. Dennis) Asymptotic distribution of test statistic for the covariance dimension reduction methods in regression. (English summary) **2005e:62105**
Yu, Hao Analyzing residual processes of (G)ARCH time series models. (English summary) (*see* **2005g:60006**)
Zhang, Li Xin[1] *see* **Hu, Fei Fang, 2005d:62169**
Zhang, Ri Quan (*with* Wang, Jing Long) Robust estimation in partially linear regression model for dependent data. (English summary) **2005k:62110**
Zhao, Lin Cheng (*with* Fang, Yixin) Random weighting method for censored regression model. (English summary) **2005c:62179**
— *see also* **Wang, Qinghua et al., 2005k:62163**
Zhao, Xiang Hua *see* **Dong, Hua et al., 2005i:62148**
Zhou, Xian *see* **Maller, Ross A., 2005a:62071**
Zhu, Jinxia *see* **Li, Ze Hui et al., 2005m:62193**
Zitikis, Ricărdas *see* **Davydov, Yu. A., (2005g:60006)**
Zuo, Yijun (*with* Cui, Heng-jian; He, Xuming) On the Stahel-Donoho estimator and depth-weighted means of multivariate data. (English summary) **2005a:62073**

62E99 None of the above, but in this section

Items with secondary classifications in 62E99

Aggarwala, Rita (*with* Lamoureux, Michael P.) Folding distributions for order statistics. (English summary) **2005a:62122**
Bergsma, Wicher P. (*with* Rudas, Tamás) Variation independent parameterizations of multivariate categorical distributions. (English summary) (*see* **2005a:62016**)
Ciumara, Roxana The moments and descending factorial moments of compound mixed truncated Poisson distribution. (English summary) **2005f:62019**
Lamoureux, Michael P. *see* **Aggarwala, Rita, 2005a:62122**
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Abu-Dayyeh, Walid A. (*with* Madan, Kailash C.) The admissibility of the LRT for the exponential family model. (English summary) **2005m:62048**
Akahira, Masafumi *see* **Maihara, Hirosuke**
Baklizi, Ayman Preliminary test estimation in the two parameter exponential distribution with time censored data. (English summary)
Balakrishnan, Narayanaswamy (*with* Kim, J.-A.) EM algorithm and optimal censoring schemes for progressively type-II censored bivariate normal data. (English summary) (*see* **2005h:62008**)
Bandyopadhyay, Uttam (*with* Biswas, Atanu) Randomized allocation procedure for testing a normal mean with known variance. (English summary) **2005a:62050**
Bedoya, Elizabeth (*with* Gómez, Armando; Tayal, Vipin) Exact percentage points for testing bipolarity of a multivariate normal model. (English summary) **2005h:62061**
Bee, Marco Testing for redundancy in normal mixture analysis. (English summary)
Bhattacharjee, Sushanta Kumar *see* **Sinha, A. K. et al.**
Biau, Gérard (*with* Devroye, Luc) A note on density model size testing. (English summary) **2005b:62045**
Biswas, Atanu *see* **Bandyopadhyay, Uttam, 2005a:62050**
Bityukov, Sergei I. (*with* Krasnikov, Nikolai V.) The probability of making a correct decision in hypotheses testing as estimator of quality of planned experiments. (English summary) (*see* **2005c:62004**)
Bontemps, Christian (*with* Meddahi, Nour) Testing normality: a GMM approach. (English summary)
Borkar, Vivek S. (*with* Mitter, Sanjoy K.; Venkatesh, Saligrama) Variations on a theme by Neyman and Pearson. (English summary) **2005h:62062**
Bristol, David R. (*with* Stouffer, Nicole) A maximum modulus test with unequal variances. (English summary)
Camdeviren, Handan (*with* Mendes, Mehmet) A simulation study for type III error rates of some variance homogeneity tests. (English summary)
Charif, H. A. *see* **El-Bassiouni, M. Y.**
(Chen, Jia Hua) *see* **Tan, Xianming, 2005j:62042**
Chen, Jie[10] (*with* Sarkar, Sanat Kumar) Multiple testing of response rates with a control: a Bayesian stepwise approach. (English summary) **2005e:62027**
Chernoff, Herman Conservative bounds on extreme P-values for testing the equality of two probabilities based on very large sample sizes. (English summary) (*see* **2005i:62005**)
Choi, In (*with* Saikkonen, Pentti) Testing linearity in cointegrating smooth transition regressions. (English summary)
Claeskens, Gerda Restricted likelihood ratio lack-of-fit tests using mixed spline models. (English summary) **2005g:62037**
Crainiceanu, Ciprian M. (*with* Ruppert, David) Likelihood ratio tests in linear mixed models with one variance component. (English summary) **2005j:62039**
Devroye, Luc *see* **Biau, Gérard, 2005b:62045**
Du, Shi Jun *see* **Zhao, Guo Long, 2005h:62066**
El-Bassiouni, M. Y. (*with* Charif, H. A.) Testing a null variance ratio in mixed models with zero degrees of freedom for error. (English summary)
Finner, Helmut *see* **Sarkar, Sanat Kumar et al., 2005k:62057**
Franses, Philip Hans *see* **Vogelsang, Timothy J.**
Freitag, Gudrun *see* **Skipka, G. et al.**
Gao, Wei[1] *see* **Hu, Guo-rong**
Garren, Steven T. Goodness-of-fit testing of the beta-binomial model. (*see* **2005j:62007**)
Genest, Christian (*with* Verret, François) Locally most powerful rank tests of independence for copula models. (English summary)
Gómez, Armando *see* **Bedoya, Elizabeth et al., 2005h:62061**
Gómez-Villegas, Miguel A. (*with* Sanz, Luís) Unimodal contaminations in testing point null hypothesis. (English and Spanish summaries) **2005i:62045**
— (*with* Main, Paloma; Sanz, Luís; Navarro, Hilario) Asymptotic relationships between posterior probabilities and p-values using the hazard rate. (English summary) **2005a:62051**
Greenstein, Shane *see* **Rysman, Marc**
Guo, Huizhen *see* **Krishnamoorthy, K.**
Gupta, Arjun K. *see* **Ramanayake, Asoka, 2005h:62064** *and* **Nagar, Daya K.**
Herranz Tejedor, I. *see* **Martín Andrés, A.**
Hu, Guo-rong (*with* Gao, Wei[1]) A problem of testing homogeneity against order constraints on risk differences.
Hwang, J. T. Gene *see* **Yang, Ming-Chung et al., 2005h:62065**
Imon, A. H. M. Rahmatullah *see* **Sinha, A. K. et al.**
Ioannidis, C. (*with* Peel, D. A.) Testing for market efficiency in gambling markets when the errors are non-normal and heteroskedastic an application of the wild bootstrap. (English summary)
Johnson, Richard A. *see* **Sim, Songyong, 2005i:62046**
Jupp, Peter E. *see* **Watamori, Yoko, 2005m:62051**
Kang, Seung-Ho (*with* Kim, Su-Jin) A comparison of the three conditional exact tests in two-way contingency tables using the unconditional exact power. (English summary)
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Krishnamoorthy, K. (*with* Guo, Huizhen) Assessing occupational exposure via the one-way random effects model with unbalanced data. (English summary)
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Stouffer, Nicole *see* **Bristol, David R.**
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— ★ Introduction to statistics through resampling methods and R/S-PLUS®.
Greven, Sonja (*with* Bailer, A. John; Kupper, Lawrence L.; Muller, Keith E.; Craft, Jeremy L.) A parametric model for studying organism fitness using step-stress experiments. (English summary)
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Peng, Jie (*with* Siegmund, David O.) The admixture model in linkage analysis. (English summary)
Pereira, Carlos Alberto de Bragança *see* **Lauretto, Marcelo et al., 2005j:62065**
Pericchi, Luis R. *see* **Berger, James O., 2005e:62042**
Posch, Martin (*with* Timmesfeld, Nina; König, Franz; Müller, Hans-Helge) Conditional rejection probabilities of Student's t-test and design adaptations. (English summary) **2005c:62197**
Qian, Guoqi (*with* Huggins, Richard M.; Loesch, Danuta Z.) Application of the Rasch model in categorical pedigree analysis using MCEM. I. Binary data. (English summary)
Rao, Calyampudi Radhakrishna Score test: historical review and recent developments. (English summary) **2005m:62003**
Rayner, J. C. W. *see* **Mather, Katrina J., (2005a:62014)**
Riani, Marco Robust multivariate transformations to normality: constructed variables and likelihood ratio tests. (English summary) **2005e:62089**
Ritz, Christian Goodness-of-fit tests for mixed models. (English summary) **2005c:62124**
Rivas, M. J. (*with* Santos-Martín, M. T.; Morales, Domingo) Rényi test statistics for partially observed diffusion processes. (English summary) **2005g:62141**
Rivest, Louis-Paul *see* **Saïd, Mériem et al., (2005m:62007)**
Robalo Marques, C. *see* **Dias, D. A. et al.**
Rodríguez-Bernal, María Teresa *see* **de la Horra Navarro, J., 2005a:62076**
Roeder, Ingo *see* **Schuster, Ernst et al.**
Rollin, Linda M. (*with* Chen, Pinyuen) A two-stage design for choosing among experimental treatments in clinical trials. (English summary) **2005i:62049**
Rudas, Tamás (*with* Bergsma, Wicher P.) On applications of marginal models for categorical data. (English summary)
Saïd, Mériem (*with* Ghazzali, Nadia; Rivest, Louis-Paul) Score tests for dependent censoring with survival data. (English summary) (*see* **2005m:62007**)
Saleh, A. K. Md. Ehsanes *see* **Tabatabaey, S. M. M. et al., 2005j:62146**
Salibian-Barrera, Matias Estimating the p-values of robust tests for the linear model. (English summary)
Sambuco, Christopher P. *see* **Molefe, Daniel F. et al.**
Sampson, Allan R. *see* **Yothers, Greg, (2005h:62008)**
Sandra, O. *see* **Müller, T. G. et al.**
Sankoh, Abdul J. (*with* Huque, Mohammad F.) Impact of multiple endpoints on type I error rate and power of test statistic in non-superiority clinical trials. (English summary)
Santos-Martín, M. T. *see* **Rivas, M. J. et al., 2005g:62141**
Santos Silva, J. M. C. *see* **Dias, D. A. et al.**
Sarkar, Sanat Kumar FDR-controlling stepwise procedures and their false negatives rates. (English summary)
Schmitz, Norbert *see* **Völker, Dominik, 2005d:62083**
Schoen, E. D. Dispersion-effects detection after screening for location effects in unreplicated two-level experiments. (English summary)
Schuster, Ernst (*with* Kropf, Siegfried; Roeder, Ingo) Micro array based gene expression analysis using parametric multivariate tests per gene—a generalized application of multiple procedures with data-driven order of hypotheses. (English summary)
Sen, Pranab Kumar[1] *see* **Silvapulle, Mervyn J., 2005k:62004**
Sethuraman, Jayaram Are super-efficient estimators super-powerful? (English summary)
Shaffer, Juliet Popper Optimality results in multiple hypothesis testing. (English summary) **2005m:62004**
Shi, Ning-Zhong *see* **Wang, De Hui et al., 2005k:62218**
Shi, Yi Min *see* **Xu, Yong[3], 2005h:62031** *and* **Wei, Ling, 2005i:62025**
Shieh, Gwowen On power and sample size calculations for Wald tests in generalized linear models. (English summary)
Shih, Weichung J. *see* **Lin, Yong[2], 2005b:62219**
Shoukri, M. M. (*with* Asyali, M. H.) Statistical inference on mixture of two binomial distributions with applications in genetic linkage. (English summary)
Shukur, Ghazi *see* **Holgersson, H. E. T.**
Siegmund, David O. (*with* Yakir, Benjamin) Significance level in interval mapping. (English summary) **2005a:62239**
— *see also* **Peng, Jie**
Silvapulle, Mervyn J. (*with* Sen, Pranab Kumar[1]) ★ Constrained statistical inference. **2005k:62004**
Song, Li Xin[1] *see* **Wang, De Hui et al., 2005k:62218**
Stern, Julio Michael *see* **Lauretto, Marcelo et al., 2005j:62065**
Strassburger, Klaus (*with* Bretz, Frank; Hochberg, Yosef) Compatible confidence intervals for intersection union tests involving two hypotheses. (English summary) (*see* **2005i:62006**)
Suárez-Falcón, Juan C. (*with* Glas, Cees A. W.) Evaluation of global testing procedures for item fit to the Rasch model. (English summary)
Suslina, I. A. *see* **Ingster, Yu. I., 2005k:62003**
Swameye, I. *see* **Müller, T. G. et al.**
Swartz, Tim B. *see* **Insley, Robin et al.**
Tabatabaey, S. M. M. (*with* Saleh, A. K. Md. Ehsanes; Kibria, B. M. Golam) Estimation strategies for parameters of the linear regression models with spherically symmetric distributions. (English summary) **2005j:62146**
Taskinen, S. *see* **Kankainen, A. et al., 2005d:62097**
Thayer, Dorothy T. *see* **Lewis, Charles**
Timmer, Jens *see* **Müller, T. G. et al.**
Timmesfeld, Nina *see* **Posch, Martin et al., 2005c:62197**
Tinsley, Frederick C. *see* **Janke, Steven J.**
Tollenaar, Nikolaj (*with* Mooijaart, Ab) Type I errors and power of the parametric bootstrap goodness-of-fit test: full and limited information. (English summary)
Torres Ruiz, F. *see* **Moreno Bas, Elías et al., 2005k:62169**
Troendle, James F. *see* **Liu, Aiyi et al.**
Tsuda, Yoshiyuki Bioequivalence problems and testing statistical hypotheses. (Japanese. Japanese summary) **2005e:62153**
Tunaru, Radu *see* **Vladimirescu, Ion, 2005d:62036**
Urga, Giovanni *see* **Barone Adesi, Giovanni et al.**
Vermunt, Jeroen K. *see* **Galindo-Garre, Francisca**
Vladimirescu, Ion (*with* Tunaru, Radu) Estimation functions by confidence regions for inverse Gaussian distribution. (English summary) **2005d:62036**
Völker, Dominik (*with* Schmitz, Norbert) Nonparametric optimality properties of optimal parametric tests. (English summary) **2005d:62083**
Wang, De Hui (*with* Song, Li Xin[1]; Shi, Ning-Zhong) Estimation and testing for the parameters of AR(p)-ARCH(q) under ordered restriction. **2005k:62218**
Wang, Hsiuying Improved estimation of accuracy in simple hypothesis versus simple alternative testing. (English summary) **2005e:62013**
Wang, Jinde *see* **Liu, Xin Sheng[2], 2005f:62034**
Watnik, Mitchell R. (*with* Johnson, Wesley O.) The behaviour of linear model selection tests under globally non-nested hypotheses. (English summary) **2005g:62122**
Wei, Bo Cheng *see* **Lin, Jin Guan, 2005m:62132**
Wei, Li Li (*with* Zhang, Wen Xiu) A Bayesian approach to multiple fuzzy hypothesis testing. (Chinese. English and Chinese summaries) **2005j:62018**
Wei, Ling (*with* Shi, Yi Min) Asymptotically optimal empirical Bayes test for the parameter of two-sided truncated distribution family under LINEX loss function. (Chinese. English and Chinese summaries) **2005i:62025**
Wilcox, Rand R. (*with* Keselman, H. J.) Repeated measures one-way ANOVA based on a modified one-step M-estimator. (English summary)
Xiao, Hao (*with* Liu, Ci Hua; Dong, Rui; Huang, Li Kun) Test of outliers by Bayesian method. (Chinese. English and Chinese summaries) **2005h:62094**
Xie, Tian Fa (*with* Zhang, Zhong Zhan) Test and estimation improvement for parameters in a clinical trial model. (Chinese. English and Chinese summaries) **2005j:62206**
Xu, Yong[3] (*with* Shi, Yi Min) Empirical Bayes test for truncation parameters using linex loss. (English summary) **2005h:62031**
Yakir, Benjamin *see* **Siegmund, David O., 2005a:62239**
Yothers, Greg (*with* Sampson, Allan R.) Inference guided data exploration. (English summary) (*see* **2005h:62008**)
Yu, Kai F. *see* **Liu, Aiyi et al.**
Yuan, Vivian W. *see* **Liu, Aiyi et al.**
Zacks, Shelemyahu *see* **Lauretto, Marcelo et al., 2005j:62065**
Žele, Mina *see* **Juričić, Đani**
Zeng, Lin Rui (*with* Zhu, Zhong Yi; Mao, Shi Song) Influence analysis and outlier tests for a semiparametric generalized linear model. (Chinese. English and Chinese summaries) **2005h:62190**
Zhang, Qiang[6] (*with* Ogaki, Masao) Decreasing relative risk aversion, risk sharing, and the permanent income hypothesis. (English summary)
Zhang, Wen Xiu *see* **Wei, Li Li, 2005j:62018**
Zhang, Zhong Zhan *see* **Xie, Tian Fa, 2005j:62206**
Zhu, Zhong Yi *see* **Zeng, Lin Rui et al., 2005h:62190**
Zimmerman, Donald W. A note on preliminary tests of equality of variances. (English summary)

Items listed otherwise than by author

Lecture Notes in Statistics *see* **Ingster, Yu. I., 2005k:62003**

62F05 Asymptotic properties of tests

Asyali, M. H. *see* **Shoukri, M. M.**
Chen, Jia Hua (*with* Kalbfleisch, John D.) Modified likelihood ratio test in finite mixture models with a structural parameter. (English summary)
Csörgő, Sándor Weighted correlation tests for location-scale families. (English summary) **2005h:62067**
— (*with* Szabó, Tamás Zoltán) Weighted correlation tests for gamma and lognormal families. (English summary) **2005b:62046**
Dias, D. A. (*with* Robalo Marques, C.; Neves, P. D.; Santos Silva, J. M. C.) On the Fisher-Konieczny index of price changes synchronization. (English summary)
Fulman, Jason Stein's method and non-reversible Markov chains. (English summary) **2005k:62058**
Hong, Yongmiao (*with* Kao, Chihwa) Wavelet-based testing for serial correlation of unknown form in panel models. (English summary) **2005i:62047**
Inglot, Tadeusz (*with* Ledwina, Teresa) On consistent minimax distinguishability and intermediate efficiency of Cramér-von Mises test. (English summary) **2005k:62059**

Kalbfleisch, John D. *see* **Chen, Jia Hua**
Kao, Chihwa *see* **Hong, Yongmiao, 2005i:62047**
Ledwina, Teresa *see* **Inglot, Tadeusz, 2005k:62059**
Li, Ping Likelihood ratio test for a class of mixture model. (Chinese. English and Chinese summaries) **2005g:62039**
Liu, Xin[7] (*with* Shao, Yongzhao) Asymptotics for the likelihood ratio test in a two-component normal mixture model. (English summary) **2005c:62036**
Liu, Xin Sheng[2] (*with* Wang, Jinde) Testing the equality of multinomial populations ordered by increasing convexity under the alternative. (English and French summaries) **2005f:62034**
Neves, P. D. *see* **Dias, D. A. et al.**
Nikolaeva, Oksana A. Limit theorems in hypotheses testing problems for counting processes. (English summary) **2005c:62037**
Pardo Llorente, Julio Ángel *see* **Pérez Pérez, Maria Teresa, (2005i:62007)**
Pérez Pérez, Maria Teresa (*with* Pardo Llorente, Julio Ángel) K_φ divergence statistics in multinomial populations. (*see* **2005i:62007**)
Robalo Marques, C. *see* **Dias, D. A. et al.**
Santos Silva, J. M. C. *see* **Dias, D. A. et al.**
Shao, Yongzhao *see* **Liu, Xin[7], 2005c:62036**
Shoukri, M. M. (*with* Asyali, M. H.) Statistical inference on mixture of two binomial distributions with applications in genetic linkage. (English summary)
Szabó, Tamás Zoltán *see* **Csörgő, Sándor, 2005b:62046**
Tamaki, Kenichiro Second order asymptotic properties of a class of test statistics under the existence of nuisance parameters. (English summary) **2005g:62040**
Wang, Jinde *see* **Liu, Xin Sheng[2], 2005f:62034**

Items with secondary classifications in 62F05

Akritas, Michael G. (*with* Papadatos, N.) Heteroscedastic one-way ANOVA and lack-of-fit tests. (English summary) **2005a:62163**
Bakinowska, Ewa (*with* Kala, Radosław) Likelihood and quasi-likelihood estimation of transition probabilities. (English summary)
Balakrishnan, Narayanaswamy (*with* Kim, J.-A.) EM algorithm and optimal censoring schemes for progressively type-II censored bivariate normal data. (English summary) (*see* **2005h:62008**)
Bathke, Arne The ANOVA F test can still be used in some balanced designs with unequal variances and nonnormal data. (English summary) **2005c:62121**
Bee, Marco Testing for redundancy in normal mixture analysis. (English summary)
Bustamante, Carlos *see* **Gore, Jeff et al., 2005g:82106**
Cantoni, Eva A robust approach to longitudinal data analysis. (English and French summaries) **2005d:62043**
(Chen, Jia Hua) *see* **Tan, Xianming, 2005j:62042**
Du, Shi Jun *see* **Zhao, Guo Long, 2005h:62066**
Gao, Wei[1] *see* **Hu, Guo-rong**
Gómez-Villegas, Miguel A. (*with* Maín, Paloma; Sanz, Luís; Navarro, Hilario) Asymptotic relationships between posterior probabilities and p-values using the hazard rate. (English summary) **2005a:62051**
Gore, Jeff (*with* Ritort, Felix; Bustamante, Carlos) Bias and error in estimates of equilibrium free-energy differences from nonequilibrium measurements. (English summary) **2005g:82106**
Gupta, Arjun K. *see* **Ramanayake, Asoka, 2005h:62064**
Györfi, László Large deviations of Hellinger distance on partitions. (English summary) **2005i:60043**
He, Xuming (*with* Zhu, Li-Xing) A lack-of-fit test for quantile regression. (English summary) **2005d:62075**
Hu, Guo-rong (*with* Gao, Wei[1]) A problem of testing homogeneity against order constraints on risk differences.
Ingster, Yu. I. (*with* Suslina, I. A.) ★ Nonparametric goodness-of-fit testing under Gaussian models. **2005k:62003**
Johnson, Wesley O. *see* **Watnik, Mitchell R., 2005g:62122**
Juhl, Ted A Lagrange multiplier stationarity test using covariates. (English summary) **2005h:62247**
Kala, Radosław *see* **Bakinowska, Ewa**
Keef, Stephen P. (*with* Roberts, Leigh A.) The meta-analysis of partial effect sizes. (English summary)
Kim, J.-A. *see* **Balakrishnan, Narayanaswamy, (2005h:62008)**
Lo, Yungtai Likelihood ratio tests of the number of components in a normal mixture with unequal variances. (English summary)
Maín, Paloma *see* **Gómez-Villegas, Miguel A. et al., 2005a:62051**
Maller, Ross A. (*with* Zhou, Xian) Testing for individual heterogeneity in parametric models for event-history data. (English summary) **2005a:62071**
Mather, Katrina J. (*with* Rayner, J. C. W.) Testing equality of corresponding variances from multiple covariance matrices. (English summary) (*see* **2005a:62014**)
Meintanis, Simos G. (*with* Ushakov, N. G.) Binned goodness-of-fit tests based on the empirical characteristic function. (English summary) **2005m:62050**
Morales, Domingo (*with* Pardo, Leandro; Pardo, María del Carmen; Vajda, Igor) Rényi statistics for testing composite hypotheses in general exponential models. (English summary) **2005d:62027**
Nanda, Asok K. (*with* Paul, Prasanta) Tests for reversed hazard rate function. (English summary)
Navarro, Hilario *see* **Gómez-Villegas, Miguel A. et al., 2005a:62051**
Papadatos, N. *see* **Akritas, Michael G., 2005a:62163**
Pardo, Leandro *see* **Morales, Domingo et al., 2005d:62027**
Pardo, María del Carmen *see* **Morales, Domingo et al., 2005d:62027**
Paul, Prasanta *see* **Nanda, Asok K.**
Ramanayake, Asoka (*with* Gupta, Arjun K.) Epidemic change model for the exponential family. (English summary) **2005h:62064**
Rao, Calyampudi Radhakrishna Score test: historical review and recent developments. (English summary) **2005m:62003**
Rayner, J. C. W. *see* **Mather, Katrina J., (2005a:62014)**
Ritort, Felix *see* **Gore, Jeff et al., 2005g:82106**
Ritz, Christian Goodness-of-fit tests for mixed models. (English summary) **2005c:62124**
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Sanz, Luís *see* **Gómez-Villegas, Miguel A. et al., 2005a:62051**
Simushkin, S. V. *see* **Volodin, I. N., 2005c:62035**
Suslina, I. A. *see* **Ingster, Yu. I., 2005k:62003**
Tan, Xianming (*with* Zhang, Run-Chu) Comment on: "Generalized likelihood-ratio test of the number of components in finite mixture models" [Canad. J. Statist. **22** (1994), no. 3, 387–399; MR1309322 (95h:62022)] by J. H. Chen. **2005j:62042**
Ushakov, N. G. *see* **Meintanis, Simos G., 2005m:62050**
Vajda, Igor *see* **Morales, Domingo et al., 2005d:62027**
Víšek, Jan Ámos Durbin-Watson statistic in robust regression. (English summary) **2005h:62189**
Volodin, I. N. (*with* Simushkin, S. V.) D-posterior concept of p-value. (English summary) **2005c:62035**
Watnik, Mitchell R. (*with* Johnson, Wesley O.) The behaviour of linear model selection tests under globally non-nested hypotheses. (English summary) **2005g:62122**
Zhang, Run-Chu *see* **Tan, Xianming, 2005j:62042**
Zhao, Guo Long (*with* Du, Shi Jun) A summary chi-square test of the non-null hypothesis. (Chinese. English and Chinese summaries) **2005h:62066**
Zhou, Xian *see* **Maller, Ross A., 2005a:62071**
Zhu, Li-Xing *see* **He, Xuming, 2005d:62075**

Items listed otherwise than by author

Lecture Notes in Statistics *see* **Ingster, Yu. I., 2005k:62003**

62F07 Ranking and selection

Bansal, Naveen K. (*with* Miescke, Klaus J.) Simultaneous selection and estimation of the best treatment with respect to a control in a general linear model. (English summary) **2005m:62052**
— *see also* **Misra, Neeraj et al., 2005f:62035**
Bao, Hong *see* **Ju, Hong Mei**
Chen, Pinyuen (*with* Rollin, Linda M.) A two-stage selection and testing design for comparing several normal means with a standard. (English summary) **2005b:62047**
— *see also* **Rollin, Linda M., 2005i:62049**
Chen, Tuhao J. (*with* Hoppe, Fred M.) A connection between successive comparisons and ranking procedures. (English summary) **2005b:62048**
Dhariyal, Ishwari D. *see* **Misra, Neeraj, 2005m:62053**
Gupta, Shanti S. (*with* Li, Jianjun) On empirical Bayes procedures for selecting good populations in a positive exponential family. (English summary) **2005k:62060**
Hamedani, G. G. *see* **Misra, Neeraj et al., 2005f:62035**
Hoppe, Fred M. *see* **Chen, Tuhao J., 2005b:62048**
Hsu, Lifang (*with* Panchapakesan, S.) A restricted subset selection rule for selecting at least one of the t best normal populations in terms of their means: common known variance case. (English summary) (*see* **2005h:62008**)
Huang, Deng-Yuan (*with* Lee, Ren-Fen) On some ranking and selection procedures for MANOVA models with applications. (English summary) (*see* **2005h:62008**)
Huang, Wên T'ao (*with* Lai, Yao-Tsung) Selecting the best population with two controls: an empirical Bayes approach. (English summary) **2005i:62048**
Hunter, David R. MM algorithms for generalized Bradley-Terry models. (English summary) **2005b:62049**
Ju, Hong Mei (*with* Bao, Hong) Ranking fuzzy numbers by using expected values. (Chinese. English and Chinese summaries)
Kamiya, Hidehiko (*with* Takemura, Akimichi) Characterization of rankings generated by linear discriminant analysis. (English summary) **2005k:62061**
Lai, Yao-Tsung *see* **Huang, Wên T'ao, 2005i:62048**
Lee, Ren-Fen *see* **Huang, Deng-Yuan, (2005h:62008)**
Li, Jianjun *see* **Gupta, Shanti S., 2005k:62060**
Lin, Zheng Yan Selection for the best logistic population. (Chinese. English and Chinese summaries) **2005b:62050**
Lu, Yue Jin *see* **Zhan, Ji Zhou**
Miescke, Klaus J. *see* **Bansal, Naveen K., 2005m:62052**
Misra, Neeraj (*with* Bansal, Naveen K.; Hamedani, G. G.) On estimating the largest scale parameter. (English summary) **2005f:62035**
— (*with* Dhariyal, Ishwari D.) Simultaneous selection of extreme populations: optimal two-stage decision rules. (English summary) **2005m:62053**
Pan, Guohua (*with* Santner, Thomas J.) Theory of screening procedures to identify robust product designs using fractional factorial experiments. (English summary)
Panchapakesan, S. *see* **Hsu, Lifang, (2005h:62008)**
Raghavachari, M. Measures of concordance for assessing agreement in ratings and rank order data. (English summary) **2005k:62062**
Rollin, Linda M. (*with* Chen, Pinyuen) A two-stage design for choosing among experimental treatments in clinical trials. (English summary) **2005i:62049**
— *see also* **Chen, Pinyuen, 2005b:62047**
Santner, Thomas J. *see* **Pan, Guohua**
Takemura, Akimichi *see* **Kamiya, Hidehiko, 2005k:62061**
van de Wiel, Mark A. The null distribution of Kendall's rank correlation statistic in the presence of ties. (English summary)
Zhan, Ji Zhou (*with* Lu, Yue Jin) Least squares method for sequencing judgment matrix of interval numbers. (Chinese. English and Chinese summaries)

Items with secondary classifications in 62F07

(Balakrishnan, Narayanaswamy) *see* **Advances in ranking and selection, multiple comparisons, and reliability, 2005h:62008**
Deshpande, Jayant V. *see* **Ozturk, Omer, 2005m:62099**
Drissi-Bakhkhat, Mohamed (*with* Truchon, Michel) Maximum likelihood approach to vote aggregation with variable probabilities. (English summary) **2005c:91038**
Fan, Jianqing (*with* Yim, Tsz Ho) A crossvalidation method for estimating conditional densities. (English summary) **2005j:62083**

(Kannan, Nandini) *see* **Advances in ranking and selection, multiple comparisons, and reliability, 2005h:62008**
Li, Zhaohai (*with* Xie, Min Yu) Statistics in genetics. (*see* **2005c:62003**)
Modarres, Reza (*with* Zheng, Gang[1]) Maximum likelihood estimation of dependence parameter using ranked set sampling. (English summary) **2005j:62055**
(Nagaraja, H. N.) *see* **Advances in ranking and selection, multiple comparisons, and reliability, 2005h:62008**
Ólafsson, Sigurdur Two-stage nested partitions method for stochastic optimization. (English summary) **2005a:90115**
Ozturk, Omer (*with* Deshpande, Jayant V.) A new nonparametric test using ranked set data for a two-sample scale problem. (English summary) **2005m:62099**
Redmond, Charles A natural generalization of the win-loss rating system.
Truchon, Michel *see* **Drissi-Bakhkhat, Mohamed, 2005c:91038**
Xie, Min Yu *see* **Li, Zhaohai, (2005c:62003)**
Yim, Tsz Ho *see* **Fan, Jianqing, 2005j:62083**
Zheng, Gang[1] Some remarks on the Fisher information in ranked set samples. (English summary) **2005a:62037**
— *see also* **Modarres, Reza, 2005j:62055**

Items listed otherwise than by author

Advances in ranking and selection, multiple comparisons, and reliability ★ Advances in ranking and selection, multiple comparisons, and reliability. **2005h:62008**

62F10 Point estimation

Abd-El-Hakim, Nagi S. (*with* Sultan, Khalaf Salman) Maximum likelihood estimation from record-breaking data for the generalized Pareto distribution. (English summary) **2005m:62054**
Abebe, Asheber *see* **Sievers, Gerald L.**
Abusev, R. A. Some statistical problems of the group classification of gamma families. **2005e:62031**
— On statistical estimations for the Pareto distribution. (English summary)
Adatia, A. (*with* Saleh, A. K. Md. Ehsanes) Estimation of quantiles of uniform distribution using generalized ranked-set sampling. (English summary)
Ahn, Hongshik *see* **Joo, Jungnam et al.**
Aït-Sidi-Allal, M. L. (*with* Baccini, A.; Mondot, A. M.) A new algorithm for estimating the parameters and their asymptotic covariance in correlation and association models. (English summary) **2005b:62051**
Akdeniz, Fikri *see* **Sakallioğlu, Sadullah, 2005a:62062**
Ali, M. Masoom (*with* Woo, Jungsoo) Approximate estimation of the shape parameter in a gamma distribution. (English summary)
Allen, O. Brian *see* **Kane, Mark et al.**
Al-Saidy, Obaid (*with* Samawi, Hani M.; Al-Saleh, Mohammad F.) Inference on overlap coefficients under the Weibull distribution: equal shape parameter. (English summary)
Al-Saleh, Mohammad F. *see* **Al-Saidy, Obaid et al.**
Amemiya, Yasuo *see* **Eickhoff, Jens C. et al., 2005a:62056**
Anis, M. Z. On a biased estimator of the normal population mean. (English summary)
de Aquino, Luiz Henrique *see* **Mendonça, Lúcia Aparecida et al.**
Baccini, A. *see* **Aït-Sidi-Allal, M. L. et al., 2005b:62051**
Bakinowska, Ewa (*with* Kala, Radosław) Likelihood and quasi-likelihood estimation of transition probabilities. (English summary)
Balakrishnan, Narayanaswamy (*with* Lin, Chien-Tai; Chan, Ping Shing) Exact inference and prediction for K-sample two-parameter exponential case under general type-II censoring. (English summary)
— *see also* **Chandrasekar, B. et al., 2005h:62069**
Baragona, Roberto *see* **Vitrano, Salvatore, (2005f:62007)**
Barbato, G. *see* **Vicario, G. et al.**
Bates, Douglas M. (*with* DebRoy, Saikat) Linear mixed models and penalized least squares. (English summary)
Bearzoti, Eduardo *see* **Mendonça, Lúcia Aparecida et al.**
Belili, Nacereddine (*with* Heinich, Henri) Estimation du mélange de probabilités. (English and French summaries) [Estimation of probability mixture] **2005h:62068**
Bell, Bradley M. (*with* Pillonetto, Gianluigi) Estimating parameters and stochastic functions of one variable using nonlinear measurement models. (English summary) **2005b:62052**
Bening, V. E. (*with* Korolev, V. Yu.; Kolokol'tsov, V. N.; Saenko, V. V.; Uchaikin, V. V.; Zolotarev, V. M.) Estimation of parameters of fractional stable distributions. **2005j:62043**
— *see also* **Wu, Da, 2005a:62066**
Best, D. J. (*with* Rayner, J. C. W.) Chisquared components as tests of fit for discrete distributions. (English summary) (*see* **2005a:62014**)
Bhatnagar, Sharad *see* **Srivastava, Virendra K.**
Bhattacharya, Debopam Seemingly unrelated regressions with identical regressors: a note. (English summary)
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Candolo, Cecilia A simulation study incorporating uncertainty in the selection of models in linear regression. (Portuguese. English and Portuguese summaries)
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Liu, Hai Sheng[1] Relative efficiency of parameter estimates in linear models. (Chinese. English and Chinese summaries)
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Mukhopadhyay, Parimal Information contained in an estimating function: a review. (English summary)
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Pillonetto, Gianluigi *see* **Bell, Bradley M., 2005b:62052**
Podder, Chandan Kumer (*with* Roy, Manindra Kumar; Bhuiyan, K. J.; Karim, Amranul) Minimax estimation of the parameter of the Pareto distribution under quadratic and MLINEX loss functions. (English summary) **2005b:62056**
Polzehl, Jörg (*with* Zwanzig, Silvelyn) On a symmetrized simulation extrapolation estimator in linear errors-in-variables models. (English summary)
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Rezaei, M. (*with* Kazemnejad, A.; Mahmoodi, M.; Meshkani, Mohammad R.) Estimation of exponential finite mixture distribution parameters in survival analysis. (English summary)
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Rogers, Andrei (*with* Castro, Luis J.; Lea, Megan) Model migration schedules: three alternative linear parameter estimation methods. (English summary)
Ronchetti, Elvezio *see* **Heritier, Stéphane** *and* **Huber, Philippe et al.**
Rossi, Fabrice (*with* Conan-Guez, Brieuc) Estimation consistante des paramètres d'un modèle non linéaire pour des données fonctionnelles discrétisées aléatoirement. (English and French summaries) [Consistent estimation of parameters in a nonlinear model for functional data with randomly chosen evaluation points] **2005h:62081**
Roy, Manindra Kumar *see* **Podder, Chandan Kumer et al., 2005b:62056**
Ryu, Hang Keun Rectangular regression for an errors-in-variables model. (English summary) **2005i:62052**
Ryul, Segi (*with* Lee, Changsoo) Parametric estimators in a Pareto distribution with an unidentified exponential outlier. (English summary)
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Samaniego, Francisco J. *see* **Vestrup, Eric M., 2005g:62044**
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Saxena, Sharad (*with* Singh, Housila Prasad) Estimating various measures in normal population through a single class of estimators. (English summary)
Sethuraman, Jayaram Are super-efficient estimators super-powerful? (English summary)
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Shao, Quanxi Notes on maximum likelihood estimation for the three-parameter Burr XII distribution. (English summary) **2005a:62064**
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Shi, Yi Min *see* **Liu, Huan Xiang et al.**
Shi, Zheng Hua (*with* Yuan, Yong Sheng) Parameter estimation of an errors-in-variables model. (Chinese. English and Chinese summaries)

Shin, Dong Wan (*with* Lee, Oesook) *M*-estimation for regressions with integrated regressors and ARMA errors. (English summary) **2005d:62035**
Shirke, D. T. Shrinkage estimators for the scale parameter. (English summary)
Sievers, Gerald L. (*with* Abebe, Asheber) Rank estimation of regression coefficients using iterated reweighted least squares. (English summary)
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Sinha, Bimal K. *see* **Lertprapai, Satinee et al., 2005i:62051**
Solev, V. N. (*with* Haghighi, F.) An estimate for the parameter in a model with an infinite-dimensional nuisance parameter. (Russian. English and Russian summaries) **2005j:62058**
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Srivastava, Arun Kumar[2] *see* **Pandey, B. N. et al.**
Srivastava, Virendra K. (*with* Bhatnagar, Sharad) Estimation of the coefficient of variation in normal population. (English summary)
Stamey, James D. (*with* Young, Dean Max; Cecchini, Martita) A double-sampling approach for maximum likelihood estimation for a Poisson rate parameter with visibility-biased data. (English and Italian summaries)
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Stinis, Panagiotis A maximum likelihood algorithm for the estimation and renormalization of exponential densities. (English summary)
Su, Yan Ling (*with* Zou, Jie) Identification of the free parameter of iterated function systems. (Chinese. English and Chinese summaries)
Sultan, Khalaf Salman *see* **Abd-El-Hakim, Nagi S., 2005m:62054**
Sun, Jin Cai (*with* Zhu, Wei Jie; Sun, Yi Yuan; Liu, Li) Method of least squares of parameter estimation for sinusoidal signals. (Chinese. English and Chinese summaries)
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Sun, Yi Yuan *see* **Sun, Jin Cai et al.**
Taheri, S. M. *see* **Mohammadi, J.**
Tamer, Elie *see* **Chen, Xiaohong[1] et al., 2005j:62048**
Thomas, Hoben *see* **Elmore, Ryan T. et al.**
Tian, Lu[2] (*with* Liu, Jun S.; Zhao, Yihua; Wei, Lee-Jen) Statistical inference based on non-smooth estimating functions. (English summary)
Tian, Yu Bin (*with* Li, Guo Ying[1]; Zhang, Ying) Inference for the scale parameter of logistic response distribution with moderate or small sample sizes. (Chinese. English and Chinese summaries) **2005e:62036**
Tiensuwan, Montip *see* **Lertprapai, Satinee et al., 2005i:62051**
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Tsai, Wen-Chi (*with* Dasgupta, Anirban[1]) On the strong consistency, weak limits and practical performance of the ML estimate and Bayesian estimates of a symmetric domain in R^k. (English summary) **2005j:62059**
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Vicario, G. (*with* Barbato, G.; Brondino, G.) An application of the asymptotic theory to a threshold model for the estimate of Martens hardness. (English and Italian summaries)
Victoria-Feser, Maria-Pia *see* **Huber, Philippe et al.**
Vishwakarma, Gayatri *see* **Sharma, H. L.**
Vitale, Cosimo *see* **Giordano, Francesco, 2005e:62033**
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Wang, Dabuxilatu A note on consistency and unbiasedness of point estimation with fuzzy data. (English summary) **2005k:62071**
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Wang, Lih-Chung *see* **Chen, Chih-Rung, 2005j:62046**
Wang, Molin (*with* Williamson, John M.[2]; Redline, Susan) A semiparametric method for analyzing matched case-control family studies with a continuous outcome and proband sampling. (English summary)
Wang, Naisyin *see* **Liang, Hua, 2005m:62056**
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Wang, Yong Xin[2] Ratio of estimators for spectral decomposition eigenvalues of a panel model. (Chinese. English and Chinese summaries)
Wang, You-Gan Estimation of growth parameters from multiple-recapture data. (English summary)
— (*with* Carey, Vincent J.) Unbiased estimating equations from working correlation models for irregularly timed repeated measures. (English summary)
Wang, Yu Jie[1] (*with* Zhang, Da Ke) Correction of classical parameter estimation model for the Cobb-Douglas production function. (Chinese. English and Chinese summaries) **2005j:62060**
Wang, Zhi Zhong[2] (*with* Hu, Xue Mei) General admissibility for linear estimators of multivariate regression coefficients with respect to a restricted parameter set. (English and Chinese summaries)
Wang, Zhong Qiang (*with* Wang, De Hui; Song, Li Xin[1]) Estimation of scale parameter of the normal distribution under a symmetric loss function. (Chinese. English and Chinese summaries) **2005g:62045**
Watanabe, Michiko *see* **Yamaguchi, Kazunori[2], (2005f:62005)**
Wei, Bo Cheng *see* **Sun, Rui-Bo, 2005e:62035**
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Wencheko, E. (*with* Wijekoon, P.) Improved estimation of the mean in one-parameter exponential families with known coefficient of variation. (English summary)
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Woo, Jungsoo *see* **Ali, M. Masoom**
Wu, Chin-Chuan *see* **Huang, Wên T'ao, 2005h:62076**
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Wu, Jong-Wuu (*with* Hung, Wen-Liang; Tsai, Chih-Hui) Estimation of parameters of the Gompertz distribution using the least squares method. (English summary)
— (*with* Yu, Huei-Yi) Statistical inference about the shape parameter of the Burr type XII distribution under the failure-censored sampling plan. (English summary)
— *see also* **Hung, Wen-Liang, 2005b:62053**
Wu, Mi-xia (*with* Wang, Song Gui) Simultaneous optimal estimates of fixed effects and variance components in the mixed model. (English summary) **2005m:62058**
Wu, Xizhi *see* **Jajo, Nethal K. et al., (2005a:62014)**
Xia, You Sheng (*with* Leung, Henry; Xie, Nan[2]; Bossé, Eloi) A new regression estimator with neural network realization. (English summary) **2005h:62082**
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Xu, Xiaoling (*with* Fei, He Liang) Parameter estimation of the Weibull distribution tampered failure rate model under a normal stress. (English and Chinese summaries) **2005i:62053**
Yamaguchi, Kazunori[2] (*with* Watanabe, Michiko) Statistical models and the EM algorithm. (*see* **2005f:62005**)
Yamato, Hajime (*with* Nomachi, Toshifumi; Toda, Koichiro) Edgeworth expansions of some statistics including the LB-statistic and V-statistic. (English summary) **2005a:62067**
— (*with* Toda, Koichiro; Nomachi, Toshifumi; Maesono, Yoshihiko) An Edgeworth expansion of a convex combination of U-statistics based on Studentization. (English summary)
— (*with* Kondo, Masao; Toda, Koichiro) Asymptotic properties of linear combinations of U-statistics with degenerate kernels. (English summary) **2005k:62073**
Yanagimoto, Takemi *see* **Fujii, Yoshinori, 2005g:62042**
Yang, Bo[5] (*with* Kolassa, John E.) A refinement to approximate conditional inference. (English summary)
Yang, Miin-Shen (*with* Yu, Nan-Yi) Estimation of parameters in latent class models using fuzzy clustering algorithms. (English summary)
Yang, Ying[1] Asymptotics of *M*-estimation in non-linear regression. (English summary) **2005h:62083**
Yang, Zhi Zhong (*with* Liu, Rui Yuan) Improved methods for parameter estimation of the 3-parameter Weibull distribution. (Chinese. English and Chinese summaries) **2005d:62037**
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Yu, Nan-Yi *see* **Yang, Miin-Shen**
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Zidek, James V. *see* **Ghosh, Malay et al., 2005a:62058**
Zimmerman, Donald W. A note on preliminary tests of equality of variances. (English summary)
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Items listed otherwise than by author

Errata:

"On estimation of parameters of bilognormal distribution" Errata: "On estimation of parameters of bilognormal distribution" [J. Indian Statist. Assoc. **40** (2002), no. 1, 59–70; MR1973388] by S. P. Nabar and S. C. Deshmukh.

Items with secondary classifications in 62F10

Abbott, Geoffrey D. *see* **Whyte, Jason M. et al., (2005a:62014)**
Abdalla, Ibrahim M. (*with* Hassan, Mohamed Y.) Fitting income distribution using a new parametric Lorenz curve. (English summary) **2005k:62250**
Aitkin, Murray (*with* Francis, Brian; Hinde, John) ★ Statistical modelling in GLIM 4.
Akdeniz, Fikri (*with* Yüksel, Güzin; Wan, Alan T. K.) The moments of the operational almost unbiased ridge regression estimator. (English summary) **2005e:62101**
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Amari, Shun-ichi (*with* Burnashev, M. V.) On some singularities in problems of parameter estimation. (Russian. Russian summary) **2005g:94013**
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Arcos Cebrián, Antonio (*with* Rueda García, Maria del Mar; Martínez-Miranda, M. D.; González Aguilera, Silvia; Román, Y.) Incorporating the auxiliary information available in variance estimation. (English summary)
Arellano-Valle, Reinaldo B. (*with* Gómez, Héctor W.; Quintana, Fernando A.) Statistical inference for a general class of asymmetric distributions. (English summary) **2005f:62017**
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(Auranen, Kari) *see* **Becker, Niels G., (2005b:62009)**
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Bagdonavičius, Vilijandas B. (*with* Zdorova-Cheminade, Olga; Nikulin, Mikhail S.) Statistical planning and inference in accelerated life testing using the CHSS model. (English summary)
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Baker, Frank B. (*with* Kim, Seock-Ho) ★ Item response theory. **2005c:62002**
Balakrishnan, Narayanaswamy (*with* Kim, J.-A.) EM algorithm for type-II right censored bivariate normal data. (English summary) (*see* **2005d:62008**)
Ball, Frank G. (*with* Britton, Tom; Lyne, Owen D.) Stochastic multitype epidemics in a community of households: estimation of threshold parameter R_* and secure vaccination coverage. (English summary)
— (*with* Britton, Tom; Lyne, Owen D.) Stochastic multitype epidemics in a community of households: estimation and form of optimal vaccination schemes. (English summary) **2005c:92034**
Banks, H. T. (*with* Potter, Laura K.) Probabilistic methods for addressing uncertainty and variability in biological models: application to a toxicokinetic model. (English summary) **2005i:92001**
— (*with* Ma, Yun-Rong; Potter, Laura K.) A simulation-based comparison between parametric and nonparametric estimation methods in PBPK models. (English summary)
Bansal, Naveen K. (*with* Miescke, Klaus J.) Simultaneous selection and estimation of the best treatment with respect to a control in a general linear model. (English summary) **2005m:62052**
— *see also* **Misra, Neeraj et al., 2005f:62035**
Baragona, Roberto (*with* Battaglia, Francesco; Cucina, Domenico) Estimating threshold subset autoregressive moving-average models by genetic algorithms. (English summary)
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— (*with* Pap, Gyula[1]; Van Zuijlen, Martien C. A.) Asymptotic inference for an unstable spatial AR model. (English summary) **2005j:62123**
Bar-Lev, Shaul K. Likelihood-based inference for the shape parameter of a two parameter Weibull distribution. (English summary)
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Barone Adesi, Giovanni (*with* Gagliardini, Patrick; Urga, Giovanni) Testing asset pricing models with coskewness. (English summary)
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Bartolucci, F. (*with* Scaccia, L.) Testing for positive association in contingency tables with fixed margins. (English summary)
Barzanti, L. (*with* Corradi, Corrado) A stable iterative algorithm for evaluation of upper and lower approximations to ultimate ruin probabilities. (English and Italian summaries)
Basawa, I. V. (*with* Lund, Robert; Shao, Qin) First-order seasonal autoregressive processes with periodically varying parameters. (English summary) **2005m:62156**
Basso, D. (*with* Salmaso, L.; Evangelaras, H.; Koukouvinos, Christos) Nonparametric testing for main effects on inequivalent designs. (English summary) (*see* **2005f:62009**)
Basu, Srabashi (*with* Landis, J. Richard) Model-based estimates of population attributable risks for ordinal data. (English summary)
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Bautista, Ezequiel Abraham López (*with* Zocchi, Silvio Sandoval; Angelocci, Luiz Roberto) Fitting the generalized extreme value distribution to maximum wind speed data in Piracicaba, São Paulo, Brazil. (Portuguese. English and Portuguese summaries)
Bauwens, Luc (*with* Rombouts, Jeroen V. K.) Econometrics. (*see* **2005g:62004**)
Becker, Niels G. (*with* Utev, Sergei) Preventing epidemics in heterogeneous environments. (*see* **2005b:62009**)
— (*with* Britton, Tom) Estimating vaccine efficacy from small outbreaks. (English summary)
Benkherouf, Lakdere Measure change techniques. A tutorial. I. (English summary)
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Benvenuti, Luca (*with* Di Benedetto, M. D.; Di Gennaro, S.; Sangiovanni-Vincentelli, Alberto L.) Individual cylinder characteristic estimation for a spark injection engine. (English summary)
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Bertail, Patrice Empirical likelihood in nonparametric and semiparametric models. (English summary) **2005f:62056**
Besbeas, Panagiotis (*with* Morgan, Byron J. T.) Efficient and robust estimation for the one-sided stable distribution of index $\frac{1}{2}$. (English summary) **2005a:62081**
Bhattacharyya, Mouchumi (*with* Klein, John P.) A random effects model for multistate survival analysis with application to bone marrow transplants. (English summary)
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Birkes, D. *see* **Wulff, Shaun S., 2005m:62138**
Biswas, Atanu (*with* Dewanji, Anup) A randomized longitudinal play-the-winner design for repeated binary data. (English summary) **2005h:62289**
— (*with* Dewanji, Anup) Inference for a RPW-type clinical trial with repeated monitoring for the treatment of rheumatoid arthritis. (English summary)
Blundell, Richard W. (*with* Powell, James L.) Endogeneity in semiparametric binary response models. (English summary)
Boucher, Kenneth M. (*with* Asselain, Bernard; Tsodikov, Alexander D.; Yakovlev, Andrei Yur'evich) Semiparametric versus parametric regression analysis based on the bounded cumulative hazard model: an application to breast cancer recurrence. (English summary) (*see* **2005d:62008**)
Boyer, Eric *see* **Forster, Philippe et al., 2005f:94021**
Breslow, Norman E. Whither PQL? (English summary) (*see* **2005j:62008**)
— *see also* **Chen, Jinbo**
Briggs, Derek *see* **Tuerlinckx, Francis et al., (2005f:62006)**
Britton, Tom *see* **Ball, Frank G. et al., 2005c:92034** *and* **Becker, Niels G.**
Brown, Patrick E. (*with* Diggle, Peter J.; Henderson, Robin) A model-based approach to quality control of paper production. (English summary)
Burnashev, M. V. *see* **Amari, Shun-ichi, 2005g:94013**
Burr, Tom (*with* Gattiker, James) The impact of model uncertainty on biological parameter estimates. (English summary)
(Butler, Ronald W.) *see* **Fraser, Donald A. S.**
Cacuci, Dan G. (*with* Ionescu-Bujor, Mihaela; Navon, Ionel Michael) ★ Sensitivity and uncertainty analysis. Vol. II.
Caeiro, Frederico *see* **Gomes, M. Ivette et al., 2005g:62064**
Cai, Jianwen (*with* Schaubel, Douglas E.) Marginal means/rates models for multiple type recurrent event data. (English summary) **2005c:62056**
— *see also* **Kong, Lan et al., 2005b:62074**; **Schaubel, Douglas E., 2005e:62134** *and* **Yin, Guosheng**
Cai, Tianxi (*with* Cheng, Su-Chun) Semiparametric regression analysis for doubly censored data. (English summary) **2005b:62196**
Calafiore, Giuseppe *see* **Tempo, Roberto et al., 2005m:93003**
Calil, Carlito, Jr. *see* **Martínez-Espinosa, Mariano et al.**
Calzolari, Giorgio (*with* Fiorentini, Gabriele; Sentana, Enrique) Constrained indirect estimation. (English summary) **2005d:62040**
Carleos, Carlos (*with* Corral Blanco, Norberto; Lubiano, M. Asunción; Baro, Jesús Angel) Enhanced QTL linkage analysis with DNA pooling by means of Monte Carlo EM. (*see* **2005i:62007**)
Casella, George *see* **Wu, Rongling et al.**

Cassandras, Christos G. *see* **Sun, Gang[1] et al., 2005i:60188**
del Castillo, E. *see* **Colosimo, B. M. et al.**
Chao, Anne (*with* Yang, Hsin-Chou; Yip, Paul S. F.) The use of capture-recapture methodology in epidemiological surveillance. (*see* **2005c:62003**)
Chaturvedi, Anoop (*with* Shalabh) Risk and Pitman closeness properties of feasible generalized double k-class estimators in linear regression models with non-spherical disturbances under balanced loss function. (English summary)
Chechile, Richard A. New multinomial models for the Chechile-Meyer task. (English summary) **2005h:91186**
Chen, Gemai *see* **You, Jin Hong, 2005k:62114**
Chen, Hwei-Ming *see* **Yang, Miin-Shen**
Chen, James J. Statistics in toxicology. (English summary) (*see* **2005c:62003**)
Chen, Jinbo (*with* Breslow, Norman E.) Semiparametric efficient estimation for the auxiliary outcome problem with the conditional mean model. (English and French summaries)
Chen, Kani Statistical estimation in the proportional hazards model with risk set sampling. (English summary) **2005k:62229**
Chen, Sheau-Chyi *see* **Wang, Kuo-Hsiung et al.**
Chen, Tong Wen *see* **Ding, Feng[2], 2005i:93095**
Cheng, Chi Lun (*with* Kukush, A. G.) A goodness-of-fit test for a polynomial errors-in-variables model. (English and Ukrainian summaries) **2005i:62073**
— *see also* **Schneeweiss, Hans et al., 2005b:62144**
Cheng, Su-Chun *see* **Cai, Tianxi, 2005b:62196**
Cheng, Wei Hu *see* **Yang, Zhen Hai**
Cheng, Yuk W. (*with* Lawrence, Craig S.) Estimating the parameters of the statistical upper bound of dry hepatopancreas weight of yabbies (Cherax albidus) by the EM1 algorithm. (English summary)
Chick, Stephen E. *see* **Ng, Szu Hui**
Chiogna, Monica *see* **Azzalini, Adelchi**
Chiu, Yung-Ho (*with* Shen, Da-Bai; Ma, Chun-Mei) Small business lending and bank cost efficiency. (English summary)
Chiuso, Alessandro (*with* Picci, Giorgio) The asymptotic variance of subspace estimates. (English summary) **2005h:62182**
Cho, Hokwon A. (*with* Govindarajulu, Z.) Risk-efficient sequential estimation of the number of multinomial cells. (English summary) **2005k:62181**
Chow, Carson C. *see* **Clermont, Gilles et al., (2005i:62003)**
Christensen, Ole F. Monte Carlo maximum likelihood in model-based geostatistics. (English summary)
Cicconetti, Greg *see* **Mukhopadhyay, Nitis, (2005b:62008)**
Clermont, Gilles (*with* Chow, Carson C.; Constantine, Gregory M.; Vodovotz, Yoram; Bartels, John) Mathematical and statistical modeling of acute inflammation. (English summary) (*see* **2005i:62003**)
Collins, Michael Head-driven statistical models for natural language parsing. (English summary)
Colosimo, B. M. (*with* Pan, Rong; del Castillo, E.) A sequential Markov chain Monte Carlo approach to set-up adjustment of a process over a set of lots. (English summary)
Constantine, Gregory M. *see* **Clermont, Gilles et al., (2005i:62003)**
Conversano, Claudio Smoothing score algorithm for generalized additive models. (English summary) (*see* **2005f:62007**)
Copas, John B. *see* **Lu, Guobing, 2005d:62014**
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Corradi, Corrado *see* **Barzanti, L.**
Corral Blanco, Norberto *see* **Carleos, Carlos et al., (2005i:62007)**
Couallier, Vincent Comparison of parametric and semiparametric estimates in a degradation model with covariates and traumatic censoring. (English summary) (*see* **2005d:62008**)
Cox, David R. (*with* Reid, N.) A note on pseudolikelihood constructed from marginal densities. (English summary)
Cucina, Domenico *see* **Baragona, Roberto et al.**
Dabbene, Fabrizio *see* **Tempo, Roberto et al., 2005m:93003**
Das, Kalyan (*with* Jiang, Jiming; Rao, J. N. K.) Mean squared error of empirical predictor. (English summary) **2005a:62208**
Datta, Gauri Sankar (*with* Mukerjee, Rahul) ★ Probability matching priors: higher order asymptotics. **2005b:62004**
Dayananda, P. W. A. (*with* Kemper, John T.; Shvartsman, Mikhail M.) A stochastic model for prostate-specific antigen levels. (English summary)
De Boeck, Paul *see* **Tuerlinckx, Francis et al., (2005f:62006)**
Demetriu, Sorin *see* **Mierluş-Mazilu, Ion et al., 2005h:62281**
Demidenko, E. Z. ★ Mixed models. **2005e:62002**
Deng, Guang Iterative learning algorithms for linear Gaussian observation models. (English summary) **2005d:68119**
Dette, Holger *see* **Biedermann, S. et al., 2005g:62132**
Dewanji, Anup *see* **Biswas, Atanu, 2005h:62289**
Dharmadhikari, A. D. (*with* Rahman, Md. Monsur) A model for step-stress accelerated life testing. (English summary) **2005b:90031**
Díaz-Francés, Eloísa (*with* Sprott, David A.) The estimation of $p \geq q$ from two independent binomial samples $b(n, p)$ and $b(m, q)$. (English summary) (*see* **2005h:62009**)
Di Benedetto, M. D. *see* **Benvenuti, Luca et al.**
Di Gennaro, S. *see* **Benvenuti, Luca et al.**
Diggle, Peter J. *see* **Brown, Patrick E. et al.**
Dimcevici-Poesina, Nicoleta On robust procedures for bioassays case fixed dose design. (English summary)
Ding, Feng[2] (*with* Chen, Tong Wen) Performance bounds of forgetting factor least-squares algorithms for time-varying systems with finite meaurement data. (English summary) **2005i:93095**
Ditlevsen, Susanne (*with* Sørensen, Michael) Inference for observations of integrated diffusion processes. (English summary) **2005c:62142**
— (*with* Yip, Kay-Pong; Holstein-Rathlou, Niels-Henrik) Parameter estimation in a stochastic model of the tubuloglomerular feedback mechanism in a rat nephron. (English summary)
Dmitrienko, A. A. (*with* Govindarajulu, Z.) Sequential estimation in binary response models with fixed and random covariates. (English summary)
Dolado, Juan J. (*with* Marmol, Francesc) Asymptotic inference results for multivariate long-memory processes. (English summary) **2005c:62151**
Donnelly, Christl A. *see* **Riley, Steven et al.**
Donner, Allan *see* **Zou, Guangyong**
van Dorp, Johan René *see* **Kotz, Samuel, 2005j:62005**
Dragalin, Vladimir (*with* Yakir, Benjamin; Hall, William J.) Bias of estimates of secondary parameters in linear-boundary sequential tests. (English summary) **2005j:62161**
Duin, R. P. W. *see* **van der Heijden, F. et al., 2005h:62004**
Dunajeva, Olga (*with* Kollo, Tõnu; Traat, Imbi) Bias correction for the shape parameter of the skew normal distribution. (English summary) **2005c:62100**
Edeson, Robert O. *see* **Khan, R. Nazim et al.**
Egger, Peter (*with* Pfaffermayr, Michael) Estimating long and short run effects in static panel models. (English summary)
Elad, Michael (*with* Milanfar, Peyman; Golub, Gene H.) Shape from moments—an estimation theory perspective. (English summary)
Eldar, Yonina C. Minimum variance in biased estimation: bounds and asymptotically optimal estimators. (English summary) **2005g:94016**
— (*with* Ben-Tal, Aharon; Nemirovskii, Arkadii) Robust mean-squared error estimation in the presence of model uncertainties. (English summary) **2005h:93156**
El Himdi, Khalid *see* **Berrahou, Nawale, 2005d:62038**
Engel, Jan (*with* van Kempen, Joris) Characterizing the measurement precision of thermal resistance measurements. (English summary)
Engl, Heinz W. (*with* Kügler, Philipp) Parameter identification in industrial problems via iterative regularization methods. (*see* **2005a:00022**)
Engle, Robert F. (*with* Manganelli, Simone) CAViaR: conditional autoregressive value at risk by regression quantiles. (English summary) **2005h:62284**
Escobar, Luis A. *see* **Nair, Vijayan N. et al., (2005a:62018)**
Evangelaras, H. *see* **Basso, D. et al., (2005f:62009)**
Evans, Steven N. Fourier analysis and phylogenetic trees. (English summary) (*see* **2005b:94011**)
Ewens, Warren J. (*with* Grant, Gregory R.) ★ Statistical methods in bioinformatics: an introduction. **2005g:92001**
Fedorov, Valerii V. (*with* Leonov, Sergei L.) Parameter estimation for models with unknown parameters in variance. (English summary) **2005k:62143**
Fei, He Liang (*with* Zhang, Xue Xin) Maximum likelihood estimate of step-stress accelerated life testing under exponential distribution. (Chinese. English and Chinese summaries) **2005h:62277**
— *see also* **Sun, Li Bin, 2005e:62133**
Femia Marzo, P. *see* **Martín Andrés, A.**
Ferguson, Neil M. *see* **Riley, Steven et al.**
Ferland, René (*with* Froda, Sorana; Lavigne, Jean) A simulation study of a minimum distance estimator for finite mixtures under censoring. (English summary) (*see* **2005m:62007**)
Fernández-Álvarez, J. Paulino (*with* Fernández-Martínez, Juan Luis; Menéndez-Pérez, C. Omar) A posteriori inference of model parameters in a geophysical inverse problem using GA. (*see* **2005i:62007**)
Fernández-Martínez, Juan Luis *see* **Fernández-Álvarez, J. Paulino et al., (2005i:62007)**
Fernández Morales, Antonio Inequality and poverty in rural and urban areas in Spain: a parametric focus. (Spanish. Spanish summary)
Figueiredo, Fernanda *see* **Gomes, M. Ivette et al., 2005g:62064**
Fine, Jason P. (*with* Yan, Jun; Kosorok, Michael R.) Temporal process regression. (English summary) **2005d:62054**
Fiocco, Marta (*with* van Zwet, Willem R.) Parameter estimation for the supercritical contact process. (English summary) **2005b:62175**
— (*with* van Zwet, Willem R.) Maximum likelihood estimation for the contact process. (English summary) (*see* **2005i:62005**)
Fiorentini, Gabriele *see* **Calzolari, Giorgio et al., 2005d:62040**
Fischer, Paul A. *see* **Bernholt, Thorsten, 2005f:62053**
Fišerová, Eva Estimation in universal models with restrictions. (English summary) **2005k:62164**
Florens, Jean-Pierre (*with* Simar, Léopold) Parametric approximations of nonparametric frontiers. (English summary) **2005f:62165**
Forster, Philippe (*with* Larzabal, Pascal; Boyer, Eric) Threshold performance analysis of maximum likelihood DOA estimation. (English summary) **2005f:94021**
Fountain, R. L. An ordering among generalized closeness criteria. (English summary) **2005b:60042**
Francis, Brian *see* **Aitkin, Murray et al.**
Franses, Philip Hans Fifty years since Koyck (1954). (English summary) **2005k:62006**
Fraser, Donald A. S. Ancillaries and conditional inference. (English summary)
Frees, Edward W. ★ Longitudinal and panel data.
Froda, Sorana *see* **Ferland, René et al., (2005m:62007)**
Fuh, Cheng-Der On Bahadur efficiency of the maximum likelihood estimator in hidden Markov models. (English summary) **2005a:62186**
Fujisawa, Hironori Asymptotic properties of conditional maximum likelihood estimator in a certain exponential model. (English summary) **2005g:62048**
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Gao, Hong Zhong A new class of claim frequency distributions. (Chinese. English and Chinese summaries) **2005m:62192**
Gao, Shesheng *see* **Shi, Yi Min et al., 2005b:62024**
García-Pérez, Miguel A. (*with* Núñez-Antón, Vicente) On the chi-square approximation to the exact distribution of goodness-of-fit statistics in multinomial models with composite hypotheses. (English summary)
Garren, Steven T. Improved estimation of medians subject to order restrictions in unimodal symmetric families. (English summary) **2005b:62064**
Gastwirth, Joseph L. *see* **Zheng, Gang[1]**
Gattiker, James *see* **Burr, Tom**
Gauchi, J.-P. (*with* Pázman, Andrej) Small size designs in nonlinear models computed by stochastic optimization. (English summary) **2005h:62196**

Ge, Zhiyu (*with* Bickel, Peter J.; Rice, John A.) An approximate likelihood approach to nonlinear mixed effects models via spline approximation. (English summary)
Gertel, Héctor R. (*with* Giuliodori, Roberto; Auerbach, Paula F.; Rodríguez, Alejandro F.) A parametric estimation of personal income distribution in Argentina using the Dagum model. (English summary)
Ghazvininejad, D. *see* **Sanjari Farsipour, N., 2005j:62024**
Ghilardi, G. (*with* Orsini, N.) Random intercept linear models and estimators for the evaluation of educational systems. (Italian. English and Italian summaries)
Ghitany, M. E. (*with* Al-Awadhi, Fahimah; Al-Awadhi, S. A.) Modeling the presence of long-term survivors using generalized Burr XII mixture model. (English summary)
Ghosh, Bhaskar K. (*with* Huang, Wei-Min) The sample size for estimating the binomial parameter with a given margin of error. (English summary) (*see* **2005i:62004**)
Gilmour, Steven G. *see* **Tsai, Pi-Wen et al.**
Giuliodori, Roberto *see* **Gertel, Héctor R. et al.**
Givens, Geof H. (*with* Hoeting, Jennifer A.) ★ Computational statistics. **2005h:62003**
Gluhovsky, Ilya Evolutionary simulated annealing with application to image restoration. (English summary) **2005g:90176**
Goetghebeur, E. *see* **Vansteelandt, S.**
Golub, Gene H. *see* **Elad, Michael et al.**
Gomes, M. Ivette (*with* Caeiro, Frederico; Figueiredo, Fernanda) Bias reduction of a tail index estimator through an external estimation of the second-order parameter. (English summary) **2005g:62064**
Gómez, Héctor W. *see* **Arellano-Valle, Reinaldo B. et al., 2005f:62017**
González Aguilera, Silvia *see* **Arcos Cebrián, Antonio et al.**
Govindarajulu, Z. *see* **Cho, Hokwon A., 2005k:62181** *and* **Dmitrienko, A. A.**
Graham, Bryan S. (*with* Hahn, Jinyong) Identification and estimation of the linear-in-means model of social interactions. (English summary)
Granichin, O. N. Linear regression and filtering under nonstandard assumptions (arbitrary noise). (English summary) **2005f:93166**
Grant, Gregory R. *see* **Ewens, Warren J., 2005g:92001**
Greenwood, Priscilla E. (*with* Müller, Ursula U.; Wefelmeyer, Wolfgang) An introduction to efficient estimation for semiparametric time series. (English summary) (*see* **2005d:62008**)
Groß, Jürgen ★ A normal distribution course. **2005h:62006**
— (*with* Markiewicz, Augustyn) Characterizations of admissible linear estimators in the linear model. (English summary) **2005e:62099**
— The general Gauss-Markov model with possibly singular dispersion matrix. (English summary) **2005f:62110**
Gubanov, V. S. ★ Обобщенный метод наименьших квадратов. (Russian. Russian summary) [The generalized method of least squares] **2005e:65010**
Guibas, Leonidas J. *see* **Mitra, Niloy J. et al., 2005k:65023**
Guo, Kui (*with* Yu, Dan[1]) Reliability evaluation of solid propellant tensile strength. (Chinese. English and Chinese summaries) **2005i:62143**
Guo, Wei Juan (*with* Liu, Xiao Mao; Wang, Gang) The F test of Value-at-Risk. (Chinese. English and Chinese summaries) **2005k:62144**
Guo, Xin A regime switching model: statistical estimation, empirical evidence, and change point detection. (English summary) (*see* **2005b:91010**)
Gupta, Arjun K. (*with* Nguyen, Truc T.; Pardo, Leandro) Phi-residual based on minimum phi-divergence estimator in the loglinear model of symmetry. **2005k:62152**
— (*with* Sheena, Y.) Estimation of a multivariate normal covariance matrix under a certain structure. (English summary) **2005h:62098**
— *see also* **Sheena, Y., 2005c:62052**
Gupta, Rahul (*with* Bhougal, S.; Joorel, J. P. S.) Sequential procedure for estimation of mean of an inverse Gaussian distribution. (English summary) **2005g:62140**
Gurov, S. I. Reliability estimation of classification algorithms. I. Introduction to the problem. Point frequency estimates. (English summary)
Gurumurthy (*with* Sundarraj, N.; Srivenkataramana, T.) Inverse double sampling from mixture populations. (English summary) **2005j:62027**
Haario, H. (*with* Laine, M.; Lehtinen, Markku S.; Saksman, Eero; Tamminen, J.) Markov chain Monte Carlo methods for high dimensional inversion in remote sensing. (English summary)
Hahn, Jinyong *see* **Graham, Bryan S.**
Hall, William J. *see* **Dragalin, Vladimir et al., 2005j:62161**
Hamada, Michael S. *see* **Nair, Vijayan N. et al., (2005a:62018)**
Hamedani, G. G. *see* **Misra, Neeraj et al., 2005f:62035**
Hanagal, David D. Estimation of system reliability in multicomponent series stress-strength models. (English summary) **2005d:62161**
— Parametric bivariate regression analysis based on censored samples: a Weibull model. (English summary)
Härdle, Wolfgang K. *see* **Wang, Qi-Hua, 2005m:62137**
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He, Can Zhi *see* **Yu, Sheng Hua, 2005d:62020**
He, Chuan Fu (*with* Zhou, Hui Xin; Yu, Xian Qun) L_2-estimators of contaminated data with nonlinear constraints. (Chinese. English and Chinese summaries) **2005h:62174**
He, Shu Yuan *see* **Wang, Yan Hua[1] et al., 2005e:62010**
Heiberger, Richard M. (*with* Holland, Burt) ★ Statistical analysis and data display. **2005b:62002**
van der Heijden, F. (*with* Duin, R. P. W.; de Ridder, D.; Tax, D. M. J.) ★ Classification, parameter estimation and state estimation. **2005h:62004**
Hein, Jotun (*with* Schierup, Mikkel H.; Wiuf, Carsten) ★ Gene genealogies, variation and evolution. **2005m:92021**
Heitjan, Daniel F. *see* **Troxel, Andrea B. et al.**
Hemming, K. (*with* Shaw, J. E. H.) A class of parametric dynamic survival models. (English summary)
Henderson, Daniel J. (*with* Millimet, Daniel L.) Environmental regulation and US state-level production. (English summary)
Henderson, Robin *see* **Brown, Patrick E. et al.**
Hendriks, Harrie The admissibility of the empirical mean location for the matrix von Mises-Fisher family. (English summary) **2005i:62082**
Hernández-del-Valle, Adrián (*with* Hernández-Lerma, Onésimo) ★ Elementos de probabilidad y estadística. (Spanish) [Elements of probability and statistics] **2005e:60001**
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Hinde, John *see* **Aitkin, Murray et al.**
Hingley, P. J. Analytic estimator densities for common parameters under misspecified models. (English summary) **2005d:62013**
Hoeting, Jennifer A. *see* **Givens, Geof H., 2005h:62003**
Hofmann, Glenn Comparing the Fisher information in record data and random observations. (English summary) **2005h:62019**
Hogan, Joseph W. (*with* Lee, Joo Yeon[1]) Marginal structural quantile models for longitudinal observational studies with time-varying treatment. (English summary)
Holland, Burt *see* **Heiberger, Richard M., 2005b:62002**
Holstein-Rathlou, Niels-Henrik *see* **Ditlevsen, Susanne et al.**
Hornstein, Alexander (*with* Parlitz, Ulrich) Bias reduction for time series models based on support vector regression. (English summary)
Horowitz, Joseph *see* **Rosenkrantz, Walter A., 2005j:62194**
Höse, S. (*with* Huschens, S.) From credit scores to stable default probabilities: a model based approach. (English summary) (*see* **2005b:62008**)
Hoshino, Takahiro A latent variable model with non-ignorable missing data. (English summary)
Hossain, Ahmed (*with* Khan, H. T. Abdullah) A comparative study of selected nonparametric multistate approaches for estimating the survival function. (English summary)
Hu, Han Ping[1] *see* **Liu, Ling[1] et al., 2005d:94217**
Hu, Xue Mei *see* **Wang, Zhi Zhong[2]**
Huang, Chao (*with* Xiao, Zhi Hong; Liu, Xian Long) A least squares estimate of covariance matrix in an extended growth curve model and its optimal property. (Chinese. English and Chinese summaries) **2005g:62126**
Huang, Chiung-Yu (*with* Wang, Mei-Cheng) Joint modeling and estimation for recurrent event processes and failure time data. (English summary) **2005g:62175**
Huang, Deng-Yuan (*with* Lee, Ren-Fen) On some ranking and selection procedures for MANOVA models with applications. (English summary) (*see* **2005h:62008**)
Huang, Hsin-Cheng *see* **Shen, Xiaotong et al., 2005c:62011**
Huang, Ping-Huang (*with* Hwang, Tea-Yuan) The inference of Gini's mean difference. (English summary) **2005h:62050**
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Huggins, Richard M. *see* **Qian, Guoqi et al.**
Huschens, S. *see* **Höse, S., (2005b:62008)**
Hwang, Tea-Yuan *see* **Huang, Ping-Huang, 2005h:62050**
Iaşinschi, Adrian *see* **Vladimirescu, Ion, 2005j:62032**
Ikeda, Shiro *see* **Murata, Noboru, (2005f:62005)**
Ikuta, Akira *see* **Xiao, Yegui et al.**
Ingrassia, Salvatore A likelihood-based constrained algorithm for multivariate normal mixture models. (English summary)
Ioannides, Dimitrios A. *see* **Papanastassiou, Demetrios**
Ionescu-Bujor, Mihaela *see* **Cacuci, Dan G. et al.**
Ivanov, Anatoliĭ Fedorovich (*with* Kazmerchuk, Y. I.; Svishchuk, A. V.) Theory, stochastic stability and applications of stochastic delay differential equations: a survey of results. (English summary) **2005e:60118**
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Jacobsen, Judith L. *see* **Tornøe, Christoffer Wenzel et al., 2005c:92015**
(Jain, Anil K.) *see* **van der Heijden, F. et al., 2005h:62004**
Jammalamadaka, Sreenivasa Rao *see* **Sengupta, Debasis, 2005a:62161** *and* **Ranneby, Bo et al., 2005k:62148**
Janečková, Hana (*with* Prášková, Zuzana) CWLS and ML estimates in a heteroscedastic RCA(1) model. (English summary) **2005j:62171**
Janz, Norbert Outlier robust estimation of an Euler equation investment model with German firm level panel data. (English summary) **2005b:91119**
Jelinek, Frederick Stochastic analysis of structured language modeling. (English summary) **2005c:68260**
Jeng, Shuen-Lin (*with* Lahiri, Soumendra N.; Meeker, William Q.) Asymptotic properties of bootstrapped likelihood ratio statistics for time censored data. (English summary) **2005j:62196**
Jensen, D. R. (*with* Srinivasan, S. S.) Matrix equivalence classes with applications. (English summary) **2005f:15024**
— Condition numbers and D-efficiency. (English summary) **2005a:62172**
Jeske, Daniel R. (*with* Sampath, Ashwin) Signal-to-interference-plus-noise ratio estimation for wireless communication systems: methods and analysis. (English summary) **2005j:94002**
Jiang, Jiming *see* **Das, Kalyan et al., 2005a:62208**
Jiang, Wenxin (*with* Turnbull, Bruce W.) Some applications of indirect inference to longitudinal and repeated events data. (English summary) (*see* **2005j:62008**)
Johansson, Joachim Estimating the mean of heavy-tailed distributions. (English summary) **2005c:62094**
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Jørgensen, Sten Bay *see* **Kristensen, Niels Rode et al., 2005m:93145**
Juričić, Đani (*with* Žele, Mina) Robust detection of sensor faults by means of a statistical test. (English summary)
Kaart, Tanel About the data designs for estimation of genetic parameters in animal breeding studies. (English summary)
Kahle, Waltraud *see* **Wendt, Heide, (2005d:62008)**
Kaitaniemi, Pekka Testing the allometric scaling laws. (English summary)
Kawamura, Toshihiko (*with* Iwase, Kōsei) Characterization of 2-variate distributions derived from 2-variate normal distribution based on maximum entropy method. (Japanese. English summary) **2005b:62032**
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— (*with* van Dorp, Johan René) Uneven two-sided power distributions with applications in econometric models. (English summary)
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Rowland, Jem *see* **Pritchard, Leighton et al.**
Rudas, Tamás (*with* Bergsma, Wicher P.) On applications of marginal models for categorical data. (English summary)
Rueda García, Maria del Mar *see* **Arcos Cebrián, Antonio et al.**
Ruíz Espejo, Mariano *see* **Singh, Housila Prasad et al.**
Ruppert, David ★ Statistics and finance. **2005a:62006**
Saftenku, E. È. Modeling of slow glutamate diffusion and AMPA receptor activation in the cerebellar glomerulus. (English summary)
Sahoo, L. N. (*with* Sahoo, R. K.; Senapati, S. C.) Predictive estimation of finite population mean using regression-type estimators in double sampling procedures. (English summary) **2005g:62022**
Sahoo, R. K. *see* **Sahoo, L. N. et al.**, 2005g:62022
Saksman, Eero *see* **Haario, H. et al.**
Salmaso, L. *see* **Basso, D. et al.**, (2005f:62009)
Sampath, Ashwin *see* **Jeske, Daniel R.**, 2005j:94002
Sandler, Howard M. *see* **Yu, Menggang et al.**
Sangiovanni-Vincentelli, Alberto L. *see* **Benvenuti, Luca et al.**
Sanjari Farsipour, N. (*with* Asgharzadeh, A.) Estimation of a normal mean relative to balanced loss functions. (English summary) **2005b:62026a**
— (*with* Ghazvininejad, D.) Minimax estimation of a bounded binomial parameter. (English summary) **2005j:62024**
— (*with* Asgharzadeh, A.) Estimation of a normal mean relative to balanced loss functions. (English summary) **2005b:62026b**
Sankaran, P. G. (*with* Nair, Maya T.) On a finite mixture of beta distributions. (English summary)
Santamaría, Laureano (*with* Morales, Domingo; Molina, Isabel) A comparative study of small area estimators. (English summary)
Saxena, Sharad *see* **Singh, Housila Prasad et al.**
Scaccia, L. *see* **Bartolucci, F.**
Scharfstein, Daniel O. *see* **Lin, Haiqun et al.**
Schaubel, Douglas E. (*with* Cai, Jianwen) Regression methods for gap time hazard functions of sequentially ordered multivariate failure time data. (English summary) **2005e:62134**
— *see also* **Cai, Jianwen**, 2005c:62056
Schechtman, Edna *see* **Yitzhaki, Shlomo**, 2005m:62197
Schick, Anton *see* **Müller, Ursula U. et al.**, 2005m:62082
Schierup, Mikkel H. *see* **Hein, Jotun et al.**, 2005m:92021
Schneeweiss, Hans (*with* Cheng, Chi Lun; Wolf, Roland) On the bias of structural estimation methods in a polynomial regression with measurement error when the distribution of the latent covariate is misspecified. (English summary) **2005b:62144**
Schoenberg, Frederic Paik Consistent parametric estimation of the intensity of a spatial-temporal point process. (English summary) **2005g:62148**
Selçuk, Faruk Financial earthquakes, aftershocks and scaling in emerging stock markets. (English summary)
Sempi, Carlo Conditional expectations and idempotent copulæ. (English summary) (*see* **2005a:62016**)
Sen, Pranab Kumar[1] Bioinformatics: statistical perspectives and controversies. (English summary) (*see* **2005a:62014**)
— *see also* **Kong, Lan et al.**, 2005b:62074
Senapati, S. C. *see* **Sahoo, L. N. et al.**, 2005g:62022
Sengupta, Debasis (*with* Jammalamadaka, Sreenivasa Rao) ★ Linear models. **2005a:62161**
Sentana, Enrique *see* **Calzolari, Giorgio et al.**, 2005d:62040
Severini, Thomas A. A modified likelihood ratio statistic for some nonregular models. (English summary)
Shalabh *see* **Chaturvedi, Anoop**
Shanthikumar, J. George *see* **Liyanage, Liwan H.**, 2005k:90005
Shao, Qin *see* **Basawa, I. V. et al.**, 2005m:62156
Shaw, J. E. H. *see* **Hemming, K.**
Sheena, Y. (*with* Gupta, Arjun K.) Estimation of the multivariate normal covariance matrix under some restrictions. (English summary) **2005c:62052**
— *see also* **Gupta, Arjun K.**, 2005h:62098
Shen, Da-Bai *see* **Chiu, Yung-Ho et al.**
Shen, Xiaotong (*with* Huang, Hsin-Cheng; Ye, Jimmy) Inference after model selection. (English summary) **2005c:62011**
Shi, Ning-Zhong *see* **Wang, De Hui et al.**, 2005k:62218
Shi, Xiaolin *see* **Shi, Yi Min et al.**, 2005b:62024
Shi, Yi Min (*with* Shi, Xiaolin; Gao, Shesheng) Empirical Bayes estimation of the truncation parameter with asymmetric loss function using NA samples. (English summary) **2005b:62024**
Shih, Mei-Chiung *see* **Lai, Tze Leung et al.**, (2005c:62003)
Shouda, Tomoaki *see* **Nakagawa, Hidetoshi**, 2005f:60139
Shukla, Sushil Kumar *see* **Singh, Housila Prasad et al.**
Shvartsman, Mikhail M. *see* **Dayananda, P. W. A. et al.**
Siannis, Fotios Applications of a parametric model for informative censoring. (English summary)
Sibbertsen, Philipp Long memory versus structural breaks: an overview. (English summary)
Siegmund, David O. *see* **Storey, John D. et al.**
Signahl, Mikael Sensitivity analysis via simulation in the presence of discontinuities. (English summary) **2005k:93136**
da Silva, M. Eduarda A. (*with* Oliveira, Vera Lúcia) Difference equations for the higher order moments and cumulants of the INAR(p) model. (English summary)
Simar, Léopold *see* **Florens, Jean-Pierre**, 2005f:62165
Singh, Housila Prasad (*with* Shukla, Sushil Kumar; Saxena, Sharad) Families of shrinkage estimators of k-th power of scale parameter in two-parameter exponential distribution. (English summary)
— (*with* Saxena, Sharad; Ruíz Espejo, Mariano) Estimation of standard deviation in normal parent by shrinkage towards an interval. (English summary)
(Skovgaard, Ib Michael) *see* **Fraser, Donald A. S.**
Söderström, Torsten *see* **Mahata, Kaushik**
Soize, Christian Random matrix theory for modeling uncertainties in computational mechanics. (English summary) **2005i:74077**
Song, Li Xin[1] *see* **Wang, De Hui et al.**, 2005k:62218
Song, Peter X.-K. *see* **Qu, Annie**
Sørensen, Michael *see* **Ditlevsen, Susanne**, 2005c:62142
Sornette, D. *see* **Pisarenko, V. F.**, 2005e:37195
Spagnolini, Umberto *see* **Nicoli, Monica**
Sprott, David A. *see* **Díaz-Francés, Eloísa**, (2005h:62009)
Srinivasan, S. S. *see* **Jensen, D. R.**, 2005f:15024
Srivenkataramana, T. *see* **Gurumurthy et al.**, 2005j:62027
(Stigler, Stephen M.) *see* **Bahadur, R. R.**, 2005a:62008
Storey, John D. (*with* Taylor, Jonathan E.; Siegmund, David O.) Acknowledgement of priority: "Strong control, conservative point estimation and simultaneous conservative consistency of false discovery rates: a unified approach" [J. R. Stat. Soc. Ser. B Stat. Methodol. **66** (2004), no. 1, 187–205; MR2035766 (2004k:62056)].
Strawderman, William E. *see* **Marchand, Éric**, 2005j:62067
Štulajter, František (*with* Witkovsky, Viktor) Estimation of variances in orthogonal finite discrete spectrum linear regression models. (English summary)
Sturmfels, Bernd *see* **Pachter, Lior**
Subramanyam, A. *see* **Kumar, Usha A.**
Sugden, Mark A. *see* **Whyte, Jason M. et al.**, (2005a:62014)
Sul, Donggyu *see* **Mark, Nelson C. et al.**
Suljanović, Nermin *see* **Košir, Andrej et al.**, 2005c:62123
Sun, Gang[1] (*with* Cassandras, Christos G.; Panayiotou, Christos G.) Perturbation analysis of multiclass stochastic fluid models. (English summary) **2005i:60188**
Sun, Li Bin (*with* Fei, He Liang) Moment estimation of the three-parameter Weibull distribution under censored samples. (Chinese. English and Chinese summaries) **2005e:62133**
Sun, Wanlong (*with* Li, Hongzhe) Ascertainment-adjusted maximum likelihood estimation for the additive genetic gamma frailty model. (English summary)
Sundarraj, N. *see* **Gurumurthy et al.**, 2005j:62027
Sutradhar, Brajendra C. On exact quasilikelihood inference in generalized linear mixed models. (English summary)
Svishchuk, A. V. *see* **Ivanov, Anatoliĭ Fedorovich et al.**, 2005e:60118
Szatzschneider, Konrad *see* **Rempała, Grzegorz A.**, 2005a:62231
Tamminen, J. *see* **Haario, H. et al.**
Tanaka, Yoko (*with* Rao, Pejaver Vishwamber) A proportional hazards model for informatively censored survival times. (English summary)
Tang, Gong (*with* Little, Roderick J. A.; Raghunathan, Trivellore E.) Analysis of multivariate monotone missing data by a pseudolikelihood method. (English summary) (*see* **2005j:62008**)
Tasič, Jurij F. *see* **Košir, Andrej et al.**, 2005c:62123
Tavaré, Simon Ancestral inference in population genetics. **2005i:62155**
Tax, D. M. J. *see* **van der Heijden, F. et al.**, 2005h:62004
Taylor, Jeremy M. G. *see* **Yu, Menggang et al.**
Taylor, Jonathan E. *see* **Storey, John D. et al.**
Tempo, Roberto (*with* Calafiore, Giuseppe; Dabbene, Fabrizio) ★ Randomized algorithms for analysis and control of uncertain systems. **2005m:93003**
Tesaříková, Eva *see* **Kubáček, Lubomír**
Teterukovskiy, Alex *see* **Ranneby, Bo et al.**, 2005k:62148
Thierry, É. *see* **Pronzato, Luc et al.**, (2005f:62009)
Thonemann, Ulrich W. *see* **Zhu, Kaijie**, 2005b:62223
Tian, Yu Bin (*with* Li, Guo Ying[1]; Yang, Jie[4]) Confidence lower limits for response probabilities under the logistic response model. (English summary) **2005a:62120**
Tian, Zheng *see* **Wen, Xian Bin et al.**, 2005m:62069
Tikhov, M. S. Statistical estimation based on interval censored data. (English summary) (*see* **2005d:62008**)
Timmer, Jens *see* **Voss, Henning U. et al.**, 2005c:93103
Tong, Howell *see* **Xia, Yingcun et al.**, 2005c:62069
Tornøe, Christoffer Wenzel (*with* Jacobsen, Judith L.; Madsen, Henrik O.) Grey-box pharmacokinetic/pharmacodynamic modelling of a euglycaemic clamp study. (English summary) **2005c:92015**
Traat, Imbi *see* **Dunajeva, Olga et al.**, 2005c:62100
Trandafir, Romică *see* **Mierluș-Mazilu, Ion et al.**, 2005h:62281
Trendafilov, Nickolay T. Dynamical system approach to factor analysis parameter estimation. (English summary)
Trojani, F. *see* **Ortelli, C.**, (2005c:62006)
Troxel, Andrea B. (*with* Ma, Guoguang; Heitjan, Daniel F.) An index of local sensitivity to nonignorability. (English summary)
Tsai, Min-Hsiao (*with* Zen, Mei-Mei) Criterion-robust optimal designs for model discrimination and parameter estimation: multivariate polynomial regression case. (English summary) **2005a:62175**
— *see also* **Zen, Mei-Mei**
Tsai, Pi-Wen (*with* Gilmour, Steven G.; Mead, Roger) Some new three-level orthogonal main effects plans robust to model uncertainty. (English summary)
Tsao, C. Andy (*with* Tseng, Yu-Ling) A statistical treatment of the problem of division. (English summary) **2005e:62044**

Tseng, Yu-Ling *see* **Tsao, C. Andy**, 2005e:62044
Tsiatis, Anastasios A. (*with* Ma, Yanyuan) Locally efficient semiparametric estimators for functional measurement error models. (English summary)
Tsodikov, Alexander D. *see* **Boucher, Kenneth M. et al.**, (2005d:62008)
Tuerlinckx, Francis (*with* Rijmen, Frank; Molenberghs, Geert; Verbeke, Geert; Briggs, Derek; Van den Noortgate, Wim; Meulders, Michel; De Boeck, Paul) Estimation and software. (*see* **2005f:62006**)
Turnbull, Bruce W. *see* **Jiang, Wenxin**, (2005j:62008)
Tutz, Gerhard Generalized semiparametrically structured mixed models. (English summary)
Tuul, Marek *see* **Mõls, Tõnu**
Urga, Giovanni *see* **Barone Adesi, Giovanni et al.**
Utev, Sergei *see* **Becker, Niels G.**, (2005b:62009)
Vajda, Igor *see* **Liese, Friedrich**, 2005g:62049
Vandekerkhove, Pierre Consistent and asymptotically normal parameter estimates for hidden Markov mixtures of Markov models. (English summary) **2005h:62222**
Van den Noortgate, Wim *see* **Tuerlinckx, Francis et al.**, (2005f:62006)
Vansteelandt, S. (*with* Goetghebeur, E.) Using potential outcomes as predictors of treatment activity via strong structural mean models. (English summary)
Van Zuijlen, Martien C. A. *see* **Baran, Sándor et al.**, 2005j:62123
Varga, Katalin *see* **Arató, Mátyás et al.**, 2005i:62122
Vera-Hernández, Marcos *see* **Romeu, Andrés**
Verbeke, Geert *see* **Tuerlinckx, Francis et al.**, (2005f:62006)
(Vidyasagar, M.) *see* **Tempo, Roberto et al.**, 2005m:93003
Vladimirescu, Ion (*with* Iaşinschi, Adrian) Estimating Prob$\{Y < X\}$ in the case of the power distribution. (English summary) **2005j:62032**
Vodovotz, Yoram *see* **Clermont, Gilles et al.**, (2005i:62003)
Voss, Henning U. (*with* Timmer, Jens; Kurths, Jürgen) Nonlinear dynamical system identification from uncertain and indirect measurements. (English summary) **2005c:93103**
Wan, Alan T. K. *see* **Akdeniz, Fikri et al.**, 2005e:62101
Wang, De Hui (*with* Song, Li Xin[1]; Shi, Ning-Zhong) Estimation and testing for the parameters of AR(p)-ARCH(q) under ordered restriction. **2005k:62218**
Wang, Gang *see* **Guo, Wei Juan et al.**, 2005k:62144
Wang, Kuo-Hsiung (*with* Chen, Sheau-Chyi; Ke, Jau-Chuan) Maximum likelihood estimates and confidence intervals of an M/M/R/N queue with balking and heterogeneous servers. (English summary)
Wang, Li Hong[1] Asymptotics of estimates in constrained nonlinear regression with long-range dependent innovations. (English summary) **2005j:62137**
Wang, Mei-Cheng *see* **Huang, Chiung-Yu**, 2005g:62175
Wang, Qi-Hua (*with* Härdle, Wolfgang K.) Empirical likelihood-based dimension reduction inference for linear error-in-responses models with validation study. (English summary) **2005m:62137**
Wang, Xueqin Asymptotics of the Theil-Sen estimator in the simple linear regression model with a random covariate. (English summary) **2005k:62171**
Wang, Yan Hua[1] (*with* He, Shu Yuan; Mei, Chang Lin) The Fisher information in left truncated data. (Chinese. English and Chinese summaries) **2005e:62010**
Wang, Zhi Zhong[2] (*with* Hu, Xue Mei) Admissibility of linear estimators in a growth curve model with respect to an incomplete ellipsoidal restriction. (Chinese. English and Chinese summaries)
Wang, Zuoheng *see* **Wu, Rongling et al.**
Ward, Rabab Kreidieh *see* **Xiao, Yegui et al.**
Watanabe, Michiko Latent structure model and the EM algorithm. (*see* **2005f:62005**)
— *see also* **EM algorithm and related statistical models**, 2005f:62005
Wefelmeyer, Wolfgang *see* **Müller, Ursula U. et al.**, 2005m:62082 *and* **Greenwood, Priscilla E. et al.**, (2005d:62008)
Wellner, Jon A. (*with* Zhang, Ying[6]; Liu, Hao[4]) A semiparametric regression model for panel count data: when do pseudo-likelihood estimators become badly inefficient? (English summary) (*see* **2005j:62008**)
Wen, Xian Bin (*with* Tian, Zheng; Lin, Wei; Yang, Zheng) Bootstrap approximation of parameters in a damped exponential signal model. (Chinese. English and Chinese summaries) **2005m:62069**
Wendt, Heide (*with* Kahle, Waltraud) On parameter estimation for a position-dependent marking of a doubly stochastic Poisson process. (English summary) (*see* **2005d:62008**)
Weron, Rafał Computationally intensive value at risk calculations. (*see* **2005g:62004**)
Whittemore, Alice S. Estimating genetic association parameters from family data. (English summary) **2005a:62241**
Whyte, Jason M. (*with* Sugden, Mark A.; Abbott, Geoffrey D.; Metcalfe, Andrew V.; Pearce, Charles E. M.) Estimation of parameters in pyrolysis kinetics. (English summary) (*see* **2005a:62014**)
Wilczyński, Maciej Minimax estimation in the linear model with a relative squared error. (English summary) **2005h:62178**
Willmot, Gordon E. *see* **Klugman, Stuart A. et al.**, 2005f:62003
Windmeijer, Frank A finite sample correction for the variance of linear efficient two-step GMM estimators. (English summary)
Winson, Mike *see* **Pritchard, Leighton et al.**
Witkovsky, Viktor *see* **Štulajter, František**
Wiuf, Carsten *see* **Hein, Jotun et al.**, 2005m:92021
Wolf, Roland *see* **Schneeweiss, Hans et al.**, 2005b:62144
Wolsztynski, É. *see* **Pronzato, Luc et al.**, (2005f:62009)
(Wong, Wing Hung) *see* **Bahadur, R. R.**, 2005a:62008
Wong, Wing-Keung (*with* Bian, Guorui) Estimating parameters in autoregressive models with asymmetric innovations. (English summary) **2005i:62121**
Wood, Graham R. *see* **Lai, C. D. et al.**, 2005c:62025
Wood, Simon N. Stable and efficient multiple smoothing parameter estimation for generalized additive models. (English summary)
Wozniak, Michal Application of the confidence measure in knowledge acquisition process. (English summary) (*see* **2005g:00014**)
Wu, Colin O. (*with* Yu, Kai F.) Regression models for the analysis of longitudinal data. (*see* **2005c:62003**)
Wu, Du-zhi *see* **Peng, Zuo-xiang**
Wu, Hulin (*with* Zhao, Shoujun) Statistical models and methods in infectious diseases. (*see* **2005c:62003**)
Wu, Lang Exact and approximate inferences for nonlinear mixed-effects models with missing covariates. (English summary)
Wu, Li Ming[1] *see* **Lei, Liangzhen**, 2005k:62102
Wu, Rongling (*with* Ma, Chang-Xing; Lin, Min[2]; Wang, Zuoheng; Casella, George) Functional mapping of quantitative trait loci underlying growth trajectories using a transform-both-sides logistic model. (English summary)
Wu, Xiao Gang *see* **Liu, Ling[1] et al.**, 2005d:94217
Wulff, Shaun S. (*with* Birkes, D.) Minimum variance unbiased invariant estimation of variance components under normality. (English summary) **2005m:62138**
Xia, Yingcun (*with* Zhang, Wenyang; Tong, Howell) Efficient estimation for semivarying-coefficient models. (English summary) **2005c:62069**
Xiao, Yegui (*with* Ikuta, Akira; Ma, Liying; Xu, Li[1]; Ward, Rabab Kreidieh) Statistical properties of the LMS Fourier analyzer in the presence of frequency mismatch. (English summary)
Xiao, Zhi Hong *see* **Huang, Chao et al.**, 2005g:62126
Xie, Tian Fa (*with* Zhang, Zhong Zhan) Test and estimation improvement for parameters in a clinical trial model. (Chinese. English and Chinese summaries) **2005j:62206**
— (*with* Zhang, Zhong Zhan) Identifiability of models for clinical trials with noncompliance. (English summary)
(Xu, Daming) *see* **Bahadur, R. R.**, 2005a:62008
Xu, Li[1] *see* **Xiao, Yegui et al.**
Yakir, Benjamin *see* **Dragalin, Vladimir et al.**, 2005j:62161
Yakovlev, Andrei Yur'evich *see* **Boucher, Kenneth M. et al.**, (2005d:62008)
Yamaguchi, Kazunori[2] Robust model and the EM algorithm. (*see* **2005f:62005**)
— *see also* **EM algorithm and related statistical models**, 2005f:62005
Yan, Jun *see* **Fine, Jason P. et al.**, 2005d:62054
Yanagimoto, Takemi (*with* Ohnishi, Toshio[2]) Standardized posterior mode for the flexible use of a conjugate prior. (English summary)
Yanagisawa, Yukio Scaled density models for binary response data and their D- and D_s-optimal designs. (English summary)
Yang, Hsin-Chou *see* **Chao, Anne et al.**, (2005c:62003)
Yang, Jie[4] *see* **Tian, Yu Bin et al.**, 2005a:62120
Yang, Miin-Shen (*with* Chen, Hwei-Ming) Fuzzy class logistic regression analysis. (English summary)
Yang, Zhen Hai (*with* Cheng, Wei Hu) Approximate maximum likelihood estimation based on logistic distribution parameters of type II censored samples. (Chinese. English and Chinese summaries)
Yang, Zheng *see* **Wen, Xian Bin et al.**, 2005m:62069
Ye, Jimmy *see* **Shen, Xiaotong et al.**, 2005c:62011
Yeo, Geoffrey F. *see* **Khan, R. Nazim et al.**
Yeo, In-Kwon Variable selection and transformation in linear regression models. (English summary)
Yin, Guosheng (*with* Cai, Jianwen) Additive hazards model with multivariate failure time data. (English summary)
Ying, Zhiliang *see* **Lu, Wenbin**, 2005c:62063
Yip, Kay-Pong *see* **Ditlevsen, Susanne et al.**
Yip, Paul S. F. *see* **Liu, Li Ping[4]**, **2005f:62016** *and* **Chao, Anne et al.**, (2005c:62003)
Yitzhaki, Shlomo (*with* Schechtman, Edna) The Gini instrumental variable, or the "double instrumental variable" estimator. (English summary) **2005m:62197**
You, Jin Hong (*with* Chen, Gemai) Block external bootstrap in partially linear models with nonstationary strong mixing error terms. (English and French summaries) **2005k:62114**
— (*with* Zhou, Xian) Bootstrap of a semiparametric partially linear model with autoregressive errors. (English summary) **2005j:62090**
Young, G. Alastair *see* **Lee, Stephen M. S.**
Yu, Dan[1] *see* **Guo, Kui**, 2005i:62143
Yu, Kai F. *see* **Wu, Colin O.**, (2005c:62003)
Yu, Menggang (*with* Law, Ngayee J.; Taylor, Jeremy M. G.; Sandler, Howard M.) Joint longitudinal-survival-cure models and their application to prostate cancer. (English summary)
Yu, Sheng Hua Linear minimax estimators of estimable functions in a general Gauss-Markov model under the quadratic loss function. (Chinese. English and Chinese summaries) **2005c:62014**
— (*with* He, Can Zhi) Linear minimax estimators of estimable functions in a general Gauss-Markov model. (Chinese. English and Chinese summaries) **2005d:62020**
Yu, Xian Qun *see* **He, Chuan Fu et al.**, 2005h:62174
Yüksel, Güzin *see* **Akdeniz, Fikri et al.**, 2005e:62101
Zdorova-Cheminade, Olga *see* **Bagdonavičius, Vilijandas B. et al.**
Žele, Mina *see* **Juričić, Đani**
Zen, Mei-Mei (*with* Tsai, Min-Hsiao) Criterion-robust optimal designs for model discrimination and parameter estimation in Fourier regression models. (English summary)
— *see also* **Tsai, Min-Hsiao**, 2005a:62175
Zeng, Lin Rui (*with* Zhu, Zhong Yi; Mao, Shi Song) Influence analysis and outlier tests for a semiparametric generalized linear model. (Chinese. English and Chinese summaries) **2005h:62190**
Zhang, Ri Quan Estimators of parameters in a single index time series model. (Chinese. English and Chinese summaries) **2005k:62221**
Zhang, Wenyang *see* **Xia, Yingcun et al.**, 2005c:62069
Zhang, Xue Xin *see* **Fei, He Liang**, 2005h:62277
Zhang, Ying[6] *see* **Wellner, Jon A. et al.**, (2005j:62008)
Zhang, Zhong Zhan *see* **Xie, Tian Fa**, 2005j:62206
Zhao, Shoujun *see* **Wu, Hulin**, (2005c:62003)
Zheng, Gang[1] (*with* Gastwirth, Joseph L.) Fisher information in randomly sampled sib pairs and extremely discordant sib pairs in genetic analysis for a quantitative trait locus. (English summary)
Zhou, Hui Xin *see* **He, Chuan Fu et al.**, 2005h:62174
Zhou, Xian *see* **You, Jin Hong**, 2005j:62090

Zhou, Xiao-Hua Evaluation of diagnostic test's accuracy in the presence of verification bias. (*see* **2005c:62003**)
Zhu, Guangrui *see* **Lai, Tze Leung et al.**, (**2005c:62003**)
Zhu, Kaijie (*with* Thonemann, Ulrich W.) An adaptive forecasting algorithm and inventory policy for products with short life cycles. (English summary) **2005b:62223**
Zhu, Yiliang Dose-response modeling in health risk assessment. (English summary) (*see* **2005c:62003**)
Zhu, Yu *see* **Lin, Xiaodong**, (**2005i:62003**)
Zhu, Zhong Yi *see* **Zeng, Lin Rui et al.**, **2005h:62190**
Zocchi, Silvio Sandoval *see* **Bautista, Ezequiel Abraham López et al.**
Zou, Guangyong (*with* Donner, Allan) Confidence interval estimation of the intraclass correlation coefficient for binary outcome data. (English summary)
Zou, Guo Hua Admissible estimation for finite population when the parameter space is restricted [MR1894836 (2003d:62019)]. (Chinese. English and Chinese summaries)
van Zwet, Willem R. *see* **Fiocco, Marta**, **2005b:62175** *and* (**2005i:62005**)

Items listed otherwise than by author

Bibliography:
Bahadur, Raghu Raj *see* **Bahadur, R. R.**, **2005a:62008**
Biography:
Bahadur, Raghu Raj *see* **Bahadur, R. R.**, **2005a:62008**
EM algorithm and related statistical models ★ The EM algorithm and related statistical models. **2005f:62005**
Lecture Notes in Statistics *see* **Datta, Gauri Sankar**, **2005b:62004**

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Anh, V. V. (*with* Leonenko, N. N.; Sakhno, L. M.) On a class of minimum contrast estimators for fractional stochastic processes and fields. (English summary) **2005g:62046**
Baran, Sándor (*with* Pap, Gyula[1]; Van Zuijlen, Martien C. A.) Estimation of the mean of a Wiener sheet. (English summary) **2005k:62075**
Berrahou, Nawale (*with* El Himdi, Khalid) p-convergence des TRA estimateurs: modèle MA(q). (English and French summaries) [p-convergence of the TRA estimates: the MA(q) model] **2005d:62038**
Bose, Arup (*with* Sengupta, Debapriya) Strong consistency of minimum contrast estimators with applications. (English summary) **2005a:62068**
Chen, Xiru *see* **Liu, Jixue**, **2005j:62063**
Chichagov, V. V. Concerning asymptotic normality of a class of unbiased estimators in the case of absolutely continuous distributions. **2005e:62038**
Chiu, Grace (*with* Lockhart, Richard; Routledge, Richard) Asymptotic theory for bent-cable regression—the basic case. (English summary) **2005h:62084**
Chow, Mosuk *see* **Li, Runze**, **2005h:62088**
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Li, Runze (*with* Chow, Mosuk) Evaluation of reproducibility for paired functional data. (English summary) **2005h:62088**
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— (*with* Vajda, Igor) On $\sqrt{n}$-consistency and asymptotic normality of consistent estimators in models with independent observations. (English summary) **2005g:62049**
— (*with* Vajda, Igor) A general asymptotic theory of M-estimators. II. (English summary) **2005e:62040**
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Marriott, Paul (*with* Vos, Paul) On the global geometry of parametric models and information recovery. (English summary)
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Bai, Zhi-Dong (*with* Hu, Fei Fang) Asymptotics in randomized urn models. (English summary) **2005k:62055**
Balakrishnan, Narayanaswamy (*with* Kim, J.-A.) EM algorithm for type-II right censored bivariate normal data. (English summary) (*see* **2005d:62008**)
Baran, Sándor A consistent estimator for linear models with dependent observations. (English summary) **2005f:62108**
— (*with* Pap, Gyula[1]; Van Zuijlen, Martien C. A.) Asymptotic inference for an unstable spatial AR model. (English summary) **2005j:62123**
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Forrester, Jeffrey S. (*with* Hooper, William J.; Peng, Hanxiang; Schick, Anton) On the construction of efficient estimators in semiparametric models. (English summary) **2005b:62069**
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Yang, Ying[1] Asymptotics of M-estimation in non-linear regression. (English summary) **2005h:62083**
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Yoshida, Nakahiro *see* **Sakamoto, Yuji, 2005h:62221**
Yu, Shao Quan (*with* Zhao, Qian[3]; Li, Hong Wei[2]) Parameter estimation and its convergence properties of generalized Gaussian distribution. (Chinese. English and Chinese summaries) **2005j:62061**
Yuan, Ao (*with* Clarke, Bertrand) Asymptotic normality of the posterior given a statistic. (English and French summaries) **2005k:62080**
Zeng, Donglin Estimating marginal survival function by adjusting for dependent censoring using many covariates. (English summary) **2005g:62169**
Zhang, Zhong Zhan *see* **Xie, Tian Fa, 2005j:62206**
Zhao, Qian[3] *see* **Yu, Shao Quan et al., 2005j:62061**
Zheng, Gang[1] Some remarks on the Fisher information in ranked set samples. (English summary) **2005a:62037**
— *see also* **Modarres, Reza, 2005j:62055**
Zheng, Shu-Rong *see* **Shi, Ning-Zhong et al., 2005j:62068**
Zhou, Xian (*with* Sun, Jianguo; Sun, Liuquan) A uniform semiparametric approach for longitudinal data analysis. (English summary) **2005k:62098**
Zhu, Li-Xing *see* **Cui, Heng-jian et al., 2005h:62071** *and* **Xue, Liu Gen**

Items listed otherwise than by author

Bibliography:
Bahadur, Raghu Raj *see* **Bahadur, R. R., 2005a:62008**
Biography:
Bahadur, Raghu Raj *see* **Bahadur, R. R., 2005a:62008**
Lecture Notes in Statistics *see* **Datta, Gauri Sankar, 2005b:62004**

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Abdel-Hamid, Alaa H. *see* **AL-Hussaini, Essam K.**
Achcar, Jorge Alberto Bayesian analysis for structural equation models. (Portuguese. English and Portuguese summaries)
AL-Hussaini, Essam K. (*with* Abdel-Hamid, Alaa H.) Bayesian estimation of the parameters, reliability and hazard rate functions of mixtures under accelerated life tests. (English summary)
Ali, M. Masoom (*with* Woo, Jungsoo; Nadarajah, Saralees) Bayes estimators of the exponential distribution. (English summary)
Bandrivskyy, A. (*with* Luchinsky, D. G.; McClintock, P. V. E.; Smelyanskiy, V. N.; Stefanovska, A.) Inference of systems with delay and applications to cardiovascular dynamics. (English summary)
Bauwens, Luc (*with* Bos, Charles S.; van Dijk, Herman K.; van Oest, Rutger D.) Adaptive radial-based direction sampling: some flexible and robust Monte Carlo integration methods. (English summary)
Bekker, A. V. *see* **Yadavalli, V. S. S. et al.**
Berger, James O. (*with* Pericchi, Luis R.) Training samples in objective Bayesian model selection. (English summary) **2005e:62042**
Besag, Julian An introduction to Markov chain Monte Carlo methods. (English summary) (*see* **2005c:68009**)
Bos, Charles S. *see* **Bauwens, Luc et al.**
Brewer, K. R. W. *see* **Puza, Borek D. et al.**
Bursztyn, Dizza *see* **Steinberg, David M., 2005f:62047**
Cepeda, Edilberto C. (*with* Gamerman, Dani) Bayesian modeling of joint regressions for the mean and covariance matrix. (English summary)
Chang, In Hong (*with* Mukerjee, Rahul) Asymptotic results on the frequentist mean squared error of generalized Bayes point predictors. (English summary) **2005c:62048**
Chen, Cathy W. S. (*with* Lee, Jack C.; Lee, Hsiang-Yu; Niu, W. F.) Bayesian estimation for time-series regressions improved with exact likelihoods. (English summary)
Chen, Ming-Hui (*with* Ye, Keying) Bayesian methods. (*see* **2005c:62003**)
— (*with* He, Xuming; Shao, Qi-Man; Xu, Hai) A Monte Carlo gap test in computing HPD regions. (English summary) **2005a:62074**
— *see also* **Ibrahim, Joseph G. et al.**
Chernozhukov, Victor (*with* Hong, Han) Likelihood estimation and inference in a class of nonregular econometric models. (English summary) **2005g:62055**
Clarke, Bertrand *see* **Yuan, Ao, 2005k:62080**
Dagne, Getachew A. Hierarchical Bayesian analysis of correlated zero-inflated count data. (English summary)
Daniels, Michael J. A class of shrinkage priors for the dependence structure in longitudinal data. (English summary)
Dey, Dipak K. (*with* Wang, Yazhen) Wavelet modeling of priors on triangles. (English summary) **2005a:62075**
van Dijk, Herman K. *see* **Bauwens, Luc et al.**
Dong, Rui *see* **Xiao, Hao et al., 2005h:62094**
van Dyk, David A. (*with* Park, Taeyoung) Efficient EM-type algorithms for fitting spectral lines in high-energy astrophysics. (*see* **2005m:62005**)
— *see also* **Imai, Kosuke**
Eaton, Morris L. Evaluating improper priors and the recurrence of symmetric Markov chains: an overview. (English summary) **2005m:62062**
Eissa, Fathy H. *see* **Nassar, Manal M.**
El-Gohary, Awad I. (*with* Sarhan, Ammar M.) Estimations of the parameters in a three non-independent component series system subjected to sources of shocks. (English summary) **2005h:62091**
Feng, Jing *see* **Liu, Qi et al., 2005i:62056**
Fernández-Villaverde, Jesús (*with* Rubio-Ramírez, Juan Francisco) Comparing dynamic equilibrium models to data: a Bayesian approach. (English summary) **2005i:62055**
Fox, Jean-Paul (*with* Glas, Cees A. W.) Bayesian modification indices for IRT models. (English summary)
Fraser, Donald A. S. *see* **Reid, N. et al., (2005m:62007)**
Frühwirth-Schnatter, Sylvia Efficient Bayesian parameter estimation. (English summary) (*see* **2005c:62005**)
— *see also* **Otter, Th. et al., (2005b:62008)**
Gallizo Larraz, J. L. *see* **Salvador Figueras, Manuel et al.**
Gamerman, Dani *see* **Cepeda, Edilberto C.**
Gao, Li Feng (*with* Liu, Fu Sheng) The monitoring of Bayesian dynamic linear models without normal assumptions. (English and Chinese summaries)
Gargallo Valero, Pilar *see* **Salvador Figueras, Manuel et al.**
Geweke, John Getting it right: joint distribution tests of posterior simulators. (English summary)
Ghosh, Malay (*with* Kim, Dal Ho; Kim, Myung Joon) Asymptotic mean squared error of constrained James-Stein estimators. (English summary) **2005g:62056**
Gilardoni, Gustavo L. Accuracy of posterior approximations via χ^2 and harmonic divergences. (English summary)
Glas, Cees A. W. *see* **Fox, Jean-Paul**
(Godsill, Simon J.) *see* **Green, Peter J., (2005b:62009)**
Goldstein, Michael[1] (*with* Rougier, Jonathan) Probabilistic formulations for transferring inferences from mathematical models to physical systems. (English summary)
Green, Peter J. Trans-dimensional Markov chain Monte Carlo. (*see* **2005b:62009**)
Guihenneuc-Jouyaux, Chantal (*with* Rousseau, Judith) Laplace expansions in Markov chain Monte Carlo algorithms. (English summary) **2005k:62077**
Gutiérrez-Peña, Eduardo (*with* Muliere, Pietro) Conjugate priors represent strong pre-experimental assumptions. (English summary) **2005b:62058**
Hartigan, John A. Uniform priors on convex sets improve risk. (English summary) **2005d:62039**
He, Xuming *see* **Chen, Ming-Hui et al., 2005a:62074**
(Heikkinen, Juha) *see* **Green, Peter J., (2005b:62009)**
Hong, Han *see* **Chernozhukov, Victor, 2005g:62055**
de la Horra Navarro, J. (*with* Rodríguez-Bernal, María Teresa) Coherence of the posterior predictive p-value based on the posterior odds. (English summary) **2005a:62076**
— (*with* Rodríguez-Bernal, María Teresa) Bayesian model selection: a predictive approach with losses based on distances L^1 and L^2. (English summary)
Hoshino, Takahiro *see* **Shigemasu, Kazuo et al., (2005b:62010)**
Huang, Li Kun *see* **Xiao, Hao et al., 2005h:62094**
Ibrahim, Joseph G. (*with* Chen, Ming-Hui; Sinha, Debajyoti) Bayesian methods for joint modeling of longitudinal and survival data with applications to cancer vaccine trials. (English summary)
Imai, Kosuke (*with* van Dyk, David A.) A Bayesian analysis of the multinomial probit model using marginal data augmentation. (English summary)
Javed, Iftikhar Ahmed *see* **Upadhyay, Satyanshu Kumar et al.**
Joshi, Narayan Kumar *see* **Srivastava, Radhey Shyam et al.**
Kang, Sang Gil (*with* Kim, Dal Ho; Lee, Woo Dong) Noninformative priors for linear combination of the independent normal means. (English summary) **2005e:62043**

Karlis, Dimitris (*with* Lillestöl, Jostein) Bayesian estimation of NIG models via Markov chain Monte Carlo methods. (English summary)
Karunamuni, Rohana J. (*with* Zhang, Shunpu) Optimal linear Bayes and empirical Bayes estimation and prediction of the finite population mean. (English summary) **2005a:62077**
Kim, Dal Ho *see* **Kang, Sang Gil et al., 2005e:62043** *and* **Ghosh, Malay et al., 2005g:62056**
Kim, Myung Joon *see* **Ghosh, Malay et al., 2005g:62056**
Kim, Song-Ho Bayes predictive density for the elliptical linear model. (English summary) **2005k:62078**
Kolbjørnsen, Odd (*with* Omre, Henning) Bayesian inversion of piecewise affine operators in a Gaussian framework. (English summary)
Kumar, Vijay *see* **Srivastava, Radhey Shyam et al.**
Lauretto, Marcelo (*with* Pereira, Carlos Alberto de Bragança; Stern, Julio Michael; Zacks, Shelemyahu) Full Bayesian significance test applied to multivariate normal structure models. (English summary) **2005j:62065**
Lee, Hsiang-Yu *see* **Chen, Cathy W. S. et al.**
Lee, Jack C. *see* **Chen, Cathy W. S. et al.**
Lee, Sik-Yum (*with* Song, Xin-Yuan) Bayesian model comparison of nonlinear structural equation models with missing continuous and ordinal categorical data. (English summary)
Lee, Woo Dong *see* **Kang, Sang Gil et al., 2005e:62043**
Lillestöl, Jostein *see* **Karlis, Dimitris**
Liu, Ci Hua *see* **Xiao, Hao et al., 2005h:62094**
Liu, Fu Sheng *see* **Gao, Li Feng**
Liu, Qi (*with* Feng, Jing; Zhou, Jing Lun; Zhang, Jin Huai) The dynamic reliability growth evaluation for complex system based on Duane-LR model. (Chinese. English and Chinese summaries) **2005i:62056**
Luchinsky, D. G. *see* **Bandrivskyy, A. et al.**
Malinowska, Iwona (*with* Szynal, Dominik) On a family of Bayesian estimators and predictors for a Gumbel model based on the kth lower records. (English summary) **2005h:62092**
Manner, David (*with* Seaman, John W., Jr.; Young, Dean Max) Bayesian methods for regression using surrogate variables. (English summary)
McClintock, P. V. E. *see* **Bandrivskyy, A. et al.**
Mitter, Sanjoy K. (*with* Newton, Nigel J.) A variational approach to nonlinear estimation. (English summary) **2005a:62078**
Mukerjee, Rahul *see* **Chang, In Hong, 2005c:62048** *and* **Reid, N. et al., (2005m:62007)**
Muliere, Pietro *see* **Gutiérrez-Peña, Eduardo, 2005b:62058**
Murphy, Thomas Brendan Bayesian robustness for multivariate problems. (English summary) (*see* **2005a:62016**)
Nadarajah, Saralees *see* **Ali, M. Masoom et al.**
Naddeo, Stefania Exact Bayesian higher posterior density interval for the correlation coefficient of a normal bivariate distribution. (English summary)
Nassar, Manal M. (*with* Eissa, Fathy H.) Bayesian estimation for the exponentiated Weibull model. (English summary)
Negrín-Hernández, M. A. *see* **Vázquez-Polo, Francisco José**
Newton, Nigel J. *see* **Mitter, Sanjoy K., 2005a:62078**
Niu, W. F. *see* **Chen, Cathy W. S. et al.**
Nobile, Agostino On the posterior distribution of the number of components in a finite mixture. (English summary) **2005f:62046**
Oakley, Jeremy E. (*with* O'Hagan, Anthony) Probabilistic sensitivity analysis of complex models: a Bayesian approach. (English summary)
van Oest, Rutger D. *see* **Bauwens, Luc et al.**
O'Hagan, Anthony *see* **Oakley, Jeremy E.**
Ohmori, Takuya *see* **Shigemasu, Kazuo et al., (2005b:62010)**
Ohnishi, Toshio[2] *see* **Yanagimoto, Takemi**
Omre, Henning *see* **Kolbjørnsen, Odd**
O'Neill, Terence J. *see* **Puza, Borek D. et al.**
Otter, Th. (*with* Tüchler, R.; Frühwirth-Schnatter, Sylvia) Bayesian latent class metric conjoint analysis—a case study from the Austrian mineral water market. (English summary) (*see* **2005b:62008**)
Pan, Hong *see* **Wang, De Hui et al., 2005g:62057**
Park, Taeyoung *see* **van Dyk, David A., (2005m:62005)**
Pauw, J. *see* **Yadavalli, V. S. S. et al.**
Pereira, Carlos Alberto de Bragança *see* **Lauretto, Marcelo et al., 2005j:62065**
Pericchi, Luis R. *see* **Berger, James O., 2005e:62042**
Peshwani, Meena *see* **Upadhyay, Satyanshu Kumar et al.**
Pham-Gia, T. Bayesian inference. (*see* **2005j:62007**)
Plagnol, Vincent (*with* Tavaré, Simon) Approximate Bayesian computation and MCMC. (English summary) (*see* **2005b:65002**)
Podder, Chandan Kumer (*with* Roy, Manindra Kumar) Bayesian estimation of the parameter of Maxwell distribution under MLINEX loss function. (English summary)
— Comparison of two risk functions using the Pareto distribution. (English summary)
Pu, Xiao Long (*with* Xu, Jing) Comparison of two Bayesian models. (Chinese. English and Chinese summaries) **2005k:62079**
Puza, Borek D. (*with* Brewer, K. R. W.; O'Neill, Terence J.) Another posterior paradox. (English summary)
Rao, Arun Kumar *see* **Srivastava, Radhey Shyam et al.**
Reid, N. (*with* Mukerjee, Rahul; Fraser, Donald A. S.) Some aspects of matching priors. (English summary) (*see* **2005m:62007**)
Rodríguez-Bernal, María Teresa *see* **de la Horra Navarro, J., 2005a:62076**
Rougier, Jonathan *see* **Goldstein, Michael[1]**
Rousseau, Judith *see* **Guihenneuc-Jouyaux, Chantal, 2005k:62077**
Roverato, Alberto On the invariance of conditioning procedures for the specification of prior distributions for nested DAG models. (English summary) **2005c:62049**
Roy, Manindra Kumar *see* **Podder, Chandan Kumer**
Rubio-Ramírez, Juan Francisco *see* **Fernández-Villaverde, Jesús, 2005i:62055**
Salvador Figueras, Manuel (*with* Gallizo Larraz, J. L.; Gargallo Valero, Pilar) Bayesian inference in a matrix normal dynamic linear model with unknown covariance matrices. (English summary)
Sarhan, Ammar M. *see* **El-Gohary, Awad I., 2005h:62091**
Seaman, John W., Jr. *see* **Manner, David et al.**
Shao, Qi-Man *see* **Chen, Ming-Hui et al., 2005a:62074**
Shigemasu, Kazuo (*with* Hoshino, Takahiro; Ohmori, Takuya) Bayesian analysis of structural equation modeling. (English summary) (*see* **2005b:62010**)
Sinha, Debajyoti *see* **Ibrahim, Joseph G. et al.**
Smelyanskiy, V. N. *see* **Bandrivskyy, A. et al.**
Song, Xin-Yuan *see* **Lee, Sik-Yum**
Srivastava, Radhey Shyam (*with* Kumar, Vijay; Joshi, Narayan Kumar) Bayesian estimation of reliability for generalized Burr life time distribution under time censoring. (English summary)
— (*with* Kumar, Vijay; Rao, Arun Kumar) Bayesian estimation of the shape parameter and reliability of generalized Pareto distribution using precautionary loss function with censoring. (English summary)
Stefanovska, A. *see* **Bandrivskyy, A. et al.**
Steinberg, David M. (*with* Bursztyn, Dizza) Data analytic tools for understanding random field regression models. (English summary) **2005f:62047**
Stern, Julio Michael *see* **Lauretto, Marcelo et al., 2005j:62065**
Szynal, Dominik *see* **Malinowska, Iwona, 2005h:62092**
Tavaré, Simon *see* **Plagnol, Vincent, (2005b:65002)**
Torney, David C. Bayesian analysis of binary sequences. (English summary) **2005h:62093**
Triantafyllopoulos, Kostas Some limiting results for discount dynamic models. (English summary) **2005c:62050**
Tsao, C. Andy (*with* Tseng, Yu-Ling) A statistical treatment of the problem of division. (English summary) **2005e:62044**
Tseng, Yu-Ling *see* **Tsao, C. Andy, 2005e:62044**
Tüchler, R. *see* **Otter, Th. et al., (2005b:62008)**
Upadhyay, Satyanshu Kumar (*with* Javed, Iftikhar Ahmed; Peshwani, Meena) Bayesian analysis of generalized four-parameter Burr distribution via Gibbs sampler. (English summary)
Vázquez-Polo, Francisco José (*with* Negrín-Hernández, M. A.) Incorporating patients' characteristics in cost-effectiveness studies with clinical trial data: a flexible Bayesian approach. (English and Catalan summaries)
Verlinda, Jeremy A. A Bayesian analysis of tree structure specification in nested logit models. (English summary)
Wang, De Hui (*with* Zhao, Shi Shun; Pan, Hong) Statistics inferences of the number of psychological state under entropy loss function. (Chinese. English and Chinese summaries) **2005g:62057**
Wang, Yazhen *see* **Dey, Dipak K., 2005a:62075**
Winkelmann, Rainer Bayesian analysis of econometric models for count data: a survey. (English summary) (*see* **2005b:62008**)
Woo, Jungsoo *see* **Ali, M. Masoom et al.**
Xiao, Hao (*with* Liu, Ci Hua; Dong, Rui; Huang, Li Kun) Test of outliers by Bayesian method. (Chinese. English and Chinese summaries) **2005h:62094**
Xu, Hai *see* **Chen, Ming-Hui et al., 2005a:62074**
Xu, Jing (*with* Zheng, Zhong Guo) Bayes estimation of causal effect for a counterfactural model. (English and Chinese summaries)
— *see also* **Pu, Xiao Long, 2005k:62079**
Yadavalli, V. S. S. (*with* Bekker, A. V.; Pauw, J.) Bayesian study of a two-component system with common-cause shock failures. (English summary)
Yanagimoto, Takemi (*with* Ohnishi, Toshio[2]) Standardized posterior mode for the flexible use of a conjugate prior. (English summary)
Ye, Keying *see* **Chen, Ming-Hui, (2005c:62003)**
Young, Dean Max *see* **Manner, David et al.**
Yuan, Ao (*with* Clarke, Bertrand) Asymptotic normality of the posterior given a statistic. (English and French summaries) **2005k:62080**
Zacks, Shelemyahu *see* **Lauretto, Marcelo et al., 2005j:62065**
Zhang, Jin Huai *see* **Liu, Qi et al., 2005i:62056**
Zhang, Shunpu *see* **Karunamuni, Rohana J., 2005a:62077**
Zhao, Shi Shun *see* **Wang, De Hui et al., 2005g:62057**
Zheng, Zhong Guo *see* **Xu, Jing**
Zhou, Jing Lun *see* **Liu, Qi et al., 2005i:62056**

Items with secondary classifications in 62F15

Abraham, Christophe (*with* Cadre, Benoît) Asymptotic global robustness in Bayesian decision theory. (English summary) **2005f:62011**
Ackerman, Joseph J. H. *see* **Goodman, James A. et al., (2005c:62004)**
Aczél, János The associativity equation re-revisited. (English summary) (*see* **2005c:62004**)
Aitchison, John (*with* Kay, Jim W.; Lauder, Ian J.) ★ Statistical concepts and applications in clinical medicine.
Akahira, Masafumi *see* **Maihara, Hirosuke**
Al-Akaidi, Marwan ★ Fractal speech processing. **2005g:94012**
Aldridge, Gwen (*with* Bowman, Dale) Bayesian bootstrap methods for developmental toxicity studies. (English summary)
Allemani, Claudia *see* **Berzuini, Carlo**
Amaral-Turkman, M. Antónia *see* **Silva, Giovani L.**
Andrieu, Christophe *see* **Vermaak, Jaco et al.**
Angers, Jean-François (*with* Delampady, Mohan) Fuzzy sets in hierarchical Bayes and robust Bayes inference. (English summary)
Bad-Dumitrescu, Monica E. (*with* Panaite, Victorina) Complete Neyman-Bayes estimation procedures for the mean of a normal distribution. (English summary) **2005b:62059**
Bae, Sejong *see* **Peschell, K. J. et al.**
Baggeroer, Arthur B. *see* **Xu, Wen[2] et al., 2005g:94025**
Baier, Daniel (*with* Polasek, Wolfgang) Market simulation using Bayesian procedures in conjoint analysis. (English summary) (*see* **2005b:62008**)
Bansal, Naveen K. (*with* Mieschke, Klaus J.) Simultaneous selection and estimation of the best treatment with respect to a control in a general linear model. (English summary) **2005m:62052**
Bartolucci, A. A. *see* **Peschell, K. J. et al.**

Bassan, Bruno (*with* Scarsini, Marco; Zamir, Shmuel) Some interactive decision problems emerging in statistical games. (English summary) **2005a:62028**
Bekker, A. V. *see* **Mostert, P. J. et al.**
Bell, Bradley M. (*with* Pillonetto, Gianluigi) Estimating parameters and stochastic functions of one variable using nonlinear measurement models. (English summary) **2005b:62052**
Bennett, Nicholas N. (*with* Malinverno, Alberto) Fast model updates using wavelets. (English summary) **2005i:65231**
Berger, James O. (*with* De Oliveira, Victor; Sansó, Bruno; Ren, Cuirong; Wittig, Timothy A.) Correction: "Objective Bayesian analysis of spatially correlated data" [J. Amer. Statist. Assoc. **96** (2001), no. 456, 1361–1374; MR1946582 (2003j:62088)]. **2005a:62138**
— (*with* Molina, German) Posterior model probabilities via path-based pairwise priors. (English summary)
Berzuini, Carlo (*with* Gilks, Walter R.) Particle filtering methods for dynamic and static Bayesian problems. (*see* **2005b:62009**)
— (*with* Allemani, Claudia) Effectiveness of potent antiretroviral therapy on progression of human immunodeficiency virus: Bayesian modelling and model checking via counterfactual replicates. (English summary)
Biedermann, S. (*with* Dette, Holger; Pepelyshev, Andrey) Maximin optimal designs for a compartmental model. (English summary) **2005g:62132**
Boguslavskiĭ, I. A. Algorithms of a linear estimation of a poorly worded matrix and errors of observations—uncertain functions of time. (English summary)
Bolfarine, Heleno *see* **Tojeiro, Cynthia A. V. et al.**
Boratyńska, Agata Two-point priors and minimax estimation of a bounded parameter under convex loss. (English summary) **2005m:62014**
Bowman, Dale *see* **Aldridge, Gwen**
Boys, Richard J. (*with* Henderson, Daniel A.) A Bayesian approach to DNA sequence segmentation. (English summary)
Bretthorst, G. Larry *see* **Merritt, Matthew E. et al.**, (**2005c:62004**) *and* **Goodman, James A. et al.**, (**2005c:62004**)
Briggs, Derek *see* **Tuerlinckx, Francis et al.**, (**2005f:62006**)
Burgess, Shawn *see* **Merritt, Matthew E. et al.**, (**2005c:62004**)
Cadre, Benoît *see* **Abraham, Christophe**, **2005f:62011**
Calder, C. *see* **Dunson, David B. et al.**
Candolo, Cecilia A simulation study incorporating uncertainty in the selection of models in linear regression. (Portuguese. English and Portuguese summaries)
Capitanio, Antonella (*with* Conti, Pier Luigi) A Bayesian nonparametric approach to the estimation of the adjustment coefficient, with applications to insurance and telecommunications. (English summary) **2005g:62062**
Casella, George *see* **Robert, Christian P.**, **2005d:62006** *and* **Moreno Bas, Elías et al.**, **2005k:62169**
Caticha, Ariel (*with* Preuss, Roland) Entropic priors. (English summary) (*see* **2005c:62004**)
Center, Julian L., Jr. Blind source separation, independent component analysis, and pattern classification—connections and synergies. (English summary) (*see* **2005c:62004**)
Chaganty, N. Rao *see* **Mav, Deepak**
Chen, Jie[10] (*with* Sarkar, Sanat Kumar) Multiple testing of response rates with a control: a Bayesian stepwise approach. (English summary) **2005e:62027**
Chen, Ming-Hui (*with* Ibrahim, Joseph G.; Sinha, Debajyoti) A new joint model for longitudinal and survival data with a cure fraction. (English summary)
— *see also* **Sinha, Debajyoti et al.**, (**2005i:62004**)
Cheng, Yi Ming *see* **Zhao, Hai Bing**, **2005e:62007**
Chib, Siddhartha (*with* Jeliazkov, Ivan) Accept-reject Metropolis-Hastings sampling and marginal likelihood estimation. (English summary)
Chikobvu, D. *see* **van der Merwe, Abraham Johannes**, **2005k:62234**
Choy, S. T. Boris (*with* Walker, Stephen G.) The extended exponential power distribution and Bayesian robustness. (English summary) **2005b:62065**
Chung, Younshik (*with* Kim, Chansoo) Measuring robustness for weighted distributions: Bayesian perspective. (English summary) **2005a:62082**
(Clifford, Peter) *see* **Berzuini, Carlo**, (**2005b:62009**)
Coles, Stuart *see* **Sisson, Scott**
Consonni, Guido (*with* Veronese, Piero; Gutiérrez-Peña, Eduardo) Reference priors for exponential families with simple quadratic variance function. (English summary) **2005d:62118**
Conti, Pier Luigi Approximated inference for the quantile function via Dirichlet processes. (English summary) **2005k:62086**
— *see also* **Capitanio, Antonella**, **2005g:62062**
Cook, John D. *see* **Thall, Peter F.**
Cornford, Dan (*with* Csató, Lehel; Evans, David John[3]; Opper, Manfred) Bayesian analysis of the scatterometer wind retrieval inverse problem: some new approaches. (English summary)
Craiu, Mariana Bayes estimators for a multivariate survival model. (English summary) **2005h:62022**
Cressie, Noel *see* **Frey, Jesse**, **2005b:62063**
Csató, Lehel *see* **Cornford, Dan et al.**
Dasgupta, Anirban[1] *see* **Tsai, Wen-Chi**, **2005j:62059**
Datta, Gauri Sankar (*with* Mukerjee, Rahul) ★ Probability matching priors: higher order asymptotics. **2005b:62004**
De Boeck, Paul *see* **Tuerlinckx, Francis et al.**, (**2005f:62006**)
Delampady, Mohan *see* **Angers, Jean-François**
De Oliveira, Victor Bayesian inference and prediction of Gaussian random fields based on censored data. (English summary)
— *see also* **Berger, James O. et al.**, **2005a:62138**
Dette, Holger *see* **Biedermann, S. et al.**, **2005g:62132**
Doucet, Arnaud *see* **Vermaak, Jaco et al.**
Duin, R. P. W. *see* **van der Heijden, F. et al.**, **2005h:62004**
Dunson, David B. (*with* Holloman, C.; Calder, C.; Gunn, L. H.) Bayesian modeling of multiple lesion onset and growth from interval-censored data. (English summary)
— *see also* **O'Brien, Sean M.**
van Dyk, David A. (*with* Kang, Hosung) Highly structured models for spectral analysis in high-energy astrophysics. (English summary)
Eaton, Morris L. (*with* Freedman, David A.) Dutch book against some 'objective' priors. (English summary) **2005j:62012**
El Chakik, Fadi (*with* Shahine, Ahmad; Jaam, Jihad Mohamad; Hasnah, Ahmad M.) An approach for constructing complex discriminating surfaces based on Bayesian interference of the maximum entropy. (English summary)
El-Gohary, Awad I. Bayesian estimation of the parameters in two non-independent component series system with dependent time failure rate. (English summary) **2005f:62155**
— Bayesian estimations of parameters in a three state reliability semi-Markov models. (English summary) **2005f:62156**
— Bayes estimation of parameters in a three non-independent component series system with time dependent failure rate. (English summary) **2005g:62174**
(Erickson, Gary J.) *see* **Bayesian inference and maximum entropy methods in science and engineering**, **2005c:62004**
Evans, David John[3] *see* **Cornford, Dan et al.**
Ewens, Warren J. (*with* Grant, Gregory R.) ★ Statistical methods in bioinformatics: an introduction. **2005g:92001**
Fahrmeir, Ludwig (*with* Gössl, C.; Hennerfeind, A.) Spatial smoothing with robust priors in functional MRI. (English summary) (*see* **2005b:62008**)
Fernández, Arturo J. On estimating exponential parameters with general type II progressive censoring. (English summary) **2005c:62180**
Fernández-Durán, Juan-José Modelling ground-level ozone concentration using copulas. (English summary) (*see* **2005c:62004**)
Fernández Llana, Carmen (*with* León, Carmelo J.; Steel, Mark F. J.; Vázquez-Polo, Francisco José) Bayesian analysis of interval data contingent valuation models and pricing policies. (English summary)
Fiori, Simone On self-consistency of cost functions for blind signal processing based on neural Bayesian estimators. (English summary) **2005d:94025**
Flynn, David B. (*with* Grose, Simone D.; Martin, Gael M.; Martin, Vance L.) Pricing Australian S&P200 options: a Bayesian approach based on generalized distributional forms. (English summary)
Freedman, David A. *see* **Eaton, Morris L.**, **2005j:62012**
Frees, Edward W. ★ Longitudinal and panel data.
Frey, Jesse (*with* Cressie, Noel) Some results on constrained Bayes estimators. (English summary) **2005b:62063**
Gamerman, Dani (*with* Moreira, Ajax R. B.) Multivariate spatial regression models. (English summary)
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Geng, Zhi *see* **Li, Kai Can**, **2005f:62094** *and* **Kuroda, Masahiro**, (**2005a:62014**)
Ghilardi, G. (*with* Orsini, N.) Random intercept linear models and estimators for the evaluation of educational systems. (Italian. English and Italian summaries)
Gianola, D. *see* **Rosa, G. J. M. et al.**
Gilks, Walter R. *see* **Berzuini, Carlo**, (**2005b:62009**)
Godsill, Simon J. *see* **Vermaak, Jaco et al.**
Goldstein, Michael[1] *see* **Little, John David et al.**
Gómez-Villegas, Miguel A. (*with* Maín, Paloma; Sanz, Luís; Navarro, Hilario) Asymptotic relationships between posterior probabilities and p-values using the hazard rate. (English summary) **2005a:62051**
Goodman, James A. (*with* Bretthorst, G. Larry; Kroenke, Christopher D.; Ackerman, Joseph J. H.; Neil, Jeffrey J.) Estimating the sodium ion diffusion coefficient in rat brain. (English summary) (*see* **2005c:62004**)
Gössl, C. *see* **Fahrmeir, Ludwig et al.**, (**2005b:62008**)
Grant, Gregory R. *see* **Ewens, Warren J.**, **2005g:92001**
Gregory, P. C. ★ Bayesian logical data analysis for the physical sciences.
Groenewald, Pieter C. N. (*with* Schoeman, A. C.) Bayesian detection and analysis of changing transition matrices of stationary Markov chains. (English summary)
Grose, Simone D. *see* **Flynn, David B. et al.**
Gunn, L. H. *see* **Dunson, David B. et al.**
de Gunst, M. C. M. (*with* Schouten, J. G.) Model selection and parameter estimation for ion channel recordings with an application to the K^+ outward-rectifier in barley leaf. (English summary) **2005k:92024**
(Gupta, Arjun K.) *see* **Handbook: Beta distribution and its applications**, **2005j:62007**
Gutiérrez-Peña, Eduardo *see* **Consonni, Guido et al.**, **2005d:62118**
Habeck, Michael (*with* Rieping, Wolfgang; Nilges, Michael) A new principle for macromolecular structure determination. (English summary) (*see* **2005c:62004**)
Haq, M. Safiul *see* **Thabane, L.**
Hasnah, Ahmad M. *see* **El Chakik, Fadi et al.**
van der Heijden, F. (*with* Duin, R. P. W.; de Ridder, D.; Tax, D. M. J.) ★ Classification, parameter estimation and state estimation. **2005h:62004**
den Heijer, Kees *see* **Little, John David et al.**
Henderson, Daniel A. *see* **Boys, Richard J.**
Hennerfeind, A. *see* **Fahrmeir, Ludwig et al.**, (**2005b:62008**)
Ho, Linda Lee Estimating structural reliability in the presence of covariates via Bayesian methods. (English summary)
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Huang, Li Kun (*with* Ye, Ying; Wang, Jin Tao; Xiao, Hao) Dynamic revised Bayesian method for the variance of shot firing dispersion. (Chinese. English and Chinese summaries) **2005h:62183**
Huang, Wên T'ao (*with* Wu, Chin-Chuan) Estimation of the largest success probability related to several binomial populations. (English summary) **2005h:62076**
Hurn, Merrilee (*with* Husby, Oddvar; Rue, Håvard) Advances in Bayesian image analysis. (*see* **2005b:62009**)
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Ibrahim, Joseph G. *see* **Chen, Ming-Hui et al.** *and* **Sinha, Debajyoti et al.**, (**2005i:62004**)
Ichir, Mahieddine M. (*with* Mohammad-Djafari, Ali) Bayesian wavelet based signal and image separation. (English summary) (*see* **2005c:62004**)
Insley, Robin (*with* Mok, Lucia; Swartz, Tim B.) Issues related to sports gambling. (English summary)

Jaam, Jihad Mohamad *see* **El Chakik, Fadi et al.**
Jaeger, Manfred A representation theorem and applications to measure selection and noninformative priors. (English summary) **2005k:60046**
(Jain, Anil K.) *see* **van der Heijden, F. et al., 2005h:62004**
Janssen, Rianne (*with* Schepers, Jan; Peres, Deborah) Models with item and item group predictors. (*see* **2005f:62006**)
Jeffrey, F. Mark *see* **Merritt, Matthew E. et al., (2005c:62004)**
Jeliazkov, Ivan *see* **Chib, Siddhartha**
Jeon, Yoonsook *see* **Stern, Hal S., (2005m:62005)**
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Jones, Galin L. (*with* Hobert, James P.) Sufficient burn-in for Gibbs samplers for a hierarchical random effects model. (English summary) **2005e:60160**
Kang, Hosung *see* **van Dyk, David A.**
Kateri, Maria (*with* Nicolaou, Anna; Ntzoufras, Ioannis) Bayesian inference for the RC(m) association model. (English summary)
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Lee, Michael D. A Bayesian analysis of retention functions. (English summary)
Lee, Peter M. ★ Bayesian statistics. **2005a:62005**
Lee, Sik-Yum (*with* Song, Xin-Yuan) Bayesian model selection for mixtures of structural equation models with an unknown number of components. (English summary)
— *see also* **Song, Xin-Yuan**
León, Carmelo J. *see* **Fernández Llana, Carmen et al.**
Lewis, Charles (*with* Thayer, Dorothy T.) A loss function related to the FDR for random effects multiple comparisons. (English summary)
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(van Lieshout, M. N. M.) *see* **Hurn, Merrilee et al., (2005b:62009)**
Lijoi, Antonio (*with* Prünster, Igor; Walker, Stephen G.) Extending Doob's consistency theorem to nonparametric densities. (English summary) **2005f:62066**
Little, John David (*with* Goldstein, Michael[1]; Jonathan, Philip; den Heijer, Kees) Spatio-temporal modelling of corrosion in an industrial furnance. (English summary)
Lo, Albert Y. (*with* Sazonov, Vyacheslav Vasil′evich) On the consistency of Bayesian procedures. (Russian. Russian summary) **2005h:62023**
Louzada-Neto, Francisco *see* **Perdoná, Gleici Castro et al.** *and* **Tojeiro, Cynthia A. V. et al.**
Maihara, Hirosuke (*with* Akahira, Masafumi) Weighted loss functions for set estimation and testing hypotheses. (English summary)
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Mallick, Madhuja (*with* Ravishanker, Nalini) Multivariate survival analysis with PVF frailty models. (English summary) (*see* **2005h:62008**)
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Marchand, Éric (*with* Perron, François) Improving on the mle of a bounded location parameter for spherical distributions. (English summary) **2005k:62067**
Martin, Gael M. *see* **Flynn, David B. et al.**
Martin, Vance L. *see* **Flynn, David B. et al.**
Mav, Deepak (*with* Chaganty, N. Rao) Bivariate models for identifying differentially expressed genes in microarray experiments. (English summary)
Merritt, Matthew E. (*with* Burgess, Shawn; Jeffrey, F. Mark; Sherry, A. Dean; Malloy, Craig; Bretthorst, G. Larry) TCA cycle turnover and serum glucose sources by automated Bayesian analysis of NMR spectra. (English summary) (*see* **2005c:62004**)
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Mostert, P. J. (*with* Bekker, A. V.; Yadavalli, V. S. S.) A two-unit intermittently used cold standby system from a Bayesian viewpoint assuming a Dirichlet prior. (English summary)
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(Nadarajah, Saralees) *see* **Handbook: Beta distribution and its applications, 2005j:62007**
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Peschell, K. J. (*with* Bae, Sejong; Shanmugam, R.; Bartolucci, A. A.; Singh, Karan P.) Therapeutic equivalence assessment (TEA) for exponential data. (English summary)
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Ralescu, Dan A. Fuzzy probability and some applications. **2005i:62012**
Ravishanker, Nalini *see* **Mallick, Madhuja, (2005h:62008)**
Rehman, Sirajur (*with* Ullah, Kamal; Kumar, Vinit) Bayesian availability analysis of a k-out-of-m system. (English summary)
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Rijmen, Frank *see* **Tuerlinckx, Francis et al., (2005f:62006)**
Robert, Christian P. (*with* Casella, George) ★ Monte Carlo statistical methods. **2005d:62006**
— Bayesian computational methods. (*see* **2005g:62004**)
Rosa, G. J. M. (*with* Gianola, D.; Padovani, C. R.) Bayesian longitudinal data analysis with mixed models and thick-tailed distributions using MCMC. (English summary)
Rotondi, Renata (*with* Varini, Elisa) Bayesian analysis of a marked point process: application in seismic hazard assessment. (English summary)
Rue, Håvard *see* **Hurn, Merrilee et al., (2005b:62009)**
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Schach, U. A type of Bayesian small area estimation for the analysis of cancer mortality data. (*see* **2005b:62008**)
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Shi, Xiaolin *see* **Shi, Yi Min et al., 2005k:62020**
Shi, Yi Min (*with* Gao, Shesheng; Shi, Xiaolin) Convergence rate of empirical Bayes estimation for two-dimensional truncation parameters under linex loss. (English summary) **2005k:62020**
Silva, Giovani L. (*with* Amaral-Turkman, M. Antónia) Bayesian analysis of an additive survival model with frailty. (English summary)
Simushkin, S. V. *see* **Volodin, I. N., 2005c:62035**
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— *see also* **Chen, Ming-Hui et al.**
Sisson, Scott (*with* Coles, Stuart) Modelling dependence uncertainty in the extremes of Markov chains. (English summary)
Skilling, John Using the Hilbert curve. (English summary) (*see* **2005c:62004**)
Song, Li Xin[1] *see* **Wang, Zhong Qiang et al., 2005g:62045**
Song, Xin-Yuan (*with* Lee, Sik-Yum) Bayesian analysis of two-level nonlinear structural equation models with continuous and polytomous data. (English summary)
— *see also* **Lee, Sik-Yum**
Steel, Mark F. J. *see* **Fernández Llana, Carmen et al.**
Stern, Hal S. (*with* Jeon, Yoonsook) Applying structural equation models with incomplete data. (*see* **2005m:62005**)
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Tax, D. M. J. *see* **van der Heijden, F. et al., 2005h:62004**
Thabane, L. (*with* Haq, M. Safiul) On the matrix-variate generalized hyperbolic distribution and its Bayesian applications. (English summary)

Thall, Peter F. (*with* Cook, John D.) Dose-finding based on efficacy-toxicity trade-offs. (English summary)
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Thonemann, Ulrich W. *see* **Zhu, Kaijie, 2005b:62223**
Tojeiro, Cynthia A. V. (*with* Louzada-Neto, Francisco; Bolfarine, Heleno) A Bayesian analysis for accelerated lifetime tests under an exponential power law model with threshold stress. (English summary)
— *see also* **Perdoná, Gleici Castro et al.**
Torres Ruiz, F. *see* **Moreno Bas, Elías et al., 2005k:62169**
(Tribus, Myron) *see* **Bayesian inference and maximum entropy methods in science and engineering, 2005c:62004**
(Trubuil, Alain) *see* **Hurn, Merrilee et al., (2005b:62009)**
Tsai, Wen-Chi (*with* Dasgupta, Anirban[1]) On the strong consistency, weak limits and practical performance of the ML estimate and Bayesian estimates of a symmetric domain in R^k. (English summary) **2005j:62059**
Tuerlinckx, Francis (*with* Rijmen, Frank; Molenberghs, Geert; Verbeke, Geert; Briggs, Derek; Van den Noortgate, Wim; Meulders, Michel; De Boeck, Paul) Estimation and software. (*see* **2005f:62006**)
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Vázquez-Polo, Francisco José *see* **Fernández Llana, Carmen et al.**
Verbeke, Geert *see* **Tuerlinckx, Francis et al., (2005f:62006)**
Vermaak, Jaco (*with* Andrieu, Christophe; Doucet, Arnaud; Godsill, Simon J.) Reversible jump Markov chain Monte Carlo strategies for Bayesian model selection in autoregressive processes. (English summary)
Veronese, Piero *see* **Consonni, Guido et al., 2005d:62118**
Verrall, R. J. A Bayesian generalized linear model for the Bornhuetter-Ferguson method of claims reserving. (English summary)
Vestrup, Eric M. (*with* Samaniego, Francisco J.) Bayesian versus frequentist shrinkage in multivariate normal problems. (English summary) **2005g:62044**
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Walker, Stephen G. Modern Bayesian asymptotics. (English summary)
— *see also* **Choy, S. T. Boris, 2005b:62065** *and* **Lijoi, Antonio et al., 2005f:62066**
Wang, De Hui *see* **Wang, Zhong Qiang et al., 2005g:62045**
Wang, Jin Tao *see* **Huang, Li Kun et al., 2005h:62183**
Wang, Zhong Qiang (*with* Wang, De Hui; Song, Li Xin[1]) Estimation of scale parameter of the normal distribution under a symmetric loss function. (Chinese. English and Chinese summaries) **2005g:62045**
Wei, Li Li (*with* Zhang, Wen Xiu) A Bayesian approach to multiple fuzzy hypothesis testing. (Chinese. English and Chinese summaries) **2005j:62018**
Wilson, Simon P. Modeling the reliability of hip replacements. (English summary) (*see* **2005a:62018**)
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Wu, Chin-Chuan *see* **Huang, Wên T'ao, 2005h:62076**
Xiao, Hao *see* **Huang, Li Kun et al., 2005h:62183**
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Zeng, Yong[1] Estimating stochastic volatility via filtering for the micromovement of asset prices. (English summary) **2005c:91069**
(Zhai, Yuxiang) *see* **Bayesian inference and maximum entropy methods in science and engineering, 2005c:62004**
Zhang, Wen Xiu *see* **Wei, Li Li, 2005j:62018**
Zhao, Hai Bing (*with* Cheng, Yi Ming) Statistical analysis of zero-failure data using memoryless property of exponential distribution. (Chinese. English and Chinese summaries) **2005e:62007**
Zhu, Kaijie (*with* Thonemann, Ulrich W.) An adaptive forecasting algorithm and inventory policy for products with short life cycles. (English summary) **2005b:62223**

Items listed otherwise than by author

Bayesian inference and maximum entropy methods in science and engineering ★ Bayesian inference and maximum entropy methods in science and engineering. **2005c:62004**
Handbook:
Beta distribution and its applications ★ Handbook of beta distribution and its applications. **2005j:62007**
Jackson Hole, WY ★ Bayesian inference and maximum entropy methods in science and engineering. **2005c:62004**
Lecture Notes in Statistics *see* **Datta, Gauri Sankar, 2005b:62004**

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Andrews, D. F. (*with* Fraser, Donald A. S.; Wong, Augustine) Computation of distribution functions from likelihood information near observed data. (English summary) **2005m:62063**
Bad-Dumitrescu, Monica E. (*with* Panaite, Victorina) Complete Neyman-Bayes estimation procedures for the mean of a normal distribution. (English summary) **2005b:62059**
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Bretz, Frank *see* **Strassburger, Klaus et al., (2005i:62006)**
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— (*with* Chang, Kuang-Chao) Conditional interval estimation for the ratio of extreme-value scale (Weibull shape) parameters following rejection of a pre-test. (English summary)
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Iyer, Hari K. (*with* Wang, C. M. Jack; Mathew, Thomas[1]) Models and confidence intervals for true values in interlaboratory trials. (English summary)
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Korkhin, A. S. A confidence region for regression parameters with inequality constraints. (Russian. English and Ukrainian summaries) **2005m:62065**
Lee, Yi-Tzu (*with* Mathew, Thomas[1]) Tolerance regions in multivariate linear regression. (English summary)
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Li, Guo Ying[1] *see* **Tian, Yu Bin et al., 2005j:62066** *and* **Li, Xin Min**
Li, Ji *see* **Chen, Jia Ding, 2005h:62095**
Li, Xin Min (*with* Li, Guo Ying[1]) Exact confidence intervals for a variance ratio in mixed linear models. (English and Chinese summaries)
Li, Xuefeng[2] *see* **Brown, Lawrence David**
Lin, Chien-Tai (*with* Wu, Sam J. S.; Balakrishnan, Narayanaswamy) Interval estimation of parameters of log-gamma distribution based on progressively censored data. (English summary)
Liu, Ying An (*with* Wei, Bo Cheng) Confidence regions in terms of statistical curvature for AR(q) nonlinear regression models. (English summary) **2005h:62097**
Lloyd, Chris J. *see* **Kabaila, Paul, 2005c:62051**
Loader, Catherine Smoothing: local regression techniques. (*see* **2005g:62004**)
Mahdi, Smail Two-sample conditional inference in a Weibull model. (English summary) **2005m:62066**
— Conditional confidence interval for the scale parameter of a Weibull distribution. (English summary) **2005a:62079**
Manski, Charles F. *see* **Imbens, Guido W., 2005h:62096**
Mathew, Thomas[1] *see* **Lee, Yi-Tzu; Roy, Anindya** *and* **Iyer, Hari K. et al.**
Morgenthaler, Stephan (*with* Staudte, Robert G.) Conditionally optimal weights of evidence. (English summary)
Panaite, Victorina *see* **Bad-Dumitrescu, Monica E., 2005b:62059**
Qin, Gengsheng *see* **Zhou, Xiao-Hua et al., 2005a:62080** *and* **2005f:62051**
Roy, Anindya (*with* Mathew, Thomas[1]) A generalized confidence limit for the reliability function of a two-parameter exponential distribution. (English summary)
Shi, Lei[2] *see* **Zhang, Wen Zhuan et al., 2005k:62081**
Shiraishi, Taka-aki Asymptotic confidence intervals based on M-procedures in one- and two-sample models. (English summary) **2005f:62049**
Singh, Parminder (*with* Gill, Amar Nath) Confidence intervals for the ratios of ranked scale parameters for censored data. (English summary) **2005b:62062**
Staudte, Robert G. *see* **Morgenthaler, Stephan**
Strassburger, Klaus (*with* Bretz, Frank; Hochberg, Yosef) Compatible confidence intervals for intersection union tests involving two hypotheses. (English summary) (*see* **2005i:62006**)
Taamouti, Mohamed *see* **Dufour, Jean-Marie, 2005m:62064**
Tajvidi, Nader Confidence intervals and accuracy estimation for heavy-tailed generalized Pareto distributions. (English summary)
Takada, Yoshikazu Asymptotic second-order efficiency of a two-stage procedure for estimating a linear function of normal means. (English summary) **2005f:62050**
Tian, Yu Bin (*with* Zhang, Ying; Li, Guo Ying[1]) Saddlepoint approximate confidence intervals for the p-th quantile of logistic response distribution. (Chinese. English and Chinese summaries) **2005j:62066**
Tsao, Min *see* **Zhou, Xiao-Hua et al., 2005a:62080**
Wang, C. M. Jack *see* **Iyer, Hari K. et al.**
Wang, Xue Ren *see* **Zhang, Wen Zhuan et al., 2005k:62081**
Wei, Bo Cheng *see* **Liu, Ying An, 2005h:62097**
Wong, Augustine *see* **Andrews, D. F. et al., 2005m:62063** *and* **Wu, Jian Rong[1]**
Wu, Jian Rong[1] (*with* Wong, Augustine) Improved interval estimation for the two-parameter Birnbaum-Saunders distribution. (English summary)
Wu, Sam J. S. *see* **Lin, Chien-Tai et al.**
Yang, Bo[5] (*with* Kolassa, John E.) Smooth and accurate multivariate confidence regions. (English summary)
Zhang, Wen Zhuan (*with* Shi, Lei[2]; Wang, Xue Ren) Local influence in condition indexes of data matrices. (Chinese. English and Chinese summaries) **2005k:62081**
Zhang, Ying *see* **Tian, Yu Bin et al., 2005j:62066**
Zhou, Xiao-Hua (*with* Tsao, Min; Qin, Gengsheng) New intervals for the difference between two independent binomial proportions. (English summary) **2005a:62080**
— (*with* Qin, Gengsheng) A new confidence interval for the difference between two binomial proportions of paired data. (English summary) **2005f:62051**

Items with secondary classifications in 62F25

Afify, El Desoky E. On the confidence interval of the Frechet distribution. (English summary)

Akahira, Masafumi (*with* Koike, Ken-ichi) Sequential interval estimation of a location parameter with the fixed width in the uniform distribution with an unknown scale parameter. (English summary) **2005m:62145**

Al-Saidy, Obaid (*with* Samawi, Hani M.; Al-Saleh, Mohammad F.) Inference on overlap coefficients under the Weibull distribution: equal shape parameter. (English summary)

Al-Saleh, Mohammad F. *see* **Al-Saidy, Obaid et al.**

Balakrishnan, Narayanaswamy (*with* Kim, J.-A.) EM algorithm for type-II right censored bivariate normal data. (English summary) (*see* **2005d:62008**)

Banks, H. T. (*with* Bokil, Vrushali A.) A computational and statistical framework for multidimensional domain acoustooptic material interrogation. (English summary) **2005j:78032**

Barhen, Jacob (*with* Protopopescu, Vladimir A.; Reister, David B.) Consistent uncertainty reduction in modeling nonlinear systems. (English summary) **2005h:93055**

Bokil, Vrushali A. *see* **Banks, H. T., 2005j:78032**

Caeiro, Frederico (*with* Gomes, M. Ivette) Bias reduction in the estimation of parameters of rare events. (English summary) **2005a:62083**

Corcoran, J. N. *see* **Schneider, Ulrike**

Datta, Gauri Sankar (*with* Mukerjee, Rahul) ★ Probability matching priors: higher order asymptotics. **2005b:62004**

Donner, Allan *see* **Zou, Guangyong**

Fei, He Liang (*with* Zhang, Xue Xin) Maximum likelihood estimate of step-stress accelerated life testing under exponential distribution. (Chinese. English and Chinese summaries) **2005h:62277**

Gomes, M. Ivette *see* **Caeiro, Frederico, 2005a:62083**

Guo, Huizhen *see* **Krishnamoorthy, K.**

Han, Ming Confidence limit of reliability parameters in the case of zero-failure data. (Chinese. English and Chinese summaries) **2005b:62206**

Härdle, Wolfgang K. *see* **Wang, Qi-Hua, 2005m:62137**

He, Xuming *see* **Kocherginsky, Masha et al.**

Kang, Sang Gil (*with* Kim, Dal Ho; Lee, Woo Dong) Noninformative priors for linear combination of the independent normal means. (English summary) **2005e:62043**

Kim, Dal Ho *see* **Kang, Sang Gil et al., 2005e:62043**

Kim, J.-A. *see* **Balakrishnan, Narayanaswamy, (2005d:62008)**

Kitsos, C. P. *see* **Müller, Christine H., 2005i:62110**

Kocherginsky, Masha (*with* He, Xuming; Mu, Yunming) Practical confidence intervals for regression quantiles. (English summary)

Koike, Ken-ichi *see* **Akahira, Masafumi, 2005m:62145**

Koivunen, V. *see* **Ollila, E., (2005c:62006)**

Krishnamoorthy, K. (*with* Guo, Huizhen) Assessing occupational exposure via the one-way random effects model with unbalanced data. (English summary)

Lee, Woo Dong *see* **Kang, Sang Gil et al., 2005e:62043**

Lejeune, Michel ★ Statistique—la théorie et ses applications. (French) [Statistics—theory and applications] **2005j:62003**

Logan, Brent R. *see* **Tamhane, Ajit C., 2005c:62034**

Meng, Guoming *see* **Zong, Xuping et al., 2005c:62128**

Mu, Yunming *see* **Kocherginsky, Masha et al.**

Mukerjee, Rahul *see* **Datta, Gauri Sankar, 2005b:62004**

Müller, Christine H. (*with* Kitsos, C. P.) Optimal design criteria based on tolerance regions. (English summary) **2005i:62110**

Mykland, Per Aslak Financial options and statistical prediction intervals. (English summary) **2005i:91065**

Ollila, E. (*with* Koivunen, V.) Robust ML-estimation of the transmitter location. (English summary) (*see* **2005c:62006**)

Potocký, Rastislav Approximate confidence regions for parameter subsets in a non-linear model. (English summary) **2005a:62153**

Protopopescu, Vladimir A. *see* **Barhen, Jacob et al., 2005h:93055**

Reister, David B. *see* **Barhen, Jacob et al., 2005h:93055**

Samawi, Hani M. *see* **Al-Saidy, Obaid et al.**

Schneider, Ulrike (*with* Corcoran, J. N.) Perfect sampling for Bayesian variable selection in a linear regression model. (English summary)

Shi, Ning-Zhong *see* **Wang, Xue Li et al.**

Solorzano, Eleanne *see* **Spurrier, John D., (2005i:62006)**

Spurrier, John D. (*with* Solorzano, Eleanne) Multiple comparisons with more than one control. (English summary) (*see* **2005i:62006**)

Tamhane, Ajit C. (*with* Logan, Brent R.) A superiority-equivalence approach to one-sided tests on multiple endpoints in clinical trials. (English summary) **2005c:62034**

Tao, Jian *see* **Wang, Xue Li et al.**

Timofeeva, G. A. Nonlinear confidence estimates for statistically uncertain systems. (Russian. Russian summary) **2005e:93095**

Tunaru, Radu *see* **Vladimirescu, Ion, 2005a:62054** *and* **2005d:62036**

Vladimirescu, Ion (*with* Tunaru, Radu) Estimation functions by confidence regions for inverse Gaussian distribution. (English summary) **2005d:62036**

— (*with* Tunaru, Radu) Estimation functions and uniformly most powerful tests for inverse Gaussian distribution. (English summary) **2005a:62054**

Wang, Hai Bin *see* **Zong, Xuping et al., 2005c:62128**

Wang, Qi-Hua (*with* Härdle, Wolfgang K.) Empirical likelihood-based dimension reduction inference for linear error-in-responses models with validation study. (English summary) **2005m:62137**

Wang, Xue Li (*with* Tao, Jian; Shi, Ning-Zhong) Stepwise method based on confidence bound and information incorporation for identifying the maximum tolerable dose. (English summary)

Watkins, A. J. On precision in maximum likelihood estimates for the Weibull distribution. (English summary)

Wei, Bo Cheng *see* **Zong, Xuping et al., 2005c:62128**

Zhang, Xue Xin *see* **Fei, He Liang, 2005h:62277**

Zong, Xuping (*with* Meng, Guoming; Wang, Hai Bin; Wei, Bo Cheng) Influence analysis on nonlinear measurement error models. (English and Chinese summaries) **2005c:62128**

Zou, Guangyong (*with* Donner, Allan) Confidence interval estimation of the intraclass correlation coefficient for binary outcome data. (English summary)

Items listed otherwise than by author

Lecture Notes in Statistics *see* **Datta, Gauri Sankar, 2005b:62004**

62F30 Inference under constraints

Bartolucci, F. (*with* Scaccia, L.) Testing for positive association in contingency tables with fixed margins. (English summary)

Calzolari, Giorgio (*with* Fiorentini, Gabriele; Sentana, Enrique) Constrained indirect estimation. (English summary) **2005d:62040**

Chaudhuri, Sanjay (*with* Perlman, Michael D.) On the bias and mean-square error of order-restricted maximum likelihood estimators. (English summary)

Cressie, Noel *see* **Frey, Jesse, 2005b:62063**

Fiorentini, Gabriele *see* **Calzolari, Giorgio et al., 2005d:62040**

Frey, Jesse (*with* Cressie, Noel) Some results on constrained Bayes estimators. (English summary) **2005b:62063**

Garren, Steven T. Improved estimation of medians subject to order restrictions in unimodal symmetric families. (English summary) **2005b:62064**

Guo, Jianhua *see* **Shi, Ning-Zhong et al., 2005j:62068**

Gupta, Arjun K. (*with* Sheena, Y.) Estimation of a multivariate normal covariance matrix under a certain structure. (English summary) **2005h:62098**

— *see also* **Sheena, Y., 2005c:62052**

He, Chuan Fu Expression of solution of regression problems that have inequality constraints in singular conditions. (Chinese. English and Chinese summaries) **2005f:62052**

Kubokawa, Tatsuya Minimaxity in estimation of restricted parameters. (English summary) **2005k:62082**

Marchand, Éric (*with* Strawderman, William E.) Estimation in restricted parameter spaces: a review. (English summary) **2005j:62067**

Perlman, Michael D. *see* **Chaudhuri, Sanjay**

Scaccia, L. *see* **Bartolucci, F.**

Sentana, Enrique *see* **Calzolari, Giorgio et al., 2005d:62040**

Sheena, Y. (*with* Gupta, Arjun K.) Estimation of the multivariate normal covariance matrix under some restrictions. (English summary) **2005c:62052**

— *see also* **Gupta, Arjun K., 2005h:62098**

Shi, Ning-Zhong (*with* Zheng, Shu-Rong; Guo, Jianhua) The restricted EM algorithm under inequality restrictions on the parameters. (English summary) **2005j:62068**

Strawderman, William E. *see* **Marchand, Éric, 2005j:62067**

Zheng, Shu-Rong *see* **Shi, Ning-Zhong et al., 2005j:62068**

Items with secondary classifications in 62F30

Ben-Tal, Aharon *see* **Eldar, Yonina C. et al., 2005h:93156**

Broniatowski, M. Estimation of the Kullback-Leibler divergence. (English summary) **2005b:62014**

Chen, Jia Ding (*with* Li, Ji) Lower confidence limits for structural reliability. (Chinese. English and Chinese summaries) **2005h:62095**

Chukova, Stefanka *see* **Wang, Dong Q. et al.**

Cysneiros, Francisco José A. (*with* Paula, Gilberto A.) One-sided tests in linear models with multivariate t-distribution. (English summary)

Eldar, Yonina C. (*with* Ben-Tal, Aharon; Nemirovskii, Arkadii) Robust mean-squared error estimation in the presence of model uncertainties. (English summary) **2005h:93156**

Fišerová, Eva Estimation in universal models with restrictions. (English summary) **2005k:62164**

Greenshtein, Eitan (*with* Ritov, Ya'acov) Persistence in high-dimensional linear predictor selection and the virtue of overparametrization. (English summary) **2005i:62102**

Hanson, Floyd B. (*with* Westman, John J.; Zhu, Zongwu) Multinomial maximum likelihood estimation of market parameters for stock jump-diffusion models. (English summary) **2005g:60131**

Hartigan, John A. Uniform priors on convex sets improve risk. (English summary) **2005d:62039**

He, Chuan Fu (*with* Zhou, Hui Xin; Yu, Xian Qun) L_2-estimators of contaminated data with nonlinear constraints. (Chinese. English and Chinese summaries) **2005h:62174**

Kessler, Mathieu (*with* Rahbek, Anders) Identification and inference for multivariate cointegrated and ergodic Gaussian diffusions. (English summary) **2005b:62121**

Lai, C. D. *see* **Wang, Dong Q. et al.**

Lee, Jay H. *see* **Robertson, Douglas G., 2005k:93247**

Li, Ji *see* **Chen, Jia Ding, 2005h:62095**

Mahata, Kaushik (*with* Söderström, Torsten) Improved estimation performance using known linear constraints. (English summary)

Marchand, Éric (*with* Perron, François) Improving on the mle of a bounded location parameter for spherical distributions. (English summary) **2005k:62067**

Mõls, Tõnu (*with* Nahtman, Tatyana) Reparameterization and invariant covariance matrices of factors in linear models. (English summary) **2005k:62168**

Nahtman, Tatyana *see* **Mõls, Tõnu, 2005k:62168**

Nemirovskii, Arkadii *see* **Eldar, Yonina C. et al., 2005h:93156**

Newey, Whitney K. Efficient semiparametric estimation via moment restrictions. (English summary) **2005i:62063**

Paula, Gilberto A. *see* **Cysneiros, Francisco José A.**

Perron, François *see* **Marchand, Éric, 2005k:62067**

Rahbek, Anders *see* **Kessler, Mathieu, 2005b:62121**

Ritov, Ya'acov *see* **Greenshtein, Eitan, 2005i:62102**

Robertson, Douglas G. (*with* Lee, Jay H.) On the use of constraints in least squares estimation and control. (English summary) **2005k:93247**

Sen, Pranab Kumar[1] *see* **Silvapulle, Mervyn J., 2005k:62004**

Silvapulle, Mervyn J. (*with* Sen, Pranab Kumar[1]) ★ Constrained statistical inference **2005k:62004**

Söderström, Torsten *see* **Mahata, Kaushik**

Wang, Dong Q. (*with* Chukova, Stefanka; Lai, C. D.) Reducing quadratic programming problem to regression problem: stepwise algorithm. (English summary)

Wang, Li Hong[1] Asymptotics of estimates in constrained nonlinear regression with long-range dependent innovations. (English summary) **2005j:62137**
Westman, John J. *see* **Hanson, Floyd B. et al., 2005g:60131**
Yu, Xian Qun *see* **He, Chuan Fu et al., 2005h:62174**
Zhou, Hui Xin *see* **He, Chuan Fu et al., 2005h:62174**
Zhu, Zongwu *see* **Hanson, Floyd B. et al., 2005g:60131**
Zou, Guo Hua Admissible estimation for finite population when the parameter space is restricted [MR1894836 (2003d:62019)]. (Chinese. English and Chinese summaries)

62F35 Robustness and adaptive procedures

Adrover, J. G. (*with* Yohai, Víctor J.) Bias behavior of the minimum volume ellipsoid estimate. (English summary) **2005g:62058**
— (*with* Maronna, Ricardo A.; Yohai, Víctor J.) Robust regression quantiles. (English summary) **2005d:62041**
— (*with* Zamar, Ruben H.) Bias robustness of three median-based regression estimates. (English summary) **2005e:62045**
Ando, Masakazu (*with* Kimura, Miyoshi) The maximum asymptotic bias of S-estimates for regression over the neighborhoods defined by certain special capacities. (English summary) **2005h:62099**
Avramidis, Antonios *see* **Zioutas, Georgios**
Bernholt, Thorsten (*with* Fischer, Paul A.) The complexity of computing the MCD-estimator. (English summary) **2005f:62053**
Besbeas, Panagiotis (*with* Morgan, Byron J. T.) Efficient and robust estimation for the one-sided stable distribution of index $\frac{1}{2}$. (English summary) **2005a:62081**
Bianco, Ana (*with* Boente, Graciela) Robust estimators in semiparametric partly linear regression models. (English summary) **2005d:62042**
Boente, Graciela (*with* Orellana, Liliana) Robust plug-in estimators in proportional scatter models. (English summary) **2005f:62054**
— *see also* **Bianco, Ana, 2005d:62042**
Branco, J. A. *see* **Oliveira, M. R. et al., (2005c:62006)**
Cantoni, Eva A robust approach to longitudinal data analysis. (English and French summaries) **2005d:62043**
Chen, Colin An adaptive algorithm for quantile regression. (English summary) (*see* **2005c:62006**)
Choy, S. T. Boris (*with* Walker, Stephen G.) The extended exponential power distribution and Bayesian robustness. (English summary) **2005b:62065**
Chung, Younshik (*with* Kim, Chansoo) Measuring robustness for weighted distributions: Bayesian perspective. (English summary) **2005a:62082**
Croux, C. *see* **Oliveira, M. R. et al., (2005c:62006)**
Durio, Alessandra (*with* Isaia, Ennio Davide) On robustness to outliers of parametric L_2 estimate criterion in the case of bivariate normal mixtures: a simulation study. (English summary) (*see* **2005c:62006**)
Engelen, S. (*with* Hubert, Mia; Vanden Branden, Karlien; Verboven, S.) Robust PCR and robust PLSR: a comparative study. (English summary) (*see* **2005c:62006**)
Fekri, M. (*with* Ruiz-Gazen, A.) Robust weighted orthogonal regression in the errors-in-variables model. (English summary) **2005g:62059**
Filzmoser, P. *see* **Oliveira, M. R. et al., (2005c:62006)**
Fischer, Paul A. *see* **Bernholt, Thorsten, 2005f:62053**
Giloni, Avi (*with* Padberg, Manfred) The finite sample breakdown point of l_1-regression. (English summary) **2005m:62067**
Hawkins, Douglas M. *see* **Olive, David J., 2005b:62066**
Hennig, Christian Breakdown points for maximum likelihood estimators of location-scale mixtures. (English summary) **2005h:62100**
Hubert, Mia *see* **Engelen, S. et al., (2005c:62006)**
Isaia, Ennio Davide *see* **Durio, Alessandra, (2005c:62006)**
Jajo, Nethal K. A review of robust regression and diagnostic procedures in linear regression. (English summary)
Juárez-Cerrillo, S. F. (*with* Schucany, William R.) Robust and efficient estimation for the generalized Pareto distribution. (English summary)
Kharin, A. Yu. Robustness in sequential discrimination of Markov chains under "contamination". (English summary) **2005d:62044**
Kharin, Yuriĭ (*with* Zenevich, D. V.) Robustness of statistical forecasting by autoregression model under distortions. (English summary) **2005d:62045**
— *see also* **Pashkevich, M. A., 2005h:62102**
Kim, Chansoo *see* **Chung, Younshik, 2005a:62082**
Kimura, Miyoshi *see* **Ando, Masakazu, 2005h:62099**
Maronna, Ricardo A. *see* **Adrover, J. G. et al., 2005d:62041**
Mašíček, Libor Optimality of the least weighted squares estimator. (English summary) **2005j:62069**
McDermott, Michael P. *see* **Natarajan, Rajeshwari et al.**
Meladze, Gamlet Information modelling in statistics. Semimartingale with small noise and robust parameter estimation. (English and Georgian summaries) **2005h:62101**
Morgan, Byron J. T. *see* **Besbeas, Panagiotis, 2005a:62081**
Morgenthaler, Stephan (*with* Welsch, R. E.; Zenide, A.) Algorithms for robust model selection in linear regression. (English summary) (*see* **2005c:62006**)
Mudholkar, Govind S. *see* **Natarajan, Rajeshwari et al.**
Natarajan, Rajeshwari (*with* Mudholkar, Govind S.; McDermott, Michael P.) Order restricted inference for the scale-like inverse Gaussian parameters. (English summary)
Olive, David J. (*with* Hawkins, Douglas M.) Robust regression with high coverage. (English summary) **2005b:62066**
Oliveira, M. R. (*with* Branco, J. A.; Croux, C.; Filzmoser, P.) Robust redundancy analysis by alternating regression. (English summary) (*see* **2005c:62006**)
Orellana, Liliana *see* **Boente, Graciela, 2005f:62054**
Ortelli, C. (*with* Trojani, F.) Robust efficient method of moments estimation. (English summary) (*see* **2005c:62006**)
Ozturk, Omer Robust joint estimation of location and scale parameters in ranked set samples. (English summary) **2005j:62070**
Padberg, Manfred *see* **Giloni, Avi, 2005m:62067**
Pashkevich, M. A. (*with* Kharin, Yuriĭ) Robust estimation and forecasting for beta-mixed hierarchical models of grouped binary data. (English summary) **2005h:62102**
Qu, Annie (*with* Song, Peter X.-K.) Assessing robustness of generalised estimating equations and quadratic inference functions. (English summary)
Randal, John A. (*with* Thomson, Peter J.) Maximum likelihood estimation for Tukey's three corners. (English summary) **2005g:62060**
Ruiz-Gazen, A. *see* **Fekri, M., 2005g:62059**
Salibian-Barrera, Matias Estimating the p-values of robust tests for the linear model. (English summary)
Schucany, William R. *see* **Juárez-Cerrillo, S. F.**
Scott, David W. Partial mixture estimation and outlier detection in data and regression. (English summary) (*see* **2005c:62006**)
Song, Peter X.-K. *see* **Qu, Annie**
Thomson, Peter J. *see* **Randal, John A., 2005g:62060**
Toma, Aida Robust estimations for multivariate Sinh^{-1}-normal distribution. (English summary) **2005m:62068**
Trojani, F. *see* **Ortelli, C., (2005c:62006)**
Vanden Branden, Karlien *see* **Engelen, S. et al., (2005c:62006)**
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Walker, Stephen G. *see* **Choy, S. T. Boris, 2005b:62065**
Welsch, R. E. *see* **Morgenthaler, Stephan et al., (2005c:62006)**
Yamaguchi, Kazunori[2] Robust model and the EM algorithm. (*see* **2005f:62005**)
Yohai, Víctor J. *see* **Adrover, J. G. et al., 2005d:62041** *and* **2005g:62058**
Zamar, Ruben H. *see* **Adrover, J. G., 2005e:62045**
Zenevich, D. V. *see* **Kharin, Yuriĭ, 2005d:62045**
Zenide, A. *see* **Morgenthaler, Stephan et al., (2005c:62006)**
Zioutas, Georgios Quadratic mixed integer programming models in minimax robust regression estimators. (English summary) (*see* **2005c:62006**)
— (*with* Avramidis, Antonios) Deleting outliers in robust regression with mixed integer programming. (English summary)

Items with secondary classifications in 62F35

Alam, Md. M. (*with* Imon, A. H. M. Rahmatullah; Nasser, M.; Rahman, Md. J.) Necessity for consideration of robustness in bootstrap estimation for location. (English summary)
Arslan, Olcay On the computation and finite sample behavior of the constrained M-estimates for multivariate location and scatter. (English summary)
— Convergence behavior of an iterative reweighting algorithm to compute multivariate M-estimates for location and scatter. (English summary) **2005a:62139**
Barbe, Ph. (*with* Broniatowski, M.) Blowing number of a distribution for a statistics and loyal estimators. (English summary) **2005m:62019**
Bashir, Shaheena (*with* Carter, E. M.) High breakdown mixture discriminant analysis. (English summary) **2005h:62165**
Ben-Tal, Aharon *see* **Eldar, Yonina C. et al., 2005h:93156**
Broniatowski, M. *see* **Barbe, Ph., 2005m:62019**
Caeiro, Frederico (*with* Gomes, M. Ivette) Bias reduction in the estimation of parameters of rare events. (English summary) **2005a:62083**
— *see also* **Gomes, M. Ivette et al., 2005g:62064**
Cai, T. Tony (*with* Low, Mark G.) An adaptation theory for nonparametric confidence intervals. (English summary) **2005h:62143**
Carter, E. M. *see* **Bashir, Shaheena, 2005h:62165**
Chen, Lin-An *see* **Huang, Jing-Ye et al., 2005a:62151**
Collins, J. R. (*with* Szatmari-Voicu, D.) Maximal asymptotic biases of M-estimators of location with preliminary scale estimates. (English summary) **2005e:62039**
Cui, Heng-jian *see* **Zuo, Yijun et al., 2005a:62073**
Cysneiros, Francisco José A. (*with* Paula, Gilberto A.) One-sided tests in linear models with multivariate t-distribution. (English summary)
Davies, P. Laurie (*with* Gather, Ursula) Robust statistics. (*see* **2005g:62004**)
Dimcevici-Poesina, Nicoleta On robust procedures for bioassays case fixed dose design. (English summary)
Dimova, Rositsa (*with* Neykov, Neyko) Application of the D-fullness technique for breakdown point study of the trimmed likelihood estimator to a generalized logistic model. (English summary) **2005a:62169**
Eldar, Yonina C. (*with* Ben-Tal, Aharon; Nemirovskii, Arkadii) Robust mean-squared error estimation in the presence of model uncertainties. (English summary) **2005h:93156**
Fang, Zhide (*with* Wiens, Douglas P.) Robust regression designs for approximate polynomial models. (English summary) **2005c:62130**
Figueiredo, Fernanda *see* **Gomes, M. Ivette et al., 2005g:62064**
Fiteni, Inmaculada τ-estimators of regression models with structural change of unknown location. (English summary) **2005a:62158**
Gather, Ursula *see* **Davies, P. Laurie, (2005g:62004)**
Gervini, Daniel Robust adaptive estimators for binary regression models. (English summary)
Goldenberg, Andrew A. *see* **Melek, William W., 2005m:68200**
Gomes, M. Ivette (*with* Caeiro, Frederico; Figueiredo, Fernanda) Bias reduction of a tail index estimator through an external estimation of the second-order parameter. (English summary) **2005g:62064**
— *see also* **Caeiro, Frederico, 2005a:62083**
Gustafson, Paul ★ Measurement error and misclassification in statistics and epidemiology. **2005b:62146**
Guy, Tatiana V. *see* **Šmídl, Václav et al., 2005j:62187**
He, Xuming *see* **Zuo, Yijun et al., 2005a:62073**
Heritier, Stéphane (*with* Ronchetti, Elvezio) Robust binary regression with continuous outcomes. (English and French summaries)
Huang, Jing-Ye (*with* Yang, Eugene K.; Lin, Mei-Ling; Chen, Lin-An) Welsh's trimmed mean for the nonlinear regression model. (English summary) **2005a:62151**
(Hubert, Mia) *see* **Theory and applications of recent robust methods, 2005c:62006**
Hung, Wen-Liang (*with* Liu, Yuan-Chen) Estimation of Weibull parameters using a fuzzy least-squares method. (English summary)
Imon, A. H. M. Rahmatullah *see* **Alam, Md. M. et al.**

Janz, Norbert Outlier robust estimation of an Euler equation investment model with German firm level panel data. (English summary) **2005b:91119**
Kárný, Miroslav *see* **Šmídl, Václav et al., 2005j:62187**
Kharin, Yurii (*with* Pashkevich, M. A.) Statistical estimation of the beta-binomial distribution in the case of distortions of binary observations. (Russian. English and Russian summaries) **2005a:62059**
Koivunen, V. *see* **Ollila, E., (2005c:62006)**
Kolkiewicz, Adam W. Best monotone M-estimators. (English and French summaries) **2005j:62052**
van der Laan, Mark J. *see* **Neugebauer, Romain**
Lahiri, Soumendra N. (*with* Mukherjee, Kanchan) Asymptotic distributions of M-estimators in a spatial regression model under some fixed and stochastic spatial sampling designs. (English summary) **2005h:62156**
Li, Shu-you (*with* Zhang, Bao Xue) Robustness of minimum norm quadratic unbiased estimator of variance for the general linear model. (English and Chinese summaries) **2005b:62149**
Liese, Friedrich (*with* Vajda, Igor) A general asymptotic theory of M-estimators. I. (English summary) **2005a:62070**
— (*with* Vajda, Igor) A general asymptotic theory of M-estimators. II. (English summary) **2005e:62040**
Lin, Mei-Ling *see* **Huang, Jing-Ye et al., 2005a:62151**
Liu, Yuan-Chen *see* **Hung, Wen-Liang**
Low, Mark G. *see* **Cai, T. Tony, 2005h:62143**
Marazzi, Alfio (*with* Yohai, Víctor J.) Adaptively truncated maximum likelihood regression with asymmetric errors. (English summary) **2005d:62114**
Mašíček, Libor Consistency of the least weighted squares regression estimator. (English summary) **2005g:62120**
Melek, William W. (*with* Goldenberg, Andrew A.) The development of a robust fuzzy inference mechanism. (English summary) **2005m:68200**
Morgenthaler, Stephan (*with* Staudte, Robert G.) Conditionally optimal weights of evidence. (English summary)
Mukherjee, Kanchan *see* **Lahiri, Soumendra N., 2005h:62156**
Murphy, Thomas Brendan Bayesian robustness for multivariate problems. (English summary) (*see* **2005a:62016**)
Nasser, M. *see* **Alam, Md. M. et al.**
Nemirovskii, Arkadii *see* **Eldar, Yonina C. et al., 2005h:93156**
Neugebauer, Romain (*with* van der Laan, Mark J.) Why prefer double robust estimators in causal inference? (English summary)
Neykov, Neyko *see* **Dimova, Rositsa, 2005a:62169**
Ollila, E. (*with* Koivunen, V.) Robust ML-estimation of the transmitter location. (English summary) (*see* **2005c:62006**)
Ososkov, Gennadii A. Elastic arm methods of data analysis as a robust approach. (English summary) **2005g:65028**
Pashkevich, M. A. *see* **Kharin, Yurii, 2005a:62059**
Paula, Gilberto A. *see* **Cysneiros, Francisco José A.**
(Pison, Greet) *see* **Theory and applications of recent robust methods, 2005c:62006**
Quinn, Anthony *see* **Šmídl, Václav et al., 2005j:62187**
Rahman, Md. J. *see* **Alam, Md. M. et al.**
Ronchetti, Elvezio *see* **Heritier, Stéphane**
Schreiber, Tomasz Large deviation principle for generalized quantile functions. (English summary) **2005k:60090**
Šmídl, Václav (*with* Quinn, Anthony; Kárný, Miroslav; Guy, Tatiana V.) Robust estimation of autoregressive processes using a mixture-based filter-bank. (English summary) **2005j:62187**
Staudte, Robert G. *see* **Morgenthaler, Stephan**
(Struyf, Anja) *see* **Theory and applications of recent robust methods, 2005c:62006**
Suter, David (*with* Wang, Hanzi) Robust fitting using mean shift: applications in computer vision. (English summary) (*see* **2005c:62006**)
Szatmari-Voicu, D. *see* **Collins, J. R., 2005e:62039**
Thomassen, L. (*with* Van Wouwe, M.) The influence of a stochastic interest rate on the n-fold compound option. (English summary) **2005e:91094**
Toma, Aida Bounded influence estimators for multivariate lognormal distributions. (English and French summaries) **2005e:62087**
Tsai, Yu-Ling (*with* Zhou, Julie) Discrete M-robust designs for regression models. (English summary)
Vajda, Igor *see* **Liese, Friedrich, 2005a:62070** *and* **2005e:62040**
(Van Aelst, Stefan) *see* **Theory and applications of recent robust methods, 2005c:62006**
Van Wouwe, M. *see* **Thomassen, L., 2005e:91094**
Wang, Hanzi *see* **Suter, David, (2005c:62006)**
Wiens, Douglas P. Robust allocation schemes for clinical trials with prognostic factors. (English summary) **2005f:62118**
— *see also* **Fang, Zhide, 2005c:62130**
Yang, Eugene K. *see* **Huang, Jing-Ye et al., 2005a:62151**
Yohai, Víctor J. *see* **Marazzi, Alfio, 2005d:62114**
Zhang, Bao Xue *see* **Li, Shu-you, 2005b:62149**
Zhou, Julie *see* **Tsai, Yu-Ling**
Zuo, Yijun Projection-based depth functions and associated medians. (English summary) **2005a:62134**
— (*with* Cui, Heng-jian; He, Xuming) On the Stahel-Donoho estimator and depth-weighted means of multivariate data. (English summary) **2005a:62073**

Items listed otherwise than by author

Antwerp ★ Theory and applications of recent robust methods. **2005c:62006**
Theory and applications of recent robust methods ★ Theory and applications of recent robust methods. **2005c:62006**

62F40 Bootstrap, jackknife and other resampling methods

Alam, Md. M. (*with* Imon, A. H. M. Rahmatullah; Nasser, M.; Rahman, Md. J.) Necessity for consideration of robustness in bootstrap estimation for location. (English summary)
Aldridge, Gwen (*with* Bowman, Dale) Bayesian bootstrap methods for developmental toxicity studies. (English summary)
Babu, Gutti Jogesh (*with* Rao, Calyampudi Radhakrishna) Goodness-of-fit tests when parameters are estimated. (English summary) **2005c:62053**
Bowman, Dale *see* **Aldridge, Gwen**
He, Xuming *see* **Kocherginsky, Masha et al.**
Imon, A. H. M. Rahmatullah *see* **Alam, Md. M. et al.**
Jiménez-Gamero, M. D. (*with* Muñoz-García, J.; Pino-Mejías, R.) Reduced bootstrap for the median. (English summary) **2005i:62057**
Kocherginsky, Masha (*with* He, Xuming; Mu, Yunming) Practical confidence intervals for regression quantiles. (English summary)
Lee, Stephen M. S. (*with* Young, G. Alastair) Parametric bootstrapping with nuisance parameters. (English summary)
Li, Kim Hung The sampling/importance resampling algorithm. (*see* **2005m:62005**)
Lin, Wei *see* **Wen, Xian Bin et al., 2005m:62069**
Malzahn, Dörthe (*with* Opper, Manfred) An approximate analytical approach to resampling averages. (English summary)
Mooijaart, Ab *see* **Tollenaar, Nikolaj**
Mu, Yunming *see* **Kocherginsky, Masha et al.**
Muñoz-García, J. *see* **Jiménez-Gamero, M. D. et al., 2005i:62057**
Nasser, M. *see* **Alam, Md. M. et al.**
Opper, Manfred *see* **Malzahn, Dörthe**
Pino-Mejías, R. *see* **Jiménez-Gamero, M. D. et al., 2005i:62057**
Radulović, Dragan A note on the smoothed bootstrap. (English summary) **2005k:62083**
Rahman, Md. J. *see* **Alam, Md. M. et al.**
Rao, Calyampudi Radhakrishna *see* **Babu, Gutti Jogesh, 2005c:62053**
Tian, Zheng *see* **Wen, Xian Bin et al., 2005m:62069**
Tollenaar, Nikolaj (*with* Mooijaart, Ab) Type I errors and power of the parametric bootstrap goodness-of-fit test: full and limited information. (English summary)
Wen, Xian Bin (*with* Tian, Zheng; Lin, Wei; Yang, Zheng) Bootstrap approximation of parameters in a damped exponential signal model. (Chinese. English and Chinese summaries) **2005m:62069**
Yang, Zheng *see* **Wen, Xian Bin et al., 2005m:62069**
Young, G. Alastair *see* **Lee, Stephen M. S.**

Items with secondary classifications in 62F40

Ahn, Hongshik *see* **Joo, Jungnam et al.**
Bravo, Francesco Empirical likelihood based inference with applications to some econometric models. (English summary) **2005d:62076**
Brouhns, Natacha (*with* Denuit, Michel; van Keilegom, Ingrid) Bootstrapping the Poisson log-bilinear model for mortality forecasting. (English summary)
Delongchamp, Robert R. *see* **Joo, Jungnam et al.**
Denuit, Michel *see* **Brouhns, Natacha et al.**
Fuh, Cheng-Der (*with* Ip, Edward H.) Bootstrap and Bayesian bootstrap clones for censored Markov chains. (English summary) **2005f:62129**
Gänssler, Peter (*with* Rost, Daniel) Smoothed empirical processes and the bootstrap. (English summary) **2005m:60043**
Good, Phillip I. ★ Permutation, parametric and bootstrap tests of hypotheses. **2005f:62001**
— ★ Introduction to statistics through resampling methods and R/S-PLUS®.
Hahn, Jinyong (*with* Hausman, Jerry A.; Kuersteiner, Guido) Estimation wtih weak instruments: accuracy of higher-order bias and MSE approximations. (English summary) **2005c:62041**
Hall, Peter G. (*with* Zhou, Xiao-Hua) Effects of smoothing on distribution approximations. (English summary) **2005b:62041**
Hausman, Jerry A. *see* **Hahn, Jinyong et al., 2005c:62041**
Ip, Edward H. *see* **Fuh, Cheng-Der, 2005f:62129**
Joo, Jungnam (*with* Ahn, Hongshik; Delongchamp, Robert R.; Nowell, Susan A.; Lang, Nicholas P.) A mixture-of-genotypes model for the distribution of thermostable phenol sulfotransferase activity. (English summary)
Karlsson, Maria Finite sample properties of the QME. (English summary)
van Keilegom, Ingrid *see* **Brouhns, Natacha et al.**
Kuersteiner, Guido *see* **Hahn, Jinyong et al., 2005c:62041**
van der Laan, Mark J. *see* **Pollard, Katherine S.**
Lang, Nicholas P. *see* **Joo, Jungnam et al.**
Lark, R. M. *see* **Marchant, B. P., 2005k:86020**
Li, Jian Li[1] Cost-effectiveness analysis and evidence-based medicine. (*see* **2005c:62003**)
Loader, Catherine Smoothing: local regression techniques. (*see* **2005g:62004**)
Maesono, Yoshihiko *see* **Yamato, Hajime et al.**
Mak, Tak K. Estimating variances for all sample sizes by the bootstrap. (English summary) **2005b:62154**
Mammen, Enno (*with* Nandi, Swagata[2]) Bootstrap and resampling. (*see* **2005g:62004**)
Marchant, B. P. (*with* Lark, R. M.) Estimating variogram uncertainty. (English summary) **2005k:86020**
Modarres, Reza (*with* Zheng, Gang[1]) Maximum likelihood estimation of dependence parameter using ranked set sampling. (English summary) **2005j:62055**
Nandi, Swagata[2] *see* **Mammen, Enno, (2005g:62004)**
Nomachi, Toshifumi *see* **Yamato, Hajime et al.**
Nowell, Susan A. *see* **Joo, Jungnam et al.**
Pollard, Katherine S. (*with* van der Laan, Mark J.) Choice of a null distribution in resampling-based multiple testing. (English summary)
Rempała, Grzegorz A. (*with* Szatzschneider, Konrad) Bootstrapping parametric models of mortality. **2005a:62231**
Rost, Daniel *see* **Gänssler, Peter, 2005m:60043**
Singh, Sarjinder ★ Advanced sampling theory with applications. Vol. I, II. **2005b:62028**
Stoffer, David S. (*with* Wall, Kent D.) Resampling in state space models. (English summary) (*see* **2005c:62005**)
Szatzschneider, Konrad *see* **Rempała, Grzegorz A., 2005a:62231**
Tajvidi, Nader Confidence intervals and accuracy estimation for heavy-tailed generalized Pareto distributions. (English summary)

Toda, Koichiro *see* **Yamato, Hajime et al.**
Wall, Kent D. *see* **Stoffer, David S., (2005c:62005)**
Yamato, Hajime (*with* Toda, Koichiro; Nomachi, Toshifumi; Maesono, Yoshihiko) An Edgeworth expansion of a convex combination of U-statistics based on Studentization. (English summary)
Yeo, In-Kwon Variable selection and transformation in linear regression models. (English summary)
Zheng, Gang[1] *see* **Modarres, Reza, 2005j:62055**
Zhou, Xiao-Hua *see* **Hall, Peter G., 2005b:62041**

62F99 None of the above, but in this section

Morales, Domingo (*with* Pardo, Leandro; Santamaría, Laureano) Bootstrap confidence regions in multinomial sampling. (English summary) **2005f:62055**
Moustafa, Hanem M. (*with* Ramadan, S. G.) Updating and asymptotic relative efficiency of a non-linear discriminant function estimated from a mixture of two Gompertz populations. (English summary) **2005k:62084**
Pardo, Leandro *see* **Morales, Domingo et al., 2005f:62055**
Ramadan, S. G. *see* **Moustafa, Hanem M., 2005k:62084**
Santamaría, Laureano *see* **Morales, Domingo et al., 2005f:62055**

Items with secondary classifications in 62F99

Andrews, D. F. (*with* Fraser, Donald A. S.; Wong, Augustine) Computation of distribution functions from likelihood information near observed data. (English summary) **2005m:62063**
Bayarri, M. J. (*with* Berger, James O.) The interplay of Bayesian and frequentist analysis. (English summary) **2005h:62012**
Berger, James O. *see* **Bayarri, M. J., 2005h:62012**
Cappé, Olivier (*with* Douc, Randal; Moulines, Éric; Robert, Christian P.) On the convergence of the Monte Carlo maximum likelihood method for latent variable models. (English summary) **2005c:62039**
Chang, Ping-Teng Fuzzy strategic replacement analysis. (English summary) **2005g:90032**
Douc, Randal *see* **Cappé, Olivier et al., 2005c:62039**
Fraser, Donald A. S. *see* **Andrews, D. F. et al., 2005m:62063**
Hwang, J. T. Gene *see* **Yang, Ming-Chung et al., 2005h:62065**
Khan, Rasul A. Approximation for the expectation of a function of the sample mean. (English summary) **2005b:62054**
Lee, Ding-Wen *see* **Yang, Ming-Chung et al., 2005h:62065**
Lee, Myung Sook Strong consistency for AR model with missing data. (English summary) **2005k:62076**
Moulines, Éric *see* **Cappé, Olivier et al., 2005c:62039**
Robert, Christian P. *see* **Cappé, Olivier et al., 2005c:62039**
Srivastava, Virendra K. *see* **Tiwari, Ramji, 2005f:62045**
Tiwari, Ramji (*with* Srivastava, Virendra K.) Large sample asymptotic properties of ordinary least squares, two stage least squares and limited information maximum likelihood estimators in simultaneous equations models. (English summary) **2005f:62045**
Wang, Dabuxilatu A note on consistency and unbiasedness of point estimation with fuzzy data. (English summary) **2005k:62071**
Weerahandi, Samaradasa ★ Generalized inference in repeated measures. **2005b:62006**
Wong, Augustine *see* **Andrews, D. F. et al., 2005m:62063**
Xie, Tian Fa (*with* Zhang, Zhong Zhan) Test and estimation improvement for parameters in a clinical trial model. (Chinese. English and Chinese summaries) **2005j:62206**
Yang, Ming-Chung (*with* Lee, Ding-Wen; Hwang, J. T. Gene) The equivalence of the mid p-value and the expected p-value for testing equality of two balanced binomial proportions. (English summary) **2005h:62065**
Zhang, Zhong Zhan *see* **Xie, Tian Fa, 2005j:62206**

62Gxx Nonparametric inference

Items with secondary classifications in 62Gxx

Chakraborti, Subhabrata *see* **Gibbons, Jean Dickinson, 2005a:62003**
Desu, M. M. (*with* Raghavarao, D.) ★ Nonparametric statistical methods for complete and censored data. **2005d:62003**
Gibbons, Jean Dickinson (*with* Chakraborti, Subhabrata) ★ Nonparametric statistical inference. **2005a:62003**
Raghavarao, D. *see* **Desu, M. M., 2005d:62003**

62G05 Estimation

Abadie, Alberto Semiparametric difference-in-differences estimators. (English summary) **2005h:62103**
Abramovich, Felix (*with* Amato, Umberto; Angelini, Claudia) On optimality of Bayesian wavelet estimators. (English summary) **2005m:62070**
Abrevaya, Jason (*with* Hausman, Jerry A.) Response error in a transformation model with an application to earnings-equation estimation. (English summary)
Afchain, Anne-Laure Non-parametric estimation on lifetimes of subjects exposed to radiation from a semi-Markov process. (English summary) **2005e:62046**
Alfieri, Alessandra (*with* El Barmi, Hammou) Nonparametric estimation of a distribution with type I bias with applications to competing risks. (English summary) **2005j:62071**
Amato, Umberto *see* **Abramovich, Felix et al., 2005m:62070**
Andrews, D. F. (*with* Feuerverger, A.) General saddlepoint approximation methods for smooth functions of M-estimates with bootstrap applications. (English summary) (*see* **2005m:62007**)
Angelini, Claudia *see* **Abramovich, Felix et al., 2005m:62070**
Antoniadis, Anestis (*with* Grégoire, Gérard; McKeague, Ian W.) Bayesian estimation in single-index models. (English summary)
Barber, Stuart (*with* Nason, Guy P.) Real nonparametric regression using complex wavelets. (English summary)
Bazargan-Lari, A. Distribution of the range when sample size has a GPED. (English summary) **2005d:62046**
Benhenni, Karim (*with* Rachdi, Mustapha) Non-parametric estimation of the average growth curve from quantized observations and correlated errors. (English and French summaries)
Berlinet, Alain (*with* Biau, Gérard) Iterated modified histograms as dynamical systems. (English summary) **2005g:62061**
Berry, Steve (*with* Linton, Oliver B.; Pakes, Ariel) Limit theorems for estimating the parameters of differentiated product demand systems. (English summary) **2005c:62054**
Bertail, Patrice Empirical likelihood in nonparametric and semiparametric models. (English summary) **2005f:62056**
Bertin, Karine Minimax exact constant in sup-norm for nonparametric regression with random design. (English summary) **2005d:62047**
Biau, Gérard (*with* Devroye, Luc) On the risk of estimates for block decreasing densities. (English summary) **2005c:62055**
— *see also* **Berlinet, Alain, 2005g:62061**
Bigot, Jérémie A scale-space approach with wavelets to singularity estimation. (English summary)
Blanke, Delphine Local Hölder exponent estimation for multivariate continuous time processes. (English summary) **2005b:62067**
Blondin, David Estimation nonparamétrique multidimensionnelle des dérivées de la régression. (English and French summaries) [Multidimensional nonparametric estimation of regression derivatives]
— (*with* Massiani, Anne; Ribereau, Pierre) Vitesses de convergence uniforme presque sûre d'estimateurs non-paramétriques de la régression. (English and French summaries) [Rates of strong consistency for nonparametric regression estimators]
Blundell, Richard W. (*with* Powell, James L.) Endogeneity in semiparametric binary response models. (English summary)
Breslow, Norman E. *see* **Chen, Jinbo**
Buchanan, R. J. *see* **Eubank, R. L. et al.**
Bunea, Florentina Consistent covariate selection and post model selection inference in semiparametric regression. (English summary) **2005d:62048**
— (*with* Wegkamp, Marten H.) Two-stage model selection procedures in partially linear regression. (English and French summaries) **2005d:62049**
Bura, Efstathia *see* **Hall, Peter G., 2005m:62076**
Butucea, Cristina Asymptotic normality of the integrated square error of a density estimator in the convolution model. (English and Catalan summaries) **2005j:62072**
Caeiro, Frederico (*with* Gomes, M. Ivette) Bias reduction in the estimation of parameters of rare events. (English summary) **2005a:62083**
— *see also* **Gomes, M. Ivette et al., 2005g:62064**
Cai, Jianwen (*with* Kim, Jinheum) Nonparametric quantile estimation with correlated failure time data. (English summary) **2005a:62084**
— (*with* Schaubel, Douglas E.) Analysis of recurrent event data. (*see* **2005a:62015**)
— (*with* Schaubel, Douglas E.) Marginal means/rates models for multiple type recurrent event data. (English summary) **2005c:62056**
— *see also* **Kong, Lan et al., 2005b:62074**
Capitanio, Antonella (*with* Conti, Pier Luigi) A Bayesian nonparametric approach to the estimation of the adjustment coefficient, with applications to insurance and telecommunications. (English summary) **2005g:62062**
Cattaneo, Carla *see* **Ongaro, Andrea, 2005b:62078**
Ceci, Claudia (*with* Mazliak, Laurent) Optimal design in nonparametric life testing. (English summary) **2005h:62104**
Chai, Gen Xiang *see* **Hua, Hong et al.**
Chainais, P. *see* **Lashermes, B.**
Chan, Wen-Yaw *see* **Lai, Yi-Hsuan et al., 2005c:62061**
Chen, Gemai *see* **You, Jin Hong, 2005a:62098** *and* **2005h:62120**
Chen, Jia Ding *see* **Zhang, Aijun et al., 2005b:62079**
Chen, Jinbo (*with* Breslow, Norman E.) Semiparametric efficient estimation for the auxiliary outcome problem with the conditional mean model. (English and French summaries)
Chen, Lin-An *see* **Lai, Yi-Hsuan et al., 2005c:62061**
Chen, Songnian (*with* Khan, Shakeeb) Semiparametric estimation of a heteroskedastic sample selection model. (English summary) **2005c:62057**
Chen, Zhen (*with* Dunson, David B.) Bayesian estimation of survival functions under stochastic precedence. (English summary)
Chen, Zhiqiang[1] (*with* Tyler, David E.) On the behavior of Tukey's depth and median under symmetric stable distributions. (English summary) **2005a:62085**
Cheng, Ming-Yen (*with* Hall, Peter G.; Hartigan, John A.) Estimating gradient trees. (English summary) (*see* **2005i:62005**)
Cheng, Shi Hong *see* **Wang, Xiao Qian[2]**
Chernozhukov, Victor (*with* Hansen, Christian) An IV model of quantile treatment effects. (English summary) **2005k:62085**
Choi, Jai Won *see* **Nandram, Balgobin**
Cingi, Hulya *see* **Kadilar, Cem, 2005h:62113**
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Conti, Pier Luigi Approximated inference for the quantile function via Dirichlet processes. (English summary) **2005k:62086**
— *see also* **Capitanio, Antonella, 2005g:62062**
Cosslett, Stephen R. Efficient semiparametric estimation of censored and truncated regressions via a smoothed self-consistency equation. (English summary) **2005a:62086**
Cuevas, Antonio (*with* Rodríguez-Casal, Alberto) On boundary estimation. (English summary) **2005b:62068**
Cui, Heng-jian *see* **Wang, Xue Li[1], 2005g:62069**
Dalabehera, M. *see* **Sahoo, L. N. et al.**
Das, Mitali Simple estimators for nonparametric panel data models with sample attrition. (English summary) **2005a:62087**
— Instrumental variables estimators of nonparametric models with discrete endogenous regressors. (English summary) **2005i:62058**
Davison, A. C. *see* **Semadeni, C. et al.**
Delafosse, Emmanuel (*with* Guillou, Armelle) Extreme quantiles estimation for actuarial

applications. (English and French summaries)
Demchuk, Eugene *see* **Singh, Harshinder et al., 2005a:62095**
Devroye, Luc *see* **Biau, Gérard, 2005c:62055**
Diana, Giancarlo (*with* Tommasi, Chiara) Optimal estimation for finite population mean in two-phase sampling. (English summary)
Doksum, Kjell A. (*with* James, Lancelot F.) On spatial neutral to the right processes and their posterior distributions. (English summary) **2005a:62088**
— *see also* **Jiang, Jiancheng, 2005b:62072**
Domínguez, Manuel A. (*with* Lobato, Ignacio N.) Consistent estimation of models defined by conditional moment restrictions. (English summary) **2005j:62073**
Domínguez Menchero, José Santos (*with* González-Rodríguez, Gil; López Palomo, María Jesús) An L_2 point of view in testing monotone regression. (English summary) **2005h:62105**
Dümbgen, L. (*with* Freitag, Sandra; Jongbloed, G.) Consistency of concave regression with an application to current-status data. (English summary) **2005j:62074**
Dunajeva, Olga The second-order derivatives of matrices of eigenvalues and eigenvectors with an application to generalized F-statistic. (English summary) **2005d:62050**
Dunson, David B. (*with* Taylor, Jack A.) Approximate Bayesian inference for quantiles. (English summary) **2005j:62075**
— *see also* **Chen, Zhen**
Dupuy, Jean-François Nonparametric maximum likelihood estimation in the proportional hazards model with covariate measurement error. (English summary) **2005m:62071**
Efromovich, Sam Analysis of blockwise shrinkage wavelet estimates via lower bounds for no-signal setting. (English summary) **2005e:62047**
— Distribution estimation for biased data. (English summary) **2005d:62051**
— Oracle inequalities for Efromovich-Pinsker blockwise estimates. (English summary) **2005i:62059**
— On logarithmic penalty in adaptive pointwise estimation and blockwise wavelet shrinkage. (English summary) **2005k:62087**
El Barmi, Hammou (*with* Mukerjee, Hari) Consistent estimation of distributions with type II bias with applications in competing risks problems. (English summary) **2005d:62052**
— *see also* **Alfieri, Alessandra, 2005j:62071**
Eldar, Yonina C. (*with* Merhav, Neri) A competitive minimax approach to robust estimation of random parameters. (English summary) **2005k:62088**
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— *see also* **Lang, Stefan[2] et al.**
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— *see also* **Caeiro, Frederico, 2005a:62083**
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— *see also* **Fahrmeir, Ludwig et al.**
Lashermes, B. (*with* Chainais, P.) New insights into the estimation of scaling exponents. (English summary)
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Liu, Li Ping[4] Strong consistency estimation in semiparametric regression model for contaminated data. (Chinese. English and Chinese summaries)
— *see also* **Zhang, Aijun et al.**, 2005b:62079
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Subramanian, Sundarraman A correction note on: "Semiparametric transformation models and the missing information principle" [J. Statist. Plann. Inference **115** (2003), no. 1, 327–348; MR1984068 (2004b:62099)]. (English summary) **2005d:62061**
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Sun, Liuquan *see* **Zhou, Xian et al., 2005k:62098**
Sutradhar, Brajendra C. On exact quasilikelihood inference in generalized linear mixed models. (English summary)
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Tan, Zhiqiang[2] On a likelihood approach for Monte Carlo integration. (English summary) **2005i:62064**
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Tseng, Paul *see* **Sardy, Sylvain, 2005d:62060**
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Vasil'eva, L. A. (*with* Gortsev, A. M.) Estimation of the dead time of an asynchronous doubly stochastic flow of events under conditions of incomplete observability. (Russian. Russian summary) **2005m:62085**
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Wang, Jin[1] (*with* Serfling, Robert) Nonparametric multivariate kurtosis and tailweight measures. (English summary) **2005j:62080**
Wang, Li (*with* Liang, Han Ying) Strong uniform convergence of the recursive regression estimator under φ-mixing conditions. (English summary) **2005g:62068**
Wang, Naisyin *see* **Eubank, R. L. et al.**
Wang, Qi-Hua (*with* Linton, Oliver B.; Härdle, Wolfgang K.) Semiparametric regression analysis with missing response at random. (English summary) **2005e:62053**
Wang, Qingcheng *see* **Zhang, Aijun et al., 2005b:62079**
Wang, Suojin *see* **Eubank, R. L. et al.**
Wang, Xiao Qian[2] (*with* Cheng, Shi Hong) The second-order Edgeworth expansion for the distribution of Hill's estimator. (Chinese. English and Chinese summaries)
Wang, Xue Li[1] (*with* Cui, Heng-jian) Local linear estimation in presence of auxiliary information. (English and Chinese summaries) **2005g:62069**
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Wellner, Jon A. Gaussian white noise models: some results for monotone functions. (English summary) **2005k:62096**
— (*with* Zhang, Ying[6]; Liu, Hao[4]) A semiparametric regression model for panel count data: when do pseudo-likelihood estimators become badly inefficient? (English summary) (*see* **2005j:62008**)
Werker, Bas J. M. *see* **Genest, Christian, (2005a:62016)**
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Wywiał, Janusz Errata: "Conditional estimation of average on the basis of weighting data" [Statist. Papers **45** (2004), no. 3, 413–431; MR2064721].
Xia, Yingcun (*with* Zhang, Wenyang; Tong, Howell) Efficient estimation for semivarying-coefficient models. (English summary) **2005c:62069**
Xu, Bing[1] Estimation theory for partly linear regression models under NA dependent samples. (Chinese. English and Chinese summaries) **2005a:62097**
Xue, Liu Gen (*with* Zhu, Li-Xing) L_1-norm estimation and random weighting method in a semiparametric model. (English summary)
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— (*with* Chen, Gemai) B-spline estimation for partially linear regression models with heteroscedasticity. (Chinese. English and Chinese summaries) **2005h:62120**
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Zhang, Aijun (*with* Chen, Jia Ding; Liu, Li Ping[4]; Wang, Qingcheng) An algorithm for maximum likelihood estimates to semi-parametric regression model with interval censored data. (English summary) **2005b:62079**
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Zhang, Wenyang *see* **Xia, Yingcun et al., 2005c:62069**
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Zhou, Lan[1] *see* **Huang, Jianhua Z. et al., 2005k:62090**
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Zitikis, Ricārdas *see* **Helmers, Roelof et al., 2005h:62107**
Zwane, E. N. (*with* van der Heijden, Peter G. M.) Semiparametric models for capture-recapture studies with covariates. (English summary)

Items with secondary classifications in 62G05

Aalen, Odd O. (*with* Fosen, Johan; Weedon-Fekjær, Harald; Borgan, Ørnulf; Husebye, Einar) Dynamic analysis of multivariate failure time data. (English summary)
Abraham, Christophe (*with* Biau, Gérard; Cadre, Benoît) On the asymptotic properties of a simple estimate of the mode. (English summary) **2005j:62105**
Agrawal, Mool Chandra (*with* Roy, Dulal Chandra) Efficient imputation-based regression type estimators in the presence of non-response. (English summary)
Aguirregabiria, Victor Nonparametric identification of behavioral responses to counterfactual policy interventions in dynamic discrete decision processes. (English summary) **2005k:62011**
Ahmad, Ibrahim A. (*with* Ran, Iris S.) Kernel contrasts: a data-based method of choosing smoothing parameters in nonparametric density estimation. (English summary) **2005h:62121**
— Some properties of classes of life distributions with unknown age. (English summary) **2005h:62274**
Ahmed, Zahoor (*with* Shahbaz, Muhammad Qaiser; Hanif, Muhammad) Generalization of Sampford selection procedure. (English summary)
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Ahsanullah, Mohammad *see* **Raqab, Mohammad Z.**

Aitchison, John (*with* Kay, Jim W.; Lauder, Ian J.) ★ Statistical concepts and applications in clinical medicine.
Akçay, Hüseyin The size of the membership-set in a probabilistic framework. (English summary) **2005m:93144**
Akrotirianakis, Ioannis G. (*with* Floudas, Christodoulos A.) Computational experience with a new class of convex underestimators: Box-constrained NLP problems. (English summary) **2005h:90171**
Alexandridis, Roxana *see* **Ozturk, Omer et al., 2005c:62125**
Alfò, Marco (*with* Trovato, Giovanni) Semiparametric mixture models for multivariate count data, with application. (English summary)
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Aneiros-Pérez, Germán (*with* González-Manteiga, Wenceslao; Vieu, Philippe) Estimation and testing in a partial linear regression model under long-memory dependence. (English summary) **2005b:62140**
Angelini, Claudia (*with* Sapatinas, Theofanis) Empirical Bayes approach to wavelet regression using ε-contaminated priors. (English summary)
Anisimov, Vladimir V. (*with* Fedorov, Valerii V.) Asymptotic properties of the CRT estimators for multicentre studies. (English summary) (*see* **2005d:62008**)
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Bagdonavičius, Vilijandas B. (*with* Nikulin, Mikhail S.) Semiparametric analysis of degradation and failure time data with covariates. (English summary) (*see* **2005d:62008**)
— (*with* Zdorova-Cheminade, Olga; Nikulin, Mikhail S.) Statistical planning and inference in accelerated life testing using the CHSS model. (English summary)
— (*with* Nikulin, Mikhail S.) Statistical analysis of survival and reliability data with multiple crossings of survival functions. (English and French summaries) **2005m:62185**
Bajari, Patrick (*with* Kahn, Matthew E.) Estimating housing demand with an application to explaining racial segregation in cities. (English summary)
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Banks, H. T. (*with* Ma, Yun-Rong; Potter, Laura K.) A simulation-based comparison between parametric and nonparametric estimation methods in PBPK models. (English summary)
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Barnett, Adrian G. (*with* Wolff, Rodney C.) A time-domain test for some types of nonlinearity. (English summary)
Bebbington, M. S. (*with* Zitikis, Ricărdas) A robust heuristic estimator for the period of a Poisson intensity function. (English summary)
Beneš, Viktor (*with* Rataj, Jan) ★ Stochastic geometry: selected topics. **2005g:60002**
— *see also* **Jiruše, Marek et al.**
Berlinet, Alain (*with* Biau, Gérard; Rouvière, Laurent) Parameter selection in modified histogram estimates. (English summary) **2005m:62086**
Bernard, Jean-Marc An introduction to the imprecise Dirichlet model for multinomial data. (English summary)
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Bordes, Laurent *see* **Alvarez-Andrade, Sergio, 2005b:62109** *and* **Balakrishnan, Narayanaswamy, 2005k:62227**
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Boucher, Kenneth M. (*with* Asselain, Bernard; Tsodikov, Alexander D.; Yakovlev, Andrei Yur′evich) Semiparametric versus parametric regression analysis based on the bounded cumulative hazard model: an application to breast cancer recurrence. (English summary) (*see* **2005d:62008**)
Braun, Thomas M. *see* **Feng, Ziding et al.,** (**2005j:62008**)
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Brys, G. (*with* Hubert, Mia; Struyf, Anja) A robust measure of skewness. (English summary) **2005g:62090**
Buckley, James J. ★ Fuzzy statistics. **2005f:62004**
BuHamra, Sana S. Application of preliminary test and shrinkage estimation in change point analysis. (English summary)
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Chang, Tzu-Kuei (*with* Deng, Wen-Shuenn; Lin, Jung-Huei; Chu, Chih Kang) Integrated cross-validation for the random design nonparametric regression. (English summary) **2005i:62070**
Chang, Xiao-Wen (*with* Qu, Leming) Wavelet estimation of partially linear models. (English summary)
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Dehejia, Rajeev H. Estimating causal effects in nonexperimental studies. (*see* **2005m:62005**)
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Diana, Giancarlo (*with* Tommasi, Chiara) Estimation for finite population variance in double sampling. (English summary)
Di Battista, Tonio (*with* Gattone, Stefano Antonio) Simultaneous inference on diversity of biological communities. (English summary)
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Feddag, Mohand-Larbi (*with* Mesbah, Mounir) Semiparametric approach to the multivariate mixed Rasch model. (English summary) (*see* **2005d:62008**)
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Feng, Ziding (*with* Braun, Thomas M.; McCulloch, Charles E.) Small sample inference for clustered data. (English summary) (*see* **2005j:62008**)
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— *see also* **Bouchard, G. et al., 2005f:90069**
Gobet, Emmanuel (*with* Hoffmann, Marc; Reiß, Markus) Nonparametric estimation of scalar diffusions based on low frequency data. (English summary) **2005h:62220**
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— On a method for minimizing empirical risk. (Russian. Russian summary) **2005g:62108**
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— *see also* **Singh, Sarjinder et al., 2005c:62020**
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Hohage, Thorsten *see* **Bissantz, Nicolai et al., 2005i:65089**
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Honda, Toshio Nonparametric regression with current status data. (English summary) **2005e:62062**
Hossain, Ahmed (*with* Khan, H. T. Abdullah) A comparative study of selected nonparametric multistate approaches for estimating the survival function. (English summary)
Huang, Mei-Ling[1] (*with* Brill, Percy H.) A distribution estimation method based on level crossings. (English summary) **2005a:62124**
Huang, Xuelin *see* **Liu, Lei et al.**
Huber-Carol, Catherine (*with* Vonta, Filia) Semiparametric transformation models for arbitrarily censored and truncated data. (English summary) **2005g:62176**
Hubert, Mia *see* **Brys, G. et al., 2005g:62090**
Huet, Sylvie *see* **Härdle, Wolfgang K. et al., 2005a:62114**
Huggins, Richard M. (*with* Loesch, Danuta Z.) Robust non-parametric estimation of genotype-phenotype relationships in human pedigrees. (English summary)
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Hyndman, Rob J. *see* **Hall, Peter G. et al.**
Iaşinschi, Adrian *see* **Vladimirescu, Ion, 2005j:62032**
Iovleff, Serge *see* **Girard, Stéphane, 2005h:62147**
Ip, W. C. (*with* Yang, Ying[1]; Geng, Zhi; Kwan, Y. K.) Nonparametric estimation of varying coefficient models with binomial longitudinal large strata data. (English summary) **2005a:62110**
Isaia, Ennio Davide *see* **Durio, Alessandra**
Isaksson, Annica Frame error modeling for a vehicle speed survey. (English summary) **2005g:62020**
Ivanoff, B. Gail (*with* Merzbach, Ely) Random clouds and an application to censoring in survival analysis. (English summary) **2005b:62207**
Jacob, Pierre M. *see* **Girard, Stéphane, 2005h:60151**
Jiang, Hongyu (*with* Fine, Jason P.; Kosorok, Michael R.; Chappell, Rick) Pseudo self-consistent estimation of a copula model with informative censoring. (English summary) **2005k:62228**
Jin, Zhezhen (*with* Ying, Zhiliang) Asymptotic theory in rank estimation for AFT model under fixed censorship. (English summary) **2005i:62079**
Jing, Bing-Yi *see* **Helmers, Roelof et al., 2005a:62102**
Jiruše, Marek (*with* Machek, Josef; Beneš, Viktor; Zeman, Petr) A Bayesian estimate of the risk of tick-borne diseases. (English summary)
Joarder, Anwarul H. *see* **Singh, Sarjinder et al., 2005c:62020**
Johnstone, Iain M. (*with* Silverman, Bernard W.) Needles and straw in haystacks: empirical Bayes estimates of possibly sparse sequences. (English summary) **2005h:62027**
— (*with* Kerkyacharian, Gérard; Picard, Dominique; Raimondo, Marc E.) Wavelet deconvolution in a periodic setting. (English summary) **2005f:42087**
Kahn, Matthew E. *see* **Bajari, Patrick**
Kaipio, Jari P. (*with* Somersalo, Erkki) ★ Statistical and computational inverse problems. **2005g:65001**
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Kay, Jim W. *see* **Aitchison, John et al.**
Ke, Chunlei (*with* Wang, Yuedong) Smoothing spline nonlinear nonparametric regression models. (English summary)
van Keilegom, Ingrid A note on the nonparametric estimation of the bivariate distribution under dependent censoring. (English summary) **2005f:62151**
Kerkyacharian, Gérard (*with* Picard, Dominique) Regression in random design and warped wavelets. (English summary) **2005j:62086**
— *see also* **Johnstone, Iain M. et al., 2005f:42087**
Khan, H. T. Abdullah *see* **Hossain, Ahmed**
Khare, B. B. (*with* Sinha, R. R.) Estimation of finite population ratio using two phase sampling scheme in the presence of nonresponse. (English summary)
Kim, Jae Kwang (*with* Fuller, Wayne A.) Fractional hot deck imputation. (English summary)
Kim, Kyoungmi (*with* Zhou, Mai[1]) Symmetric location estimation/testing by empirical likelihood. (English summary) **2005i:62076**
Kim, Peter T. (*with* Koo, Ja-Yong; Park, Heon Jin) Sharp minimaxity and spherical deconvolution for super-smooth error distributions. (English summary) **2005h:62032**
Kirchner, Rosane M. (*with* Souza, Reinaldo C.; Ziegelmann, Flávio A.) Identification of the structure of linear and non-linear time series models, using nonparametric local linear kernel estimation. (*see* **2005i:62007**)
Kitamura, Yuichi[2] (*with* Tripathi, Gautam; Ahn, Hyungtaik) Empirical likelihood-based inference in conditional moment restriction models. (English summary) **2005h:62028**
Klaassen, Chris A. J. Asymptotically most accurate confidence intervals in the semiparametric symmetric location model. (English summary) **2005m:62101**
Ko, C. C. (*with* Zhi, Wanjun; Chin, Francois Po-Shin) ML-based frequency estimation and synchronization of frequency hopping signals. (English summary)
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Kwan, Y. K. *see* **Ip, W. C. et al., 2005a:62110**
Lam, Kin *see* **Xue, Hongqi et al., 2005b:62221**
Lam, Yeh (*with* Zhu, Li-Xing; Chan, Jennifer S. K.; Liu, Qun) Analysis of data from a series of events by a geometric process model. (English summary) **2005a:62023**
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Lang, Stefan[2] (*with* Kragler, P.; Haybach, G.; Fahrmeir, Ludwig) Bayesian space-time analysis of health insurance data. (English summary) (*see* **2005b:62008**)
Lauder, Ian J. *see* **Aitchison, John et al.**
Laurini, Fabrizio (*with* Tawn, Jonathan A.) New estimators for the extremal index and other cluster characteristics. (English summary)
Läuter, Henning Estimation in partly parametric additive Cox models. (English summary) (*see* **2005d:62008**)
Lawless, Jerald F. A note on interval-censored lifetime data and the constant-sum

condition of Oller, Gómez & Calle (2004). Comment on: "Interval censoring: model characterizations for the validity of the simplified likelihood" [Canad. J. Statist. **32** (2004), no. 3, 315–326; MR2101759 (2005j:62198)] by Ramon Oller, Guadalupe Gómez, and M. Luz Calle. (English and French summaries) **2005j:62199**

Lee, Cherng-Luen *see* **Hart, Jeffrey D., 2005f:62088**

Lee, Mei-Ling Ting (*with* Whitmore, George A.) Intensity-dependent normalization in microarray analysis: a note of concern. (English summary)

Lehmann, Axel On a degradation-failure model for repairable items. (English summary) (*see* **2005d:62008**)

Lejeune, Michel ★ Statistique—la théorie et ses applications. (French) [Statistics—theory and applications] **2005j:62003**

Li, Guo Ying[1] *see* **Xue, Hongqi et al., 2005b:62221**

Li, Si Hua *see* **Zheng, Ming**[2] **et al., 2005h:62271**

Liang, Hua (*with* Ren, Haobo) Generalized partially linear measurement error models. (English summary) **2005k:62176**

— *see also* **Ren, Haobo et al.**

Liang, Ta Chen Empirical Bayes estimation of residual survival function at age t. (English summary) **2005h:62029**

Limnios, Nikolaos *see* **Barbu, Vlad**, (**2005d:62008**)

Lin, Juan K. Approximate inference based on convex set sampling. (English summary) **2005d:62010**

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Lin, Xihong *see* **Carroll, Raymond J. et al., 2005c:62073**

Ling, Neng Xiang Strong convergence and its rate of modified partitioning estimation for nonparametric regression function under dependence samples. (English summary) **2005e:62073**

Linton, Oliver B. Nonparametric inference for unbalanced time series data. (English summary)

— *see also* **Shintani, Mototsugu, 2005a:62211**

Little, Roderick J. A. (*with* An, Hyonggin) Robust likelihood-based analysis of multivariate data with missing values. (English summary)

— *see also* **Tang, Gong et al.**, (**2005j:62008**)

Liu, Lei (*with* Wolfe, Robert A.; Huang, Xuelin) Shared frailty models for recurrent events and a terminal event. (English summary)

Liu, Qun *see* **Lam, Yeh et al., 2005a:62023**

Liu, Zhong (*with* Mao, Shi Song) Nonparametric estimation of risk-neutral processes. (Chinese. English and Chinese summaries) **2005h:62252**

Loesch, Danuta Z. *see* **Huggins, Richard M.**

Lu, Yi Qiang (*with* Zeng, Lin Rui) Convergence rate of B-spline M-estimators in a varying-coefficient model. (Chinese. English and Chinese summaries) **2005h:62137**

— (*with* Mao, Shi Song) Local asymptotics for B-spline estimators of the varying coefficient model. (English summary) **2005a:62103**

Ma, Yun-Rong *see* **Banks, H. T. et al.**

Machek, Josef *see* **Jiruše, Marek et al.**

Majumdar, Mukul *see* **Bhattacharya, Rabi, 2005e:37112**

Mammen, Enno (*with* Tsybakov, A. B.) Correction: "Smooth discrimination analysis" [Ann. Statist. **27** (1999), no. 6, 1808–1829; MR1765618 (2001i:62074)]. **2005g:62110**

— *see also* **Härdle, Wolfgang K. et al., 2005a:62114**

Mandelj, Simon (*with* Grabec, Igor; Govekar, Edvard) Nonparametric statistical modeling of spatiotemporal dynamics based on recorded data. (English summary)

Mao, Shi Song *see* **Lu, Yi Qiang, 2005a:62103** *and* **Liu, Zhong, 2005h:62252**

Marques, Tiago A. Predicting and correcting bias caused by measurement error in line transect sampling using multiplicative error models. (English summary)

Mary, Xavier *see* **Rakotomamonjy, Alain et al.**

Mason, David M. *see* **Deheuvels, Paul, 2005k:62131**

Matias, C. (*with* Taupin, M.-L.) Minimax estimation of linear functionals in the convolution model. (English summary) **2005i:62027**

McCulloch, Charles E. *see* **Feng, Ziding et al.**, (**2005j:62008**)

McKeague, Ian W. *see* **Gilbert, Peter B. et al., 2005a:62212**

McMurry, Timothy L. (*with* Politis, Dimitris N.) Nonparametric regression with infinite order flat-top kernels. (English summary) **2005j:62087**

Mei, Chang Lin (*with* Zhang, Chun-xia) Identification of non-varying coefficients in varying-coefficient models. (English summary)

Merkouris, Takis Combining independent regression estimators from multiple surveys. (English summary) **2005g:62021**

Merzbach, Ely *see* **Ivanoff, B. Gail, 2005b:62207**

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Mira, Antonietta (*with* Sargent, Daniel J.) A new strategy for speeding Markov chain Monte Carlo algorithms. (English summary) **2005g:65017**

Moodie, F. Zoe *see* **Prentice, Ross L. et al.**, (**2005j:62008**)

Moral-Arce, Ignacio (*with* Rodríguez-Póo, Juan M.) An efficient marginal integration estimator of a semiparametric additive modelling. (English summary) **2005j:62057**

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Müller, Hans-Georg *see* **Chiou, Jeng-Min**

Müller, Marlene *see* **Härdle, Wolfgang K. et al., 2005a:62004**

Müller, Peter[2] (*with* Quintana, Fernando A.) Nonparametric Bayesian data analysis. (English summary)

Müller, Ursula U. *see* **Greenwood, Priscilla E. et al.**, (**2005d:62008**)

Munk, Axel (*with* Bissantz, Nicolai; Wagner, Thorsten; Freitag, Gudrun) On difference-based variance estimation in nonparametric regression when the covariate is high dimensional. (English summary)

— *see also* **Bissantz, Nicolai et al., 2005i:65089**

Naik, Prasad A. (*with* Tsai, Chih-Ling) Isotonic single-index model for high-dimensional database marketing. (English summary) **2005h:62158**

Nan, Bin Efficient estimation for case-cohort studies. (English and French summaries) **2005j:62197**

Nazin, Alexander V. *see* **Bouchard, G. et al., 2005f:90069**

Nguyen, Hung Trung *see* **Feng, Ding, 2005k:60039**

Nicolini, Giovanna A class of estimators based on detectability: applications to measuring the number of clandestine immigrants. (Italian. English and Italian summaries)

Nikulin, Mikhail S. *see* **Bagdonavičius, Vilijandas B. et al., 2005m:62185** *and* (**2005d:62008**)

Nishiyama, Yoshihiko (*with* Robinson, Peter M.) The bootstrap and the Edgeworth correction for semiparametric averaged derivatives. (English summary) **2005k:62112**

Ogawa, Tomohiro (*with* Hayashi, Masahito) On error exponents in quantum hypothesis testing. (English summary) **2005f:81049**

Oller, Ramon (*with* Gómez, Guadalupe; Calle, M. Luz) Interval censoring: model characterizations for the validity of the simplified likelihood. (English and French summaries) **2005j:62198**

— *see also* **Lawless, Jerald F., 2005j:62199**

Opsomer, J. D. *see* **Francisco-Fernández, Mario et al., 2005e:62060**

Ortega, J. F. A family of scale estimators by means of trimming. (English summary) **2005d:62091**

Ortelli, C. (*with* Trojani, F.) Robust efficient method of moments estimation. (English summary) (*see* **2005c:62006**)

Ouerdiane, Habib (*with* Privault, Nicolas) Asymptotic estimates for white noise distributions. (English and French summaries) **2005b:60175**

Ozturk, Omer (*with* Wolfe, Douglas A.; Alexandridis, Roxana) Multi-sample inference for simple-tree alternatives with ranked-set samples. (English summary) **2005c:62125**

Pan, Jia Zhu *see* **Wu, Guang Xu et al., 2005m:62194**

Paninski, Liam Estimating entropy on m bins given fewer than m samples. (English summary) **2005j:94017**

Park, Heon Jin *see* **Kim, Peter T. et al., 2005h:62032**

Parra, Lucas (*with* Sajda, Paul) Blind source separation via generalized eigenvalue decomposition. (English summary)

Parzen, Michael I. *see* **Chen, Li et al.**, (**2005j:62008**)

Paulauskas, Vygantas *see* **Davydov, Yu. A., 2005k:46031**

Pawlak, Mirosław (*with* Rafajłowicz, Ewaryst; Steland, Ansgar) On detecting jumps in time series: nonparametric setting. (English summary) **2005g:62161**

Peiris, M. Shelton *see* **Thavaneswaran, A., 2005b:62193**

Peng, Hanxiang (*with* Schick, Anton) Estimation of linear functionals of bivariate distributions with parametric marginals. (English summary) **2005d:62136**

(Petrone, Sonia) *see* **Hjort, Nils Lid**, (**2005b:62009**)

Pflug, Georg Ch. Stochastic optimization and statistical inference. (English summary) (*see* **2005f:90001**)

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Politis, Dimitris N. *see* **McMurry, Timothy L., 2005j:62087**

Pontes, Antonio Carlos Fonseca (*with* Corrente, José Eduardo) The use of nonparametric contrasts in one-way layouts and random block designs. (English summary)

Potter, Laura K. *see* **Banks, H. T. et al.**

Prakasa Rao, B. L. S. Identification for linear stochastic systems driven by fractional Brownian motion. (English summary) **2005g:62146**

Prentice, Ross L. (*with* Moodie, F. Zoe; Wu, Jian Rong[1]) Nonparametric estimation of the bivariate survivor function. (English summary) (*see* **2005j:62008**)

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Qin, Gengsheng *see* **Helmers, Roelof et al., 2005a:62102**

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Quintana, Fernando A. *see* **Müller, Peter**[2]

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Raimondo, Marc E. *see* **Johnstone, Iain M. et al., 2005f:42087** *and* **Donoho, David L., 2005h:42068**

Rakotomamonjy, Alain (*with* Mary, Xavier; Canu, Stéphane) Non-parametric regression with wavelet kernels. (English summary)

Ran, Iris S. *see* **Ahmad, Ibrahim A., 2005h:62121**

Raqab, Mohammad Z. (*with* Ahsanullah, Mohammad) Inferences for generalized secant hyperbolic distribution based on order statistics. (English summary)

Rataj, Jan *see* **Beneš, Viktor, 2005g:60002**

Rathouz, Paul J. Fixed effects models for longitudinal binary data with drop-outs missing at random. (English summary)

Ray, Subhash C. ★ Data envelopment analysis. **2005a:90003**

Reiß, Markus *see* **Gobet, Emmanuel et al., 2005h:62220**

Ren, Haobo (*with* Zhou, Xiao-Hua; Liang, Hua) A flexible method for estimating the ROC curve. (English summary)

— *see also* **Liang, Hua, 2005k:62176**

Rice, John A. Functional and longitudinal data analysis: perspectives on smoothing. (English summary)

Ridder, Geert (*with* Woutersen, Tiemen M.) The singularity of the information matrix of the mixed proportional hazard model. (English summary) **2005c:62115**

Rizhov, A. Yu. Estimates for the distributions of components of a mixture based on censored data. (Ukrainian. Ukrainian summary) **2005i:62138**

Robinson, Peter M. *see* **Nishiyama, Yoshihiko, 2005k:62112**

Rodríguez-Póo, Juan M. (*with* Sperlich, Stefan; Vieu, Philippe) Semiparametric estimation of separable models with possibly limited dependent variables. (English summary) **2005c:62199**

— *see also* **Moral-Arce, Ignacio, 2005j:62057**

Romeu, Andrés (*with* Vera-Hernández, Marcos) Counts with an endogenous binary regressor: a series expansion approach. (English summary)

Rouvière, Laurent *see* **Berlinet, Alain et al., 2005m:62086**

Roy, Dulal Chandra *see* **Agrawal, Mool Chandra**

Rueda García, Maria del Mar (*with* González Aguilera, Silvia) Missing data and auxiliary information in surveys. (English summary)

Ruppert, David (*with* Wand, M. P.; Carroll, Raymond J.) ★ Semiparametric regression. **2005a:62012**

Sahoo, L. N. (*with* Sahoo, R. K.; Senapati, S. C.) A general class of estimators in two-stage sampling using multi-auxiliary variables. (English summary)

Sahoo, R. K. *see* **Sahoo, L. N. et al.**

Sajda, Paul *see* **Parra, Lucas**
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Schennach, Susanne M. Nonparametric regression in the presence of measurement error. (English summary) **2005i:62071**
Schick, Anton (*with* Wefelmeyer, Wolfgang) Estimating invariant laws of linear processes by U-statistics. (English summary) **2005e:62119**
— *see also* **Peng, Hanxiang, 2005d:62136**
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Schürmann, Thomas Bias analysis in entropy estimation. (English summary) **2005d:94057**
Segers, Johan Generalized Pickands estimators for the extreme value index. (English summary)
Sen, Pranab Kumar[1] Bioinformatics: statistical perspectives and controversies. (English summary) (*see* **2005a:62014**)
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Sethuraman, Jayaram *see* **Hollander, Myles, (2005a:62015)**
Shahbaz, Muhammad Qaiser A new estimator of population total using Durbin's selection procedure for unequal probability sampling. (English summary)
— *see also* **Butt, Nadeem Shafique** *and* **Ahmed, Zahoor et al.**
Shintani, Mototsugu (*with* Linton, Oliver B.) Nonparametric neural network estimation of Lyapunov exponents and a direct test for chaos. (English summary) **2005a:62211**
Shopova, Diana V. (*with* Uzunov, Dimo I.) Some basic aspects of quantum phase transitions. (English summary) **2005g:82040**
Silverman, Bernard W. *see* **Johnstone, Iain M., 2005h:62027**
Singh, Sarjinder (*with* Grewal, I. S.; Joarder, Anwarul H.) General class of estimators in multi-character surveys. (English summary) **2005c:62020**
— *see also* **Grewal, I. S. et al.**
Sinha, R. R. *see* **Khare, B. B.**
Sobol′, I. M. (*with* Kucherenko, Sergei) On global sensitivity analysis of quasi-Monte Carlo algorithms. (English summary) **2005m:65009**
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de Sousa, Bruno (*with* Michailidis, George) A diagnostic plot for estimating the tail index of a distribution. (English summary)
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Sperlich, Stefan *see* **Härdle, Wolfgang K. et al., 2005a:62004; 2005a:62114** *and* **Rodríguez-Póo, Juan M. et al., 2005c:62199**
Staat, Matthias DEA-benchmarks for Austrian physicians. (English summary) (*see* **2005b:62008**)
Steland, Ansgar *see* **Pawlak, Mirosław et al., 2005g:62161**
Stoimenova, V. (*with* Atanasov, D.; Yanev, Nikolaĭ Mihaylov) Robust estimation and simulation of branching processes. (English summary)
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Subramanian, Sundarraman The missing censoring-indicator model of random censorship. **2005f:62150**
— Asymptotically efficient estimation of a survival function in the missing censoring indicator model. (English summary) **2005c:62176**
— Survival-rate regression using kernel conditional Kaplan-Meier estimators. (English summary) **2005c:62177**
Sun, Shan (*with* Cordero, Minerva) Smooth quantile estimators under strong mixing: necessary and sufficient conditions on bandwidth for weak convergence. (English summary) **2005k:60080**
Sun, Yan[4] (*with* Chai, Gen Xiang) Nonparametric wavelet estimation of a fixed designed regression function. (Chinese. English and Chinese summaries) **2005j:62088**
Sun, Yanqing *see* **Gilbert, Peter B. et al., 2005a:62212**
Suzukawa, Akio Unbiased estimation of functionals under random censorship. (English summary) **2005h:62269**
Tang, Gong (*with* Little, Roderick J. A.; Raghunathan, Trivellore E.) Analysis of multivariate monotone missing data by a pseudolikelihood method. (English summary) (*see* **2005j:62008**)
Taupin, M.-L. *see* **Matias, C., 2005i:62027**
Tawn, Jonathan A. *see* **Laurini, Fabrizio**
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Tikhov, M. S. Statistical estimation based on interval censored data. (English summary) (*see* **2005d:62008**)
Tjøstheim, Dag *see* **Hjellvik, Vidar et al., 2005f:62138**
Tommasi, Chiara *see* **Diana, Giancarlo**
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Tseng, Chih-Yuan (*with* Caticha, Ariel) Maximum entropy approach to the theory of simple fluids. (English summary) (*see* **2005c:62004**)
Tsodikov, Alexander D. *see* **Boucher, Kenneth M. et al., (2005d:62008)**
Tsybakov, A. B. ★ Introduction à l'estimation non-paramétrique. (French) [Introduction to nonparametric estimation] **2005a:62007**
— *see also* **Goldenshluger, Alexander, 2005d:62153** *and* **Mammen, Enno, 2005g:62110**
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(van der Vaart, Aad) *see* **Hjort, Nils Lid, (2005b:62009)**
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Vilar-Fernández, Juan M. *see* **Francisco-Fernández, Mario et al., 2005e:62060**
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Vonta, Filia *see* **Huber-Carol, Catherine, 2005g:62176**
Wagner, Thorsten *see* **Munk, Axel et al.**
Wand, M. P. *see* **Ruppert, David et al., 2005a:62012**
Wang, Chuan Mei (*with* Tong, Heng Qing) Semiparametric multivariate GARCH models. (Chinese. English and Chinese summaries) **2005m:62174**
Wang, Jing Long *see* **Zhang, Ri Quan, 2005k:62110**
Wang, Qi-Hua (*with* Härdle, Wolfgang K.) Empirical likelihood-based dimension reduction inference for linear error-in-responses models with validation study. (English summary) **2005m:62137**
Wang, Wei Proportional hazards regression models with unknown link function and time-dependent covariates. (English summary)
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de Wet, T. Statistical adjustment of tidal gauge data. (English summary)
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Zhou, Wang *see* **Helmers, Roelof et al.**, **2005a:62102**
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Items listed otherwise than by author

Errata:
"Adaptive estimation of the mode of a multivariate density" Erratum: "Adaptive estimation of the mode of a multivariate density" [J. Nonparametr. Stat. **17** (2005), no. 1, 83–105; MR2112688 (2005m:62090a)] by J. Klemelä. **2005m:62090b**

Items with secondary classifications in 62G07

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Bazargan-Lari, A. Distribution of the range when sample size has a GPED. (English summary) **2005d:62046**
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Dalalyan, Arnak S. (*with* Kutoyants, Yurii) On second order minimax estimation of invariant density for ergodic diffusion. (English summary) **2005f:62128**
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Giorgi, Giovanni Maria (*with* Pittau, Maria Grazia; Zelli, Roberto) Regional empirics for economic disparities in Italy: 1951–2001. (English summary)
Givens, Geof H. (*with* Hoeting, Jennifer A.) ★ Computational statistics. **2005h:62003**
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Golovko, N. G. *see* **Kablukova, E. G. et al., (2005i:65006)**
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Gu, Chong Model diagnostics for smoothing spline ANOVA models. (English and French summaries)
Hall, Peter G. (*with* Park, Juhyun[2]) Nonparametric inference about service time distribution from indirect measurements. (English summary)
Härdle, Wolfgang K. (*with* Müller, Marlene; Sperlich, Stefan; Werwatz, Axel) ★ Nonparametric and semiparametric models. **2005a:62004**
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Hoffmann, Marc *see* **Cohen, Albert et al., 2005i:65087**
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Ignaccolo, Rosaria Goodness-of-fit tests for dependent data. (English summary) **2005b:62100**
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Lacomba Arias, Beatriz (*with* Fernández Morales, Antonio; Martín Reyes, Guillermina) Socioeconomic determinants of poverty and the persistence of territorial inequalities: a dynamical analysis for Spain. (Spanish)
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Liang, Feng[1] (*with* Barron, Andrew) Exact minimax strategies for predictive density estimation, data compression, and model selection. (English summary) **2005f:94040**
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Tripathi, Gautam (*with* Kitamura, Yuichi[2]) Testing conditional moment restrictions. (English summary) **2005b:62103**
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(van der Vaart, Aad) *see* **Hjort, Nils Lid, (2005b:62009)**
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Delouille, V. (*with* Simoens, J.; von Sachs, Rainer) Smooth design-adapted wavelets for nonparametric stochastic regression. (English summary)
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— (*with* Penev, Spiridon) Wavelet-based estimation with multiple sampling rates. (English summary)
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— *see also* **Carroll, Raymond J. et al., 2005c:62073**
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Politis, Dimitris N. *see* **McMurry, Timothy L., 2005j:62087**
Prada-Sánchez, J. M. *see* **Lombardía, M. J. et al., 2005c:62074** *and* **Cotos-Yáñez, T. R. et al.**
Rakotomamonjy, Alain (*with* Mary, Xavier; Canu, Stéphane) Non-parametric regression with wavelet kernels. (English summary)
Ruymgaart, Frits H. *see* **Hall, Peter G. et al., 2005j:62085**
von Sachs, Rainer *see* **Delouille, V. et al.**
Satoh, Kenichi (*with* Ohtaki, Megu) A note on multiple regression for single index model. (English summary) **2005f:62071**
Schennach, Susanne M. Nonparametric regression in the presence of measurement error. (English summary) **2005i:62071**
Silverman, Bernard W. *see* **Johnstone, Iain M., 2005k:62104**
Simoens, J. *see* **Delouille, V. et al.**
Simonoff, Jeffrey S. *see* **Giloni, Avi**
Staudenmayer, John *see* **Coull, Brent A.**
Sun, Yan[4] (*with* Chai, Gen Xiang) Nonparametric wavelet estimation of a fixed designed regression function. (Chinese. English and Chinese summaries) **2005j:62088**
Trillo, Javier *see* **Artiaga, Ramón et al.**
Vieu, Philippe *see* **Ferraty, Frédéric, 2005d:62074**
Vilar-Fernández, Juan M. *see* **Francisco-Fernández, Mario et al., 2005e:62060**
Villarreal, Julio C. *see* **Altman, Naomi S.**
Wagner, Thorsten *see* **Munk, Axel et al.**
Wang, Jing Long *see* **Zhang, Ri Quan, 2005k:62110**
Wang, Naisyin *see* **Lin, Xihong et al., 2005a:62111**
Wang, Yuedong *see* **Ke, Chunlei**

Wang, Zheng[6] The a.s. convergence rate and boundary effects of local smoother in continuous time. (Chinese. English and Chinese summaries) **2005k:62108**
Wegkamp, Marten H. *see* **Bunea, Florentina, 2005b:62092**
Wei, Wen Hsiang The smoothing parameter, confidence interval and robustness for smoothing splines. (English summary) **2005k:62109**
Welsh, Alan H. *see* **Lin, Xihong et al., 2005a:62111**
Wu, Guo Li *see* **Chen, Shu Ming**
Yang, Ying[1] *see* **Ip, W. C. et al., 2005a:62110**
Yao, Qiwei *see* **Peng, Liang, 2005c:62075**
Zhang, Daowen (*with* Davidian, Marie) Likelihood and conditional likelihood inference for generalized additive mixed models for clustered data. (English summary)
Zhang, Ri Quan (*with* Wang, Jing Long) Robust estimation in partially linear regression model for dependent data. (English summary) **2005k:62110**
Zhang, Run-Chu *see* **Lin, Lu**[2], **2005b:62094**
Zhu, Zhong Yi (*with* Fung, Wing Kam) Variance component testing in semiparametric mixed models. (English summary) **2005c:62076**

Items with secondary classifications in 62G08

Abrevaya, Jason (*with* Hausman, Jerry A.) Response error in a transformation model with an application to earnings-equation estimation. (English summary)
Alcalá, J. T. *see* **Cristóbal Cristóbal, José Antonio et al., 2005g:62081**
Angelini, Claudia (*with* Sapatinas, Theofanis) Empirical Bayes approach to wavelet regression using ε-contaminated priors. (English summary)
Barber, Stuart (*with* Nason, Guy P.) Real nonparametric regression using complex wavelets. (English summary)
Biau, Gérard (*with* Cadre, Benoît) Nonparametric spatial prediction. (English summary) **2005j:62191**
Bigot, Jérémie A scale-space approach with wavelets to singularity estimation. (English summary)
Bunea, Florentina Consistent covariate selection and post model selection inference in semiparametric regression. (English summary) **2005d:62048**
— (*with* McKeague, Ian W.) Covariate selection for semiparametric hazard function regression models. (English summary) **2005m:62182**
Cadre, Benoît *see* **Biau, Gérard, 2005j:62191**
Carroll, Raymond J. (*with* Hall, Peter G.) Low order approximations in deconvolution and regression with errors in variables. (English summary) **2005b:62081**
— *see also* **Ruppert, David et al., 2005a:62012**
Chen, Gemai *see* **You, Jin Hong, 2005a:62098**
Cheng, Fuxia Asymptotic distributions of error density and distribution function estimators in nonparametric regression. (English summary) **2005j:62082**
Christmann, Andreas On a strategy to develop robust and simple tariffs from motor vehicle insurance data. (English summary)
Cristóbal Cristóbal, José Antonio (*with* Ojeda, J. L.; Alcalá, J. T.) Confidence bands in nonparametric regression with length biased data. (English summary) **2005g:62081**
Cui, Heng-jian *see* **Wang, Xue Li**[1], **2005g:62069**
Di Marzio, Marco *see* **Sclocco, Tonino**
Doksum, Kjell A. *see* **Jiang, Jiancheng, 2005b:62072**
Donoho, David L. (*with* Raimondo, Marc E.) Translation invariant deconvolution in a periodic setting. (English summary) **2005h:42068**
Fan, Jianqing (*with* Li, Runze) Local modeling: density estimation and nonparametric regression. (*see* **2005c:62003**)
Faraway, Julian Human animation using nonparametric regression. (English summary)
Gal'chuk, L. I. (*with* Pergamenshchikov, Sergeĭ) Nonparametric sequential estimation of the drift in diffusion processes via model selection. (English summary) **2005d:62132**
Giné, Evarist (*with* Koltchinskii, Vladimir; Wellner, Jon A.) Ratio limit theorems for empirical processes. (English summary) **2005k:60060**
Greblicki, Włodzimierz Nonlinearity recovering in Wiener system driven with correlated signal. (English summary) **2005m:93157**
Hall, Peter G. *see* **Carroll, Raymond J., 2005b:62081**
Härdle, Wolfgang K. (*with* Müller, Marlene; Sperlich, Stefan; Werwatz, Axel) ★ Nonparametric and semiparametric models. **2005a:62004**
Hausman, Jerry A. *see* **Abrevaya, Jason**
He, Guozhong (*with* Müller, Hans-Georg; Wang, Jane-Ling) Functional canonical analysis for square integrable stochastic processes. (English summary) **2005f:62098**
Honda, Toshio Nonparametric regression in proportional hazards models. (English summary) **2005g:62170**
Jiang, Jiancheng (*with* Doksum, Kjell A.) Empirical plug-in curve and surface estimates. (English summary) **2005b:62072**
Johnstone, Iain M. (*with* Silverman, Bernard W.) Needles and straw in haystacks: empirical Bayes estimates of possibly sparse sequences. (English summary) **2005h:62027**
Khasminskii, R. Z. On-line nonparametric estimation. (English and Catalan summaries) **2005f:62057**
Koenker, Roger (*with* Ng, Pin) A Frisch-Newton algorithm for sparse quantile regression. (English summary)
Koltchinskii, Vladimir *see* **Giné, Evarist et al., 2005k:60060**
Koop, Gary (*with* Poirier, Dale J.) Empirical Bayesian inference in a nonparametric regression model. (English summary) (*see* **2005c:62005**)
Kulasekera, K. B. (*with* Park, Chanseok) Robust nonparametric regression estimation. (English summary) **2005e:62051**
Lambert-Lacroix, Sophie *see* **Yuditskiĭ, A. B., 2005k:62130**
Lee, Herbert K. H. ★ Bayesian nonparametrics via neural networks. **2005a:62011**
Li, Qi[1] (*with* Ouyang, Desheng) Uniform convergence rates of kernel estimation wtih mixed categorical and continuous data. (English summary) **2005m:62079**
Li, Runze *see* **Fan, Jianqing, (2005c:62003)**
Liang, Hua (*with* Wang, Naisyin) Partially linear single-index measurement error models. (English summary) **2005m:62056**
Long, Philip M. Efficient algorithms for learning functions with bounded variation. (English summary) **2005c:68120**
Lu, Yi Qiang (*with* Zeng, Lin Rui) Convergence rate of B-spline M-estimators in a varying-coefficient model. (Chinese. English and Chinese summaries) **2005h:62137**
Masry, Elias Nonparametric regression estimation for dependent functional data: asymptotic normality. (English summary) **2005h:62117**
McKeague, Ian W. *see* **Bunea, Florentina, 2005m:62182**
Müller, Hans-Georg *see* **He, Guozhong et al., 2005f:62098**
Müller, Marlene *see* **Härdle, Wolfgang K. et al., 2005a:62004**
Nason, Guy P. *see* **Barber, Stuart**
Neumeyer, Natalie A central limit theorem for two-sample U-processes. (English summary) **2005e:60051**
Ng, Pin *see* **Koenker, Roger**
Ojeda, J. L. *see* **Cristóbal Cristóbal, José Antonio et al., 2005g:62081**
Osher, Stanley (*with* Scherzer, Otmar) G-norm properties of bounded variation regularization. (English summary) **2005k:49006**
Ouyang, Desheng *see* **Li, Qi**[1], **2005m:62079**
Park, Chanseok *see* **Kulasekera, K. B., 2005e:62051**
Park, Dongryeon Robustness weight by weighted median distance. (English summary)
Patil, Prakash N. (*with* Speckman, Paul L.) Constrained kernel regression. (English summary)
Pergamenshchikov, Sergeĭ *see* **Gal'chuk, L. I., 2005d:62132**
Poirier, Dale J. *see* **Koop, Gary, (2005c:62005)**
Raimondo, Marc E. *see* **Donoho, David L., 2005h:42068**
Rivoirard, Vincent Thresholding procedure with priors based on Pareto distributions. (English summary) **2005c:62066**
Ruppert, David (*with* Wand, M. P.; Carroll, Raymond J.) ★ Semiparametric regression. **2005a:62012**
Samarov, Alexander (*with* Tsybakov, A. B.) Nonparametric independent component analysis. (English summary) **2005i:62069**
Sapatinas, Theofanis *see* **Angelini, Claudia**
Scaillet, O. Density estimation using inverse and reciprocal inverse Gaussian kernels. (English summary) **2005a:62107**
Scherzer, Otmar *see* **Osher, Stanley, 2005k:49006**
Sclocco, Tonino (*with* Di Marzio, Marco) A weighted polynomial regression method for local fitting of spatial data. (English summary)
Silverman, Bernard W. *see* **Johnstone, Iain M., 2005h:62027**
Speckman, Paul L. *see* **Patil, Prakash N.**
Sperlich, Stefan *see* **Härdle, Wolfgang K. et al., 2005a:62004**
Tsybakov, A. B. ★ Introduction à l'estimation non-paramétrique. (French) [Introduction to nonparametric estimation] **2005a:62007**
— *see also* **Samarov, Alexander, 2005i:62069**
Volf, Petr An application of nonparametric Cox regression model in reliability analysis: a case study. (English summary)
Walker, Stephen G. Modern Bayesian asymptotics. (English summary)
Wand, M. P. *see* **Ruppert, David et al., 2005a:62012**
Wang, Jane-Ling *see* **He, Guozhong et al., 2005f:62098**
Wang, Naisyin *see* **Liang, Hua, 2005m:62056**
Wang, Xue Li[1] (*with* Cui, Heng-jian) Local linear estimation in presence of auxiliary information. (English and Chinese summaries) **2005g:62069**
Wellner, Jon A. *see* **Giné, Evarist et al., 2005k:60060**
Werwatz, Axel *see* **Härdle, Wolfgang K. et al., 2005a:62004**
You, Jin Hong (*with* Chen, Gemai) Delete-group jackknife estimate in partially linear regression models with heteroscedasticity. (English summary) **2005a:62098**
Yuditskiĭ, A. B. (*with* Lambert-Lacroix, Sophie) Nonparametric confidence set estimation. (English summary) **2005k:62130**
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Berkes, István (*with* Horváth, Lajos; Hušková, Marie; Steinebach, Josef) Applications of permutations to the simulations of critical values. (English summary) **2005a:62113**
Breaz, Nicoleta On the smoothing parameter in case of data from multiple sources. (English summary) **2005f:62072**
Brown, Lawrence David (*with* Dasgupta, Anirban[1]; Marden, John; Politis, Dimitris N.) Characterizations, sub and resampling, and goodness of fit. (English summary) (*see* **2005i:62005**)
Chen, Chun-Hua[3] *see* **Chou, Chao-Yu et al.**
Chen, Gemai *see* **You, Jin Hong et al., 2005k:62114** *and* **2005k:62115**
Chen, Yuguo (*with* Xie, Junyi; Liu, Jun S.) Stopping-time resampling for sequential Monte Carlo methods. (English summary)
Chou, Chao-Yu (*with* Liu, Hui-Rong; Chen, Chun-Hua[3]) Interval estimation for the larger-the-better type of signal-to-noise ratio using bootstrap method. (English summary)
Dasgupta, Anirban[1] *see* **Brown, Lawrence David et al., (2005i:62005)**
Fang, Yixin *see* **Xu, Ruifeng, 2005k:62113**
Härdle, Wolfgang K. (*with* Huet, Sylvie; Mammen, Enno; Sperlich, Stefan) Bootstrap inference in semiparametric generalized additive models. (English summary) **2005a:62114**
He, Xuming (*with* Zhu, Li-Xing) A lack-of-fit test for quantile regression. (English summary) **2005d:62075**
Holmes, Susan (*with* Reinert, Gesine) Stein's method for the bootstrap. (English summary) **2005k:62111**
Horváth, Lajos (*with* Hušková, Marie) Testing for changes using permutations of U-statistics. (English summary) **2005j:62089**
— *see also* **Berkes, István et al., 2005a:62113**
Huet, Sylvie *see* **Härdle, Wolfgang K. et al., 2005a:62114**
Hušková, Marie *see* **Berkes, István et al., 2005a:62113** *and* **Horváth, Lajos, 2005j:62089**
Lahiri, Soumendra N. *see* **Nordman, Daniel J., 2005h:62127**
Liu, Hui-Rong *see* **Chou, Chao-Yu et al.**
Liu, Jun S. *see* **Chen, Yuguo et al.**
Machado, José A. F. (*with* Parente, Paulo) Bootstrap estimation of covariance matrices via the percentile method. (English summary)
Mammen, Enno *see* **Härdle, Wolfgang K. et al., 2005a:62114**
Marden, John *see* **Brown, Lawrence David et al., (2005i:62005)**

Nishiyama, Yoshihiko (*with* Robinson, Peter M.) The bootstrap and the Edgeworth correction for semiparametric averaged derivatives. (English summary) **2005k:62112**
Nordman, Daniel J. (*with* Lahiri, Soumendra N.) On optimal spatial subsample size for variance estimation. (English summary) **2005h:62127**
Paparoditis, Efstathios Frequency domain bootstrap for time series. (English summary) **2005b:62095**
Parente, Paulo *see* **Machado, José A. F.**
Politis, Dimitris N. *see* **Brown, Lawrence David et al.**, (2005i:62005)
Rao, J. N. K. (*with* Tausi, M.) Estimating function jackknife variance estimators under stratified multistage sampling. (English summary)
Reinert, Gesine *see* **Holmes, Susan**, 2005k:62111
Robinson, Peter M. *see* **Nishiyama, Yoshihiko**, 2005k:62112
Różański, Roman (*with* Zagdański, Adam) On the consistency of sieve bootstrap prediction intervals for stationary time series. (English summary) **2005h:62128**
Schechtman, Edna (*with* Wang, Suojin) Jackknifing two-sample statistics. (English summary) **2005b:62096**
Sperlich, Stefan *see* **Härdle, Wolfgang K. et al.**, 2005a:62114
Steinebach, Josef *see* **Berkes, István et al.**, 2005a:62113
Tausi, M. *see* **Rao, J. N. K.**
Wang, Suojin *see* **Schechtman, Edna**, 2005b:62096
Xie, Junyi *see* **Chen, Yuguo et al.**
Xu, Ruifeng (*with* Fang, Yixin) Randomly weighting bootstrap for censored regression models. (English and Chinese summaries) **2005k:62113**
You, Jin Hong (*with* Chen, Gemai) Block external bootstrap in partially linear models with nonstationary strong mixing error terms. (English and French summaries) **2005k:62114**
— (*with* Zhou, Xian; Chen, Gemai) Jackknifing in partially linear regression models with serially correlated errors. (English summary) **2005k:62115**
— (*with* Zhou, Xian) Bootstrap of a semiparametric partially linear model with autoregressive errors. (English summary) **2005j:62090**
Zagdański, Adam *see* **Różański, Roman**, 2005h:62128
Zhou, Xian *see* **You, Jin Hong et al.**, 2005j:62090 *and* 2005k:62115
Zhu, Li-Xing *see* **He, Xuming**, 2005d:62075

Items with secondary classifications in 62G09

Alba-Fernández, V. (*with* Ibáñez Pérez, María José; Jiménez-Gamero, M. D.) A bootstrap algorithm for the two-sample problem using trigonometric Hermite spline interpolation. (English summary) **2005c:62084**
Alonso, Andrés M. (*with* Peña, Daniel; Romo, Juan) On sieve bootstrap prediction intervals. (English summary) **2005a:62189**
Artiles-Romero, J. (*with* Hernández-Flores, C. N.; Luengo-Merino, I.; Saavedra-Santana, P.) Population spectrum comparison test. (English summary) **2005i:62123**
Cai, T. Tony (*with* Low, Mark G.) An adaptation theory for nonparametric confidence intervals. (English summary) **2005h:62143**
Capitanio, Antonella (*with* Conti, Pier Luigi) A Bayesian nonparametric approach to the estimation of the adjustment coefficient, with applications to insurance and telecommunications. (English summary) **2005g:62062**
Chen, Rong[1] *see* **Hjellvik, Vidar et al.**, 2005f:62138
Chen, Zhiqiang[1] (*with* Giné, Evarist) Another approach to asymptotics and bootstrap of randomly trimmed means. (English summary) **2005m:62107**
— (*with* Tyler, David E.) On the behavior of Tukey's depth and median under symmetric stable distributions. (English summary) **2005a:62085**
Conti, Pier Luigi *see* **Capitanio, Antonella**, 2005g:62062
Cook, R. Dennis Testing predictor contributions in sufficient dimension reduction. (English summary) **2005a:62109**
Crainiceanu, Ciprian M. (*with* Ruppert, David) Restricted likelihood ratio tests in nonparametric longitudinal models. (English summary) **2005k:62118**
Csörgő, Sándor On the complete convergence of bootstrap means. (English summary) **2005j:60056**
Derado, Gordana (*with* Mardia, Kanti V.; Pătrângenaru, Victor; Thompson, Hilary W.) A shape-based glaucoma index for tomographic images. (English summary) **2005k:62244**
Di Battista, Tonio (*with* Gattone, Stefano Antonio) Simultaneous inference on diversity of biological communities. (English summary)
Efron, Bradley The estimation of prediction error: covariance penalties and cross-validation. (English summary)
Fuh, Cheng-Der (*with* Ip, Edward H.) Bootstrap and Bayesian bootstrap clones for censored Markov chains. (English summary) **2005f:62129**
Gattone, Stefano Antonio *see* **Di Battista, Tonio**
Giné, Evarist *see* **Chen, Zhiqiang[1]**, 2005m:62107
González-Manteiga, Wenceslao (*with* Martínez-Miranda, M. D.; Pérez-González, A.) The choice of smoothing parameter in nonparametric regression through wild bootstrap. (English summary) **2005e:62050**
— *see also* **Lombardía, M. J. et al.**, 2005c:62074
Good, Phillip I. ★ Permutation, parametric and bootstrap tests of hypotheses. **2005f:62001**
Guan, Zhong[1] A semiparametric changepoint model. (English summary) **2005j:62077**
Hall, Peter G. (*with* Park, Byeong U.) Bandwidth choice for local polynomial estimation of smooth boundaries. (English summary) **2005m:62077**
Hernández-Flores, C. N. *see* **Artiles-Romero, J. et al.**, 2005i:62123
Hidalgo, Javier A bootstrap causality test for covariance stationary processes. (English summary) **2005k:62123**
Hjellvik, Vidar (*with* Chen, Rong[1]; Tjøstheim, Dag) Nonparametric estimation and testing in panels of intercorrelated time series. (English summary) **2005f:62138**
Holt, Melinda A. (*with* Stamey, James D.; Seaman, John W., Jr.; Young, Dean Max) A note on tests for interaction in quantal response data. (English summary)
Hušková, Marie Permutation principle and bootstrap in change point analysis. (English summary) (*see* **2005g:60006**)
Ibáñez Pérez, María José *see* **Alba-Fernández, V. et al.**, 2005c:62084
Ip, Edward H. *see* **Fuh, Cheng-Der**, 2005f:62129
Janssen, Paul (*with* Swanepoel, Jan; Veraverbeke, Noël) Bootstrapping modified goodness-of-fit statistics with estimated parameters. (English summary) **2005m:62097**
Jiménez-Gamero, M. D. *see* **Alba-Fernández, V. et al.**, 2005c:62084
Kałuszka, Marek (*with* Okolewski, A.; Szymanska, K.) Sharp bounds for L-statistics from dependent samples of random length. (English summary) **2005f:62079**
Liang, Hua *see* **Ren, Haobo**
Lin, Lu[2] (*with* Zhang, Run-Chu) Bootstrap wavelet in the nonparametric regression model with weakly dependent processes. (English summary) **2005b:62094**
Lombardía, M. J. (*with* González-Manteiga, Wenceslao; Prada-Sánchez, J. M.) Bootstrapping the Dorfman-Hall-Chambers-Dunstan estimator of a finite population distribution function. (English summary) **2005c:62074**
Low, Mark G. *see* **Cai, T. Tony**, 2005h:62143
Luengo-Merino, I. *see* **Artiles-Romero, J. et al.**, 2005i:62123
Ma, Shuangge Semiparametric regression with current status data. (English summary) **2005k:62230**
Mammen, Enno (*with* Nandi, Swagata[2]) Bootstrap and resampling. (*see* **2005g:62004**)
Mardia, Kanti V. *see* **Derado, Gordana et al.**, 2005k:62244
Martínez-Miranda, M. D. *see* **González-Manteiga, Wenceslao et al.**, 2005e:62050
Modarres, Reza Estimation of a bivariate symmetric distribution function. (English summary) **2005a:62093**
Morgenthaler, Stephan (*with* Welsch, R. E.; Zenide, A.) Algorithms for robust model selection in linear regression. (English summary) (*see* **2005c:62006**)
Nandi, Swagata[2] *see* **Mammen, Enno**, (2005g:62004)
Okolewski, A. *see* **Kałuszka, Marek et al.**, 2005f:62079
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Pérez-González, A. *see* **González-Manteiga, Wenceslao et al.**, 2005e:62050
Pinheiro, Aluísio *see* **Pinheiro, Hildete Prisco et al.**
Pinheiro, Hildete Prisco (*with* Pinheiro, Aluísio; Sen, Pranab Kumar[1]) Comparison of genomic sequences using the Hamming distance. (English summary)
Prada-Sánchez, J. M. *see* **Lombardía, M. J. et al.**, 2005c:62074
Radulović, Dragan Renewal type bootstrap for Markov chains. (English summary) **2005g:62143**
Ren, Haobo (*with* Liang, Hua) Heteroscedasticity check with application in systemic inflammatory response syndrome study. (English summary)
Romo, Juan *see* **Alonso, Andrés M. et al.**, 2005a:62189
Ruppert, David *see* **Crainiceanu, Ciprian M.**, 2005k:62118
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Seaman, John W., Jr. *see* **Holt, Melinda A. et al.**
Sen, Pranab Kumar[1] *see* **Pinheiro, Hildete Prisco et al.**
Stamey, James D. *see* **Holt, Melinda A. et al.**
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Tjøstheim, Dag *see* **Hjellvik, Vidar et al.**, 2005f:62138
Tyler, David E. *see* **Chen, Zhiqiang[1]**, 2005a:62085
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Young, Dean Max *see* **Holt, Melinda A. et al.**
Zenide, A. *see* **Morgenthaler, Stephan et al.**, (2005c:62006)
Zhang, Biao[2] Assessing goodness-of-fit of categorical regression models based on case-control data. (English summary)
Zhang, Run-Chu *see* **Lin, Lu[2]**, 2005b:62094

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Abramovich, Felix (*with* Antoniadis, Anestis; Sapatinas, Theofanis; Vidakovic, Brani) Optimal testing in a fixed-effects functional analysis of variance model. (English summary)
Abrevaya, Jason (*with* Jiang, Wei[4]) A nonparametric approach to measuring and testing curvature. (English summary) **2005h:62129**
Abu-Dayyeh, Walid A. (*with* Al-Momani, Marwan A.; Muttlak, Hassen A.) Exact Bahadur slope for combining independent tests for exponential distribution using simple random sampling and ranked set sampling data. (English summary) **2005k:62116**
Abu-Youssef, S. E. Nonparametric test for monotone variance residual life class of life distributions with hypothesis testing applications. (English summary) **2005e:62063**
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Al-Momani, Marwan A. *see* **Abu-Dayyeh, Walid A. et al.**, 2005k:62116
Aly, Emad-Eldin A. A. Change point detection based on L-statistics. (English summary) **2005j:62091**
— *see also* **BuHamra, Sana S.**
Anis, M. Z. (*with* Mitra, Murari) A simple test of exponentiality against NWBUE family of life distributions. (English summary)
Antolini, Laura (*with* Nam, Byung-Ho; D'Agostino, Ralph B.) Inference on correlated discrimination measures in survival analysis: a nonparametric approach. (English summary)
Antoniadis, Anestis *see* **Abramovich, Felix et al.**
Arghami, N. R. *see* **Emadi, M.**, 2005c:62078
Baek, Jangsun Goodness-of-fit test using local maximum likelihood polynomial estimator for sparse multinomial data. (English summary) **2005k:62117**
Baklizi, Ayman On distribution free runs for bivariate symmetry. (English summary)
Balakrishnan, Narayanaswamy *see* **Cheng, Wei-Hou** *and* **Ng, H. K. T.**
Bandyopadhyay, Uttam (*with* Das, Radhakanta) A progressive censored test for the generalised Behrens-Fisher problem. (English summary) **2005e:62064**
Bathke, Arne Testing monotone effects of covariates in nonparametric mixed models. (English summary) **2005j:62092**
Beyersmann, Jan (*with* Janssen, Arnold; Mayer, Claus-Dieter) Efficient rank tests for semiparametric competing risk models. (English summary) **2005j:62093**
Boero, Gianna (*with* Smith, Jeremy; Wallis, Kenneth F.) Decompositions of Pearson's chi-squared test. (English summary)

Bravo, Francesco Empirical likelihood based inference with applications to some econometric models. (English summary) **2005d:62076**

BuHamra, Sana S. (*with* Aly, Emad-Eldin A. A.) Nonparametric change point tests for LTRC data. (English summary)

Burgio, Giuseppe[1] (*with* Nikitin, Ya. Yu.) On the combination of the sign and Maesono tests for symmetry and its efficiency. (English and Italian summaries)

Burke, Murray D. Testing regression models: a strong martingale approach. (English summary) **2005i:62072**

Bussières, Isabelle *see* **Larocque, Denis**, (**2005m:62007**)

Callegari, Francesca (*with* Akritas, Michael G.) Rank tests for patterned alternatives in two-way non-parametric analysis of variance. (English summary)

Calvin, James A. *see* **Guan, Yongtao et al.**, **2005d:62078**

Cator, Eric A. On the testability of the car assumption. (English summary) **2005h:62130**

Chebana, Fateh On the optimization of the weighted Bickel-Rosenblatt test. (English summary) **2005d:62077**

Chen, Guang-lei (*with* Cui, Heng-jian) The testing for normality based on PP-skewness and PP-kurtosis in EV model. (English and Chinese summaries) **2005b:62097**

Chen, L. C. *see* **Cheng, K. F.**

Chen, Xun (*with* Luo, Xiaohui) Some modifications on the application of the exact Wilcoxon-Mann-Whitney test. (English summary)

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Cheng, Chi Lun (*with* Kukush, A. G.) A goodness-of-fit test for a polynomial errors-in-variables model. (English and Ukrainian summaries) **2005i:62073**

Cheng, K. F. (*with* Chen, L. C.) Testing goodness-of-fit of a logistic regression model with case-control data. (English summary)

Cheng, Wei-Hou (*with* Balakrishnan, Narayanaswamy) A modified sign test for symmetry. (English summary)

Chong, Kihun (*with* Song, Ha Yoon; Noh, Sam H.) Traffic characterization of the web server attacks of worm viruses. (English summary) **2005m:62095**

Claeskens, Gerda (*with* Hjort, Nils Lid) Goodness of fit via non-parametric likelihood ratios. (English summary) **2005f:62073**

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— (*with* Ruppert, David) Restricted likelihood ratio tests in nonparametric longitudinal models. (English summary) **2005k:62118**

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Dewan, Isha (*with* Prakasa Rao, B. L. S.) Wilcoxon-signed rank test for associated sequences. (English summary) **2005k:62119**

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Einmahl, J. H. J. (*with* Omolo, B. O.; Puri, M. L.; Ruymgaart, Frits H.) Aligned rank statistics for repeated measurement models with orthonormal design, employing a Chernoff-Savage approach. (English summary) **2005j:62095**

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Ferger, Dietmar Maximal asymptotic power and efficiency of two-sample tests based on generalized U-statistics. (English summary) **2005j:62096**

— A two-dimensional Cramér-von Mises test for the two-sample problem with dispersion alternatives. (English summary) **2005j:62097**

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— (*with* Meintanis, Simos G.) Recent and classical tests for exponentiality: a partial review with comparisons. (English summary)

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— *see also* **Beyersmann, Jan et al.**, **2005j:62093**

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Keziou, Amor (*with* Leoni-Aubin, Samuela) Test of homogeneity in semiparametric two-sample density ratio models. (English and French summaries)

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Kim, Tae Soo (*with* Lee, Joung Nam; Kim, Jong Hyouk) On the combinations of random number generators and empirical tests. (English summary)

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Laïb, Naâmane Non-parametric testing of conditional variance functions in time series. (English summary) **2005b:62101**

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Larocque, Denis (*with* Bussières, Isabelle) Aligned rank test for the bivariate randomized block model. (English summary) (*see* **2005m:62007**)

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Li, Wai-Keung *see* **Xia, Yingcun et al.**, **2005c:62081**

Li, Xiao Hu (*with* Qiu, Guo-xin; Ling, Ling[1]) A simple nonparametric test for right spread order. (English and Chinese summaries)

— A new test procedure for new better than used in increasing convex ordering. (English summary) **2005j:62098**

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Liero, Hannelore Goodness of fit tests of L_2-type. (English summary) (*see* **2005d:62008**)

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Linton, Oliver B. (*with* Maasoumi, Esfandiar; Whang, Yoon-Jae) Consistent testing for stochastic dominance under general sampling schemes. (English summary) **2005m:62098**

Liu, Wen Li (*with* Lü, Shu Long) Some properties of the least simple estimate. (Chinese. English and Chinese summaries)

López Palomo, María Jesús (*with* Domínguez Menchero, José Santos) An isotonicity test for the regression function. (Spanish. English and Spanish summaries) **2005i:62077**

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Marhuenda, Yolanda (*with* Morales, Domingo; Pardo Llorente, Julio Ángel; Pardo, María del Carmen) On the selection of the best Rukhin's statistic for the uniform exact distribution function. (*see* **2005i:62007**)
Marozzi, Marco An extension of the ordinary permutation solution of the two-sample location problem. (English and Italian summaries)
Martynov, Gennadiĭ V. *see* **Deheuvels, Paul, 2005i:62074**
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— Permutation tests for homogeneity based on the empirical characteristic function. (English summary)
— Consistent tests for symmetric stability with finite mean based on the empirical characteristic function. (English summary) **2005f:62074**
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Mitra, Murari *see* **Anis, M. Z.**
Monarev, V. A. (*with* Ryabko, B. Ya.) Experimental analysis of pseudorandom number generators using a new statistical test. (Russian. Russian summary)
Montenegro, Manuel (*with* González-Rodríguez, Gil; Colubi, Ana; Gil, María Angeles) Bootstrap approach to test the linear independence between interval-valued random sets. **2005j:62099**
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Morris, K. W. (*with* Szynal, Dominik) Goodness-of-fit tests using dual versions of characterizations via moments of order statistics. **2005k:62127**
— (*with* Szynal, Dominik) Goodness-of-fit tests using dual versions of characterizations via moments of record values. **2005j:62100**
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— (*with* Pestunov, A. I.) "Book stack" as a new statistical test for random numbers. (Russian. Russian summary) **2005m:62100**
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Shetty, I. D. (*with* Pandit, Parameshwar V.) Distribution-free tests for independence against positive quadrant dependence: a generalization. (English summary)
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Taskinen, S. (*with* Kankainen, A.; Oja, Hannu) Rank scores tests of multivariate independence. (English summary) (*see* **2005c:62006**)
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Wang, Haiyan (*with* Akritas, Michael G.) Rank tests for ANOVA with large number of factor levels. (English summary) **2005e:62070**
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Wludyka, Peter (*with* Sa, Ping) A robust I-sample analysis of means type randomization test for variances for unbalanced designs. (English summary)
Wu, Ji Hua (*with* Xie, Min Yu; Peng, Rong; Sun, Zhi Hua) Goodness-of-fit test with genetic background. (English summary)
Xia, Yingcun (*with* Li, Wai-Keung; Tong, Howell; Zhang, Dixin) A goodness-of-fit test for single-index models. (English summary) **2005c:62081**
Xiao, Gang Jing Asymptotic powers of k-sample tests for umbrella hypotheses. (Chinese. English and Chinese summaries) **2005a:62119**
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Zhang, Biao[2] Assessing goodness-of-fit of categorical regression models based on case-control data. (English summary)
Zhang, Chunming Assessing the equivalence of nonparametric regression tests based on spline and local polynomial smoothers. (English summary) **2005c:62082**
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Acín, Antonio (*with* Bagan, E.; Baig, Mariano; Masanes, Ll.; Muñoz-Tapia, R.) Multiple-copy two-state discrimination with individual measurements. (English summary) **2005m:81014**

Ahmad, Ibrahim A. (*with* Alwasel, Ibrahim A.) Goodness-of-fit testing of a weak memoryless property of life distributions. (English summary) **2005i:62139**

— A simple and more efficient new approach to life testing. (English summary) **2005g:62173**

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Anwar, Faisal *see* **Javed, Qasim et al.**

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Artiles-Romero, J. (*with* Hernández-Flores, C. N.; Luengo-Merino, I.; Saavedra-Santana, P.) Population spectrum comparison test. (English summary) **2005i:62123**

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Basso, D. (*with* Salmaso, L.; Evangelaras, H.; Koukouvinos, Christos) Nonparametric testing for main effects on inequivalent designs. (English summary) (*see* **2005f:62009**)

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Corain, L. (*with* Salmaso, L.) An empirical study on new product development process by nonparametric combination (NPC) testing methodology and post-stratification. (English and Italian summaries)

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— (*with* Mukerjee, Hari) Consistent estimation of distributions with type II bias with applications in competing risks problems. (English summary) **2005d:62052**

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Tsao, Min A new method of calibration for the empirical loglikelihood ratio. (English summary) **2005h:62059**
— *see also* **Qin, Gengsheng et al.**
Zagdański, Adam *see* **Różański, Roman, 2005h:62128**

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Abraham, Christophe (*with* Biau, Gérard; Cadre, Benoît) On the asymptotic properties of a simple estimate of the mode. (English summary) **2005j:62105**
Baek, Jong Il *see* **Liang, Han Ying, 2005m:62103**
Belitser, Eduard On asymptotic expansion of pseudovalues in nonparametric median regression. (English summary) **2005f:62077**
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Cadre, Benoît *see* **Abraham, Christophe et al., 2005j:62105**
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Chen, Min[4] *see* **You, Jin Hong et al., 2005k:62133**
Deheuvels, Paul (*with* Mason, David M.) General asymptotic confidence bands based on kernel-type function estimators. (English summary) **2005k:62131**
van Es, A. J. (*with* Uh, H.-W.) Asymptotic normality of nonparametric kernel type deconvolution density estimators: crossing the Cauchy boundary. (English summary) **2005e:62071**
Hušková, Marie Permutation principle and bootstrap in change point analysis. (English summary) (*see* **2005g:60006**)
— (*with* Picek, Jan) Some remarks on permutation type tests in linear models. (English summary) **2005h:62135**
— (*with* Neuhaus, Georg) Change point analysis for censored data. (English summary) **2005m:62102**
— Weak invariance principles for regression rank statistics. (English summary) **2005d:62087**
Jang, Yu Seon *see* **Kim, Sung Kyun et al., 2005e:62072**
Jin, Zhezhen (*with* Ying, Zhiliang) Asymptotic theory in rank estimation for AFT model under fixed censorship. (English summary) **2005i:62079**
Kawaguchi, Atsushi Consistency of the correlation dimension estimator from a chaotic system. (English summary) **2005c:62083**
Kim, Sung Kyun (*with* Kim, Sung Lai; Jang, Yu Seon) Asymptotic approximation of kernel-type estimators with its application. (English summary) **2005e:62072**
Kim, Sung Lai *see* **Kim, Sung Kyun et al., 2005e:62072**
Li, Xue Fang *see* **Zhao, Xia**
Li, Yong Ming[2] (*with* Yang, Shan Chao) Asymptotic normality of the recursive kernel estimate of a probability density function under negative association. (Chinese. English and Chinese summaries) **2005h:62136**
Liang, Han Ying (*with* Baek, Jong Il) Asymptotic normality of recursive density estimates under some dependence assumptions. (English summary) **2005m:62103**
Ling, Neng Xiang Strong convergence and its rate of modified partitioning estimation for nonparametric regression function under dependence samples. (English summary) **2005e:62073**
Lu, Yi Qiang (*with* Zeng, Lin Rui) Convergence rate of B-spline M-estimators in a varying-coefficient model. (Chinese. English and Chinese summaries) **2005h:62137**
Maĭboroda, R. Ē. (*with* Sugakova, O. V.) Limit distribution of dynamic programming estimates for multiple change points. (Ukrainian. Ukrainian summary) **2005j:62106**
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Pardo, Leandro Bahadur efficiency of the Phi-divergence test statistic. **2005k:62132**
Park, Hyo-Il (*with* Na, Jong-Hwa) Convergence of weighted *U*-empirical processes. (English summary) **2005m:62104**
Penev, Spiridon (*with* Peng, Hanxiang; Schick, Anton; Wefelmeyer, Wolfgang) Efficient estimators for functionals of Markov chains with parametric marginals. (English summary) **2005a:62121**
Peng, Hanxiang *see* **Penev, Spiridon et al., 2005a:62121**
Picek, Jan *see* **Hušková, Marie, 2005h:62135**
Schick, Anton *see* **Penev, Spiridon et al., 2005a:62121**
Shurenkov, G. Asymptotics of median estimates for multiple change points. (Ukrainian. Ukrainian summary) **2005j:62107**
Sugakova, O. V. *see* **Maĭboroda, R. Ē., 2005j:62106**
Uh, H.-W. *see* **van Es, A. J., 2005e:62071**
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Ying, Zhiliang *see* **Jin, Zhezhen, 2005i:62079**
You, Jin Hong (*with* Chen, Min[4]; Chen, Gemai) Asymptotic normality of some estimators in a fixed-design semiparametric regression model with linear time series errors. (English summary) **2005k:62133**
Yu, Qiqing (*with* Wong, George Y. C.) Asymptotic properties of the generalized semi-parametric MLE in linear regression. (English summary) **2005b:62107**
Zeng, Lin Rui *see* **Lu, Yi Qiang, 2005h:62137**
Zhang, Biao[2] A note on the asymptotic normality of kernel density estimators under random censorship. (English summary) **2005m:62105**
Zhang, Haimeng Asymptotic efficiency of estimation in the partial Koziol-Green model. (English summary) **2005e:62074**
Zhang, Jiantong Sieve estimates via neural network for strong mixing processes. (English summary) **2005b:62108**
Zhao, Xia (*with* Li, Xue Fang) Strong consistency of improved kernel regression function estimate under dependent samples. (Chinese. English and Chinese summaries)

Items with secondary classifications in 62G20

Abramovich, Felix (*with* Antoniadis, Anestis; Sapatinas, Theofanis; Vidakovic, Brani) Optimal testing in a fixed-effects functional analysis of variance model. (English summary)
Ahmad, Ibrahim A. (*with* Alwasel, Ibrahim A.) Goodness-of-fit testing of a weak memoryless property of life distributions. (English summary) **2005i:62139**
— A simple and more efficient new approach to life testing. (English summary) **2005g:62173**
— (*with* Ran, Iris S.) Kernel contrasts: a data-based method of choosing smoothing parameters in nonparametric density estimation. (English summary) **2005h:62121**
— (*with* Ran, Iris S.) Data based bandwidth selection in kernel density estimation with parametric start via kernel contrasts. (English summary) **2005i:62065**
Akritas, Michael G. *see* **Callegari, Francesca**
Alvarez-Andrade, Sergio (*with* Bordes, Laurent) Empirical quantile process under type-II progressive censoring. (English summary) **2005b:62109**
Alwasel, Ibrahim A. *see* **Ahmad, Ibrahim A., 2005i:62139**
Aly, Emad-Eldin A. A. Change point detection based on *L*-statistics. (English summary) **2005j:62091**
Anevski, Dragi Estimating the derivative of a convex density. (English summary) **2005f:62059**
Anisimov, Vladimir V. (*with* Fedorov, Valerii V.) Asymptotic properties of the CRT estimators for multicentre studies. (English summary) (*see* **2005d:62008**)
Antoniadis, Anestis *see* **Abramovich, Felix et al.**
Bae, Jongsig (*with* Kim, Sungyeun) The uniform consistency of the sample kernel quantile process. (English summary) **2005f:60074**
Bandyopadhyay, Uttam (*with* Das, Radhakanta) A progressive censored test for the generalised Behrens-Fisher problem. (English summary) **2005e:62064**
Barakat, Haroon M. (*with* El-Shandidy, Mouhamed A.) Order statistics with random sample size. (English summary) **2005k:62134**
Bathke, Arne Testing monotone effects of covariates in nonparametric mixed models. (English summary) **2005j:62092**
Beirlant, Jan (*with* Raoult, J.-P.; Worms, R.) On the relative approximation error of the generalized Pareto approximation for a high quantile. (English summary) **2005m:60112**
Berkes, István (*with* Horváth, Lajos; Kokoszka, P. S.) Probabilistic and statistical properties of GARCH processes. (English summary) **2005k:62199**
— (*with* Horváth, Lajos; Hušková, Marie; Steinebach, Josef) Applications of permutations to the simulations of critical values. (English summary) **2005a:62113**
Berlinet, Alain (*with* Biau, Gérard) Iterated modified histograms as dynamical systems. (English summary) **2005g:62061**
Bertin, Karine Minimax exact constant in sup-norm for nonparametric regression with random design. (English summary) **2005d:62047**
Beyersmann, Jan (*with* Janssen, Arnold; Mayer, Claus-Dieter) Efficient rank tests for semiparametric competing risk models. (English summary) **2005j:62093**
Bhattacharya, Debopam Asymptotic inference from multi-stage samples. (English summary)
Biau, Gérard *see* **Berlinet, Alain, 2005g:62061**
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— *see also* **Bosq, Denis, 2005e:62055**
Bordes, Laurent *see* **Alvarez-Andrade, Sergio, 2005b:62109**
Bosq, Denis (*with* Blanke, Delphine) Local superefficiency of data-driven projection density estimators in continuous time. (English and Catalan summaries) **2005e:62055**
Bravo, Francesco Empirical likelihood based inference with applications to some econometric models. (English summary) **2005d:62076**
Buskirk, Trent D. (*with* Lohr, Sharon L.) Asymptotic properties of kernel density estimation with complex survey data. (English summary) **2005h:62036**
Butucea, Cristina Deconvolution of supersmooth densities with smooth noise. (English and French summaries) **2005f:62060**
— Asymptotic normality of the integrated square error of a density estimator in the convolution model. (English and Catalan summaries) **2005j:62072**
Callegari, Francesca (*with* Akritas, Michael G.) Rank tests for patterned alternatives in two-way non-parametric analysis of variance. (English summary)
Cao, Ricardo (*with* López-De-Ullibarri, Ignacio; Janssen, Paul; Veraverbeke, Noël) Presmoothed Kaplan-Meier and Nelson-Aalen estimators. (English summary) **2005m:62087**
Carroll, Raymond J. *see* **Lin, Xihong et al., 2005a:62111** *and* **Hu, Zonghui et al.,**

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Chan, Wen-Yaw *see* **Lai, Yi-Hsuan et al., 2005c:62061**
Chang, Tzu-Kuei (*with* Deng, Wen-Shuenn; Lin, Jung-Huei; Chu, Chih Kang) Integrated cross-validation for the random design nonparametric regression. (English summary) **2005i:62070**
Chattopadhyay, Gopaldeb Randomized play-the-winner rule for ordered categorical data. (English summary) **2005k:62243**
Chebana, Fateh On the optimization of the weighted Bickel-Rosenblatt test. (English summary) **2005d:62077**
Chen, Gemai *see* **You, Jin Hong et al., 2005h:62120** *and* **2005k:62115**
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Chen, L. C. *see* **Cheng, K. F.**
Chen, Lin-An *see* **Lai, Yi-Hsuan et al., 2005c:62061**
Chen, Sy-Mien (*with* Hsu, Yu-Sheng) Kernel density estimations for maximum of two independent random variables. (English summary) **2005d:62064**
Chen, Zhiqiang[1] (*with* Giné, Evarist) Another approach to asymptotics and bootstrap of randomly trimmed means. (English summary) **2005m:62107**
— (*with* Tyler, David E.) On the behavior of Tukey's depth and median under symmetric stable distributions. (English summary) **2005a:62085**
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Cheng, K. F. (*with* Chen, L. C.) Testing goodness-of-fit of a logistic regression model with case-control data. (English summary)
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Dalalyan, Arnak S. (*with* Kutoyants, Yurii) On second order minimax estimation of invariant density for ergodic diffusion. (English summary) **2005f:62128**
Das, Mitali Simple estimators for nonparametric panel data models with sample attrition. (English summary) **2005a:62087**
Das, Radhakanta *see* **Bandyopadhyay, Uttam, 2005e:62064**
Dauxois, Jean-Yves *see* **Kirmani, Syed N. U. A., 2005c:62080**
Dehay, D. (*with* Kutoyants, Yurii) On confidence intervals for distribution function and density of ergodic diffusion process. (English summary) **2005d:62131**
Deheuvels, Paul (*with* Martynov, Gennadiĭ V.) Karhunen-Loève expansions for weighted Wiener processes and Brownian bridges via Bessel functions. (English summary) **2005i:62074**
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Doksum, Kjell A. *see* **Jiang, Jiancheng, 2005b:62072**
Donoho, David L. (*with* Jin, Jiashun) Higher criticism for detecting sparse heterogeneous mixtures. (English summary) **2005e:62066**
Draghicescu, Dana (*with* Ghosh, Sucharita) Smooth nonparametric quantiles. (English summary) **2005f:62136**
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Ducharme, Gilles R. (*with* Ledwina, Teresa) Efficient and adaptive nonparametric test for the two-sample problem. (English summary) **2005c:62077**
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Ferger, Dietmar On the almost sure convergence of maximum likelihood-type estimators for a change-point. (English summary) **2005a:62057**
— A functional law of the iterated logarithm for U-statistic type processes. (English summary) **2005b:60082**
— Maximal asymptotic power and efficiency of two-sample tests based on generalized U-statistics. (English summary) **2005j:62096**
— A two-dimensional Cramér-von Mises test for the two-sample problem with dispersion alternatives. (English summary) **2005j:62097**
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Freitag, Gudrun *see* **Munk, Axel et al.**
Fung, Wing Kam *see* **Zhu, Zhong Yi, 2005c:62076**
Genest, Christian (*with* Werker, Bas J. M.) Conditions for the asymptotic semiparametric efficiency of an omnibus estimator of dependence parameters in copula models. (English summary) (*see* **2005a:62016**)
Ghorai, J. K. (*with* Yu, Dong[1]) Data-based resolution selection in positive wavelet density estimation. (English summary) **2005m:62089**
Ghosh, Sucharita *see* **Draghicescu, Dana, 2005f:62136**
Giné, Evarist (*with* Koltchinskii, Vladimir; Zinn, Joel) Weighted uniform consistency of kernel density estimators. (English summary) **2005d:62067**
— (*with* Koltchinskii, Vladimir; Sakhanenko, Lyudmila) Kernel density estimators: convergence in distribution for weighted sup-norms. (English summary) **2005i:62067**
— *see also* **Chen, Zhiqiang[1], 2005m:62107**
Girard, Stéphane (*with* Jacob, Pierre M.) Extreme values and kernel estimates of point processes boundaries. (English summary) **2005h:60151**
Goldenshluger, Alexander (*with* Tsybakov, A. B.) Optimal prediction for linear regression with infinitely many parameters. (English summary) **2005d:62153**
— (*with* Tsybakov, A. B.) Estimating the endpoint of a distribution in the presence of additive observation errors. (English summary) **2005b:62084**
Goldstein, Larry Mark (*with* Rinott, Yosef) A permutation test for matching and its asymptotic distribution. (English summary) **2005e:62067**
Golubev, Yuri K. (*with* Levit, Boris) An oracle approach to adaptive estimation of linear functionals in a Gaussian model. (English summary) **2005k:62089**
Gomes, Antonio Eduardo Asymptotics for a weighted least squares estimator of the disease onset distribution function for a survival-sacrifice model. (English summary) **2005k:62245**
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Grané, A. (*with* Fortiana, Josep) Maximum correlations and tests of goodness-of-fit. (English summary) (*see* **2005a:62016**)
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Hall, Peter G. (*with* Minnotte, Michael C.; Zhang, Chunming) Bump hunting with non-Gaussian kernels. (English summary) **2005f:62064**
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Härdle, Wolfgang K. *see* **Wang, Qi-Hua et al., 2005e:62053**
Harel, Michel (*with* Elharfaoui, Echarif) La convergence faible des U-statistiques multivariées pour des processus non stationnaires. (English and French summaries) [Weak convergence of multivariate U-statistics for nonstationary processes] **2005a:60033**
Hazelton, Martin Density estimation from aggregate data. (English summary) **2005e:62056**
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He, Shu Yuan (*with* Wong, Heung) Central limit theorem of linear regression model under right censorship. (English summary) **2005d:62056**
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Henmi, Masayuki A paradoxical effect of nuisance parameters on efficiency of estimators. (English summary) **2005f:62042**
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— (*with* Meintanis, Simos G.) Recent and classical tests for exponentiality: a partial review with comparisons. (English summary)
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Hu, Zonghui (*with* Wang, Naisyin; Carroll, Raymond J.) Profile-kernel versus backfitting in the partially linear models for longitudinal/clustered data. (English summary) **2005c:62114**
Huang, Jianhua Z. (*with* Wu, Colin O.; Zhou, Lan[1]) Polynomial spline estimation and inference for varying coefficient models with longitudinal data. (English summary) **2005k:62090**
Huh, Jib Nonparametric discontinuity point estimation in generalized linear model. (English summary) **2005b:62093**
Hui, Y. V. *see* **Jiang, Jiancheng, 2005m:62163**
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Ingster, Yu. I. (*with* Lepskiĭ, O. V.) Multichannel nonparametric signal detection. (English summary) **2005b:94013**
— (*with* Suslina, I. A.) Nonparametric hypothesis testing for small type I errors. I. (English summary) **2005k:62124**
Ioannides, Dimitrios A. Fixed design regression quantiles for time series. (English summary) **2005h:62112**
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Janssen, Paul *see* **Cao, Ricardo et al., 2005m:62087**
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Johnstone, Iain M. (*with* Silverman, Bernard W.) Boundary coiflets for wavelet shrinkage in function estimation. (English summary) **2005k:62104**
— (*with* Kerkyacharian, Gérard; Picard, Dominique; Raimondo, Marc E.) Wavelet

deconvolution in a periodic setting. (English summary) **2005f:42087**

Kauermann, Göran A note on smoothing parameter selection for penalized spline smoothing. (English summary)

Kerkyacharian, Gérard *see* **Johnstone, Iain M. et al., 2005f:42087**

Khasminskii, R. Z. Nonlinear filtering of smooth signals. (English summary) **2005k:62091**

Kim, Sungyeun *see* **Bae, Jongsig, 2005f:60074**

Kim, Tae Yoon (*with* Park, Cheolyong; Hwang, Sun Young) New view on smoothing parameter selector in function estimation. (English summary)

Kim, Yongdai (*with* Lee, Jaeyong) A Bernstein-von Mises theorem in the nonparametric right-censoring model. (English summary) **2005i:62021**

Kirmani, Syed N. U. A. (*with* Dauxois, Jean-Yves) Testing the Koziol-Green model against monotone conditional odds for censoring. (English summary) **2005c:62080**

Kitamura, Yuichi[2] *see* **Tripathi, Gautam, 2005b:62103**

Klaassen, Chris A. J. Asymptotically most accurate confidence intervals in the semiparametric symmetric location model. (English summary) **2005m:62101**

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Klemelä, Jussi (*with* Tsybakov, A. B.) Exact constants for pointwise adaptive estimation under the Riesz transform. (English summary) **2005m:62078**

— Adaptive estimation of the mode of a multivariate density. (English summary) **2005m:62090a**

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Kůs, Václav Nonparametric density estimates consistent of the order of $n^{-1/2}$ in the L_1-norm. (English summary) **2005f:62065**

Kutoyants, Yurii On invariant density estimation for ergodic diffusion processes. (English summary)

— *see also* **Dehay, D., 2005d:62131** *and* **Dalalyan, Arnak S., 2005f:62128**

Lai, Yi-Hsuan (*with* Chen, Lin-An; Chan, Wen-Yaw) Generalized and feasible generalized median estimators for the linear regression with AR(1) error model. (English summary) **2005c:62061**

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Ledwina, Teresa *see* **Ducharme, Gilles R., 2005c:62077**

Lee, Jaeyong *see* **Kim, Yongdai, 2005i:62021**

Lee, Sungho (*with* Taylor, Robert Lee) On an L_1 consistent wavelet density estimator for the deconvolution problem. (English summary) **2005d:62070**

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Lepskiĭ, O. V. *see* **Ingster, Yu. I., 2005b:94013**

Levit, Boris (*with* Stepanova, N.) Efficient estimation of multivariate analytic functions in cube-like domains. (English summary) **2005i:62060**

— *see also* **Golubev, Yuri K., 2005k:62089**

Li, Hui[8] *see* **Zhou, Yong[2], 2005f:62068**

Li, Xiao Hu (*with* Qiu, Guo-xin; Ling, Ling[1]) A simple nonparametric test for right spread order. (English and Chinese summaries)

Li, Yong Ming[2] (*with* Yang, Shan Chao) Consistency of recursive estimator for distribution function under negatively associated samples. (English and Chinese summaries) **2005h:62114**

Lin, Jung-Huei *see* **Chang, Tzu-Kuei et al., 2005i:62070**

Lin, Xihong (*with* Wang, Naisyin; Welsh, Alan H.; Carroll, Raymond J.) Equivalent kernels of smoothing splines in nonparametric regression for clustered/longitudinal data. (English summary) **2005a:62111**

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"Adaptive estimation of the mode of a multivariate density" Erratum: "Adaptive estimation of the mode of a multivariate density" [J. Nonparametr. Stat. **17** (2005), no. 1, 83–105; MR2112688 (2005m:62090a)] by J. Klemelä. **2005m:62090b**

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Singh, L. S. (*with* Gopinath Rao, M.) Moments of order statistics of beta distribution. (English summary)
Spizzichino, Fabio *see* **Shaked, Moshe et al., 2005m:62108**
Sultan, Khalaf Salman *see* **Mahmoud, Mohamed Abdel Wahab et al., 2005c:62090**
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Tarsitano, Agostino A new class of inequality measures based on a ratio of L-statistics. (English summary)
Utzet, Frederic *see* **del Barrio, Eustasio et al., 2005k:62135**
Wesołowski, Jacek (*with* Ahsanullah, Mohammad) Switching order statistics through random power contractions. (English summary) **2005f:62083**
Wu, Wei Biao Empirical processes of long-memory sequences. (English summary) **2005f:62084**
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Zhang, Dixin A local probability exponential inequality for the large deviation of an empirical process indexed by an unbounded class of functions and its application. (English summary) **2005m:62109**
Zhang, Zhenlong *see* **Gao, Shesheng et al., 2005g:62085**
Zhao, Lin Cheng (*with* Xu, Jinfeng) Weak convergence of weighted empirical cumulative quantile regression functions. (English and Chinese summaries) **2005m:62110**
Zhu, Zegang *see* **Hu, Taizhong, 2005a:62123**

Items with secondary classifications in 62G30

Abu-Lawi, Lina N. *see* **Raqab, Mohammad Z., 2005k:62043**
Adell, José Antonio (*with* Sangüesa, C.) Approximation by B-spline convolution operators. A probabilistic approach. (English summary) **2005g:41052**
Adler, André Limit theorems for arrays of minimal order statistics. (English summary) **2005f:60073**
— Exact laws for randomly selected order statistics. (English summary) **2005k:60093**
Ahsanullah, Mohammad A characterization of the uniform distribution by dual generalized order statistics. (English summary) **2005m:62024**
— (*with* Raqab, Mohammad Z.) Characterizations of distributions by conditional expectations of generalized order statistics. (English summary) **2005g:62024**
— (*with* Nevzorov, V. B.) ★ Order statistics: examples and exercises. **2005m:62001**
— *see also* **Nevzorov, V. B., 2005h:62046** *and* **Raqab, Mohammad Z.**
Akhundov, Ilham (*with* Balakrishnan, Narayanaswamy; Nevzorov, V. B.) New characterizations by properties of midrange and related statistics. (English summary) **2005m:62025**
Aliev, Fazil Alioglu On characterizations of continuous distributions through order statistics. (English summary) **2005m:62026**
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Arcones, Miguel A. Large deviations of empirical processes. (English summary) **2005a:60035**
Aryal, Gokarna (*with* Nadarajah, Saralees) On the skew Laplace distribution. (English summary)
Askar, M. M. *see* **Barakat, Haroon M. et al., 2005f:62085**
Athar, Haseeb (*with* Yaqub, M.; Islam, H. M.) On characterization of distributions through linear regression of record values and order statistics. (English summary) **2005k:62027**
— *see also* **Khan, Abdul Hamid, 2005m:62030**
Bae, Jongsig (*with* Kim, Sungyeun) The uniform consistency of the sample kernel quantile process. (English summary) **2005f:60074**
Baggs, Geraldine E. *see* **Nagaraja, H. N., 2005h:62267**
Baglivo, Jenny A. ★ *Mathematica* laboratories for mathematical statistics. **2005h:62002**
Bai, Zhi-Dong (*with* Silverstein, Jack W.) CLT for linear spectral statistics of large-dimensional sample covariance matrices. (English summary) **2005b:60046**
Bakhtin, V. I. The action functional for Perron-Frobenius cascades. (Russian. English and Russian summaries) **2005k:37055**
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Balasubramanian, Krishnaswami (*with* Beg, Mirza Iftekhar) Three isomorphic vector spaces—applications to binomial identities, urn models and order statistics. (English summary) **2005e:60035**
Barakat, Haroon M. On the restricted convergence of the intermediate and central terms of order statistics. (English summary) **2005e:62023**
— (*with* Nigm, E. M.; Askar, M. M.) The trivariate extremes based on a random sample size. (English and Arabic summaries) **2005f:62085**
— (*with* Nigm, E. M.; El-Adll, Magdy E.) Asymptotic properties of random extremes under general normalization from nonidentical distributions. (English summary) **2005f:62086**
Bazargan-Lari, A. Distribution of the range when sample size has a GPED. (English summary) **2005d:62046**
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Beghin, Luisa On the maximum of some conditional and integrated Gaussian fields and their statistical applications. (English summary) **2005m:60107**
Belzunce, Félix (*with* Mercader, José-Angel; Ruiz Gómez, José Maria) Stochastic comparisons of generalized order statistics. (English summary) **2005i:60026**
Berred, A. (*with* Nevzorov, V. B.) Sampling without replacement: discrete analogues of some continuous distributions. (Russian. English and Russian summaries) **2005h:62042**
Bhaumik, Dulal K. *see* **Gibbons, Robert D. et al.**
Bieniek, Mariusz (*with* Szynal, Dominik) Characterizations of distributions via linearity of regression of generalized order statistics. (English summary) **2005a:62038**
— (*with* Szynal, Dominik) Characterizations based on k-th upper and lower record values. (English summary) **2005d:62022**
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Bulut, Yunus *see* **Güngör, Mehmet et al., 2005b:62037**
Chen, Hanfeng (*with* Chen, Zehua) Asymptotic properties of the remedian. (English summary) **2005j:62035**
Chen, Zehua *see* **Chen, Hanfeng, 2005j:62035**
Cheng, Wei-Hou (*with* Balakrishnan, Narayanaswamy) A modified sign test for symmetry. (English summary)
Cho, Nhansook (*with* Kwon, Youngmee) Central limit type theorem for weighted particle systems. (English summary) **2005e:60076**
Choi, Jai Won *see* **Nandram, Balgobin**
Collet, Pierre (*with* Martínez, Servet A.; Schmitt, Bernard) Asymptotic distribution of tests for expanding maps of the interval. (English summary) **2005e:37077**
Cox, David R. *see* **Gibbons, Robert D. et al.**

Cramer, Erhard *see* **Hofmann, Glenn et al., 2005j:62195**
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— (*with* Mason, David M.) General asymptotic confidence bands based on kernel-type function estimators. (English summary) **2005k:62131**
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Deng, Yu Hui Probability distribution of sample spacing. (Chinese. English and Chinese summaries) **2005h:60040**
Doukhan, Paul (*with* Lang, Gabriel; Surgailis, Donatas; Viano, Marie-Claude) Functional limit theorem for the empirical process of a class of Bernoulli shifts with long memory. (English summary) **2005m:60061**
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— *see also* **Feng, De-Jun, 2005a:62090**
Ferger, Dietmar A two-dimensional Cramér-von Mises test for the two-sample problem with dispersion alternatives. (English summary) **2005j:62097**
Galambos, Janos (*with* Simonelli, Italo) ★ Products of random variables. **2005g:60005**
Gather, Ursula (*with* Székely, Gábor J.) Characterizations of distributions by linear forms of order statistics. (English summary) **2005k:62032**
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Güngör, Mehmet (*with* Gökhan, Ayşegül; Bulut, Yunus) On multivariate order statistics by marginal ordering of i.n.n.i.d. random vectors from discrete parents. (English summary) **2005b:62037**
Haeusler, Erich (*with* Mason, David M.) Asymptotic distributions of trimmed Wasserstein distances between the true and the empirical distribution function. (English summary) **2005f:60056**
He, Shu Yuan (*with* Wong, Heung) Central limit theorem of linear regression model under right censorship. (English summary) **2005d:62056**
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Hiai, Fumio Free relative entropy and q-deformation theory. (English summary) **2005k:46176**
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Hutson, Alan D. Exact nonparametric bootstrap confidence bands for the quantile function given censored data. (English summary)
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Jaheen, Zeinhum F. (*with* Al-Matrafi, Bakheet N.) Recurrence relations for moments of k-th record values from a class of continuous distributions. (English summary) **2005a:62126**
Jammalamadaka, Sreenivasa Rao (*with* Goria, M. N.) A test of goodness-of-fit based on Gini's index of spacings. (English summary) **2005g:62078**
Jing, Bing-Yi *see* **Helmers, Roelof et al., 2005a:62102**
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Khan, Abdul Hamid (*with* Athar, Haseeb) Characterization of distributions through order statistics. (English summary) **2005m:62030**
(Khmaladze, Estate V.) *see* **Balakrishnan, Narayanaswamy, 2005c:60069**
Kim, Sungyeun *see* **Bae, Jongsig, 2005f:60074**
Klimczak, Monika (*with* Rychlik, Tomasz) Maximum variance of Kth records. (English summary) **2005g:62127**
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— (*with* Läuter, Jürgen; Eszlinger, Markus; Krohn, Knut; Paschke, Ralf) Nonparametric multiple test procedures with data-driven order of hypotheses and with weighted hypotheses. (English summary) **2005e:62069**
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Li, Si Hua (*with* Zheng, Ming[2]) Empirical likelihood for linear regression analysis with censored data. (Chinese. English and Chinese summaries) **2005d:62113**
Ling, Neng Xiang Strong consistence of kernel estimation for a regression function based on induced order statistics. (Chinese. English and Chinese summaries) **2005g:62066**
Malinowska, Iwona (*with* Morris, K. W.; Szynal, Dominik) On dual characterizations of continuous distributions in terms of expected values of two functions of order statistics and record values. **2005k:62039**
Marinucci, Domenico (*with* Piccioni, Mauro) The empirical process on Gaussian spherical harmonics. (English summary) **2005f:60086**
— The empirical process for bivariate sequences with long memory. (English summary) **2005k:60109**
Martínez, Servet A. *see* **Collet, Pierre et al., 2005e:37077**
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— *see also* **Haeusler, Erich, 2005f:60056** *and* **Deheuvels, Paul, 2005k:62131**
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— *see also* **Malinowska, Iwona et al., 2005k:62039**
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(Nadareishvili, M.) *see* **Balakrishnan, Narayanaswamy, 2005c:60069**
Nagaraja, H. N. (*with* Baggs, Geraldine E.) On predicting the maximum component of a bivariate exponential variable. (English summary) **2005h:62267**
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Paschke, Ralf *see* **Kropf, Siegfried et al., 2005e:62069**
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Raqab, Mohammad Z. Sharp bounds on the error in approximating the means of record statistics by inverse hazard functions. (English summary) **2005f:62087**
— (*with* Abu-Lawi, Lina N.) Characterizations of continuous distributions based on expectations of generalized order statistics. (English summary) **2005k:62043**
— (*with* Ahsanullah, Mohammad) Inferences for generalized secant hyperbolic distribution based on order statistics. (English summary)
— Approximate maximum likelihood predictors of future failure times of shifted exponential distributions under multiple type II censoring. (English summary)
— (*with* Rychlik, Tomasz) Sharp bounds on the expectations of second record values from

symmetric populations. (English summary) **2005a:62127**
— *see also* **Ahsanullah, Mohammad**, **2005g:62024**
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Wywiał, Janusz Errata: "Conditional estimation of average on the basis of weighting data" [Statist. Papers **45** (2004), no. 3, 413–431; MR2064721].
Xi, Fubao (*with* Zhao, Li Qin) Weak limits of empirical measures for a family of diffusion processes. (English summary) **2005f:60170**
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Bagga, D. K. (*with* Parihar, C. L.) A note on the extreme value distributions in special cases and general gamma distribution for the extreme value.
Barakat, Haroon M. (*with* Nigm, E. M.; Askar, M. M.) The trivariate extremes based on a random sample size. (English and Arabic summaries) **2005f:62085**
— (*with* Nigm, E. M.; El-Adll, Magdy E.) Asymptotic properties of random extremes under general normalization from nonidentical distributions. (English summary) **2005f:62086**
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Fils, Amélie (*with* Guillou, Armelle) A new extreme quantile estimator for heavy-tailed distributions. (English and French summaries) **2005c:62093**
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He, La Mei Convergence of a kind of Pickands-type estimator. (Chinese. English and Chinese summaries) **2005h:62142**
Heffernan, Janet E. (*with* Tawn, Jonathan A.) A conditional approach for multivariate extreme values. (English summary)
Hlubinka, Daniel Stereology of extremes; shape factor of spheroids. (English summary) **2005b:62112**
Hsing, Tailen (*with* Klüppelberg, Claudia; Kuhn, Gabriel) Dependence estimation and visualization in multivariate extremes with applications to financial data. (English summary)
Isogai, Takafumi (*with* Katano, Yukio; Miyata, Kenji) Models and inference for corrosion pit depth data. (English summary)
Jaheen, Zeinhum F. (*with* Al-Matrafi, Bakheet N.) Recurrence relations for moments of k-th record values from a class of continuous distributions. (English summary) **2005a:62126**
Johansson, Joachim Estimating the mean of heavy-tailed distributions. (English summary) **2005c:62094**
Jurečková, J. (*with* Picek, Jan) Estimates of the tail index based on nonparametric tests. (English summary) **2005d:62090**
Katano, Yukio *see* **Isogai, Takafumi et al.**
Kitano, Toshikazu Two indices for tail part distribution of population of extremal wave heights: tail length and tail thickness. (Japanese. English and Japanese summaries) **2005g:62088**
Klüppelberg, Claudia *see* **Hsing, Tailen et al.**
Kuhn, Gabriel *see* **Hsing, Tailen et al.**
Liu, Juan *see* **Tang, Jia Yin et al.**
Miyata, Kenji *see* **Isogai, Takafumi et al.**
Nigm, E. M. *see* **Barakat, Haroon M. et al.**, **2005f:62085** *and* **2005f:62086**
Parihar, C. L. *see* **Bagga, D. K.**
Picek, Jan *see* **Jurečková, J.**, **2005d:62090**
Raoult, J.-P. (*with* Worms, R.) Rate of convergence for the generalized Pareto approximation of the excesses. (English summary) **2005b:62113**
Raqab, Mohammad Z. Sharp bounds on the error in approximating the means of record statistics by inverse hazard functions. (English summary) **2005f:62087**
— (*with* Rychlik, Tomasz) Sharp bounds on the expectations of second record values from symmetric populations. (English summary) **2005a:62127**
Rychlik, Tomasz *see* **Raqab, Mohammad Z.**, **2005a:62127**
Segers, Johan Generalized Pickands estimators for the extreme value index. (English summary)
Shi, Dao Ji A property of bivariate extreme value distribution. (Chinese. English and Chinese summaries) **2005e:62077**
Sibuya, Masaaki *see* **Takahashi, Rinya**, **2005g:62089**
Takahashi, Rinya (*with* Sibuya, Masaaki) Estimation of larger quantiles based on the r largest observations. (Japanese. English and Japanese summaries) **2005g:62089**
Tang, Jia Yin (*with* Liu, Juan; Zhang, Ming Zhu) Application of copula in the analysis involving BIPIT of extreme-value samples. (Chinese. English and Chinese summaries)
Tawn, Jonathan A. *see* **Heffernan, Janet E.**
Teugels, Józef L. (*with* Vanroelen, Giovanni) Box-Cox transformations and heavy-tailed distributions. (English summary) **2005e:62078**
Vanroelen, Giovanni *see* **Teugels, Józef L.**, **2005e:62078**
West, Bruce J. The least vulnerable, the most successful and other such extremes. (English summary) (*see* **2005i:00016**)
Worms, R. *see* **Raoult, J.-P.**, **2005b:62113**
Zhang, Ming Zhu *see* **Tang, Jia Yin et al.**

Items with secondary classifications in 62G32

Ahsanullah, Mohammad (*with* Raqab, Mohammad Z.) Characterizations of distributions by conditional expectations of generalized order statistics. (English summary) **2005g:62024**
— *see also* **Wesołowski, Jacek**, **2005f:62083**
Angelocci, Luiz Roberto *see* **Bautista, Ezequiel Abraham López et al.**
Aryal, Gokarna (*with* Nadarajah, Saralees) On the skew Laplace distribution. (English summary)
Athar, Haseeb (*with* Yaqub, M.; Islam, H. M.) On characterization of distributions through linear regression of record values and order statistics. (English summary) **2005k:62027**
Balakrishnan, Narayanaswamy *see* **Hofmann, Glenn**, **2005g:62010**
Barbe, Ph. (*with* McCormick, William P.) Second-order expansion for the maximum of some stationary Gaussian sequences. (English summary) **2005c:60070**
Bautista, Ezequiel Abraham López (*with* Zocchi, Silvio Sandoval; Angelocci, Luiz Roberto) Fitting the generalized extreme value distribution to maximum wind speed data in Piracicaba, São Paulo, Brazil. (Portuguese. English and Portuguese summaries)
Beirlant, Jan (*with* Raoult, J.-P.; Worms, R.) On the relative approximation error of the generalized Pareto approximation for a high quantile. (English summary) **2005m:60112**
— (*with* Goegebeur, Yuri; Teugels, Józef L.; Segers, Johan) ★ Statistics of extremes. **2005j:62002**
— *see also* **Vandewalle, Björn et al.**, (**2005c:62006**)
Bieniek, Mariusz (*with* Szynal, Dominik) Characterizations based on k-th upper and lower record values. (English summary) **2005d:62022**
Christmann, Andreas On a strategy to develop robust and simple tariffs from motor vehicle insurance data. (English summary)
Coles, Stuart *see* **Sisson, Scott**
Danielak, Katarzyna (*with* Raqab, Mohammad Z.) Sharp bounds on expectations of kth record spacings from restricted families. (English summary) **2005h:62139**
(De Waal, Daniel) *see* **Beirlant, Jan et al.**, **2005j:62002**
Donoho, David L. (*with* Jin, Jiashun) Higher criticism for detecting sparse heterogeneous mixtures. (English summary) **2005e:62066**
Falk, Michael (*with* Reiss, Rolf-Dieter) Efficient estimation of the canonical dependence function. (English summary) **2005e:62085**
(Ferro, Chris) *see* **Beirlant, Jan et al.**, **2005j:62002**
Goegebeur, Yuri *see* **Beirlant, Jan et al.**, **2005j:62002**
Gomes, M. Ivette (*with* Martins, M. João) Bias reduction and explicit semi-parametric estimation of the tail index. (English summary) **2005e:62049**
Gumbel, Emile Julius ★ Statistics of extremes.
Gupta, Arjun K. *see* **Nadarajah, Saralees**
Gut, Allan (*with* Steinebach, Josef) EWMA charts for detecting a change-point in the drift of a stochastic process. (English summary) **2005m:62096**

Hanayama, Nobutane *see* **Sibuya, Masaaki**, **2005h:62292**
Hernandez-Campos, Felix (*with* Jeffay, Kevin; Park, Cheolwoo; Marron, J. S.; Resnick, Sidney I.) Extremal dependence: internet traffic applications. (English summary)
Hofmann, Glenn (*with* Balakrishnan, Narayanaswamy) Fisher information in k-records. (English summary) **2005g:62010**
Hubert, Mia *see* **Vandewalle, Björn et al.**, (**2005c:62006**)
Islam, H. M. *see* **Athar, Haseeb et al.**, **2005k:62027**
Janic-Wróblewska, Alicja Data-driven smooth tests for the extreme value distribution. (English summary)
Jeffay, Kevin *see* **Hernandez-Campos, Felix et al.**
Jin, Jiashun *see* **Donoho, David L.**, **2005e:62066**
Juri, Alessandro (*with* Wüthrich, Mario V.) Tail dependence from a distributional point of view. (English summary) **2005i:62087**
Kanda, Jun (*with* Nishijima, Kazuyoshi) Multi-site wind and earthquake hazard analyis via multivariate extreme value distributions. (Japanese. English and Japanese summaries) **2005h:62293**
Kratz, Marie F. (*with* Picco, Pierre) A representation of Gibbs measure for the random energy model. (English summary) **2005d:82054**
Kunin, Boris I. Extreme value type distributions with bounded support. (English summary) **2005c:60071**
Lapushkin, A. S. *see* **Shchetinin, E. Yu.**
Laurini, Fabrizio (*with* Tawn, Jonathan A.) New estimators for the extremal index and other cluster characteristics. (English summary)
Lopes, Hedibert Freitas *see* **Mendes, Beatriz Vaz de Melo**
Lou, Jianxiong *see* **Su, Chun et al.**, **2005h:62057** *and* **2005h:62058**
Marron, J. S. *see* **Hernandez-Campos, Felix et al.**
Martikaïnen, A. I. On the limit behavior of extremal order statistics. (Russian. English and Russian summaries) **2005j:62111**
Martins, M. João *see* **Gomes, M. Ivette**, **2005e:62049**
McCormick, William P. *see* **Barbe, Ph.**, **2005c:60070**
Mendes, Beatriz Vaz de Melo (*with* Lopes, Hedibert Freitas) Data driven estimates for mixtures. (English summary)
Morales, Manuel On an approximation for the surplus process using extreme value theory: applications in ruin theory and reinsurance pricing. (English summary)
Morris, K. W. (*with* Szynal, Dominik) Goodness-of-fit tests using dual versions of characterizations via moments of order statistics. **2005k:62127**
— (*with* Szynal, Dominik) Goodness-of-fit tests using dual versions of characterizations via moments of record values. **2005j:62100**
Nadarajah, Saralees (*with* Gupta, Arjun K.) The beta Fréchet distribution. (English summary)
— *see also* **Aryal, Gokarna**
Nishijima, Kazuyoshi *see* **Kanda, Jun**, **2005h:62293**
Park, Cheolwoo *see* **Hernandez-Campos, Felix et al.**
Picco, Pierre *see* **Kratz, Marie F.**, **2005d:82054**
Raimondo, Marc E. (*with* Tajvidi, Nader) A peaks over threshold model for change-point detection by wavelets. (English summary) **2005a:62116**
Raoult, J.-P. *see* **Beirlant, Jan et al.**, **2005m:60112**
Raqab, Mohammad Z. Evaluating improvements for spacings of order statistics. (English summary) **2005f:62081**
— Bounds on the expectations of kth record increments. (English summary)
— *see also* **Ahsanullah, Mohammad**, **2005g:62024** *and* **Danielak, Katarzyna**, **2005h:62139**
Reiss, Rolf-Dieter *see* **Falk, Michael**, **2005e:62085**
Resnick, Sidney I. *see* **Hernandez-Campos, Felix et al.**
Segers, Johan *see* **Beirlant, Jan et al.**, **2005j:62002**
Shchetinin, E. Yu. (*with* Lapushkin, A. S.) Statistical methods and mathematical models for estimating financial risk. (Russian. English and Russian summaries)
Sibuya, Masaaki (*with* Hanayama, Nobutane) Estimation of human longevity distribution based on tabulated statistics. (Japanese. English and Japanese summaries) **2005h:62292**
Sisson, Scott (*with* Coles, Stuart) Modelling dependence uncertainty in the extremes of Markov chains. (English summary)
Steinebach, Josef *see* **Gut, Allan**, **2005m:62096**
Su, Chun (*with* Lou, Jianxiong; Wei, Gang[1]) On the classes of asymptotic distributions for the sums of record values. I. **2005h:62057**
— (*with* Lou, Jianxiong; Wei, Gang[1]) On the classes of asymptotic distributions for the sums of record values. II. (English summary) **2005h:62058**
Szynal, Dominik *see* **Bieniek, Mariusz**, **2005d:62022**; **Morris, K. W.**, **2005j:62100** *and* **2005k:62127**
Tajvidi, Nader *see* **Raimondo, Marc E.**, **2005a:62116**
Tawn, Jonathan A. *see* **Laurini, Fabrizio**
Teugels, Józef L. *see* **Beirlant, Jan et al.**, **2005j:62002**
Vandewalle, Björn (*with* Beirlant, Jan; Hubert, Mia) A robust estimator of the tail index based on an exponential regression model. (English summary) (*see* **2005c:62006**)
Wang, Hao[5] Simulation and extreme VaR and VaR confidence interval estimation for a class of heavy-tailed risk factors. (English and Chinese summaries)
Wei, Gang[1] *see* **Su, Chun et al.**, **2005h:62057** *and* **2005h:62058**
Wesołowski, Jacek (*with* Ahsanullah, Mohammad) Switching order statistics through random power contractions. (English summary) **2005f:62083**
Worms, R. *see* **Beirlant, Jan et al.**, **2005m:60112**
Wüthrich, Mario V. Extreme value theory and Archimedean copulas. (English summary) **2005d:62168**
— *see also* **Juri, Alessandro**, **2005i:62087**
Yaqub, M. *see* **Athar, Haseeb et al.**, **2005k:62027**
Zocchi, Silvio Sandoval *see* **Bautista, Ezequiel Abraham López et al.**

62G35 Robustness

Beirlant, Jan *see* **Vandewalle, Björn et al.**, (**2005c:62006**)
Brys, G. (*with* Hubert, Mia; Struyf, Anja) A robust measure of skewness. (English summary) **2005g:62090**
Copt, S. (*with* Victoria-Feser, Maria-Pia) Fast algorithms for computing high breakdown covariance matrices with missing data. (English summary) (*see* **2005c:62006**)
Croux, C. *see* **Joossens, K.**, (**2005c:62006**)
Davies, P. Laurie (*with* Gather, Ursula) Robust statistics. (*see* **2005g:62004**)
Gather, Ursula *see* **Davies, P. Laurie**, (**2005g:62004**)
Hart, Jeffrey D. (*with* Lee, Cherng-Luen) Robustness of one-sided cross-validation to autocorrelation. (English summary) **2005f:62088**
Hsiao, Cheng *see* **Li, Tong[2]**, **2005f:62090**
Hubert, Mia *see* **Brys, G. et al.**, **2005g:62090** *and* **Vandewalle, Björn et al.**, (**2005c:62006**)
Joossens, K. (*with* Croux, C.) Empirical comparison of the classification performance of robust linear and quadratic discriminant analysis. (English summary) (*see* **2005c:62006**)
Kharin, A. Yu. Bayes prediction robustness in terms of L_1-distortions of prior probability distribution. **2005f:62089**
Kim, Kiseon *see* **Shevlyakov, G. L.**
Lee, Cherng-Luen *see* **Hart, Jeffrey D.**, **2005f:62088**
Li, Tong[2] (*with* Hsiao, Cheng) Robust estimation of generalized linear models with measurement errors. (English summary) **2005f:62090**
Ortega, J. F. A family of scale estimators by means of trimming. (English summary) **2005d:62091**
Shevlyakov, G. L. (*with* Kim, Kiseon) Huber's minimax approach in distribution classes with bounded variances and subranges with applications to robust detection of signals. (English summary)
Struyf, Anja *see* **Brys, G. et al.**, **2005g:62090**
Vandewalle, Björn (*with* Beirlant, Jan; Hubert, Mia) A robust estimator of the tail index based on an exponential regression model. (English summary) (*see* **2005c:62006**)
Victoria-Feser, Maria-Pia *see* **Copt, S.**, (**2005c:62006**)
Yohai, Víctor J. (*with* Zamar, Ruben H.) Robust nonparametric inference for the median. (English summary) **2005f:62091**
Zamar, Ruben H. *see* **Yohai, Víctor J.**, **2005f:62091**

Items with secondary classifications in 62G35

Agulló, Jose *see* **Rousseeuw, Peter J. et al.**, **2005c:62101**
Ando, Masakazu (*with* Kimura, Miyoshi) The maximum asymptotic bias of S-estimates for regression over the neighborhoods defined by certain special capacities. (English summary) **2005h:62099**
Arslan, Olcay On the computation and finite sample behavior of the constrained M-estimates for multivariate location and scatter. (English summary)
Aucremanne, L. (*with* Brys, G.; Hubert, Mia; Rousseeuw, Peter J.; Struyf, Anja) A study of Belgian inflation, relative prices and nominal rigidities using new robust measures of skewness and tail weight. (English summary) (*see* **2005c:62006**)
Barbe, Ph. (*with* Broniatowski, M.) Blowing number of a distribution for a statistics and loyal estimators. (English summary) **2005m:62019**
Bassett, G. (*with* Gerber, G.; Rocco, Pasquale John) Robust strategies for quantitative investment management. (English summary) (*see* **2005c:62006**)
Belitser, Eduard On asymptotic expansion of pseudovalues in nonparametric median regression. (English summary) **2005f:62077**
Broniatowski, M. *see* **Barbe, Ph.**, **2005m:62019**
Brys, G. *see* **Aucremanne, L. et al.**, (**2005c:62006**)
Chan, Wen-Yaw *see* **Lai, Yi-Hsuan et al.**, **2005c:62061**
Chen, Lin-An *see* **Lai, Yi-Hsuan et al.**, **2005c:62061**
Chen, Zhiqiang[1] (*with* Giné, Evarist) Another approach to asymptotics and bootstrap of randomly trimmed means. (English summary) **2005m:62107**
Christmann, Andreas On properties of support vector machines for pattern recognition in finite samples. (English summary) (*see* **2005c:62006**)
— On a strategy to develop robust and simple tariffs from motor vehicle insurance data. (English summary)
Čížek, Pavel[2] Smoothed local L-estimation with an application. (English summary) (*see* **2005c:62006**)
Cui, Heng-jian *see* **Zuo, Yijun et al.**, **2005a:62049**
Das, Rabindra Nath[3] Construction and analysis of robust second order rotatable designs (English summary)
Eldar, Yonina C. (*with* Merhav, Neri) A competitive minimax approach to robust estimation of random parameters. (English summary) **2005k:62088**
Fang, Yixin *see* **Zhao, Lin Cheng**, **2005c:62179**
Gerber, G. *see* **Bassett, G. et al.**, (**2005c:62006**)
Giloni, Avi (*with* Simonoff, Jeffrey S.) The conditional breakdown properties of least absolute value local polynomial estimators. (English summary)
Giné, Evarist *see* **Chen, Zhiqiang[1]**, **2005m:62107**
Glaz, Joseph (*with* Pozdnyakov, Vladimir) A repeated significance test for distributions with heavy tails. (English summary) **2005j:62162**
Hallin, Marc (*with* Paindaveine, Davy) Affine-invariant aligned rank tests for the multivariate general linear model with VARMA errors. (English summary) **2005k:62204**
Hingley, P. J. Analytic estimator densities for common parameters under misspecified models. (English summary) **2005d:62013**
Hsu, Yu-Sheng *see* **Qin, Gengsheng et al.**
Hubert, Mia *see* **Theory and applications of recent robust methods**, **2005c:62006** *and* **Aucremanne, L. et al.**, (**2005c:62006**)
Juárez-Cerrillo, S. F. (*with* Schucany, William R.) Robust and efficient estimation for the generalized Pareto distribution. (English summary)
Kimura, Miyoshi *see* **Ando, Masakazu**, **2005h:62099**
Koenker, Roger Quantile regression for longitudinal data. (English summary) **2005g:62118**
Kulasekera, K. B. (*with* Park, Chanseok) Robust nonparametric regression estimation. (English summary) **2005e:62051**
Lai, Yi-Hsuan (*with* Chen, Lin-An; Chan, Wen-Yaw) Generalized and feasible generalized median estimators for the linear regression with AR(1) error model. (English summary) **2005c:62061**
Liu, Wan Rong Reweighted estimators based on a depth function for the location and scatter of multivariate distributions. (Chinese. English and Chinese summaries) **2005f:62097**

Marazzi, Alfio (*with* Yohai, Víctor J.) Robust Box-Cox transformations for simple regression. (English summary) **2005g:62119**
Merhav, Neri *see* **Eldar, Yonina C., 2005k:62088**
Mukhopadhyay, Nitis (*with* de Silva, B. M.) Two-stage estimation of mean in a negative binomial distribution with applications to Mexican bean beetle data. (English summary) **2005m:62147**
Müller, Christine H. Redescending M-estimators in regression analysis, cluster analysis and image analysis. (English summary)
Ortelli, C. (*with* Trojani, F.) Robust efficient method of moments estimation. (English summary) (*see* **2005c:62006**)
Paindaveine, Davy *see* **Hallin, Marc, 2005k:62204**
Park, Chanseok *see* **Kulasekera, K. B., 2005e:62051**
(Pison, Greet) *see* **Theory and applications of recent robust methods, 2005c:62006**
Pozdnyakov, Vladimir *see* **Glaz, Joseph, 2005j:62162**
Qin, Gengsheng (*with* Tsao, Min; Hsu, Yu-Sheng) Empirical likelihood ratio confidence interval for the Winsorized mean. (English summary)
Rocco, Pasquale John *see* **Bassett, G. et al., (2005c:62006)**
Rousseeuw, Peter J. (*with* Van Driessen, Katrien; Van Aelst, Stefan; Agulló, Jose) Robust multivariate regression. (English summary) **2005c:62101**
— *see also* **Aucremanne, L. et al., (2005c:62006)**
Sa, Ping *see* **Wludyka, Peter**
Schucany, William R. *see* **Juárez-Cerrillo, S. F.**
de Silva, B. M. *see* **Mukhopadhyay, Nitis, 2005m:62147**
Simonoff, Jeffrey S. *see* **Giloni, Avi**
Struyf, Anja *see* **Theory and applications of recent robust methods, 2005c:62006** *and* **Aucremanne, L. et al., (2005c:62006)**
Trojani, F. *see* **Ortelli, C., (2005c:62006)**
Tsao, Min *see* **Qin, Gengsheng et al.**
Van Aelst, Stefan *see* **Theory and applications of recent robust methods, 2005c:62006** *and* **Rousseeuw, Peter J. et al., 2005c:62101**
Van Driessen, Katrien *see* **Rousseeuw, Peter J. et al., 2005c:62101**
Wang, Jing Long *see* **Zhang, Ri Quan, 2005k:62110**
Wludyka, Peter (*with* Sa, Ping) A robust I-sample analysis of means type randomization test for variances for unbalanced designs. (English summary)
Yohai, Víctor J. *see* **Marazzi, Alfio, 2005g:62119**
Young, Dennis *see* **Zuo, Yijun et al., 2005a:62049**
Zhang, Ri Quan (*with* Wang, Jing Long) Robust estimation in partially linear regression model for dependent data. (English summary) **2005k:62110**
Zhao, Lin Cheng (*with* Fang, Yixin) Random weighting method for censored regression model. (English summary) **2005c:62179**
Zuo, Yijun (*with* Cui, Heng-jian; Young, Dennis) Influence function and maximum bias of projection depth based estimators. (English summary) **2005a:62049**

Items listed otherwise than by author

Antwerp ★ Theory and applications of recent robust methods. **2005c:62006**
Theory and applications of recent robust methods ★ Theory and applications of recent robust methods. **2005c:62006**

62G99 None of the above, but in this section

Cai, T. Tony (*with* Low, Mark G.) Minimax estimation of linear functionals over nonconvex parameter spaces. (English summary) **2005d:62092**
— (*with* Low, Mark G.) An adaptation theory for nonparametric confidence intervals. (English summary) **2005h:62143**
Drăghici, L. (*with* Ramamoorthi, R. V.) Consistency of Dykstra-Laud priors. (English summary) **2005b:62114**
Fernholz, Luisa Turrin (*with* Morgenthaler, Stephan; Tukey, John W.) An outlier nomination method based on the multihalver. (English summary) **2005h:62144**
Grendar, Marian, Jr. Asymptotic identity of μ-projections and I-projections. (English summary) **2005m:62111**
Low, Mark G. *see* **Cai, T. Tony, 2005d:62092** *and* **2005h:62143**
Morgenthaler, Stephan *see* **Fernholz, Luisa Turrin et al., 2005h:62144**
Ramamoorthi, R. V. *see* **Drăghici, L., 2005b:62114**
Tukey, John W. *see* **Fernholz, Luisa Turrin et al., 2005h:62144**

Items with secondary classifications in 62G99

Broniatowski, M. Estimation of the Kullback-Leibler divergence. (English summary) **2005b:62014**
Weerahandi, Samaradasa ★ Generalized inference in repeated measures. **2005b:62006**

62Hxx Multivariate analysis [see also 60Exx]

Items with secondary classifications in 62Hxx

Afifi, Abdelmonem (*with* Clark, Virginia A.; May, Susanne) ★ Computer-aided multivariate analysis.
Clark, Virginia A. *see* **Afifi, Abdelmonem et al.**
Härdle, Wolfgang K. (*with* Simar, Léopold) ★ Applied multivariate statistical analysis. **2005b:62001**
May, Susanne *see* **Afifi, Abdelmonem et al.**
Simar, Léopold *see* **Härdle, Wolfgang K., 2005b:62001**

62H05 Characterization and structure theory

Andersson, Steen A. (*with* Wojnar, G. Gerard) The Wishart distributions on homogeneous cones. (English summary)
Anghel, Corneliu (*with* Boldea, M.) A new distribution law in statistics. (English summary) **2005c:62095**
Asha, G. (*with* Sankaran, P. G.) A bivariate geometric model and its properties. (English summary) **2005e:62079**
Bearse, Peter (*with* Bozdogan, Hamparsum) Multivariate regressions, genetic algorithms, and information complexity: a three way hybrid. (English summary) (*see* **2005b:62010**)
Block, Henry W. (*with* Mazumdar, Mainak; Ross, Sheldon M.) A note on generating systems composed of binary and ternary random variables. (English summary) **2005j:62116**
Bobecka, Konstancja (*with* Wesołowski, Jacek) Multivariate dual regression schemes for the Lukacs theorem. (English summary) **2005h:62145**
— (*with* Wesołowski, Jacek) Bivariate Lukacs type regression characterizations. (English summary) **2005h:62146**
Bojarski, Jacek (*with* Misiewicz, Jolanta K.) Band copulas as spectral measures for two-dimensional stable random vectors. (English summary) **2005b:62115**
Boldea, M. *see* **Anghel, Corneliu, 2005c:62095**
Bookstein, F. L. *see* **Mardia, Kanti V. et al.**
Borowiecka-Olszewska, Marta (*with* Misiewicz, Jolanta K.) About the density of spectral measure of the two-dimensional $S\alpha S$ random vector. (English summary) **2005e:62080**
Boyer, Joseph *see* **Wang, Jiuzhou et al., 2005k:62140**
Bozdogan, Hamparsum *see* **Bearse, Peter, (2005b:62010)**
Cameron, A. Colin (*with* Li, Tong[2]; Trivedi, Pravin K.; Zimmer, David M.) Modelling the differences in counted outcomes using bivariate copula models with application to mismeasured counts. (English summary)
— *see also* **Errata: "Modelling the differences in counted outcomes using bivariate copula models with application to mismeasured counts"**
Cascos-Fernández, Ignacio (*with* López-Díaz, Miguel) The zonoid hull of a multivariate probability distribution and its trimmed regions. **2005j:62117**
Chen, Tuhao J. *see* **Gupta, Arjun K., 2005c:62097**
Chikuse, Yasuko Hermite and Laguerre polynomials with complex matrix arguments. (English summary)
Chino, Naohito Complex space models for the analysis of asymmetry. (English summary) (*see* **2005b:62010**)
Clifford, David Computation of spatial covariance matrices. (English summary)
Comte, Fabienne (*with* Rozenholc, Y.) A new algorithm for fixed design regression and denoising. (English summary) **2005e:62081**
Cook, R. Dennis *see* **Yin, Xiangrong, 2005d:62094** *and* **Setodji, C. Messan**
Denuit, Michel (*with* Lambert, Philippe) Constraints on concordance measures in bivariate discrete data. (English summary)
Dey, Dipak K. *see* **Nadarajah, Saralees**
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— (*with* Castillo, Enrique F.; Sarabia, José María) Distributions with conditionals in truncated weighted families. (English summary)
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Lue, Heng-Hui Principal Hessian directions for regression with measurement error. (English summary)
Lughofer, Edwin *see* **Groißböck, Werner et al.**, (**2005i:62007**)
Mádi-Nagy, Gergely (*with* Prékopa, András) On multivariate discrete moment problems and their applications to bounding expectations and probabilities. (English summary) **2005a:90101**
Magen, Avner Dimensionality reductions that preserve volumes and distance to affine spaces, and their algorithmic applications. (English summary) **2005a:68237**
Mahdi, Smail Analysis of variability in statistical migration and immigration models. (English summary) **2005h:62291**
Manglick, Anubhav *see* **Kundu, Debasis et al.**, **2005f:62029**
Mankiewicz, Piotr (*with* Tomczak-Jaegermann, Nicole) Quotients of finite-dimensional Banach spaces; random phenomena. **2005f:46018**
Marchev, Dobrin (*with* Hobert, James P.) Geometric ergodicity of van Dyk and Meng's algorithm for the multivariate Student's t model. (English summary) **2005d:60107**
Masmoudi, A. *see* **Hassairi, Abdelhamid**, **2005j:62136**
Mathew, Thomas[1] *see* **Lee, Yi-Tzu**
Matrán, Carlos *see* **Cuesta-Albertos, Juan A. et al.**, **2005k:62030**
Matúš, František *see* **Csiszár, Imre**

Mazzuchi, Thomas A. *see* **van Dorp, Johan René**, (2005j:62007)
McDonald, James B. *see* **Bandourian, Ripsy et al.**
Mendola, Daria (*with* De Cantis, Stefano) The analysis of poverty in Italy: A fuzzy dynamic approach. (English summary) (*see* **2005f:62007**)
Mesiar, Radko *see* **Klement, Erich Peter et al.**, (2005i:62007)
Mikusiński, Piotr *see* **Li, Xin[3] et al.**, **2005b:60031**
Mironov, D. V. *see* **Borisov, I. S.**, **2005g:62041**
Mugdadi, A. R. (*with* Ahmad, Ibrahim A.) A bandwidth selection for kernel density estimation of functions of random variables. (English summary)
Nadarajah, Saralees (*with* Kotz, Samuel) Multitude of bivariate *t* distributions. (English summary)
— Reliability for some bivariate beta distributions.
— (*with* Kotz, Samuel) Sampling distributions associated with the multivariate *t* distribution. (English summary)
Nakano, Yumiharu Minimization of shortfall risk in a jump-diffusion model. (English summary) **2005b:62137**
Nelsen, Roger B. Concordance and copulas: a survey. (English summary) (*see* **2005a:62016**)
— (*with* Quesada Molina, José Juan; Rodríguez Lallena, José Antonio; Úbeda Flores, Manuel) Some new properties of quasi-copulas. (English summary) **2005b:60032**
— (*with* Úbeda Flores, Manuel) A comparison of bounds on sets of joint distribution functions derived from various measures of association. (English summary) **2005f:60048**
Nguyen, Diem M. *see* **Nguyen, Truc T. et al.**, **2005g:62029**
Nguyen, Truc T. (*with* Nguyen, Diem M.; Dinh, Khoan T.) A note on a characterization of *k*-variate normal distribution. (English summary) **2005g:62029**
Normand, Jean-Marie Calculation of some determinants using the *s*-shifted factorial. (English summary) **2005h:33004**
Okasha, Samir Multi-level selection, covariance and contextual analysis. (English summary)
(Ol'shanskiĭ, Grigoriĭ) *see* **Kerov, S. V.**, **2005a:60018**
Ong, Seng-Huat *see* **Gupta, Pushpa L. et al.**
Pap, Endre *see* **Klement, Erich Peter et al.**, (2005i:62007)
Paul, David A. *see* **Young, Dean Max et al.**, **2005j:62149**
Pierre-Loti-Viaud, Daniel Mélanges de lois sur ℕ et crédibilité paramétrique. (French summary) [Distribution mixing in ℕ and parametric credibility] **2005h:62047**
Prékopa, András *see* **Mádi-Nagy, Gergely**, **2005a:90101** *and* **Horváth, Alice**, **2005e:91101**
Pressman, Irwin S. *see* **Jibrin, Shafiu et al.**, **2005c:62008**
Provost, Serge B. *see* **Khan, Hafiz M. R. et al.**
Quesada Molina, José Juan *see* **Nelsen, Roger B. et al.**, **2005b:60032**
Rafalin, E. (*with* Souvaine, D. L.) Computational geometry and statistical depth measures. (English summary) (*see* **2005c:62006**)
Rapcsák, Tamás Some optimization problems in multivariate statistics. (English summary) **2005b:90135**
Rataj, Jan *see* **Beneš, Viktor**, **2005g:60002**
Reiss, Rolf-Dieter *see* **Falk, Michael**, **2005e:62085** *and* **2005g:62098**
Resnick, Sidney I. *see* **Heffernan, Janet E.**
Rocci, Roberto A general algorithm to fit constrained DEDICOM models. (English summary)
Rodríguez Lallena, José Antonio *see* **Nelsen, Roger B. et al.**, **2005b:60032**
Rodríguez Rodríguez, Jesús M. *see* **Cuesta-Albertos, Juan A. et al.**, **2005k:62030**
Roy, Dilip Characterization of a bivariate Weibull distribution based on arithmetic, geometric and harmonic means of failure rates. (English summary) **2005e:62141**
— A generalization of the lack of memory property and related characterization results. (English summary) **2005m:62035**
— Bivariate models from univariate life distributions: a characterization cum modeling approach. (English summary) **2005j:62202**
Rubinstein, Robert (*with* Choudhari, Meelan) Uncertainty quantification for systems with random initial conditions using Wiener-Hermite expansions. (English summary) **2005i:76068**
Salibian-Barrera, Matias *see* **Jibrin, Shafiu et al.**, **2005c:62008**
Sarabia, José María *see* **Arnold, Barry C. et al.**
Schmid, Wolfgang P. (*with* Tzotchev, Dobromir) Statistical surveillance of the parameters of a one-factor Cox-Ingersoll-Ross model. (English summary) **2005c:62190**
— *see also* **Bodnar, Olha**
Sempi, Carlo Conditional expectations and idempotent copulæ. (English summary) (*see* **2005a:62016**)
— Convergence of copulas: critical remarks. (English and Serbo-Croatian summaries) **2005d:60026**
— *see also* **Durante, Fabrizio**, (2005i:62007)
Serfling, Robert *see* **Wang, Jin[1]**, **2005j:62080**
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Takane, Yoshio Matrices with special reference to applications in psychometrics. (English summary)
Tan, Ken Seng *see* **Imai, Junichi**, (2005b:65002)
Tawn, Jonathan A. *see* **Heffernan, Janet E.**
Taylor, M. D. *see* **Li, Xin[3] et al.**, **2005b:60031** *and* **Carley, H.**, (2005a:62016)
Theodorescu, Radu *see* **Cuculescu, Ion**, **2005k:60045**
Thomas, Alice (*with* Jose, K. K.) Marshall-Olkin bivariate Pareto distribution and its applications. (English summary) **2005e:62019**
Tomczak-Jaegermann, Nicole *see* **Mankiewicz, Piotr**, **2005f:46018**
Tripathi, T. P. (*with* Chaubey, Yogendra P.) Optimum PPS sampling design based on multivariate information for estimation of several totals. (English summary)
Turley, Robert S. *see* **Bandourian, Ripsy et al.**
Turner, Danny W. *see* **Young, Dean Max et al.**, **2005j:62149**
Tzotchev, Dobromir *see* **Schmid, Wolfgang P.**, **2005c:62190**
Úbeda Flores, Manuel *see* **Nelsen, Roger B. et al.**, **2005b:60032** *and* **2005f:60048**
Vaish, Akhil K. (*with* Chaganty, N. Rao) Wishartness and independence of matrix quadratic forms for Kronecker product covariance structures. (English summary) **2005h:62186**
Vanco, M. (*with* Brunnett, Guido) Direct segmentation of algebraic models for reverse engineering. (English summary) (*see* **2005f:65004**)
Vernic, Raluca On a bivariate generalisation of Sundt's class of counting distributions. (English summary) **2005c:62193**
Verret, François *see* **Genest, Christian**
Wang, Jiantian (*with* Li, Yingfu) Dependency measures under bivariate homogeneous shock models. (English summary) **2005k:62238**
Wang, Jin[1] (*with* Serfling, Robert) Nonparametric multivariate kurtosis and tailweight measures. (English summary) **2005j:62080**
Wang, Xiang (*with* Liu, Zai Ming) Ruin probability of a delay bivariate risk model. (Chinese. English and Chinese summaries)
Wei, Bo Cheng *see* **Liu, Ying An**, **2005h:62251**
Werker, Bas J. M. *see* **Genest, Christian**, (2005a:62016)
Wermuth, Nanny (*with* Cox, David R.) Joint response graphs and separation induced by triangular systems. (English summary) **2005c:60011**
Willink, R. Bounds on the bivariate normal distribution function. (English summary)
Wüthrich, Mario V. Extreme value theory and Archimedean copulas. (English summary) **2005d:62168**
Xekalaki, Evdokia (*with* Dimaki, Caterina) Characterizations of bivariate Pareto and Yule distributions. (English summary)
Young, Dean Max (*with* Paul, David A.; Turner, Danny W.) Independence distribution-preserving joint covariance structures for sample covariance matrices. (English summary) **2005j:62149**
Zhang, Zhengjun (*with* Smith, Richard L.) The behavior of multivariate maxima of moving maxima processes. (English summary) **2005h:60152**

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Alvo, M. *see* **Ratnarajah, T. et al.**, **2005k:62142**
Castañeda, María Eugenia (*with* Nagar, Daya K.) Distribution of generalized variance under mixture normal model. (English summary) **2005e:62083**
Chen, Jie[3] *see* **Nagar, Daya K. et al.**, **2005c:62099**
Chen, Tuhao J. (*with* Gupta, Arjun K.; Nguyen, Truc T.) The density of the skew normal sample mean and its applications. (English summary) **2005e:62084**
Chen, Ying Bao *see* **Wu, Ji Hua et al.**
Crocetto, Nicola (*with* Pugliano, Giovanni) Distribution of some statistics in the presence of blunders in geodetic observations. (English summary)
Dai, Yong Long *see* **Li, Shao Ming et al.**, **2005m:62114**
Domínguez-Molina, J. Armando *see* **Gupta, Arjun K. et al.**, **2005a:62137**
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González-Farías, Graciela *see* **Gupta, Arjun K. et al.**, **2005a:62137**
Gupta, Arjun K. (*with* Kabe, D. G.) On a zonal polynomial integral. **2005a:62135**
— (*with* Kollo, Tõnu) Density expansions based on the multivariate skew normal distribution. (English summary) **2005a:62136**
— (*with* González-Farías, Graciela; Domínguez-Molina, J. Armando) A multivariate skew normal distribution. (English summary) **2005a:62137**
— (*with* Kabe, D. G.) On Selberg's beta integrals. (English summary) **2005m:62113**
— *see also* **Nagar, Daya K. et al.**, **2005c:62099** *and* **Chen, Tuhao J. et al.**, **2005e:62084**
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Khan, Shahjahan Predictive distribution of regression vector and residual sum of squares for normal multiple regression model. (English summary)
Kollo, Tõnu *see* **Gupta, Arjun K.**, **2005a:62136**
Li, Kai Can (*with* Geng, Zhi) Hyper inverse Γ-distribution and its sampling scheme. (Chinese. English and Chinese summaries) **2005f:62094**
Li, Shao Ming (*with* Dai, Yong Long; Teng, Cheng Ye) Quaternion beta distribution, *F*-distribution and the distributions of their latent roots. (Chinese. English and Chinese summaries) **2005m:62114**
Liang, Jiajuan (*with* Pan, William S. Y.; Yang, Zhen Hai) Characterization-based Q-Q plots for testing multinormality. (English summary) **2005k:62141**
Liu, Dong Hai (*with* Miao, Bai Qi) Strong convergence of the recursive M-estimation. (Chinese. English and Chinese summaries) **2005d:62095**
Luo, Chun Comparison of two normal distributions. (Chinese. English and Chinese summaries) **2005f:62095**
Masuda, Hiroki (*with* Yoshida, Nakahiro) An application of the double Edgeworth expansion to a filtering model with Gaussian limit. (English summary) **2005h:62151**
Miao, Bai Qi *see* **Liu, Dong Hai**, **2005d:62095**
Nagar, Daya K. (*with* Chen, Jie[3]; Gupta, Arjun K.) Distribution and percentage points of the likelihood ratio statistic for testing circular symmetry. (English summary) **2005c:62099**
— *see also* **Castañeda, María Eugenia**, **2005e:62083**
Naus, Joseph I. (*with* Wallenstein, Sylvan) Multiple window and cluster size scan procedures. (English summary)
Nguyen, Truc T. *see* **Chen, Tuhao J. et al.**, **2005e:62084**
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Pewsey, Arthur The large-sample joint distribution of key circular statistics. (English summary) **2005f:62096**
Pugliano, Giovanni *see* **Crocetto, Nicola**
Ratnarajah, T. (*with* Vaillancourt, Rémi; Alvo, M.) Eigenvalues and condition numbers of complex random matrices. (English summary) **2005k:62142**
Severini, Thomas A. A modified likelihood ratio statistic for some nonregular models (English summary)
Teng, Cheng Ye *see* **Li, Shao Ming et al.**, **2005m:62114**
Vaillancourt, Rémi *see* **Ratnarajah, T. et al.**, **2005k:62142**
Wallenstein, Sylvan *see* **Naus, Joseph I.**
Wu, Ji Hua (*with* Chen, Ying Bao; Xie, Min Yu; Zuo, Guo Xin) Necessary and sufficient conditions for a test statistic submitting to certain distribution. (Chinese. English and Chinese summaries)
Xie, Min Yu *see* **Wu, Ji Hua et al.**
Yang, Zhen Hai *see* **Liang, Jiajuan et al.**, **2005k:62141**

Yoshida, Nakahiro *see* **Masuda, Hiroki**, **2005h:62151**
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Alvo, M. *see* **Ratnarajah, T. et al.**, **2005b:94016**
Anghel, Corneliu (*with* Boldea, M.) A new distribution law in statistics. (English summary) **2005c:62095**
Arellano-Valle, Reinaldo B. *see* **Loschi, Rosangela H. et al.**, **2005d:60025**
Arslan, Olcay Family of multivariate generalized t distributions. (English summary) **2005b:60029**
Aulogiaris, G. (*with* Zografos, Konstantinos) A maximum entropy characterization of symmetric Kotz type and Burr multivariate distributions. (English summary) **2005i:62033**
Boldea, M. *see* **Anghel, Corneliu**, **2005c:62095**
Boyer, Joseph *see* **Wang, Jiuzhou et al.**, **2005b:62035**
Bulut, Yunus *see* **Güngör, Mehmet et al.**, **2005b:62037**
Chen, Jie[3] (*with* Gupta, Arjun K.) Statistical inference on covariance change points in Gaussian model. (English summary) **2005a:62142**
Chou, Chao-Wei (*with* Huang, Wen-Jang) A note on characterizations of the bivariate gamma distribution. (English summary) **2005j:62029**
Coelho, Carlos A. The generalized near-integer gamma distribution: a basis for 'near-exact' approximations to the distribution of statistics which are the product of an odd number of independent Beta random variables. (English summary) **2005d:62024**
Dey, Dipak K. *see* **Micheas, Athanasios C.**, **2005g:60029**
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Fernández, Begoña (*with* González-Barrios, José M.) Multidimensional dependency measures. (English summary) **2005j:62128**
Fonseca, Miguel (*with* Mexia, João Tiago; Zmyślony, Roman) Estimators and tests for variance components in cross nested orthogonal designs. (English summary) **2005b:62123**
Fujikoshi, Yasunori *see* **Sheena, Y. et al.**, **2005d:62034**
Gadzhiev, A. G. Linear regression models with an increasing number of unknown parameters. (Russian) **2005k:62165**
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Hong, Chong Sun (*with* Hong, Sung Sick) Comparison study of bivariate Laplace distributions with the same marginal distribution. (English summary) **2005b:62038**
Hong, Sung Sick *see* **Hong, Chong Sun**, **2005b:62038**
Huang, Wen-Jang *see* **Chou, Chao-Wei**, **2005j:62029**
Iglesias, Pilar Loreto *see* **Loschi, Rosangela H. et al.**, **2005d:60025**
Jacob, Joy (*with* Jose, K. K.; Mathai, Arak M.) Some properties of real matrix-variate inverted generalized Dirichlet integrals. (English summary) **2005j:62034**
Jiang, Jyh-Ming (*with* Dickey, James M.; Kuo, Kun-Lin) A new multivariate transform and the distribution of a random functional of a Ferguson-Dirichlet process. (English summary) **2005c:60018**
Jiang, Tiefeng The asymptotic distributions of the largest entries of sample correlation matrices. (English summary) **2005b:60053**
Jose, K. K. *see* **Jacob, Joy et al.**, **2005j:62034**
Kałuszka, Marek (*with* Okolewski, A.) Sharp exponential and entropy bounds on expectations of generalized order statistics. (English summary) **2005c:62089**
Keller, Timothy P. (*with* Olkin, Ingram) Combining correlated unbiased estimators of the mean of a normal distribution. (English summary) **2005j:62124**
Kollo, Tõnu (*with* Selart, Anne) Density expansions for correlations and eigenvalues of the covariance matrix. (English summary)
Kuo, Kun-Lin *see* **Jiang, Jyh-Ming et al.**, **2005c:60018**
Kuriki, Satoshi (*with* Takemura, Akimichi) Tail probabilities of the limiting null distributions of the Anderson-Stephens statistics. (English summary) **2005i:62083**
Kutoyants, Yurii On delay estimation for stochastic differential equations. (English summary)
van der Laan, Mark J. *see* **Pollard, Katherine S.**
Lee, Myoung-Jae (*with* Li, Wen-juan) Drift and diffusion function specification for short-term interest rates. (English summary)
Li, Kai Can Exact distribution of the concentration matrix for decomposable graphical models. (Chinese. English and Chinese summaries) **2005k:62047**
Li, Wen-juan *see* **Lee, Myoung-Jae**
Loschi, Rosangela H. (*with* Iglesias, Pilar Loreto; Arellano-Valle, Reinaldo B.) Predictivistic characterizations of multivariate Student-t models. (English summary) **2005d:60025**
Mathai, Arak M. *see* **Jacob, Joy et al.**, **2005j:62034**
Mexia, João Tiago *see* **Fonseca, Miguel et al.**, **2005b:62123** *and* **Nunes, Célia Maria Pinto**, **2005k:62174**
Micheas, Athanasios C. (*with* Dey, Dipak K.) Modeling shape distributions and inferences for assessing differences in shapes. (English summary) **2005g:60029**
Mortarino, Cinzia A decomposition for a stochastic matrix with an application to MANOVA. (English summary) **2005f:62093**
Nakano, Yumiharu Minimization of shortfall risk in a jump-diffusion model. (English summary) **2005b:62137**
Nunes, Célia Maria Pinto (*with* Mexia, João Tiago) Selective generalized F tests. (English summary) **2005k:62174**
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Pollard, Katherine S. (*with* van der Laan, Mark J.) Choice of a null distribution in resampling-based multiple testing. (English summary)
Rao, Calyampudi Radhakrishna (*with* Shanbhag, D. N.) Characterizations of stable laws based on a number theoretic result. (English summary)
Ratnarajah, T. (*with* Vaillancourt, Rémi; Alvo, M.) Complex random matrices and Rayleigh channel capacity. (English summary) **2005b:94016**
Sekiya, Yuri (*with* Taneichi, Nobuhiro) Improvement of approximations for the distributions of multinomial goodness-of-fit statistics under nonlocal alternatives. (English summary)
Selart, Anne *see* **Kollo, Tõnu**
Serdobolskii, V. I. Matrix shrinkage of high-dimensional expectation vectors. (English summary) **2005j:62145**
Shanbhag, D. N. *see* **Rao, Calyampudi Radhakrishna**
Sheena, Y. (*with* Gupta, Arjun K.; Fujikoshi, Yasunori) Estimation of the eigenvalues of noncentrality parameter in matrix variate noncentral beta distribution. (English summary) **2005d:62034**
Takemura, Akimichi *see* **Kuriki, Satoshi**, **2005i:62083**
Taneichi, Nobuhiro *see* **Sekiya, Yuri**
Traat, Imbi Approximate design-based variance of functions of covariance matrix. (English summary)
Triantafyllopoulos, Kostas On the central moments of the multidimensional Gaussian distribution. (English summary) **2005b:60034**
Vaillancourt, Rémi *see* **Ratnarajah, T. et al.**, **2005b:94016**
Wang, Jiuzhou (*with* Boyer, Joseph; Genton, Marc G.) A note on an equivalence between chi-square and generalized skew-normal distributions. (English summary) **2005b:62035**
Yanagimoto, Takemi (*with* Ohnishi, Toshio[2]) Extensions of the conjugate prior through the Kullback-Leibler separators. (English summary) **2005f:62013**
Zhao, Lin Cheng (*with* Fang, Yixin) Random weighting method for censored regression model. (English summary) **2005c:62179**
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Bao, Shuming (*with* Henry, Mark; Barkley, David) Identifying urban-rural linkages: tests for spatial effects in the Carlino-Mills model. (*see* **2005g:62003**)
Baran, Sándor (*with* Pap, Gyula[1]; Van Zuijlen, Martien C. A.) Asymptotic inference for a nearly unstable sequence of stationary spatial AR models. (English summary) **2005h:62152**
Barkley, David *see* **Bao, Shuming et al.**, (**2005g:62003**)
Barry, Ronald *see* **Pace, R. Kelley et al.**, (**2005g:62003**)
Berger, James O. (*with* De Oliveira, Victor; Sansó, Bruno; Ren, Cuirong; Wittig, Timothy A.) Correction: "Objective Bayesian analysis of spatially correlated data" [J. Amer. Statist. Assoc. **96** (2001), no. 456, 1361–1374; MR1946582 (2003j:62088)]. **2005a:62138**
Beron, Kurt J. (*with* Vijverberg, Wim P. M.) Probit in a spatial context: a Monte Carlo analysis. (*see* **2005g:62003**)
— (*with* Hanson, Yaw; Murdoch, James C.; Thayer, Mark A.) Hedonic price functions and spatial dependence: implications for the demand for urban air quality. (*see* **2005g:62003**)
Bivand, Roger S. (*with* Portnov, Boris A.) Exploring spatial data analysis techniques using R: the case of observations with no neighbors. (*see* **2005g:62003**)
Boarnet, Marlon G. *see* **Rey, Sergio J.**, (**2005g:62003**)
Bockstael, Nancy *see* **Irwin, Elena**, (**2005g:62003**)
Braxmeier, Hans (*with* Schmidt, Volker[1]; Spodarev, Eugene) Spatial extrapolation of anisotropic road traffic data. (English summary)
Calò, Daniela G. *see* **Pillati, Marilena**, (**2005f:62007**)
Chan, B. S. P. *see* **Martin, Richard John et al.**
Chen, Hong-jian Directional random effect model and its covariance structure. (English and Chinese summaries) **2005h:62153**
Chen, Tao[1] (*with* Wang, Li Zhen) An algorithm of spacial attribute-oriented generalization on the basis of time-series data. (Chinese. English and Chinese summaries)
De Oliveira, Victor *see* **Berger, James O. et al.**, **2005a:62138**
Di Marzio, Marco *see* **Sclocco, Tonino**
Eccleston, J. A. *see* **Martin, Richard John et al.**
Fleming, Mark M. Techniques for estimating spatially dependent discrete choice models. (*see* **2005g:62003**)
Gao, Yonghong Data depth based on spatial rank. (English summary) **2005b:62119**
Govekar, Edvard *see* **Mandelj, Simon et al.**
Grabec, Igor *see* **Mandelj, Simon et al.**
Griffith, Daniel A. Faster maximum likelihood estimation of very large spatial autoregressive models: an extension of the Smirov-Anselin result. (English summary)
Hanson, Yaw *see* **Beron, Kurt J. et al.**, (**2005g:62003**)
Hendriks, Harrie The admissibility of the empirical mean location for the matrix von Mises-Fisher family. (English summary) **2005i:62082**
Henry, Mark *see* **Bao, Shuming et al.**, (**2005g:62003**)
Irwin, Elena (*with* Bockstael, Nancy) Endogenous spatial externalities: empirical evidence and implications for the evolution of exurban residential land use patterns. (*see* **2005g:62003**)
Kurihara, Koji Classification of geospatial lattice data and their graphical representation. (English summary) (*see* **2005i:62003**)
Kuriki, Satoshi (*with* Takemura, Akimichi) Tail probabilities of the limiting null distributions of the Anderson-Stephens statistics. (English summary) **2005i:62083**
Li, Ta-Hsin *see* **Oh, Hee-Seok**
Lu, Nelson (*with* Zimmerman, Dale L.) Testing for directional symmetry in spatial dependence using the periodogram. (English summary)
Mandelj, Simon (*with* Grabec, Igor; Govekar, Edvard) Nonparametric statistical modeling of spatiotemporal dynamics based on recorded data. (English summary)
Martin, Richard John (*with* Eccleston, J. A.; Chan, B. S. P.) Efficient factorial experiments when the data are spatially correlated. (English summary)
Mizera, Ivan (*with* Müller, Christine H.) Location-scale depth. (English summary) **2005g:62096**
Müller, Christine H. *see* **Mizera, Ivan**, **2005g:62096**
Murdoch, James C. *see* **Beron, Kurt J. et al.**, (**2005g:62003**)

Oh, Hee-Seok (*with* Li, Ta-Hsin) Corrigendum: "Estimation of global temperature fields from scattered observations by a spherical-wavelet-based spatially adaptive method" [J. R. Stat. Soc. Ser. B Stat. Methodol. **66** (2004), no. 1, 221–238; MR2035768 (2004k:62144)].
Pace, R. Kelley (*with* Barry, Ronald; Slawson, V. Carlos, Jr.; Sirmans, C. F.) Simultaneous spatial and functional form transformations. (*see* **2005g:62003**)
Pap, Gyula[1] *see* **Baran, Sándor et al., 2005h:62152**
Pillati, Marilena (*with* Calò, Daniela G.) Robust centre location in radial basis function networks. (English summary) (*see* **2005f:62007**)
Portnov, Boris A. *see* **Bivand, Roger S., (2005g:62003)**
Ren, Cuirong *see* **Berger, James O. et al., 2005a:62138**
Rey, Sergio J. (*with* Boarnet, Marlon G.) A taxonomy of spatial econometric models for simultaneous equations systems. (*see* **2005g:62003**)
Sansó, Bruno *see* **Berger, James O. et al., 2005a:62138**
Schmidt, Volker[1] *see* **Braxmeier, Hans et al.**
Sclocco, Tonino (*with* Di Marzio, Marco) A weighted polynomial regression method for local fitting of spatial data. (English summary)
SenGupta, Ashis On the constructions of probability distributions for directional data. (English summary)
Sirmans, C. F. *see* **Pace, R. Kelley et al., (2005g:62003)**
Slawson, V. Carlos, Jr. *see* **Pace, R. Kelley et al., (2005g:62003)**
Spodarev, Eugene *see* **Braxmeier, Hans et al.**
Takemura, Akimichi *see* **Kuriki, Satoshi, 2005i:62083**
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Van Zuijlen, Martien C. A. *see* **Baran, Sándor et al., 2005h:62152**
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Wittig, Timothy A. *see* **Berger, James O. et al., 2005a:62138**
Yue, Wei *see* **Zhu, Jun**[5]
Zhu, Jun[5] (*with* Yue, Wei) A multiresolution tree-structured spatial linear model. (English summary)
Zimmerman, Dale L. *see* **Lu, Nelson**

Items with secondary classifications in 62H11

Alfò, Marco (*with* Vitiello, Cecilia) Finite mixtures approach to ecological regression. (English summary)
Anselin, Luc (*with* Florax, Raymond J. G. M.; Rey, Sergio J.) Econometrics for spatial models: recent advances. (*see* **2005g:62003**)
Artés, Jordi *see* **Mateu, Jorge et al., 2005b:65006**
Artís Ortuño, Manuel *see* **Moreno, Rosina et al., (2005g:62003)**
Baltagi, Badi H. (*with* Li, Dong[3]) Prediction in the panel data model with spatial correlation. (*see* **2005g:62003**)
Belyakov, O. V. *see* **Little, M. P. et al.**
(Besag, Julian) *see* **Penttinen, Antti et al., (2005b:62009)**
Biau, Gérard (*with* Cadre, Benoît) Nonparametric spatial prediction. (English summary) **2005j:62191**
Cadre, Benoît *see* **Biau, Gérard, 2005j:62191**
Calvin, James A. *see* **Guan, Yongtao et al., 2005d:62078**
Chen, Xing *see* **Lu, Zudi, 2005f:62070**
Clark, Allan B. *see* **Lawson, Andrew et al.**
Cripps, Edward (*with* Nott, David J.; Dunsmuir, William T. M.; Wikle, Christopher K.) Space-time modelling of Sydney Harbour winds. (English summary)
Darwis, Sutawanir On the use of updating technique in grade estimation. (English summary)
De Oliveira, Victor Bayesian inference and prediction of Gaussian random fields based on censored data. (English summary)
Divino, Fabio *see* **Penttinen, Antti et al., (2005b:62009)**
Dunsmuir, William T. M. *see* **Cripps, Edward et al.**
Eliste, Paavo (*with* Fredriksson, Per G.) Does trade liberalization cause a race-to-the-bottom in environmental policies? A spatial econometric analysis. (*see* **2005g:62003**)
Filipe, J. A. N. *see* **Little, M. P. et al.**
Fingleton, Bernard Regional economic growth and convergence: insights from a spatial econometric perspective. (*see* **2005g:62003**)
Florax, Raymond J. G. M. (*with* de Graaff, Thomas) The performance of diagnostic tests for spatial dependence in linear regression models: a meta-analysis of simulation studies. (*see* **2005g:62003**)
— *see also* **Anselin, Luc et al., (2005g:62003)**
Folkard, M. *see* **Little, M. P. et al.**
Fredriksson, Per G. *see* **Eliste, Paavo, (2005g:62003)**
Gamerman, Dani (*with* Moreira, Ajax R. B.) Multivariate spatial regression models. (English summary)
Gershman, Alex B. *see* **Vorob'ev, S. A. et al., 2005g:62100**
Gotway, Carol A. *see* **Waller, Lance A., 2005a:62013**
de Graaff, Thomas *see* **Florax, Raymond J. G. M., (2005g:62003)**
Guan, Yongtao (*with* Sherman, Michael; Calvin, James A.) A nonparametric test for spatial isotropy using subsampling. (English summary) **2005d:62078**
(Held, Leonhard) *see* **Richardson, Sylvia, (2005b:62009)**
Hiebeler, David Spatially correlated disturbances in a locally dispersing population model. (English summary)
Huh, Jib (*with* Kim, Peter T.; Koo, Ja-Yong; Park, Jinho) Directional log-density estimation. (English summary) **2005h:62110**
Hutchings, Mike R. *see* **Marion, Glenn et al.**
Ioannides, Yannis M. Economic geography and the spatial evolution of wages in the United States. (*see* **2005g:62003**)
Kanevski, Mikhail (*with* Maignan, Michel) ★ Analysis and modelling of spatial environmental data. **2005d:62005**
Kim, Peter T. *see* **Huh, Jib et al., 2005h:62110**
Koo, Ja-Yong *see* **Huh, Jib et al., 2005h:62110**
Krone, S. M. Spatial models: stochastic and deterministic. (English summary)
Lawson, Andrew (*with* Clark, Allan B.; Vidal Rodeiro, Carmen L.) Developments in general and syndromic surveillance for small area health data. (English summary)
Lee, Lung-Fei Asymptotic distributions of quasi-maximum likelihood estimators for spatial autoregressive models. (English summary) **2005d:62146**
LeSage, James P. A family of geographically weighted regression models. (*see* **2005g:62003**)
Li, Dong[3] *see* **Baltagi, Badi H., (2005g:62003)**
Little, M. P. (*with* Filipe, J. A. N.; Prise, K. M.; Folkard, M.; Belyakov, O. V.) A model for radiation-induced bystander effects, with allowance for spatial position and the effects of cell turnover. (English summary)
López, José A. *see* **Mateu, Jorge et al., 2005b:65006**
López-Bazo, Enrique *see* **Moreno, Rosina et al., (2005g:62003)** *and* **Vayá, Esther et al., (2005g:62003)**
Lu, Zudi (*with* Chen, Xing) Spatial kernel regression estimation: weak consistency. (English summary) **2005f:62070**
Maignan, Michel *see* **Kanevski, Mikhail, 2005d:62005**
Marion, Glenn (*with* Swain, David L.; Hutchings, Mike R.) Understanding foraging behaviour in spatially heterogeneous environments. (English summary)
Mateu, Jorge (*with* Artés, Jordi; López, José A.) Computational issues for perfect simulation in spatial point patterns. (English summary) **2005b:65006**
McDonald, John F. *see* **McMillen, Daniel P., (2005g:62003)**
McMillen, Daniel P. (*with* McDonald, John F.) Locally weighted maximum likelihood estimation: Monte Carlo evidence and an application. (*see* **2005g:62003**)
(Møller, Jesper) *see* **Richardson, Sylvia, (2005b:62009)**
Moreira, Ajax R. B. *see* **Gamerman, Dani**
Moreno, Rosina (*with* López-Bazo, Enrique; Vayá, Esther; Artís Ortuño, Manuel) External effects and cost of production. (*see* **2005g:62003**)
— *see also* **Vayá, Esther et al., (2005g:62003)**
Nott, David J. *see* **Cripps, Edward et al.**
Park, Ho-Hyun On estimating result sizes of multi-way spatial joins. (English summary) (*see* **2005i:00014**)
Park, Jinho *see* **Huh, Jib et al., 2005h:62110**
Penttinen, Antti (*with* Divino, Fabio; Riiali, Anne) Spatial hierarchical Bayesian models in ecological applications. (*see* **2005b:62009**)
Pettitt, A. N. *see* **Reeves, Robert W.**
Pourtaheri, Reza (*with* Vahidi-ASL, Mohammad Q.) A new test for complete spatial randomness. (English summary) **2005k:62150**
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Reeves, Robert W. (*with* Pettitt, A. N.) Efficient recursions for general factorisable models. (English summary)
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Richardson, Sylvia Spatial models in epidemiological applications. (*see* **2005b:62009**)
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Stollenwerk, Nico Criticality in epidemics: the mathematics of sandpiles explains uncertainty in epidemic outbreaks. (*see* **2005f:60007**)
Suriñach Caralt, Jordi *see* **Vayá, Esther et al., (2005g:62003)**
Swain, David L. *see* **Marion, Glenn et al.**
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Vayá, Esther (*with* López-Bazo, Enrique; Moreno, Rosina; Suriñach Caralt, Jordi) Growth and externalities across economies: an empirical analysis using spatial econometrics. (*see* **2005g:62003**)
— *see also* **Moreno, Rosina et al., (2005g:62003)**
Vidal Rodeiro, Carmen L. *see* **Lawson, Andrew et al.**
Vitiello, Cecilia *see* **Alfò, Marco**
Vorob'ev, S. A. (*with* Gershman, Alex B.; Wong, Kon Max) Maximum likelihood direction-of-arrival estimation in unknown noise fields using sparse sensor arrays. (English summary) **2005g:62100**
Waller, Lance A. (*with* Gotway, Carol A.) ★ Applied spatial statistics for public health data. **2005a:62013**
Wang, Xiao Ming[3] (*with* Zhao, Lin Cheng) A law of logarithm for kernel density estimators with directional data. (Chinese. English and Chinese summaries) **2005b:62090**
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Blagoveshchenskii, Yu. N. Statistical problems of fractal detection.
Bouchard, G. (*with* Girard, Stéphane; Yuditskiĭ, A. B.; Nazin, Alexander V.) Some linear programming methods for frontier estimation. (English summary)
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Cox, David R. (*with* Reid, N.) A note on pseudolikelihood constructed from marginal densities. (English summary)

Demchuk, Eugene *see* **Misra, Neeraj et al., 2005i:62084**
Di Giacinto, Valter (*with* Ippoliti, Luigi; Romagnoli, Luca) Space time noisy observation smoothing. (English summary) (*see* **2005f:62007**)
Donchenko, V. S. (*with* Kirichenko, N. F.; Krivonos, Yu. G.) Plural uncertainty models: the Hough transform. (Ukrainian. English summary)
Dunajeva, Olga (*with* Kollo, Tõnu; Traat, Imbi) Bias correction for the shape parameter of the skew normal distribution. (English summary) **2005c:62100**
Dunson, David B. *see* **O'Brien, Sean M.**
Falk, Michael (*with* Reiss, Rolf-Dieter) Efficient estimation of the canonical dependence function. (English summary) **2005e:62085**
— (*with* Reiss, Rolf-Dieter) A characterization of the Marshall-Olkin dependence function and a goodness-of-fit test. (English summary) **2005g:62098**
Fedorov, Valerii V. (*with* Leonov, Sergei L.) Parameter estimation for models with unknown parameters in variance. (English summary) **2005k:62143**
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Girard, Stéphane *see* **Bouchard, G. et al.**
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Ingrassia, Salvatore A likelihood-based constrained algorithm for multivariate normal mixture models. (English summary)
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— *see also* **Di Giacinto, Valter et al., (2005f:62007)**
Jammalamadaka, Sreenivasa Rao *see* **Ranneby, Bo et al., 2005k:62148**
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Keleş, Sündüz (*with* van der Laan, Mark J.; Robins, James M.) Estimation of the bivariate survival function with generalized bivariate right censored data structures. **2005e:62086**
Keller, Timothy P. (*with* Olkin, Ingram) Combining correlated unbiased estimators of the mean of a normal distribution. (English summary) **2005j:62124**
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Kollo, Tõnu *see* **Dunajeva, Olga et al., 2005c:62100**
Kourouklis, Stavros *see* **Petropoulos, Constantinos, 2005h:62159**
Krivonos, Yu. G. *see* **Donchenko, V. S. et al.**
Kuk, Anthony Y. C. Permutation invariance of alternating logistic regression for multivariate binary data. (English summary) **2005j:62125**
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Lahiri, Soumendra N. (*with* Mukherjee, Kanchan) Asymptotic distributions of M-estimators in a spatial regression model under some fixed and stochastic spatial sampling designs. (English summary) **2005h:62156**
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Liebscher, Eckhard A semiparametric density estimator based on elliptical distributions. (English summary) **2005h:62157**
Little, Roderick J. A. (*with* An, Hyonggin) Robust likelihood-based analysis of multivariate data with missing values. (English summary)
— *see also* **Tang, Gong et al., (2005j:62008)**
Liu, Wan Rong Reweighted estimators based on a depth function for the location and scatter of multivariate distributions. (Chinese. English and Chinese summaries) **2005f:62097**
Liu, Xiao Mao *see* **Guo, Wei Juan et al., 2005k:62144**
Madsen, Jesper *see* **Jensen, Søren Tolver, 2005b:62120**
Maruyama, Yosihito (*with* Seo, Takashi) Estimation of moment parameter in elliptical distributions. (English summary) **2005a:62141**
McDonald, John F. *see* **McMillen, Daniel P., (2005g:62003)**
McMillen, Daniel P. (*with* McDonald, John F.) Locally weighted maximum likelihood estimation: Monte Carlo evidence and an application. (*see* **2005g:62003**)
Misra, Neeraj (*with* Singh, Harshinder; Demchuk, Eugene) Estimation of the entropy of a multivariate normal distribution. (English summary) **2005i:62084**
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Neudecker, Heinz Estimation of the noncentrality matrix of a noncentral Wishart distribution with unit scale matrix. A matrix generalization of Leung's domination result. (English summary) **2005k:62147**
O'Brien, Sean M. (*with* Dunson, David B.) Bayesian multivariate logistic regression. (English summary)
Olkin, Ingram *see* **Keller, Timothy P., 2005j:62124**
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Pérez-Cruz, Fernando *see* **Sánchez-Fernández, Matilde et al., 2005c:62102**
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Reiss, Rolf-Dieter *see* **Falk, Michael, 2005e:62085** *and* **2005g:62098**
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Rousseeuw, Peter J. (*with* Van Driessen, Katrien; Van Aelst, Stefan; Agulló, Jose) Robust multivariate regression. (English summary) **2005c:62101**
Samuel, Philip Some characterizations of a Pareto distribution by generalized order statistics. (English summary) **2005g:62099**
Sánchez-Fernández, Matilde (*with* de Prado-Cumplido, Mario; Arenas-García, Jerónimo; Pérez-Cruz, Fernando) SVM multiregression for nonlinear channel estimation in multiple-input multiple-output systems. (English summary) **2005c:62102**
Scott, David W. Multivariate density estimation and visualization. (*see* **2005g:62004**)
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Strachan, Rodney W. (*with* Inder, Brett) Bayesian analysis of the error correction model. (English summary)
Tang, Gong (*with* Little, Roderick J. A.; Raghunathan, Trivellore E.) Analysis of multivariate monotone missing data by a pseudolikelihood method. (English summary) (*see* **2005j:62008**)
Teterukovskiy, Alex *see* **Ranneby, Bo et al., 2005k:62148**
Toma, Aida Bounded influence estimators for multivariate lognormal distributions. (English and French summaries) **2005e:62087**
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Wang, Gang *see* **Guo, Wei Juan et al., 2005k:62144**
Watanabe, Michiko (*with* Yamaguchi, Kazunori[2]) Incomplete data and the EM algorithm. (*see* **2005f:62005**)
— Latent structure model and the EM algorithm. (*see* **2005f:62005**)
Wong, Kon Max *see* **Vorob'ev, S. A. et al., 2005g:62100**
Yamaguchi, Kazunori[2] *see* **Watanabe, Michiko, (2005f:62005)**
You, Jin Hong *see* **Zhou, Xian, 2005d:62096**
Yuditskiĭ, A. B. *see* **Bouchard, G. et al.**
Zhou, Xian (*with* You, Jin Hong) Wavelet estimation in varying-coefficient partially linear regression models. (English summary) **2005d:62096**
Zohar, Ron (*with* Geiger, Dan) A novel framework for tracking groups of objects. (English summary) **2005b:62122**

Items with secondary classifications in 62H12

Abraham, Christophe (*with* Biau, Gérard; Cadre, Benoît) On the asymptotic properties of a simple estimate of the mode. (English summary) **2005j:62105**
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Al-Shingiti, Arwa M. *see* **Huda, Shahariar**
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Arce, Gonzalo R. *see* **Li, Yinbo**
Arslan, Olcay On the computation and finite sample behavior of the constrained M-estimates for multivariate location and scatter. (English summary)
Asha, G. (*with* Sankaran, P. G.) A bivariate geometric model and its properties. (English summary) **2005e:62079**
Bailey, Trevor C. (*with* Hewson, Paul J.) Simultaneous modelling of multiple traffic safety performance indicators by using a multivariate generalized linear mixed model. (English summary)
Bergsma, Wicher P. *see* **Rudas, Tamás**
Biau, Gérard Spatial kernel density estimation. (English summary) **2005e:62054**
— *see also* **Abraham, Christophe et al., 2005j:62105**
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Cardot, Hervé (*with* Koo, Ja-Yong; Park, Heon Jin; Trubuil, Alain) Boosting diracs for electrophoresis. (English summary)
Carrière, K. C. *see* **de Leon, A. R., 2005f:62030**
Chen, Zhiqiang[1] (*with* Tyler, David E.) On the behavior of Tukey's depth and median under symmetric stable distributions. (English summary) **2005a:62085**
Cheng, Yuk W. (*with* Lawrence, Craig S.) Estimating the parameters of the statistical upper bound of dry hepatopancreas weight of yabbies (Cherax albidus) by the EM1

algorithm. (English summary)
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Costa, Àlex (*with* Satorra, Albert; Ventura, Eva) Improving both domain and total area estimation by composition. (English and Catalan summaries) **2005b:62151**
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— *see also* **Zuo, Yijun et al., 2005a:62049** *and* **2005a:62073**
Cysneiros, Francisco José A. (*with* Paula, Gilberto A.) One-sided tests in linear models with multivariate t-distribution. (English summary)
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Ebrahimi, Nader Indirect assessment of the bivariate survival function. (English summary)
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Farnoosh, R. (*with* Zarpak, B.) Image restoration with Gaussian mixture models. (English summary)
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Rudas, Tamás (*with* Bergsma, Wicher P.) On applications of marginal models for categorical data. (English summary)
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Schabenberger, Oliver (*with* Gotway, Carol A.) ★ Statistical methods for spatial data analysis. **2005k:62001**
Scharf, Louis L. *see* **Kraut, Shawn et al., 2005j:94014**
Sen, Pranab Kumar[1] *see* **Silvapulle, Mervyn J., 2005k:62004**
Sherman, Michael *see* **Guan, Yongtao et al., 2005d:62078**
Shi, Ning-Zhong (*with* Zheng, Shu-Rong; Guo, Jianhua) The restricted EM algorithm under inequality restrictions on the parameters. (English summary) **2005j:62068**
Silvapulle, Mervyn J. (*with* Sen, Pranab Kumar[1]) ★ Constrained statistical inference. **2005k:62004**
Sim, Songyong (*with* Johnson, Richard A.) New tests for multivariate ordered alternatives. (English summary) **2005i:62046**
Singh, Housila Prasad *see* **Upadhyaya, Lakshmi N. et al., 2005h:62039**
Singh, Sarjinder *see* **Upadhyaya, Lakshmi N. et al., 2005h:62039**
Strachan, Rodney W. (*with* Inder, Brett) Bayesian analysis of the error correction model. (English summary)
Suslina, I. A. *see* **Ingster, Yu. I., 2005k:62003**
Székely, Gábor J. (*with* Rizzo, Maria L.) A new test for multivariate normality. (English summary) **2005h:62133**
Takemura, Akimichi *see* **Kuriki, Satoshi, 2005i:62083**
Tamaki, Kenichiro Second order asymptotic properties of a class of test statistics under the existence of nuisance parameters. (English summary) **2005g:62040**
Taskinen, S. (*with* Kankainen, A.; Oja, Hannu) Rank scores tests of multivariate independence. (English summary) (*see* **2005c:62006**)
Tsai, Ming-Tien Maximum likelihood estimation of covariance matrices under simple tree ordering. (English summary) **2005e:62088**
Tunaru, Radu *see* **Vladimirescu, Ion, 2005e:62030**
Upadhyaya, Lakshmi N. (*with* Singh, Housila Prasad; Singh, Sarjinder) A class of estimators for estimating the variance of the ratio estimator. (English summary) **2005h:62039**
Van Steen, Kristel *see* **Murphy, Amy et al.**
Vladimirescu, Ion (*with* Tunaru, Radu) Hypothesis testing for generalized Rayleigh distribution. (English summary) **2005e:62030**
Wakaki, Hirofumi *see* **Fujikoshi, Yasunori et al., 2005c:62122**
Wang, Jing Long *see* **Al-Mouel, Abdul-Hussein Saber, 2005h:62180**
Yang, Zhen Hai *see* **Liang, Jiajuan et al., 2005k:62141**
Yin, Xiangrong Canonical correlation analysis based on information theory. (English summary) **2005c:62106**
Zhao, Lin Cheng *see* **Jin, Man et al., 2005m:62139**
Zheng, Shu-Rong *see* **Shi, Ning-Zhong et al., 2005j:62068**
Zimmerman, Dale L. *see* **Lu, Nelson**

Items listed otherwise than by author

Lecture Notes in Computer Science *see* **Heuel, Stephan, 2005e:62003**
Lecture Notes in Statistics *see* **Ingster, Yu. I., 2005k:62003**

62H17 Contingency tables

Aoki, Satoshi (*with* Takemura, Akimichi) Minimal basis for a connected Markov chain over $3 \times 3 \times K$ contingency tables with fixed two-dimensional marginals. (English summary) **2005e:62090**
— *see also* **Takemura, Akimichi, 2005g:62103** *and* **Suzuki, Taiji et al., 2005j:62127**
Asci, Claudio (*with* Piccioni, Mauro) A note on the IPF algorithm when the marginal problem is unsolvable. (English summary) **2005c:62104**
Bergsma, Wicher P. (*with* Rudas, Tamás) Variation independent parameterizations of multivariate categorical distributions. (English summary) (*see* **2005a:62016**)
— *see also* **Rudas, Tamás**
Best, D. J. *see* **Rayner, J. C. W., (2005a:62014)**
Cohen, Arthur (*with* Kolassa, John E.; Sackrowitz, H. B.) A test for homogeneity of odds ratios in ordered 2×2 tables. (English summary)
— (*with* Kolassa, John E.; Sackrowitz, H. B.) A four action problem with ordered categorical data: are two distributions the same, ordered, or otherwise? (English summary) **2005k:62151**
Dayton, C. Mitchell Applications and computational strategies for the two-point mixture index of fit. (English summary)
De Cantis, Stefano (*with* Oliveri, Antonino M.) An overview of collapsibility. (English summary) (*see* **2005i:62003**)
Dellaportas, Petros (*with* Tarantola, Claudia) Model determination for categorical data with factor level merging. (English summary)
Develin, Mike (*with* Sullivant, Seth) Markov bases of binary graph models. (English summary) **2005b:62125**
Dobra, Adrian (*with* Sullivant, Seth) A divide-and-conquer algorithm for generating Markov bases of multi-way tables. (English summary)
Gupta, Arjun K. (*with* Nguyen, Truc T.; Pardo, Leandro) Phi-residual based on minimum phi-divergence estimator in the loglinear model of symmetry. **2005k:62152**
Houya, Hidechika *see* **Tomizawa, Sadao et al.**
Jones, Geoffrey *see* **Luo, Dongwen et al.**
Kateri, Maria (*with* Nicolaou, Anna; Ntzoufras, Ioannis) Bayesian inference for the RC(m) association model. (English summary)
Kolassa, John E. *see* **Cohen, Arthur et al., 2005k:62151**
Kroonenberg, Pieter M. Analysing dependence in large contingency tables: nonsymmetric correspondence analysis and regression with optimal scaling. (English summary) (*see* **2005b:62010**)
Kuhnt, Sonja Outlier identification procedures for contingency tables using maximum likelihood and L_1 estimates. (English summary)
Loonis, Vincent Simultaneous row and column partitioning in several contingency tables. (English summary) (*see* **2005i:62003**)
Luo, Dongwen (*with* Wood, Graham R.; Jones, Geoffrey) Visualising contingency table data. (English summary)
Matsui, Tomomi (*with* Matsui, Yasuko; Ono, Yoko) Random generation of $2 \times 2 \times \cdots \times 2 \times J$ contingency tables. (English summary) **2005g:62102**
Matsui, Yasuko *see* **Matsui, Tomomi et al., 2005g:62102**
Menéndez, María Luisa (*with* Pardo Llorente, Julio Ángel; Pardo, Leandro) Tests of symmetry in three-dimensional contingency tables based on phi-divergence statistics. (English summary) **2005e:62091**
Miyamoto, Nobuko (*with* Ohtsuka, Wataru; Tomizawa, Sadao) Linear diagonals-parameter symmetry and quasi-symmetry models for cumulative probabilities in square contingency tables with ordered categories. (English summary)
— *see also* **Tomizawa, Sadao et al.**
Murota, Kazuo *see* **Suzuki, Taiji et al., 2005j:62127**
Nguyen, Truc T. *see* **Gupta, Arjun K. et al., 2005k:62152**
Nicolaou, Anna *see* **Kateri, Maria et al.**
Ntzoufras, Ioannis *see* **Kateri, Maria et al.**
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Oliveri, Antonino M. *see* **De Cantis, Stefano, (2005i:62003)**
Ono, Yoko *see* **Matsui, Tomomi et al., 2005g:62102**
Pardo, Leandro *see* **Menéndez, María Luisa et al., 2005e:62091**; **Pardo Llorente, Julio Ángel et al., 2005h:62162** *and* **Gupta, Arjun K. et al., 2005k:62152**
Pardo, María del Carmen *see* **Pardo Llorente, Julio Ángel et al., 2005h:62162**
Pardo Llorente, Julio Ángel Inference for three-dimensional contingency tables based on φ_1-divergences. **2005j:62126**
— (*with* Pardo, Leandro; Pardo, María del Carmen; Zografos, Konstantinos) An exploratory canonical analysis approach for multinomial populations based on the φ-divergence measure. (English summary) **2005h:62162**
— *see also* **Menéndez, María Luisa et al., 2005e:62091**
Piccioni, Mauro *see* **Asci, Claudio, 2005c:62104**
Rayner, J. C. W. (*with* Best, D. J.) Using contingency tables to construct both traditional and new nonparametric tests. (English summary) (*see* **2005a:62014**)

Rudas, Tamás (*with* Bergsma, Wicher P.) On applications of marginal models for categorical data. (English summary)
— *see also* **Bergsma, Wicher P.**, (**2005a:62016**)
Sackrowitz, H. B. *see* **Cohen, Arthur et al.**, **2005k:62151**
Sullivant, Seth *see* **Develin, Mike**, **2005b:62125** *and* **Dobra, Adrian**
Suzuki, Taiji (*with* Aoki, Satoshi; Murota, Kazuo) Use of primal-dual technique in the network algorithm for two-way contingency tables. (English summary) **2005j:62127**
Takemura, Akimichi (*with* Aoki, Satoshi) Some characterizations of minimal Markov basis for sampling from discrete conditional distributions. (English summary) **2005g:62103**
— *see also* **Aoki, Satoshi**, **2005e:62090**
Tarantola, Claudia *see* **Dellaportas, Petros**
Tomizawa, Sadao (*with* Yukawa, Tomohito) Proportional reduction in variation measure for two-way contingency tables with ordered categories. (English summary)
— (*with* Miyamoto, Nobuko; Houya, Hidechika) Generalization of Cramer's coefficient of association for contingency tables. (English summary)
— (*with* Miyamoto, Nobuko; Yamane, Shunsuke) Power-divergence-type measure of departure from diagonals-parameter symmetry for square contingency tables with ordered categories. (English summary)
— *see also* **Miyamoto, Nobuko et al.**
Tunaru, Radu Bayesian model selection for contingency tables. (English summary) **2005d:62098**
Wakefield, Jon Ecological inference for 2×2 tables. (English summary)
Wood, Graham R. *see* **Luo, Dongwen et al.**
Yamane, Shunsuke *see* **Tomizawa, Sadao et al.**
Yukawa, Tomohito *see* **Tomizawa, Sadao**
Zografos, Konstantinos *see* **Pardo Llorente, Julio Ángel et al.**, **2005h:62162**

Items with secondary classifications in 62H17

Aït-Sidi-Allal, M. L. (*with* Baccini, A.; Mondot, A. M.) A new algorithm for estimating the parameters and their asymptotic covariance in correlation and association models. (English summary) **2005b:62051**
Baccini, A. *see* **Aït-Sidi-Allal, M. L. et al.**, **2005b:62051**
Bavaud, François Generalized factor analyses for contingency tables. (English summary) (*see* **2005i:62003**)
Bernard, Jean-Marc An introduction to the imprecise Dirichlet model for multinomial data. (English summary)
Bertoluzza, Carlo (*with* De Simoni, Sergio) Uncertainty measures and hierarchical classification. (*see* **2005i:62007**)
Cazes, Pierre (*with* Moreau, Jean) Analyse des correspondances d'un tableau de contingence dont les lignes et les colonnes sont munies d'une structure de graphe bistochastique. [Correspondence analysis of a contingency table whose rows and columns have a bistochastic graph structure] (*see* **2005m:62006**)
Consonni, Guido (*with* Veronese, Piero; Gutiérrez-Peña, Eduardo) Reference priors for exponential families with simple quadratic variance function. (English summary) **2005d:62118**
Critchley, F. *see* **Wang, Dong Q. et al.**
Cryan, Mary (*with* Dyer, Martin) A polynomial-time algorithm to approximately count contingency tables when the number of rows is constant. (English summary) **2005h:68177**
De Loera, Jesús A. (*with* Onn, Shmuel) The complexity of three-way statistical tables. (English summary) **2005b:68140**
De Simoni, Sergio *see* **Bertoluzza, Carlo**, (**2005i:62007**)
Dyer, Martin *see* **Cryan, Mary**, **2005h:68177**
Geng, Zhi *see* **Kuroda, Masahiro**, (**2005a:62014**)
Gupta, Arjun K. (*with* Nadarajah, Saralees) On the moments of the beta normal distribution. (English summary) **2005a:62039**
Gutiérrez-Peña, Eduardo *see* **Consonni, Guido et al.**, **2005d:62118**
Hirotsu, Chihiro Multiplicity problems in the clinical trial and some statistical approaches. (English summary) (*see* **2005b:62011**)
— (*with* Ohta, Eri) Profile analysis based on repeated measurements—a new approach to the analysis of interaction. (English summary) (*see* **2005a:62017**)
Hsu, Yu-Sheng Laws of the iterated logarithm for sample moments and applications. (English summary) **2005k:60096**
Kang, Seung-Ho (*with* Kim, Su-Jin) A comparison of the three conditional exact tests in two-way contingency tables using the unconditional exact power. (English summary)
Kijima, Shuji (*with* Matsui, Tomomi) Polynomial time perfect sampling algorithm for two-rowed contingency tables. (English summary) **2005g:68191**
Kim, Su-Jin *see* **Kang, Seung-Ho**
Kuroda, Masahiro (*with* Geng, Zhi) Bayesian inference for categorical data with misclassification errors. (English summary) (*see* **2005a:62014**)
Laird, Nan M. *see* **Slasor, Peter**, (**2005a:62015**)
Lauro, Carlo (*with* Siciliano, Roberta) Analyse non symétrique des correspondances pour des tables de contingences. [Nonsymmetric correspondence analysis for contingency tables] (*see* **2005m:62006**)
Lee, Ji-Hyun (*with* Qaqish, Bahjat F.) Modified GEE and goodness of the marginal fit (GOMF) test with correlated bindary responses for contingency tables. (English summary)
Liu, Ivy *see* **Wang, Dong Q. et al.**
Matsui, Tomomi *see* **Kijima, Shuji**, **2005g:68191**
Menéndez, María Luisa Phi-divergence test statistics for trends in binary responses. **2005j:62112**
Mondot, A. M. *see* **Aït-Sidi-Allal, M. L. et al.**, **2005b:62051**
Moreau, Jean *see* **Cazes, Pierre**, (**2005m:62006**)
Nadarajah, Saralees *see* **Gupta, Arjun K.**, **2005a:62039**
Nishisato, Shizuhiko Le "dual scaling" et ses applications. [Dual scaling and its applications] (*see* **2005m:62006**)
Ohta, Eri *see* **Hirotsu, Chihiro**, (**2005a:62017**)
Oluyede, Broderick O. On local dependence and stochastic inequalities with applications to contingency tables. (English summary) **2005a:60029**
Onn, Shmuel *see* **De Loera, Jesús A.**, **2005b:68140**
Ottoy, Jean-Pierre *see* **Thas, Olivier**
Paterlini, Sandra *see* **Roverato, Alberto**
Qaqish, Bahjat F. *see* **Lee, Ji-Hyun**
de Rooij, Mark Studying triadic distance models under a likelihood function. (English summary) (*see* **2005b:62010**)
Roverato, Alberto (*with* Paterlini, Sandra) Technological modelling for graphical models: an approach based on genetic algorithms. (English summary)
Sen, Pranab Kumar[1] *see* **Silvapulle, Mervyn J.**, **2005k:62004**
Siciliano, Roberta *see* **Lauro, Carlo**, (**2005m:62006**)
Silvapulle, Mervyn J. (*with* Sen, Pranab Kumar[1]) ★ Constrained statistical inference. **2005k:62004**
Slasor, Peter (*with* Laird, Nan M.) Categorical auxiliary data in the discrete time proportional hazards model. (*see* **2005a:62015**)
Thas, Olivier (*with* Ottoy, Jean-Pierre) An extension of the Anderson-Darling k-sample test to arbitrary sample space partition sizes. (English summary)
Veronese, Piero *see* **Consonni, Guido et al.**, **2005d:62118**
Wang, Dong Q. (*with* Critchley, F.; Liu, Ivy) Diagnostics analysis and perturbations in a clustered sampling model. (English summary)

62H20 Measures of association (correlation, canonical correlation, etc.)

Adam, Maria (*with* Maroulas, John) Canonical correlations in multi-way layout. (English summary) **2005m:62117**
Ahmed, S. E. (*with* Khan, Sohail Munawar) Using several data to structure efficient estimation of intraclass correlation coefficients. (English summary) (*see* **2005b:62010**)
Alfò, Marco (*with* Trovato, Giovanni) Semiparametric mixture models for multivariate count data, with application. (English summary)
Anderson, Murray *see* **Jenkins, Larry**
Arbia, G. (*with* Lafratta, G.) Spatial correlation estimates based on satellite observations corrected with the prior knowledge on sensor devices' technical characteristics. (English and Italian summaries)
Baba, Kunihiro (*with* Shibata, Ritei; Sibuya, Masaaki) Partial correlation and conditional correlation as measures of conditional independence. (English summary) **2005k:62153**
Bai, Zhi-Dong (*with* He, Xuming) A chi-square test for dimensionality with non-Gaussian data. (English summary) **2005b:62126**
Bąk, Andrzej *see* **Jajuga, K. et al.**, (**2005b:62008**)
Batsidis, Apostolos (*with* Zografos, Konstantinos) Measures of multivariate association and dependence. (*see* **2005i:62007**)
Besalú, E. (*with* de Julián-Ortiz, J. V.) Equivalence of the Pecka-Ponec correlation probability and the statistical F significance for MLR models. (English summary) **2005g:62104**
Bryc, Włodzimierz (*with* Dembo, Amir; Kagan, Abram) On the maximum correlation coefficient. (Russian summary) **2005m:62118**
Burda, Zdzisław (*with* Görlich, Andrzej Tomasz; Jarosz, A.; Jurkiewicz, Jerzy Władysław) Signal and noise in correlation matrix. (English summary)
Chaganty, N. Rao (*with* Joe, Harry) Efficiency of generalized estimating equations for binary responses. (English summary)
Chou, Rouh-Jane *see* **Hu, Yu-Pin**, **2005f:62099** *and* **Errata: "On the Peña-Box model"**
Crawford, John R. *see* **Garthwaite, Paul H.**
Darolles, Serge (*with* Florens, Jean-Pierre; Gouriéroux, Christian) Kernel-based nonlinear canonical analysis and time reversibility. (English summary) **2005b:62127**
Dauxois, Jacques (*with* Nkiet, Guy Martial; Romain, Yves) Linear relative canonical analysis of Euclidean random variables, asymptotic study and some applications. (English summary) **2005d:62099**
Dembo, Amir *see* **Bryc, Włodzimierz et al.**, **2005m:62118**
Donner, Allan *see* **Zou, Guangyong**
Fernández, Begoña (*with* González-Barrios, José M.) Multidimensional dependency measures. (English summary) **2005j:62128**
Florens, Jean-Pierre *see* **Darolles, Serge et al.**, **2005b:62127**
Garthwaite, Paul H. (*with* Crawford, John R.) The distribution of the difference between two t-variates. (English summary)
Gelman, Andrew Treatment effects in before-after data. (*see* **2005m:62005**)
Geng, Zhi *see* **Li, Kai Can**, **2005f:62100**
González-Barrios, José M. *see* **Fernández, Begoña**, **2005j:62128**
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Gouriéroux, Christian *see* **Darolles, Serge et al.**, **2005b:62127**
Gupta, Arjun K. (*with* Nagar, Daya K.) Distribution of the determinant of the sample correlation matrix from a mixture normal model. (English summary) **2005i:62086**
He, Guozhong (*with* Müller, Hans-Georg; Wang, Jane-Ling) Functional canonical analysis for square integrable stochastic processes. (English summary) **2005f:62098**
He, Xuming *see* **Bai, Zhi-Dong**, **2005b:62126**
Hemsworth, David *see* **Nishisato, Shizuhiko**, (**2005b:62011**)
Holgersson, H. E. T. Testing for multivariate autocorrelation. (English summary) **2005c:62105**
Hryniewicz, Olgierd Measures of association for fuzzy ordered categorical data. (*see* **2005i:62007**)
Hu, Yu-Pin (*with* Chou, Rouh-Jane) On the Penã-Box model. (English summary) **2005f:62099**
— *see also* **Errata: "On the Peña-Box model"**
Jajuga, K. (*with* Walesiak, M.; Bąk, Andrzej) On the general distance measure. (English summary) (*see* **2005b:62008**)
Jana, Nishikanta (*with* Pal, Madhumangal) Correlation of interval numbers. (English summary)
Jarosz, A. *see* **Burda, Zdzisław et al.**
Jaworski, Piotr On uniform tail expansions of bivariate copulas. (English summary) **2005m:62119**
Jenkins, Larry (*with* Anderson, Murray) Omitting correlated variables. (English and Spanish summaries)

Jiang, Tiefeng The limiting distributions of eigenvalues of sample correlation matrices. (English summary) **2005g:62105**
Joe, Harry *see* **Chaganty, N. Rao**
de Julián-Ortiz, J. V. *see* **Besalú, E., 2005g:62104**
Juri, Alessandro (*with* Wüthrich, Mario V.) Tail dependence from a distributional point of view. (English summary) **2005i:62087**
Jurkiewicz, Jerzy Władysław *see* **Burda, Zdzisław et al.**
Kagan, Abram *see* **Bryc, Włodzimierz et al., 2005m:62118**
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Khan, Sohail Munawar *see* **Ahmed, S. E., (2005b:62010)**
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Kurata, Hiroshi Inequalities associated with intra-inter-class correlation matrices. (English summary) **2005b:62128**
Lafratta, G. *see* **Arbia, G.**
Lee, Mei-Ling Ting *see* **Shubina, Maria, 2005b:62130**
Li, Kai Can (*with* Geng, Zhi) Properties of the mixed derivative measures of interaction and their application. (Chinese. English and Chinese summaries) **2005f:62100**
Liu, Ci Hua *see* **Shen, Yan, 2005i:62089**
Maroulas, John *see* **Adam, Maria, 2005m:62117**
Müller, Hans-Georg *see* **He, Guozhong et al., 2005f:62098**
Nagar, Daya K. *see* **Gupta, Arjun K., 2005i:62086**
Nelsen, Roger B. Concordance and copulas: a survey. (English summary) (*see* **2005a:62016**)
Nishisato, Shizuhiko (*with* Hemsworth, David) Quantification of ordinal variables: a critical inquiry into polychoric and canonical correlation. (English summary) (*see* **2005b:62011**)
Nkiet, Guy Martial *see* **Dauxois, Jacques et al., 2005d:62099**
Nomakuchi, Kentaro *see* **Sakata, Toshio et al., 2005b:62129**
Novak, S. Yu. On Gebelein's correlation coefficient. (English summary) **2005i:62088**
Oshima-Takane, Yuriko *see* **Takane, Yoshio, (2005b:62010)**
Ostrovska, Sofia I. Uncorrelatedness sets of bounded random variables. (English summary) **2005f:62101**
Pal, Madhumangal *see* **Jana, Nishikanta**
Romain, Yves *see* **Dauxois, Jacques et al., 2005d:62099**
Romanazzi, Mario Data depth and correlation. (English summary)
Sakata, Toshio (*with* Sawae, Ryuichi; Nomakuchi, Kentaro) Maximum likelihood estimation of correlation matrix under inequality constraints using Gibbs sampling. (English summary) **2005b:62129**
Santhanam, M. S. (*with* Kantz, Holger) Random matrix approach to multivariate correlations: some limiting cases. (English summary)
Sawae, Ryuichi *see* **Sakata, Toshio et al., 2005b:62129**
Shen, Yan (*with* Liu, Ci Hua) Analysis of applied effect of partial least squares regression. (Chinese. English and Chinese summaries) **2005i:62089**
Shibata, Ritei *see* **Baba, Kunihiro et al., 2005k:62153**
Shubina, Maria (*with* Lee, Mei-Ling Ting) On maximum attainable correlation and other measures of dependence for the Sarmanov family of bivariate distributions. (English summary) **2005b:62130**
Sibuya, Masaaki *see* **Baba, Kunihiro et al., 2005k:62153**
Suich, Ronald C. (*with* Turek, Richard J.) An asymptotic partial correlation test for the Goodman-Kruskal λ. (English summary)
Suzukawa, Akio (*with* Taneichi, Nobuhiro) Redundancy index in canonical correlation analysis with linear constraints. (English summary) (*see* **2005b:62010**)
Takane, Yoshio (*with* Oshima-Takane, Yuriko) Nonlinear generalized canonical correlation analysis by neural network models. (English summary) (*see* **2005b:62010**)
Taneichi, Nobuhiro *see* **Suzukawa, Akio, (2005b:62010)**
Tanokura, Yoko (*with* Kitagawa, Genshiro) Power contribution analysis for multivariate time series with correlated noise sources. (English summary)
Toma, Aida Robust estimators of the correlation matrix for the multivariate lognormal distribution. (English summary) **2005d:62100**
Trovato, Giovanni *see* **Alfò, Marco**
Turek, Richard J. *see* **Suich, Ronald C.**
Vengerovskiĭ, V. V. Asymptotics of the correlator of an ensemble of sparse random matrices. (Russian. English, Russian and Ukrainian summaries) **2005i:62090**
Walesiak, M. *see* **Jajuga, K. et al., (2005b:62008)**
Wang, Jane-Ling *see* **He, Guozhong et al., 2005f:62098**
Wüthrich, Mario V. *see* **Juri, Alessandro, 2005i:62087**
Yin, Xiangrong Canonical correlation analysis based on information theory. (English summary) **2005c:62106**
Zografos, Konstantinos *see* **Batsidis, Apostolos, (2005i:62007)**
Zou, Guangyong (*with* Donner, Allan) Confidence interval estimation of the intraclass correlation coefficient for binary outcome data. (English summary)

Items listed otherwise than by author

Errata:
"On the Peña-Box model" Erratum: "On the Peña-Box model" [J. Time Ser. Anal. **25** (2004), no. 6, 811–830; MR2099641 (2005f:62099)] by Y.-P. Hu and R.-J. Chou.

Items with secondary classifications in 62H20

Aït-Sidi-Allal, M. L. (*with* Baccini, A.; Mondot, A. M.) A new algorithm for estimating the parameters and their asymptotic covariance in correlation and association models. (English summary) **2005b:62051**
Albert, Dietrich *see* **Ünlü, Ali, 2005g:91160**
Alink, Stan (*with* Löwe, Matthias; Wüthrich, Mario V.) Diversification of aggregate dependent risks. (English summary) **2005e:62022**
Almeida, Fernanda R. Zanforlin *see* **Louzada-Neto, Francisco et al.**
Alves, José Ferreira ★ Statistical analysis of non-uniformly expanding dynamical systems. **2005e:37057**
Andrade, Christiano Santos *see* **Louzada-Neto, Francisco et al.**
Anento, Napoleón *see* **Perelló, Josep et al.**
Baccini, A. *see* **Aït-Sidi-Allal, M. L. et al., 2005b:62051**
Bandyopadhyay, Shibdas *see* **Bandyopadhyay, Subhadip, 2005c:62108**
Bandyopadhyay, Subhadip (*with* Bandyopadhyay, Shibdas) Choosing a better training sample for classifying an individual into one of two correlated normal populations. (English summary) **2005c:62108**
Barbé, A. (*with* von Haeseler, F.) Correlation functions of higher-dimensional automatic sequences. (English summary) **2005h:11050**
Barker, H. Anthony *see* **Tan, Ai Hui et al.**
Berezanskiĭ, Yuriĭ Makarovich The generalized moment problem associated with correlation measures. (Russian) **2005e:47057**
Borodin, A. M. Asymptotic representation theory and Riemann-Hilbert problem. (English summary) **2005b:47039**
Boscardin, W. John (*with* Zhang, Xiao^2) Modeling the covariance and correlation matrix of repeated measures. (*see* **2005m:62005**)
Bretz, Frank *see* **Genz, Alan et al., (2005i:62006)**
Bushtruk, A. D. (*with* Bushtruk, T. N.) A correlation-spectral method for the identification of quasistationary time processes. (Russian. Russian summary) **2005k:93227**
Bushtruk, T. N. *see* **Bushtruk, A. D., 2005k:93227**
Cardin, Marta (*with* Ferretti, Paola) Comparing bivariate risks: measures of dependence, concordance, diversification. (English summary) **2005b:91140**
Cardoso, Jean-François Dependence, correlation and Gaussianity in independent component analysis. (English summary)
Carey, Vincent J. *see* **Wang, You-Gan**
Chakraborti, Subhabrata *see* **Gibbons, Jean Dickinson, 2005a:62003**
Chen, Feng Statistical methods for dependent data. (*see* **2005c:62003**)
Chen, Ming-Hui (*with* Ibrahim, Joseph G.; Sinha, Debajyoti) A new joint model for longitudinal and survival data with a cure fraction. (English summary)
Cirillo, Marcelo Angelo (*with* Ferreira, Daniel Furtado) Evaluation of the p-dimensional Behrens-Fisher problem by Monte Carlo and bootstrap simulation. (Portuguese. English and Portuguese summaries)
Codling, E. A. (*with* Hill, N. A.) Sampling rate effects on measurements of correlated and biased random walks. (English summary)
Csörgő, Sándor Weighted correlation tests for location-scale families. (English summary) **2005h:62067**
Dauxois, Jacques (*with* Nkiet, Guy Martial; Romain, Yves) Canonical analysis relative to a closed subspace. (English summary) **2005h:46039**
DelSole, Timothy Predictability and information theory. I. Measures of predictability. (English summary) **2005g:86015**
Devetak, Igor (*with* Winter, Andreas) Distilling common randomness from bipartite quantum states. (English summary)
Dong, Zhi Shan (*with* Yang, Xiao Yun) The lower bound estimate of moderate deviation for NA random variables with stationary distribution. (Chinese. English and Chinese summaries) **2005d:60050**
Drton, Mathias (*with* Perlman, Michael D.) Model selection for Gaussian concentration graphs. (English summary)
Drury, S. W. Maximizing traces of matrix functions. (English summary) **2005e:15024**
Edwards, H. H. (*with* Mikusiński, Piotr; Taylor, M. D.) Measures of concordance determined by D_4-invariant measures on $(0,1)^2$. (English summary) **2005j:62119**
Engelen, S. (*with* Hubert, Mia; Vanden Branden, Karlien; Verboven, S.) Robust PCR and robust PLSR: a comparative study. (English summary) (*see* **2005c:62006**)
Ferreira, Daniel Furtado *see* **Cirillo, Marcelo Angelo**
Ferretti, Paola *see* **Cardin, Marta, 2005b:91140**
Fredricks, Gregory A. (*with* Nelsen, Roger B.) The Bertino family of copulas. (English summary) **2005f:60035**
Gasser, Theo *see* **Rousson, Valentin**
Genz, Alan (*with* Bretz, Frank; Hochberg, Yosef) Approximations to multivariate t integrals with application to multiple comparison procedures. (English summary) (*see* **2005i:62006**)
Gibbons, Jean Dickinson (*with* Chakraborti, Subhabrata) ★ Nonparametric statistical inference. **2005a:62003**
Godfrey, Keith R. *see* **Tan, Ai Hui et al.**
Götze, Friedrich (*with* Merkl, Franz) Random spectral distributions. (English summary) **2005k:15050**
Groenewald, Pieter C. N. (*with* Mokgatlhe, Lucky) Bayesian analysis of bivariate interval censored survival data. (English summary)
Ha, Il Do (*with* Lee, Youngjo) Multilevel mixed linear models for survival data. (English summary)
von Haeseler, F. *see* **Barbé, A., 2005h:11050**
Hanley, James A. "Transmuting" women into men: Galton's family data on human stature. (English summary)
Harmeling, Stefan *see* **Ziehe, Andreas et al.**
Harris, David^3 (*with* Poskitt, D. S.) Determination of cointegrating rank in partially non-stationary processes via a generalised von-Neumann criterion. (English summary) **2005c:62155**
Hart, Jeffrey D. (*with* Lee, Cherng-Luen) Robustness of one-sided cross-validation to autocorrelation. (English summary) **2005f:62088**
Heffernan, Janet E. (*with* Resnick, Sidney I.) Hidden regular variation and the rank transform. (English summary)
Hill, N. A. *see* **Codling, E. A.**
Hochberg, Yosef *see* **Genz, Alan et al., (2005i:62006)**
Hubert, Mia *see* **Engelen, S. et al., (2005c:62006)**
Hürlimann, Werner Multivariate Fréchet copulas and conditional value-at-risk. (English summary) **2005c:62029**
— On the economic risk capital of portfolio insurance. (English summary) **2005f:62025**
Ibrahim, Joseph G. *see* **Chen, Ming-Hui et al.**
Ip, Edward H. (*with* Wang, Yuchung J.; Yeh, Yeong-Nan) Structural decompositions of multivariate distributions with applications in moment and cumulant. (English summary) **2005b:62031**
Kanda, Jun (*with* Nishijima, Kazuyoshi) Multi-site wind and earthquake hazard analyis via multivariate extreme value distributions. (Japanese. English and Japanese summaries) **2005h:62293**

Kawanabe, Motoaki *see* **Ziehe, Andreas et al.**
Kiesel, R. (*with* Stadtmüller, Ulrich) Dimensions of credit risk. (English summary) (*see* **2005b:62008**)
Kim, Donghoh *see* **Kim, Tae Yoon et al., 2005b:62073**
Kim, Tae Yoon (*with* Kim, Donghoh; Park, Byeong U.; Simpson, Douglas G.) Nonparametric detection of correlated errors. (English summary) **2005b:62073**
Lee, Cherng-Luen *see* **Hart, Jeffrey D., 2005f:62088**
Lee, Youngjo *see* **Ha, Il Do**
Lin, Jin Guan (*with* Wei, Bo Cheng) Testing for homogeneity of variance and autocorrelation coefficients in nonlinear models of longitudinal data with AR(1) errors. (Chinese. English and Chinese summaries) **2005m:62131**
Louzada-Neto, Francisco (*with* Andrade, Christiano Santos; Almeida, Fernanda R. Zanforlin) On the non-identifiability problem arising on the poly-Weibull model. (English summary)
Löwe, Matthias *see* **Alink, Stan et al., 2005e:62022**
Masoliver, Jaume *see* **Perelló, Josep et al.**
Matiyasevich, Yu. V. Some probabilistic restatements of the four color conjecture. (English summary) **2005d:05066**
Matuła, Przemysław A note on some inequalities for certain classes of positively dependent random variables. (English summary) **2005j:60038**
Merkl, Franz *see* **Götze, Friedrich, 2005k:15050**
Mikusiński, Piotr *see* **Edwards, H. H. et al., 2005j:62119**
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Pardo Llorente, Julio Ángel (*with* Pardo, Leandro; Pardo, María del Carmen; Zografos, Konstantinos) An exploratory canonical analysis approach for multinomial populations based on the φ-divergence measure. (English summary) **2005h:62162**
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Park, Chul Gyu Construction of random vectors of heterogeneous component variables under specified correlation structures. (English summary)
Pène, Françoise Multiple decorrelation and rate of convergence in multidimensional limit theorems for the Prokhorov metric. (English summary) **2005g:60041**
Perelló, Josep (*with* Masoliver, Jaume; Anento, Napoleón) A comparison between several correlated stochastic volatility models. (English summary)
Perlman, Michael D. *see* **Drton, Mathias**
Petrosyan, Agavni *see* **Saberi, Kourosh**
Poskitt, D. S. *see* **Harris, David[3], 2005c:62155**
Raghavachari, M. Measures of concordance for assessing agreement in ratings and rank order data. (English summary) **2005k:62062**
Razdan, Ashok Wavelet correlation coefficient of 'strongly correlated' time series. (English summary) **2005h:62257**
Reilly, Cavan (*with* Wang, Changchun; Rutherford, Mark) A rapid method for the comparison of cluster analyses. (English summary)
Resnick, Sidney I. *see* **Heffernan, Janet E.**
Rödel, Egmar R-estimation of optimal transformations via copulas and ACE. (English summary) **2005a:62154**
Rodríguez Lallena, José Antonio (*with* Úbeda Flores, Manuel) A new class of bivariate copulas. (English summary) **2005a:62129**
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Rousson, Valentin (*with* Gasser, Theo) Simple component analysis. (English summary)
Rutherford, Mark *see* **Reilly, Cavan et al.**
Saberi, Kourosh (*with* Petrosyan, Agavni) Neural cross-correlation and signal decorrelation: insights into coding of auditory space. (English summary)
Shashua, Amnon *see* **Wolf, Lior, 2005k:68175**
Simpson, Douglas G. *see* **Kim, Tae Yoon et al., 2005b:62073**
Sinha, Debajyoti *see* **Chen, Ming-Hui et al.**
Sivia, D. S. Some thoughts on correlated noise. (English summary) (*see* **2005c:62004**)
Smadi, Abdullah A. A comparison between the autocorrelation functions of seasonal ARMA and PARMA models. (English summary)
Solé, Ricard V. (*with* Valverde, Sergi) Information theory of complex networks: on evolution and architectural constraints. (English summary) **2005k:94011**
Stadtmüller, Ulrich *see* **Kiesel, R., (2005b:62008)**
Takane, Yoshio Matrices with special reference to applications in psychometrics. (English summary)
Tan, Ai Hui (*with* Godfrey, Keith R.; Barker, H. Anthony) Application of multi-level signals to the identification of direction-dependent processes. (English summary)
Tanaka, Yutaka[1] (*with* Zhang, Fang Hong[2]; Yang, W. S.) Diagnostics in multivariate data analysis: sensitivity analysis for principal components and canonical correlations. (English summary) (*see* **2005b:62008**)
Taylor, M. D. *see* **Edwards, H. H. et al., 2005j:62119**
Trosset, Michael W. Visualizing correlation. (English summary)
Úbeda Flores, Manuel A method for constructing trivariate distributions with given bivariate margins. (English summary) **2005j:62122**
— *see also* **Rodríguez Lallena, José Antonio, 2005a:62129**
Ünlü, Ali (*with* Albert, Dietrich) The correlational agreement coefficient $CA(\leq, D)$—a mathematical analysis of a descriptive goodness-of-fit measure. (English summary) **2005g:91160**
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Verboven, S. *see* **Engelen, S. et al., (2005c:62006)**
Wang, Changchun *see* **Reilly, Cavan et al.**
Wang, You-Gan (*with* Carey, Vincent J.) Unbiased estimating equations from working correlation models for irregularly timed repeated measures. (English summary)
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Wei, Bo Cheng *see* **Lin, Jin Guan, 2005m:62131**
Winter, Andreas *see* **Devetak, Igor**
Wolf, Lior (*with* Shashua, Amnon) Learning over sets using kernel principal angles. (English summary) **2005k:68175**
von Wolfersdorf, Lothar (*with* Wegert, Elias) On a class of nonlinear cross-correlation equations. (English summary) **2005f:45008**
Wüthrich, Mario V. Bivariate extension of the Pickands-Balkema-de Haan theorem. (English and French summaries) **2005b:62044**
— *see also* **Alink, Stan et al., 2005e:62022**
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Zhang, Xiao[2] *see* **Boscardin, W. John, (2005m:62005)**
Zhu, Jun[5] (*with* Yue, Wei) A multiresolution tree-structured spatial linear model. (English summary)
Ziehe, Andreas (*with* Kawanabe, Motoaki; Harmeling, Stefan; Müller, Klaus-Robert) Blind separation of post-nonlinear mixtures using linearizing transformations and temporal decorrelation. (English summary)
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Abdessemed, Lila (*with* Escofier, Brigitte) Analyse de l'interaction et de la variabilité inter et intra dans un tableau de fréquence ternaire. [Analysis of interaction and of inter- and intra-variability in a ternary frequency table] (*see* **2005m:62006**)
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Baba, Yasumasa (*with* Nakamura, Takahiro) Time dependent principal component analysis. (English summary) (*see* **2005b:62010**)
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Bar-Hen, Avner (*with* Mortier, Frédéric) Influence and sensitivity measures in correspondence analysis. (English summary) **2005a:62145**
Basalyga, Gleb (*with* Rattray, Magnus) Statistical dynamics of on-line independent component analysis. (English summary)
Bavaud, François Generalized factor analyses for contingency tables. (English summary) (*see* **2005i:62003**)
Benali, Habib L'analyse des correspondances multiples lissées et l'analyse des correspondances multiples des différences locales. [Smooth multiple correspondence analysis and multiple correspondence analysis of local differences] (*see* **2005m:62006**)
Benkard, C. Lanier (*with* Bajari, Patrick) Hedonic price indexes with unobserved product characteristics, and application to personal computers. (English summary)
Calero, Julio (*with* Delgado, Gabriel; Serrano, José-María; Sánchez, Daniel; Vila, María-Amparo) A proposal of fuzzy correspondence analysis based on flexible data mining techniques. (*see* **2005i:62007**)
Cardoso, Jean-François Dependence, correlation and Gaussianity in independent component analysis. (English summary)
Cazes, Pierre (*with* Moreau, Jean) Analyse des correspondances d'un tableau de contingence dont les lignes et les colonnes sont munies d'une structure de graphe bistochastique. [Correspondence analysis of a contingency table whose rows and columns have a bistochastic graph structure] (*see* **2005m:62006**)
— *see also* **Moreau, Jean et al., (2005m:62006)**
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Cuadras, Carles M. Diagonal distributions via orthogonal expansions and tests of independence. (English summary) (*see* **2005a:62016**)
— (*with* Lahlou, Younes) Principal components of the Pareto distribution. (English summary) (*see* **2005a:62016**)
Cui, Heng-jian (*with* He, Xuming; Ng, Kai W.) Asymptotic distributions of principal components based on robust dispersions. (English summary) **2005b:62131**
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Doudin, Pierre-André *see* **Moreau, Jean et al., (2005m:62006)**
D'Urso, Pierpaolo (*with* Giordani, Paolo[1]) A possibilistic approach to latent component analysis for symmetric fuzzy data. (English summary)
Ellis, Steven P. Instability of statistical factor analysis. (English summary) **2005e:62092**
Ergon, Rolf Informative PLS score-loading plots for process understanding and monitoring. (English summary)
Escabias, M. (*with* Aguilera Del Pino, Ana Ma.; Valderrama Bonnet, Mariano J.) Principal component estimation of functional logistic regression: discussion of two different approaches. (English summary)
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He, Xuming *see* **Cui, Heng-jian et al., 2005b:62131**
van der Heijden, Peter G. M. (*with* Teunissen, Joop; van Orlé, Charles) L'analyse des correspondances multiples: un outil pour la classification de données de cursus.

[Multiple correspondence analysis: a tool for the classification of curriculum data] (*see* **2005m:62006**)

Hubert, Mia (*with* Rousseeuw, Peter J.; Vanden Branden, Karlien) ROBPCA: a new approach to robust principal component analysis. (English summary)

Jordan, Michael I. *see* **Bach, Francis R.**

Keeling, Kellie B. (*with* Pavur, Robert J.) A comparison of methods for approximating the mean eigenvalues of a random matrix. (English summary)

Kim, Ahyoung *see* **Lee, Soonmook**, (**2005b:62010**)

Kroonenberg, Pieter M. (*with* Oort, Frans J.) Three-mode analysis of multimode covariance matrices. (English summary)

Lahlou, Younes *see* **Cuadras, Carles M.**, (**2005a:62016**)

Lauro, Carlo (*with* Siciliano, Roberta) Analyse non symétrique des correspondances pour des tables de contingences. [Nonsymmetric correspondence analysis for contingency tables] (*see* **2005m:62006**)

Learned-Miller, Erik G. (*with* Fisher, John W., III) ICA using spacings estimates of entropy. (English summary)

Lee, Soonmook (*with* Kim, Ahyoung) A three-step approach to factor analysis on data of multiple testlets. (English summary) (*see* **2005b:62010**)

de Leeuw, Jan (*with* Michailidis, George) Weber correspondence analysis: the one-dimensional case.

Li, Hong Wei² *see* **Wang, Fa Song et al.**, **2005k:62155**

Maeda, Tadahiko *see* **Yanai, Haruo**, (**2005b:62010**)

Matsuo, Hiroko *see* **Otsu, Tatsuo**, (**2005b:62011**)

Matyja, Olaf (*with* Szczesny, Wiesław) Grade correspondence analysis and outlier detection. (*see* **2005e:62008**)

Michailidis, George *see* **de Leeuw, Jan**

Moreau, Jean (*with* Doudin, Pierre-André; Cazes, Pierre) Étude de la variabilité intra-individuelle par l'analyse des correspondances. [Study of intra-individual variability by correspondence analysis] (*see* **2005m:62006**)

— *see also* **Cazes, Pierre**, (**2005m:62006**)

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Neudecker, Heinz On best affine unbiased covariance-preserving prediction of factor scores. (English and Catalan summaries) **2005c:62107**

Ng, Kai W. *see* **Cui, Heng-jian et al.**, **2005b:62131**

Nishisato, Shizuhiko Le "dual scaling" et ses applications. [Dual scaling and its applications] (*see* **2005m:62006**)

Ogasawara, Haruhiko Bias reduction of estimated standard errors in factor analysis. (English summary) **2005i:62091**

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Otsu, Tatsuo (*with* Matsuo, Hiroko) MTV and MGV: two criteria for nonlinear PCA. (English summary) (*see* **2005b:62011**)

Pavur, Robert J. *see* **Keeling, Kellie B.**

Pruzek, Robert M. Borrowing strength from images to facilitate exploratory structural analysis of binary variables. (*see* **2005b:62010**)

Rattray, Magnus *see* **Basalyga, Gleb**

de Resende, Marcos Deon Vilela (*with* Thompson, Robin) Factor analytic multiplication mixed models in the analysis of multiple experiments. (English and Portuguese summaries)

Rousseeuw, Peter J. *see* **Hubert, Mia et al.**

Rousson, Valentin (*with* Gasser, Theo) Simple component analysis. (English summary)

Ruan, Qing (*with* Wang, Yi-qiang) PCA approach to BP learning. (English and Chinese summaries) **2005m:62120**

Sánchez, Daniel *see* **Calero, Julio et al.**, (**2005i:62007**)

Sato-Ilic, Mika Weighted principal component analysis based on fuzzy clustering. (English summary)

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Tenenhaus, Michel A PLS approach to multiple table analysis. (English summary) (*see* **2005i:62003**)

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Thompson, Robin *see* **de Resende, Marcos Deon Vilela**

Trendafilov, Nickolay T. Dynamical system approach to factor analysis parameter estimation. (English summary)

Valderrama Bonnet, Mariano J. *see* **Escabias, M. et al.**

Vanden Branden, Karlien *see* **Hubert, Mia et al.**

van de Velden, Michel *see* **Groenen, Patrick J. F.**, **2005d:62101**

Vila, María-Amparo *see* **Calero, Julio et al.**, (**2005i:62007**)

Wang, Fa Song (*with* Li, Hong Wei²; Shen, Yuan Tong) An algorithm for blind source separation based on Infomax and its stability. (Chinese. English and Chinese summaries) **2005k:62155**

Wang, Yi-qiang *see* **Ruan, Qing**, **2005m:62120**

Yanai, Haruo (*with* Maeda, Tadahiko) Partial multiple correspondence analysis. (English summary) (*see* **2005b:62010**)

Yang, Xiao Ping Factor analysis of item non-response data. (Chinese. English and Chinese summaries) **2005d:62102**

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Adachi, Kohei Homogeneity and smoothness analysis for quantifying a longitudinal categorical variable. (English summary) (*see* **2005b:62010**)

Albera, Laurent (*with* Ferréol, Anne; Comon, Pierre; Chevalier, Pascal) Blind identification of overcomplete mixtures of sources (BIOME). (English summary) **2005f:94016**

Anderson, Murray *see* **Jenkins, Larry**

Badcock, Julie (*with* Bailey, Trevor C.; Jonathan, Philip; Krzanowski, Wojtek J.) Two projection methods for use in the analysis of multivariate process data with an illustration in petrochemical production. (English summary)

Bailey, Trevor C. *see* **Badcock, Julie et al.**

Bécue-Bertaut, Mónica (*with* Lebart, Ludovic) Analyse statistique de réponses ouvertes: application à des enquêtes auprès de lycéens. [Statistical analysis of answers to open-ended questions: application to surveys of high school students] (*see* **2005m:62006**)

— (*with* Pagès, Jérôme; Pardo, Campo-Elías) Analysis of cross-language open-ended questions through MFACT. (English summary) (*see* **2005i:62003**)

Boente, Graciela (*with* Orellana, Liliana) Robust plug-in estimators in proportional scatter models. (English summary) **2005f:62054**

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Bukhanovsky, A. V. *see* **Kiryukhin, Ilia et al.**, (**2005c:00014**)

Cabuk, Altan *see* **Canbas, Serpil et al.**

Canbas, Serpil (*with* Cabuk, Altan; Kilic, Suleyman Bilgin) Prediction of commercial bank failure via multivariate statistical analysis of financial structures: the Turkish case. (English summary)

(Cazes, Pierre) *see* **Correspondence analysis and related methods**, **2005m:62006**

Center, Julian L., Jr. Blind source separation, independent component analysis, and pattern classification—connections and synergies. (English summary) (*see* **2005c:62004**)

Charbonnier, Pierre *see* **Dahyot, Rozenn et al.**

Chen, Lan Sun *see* **Tao, Feng-mei et al.**

Chevalier, Pascal *see* **Albera, Laurent et al.**, **2005f:94016**

Comon, Pierre *see* **Albera, Laurent et al.**, **2005f:94016**

Cristianini, Nello *see* **Shawe-Taylor, John et al.**, (**2005a:68003**)

Dahyot, Rozenn (*with* Charbonnier, Pierre; Heitz, Fabrice) A Bayesian approach to object detection using probabilistic appearance-based models. (English summary)

Dolan, Conor V. *see* **Lubke, Gitta H. et al.**

(Doudin, Pierre-André) *see* **Correspondence analysis and related methods**, **2005m:62006**

Eldén, Lars Partial least-squares vs. Lanczos bidiagonalization. I. Analysis of a projection method for multiple regression. (English summary) **2005a:62157**

Ferréol, Anne *see* **Albera, Laurent et al.**, **2005f:94016**

(Fulcher, John) *see* **Applied intelligent systems**, **2005j:68004**

Girard, Stéphane (*with* Iovleff, Serge) Auto-associative models and generalized principal component analysis. (English summary) **2005h:62147**

Groenen, Patrick J. F. (*with* Poblome, J.) Constrained correspondence analysis for seriation in archaeology applied to Sagalassos ceramic tablewares. (English summary) (*see* **2005b:62008**)

— (*with* Meulman, Jacqueline J.) A comparison of the ratio of variances in distance-based and classical multivariate analysis. (English summary) **2005g:62125**

Gupta, Gopal Krishna Principal component analysis and Bayesian classifier based character recognition. (English summary) (*see* **2005c:62004**)

Heitz, Fabrice *see* **Dahyot, Rozenn et al.**

Hinton, Geoffrey E. *see* **Teh, Yee Whye et al.**

Honda, Katsuhiro (*with* Ichihashi, Hidetomo) Component-wise robust linear fuzzy clustering for collaborative filtering. (English summary)

Hornišová, Klára Intrinsic linearization of nonlinear regression by principal components method. (English summary)

Ichihashi, Hidetomo *see* **Honda, Katsuhiro**

Iovleff, Serge *see* **Girard, Stéphane**, **2005h:62147**

(Jain, Lakhmi C.) *see* **Applied intelligent systems**, **2005j:68004**

Jang, Gil-Jin (*with* Lee, Te-Won) A maximum likelihood approach to single-channel source separation. (English summary)

Jenkins, Larry (*with* Anderson, Murray) Omitting correlated variables. (English and Spanish summaries)

Jonathan, Philip *see* **Badcock, Julie et al.**

Kandola, Jaz *see* **Shawe-Taylor, John et al.**, (**2005a:68003**)

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— (*with* Mikhaĭlova, L. V.) Simultaneous detection in a quasiperiodic sequence of a given

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Khamidullin, S. A. *see* **Kel′manov, A. V., 2005m:62122**

Khan, Mynul H. *see* **Ramnath, Sarnath et al., (2005i:62003)**

Kharin, Yuriĭ (*with* Kostevich, A.) Discriminant analysis of stationary finite Markov chains. (English summary) **2005g:62109**

Kim, Dae-Won *see* **Kim, Young-Il[3] et al.**

Kim, Young-Il[3] (*with* Kim, Dae-Won; Lee, Doheon; Lee, Kwang H.) A cluster validation index for GK cluster analysis based on relative degree of sharing. (English summary)

Klawonn, Frank Fuzzy clustering: insights and a new approach. (English summary)

Kłopotek, Mieczysław A. (*with* Woch, Marcin) Very large Bayesian networks in text classification. (English summary) (*see* **2005c:00014**)

Konishi, Sadanori *see* **Nonaka, Yoshisuke** *and* **Ando, Tomohiro et al.**

Koski, Timo *see* **Gyllenberg, Mats et al., (2005d:92001)**

Kosorok, Michael R. *see* **Gangnon, Ronald E., 2005b:62134**

Kostevich, A. *see* **Kharin, Yuriĭ, 2005g:62109**

Krauth, Joachim Tests for one-dimensional nearest neighbors clusters. (English summary) (*see* **2005b:62008**)

Kreinovich, Vladik (*with* Pauwels, Eric J.; Ferson, Scott A.; Ginzburg, Lev) A feasible algorithm for locating concave and convex zones of interval data and its use in statistics-based clustering. (English summary)

Kreuseler, M. (*with* Nocke, T.; Schumann, Heidrun) Integration of cluster analysis and visualization techniques for visual data analysis. (English summary) (*see* **2005b:62008**)

Kroon, Steve (*with* Omlin, Christian W.) Getting to grips with support vector machines: theory. (English summary)

— (*with* Omlin, Christian W.) Getting to grips with support vector machines: application. (English summary)

Kruse, Rudolf *see* **Timm, Heiko et al.**

Kshirsagar, Anant M. *see* **Mentz, Graciela B.**

Lallemand, Pascale *see* **Hardy, André, (2005i:62003)**

Landajo, Manuel Classification techniques, sample size and predictive performance: a comparative analysis based on a Spanish case. (*see* **2005i:62007**)

Larrañaga, Pedro *see* **Miquélez, Teresa et al.**

Laskov, Pavel *see* **Mika, Sebastian et al., (2005g:62004)**

Lechevallier, Yves *see* **de Carvalho, Francisco de A. T. et al., (2005i:62003); de Souza, Renata M. C. R. et al., (2005i:62003)** *and* **Hébrail, Georges, (2005i:62003)**

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Ledenev, A. V. *see* **Gvishiani, A. D. et al., 2005h:62168**

Lee, Doheon *see* **Kim, Young-Il[3] et al.**

Lee, Heow Pueh *see* **Sun, Yan Feng et al., 2005e:62097**

Lee, Kwang H. *see* **Kim, Young-Il[3] et al.**

Lee, Myoung-Jae (*with* Li, Wen-juan) Drift and diffusion function specification for short-term interest rates. (English summary)

Lee, Seong Keon On classification and regression trees for multiple responses. (English summary) (*see* **2005i:62003**)

Lengellé, Régis *see* **Abdallah, Fahed et al., 2005e:62093**

Lerman, Israël-César *see* **Bachar, Kaddour, (2005i:62003)**

Li, Chin-Shang (*with* Cheng, Cheng) Stable classification with applications to microarray data. (English summary)

Li, De Qing *see* **Zhao, Cai Xia et al., 2005k:62162**

Li, Hong Xing *see* **Zhao, Cai Xia et al., 2005k:62162** *and* **Song, Wen Yan et al., 2005m:62127**

Li, Kan (*with* Liu, Yu-shu) Mercer kernel based fuzzy clustering self-adaptive algorithm. (English summary)

Li, Ker-Chau *see* **Chen, Chun-Houh, (2005h:62009)**

Li, Lexin (*with* Cook, R. Dennis; Nachtsheim, Christopher J.) Cluster-based estimation for sufficient dimension reduction. (English summary)

Li, Wen-juan *see* **Lee, Myoung-Jae**

Li, Xiang Ru (*with* Wu, Fu Chao; Hu, Zhan Yi) Convergence of a mean shift algorithm. (Chinese. English and Chinese summaries) **2005m:62124**

Li, Yan[6] (*with* Cui, Jian Fu; Ma, Lei[2]; Shi, Lei[2]) Application of local influence analysis in support vector machines. (Chinese. English and Chinese summaries) **2005m:62125**

Li, Zhao Yang (*with* Wang, Yuan Quan; Xia, De Shen) The dispute on the dimension problem of optimal discriminant features. (Chinese. English and Chinese summaries) **2005a:62148**

Liang, Gin-Shuh (*with* Chou, Tsung-Yu; Han, Tzeu-Chen) Cluster analysis based on fuzzy equivalence relation. (English summary)

Liang, Yan Chun *see* **Sun, Yan Feng et al., 2005e:62097**

Limam, Mohamed Mehdi (*with* Diday, Edwin; Winsberg, Suzanne) Probabilistic allocation of aggregated statistical units in classification trees for symbolic class description. (English summary) (*see* **2005i:62003**)

Limouri, Mohammed *see* **Essaqote, Hafida et al.**

Lin, Chih-Jen *see* **Chen, Pai-Hsuen et al.**

Lin, Wu Zhong[2] *see* **Sun, Yan Feng et al., 2005e:62097**

Lin, Xinggang *see* **Yang, Shuping**

Lin, Yi[5] A note on margin-based loss functions in classification. (English summary) **2005e:62096**

Liu, Ivy *see* **Wang, Dong Q. et al.**

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Liu, Yufeng (*with* Shen, Xiaotong; Doss, Hani) Multicategory ψ-learning and support vector machine: computational tools. (English summary) **2005k:62160**

Lugosi, Gábor (*with* Vayatis, Nicolas) On the Bayes-risk consistency of regularized boosting methods. (English summary) **2005d:62107**

— (*with* Wegkamp, Marten H.) Complexity regularization via localized random penalties. (English summary) **2005h:62169**

— *see also* **Discussion of "Process consistency for AdaBoost", "On the Bayes-risk consistency of regularized boosting methods" and "Statistical behavior and consistency of classification methods based on convex risk minimization", 2005d:62109** *and* **Blanchard, Gilles et al., 2005k:62156**

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Mali, Kalyani (*with* Mitra, Sushmita) Symbolic classification, clustering and fuzzy radial basis function network. (English summary)

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Mallick, Bani K. (*with* Ghosh, Debashis; Ghosh, Malay) Bayesian classification of tumours by using gene expression data. (English summary)

Malyscheff, A. M. *see* **Trafalis, T. B., (2005a:90005)**

Mammen, Enno (*with* Tsybakov, A. B.) Correction: "Smooth discrimination analysis" [Ann. Statist. **27** (1999), no. 6, 1808–1829; MR1765618 (2001i:62074)]. **2005g:62110**

Mansour, Yishay *see* **Freund, Yoav et al., 2005h:62167**

Marchette, David J. ★ Random graphs for statistical pattern recognition. **2005f:62104**

— *see also* **Priebe, Carey E. et al., (2005b:94011)**

Marcotorchino, François Dualité Burt-Condorcet: relation entre analyse factorielle des correspondances et analyse relationnelle. [Burt-Condorcet duality: relation between factional correspondence analysis and relational analysis] (*see* **2005m:62006**)

Mariani, Luigi *see* **Miceli, Rosalba et al.**

Martín Andrés, A. (*with* Femia Marzo, P.) Delta: a new measure of agreement between two raters. (English summary)

Martín-Herrero, J. Hybrid cluster identification. (English summary)

Matsumoto, Chieko An optimal discriminant rule in the class of linear and quadratic discriminant functions for large dimension and samples. (English summary) **2005h:62170**

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Maybank, Stephen J. Fisher information and model selection for projective transformations of the line. (English summary) **2005c:62112**

McAllester, David (*with* Ortiz, Luis) Concentration inequalities for the missing mass and for histogram rule error. (English summary) **2005j:62133**

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McLachlan, Geoffrey J. (*with* Ng, Sze Kui; Peel, David) On clustering by mixture models. (English summary) (*see* **2005b:62008**)

Melek, William W. (*with* Goldenberg, Andrew A.; Emami, M. R.) A fuzzy noise-rejection data partitioning algorithm. (English summary)

Meng, Xiao-Li *see* **Vaida, Florin et al., (2005m:62005)**

Mentz, Graciela B. (*with* Kshirsagar, Anant M.) Classification using growth curves. (English summary)

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Mevik, Bjørn-Helge Assessing the performance of classifiers when classes arise from a continuum. (English summary)

Miao, Li (*with* Gu, Yun Dong; Feng, Yan Bin; Wang, Jia Yin) A method to decrease the distortion of fuzzy clustering. (Chinese. English and Chinese summaries) **2005m:62126**

Miceli, Rosalba (*with* Lusa, Lara; Mariani, Luigi) Revising a prognostic index developed for classification purposes: an application to gastric cancer data. (English summary)

Miglio, Rossella (*with* Soffritti, Gabriele) Proximity measures between classification trees. (English summary) (*see* **2005f:62007**)

Mika, Sebastian (*with* Schäfer, Christin; Laskov, Pavel; Tax, D. M. J.; Müller, Klaus-Robert) Support vector machines. (*see* **2005g:62004**)

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Miquélez, Teresa (*with* Bengoetxea, Endika; Larrañaga, Pedro) Evolutionary computation based on Bayesian classifiers. (English summary)

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Moustafa, Hanem M. (*with* Ramadan, S. G.) Errors of misclassification and their probability distributions when the parent populations are Gompertz. (English summary)

— The efficiency of a nonlinear discriminant function based on unclassified initial samples from a mixture of two Weibull populations. (English summary)

Mucha, Hans-Joachim An intelligent clustering technique based on dual scaling. (English summary) (*see* **2005b:62010**)

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Murtagh, Fionn On ultrametricity, data coding, and computation. (English summary)

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Noh, Hyun Gon (*with* Song, Moon Sup; Park, Sung Hyun) An unbiased method for constructing multilabel classification trees. (English summary)

Nonaka, Yoshisuke (*with* Konishi, Sadanori) Logistic discrimination based on regularized local likelihood method. (English summary)

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Oh, Kyong Joo (*with* Roh, Tae Hyup; Moon, Myung Sang) Developing time-based clustering neural networks to use change-point detection: application to financial time series. (English summary)

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Olshen, A. B. (*with* Cosman, P. C.; Rodrigo, A. G.; Bickel, Peter J.; Olshen, R. A.) Vector quantization of amino acids: analysis of the HIV V3 loop region. (English summary)

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Ombao, Hernando *see* **Huang, Hsiao-Yun et al., 2005d:62105**

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Orsenigo, Carlotta (*with* Vercellis, Carlo) Discrete support vector decision trees via tabu search. (English summary)

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— *see also* **Johannsen, David A. et al.**
Qi, Xian (*with* Hu, Guang Hua; Ping, Xin Jun) Vicinal risk minimization method based on optimal distance measure. (Chinese. English and Chinese summaries)
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— (*with* Yanagihara, Hirokazu; Ohtaki, Megu) Clustering method by connected neighborhoods and its application. (English summary)
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Song, Wen Yan (*with* Yu, Li Na; Li, Hong Xing) A revised version of fuzzy clustering method based on perturbation. (Chinese. English and Chinese summaries) **2005m:62127**
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— *see also* **de Carvalho, Francisco de A. T. et al., (2005f:62007)** *and* **(2005i:62003)**
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Su, Xiaogang (*with* Wang, Morgan; Fan, Juanjuan) Maximum likelihood regression trees. (English summary)
Sun, Yan Feng (*with* Liang, Yan Chun; Wu, Chunguo; Yang, Xiao Wei[1]; Lee, Heow Pueh; Lin, Wu Zhong[2]) Estimate of error bounds in the improved support vector regression. (English summary) **2005e:62097**
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Takeuchi, Akinobu (*with* Yadohisa, Hiroshi; Inada, Koichi) Measures and admissibilities for the structure of clustering. (English summary) (*see* **2005b:62010**)
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Timm, Heiko (*with* Borgelt, Christian; Döring, Christian; Kruse, Rudolf) An extension to possibilistic fuzzy cluster analysis. (English summary)
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Wishart, D. k-means clustering with outlier detection, mixed variables and missing values. (English summary) (*see* **2005b:62008**)
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Zalesskiĭ, B. A. Gibbs classifiers. (Russian. Russian summary) **2005i:62096**
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Zhang, Hao Helen *see* **Ferris, Michael C. et al.**
Zhang, He Ping[1] Recursive partitioning and tree-based methods. (*see* **2005g:62004**)
Zhang, Tong[2] Statistical behavior and consistency of classification methods based on convex risk minimization. (English summary) **2005d:62108**
— *see also* **Discussion of "Process consistency for AdaBoost", "On the Bayes-risk consistency of regularized boosting methods" and "Statistical behavior and consistency of classification methods based on convex risk minimization"**, 2005d:62109
Zhao, Cai Xia (*with* Li, De Qing; Feng, Yan Bin; Li, Hong Xing) A fuzzy clustering method based on synthetic evaluation. (Chinese. English and Chinese summaries) **2005k:62162**
Zhu, Ji (*with* Hastie, Trevor) Kernel logistic regression and the import vector machine. (English summary)
Zhuk, E. E. Cluster analysis of the realizations of autoregression time series. (Russian. Russian summary) **2005i:62097**
Zimak, Dav *see* **Har-Peled, Sariel et al.**, (2005a:68003)
Zlotniki, Zh. *see* **Gvishiani, A. D. et al.**, 2005h:62168

Items listed otherwise than by author

Discussion of "Process consistency for AdaBoost", "On the Bayes-risk consistency of regularized boosting methods" and "Statistical behavior and consistency of classification methods based on convex risk minimization" Discussion of: "Process consistency for AdaBoost" [Ann. Statist. **32** (2004), no. 1, 13–29; MR2050999 (2005d:62106)] by W. Jiang, "On the Bayes-risk consistency of regularized boosting methods" [ibid., 30–55; MR2051000 (2005d:62107)] by G. Lugosi and N. Vayatis, and "Statistical behavior and consistency of classification methods based on convex risk minimization" [ibid., 56–85; MR2051001 (2005d:62108)] by T. Zhang. **2005d:62109**

Items with secondary classifications in 62H30

Abe, Shigeo *see* **Kaieda, Kenichi**, 2005f:68126
Abellán, Joaquín (*with* Moral, Serafín) Upper entropy of credal sets. Applications to credal classification. (English summary) **2005m:68179**
Abney, Steven Understanding the Yarowsky algorithm. (English summary) **2005d:68132**
Acín, Antonio (*with* Bagan, E.; Baig, Mariano; Masanes, Ll.; Muñoz-Tapia, R.) Multiple-copy two-state discrimination with individual measurements. (English summary) **2005m:81014**
Acuña, Edgar (*with* Rodriguez, Caroline) The treatment of missing values and its effect on classifier accuracy. (English summary) (*see* **2005i:62003**)
Agarwal, Manju Lata (*with* Aggarwal, Sudhanshu) A heuristic reliability optimization algorithm for complex systems based on measures of reliability importance. (English summary)
Aggarwal, Sudhanshu *see* **Agarwal, Manju Lata**
Aggarwala, Rita *see* **Chowdhury, Abdul H.**
Aldous, David J. A tractable complex network model based on the stochastic mean-field model of distance. (English summary) **2005h:05183**
Alfò, Marco (*with* Vitiello, Cecilia) Finite mixtures approach to ecological regression. (English summary)
Anitori, Paola (*with* De Gregorio, Carlo) A proposal of classification of wholesale trade enterprises on the base of structural and performance indicators. (English summary) (*see* **2005f:62007**)
Anthony, Martin Some connections between learning and optimization. (English summary) **2005e:68205**
(Arabie, Phipps) *see* **Classification, clustering, and data mining applications**, 2005i:62003
Arboretti Giancristofaro, R. (*with* Salmaso, L.) Model performance analysis and model validation in logistic regression. (English and Italian summaries)
Arnoux, Mireille (*with* Lechevallier, Yves; Tanasa, Doru; Trousse, Brigitte; Verde, Rosanna) Automatic clustering for the web usage mining. (English summary)
Arpe, Jan (*with* Reischuk, Rüdiger) Robust inference of relevant attributes. (English summary) (*see* **2005a:68004**)
Aytar, Salih Statistical limit points of sequences of fuzzy numbers. (English summary) **2005d:03093**
Baba, Yasumasa *see* **Nakamura, Takahiro et al.**
Bacelar-Nicolau, Helena *see* **Silva, A. L. et al.**, 2005i:62009
Bach, Francis R. (*with* Jordan, Michael I.) Beyond independent components: trees and clusters. (English summary)
Bagan, E. *see* **Acín, Antonio et al.**, 2005m:81014
Baig, Mariano *see* **Acín, Antonio et al.**, 2005m:81014
(Banks, David Lane) *see* **Classification, clustering, and data mining applications**, 2005i:62003
Barcena, María Jesús (*with* Tusell, Fernando) Fitting multivariate responses using scalar trees. (English summary) **2005c:62015**
Bartels, John *see* **Clermont, Gilles et al.**, (2005i:62003)
Barthélemy, Jean-Pierre (*with* Brucker, François; Osswald, Christophe) Combinatorial optimization and hierarchical classifications. (English summary) **2005h:90102**
Basu, Srabashi (*with* Landis, J. Richard) Model-based estimates of population attributable risks for ordinal data. (English summary)
Beck, Sebastian (*with* Mikut, R.; Jäkel, J.) A cost-sensitive learning algorithm for fuzzy rule-based classifiers. (English summary) **2005k:68169**
Beecher, Chris *see* **Simmons, Susan J. et al.**, (2005i:62003)
Bender, Michael A. (*with* Sethia, Saurabh; Skiena, Steven S.) Data structures for maintaining set partitions. (English summary) **2005a:68049**
Berikov, V. B. A priori estimates for recognition accuracy in the case of a small training sample size. (Russian. Russian summary) **2005a:62030**
Berzal, Fernando (*with* Cubero, Juan-Carlos; Marín, Nicolás; Sánchez, Daniel) Building multi-way decision trees with numerical attributes. (English summary)
Bezdek, J. C. *see* **Runkler, T. A.**, (2005b:62008)
Bhattacharya, Debopam Asymptotic inference from multi-stage samples. (English summary)
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Bizzarri, Federico *see* **Schimming, Thomas et al.**, 2005f:37177
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Bober, Mirosław *see* **Skarbek, Władysław et al.**, 2005b:62139
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(Bock, Hans-Hermann) *see* **Advances in multivariate data analysis**, 2005f:62007
Bogacka, Barbara *see* **Uciński, Dariusz**
Bohnen, Nicolaas I. (*with* Buliga, Marius G.; Constantine, Gregory M.) Classifying the state of Parkinsonism by using electronic force platform measures of balance. (English summary) **2005i:62154**
Bonissone, Piero P. Development and maintenance of fuzzy models in financial applications. (*see* **2005i:62007**)
Bratcher, Tom L. *see* **Stamey, James D. et al.**
Brijs, Tom *see* **Janssens, Davy et al.**
Brucker, François *see* **Barthélemy, Jean-Pierre et al.**, 2005h:90102
Brusco, Michael J. (*with* Cradit, J. Dennis) ConPar: a method for identifying groups of concordant subject proximity matrices for subsequent multidimensional scaling analyses. (English summary) **2005k:91241**
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Burke, Robin *see* **Sieg, Ahu et al.**, (2005i:62003)
Cabuk, Altan *see* **Canbas, Serpil et al.**
Cai, Zhipeng (*with* Heydari, Maysam; Lin, Guo-Hui) Clustering binary oligonucleotide fingerprint vectors for DNA clone classification analysis. (English summary)
Calò, Daniela G. *see* **Pillati, Marilena**, (2005f:62007)
Canbas, Serpil (*with* Cabuk, Altan; Kilic, Suleyman Bilgin) Prediction of commercial bank failure via multivariate statistical analysis of financial structures: the Turkish case. (English summary)
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Caraco, Thomas *see* **Korniss, György**
Carlsson, A. E. *see* **Mahani, Alireza S. et al.**, 2005e:82086
Center, Julian L., Jr. Blind source separation, independent component analysis, and pattern classification—connections and synergies. (English summary) (*see* **2005c:62004**)
Cesa-Bianchi, Nicolò (*with* Conconi, Alex; Gentile, Claudio) On the generalization ability of on-line learning algorithms. (English summary) **2005g:68140**
Chakraborti, Subhabrata *see* **Gibbons, Jean Dickinson**, 2005a:62003
Chen, Chingfer *see* **Karlin, Samuel**, 2005k:62246
Chen, Chun-Houh *see* **Tsai, Chen-An et al.**
Chen, Danny Z. *see* **Wu, Xiaodong[1] et al.**, (2005a:05002)
(Chen, Dechang) *see* **Pattern recognition and string matching**, 2005b:68003
Chen, Guo Qing *see* **Yan, Peng[2]**
Chen, James J. *see* **Tsai, Chen-An et al.**
Chen, Yi Xin[2] (*with* Li, Jia[3]; Wang, James Z.) ★ Machine learning and statistical modeling approaches to image retrieval. **2005d:62002**
Cheng, Ke *see* **Song, Feng Xi et al.**
Cheng, Ming-Yen (*with* Hall, Peter G.; Hartigan, John A.) Estimating gradient trees. (English summary) (*see* **2005i:62005**)
(Cheng, Xiuzhen) *see* **Pattern recognition and string matching**, 2005b:68003
Chiarulli, Donald *see* **Grigoryan, Vahan et al.**, (2005i:62003)
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(Chiodi, Marcello) *see* **Advances in multivariate data analysis**, 2005f:62007
Cho, Kwang-Hyun *see* **Möller-Levet, C. S. et al.**
Chow, Carson C. *see* **Clermont, Gilles et al.**, (2005i:62003)
Chowdhury, Abdul H. (*with* Aggarwala, Rita) Identification of censored response data in a multivariate experiment. (English summary)
Cidotă, Marina Discriminative learning between the states of the hidden Markov model for speech recognition. (English summary)
Clermont, Gilles (*with* Chow, Carson C.; Constantine, Gregory M.; Vodovotz, Yoram; Bartels, John) Mathematical and statistical modeling of acute inflammation. (English summary) (*see* **2005i:62003**)
Coleman, Tommy *see* **Hung, Chih-Cheng et al.**
Conan-Guez, Brieuc (*with* Rossi, Fabrice) Phoneme discrimination with functional multi-layer perceptrons. (English summary) (*see* **2005i:62003**)
— *see also* **El Golli, Aïcha et al.**, (2005i:62003)
Conconi, Alex *see* **Cesa-Bianchi, Nicolò et al.**, 2005g:68140
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Croux, C. *see* **Joossens, K.**, (2005c:62006)
Cubero, Juan-Carlos *see* **Berzal, Fernando et al.**
Dasika, Madhukar S. (*with* Gupta, Anshuman; Maranas, Costas D.) DEMSIM: a discrete event based mechanistic simulation platform for gene expression and regulation dynamics. (English summary)
De Bie, Tijl (*with* Momma, Michinari; Cristianini, Nello) Efficiently learning the metric with side-information. (English summary) (*see* **2005a:68004**)
De Gregorio, Carlo *see* **Anitori, Paola**, (2005f:62007)
Denizhan, Y. *see* **Iplikci, S.**, 2005c:82073
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Dobson, Annette J. ★ An introduction to generalized linear models. **2005a:62001**
Donner, Allan *see* **Zou, Guangyong**
Dourado, António *see* **Paiva, Rui Pedro**
Dubhashi, Devdatt (*with* Laura, Luigi; Panconesi, Alessandro) Analyis and experimental evaluation of a simple algorithm for collaborative filtering in planted partition models (extended abstract). (English summary) (*see* **2005d:68008**)
Duchateau, Luc (*with* Janssen, Paul) Penalized partial likelihood for frailties and smoothing splines in time to first insemination models for dairy cows. (English summary)
Duin, R. P. W. *see* **van der Heijden, F. et al.**, **2005h:62004**
Dziechciarz, J. *see* **Kwiatkowska-Ciotucha, D. et al.**, (**2005b:62008**)
El Golli, Aïcha (*with* Conan-Guez, Brieuc; Rossi, Fabrice) A self-organizing map for dissimilarity data. (English summary) (*see* **2005i:62003**)
Faghihi, M. R. *see* **Vahidi-ASL, Mohammad Q.**
Ferguson, Thomas S. (*with* Tatsuoka, Curtis) An optimal strategy for sequential classification on partially ordered sets. (English summary) **2005e:62111**
Fleury, Gilles Alain (*with* Hero, A. O., III; Zareparsi, S.; Swaroop, Anand) Gene discovery using Pareto depth sampling distributions. (English summary) **2005a:92004**
Forster, Jürgen (*with* Simon, Hans Ulrich) On the smallest possible dimension and the largest possible margin of linear arrangements representing given concept classes uniform distribution. (English summary) (*see* **2005a:68003**)
Fuh, Cheng-Der *see* **Hung, Wen-Liang et al.**
Fujie, Koichi *see* **Kunihiro, Tadao et al.** *and* **Nakamura, Takahiro et al.**
Fujita, Masafumi *see* **Kunihiro, Tadao et al.**
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Ganguly, Niloy *see* **Maji, Pradipta et al.**, **2005d:68095**
Garrett, Elizabeth S. (*with* Parmigiani, Giovanni) A nested unsupervised approach to identifying novel molecular subtypes. (English summary)
(Gaul, Wolfgang) *see* **Classification, clustering, and data mining applications**, **2005i:62003**
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Ghosh, Joydeep *see* **Zhong, Shi**
Gibbons, Jean Dickinson (*with* Chakraborti, Subhabrata) ★ Nonparametric statistical inference. **2005a:62003**
Giorgi, Giovanni Maria (*with* Pittau, Maria Grazia; Zelli, Roberto) Regional empirics for economic disparities in Italy: 1951–2001. (English summary)
Godehardt, E. (*with* Jaworski, Jerzy) Two models of random intersection graphs for classification. (English summary) **2005e:05125**
Goh, Su Lee *see* **Mandic, Danilo P. et al.**, (**2005b:00018**)
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Grigoryan, Vahan (*with* Chiarulli, Donald; Hauskrecht, Milos) Subject filtering for passive biometric monitoring. (English summary) (*see* **2005i:62003**)
Guimarães, G. (*with* Urfer, W.) Self-organizing maps and its applications in sleep apnea research and molecular genetics. (English summary) (*see* **2005b:62008**)
Gupta, Anshuman *see* **Dasika, Madhukar S. et al.**
Gupta, Arjun K. (*with* Nadarajah, Saralees) On the moments of the beta normal distribution. (English summary) **2005a:62039**
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Hall, Peter G. *see* **Cheng, Ming-Yen et al.**, (**2005i:62005**)
Hammer, Peter L. (*with* Kogan, Alexander[1]; Simeone, Bruno; Szedmák, Sándor) Pareto-optimal patterns in logical analysis of data. (English summary) **2005e:62006**
— (*with* Liu, Yan Pei; Simeone, Bruno; Szedmák, Sándor) Saturated systems of homogeneous boxes and the logical analysis of numerical data. (English summary)
Han, Xu *see* **Yang, Xiao Wei[1] et al.**
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He, Wenqing (*with* Lawless, Jerald F.) Bivariate location-scale models for regression analysis, with applications to lifetime data. (English summary)
He, Zhen Feng (*with* Xiong, Fan Lun) A constrained partition model and K-means algorithm. (Chinese. English and Chinese summaries)
Heath, Simon C. Genetic linkage analysis using Markov chain Monte Carlo techniques. (*see* **2005b:62009**)
Hechenbichler, Klaus *see* **Tutz, Gerhard**
van der Heijden, F. (*with* Duin, R. P. W.; de Ridder, D.; Tax, D. M. J.) ★ Classification, parameter estimation and state estimation. **2005h:62004**
van der Heijden, Peter G. M. (*with* Teunissen, Joop; van Orlé, Charles) L'analyse des correspondances multiples: un outil pour la classification de données de cursus. [Multiple correspondence analysis: a tool for the classification of curriculum data] (*see* **2005m:62006**)
Hennig, Christian Breakdown points for maximum likelihood estimators of location-scale mixtures. (English summary) **2005b:62100**
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Höppner, F. (*with* Klawonn, Frank) Learning fuzzy systems—an objective function-approach. (English summary)
Hothorn, Torsten (*with* Pal, I.; Gefeller, O.; Lausen, Berthold; Michelson, G.; Paulus, D.) Automated classification of optic nerve head topography images for glaucoma screening. (English summary) (*see* **2005b:62008**)
(House, Leanna L.) *see* **Classification, clustering, and data mining applications**, **2005i:62003**
Hu, Hong Ying *see* **Kunihiro, Tadao et al.** *and* **Nakamura, Takahiro et al.**
Hubert, Mia (*with* Rousseeuw, Peter J.; Vanden Branden, Karlien) ROBPCA: a new approach to robust principal component analysis. (English summary)
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Hüllermeier, Eyke (*with* Renners, I.; Grauel, A.) An evolutionary approach to constraint-regularized learning. (English summary)
Hung, Chih-Cheng (*with* Scheunders, Paul; Pham, Minh; Su, Mu-Chun; Coleman, Tommy) Using intelligent optimization techniques in the K-means algorithm for multispectral image classification. (English summary)
Hung, Wen-Liang (*with* Lee, Jinn-Shing; Fuh, Cheng-Der) Fuzzy clustering based on intuitionistic fuzzy relations. (English summary)
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Joossens, K. (*with* Croux, C.) Empirical comparison of the classification performance of robust linear and quadratic discriminant analysis. (English summary) (*see* **2005c:62006**)
Jordan, Michael I. *see* **Bach, Francis R.**
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Kauffman, Stuart A proposal for using the ensemble approach to understand genetic regulatory networks. (English summary)
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Kivinen, Jyrki (*with* Smola, Alexander J.; Williamson, Robert C.) Large margin classification for moving targets. (English summary) (*see* **2005a:68003**)
Klawonn, Frank *see* **Höppner, F.** *and* **Möller-Levet, C. S. et al.**
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Klose, Aljoscha (*with* Kruse, Rudolf) Information mining with semi-supervised learning. (*see* **2005i:62007**)
— (*with* Kruse, Rudolf) Semi-supervised learning in knowledge discovery. (English summary)
— *see also* **Nürnberger, A. et al.**, (**2005b:62008**)
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Kurihara, Koji Classification of geospatial lattice data and their graphical representation. (English summary) (*see* **2005i:62003**)
— (*with* Ono, Yoshiro) Relationships between polycyclic aromatic hydrocarbons and environmental factors. (Japanese. English and Japanese summaries)
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— Priors for neural networks. (English summary) (*see* 2005i:62003)
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Lee, Mei-Ling Ting (*with* Whitmore, George A.) Intensity-dependent normalization in microarray analysis: a note of concern. (English summary)
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Liang, Hua (*with* Ren, Haobo) Generalized partially linear measurement error models. (English summary) 2005k:62176
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Lin, Cheng-Jian (*with* Ho, Wen-Hao) An asymmetry-similarity-measure-based neural fuzzy inference system. (English summary)
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Liu, Yan Pei *see* **Hammer, Peter L. et al.**
Löffler, M. Market-segments of automotive brands: letting multivariate analyses reveal additional insights. (English summary) (*see* 2005b:62008)
Long, Philip M. Efficient algorithms for learning functions with bounded variation. (English summary) 2005c:68120
Lu, Shou-En (*with* Wang, Mei-Cheng) Marginal analysis for clustered failure time data. (English summary)
Lu, Ying (*with* Jin, Hua; Mi, Jie) On comparison of two classification methods with survival endpoints. 2005k:62233
Magen, Avner Dimensionality reductions that preserve volumes and distance to affine spaces, and their algorithmic applications. (English summary) 2005a:68237
Mahani, Alireza S. (*with* Carlsson, A. E.; Wessel, R.) Mixing two sets of noisy measurements changes the N-dependence of resolution to a fourth-root power law. (English summary) 2005e:82086
Maji, Pradipta (*with* Shaw, Chandrama; Ganguly, Niloy; Sikdar, Biplab K.; Pal Chaudhuri, Parimal) Theory and application of cellular automata for pattern classification. (English summary) 2005d:68095
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Mandic, Danilo P. (*with* Goh, Su Lee; Hanna, Andrew) Data-reusing algorithm for complex-valued adaptive filters. (*see* 2005b:00018)
Mannor, Shie (*with* Meir, Ron; Zhang, Tong^2) Greedy algorithms for classification—consistency, convergence rates, and adaptivity. (English summary) 2005f:68133
Mao, Ze Chun (*with* Liu, Jin E) A regression model based on double parameters Poisson distribution and its applications to risk classification. (Chinese. English and Chinese summaries) 2005i:62150
Maranas, Costas D. *see* **Dasika, Madhukar S. et al.**
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Marron, J. S. (*with* Hernandez-Campos, Felix; Smith, F. Donelson) A sizer analysis of IP flow start times. (English summary) (*see* 2005h:62009)
Martinussen, Torben (*with* Pipper, Christian B.) Estimation in the positive stable shared frailty Cox proportional hazards model. (English summary)
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Moustafa, Hanem M. (*with* Ramadan, S. G.) Updating and asymptotic relative efficiency of a non-linear discriminant function estimated from a mixture of two Gompertz populations. (English summary) 2005k:62084
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O'Gorman, Thomas W. Using adaptive methods to select variables in case-control studies. (English summary)
Omar, Mohamed Kamal (*with* Hasegawa-Johnson, Mark) Model enforcement: a unified feature transformation framework for classification and recognition. (English summary) 2005j:68088
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Orsenigo, Carlotta (*with* Vercellis, Carlo) Multivariate classification trees based on minimum features discrete support vector machines. (English summary) 2005a:90205
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Ozdemir, Müjgan Sagir Validity and inconsistency in the analytic hierarchy process. (English summary)
Paggiaro, Adriano (*with* Torelli, Nicola) The effect of classification errors in survival data analysis. (English summary)
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(Ruland, Frederick) *see* **Grade models and methods for data analysis**, 2005e:62008
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Saito, Takayuki (*with* Yadohisa, Hiroshi) ★ Data analysis of asymmetric structures. 2005j:62006
Saitoh, Saburou New norm type inequalities for linear mappings. (English summary) 2005d:41046
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Sánchez, Daniel *see* **Berzal, Fernando et al.**
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Saran, J. (*with* Pandey, Aparna) Recurrence relations for marginal and joint moment generating functions of generalized order statistics from Lomax distribution. (English summary) 2005f:62082

Sato-Ilic, Mika Weighted principal component analysis based on fuzzy clustering. (English summary)
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Kucharski, Krzysztof *see* **Skarbek, Władysław et al.**, 2005b:62139
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McNamee, Rebecca L. *see* **Eddy, William F.**, (2005g:62004)
Milanfar, Peyman *see* **Elad, Michael et al.**
Or, S. H. *see* **Wong, Kin Hong et al.**, (2005d:35008)
Park, Heon Jin *see* **Cardot, Hervé et al.**
Pătrângenaru, Victor (*with* Patrangenaru, Vlad P.) Mean shapes, image fusion and scene reconstruction. (English summary) **2005m:62129**
Patrangenaru, Vlad P. *see* **Pătrângenaru, Victor**, 2005m:62129
Rue, Håvard *see* **Hurn, Merrilee et al.**, (2005b:62009)
Shen, Jianhong (*with* Jung, Yoon Mo) Geometric and stochastic analysis of reaction-diffusion patterns. (English summary)
Skarbek, Władysław (*with* Kucharski, Krzysztof; Bober, Mirosław) Dual LDA for face recognition. (English summary) **2005b:62139**
Steland, Ansgar On the distribution of the clipping median under a mixture model. (English summary) **2005m:62130**
Trubuil, Alain *see* **Hurn, Merrilee et al.**, (2005b:62009) *and* **Cardot, Hervé et al.**
Vasconcelos, Nuno Minimum probability of error image retrieval. (English summary)
Wong, Kin Hong (*with* Or, S. H.; Chang, M. M. Y.) Pose tracking for virtual walk-through environment construction. (English summary) (*see* **2005d:35008**)
Zarpak, B. *see* **Farnoosh, R.**

Items with secondary classifications in 62H35

Araabi, Babak N. *see* **Hatami, S. et al.**
Bacchelli, Silvia (*with* Papi, Serena) Filtered wavelet thresholding methods. (English summary) **2005e:94009**
Bachar, Kaddour (*with* Lerman, Israël-César) Fixing parameters in the constrained hierarchical classification method: application to digital image segmentation. (English summary) (*see* **2005i:62003**)
Barla, Annalisa *see* **Odone, Francesca et al.**
Basurto, M. (*with* Tebaldi, Claudio[1]) Characterization of time periodic behaviour by proper orthogonal decomposition. (English summary) (*see* **2005c:00016**)
Bereznev, V. A. (*with* Volkov, A. Yu.; Cherednichenko, I. N.) On the choice of parameters in an algorithm for recognizing separate handwritten text. (Russian. Russian summary) (*see* **2005i:00008**)
Bickel, Peter J. *see* **Olshen, A. B. et al.**
Bookstein, F. L. *see* **Mardia, Kanti V. et al.**
Cabrera, Javier (*with* Fernholz, Luisa Turrin) Multivariate targeting with applications to ellipse estimation. (English summary) **2005a:62140**
Chan, Yuk-Hee *see* **Fung, Yik-Hing et al.**, (2005d:35008)
Chellappa, Rama *see* **Qian, Gang et al.**
Chen, Yi Xin[2] (*with* Li, Jia[3]; Wang, James Z.) ★ Machine learning and statistical modeling approaches to image retrieval. **2005d:62002**
Cherednichenko, I. N. *see* **Bereznev, V. A. et al.**, (2005i:00008)
Chow, Shein-Chung (*with* Pong, Annpey) Statistics in biopharmaceutical research. (*see* **2005c:62003**)
Choy, Sheung-On *see* **Fung, Yik-Hing et al.**, (2005d:35008)
Coleman, Tommy *see* **Hung, Chih-Cheng et al.**
Collis, W. B. *see* **De Stefano, Antonio et al.**
Cosman, P. C. *see* **Olshen, A. B. et al.**
Crawford, Melba M. *see* **Lee, Sanghoon**, 2005h:94008
Demidenko, E. Z. ★ Mixed models. **2005e:62002**
Derado, Gordana (*with* Mardia, Kanti V.; Pătrângenaru, Victor; Thompson, Hilary W.) A shape-based glaucoma index for tomographic images. (English summary) **2005k:62244**
De Stefano, Antonio (*with* White, P. R.; Collis, W. B.) Selection of thresholding scheme for image noise reduction on wavelet components using Bayesian estimation. (English summary)
Dey, Dipak K. *see* **Micheas, Athanasios C.**, 2005g:60029
Di Giacinto, Valter (*with* Ippoliti, Luigi; Romagnoli, Luca) Space time noisy observation smoothing. (English summary) (*see* **2005f:62007**)
van Dyk, David A. (*with* Kang, Hosung) Highly structured models for spectral analysis in high-energy astrophysics. (English summary)
Faĭnzil'berg, L. S. Reconstruction of the pattern of cyclic signals, based on the use of the Hausdorff metric in a coordinate phase space. (Russian. English and Ukrainian summaries)
(Faugeras, Olivier) *see* **Hartley, Richard**, 2005b:68251
Felsberg, M. (*with* Sommer, Gerald) The monogenic scale-space: a unifying approach to phase-based image processing in scale-space. (English summary) **2005b:68273**
Fernholz, Luisa Turrin *see* **Cabrera, Javier**, 2005a:62140
(Förstner, Wolfgang) *see* **Heuel, Stephan**, 2005e:62003
Fung, Yik-Hing (*with* Chan, Yuk-Hee; Siu, Wan-Chi; Choy, Sheung-On) Restoring images with regularization in uncorrelated transform domain. (English summary) (*see* **2005d:35008**)
Griffith, Daniel A. Faster maximum likelihood estimation of very large spatial autoregressive models: an extension of the Smirov-Anselin result. (English summary)
Guo, Cheng-En *see* **Wu, Ying Nian et al.**, (2005m:62005)
Hartley, Richard (*with* Zisserman, Andrew) ★ Multiple view geometry in computer vision. **2005b:68251**
Hatami, S. (*with* Araabi, Babak N.; Lucas, Caro) A new fuzzy morphology approach based on the fuzzy-valued generalized Dempster-Shafer theory. (English summary)
Heuel, Stephan ★ Uncertain projective geometry. **2005e:62003**
Hung, Chih-Cheng (*with* Scheunders, Paul; Pham, Minh; Su, Mu-Chun; Coleman, Tommy) Using intelligent optimization techniques in the K-means algorithm for multispectral image classification. (English summary)
Ippoliti, Luigi (*with* Romagnoli, Luca) Adjusted least square estimation for noisy images. (English summary) (*see* **2005f:62007**)
— *see also* Di Giacinto, Valter et al., (2005f:62007)
Iske, Armin ★ Multiresolution methods in scattered data modelling. **2005f:94023**
Jin, Jesse S. Applications of statistical methods in medical imaging. (English summary) (*see* **2005c:62003**)
Johnstone, Iain M. (*with* Kerkyacharian, Gérard; Picard, Dominique; Raimondo, Marc E.) Wavelet deconvolution in a periodic setting. (English summary) **2005f:42087**
Kang, Hosung *see* **van Dyk, David A.**
Kerkyacharian, Gérard *see* **Johnstone, Iain M. et al.**, 2005f:42087
Kirkbride, J. *see* **Mardia, Kanti V. et al.**
Klose, Aljoscha (*with* Kruse, Rudolf) Semi-supervised learning in knowledge discovery. (English summary)
Kruse, Rudolf *see* **Klose, Aljoscha**
Lee, Sanghoon (*with* Crawford, Melba M.) Unsupervised multistage image classification using hierarchical clustering with a Bayesian similarity measure. (English summary) **2005h:94008**
Lerman, Israël-César *see* **Bachar, Kaddour**, (2005i:62003)
Leung, Henry *see* **Li, Winston**
Li, Jia[3] *see* **Chen, Yi Xin**[2] **et al.**, 2005d:62002
Li, Winston (*with* Leung, Henry) A maximum likelihood approach for image registration using control point and intensity. (English summary)
Lowe, David *see* **Stainvas, Inna**
Lucas, Caro *see* **Hatami, S. et al.**
Malpica, J. A. *see* **Mena, J. B.**
Mardia, Kanti V. (*with* Kirkbride, J.; Bookstein, F. L.) Statistics of shape, direction and cylindrical variables. (English summary)
— *see also* Derado, Gordana et al., 2005k:62244
Maybank, Stephen J. Fisher information and model selection for projective transformations of the line. (English summary) **2005c:62112**
Mena, J. B. (*with* Malpica, J. A.) Color image segmentation based on three levels of texture statistical evaluation. (English summary)
Micheas, Athanasios C. (*with* Dey, Dipak K.) Modeling shape distributions and inferences for assessing differences in shapes. (English summary) **2005g:60029**
Molchanov, Ilya S. Applications of random sets in image analysis. How to average a cat and

a dog? **2005j:60026**

Odone, Francesca (*with* Barla, Annalisa; Verri, Alessandro) Building kernels from binary strings for image matching. (English summary)

Olshen, A. B. (*with* Cosman, P. C.; Rodrigo, A. G.; Bickel, Peter J.; Olshen, R. A.) Vector quantization of amino acids: analysis of the HIV V3 loop region. (English summary)

Olshen, R. A. *see* **Olshen, A. B. et al.**

Papi, Serena *see* **Bacchelli, Silvia, 2005e:94009**

Pătrângenaru, Victor *see* **Derado, Gordana et al., 2005k:62244**

Pham, Minh *see* **Hung, Chih-Cheng et al.**

Picard, Dominique *see* **Johnstone, Iain M. et al., 2005f:42087**

Pong, Annpey *see* **Chow, Shein-Chung, (2005c:62003)**

Pruzek, Robert M. Borrowing strength from images to facilitate exploratory structural analysis of binary variables. (*see* **2005b:62010**)

Qian, Gang (*with* Chellappa, Rama; Zheng, Qinfen) Bayesian algorithms for simultaneous structure from motion estimation of multiple independently moving objects. (English summary)

Qiu, Peihua ★ Image processing and jump regression analysis. **2005h:62007**

Raimondo, Marc E. *see* **Johnstone, Iain M. et al., 2005f:42087**

Rodrigo, A. G. *see* **Olshen, A. B. et al.**

Romagnoli, Luca *see* **Di Giacinto, Valter et al., (2005f:62007)** *and* **Ippoliti, Luigi, (2005f:62007)**

Scherzer, Otmar Taut-string algorithm and regularization programs with G-norm data fit. (English summary) **2005m:62021**

Scheunders, Paul *see* **Hung, Chih-Cheng et al.**

Siu, Wan-Chi *see* **Fung, Yik-Hing et al., (2005d:35008)**

Sommer, Gerald *see* **Felsberg, M., 2005b:68273**

Stainvas, Inna (*with* Lowe, David) A generative model for separating illumination and reflectance from images. (English summary)

Su, Mu-Chun *see* **Hung, Chih-Cheng et al.**

Sun, Haojun *see* **Wang, Shengrui**

Tebaldi, Claudio[1] *see* **Basurto, M., (2005c:00016)**

Thompson, Hilary W. *see* **Derado, Gordana et al., 2005k:62244**

Vasconcelos, Nuno On the efficient evaluation of probabilistic similarity functions for image retrieval. (English summary) **2005e:68038**

Verri, Alessandro *see* **Odone, Francesca et al.**

Volkov, A. Yu. *see* **Bereznev, V. A. et al., (2005i:00008)**

Wang, James Z. *see* **Chen, Yi Xin[2] et al., 2005d:62002**

Wang, Shengrui (*with* Sun, Haojun) Measuring overlap-rate for cluster merging in a hierarchical approach to color image segmentation. (English summary)

White, P. R. *see* **De Stefano, Antonio et al.**

Wozniak, Michal Case- and rule-based algorithms for the contextual pattern recognition problem. (English summary) (*see* **2005g:65008**)

Wu, Ying Nian (*with* Guo, Cheng-En; Zhu, Song Chun) Perceptual scaling. (*see* **2005m:62005**)

Zheng, Qinfen *see* **Qian, Gang et al.**

Zhu, Song Chun *see* **Wu, Ying Nian et al., (2005m:62005)**

Zisserman, Andrew *see* **Hartley, Richard, 2005b:68251**

Items listed otherwise than by author

Lecture Notes in Computer Science *see* **Heuel, Stephan, 2005e:62003**

62H99 None of the above, but in this section

Micchelli, Charles A. (*with* Noakes, J. Lyle) Rao distances. (English summary) **2005i:62098**

Noakes, J. Lyle *see* **Micchelli, Charles A., 2005i:62098**

Items with secondary classifications in 62H99

Anderson, Stewart J. *see* **Mor, Maria K.**

Kokonendji, Célestin C. On UMVU estimator of the generalized variance for natural exponential families. (English summary) **2005d:62031**

Merkle, Milan Jensen's inequality for medians. (English summary) **2005m:60037**

Mor, Maria K. (*with* Anderson, Stewart J.) A Bayesian group sequential approach for multiple endpoints. (English summary)

Richards, Donald St. P. Total positivity properties of generalized hypergeometric functions of matrix argument. (English summary) **2005e:33008**

Schmid, Wolfgang P. *see* **Śliwa, Przemysław, 2005m:62171**

Schott, James R. ★ Matrix analysis for statistics. **2005h:15001**

Śliwa, Przemysław (*with* Schmid, Wolfgang P.) Monitoring the cross-covariances of a multivariate time series. (English summary) **2005m:62171**

Tsao, Min A new method of calibration for the empirical loglikelihood ratio. (English summary) **2005h:62059**

62Jxx Linear inference, regression

DeMaris, Alfred ★ Regression with social data. **2005c:62113**

Items with secondary classifications in 62Jxx

Cho, Hokwon A. *see* **Golberg, M. A., 2005d:62004**

Golberg, M. A. (*with* Cho, Hokwon A.) ★ Introduction to regression analysis. **2005d:62004**

62J02 General nonlinear regression

Ando, Tomohiro (*with* Konishi, Sadanori) Neural network nonlinear regression modeling and information criteria. (English summary) (*see* **2005a:62014**)

Aneiros-Pérez, Germán (*with* González-Manteiga, Wenceslao; Vieu, Philippe) Estimation and testing in a partial linear regression model under long-memory dependence. (English summary) **2005b:62140**

Aris, E. M. D. A note on the relation between multivariate strict collapsibility and conditional independence in directed loglinear models. (English summary) **2005g:62111**

Bao, Xinli (*with* Bozdogan, Hamparsum) Subsetting kernel regression models using genetic algorithm and the information measure of complexity. (*see* **2005i:62003**)

Bickel, Peter J. *see* **Ge, Zhiyu et al.**

Biedermann, S. (*with* Dette, Holger) A note on maximin and Bayesian D-optimal designs in weighted polynomial regression. (English summary) **2005a:62150**

Bozdogan, Hamparsum *see* **Bao, Xinli, (2005i:62003)**

Breyer, Laird Arnault (*with* Piccioni, Mauro; Scarlatti, Sergio) Optimal scaling of MaLa for nonlinear regression. (English summary) **2005b:62141**

Carroll, Raymond J. (*with* Ruppert, David; Crainiceanu, Ciprian M.; Tosteson, Tor D.; Karagas, Margaret R.) Nonlinear and nonparametric regression and instrumental variables. (English summary) **2005h:62173**

— *see also* **Liang, Hua et al., 2005a:62152** *and* **Hu, Zonghui et al., 2005c:62114**

Chakrobartty, Shuvro *see* **Rahman, Mezbahur**

Chang, Xiao-Wen (*with* Qu, Leming) Wavelet estimation of partially linear models. (English summary)

Chen, Gemai *see* **Yang, Zhenlin**

Chen, Hwei-Ming *see* **Yang, Miin-Shen**

Chen, Lin-An *see* **Huang, Jing-Ye et al., 2005a:62151**

Cheng, Chi Lun *see* **Schneeweiss, Hans et al., 2005b:62144**

Chiou, Jeng-Min (*with* Müller, Hans-Georg; Wang, Jane-Ling) Functional response models. (English summary)

Choi, Seung Hoe (*with* Kim, Hae Kyung) The strong consistency of the asymmetric least squares estimators in nonlinear censored regression models. (English summary) **2005b:62142**

Crainiceanu, Ciprian M. *see* **Carroll, Raymond J. et al., 2005h:62173**

Cribari-Neto, Francisco *see* **Ferrari, Silvia L. de Paula**

Dette, Holger *see* **Biedermann, S., 2005a:62150**

Domrachev, V. G. (*with* Poleshchuk, O. M.) On the construction of a regression model for fuzzy initial data. (Russian. Russian summary) **2005g:62112**

Ducharme, Gilles R. *see* **Fontez, Bénédicte, 2005d:62110**

Feddag, Mohand-Larbi (*with* Mesbah, Mounir) Semiparametric approach to the multivariate mixed Rasch model. (English summary) (*see* **2005d:62008**)

Ferrari, Silvia L. de Paula (*with* Cribari-Neto, Francisco) Beta regression for modelling rates and proportions. (English summary)

Fontez, Bénédicte (*with* Ducharme, Gilles R.) Test d'adéquation en régression non-linéaire, cas des fonctions monotones. (English and French summaries) [Goodness-of-fit test for monotonic nonlinear regression models] **2005d:62110**

Ge, Zhiyu (*with* Bickel, Peter J.; Rice, John A.) An approximate likelihood approach to nonlinear mixed effects models via spline approximation. (English summary)

Giordano, Francesco (*with* La Rocca, Michele; Perna, Cira) Bootstrap variables selection in neural network regression models. (English summary) (*see* **2005f:62007**)

González-Barrios, José M. (*with* Ruiz-Velasco, Silvia) Regression analysis and dependence. (English summary)

González-Manteiga, Wenceslao *see* **Aneiros-Pérez, Germán et al., 2005b:62140**

Graham, Bryan S. (*with* Hahn, Jinyong) Identification and estimation of the linear-in-means model of social interactions. (English summary)

Gürcan, Mehmet *see* **Öner, Yüksel et al.**

Hahn, Jinyong (*with* Newey, Whitney K.) Jackknife and analytical bias reduction for nonlinear panel models. (English summary) **2005f:62105**

— *see also* **Graham, Bryan S.**

Halisdemir, Nurhan *see* **Öner, Yüksel et al.**

Hassairi, Abdelhamid (*with* Masmoudi, A.) Extension of the variance function of a steep exponential family. (English summary) **2005j:62136**

He, Chuan Fu (*with* Zhou, Hui Xin; Yu, Xian Qun) L_2-estimators of contaminated data with nonlinear constraints. (Chinese. English and Chinese summaries) **2005h:62174**

Heaton, Chris (*with* Solo, Victor) Identification of causal factor models of stationary time series. (English summary) **2005g:62113**

Hong, Dug Hun (*with* Hwang, Changha) Extended fuzzy regression models using regularization method. (English summary)

Hornišová, Klára Intrinsic linearization of nonlinear regression by principal components method. (English summary)

Horowitz, Joel L. Semiparametric models. (*see* **2005g:62004**)

Hu, Shu He Consistency for the least squares estimator in nonlinear regression model. (English summary) **2005b:62143**

Hu, Zonghui (*with* Wang, Naisyin; Carroll, Raymond J.) Profile-kernel versus backfitting in the partially linear models for longitudinal/clustered data. (English summary) **2005c:62114**

Huang, Jing-Ye (*with* Yang, Eugene K.; Lin, Mei-Ling; Chen, Lin-An) Welsh's trimmed mean for the nonlinear regression model. (English summary) **2005a:62151**

Hwang, Changha *see* **Hong, Dug Hun**

Ivanov, Aleksandr Vladimirovich[1] (*with* Leonenko, N. N.) Asymptotic theory of nonlinear regression with long-range dependence. (English summary) **2005h:62175**

Karagas, Margaret R. *see* **Carroll, Raymond J. et al., 2005h:62173**

Keiding, Niels *see* **Rosthøj, Susanne**

Kim, Hae Kyung *see* **Choi, Seung Hoe, 2005b:62142**

Kim, Tae-Hwan *see* **Lee, Young-Sook et al.**

Konishi, Sadanori *see* **Ando, Tomohiro, (2005a:62014)**

Kubáček, Lubomír (*with* Tesaříková, Eva) Estimation of dispersion in nonlinear regression models with constraints. (English summary)

La Rocca, Michele *see* **Giordano, Francesco et al., (2005f:62007)**

Lee, Young-Sook (*with* Kim, Tae-Hwan; Newbold, Paul) Spurious nonlinear regressions in econometrics. (English summary)

Leonenko, N. N. *see* **Ivanov, Aleksandr Vladimirovich[1], 2005h:62175**

LeSage, James P. A family of geographically weighted regression models. (*see* **2005g:62003**)

Liang, Hua (*with* Wang, Suojin; Robins, James M.; Carroll, Raymond J.) Estimation in partially linear models with missing covariates. (English summary) **2005a:62152**

Lin, Jin Guan (*with* Wei, Bo Cheng) Testing for homogeneity of variance and autocorre-

lation coefficients in nonlinear models of longitudinal data with AR(1) errors. (Chinese. English and Chinese summaries) **2005m:62131**

— (*with* Wei, Bo Cheng) Testing for heteroscedasticity in nonlinear models with ARIMA $(0,1,0)$ errors. (Chinese. English and Chinese summaries) **2005m:62132**

Lin, Mei-Ling *see* **Huang, Jing-Ye et al., 2005a:62151**

Lue, Heng-Hui Principal Hessian directions for regression with measurement error. (English summary)

Masmoudi, A. *see* **Hassairi, Abdelhamid, 2005j:62136**

Mei, Chang Lin (*with* Zhang, Chun-xia) Identification of non-varying coefficients in varying-coefficient models. (English summary)

Melas, V. B. On a functional approach to locally optimal designs. (English summary) (*see* **2005f:62009**)

Mesbah, Mounir *see* **Feddag, Mohand-Larbi, (2005d:62008)**

Molenberghs, Geert (*with* Verbeke, Geert) An introduction to generalized (non)linear mixed models. (*see* **2005f:62006**)

Müller, Hans-Georg *see* **Chiou, Jeng-Min et al.**

Newbold, Paul *see* **Lee, Young-Sook et al.**

Newey, Whitney K. *see* **Hahn, Jinyong, 2005f:62105**

Öner, Yüksel (*with* Gürcan, Mehmet; Halisdemir, Nurhan) On continuous deformation of Richards family. (English summary)

Orlovsky, Igor V. M-estimates in nonlinear regression with weak dependence. (English summary) **2005i:62099**

Paek, Insu *see* **Van den Noortgate, Wim, (2005f:62006)**

Papke, Leslie E. (*with* Wooldridge, Jeffrey M.) A computational trick for delta-method standard errors. (English summary)

Pardo, Leandro (*with* Pardo, María del Carmen) Nonadditivity in loglinear models using φ-divergences and MLEs. (English summary) **2005f:62106**

Pardo, María del Carmen *see* **Pardo, Leandro, 2005f:62106**

Pázman, Andrej (*with* Pronzato, Luc) Simultaneous choice of design and estimator in nonlinear regression with parameterized variance. (English summary) (*see* **2005f:62009**)

Perna, Cira *see* **Giordano, Francesco et al., (2005f:62007)**

Piccioni, Mauro *see* **Breyer, Laird Arnault et al., 2005b:62141**

Poleshchuk, O. M. *see* **Domrachev, V. G., 2005g:62112**

Potocký, Rastislav Approximate confidence regions for parameter subsets in a non-linear model. (English summary) **2005a:62153**

Prakasa Rao, B. L. S. Estimation of cusp in nonregular nonlinear regression models. (English summary) **2005d:62111**

Pronzato, Luc *see* **Pázman, Andrej, (2005f:62009)**

Qu, Leming *see* **Chang, Xiao-Wen**

Rahman, Mezbahur (*with* Chakrobartty, Shuvro) Significance testing in exact logistic multiple regression. (English summary)

Rathouz, Paul J. Fixed effects models for longitudinal binary data with drop-outs missing at random. (English summary)

Rice, John A. *see* **Ge, Zhiyu et al.**

Ridder, Geert (*with* Woutersen, Tiemen M.) The singularity of the information matrix of the mixed proportional hazard model. (English summary) **2005c:62115**

Robins, James M. *see* **Liang, Hua et al., 2005a:62152**

Rödel, Egmar R-estimation of optimal transformations via copulas and ACE. (English summary) **2005a:62154**

Romeu, Andrés (*with* Vera-Hernández, Marcos) Counts with an endogenous binary regressor: a series expansion approach. (English summary)

Ronning, Gerd Randomized response and the binary probit model. (English summary)

Rosthøj, Susanne (*with* Keiding, Niels) Explained variation and predictive accuracy in general parametric statistical models: the role of model misspecification. (English summary)

Ruiz-Velasco, Silvia *see* **González-Barrios, José M.**

Ruppert, David *see* **Carroll, Raymond J. et al., 2005h:62173**

Scarlatti, Sergio *see* **Breyer, Laird Arnault et al., 2005b:62141**

Schennach, Susanne M. Exponential specifications and measurement error. (English summary) **2005g:62114**

— Estimation of nonlinear models with measurement error. (English summary) **2005a:62155**

Schneeweiss, Hans (*with* Cheng, Chi Lun; Wolf, Roland) On the bias of structural estimation methods in a polynomial regression with measurement error when the distribution of the latent covariate is misspecified. (English summary) **2005b:62144**

Solo, Victor *see* **Heaton, Chris, 2005g:62113**

Tesaříková, Eva *see* **Kubáček, Lubomír**

Tosteson, Tor D. *see* **Carroll, Raymond J. et al., 2005h:62173**

Van den Noortgate, Wim (*with* Paek, Insu) Person regression models. (*see* **2005f:62006**)

Vera-Hernández, Marcos *see* **Romeu, Andrés**

Verbeke, Geert *see* **Molenberghs, Geert, (2005f:62006)**

Vieu, Philippe *see* **Aneiros-Pérez, Germán et al., 2005b:62140**

Wang, Jane-Ling *see* **Chiou, Jeng-Min et al.**

Wang, Li Hong[1] Asymptotics of estimates in constrained nonlinear regression with long-range dependent innovations. (English summary) **2005j:62137**

Wang, Naisyin *see* **Hu, Zonghui et al., 2005c:62114**

Wang, Qinghua (*with* Wu, Chengqing; Zhao, Lin Cheng) The asymptotic probability of model selection in the logistic regression model. (English and Chinese summaries) **2005k:62163**

Wang, Suojin *see* **Liang, Hua et al., 2005a:62152**

Wei, Bo Cheng *see* **Lin, Jin Guan, 2005m:62131** *and* **2005m:62132**

Wolf, Roland *see* **Schneeweiss, Hans et al., 2005b:62144**

Wooldridge, Jeffrey M. *see* **Papke, Leslie E.**

Woutersen, Tiemen M. *see* **Ridder, Geert, 2005c:62115**

Wu, Chengqing *see* **Wang, Qinghua et al., 2005k:62163**

Wu, Lang Exact and approximate inferences for nonlinear mixed-effects models with missing covariates. (English summary)

Yang, Eugene K. *see* **Huang, Jing-Ye et al., 2005a:62151**

Yang, Miin-Shen (*with* Chen, Hwei-Ming) Fuzzy class logistic regression analysis. (English summary)

Yang, Yuhong Aggregating regression procedures to improve performance. (English summary) **2005b:62145**

Yang, Zhenlin (*with* Chen, Gemai) Tests of transformation in nonlinear regression. (English summary)

Yu, Shi Hang A mean-square consistency of a regression model with NA sequence error. (Chinese. English and Chinese summaries)

Yu, Xian Qun *see* **He, Chuan Fu et al., 2005h:62174**

Zhang, Chun-xia *see* **Mei, Chang Lin**

Zhao, Lin Cheng *see* **Wang, Qinghua et al., 2005k:62163**

Zhou, Hui Xin *see* **He, Chuan Fu et al., 2005h:62174**

Zhou, Zhi Dan On a model of rational approximation of regression functions. (Chinese. English and Chinese summaries)

Items with secondary classifications in 62J02

Allen, O. Brian *see* **Kane, Mark et al.**

Bae, Suk Joo (*with* Kvam, Paul H.) A nonlinear random-coefficients model for degradation testing. (English summary)

Bai, Zhi-Dong (*with* He, Xuming) A chi-square test for dimensionality with non-Gaussian data. (English summary) **2005b:62126**

Bec, Frédérique (*with* Rahbek, Anders) Vector equilibrium correction models with non-linear discontinuous adjustments. (English summary) **2005k:62197**

Bianco, Ana (*with* Boente, Graciela) Robust estimators in semiparametric partly linear regression models. (English summary) **2005d:62042**

Boente, Graciela *see* **Bianco, Ana, 2005d:62042**

Bogacka, Barbara (*with* Wright, Francis) Non-linear design problem in a chemical kinetic model with non-constant error variance. (English summary)

Boos, Dennis D. *see* **Kim, Hyon-Jung**

Bose, Arup (*with* Sengupta, Debapriya) Strong consistency of minimum contrast estimators with applications. (English summary) **2005a:62068**

Brännäs, Eva *see* **Brännäs, Kurt**

Brännäs, Kurt (*with* Brännäs, Eva) Conditional heteroskedasticity in count data regression: self-feeding activity in fish. (English summary)

Breaz, Nicoleta On the smoothing parameter in case of data from multiple sources. (English summary) **2005f:62072**

Bunea, Florentina (*with* Wegkamp, Marten H.) Two-stage model selection procedures in partially linear regression. (English and French summaries) **2005d:62049**

Chaloner, Kathryn *see* **Han, Cong, 2005h:62197**

Chen, Chih-Rung (*with* Wang, Lih-Chung) Likelihood inference under the general response transformation model with heteroscedastic errors. (English summary) **2005a:62024**

Chen, Gemai *see* **You, Jin Hong, 2005h:62120** *and* **2005k:62114**

Chernozhukov, Victor (*with* Hong, Han) Likelihood estimation and inference in a class of nonregular econometric models. (English summary) **2005g:62055**

Chiu, Grace (*with* Lockhart, Richard; Routledge, Richard) Asymptotic theory for bent-cable regression—the basic case. (English summary) **2005h:62084**

Choi, In *see* **Saikkonen, Pentti, 2005d:62033**

Choi, Sanga (*with* Kim, Hyunsoo; Kim, Seong W.) Propriety of the power prior for the Weibull regression model. (English summary) **2005i:62020**

Čížek, Pavel[2] (Non) linear regression modeling. (*see* **2005g:62004**)

Combescure, C. (*with* Zamia, P.; Daurès, J.-P.) Meta-analyses of diagnostic tests: a review of methods for SROC curves assessment. (English summary)

Daurès, J.-P. *see* **Combescure, C. et al.**

De Boeck, Paul *see* **Explanatory item response models, 2005f:62006** *and* **Wilson, Mark R., (2005f:62006)**

Demidenko, E. Z. ★ Mixed models. **2005e:62002**

Ernst, Chris M. (*with* Ernst, G.; Szczesny, A.) Knee replacement surgery and learning effects—data evidence from a German hospital. (English summary) (*see* **2005b:62008**)

Ernst, G. *see* **Ernst, Chris M. et al., (2005b:62008)**

Fan, Juanjuan *see* **Su, Xiaogang et al.**

Fang, Zhide (*with* Wiens, Douglas P.) Bayesian minimally supported D-optimal designs for an exponential regression model. (English summary) **2005b:62160**

Fitzmaurice, Garrett M. *see* **Huang, Wenzheng**

Ghosh, Himadri (*with* Prajneshu) Non-linear time series modeling of volatile onion price data using AR(p)-arch(q)-in-mean. (English summary)

Glasserman, Paul (*with* Yu, Bin[3]) Simulation for American options: regression now or regression later? (English summary) (*see* **2005b:65002**)

Glidden, David V. *see* **Vittinghoff, Eric et al.**

Han, Cong (*with* Chaloner, Kathryn) A note on optimal designs for two or more treatment groups. (English summary) **2005h:62197**

Hanley, James A. "Transmuting" women into men: Galton's family data on human stature. (English summary)

He, Xuming *see* **Bai, Zhi-Dong, 2005b:62126**

Heathcote, Christopher R. (*with* Higgins, Tim) Regression modelling of mortality surfaces and the deceleration of mortality. (English summary)

Heiberger, Richard M. (*with* Holland, Burt) ★ Statistical analysis and data display. **2005b:62002**

Heyde, Christopher C. *see* **Liu, Shuang Zhe, (2005m:62007)**

Higgins, Tim *see* **Heathcote, Christopher R.**

Holland, Burt *see* **Heiberger, Richard M., 2005b:62002**

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Holt, John D. *see* **Kane, Mark et al.**

Hong, Han *see* **Chernozhukov, Victor, 2005g:62055**

Hornišová, Klára (*with* Pázman, Andrej) Optimum design of nonlinear experiments based on linear Bayesian estimators. (English summary) **2005d:62124**

Hoti, Fabian (*with* Holmström, Lasse) On the estimation error in binned local linear regression. (English summary) **2005c:62060**

Huang, Wenzheng (*with* Fitzmaurice, Garrett M.) Analysis of longitudinal data unbalanced over time. (English summary)

Joutard, C. Large deviations for M-estimators. (English summary) **2005h:62085**

Kalashnikova, M. I. Theoretical-experimental regressions. (English summary)

Kane, Mark (*with* Holt, John D.; Allen, O. Brian) Results concerning the generalized partially linear single-index model. (English summary)
Kharin, Yurīĭ (*with* Zenevich, D. V.) Robustness of statistical forecasting by autoregression model under distortions. (English summary) **2005d:62045**
Khmaladze, Estate V. (*with* Koul, Hira L.) Martingale transforms goodness-of-fit tests in regression models. (English summary) **2005e:62068**
Kim, Hyon-Jung (*with* Boos, Dennis D.) Variance estimation in spatial regression using a non-parametric semivariogram based on residuals. (English summary)
Kim, Hyunsoo *see* **Choi, Sanga et al., 2005i:62020**
Kim, Seong W. *see* **Choi, Sanga et al., 2005i:62020**
Kim, Yongdai *see* **Park, Eunsik, 2005b:62220**
Koop, Gary (*with* Potter, Simon) Forecasting in dynamic factor models using Bayesian model averaging. (English summary)
— (*with* Poirier, Dale J.) Bayesian variants of some classical semiparametric regression techniques. (English summary)
Koul, Hira L. *see* **Khmaladze, Estate V., 2005e:62068**
Kukush, A. G. (*with* Schneeweiss, Hans; Wolf, Roland) Relative efficiency of three estimators in a polynomial regression with measurement errors. (English summary) **2005h:62087**
Kundu, Debasis *see* **Nandi, Swagata^2, 2005h:62090**
Kvam, Paul H. *see* **Bae, Suk Joo**
Lee, Sangyeol (*with* Taniguchi, Masanobu) Asymptotic theory for ARCH-SM models: LAN and residual empirical processes. (English summary) **2005m:62165**
Li, Cai Rong (*with* Wang, Zhi Ping^2) Wavelet estimate of regression functions. (Chinese. English and Chinese summaries)
Liang, Han Ying *see* **Wang, Li, 2005g:62068**
Liese, Friedrich (*with* Vajda, Igor) A general asymptotic theory of M-estimators. I. (English summary) **2005a:62070**
— (*with* Vajda, Igor) A general asymptotic theory of M-estimators. II. (English summary) **2005e:62040**
Lin, Jin Guan (*with* Wei, Bo Cheng) Testing for varying dispersion of longitudinal binomial data in nonlinear logistic models with random effects. (English summary) **2005h:62063**
Lin, Lu^2 (*with* Zhang, Run-Chu) Bootstrap wavelet in the nonparametric regression model with weakly dependent processes. (English summary) **2005b:62094**
Liu, Shuang Zhe (*with* Heyde, Christopher C.) Some efficiency comparisons for estimators from quasi-likelihood and generalized estimating equations. (English summary) (*see* **2005m:62007**)
Liu, Ying An (*with* Wei, Bo Cheng) Confidence regions in terms of statistical curvature for AR(q) nonlinear regression models. (English summary) **2005h:62097**
Lockhart, Richard *see* **Chiu, Grace et al., 2005h:62084**
Lopes, Heitor S. (*with* Weinert, Wagner R.) EGIPSYS: an enhanced gene expression programming approach for symbolic regression problems. (English summary)
McCulloch, Charles E. *see* **Vittinghoff, Eric et al.**
Mira, Antonietta (*with* Tenconi, Paolo) Bayesian estimate of default probabilities via MCMC with delayed rejection. (English summary) (*see* **2005f:60008**)
Molina, Isabel *see* **Santamaría, Laureano et al.**
Morales, Domingo *see* **Santamaría, Laureano et al.**
Nandi, Swagata^2 (*with* Kundu, Debasis) Asymptotic properties of the least squares estimators of the parameters of the chirp signals. (English summary) **2005h:62090**
Nasrabadi, Ebrahim *see* **Nasrabadi, Mohammad Mehdi^2 et al.**
Nasrabadi, Mohammad Mehdi^2 (*with* Nasrabadi, Ebrahim; Nasrabady, Ali Reza) Fuzzy linear regression analysis: a multi-objective programming approach. (English summary)
Nasrabady, Ali Reza *see* **Nasrabadi, Mohammad Mehdi^2 et al.**
Oakley, Jeremy E. (*with* O'Hagan, Anthony) Probabilistic sensitivity analysis of complex models: a Bayesian approach. (English summary)
O'Hagan, Anthony *see* **Oakley, Jeremy E.**
Olive, David J. Visualizing 1D regression. (English summary) (*see* **2005c:62006**)
Park, Eunsik (*with* Kim, Yongdai) Analysis of longitudinal data in case-control studies. (English summary) **2005b:62220**
Pastukhova, Yu. I. Asymptotically efficient estimation of smooth functionals from the regression function for a known distribution of observation noise. (Russian. Russian summary) **2005h:62119**
Pázman, Andrej *see* **Horniš̆ová, Klára, 2005d:62124**
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Prajneshu *see* **Ghosh, Himadri**
Pu, Yan Quantile regression analysis in structure-activity relationship of environment science. (Chinese. English and Chinese summaries) **2005m:62196**
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Rahbek, Anders *see* **Bec, Frédérique, 2005k:62197**
Routledge, Richard *see* **Chiu, Grace et al., 2005h:62084**
Saikkonen, Pentti (*with* Choi, In) Cointegrating smooth transition regressions. (English summary) **2005d:62033**
Santamaría, Laureano (*with* Morales, Domingo; Molina, Isabel) A comparative study of small area estimators. (English summary)
Sarychev, A. P. Identification of systems of regression models with random coefficients. (Russian. English, Russian and Ukrainian summaries) **2005i:93088**
Schneeweiss, Hans *see* **Kukush, A. G. et al., 2005h:62087**
Sengupta, Debapriya *see* **Bose, Arup, 2005a:62068**
Shiboski, Stephen C. *see* **Vittinghoff, Eric et al.**
Su, Xiaogang (*with* Wang, Morgan; Fan, Juanjuan) Maximum likelihood regression trees. (English summary)
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Szczesny, A. *see* **Ernst, Chris M. et al., (2005b:62008)**
Taniguchi, Masanobu *see* **Lee, Sangyeol, 2005m:62165**
Tenconi, Paolo *see* **Mira, Antonietta, (2005f:60008)**
Timofeeva, G. A. Nonlinear confidence estimates for statistically uncertain systems. (Russian. Russian summary) **2005e:93095**
Vajda, Igor *see* **Liese, Friedrich, 2005a:62070** *and* **2005e:62040**
Vittinghoff, Eric (*with* Glidden, David V.; Shiboski, Stephen C.; McCulloch, Charles E.) ★ Regression methods in biostatistics.
Wang, Li (*with* Liang, Han Ying) Strong uniform convergence of the recursive regression estimator under φ-mixing conditions. (English summary) **2005g:62068**
Wang, Lih-Chung *see* **Chen, Chih-Rung, 2005a:62024**
Wang, Morgan *see* **Su, Xiaogang et al.**
Wang, Zhi Ping^2 *see* **Li, Cai Rong**
Wegkamp, Marten H. *see* **Bunea, Florentina, 2005d:62049**
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Weisberg, Sanford ★ Applied linear regression. **2005h:62005**
Wiens, Douglas P. *see* **Fang, Zhide, 2005b:62160**
Wilson, Mark R. (*with* De Boeck, Paul) Descriptive and explanatory item response models. (*see* **2005f:62006**)
— *see also* **Explanatory item response models, 2005f:62006**
Winkelmann, Rainer ★ Econometric analysis of count data.
Wolf, Roland *see* **Kukush, A. G. et al., 2005h:62087**
Wood, Simon N. Stable and efficient multiple smoothing parameter estimation for generalized additive models. (English summary)
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Yang, Ying^1 Asymptotics of M-estimation in non-linear regression. (English summary) **2005h:62083**
You, Jin Hong (*with* Chen, Gemai) Block external bootstrap in partially linear models with nonstationary strong mixing error terms. (English and French summaries) **2005k:62114**
— (*with* Chen, Gemai) B-spline estimation for partially linear regression models with heteroscedasticity. (Chinese. English and Chinese summaries) **2005h:62120**
— *see also* **Zhou, Xian, 2005d:62096**
Yu, Bin^3 *see* **Glasserman, Paul, (2005b:65002)**
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Zhang, Run-Chu *see* **Lin, Lu^2, 2005b:62094**
Zhou, Xian (*with* You, Jin Hong) Wavelet estimation in varying-coefficient partially linear regression models. (English summary) **2005d:62096**

Items listed otherwise than by author

Explanatory item response models ★ Explanatory item response models. **2005f:62006**

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Afonso, F. (*with* Billard, Lynne; Diday, Edwin) Symbolic linear regression with taxonomies. (English summary) (*see* **2005i:62003**)
Allende Alonso, Sira M. (*with* Bouza Herrera, Carlos N.; Bouza Allende, Gemayqzel) Using simulated annealing to choose the best regression model: the L_2 case. (Spanish. English and Spanish summaries)
Amemiya, Yasuo *see* **Wall, Melanie M.**
Babak, O. V. (*with* Gasanov, A. S.; Leĭbovich, M. M.; Stetsyuk, P. I.) On an approach to the application of the least moduli method in the construction of linear models. (Russian. English and Ukrainian summaries) **2005m:62133**
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Baryamureeba, Venansius The impact of equal weighting of low- and high-confidence observations on robust linear regression computations. (English summary) **2005a:62156**
Basaran, Alper (*with* Gunay, Suleyman) Detection of influential case in fuzzy regression. (*see* **2005i:62007**)
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Billard, Lynne *see* **Afonso, F. et al., (2005i:62003)**
Bouza Allende, Gemayqzel *see* **Allende Alonso, Sira M. et al.**
Bouza Herrera, Carlos N. *see* **Allende Alonso, Sira M. et al.**
Breaz, Daniel *see* **Breaz, Nicoleta, 2005j:62138**
Breaz, Nicoleta On the least squares fitting in a linear model. (English summary) **2005c:62116**
— (*with* Breaz, Daniel) Fitting of some linearisable regression models. (English summary) **2005j:62138**
Casella, George *see* **Moreno Bas, Elías et al., 2005k:62169**
Cavanaugh, Joseph E. Criteria for linear model selection based on Kullback's symmetric divergence. (English summary)
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Chaturvedi, Anoop (*with* Shalabh) Risk and Pitman closeness properties of feasible generalized double k-class estimators in linear regression models with non-spherical disturbances under balanced loss function. (English summary)
Chen, Lin-An *see* **Lai, Yi-Hsuan et al., 2005d:62112**
Cheng, Chi Lun (*with* Tsai, Chih-Ling) The invariance of some score tests in the linear model with classical measurement error. (English summary)
Cheng, Zheng Dong A class of estimates of the G-M linear model. (Chinese. English and Chinese summaries) **2005f:62109**
Chiann, Chang (*with* Morettin, Pedro A.) Time-domain estimation of time-varying linear systems. (English summary) **2005j:62139**

Čížek, Pavel[2] (Non) linear regression modeling. (*see* **2005g:62004**)
Cohen, Guy (*with* Lin, Michael; Tempelman, Arkady) Consistency of the LSE in linear regression with stationary noise. (English summary) **2005i:62100**
Coull, Brent A. *see* **Houseman, E. Andrés et al., 2005b:62147**
Cribari-Neto, Francisco *see* **Ferrari, Silvia L. de Paula et al.**
Cysneiros, Audrey H. M. A. *see* **Ferrari, Silvia L. de Paula et al.**
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Diday, Edwin *see* **Afonso, F. et al., (2005i:62003)**
Diop, Aliou (*with* Guégan, Dominique) Asymptotic behavior for the extreme values of a linear regression model. (English summary) **2005g:62115**
Dufour, Jean-Marie (*with* Khalaf, Lynda; Bernard, Jean-Thomas; Genest, Ian) Simulation-based finite-sample tests for heteroskedasticity and ARCH effects. (English summary)
Durairajan, T. M. *see* **William, Martin L., 2005a:62162**
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Faraway, Julian *see* **Shen, Qing**[2]
Feng, Yu Ying (*with* Zhao, Sheng Li) Totally maximum likelihood estimate and method of fractional steps for maximum likelihood estimation. (Chinese. English and Chinese summaries) **2005j:62140**
Ferrari, Silvia L. de Paula (*with* Cysneiros, Audrey H. M. A.; Cribari-Neto, Francisco) An improved test for heteroskedasticity using adjusted modified profile likelihood inference. (English summary)
— (*with* Cysneiros, Audrey H. M. A.; Cribari-Neto, Francisco) Corrigendum to: "An improved test for heteroskedasticity using adjusted modified profile likelihood inference" [J. Statist. Plann. Inference **124** (2004), no. 2, 423–437; MR2081495].
Fišerová, Eva Estimation in universal models with restrictions. (English summary) **2005k:62164**
Fiteni, Inmaculada τ-estimators of regression models with structural change of unknown location. (English summary) **2005a:62158**
Florax, Raymond J. G. M. (*with* de Graaff, Thomas) The performance of diagnostic tests for spatial dependence in linear regression models: a meta-analysis of simulation studies. (*see* **2005g:62003**)
Forchini, Giovanni Optimal weighted average power similar tests for the covariance structure in the linear regression model. (English summary) **2005i:62101**
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Gadzhiev, A. G. Linear regression models with an increasing number of unknown parameters. (Russian) **2005k:62165**
Galpin, Jacky S. *see* **Zewotir, Temesgen**
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de Graaff, Thomas *see* **Florax, Raymond J. G. M., (2005g:62003)**
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Groß, Jürgen (*with* Markiewicz, Augustyn) Characterizations of admissible linear estimators in the linear model. (English summary) **2005e:62099**
— The general Gauss-Markov model with possibly singular dispersion matrix. (English summary) **2005f:62110**
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Hawkins, Douglas M. *see* **Olive, David J.**
He, Wenqing (*with* Lawless, Jerald F.) Bivariate location-scale models for regression analysis, with applications to lifetime data. (English summary)
Hojati, Mehran (*with* Bector, C. R.; Smimou, Kamal) A simple method for computation of fuzzy linear regression. (English summary)
Houseman, E. Andrés (*with* Ryan, Louise M.; Coull, Brent A.) Cholesky residuals for assessing normal errors in a linear model with correlated outcomes. (English summary) **2005b:62147**
Hristea, Florentina On the use of MAICE for the detection of outliers in a linear regression model. (English summary) **2005c:62117**
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Imon, A. H. M. Rahmatullah (*with* Khan, Md. A. I.) A comparative study on the identification of high leverage points in linear regression. (English summary)
Ivanov, Aleksandr Vladimirovich[1] (*with* Zwanzig, Silvelyn) A saddlepoint approximation for the residual sum of squares in heteroscedastic linear regression. (English summary) **2005g:62117**
Jammalamadaka, Sreenivasa Rao *see* **Sengupta, Debasis, 2005a:62161**
Janssen, Rianne (*with* Schepers, Jan; Peres, Deborah) Models with item and item group predictors. (*see* **2005f:62006**)
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de Jongh, P. J. (*with* de Wet, T.; van Deventer, P. J. U.) Saddlepoint approximations for the distribution of regression quantiles. (English summary)
Kalashnikova, M. I. Theoretical-experimental regressions. (English summary)
Khalaf, Lynda *see* **Dufour, Jean-Marie et al.**
Khan, Md. A. I. *see* **Imon, A. H. M. Rahmatullah**
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Koenker, Roger Quantile regression for longitudinal data. (English summary) **2005g:62118**
— (*with* Ng, Pin) A Frisch-Newton algorithm for sparse quantile regression. (English summary)
Krämer, Walter Finite sample power of Cliff-Ord-type tests for spatial disturbance correlation in linear regression. (English summary) **2005k:62166**
Kukush, A. G. (*with* Martsinyuk, Yuliya V.) Consistency and inconsistency of the weighted least squares estimator in linear functional error-in-variables models. (English summary) **2005a:62159**
Kunderová, Pavla Eliminating transformations for nuisance parameters in linear model. (English summary) **2005b:62148**
Kwon, Taehee (*with* Ko, Hanseok) GPD-based state modification by weighted linear loss function. (English summary) (*see* **2005g:65007**)
Lai, Yi Fen (*with* Liang, Fei Bao) Linear regression models based on canonical correlation. (Chinese. English and Chinese summaries)
Lai, Yi-Hsuan (*with* Thompson, Peter; Chen, Lin-An) Generalized and pseudo-generalized trimmed means for the linear regression with AR(1) error model. (English summary) **2005d:62112**
Lawless, Jerald F. *see* **He, Wenqing**
Lee, Sangyeol (*with* Tokutsu, Yasuyoshi; Maekawa, Koichi) The cusum test for parameter change in regression models with ARCH errors. (English summary) **2005h:62177**
Leĭbovich, M. M. *see* **Babak, O. V. et al., 2005m:62133**
Li, Heng[1] (*with* Zaslavsky, Alan M.) The fundamental theorem of least squares: its relevance to experimental design and Bayesian inference. (English summary) (*see* **2005i:62004**)
Li, Shu-you (*with* Zhang, Bao Xue) Robustness of minimum norm quadratic unbiased estimator of variance for the general linear model. (English and Chinese summaries) **2005b:62149**
Li, Si Hua (*with* Zheng, Ming[2]) Empirical likelihood for linear regression analysis with censored data. (Chinese. English and Chinese summaries) **2005d:62113**
— *see also* **Zheng, Ming**[2], **2005h:62179**
Liang, Fei Bao *see* **Lai, Yi Fen**
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Lisitsin, D. V. Criteria for the choice of structure of a multiclique regression model. (Russian. Russian summary) **2005m:62135**
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Liu, Chuanhai Robit regression: a simple robust alternative to logistic and probit regression. (*see* **2005m:62005**)
Liu, Xiu Hong (*with* Zhou, Jie[2]; Wu, Yao Guo) An equivalent characterization of the best linear unbiased estimation for a singular linear model. (Chinese. English and Chinese summaries) **2005k:62167**
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Magnus, Jan R. (*with* Sinha, Ashoke K.) On Theil's errors. (English summary)
Marazzi, Alfio (*with* Yohai, Víctor J.) Robust Box-Cox transformations for simple regression. (English summary) **2005g:62119**
— (*with* Yohai, Víctor J.) Adaptively truncated maximum likelihood regression with asymmetric errors. (English summary) **2005d:62114**
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— Estimation in connecting measurements with constraints of type II. (English summary) **2005i:62103**
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— On reparameterization of random effects in linear mixed models. (English summary) **2005m:62136**
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Nasrabadi, Mohammad Mehdi[2] (*with* Nasrabadi, Ebrahim) A mathematical-programming approach to fuzzy linear regression analysis. (English summary)
— *see also* **Modarres, Mohammad et al., 2005i:62104**
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Ng, Pin *see* **Koenker, Roger**
Ohtani, Kazuhiro (*with* Tanizaki, Hisashi) Exact distributions of R^2 and adjusted R^2 in a linear regression model with multivariate t error terms. (English summary)
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— (*with* Lu, Chang Yu) A study of the equivalence of the MINQUEs between a partitioned singular linear model and its reduced singular linear models. (English and Chinese summaries) **2005k:62172**
— *see also* **Li, Shu-you, 2005b:62149**
Zhang, Weirong *see* **Shi, Kui Ran et al., 2005g:62121**
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— (*with* Zamar, Ruben H.) Bias robustness of three median-based regression estimates. (English summary) **2005e:62045**
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Bagdonavičius, Vilijandas B. (*with* Zdorova-Cheminade, Olga; Nikulin, Mikhail S.) Statistical planning and inference in accelerated life testing using the CHSS model. (English summary)
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Cameron, A. Colin (*with* Li, Tong[2]; Trivedi, Pravin K.; Zimmer, David M.) Modelling the differences in counted outcomes using bivariate copula models with application to mismeasured counts. (English summary)
— *see also* **Errata: "Modelling the differences in counted outcomes using bivariate copula models with application to mismeasured counts"**
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Davies, P. Laurie (*with* Gather, Ursula) Robust statistics. (*see* **2005g:62004**)
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Fabrizi, Enrico Hierarchical Bayesian models for the estimation of unemployment rates in small domains of the Italian labour force survey. (English and Italian summaries)
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Fitzmaurice, Garrett M. (*with* Laird, Nan M.; Ware, James H.) ★ Applied longitudinal analysis. **2005a:62002**
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Fujikoshi, Yasunori *see* **Tonda, Tetsuji, 2005a:62048**
Galea Rojas, Manuel (*with* Leiva-Sánchez, Víctor; Paula, Gilberto A.) Influence diagnostics in log-Birnbaum-Saunders regression models. (English summary)
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He, Chuan Fu Expression of solution of regression problems that have inequality constraints in singular conditions. (Chinese. English and Chinese summaries) **2005f:62052**
He, Shu Yuan (*with* Wong, Heung) Central limit theorem of linear regression model under right censorship. (English summary) **2005d:62056**
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Ibarrola Muñoz, María del Pilar (*with* Pérez-Palomares, A.) Linear completeness in a continuous time Gauss-Markov model. (English summary) **2005h:62227**
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Jajo, Nethal K. A review of robust regression and diagnostic procedures in linear regression. (English summary)
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Karlsson, Maria Finite sample properties of the QME. (English summary)
Kim, Byung Soo[1] *see* **Kim, Inyoung et al.**
Kim, Hyon-Jung (*with* Boos, Dennis D.) Variance estimation in spatial regression using a non-parametric semivariogram based on residuals. (English summary)
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Lee, Myoung-Jae Efficiency gains of system GMM and MDE over individual equation estimation. (English summary) **2005i:62050**
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Leonenko, N. N. (*with* Taufer, E.) On the rate of convergence to the normal law of LSE in regression with long range dependence. (English and Italian summaries) **2005k:60097**
LeSage, James P. A family of geographically weighted regression models. (*see* **2005g:62003**)
Li, Tong[2] *see* **Errata: "Modelling the differences in counted outcomes using bivariate copula models with application to mismeasured counts"** *and* **Cameron, A. Colin et al.**
Li, Yi[8] Linear regression and linear mixed models with contaminated covariates. (English summary)
Liu, Jixue (*with* Chen, Xiru) Consistency of LS estimator in simple linear EV regression models. (English summary) **2005j:62063**
Liu, Qi (*with* Feng, Jing; Zhou, Jing Lun; Zhang, Jin Huai) The dynamic reliability growth evaluation for complex system based on Duane-LR model. (Chinese. English and Chinese summaries) **2005i:62056**
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Moon, Hyungsik Roger (*with* Perron, Benoit) Efficient estimation of the seemingly unrelated regression cointegration model and testing for purchasing power parity. (English summary)
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Park, Dong Joon (*with* Burdick, Richard K.) Confidence intervals on total variance in a regression model with an unbalanced onefold nested error structure. (English summary)
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Pyt'ev, Yu. P. ★ Методы математического моделирования измерительно-вычислительных систем. (Russian. Russian summary) [Methods for the mathematical modeling of measuring-computing systems] **2005i:62002**
Qin, Huaizhen (*with* Wan, Alan T. K.) On the properties of the t- and F-ratios in linear regressions with nonnormal errors. (English summary) **2005c:62028**
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Shi, Jian Hong[2] (*with* Wang, Song Gui) Nonnegative estimation of variance components in a linear mixed model. (Chinese. English and Chinese summaries) **2005g:62130**
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Shukur, Ghazi *see* **Holgersson, H. E. T.**
Sievers, Gerald L. (*with* Abebe, Asheber) Rank estimation of regression coefficients using iterated reweighted least squares. (English summary)
Singh, R. Karan (*with* Rastogi, N.) A generalized estimator in econometric methods. (English summary)
Song, Wei Xing Bahadur efficiency of parameter estimators in non-common support regression models. (Chinese. English and Chinese summaries) **2005c:62045**
Sõstra, Kaja Comparison of small area estimation methods: simulation study in EU-RAREA project. (English summary)
Spurrier, John D. *see* **Bhargava, Parul**
Steinebach, Josef *see* **Horváth, Lajos et al., 2005g:62139**
Struyf, Anja *see* **Rousseeuw, Peter J., 2005g:62094**
Sweet, Erik W. Orthogonal polynomial data fitting and finding orthogonal contrast coefficients. (English summary)
Taamouti, Mohamed *see* **Dufour, Jean-Marie, 2005m:62064**
Tan, Frans E. S. *see* **Berger, Martijn P. F.**
Taufer, E. *see* **Leonenko, N. N., 2005k:60097**
Tiku, Moti L. *see* **Islam, M. Qamarul, 2005k:62064**
Tinsley, Frederick C. *see* **Janke, Steven J.**
Tonda, Tetsuji (*with* Fujikoshi, Yasunori) Asymptotic expansion of the null distribution of LR statistic for multivariate linear hypothesis when the dimension is large. (English summary) **2005a:62048**
Trivedi, Pravin K. *see* **Errata: "Modelling the differences in counted outcomes using bivariate copula models with application to mismeasured counts"** *and* **Cameron, A. Colin et al.**
Tsai, Yu-Ling (*with* Zhou, Julie) Discrete M-robust designs for regression models. (English summary)
Ursianu, Emiliana Testing hypotheses about several correlated proportions. (English summary) **2005b:62104**
Valdés, Teófilo *see* **Rivero, Carlos, 2005h:62080**
Vittinghoff, Eric (*with* Glidden, David V.; Shiboski, Stephen C.; McCulloch, Charles E.) ★ Regression methods in biostatistics.
Wan, Alan T. K. *see* **Qin, Huaizhen, 2005c:62028**
Wang, Jane-Ling *see* **Chiou, Jeng-Min et al.**
Wang, Song Gui *see* **Yin, Su-Ju, 2005e:62037; 2005m:62059** *and* **Shi, Jian Hong[2], 2005g:62130**
Wang, Zhi Zhong[2] (*with* Hu, Xue Mei) General admissibility for linear estimators of multivariate regression coefficients with respect to a restricted parameter set. (English and Chinese summaries)
Ware, James H. *see* **Fitzmaurice, Garrett M. et al., 2005a:62002**
Wei, Lai Sheng *see* **Zhang, Wei Ping[4] et al., 2005k:62021**
Weisberg, Sanford ★ Applied linear regression. **2005h:62005**
Wiens, Douglas P. Robust allocation schemes for clinical trials with prognostic factors. (English summary) **2005f:62118**
— *see also* **Fang, Zhide, 2005c:62130**
Winkelmann, Rainer ★ Econometric analysis of count data.
Wong, Heung *see* **He, Shu Yuan, 2005d:62056**
Woodall, William H. *see* **Mahmoud, Mahmoud A.**
Yang, Hu (*with* Yang, Ting) Outlier mining based on principal component estimation. (English summary) **2005k:62178**
Yang, Ting *see* **Yang, Hu, 2005k:62178**
Yang, Yaning *see* **Zhang, Wei Ping[4] et al., 2005k:62021**
Yaqub, M. *see* **Athar, Haseeb et al., 2005k:62027**
Yasins'kiĭ, V. K. (*with* Antonyuk, S. V.) On the properties of the second moment of solutions of stochastic functional-differential equations with variable coefficients. (Ukrainian. Ukrainian summary) **2005i:60057**
Yin, Su-Ju (*with* Wang, Song Gui) Two-stage estimate of the circle parameters. (English and Chinese summaries) **2005m:62059**
— (*with* Wang, Song Gui) Estimating the parameters of a circle by heteroscedastic regression models. (English summary) **2005e:62037**
Yohai, Victor J. *see* **Adrover, J. G. et al., 2005d:62041**
Young, Virginia R. *see* **Luo, Yu et al.**
Yue, Wei *see* **Zhu, Jun[5]**
Zamar, Ruben H. *see* **Adrover, J. G., 2005e:62045**
Zdorova-Cheminade, Olga *see* **Bagdonavičius, Vilijandas B. et al.**
Zhang, Jin Huai *see* **Liu, Qi et al., 2005i:62056**
Zhang, Wei Ping[4] (*with* Wei, Lai Sheng; Yang, Yaning) The superiority of empirical Bayes estimator of parameters in linear model. (English summary) **2005k:62021**
Zhou, Jing Lun *see* **Liu, Qi et al., 2005i:62056**
Zhou, Julie *see* **Tsai, Yu-Ling**
Zhu, Jun[5] (*with* Yue, Wei) A multiresolution tree-structured spatial linear model. (English summary)
Zhu, Li-Xing *see* **He, Xuming, 2005d:62075**
Zimmer, David M. *see* **Errata: "Modelling the differences in counted outcomes using bivariate copula models with application to mismeasured counts"** *and* **Cameron, A. Colin et al.**

Items listed otherwise than by author

Errata:
"Modelling the differences in counted outcomes using bivariate copula models with application to mismeasured counts" Corrigendum: "Modelling the differences in counted outcomes using bivariate copula models with application to mismeasured counts" [Econom. J. 7 (2004), no. 2, 566–584; MR2103793] by A. C. Cameron, T. Li, P. K. Trivedi and D. M. Zimmer.

62J07 Ridge regression; shrinkage estimators

Akdeniz, Fikri (*with* Yüksel, Güzin; Wan, Alan T. K.) The moments of the operational almost unbiased ridge regression estimator. (English summary) **2005e:62101**
— (*with* Öztürk, Fikri) The distribution of stochastic shrinkage biasing parameters of the Liu type estimator. (English summary) **2005j:62144**
BuHamra, Sana S. Application of preliminary test and shrinkage estimation in change point analysis. (English summary)
Costa, Àlex (*with* Satorra, Albert; Ventura, Eva) Improving both domain and total area estimation by composition. (English and Catalan summaries) **2005b:62151**
Dubey, Vyas (*with* Suryakant) A shrinkage type estimator of population variance using auxiliary information. (English summary)
Efron, Bradley (*with* Hastie, Trevor; Johnstone, Iain M.; Tibshirani, Robert) Least angle regression. (English summary) **2005d:62116**
Fu, Wenjiang J. Nonlinear GCV and quasi-GCV for shrinkage models. (English summary)
Hastie, Trevor *see* **Efron, Bradley et al., 2005d:62116**
Hong, Dug Hun (*with* Hwang, Changha) Ridge regression procedures for fuzzy models using triangular fuzzy numbers. (English summary)
Hwang, Changha *see* **Hong, Dug Hun**
Johnstone, Iain M. *see* **Efron, Bradley et al., 2005d:62116**
Kibria, B. M. Golam Conflict among the shrinkage estimators induced by W, LR and LM tests under a student's t regression model. (English summary)
— Performance of the shrinkage preliminary test ridge regression estimators based on the conflicting of W, LR and LM tests. (English summary) **2005c:62118**
— On some ridge regression estimators under possible stochastic constraints. (English summary) **2005c:o2119**
— *see also* **Tabatabaey, S. M. M. et al., 2005j:62146**
Kubokawa, Tatsuya (*with* Srivastava, Muni S.) Improved empirical Bayes ridge regression estimators under multicollinearity. (English summary) **2005f:62112**
Liu, Kejian More on Liu-type estimator in linear regression. (English summary)
Öztürk, Fikri *see* **Akdeniz, Fikri, 2005j:62144**
Ruíz Espejo, Mariano *see* **Singh, Housila Prasad et al.**
Saleh, A. K. Md. Ehsanes *see* **Tabatabaey, S. M. M. et al., 2005j:62146**
Satorra, Albert *see* **Costa, Àlex et al., 2005b:62151**
Saxena, Sharad *see* **Singh, Housila Prasad et al.**
Serdobolskii, V. I. Matrix shrinkage of high-dimensional expectation vectors. (English summary) **2005j:62145**
Shukla, Sushil Kumar *see* **Singh, Housila Prasad et al.**
Singh, Housila Prasad (*with* Shukla, Sushil Kumar; Saxena, Sharad) Families of shrinkage estimators of k-th power of scale parameter in two-parameter exponential distribution. (English summary)
— (*with* Saxena, Sharad; Ruíz Espejo, Mariano) Estimation of standard deviation in normal parent by shrinkage towards an interval. (English summary)
Spitzner, Dan J. Risk-reducing shrinkage estimation for generalized linear models. (English summary)
Srivastava, Muni S. *see* **Kubokawa, Tatsuya, 2005f:62112**
Suryakant *see* **Dubey, Vyas**
Tabatabaey, S. M. M. (*with* Saleh, A. K. Md. Ehsanes; Kibria, B. M. Golam) Estimation strategies for parameters of the linear regression models with spherically symmetric distributions. (English summary) **2005j:62146**
Tibshirani, Robert *see* **Efron, Bradley et al., 2005d:62116**
Ventura, Eva *see* **Costa, Àlex et al., 2005b:62151**
Wan, Alan T. K. *see* **Akdeniz, Fikri et al., 2005e:62101**
Wang, Ming Jin A generalization of a method for obtaining K in ridge regression (Chinese. English and Chinese summaries)
Yang, Hu (*with* Zhu, Li-Xing) Adaptive unified biased estimators of parameters in linear model. (English summary) **2005c:62120**
— *see also* **Yang, Ting, 2005d:62117**
Yang, Ting (*with* Yang, Hu) Ellipsoidal restriction and generalized ridge estimation. (Chinese. English and Chinese summaries) **2005d:62117**
Yüksel, Güzin *see* **Akdeniz, Fikri et al., 2005e:62101**
Zhu, Li-Xing *see* **Yang, Hu, 2005c:62120**

Items with secondary classifications in 62J07

Eldar, Yonina C. Minimum variance in biased estimation: bounds and asymptotically optimal estimators. (English summary) **2005g:94016**
Kauermann, Göran A note on smoothing parameter selection for penalized spline smoothing. (English summary)
Knight, Keith *see* **Tibshirani, Robert et al.**
Koenker, Roger Quantile regression for longitudinal data. (English summary) **2005g:62118**
Oono, Youhei (*with* Shinozaki, Nobuo) Estimation of error variance in the analysis of experiments using two-level orthogonal arrays. (English summary) **2005a:62166**
Pyt'ev, Yu. P. ★ Методы математического моделирования измерительно-вычислительных систем. (Russian. Russian summary) [Methods for the mathematical modeling of measuring-computing systems] **2005i:62002**
Rosset, Saharon *see* **Tibshirani, Robert et al.**
Saunders, Michael A. *see* **Tibshirani, Robert et al.**
Shinozaki, Nobuo *see* **Oono, Youhei, 2005a:62166**
Shirke, D. T. Shrinkage estimators for the scale parameter. (English summary)
Tibshirani, Robert (*with* Saunders, Michael A.; Rosset, Saharon; Zhu, Ji; Knight, Keith) Sparsity and smoothness via the fused lasso. (English summary)
Zhu, Ji *see* **Tibshirani, Robert et al.**

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Achermann, Erwin *see* **Chinellato, Oscar et al.**
Akritas, Michael G. (*with* Papadatos, N.) Heteroscedastic one-way ANOVA and lack-of-fit tests. (English summary) **2005a:62163**
— *see also* **Tsangari, Haritini, 2005e:62104**
Al-Mouel, Abdul-Hussein Saber (*with* Wang, Jing Long) One-way multivariate repeated measurements analysis of variance model. (English summary) **2005h:62180**
Arbogast, Patrick G. (*with* Bedrick, Edward J.) Model-checking techniques for linear models with parametric variance functions. (English summary)

Arcos Cebrián, Antonio (*with* Rueda García, Maria del Mar; Martínez-Miranda, M. D.; González Aguilera, Silvia; Román, Y.) Incorporating the auxiliary information available in variance estimation. (English summary)
Bathke, Arne The ANOVA F test can still be used in some balanced designs with unequal variances and nonnormal data. (English summary) **2005c:62121**
Beck, Jan B. (*with* Kreinovich, Vladik; Wu, Berlin) Interval-valued and fuzzy-valued random variables: from computing sample variances to computing sample covariances. **2005j:62147**
Bedrick, Edward J. *see* **Arbogast, Patrick G.**
Berger, Yves G. Variance estimation for measures of change in probability sampling. (English and French summaries) **2005i:62106**
Birkes, D. *see* **Wulff, Shaun S., 2005m:62138**
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Bröker, Oliver *see* **Chinellato, Oscar et al.**
Butler, Ronald W. (*with* Wood, Andrew T. A.) A dimensional CLT for non-central Wilks' lambda in multivariate analysis. (English summary) **2005h:62181**
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Chandra, Prem^2 (*with* Singh, Housila Prasad) Modified estimators for population variance that utilizes the kurtosis of an auxiliary variable in sample surveys. (English summary)
— *see also* **Singh, Housila Prasad et al.**
Chen, Gui Jing *see* **Wang, Haixian et al., 2005b:62155**
Chinellato, Oscar (*with* Achermann, Erwin; Bröker, Oliver) Including covariances in calibration to obtain better measurement uncertainty estimates. (English summary)
Chiuso, Alessandro (*with* Picci, Giorgio) The asymptotic variance of subspace estimates. (English summary) **2005h:62182**
Chouanière, Dominique *see* **Grzebyk, Michel et al., 2005e:62102**
Christensen, William F. (*with* Gunst, Richard F.) Estimating pollution source contributions from temporally correlated air quality observations. (English summary)
Clarke, Brenton R. (*with* Monaco, Antony G.) Some inferential questions in regard to analysing two-way layouts and associated linear model theory and practice. (English summary)
Consonni, Guido (*with* Veronese, Piero; Gutiérrez-Peña, Eduardo) Reference priors for exponential families with simple quadratic variance function. (English summary) **2005d:62118**
Cook, R. Dennis *see* **Yin, Xiangrong, 2005e:62105**
Cruz-Orive, Luis M. *see* **García-Fiñana, Marta, 2005d:62119**
Cuevas, Antonio (*with* Febrero-Bande, Manuel; Fraiman, Ricardo) An anova test for functional data. (English summary)
Dedecker, Jérôme Inégalités de covariance. (English and French summaries) [Covariance inequalities] **2005g:62124**
Diana, Giancarlo (*with* Tommasi, Chiara) Estimation for finite population variance in double sampling. (English summary)
Dorfman, Alan H. *see* **Wang, Suojin et al.**
Dupuy, Jean-François (*with* Mesbah, Mounir) Estimation of the asymptotic variance of semiparametric maximum likelihood estimators in the Cox model with a missing time-dependent covariate. (English summary) **2005b:62152**
Ehm, Werner (*with* Genton, Marc G.; Gneiting, Tilmann) Errata: "Stationary covariances associated with exponentially convex functions" [Bernoulli **9** (2003), no. 4, 607–615; MR1996272 (2004c:62151)]. **2005a:62164**
Ekström, Magnus (*with* Sjöstedt-de Luna, Sara) Subsampling methods to estimate the variance of sample means based on nonstationary spatial data with varying expected values. (English summary) **2005a:62165**
Elamir, Elsayed A. H. (*with* Seheult, Allan H.) Exact variance structure of sample L-moments. (English summary)
Ernst, Lawrence R. *see* **Wang, Suojin et al.**
Esquivel Bocanegra, Fernando (*with* Méndez Ramírez, Ignacio; Ramírez Valverde, Gustavo) Some alternatives for estimating the covariance matrix of an estimator in a linear regression model. (Spanish. English and Spanish summaries)
Febrero-Bande, Manuel *see* **Cuevas, Antonio et al.**
Fedoryanich, T. V. *see* **Kozachenko, Yu. V., 2005h:62184**
Fraiman, Ricardo *see* **Cuevas, Antonio et al.**
Fujikoshi, Yasunori (*with* Himeno, Tetsuto; Wakaki, Hirofumi) Asymptotic results of a high dimensional Manova test and power comparison when the dimension is large compared to the sample size. (English summary) **2005c:62122**
Gabriel, K. Ruben Some heuristics for analysis of variance. (English summary) (*see* **2005i:62004**)
García-Fiñana, Marta (*with* Cruz-Orive, Luis M.) Improved variance prediction for systematic sampling on $\mathbb{R}$. (English summary) **2005d:62119**
Genton, Marc G. *see* **Ehm, Werner et al., 2005a:62164**
Glendinning, Paul View from the Pennines: variance—what the $n-1$?
Gneiting, Tilmann *see* **Ehm, Werner et al., 2005a:62164**
González Aguilera, Silvia *see* **Arcos Cebrián, Antonio et al.**
Groenen, Patrick J. F. (*with* Meulman, Jacqueline J.) A comparison of the ratio of variances in distance-based and classical multivariate analysis. (English summary) **2005g:62125**
Grzebyk, Michel (*with* Wild, Pascal; Chouanière, Dominique) On identification of multi-factor models with correlated residuals. (English summary) **2005e:62102**
Gui, Yong Xin *see* **Yan, Guo Yi et al.**
Guilbaud, Olivier *see* **Sjögren, Niclas**
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Gutiérrez-Peña, Eduardo *see* **Consonni, Guido et al., 2005d:62118**
Hartung, Joachim (*with* Knapp, Guido) On confidence intervals for the among-group variance in the one-way random effects model with unequal error variances. (English summary)
Hayashi, Kentaro *see* **Yuan, Ke-Hai**
Himeno, Tetsuto *see* **Fujikoshi, Yasunori et al., 2005c:62122**
Hu, Fei Fang *see* **Tymofyeyev, Y. et al., (2005f:62009)**
Huang, Chao (*with* Xiao, Zhi Hong; Liu, Xian Long) A least squares estimate of covariance matrix in an extended growth curve model and its optimal property. (Chinese. English and Chinese summaries) **2005g:62126**
(Huang, Fuchun) *see* **Rosset, Saharon, 2005e:62103**
Huang, Li Kun (*with* Ye, Ying; Wang, Jin Tao; Xiao, Hao) Dynamic revised Bayesian method for the variance of shot firing dispersion. (Chinese. English and Chinese summaries) **2005h:62183**
Jiang, Jiming Dispersion matrix in balanced mixed ANOVA models. (English summary) **2005b:62153**
Keselman, H. J. *see* **Wilcox, Rand R.**
Kim, Hyon-Jung (*with* Boos, Dennis D.) Variance estimation in spatial regression using a non-parametric semivariogram based on residuals. (English summary)
Klimczak, Monika (*with* Rychlik, Tomasz) Maximum variance of Kth records. (English summary) **2005g:62127**
Knapp, Guido *see* **Hartung, Joachim**
Košir, Andrej (*with* Mujčić, Aljo; Suljanović, Nermin; Tasič, Jurij F.) Noise variance estimation based on measured maximums of sampled subsets. (English summary) **2005c:62123**
Kozachenko, Yu. V. (*with* Fedoryanich, T. V.) Criteria for testing hypotheses about a covariance function. (Ukrainian. English summary) **2005h:62184**
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Li, Xiao-Rong *see* **Zhu, Yunmin et al., 2005j:62150**
Liu, Xian Long *see* **Huang, Chao et al., 2005g:62126** *and* **Yan, Guo Yi et al.**
Luh, Wei-Ming (*with* Guo, Jiin-Huarng) Improved robust test statistic based on trimmed means and Hall's transformation for two-way ANOVA models under non-normality. (English summary)
Ma, Chunsheng Linear combinations of space-time covariance functions and variograms. (English summary) **2005k:62173**
Mak, Tak K. Estimating variances for all sample sizes by the bootstrap. (English summary) **2005b:62154**
Makambi, K. H. On positive estimation of the between-study variance in a one-way random effects ANOVA model. (English summary) **2005i:62107**
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Martínez-Miranda, M. D. *see* **Arcos Cebrián, Antonio et al.**
Mather, Katrina J. (*with* Rayner, J. C. W.) Testing equality of corresponding variances from multiple covariance matrices. (English summary) (*see* **2005a:62014**)
Mecatti, F. (*with* Migliorati, S.) Comparison of mean estimators in center sampling. (Italian. English and Italian summaries)
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Nakamori, Seiichi New design of recursive Wiener fixed-lag smoother in linear discrete-time stochastic systems. (English summary) **2005f:62113**
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Oono, Youhei (*with* Shinozaki, Nobuo) Estimation of error variance in the analysis of experiments using two-level orthogonal arrays. (English summary) **2005a:62166**
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Rojas, Cirilo Alvarez (*with* Rathie, Pushpa Narayan) A note on the distribution of a LRC in multinormal complex case. (English summary)
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von Rosen, Dietrich *see* **Srivastava, Muni S., 2005k:62175**
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Rosset, Saharon (*with* Zhu, Ji) Corrected proof of the result of: "Prediction error property of the lasso estimator and its generalization" [Aust. N. Z. J. Stat. **45** (2003), no. 2, 217–228; MR1983833 (2004d:62324)] by F. Huang. (English summary) **2005e:62103**
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Sen, Kalipada (*with* Sharmin, S.) HANOVA for three way classification with several (equal) observations per cell. (English summary)
Shaĭkin, M. E. Statistical estimation and identification problems on commutative covariance structures. (Russian. Russian summary) **2005h:62185**
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Singh, Housila Prasad (*with* Singh, Rajesh[1]) Estimation of variance through regression approach in two phase sampling. (English summary)
— (*with* Chandra, Prem^2; Singh, Sarjinder) Variance estimation using multiauxiliary information for random non-response in survey sampling. (English and Italian

summaries)
— *see also* **Chandra, Prem²**
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Singh, Sarjinder *see* **Singh, Housila Prasad et al.**
Sjögren, Niclas (*with* Guilbaud, Olivier) Comparison of within-subject covariance matrices in 2 × 2 crossover trials with multivariate response. (English summary)
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Traat, Imbi Approximate design-based variance of functions of covariance matrix. (English summary)
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Tymofyeyev, Y. (*with* Rosenberger, W. F.; Hu, Fei Fang) Asymptotic properties of urn designs for three-arm clinical trials. (English summary) (*see* **2005f:62009**)
Uckelmann, Ludger *see* **Rüschendorf, Ludger, 2005j:62148**
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Vuchkov, I. N. Error transmission in mixture experiments. (English summary) (*see* **2005f:62009**)
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Wang, Song Gui *see* **Shi, Jian Hong², 2005g:62130**
Wang, Suojin (*with* Dorfman, Alan H.; Ernst, Lawrence R.) A new variance estimator for a two-phase restratified sample with PPS sampling at both phases. (English summary)
Wilcox, Rand R. (*with* Keselman, H. J.) Repeated measures one-way ANOVA based on a modified one-step M-estimator. (English summary)
Wild, Pascal *see* **Grzebyk, Michel et al., 2005e:62102**
Windmeijer, Frank A finite sample correction for the variance of linear efficient two-step GMM estimators. (English summary)
Wood, Andrew T. A. *see* **Butler, Ronald W., 2005h:62181**
Wu, Berlin *see* **Beck, Jan B. et al., 2005j:62147**
Wulff, Shaun S. (*with* Birkes, D.) Minimum variance unbiased invariant estimation of variance components under normality. (English summary) **2005m:62138**
Xiao, Hao *see* **Huang, Li Kun et al., 2005h:62183**
Xiao, Zhi Hong *see* **Huang, Chao et al., 2005g:62126**
Yan, Guo Yi (*with* Liu, Xian Long; Gui, Yong Xin) The least squares estimate of covariance matrices in the growth curve model with random effects. (Chinese. English and Chinese summaries)
Ye, Ying *see* **Huang, Li Kun et al., 2005h:62183**
Yin, Xiangrong (*with* Cook, R. Dennis) Asymptotic distribution of test statistic for the covariance dimension reduction methods in regression. (English summary) **2005e:62105**
Young, Dean Max (*with* Paul, David A.; Turner, Danny W.) Independence distribution-preserving joint covariance structures for sample covariance matrices. (English summary) **2005j:62149**
Yuan, Ke-Hai (*with* Hayashi, Kentaro) Bootstrap approach to inference and power analysis based on three test statistics for covariance structure models. (English summary)
Zeng, Jianjun *see* **Wang, Haixian et al., 2005b:62155**
Žežula, Ivan The extended growth curve model—an overview with special reference to two components model. (English summary)
Zhao, Juan *see* **Zhu, Yunmin et al., 2005j:62150**
Zhu, Ji *see* **Rosset, Saharon, 2005e:62103**
Zhu, Yunmin (*with* Li, Xiao-Rong; Zhao, Juan) Linear minimum variance estimation fusion. (English summary) **2005j:62150**

Items with secondary classifications in 62J10

Abadir, Karim M. (*with* Talmain, Gabriel) Autocovariance functions of series and of their transforms. (English summary) **2005k:62196**
Abramovich, Felix (*with* Antoniadis, Anestis; Sapatinas, Theofanis; Vidakovic, Brani) Optimal testing in a fixed-effects functional analysis of variance model. (English summary)
Aitkin, Murray (*with* Francis, Brian; Hinde, John) ★ Statistical modelling in GLIM 4.
Aït-Sidi-Allal, M. L. (*with* Baccini, A.; Mondot, A. M.) A new algorithm for estimating the parameters and their asymptotic covariance in correlation and association models. (English summary) **2005b:62051**
Akritas, Michael G. *see* **Wang, Haiyan, 2005e:62070**
Alexopoulos, C. (*with* Goldsman, D.; Tsui, K.-L.; Jiang, W.) SPC monitoring and variance estimation. (English summary) (*see* **2005a:62017**)
Antoniadis, Anestis *see* **Abramovich, Felix et al.**
Aston, John A. D. (*with* Gunn, Roger N.) Statistical estimation with Kronecker products in positron emission tomography. (English summary) **2005i:92006**
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Baccini, A. *see* **Aït-Sidi-Allal, M. L. et al., 2005b:62051**
Barnett, N. S. (*with* Dragomir, Sever Silvestru) Some further inequalities for univariate moments and some new ones for the covariance. (English summary) **2005c:60020**
Bashkirtseva, I. A. (*with* Ryashko, L. B.) Stochastic sensitivity of 3D-cycles. (English summary) **2005a:34080**
Bathke, Arne Testing monotone effects of covariates in nonparametric mixed models. (English summary) **2005j:62092**
Bayon, Roman (*with* Lygeros, Nik; Sereni, Jean-Sébastien) New progress in enumeration of mixed models. (English summary) **2005j:62151**
Bell, Bradley M. *see* **Pillonetto, Gianluigi, 2005c:92011**
Berg, Bernd A. ★ Markov chain Monte Carlo simulations and their statistical analysis.
Berger, Yves G. Variance estimation with Chao's sampling scheme. (English summary) **2005h:62035**
Boscardin, W. John (*with* Zhang, Xiao²) Modeling the covariance and correlation matrix of repeated measures. (*see* **2005m:62005**)
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Bristol, David R. (*with* Stouffer, Nicole) A maximum modulus test with unequal variances. (English summary)
Bucklew, James Antonio ★ Introduction to rare event simulation. **2005e:62001**
Burda, Zdzisław (*with* Jurkiewicz, Jerzy Władysław; Nowak, Maciej A.; Papp, Gabor; Zahed, Ismail) Free Lévy matrices and financial correlations. (English summary) **2005f:91110**
Camdeviren, Handan (*with* Mendes, Mehmet) A simulation study for type III error rates of some variance homogeneity tests. (English summary)
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Chen, Feng Statistical methods for dependent data. (*see* **2005c:62003**)
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Chen, Hong-jian Directional random effect model and its covariance structure. (English and Chinese summaries) **2005h:62153**
Chen, Jinbo (*with* Breslow, Norman E.) Semiparametric efficient estimation for the auxiliary outcome problem with the conditional mean model. (English and French summaries)
Chinipardaz, R. (*with* Cox, T. F.) The inverse of covariance matrices for the ARMA (p, q) class of processes. (English and Persian summaries)
Chiou, Jeng-Min (*with* Müller, Hans-Georg) Quasi-likelihood regression with multiple indices and smooth link and variance functions. (English summary)
Chiuso, Alessandro (*with* Picci, Giorgio) Numerical conditioning and asymptotic variance of subspace estimates. (English summary)
Choi, Jai Won *see* **Nandram, Balgobin**
Clifford, David Computation of spatial covariance matrices. (English summary)
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Deville, Jean-Claude (*with* Tillé, Yves) Efficient balanced sampling: the cube method. (English summary)
— (*with* Tillé, Yves) Variance approximation under balanced sampling. (English summary) **2005i:62030**
Diana, Giancarlo (*with* Tommasi, Chiara) Optimal use of two auxiliary variables in double sampling. (English summary)
Di Bucchianico, Alessandro (*with* van de Wiel, Mark A.) Exact null distributions of distribution-free quadratic t-sample statistics. (English summary) **2005f:62024**
Domínguez Menchero, José Santos (*with* González-Rodríguez, Gil; López Palomo, María Jesús) An L_2 point of view in testing monotone regression. (English summary) **2005h:62105**
Dong, Pu (*with* Lu, Yu Zhen) Maximum likelihood estimation of means and variances from normal distribution for which means are under simple tree semi-order restrictions, and variances are under simple semi-order restrictions. (Chinese. English and Chinese summaries) **2005h:62072**
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Dragomir, Sever Silvestru *see* **Barnett, N. S., 2005c:60020**
Dubey, Vyas (*with* Suryakant) A shrinkage type estimator of population variance using auxiliary information. (English summary)
DuBien, Janice L. (*with* Warde, William D.; Chae, Seong S.) Moments of Rand's (statistic in cluster analysis. (English summary) **2005m:62121**
El-Arishy, Samia A conditional variance characterization of some discrete probability distributions. **2005h:62043**
Engen, Steinar (*with* Lande, Russell; Sæther, Bernt-Erik; Weimerskirch, Henri) Extinction in relation to demographic and environmental stochasticity in age-structured models. (English summary) **2005m:92034**
Fahrmeir, Ludwig (*with* Kneib, Thomas; Lang, Stefan²) Penalized structured additive regression for space-time data: a Bayesian perspective. (English summary)
Fonseca, Miguel (*with* Mexia, João Tiago; Zmyślony, Roman) Estimators and tests for variance components in cross nested orthogonal designs. (English summary) **2005b:62123**
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Fuller, Wayne A. *see* **Kim, Jae Kwang**
García Lizana, Antonio (*with* Pérez Moreno, Salvador) A specific relation between income distribution and economic growth: the "L Hypothesis". (Spanish. Spanish summary)
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González-Rodríguez, Gil *see* **Domínguez Menchero, José Santos et al., 2005h:62105**
Grasman, Raoul P. P. P. *see* **Wagenmakers, Eric-Jan et al.**
Gu, Chong Model diagnostics for smoothing spline ANOVA models. (English and French summaries)

Guirguis, Georges H. (*with* Tobias, R. D.) On the computation of the distribution for the analysis of means. (English summary)
Gunn, Roger N. *see* **Aston, John A. D., 2005i:92006**
Gutiérrez, María-José (*with* Vázquez, Jesús) Switching equilibria: the present value model for stock prices revisited. (English summary) **2005d:91052**
Hayter, Anthony J. *see* **Tamhane, Ajit C., (2005h:62008)**
Heiberger, Richard M. (*with* Holland, Burt) ★ Statistical analysis and data display. **2005b:62002**
Heller, Glenn (*with* Venkatraman, E. S.) A nonparametric test to compare survival distributions with covariate adjustment. (English summary) **2005c:62079**
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Huang, Deng-Yuan (*with* Lee, Ren-Fen) On some ranking and selection procedures for MANOVA models with applications. (English summary) (*see* **2005h:62008**)
Huang, Jianhua Z. (*with* Wu, Colin O.; Zhou, Lan[1]) Polynomial spline estimation and inference for varying coefficient models with longitudinal data. (English summary) **2005k:62090**
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Hung, Wen-Liang (*with* Wu, Jong-Wuu) A note on determining the number of outliers in a normal sample with unequal variances by least squares procedure. (English summary)
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— Mean-variance optimal reinsurance arrangements. (English summary) **2005c:62192**
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Kim, Jae Kwang (*with* Fuller, Wayne A.) Fractional hot deck imputation. (English summary)
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Kroonenberg, Pieter M. (*with* Oort, Frans J.) Three-mode analysis of multimode covariance matrices. (English summary)
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Li, Shu-you (*with* Zhang, Bao Xue) Robustness of minimum norm quadratic unbiased estimator of variance for the general linear model. (English and Chinese summaries) **2005b:62149**
Li, Zhao Yang (*with* Wang, Yuan Quan; Xia, De Shen) The dispute on the dimension problem of optimal discriminant features. (Chinese. English and Chinese summaries) **2005a:62148**
Lin, Jin Guan (*with* Wei, Bo Cheng) Testing for homogeneity of variance and autocorrelation coefficients in nonlinear models of longitudinal data with AR(1) errors. (Chinese. English and Chinese summaries) **2005m:62131**
— *see also* **Liu, Ying An et al., 2005f:62142**
Liu, Ying An (*with* Wei, Bo Cheng; Lin, Jin Guan) Testing of homogeneity for variance and autocorrelation in linear models with AR(1) errors and random effects. (Chinese. English and Chinese summaries) **2005f:62142**
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— *see also* **Yamato, Hajime et al.**
Mahdi, Smail Results in a multinormal genetic model. (English summary)
Mansouri, H. (*with* Paige, Robert L.; Surles, J. G.) Aligned rank transform techniques for analysis of variance and multiple comparisons. (English summary)
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Molenberghs, Geert (*with* Verbeke, Geert) Meaningful statistical models formulations for repeated measures. (English summary)
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Oakley, Jeremy E. (*with* O'Hagan, Anthony) Probabilistic sensitivity analysis of complex models: a Bayesian approach. (English summary)
O'Hagan, Anthony *see* **Oakley, Jeremy E.**
Okasha, Samir Multi-level selection, covariance and contextual analysis. (English summary)
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Oort, Frans J. *see* **Kroonenberg, Pieter M.**
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Pillonetto, Gianluigi (*with* Bell, Bradley M.) Deconvolution of non-stationary physical signals: a smooth variance model for insulin secretion rate. (English summary) **2005c:92011**
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Raghavachari, M. Measures of concordance for assessing agreement in ratings and rank order data. (English summary) **2005k:62062**
Ran, Hao (*with* Zhu, Zhong Yi) Statistical analysis of heteroscedasticity in semiparametric models. (Chinese. English and Chinese summaries) **2005d:62081**
de Resende, Marcos Deon Vilela (*with* Thompson, Robin) Factor analytic multiplication mixed models in the analysis of multiple experiments. (English and Portuguese summaries)
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Sæther, Bernt-Erik *see* **Engen, Steinar et al., 2005m:92034**
Salehi M., Mohammad (*with* Seber, George A. F.) A general inverse sampling scheme and its application to adaptive cluster sampling. (English summary)
— (*with* Chang, Kuang-Chao) Multiple inverse sampling in post-stratification with subpopulation sizes unknown: a solution for quota sampling. (English summary)
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Sato, Yoshiharu *see* **Yoshida, Kiyotaka et al.**
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methods using a randomized block design with repeat measurements: a case study. (English summary) (*see* **2005h:62008**)
Tanokura, Yoko (*with* Kitagawa, Genshiro) Power contribution analysis for multivariate time series with correlated noise sources. (English summary)
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Wang, Chih-Li *see* **Chang, Horng-Jinh et al.**, 2005c:62017
Wang, Haiyan (*with* Akritas, Michael G.) Rank tests for ANOVA with large number of factor levels. (English summary) **2005e:62070**
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Wang, Song Gui (*with* Wu, Mi-xia; Ma, Wei-qing) Comparison of MINQUE and simple estimate of the error variance in the general linear models. (English summary) **2005b:62150**
— *see also* **Wu, Mi-xia**, 2005m:62058
Wang, You-Gan (*with* Carey, Vincent J.) Unbiased estimating equations from working correlation models for irregularly timed repeated measures. (English summary)
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— *see also* **Wang, Song Gui et al.**, 2005b:62150
Wywiał, Janusz Errata: "Conditional estimation of average on the basis of weighting data" [Statist. Papers **45** (2004), no. 3, 413–431; MR2064721].
Xia, De Shen *see* **Li, Zhao Yang et al.**, 2005a:62148
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Zou, Guangyong (*with* Donner, Allan) Confidence interval estimation of the intraclass correlation coefficient for binary outcome data. (English summary)

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Antoch, Jaromír (*with* Grégoire, Gérard; Jarušková, Daniela) Detection of structural changes in generalized linear models. (English summary) **2005g:62131**
Arnold, Bernhard F. (*with* Stahlecker, Peter) Some properties of the relative squared error approach to linear regression analysis. (English summary) **2005b:62156**
Bayon, Roman (*with* Lygeros, Nik; Sereni, Jean-Sébastien) New progress in enumeration of mixed models. (English summary) **2005j:62151**
Bellio, Ruggero (*with* Sartori, Nicola) Extending conditional likelihood in models for stratified binary data. (English summary)
Breslow, Norman E. Whither PQL? (English summary) (*see* **2005j:62008**)
Briggs, Derek *see* **Rijmen, Frank**, (2005f:62006)
Bueno Filho, Júlio Silvio de Sousa *see* **Nunes, José Airton Rodrigues et al.**
Cardot, Hervé (*with* Sarda, Pascal) Estimation in generalized linear models for functional data via penalized likelihood. (English summary) **2005h:62187**
Commenges, Daniel *see* **Liquet, Benoit**
Cordeiro, Gauss M. On Pearson's residuals in generalized linear models. (English summary) **2005b:62157**
Deng, Dian Liang (*with* Paul, Sudhir R.) Score tests for zero-inflation and over-dispersion in generalized linear models. (English summary)
Dimova, Rositsa (*with* Neykov, Neyko) Application of the D-fullness technique for breakdown point study of the trimmed likelihood estimator to a generalized logistic model. (English summary) **2005a:62169**
Fang, Yixin *see* **Jin, Man et al.**, 2005m:62139
Farewell, Vern T. (*with* Tom, Brian D. M.; Royston, Patrick) The impact of dichotomization on the efficiency of testing for an interaction effect in exponential family models. (English summary)
Foschi, Paolo (*with* Kontoghiorghes, Erricos J.) A computationally efficient method for solving SUR models with orthogonal regressors. (English summary) **2005d:62120**
Gao, Qi Bing (*with* Wu, Yao Hua[1]) Strong consistency of quasi-maximum likelihood estimator in generalized linear models. (Chinese. English and Chinese summaries) **2005i:62109**
Grégoire, Gérard *see* **Antoch, Jaromír et al.**, 2005g:62131
Hua, Jun Zhou (*with* Wu, Chong Feng) Varying-coefficient logistic model estimation and its application. (Chinese. English and Chinese summaries) **2005j:62152**
— (*with* Mei, Chang Lin; Wu, Chong Feng) Varying-coefficient generalized linear model and its estimation. (Chinese. English and Chinese summaries) **2005b:62158**
Jarušková, Daniela *see* **Antoch, Jaromír et al.**, 2005g:62131
Jin, Man (*with* Fang, Yixin; Zhao, Lin Cheng) Variable selection in generalized linear models with canonical link functions. (English summary) **2005m:62139**
Kontoghiorghes, Erricos J. *see* **Foschi, Paolo**, 2005d:62120
Lee, Youngjo (*with* Nelder, John A.) Conditional and marginal models: another view. (English summary)
Liang, Hua (*with* Ren, Haobo) Generalized partially linear measurement error models. (English summary) **2005k:62176**
Liquet, Benoit (*with* Commenges, Daniel) Computation of the p-value of the maximum of score tests in the generalized linear model; application to multiple coding. (English summary)
Liu, Anna (*with* Meiring, Wendy; Wang, Yuedong) Testing generalized linear models using smoothing spline methods. (English summary)
Lygeros, Nik *see* **Bayon, Roman et al.**, 2005j:62151
Mei, Chang Lin *see* **Hua, Jun Zhou et al.**, 2005b:62158
Meiring, Wendy *see* **Liu, Anna et al.**
Mexia, João Tiago *see* **Nunes, Célia Maria Pinto**, 2005f:62114
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Müller, Marlene Generalized linear models. (*see* **2005g:62004**)
Nelder, John A. *see* **Lee, Youngjo**
Neykov, Neyko *see* **Dimova, Rositsa**, 2005a:62169
Nunes, Célia Maria Pinto (*with* Mexia, João Tiago) Selective F tests for sub-normal models. (English summary) **2005f:62114**
Nunes, José Airton Rodrigues (*with* de Morais, Augusto Ramalho; Bueno Filho, Júlio Sílvio de Sousa) Modelling overdispersion in binomial data by a generalized linear mixed model. (Portuguese. English and Portuguese summaries)
Paul, Sudhir R. *see* **Deng, Dian Liang**
Qiu, Zhenguo *see* **Song, Peter X.-K. et al.**
Ren, Haobo *see* **Liang, Hua**, 2005k:62176
Rijmen, Frank (*with* Briggs, Derek) Multiple person dimensions and latent item predictors. (*see* **2005f:62006**)
Ritz, Christian Goodness-of-fit tests for mixed models. (English summary) 2005c:62124
Royston, Patrick *see* **Farewell, Vern T. et al.**
Sarda, Pascal *see* **Cardot, Hervé**, 2005h:62187
Sartori, Nicola *see* **Bellio, Ruggero**
Sereni, Jean-Sébastien *see* **Bayon, Roman et al.**, 2005j:62151
Song, Peter X.-K. (*with* Qiu, Zhenguo; Tan, Ming) Modelling heterogeneous dispersion in marginal models for longitudinal proportional data. (English summary)
Stahlecker, Peter *see* **Arnold, Bernhard F.**, 2005b:62156
Tan, Ming *see* **Song, Peter X.-K. et al.**
Tom, Brian D. M. *see* **Farewell, Vern T. et al.**
Volaufová, Júlia Some estimation problems in multistage linear models. (English summary) **2005e:62106**
Wang, Yuedong *see* **Liu, Anna et al.**
Wu, Chong Feng *see* **Hua, Jun Zhou et al.**, 2005b:62158 *and* 2005j:62152
Wu, Yao Hua[1] *see* **Gao, Qi Bing**, 2005i:62109
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Items with secondary classifications in 62J12

Alcalá, J. T. *see* **Ojeda, J. L. et al.**, 2005j:62103
Bailey, Trevor C. (*with* Hewson, Paul J.) Simultaneous modelling of multiple traffic safety performance indicators by using a multivariate generalized linear mixed model. (English summary)
Bates, Douglas M. (*with* DebRoy, Saikat) Linear mixed models and penalized least squares. (English summary)
Beirlant, Jan *see* **Hoedemakers, Tom et al.**
Bose, Arup (*with* Sengupta, Debapriya) Strong consistency of minimum contrast estimators with applications. (English summary) **2005a:62068**
Chen, Xiru *see* **Yue, Li**, 2005m:62060
Chiogna, Monica (*with* Gaetan, Carlo) Mortality and air pollution in Philadelphia: A dynamic generalized linear modelling approach. (English summary) (*see* **2005f:62007**)
Christensen, Ole F. Monte Carlo maximum likelihood in model-based geostatistics. (English summary)
Cristóbal Cristóbal, José Antonio *see* **Ojeda, J. L. et al.**, 2005j:62103
Das, Kalyan *see* **Naskar, Malay**
(De Boeck, Paul) *see* **Explanatory item response models**, 2005f:62006
DebRoy, Saikat *see* **Bates, Douglas M.**
Demidenko, E. Z. ★ Mixed models. **2005e:62002**
Dhaene, Jan *see* **Hoedemakers, Tom et al.**
Dobson, Annette J. ★ An introduction to generalized linear models. **2005a:62001**
Eilers, Paul H. C. *see* **Marx, Brian D.**

Fahrmeir, Ludwig (*with* Kneib, Thomas; Lang, Stefan[2]) Penalized structured additive regression for space-time data: a Bayesian perspective. (English summary)
Fan, Jianqing (*with* Zhang, Jian[4]) Sieve empirical likelihood ratio tests for nonparametric functions. (English summary) **2005h:62131**
Feddag, Mohand-Larbi (*with* Mesbah, Mounir) Semiparametric approach to the multivariate mixed Rasch model. (English summary) (*see* **2005d:62008**)
Fitzmaurice, Garrett M. (*with* Laird, Nan M.; Ware, James H.) ★ Applied longitudinal analysis. **2005a:62002**
Fujii, Yoshinori (*with* Yanagimoto, Takemi) Pairwise conditional score functions: a generalization of the Mantel-Haenszel estimator. (English summary) **2005g:62042**
Gaetan, Carlo *see* **Chiogna, Monica**, (**2005f:62007**)
Gao, Qi Bing (*with* Wu, Yao Hua[1]; Zhu, Chun Hua; Li, Guo Liang[2]) Asymptotic theory for quasi-maximum-likelihood estimators in generalized linear models with adaptive designs. (Chinese. English and Chinese summaries) **2005a:62069**
Gervini, Daniel Robust adaptive estimators for binary regression models. (English summary)
Gill, Ryan Maximum likelihood estimation in generalized broken-line regression. (English and French summaries) **2005f:62041**
Goovaerts, Marc J. *see* **Hoedemakers, Tom et al.**
Guha, Apratim Analysis of scoring rate in a limited over cricket match. (English summary)
Härdle, Wolfgang K. (*with* Müller, Marlene; Sperlich, Stefan; Werwatz, Axel) ★ Nonparametric and semiparametric models. **2005a:62004**
Hewson, Paul J. *see* **Bailey, Trevor C.**
Hoedemakers, Tom (*with* Beirlant, Jan; Goovaerts, Marc J.; Dhaene, Jan) On the distribution of discounted loss reserves using generalized linear models. (English summary)
Hsiao, Cheng *see* **Li, Tong[2]**, **2005f:62090**
Huber, Philippe (*with* Ronchetti, Elvezio; Victoria-Feser, Maria-Pia) Estimation of generalized linear latent variable models. (English summary)
Huh, Jib Nonparametric discontinuity point estimation in generalized linear model. (English summary) **2005b:62093**
Joutard, C. Large deviations for M-estimators. (English summary) **2005h:62085**
Khan, Shahjahan Predictive distribution of regression vector and residual sum of squares for normal multiple regression model. (English summary)
Kneib, Thomas *see* **Fahrmeir, Ludwig et al.**
Kolassa, John E. Continuity correction for the score statistic in discrete regression models. (English summary) (*see* **2005i:62004**)
Kotti, Vassiliki (*with* Rigas, A. G.) Improving the performance of a stochastic model by incorporating a non-linear term: application to a spiking biological system. (English summary)
Laird, Nan M. *see* **Fitzmaurice, Garrett M. et al.**, **2005a:62002**
Lang, Stefan[2] *see* **Fahrmeir, Ludwig et al.**
Li, Guo Liang[2] *see* **Gao, Qi Bing et al.**, **2005a:62069**
Li, Guo Ying[1] *see* **Li, Xin Min**
Li, Tong[2] (*with* Hsiao, Cheng) Robust estimation of generalized linear models with measurement errors. (English summary) **2005f:62090**
Li, Xin Min (*with* Li, Guo Ying[1]) Exact confidence intervals for a variance ratio in mixed linear models. (English and Chinese summaries)
Li, Yi[8] Linear regression and linear mixed models with contaminated covariates. (English summary)
López-Fidalgo, Jesús *see* **Tommasi, Chiara**
Mao, Shi Song *see* **Zeng, Lin Rui et al.**, **2005h:62190**
Marx, Brian D. (*with* Eilers, Paul H. C.) Multidimensional penalized signal regression. (English summary)
Mazmanoglu, Adnan Variance analyses of advantages and disadvantages of the service that active financial associations provide their customers solution by the model of hierarchy classification with two factors and their applications. (English summary)
Meng, Xiao-Li *see* **Vaida, Florin et al.**, (**2005m:62005**)
Mesbah, Mounir *see* **Feddag, Mohand-Larbi**, (**2005d:62008**)
Müller, Marlene *see* **Härdle, Wolfgang K. et al.**, **2005a:62004**
Naskar, Malay (*with* Das, Kalyan) Inference in Dirichlet process mixed generalized linear models by using Monte Carlo EM. (English summary)
Ojeda, J. L. (*with* Cristóbal Cristóbal, José Antonio; Alcalá, J. T.) Nonparametric confidence bands construction for GLM models with length biased data. (English summary) **2005j:62103**
Pettersson, Hans Optimal design in average for inference in generalized linear models. **2005h:62199**
Ponce de Leon, A. *see* **Rodrigues Pinto, E.**, (**2005f:62009**)
Rigas, A. G. *see* **Kotti, Vassiliki**
Rodrigues Pinto, E. (*with* Ponce de Leon, A.) Bayesian D-optimal designs for generalized linear models with a varying dispersion parameter. (English summary) (*see* **2005f:62009**)
Ronchetti, Elvezio *see* **Huber, Philippe et al.**
Schiopu-Kratina, Ioana Asymptotic results for GEE with data from complex surveys. (English summary) **2005b:60057**
Sengupta, Debapriya *see* **Bose, Arup**, **2005a:62068**
Shieh, Gwowen On power and sample size calculations for Wald tests in generalized linear models. (English summary)
Sperlich, Stefan *see* **Härdle, Wolfgang K. et al.**, **2005a:62004**
Spitzner, Dan J. Risk-reducing shrinkage estimation for generalized linear models. (English summary)
Tommasi, Chiara (*with* López-Fidalgo, Jesús) Minimax designs for a parametrization of binary response models. (English summary)
Tuerlinckx, Francis (*with* Wang, Wen-Chung) Models for polytomous data. (*see* **2005f:62006**)
Vaida, Florin (*with* Meng, Xiao-Li; Xu, Ronghui) Mixed effects models and the EM algorithm. (*see* **2005m:62005**)
Verrall, R. J. A Bayesian generalized linear model for the Bornhuetter-Ferguson method of claims reserving. (English summary)
Victoria-Feser, Maria-Pia *see* **Huber, Philippe et al.**
Wang, Wen-Chung *see* **Tuerlinckx, Francis**, (**2005f:62006**)
Ware, James H. *see* **Fitzmaurice, Garrett M. et al.**, **2005a:62002**
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Yanagimoto, Takemi *see* **Fujii, Yoshinori**, **2005g:62042**
Yue, Li (*with* Chen, Xiru) Rate of strong consistency of quasi maximum likelihood estimate in generalized linear models. (English summary) **2005m:62060**
Zeng, Lin Rui (*with* Zhu, Zhong Yi; Mao, Shi Song) Influence analysis and outlier tests for a semiparametric generalized linear model. (Chinese. English and Chinese summaries) **2005h:62190**
Zhang, Jian[4] *see* **Fan, Jianqing**, **2005h:62131**
Zhu, Chun Hua *see* **Gao, Qi Bing et al.**, **2005a:62069**
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Items listed otherwise than by author

Explanatory item response models ★ Explanatory item response models. **2005f:62006**

62J15 Paired and multiple comparisons

Alexandridis, Roxana *see* **Ozturk, Omer et al.**, **2005c:62125**
Bhargava, Parul (*with* Spurrier, John D.) Exact confidence bounds for comparing two regression lines with a control regression line on a fixed interval. (English summary)
Böckenholt, Ulf *see* **Tsai, Rung-Ching**, **2005c:62126**
Bretz, Frank *see* **Genz, Alan et al.**, (**2005i:62006**)
Burgess, Leonie (*with* Street, Deborah J.) Optimal designs for choice experiments with asymmetric attributes. (English summary) **2005m:62140**
Choudhary, Pankaj K. (*with* Nagaraja, H. N.) Measuring agreement in method comparison studies—a review. (English summary) (*see* **2005h:62008**)
Cribbie, Robert A. (*with* Keselman, H. J.) Pairwise multiple comparisons: a model comparison approach versus stepwise procedures. (English summary)
Donoghue, John R. Implementing Shaffer's multiple comparison procedure for a large number of groups. (English summary) (*see* **2005i:62006**)
Dunnett, Charles W. *see* **Horn, Manfred**, (**2005i:62006**)
Genz, Alan (*with* Bretz, Frank; Hochberg, Yosef) Approximations to multivariate t integrals with application to multiple comparison procedures. (English summary) (*see* **2005i:62006**)
Hayter, Anthony J. *see* **Tamhane, Ajit C.**, (**2005h:62008**)
Hirotsu, Chihiro (*with* Ohta, Eri) Profile analysis based on repeated measurements—a new approach to the analysis of interaction. (English summary) (*see* **2005a:62017**)
Hochberg, Yosef *see* **Genz, Alan et al.**, (**2005i:62006**)
Horn, Manfred (*with* Dunnett, Charles W.) Power and sample size comparisons of stepwise FWE and FDR controlling test procedures in the normal many-one case. (English summary) (*see* **2005i:62006**)
Iizuka, Masaya (*with* Ujiie, Katsumi) A generalized modification of Scheffé's paired comparisons: a theoretical approach to decrease the number of experiments. (English summary) (*see* **2005b:62010**)
Keselman, H. J. *see* **Cribbie, Robert A.**
Lewis, Charles (*with* Thayer, Dorothy T.) A loss function related to the FDR for random effects multiple comparisons. (English summary)
Liao, Bang-Xing *see* **Wu, Shu-Fei**
Limayem, F. (*with* Yannou, B.) Generalization of the RCGM and LSLR pairwise comparison methods. (English summary)
Logan, Brent R. (*with* Tamhane, Ajit C.) On O'Brien's OLS and GLS tests for multiple endpoints. (English summary) (*see* **2005i:62006**)
Maydeu-Olivares, Albert Limited information estimation and testing of Thurstonian models for preference data. (English summary)
Nagaraja, H. N. *see* **Choudhary, Pankaj K.**, (**2005h:62008**)
Ohta, Eri *see* **Hirotsu, Chihiro**, (**2005a:62017**)
Ozturk, Omer (*with* Wolfe, Douglas A.; Alexandridis, Roxana) Multi-sample inference for simple-tree alternatives with ranked-set samples. (English summary) **2005c:62125**
Sarkar, Sanat Kumar FDR-controlling stepwise procedures and their false negatives rates. (English summary)
Schmeidler, James Improved algorithms for closed step-down procedures to test heterogeneity of all subsets of means. (English summary) **2005h:62188**
Spurrier, John D. *see* **Bhargava, Parul**
Street, Deborah J. *see* **Burgess, Leonie**, **2005m:62140**
Tamhane, Ajit C. (*with* Hayter, Anthony J.) Comparing variances of several measurement methods using a randomized block design with repeat measurements: a case study. (English summary) (*see* **2005h:62008**)
— *see also* **Logan, Brent R.**, (**2005i:62006**)
Thayer, Dorothy T. *see* **Lewis, Charles**
Tsai, Rung-Ching (*with* Böckenholt, Ulf) Two-level linear paired comparison models: estimation and identifiability issues. (English summary) **2005c:62126**
Ujiie, Katsumi *see* **Iizuka, Masaya**, (**2005b:62010**)
Wolfe, Douglas A. *see* **Ozturk, Omer et al.**, **2005c:62125**
Wu, Shu-Fei (*with* Liao, Bang-Xing) A simulation study of multiple comparisons with the average under heteroscedasticity. (English summary)
Yannou, B. *see* **Limayem, F.**

Items with secondary classifications in 62J15

(Balakrishnan, Narayanaswamy) *see* **Advances in ranking and selection, multiple comparisons, and reliability**, **2005h:62008**
(Benjamini, Y.) *see* **Recent developments in multiple comparison procedures**, **2005i:62006**
Biswas, Atanu (*with* Coad, D. Stephen) A general multi-treatment adaptive design for multivariate responses. (English summary)
(Bretz, Frank) *see* **Recent developments in multiple comparison procedures**, **2005i:62006**
Chen, Gang[2] *see* **Chi, George Y. H. et al.**, (**2005c:62003**)
Chen, Jie[10] (*with* Sarkar, Sanat Kumar) Multiple testing of response rates with a control: a Bayesian stepwise approach. (English summary) **2005e:62027**

Chen, Tuhao J. (*with* Hoppe, Fred M.) A connection between successive comparisons and ranking procedures. (English summary) **2005b:62048**
Chi, George Y. H. (*with* Jin, Kun; Chen, Gang[2]; Cui, Lu) Some statistical issues of relevance to confirmatory trials. (*see* **2005c:62003**)
Coad, D. Stephen *see* **Biswas, Atanu**
Cui, Lu *see* **Chi, George Y. H. et al.**, (**2005c:62003**)
De Beuckelaer, Alain Comparison of construct mean scores across populations: a conceptual framework. (English summary) (*see* **2005b:62010**)
Eszlinger, Markus *see* **Kropf, Siegfried et al.**, **2005e:62069**
Fagin, Ronald (*with* Kumar, S. Ravi; Sivakumar, Dandapani) Comparing top k lists. (English summary) **2005a:68154**
Graßhoff, Ulrike (*with* Großmann, Heiko; Holling, Heinz; Schwabe, Rainer) Optimal designs for main effects in linear paired comparison models. (English summary) **2005c:62131**
Großmann, Heiko *see* **Graßhoff, Ulrike et al.**, **2005c:62131**
Hin, Lin Yee *see* **Hsu, Jason C. et al.**, (**2005i:62006**)
Hirotsu, Chihiro Multiplicity problems in the clinical trial and some statistical approaches. (English summary) (*see* **2005b:62011**)
Holling, Heinz *see* **Graßhoff, Ulrike et al.**, **2005c:62131**
Hommel, Gerhard *see* **Kropf, Siegfried**
Hoppe, Fred M. *see* **Chen, Tuhao J.**, **2005b:62048**
Hsu, Jason C. (*with* Qiu, Peihua; Hin, Lin Yee; Mutti, Donald O.; Zadnik, Karla) Multiple comparisons with the best ROC curve. (English summary) (*see* **2005i:62006**)
— *see also* **Rogers, James A. et al.**
Jaworski, Stanisław (*with* Zieliński, Wojciech) A procedure for ε-comparison of means of two normal distributions. (English summary) **2005c:62012**
Jin, Kun *see* **Chi, George Y. H. et al.**, (**2005c:62003**)
Johnson, Wesley O. *see* **Watnik, Mitchell R.**, **2005g:62122**
(Kannan, Nandini) *see* **Advances in ranking and selection, multiple comparisons, and reliability**, **2005h:62008**
Korn, Edward L. (*with* Troendle, James F.; McShane, Lisa M.; Simon, Richard) Controlling the number of false discoveries: application to high-dimensional genomic data. (English summary)
Krohn, Knut *see* **Kropf, Siegfried et al.**, **2005e:62069**
Kropf, Siegfried (*with* Hommel, Gerhard) New parametric and nonparametric multiple test procedures for high-dimensional data. (English summary)
— (*with* Läuter, Jürgen; Eszlinger, Markus; Krohn, Knut; Paschke, Ralf) Nonparametric multiple test procedures with data-driven order of hypotheses and with weighted hypotheses. (English summary) **2005e:62069**
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Läuter, Jürgen *see* **Kropf, Siegfried et al.**, **2005e:62069**
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Logan, Brent R. *see* **Tamhane, Ajit C.**, **2005c:62034**
Mansouri, H. (*with* Paige, Robert L.; Surles, J. G.) Aligned rank transform techniques for analysis of variance and multiple comparisons. (English summary)
McShane, Lisa M. *see* **Korn, Edward L. et al.**
Müller, Peter[2] (*with* Parmigiani, Giovanni; Robert, Christian P.; Rousseau, Judith) Optimal sample size for multiple testing: the case of gene expression microarrays. (English summary)
Mutti, Donald O. *see* **Hsu, Jason C. et al.**, (**2005i:62006**)
(Nagaraja, H. N.) *see* **Advances in ranking and selection, multiple comparisons, and reliability**, **2005h:62008**
Paige, Robert L. *see* **Mansouri, H. et al.**
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Qiu, Peihua *see* **Hsu, Jason C. et al.**, (**2005i:62006**)
Robert, Christian P. *see* **Müller, Peter[2] et al.**
Rogers, James A. (*with* Hsu, Jason C.; Lin, Shili) Using the partitioning principle to construct confidence sets for the location of a disease gene. (English summary)
Rousseau, Judith *see* **Müller, Peter[2] et al.**
Rublík, František (*with* Sen, Pranab Kumar[1]) A note on multiple comparisons in the method of M-ranking. (English summary) **2005b:62102**
Saito, Takayuki (*with* Yadohisa, Hiroshi) ★ Data analysis of asymmetric structures. **2005j:62006**
Sarkar, Sanat Kumar *see* **Chen, Jie[10]**, **2005e:62027** *and* **Recent developments in multiple comparison procedures**, **2005i:62006**
Schwabe, Rainer *see* **Graßhoff, Ulrike et al.**, **2005c:62131**
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Surles, J. G. *see* **Mansouri, H. et al.**
Tamhane, Ajit C. (*with* Logan, Brent R.) A superiority-equivalence approach to one-sided tests on multiple endpoints in clinical trials. (English summary) **2005c:62034**
— (*with* Westfall, Peter H.) Preface [Special issue on multiple comparisons].
Troendle, James F. *see* **Korn, Edward L. et al.**
Watnik, Mitchell R. (*with* Johnson, Wesley O.) The behaviour of linear model selection tests under globally non-nested hypotheses. (English summary) **2005g:62122**
Westfall, Peter H. *see* **Tamhane, Ajit C.**
Yadohisa, Hiroshi *see* **Saito, Takayuki**, **2005j:62006**
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Items listed otherwise than by author

Advances in ranking and selection, multiple comparisons, and reliability ★ Advances in ranking and selection, multiple comparisons, and reliability. **2005h:62008**
Philadelphia, PA ★ Recent developments in multiple comparison procedures. **2005i:62006**
Recent developments in multiple comparison procedures ★ Recent developments in multiple comparison procedures. **2005i:62006**

62J20 Diagnostics

Faĭnzil'berg, L. S. Conditions for the usefulness of diagnostic tests from the standpoint of statistical decision theory. (Russian. English, Russian and Ukrainian summaries) **2005k:62177**
Fung, Wing Kam (*with* Zhu, Zhong Yi; Wei, Bo Cheng) Sensitivity analysis in semiparametric regression models. (English summary) **2005e:62107**
Galea Rojas, Manuel (*with* Leiva-Sánchez, Víctor; Paula, Gilberto A.) Influence diagnostics in log-Birnbaum-Saunders regression models. (English summary)
Gu, Chong Model diagnostics for smoothing spline ANOVA models. (English and French summaries)
King, Maxwell L. *see* **Zhang, Xibin**
Lee, Seung-Yeoun *see* **Park, Taesung**
Leiva-Sánchez, Víctor *see* **Galea Rojas, Manuel et al.**
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Lü, Qing Zhe *see* **Wei, Bo Cheng et al.**, **2005d:62121**
Lui, Kung-Jong (*with* Zhou, Xiao-Hua; Lin, Chii-Dean) Testing equality between two diagnostic procedures in paired-sample ordinal data. (English summary)
Mao, Shi Song *see* **Zeng, Lin Rui et al.**, **2005h:62190**
Meng, Guoming *see* **Zong, Xuping et al.**, **2005c:62128**
Park, Taesung (*with* Lee, Seung-Yeoun) Model diagnostic plots for repeated measures data. (English summary)
Paula, Gilberto A. *see* **Galea Rojas, Manuel et al.**
Víšek, Jan Ámos Durbin-Watson statistic in robust regression. (English summary) **2005h:62189**
Wang, Hai Bin *see* **Zong, Xuping et al.**, **2005c:62128**
Wei, Bo Cheng (*with* Lin, Jin Guan; Lü, Qing Zhe) Developments of the tests for heteroscedasticity or varying dispersion in regression models. (Chinese. English and Chinese summaries) **2005d:62121**
— *see also* **Zong, Xuping et al.**, **2005c:62128** *and* **Fung, Wing Kam et al.**, **2005e:62107**
Yang, Hu (*with* Yang, Ting) Outlier mining based on principal component estimation. (English summary) **2005k:62178**
Yang, Ting *see* **Yang, Hu**, **2005k:62178**
Zeng, Lin Rui (*with* Zhu, Zhong Yi; Mao, Shi Song) Influence analysis and outlier tests for a semiparametric generalized linear model. (Chinese. English and Chinese summaries) **2005h:62190**
Zhang, He Ping[1] *see* **Zhu, Hongtu**, **2005c:62127**
Zhang, Xibin (*with* King, Maxwell L.) Influence diagnostics in generalized autoregressive conditional heteroscedasticity processes. (English summary)
Zhou, Xiao-Hua *see* **Lui, Kung-Jong et al.**
Zhu, Hongtu (*with* Zhang, He Ping[1]) A diagnostic procedure based on local influence (English summary) **2005c:62127**
Zhu, Zhong Yi *see* **Fung, Wing Kam et al.**, **2005e:62107** *and* **Zeng, Lin Rui et al.**, **2005h:62190**
Zong, Xuping (*with* Meng, Guoming; Wang, Hai Bin; Wei, Bo Cheng) Influence analysis on nonlinear measurement error models. (English and Chinese summaries) **2005c:62128**

Items with secondary classifications in 62J20

Arbogast, Patrick G. (*with* Lin, Danyu Y.) Goodness-of-fit methods for matched case-control studies. (English and French summaries)
Caroni, C. Diagnostics for Cox's proportional hazards model. (English summary) (*see* **2005d:62008**)
Duchesne, Pierre On matricial measures of dependence in vector ARCH models with applications to diagnostic checking. (English summary) **2005d:62140**
Hahn, Jinyong (*with* Newey, Whitney K.) Jackknife and analytical bias reduction for nonlinear panel models. (English summary) **2005f:62105**
Hristea, Florentina On the use of MAICE for the detection of outliers in a linear regression model. (English summary) **2005c:62117**
Imon, A. H. M. Rahmatullah (*with* Khan, Md. A. I.) A comparative study on the identification of high leverage points in linear regression. (English summary)
Jajo, Nethal K. A review of robust regression and diagnostic procedures in linear regression. (English summary)
Khan, Md. A. I. *see* **Imon, A. H. M. Rahmatullah**
Lin, Danyu Y. *see* **Arbogast, Patrick G.**
Lin, Haiqun *see* **Zelterman, Daniel**, (**2005a:62015**)
Müller, Peter[2] (*with* Parmigiani, Giovanni; Robert, Christian P.; Rousseau, Judith) Optimal sample size for multiple testing: the case of gene expression microarrays. (English summary)
Nahar, Syfun *see* **Rahman, Mohammad Shafiqur**
Newey, Whitney K. *see* **Hahn, Jinyong**, **2005f:62105**
Ojeda, Mario Miguel *see* **Shi, Lei[2]**, **2005i:62105**
Parmigiani, Giovanni *see* **Müller, Peter[2] et al.**
Peña, Daniel A new statistic for influence in linear regression. (English summary)
Rahman, Mohammad Shafiqur (*with* Nahar, Syfun) Generalized model selection criterion. (English summary)
Robert, Christian P. *see* **Müller, Peter[2] et al.**
Rousseau, Judith *see* **Müller, Peter[2] et al.**
Rousseeuw, Peter J. (*with* Struyf, Anja) Characterizing angular symmetry and regression symmetry. (English summary) **2005g:62094**
Shi, Lei[2] (*with* Ojeda, Mario Miguel) Local influence in multilevel regression for growth curves. (English summary) **2005i:62105**
Struyf, Anja *see* **Rousseeuw, Peter J.**, **2005g:62094**
Zelterman, Daniel (*with* Lin, Haiqun) Diagnostics for the accelerated life time model of survival data. (*see* **2005a:62015**)

62J99 None of the above, but in this section

Cardot, Hervé (*with* Crambes, Christophe; Sarda, Pascal) Estimation spline de quantiles conditionnels pour variables explicatives fonctionnelles. (English and French summaries) [Spline estimation of conditional quantiles for functional covariates] **2005c:62129**

Crambes, Christophe *see* **Cardot, Hervé et al., 2005c:62129**
Sarda, Pascal *see* **Cardot, Hervé et al., 2005c:62129**

Items with secondary classifications in 62J99

Altman, Naomi S. (*with* Villarreal, Julio C.) Self-modelling regression for longitudinal data with time-invariant covariates. (English and French summaries)
Avramidis, Antonios *see* **Zioutas, Georgios**
Blaga, Petru P. Weighted uniform sampling method based on spline functions. (English summary) **2005j:62025**
Branco, J. A. *see* **Oliveira, M. R. et al., (2005c:62006)**
Chen, Colin An adaptive algorithm for quantile regression. (English summary) (*see* **2005c:62006**)
Croux, C. *see* **Oliveira, M. R. et al., (2005c:62006)**
Fekri, M. (*with* Ruiz-Gazen, A.) Robust weighted orthogonal regression in the errors-in-variables model. (English summary) **2005g:62059**
Filzmoser, P. *see* **Oliveira, M. R. et al., (2005c:62006)**
Kim, Jae Kwang Finite sample properties of multiple imputation estimators. (English summary) **2005c:62018**
Le, Huiling Unrolling shape curves. (English summary) **2005f:53036**
Lopes, Heitor S. (*with* Weinert, Wagner R.) EGIPSYS: an enhanced gene expression programming approach for symbolic regression problems. (English summary)
Masoud, Salem A. An efficient method for the multivariate LAD regression and multi-response permutation procedures applied to nature of chemical and overt diabetes. (English summary)
Nahar, Syfun *see* **Rahman, Mohammad Shafiqur**
Oliveira, M. R. (*with* Branco, J. A.; Croux, C.; Filzmoser, P.) Robust redundancy analysis by alternating regression. (English summary) (*see* **2005c:62006**)
Rahman, Mohammad Shafiqur (*with* Nahar, Syfun) Generalized model selection criterion. (English summary)
Ruiz-Gazen, A. *see* **Fekri, M., 2005g:62059**
Villarreal, Julio C. *see* **Altman, Naomi S.**
Weinert, Wagner R. *see* **Lopes, Heitor S.**
Wu, Qun Ying Strong consistency of M-estimators in linear models for $\tilde{\rho}$-mixing samples. (Chinese. English and Chinese summaries) **2005j:62064**
Zioutas, Georgios (*with* Avramidis, Antonios) Deleting outliers in robust regression with mixed integer programming. (English summary)

62Kxx Design of experiments [see also 05Bxx]

Goos, Peter ★ The optimal design of blocked and split-plot experiments. **2005j:62153**

Items listed otherwise than by author

Lecture Notes in Statistics *see* **Goos, Peter, 2005j:62153**

Items with secondary classifications in 62Kxx

Smith, Wendell F. ★ Experimental design for formulation.

62K05 Optimal designs

Aggarwal, M. L. (*with* Deng, Lih-Yuan; Jha, Mithilesh Kumar) Some new residual treatment effects designs for comparing test treatments with a control. (English summary) **2005e:62108**
Al-Shingiti, Arwa M. *see* **Huda, Shahariar**
Atkinson, Anthony C. Some Bayesian optimum designs for response transformation in nonlinear models with nonconstant variance. (English summary) (*see* **2005f:62009**)
Bailey, R. A. (*with* Druilhet, Pierre) Optimality of neighbor-balanced designs for total effects. (English summary) **2005h:62191**
Begun, Alexander Zaharovich (*with* Seidel, Wilfried) A relaxation procedure for calculating (Γ-)minimax optimal designs. (English summary) **2005h:62192**
Biedermann, S. (*with* Dette, Holger; Pepelyshev, Andrey) Maximin optimal designs for a compartmental model. (English summary) **2005g:62132**
Biswas, Atanu (*with* Dewanji, Anup) Scheduling optimal examination times in a simple illness-death model. (English summary)
— *see also* **Dewanji, Anup**
Bogacka, Barbara (*with* Wright, Francis) Non-linear design problem in a chemical kinetic model with non-constant error variance. (English summary)
— *see also* **Uciński, Dariusz, (2005f:62009)**
Bose, Mausumi (*with* Dey, Aloke) Some small and efficient cross-over designs under a nonadditive model. (English summary) **2005d:62122**
Carrière, K. C. *see* **Mandal, Saumendranath et al.**
Ceranka, Bronisław (*with* Graczyk, Małgorzata) A-optimal chemical balance weighing design with correlated errors. (English summary) **2005d:62123**
Chaloner, Kathryn *see* **Han, Cong, 2005h:62197** *and* **Fan, Shenghua Kelly**
Chan, L. Y. *see* **Zhang, Chong Qi et al., 2005m:62141**
Chang, Fu-Chuen D-optimal designs for weighted polynomial regression—a functional-algebraic approach. (English summary) **2005j:62154**
Das, Kalyan (*with* Mandal, Nripes K.; Sinha, Bikas K.) Optimal experimental designs for models with covariates. (English summary) **2005b:62159**
Das, Rabindra Nath[3] Construction and analysis of robust second order rotatable designs. (English summary)
Deng, Lih-Yuan *see* **Aggarwal, M. L. et al., 2005e:62108**
Dette, Holger (*with* Melas, V. B.; Pepelyshev, Andrey) Optimal designs for a class of nonlinear regression models. (English summary) **2005h:62193**
— *see also* **Biedermann, S. et al., 2005g:62132**
Dewanji, Anup (*with* Biswas, Atanu) Optimal scheduling of intermediate examination times in simple illness-death model. (English summary)
— *see also* **Biswas, Atanu**
Dey, Aloke *see* **Bose, Mausumi, 2005d:62122**
Diniz, Carlos Alberto Ribeiro *see* **Gomes, Paulo Leonardo Sirimarco**
Donev, Alexander N. Design of experiments in the presence of errors in factor levels. (English summary)
Druilhet, Pierre Conditions for optimality in experimental designs. (English summary) **2005h:62194**
— *see also* **Bailey, R. A., 2005h:62191**
Fan, Shenghua Kelly (*with* Chaloner, Kathryn) Optimal designs and limiting optimal designs for a trinomial response. (English summary)
Fang, Zhide (*with* Wiens, Douglas P.) Robust regression designs for approximate polynomial models. (English summary) **2005c:62130**
— D-optimal designs for weighted polynomial regression. (English summary) **2005f:62115**
— (*with* Wiens, Douglas P.) Bayesian minimally supported D-optimal designs for an exponential regression model. (English summary) **2005b:62160**
Fedorov, Valerii V. (*with* Leonov, Sergei L.) Optimal designs for regression models with forced measurements at baseline. (English summary) **2005g:62133**
Filipiak, K. (*with* Markiewicz, Augustyn) Optimality of type I orthogonal arrays for general interference model with correlated observations. (English summary) **2005h:62195**
— (*with* Markiewicz, Augustyn) Optimality and efficiency of circular neighbor balanced designs for correlated observations. (English summary)
Flournoy, N. *see* **Rabie, H. S., 2005h:62200**
Garcet-Rodríguez, Sandra A. *see* **López-Fidalgo, Jesús, 2005g:62134**
Gauchi, J.-P. (*with* Pázman, Andrej) Small size designs in nonlinear models computed by stochastic optimization. (English summary) **2005h:62196**
Gerville-Reache, Léo An example of optimal design in accelerated experiments. (English summary) (*see* **2005d:62008**)
Gomes, Paulo Leonardo Sirimarco (*with* Diniz, Carlos Alberto Ribeiro) Approximately A-optimal solution in mixture experiments involving process variables in orthogonal blocks. (Portuguese. English and Portuguese summaries)
Graczyk, Małgorzata *see* **Ceranka, Bronisław, 2005d:62123**
Graßhoff, Ulrike (*with* Großmann, Heiko; Holling, Heinz; Schwabe, Rainer) Optimal designs for main effects in linear paired comparison models. (English summary) **2005c:62131**
Großmann, Heiko *see* **Graßhoff, Ulrike et al., 2005c:62131**
Guan, Y. N. *see* **Zhang, Chong Qi et al., 2005m:62141**
Han, Cong (*with* Chaloner, Kathryn) A note on optimal designs for two or more treatment groups. (English summary) **2005h:62197**
Harman, Radoslav A method how to delete points which do not support a D-optimal design. (English summary) **2005e:62109**
— Lower bounds on efficiency ratios based on Φ_p-optimal designs. (English summary) **2005j:62155**
— Minimal efficiency of designs under the class of orthogonally invariant information criteria. (English summary) **2005h:62198**
Hedayat, A. S. (*with* Yang, Min[2]) Universal optimality for selected crossover designs. (English summary) **2005c:62132**
— (*with* Zhong, J.; Nie, Lei[2]) Optimal and efficient designs for 2-parameter nonlinear models. (English summary) **2005a:62170**
Holling, Heinz *see* **Graßhoff, Ulrike et al., 2005c:62131**
Hornišová, Klára (*with* Pázman, Andrej) Optimum design of nonlinear experiments based on linear Bayesian estimators. (English summary) **2005d:62124**
Hsu, Yung-Feng (*with* Ting, Chao-Ping) A-optimal and efficient diallel cross experiments for comparing test treatments with a control. (English summary)
Huda, Shahariar (*with* Al-Shingiti, Arwa M.) Second-order E-minimax optimal designs for estimating slopes over spherical regions: performance under model variation. (English summary)
— (*with* Al-Shingiti, Arwa M.) On second-order A-, D- and E-minimax designs for estimating slopes in extrapolation and restricted interpolation regions. (English summary)
Hyodo, Yoshifumi *see* **Kuwada, Masahide et al., 2005j:62156**
Imhof, Lorens A. (*with* Song, Dale; Wong, Weng Kee) Optimal design of experiments with anticipated pattern of missing observations. (English summary)
Jacroux, Mike Determination and construction of A-optional designs for comparing two sets of treatments. (English summary) [Determination and construction of A-optimal designs for comparing two sets of treatments] **2005a:62171**
— Maximal rank minimum aberration blocked regular 2^{m-k} fractional factorial designs. (English summary)
Jensen, D. R. Condition numbers and D-efficiency. (English summary) **2005a:62172**
Jha, Mithilesh Kumar *see* **Aggarwal, M. L. et al., 2005e:62108**
John, J. A. *see* **Wright, C. L. et al.**
King, C. Y. Joy (*with* Wong, Weng Kee) Optimal designs for the power logistic model. (English summary)
Kitsos, C. P. *see* **Müller, Christine H., 2005i:62110**
Klein, Thomas Optimal designs for second-degree Kronecker model mixture experiments. (English summary) **2005c:62133**
— Invariant symmetric block matrices for the design of mixture experiments. (English summary) **2005e:62110**
Krylova, L. A. *see* **Melas, V. B.**
Kuwada, Masahide (*with* Hyodo, Yoshifumi; Yumiba, Hiromu) GA-optimal balanced fractional 2^m factorial designs of resolution $R^*(\{0,1\}|3)$. (English summary) **2005j:62156**
Lau, Tai-Shing *see* **Zhang, Chong Qi et al., 2005m:62141**
Leonov, Sergei L. *see* **Fedorov, Valerii V., 2005g:62133**
Li, Kim Hung *see* **Zhang, Chong Qi et al., 2005m:62141**
López-Fidalgo, Jesús (*with* Garcet-Rodríguez, Sandra A.) Optimal experimental designs when some independent variables are not subject to control. (English summary) **2005g:62134**
— *see also* **Trandafir, C., 2005h:62201** *and* **Tommasi, Chiara**
Mandal, Nripes K. *see* **Das, Kalyan et al., 2005b:62159**
Mandal, Saumendranath (*with* Torsney, B.; Carrière, K. C.) Constructing optimal designs with constraints. (English summary)
Markiewicz, Augustyn *see* **Filipiak, K., 2005h:62195**
Martínez, Ignacio *see* **Rodríguez Torreblanca, C. et al., 2005g:62135** *and* **2005k:62179**

Melas, V. B. (*with* Krylova, L. A.) On the functional approach to the study of E-optimal designs for polynomial regression. (English summary)
— *see also* **Dette, Holger et al., 2005h:62193**
Morgan, J. P. *see* **Reck, Brian**
Müller, Christine H. (*with* Kitsos, C. P.) Optimal design criteria based on tolerance regions. (English summary) **2005i:62110**
Müller, Werner G. Uniformly optimal designs: a spatial example. (English and Spanish summaries)
Nie, Lei[2] *see* **Hedayat, A. S. et al., 2005a:62170**
Ortiz, Isabel *see* **Rodríguez Torreblanca, C. et al., 2005f:62117; 2005g:62135** *and* **2005k:62179**
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Pepelyshev, Andrey *see* **Biedermann, S. et al., 2005g:62132** *and* **Dette, Holger et al., 2005h:62193**
Pettersson, Hans Optimal design in average for inference in generalized linear models. **2005h:62199**
Ponce de Leon, A. *see* **Rodrigues Pinto, E., (2005f:62009)**
Pronzato, Luc Designing from a sequence of I.I.D. experiments. (English summary) **2005a:62173**
— A minimax equivalence theorem for optimum bounded design measures. (English summary) **2005f:62116**
Rabie, H. S. (*with* Flournoy, N.) Optimal designs for contingent response models. (English summary) **2005h:62200**
Reck, Brian (*with* Morgan, J. P.) Optimal design in irregular BIBD settings. (English summary)
Rempała, Grzegorz A. (*with* Srivastav, Sudesh) Minimum variance rectangular designs for U-statistics. (English summary) **2005a:62174**
Rodrigues Pinto, E. (*with* Ponce de Leon, A.) Bayesian D-optimal designs for generalized linear models with a varying dispersion parameter. (English summary) (*see* **2005f:62009**)
Rodríguez Torreblanca, C. (*with* Ortiz, Isabel; Martínez, Ignacio) L-optimum designs in multi-factor models with heteroscedastic errors. (English summary) **2005g:62135**
— (*with* Ortiz, Isabel; Martínez, Ignacio) Some results on optimality in models with heteroscedastic errors from partial optimum designs. (English summary) **2005k:62179**
— (*with* Ortiz, Isabel) D-optimum designs in multi-factor models with heteroscedastic errors. (English summary) **2005f:62117**
Schwabe, Rainer *see* **Graßhoff, Ulrike et al., 2005c:62131**
Seidel, Wilfried *see* **Begun, Alexander Zaharovich, 2005h:62192**
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Song, Dale *see* **Imhof, Lorens A. et al.**
Srivastav, Sudesh *see* **Rempała, Grzegorz A., 2005a:62174**
Studden, W. J. Elfving's theorem revisited. (English summary) **2005j:62157**
Tack, Lieven (*with* Vandebroek, Martina) Trend-resistant and cost-efficient cross-over designs for mixed models. (English summary)
Ting, Chao-Ping *see* **Hsu, Yung-Feng**
Tommasi, Chiara (*with* López-Fidalgo, Jesús) Minimax designs for a parametrization of binary response models. (English summary)
Torsney, B. *see* **Mandal, Saumendranath et al.**
Trandafir, C. (*with* López-Fidalgo, Jesús) Locally optimal designs for an extension of the Michaelis-Menten model. (English summary) **2005b:62201**
Tsai, Min-Hsiao (*with* Zen, Mei-Mei) Criterion-robust optimal designs for model discrimination and parameter estimation: multivariate polynomial regression case. (English summary) **2005a:62175**
— *see also* **Zen, Mei-Mei**
Tsai, Yu-Ling (*with* Zhou, Julie) Discrete M-robust designs for regression models. (English summary)
Uciński, Dariusz (*with* Bogacka, Barbara) T-optimum designs for multiresponse dynamic heteroscedastic models. (English summary) (*see* **2005f:62009**)
— (*with* Bogacka, Barbara) T-optimum designs for discrimination between two multiresponse dynamic models. (English summary)
Vandebroek, Martina *see* **Tack, Lieven**
Whitaker, D. *see* **Wright, C. L. et al.**
Wiens, Douglas P. Robust allocation schemes for clinical trials with prognostic factors. (English summary) **2005f:62118**
— *see also* **Fang, Zhide, 2005b:62160** *and* **2005c:62130**
Williams, E. R. *see* **Wright, C. L. et al.**
Wong, Weng Kee *see* **Imhof, Lorens A. et al.** *and* **King, C. Y. Joy**
Wright, C. L. (*with* John, J. A.; Whitaker, D.; Williams, E. R.) Construction of resolvable row-column designs based on contractions. (English summary)
Wright, Francis *see* **Bogacka, Barbara**
Wu, Jing-Wen *see* **Yue, Rong-Xian, 2005h:62202**
Yanagisawa, Yukio Scaled density models for binary response data and their D- and D_s-optimal designs. (English summary)
Yang, Min[2] *see* **Hedayat, A. S., 2005c:62132**
Yue, Rong-Xian (*with* Wu, Jing-Wen) U-type and factorial designs for nonparametric Bayesian regression. (English summary) **2005h:62202**
Yumiba, Hiromu *see* **Kuwada, Masahide et al., 2005j:62156**
Zen, Mei-Mei (*with* Tsai, Min-Hsiao) Criterion-robust optimal designs for model discrimination and parameter estimation in Fourier regression models. (English summary)
— *see also* **Tsai, Min-Hsiao, 2005a:62175**
Zhang, Chong Qi (*with* Chan, L. Y.; Guan, Y. N.; Li, Kim Hung; Lau, Tai-Shing) Optimal designs for an additive quadratic mixture model involving the amount of mixture. (English summary) **2005m:62141**
Zhong, J. *see* **Hedayat, A. S. et al., 2005a:62170**
Zhou, Julie *see* **Tsai, Yu-Ling**

Items with secondary classifications in 62K05

Aggarwal, M. L. (*with* Singh, Poonam; Gupta, Nidhi[1]) Orthogonal block designs in two blocks for second degree K-model. (English summary) **2005b:62161**
Ai, Mingyao (*with* Zhang, Run-Chu) Theory of optimal blocking of nonregular factorial designs. (English and French summaries) **2005a:62178**
— (*with* Zhang, Run-Chu) s^{n-m} designs containing clear main effects or clear two-factor interactions. (English summary) **2005h:62204**
— (*with* Zhang, Run-Chu) Multistratum fractional factorial split-plot designs with minimum aberration and maximum estimation capacity. (English summary) **2005j:62158**
Atkinson, Anthony C. Adaptive biased-coin designs for clinical trials with several treatments. (English summary)
Banerjee, Shakti *see* **Rai, Shivani et al., 2005i:62111** *and* **2005i:62112**
Begg, Colin B. *see* **Satagopan, Jaya M. et al.**
Belforte, Gustavo (*with* Gay, Paolo) Optimal worst case estimation for LPV-FIR models with bounded errors. (English summary) **2005f:93160**
Berger, Martijn P. F. (*with* Tan, Frans E. S.) Robust designs for linear mixed effects models. (English summary)
Biedermann, S. (*with* Dette, Holger) A note on maximin and Bayesian D-optimal designs in weighted polynomial regression. (English summary) **2005a:62150**
Biswas, Atanu (*with* Mandal, Saumendranath) Optimal adaptive designs in phase III clinical trials for continuous responses with covariates. (English summary) (*see* **2005f:62009**)
Bulutoglu, Dursun A. (*with* Cheng, Ching-Shui) Construction of $E(s^2)$-optimal supersaturated designs. (English summary) **2005h:62205**
Burgess, Leonie (*with* Street, Deborah J.) Optimal designs for choice experiments with asymmetric attributes. (English summary) **2005m:62140**
Causeur, David Optimal sampling from concomitant variables for regression problems. (English summary) **2005h:62037**
Ceranka, Bronisław (*with* Graczyk, Małgorzata) Optimum chemical balance weighing designs. (English summary) **2005c:62134**
Chai, Feng-Shun (*with* Das, Ashish D.; Dey, Aloke) Block designs for symmetric parallel line assays with block size odd. (English summary) **2005f:62119**
— *see also* **Liao, Chen-Tuo, 2005i:62114**
Chan, B. S. P. *see* **Martin, Richard John et al.**
Cheng, Ching-Shui *see* **Bulutoglu, Dursun A., 2005h:62205**
Cheng, Shao-Wei *see* **Xu, Hongquan et al.**
Das, Ashish D. (*with* Dey, Aloke) Designs for diallel cross experiments with specific combining abilities. (English summary) **2005f:62120**
— *see also* **Chai, Feng-Shun et al., 2005f:62119**
Dette, Holger (*with* O'Brien, Timothy E.) Efficient experimental design for the Behrens-Fisher problem with application to bioassay. (English summary) **2005b:62165**
— On robust and efficient designs for risk estimation in epidemiological studies. (English summary) **2005c:62196**
— (*with* Studden, W. J.) A note on the maximization of matrix valued Hankel determinants with applications. (English summary) **2005i:42038**
— *see also* **Biedermann, S., 2005a:62150**
Dey, Aloke *see* **Chai, Feng-Shun et al., 2005f:62119** *and* **Das, Ashish D., 2005f:62120**
Eccleston, J. A. *see* **Martin, Richard John et al.**
Fang, Kai-Tai (*with* Zhang, Aijun) Minimum aberration majorization in non-isomorphic saturated designs. (English summary)
Fletcher, Roderick J. (*with* Koukouvinos, Christos; Seberry, Jennifer) New skew-Hadamard matrices of order $4 \cdot 59$ and new D-optimal designs of order $2 \cdot 59$. (English summary) **2005d:05034**
Gay, Paolo *see* **Belforte, Gustavo, 2005f:93160**
Georgiou, Stelios (*with* Koukouvinos, Christos; Seberry, Jennifer) Generalized orthogonal designs. (English summary) **2005c:05038**
Gerami, A. (*with* Lewis, Susan M.) Finding efficient block design for estimating specific treatment contrasts. (English summary)
Ginebra, Josep Two-armed bandit strategies that discount past and future. (English summary)
Glickman, Mark E. (*with* Jensen, Shane T.) Adaptive paired comparison design. (English summary)
Graczyk, Małgorzata *see* **Ceranka, Bronisław, 2005c:62134**
Gupta, Nidhi[1] *see* **Aggarwal, M. L. et al., 2005b:62161**
Han, Dong *see* **Kuwada, Masahide et al., 2005c:62138**
Holzmann, W. H. (*with* Kharaghani, Hadi; Seberry, Jennifer; Tayfeh-Rezaie, B.) On orthogonal designs in order 48. (English summary) **2005h:05031**
Hyodo, Yoshifumi *see* **Kuwada, Masahide et al., 2005c:62138**
Jacroux, Mike A modified minimum aberration criterion for selecting regular 2^{m-k} fractional factorial designs. (English summary)
Jensen, Shane T. *see* **Glickman, Mark E.**
Kaart, Tanel About the data designs for estimation of genetic parameters in animal breeding studies. (English summary)
Kageyama, Sanpei *see* **Rai, Shivani et al., 2005i:62111** *and* **2005i:62112**
Kharaghani, Hadi *see* **Holzmann, W. H. et al., 2005h:05031**
Koukouvinos, Christos (*with* Lappas, E.; Mitrouli, M.) On the unique pivot structure for a Hadamard matrix of order 12. (English summary) **2005b:05047**
— *see also* **Georgiou, Stelios et al., 2005c:05038** *and* **Fletcher, Roderick J. et al., 2005d:05034**
Kuwada, Masahide (*with* Hyodo, Yoshifumi; Han, Dong) Characterization of balanced fractional 2^m factorial designs of resolution $R^*(\{1\}|3)$ and GA-optimal designs. (English summary) **2005c:62138**
Lappas, E. *see* **Koukouvinos, Christos et al., 2005b:05047**
Lewis, Susan M. *see* **Gerami, A.**
Li, Peng-Fei (*with* Liu, Min-Qian; Zhang, Run-Chu) Some theory and the construction of mixed-level supersaturated designs. (English summary) **2005h:62207**
Liao, Chen-Tuo (*with* Chai, Feng-Shun) Partially replicated two-level fractional factorial designs. (English and French summaries) **2005i:62114**
Liu, Min-Qian *see* **Li, Peng-Fei et al., 2005h:62207**
Mandal, Saumendranath *see* **Biswas, Atanu, (2005f:62009)** *and* **Torsney, B., (2005f:62009)**
Marti, Kurt ★ Stochastic optimization methods. **2005h:90003**
Martin, Richard John (*with* Eccleston, J. A.; Chan, B. S. P.) Efficient factorial experiments when the data are spatially correlated. (English summary)
Melas, V. B. On a functional approach to locally optimal designs. (English summary) (*see*

2005f:62009)
Mitrouli, M. *see* **Koukouvinos, Christos et al., 2005b:05047**
Molchanov, Ilya S. (*with* Zuev, S. A.) Optimisation in space of measures and optimal design. (English summary) **2005h:49105**
Nguyen, Nam-Ky A modified cyclic-coordinate exchange algorithm as illustrated by the construction of minimum-point second-order designs. (English summary) (*see* **2005a:62014**)
O'Brien, Timothy E. *see* **Dette, Holger, 2005b:62165**
Patan, Maciej ★ Optimal observation strategies for parameter estimation of distributed systems. (Polish summary) **2005i:62001**
Pázman, Andrej (*with* Pronzato, Luc) Simultaneous choice of design and estimator in nonlinear regression with parameterized variance. (English summary) (*see* **2005f:62009**)
Petkau, A. John Optimal group sequential designs for the Anscombe-Colton model. (English summary) (*see* **2005m:62007**)
Pronzato, Luc *see* **Pázman, Andrej, (2005f:62009)**
Rai, Shivani (*with* Banerjee, Shakti; Kageyama, Sanpei) Some constructions of nested balanced equireplicate block designs. (English summary) **2005i:62111**
— (*with* Banerjee, Shakti; Kageyama, Sanpei) Corrections on a paper: "Some constructions of nested balanced equireplicate block designs" [Discuss. Math. Probab. Stat. **23** (2003), no. 1, 45–68; MR2069887 (2005i:62111)]. **2005i:62112**
Ruggoo, Arvind (*with* Vandebroek, Martina) Bayesian sequential $\mathscr{D}$-$\mathscr{D}$ optimal model-robust designs. (English summary)
Satagopan, Jaya M. (*with* Venkatraman, E. S.; Begg, Colin B.) Two-stage designs for gene-desease association studies with sample size constraints. (English summary)
Seberry, Jennifer *see* **Georgiou, Stelios et al., 2005c:05038**; **Fletcher, Roderick J. et al., 2005d:05034** *and* **Holzmann, W. H. et al., 2005h:05031**
Singh, Poonam *see* **Aggarwal, M. L. et al., 2005b:62161**
Street, Deborah J. *see* **Burgess, Leonie, 2005m:62140**
Studden, W. J. *see* **Dette, Holger, 2005i:42038**
Talukder, M. Hanif *see* **Uddin, Nizam, 2005k:05038**
Tan, Frans E. S. *see* **Berger, Martijn P. F.**
Tayfeh-Rezaie, B. *see* **Holzmann, W. H. et al., 2005h:05031**
Torsney, B. (*with* Mandal, Saumendranath) Multiplicative algorithms for constructing optimizing distributions: further developments. (English summary) (*see* **2005f:62009**)
Uddin, Nizam (*with* Talukder, M. Hanif) Constructions of some classes of neighbor balanced designs. (English summary) **2005k:05038**
Vandebroek, Martina *see* **Ruggoo, Arvind**
Venkatraman, E. S. *see* **Satagopan, Jaya M. et al.**
Wu, C. F. Jeff *see* **Xu, Hongquan et al.**
Wynn, Henry P. Maximum entropy sampling and general equivalence theory. (English summary) **2005g:62023**
Xu, Hongquan (*with* Cheng, Shao-Wei; Wu, C. F. Jeff) Optimal projective three-level designs for factor screening and interaction detection. (English summary)
Zhang, Aijun *see* **Fang, Kai-Tai**
Zhang, Run-Chu *see* **Ai, Mingyao, 2005a:62178**; **2005h:62204**; **2005j:62158** *and* **Li, Peng-Fei et al., 2005h:62207**
Zuev, S. A. *see* **Molchanov, Ilya S., 2005h:49105**

62K10 Block designs

Aggarwal, M. L. (*with* Singh, Poonam; Gupta, Nidhi[1]) Orthogonal block designs in two blocks for second degree K-model. (English summary) **2005b:62161**
Banerjee, Shakti *see* **Rai, Shivani et al., 2005i:62111** *and* **2005i:62112**
Bhar, Lalmohan (*with* Dey, Amitava) Triallel-cross block designs that are robust against missing observations. (English summary) **2005a:62176**
Caliński, Tadeusz (*with* Kageyama, Sanpei) A unified terminology in block designs. (English summary)
Ceranka, Bronisław (*with* Graczyk, Małgorzata) About the chemical balance weighing designs with correlated errors. (English summary)
Chai, Feng-Shun (*with* Das, Ashish D.; Dey, Aloke) Block designs for symmetric parallel line assays with block size odd. (English summary) **2005f:62119**
Choi, Kuey Chung (*with* Gupta, Sudhir; Kageyama, Sanpei) Designs for diallel crosses for test versus control comparisons. (English summary) **2005a:62177**
Corrente, José Eduardo *see* **Pontes, Antonio Carlos Fonseca**
Das, Ashish D. (*with* Dey, Aloke) Designs for diallel cross experiments with specific combining abilities. (English summary) **2005f:62120**
— *see also* **Chai, Feng-Shun et al., 2005f:62119**
Dey, Aloke *see* **Chai, Feng-Shun et al., 2005f:62119** *and* **Das, Ashish D., 2005f:62120**
Dey, Amitava *see* **Bhar, Lalmohan, 2005a:62176**
Fang, Kai-Tai (*with* Ge, Gen-Nian; Liu, Min-Qian; Qin, Hong[2]) Construction of uniform designs via super-simple resolvable t-designs. (English summary)
Ganjali, Mojtaba *see* **Hashemi, H. Jahani et al.**
Ge, Gen-Nian *see* **Fang, Kai-Tai et al.**
Gerami, A. (*with* Lewis, Susan M.) Finding efficient block design for estimating specific treatment contrasts. (English summary)
Graczyk, Małgorzata *see* **Ceranka, Bronisław**
Gupta, Nidhi[1] *see* **Aggarwal, M. L. et al., 2005b:62161**
Gupta, Sudhir *see* **Choi, Kuey Chung et al., 2005a:62177**
Hashemi, H. Jahani (*with* Kazemnejad, A.; Ganjali, Mojtaba) Carry-over effect in 2×2 cross-over trials. (English summary)
Jaggi, Seema *see* **Tomar, Jitendra Singh et al.**
Kageyama, Sanpei (*with* Sinha, Kishore) Some patterned constructions of rectangular designs. (English summary) **2005b:62162**
— *see also* **Choi, Kuey Chung et al., 2005a:62177**; **Rai, Shivani et al., 2005i:62111**; **2005i:62112** *and* **Caliński, Tadeusz**
Kazemnejad, A. *see* **Hashemi, H. Jahani et al.**
Lewis, Susan M. *see* **Gerami, A.**
Liu, Min-Qian *see* **Fang, Kai-Tai et al.**
Pontes, Antonio Carlos Fonseca (*with* Corrente, José Eduardo) The use of nonparametric contrasts in one-way layouts and random block designs. (English summary)
Qin, Hong[2] *see* **Fang, Kai-Tai et al.**
Rai, Shivani (*with* Banerjee, Shakti; Kageyama, Sanpei) Some constructions of nested balanced equireplicate block designs. (English summary) **2005i:62111**
— (*with* Banerjee, Shakti; Kageyama, Sanpei) Corrections on a paper: "Some constructions of nested balanced equireplicate block designs" [Discuss. Math. Probab. Stat. **23** (2003), no. 1, 45–68; MR2069887 (2005i:62111)]. **2005i:62112**
Singh, Poonam *see* **Aggarwal, M. L. et al., 2005b:62161**
Sinha, Kishore *see* **Kageyama, Sanpei, 2005b:62162**
Tomar, Jitendra Singh (*with* Jaggi, Seema; Varghese, Cini) On totally balanced block designs for competition effects. (English summary)
Varghese, Cini *see* **Tomar, Jitendra Singh et al.**

Items with secondary classifications in 62K10

Ai, Mingyao (*with* Zhang, Run-Chu) Theory of minimum aberration blocked regular mixed factorial designs. (English summary) **2005h:62203**
Bailey, R. A. (*with* Druilhet, Pierre) Optimality of neighbor-balanced designs for total effects. (English summary) **2005h:62191**
Bulutoglu, Dursun A. (*with* Cheng, Ching-Shui) Construction of $E(s^2)$-optimal supersaturated designs. (English summary) **2005h:62205**
Cheng, Ching-Shui *see* **Bulutoglu, Dursun A., 2005h:62205**
Cheng, Shao-Wei (*with* Li, William; Ye, Kenny Q.) Blocked nonregular two-level factorial designs. (English summary)
van Dam, Edwin R. (*with* Spence, Edward) Combinatorial designs with two singular values. I. Uniform multiplicative designs. (English summary) **2005k:05050**
— (*with* Spence, Edward) Combinatorial designs with two singular values. II. Partial geometric designs. (English summary) **2005k:05051**
Das, Kalyan (*with* Mandal, Nripes K.; Sinha, Bikas K.) Optimal experimental designs for models with covariates. (English summary) **2005b:62159**
Desu, M. M. (*with* Raghavarao, D.) ★ Nonparametric statistical methods for complete and censored data. **2005d:62003**
Druilhet, Pierre *see* **Bailey, R. A., 2005h:62191**
Fang, Kai-Tai *see* **Qin, Hong[2], 2005f:62122**
Garrido, José *see* **Li, Shuanming, 2005d:91069**
Hayter, Anthony J. *see* **Tamhane, Ajit C., (2005h:62008)**
Holzmann, W. H. (*with* Kharaghani, Hadi; Seberry, Jennifer; Tayfeh-Rezaie, B.) On orthogonal designs in order 48. (English summary) **2005h:05031**
Jacroux, Mike Determination and construction of A-optional designs for comparing two sets of treatments. (English summary) [Determination and construction of A-optimal designs for comparing two sets of treatments] **2005a:62171**
— Maximal rank minimum aberration blocked regular 2^{m-k} fractional factorial designs. (English summary)
Jeisobers, T. *see* **Lal, Krishan, 2005h:62290**
Jimbo, Masakazu *see* **Kuriki, Shinji et al., 2005j:62160**
Kageyama, Sanpei *see* **Mohan, R. N. et al.**
Kharaghani, Hadi *see* **Holzmann, W. H. et al., 2005h:05031**
Koukouvinos, Christos (*with* Stylianou, S.) Optimal multi-level supersaturated designs constructed from linear and quadratic functions. (English summary) **2005c:62137**
Kuriki, Shinji (*with* Mejza, Iwona; Jimbo, Masakazu; Mejza, Stanisław; Ozawa, Kazuhiro[2]) Resolvable semi-balanced incomplete split-block designs. (English summary) **2005j:62160**
Lal, Krishan (*with* Jeisobers, T.) Robustness of diallel cross designs against the loss of any number of observations (crosses) in a block. (English and Hindi summaries) **2005h:62290**
Li, Shuanming (*with* Garrido, José) On ruin for the Erlang(n) risk process. (English summary) **2005d:91069**
Li, William *see* **Cheng, Shao-Wei et al.**
Mandal, Nripes K. *see* **Das, Kalyan et al., 2005b:62159**
McClure, John *see* **Wit, Ernst, 2005k:62002**
Mejza, Iwona *see* **Kuriki, Shinji et al., 2005j:62160**
Mejza, Stanisław *see* **Kuriki, Shinji et al., 2005j:62160**
Mohan, R. N. (*with* Kageyama, Sanpei; Nair, M. M.) On a characterization of symmetric balanced incomplete block designs. (English summary)
Nair, M. M. *see* **Mohan, R. N. et al.**
Ozawa, Kazuhiro[2] *see* **Kuriki, Shinji et al., 2005j:62160**
Prescott, Philip A class of designs for mixture experiments based on augmented pairs. (English summary)
Qin, Hong[2] (*with* Fang, Kai-Tai) Discrete discrepancy in factorial designs. (English summary) **2005f:62122**
Raghavarao, D. *see* **Desu, M. M., 2005d:62003**
Rempała, Grzegorz A. (*with* Srivastav, Sudesh) Minimum variance rectangular designs for U-statistics. (English summary) **2005a:62174**
Seberry, Jennifer *see* **Holzmann, W. H. et al., 2005h:05031**
Sinha, Bikas K. *see* **Das, Kalyan et al., 2005b:62159**
Spence, Edward *see* **van Dam, Edwin R., 2005k:05050** *and* **2005k:05051**
Srivastav, Sudesh *see* **Rempała, Grzegorz A., 2005a:62174**
Stylianou, S. *see* **Koukouvinos, Christos, 2005c:62137**
Talukder, M. Hanif *see* **Uddin, Nizam, 2005k:05038**
Tamhane, Ajit C. (*with* Hayter, Anthony J.) Comparing variances of several measurement methods using a randomized block design with repeat measurements: a case study. (English summary) (*see* **2005h:62008**)
Tayfeh-Rezaie, B. *see* **Holzmann, W. H. et al., 2005h:05031**
Uddin, Nizam (*with* Talukder, M. Hanif) Constructions of some classes of neighbor balanced designs. (English summary) **2005k:05038**
Wang, Pe Cheng Designing two-level fractional factorial experiments in blocks of size two. (English summary)
Wit, Ernst (*with* McClure, John) ★ Statistics for microarrays. **2005k:62002**
Ye, Kenny Q. *see* **Cheng, Shao-Wei et al.**
Zhang, Run-Chu *see* **Ai, Mingyao, 2005h:62203**

62K15 Factorial designs

Aggarwala, Rita *see* **Chowdhury, Abdul H.**

Ai, Mingyao (*with* Zhang, Run-Chu) Theory of optimal blocking of nonregular factorial designs. (English and French summaries) **2005a:62178**

— (*with* Zhang, Run-Chu) Theory of minimum aberration blocked regular mixed factorial designs. (English summary) **2005h:62203**

— (*with* Zhang, Run-Chu) s^{n-m} designs containing clear main effects or clear two-factor interactions. (English summary) **2005h:62204**

— (*with* Zhang, Run-Chu) Multistratum fractional factorial split-plot designs with minimum aberration and maximum estimation capacity. (English summary) **2005j:62158**

Al-Mouel, Abdul-Hussein Saber Nested repeated measures model sufficiency and estimation. (English and Chinese summaries) **2005g:62136**

Basso, D. (*with* Salmaso, L.; Evangelaras, H.; Koukouvinos, Christos) Nonparametric testing for main effects on inequivalent designs. (English summary) (*see* **2005f:62009**)

Beder, Jay H. On the definition of effects in fractional factorial designs. (English summary) **2005m:62142**

Bulutoglu, Dursun A. (*with* Cheng, Ching-Shui) Construction of $E(s^2)$-optimal supersaturated designs. (English summary) **2005h:62205**

Butler, Neil A. Minimum aberration construction results for nonregular two-level fractional factorial designs. (English summary) **2005j:62159**

— Minimum G_2-aberration properties of two-level foldover designs. (English summary) **2005a:62179**

— Construction of two-level split-lot fractional factorial designs for multistage processes. (English summary)

— Classification of efficient two-level fractional factorial designs of resolution IV or more. (English summary)

Caboara, Massimo (*with* Robbiano, Lorenzo) Families of estimable terms. (English summary) **2005b:62163**

Ceranka, Bronisław (*with* Graczyk, Małgorzata) Optimum chemical balance weighing designs. (English summary) **2005c:62134**

— (*with* Graczyk, Małgorzata) Optimum chemical balance weighing design with diagonal matrix of errors based on balanced block designs. (English summary)

— (*with* Graczyk, Małgorzata) Optimum chemical balance weighing designs with diagonal variance-covariance matrix of errors. (English summary) **2005h:62206**

Chai, Feng-Shun *see* **Liao, Chen-Tuo, 2005i:62114**

Chatterjee, Kashinath (*with* Fang, Kai-Tai; Qin, Hong[2]) Uniformity in factorial designs with mixed levels. (English summary) **2005i:62113**

Cheng, Ching-Shui *see* **Bulutoglu, Dursun A., 2005h:62205**

Cheng, Shao-Wei (*with* Ye, Kenny Q.) Geometric isomorphism and minimum aberration for factorial designs with quantitative factors. (English summary) **2005f:62121**

— (*with* Li, William; Ye, Kenny Q.) Blocked nonregular two-level factorial designs. (English summary)

— *see also* **Xu, Hongquan et al.**

Chowdhury, Abdul H. (*with* Aggarwala, Rita) Identification of censored response data in a multivariate experiment. (English summary)

Das, Ashish D. (*with* Dey, Aloke) Optimal main effect plans with non-orthogonal blocks. (English summary)

Dean, Angela M. *see* **Russell, K. G. et al.**

Dey, Aloke *see* **Das, Ashish D.**

Evangelaras, H. (*with* Kolaiti, E.; Koukouvinos, Christos) Regular fractional factorial designs: resolution, defining relations and blocking via coding theory. (English summary)

— (*with* Koukouvinos, Christos) Statistical criteria for evaluating fractional factorial designs. (English summary)

— (*with* Koukouvinos, Christos) Projections of Plackett and Burman designs with good statistical properties. (English summary)

— (*with* Koukouvinos, Christos) On generalized projectivity of two-level screening designs. (English summary) **2005c:62135**

— *see also* **Basso, D. et al., (2005f:62009)**

Fang, Kai-Tai (*with* Zhang, Aijun) Minimum aberration majorization in non-isomorphic saturated designs. (English summary)

— *see also* **Qin, Hong[2], 2005f:62122** *and* **Chatterjee, Kashinath et al., 2005i:62113**

Georgiou, Stelios (*with* Koukouvinos, Christos; Stylianou, S.) New skew Hadamard matrices and their application in edge designs. (English summary)

Gilmour, Steven G. *see* **Tsai, Pi-Wen et al.**

Graczyk, Małgorzata *see* **Ceranka, Bronisław, 2005c:62134** *and* **2005h:62206**

Gupta, Sudhir (*with* Santra, Sourav) Confounded cross-over designs for factorial experiments. (English summary) **2005b:62164**

Han, Dong *see* **Kuwada, Masahide et al., 2005c:62138**

Hyodo, Yoshifumi *see* **Kuwada, Masahide et al., 2005c:62138**

Jacroux, Mike A modified minimum aberration criterion for selecting regular 2^{m-k} fractional factorial designs. (English summary)

Jimbo, Masakazu *see* **Kuriki, Shinji et al., 2005j:62160**

Ke, Weiming (*with* Tang, Boxin) Selecting 2^{m-p} designs using a minimum aberration criterion when some two-factor interactions are important. (English summary) **2005c:62136**

Kleijnen, Jack P. C. Design and analysis of Monte Carlo experiments. (*see* **2005g:62004**)

Kolaiti, E. *see* **Evangelaras, H. et al.**

Koukouvinos, Christos (*with* Stylianou, S.) Optimal multi-level supersaturated designs constructed from linear and quadratic functions. (English summary) **2005c:62137**

— *see also* **Evangelaras, H. et al., 2005c:62135; Basso, D. et al., (2005f:62009)** *and* **Georgiou, Stelios et al.**

Kuriki, Shinji (*with* Mejza, Iwona; Jimbo, Masakazu; Mejza, Stanisław; Ozawa, Kazuhiro[2]) Resolvable semi-balanced incomplete split-block designs. (English summary) **2005j:62160**

Kuwada, Masahide (*with* Hyodo, Yoshifumi; Han, Dong) Characterization of balanced fractional 2^m factorial designs of resolution $R^*(\{1\}|3)$ and GA-optimal designs. (English summary) **2005c:62138**

Lewis, Susan M. *see* **Russell, K. G. et al.**

Li, Peng-Fei (*with* Liu, Min-Qian; Zhang, Run-Chu) Some theory and the construction of mixed-level supersaturated designs. (English summary) **2005h:62207**

Li, William *see* **Cheng, Shao-Wei et al.**

Liao, Chen-Tuo (*with* Chai, Feng-Shun) Partially replicated two-level fractional factorial designs. (English and French summaries) **2005i:62114**

Liu, Min-Qian *see* **Li, Peng-Fei et al., 2005h:62207**

Mead, Roger *see* **Tsai, Pi-Wen et al.**

Mejza, Iwona *see* **Kuriki, Shinji et al., 2005j:62160**

Mejza, Stanisław *see* **Kuriki, Shinji et al., 2005j:62160**

Miller, Arden E. (*with* Sitter, R. R.) Choosing columns from the 12-run Plackett-Burman design. (English summary) **2005a:62180**

— The analysis of unreplicated factorial experiments using all possible comparisons. (English summary)

Nguyen, Nam-Ky A modified cyclic-coordinate exchange algorithm as illustrated by the construction of minimum-point second-order designs. (English summary) (*see* **2005a:62014**)

Ojima, Yoshikazu (*with* Suzuki, Tomomichi; Yasui, Seiichi) An alternative expression of the fractional factorial designs for two-level and three-level factors. (English summary) (*see* **2005a:62017**)

Ozawa, Kazuhiro[2] *see* **Kuriki, Shinji et al., 2005j:62160**

Qin, Hong[2] (*with* Fang, Kai-Tai) Discrete discrepancy in factorial designs. (English summary) **2005f:62122**

— *see also* **Chatterjee, Kashinath et al., 2005i:62113**

Qu, Xianggui (*with* Wu, C. F. Jeff) One-factor-at-a-time designs of resolution V. (English summary)

Robbiano, Lorenzo *see* **Caboara, Massimo, 2005b:62163**

Roy Chowdhury, Sanjoy Catalogue of group structures for three-level fractional factorial designs. (English summary)

Russell, K. G. (*with* Lewis, Susan M.; Dean, Angela M.) Fractional factorial designs for the detection of interactions between design and noise factors. (English summary)

Salmaso, L. *see* **Basso, D. et al., (2005f:62009)**

Santra, Sourav *see* **Gupta, Sudhir, 2005b:62164**

Schoen, E. D. Dispersion-effects detection after screening for location effects in unreplicated two-level experiments. (English summary)

Sitter, R. R. *see* **Miller, Arden E., 2005a:62180**

Stylianou, S. *see* **Koukouvinos, Christos, 2005c:62137** *and* **Georgiou, Stelios et al.**

Suzuki, Tomomichi *see* **Ojima, Yoshikazu et al., (2005a:62017)**

Tang, Boxin *see* **Ke, Weiming, 2005c:62136**

Tsai, Pi-Wen (*with* Gilmour, Steven G.; Mead, Roger) Some new three-level orthogonal main effects plans robust to model uncertainty. (English summary)

Wang, Pe Cheng Designing two-level fractional factorial experiments in blocks of size two. (English summary)

Wu, C. F. Jeff *see* **Xu, Hongquan et al.** *and* **Qu, Xianggui**

Xu, Hongquan (*with* Cheng, Shao-Wei; Wu, C. F. Jeff) Optimal projective three-level designs for factor screening and interaction detection. (English summary)

Yasui, Seiichi *see* **Ojima, Yoshikazu et al., (2005a:62017)**

Ye, Kenny Q. A note on regular fractional factorial designs. (English summary) **2005i:62115**

— *see also* **Cheng, Shao-Wei et al., 2005f:62121**

Zhang, Aijun *see* **Fang, Kai-Tai**

Zhang, Run-Chu *see* **Ai, Mingyao, 2005a:62178; 2005h:62203; 2005h:62204; 2005j:62158** *and* **Li, Peng-Fei et al., 2005h:62207**

Items with secondary classifications in 62K15

Chan, B. S. P. *see* **Martin, Richard John et al.**

Cheng, Russell C. H. (*with* Jones, Owen Dafydd) Analysis of distributions in factorial experiments. (English summary) **2005j:62009**

Chowdhury, Abdul H. On the application of Boolean function in designed experiments with censored response data. (English summary)

Das, Nandini Improving resistivity of resin. (English summary)

Diestelkamp, Wiebke S. Parameter inequalities for orthogonal arrays with mixed levels (English summary) **2005d:05030**

Donev, Alexander N. Design of experiments in the presence of errors in factor levels (English summary)

Eccleston, J. A. *see* **Martin, Richard John et al.**

Escobar, Luis A. *see* **Nair, Vijayan N. et al., (2005a:62018)**

Fang, Kai-Tai (*with* Ge, Gen-Nian; Liu, Min-Qian; Qin, Hong[2]) Construction of uniform designs via super-simple resolvable t-designs. (English summary)

Ge, Gen-Nian *see* **Fang, Kai-Tai et al.**

Hamada, Michael S. *see* **Nair, Vijayan N. et al., (2005a:62018)** *and* **Wilson, Alyson G. et al. (2005a:62018)**

Hirschfeld, J. W. P. (*with* Storme, Leo) The packing problem in statistics, coding theory and finite projective spaces: update 2001. (English summary) **2005b:51017**

Hyodo, Yoshifumi *see* **Kuwada, Masahide et al., 2005j:62156**

Jacroux, Mike Maximal rank minimum aberration blocked regular 2^{m-k} fractional factorial designs. (English summary)

Jones, Owen Dafydd *see* **Cheng, Russell C. H., 2005j:62009**

Kuwada, Masahide (*with* Hyodo, Yoshifumi; Yumiba, Hiromu) GA-optimal balanced fractional 2^m factorial designs of resolution $R^*(\{0,1\}|3)$. (English summary) **2005j:62156**

Liau, Pen-Hwang Residuals in minimal resolution IV designs. (English summary) **2005b:62021**

Liu, Min-Qian *see* **Fang, Kai-Tai et al.**

Liu, San Yang *see* **Pang, Shanqi et al., 2005d:05032** *and* **2005h:05029**

Martin, Richard John (*with* Eccleston, J. A.; Chan, B. S. P.) Efficient factorial experiments when the data are spatially correlated. (English summary)

Martínez, Ignacio *see* **Rodríguez Torreblanca, C. et al., 2005g:62135**

Martz, Harry F. *see* **Wilson, Alyson G. et al., (2005a:62018)**

Meshkani, Mohammad R. Limiting properties of empirical Bayes estimators in a two-factor experiment under inverse Gaussian model. (English and Persian summaries) **2005g:62016**

Nair, Vijayan N. (*with* Escobar, Luis A.; Hamada, Michael S.) Design and analysis

of experiments for reliability assessment and improvement. (English summary) (*see* **2005a:62018**)
Ortiz, Isabel *see* **Rodríguez Torreblanca, C. et al., 2005g:62135**
Pan, Guohua (*with* Santner, Thomas J.) Theory of screening procedures to identify robust product designs using fractional factorial experiments. (English summary)
Pang, Shanqi (*with* Zhang, Ying Shan) Orthogonal arrays of size 108 with six-level columns. (English summary) **2005c:05035**
— (*with* Zhang, Ying Shan; Liu, San Yang) Further results on the orthogonal arrays obtained by generalized Hadamard product. (English summary) **2005d:05032**
— (*with* Zhang, Ying Shan; Liu, San Yang) Normal mixed difference matrix and the construction of orthogonal arrays. (English summary) **2005h:05029**
Qin, Hong[2] *see* **Fang, Kai-Tai et al.**
Reese, C. Shane *see* **Wilson, Alyson G. et al., (2005a:62018)**
Rekab, Kamel (*with* Shaikh, Muzaffar) ★ Statistical design of experiments with engineering applications.
Rodríguez Torreblanca, C. (*with* Ortiz, Isabel; Martínez, Ignacio) L-optimum designs in multi-factor models with heteroscedastic errors. (English summary) **2005g:62135**
Santner, Thomas J. *see* **Pan, Guohua**
Shaikh, Muzaffar *see* **Rekab, Kamel**
Storme, Leo *see* **Hirschfeld, J. W. P., 2005b:51017**
Wilson, Alyson G. (*with* Reese, C. Shane; Hamada, Michael S.; Martz, Harry F.) Integrated analysis of computer and physical experimental lifetime data. (English summary) (*see* **2005a:62018**)
Yumiba, Hiromu *see* **Kuwada, Masahide et al., 2005j:62156**
Zhang, Ying Shan *see* **Pang, Shanqi et al., 2005c:05035; 2005d:05032** *and* **2005h:05029**

62K20 Response surface designs

van Beers, Wim C. M. *see* **Kleijnen, Jack P. C.**
Fan, Shu-Kai S. *see* **Huang, Kuo-Nan**
Gilmour, Steven G. Irregular four-level response surface designs. (English summary)
Huang, Kuo-Nan (*with* Fan, Shu-Kai S.) A note on minimum bias estimation in response surfaces. (English summary)
Kleijnen, Jack P. C. (*with* van Beers, Wim C. M.) Robustness of Kriging when interpolating in random simulation with heterogeneous variances: some experiments. (English summary)
Prescott, Philip A class of designs for mixture expériments based on augmented pairs. (English summary)

Items with secondary classifications in 62K20

Al-Shingiti, Arwa M. *see* **Huda, Shahariar**
Chang, Hung-Yen *see* **Wang, Ming-Yung**
Cheng, Shao-Wei (*with* Ye, Kenny Q.) Geometric isomorphism and minimum aberration for factorial designs with quantitative factors. (English summary) **2005f:62121**
Diamond, Neil T. *see* **Sztendur, Ewa M., (2005a:26002)**
Feng, Ping[3] (*with* Kelly, Colleen) An extension of the model free test to test synergy in multiple drug combinations. (English summary)
Huda, Shahariar (*with* Al-Shingiti, Arwa M.) Second-order E-minimax optimal designs for estimating slopes over spherical regions: performance under model variation. (English summary)
Kang, Ho-Seog *see* **Park, Sung Hyun et al., 2005a:62025**
Kang, Kee-Hoon *see* **Park, Sung Hyun et al., 2005a:62025**
Kelly, Colleen *see* **Feng, Ping[3]**
Park, Sung Hyun (*with* Kang, Ho-Seog; Kang, Kee-Hoon) Measures for stability of slope estimation on the second order response surface and equally-stable slope rotatability. (English summary) **2005a:62025**
Sztendur, Ewa M. (*with* Diamond, Neil T.) Inequalities for the precision of the path of steepest ascent in response surface methodology. (English summary) (*see* **2005a:26002**)
Wang, Ming-Yung (*with* Chang, Hung-Yen) The optimum of tool geometry on surface roughness in end milling AL2014-T6. (English summary)
Ye, Kenny Q. *see* **Cheng, Shao-Wei, 2005f:62121**

62K25 Robust parameter designs

Berger, Martijn P. F. (*with* Tan, Frans E. S.) Robust designs for linear mixed effects models. (English summary)
Dette, Holger (*with* O'Brien, Timothy E.) Efficient experimental design for the Behrens-Fisher problem with application to bioassay. (English summary) **2005b:62165**
Mak, Tak K. (*with* Nebebe, Fassil) Modeling problems in parameter designs. (English summary)
Nebebe, Fassil *see* **Mak, Tak K.**
O'Brien, Timothy E. *see* **Dette, Holger, 2005b:62165**
Tan, Frans E. S. *see* **Berger, Martijn P. F.**

62K99 None of the above, but in this section

Chick, Stephen E. *see* **Ng, Szu Hui**
Ng, Szu Hui (*with* Chick, Stephen E.) Design of follow-up experiments for improving model discrimination and parameter estimation. (English summary)

Items with secondary classifications in 62K99

Barhen, Jacob (*with* Protopopescu, Vladimir A.; Reister, David B.) Consistent uncertainty reduction in modeling nonlinear systems. (English summary) **2005h:93055**
Choi, Kuey Chung (*with* Gupta, Sudhir; Kageyama, Sanpei) Designs for diallel crosses for test versus control comparisons. (English summary) **2005a:62177**
Gupta, Sudhir *see* **Choi, Kuey Chung et al., 2005a:62177**
Kageyama, Sanpei *see* **Choi, Kuey Chung et al., 2005a:62177**
Kuhfeld, Warren F. Difference schemes via computerized searches. (English summary) **2005f:05027**
Protopopescu, Vladimir A. *see* **Barhen, Jacob et al., 2005h:93055**
Reister, David B. *see* **Barhen, Jacob et al., 2005h:93055**

62Lxx Sequential methods

62L05 Sequential design

Anderson, Keaven M. *see* **Liu, Qing[2] et al.**
Anderson, Stewart J. *see* **Mor, Maria K.**
Baldi Antognini, Alessandro Extensions of the Ehrenfest urn designs for comparing two treatments. (English summary) **2005h:62208**
Baron, Michael I. *see* **Schmegner, Claudia, 2005f:62124**
Chang, Myron N. *see* **Shuster, Jonathan J. et al.**
Chen, Pinyuen *see* **Rollin, Linda M., 2005c:62140**
Clayton, Murray K. (*with* Petkau, A. John) Evaluation of asymptotic approximations for a two-stage Bernoulli bandit. (English summary)
Douke, Hideyuki *see* **Imada, Tsunehisa**
Dyvak, N. P. (*with* Pukas, A. V.) Sequential design of I_G-optimal experiments for constructing interval models of static systems. (Russian. English, Russian and Ukrainian summaries)
Emerson, Scott S. *see* **Gillen, Daniel L.**
Ferguson, Thomas S. (*with* Tatsuoka, Curtis) An optimal strategy for sequential classification on partially ordered sets. (English summary) **2005e:62111**
Gillen, Daniel L. (*with* Emerson, Scott S.) Information growth in a family of weighted logrank statistics under repeated analyses. (English summary)
Ginebra, Josep Two-armed bandit strategies that discount past and future. (English summary)
Hu, Fei Fang (*with* Zhang, Li Xin[1]) Asymptotic properties of doubly adaptive biased coin designs for multitreatment clinical trials. (English summary) **2005b:62166**
Imada, Tsunehisa (*with* Douke, Hideyuki) Determination of different sample sizes for two treatments in group sequential procedure with repeated confidence boundaries constructed by slope. (English summary)
Lai, Tze Leung (*with* Shih, Mei-Chiung) Power, sample size and adaptation considerations in the design of group sequential clinical trials. (English summary) **2005c:62139**
Liu, Qing[2] (*with* Anderson, Keaven M.; Pledger, Gordon W.) Benefit-risk evaluation of multi-stage adaptive designs. (English summary)
McWilliams, Thomas P. The design of truncated sequential test plans based on attributes data. (English summary)
Moler, José A. (*with* Plo, Fernando; San Miguel Marco, Miguel) Adaptive designs and Robbins-Monro algorithm. (English summary) **2005m:62143**
Mor, Maria K. (*with* Anderson, Stewart J.) A Bayesian group sequential approach for multiple endpoints. (English summary)
Murphy, S. A. Optimal dynamic treatment regimes. (English summary) **2005b:62167**
Petkau, A. John Optimal group sequential designs for the Anscombe-Colton model. (English summary) (*see* **2005m:62007**)
— *see also* **Clayton, Murray K.**
Pledger, Gordon W. *see* **Liu, Qing[2] et al.**
Plo, Fernando *see* **Moler, José A. et al., 2005m:62143**
Pukas, A. V. *see* **Dyvak, N. P.**
Rekab, Kamel (*with* Tahir, Mohamed) An asymptotic second-order lower bound for the Bayes risk of a sequential procedure. (English summary) **2005f:62123**
Rollin, Linda M. (*with* Chen, Pinyuen) A two-stage selection and testing design for comparing several normal means with a standard: the case of common, known variance. (English summary) **2005c:62140**
Rukhin, Andrew L. Limiting distributions in sequential occupancy problem. (English summary) **2005a:62181**
San Miguel Marco, Miguel *see* **Moler, José A. et al., 2005m:62143**
Schmegner, Claudia (*with* Baron, Michael I.) Principles of optimal sequential planning. (English summary) **2005f:62124**
Shih, Mei-Chiung *see* **Lai, Tze Leung, 2005c:62139**
Shuster, Jonathan J. (*with* Chang, Myron N.; Tian, Lili) Design of group sequential clinical trials with ordinal categorical data based on the Mann-Whitney-Wilcoxon test. (English summary)
Tahir, Mohamed *see* **Rekab, Kamel, 2005f:62123**
Tatsuoka, Curtis *see* **Ferguson, Thomas S., 2005e:62111**
Tian, Lili *see* **Shuster, Jonathan J. et al.**
Zhang, Li Xin[1] *see* **Hu, Fei Fang, 2005b:62166**

Items with secondary classifications in 62L05

Bai, Zhi-Dong (*with* Hu, Fei Fang) Asymptotics in randomized urn models. (English summary) **2005k:62055**
Baldi Antognini, Alessandro (*with* Giovagnoli, Alessandra) A new 'biased coin design' for the sequential allocation of two treatments. (English summary)
Bandyopadhyay, Uttam (*with* Das, Radhakanta) A progressive censored test for the generalised Behrens-Fisher problem. (English summary) **2005e:62064**
— (*with* Biswas, Atanu) Randomized allocation procedure for testing a normal mean with known variance. (English summary) **2005a:62050**
Bari, Wasimul *see* **Sutradhar, Brajendra C. et al.**
Bauer, Peter H. *see* **Brannath, Werner**
Biswas, Atanu (*with* Coad, D. Stephen) A general multi-treatment adaptive design for multivariate responses. (English summary)
— *see also* **Bandyopadhyay, Uttam, 2005a:62050; Dewanji, Anup** *and* **Sutradhar, Brajendra C. et al.**
Brannath, Werner (*with* Bauer, Peter H.) Optimal conditional error functions for the control of conditional power. (English summary)
Chang, Yuan-chin Ivan Application of sequential probability ratio test to computerized criterion-referenced testing. (English summary) **2005e:62112**
Cicconetti, Greg *see* **Mukhopadhyay, Nitis**
Coad, D. Stephen *see* **Biswas, Atanu**

Das, Radhakanta *see* **Bandyopadhyay, Uttam, 2005e:62064**
Dewanji, Anup (*with* Biswas, Atanu) Optimal scheduling of intermediate examination times in simple illness-death model. (English summary)
Giovagnoli, Alessandra *see* **Baldi Antognini, Alessandro**
Haschke, Greg B. *see* **Koch, Mark W. et al.**
Hu, Fei Fang *see* **Bai, Zhi-Dong, 2005k:62055**
Koch, Mark W. (*with* Haschke, Greg B.; Malone, Kevin T.) Classifying acoustic signatures using the sequential probability ratio test. (English summary)
Malone, Kevin T. *see* **Koch, Mark W. et al.**
Mukhopadhyay, Nitis (*with* Cicconetti, Greg) Applications of sequentially estimating the mean in a normal distribution having equal mean and variance. (English summary)
Pronzato, Luc Designing from a sequence of I.I.D. experiments. (English summary) **2005a:62173**
Sutradhar, Brajendra C. (*with* Biswas, Atanu; Bari, Wasimul) Marginal regression for binary longitudinal data in adaptive clinical trials. (English summary)
Zhang, Li Xin[1] Strong approximations of martingale vectors and their applications in Markov-chain adaptive designs. (English summary) **2005e:60075**

62L10 Sequential analysis

Atenafu, Eshetu (*with* Gombay, Edit) Sequential tests for change in the parameters of nested random effects model. (English summary) **2005g:62137**
Aue, Alexander (*with* Horváth, Lajos) Delay time in sequential detection of change. (English summary) **2005b:62168**
Basu, A. K. (*with* Das, Jadab Krishna) Sequential fixed size confidence regions based on maximum likelihood estimates under dependent setup. (English summary) **2005k:62180**
Bui, Thanh Ngoc (*with* Krishnamurthy, Vikram; Poor, H. Vincent) Online Bayesian activity detection in DS/CDMA networks. (English summary)
Chang, Yuan-chin Ivan Application of sequential probability ratio test to computerized criterion-referenced testing. (English summary) **2005e:62112**
Cho, Hokwon A. *see* **Govindarajulu, Z., 2005c:62141**
Das, Jadab Krishna *see* **Basu, A. K., 2005k:62180**
Dragalin, Vladimir (*with* Yakir, Benjamin; Hall, William J.) Bias of estimates of secondary parameters in linear-boundary sequential tests. (English summary) **2005j:62161**
Fenoy, M. Mar (*with* Ibarrola Muñoz, María del Pilar) Sufficiency in sequentially planned decision procedures. (English summary) **2005a:62182**
Ghosh, J. K. (*with* Purkayastha, Sumitra; Samanta, Tapas) Sequential probability ratio tests based on improper priors. (English summary) **2005g:62138**
Glaz, Joseph (*with* Pozdnyakov, Vladimir) A repeated significance test for distributions with heavy tails. (English summary) **2005j:62162**
Gombay, Edit *see* **Atenafu, Eshetu, 2005g:62137**
Govindarajulu, Z. (*with* Cho, Hokwon A.) Sequential confidence intervals for the number of cells in a multinomial population. (English summary) **2005c:62141**
Hall, William J. *see* **Yakir, Benjamin, 2005i:62117** *and* **Dragalin, Vladimir et al., 2005j:62161**
Horváth, Lajos (*with* Hušková, Marie; Kokoszka, P. S.; Steinebach, Josef) Monitoring changes in linear models. (English summary) **2005g:62139**
— *see also* **Aue, Alexander, 2005b:62168**
Huang, Wenzheng Stepwise likelihood ratio statistics in sequential studies. (English summary) **2005a:62183**
Hušková, Marie *see* **Horváth, Lajos et al., 2005g:62139**
Ibarrola Muñoz, María del Pilar *see* **Fenoy, M. Mar, 2005a:62182**
Irle, A. (*with* Lotov, V. I.) A nonsymmetric sequential test. (English summary) **2005a:62184**
Keener, Robert W. Local information and the design of sequential hypothesis tests. (English summary) **2005m:62144**
Khan, Mohammad K. *see* **Khan, Rasul A., 2005d:62125**
Khan, Rasul A. (*with* Khan, Mohammad K.) On the use of the SPRT in determining the properties of some CUSUM procedures. (English summary) **2005d:62125**
Kokoszka, P. S. *see* **Horváth, Lajos et al., 2005g:62139**
Krishnamurthy, Vikram *see* **Bui, Thanh Ngoc et al.**
Lai, Tze Leung Likelihood ratio identities and their applications to sequential analysis. (English summary) **2005i:62116**
Liu, Aiyi A simple low-bias estimate following a sequential test with linear boundaries. (English summary) (*see* **2005i:62004**)
Liu, Wei[4] Some simple corrected confidence intervals following a sequential test. (English summary)
Lotov, V. I. *see* **Irle, A., 2005a:62184**
Moustakides, George V. Optimality of the CUSUM procedure in continuous time. (English summary) **2005b:62169**
Poor, H. Vincent *see* **Bui, Thanh Ngoc et al.**
Pozdnyakov, Vladimir *see* **Glaz, Joseph, 2005j:62162**
Purkayastha, Sumitra *see* **Ghosh, J. K. et al., 2005g:62138**
Roters, Markus Exponential boundedness of control variables in a sequentially planned Bayesian multiple decision problem in continuous time. (English summary) **2005f:62125**
Samanta, Tapas *see* **Ghosh, J. K. et al., 2005g:62138**
Steinebach, Josef *see* **Horváth, Lajos et al., 2005g:62139**
Wei, Li Li (*with* Zhang, Wen Xiu) Bayesian procedure in classification problems with linear exponential hazard function. (Chinese. English and Chinese summaries) **2005h:62209**
Whittle, Peter Three approaches to sequential analysis and one to hidden Markov processes. (English summary)
Wu, Yanhong Bias of estimator of change point detected by a CUSUM procedure. (English summary) **2005d:62126**
Yakir, Benjamin (*with* Hall, William J.) Testing for a treatment-by-stratum interaction in a sequential clinical trial. (English summary) **2005i:62117**
— *see also* **Dragalin, Vladimir et al., 2005j:62161**
Zhang, Wen Xiu *see* **Wei, Li Li, 2005h:62209**

Items with secondary classifications in 62L10

Aboukalam, M. A. F. The robust number of clusters in several unconstrained multivariate samples and outlier detection. (English summary)
Aoshima, Makoto (*with* Takada, Yoshikazu) Asymptotic second-order efficiency for multivariate two-stage estimation of a linear function of normal mean vectors. (English summary) **2005j:62163**
Bandyopadhyay, Uttam (*with* Das, Radhakanta) A progressive censored test for the generalised Behrens-Fisher problem. (English summary) **2005e:62064**
Berkes, István (*with* Gombay, Edit; Horváth, Lajos; Kokoszka, P. S.) Sequential change-point detection in GARCH(p, q) models. (English summary) **2005k:62200**
Biswas, Atanu (*with* Dewanji, Anup) A randomized longitudinal play-the-winner design for repeated binary data. (English summary) **2005h:62289**
Çetin, İ. *see* **Kerestecioğlu, F., 2005b:62183**
Chattopadhyay, Gopaldeb Randomized play-the-winner rule for ordered categorical data. (English summary) **2005k:62243**
Das, Radhakanta *see* **Bandyopadhyay, Uttam, 2005e:62064**
Dewanji, Anup *see* **Biswas, Atanu, 2005h:62289**
Ebneshahrashoob, Morteza (*with* Gao, Tangan; Sobel, Milton) Sequential window problems. (English summary)
Gal'chuk, L. I. (*with* Konev, Viktor) On uniform asymptotic normality of sequential least squares estimators for the parameters in a stable AR(p). (English summary) **2005h:62210**
Gao, Tangan *see* **Ebneshahrashoob, Morteza et al.**
Gombay, Edit *see* **Berkes, István et al., 2005k:62200**
Haschke, Greg B. *see* **Koch, Mark W. et al.**
Horváth, Lajos *see* **Berkes, István et al., 2005k:62200**
Kerestecioğlu, F. (*with* Çetin, İ.) Optimal input design for the detection of changes towards unknown hypotheses. (English summary) **2005b:62183**
Kharin, A. Yu. Robustness in sequential discrimination of Markov chains under "contamination". (English summary) **2005d:62044**
Koch, Mark W. (*with* Haschke, Greg B.; Malone, Kevin T.) Classifying acoustic signatures using the sequential probability ratio test. (English summary)
Kokoszka, P. S. *see* **Berkes, István et al., 2005k:62200**
Konev, Viktor *see* **Gal'chuk, L. I., 2005h:62210**
Kongsted, Hans Christian Testing the nominal-to-real transformation. (English summary) **2005i:62126**
Kou, S. G. On pricing of discrete barrier options. (English summary) **2005a:62225**
Lai, Tze Leung (*with* Lim, Tiong Wee) Optimal stopping for Brownian motion with applications to sequential analysis and option pricing. (English summary)
Lim, Tiong Wee *see* **Lai, Tze Leung**
Liu, Aiyi (*with* Troendle, James F.; Yu, Kai F.; Yuan, Vivian W.) Conditional maximum likelihood estimation following a group sequential test. (English summary)
Malone, Kevin T. *see* **Koch, Mark W. et al.**
Müller, Peter[2] *see* **Stroud, Jonathan R. et al., (2005c:62005)**
Norberg, E. On filtered experiments and the information contained in likelihood ratios. (English summary) **2005i:62016**
Pawlak, Mirosław (*with* Rafajłowicz, Ewaryst; Steland, Ansgar) On detecting jumps in time series: nonparametric setting. (English summary) **2005g:62161**
Pitchaimani, M. Estimation and sensitivity of Gompertz parameters with mortality deceleration rate. (English summary)
Polson, Nicholas G. *see* **Stroud, Jonathan R. et al., (2005c:62005)**
Rafajłowicz, Ewaryst *see* **Pawlak, Mirosław et al., 2005g:62161**
Schmid, Wolfgang P. (*with* Tzotchev, Dobromir) Statistical surveillance of the parameters of a one-factor Cox-Ingersoll-Ross model. (English summary) **2005c:62190**
Sobel, Milton *see* **Ebneshahrashoob, Morteza et al.**
Steland, Ansgar *see* **Pawlak, Mirosław et al., 2005g:62161**
Stroud, Jonathan R. (*with* Polson, Nicholas G.; Müller, Peter[2]) Practical filtering for stochastic volatility models. (English summary) (*see* **2005c:62005**)
Takada, Yoshikazu *see* **Aoshima, Makoto, 2005j:62163**
Troendle, James F. *see* **Liu, Aiyi et al.**
Tzotchev, Dobromir *see* **Schmid, Wolfgang P., 2005c:62190**
Yu, Kai F. *see* **Liu, Aiyi et al.**
Yuan, Vivian W. *see* **Liu, Aiyi et al.**

62L12 Sequential estimation

Akahira, Masafumi (*with* Koike, Ken-ichi) Sequential interval estimation of a location parameter with the fixed width in the uniform distribution with an unknown scale parameter. (English summary) **2005m:62145**
Aoshima, Makoto (*with* Takada, Yoshikazu) Asymptotic second-order efficiency for multivariate two-stage estimation of a linear function of normal mean vectors. (English summary) **2005j:62163**
Arce, Gonzalo R. *see* **Li, Yinbo**
Bhougal, S. *see* **Gupta, Rahul et al., 2005g:62140**
Chattopadhyay, Saibal (*with* Datta, Sujay; Sengupta, Raghu Nandan) Asymmetric penalized prediction using adaptive sampling procedures. (English summary)
Cho, Hokwon A. (*with* Govindarajulu, Z.) Risk-efficient sequential estimation of the number of multinomial cells. (English summary) **2005k:62181**
Cicconetti, Greg *see* **Mukhopadhyay, Nitis**
Datta, Sujay *see* **Chattopadhyay, Saibal et al.**
Dmitrienko, A. A. (*with* Govindarajulu, Z.) Sequential estimation in binary response models with fixed and random covariates. (English summary)
Gal'chuk, L. I. (*with* Konev, Viktor) On uniform asymptotic normality of sequential least squares estimators for the parameters in a stable AR(p). (English summary) **2005h:62210**
Govindarajulu, Z. *see* **Cho, Hokwon A., 2005k:62181** *and* **Dmitrienko, A. A.**
Gupta, Rahul (*with* Bhougal, S.; Joorel, J. P. S.) Sequential procedure for estimation of mean of an inverse Gaussian distribution. (English summary) **2005g:62140**
Isogai, Eiichi *see* **Lim, Daisy Lou et al., 2005j:62164**
Jokiel-Rokita, Alicja (*with* Magiera, Ryszard) Γ-minimax estimation with delayed observations from the multinomial distribution. (English summary) **2005b:62170**
Joorel, J. P. S. *see* **Gupta, Rahul et al., 2005g:62140**

Koike, Ken-ichi *see* **Akahira, Masafumi, 2005m:62145**
Konev, Viktor *see* **Gal'chuk, L. I., 2005h:62210**
Küchler, Uwe (*with* Vasiliev, Vyacheslav) Sequential identification of linear dynamic systems with memory. (English summary) **2005m:62146**
Li, Yinbo (*with* Arce, Gonzalo R.) A maximum likelihood approach to least absolute deviation regression. (English summary)
Lim, Daisy Lou (*with* Isogai, Eiichi; Uno, Chikara) Two-sample fixed width confidence intervals for a function of exponential scale parameters. (English summary) **2005j:62164**
Magiera, Ryszard *see* **Jokiel-Rokita, Alicja, 2005b:62170**
Mason, David M. The Chow and Robbins fixed width confidence interval procedure when the second moment barely does not exist. (English summary) **2005j:62165**
Mukhopadhyay, Nitis (*with* Cicconetti, Greg) Applications of sequentially estimating the mean in a normal distribution having equal mean and variance. (English summary)
— (*with* de Silva, B. M.) Two-stage estimation of mean in a negative binomial distribution with applications to Mexican bean beetle data. (English summary) **2005m:62147**
Nagao, Hisao *see* **Takada, Yoshikazu, 2005i:62118**
Prakasa Rao, B. L. S. Sequential estimation for fractional Ornstein-Uhlenbeck type process. (English summary) **2005d:62127**
Sengupta, Raghu Nandan *see* **Chattopadhyay, Saibal et al.**
Shiohama, Takayuki (*with* Taniguchi, Masanobu) Sequential estimation for time series regression models. (English summary) **2005h:62211**
de Silva, B. M. *see* **Mukhopadhyay, Nitis, 2005m:62147**
Takada, Yoshikazu (*with* Nagao, Hisao) Asymptotic improvement of the sample mean vector for sequential point estimation of a multivariate normal mean with a LINEX loss function. (English summary) **2005i:62118**
— *see also* **Aoshima, Makoto, 2005j:62163**
Taniguchi, Masanobu *see* **Shiohama, Takayuki, 2005h:62211**
Uno, Chikara Sequential estimation of the ratio of scale parameters in the exponential two-sample problem. (English summary) **2005h:62212**
— *see also* **Lim, Daisy Lou et al., 2005j:62164**
Vasiliev, Vyacheslav *see* **Küchler, Uwe, 2005m:62146**

Items with secondary classifications in 62L12

Agati, Patrizia Combining information from several experts: Selecting and stopping rules in sequential consulting. (English summary) (*see* **2005f:62007**)
Atenafu, Eshetu (*with* Gombay, Edit) Sequential tests for change in the parameters of nested random effects model. (English summary) **2005g:62137**
Basu, A. K. (*with* Das, Jadab Krishna) Sequential fixed size confidence regions based on maximum likelihood estimates under dependent setup. (English summary) **2005k:62180**
Berzuini, Carlo (*with* Gilks, Walter R.) Particle filtering methods for dynamic and static Bayesian problems. (*see* **2005b:62009**)
(Clifford, Peter) *see* **Berzuini, Carlo, (2005b:62009)**
Das, Jadab Krishna *see* **Basu, A. K., 2005k:62180**
Dragalin, Vladimir (*with* Yakir, Benjamin; Hall, William J.) Bias of estimates of secondary parameters in linear-boundary sequential tests. (English summary) **2005j:62161**
Efromovich, Sam On sequential data-driven density estimation. (English summary) **2005f:62062**
Gal'chuk, L. I. (*with* Pergamenshchikov, Sergeĭ) Nonparametric sequential estimation of the drift in diffusion processes via model selection. (English summary) **2005d:62132**
Gilks, Walter R. *see* **Berzuini, Carlo, (2005b:62009)**
Gombay, Edit *see* **Atenafu, Eshetu, 2005g:62137**
Hall, William J. *see* **Dragalin, Vladimir et al., 2005j:62161**
Hu, Fei Fang (*with* Zhang, Li Xin[1]) Asymptotic properties of doubly adaptive biased coin designs for multitreatment clinical trials. (English summary) **2005b:62166**
Nobel, Andrew B. Some stochastic properties of memoryless individual sequences. (English summary) **2005g:60039**
O'Neill, Terence J. (*with* Penm, J. H. W.; Terrell, R. D.) The sequential estimation of subset VAR with forgetting factor and intercept variable. (English summary) **2005g:91157**
Penm, J. H. W. *see* **O'Neill, Terence J. et al., 2005g:91157**
Pergamenshchikov, Sergeĭ *see* **Gal'chuk, L. I., 2005d:62132**
(Storvik, Geir) *see* **Berzuini, Carlo, (2005b:62009)**
Terrell, R. D. *see* **O'Neill, Terence J. et al., 2005g:91157**
Yakir, Benjamin *see* **Dragalin, Vladimir et al., 2005j:62161**
Zhang, Li Xin[1] *see* **Hu, Fei Fang, 2005b:62166**

62L15 Optimal stopping [see also 60G40, 91A60]

Chang, Yen-Chang A sequential software release policy. (English summary) **2005f:62126**
Chen, Kung-Yu (*with* Lin, Chien-Tai) A note on infinite-armed Bernoulli bandit problems with generalized beta prior distributions. (English summary) **2005i:62119**
Ebneshahrashoob, Morteza (*with* Gao, Tangan; Sobel, Milton) Sequential window problems. (English summary)
Gao, Tangan *see* **Ebneshahrashoob, Morteza et al.**
Karatzas, Ioannis A note on Bayesian detection of change-points with an expected miss criterion. (English summary) **2005d:62128**
Lai, Tze Leung (*with* Lim, Tiong Wee) Optimal stopping for Brownian motion with applications to sequential analysis and option pricing. (English summary)
Lim, Tiong Wee *see* **Lai, Tze Leung**
Lin, Chien-Tai *see* **Chen, Kung-Yu, 2005i:62119**
Liu, Zai Ming *see* **Xu, Jin Fu** *and* **Zhao, Xiao Qin**
Saint-Mont, Uwe Comparison of values of independent random variables in a Bayesian setting. (English summary) **2005d:62129**
Sobel, Milton *see* **Ebneshahrashoob, Morteza et al.**
Xu, Jin Fu (*with* Liu, Zai Ming) Ruin probabilities in generalized compound binomial risk models. (Chinese. English and Chinese summaries)
Zhao, Xiao Qin (*with* Liu, Zai Ming) An estimate of the ruin probability of a double-type-insurance risk process. (Chinese. English and Chinese summaries)

Items with secondary classifications in 62L15

Agati, Patrizia Combining information from several experts: Selecting and stopping rules in sequential consulting. (English summary) (*see* **2005f:62007**)
Allaart, Pieter C. Stopping the maximum of a correlated random walk, with cost for observation. (English summary) **2005j:60084**
— An application of prophet regions to optimal stopping with a random number of observations. (English summary) **2005i:60079**
Christen, J. Andrés (*with* Müller, Peter[2]; Wathen, Kyle; Wolf, Judith) Bayesian randomized clinical trials: a decision-theoretic sequential design. (English and French summaries)
Enns, E. G. Optimal sequential decisions with information invariance. (English summary)
Fenoy, M. Mar (*with* Ibarrola Muñoz, María del Pilar) Sufficiency in sequentially planned decision procedures. (English summary) **2005a:62182**
Glickman, Hagit Cooperative stopping rules in multivariate problems. (English summary) **2005m:60083**
Gut, Allan (*with* Steinebach, Josef) EWMA charts for detecting a change-point in the drift of a stochastic process. (English summary) **2005m:62096**
Hall, William J. *see* **Yakir, Benjamin, 2005i:62117**
Herberts, Tina (*with* Jensen, Uwe[1]) Optimal detection of a change point in a Poisson process for different observation schemes. (English summary) **2005g:60078**
Hsiau, Shoou-Ren *see* **Yang, Jiing-Ru, 2005a:60063**
Ibarrola Muñoz, María del Pilar *see* **Fenoy, M. Mar, 2005a:62182**
Irle, A. (*with* Paulsen, Volkert) Solving problems of optimal stopping with linear costs of observations. (English summary) **2005j:60087**
Jensen, Uwe[1] *see* **Herberts, Tina, 2005g:60078**
Jokiel-Rokita, Alicja (*with* Magiera, Ryszard) Γ-minimax estimation with delayed observations from the multinomial distribution. (English summary) **2005b:62170**
Keener, Robert W. Local information and the design of sequential hypothesis tests. (English summary) **2005m:62144**
Magiera, Ryszard *see* **Jokiel-Rokita, Alicja, 2005b:62170**
Moustakides, George V. Optimality of the CUSUM procedure in continuous time. (English summary) **2005b:62169**
Müller, Peter[2] *see* **Christen, J. Andrés et al.**
Paulsen, Volkert *see* **Irle, A., 2005j:60087**
Ramsey, David (*with* Szajowski, Krzysztof) Bilateral approach to the secretary problem. (English summary) (*see* **2005g:91009**)
Samuels, Stephen M. Why do these quite different best-choice problems have the same solutions? (English summary) **2005f:60097**
Stanke, Mario Sequential selection of random vectors under a sum constraint. (English summary) **2005f:60106**
Steinebach, Josef *see* **Gut, Allan, 2005m:62096**
Szajowski, Krzysztof *see* **Ramsey, David, (2005g:91009)**
Wathen, Kyle *see* **Christen, J. Andrés et al.**
Wolf, Judith *see* **Christen, J. Andrés et al.**
Yakir, Benjamin (*with* Hall, William J.) Testing for a treatment-by-stratum interaction in a sequential clinical trial. (English summary) **2005i:62117**
Yang, Jiing-Ru (*with* Hsiau, Shoou-Ren) On Markov-dependent parking problems. (English summary) **2005a:60063**

62L20 Stochastic approximation

Chabanyuk, Ya. M. A continuous procedure for stochastic approximation in a semi-Markov environment. (Ukrainian. English and Ukrainian summaries) **2005h:62213**
Cruz, P. *see* **Plakhov, Alexander, 2005h:62214**
Dippon, Jürgen Higher order representations of the Robbins-Monro process. (English summary) **2005e:62113**
Dupuis, Paul Explicit solution to a robust queueing control problem. (English summary) **2005b:62171**
Granichin, O. N. Optimal rate of convergence of randomized algorithms for stochastic approximation under arbitrary noise. (Russian. Russian summary) **2005k:62182**
Ion, Cristina *see* **Yin, Gang George et al., 2005m:62148**
Konda, Vijay R. (*with* Tsitsiklis, John N.) Convergence rate of linear two-time-scale stochastic approximation. (English summary) **2005e:62114**
Krishnamurthy, Vikram *see* **Yin, Gang George et al., 2005m:62148**
Lamberton, Damien (*with* Pagès, Gilles; Tarrès, Pierre) When can the two-armed bandit algorithm be trusted? (English summary) **2005k:62183**
Lazrieva, N. (*with* Sharia, T.; Torondzhadze, T. A.) The Robbins-Monro type stochastic differential equations. II. Asymptotic behaviour of solutions. (English summary) **2005d:62130**
Mahmoud Ibrahim, Mahmoud Ahmed (*with* Rasha, A. A.) Stochastic approximation with compound delayed observations. (English summary)
Mokkadem, Abdelkader (*with* Pelletier, Mariane) The compact law of the iterated logarithm for multivariate stochastic approximation algorithms. (English summary) **2005k:62184**
Pagès, Gilles *see* **Lamberton, Damien et al., 2005k:62183**
Pelletier, Mariane *see* **Mokkadem, Abdelkader, 2005k:62184**
Plakhov, Alexander (*with* Cruz, P.) A stochastic approximation algorithm with step-size adaptation. **2005h:62214**
Rasha, A. A. *see* **Mahmoud Ibrahim, Mahmoud Ahmed**
Roshan Joseph, V. Efficient Robbins-Monro procedure for binary data. (English summary) **2005b:62172**
Sharia, T. *see* **Lazrieva, N. et al., 2005d:62130**
Tarrès, Pierre *see* **Lamberton, Damien et al., 2005k:62183**
Torondzhadze, T. A. *see* **Lazrieva, N. et al., 2005d:62130**
Tsitsiklis, John N. *see* **Konda, Vijay R., 2005e:62114**
Yin, Gang George (*with* Krishnamurthy, Vikram; Ion, Cristina) Regime switching stochastic approximation algorithms with application to adaptive discrete stochastic optimization. (English summary) **2005m:62148**

Items with secondary classifications in 62L20

Belitser, Eduard On asymptotic expansion of pseudovalues in nonparametric median

regression. (English summary) **2005f:62077**
Cabrera, Javier (*with* Fernholz, Luisa Turrin) Multivariate targeting with applications to ellipse estimation. (English summary) **2005a:62140**
Fatyanova, Olga (*with* Kondrat'ev, A. V.) Comparative analysis of stochastic identification methods and fault diagnosis for multi-mode discrete systems. (English summary) (*see* **2005c:00015**)
Fernholz, Luisa Turrin *see* **Cabrera, Javier**, **2005a:62140**
Hengartner, Nicolas W. (*with* Wegkamp, Marten H.) Second order asymptotics for M-estimators under non-standard conditions. (English summary) **2005k:62052**
Kondrat'ev, A. V. *see* **Fatyanova, Olga**, (**2005c:00015**)
Kuhn, Estelle (*with* Lavielle, Marc) Coupling a stochastic approximation version of EM with an MCMC procedure. (English summary) **2005c:62042**
Lavielle, Marc *see* **Kuhn, Estelle**, **2005c:62042**
Marti, Kurt ★ Stochastic optimization methods. **2005h:90003**
Moler, José A. (*with* Plo, Fernando; San Miguel Marco, Miguel) Adaptive designs and Robbins-Monro algorithm. (English summary) **2005m:62143**
Negrea, Romeo On the Cauchy-Maruyama approximation method for the solutions of McShane's stochastic integral equations. (English summary) **2005e:60142**
— On a class of stochastic integral operators of McShane type. (English summary) **2005i:60124**
Plo, Fernando *see* **Moler, José A. et al.**, **2005m:62143**
San Miguel Marco, Miguel *see* **Moler, José A. et al.**, **2005m:62143**
Spall, James C. Stochastic optimization. (*see* **2005g:62004**)
Wang, Hong[10] *see* **Yin, Gang George et al.**, (**2005f:62009**)
Wang, Le Yi *see* **Yin, Gang George et al.**, (**2005f:62009**)
Wegkamp, Marten H. *see* **Hengartner, Nicolas W.**, **2005k:62052**
Yin, Gang George (*with* Zhang, Qing[1]) Stochastic approximation methods for some finance problems. (English summary) (*see* **2005b:91010**)
— (*with* Wang, Hong[10]; Wang, Le Yi; Zheng, Han) Towards identification of patient responses to anesthesia infusion in real time. (English summary) (*see* **2005f:62009**)
Zhang, Qing[1] *see* **Yin, Gang George**, (**2005b:91010**)
Zheng, Han *see* **Yin, Gang George et al.**, (**2005f:62009**)

62L99 None of the above, but in this section

Items with secondary classifications in 62L99

De La Peña, Victor H. (*with* Yang, Ming[2]) Bounding the first passage time on an average. (English summary) **2005c:60024**
Ghosh, J. K. (*with* Purkayastha, Sumitra; Samanta, Tapas) Sequential probability ratio tests based on improper priors. (English summary) **2005g:62138**
Purkayastha, Sumitra *see* **Ghosh, J. K. et al.**, **2005g:62138**
Samanta, Tapas *see* **Ghosh, J. K. et al.**, **2005g:62138**
Uno, Chikara Sequential estimation of the ratio of scale parameters in the exponential two-sample problem. (English summary) **2005h:62212**
Yang, Ming[2] *see* **De La Peña, Victor H.**, **2005c:60024**

62Mxx Inference from stochastic processes

Items with secondary classifications in 62Mxx

Lindsey, J. K. ★ Statistical analysis of stochastic processes in time. **2005b:62003**

62M02 Markov processes: hypothesis testing

Corradi, Valentina (*with* Swanson, Norman R.) Bootstrap specification tests for diffusion processes. (English summary) **2005h:62215**
Gao, Jiti (*with* King, Maxwell L.) Adaptive testing in continuous-time diffusion models. (English summary) **2005i:62120**
King, Maxwell L. *see* **Gao, Jiti**, **2005i:62120**
Maller, Ross A. *see* **Szimayer, Alexander**, **2005b:62173**
Morales, Domingo *see* **Rivas, M. J. et al.**, **2005g:62141**
Rivas, M. J. (*with* Santos-Martín, M. T.; Morales, Domingo) Rényi test statistics for partially observed diffusion processes. (English summary) **2005g:62141**
Santos-Martín, M. T. *see* **Rivas, M. J. et al.**, **2005g:62141**
Swanson, Norman R. *see* **Corradi, Valentina**, **2005h:62215**
Szimayer, Alexander (*with* Maller, Ross A.) Testing for mean reversion in processes of Ornstein-Uhlenbeck type. (English summary) **2005b:62173**

Items with secondary classifications in 62M02

Alhakim, Abbas On the eigenvalues and eigenvectors of an overlapping Markov chain. (English summary) **2005b:60182**
Berg, Bernd A. ★ Markov chain Monte Carlo simulations and their statistical analysis.
Doukhan, Paul (*with* León, José R.) Asymptotics for the L^p-deviation of the variance estimator under diffusion. (English summary) **2005h:62219**
Iwasa, Yoh *see* **Schlicht, Robert**
Kessler, Mathieu (*with* Rahbek, Anders) Identification and inference for multivariate cointegrated and ergodic Gaussian diffusions. (English summary) **2005b:62121**
Kharin, Yuriĭ (*with* Kostevich, A.) Discriminant analysis of stationary finite Markov chains. (English summary) **2005g:62109**
Kostevich, A. *see* **Kharin, Yuriĭ**, **2005g:62109**
León, José R. *see* **Doukhan, Paul**, **2005h:62219**
Pritchard, Geoffrey (*with* Scott, David J.) The eigenvalues of the empirical transition matrix of a Markov chain. (English summary) **2005d:62133**
Rahbek, Anders *see* **Kessler, Mathieu**, **2005b:62121**
Schlicht, Robert (*with* Iwasa, Yoh) Forest gap dynamics and the Ising model. (English summary)
Scott, David J. *see* **Pritchard, Geoffrey**, **2005d:62133**
Shafie, K. (*with* Sigal, B.; Siegmund, David O.; Worsley, K. J.) Rotation space random fields with an application to fMRI data. (English summary) **2005i:60098**
Siegmund, David O. (*with* Yakir, Benjamin) Significance level in interval mapping. (English summary) **2005a:62239**
— *see also* **Shafie, K. et al.**, **2005i:60098**
Sigal, B. *see* **Shafie, K. et al.**, **2005i:60098**
Worsley, K. J. *see* **Shafie, K. et al.**, **2005i:60098**
Wu, Yanhong Bias of estimator of change point detected by a CUSUM procedure. (English summary) **2005d:62126**
Yakir, Benjamin *see* **Siegmund, David O.**, **2005a:62239**

62M05 Markov processes: estimation

Afchain, Anne-Laure Non-parametric estimation of lifetime and repair time criteria for a semi-Markov process. (English and French summaries) **2005b:62174**
Aït-Sahalia, Yacine (*with* Mykland, Per Aslak) Estimators of diffusions with randomly spaced discrete observations: a general theory. (English summary) **2005h:62216**
Alcock, Jamie (*with* Burrage, Kevin) A genetic estimation algorithm for parameters of stochastic ordinary differential equations. (English summary)
Al-Eideh, Basel M. Estimation of the parameters of a survival process with downward jumps in life table. (English summary)
Assoudou, Souad (*with* Essebbar, Belkheir) A Bayesian model for binary Markov chains. (English summary) **2005f:62127**
Atchadé, Yves F. (*with* Perron, François) Improving on the independent Metropolis-Hastings algorithm. (English summary) **2005j:62166**
Bad-Dumitrescu, Monica E. On some Markov models in survey sampling. (English summary) **2005j:62167**
Basawa, I. V. (*with* Vidyashankar, Anand N.) Quasilikelihood estimation for branching processes with immigration. (English summary) **2005h:62217**
Bertail, Patrice (*with* Clémençon, Stéphan) Edgeworth expansions of suitably normalized sample mean statistics for atomic Markov chains. (English and French summaries) **2005h:62218**
Burrage, Kevin *see* **Alcock, Jamie**
Ching, Wai Ki (*with* Fung, Eric S.; Ng, Michael K.) Higher-order Markov chain models for categorical data sequences. (English summary) **2005a:62185**
Clémençon, Stéphan *see* **Bertail, Patrice**, **2005h:62218**
Cui, Ningzhou *see* **Hong, Lang et al.**
Dalalyan, Arnak S. (*with* Kutoyants, Yurii) On second order minimax estimation of invariant density for ergodic diffusion. (English summary) **2005f:62128**
Dehay, D. (*with* Kutoyants, Yurii) On confidence intervals for distribution function and density of ergodic diffusion process. (English summary) **2005d:62131**
Ditlevsen, Susanne (*with* Sørensen, Michael) Inference for observations of integrated diffusion processes. (English summary) **2005c:62142**
Doukhan, Paul (*with* León, José R.) Asymptotics for the L^p-deviation of the variance estimator under diffusion. (English summary) **2005h:62219**
Duffie, Darrell (*with* Glynn, Peter W.) Estimation of continuous-time Markov processes sampled at random time intervals. (English summary) **2005e:62115**
Elliott, Robert J. *see* **Malcolm, W. P. et al.**, **2005g:62142**
Erland, Sveinung *see* **Rue, Håvard et al.**
Essebbar, Belkheir *see* **Assoudou, Souad**, **2005f:62127**
Fiocco, Marta (*with* van Zwet, Willem R.) Parameter estimation for the supercritical contact process. (English summary) **2005b:62175**
— (*with* van Zwet, Willem R.) Maximum likelihood estimation for the contact process. (English summary) (*see* **2005i:62005**)
Fuh, Cheng-Der On Bahadur efficiency of the maximum likelihood estimator in hidden Markov models. (English summary) **2005a:62186**
— (*with* Ip, Edward H.) Bootstrap and Bayesian bootstrap clones for censored Markov chains. (English summary) **2005f:62129**
Fung, Eric S. *see* **Ching, Wai Ki et al.**, **2005a:62185**
Gal'chuk, L. I. (*with* Pergamenshchikov, Sergeĭ) Nonparametric sequential estimation of the drift in diffusion processes via model selection. (English summary) **2005d:62132**
Glynn, Peter W. *see* **Duffie, Darrell**, **2005e:62115**
Gobet, Emmanuel (*with* Hoffmann, Marc; Reiß, Markus) Nonparametric estimation of scalar diffusions based on low frequency data. (English summary) **2005h:62220**
Groenewald, Pieter C. N. (*with* Schoeman, A. C.) Bayesian detection and analysis of changing transition matrices of stationary Markov chains. (English summary)
Heidergott, Bernd (*with* Hordijk, Arie) Single-run gradient estimation via measure-valued differentiation. (English summary) **2005k:62185**
van der Hoek, John *see* **Malcolm, W. P. et al.**, **2005g:62142**
Hoffmann, Marc *see* **Gobet, Emmanuel et al.**, **2005h:62220**
Holmes, Susan Stein's method for birth and death chains. (English summary) (*see* **2005i:62008**)
Hong, Lang (*with* Cui, Ningzhou; Pronobis, Mark T.; Scott, Stephen) Simultaneous ground moving target tracking and identification using wavelets features from HRR data. (English summary)
Hordijk, Arie *see* **Heidergott, Bernd**, **2005k:62185**
Huber, Mark (*with* Reinert, Gesine) The stationary distribution in the antivoter model: exact sampling and approximations. (English summary) **2005m:62149**
Ip, Edward H. *see* **Fuh, Cheng-Der**, **2005f:62129**
Jacob, Christine *see* **Lalam, Nadia**, **2005j:62168**
Kessler, Mathieu (*with* Sørensen, Michael) On time-reversibility and estimating functions for Markov processes. (English summary)
Kim, Chang-Jin Markov-switching models with endogenous explanatory variables. (English summary)
Kumbhakar, Subal C. *see* **Tsionas, Efthymios G.**
Kutoyants, Yurii On parameter estimation by contaminated observations of ergodic diffusion processes. (English summary) **2005e:62116**
— On invariant density estimation for ergodic diffusion processes. (English summary)
— *see also* **Dehay, D.**, **2005d:62131** *and* **Dalalyan, Arnak S.**, **2005f:62128**
Lalam, Nadia (*with* Jacob, Christine) Estimation of the offspring mean of a supercritical or near-critical size-dependent branching process. (English and French summaries) **2005j:62168**

León, José R. *see* **Doukhan, Paul**, 2005h:62219
Li, Bing[1] *see* **Wang, Chun Ling[2]**, 2005b:62176
Ma, Hong[1] (*with* Wang, Mao Hua[3]) Wavelet transformation of hidden Markov processes and its parametric estimation. (Chinese. English and Chinese summaries) **2005k:62186**
Malcolm, W. P. (*with* Elliott, Robert J.; van der Hoek, John) A deterministic discretisation-step upper bound for state estimation via Clark transformations. **2005g:62142**
Mil′shteĭn, G. N. (*with* Schoenmakers, John G. M.; Spokoĭnyĭ, V. G.) Transition density estimation for stochastic differential equations via forward-reverse representations. (English summary) **2005f:62130**
Müller, Ursula U. (*with* Wefelmeyer, Wolfgang) Autoregression, estimating functions, and optimality criteria. (English summary) **2005a:62187**
Mykland, Per Aslak *see* **Aït-Sahalia, Yacine**, 2005h:62216
Ng, Michael K. *see* **Ching, Wai Ki et al.**, 2005a:62185
Patil, Prakash N. (*with* Wood, Andrew T. A.) Counting process intensity estimation by orthogonal wavelet methods. (English summary) **2005e:62117**
Pergamenshchikov, Sergeĭ *see* **Gal′chuk, L. I.**, 2005d:62132
Perron, François *see* **Atchadé, Yves F.**, 2005j:62166
Pritchard, Geoffrey (*with* Scott, David J.) The eigenvalues of the empirical transition matrix of a Markov chain. (English summary) **2005d:62133**
Pronobis, Mark T. *see* **Hong, Lang et al.**
Radulović, Dragan Renewal type bootstrap for Markov chains. (English summary) **2005g:62143**
Reinert, Gesine *see* **Huber, Mark**, 2005m:62149
Reiß, Markus *see* **Gobet, Emmanuel et al.**, 2005h:62220
Ross, Andrew M. (*with* Shanthikumar, J. George) Estimating effective capacity in Erlang loss systems under competition. (English summary)
Rue, Håvard (*with* Steinsland, Ingelin; Erland, Sveinung) Approximating hidden Gaussian Markov random fields. (English summary)
Sakamoto, Yuji (*with* Yoshida, Nakahiro) Asymptotic expansion formulas for functionals of ε-Markov processes with a mixing property. (English summary) **2005h:62221**
Schoeman, A. C. *see* **Groenewald, Pieter C. N.**
Schoenmakers, John G. M. *see* **Mil′shteĭn, G. N. et al.**, 2005f:62130
Scott, David J. *see* **Pritchard, Geoffrey**, 2005d:62133
Scott, Stephen *see* **Hong, Lang et al.**
Seneta, Eugene Fitting the variance-gamma model to financial data. (English summary) **2005d:62134**
Shanthikumar, J. George *see* **Ross, Andrew M.**
Sørensen, Michael *see* **Ditlevsen, Susanne**, 2005c:62142 *and* **Kessler, Mathieu**
Spokoĭnyĭ, V. G. *see* **Mil′shteĭn, G. N. et al.**, 2005f:62130
Steinsland, Ingelin *see* **Rue, Håvard et al.**
Tsionas, Efthymios G. (*with* Kumbhakar, Subal C.) Markov switching stochastic frontier model. (English summary)
Uchida, Masayuki Estimation for dynamical systems with small noise from discrete observations. (English summary) **2005c:62143**
— Minimum contrast estimation for discretely observed diffusion processes with small dispersion parameter. (English summary) **2005m:62150**
Vandekerkhove, Pierre Consistent and asymptotically normal parameter estimates for hidden Markov mixtures of Markov models. (English summary) **2005h:62222**
Vidyashankar, Anand N. *see* **Basawa, I. V.**, 2005h:62217
Wang, Chun Ling[2] (*with* Li, Bing[1]) A maximum likelihood estimation for two-state Markov-modulated Poisson processes. (Chinese. English and Chinese summaries) **2005b:62176**
Wang, Mao Hua[3] *see* **Ma, Hong[1]**, 2005k:62186
Wefelmeyer, Wolfgang *see* **Müller, Ursula U.**, 2005a:62187
Wood, Andrew T. A. *see* **Patil, Prakash N.**, 2005e:62117
Yoshida, Nakahiro *see* **Sakamoto, Yuji**, 2005h:62221
van Zwet, Willem R. *see* **Fiocco, Marta**, 2005b:62175 *and* (**2005i:62005**)

Items with secondary classifications in 62M05

Ben-Gal, Irad *see* **Shmilovici, Armin**
Berg, Bernd A. ★ Markov chain Monte Carlo simulations and their statistical analysis.
Blanke, Delphine *see* **Bosq, Denis**, 2005e:62055
Boguslavskiĭ, I. A. Estimation of a matrix of intensities for model of Markov process. (English summary)
Bosq, Denis (*with* Blanke, Delphine) Local superefficiency of data-driven projection density estimators in continuous time. (English and Catalan summaries) **2005e:62055**
Bura, Efstathia *see* **Hall, Peter G.**, 2005m:62076
Cavaliere, Giuseppe *see* **Gardini, Attilio et al.**
Chi, Zhiyi Limit laws of estimators for critical multi-type Galton-Watson processes. (English summary) **2005m:60189**
Costa, Michele *see* **Gardini, Attilio et al.**
Diaconis, Persi *see* **Stein's method: expository lectures and applications**, 2005i:62008 *and* **Stein, Charles et al.**, 2005j:65005
Durbin, Richard Finding genes in the human genome with hidden Markov models. (English summary) (*see* **2005c:62005**)
Edeson, Robert O. *see* **Khan, R. Nazim et al.**
Fan, Juanjuan *see* **Levine, Richard A.**, 2005c:65005
Gardini, Attilio (*with* Cavaliere, Giuseppe; Costa, Michele) Fundamentals and asset price dynamics. (English summary)
Guo, Xin A regime switching model: statistical estimation, empirical evidence, and change point detection. (English summary) (*see* **2005b:91010**)
Hall, Peter G. (*with* Bura, Efstathia) Nonparametric methods of inference for finite-state, inhomogeneous Markov processes. (English summary) **2005m:62076**
Hanson, Floyd B. (*with* Westman, John J.; Zhu, Zongwu) Multinomial maximum likelihood estimation of market parameters for stock jump-diffusion models. (English summary) **2005g:60131**
Holmes, Susan *see* **Stein's method: expository lectures and applications**, 2005i:62008 *and* **Stein, Charles et al.**, 2005j:65005
Iacus, Stefano M. (*with* Negri, Ilia) Estimating unobservable signal by Markovian noise induction: when noise helps in statistics! (English summary)
Khan, R. Nazim (*with* Martinac, Boris; Madsen, Barry W.; Milne, Robin K.; Yeo, Geoffrey F.; Edeson, Robert O.) Hidden Markov analysis of mechanosensitive ion channel gating. (English summary)
Khasminskii, R. Z. On-line nonparametric estimation. (English and Catalan summaries) **2005f:62057**
Kleinhof, Martinsh (*with* Paramonov, Yuri; Paramonova, Alexandra) Regression model based on Markov chain theory for composite fatigue curve approximation. (English summary)
Levine, Richard A. (*with* Fan, Juanjuan) An automated (Markov chain) Monte Carlo EM algorithm. (English summary) **2005c:65005**
Limnios, Nikolaos A functional central limit theorem for the empirical estimator of a semi-Markov kernel. (English summary) **2005b:60083**
Liu, Aiyi A simple low-bias estimate following a sequential test with linear boundaries. (English summary) (*see* **2005i:62004**)
Macdonald, Angus S. (*with* Waters, Howard R.; Wekwete, Chessman T.) A model for coronary heart disease and stroke with applications to critical illness insurance underwriting. I. The model. (English summary)
— (*with* Waters, Howard R.; Wekwete, Chessman T.) A model for coronary heart disease and stroke with applications to critical illness insurance underwriting. II. Applications. (English summary)
Madsen, Barry W. *see* **Khan, R. Nazim et al.**
Maller, Ross A. *see* **Szimayer, Alexander**, 2005b:62173
Martinac, Boris *see* **Khan, R. Nazim et al.**
Masuda, Hiroki Classical method of moments for partially and discretely observed ergodic models. (English summary) **2005h:62229**
Milne, Robin K. *see* **Khan, R. Nazim et al.**
Molla, S. (*with* Torrésani, B.) A hybrid scheme for encoding audio signal using hidden Markov models of waveforms. (English summary) **2005m:94010**
Negri, Ilia *see* **Iacus, Stefano M.**
Palmowski, Zbigniew A note on importance sampling simulation for a germ-grain model. (English summary) **2005d:60019**
Pan, Quan *see* **Zhang, Lei et al.**, 2005f:94031
Paramonov, Yuri *see* **Kleinhof, Martinsh et al.**
Paramonova, Alexandra *see* **Kleinhof, Martinsh et al.**
Penev, Spiridon (*with* Peng, Hanxiang; Schick, Anton; Wefelmeyer, Wolfgang) Efficient estimators for functionals of Markov chains with parametric marginals. (English summary) **2005a:62121**
Peng, Hanxiang *see* **Penev, Spiridon et al.**, 2005a:62121
Rachedi, Fatiha Vitesse de convergence de l'estimateur crible d'un ARB(1). (English and French summaries) [Rate of convergence of the sieve estimator of an ARB(1) process] **2005m:62170**
Reinert, Gesine *see* **Stein, Charles et al.**, 2005j:65005
Schick, Anton *see* **Penev, Spiridon et al.**, 2005a:62121
Shmilovici, Armin (*with* Ben-Gal, Irad) Using a compressibility measure to distinguish coding and noncoding DNA. (English summary)
Sørensen, Michael (*with* Uchida, Masayuki) Small-diffusion asymptotics for discretely sampled stochastic differential equations. (English summary) **2005b:60211**
Stein, Charles (*with* Diaconis, Persi; Holmes, Susan; Reinert, Gesine) Use of exchangeable pairs in the analysis of simulations. (English summary) **2005j:65005**
Szimayer, Alexander (*with* Maller, Ross A.) Testing for mean reversion in processes of Ornstein-Uhlenbeck type. (English summary) **2005b:62173**
Torrésani, B. *see* **Molla, S.**, 2005m:94010
Uchida, Masayuki *see* **Sørensen, Michael**, 2005b:60211
Waters, Howard R. *see* **Macdonald, Angus S. et al.**
Wefelmeyer, Wolfgang *see* **Penev, Spiridon et al.**, 2005a:62121
Wekwete, Chessman T. *see* **Macdonald, Angus S. et al.**
Westman, John J. *see* **Hanson, Floyd B. et al.**, 2005g:60131
Wu, Shu (*with* Zeng, Yong[1]) Affine regime-switching models for interest rate term structure. (English summary) **2005f:62162**
Wu, Xiaolin[1] *see* **Zhang, Lei et al.**, 2005f:94031
Xu, Zhi Yan (*with* Zheng, Wei An) Sharp error estimate for maximum likelihood estimator of nonstationary diffusion processes. (English summary) **2005m:60180**
Yeo, Geoffrey F. *see* **Khan, R. Nazim et al.**
Zeng, Yong[1] Estimating stochastic volatility via filtering for the micromovement of asset prices. (English summary) **2005c:91069**
— *see also* **Wu, Shu**, 2005f:62162
Zhang, Hong-Cai *see* **Zhang, Lei et al.**, 2005f:94031
Zhang, Lei (*with* Wu, Xiaolin[1]; Pan, Quan; Zhang, Hong-Cai) Multiresolution modeling and estimation of multisensor data. (English summary) **2005f:94031**
Zheng, Wei An *see* **Xu, Zhi Yan**, 2005m:60180
Zhu, Zongwu *see* **Hanson, Floyd B. et al.**, 2005g:60131

Items listed otherwise than by author

Stanford, CA ★ Stein's method: expository lectures and applications. **2005i:62008**
Stein's method: expository lectures and applications ★ Stein's method: expository lectures and applications. **2005i:62008**

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Berkes, István (*with* Horváth, Lajos; Kokoszka, P. S.) Testing for parameter constancy in GARCH(p, q) models. (English summary) **2005k:62187**
Bosq, Denis Moyennes mobiles hilbertiennes standard. (English and French summaries) [Standard moving averages in Hilbert spaces] **2005k:62188**
Bravo, Francesco Blockwise empirical entropy tests for time series regressions. (English summary) **2005h:62223**
Burridge, Peter (*with* Taylor, A. M. Robert) Bootstrapping the HEGY seasonal unit root tests. (English summary)

Busetti, Fabio (*with* Taylor, A. M. Robert) Tests of stationarity against a change in persistence. (English summary) **2005k:62189**
Crowder, Martin *see* **Lawless, Jerald F.**
Davies, P. Laurie (*with* Krämer, Walter) The Dickey-Fuller test for exponential random walks. (English summary) **2005c:62144**
Dell'Aquila, Rosario (*with* Ronchetti, Elvezio) Robust tests of predictive accuracy. (English summary)
Duchesne, Pierre *see* **El Himdi, Khalid et al.**, (2005m:62007)
El Himdi, Khalid (*with* Roy, Roch; Duchesne, Pierre) Tests for non-correlation of two multivariate time series: a nonparametric approach. (English summary) (*see* **2005m:62007**)
Fernandes, Marcelo (*with* Grammig, Joachim) Nonparametric specification tests for conditional duration models. (English summary) **2005k:62190**
Grammig, Joachim *see* **Fernandes, Marcelo**, 2005k:62190
Haldrup, Niels (*with* Montañes Bernal, Antonio; Sansó Rosselló, Andreu) Measurement errors and outliers in seasonal unit root testing. (English summary) **2005k:62191**
Horváth, Lajos *see* **Berkes, István et al.**, 2005k:62187
Kapetanios, George Unit-root testing against the alternative hypothesis of up to m structural breaks. (English summary)
Kębłowski, Piotr (*with* Welfe, Aleksander) The ADF-KPSS test of the joint confirmation hypothesis of unit autoregressive root. (English summary)
Kokoszka, P. S. *see* **Berkes, István et al.**, 2005k:62187
Krämer, Walter *see* **Davies, P. Laurie**, 2005c:62144
Lawless, Jerald F. (*with* Crowder, Martin) Covariates and random effects in a gamma process model with application to degradation and failure. (English summary)
Marron, J. S. *see* **Park, Cheolwoo et al.**
Martin, Richard John *see* **Scaccia, L.**, 2005k:62192
Montañes Bernal, Antonio *see* **Haldrup, Niels et al.**, 2005k:62191
Pantelidis, Theologos (*with* Pittis, Nikitas) Testing for Granger causality in variance in the presence of causality in mean. (English summary)
Park, Cheolwoo (*with* Marron, J. S.; Rondonotti, Vitaliana) Dependent SiZer: goodness-of-fit tests for time series models. (English summary)
Pittis, Nikitas *see* **Pantelidis, Theologos**
Ronchetti, Elvezio *see* **Dell'Aquila, Rosario**
Rondonotti, Vitaliana *see* **Park, Cheolwoo et al.**
Roy, Roch *see* **El Himdi, Khalid et al.**, (2005m:62007)
Sansó Rosselló, Andreu *see* **Haldrup, Niels et al.**, 2005k:62191
Scaccia, L. (*with* Martin, Richard John) Testing axial symmetry and separability of lattice processes. (English summary) **2005k:62192**
Sofronov, G. Yu. An asymptotically d-optimal test in the problem of a posteriori change-point detection. (Russian. Russian summary) **2005m:62151**
Taylor, A. M. Robert *see* **Busetti, Fabio**, 2005k:62189 *and* **Burridge, Peter**
Wang, Li Hong[1] Limit theorems in change-point problems with multivariate long-range dependent observations. (English summary) **2005d:62135**
Welfe, Aleksander *see* **Kębłowski, Piotr**

Items with secondary classifications in 62M07

Anderson, T. W. (*with* Stephens, Michael A.) A goodness-of-fit test for AR(1) models and power against state space alternatives. (English summary) (*see* **2005c:62005**)
Baharumshah, Ahmad Zubaidi *see* **Lau, Evan**
Bai, Jushan (*with* Ng, Serena) Tests for skewness, kurtosis, and normality for time series data. (English summary) **2005h:62232**
Baragona, Roberto (*with* Battaglia, Francesco; Cucina, Domenico) Estimating threshold subset autoregressive moving-average models by genetic algorithms. (English summary)
Battaglia, Francesco *see* **Baragona, Roberto et al.**
Bec, Frédérique (*with* Ben Salem, Mélika; Carrasco, Marine) Tests for unit-root versus threshold specification with an application to the purchasing power parity relationship. (English summary) **2005k:62198**
Ben Salem, Mélika *see* **Bec, Frédérique et al.**, 2005k:62198
Berkes, István (*with* Horváth, Lajos; Kokoszka, P. S.) A weighted goodness-of-fit test for Garch(1, 1) specification. (English and Lithuanian summaries) **2005j:62174**
Bianchi, Sergio A new distribution-based test of self-similarity. (English summary) **2005d:62137**
Böhm, Stephan (*with* Schmidt, Volker[1]) Asymptotic properties of estimators for the volume fractions of jointly stationary random sets. (English summary) **2005j:62193**
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Cavaliere, Giuseppe Unit root tests under time-varying variances. (English summary) **2005d:62138**
Chen, Rong[1] *see* **Hjellvik, Vidar et al.**, 2005f:62138
Choi, In Subsampling vector autoregressive tests of linear constraints. (English summary) **2005f:62135**
Clark, Todd E. (*with* McCracken, Michael W.) The power of tests of predictive ability in the presence of structural breaks. (English summary)
Cucina, Domenico *see* **Baragona, Roberto et al.**
Falk, Barry *see* **Roy, Anindya et al.**, 2005h:62259
Ferenstein, Elżbieta Z. (*with* Gąsowski, Mirosław) Modelling stock returns with AR-GARCH processes. (English and Catalan summaries)
Ferreira García, Eva (*with* Stute, Winfried) Testing for difference between conditional means in a time series context. (English summary) **2005c:62153**
Fuller, Wayne A. *see* **Roy, Anindya et al.**, 2005h:62259
Gaas, O. V. On the asymptotic power of the likelihood ratio test for testing the hypothesis of the nonstationarity of an autoregressive series with Cauchy innovations. (Russian. Russian summary) **2005h:62242**
Gąsowski, Mirosław *see* **Ferenstein, Elżbieta Z.**
Gil-Alana, Luis A. A joint test of fractional integration and structural breaks at a known period of time. (English summary)
Gospodinov, Nikolay Asymptotic confidence intervals for impulse responses of near-integrated processes. (English summary) **2005g:62153**
Hall, Alastair R. ★ Generalized method of moments. **2005m:62002**
Hallin, Marc (*with* Saidi, Abdessamad) Testing non-correlation and non-causality between multivariate ARMA time series. (English summary)
Harvey, Andrew C. Tests for cycles. (English summary) (*see* **2005c:62005**)
Harvey, David I. (*with* Leybourne, Stephen J.) On testing for unit roots and the initial observation. (English summary) **2005k:62205**
Hjellvik, Vidar (*with* Chen, Rong[1]; Tjøstheim, Dag) Nonparametric estimation and testing in panels of intercorrelated time series. (English summary) **2005f:62138**
Horváth, Lajos *see* **Berkes, István et al.**, 2005j:62174
Jansson, Michael Point optimal tests of the null hypothesis of cointegration. (English summary) **2005f:62140**
Juhl, Ted A Lagrange multiplier stationarity test using covariates. (English summary) **2005h:62247**
— (*with* Xiao, Zhijie) Testing for cointegration using partially linear models. (English summary) **2005k:62206**
Kim, Tae-Hwan (*with* Leybourne, Stephen J.; Newbold, Paul) Behaviour of Dickey-Fuller unit-root tests under trend misspecification. (English summary)
Kobayashi, Masahito (*with* Shi, Xiuhong) Testing for EGARCH against stochastic volatility models. (English summary) **2005j:62183**
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Kongsted, Hans Christian Testing the nominal-to-real transformation. (English summary) **2005i:62126**
Koul, Hira L. (*with* Li, Fang[5]) Testing for superiority among two time series. (English summary) **2005i:62127**
Lau, Evan (*with* Baharumshah, Ahmad Zubaidi) Mean-reverting behavior of current account in Asian countries. (English summary)
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Li, Fang[5] *see* **Koul, Hira L.**, 2005i:62127
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Liu, Jianhua[2] *see* **Stoica, Petre et al.**, 2005d:94047
Marmol, Francesc (*with* Velasco, Carlos) Consistent testing of cointegrating relationships. (English summary) **2005e:62125**
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Newbold, Paul *see* **Kim, Tae-Hwan et al.**
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— Optimal residual-based tests for fractional cointegration and exchange rate dynamics. (English summary) **2005b:62187**
Nordström, Fredrik ★ Interference rejection and channel detection in mobile communication. **2005b:94025**
Oh, Yu-Jin (*with* So, Beong Soo) Robust unit root tests for seasonal autoregressive process. (English summary) **2005b:62188**
Pitarakis, Jean-Yves Least squares estimation and tests of breaks in mean and variance under misspecification. (English summary) **2005b:62189**
Roy, Anindya (*with* Falk, Barry; Fuller, Wayne A.) Testing for trend in the presence of autoregressive error. (English summary) **2005h:62259**
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Schmidt, Volker[1] *see* **Böhm, Stephan**, 2005j:62193
Shi, Ning-Zhong *see* **Wang, De Hui et al.**, 2005k:62218
Shi, Xiuhong *see* **Kobayashi, Masahito**, 2005j:62183
Shively, Philip A. Testing for a unit root in ARIMA processes. (English summary)
Sibbertsen, Philipp Long memory versus structural breaks: an overview. (English summary)
So, Beong Soo *see* **Oh, Yu-Jin**, 2005b:62188
Song, Li Xin[1] *see* **Wang, De Hui et al.**, 2005k:62218
Stephens, Michael A. *see* **Anderson, T. W.**, (2005c:62005)
Stoica, Petre (*with* Liu, Jianhua[2]; Li, Jian[4]) Maximum-likelihood double differential detection clarified. (English summary) **2005d:94047**
Stute, Winfried *see* **Ferreira García, Eva**, 2005c:62153
Tanaka, Katsuto Applications of wavelet analysis to statistics. (Japanese)
Taylor, A. M. Robert Variance ratio tests of the seasonal unit root hypothesis. (English summary)
Tjøstheim, Dag *see* **Hjellvik, Vidar et al.**, 2005f:62138
Velasco, Carlos *see* **Marmol, Francesc**, 2005e:62125
Wang, De Hui (*with* Song, Li Xin[1]; Shi, Ning-Zhong) Estimation and testing for the parameters of AR(p)-ARCH(q) under ordered restriction. **2005k:62218**
Xiao, Zhijie *see* **Juhl, Ted**, 2005k:62206

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Abutaleb, Ahmed S. Instantaneous frequency estimation when the amplitude is a stochastic process using stochastic calculus and bootstrapping. (English summary) **2005m:62152**
Anh, V. V. (*with* Leonenko, N. N.; Sakhno, L. M.) Quasi-likelihood-based higher-order spectral estimation of random fields with possible long-range dependence. (English summary) **2005j:62169**
Assunção, Renato Score tests for pairwise interaction parameters of Gibbs point processes. (English summary)
Basu, A. K. (*with* Sen Roy, Sugata) Asymptotic distribution of the estimators in a vector autoregressive model under general set-up of the roots. (English summary) **2005h:62224**
Bauer, Dietmar Estimating linear dynamical systems using subspace methods. (English summary)
Bayraktar, Erhan (*with* Poor, H. Vincent; Sircar, K. Ronnie) Estimating the fractal dimension of the S&P 500 index using wavelet analysis. (English summary) **2005c:62145**
Benkherouf, Lakdere Measure change techniques. A tutorial. I. (English summary)
Bian, Guorui *see* **Wong, Wing-Keung**, 2005i:62121
Borkar, Vivek S. (*with* Juneja, S.; Kherani, A. A.) Performance analysis conditioned on rare events: an adaptive simulation scheme. (English summary)
Brockwell, Peter J. (*with* Dahlhaus, Rainer; Trindade, A. Alexandre) Modified Burg algorithms for multivariate subset autoregression. (English summary)
Capobianco, Enrico Random processes approximation via kernel operators. (English summary)

Cavalier, L. Estimation in a problem of fractional integration. (English summary) **2005h:62225**

Conti, Pier Luigi (*with* Lijoi, Antonio; Ruggeri, Fabrizio) Long-range dependence and performance in telecom networks. (English summary)

Dahlhaus, Rainer *see* **Brockwell, Peter J. et al.**

De Giovanni, Livia (*with* Naldi, Maurizio) A non linear wavelet based estimator for long memory processes. (English summary)

Dehling, Herold G. (*with* Sharipov, O. Sh.) Estimation of mean and covariance operator for Banach space valued autoregressive processes with dependent innovations. (English summary) **2005k:62193**

De Oliveira, Victor Bayesian inference and prediction of Gaussian random fields based on censored data. (English summary)

Douc, Randal (*with* Moulines, Éric; Rydén, Tobias) Asymptotic properties of the maximum likelihood estimator in autoregressive models with Markov regime. (English summary) **2005h:62226**

Ghosh, Debashis Accelerated rates regression models for recurrent failure time data. (English summary) **2005c:62146**

Gloter, A. (*with* Hoffmann, Marc) Stochastic volatility and fractional Brownian motion. (English summary) **2005j:62170**

Hoffmann, Marc *see* **Gloter, A., 2005j:62170**

Huang, Jianhua Z. (*with* Shen, Haipeng) Functional coefficient regression models for non-linear time series: a polynomial spline approach. (English summary) **2005f:62131**

Ibarrola Muñoz, María del Pilar (*with* Vélez Ibarrola, Ricardo) On Behrens-Fisher problem for continuous time Gaussian processes. (English summary) **2005f:62132**

— (*with* Pérez-Palomares, A.) Linear completeness in a continuous time Gauss-Markov model. (English summary) **2005h:62227**

Ibragimov, Il'dar Abdulovich Estimation of analytic spectral density of Gaussian stationary processes. (English summary) **2005h:62228**

Ilyukevich, T. I. *see* **Trush, N. N., 2005m:62154**

Janečková, Hana (*with* Prášková, Zuzana) CWLS and ML estimates in a heteroscedastic RCA(1) model. (English summary) **2005j:62171**

Jensen, Søren Tolver (*with* Rahbek, Anders) Asymptotic inference for nonstationary GARCH. (English summary) **2005k:62194**

Juneja, S. *see* **Borkar, Vivek S. et al.**

Kherani, A. A. *see* **Borkar, Vivek S. et al.**

Konev, Viktor (*with* Shapovalov, D. V.) On the guaranteed estimation of the spectral density of an autoregression-moving average process. (Russian. Russian summary) **2005g:62144**

Kundu, Debasis (*with* Nandi, Swagata[2]) Determination of discrete spectrum in a random field. (English summary) **2005c:62147**

Kutoyants, Yurii On delay estimation for stochastic differential equations. (English summary)

Leonenko, N. N. *see* **Anh, V. V. et al., 2005j:62169**

Li, Yun Xia[2] *see* **Zhang, Li Xin[1], 2005k:62195**

Lijoi, Antonio *see* **Conti, Pier Luigi et al.**

Ling, Neng Xiang Mean-square consistency of kernel density estimation with linear process error. (Chinese. English and Chinese summaries) **2005g:62145**

Linton, Oliver B. Nonparametric inference for unbalanced time series data. (English summary)

Lu, Fletcher (*with* Schuurmans, Dale) Model-based least-squares policy evaluation. (English summary) (*see* **2005f:68004**)

Masuda, Hiroki Classical method of moments for partially and discretely observed ergodic models. (English summary) **2005h:62229**

Moulines, Éric *see* **Douc, Randal et al., 2005h:62226**

Mrkvička, Tomáš Estimation variances for parameterized marked Poisson processes and for parameterized Poisson segment processes. (English summary) **2005e:62118**

Naldi, Maurizio *see* **De Giovanni, Livia**

Nandi, Swagata[2] *see* **Kundu, Debasis, 2005c:62147**

Olhede, Sofia C. (*with* Walden, Andrew T.) 'Analytic' wavelet thresholding. (English summary) **2005j:62172**

Peng, Hanxiang (*with* Schick, Anton) Estimation of linear functionals of bivariate distributions with parametric marginals. (English summary) **2005d:62136**

Pérez-Palomares, A. *see* **Ibarrola Muñoz, María del Pilar, 2005h:62227**

Pons, Odile Estimation of semi-Markov models with right-censored data. **2005h:62230**

— Estimation in a model for a semi-Markov process with covariates under right-censoring. (English summary) **2005f:62133**

Poor, H. Vincent *see* **Bayraktar, Erhan et al., 2005c:62145**

Prakasa Rao, B. L. S. Parametric estimation for linear stochastic differential equations driven by fractional Brownian motion. (English summary) **2005a:62188**

— Self-similar processes, fractional Brownian motion and statistical inference. (English summary) **2005m:62153**

— Identification for linear stochastic systems driven by fractional Brownian motion. (English summary) **2005g:62146**

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Sakhno, L. M. *see* **Anh, V. V. et al., 2005j:62169**

Sapozhnikov, P. N. Estimation of parameters of a compound Poisson process. **2005g:62147**

Schick, Anton (*with* Wefelmeyer, Wolfgang) Estimating invariant laws of linear processes by U-statistics. (English summary) **2005e:62119**

— *see also* **Peng, Hanxiang, 2005d:62136**

Schoenberg, Frederic Paik Consistent parametric estimation of the intensity of a spatial-temporal point process. (English summary) **2005g:62148**

Schuurmans, Dale *see* **Lu, Fletcher, (2005f:68004)**

Sen Roy, Sugata *see* **Basu, A. K., 2005h:62224**

Shapovalov, D. V. *see* **Konev, Viktor, 2005g:62144**

Sharipov, O. Sh. *see* **Dehling, Herold G., 2005k:62193**

Shen, Haipeng *see* **Huang, Jianhua Z., 2005f:62131**

Sircar, K. Ronnie *see* **Bayraktar, Erhan et al., 2005c:62145**

Spanos, Pol-T. D. (*with* Tezcan, Jale; Tratskas, Petros) Stochastic processes evolutionary spectrum estimation via harmonic wavelets. (English summary)

Tezcan, Jale *see* **Spanos, Pol-T. D. et al.**

Tratskas, Petros *see* **Spanos, Pol-T. D. et al.**

Trindade, A. Alexandre *see* **Brockwell, Peter J. et al.**

Trush, N. N. (*with* Ilyukevich, T. I.) Estimation of the expectation of stationary random processes with irregular observations. (Russian. English and Russian summaries) **2005m:62154**

Vélez Ibarrola, Ricardo *see* **Ibarrola Muñoz, María del Pilar, 2005f:62132**

Walden, Andrew T. *see* **Olhede, Sofia C., 2005j:62172**

Wefelmeyer, Wolfgang *see* **Schick, Anton, 2005e:62119**

Wong, Wing-Keung (*with* Bian, Guorui) Estimating parameters in autoregressive models with asymmetric innovations. (English summary) **2005i:62121**

Zhang, Li Xin[1] (*with* Li, Yun Xia[2]) Multiple change-points estimation of moving-average processes under dependence assumptions. (English summary) **2005k:62195**

Items with secondary classifications in 62M09

Afchain, Anne-Laure Non-parametric estimation on lifetimes of subjects exposed to radiation from a semi-Markov process. (English summary) **2005e:62046**

Aggoun, Lakhdar Recursive estimation of the claim rates and sizes in an insurance model. **2005h:62282**

Andrieu, Christophe *see* **Vermaak, Jaco et al.**

Bakouch, H. S. *see* **Teamah, A. A. M., 2005j:62190**

Balakrishna, N. (*with* Kesavan Nampoothiri, C.) A Cauchy autoregressive model and its applications. (English summary)

Baragona, Roberto (*with* Battaglia, Francesco; Cucina, Domenico) Fitting piecewise linear threshold autoregressive models by means of genetic algorithms. (English summary)

Barbu, Vlad (*with* Limnios, Nikolaos) Discrete time semi-Markov processes for reliability and survival analysis—a nonparametric estimation approach. (English summary) (*see* **2005d:62008**)

Battaglia, Francesco (*with* Orfei, Lia) Outlier detection and estimation in nonlinear time series. (English summary)

— *see also* **Baragona, Roberto et al.**

Bhattacharyya, B. B. (*with* Richardson, Gary D.; Zhang, Jie) Parameter estimation in a nonstationary spatial autoregression model. (English summary)

Blanke, Delphine Local Hölder exponent estimation for multivariate continuous time processes. (English summary) **2005b:62067**

— Sample paths adaptive density estimation. (English summary) **2005h:62122**

— *see also* **Bosq, Denis, 2005e:62055**

Bosq, Denis (*with* Blanke, Delphine) Local superefficiency of data-driven projection density estimators in continuous time. (English and Catalan summaries) **2005e:62055**

Bursztyn, Dizza *see* **Steinberg, David M., 2005f:62047**

Chen, Rong[1] *see* **Hjellvik, Vidar et al., 2005f:62138**

Chen, Sheau-Chyi *see* **Wang, Kuo-Hsiung et al.**

Chen, Yuguo (*with* Xie, Junyi; Liu, Jun S.) Stopping-time resampling for sequential Monte Carlo methods. (English summary)

Chow, Winston C. (*with* Wegman, Edward J.) Modeling continuous time series driven by fractional Gaussian noise. (English summary) **2005k:60176**

Cucina, Domenico *see* **Baragona, Roberto et al.**

Dai, Ming (*with* Guo, Wensheng) Multivariate spectral analysis using Cholesky decomposition. (English summary) **2005c:62170**

Damon, Julien (*with* Guillas, Serge) Estimation and simulation of autoregressive Hilbertian processes with exogenous variables. (English summary) **2005h:62238**

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Diongue, Abdou Kâ (*with* Guégan, Dominique) Estimating parameters of a k-factor GIGARCH process. (English and French summaries) **2005m:62158**

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Francq, Christian (*with* Gautier, Antony) Large sample properties of parameter least squares estimates for time-varying ARMA models. (English summary) **2005g:62151**

— (*with* Gautier, Antony) Estimation of time-varying ARMA models with Markovian changes in regime. (English summary) **2005i:62124**

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Frühwirth-Schnatter, Sylvia Efficient Bayesian parameter estimation. (English summary) (*see* **2005c:62005**)

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Sun, Wanlong (*with* Li, Hongzhe) Ascertainment-adjusted maximum likelihood estimation for the additive genetic gamma frailty model. (English summary)
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Abadir, Karim M. (*with* Talmain, Gabriel) Autocovariance functions of series and of their transforms. (English summary) **2005k:62196**

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— (*with* Battaglia, Francesco; Cucina, Domenico) Estimating threshold subset autoregressive moving-average models by genetic algorithms. (English summary)
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Wall, Kent D. *see* **Stoffer, David S., (2005c:62005)**

Wang, Chuan Mei (*with* Tong, Heng Qing) Semiparametric multivariate GARCH models. (Chinese. English and Chinese summaries) **2005m:62174**

Wang, De Hui (*with* Song, Li Xin[1]; Shi, Ning-Zhong) Estimation and testing for the parameters of AR(p)-ARCH(q) under ordered restriction. **2005k:62218**

— *see also* **Huang, Xiao Wei et al., 2005d:62142**

Wang, Hai Bin (*with* Wei, Bo Cheng; Chen, Hao Qiu) The approximate third-order moments and bispectral density of a lower triangular bilinear time series model. (Chinese. English and Chinese summaries) **2005h:62261**

— (*with* Wei, Bo Cheng; Chen, Hao Qiu) Approximate third-order moments and bispectral density of the upper subdiagonal bilinear model. (Chinese. English and Chinese summaries) **2005f:62145**

— (*with* Wei, Bo Cheng) Separable lower triangular bilinear model. (English summary) **2005d:62151**

Wang, Hsiao-Fan *see* **Tsaur, Ruey-Chyn et al., 2005m:62173**

Wang, Nai (*with* Ruan, Jiong) Principal component cluster analysis of ECG time series based on Lyapunov exponent spectrum. (English summary) **2005k:62219**

Wang, Xiao Guang (*with* Song, Li Xin[1]) Least squares estimation for the ARCH model under ordered restriction. (Chinese. English and Chinese summaries) **2005m:62175**

Wefelmeyer, Wolfgang *see* **Schick, Anton, 2005g:62163** *and* **Greenwood, Priscilla E. et al., (2005d:62008)**

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Wolf, Michael[3] *see* **Politis, Dimitris N. et al., 2005b:62190**

Wolff, Rodney C. *see* **Barnett, Adrian G.**

Wong, Heung (*with* Li, Wai-Keung) Errata: "Distribution of the cross-correlations of squared residuals in ARIMA models" [Canad. J. Statist. **24** (1996), no. 4, 489–502; MR1438419 (98g:62179)]. **2005j:62188**

Wu, Wei Biao (*with* Min, Wanli) On linear processes with dependent innovations. (English summary) **2005m:62176**

Wyłomańska, A. *see* **Makagon, A. et al., 2005i:62130**

Xiao, Zhijie *see* **Koenker, Roger, 2005c:62157** *and* **Juhl, Ted, 2005k:62206**

Xu, Mei (*with* Zhang, Shi Ying[1]; Fan, Zhi) Study on estimation of dominating frequency of non-stationary and long-memory time series. (Chinese. English and Chinese summaries) **2005e:62129**

Yahya, M. S. *see* **Zaharim, M. A. et al.**

Yajima, Yoshihiro *see* **Matsuda, Yasumasa, 2005e:62126**

Yan, Ai Jun (*with* Liu, Ci Hua) Two contemporaneous aggregations of GARCH processes. (Chinese. English and Chinese summaries) **2005k:62220**

Yang, Ce Ping (*with* Gao, Cheng Xiu) Stationarity of the solution for a stochastic time series model in the MA(2) series. (Chinese. English and Chinese summaries) **2005h:62262**

Yang, Jia-Chi O. *see* **Tsaur, Ruey-Chyn et al., 2005m:62173**

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Zaharim, M. A. (*with* Mohamed, I. B.; Yahya, M. S.) Outliers in simple bilinear time series model. (English summary)

Zalyapin, I. V. (*with* Gabrièlov, A. M.; Keilis-Borok, Vladimir) Multiscale trend analysis. (English summary)

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Zhang, Shi Ying[1] *see* **Xu, Mei et al., 2005e:62129**

Zhang, Wei[7] (*with* Lee, Lung-Fei) Simulation estimation of dynamic discrete choice panel models with accelerated importance samplers. (English summary)

Zhao, Xue Jing *see* **Su, Jin Xia et al.**

Ziegelmann, Flávio A. *see* **Kirchner, Rosane M. et al., (2005i:62007)**

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Al-Shanfari, Hatem (*with* Hossain, Md. Zakir; Bhatti, Muhammad I.) Model selection in the context of arbitrage pricing theory. (English summary)

Alvarez, Javier Dynamics and seasonality in quarterly panel data: an analysis of earnings mobility in Spain. (English summary)

Amendola, Alessandra (*with* Niglio, Marcella) Predictor distribution and forecast accuracy of threshold models. (English summary)

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Angle, John The dynamics of the distribution of wage and salary income in the non-metropolitan U.S. (English summary)

Anh, V. V. (*with* Leonenko, N. N.; Moldavs′ka, E. N.; Sakhno, L. M.) Estimation of spectral densities with multiplicative parameter. (English summary) **2005f:60117**

— (*with* McVinish, R.) Completely monotone property of fractional Green functions. (English summary) **2005f:26013**

— (*with* Knopova, V. P.; Leonenko, N. N.) Continuous-time stochastic processes with cyclical long-range dependence. (English summary) **2005e:60079**

Atakhanova, Zauresh *see* **Khindanova, Irina et al., (2005b:91009)**

Aucremanne, L. (*with* Brys, G.; Hubert, Mia; Rousseeuw, Peter J.; Struyf, Anja) A study of Belgian inflation, relative prices and nominal rigidities using new robust measures of skewness and tail weight. (English summary) (*see* **2005c:62006**)

Ausloos, Marcel Statistical physics in meteorology. (English summary) **2005a:86018**

Azad, Rajeev K. (*with* Subba Rao, J.; Ramaswamy, Ramakrishna) Symbol sequence analysis of climatic time signals. (English summary) **2005a:86019**

Bach, Francis R. (*with* Jordan, Michael I.) Beyond independent components: trees and clusters. (English summary)

Baek, Jong Il (*with* Liang, Han Ying; Choi, Yong-Kab; Chung, H. I.) On complete convergence of weighted sums of φ-mixing random variables with application to moving average processes. (English summary) **2005h:60085**

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Bandrivskyy, A. (*with* Luchinsky, D. G.; McClintock, P. V. E.; Smelyanskiy, V. N.; Stefanovska, A.) Inference of systems with delay and applications to cardiovascular dynamics. (English summary)

Banerjee, Anindya[1] (*with* Marcellino, Massimiliano; Osbat, Chiara) Some cautions on the use of panel methods for integrated series of macroeconomic data. (English summary)

Bao, Shuming (*with* Henry, Mark; Barkley, David) Identifying urban-rural linkages: tests for spatial effects in the Carlino-Mills model. (*see* **2005g:62003**)

Baran, Sándor (*with* Pap, Gyula[1]; Van Zuijlen, Martien C. A.) Estimation of the mean of a Wiener sheet. (English summary) **2005k:62075**

— (*with* Pap, Gyula[1]; Van Zuijlen, Martien C. A.) Asymptotic inference for a nearly unstable sequence of stationary spatial AR models. (English summary) **2005h:62152**

— (*with* Pap, Gyula[1]; Van Zuijlen, Martien C. A.) Asymptotic inference for an unstable spatial AR model. (English summary) **2005j:62123**

Barkley, David *see* **Bao, Shuming et al., (2005g:62003)**

Barndorff-Nielsen, Ole E. (*with* Nielsen, Bent; Shephard, Neil; Ysusi, Carla) Measuring and forecasting financial variability using realised variance. (English summary) (*see* **2005c:62005**)

Barry, Ronald *see* **Pace, R. Kelley et al., (2005g:62003)**

Basu, A. K. (*with* Sen Roy, Sugata) Asymptotic distribution of the estimators in a vector autoregressive model under general set-up of the roots. (English summary) **2005h:62224**

Bauer, Dietmar Estimating linear dynamical systems using subspace methods. (English summary)

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Benhenni, Karim (*with* Su, Yingcai) Stepwise sampling procedure for estimating random averages. (English and French summaries)

van den Berg, Jan (*with* Kaymak, Uzay; van den Bergh, Willem-Max) Financial markets analysis by using a probabilistic fuzzy modelling approach. (English summary) **2005b:91184**

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Berkes, István (*with* Horváth, Lajos; Kokoszka, P. S.) Testing for parameter constancy in GARCH(p, q) models. (English summary) **2005k:62187**
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Berument, Hakan (*with* Kilinc, Zubeyir; Ozlale, Umit) The effects of different inflation risk premiums on interest rate spreads. (English summary)
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Bosq, Denis Moyennes mobiles hilbertiennes standard. (English and French summaries) [Standard moving averages in Hilbert spaces] **2005k:62188**
Bottazzi, Giulio (*with* Dosi, Giovanni; Rebesco, Igor) Institutional architectures and behavioral ecologies in the dynamics of financial markets. (English summary)
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Chen, Rong[1] (*with* Yang, Lijian; Hafner, Christian M.) Nonparametric multistep-ahead prediction in time series analysis. (English summary)
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Georgopoulos, George J. (*with* Hejazi, Walid) Feldstein-Horioka meets a time trend. (English summary)
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Ghosh, Himadri (*with* Prajneshu) Non-linear time series modeling of volatile onion price data using AR(p)-arch(q)-in-mean. (English summary)
Gneiting, Tilmann (*with* Schlather, Martin) Stochastic models that separate fractal dimension and the Hurst effect. (English summary)
Goderniaux, Anne-Cécile *see* **Denuit, Michel**
Godsill, Simon J. *see* **Wolfe, Patrick J. et al.**
Goldin, Dina Q. (*with* Millstein, Todd D.; Kutlu, Ayferi) Bounded similarity querying for time-series data. (English summary) **2005g:68025**
Gontis, V. (*with* Kaulakys, B.) Modeling financial markets by the multiplicative sequence of trades. (English summary)
Gouriéroux, Christian *see* **Darolles, Serge et al., 2005b:62127**
Govindaraju, Kondaswamy *see* **Zhang, Lingyun et al.**
Grammig, Joachim *see* **Fernandes, Marcelo, 2005k:62190**
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Grigoletto, Matteo *see* **Gaetan, Carlo**
Große, Ivo *see* **Podobnik, Boris et al.**
Gu, Fanji (*with* Shen, Enhua; Meng, Xin; Cao, Yang[3]; Cai, Zhijie) Higher order complexity of time series. (English summary)
Guégan, Dominique *see* **Dufrenot, Gilles et al.**
Guerra, Maria Letizia (*with* Sorini, Laerte) Testing robustness in calibration of stochastic volatility models. (English summary)
Gunst, Richard F. *see* **Christensen, William F.**
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Guo, Xin A regime switching model: statistical estimation, empirical evidence, and change point detection. (English summary) (*see* **2005b:91010**)
Haddock, Jorge *see* **Sheth-Voss, Pieter A. et al., 2005k:93135**
Hafner, Christian M. *see* **Feldmann, D. et al., 2005b:62083**; **Franke, Jürgen et al., 2005g:91002** *and* **Chen, Rong[1] et al.**
Hafner, Reinhold ★ Stochastic implied volatility. **2005c:91003**
Haldrup, Niels (*with* Montañes Bernal, Antonio; Sansó Rosselló, Andreu) Measurement errors and outliers in seasonal unit root testing. (English summary) **2005k:62191**
Hall, Alastair R. ★ Generalized method of moments. **2005m:62002**
Hall, Peter G. (*with* Efstathia) Nonparametric methods of inference for finite-state, inhomogeneous Markov processes. (English summary) **2005m:62076**
Han, Dong (*with* Tsung, Fugee) A generalized EWMA control chart and its comparison with the optimal EWMA, CUSUM and GLR schemes. (English summary) **2005b:62205**
Han, Min (*with* Xi, Jianhui; Xu, Shiguo; Yin, Fu-Liang) Prediction of chaotic time series based on the recurrent predictor neural network. (English summary)
Härdle, Wolfgang K. *see* **Feldmann, D. et al., 2005b:62083** *and* **Franke, Jürgen et al., 2005g:91002**
Hasan, Mohammad S. On the validity of the random walk hypothesis applied to the Dhaka Stock Exchange. (English summary) **2005g:91155**
Hautsch, Nikolaus ★ Modelling irregularly spaced financial data. **2005c:91004**
He, Jiping *see* **Zhu, Liqiang et al., 2005k:92019**
He, Zonglu (*with* Maekawa, Koichi; McAleer, Michael) Asymptotic properties of the estimator of the long-run coefficient in a dynamic model with integrated regressors and serially correlated errors. (English summary) **2005b:91185**
Healy, Dennis M., Jr. *see* **Priebe, Carey E. et al.,** (**2005b:94011**)
Heaton, Chris (*with* Solo, Victor) Identification of causal factor models of stationary time series. (English summary) **2005g:62113**
Heiberger, Richard M. (*with* Holland, Burt) ★ Statistical analysis and data display. **2005b:62002**
Hejazi, Walid *see* **Georgopoulos, George J.**
Henry, Mark *see* **Bao, Shuming et al.,** (**2005g:62003**)
Herkenrath, Ulrich A new approach to Markov processes of order 2. (English summary) **2005f:60145**
Hingley, P. J. Analytic estimator densities for common parameters under misspecified models. (English summary) **2005d:62013**
Hinich, Melvin J. (*with* Wolinsky, Murray) Normalizing bispectra. (English summary)
Hirasawa, Kotaro *see* **Hu, Jinglu et al.**
Hively, L. M. *see* **Cao, Yinhe et al., 2005j:37137**
Hoffmann, Marc *see* **Feldmann, D. et al., 2005b:62083**
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Hoppensteadt, Frank C. *see* **Zhu, Liqiang et al., 2005k:92019**
Horowitz, Joseph *see* **Rosenkrantz, Walter A., 2005j:62194**
Horváth, Lajos (*with* Zitikis, Ricărdas) Asymptotics of the L_p-norms of density estimators in the first-order autoregressive models. (English summary) **2005e:62058**
— *see also* **Berkes, István et al., 2005k:62187**
Hossain, Md. Zakir *see* **Al-Shanfari, Hatem et al.**
Hsu, Chih-Chiang Long memory or structural changes: an empirical examination on inflation rates. (English summary)
Hu, Jinglu (*with* Hirasawa, Kotaro; Kumamaru, Kousuke) A homotopy approach to improving PEM identification of ARMAX models. (English summary)
Hu, Yu-Pin (*with* Chou, Rouh-Jane) On the Penã-Box model. (English summary) **2005f:62099**
— *see also* **Errata: "On the Peña-Box model"**
Huang, Hsiao-Yun (*with* Ombao, Hernando; Stoffer, David S.) Discrimination and classification of nonstationary time series using the SLEX model. (English summary) **2005d:62105**
Huang, Jianhua Z. (*with* Shen, Haipeng) Functional coefficient regression models for non-linear time series: a polynomial spline approach. (English summary) **2005f:62131**
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Iezzi, Stefano *see* **Costa, Michele**
Iglói, Endre Renormalization group of and convergence to the LISDLG process. (English summary) **2005h:60099**
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Ippoliti, Luigi *see* **Di Battista, Tonio et al.**; **Fontanella, Lara** *and* **Di Giacinto, Valter et al.,** (**2005f:62007**)
Istas, Jacques *see* **Benassi, Albert et al., 2005c:60066**
Istomin, I. A. (*with* Kotlyarov, Oleg Leonidovich; Loskutov, A. Yu.) On the problem of processing time series: extending the possibilities of the local approximation method using singular spectral analysis. (Russian. Russian summary)
Ito, K. *see* **Gao, Dayong et al.,** (**2005c:00015**)
Ivanov, Plamen Ch. *see* **Podobnik, Boris et al.**
Jacquier, Eric (*with* Polson, Nicholas G.; Rossi, Peter E.) Bayesian analysis of stochastic volatility models with fat-tails and correlated errors. (English summary)
Janečková, Hana (*with* Prášková, Zuzana) CWLS and ML estimates in a heteroscedastic RCA(1) model. (English summary) **2005j:62171**
Jawed Iqbal, M. (*with* Quamar, Jawaid) Nature of the processes responsible for rainfall variability. (English summary)
Jayakumar, K. (*with* Ajitha, B. K.) On the geometric Mittag-Leffler distributions. (English summary) **2005h:62045**
Jensen, Henrik *see* **Nielsen, Jens Perch et al.**
Jensen, Mark J. Semiparametric Bayesian inference of long-memory stochastic volatility models. (English summary)
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Jiang, Jack J. *see* **Tao, Chao et al.**
Jin, Xiaoping (*with* Carlin, Bradley P.) Multivariate parametric spatiotemporal models for county level breast cancer survival data. (English summary)
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de Jong, Robert M. Logarithmic spurious regressions. (English summary) **2005b:91186**
Jordan, Michael I. *see* **Bach, Francis R.**
Jose, K. K. *see* **Thomas, Alice, 2005e:62020**
Judd, Kevin (*with* Smith, Leonard A.) Indistinguishable states. II. The imperfect model scenario. (English summary) **2005f:37196**

Kalman, Rudolf E. *see* **Pincus, Steve**, 2005g:91158
Kantz, Holger *see* **Santhanam, M. S.**
Kapetanios, George Unit-root testing against the alternative hypothesis of up to m structural breaks. (English summary)
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Kaymak, Uzay *see* **van den Berg, Jan et al.**, 2005b:91184
Kayran, Ahmet Hamdi *see* **Kızılkaya, Aydın**, 2005h:93160
Kębłowski, Piotr (*with* Welfe, Aleksander) The ADF-KPSS test of the joint confirmation hypothesis of unit autoregressive root. (English summary)
Keenan, Daniel M. (*with* Shorter, Paula A.) Simulation by diffusion on a manifold with boundary: applications to ultrasonic prenatal medical imaging. (English summary) **2005b:92021**
Kellard, Neil *see* **Coakley, Jerry et al.**
Keller, Karsten (*with* Wittfeld, Katharina) Distances of time series components by means of symbolic dynamics. (English summary) **2005b:37197**
Khalaf, Lynda *see* **Dufour, Jean-Marie et al.**
Kharin, Yurīĭ (*with* Zenevich, D. V.) Robustness of statistical forecasting by autoregression model under distortions. (English summary) **2005d:62045**
— Robustness analysis in forecasting of time series. (English summary) **2005b:62195**
Khindanova, Irina (*with* Atakhanova, Zauresh; Rachev, Svetlozar T.) GARCH-type processes in modeling energy prices. (English summary) (*see* **2005b:91009**)
Kilinc, Zubeyir *see* **Berument, Hakan et al.**
Kim, Jaebeom Convergence rates to purchasing power parity for traded and nontraded goods: a structural error-correction model approach. (English summary)
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Kinouchi, Y. *see* **Gao, Dayong et al.**, (2005c:00015)
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Kızılkaya, Aydın (*with* Kayran, Ahmet Hamdi) Estimation of 2-D ARMA model parameters by using equivalent AR approach. (English summary) **2005h:93160**
Klaassen, Franc Long swings in exchange rates: are they really in the data? (English summary)
Kläver, Hendrik (*with* Schmid, Friedrich) The effect of conditional heteroskedasticity on common statistical procedures for means and variances. (English summary)
Klawonn, Frank *see* **Möller-Levet, C. S. et al.**
Kleibergen, Frank Invariant Bayesian inference in regression models that is robust against the Jeffreys-Lindley's paradox. (English summary) **2005f:62012**
Klein, André (*with* Mélard, Guy; Spreij, Peter) On the resultant property of the Fisher information matrix of a vector ARMA process. (English summary) **2005m:62011**
Klein, L. R. Econometric modeling at mixed frequencies. (English and Russian summaries) **2005j:91063**
Knopova, V. P. *see* **Anh, V. V. et al.**, 2005e:60079
Knoth, Sven Fast initial response features for EWMA control charts. (English summary)
Koivu, Matti (*with* Pennanen, Teemu; Ranne, Antero) Modeling assets and liabilities of a Finnish pension insurance company: a VEqC approach. (English summary)
Kokoszka, P. S. (*with* Parfionovas, Andrejus) Bootstrap unit root tests for heavy-tailed time series. (English summary) (*see* **2005b:91009**)
— *see also* **Bhansali, R. J. et al.**, 2005j:37044 *and* **Berkes, István et al.**, 2005k:62187
Kokot, Stefan ★ The econometrics of sequential trade models. **2005a:62010**
Kolkiewicz, Adam W. (*with* Tan, Ken Seng) Volatility risk for regime-switching models. (English summary)
Konev, Viktor (*with* Shapovalov, D. V.) On the guaranteed estimation of the spectral density of an autoregression-moving average process. (Russian. Russian summary) **2005g:62144**
— *see also* **Gal'chuk, L. I.**, 2005h:62210
Koop, Gary (*with* Potter, Simon) Forecasting in dynamic factor models using Bayesian model averaging. (English summary)
Koopman, Siem Jan *see* **Zivot, Eric et al.**, (2005c:62005)
Kotlyarov, Oleg Leonidovich *see* **Istomin, I. A. et al.**
Kotti, Vassiliki (*with* Rigas, A. G.) Improving the performance of a stochastic model by incorporating a non-linear term: application to a spiking biological system. (English summary)
Kozachenko, Yu. V. (*with* Fedoryanich, T. V.) A criterion for testing hypotheses on the covariance function of Gaussian stationary process. (Ukrainian. Ukrainian summary) **2005i:60075**
Kuhn, Daniel ★ Generalized bounds for convex multistage stochastic programs. **2005h:90080**
Kühne, Robert (*with* Rüschendorf, Ludger) Optimal stopping and cluster point processes. (English summary) **2005i:60080**
Kulperger, Reg Stochastic finance: discrete time processes and risk neutral pricing. (English summary) (*see* **2005g:60006**)
Kumamaru, Kousuke *see* **Hu, Jinglu et al.**
Kundu, Debasis (*with* Nandi, Swagata[2]) Determination of discrete spectrum in a random field. (English summary) **2005c:62147**
(Künsch, Hans R.) *see* **Dahlhaus, Rainer**, (2005b:62009)
Kurths, Jürgen *see* **Voss, Henning U. et al.**, 2005c:93103
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Lahiri, Soumendra N. *see* **Chan, Victor et al.**, 2005a:62207
Lai, C. D. *see* **Zhang, Lingyun et al.**
Lai, Dejian *see* **Zhang, Jinxin et al.**, (2005c:62003)
Lai, Kin Keung *see* **Yu, Lean et al.**
Lai, Yi-Hsuan (*with* Chen, Lin-An; Chan, Wen-Yaw) Generalized and feasible generalized median estimators for the linear regression with AR(1) error model. (English summary) **2005c:62061**
— (*with* Thompson, Peter; Chen, Lin-An) Generalized and pseudo-generalized trimmed means for the linear regression with AR(1) error model. (English summary) **2005d:62112**
Lai, Ying-Cheng *see* **Zhu, Liqiang et al.**, 2005k:92019
Laïb, Naâmane Non-parametric testing of conditional variance functions in time series. (English summary) **2005b:62101**
Lardjane, Salim Consistent Lyapunov exponent estimation for one-dimensional dynamical systems. (English summary) **2005a:37007**
Larsson, Erik K. (*with* Söderström, Torsten) Identification of continuous-time AR processes from unevenly sampled data. (English summary)
Laurini, Fabrizio (*with* Tawn, Jonathan A.) New estimators for the extremal index and other cluster characteristics. (English summary)
Lee, Hsiang-Yu *see* **Chen, Cathy W. S. et al.**
Lee, Jack C. *see* **Chen, Cathy W. S. et al.**
Lee, Kang Sup (*with* Kim, Young Ja) Comparative analysis on time series models for the number of reported death claims in Korean compulsory automobile insurance. (English summary)
Lee, Myung Sook Strong consistency for AR model with missing data. (English summary) **2005k:62076**
Lee, Sangyeol (*with* Tokutsu, Yasuyoshi; Maekawa, Koichi) The cusum test for parameter change in regression models with ARCH errors. (English summary) **2005h:62177**
— (*with* Lee, Taewook) CUSUM test for parameter change based on the maximum likelihood estimator. (English summary) **2005f:62033**
Lee, Taewook *see* **Lee, Sangyeol**, 2005f:62033
Leonenko, N. N. *see* **Anh, V. V. et al.**, 2005e:60079 *and* 2005f:60117
Lepskiĭ, O. V. *see* **Feldmann, D. et al.**, 2005b:62083
Li, Aihua[1] Polynomial models of discrete time series over finite fields. (English summary) 2005j:37139
— (*with* Peng, Chuang) Linear transformations on polynomial models of time series. (English summary)
Li, Chu Lin *see* **Liu, Xiao Mao**
Li, Dingding A simple bootstrap test for time series regression models. (English summary) **2005j:62040**
Li, Yun Xia[2] *see* **Zhang, Li Xin[1]**, 2005k:62195
Liang, Han Ying *see* **Baek, Jong Il et al.**, 2005h:60085
Lieberman, Offer (*with* Rousseau, Judith; Zucker, David M.) Valid asymptotic expansions for the maximum likelihood estimator of the parameter of a stationary, Gaussian, strongly dependent process. (English summary) **2005a:62044**
Lillo, Fabrizio (*with* Mantegna, Rosario N.) Modeling the dynamics of a financial index after a crash. (*see* **2005m:91006**)
Lin, Jin Guan (*with* Wei, Bo Cheng) Testing for heteroscedasticity in nonlinear models with ARIMA (0, 1, 0) errors. (Chinese. English and Chinese summaries) **2005m:62132**
Lin, Zheng Yan (*with* Qiu, Jin[3]) A central limit theorem for strong near-epoch dependent random variables. (English summary) **2005h:60067**
Linton, Oliver B. Nonparametric inference for unbalanced time series data. (English summary)
— *see also* **Shintani, Mototsugu**, 2005a:62211
Lippi, Marco Issues concerning the approximation underlying the spectral representation theorem. (English summary) **2005g:60062**
Liu, Regina Y. (*with* Singh, Kesar; Teng, Julie H.) DDMA-charts: nonparametric multivariate moving average control charts based on data depth. (English summary)
Liu, Xiao Mao (*with* Li, Chu Lin) A model of nonsynchronous trading and its return analysis. (Chinese. English and Chinese summaries)
Liu, Ying An (*with* Wei, Bo Cheng) Confidence regions in terms of statistical curvature for AR(q) nonlinear regression models. (English summary) **2005h:62097**
Loskutov, A. Yu. *see* **Istomin, I. A. et al.**
Luati, Alessandra *see* **Dagum, Estela Bee**, 2005h:15007
Luchinsky, D. G. *see* **Bandrivskyy, A. et al.**
Ma, Sheng (*with* Ji, Chuanyi) Modeling network traffic in wavelet domain. (English summary) **2005i:60191**
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Mantegna, Rosario N. *see* **Lillo, Fabrizio**, (2005m:91006)
Mantovan, Pietro (*with* Pastore, Andrea) Flexible dynamic regression models for real-time forecasting of air pollutant concentration. (English summary) (*see* **2005f:62007**)
Marcano, J. G. (*with* Morán, M. D.) The Arov-Grossman model and Burg's entropy. (English summary) **2005h:42017**
Marcellino, Massimiliano *see* **Banerjee, Anindya[1] et al.**
March, T. K. (*with* Chapman, S. C.; Dendy, R. O.) Recurrence plot statistics and the effect of embedding. (English summary)
Marchette, David J. *see* **Priebe, Carey E. et al.**, (2005b:94011)
Marcus, Michael B. (*with* Rosiński, Jan) Sufficient conditions for boundedness of moving average processes. (English summary) **2005h:60115**
Mardesic, Tomislav J. *see* **Vallejos, Ronny O.**
Marengo, Luigi *see* **Fagiolo, Giorgio et al.**, 2005b:91034
Marinucci, Domenico The empirical process for bivariate sequences with long memory. (English summary) **2005k:60109**
Marion, Jean-Marie (*with* Pumo, Besnik) Comparaison des modèles ARH(1) et ARHD(1) sur des données physiologiques. (English and French summaries) [Comparison of the ARH(1) and ARHD(1) models on physiological data]
Markiewicz, Augustyn *see* **Filipiak, K.**
Marquetti, Adalmir Do rising real wages increase the rate of labor-saving technical change? Some econometric evidence. (English summary)
Marron, J. S. *see* **Park, Cheolwoo et al.**
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Mas, André Consistance du prédicteur dans le modèle ARH(1): le cas compact. (French summary) [Consistency of the predictor in the ARH(1) model: the compact case] **2005k:62224**
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McKenzie, Michael D. *see* **Mitchell, Heather, 2005d:91087**
McVinish, R. *see* **Anh, V. V., 2005f:26013**
Meddahi, Nour (*with* Renault, Eric) Temporal aggregation of volatility models. (English summary) **2005a:62228**
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Mélard, Guy *see* **Klein, André et al., 2005m:62011**
Meng, Xin *see* **Gu, Fanji et al.**
Menn, Christian (*with* Rachev, Svetlozar T.) A GARCH option pricing model with α-stable innovations. (English summary)
Mercik, Szymon (*with* Weron, Karina; Burnecki, Krzysztof; Weron, Aleksander) Enigma of self-similarity of fractional Lévy stable motions. (English summary) **2005b:82068**
Merkwirth, Christian *see* **Wichard, Jörg D. et al.**
Millstein, Todd D. *see* **Goldin, Dina Q. et al., 2005g:68025**
Minerva, Tommaso *see* **Pattarin, Francesco et al.**
Mitchell, Heather (*with* McKenzie, Michael D.) GARCH model selection criteria. (English summary) **2005d:91087**
Mizuno, Takayuki (*with* Nakano, Tohur; Takayasu, Misako; Takayasu, Hideki) Traders' strategy with price feedbacks in financial market. (English summary)
Moldavs'ka, E. N. *see* **Anh, V. V. et al., 2005f:60117**
Molenaar, Peter C. M. (*with* Newell, Karl M.) Direct fit of a theoretical model of phase transition in oscillatory finger motions. (English summary)
Möller-Levet, C. S. (*with* Klawonn, Frank; Cho, Kwang-Hyun; Yin, Hujun; Wolkenhauer, O.) Clustering of unevenly sampled gene expression time-series data. (English summary)
Montañes Bernal, Antonio *see* **Haldrup, Niels et al., 2005k:62191**
Moon, Hyungsik Roger (*with* Perron, Benoit) Efficient estimation of the seemingly unrelated regression cointegration model and testing for purchasing power parity. (English summary)
Morán, M. D. *see* **Marcano, J. G., 2005h:42017**
Mouchart, Michel (*with* Scheihing, Eliana) Bayesian evaluation of non-admissible conditioning. (English summary)
Moulines, Éric *see* **Faÿ, Gilles et al., 2005f:62063**
Mourid, Tahar Processus autorégressifs hilbertiens à coefficients aléatoires. (English and French summaries) [Hilbertian autoregressive processes with stochastic coefficients]
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Nandi, Swagata[2] *see* **Kundu, Debasis, 2005c:62147**
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Nielsen, Bent *see* **Barndorff-Nielsen, Ole E. et al., (2005c:62005)**
Nielsen, Jens Perch (*with* Jensen, Henrik; Andersen, Per K.) Creating a reference to a complex emergency situation using time series methods: war in Guinea-Bissau 1998–1999. (English summary)
Nielsen, Morten Ørregaard Local empirical spectral measure of multivariate processes with long range dependence. (English summary) **2005a:62205**
— Noncontemporaneous cointegration and the importance of timing. (English summary)
Niglio, Marcella *see* **Amendola, Alessandra**
Nilsson, Elna *see* **Wiktorsson, Magnus et al.**
Ninomiya, Yoshiyuki Information criterion for Gaussian change-point model. (English summary) **2005k:62009**
Nishina, Ken (*with* Matsubara, Shin'ichiro) A Markov approach to the average run length of Cusum charts for an AR(1) process. (English summary) (*see* **2005a:62017**)
Niu, W. F. *see* **Chen, Cathy W. S. et al.**
Nordström, Fredrik ★ Interference rejection and channel detection in mobile communication. **2005b:94025**
Nott, David J. *see* **Cripps, Edward et al.**
Ogorzałek, Maciej *see* **Wichard, Jörg D. et al.**
Oh, Man-Suk *see* **Shin, Dong Wan, 2005c:62068**
Olhede, Sofia C. (*with* Walden, Andrew T.) 'Analytic' wavelet thresholding. (English summary) **2005j:62172**
Ombao, Hernando *see* **Huang, Hsiao-Yun et al., 2005d:62105**
(Ono, Masanori) *see* **Errata: "A computational approach to liquidity-constrained firms over an infinite horizon", 2005a:91104**
Orłowski, Arkadiusz *see* **Brzozowska-Rup, Katarzyna, 2005j:91062**
Ortobelli Lozza, Sergio (*with* Rachev, Svetlozar T.; Huber, Isabella; Biglova, Almira) Optimal portfolio selection and risk management: a comparison between the stable Paretian approach and the Gaussian one. (English summary) (*see* **2005b:91009**)
Osbat, Chiara *see* **Banerjee, Anindya[1] et al.**
Ozlale, Umit *see* **Berument, Hakan et al.**
Pace, R. Kelley (*with* Barry, Ronald; Slawson, V. Carlos, Jr.; Sirmans, C. F.) Simultaneous spatial and functional form transformations. (*see* **2005g:62003**)
Panaretos, John *see* **Xekalaki, Evdokia, 2005k:62050**
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Papanastassiou, Demetrios (*with* Ioannides, Dimitrios A.) The estimation of a state space model by estimating functions with an application. (English summary)
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"On the Peña-Box model" Erratum: "On the Peña-Box model" [J. Time Ser. Anal. **25** (2004), no. 6, 811–830; MR2099641 (2005f:62099)] by Y.-P. Hu and R.-J. Chou.
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Pattern recognition and string matching ★ Pattern recognition and string matching. **2005b:68003**
Time series analysis and applications to geophysical systems ★ Time series analysis and applications to geophysical systems. **2005g:62005**
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Whitcher, Brandon (*with* Craigmile, Peter F.) Multivariate spectral analysis using Hilbert wavelet pairs. (English summary)
Wolinsky, Murray *see* **Hinich, Melvin J.**
Woyczyński, Wojbor A. *see* **Terdik, György**, **2005m:62178**

Items with secondary classifications in 62M15

Anh, V. V. (*with* Leonenko, N. N.; Sakhno, L. M.) Quasi-likelihood-based higher-order spectral estimation of random fields with possible long-range dependence. (English summary) **2005j:62169**
Barbé, A. (*with* von Haeseler, F.) Correlation and spectral properties of higher-dimensional paperfolding and Rudin-Shapiro sequences. (English summary) **2005m:11037**
Camba-Mendez, Gonzalo (*with* Kapetanios, George) Estimating the rank of the spectral density matrix. (English summary)
Cañamón, I. (*with* Elorza, F. J.; Mangin, A.; Martín, P. L.; Rodriguez Pons-Esparver, Ramon) Wavelets and statistical techniques for data analysis in a mock-up high-level waste storage experiment. (English summary)
Choudhuri, Nidhan (*with* Ghosal, Subhashis; Roy, Anindya) Bayesian estimation of the spectral density of a time series. (English summary) **2005j:62175**
Davies, P. Laurie (*with* Kovac, Arne) Densities, spectral densities and modality. (English summary) **2005a:62101**
Dzhaparidze, Kacha (*with* van Zanten, J. H.) Krein's spectral theory and the Paley-Wiener expansion for fractional Brownian motion. (English summary) **2005m:60070**
Elorza, F. J. *see* **Cañamón, I. et al.**
Forni, Mario (*with* Hallin, Marc; Lippi, Marco; Reichlin, Lucrezia) The generalized dynamic factor model consistency and rates. (English summary) **2005f:62137**
Francis, Bruce A. *see* **Jahromi, Omid S. et al.**, **2005e:94028**
Ghosal, Subhashis *see* **Choudhuri, Nidhan et al.**, **2005j:62175**
Gobet, Emmanuel (*with* Hoffmann, Marc; Reiß, Markus) Nonparametric estimation of scalar diffusions based on low frequency data. (English summary) **2005h:62220**
von Haeseler, F. *see* **Barbé, A.**, **2005m:11037**
Hallin, Marc *see* **Forni, Mario et al.**, **2005f:62137**
Hirukawa, Junichi Discriminant analysis for multivariate non-Gaussian locally stationary processes. (English summary) **2005c:62156**
Hoffmann, Marc *see* **Gobet, Emmanuel et al.**, **2005h:62220**
Jahromi, Omid S. (*with* Francis, Bruce A.; Kwong, Raymond H.) Spectrum estimation using multirate observations. (English summary) **2005e:94028**
Kapetanios, George *see* **Camba-Mendez, Gonzalo**
Konev, Viktor (*with* Shapovalov, D. V.) On the guaranteed estimation of the spectral density of an autoregression-moving average process. (Russian. Russian summary) **2005g:62144**
Kovac, Arne *see* **Davies, P. Laurie**, **2005a:62101**
Kwong, Raymond H. *see* **Jahromi, Omid S. et al.**, **2005e:94028**
Lacaze, Bernard Matched shapes for uniform sampling. (English summary) **2005h:62266**
Leonenko, N. N. *see* **Anh, V. V. et al.**, **2005j:62169**
Lippi, Marco Issues concerning the approximation underlying the spectral representation theorem. (English summary) **2005g:60062**
— *see also* **Forni, Mario et al.**, **2005f:62137**
Ma, Chunsheng Power-law correlations and other models with long-range dependence on a lattice. (English summary) **2005f:60119**
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Martín, P. L. *see* **Cañamón, I. et al.**
McCoy, Emma J. *see* **Olhede, Sofia C. et al.**, **2005k:62213**
Olhede, Sofia C. (*with* McCoy, Emma J.; Stephens, David A.) Large-sample properties of the periodogram estimator of seasonally persistent processes. (English summary) **2005k:62213**
Paparoditis, Efstathios Frequency domain bootstrap for time series. (English summary) **2005b:62095**
Reichlin, Lucrezia *see* **Forni, Mario et al.**, **2005f:62137**
Reiß, Markus *see* **Gobet, Emmanuel et al.**, **2005h:62220**
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Roy, Anindya *see* **Choudhuri, Nidhan et al.**, **2005j:62175**
Sakhno, L. M. *see* **Anh, V. V. et al.**, **2005j:62169**
Sakiyama, Kenji (*with* Taniguchi, Masanobu) Discriminant analysis for locally stationary processes. (English summary) **2005g:62162**
Schreiber, Bertram M. Asymptotically stationary processes on amenable groups. (English summary) **2005m:60110**
Shapovalov, D. V. *see* **Konev, Viktor**, **2005g:62144**
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Afshartous, David (*with* de Leeuw, Jan) A predictive density approach to predicting a future observable in multilevel models. (English summary)
Amendola, Alessandra (*with* Niglio, Marcella) Predictor distribution and forecast accuracy of threshold models. (English summary)

Azimi-Sadjadi, Babak (*with* Krishnaprasad, P. S.) A particle filtering approach to change detection for nonlinear systems. (English summary)
Baggs, Geraldine E. *see* **Nagaraja, H. N., 2005h:62267**
Baltagi, Badi H. (*with* Li, Dong[3]) Prediction in the panel data model with spatial correlation. (*see* **2005g:62003**)
Bermak, Amine *see* **Brahim-Belhouari, Sofiane**
Berzuini, Carlo (*with* Gilks, Walter R.) Particle filtering methods for dynamic and static Bayesian problems. (*see* **2005b:62009**)
Biau, Gérard (*with* Cadre, Benoît) Nonparametric spatial prediction. (English summary) **2005j:62191**
Brahim-Belhouari, Sofiane (*with* Bermak, Amine) Gaussian process for nonstationary time series prediction. (English summary)
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Brockwell, Peter J. (*with* Dahlhaus, Rainer) Generalized Levinson-Durbin and Burg algorithms. (English summary) **2005a:62206**
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Cadre, Benoît *see* **Biau, Gérard, 2005j:62191**
Caires, S. (*with* Ferreira, José António Sousa Jorge) On the non-parametric prediction of conditionally stationary sequences. (English summary) **2005i:62135**
Celant, G. (*with* Di Masi, G. B.) Hermite polynomials expansions for discrete-time nonlinear filtering. (English and Italian summaries) **2005c:62171**
Chan, Victor (*with* Lahiri, Soumendra N.; Meeker, William Q.) Block bootstrap estimation of the distribution of cumulative outdoor degradation. (English summary) **2005a:62207**
Chen, Hua You (*with* Liu, Chunlin[2]) Properties of weighted geometric means combination forecasting model based on L_1 norm. (Chinese. English and Chinese summaries) **2005h:62264**
Chen, Rong[1] (*with* Yang, Lijian; Hafner, Christian M.) Nonparametric multistep-ahead prediction in time series analysis. (English summary)
Chigansky, Pavel (*with* Liptser, Robert) Stability of nonlinear filters in nonmixing case. (English summary) **2005h:62265**
Choi, ByoungSeon *see* **Yi, Seongbaek**
Clark, Todd E. (*with* McCracken, Michael W.) The power of tests of predictive ability in the presence of structural breaks. (English summary)
Clarke, Bertrand *see* **Wong, Hubert**
(Clifford, Peter) *see* **Berzuini, Carlo, (2005b:62009)**
Coolen, F. P. A. (*with* Coolen-Schrijner, P.) Non-parametric predictive reliability demonstration for failure-free periods. (English summary)
Coolen-Schrijner, P. *see* **Coolen, F. P. A.**
Cox, Dennis D. Best unbiased prediction for Gaussian and log-Gaussian processes. (English summary) **2005k:62222**
Dahlhaus, Rainer *see* **Brockwell, Peter J., 2005a:62206**
Das, Kalyan (*with* Jiang, Jiming; Rao, J. N. K.) Mean squared error of empirical predictor. (English summary) **2005a:62208**
Di Marzio, Marco On panel data filtering in technical efficiency estimation. (English summary)
Di Masi, G. B. *see* **Celant, G., 2005c:62171**
Ding, Chun Lei *see* **Liu, Jia Kun et al., 2005i:62136**
Dobrovidov, A. V. On the rate of convergence of nonparametric filtering estimates in dynamical systems of autoregression type. (Russian. Russian summary) **2005g:62165**
Efron, Bradley The estimation of prediction error: covariance penalties and cross-validation. (English summary)
Eilers, Paul H. C. *see* **Marx, Brian D.**
Fearnhead, Paul (*with* Meligkotsidou, Loukia) Exact filtering for partially observed continuous time models. (English summary) **2005d:62152**
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Fitzmaurice, Garrett M. *see* **Huang, Wenzheng**
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Fokianos, Konstantinos *see* **Kedem, Benjamin, (2005c:68009)**
Fontanella, Lara (*with* Ippoliti, Luigi) Dynamic models for space-time prediction via Karhunen-Loève expansion. (English summary)
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Gilks, Walter R. *see* **Berzuini, Carlo, (2005b:62009)**
Goldenshluger, Alexander (*with* Tsybakov, A. B.) Optimal prediction for linear regression with infinitely many parameters. (English summary) **2005d:62153**
Hafner, Christian M. *see* **Chen, Rong[1] et al.**
Hamada, Michael S. (*with* Johnson, Valen; Moore, Leslie M.; Wendelberger, Joanne) Bayesian prediction intervals and their relationship to tolerance intervals. (English summary)
Han, Min (*with* Xi, Jianhui; Xu, Shiguo; Yin, Fu-Liang) Prediction of chaotic time series based on the recurrent predictor neural network. (English summary)
Hastie, Trevor *see* **Zou, Hui[1]**
Hechenbichler, Klaus *see* **Tutz, Gerhard**
Hermoso Carazo, Aurora *see* **Nakamori, Seiichi et al., 2005c:62173; 2005j:62192** *and* **2005m:62179**
Huang, Wenzheng (*with* Fitzmaurice, Garrett M.) Analysis of longitudinal data unbalanced over time. (English summary)
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Johnson, Valen *see* **Hamada, Michael S. et al.**
Kedem, Benjamin (*with* Fokianos, Konstantinos) Semiparametric filtering in speech processing. (English summary) (*see* **2005c:68009**)
Kharin, Yuriĭ Robustness analysis in forecasting of time series. (English summary) **2005b:62195**
Komaki, Fumiyasu Simultaneous prediction of independent Poisson observables. (English summary) **2005k:62223**
Krishnaprasad, P. S. *see* **Azimi-Sadjadi, Babak**
Lacaze, Bernard Matched shapes for uniform sampling. (English summary) **2005h:62266**
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de Leeuw, Jan *see* **Afshartous, David**
Li, Dong[3] *see* **Baltagi, Badi H., (2005g:62003)**
Li, Yan Ling[3] (*with* Zhao, Xuanmin; Xie, Wenxian) Bayesian prediction for the two-parameter exponential distribution based on type II doubly censoring. (English summary)
Linares Pérez, Josefa *see* **Nakamori, Seiichi et al., 2005c:62173; 2005j:62192** *and* **2005m:62179**
Liptser, Robert *see* **Chigansky, Pavel, 2005h:62265**
Liu, Chunlin[2] *see* **Chen, Hua You, 2005h:62264**
Liu, Jia Kun (*with* Ding, Chun Lei; Wang, Gong Shu) Statistical test for efficiency of prediction methods. (Chinese. English and Chinese summaries) **2005i:62136**
Mandel′, A. S. Analog method in the prediction of short time series: an expert-statistical approach. (Russian. Russian summary) **2005f:62146**
Mao, Chang Xuan Predicting the conditional probability of discovering a new class. (English summary) **2005g:62166**
Marx, Brian D. (*with* Eilers, Paul H. C.) Multidimensional penalized signal regression. (English summary)
Mas, André Consistance du prédicteur dans le modèle ARH(1): le cas compact. (French summary) [Consistency of the predictor in the ARH(1) model: the compact case] **2005k:62224**
Maskell, Simon An introduction to particle filters. (English summary) (*see* **2005c:62005**)
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Meeker, William Q. *see* **Chan, Victor et al., 2005a:62207**
Meligkotsidou, Loukia *see* **Fearnhead, Paul, 2005d:62152**
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Meulders, Michel (*with* Xie, Yiyu) Person-by-item predictors. (*see* **2005f:62006**)
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Müller, Peter[2] *see* **Stroud, Jonathan R. et al., (2005c:62005)**
Nagaraja, H. N. (*with* Baggs, Geraldine E.) On predicting the maximum component of a bivariate exponential variable. (English summary) **2005h:62267**
Nakamori, Seiichi (*with* Hermoso Carazo, Aurora; Linares Pérez, Josefa; Sánchez-Rodríguez, M. I.) Fixed-interval smoothing problem from uncertain observations with correlated signal and noise. (English summary) **2005c:62173**
— (*with* Caballero-Águila, Raquel; Hermoso Carazo, Aurora; Jim'enez-L'opez, Jos'e Domingo; Linares Pérez, Josefa) Quadratic estimation from non-independent uncertain observations with coloured noise. **2005m:62179**
— (*with* Hermoso Carazo, Aurora; Jim'enez-L'opez, Jos'e Domingo; Linares Pérez, Josefa) Chandrasekhar-type recursive Wiener filter using covariance information in linear discrete-time wide-sense stationary stochastic systems. (English summary) **2005j:62192**
Nakamori, Yoshiteru *see* **Yu, Lean et al.**
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Poncela, Pilar *see* **Peña, Daniel, 2005a:62209**
Rao, J. N. K. *see* **Das, Kalyan et al., 2005a:62208**
Raqab, Mohammad Z. Approximate maximum likelihood predictors of future failure times of shifted exponential distributions under multiple type II censoring. (English summary)
Rossi, Vivien (*with* Vila, Jean-Pierre) Approche non paramétrique du filtrage de système non linéaire à temps discret et à paramètres inconnus. (English and French summaries) [Filtering a discrete-time nonlinear system with unknown parameters: a nonparametric approach] **2005k:62225**
Sánchez-Rodríguez, M. I. *see* **Nakamori, Seiichi et al., 2005c:62173**
Smits, Dirk J. M. (*with* Moore, Stephen) Latent item predictors with fixed effects. (*see* **2005f:62006**)
Stamey, James D. (*with* Young, Dean Max; Bratcher, Tom L.) Bayesian predictive probability functions for count data that are subject to misclassification. (English summary)
(Storvik, Geir) *see* **Berzuini, Carlo, (2005b:62009)**
Stroud, Jonathan R. (*with* Polson, Nicholas G.; Müller, Peter[2]) Practical filtering for stochastic volatility models. (English summary) (*see* **2005c:62005**)
Tsybakov, A. B. *see* **Goldenshluger, Alexander, 2005d:62153**
Tutz, Gerhard (*with* Hechenbichler, Klaus) Aggregating classifiers with ordinal response structure. (English summary)
Vazquez, Emmanuel (*with* Walter, Eric; Fleury, Gilles Alain) Intrinsic Kriging and prior information. (English summary)
Vila, Jean-Pierre *see* **Rossi, Vivien, 2005k:62225**
Vovk, Vladimir G. Asymptotic optimality of transductive confidence machine. (English summary) (*see* **2005a:68003**)
V′yugin, Vladimir V. *see* **Nouretdinov, Ilia et al., 2005f:62147**
Walter, Eric *see* **Vazquez, Emmanuel et al.**
Wang, Gong Shu *see* **Liu, Jia Kun et al., 2005i:62136**
Wang, Shou Yang *see* **Yu, Lean et al.**
Weissman, Tsachy (*with* Merhav, Neri) Universal prediction of random binary sequences in a noisy environment. (English summary) **2005d:62154**
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Wong, Hubert (*with* Clarke, Bertrand) Improvement over Bayes prediction in small samples in the presence of model uncertainty. (English and French summaries)
Xi, Jianhui *see* **Han, Min et al.**
Xie, Wenxian *see* **Li, Yan Ling[3] et al.**
Xie, Yiyu *see* **Meulders, Michel, (2005f:62006)**
Xu, Shiguo *see* **Han, Min et al.**
Xu, Ye Ji Linear prediction theory of a homogeneous random field with discrete parameters. IX. (Chinese. English and Chinese summaries) **2005i:62137**

Yang, Lijian *see* **Chen, Rong[1] et al.**
Yi, Seongbaek (*with* Choi, ByoungSeon) Spectral factorization of the autocorrelation sequence of an IIR filter using patterns of three functions. (English summary)
Yin, Fu-Liang *see* **Han, Min et al.**
Young, Dean Max *see* **Stamey, James D. et al.**
Yu, Lean (*with* Wang, Shou Yang; Lai, Kin Keung; Nakamori, Yoshiteru) Time series forecasting with multiple candidate models: selecting or combining? (English summary)
Yu, Sheng Hua The linear minimax predictor in finite populations under quadratic loss function. (English summary) **2005c:62174**
— The linear minimax predictor in finite populations with arbitrary rank under quadratic loss function. (Chinese. English and Chinese summaries) **2005h:62268**
Zhao, Xuanmin *see* **Li, Yan Ling[3] et al.**
Zou, Hui[1] (*with* Hastie, Trevor) Regularization and variable selection via the elastic net. (English summary)

Items with secondary classifications in 62M20

Ahsanullah, Mohammad (*with* Bhatti, Muhammad I.) On prediction of Olympic records using extreme value distribution. (English summary) **2005c:62092**
Alcalá, J. T. *see* **Ojeda, J. L. et al., 2005j:62103**
Alonso, Andrés M. (*with* Peña, Daniel; Romo, Juan) On sieve bootstrap prediction intervals. (English summary) **2005a:62189**
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Anh, V. V. (*with* McVinish, R.) The Riesz-Bessel fractional diffusion equation. (English summary) **2005b:60094**
— (*with* Inoue, Akihiko) Prediction of fractional Brownian motion with Hurst index less than 1/2. (English summary) **2005i:60078**
Armano, G. (*with* Marchesi, Michele; Murru, A.) A hybrid genetic-neural architecture for stock indexes forecasting. (English summary)
Bábela, Ján Middle term predictions of time series in the models with external information about future. (English summary) **2005c:62148**
Back, Kerry Incomplete and asymmetric information in asset pricing theory. **2005k:91141**
Baxendale, Peter H. (*with* Chigansky, Pavel; Liptser, Robert) Asymptotic stability of the Wonham filter: ergodic and nonergodic signals. (English summary) **2005e:93152**
Begleiter, Ron (*with* El-Yaniv, Ran; Yona, Golan) On prediction using variable order Markov models. (English summary) **2005j:68086**
Bhattacharjee, Sushanta Kumar *see* **Sinha, A. K. et al.**
Bhatti, Muhammad I. *see* **Ahsanullah, Mohammad, 2005c:62092**
Bhaumik, Dulal K. *see* **Gibbons, Robert D. et al.**
Bittanti, S. *see* **Garatti, S. et al.**
Bowman, F. DuBois Predicting power for longitudinal studies with attrition. (English summary)
Boyce, Mark S. *see* **Xu, Cailin et al.**
Bulychev, Yu. G. (*with* Lapsar′, A. P.) The problem of the operational prediction of the stochastic characteristics of Markov parametric systems. (Russian. English and Ukrainian summaries) **2005i:65140**
Caballero-Águila, Raquel *see* **Nakamori, Seiichi et al., 2005h:94017**
Cai, David (*with* Haven, Kyle; Majda, Andrew J.) Quantifying predictability in a simple model with complex features. (English summary) **2005f:37187**
— *see also* **Majda, Andrew J. et al., 2005a:94026**
Campi, M. C. *see* **Garatti, S. et al.**
Cardot, Hervé (*with* Sarda, Pascal) Estimation in generalized linear models for functional data via penalized likelihood. (English summary) **2005h:62187**
Carmona, René (*with* Ludkovski, Michael) Spot convenience yield models for the energy markets. (English summary) (*see* **2005b:91010**)
Chadli, A. Prédictions bayesiennes en fiabilité: cas d'une loi exponentielle. (English and French summaries) [Bayesian predictions in reliability: the case of an exponential distribution]
Chan, Wen-Yaw *see* **McGhee, Charles R. et al., (2005i:62004)**
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Chen, Cheng-Hung *see* **Lin, Cheng-Jian**
Chen, Rong[1] *see* **Guo, Dong et al., 2005h:94026**
Cheng, Chi Lun (*with* Tsai, Chih-Ling) The invariance of some score tests in the linear model with classical measurement error. (English summary)
Cheung-Mon-Chan, Pascal (*with* Moulines, Éric) Global sampling for sequential filtering over discrete state space. (English summary) **2005h:94025**
Chigansky, Pavel *see* **Baxendale, Peter H. et al., 2005e:93152**
Chiogna, Monica (*with* Gaetan, Carlo) Hierarchical space-time modelling of epidemic dynamics: an application to measles outbreaks. (English summary)
Chiou, Jeng-Min (*with* Müller, Hans-Georg; Wang, Jane-Ling) Functional response models. (English summary)
Chorin, Alexandre J. (*with* Krause, Paul) Dimensional reduction for a Bayesian filter. (English summary) **2005m:93150**
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Conversano, Claudio Smoothing score algorithm for generalized additive models. (English summary) (*see* **2005f:62007**)
Cook, R. Dennis *see* **Li, Lexin et al.**
Corielli, Francesco (*with* Meucci, Attilio) Pitfalls in linear models for style analysis. (English summary)
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Davis, John M. *see* **Gibbons, Robert D. et al.**
Davison, Matt *see* **Yao, Weiguang et al., 2005f:37178**
Dëmin, N. S. (*with* Safronova, Irina; Rozhkova, Svetlana) About structure of Shannon information amount for joint filtering and extrapolation problem by continuous-discrete memory observations. (English and Lithuanian summaries) **2005g:94033**
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Durairajan, T. M. *see* **William, Martin L., 2005a:62162**
Duval, Laurent (*with* Chaux, Caroline) Lapped transforms and hidden Markov models for seismic data filtering. (English summary) **2005h:42069**
Eaton, Morris L. (*with* Sudderth, William D.) Properties of right Haar predictive inference. (English summary) **2005k:62137**
Elliott, Robert J. (*with* Malcolm, W. P.) Robust M-ary detection filters and smoothers for continuous-time jump Markov systems. (English summary) **2005e:93153**
— *see also* **Wu, P., 2005i:93086**
El-Yaniv, Ran *see* **Begleiter, Ron et al., 2005j:68086**
Erdogmus, Deniz *see* **Rao, Yadunandana N. et al., 2005i:93084**
Essex, Christopher *see* **Yao, Weiguang et al., 2005f:37178**
Fang, Yue (*with* Koreisha, Sergio G.) Forecasting with serially correlated regression models. (English summary) **2005c:62152**
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Ferraty, Frédéric (*with* Vieu, Philippe) Nonparametric models for functional data, with application in regression, time-series prediction and curve discrimination. (English summary) **2005d:62074**
— (*with* Laksaci, Ali; Vieu, Philippe) Functional time series prediction via conditional mode estimation. (English and French summaries) **2005k:62203**
Francois, D. *see* **Lendasse, A. et al., (2005c:00014)**
Frees, Edward W. ★ Longitudinal and panel data.
Fryzlewicz, Piotr (*with* Van Bellegem, Sébastien; von Sachs, Rainer) Forecasting non-stationary time series by wavelet process modelling. (English summary) **2005j:62179**
Gabriel, Vasco J. (*with* Martins, Luis F.) On the forecasting ability of ARFIMA models when infrequent breaks occur. (English summary)
Gadgil, Madhav *see* **Xu, Cailin et al.**
Gaetan, Carlo *see* **Chiogna, Monica**
Garatti, S. (*with* Campi, M. C.; Bittanti, S.) Assessing the quality of identified models through the asymptotic theory—when is the result reliable? (English summary)
Gawarecki, L. (*with* Mandrekar, V.) Non-linear filtering with Gaussian martingale noise: Kalman filter with fBm noise. (English summary) **2005m:60082**
Gibbons, Robert D. (*with* Bhaumik, Dulal K.; Cox, David R.; Grayson, Dennis R.; Davis, John M.; Sharma, Rajiv P.) Sequential prediction bounds for identifying differentially expressed genes in replicated microarray experiments. (English summary)
Ginovyan, M. S. (*with* Mikaelyan, L. V.) Inversion of truncated Wiener-Hopf operators and prediction error for continuous-time ARMA processes. (Russian. English and Russian summaries) **2005m:62160**
Glasser, Jay H. *see* **McGhee, Charles R. et al., (2005i:62004)**
Godsill, Simon J. *see* **Vermaak, Jaco et al.**
Goldstein, Michael[1] (*with* Rougier, Jonathan) Probabilistic formulations for transferring inferences from mathematical models to physical systems. (English summary)
González-Manteiga, Wenceslao *see* **Cotos-Yáñez, T. R. et al.**
Grayson, Dennis R. *see* **Gibbons, Robert D. et al.**
Green, Alan C. (*with* Dougherty, Edward R.; Marshall, Stephen; Greenhalgh, David) Optimal filters with multiresolution apertures. (English summary) **2005a:94015**
Greenhalgh, David *see* **Green, Alan C. et al., 2005a:94015**
Guilbaud, Olivier Exact non-parametric confidence, prediction and tolerance intervals with progressive type-II censoring. (English summary) **2005b:62070**
Guo, Dong (*with* Wang, Xiaodong[2]; Chen, Rong[1]) Multilevel mixture Kalman filter. (English summary) **2005h:94026**
Haven, Kyle *see* **Cai, David et al., 2005f:37187**
Herberts, Tina (*with* Jensen, Uwe[1]) Optimal detection of a change point in a Poisson process for different observation schemes. (English summary) **2005g:60078**
Hermoso Carazo, Aurora *see* **Nakamori, Seiichi et al., 2005h:94017**
Holzfuss, Joachim Prediction of long-term dynamics from transients. (English summary) **2005k:37186**
Hu, Fei Fang (*with* Zidek, James V.) Forecasting NBA basketball playoff outcomes using the weighted likelihood. (English summary) (*see* **2005i:62005**)
(Huang, Fuchun) *see* **Rosset, Saharon, 2005e:62103**
Hutter, Marcus Optimality of universal Bayesian sequence prediction for general loss and alphabet. (English summary) **2005j:62019**
Imon, A. H. M. Rahmatullah *see* **Sinha, A. K. et al.**
Inoue, Akihiko *see* **Anh, V. V., 2005i:60078**
Inoue, Atsushi[4] (*with* Kilian, Lutz) In-sample or out-of-sample tests of predictability: which one should we use? (English summary)
Ismail, Abdulla *see* **Mahmoud, Magdi S. et al., 2005h:93166**
Jakubowski, Adam An almost sure approximation for the predictable process in the Doob-Meyer decomposition theorem. (English summary) **2005m:60087**
Jensen, Uwe[1] *see* **Herberts, Tina, 2005g:60078**
Jim'enez-L'opez, Jos'e Domingo *see* **Nakamori, Seiichi et al.**
Kadirkamanathan, Visakan *see* **Li, Ping[6], 2005f:93158**
Katulev, A. N. (*with* Kuznetsov, V. N.; Malevinskiĭ, M. F.; Solomakha, G. M.) A two-dimensional polynomial filter. (Russian. Russian summary) **2005f:94009**
Keiding, Niels *see* **Rosthøj, Susanne**
Keleş, Sündüz (*with* van der Laan, Mark J.; Dudoit, Sandrine) Asymptotically optimal model selection method with right censored outcomes. (English summary) **2005i:62017**
Kharin, A. Yu. Bayes prediction robustness in terms of L_1-distortions of prior probability distribution. **2005f:62089**
Kharin, Yuriĭ (*with* Maevskiĭ, V. V.) Local-median method of forecasting for regression time series under outliers. (English summary) **2005h:62176**
Khasminskii, R. Z. Nonlinear filtering of smooth signals. (English summary) **2005k:62091**
Kilian, Lutz *see* **Inoue, Atsushi[4]**
Kimura, Masahiro (*with* Saito, Kazumi; Ueda, Naonori) Modeling share dynamics by extracting competition structure. (English summary) **2005m:62164**
Kleeman, Richard *see* **Majda, Andrew J. et al., 2005a:94026**

Kleptsyna, M. L. (*with* Le Breton, A.; Viot, M.) Asymptotically optimal filtering in linear systems with fractional Brownian noises. (English summary) **2005j:60083**
Koreisha, Sergio G. *see* **Fang, Yue**, **2005c:62152**
Kotecha, Jayesh H. (*with* Djurić, Petar M.) Gaussian particle filtering. (English summary) **2005d:94036**
— (*with* Djurić, Petar M.) Gaussian sum particle filtering. (English summary) **2005a:94019**
Kouritzin, Michael A. (*with* Sun, Wei[3]; Xiong, Jie) Nonlinear filtering for reflecting diffusions in random environments via nonparametric estimation. (English summary) **2005j:60186**
Krause, Paul *see* **Chorin, Alexandre J.**, **2005m:93150**
Kuznetsov, V. N. *see* **Katulev, A. N. et al.**, **2005f:94009**
van der Laan, Mark J. *see* **Keleş, Sündüz et al.**, **2005i:62017**
Labbas, Ahmed (*with* Mourid, Tahar) Estimation et prévision d'un processus autorégressif Banach. (French summary) [Estimation and prediction for a Banach autoregressive process] **2005b:62185**
Laksaci, Ali *see* **Ferraty, Frédéric et al.**, **2005k:62203**
Lapsar′, A. P. *see* **Bulychev, Yu. G.**, **2005i:65140**
Le Breton, A. *see* **Kleptsyna, M. L. et al.**, **2005j:60083**
Lendasse, A. (*with* Francois, D.; Wertz, Vincent; Verleysen, M.) Nonlinear time series prediction by weighted vector quantization. (English summary) (*see* **2005c:00014**)
Li, Dong Feng[1] (*with* Xie, Zhong Jie) New developments in Monte Carlo filtering and their applications. (Chinese. English and Chinese summaries) **2005i:93081**
Li, Lexin (*with* Cook, R. Dennis; Nachtsheim, Christopher J.) Model-free variable selection. (English summary)
Li, Ping[6] (*with* Kadirkamanathan, Visakan) Fault detection and isolation in non-linear stochastic systems—a combined adaptive Monte Carlo filtering and likelihood ratio approach. (English summary) **2005f:93158**
Li, Tong[2] Econometrics of first-price auctions with entry and binding reservation prices. (English summary) **2005h:91085**
Lin, Cheng-Jian (*with* Chen, Cheng-Hung) Identification and prediction using recurrent compensatory neuro-fuzzy systems. (English summary)
Linares Pérez, Josefa *see* **Nakamori, Seiichi et al.**, **2005h:94017**
Liptser, Robert *see* **Baxendale, Peter H. et al.**, **2005e:93152**
Ludkovski, Michael *see* **Carmona, René**, (**2005b:91010**)
Luebke, Karsten (*with* Weihs, Claus) Generation of prediction optimal projection on latent factors by a stochastic search algorithm. (English summary)
Ma, Jinghong *see* **Tugnait, Jitendra K.**
Madsen, Henrik *see* **Treebushny, Dimitri**, (**2005c:00014**)
Maevskiĭ, V. V. *see* **Kharin, Yuriĭ**, **2005h:62176**
Mahmoud, Magdi S. (*with* Shi, Peng; Ismail, Abdulla) Robust Kalman filtering for discrete-time Markovian jump systems with parameter uncertainty. (English summary) **2005h:93166**
Majda, Andrew J. (*with* Kleeman, Richard; Cai, David) A mathematical framework for quantifying predictability through relative entropy. (English summary) **2005a:94026**
— *see also* **Cai, David et al.**, **2005f:37187**
Malcolm, W. P. *see* **Elliott, Robert J.**, **2005e:93153**
Malevinskiĭ, M. F. *see* **Katulev, A. N. et al.**, **2005f:94009**
Malinowska, Iwona (*with* Szynal, Dominik) On a family of Bayesian estimators and predictors for a Gumbel model based on the kth lower records. (English summary) **2005h:62092**
Mandrekar, V. *see* **Gawarecki, L.**, **2005m:60082**
Mantovan, Pietro (*with* Pastore, Andrea) Flexible dynamic regression models for real-time forecasting of air pollutant concentration. (English summary) (*see* **2005f:62007**)
Marchesi, Michele *see* **Armano, G. et al.**
Marshall, Stephen *see* **Green, Alan C. et al.**, **2005a:94015**
Martins, Luis F. *see* **Gabriel, Vasco J.**
Masuda, Hiroki (*with* Yoshida, Nakahiro) An application of the double Edgeworth expansion to a filtering model with Gaussian limit. (English summary) **2005h:62151**
McGhee, Charles R. (*with* Glasser, Jay H.; Chan, Wen-Yaw; Pomeroy, Nancy) Forecasting health care expenditures and utilization based on a Markov process and a deterministic cost function in managed care settings. (English summary) (*see* **2005i:62004**)
McVinish, R. *see* **Anh, V. V.**, **2005b:60094**
Meucci, Attilio *see* **Corielli, Francesco**
Mikaelyan, L. V. *see* **Ginovyan, M. S.**, **2005m:62160**
Mitter, Sanjoy K. (*with* Newton, Nigel J.) A variational approach to nonlinear estimation. (English summary) **2005a:62078**
Moscarini, Giuseppe Limited information capacity as a source of inertia. (English summary) **2005b:91187**
Moulines, Éric *see* **Cheung-Mon-Chan, Pascal**, **2005h:94025**
Mourid, Tahar *see* **Labbas, Ahmed**, **2005b:62185**
Müller, Hans-Georg *see* **Chiou, Jeng-Min et al.**
Murru, A. *see* **Armano, G. et al.**
Nachtsheim, Christopher J. *see* **Li, Lexin et al.**
Nakamori, Seiichi Design of recursive Wiener fixed-point smoother based on innovations approach in linear discrete-time stochastic systems. (English summary) **2005a:94021**
— (*with* Caballero-Águila, Raquel; Hermoso Carazo, Aurora; Linares Pérez, Josefa) Recursive estimators of signals from measurements with stochastic delays using covariance information. (English summary) **2005h:94017**
— (*with* Hermoso Carazo, Aurora; Jim'enez-L'opez, Jos'e Domingo; Linares Pérez, Josefa) Filtering of signals transmitted in multichannel from Chandrasekhar and Riccati recursions.
Nanjundiah, Vidyanand *see* **Xu, Cailin et al.**
Newton, Nigel J. *see* **Mitter, Sanjoy K.**, **2005a:62078**
Nouretdinov, Ilia (*with* Vovk, Vladimir G.) Criterion of calibration for transductive confidence machine with limited feedback. (English summary) (*see* **2005a:68004**)
Ojeda, J. L. (*with* Cristóbal Cristóbal, José Antonio; Alcalá, J. T.) Nonparametric confidence bands construction for GLM models with length biased data. (English summary) **2005j:62103**
Oudjane, Nadia (*with* Rubenthaler, Sylvain) Stability and uniform particle approximation of nonlinear filters in case of non ergodic signals. (English summary) **2005m:93153**
Pan, Quan *see* **Zhang, Lei et al.**, **2005f:94031**
Pastore, Andrea *see* **Mantovan, Pietro**, (**2005f:62007**)
Peña, Daniel *see* **Alonso, Andrés M. et al.**, **2005a:62189**
Piterbarg, Leonid I. On predictability of particle clusters in a stochastic flow. (English summary) **2005j:76050**
Pomeroy, Nancy *see* **McGhee, Charles R. et al.**, (**2005i:62004**)
Prada-Sánchez, J. M. *see* **Cotos-Yáñez, T. R. et al.**
Principe, Jose C. *see* **Rao, Yadunandana N. et al.**, **2005i:93084**
Ranocha, Pavel Efficiency of some algorithms for prediction in finite stationary time series. (English summary)
Rao, Yadunandana N. (*with* Erdogmus, Deniz; Principe, Jose C.) Error whitening criterion for adaptive filtering: theory and algorithms. (English summary) **2005i:93084**
Reilly, Cavan (*with* Zeringue, Angelique) Improved predictions of lynx trappings using a biological model. (*see* **2005m:62005**)
Romo, Juan *see* **Alonso, Andrés M. et al.**, **2005a:62189**
Rosset, Saharon (*with* Zhu, Ji) Corrected proof of the result of: "Prediction error property of the lasso estimator and its generalization" [Aust. N. Z. J. Stat. **45** (2003), no. 2, 217–228; MR1983833 (2004d:62324)] by F. Huang. (English summary) **2005e:62103**
Rosthøj, Susanne (*with* Keiding, Niels) Explained variation and predictive accuracy in general parametric statistical models: the role of model misspecification. (English summary)
Rougier, Jonathan *see* **Goldstein, Michael[1]**
Różański, Roman (*with* Zagdański, Adam) On the consistency of sieve bootstrap prediction intervals for stationary time series. (English summary) **2005h:62128**
Rozhkova, Svetlana *see* **Dëmin, N. S. et al.**, **2005g:94033**
Rubenthaler, Sylvain *see* **Oudjane, Nadia**, **2005m:93153**
Rubinstein, Robert (*with* Choudhari, Meelan) Uncertainty quantification for systems with random initial conditions using Wiener-Hermite expansions. (English summary) **2005i:76068**
Ryabko, B. Ya. The nonprobabilistic approach to learning the best prediction. (English summary)
von Sachs, Rainer *see* **Fryzlewicz, Piotr et al.**, **2005j:62179**
Safronova, Irina *see* **Dëmin, N. S. et al.**, **2005g:94033**
Saito, Kazumi *see* **Kimura, Masahiro et al.**, **2005m:62164**
Sarda, Pascal *see* **Cardot, Hervé**, **2005h:62187**
Shalizi, Cosma Rohilla Optimal nonlinear prediction of random fields on networks. (English summary) **2005k:60161**
Sharma, Rajiv P. *see* **Gibbons, Robert D. et al.**
Shen, Qing[2] (*with* Faraway, Julian) An F test for linear models with functional responses. (English summary)
Shevlyakov, A. Yu. (*with* Zolotaya, Aelita V.) On a problem of random fields filtering. (English summary) **2005b:60131**
Shi, Peng *see* **Mahmoud, Magdi S. et al.**, **2005h:93166**
Shurygin, A. M. *see* **Strigunova, M. S.**
Singer, Julio M. *see* **Stanek, Edward J., III**
Sinha, A. K. (*with* Imon, A. H. M. Rahmatullah; Bhattacharjee, Sushanta Kumar) Test of parameter of an exponential distribution in predictive approach. (English summary)
Smith, Robert J. (*with* Wolkowicz, Gail S. K.) Analysis of a model of the nutrient driven self-cycling fermentation process. (English summary) **2005a:92050**
Solomakha, G. M. *see* **Katulev, A. N. et al.**, **2005f:94009**
Stanek, Edward J., III (*with* Singer, Julio M.) Predicting random effects from finite population clustered samples with response error. (English summary)
Starosel′tsev, O. N. Predicting the prices of goods. (Russian. Russian summary) (*see* **2005i:00009**)
Strigunova, M. S. (*with* Shurygin, A. M.) Scalar multiplication of matrices with a sliding window, and earthquake prediction. (Russian. Russian summary)
Sudderth, William D. *see* **Eaton, Morris L.**, **2005k:62137**
Sun, Wei[3] *see* **Kouritzin, Michael A. et al.**, **2005j:60186**
Szynal, Dominik *see* **Malinowska, Iwona**, **2005h:62092**
Treebushny, Dimitri (*with* Madsen, Henrik) A new reduced rank square root Kalman filter for data assimilation in mathematical models. (English summary) (*see* **2005c:00014**)
Triacca, Umberto Feedback, causality and distance between ARMA models. (English summary) **2005a:62204**
Tsai, Chih-Ling *see* **Cheng, Chi Lun**
Tsukerman, E. V. A mathematical model of an economic process and a forecasting method that is optimal for this model. (Russian) (*see* **2005i:00009**)
Tugnait, Jitendra K. (*with* Ma, Jinghong) A hypothesis testing approach to blind DS-CDMA user acquisition, identification, and detection via code-constrained successive cancellation. (English summary)
Ueda, Naonori *see* **Kimura, Masahiro et al.**, **2005m:62164**
Van Bellegem, Sébastien *see* **Fryzlewicz, Piotr et al.**, **2005j:62179**
Verleysen, M. *see* **Lendasse, A. et al.**, (**2005c:00014**)
Vermaak, Jaco (*with* Andrieu, Christophe; Doucet, Arnaud; Godsill, Simon J.) Reversible jump Markov chain Monte Carlo strategies for Bayesian model selection in autoregressive processes. (English summary)
Vieu, Philippe *see* **Ferraty, Frédéric et al.**, **2005d:62074** *and* **2005k:62203**
Viot, M. *see* **Kleptsyna, M. L. et al.**, **2005j:60083**
Vovk, Vladimir G. Well-calibrated predictions from online compression models. (English summary) (*see* **2005a:68004**)
— *see also* **Nouretdinov, Ilia**, (**2005a:68004**)
Wang, Jane-Ling *see* **Chiou, Jeng-Min et al.**
Wang, Xiaodong[2] *see* **Guo, Dong et al.**, **2005h:94026**
Weihs, Claus *see* **Luebke, Karsten**
Wertz, Vincent *see* **Lendasse, A. et al.**, (**2005c:00014**)
Wildi, Marc ★ Signal extraction. **2005k:62005**
William, Martin L. (*with* Durairajan, T. M.) Minimum convex risk equivariant finite population prediction for linear functions in regression models. (English summary) **2005a:62162**
Wolkowicz, Gail S. K. *see* **Smith, Robert J.**, **2005a:92050**

Wu, P. (*with* Elliott, Robert J.) Hidden Markov chain filtering for a jump diffusion model. (English summary) **2005i:93086**
Wu, Xiaolin[1] *see* **Zhang, Lei et al., 2005f:94031**
Xie, Zhong Jie *see* **Li, Dong Feng[1], 2005i:93081**
Xiong, Jie *see* **Kouritzin, Michael A. et al., 2005j:60186**
Xu, Cailin (*with* Boyce, Mark S.; Gadgil, Madhav; Nanjundiah, Vidyanand) Forecasting spatially structured populations: the role of dispersal and scale. (English summary)
Xu, Li Wen (*with* Yu, Sheng Hua) Admissibility of linear prediction under matrix loss. (Chinese. English and Chinese summaries) **2005k:62022**
— *see also* **Yu, Sheng Hua, 2005k:62023**
Xu, Ye Ji Linear prediction theory of a homogeneous random field with continuous parameters. (Chinese. English and Chinese summaries) **2005d:60084**
Yao, Weiguang (*with* Essex, Christopher; Yu, Pei[1]; Davison, Matt) Measure of predictability. (English summary) **2005f:37178**
Yona, Golan *see* **Begleiter, Ron et al., 2005j:68086**
Yoshida, Nakahiro *see* **Masuda, Hiroki, 2005h:62151**
Yu, Pei[1] *see* **Yao, Weiguang et al., 2005f:37178**
Yu, Sheng Hua (*with* Xu, Li Wen) Admissibility of linear prediction under quadratic loss. (Chinese. English and Chinese summaries) **2005k:62023**
— *see also* **Xu, Li Wen, 2005k:62022**
Zacks, Shelemyahu Adaptive methods under prediction models for software reliability. (English summary) **2005f:62160**
Zagdański, Adam *see* **Różański, Roman, 2005h:62128**
Zeng, Yong[1] Estimating stochastic volatility via filtering for the micromovement of asset prices. (English summary) **2005c:91069**
Zeringue, Angelique *see* **Reilly, Cavan, (2005m:62005)**
Zhang, Hong-Cai *see* **Zhang, Lei et al., 2005f:94031**
Zhang, Lei (*with* Wu, Xiaolin[1]; Pan, Quan; Zhang, Hong-Cai) Multiresolution modeling and estimation of multisensor data. (English summary) **2005f:94031**
Zhu, Ji *see* **Rosset, Saharon, 2005e:62103**
Zidek, James V. *see* **Hu, Fei Fang, (2005i:62005)**
Zolotaya, Aelita V. *see* **Shevlyakov, A. Yu., 2005b:60131**
Zvára, Petr On geometric ergodicity and prediction in nonnegative non-linear autoregressive processes. (English summary) **2005h:62263**

Items listed otherwise than by author

Lecture Notes in Economics and Mathematical Systems *see* **Wildi, Marc, 2005k:62005**

62M30 Spatial processes

Deshmukh, S. R. Identifiable sampling design for spatial process. (English summary) **2005f:62148**
Kolaczyk, Eric D. *see* **Louie, Mary M., 2005g:62167**
Louie, Mary M. (*with* Kolaczyk, Eric D.) On the covariance properties of certain multiscale spatial processes. (English summary) **2005g:62167**
Mase, Shigeru *see* **Sakaguchi, Takayuki, 2005a:62210**
Sakaguchi, Takayuki (*with* Mase, Shigeru) On the threshold method for marked spatial point processes. (English summary) **2005a:62210**

Items with secondary classifications in 62M30

Beneš, Viktor (*with* Rataj, Jan) ★ Stochastic geometry: selected topics. **2005g:60002**
Cafeo, John A. *see* **Higdon, Dave et al.**
Cavendish, James C. *see* **Higdon, Dave et al.**
Chen, Xing *see* **Lu, Zudi, 2005f:62070**
Choi, Hyemi *see* **Lee, Young Kyung et al., 2005d:62071**
Doksum, Kjell A. (*with* James, Lancelot F.) On spatial neutral to the right processes and their posterior distributions. (English summary) **2005a:62088**
Engländer, János (*with* Kyprianou, Andreas E.) Local extinction versus local exponential growth for spatial branching processes. (English summary) **2005k:60270**
Genton, Marc G. (*with* Perrin, Olivier) On a time deformation reducing nonstationary stochastic processes to local stationarity. (English summary) **2005h:62243**
Girard, Stéphane (*with* Jacob, Pierre M.) Extreme values and kernel estimates of point processes boundaries. (English summary) **2005h:60151**
Higdon, Dave (*with* Kennedy, Marc; Cavendish, James C.; Cafeo, John A.; Ryne, Robert D.) Combining field data and computer simulations for calibration and prediction. (English summary)
Jacob, Pierre M. *see* **Girard, Stéphane, 2005h:60151**
James, Lancelot F. *see* **Doksum, Kjell A., 2005a:62088**
Kennedy, Marc *see* **Higdon, Dave et al.**
Kyprianou, Andreas E. *see* **Engländer, János, 2005k:60270**
Lee, Young Kyung (*with* Choi, Hyemi; Park, Byeong U.; Yu, K. S.) Local likelihood density estimation on random fields. (English summary) **2005d:62071**
Lu, Zudi (*with* Chen, Xing) Spatial kernel regression estimation: weak consistency. (English summary) **2005f:62070**
Ma, Chunsheng Power-law correlations and other models with long-range dependence on a lattice. (English summary) **2005f:60119**
Møller, Jesper (*with* Torrisi, Giovanni Luca) Generalised shot noise Cox processes. (English summary) **2005k:60040**
Palmowski, Zbigniew A note on importance sampling simulation for a germ-grain model. (English summary) **2005d:60019**
Park, Byeong U. *see* **Lee, Young Kyung et al., 2005d:62071**
Perrin, Olivier *see* **Genton, Marc G., 2005h:62243**
Rataj, Jan *see* **Beneš, Viktor, 2005g:60002**
Ryne, Robert D. *see* **Higdon, Dave et al.**
Torrisi, Giovanni Luca *see* **Møller, Jesper, 2005k:60040**
Yu, K. S. *see* **Lee, Young Kyung et al., 2005d:62071**

62M40 Random fields; image analysis

Böhm, Stephan (*with* Schmidt, Volker[1]) Asymptotic properties of estimators for the volume fractions of jointly stationary random sets. (English summary) **2005j:62193**
Guan, Bao *see* **Sun, Hong et al., 2005k:62226**
Hou, Xingsong *see* **Li, Hongliang[2] et al.**
Li, Hongliang[2] (*with* Liu, Guizhong; Li, Yongli; Hou, Xingsong) MRF based construction of statistical operator and its application. (English summary)
Li, Yongli *see* **Li, Hongliang[2] et al.**
Liu, Guizhong *see* **Li, Hongliang[2] et al.**
Maitre, Henri *see* **Sun, Hong et al., 2005k:62226**
Mardesic, Tomislav J. *see* **Vallejos, Ronny O.**
Prakasa Rao, B. L. S. Estimation for some stochastic partial differential equations based on discrete observations. II. (English summary)
Schmidt, Volker[1] *see* **Böhm, Stephan, 2005j:62193**
Sun, Hong (*with* Guan, Bao; Maitre, Henri) Statistical multiresolution analysis in amplitude-frequency domain. (English summary) **2005k:62226**
Vallejos, Ronny O. (*with* Mardesic, Tomislav J.) A recursive algorithm to restore images based on robust estimation of NSHP autoregressive models. (English summary)

Items with secondary classifications in 62M40

Adler, Robert J. Gaussian random fields on manifolds. (English summary) **2005i:58043**
— *see also* **Taylor, Jonathan E., 2005g:58072**
Anh, V. V. (*with* Leonenko, N. N.; Sakhno, L. M.) Quasi-likelihood-based higher-order spectral estimation of random fields with possible long-range dependence. (English summary) **2005j:62169**
Aoki, Hiroyuki Applications of complex-valued neural networks for image processing. (*see* **2005b:00018**)
Bian, Zheng Zhong *see* **Cheng, Bing[3] et al.**
Chalmond, Bernard ★ Eléments de modélisation pour l'analyse d'images. (French) [Elements of modelling for image analysis] **2005j:62045**
Cheng, Bing[3] (*with* Wang, Ying[8]; Zheng, Nanning; Jia, Xinchun; Bian, Zheng Zhong) MRF model and FRAME model-based unsupervised image segmentation. (English summary)
Choi, Hyemi *see* **Lee, Young Kyung et al., 2005d:62071**
Erland, Sveinung *see* **Rue, Håvard et al.**
Gibbs, Alison L. Convergence in the Wasserstein metric for Markov chain Monte Carlo algorithms with applications to image restoration. (English summary) **2005k:60231**
Godsill, Simon J. *see* **Wolfe, Patrick J. et al.**
Goldstein, Michael[1] (*with* Rougier, Jonathan) Probabilistic formulations for transferring inferences from mathematical models to physical systems. (English summary)
Gotway, Carol A. *see* **Schabenberger, Oliver, 2005k:62001**
Guo, Cheng-En *see* **Wu, Ying Nian et al., (2005m:62005)**
Hirose, Akira *see* **Suksmono, Andriyan Bayu, (2005b:00018)**
Hochbaum, Dorit S. An efficient algorithm for image segmentation, Markov random fields and related problems. (English summary) **2005m:68226**
Jia, Xinchun *see* **Cheng, Bing[3] et al.**
Johnstone, Iain M. (*with* Kerkyacharian, Gérard; Picard, Dominique; Raimondo, Marc E.) Wavelet deconvolution in a periodic setting. (English summary) **2005f:42087**
Keenan, Daniel M. (*with* Shorter, Paula A.) Simulation by diffusion on a manifold with boundary: applications to ultrasonic prenatal medical imaging. (English summary) **2005b:92021**
Kerkyacharian, Gérard *see* **Johnstone, Iain M. et al., 2005f:42087**
Lahiri, Soumendra N. *see* **Nordman, Daniel J., 2005h:62127**
Lee, Young Kyung (*with* Choi, Hyemi; Park, Byeong U.; Yu, K. S.) Local likelihood density estimation on random fields. (English summary) **2005d:62071**
Leonenko, N. N. *see* **Anh, V. V. et al., 2005j:62169**
Machado, Ulla (*with* Rychlik, Igor) Wave statistics in non-linear random sea. (English summary)
Marinucci, Domenico Testing for non-Gaussianity on cosmic microwave background radiation: a review. (English summary)
McElroy, T. (*with* Politis, Dimitris N.) Limit theorems for heavy-tailed random fields with subsampling applications. (English summary) **2005a:62092**
Morato, Laura M. (*with* Siri, Paola) Stochastic learning of fractal images. (English summary) **2005f:94012**
Morisaki, Yoji (*with* Nishii, Ryuei) Contextual image fusion based on Markov random fields and its applications to geo-spatial image enhancement. (English summary) (*see* **2005a:62014**)
Müller, Christine H. Redescending M-estimators in regression analysis, cluster analysis and image analysis. (English summary)
Ng, Wee-Jing *see* **Wolfe, Patrick J. et al.**
Ninomiya, Yoshiyuki Construction of conservative test for change-point problem in two-dimensional random fields. (English summary) **2005a:62143**
Nishii, Ryuei *see* **Morisaki, Yoji, (2005a:62014)**
Nordman, Daniel J. (*with* Lahiri, Soumendra N.) On optimal spatial subsample size for variance estimation. (English summary) **2005h:62127**
Park, Byeong U. *see* **Lee, Young Kyung et al., 2005d:62071**
Picard, Dominique *see* **Johnstone, Iain M. et al., 2005f:42087**
Politis, Dimitris N. *see* **McElroy, T., 2005a:62092**
Qiu, Peihua ★ Image processing and jump regression analysis. **2005h:62007**
Raimondo, Marc E. *see* **Johnstone, Iain M. et al., 2005f:42087**
Rougier, Jonathan *see* **Goldstein, Michael[1]**
Rue, Håvard (*with* Steinsland, Ingelin; Erland, Sveinung) Approximating hidden Gaussian Markov random fields. (English summary)
Rychlik, Igor *see* **Machado, Ulla**
Sakhno, L. M. *see* **Anh, V. V. et al., 2005j:62169**
Schabenberger, Oliver (*with* Gotway, Carol A.) ★ Statistical methods for spatial data analysis. **2005k:62001**
Schreiber, Bertram M. Asymptotically stationary processes on amenable groups. (English summary) **2005m:60110**
Serëzhnikova, T. I. *see* **Vasin, V. V., 2005f:65080**
Shorter, Paula A. *see* **Keenan, Daniel M., 2005b:92021**
Siri, Paola *see* **Morato, Laura M., 2005f:94012**

Steinsland, Ingelin *see* **Rue, Håvard et al.**
Suksmono, Andriyan Bayu (*with* Hirose, Akira) Adaptive interferometric radar image processing by using complex-valued neural network. (*see* **2005b:00018**)
Taylor, Jonathan E. (*with* Adler, Robert J.) Euler characteristics for Gaussian fields on manifolds. (English summary) **2005g:58072**
Vasin, V. V. (*with* Serëzhnikova, T. I.) A two-stage method for the approximation of nonsmooth solutions, and the restoration of a noisy image. (Russian. Russian summary) **2005f:65080**
Wang, Ying[8] *see* **Cheng, Bing[3] et al.**
Wolfe, Patrick J. (*with* Godsill, Simon J.; Ng, Wee-Jing) Bayesian variable selection and regularization for time-frequency surface estimation. (English summary)
Wu, Ying Nian (*with* Guo, Cheng-En; Zhu, Song Chun) Perceptual scaling. (*see* **2005m:62005**)
Yu, K. S. *see* **Lee, Young Kyung et al., 2005d:62071**
Zalesskiĭ, B. A. Gibbs classifiers. (Russian. Russian summary) **2005i:62096**
Zheng, Nanning *see* **Cheng, Bing[3] et al.**
Zhu, Song Chun *see* **Wu, Ying Nian et al., (2005m:62005)**

62M45 Neural nets and related approaches

Becker, Suzanna *see* **Haykin, Simon et al.**
Bernier, José Luis *see* **Rodríguez del Aguila, María del Mar et al., (2005i:62007)**
Chen, Zhe[1] *see* **Haykin, Simon et al.**
Gao, Dayong (*with* Kinouchi, Y.; Ito, K.) Neural networks for event detection from time series: a BP algorithm approach. (English summary) (*see* **2005c:00015**)
Haykin, Simon (*with* Chen, Zhe[1]; Becker, Suzanna) Stochastic correlative learning algorithms. (English summary)
Huang, De-Shuang (*with* Zhao, Wen-Bo) Determining the centres of radial basis probabilistic neural networks by recursive orthogonal least square algorithms. (English summary)
Ikeda, Shiro *see* **Murata, Noboru, (2005f:62005)**
Ito, K. *see* **Gao, Dayong et al., (2005c:00015)**
Jiang, Hongwei *see* **Xia, Jielai et al., (2005c:62003)**
Kinouchi, Y. *see* **Gao, Dayong et al., (2005c:00015)**
Lee, Herbert K. H. Priors for neural networks. (English summary) (*see* **2005i:62003**)
Linton, Oliver B. *see* **Shintani, Mototsugu, 2005a:62211**
Medeiros, Marcelo C. *see* **Suárez-Fariñas, Mayte et al., 2005g:62168**
Mota, Sonia *see* **Rodríguez del Aguila, María del Mar et al., (2005i:62007)**
Murata, Noboru (*with* Ikeda, Shiro) EM algorithm in neural network learning. (*see* **2005f:62005**)
Pedreira, Carlos E. *see* **Suárez-Fariñas, Mayte et al., 2005g:62168**
Requena, Ignacio *see* **Rodríguez del Aguila, María del Mar et al., (2005i:62007)**
Rodríguez del Aguila, María del Mar (*with* Requena, Ignacio; Bernier, José Luis; Ros, Eduardo; Mota, Sonia) Neural networks and statistics: a review of the literature. (*see* **2005i:62007**)
Ros, Eduardo *see* **Rodríguez del Aguila, María del Mar et al., (2005i:62007)**
Saad, David The theory of on-line learning—a statistical physics approach. (English summary) (*see* **2005b:62008**)
Shintani, Mototsugu (*with* Linton, Oliver B.) Nonparametric neural network estimation of Lyapunov exponents and a direct test for chaos. (English summary) **2005a:62211**
Suárez-Fariñas, Mayte (*with* Pedreira, Carlos E.; Medeiros, Marcelo C.) Local global neural networks: a new approach for nonlinear time series modeling. (English summary) **2005g:62168**
Tang, Qiyi *see* **Xia, Jielai et al., (2005c:62003)**
Titterington, D. Michael Bayesian methods for neural networks and related models. (English summary)
Xia, Jielai (*with* Jiang, Hongwei; Tang, Qiyi) Introduction to artificial neural networks. (*see* **2005c:62003**)
Xu, Yong Mao *see* **Zhao, Shi Jian, 2005m:62180**
Zhang, Yanwu Complex-valued generalized Hebbian algorithm and its applications to sensor array signal processing. (*see* **2005b:00018**)
Zhao, Shi Jian (*with* Xu, Yong Mao) Neural network implementation of the PLS algorithm. (Chinese. English and Chinese summaries) **2005m:62180**
Zhao, Wen-Bo *see* **Huang, De-Shuang**

Items with secondary classifications in 62M45

Amosov, O. S. Filtering of Markov sequences on the basis of Bayesian and neural network approaches and of fuzzy logic systems in processing navigational information. (Russian. Russian summary)
Aoki, Hiroyuki Applications of complex-valued neural networks for image processing. (*see* **2005b:00018**)
Bao, Jundong *see* **Luo, Qi et al., 2005j:35123**
Berhane, Indrias (*with* Srinivasan, Cidambi) Stability of neural networks for slightly perturbed training data sets. (English summary) **2005g:68138**
Bossé, Eloi *see* **Xia, You Sheng et al., 2005h:62082**
Cheema, Tanweer Ahmad *see* **Jalil, A. et al.**
Delivopoulos, E. (*with* Theocharis, J. B.) A modified PNN algorithm with optimal PD modeling using the orthogonal least squares method. (English summary)
Deng, Fei Qi *see* **Luo, Qi et al., 2005j:35123**
Dulikravich, George S. *see* **Fan, Hui-Yuan et al.**
Enăchescu, Denis Estimating a boundary in the presence of observation error. (English summary) **2005c:62058**
Fan, Hui-Yuan (*with* Dulikravich, George S.; Han, Zhen-Xue) Aerodynamic data modeling using support vector machines. (English summary)
Fu, Yuli *see* **Luo, Qi et al., 2005j:35123**
Gerstner, Wulfram (*with* Kistler, Werner M.) ★ Spiking neuron models. (English summary) **2005g:92007**
Giordano, Francesco (*with* La Rocca, Michele; Perna, Cira) Bootstrap variables selection in neural network regression models. (English summary) (*see* **2005f:62007**)
Han, Zhen-Xue *see* **Fan, Hui-Yuan et al.**
Hirose, Akira *see* **Suksmono, Andriyan Bayu, (2005b:00018)** *and* **Kawata, Sotaro, (2005b:00018)**
Hou, Chao Zhen *see* **Wang, Fang**
Jalil, A. (*with* Qureshi, I. M.; Cheema, Tanweer Ahmad; Naveed, A.) Hand written character feature extraction using non-linear feedforward neural networks. (English summary)
Kak, Subhash *see* **Rajagopal, Pritam, (2005b:00018)**
Kartynnik, A. V. (*with* Linkevich, A. D.) Sufficient conditions for retrieval of memorized patterns by analog neural networks with synaptic and input Wiener noise. (English summary)
Kawata, Sotaro (*with* Hirose, Akira) Coherent lightwave neural network systems: use of frequency domain. (*see* **2005b:00018**)
Kishigami, Takaaki *see* **Takeda, Mitsuo, (2005b:00018)**
Kistler, Werner M. *see* **Gerstner, Wulfram, 2005g:92007**
Kuroe, Yasuaki A model of complex-valued associative memories and its dynamics. (*see* **2005b:00018**)
La Rocca, Michele *see* **Giordano, Francesco et al., (2005f:62007)**
Larose, Daniel T. ★ Discovering knowledge in data.
Lee, Donq-Liang Complex-valued neural associative memories: network stability and learning algorithm. (*see* **2005b:00018**)
Lee, Herbert K. H. ★ Bayesian nonparametrics via neural networks. **2005a:62011**
Leung, Henry *see* **Xia, You Sheng et al., 2005h:62082**
Linkevich, A. D. *see* **Kartynnik, A. V.**
Lourenço, Carlos Attention-locked computation with chaotic neural nets. (English summary) **2005b:92010**
Luo, Qi (*with* Deng, Fei Qi; Bao, Jundong; Zhao, Birong; Fu, Yuli) Stabilization of stochastic Hopfield neural network with distributed parameters. (English summary) **2005j:35123**
Mitra, Amit *see* **Nag, Ashok K.**
Moon, Myung Sang *see* **Oh, Kyong Joo et al.**
Nag, Ashok K. (*with* Mitra, Amit) Time series lag selection using genetic algorithm. (English summary)
Nakamura, Emi Inflation forecasting using a neural network. (English summary)
Naveed, A. *see* **Jalil, A. et al.**
Nemoto, Iku Complex associative memory and complex single neuron model. (*see* **2005b:00018**)
Oh, Kyong Joo (*with* Roh, Tae Hyup; Moon, Myung Sang) Developing time-based clustering neural networks to use change-point detection: application to financial time series. (English summary)
Oshima-Takane, Yuriko *see* **Takane, Yoshio, (2005b:62010)**
Perna, Cira *see* **Giordano, Francesco et al., (2005f:62007)**
Qureshi, I. M. *see* **Jalil, A. et al.**
Rajagopal, Pritam (*with* Kak, Subhash) Instantaneously trained neural networks with complex inputs. (*see* **2005b:00018**)
Roh, Tae Hyup *see* **Oh, Kyong Joo et al.**
Rynkiewicz, Joseph Introduction to multilayer perceptron and hybrid hidden Markov models. (English summary) **2005b:91188**
Srinivasan, Cidambi *see* **Berhane, Indrias, 2005g:68138**
Suksmono, Andriyan Bayu (*with* Hirose, Akira) Adaptive interferometric radar image processing by using complex-valued neural network. (*see* **2005b:00018**)
Takane, Yoshio (*with* Oshima-Takane, Yuriko) Nonlinear generalized canonical correlation analysis by neural network models. (English summary) (*see* **2005b:62010**)
Takeda, Mitsuo (*with* Kishigami, Takaaki) Complex neural network model with analogy to self-oscillation generated in an optical phase-conjugate resonator. (*see* **2005b:00018**)
Theocharis, J. B. *see* **Delivopoulos, E.**
Wang, Fang (*with* Hou, Chao Zhen) Evaluation of the reliability of a stochastic flow network using Monte Carlo method and the Petri net. (Chinese. English and Chinese summaries)
Xia, You Sheng (*with* Leung, Henry; Xie, Nan[2]; Bossé, Eloi) A new regression estimator with neural network realization. (English summary) **2005h:62082**
Xie, Nan[2] *see* **Xia, You Sheng et al., 2005h:62082**
Yang, Ke New lower bounds for statistical query learning. (English summary) **2005m:68109**
Zhao, Birong *see* **Luo, Qi et al., 2005j:35123**

62M99 None of the above, but in this section

Cao, Mao Yong (*with* Sun, Nong Liang; Yu, Dao Yin) Polar-radius-invariant-moment for pattern recognition. (Chinese. English and Chinese summaries)
Horowitz, Joseph *see* **Rosenkrantz, Walter A., 2005j:62194**
Rosenkrantz, Walter A. (*with* Horowitz, Joseph) The infinite source model for internet traffic: statistical analysis and limit theorems. **2005j:62194**
Sun, Nong Liang *see* **Cao, Mao Yong et al.**
Yu, Dao Yin *see* **Cao, Mao Yong et al.**

Items with secondary classifications in 62M99

Bowling, Shannon R. (*with* Khasawneh, Mohammad T.; Kaewkuekool, Sittichai; Cho, Byung Rae) A Markovian approach to determining optimum process target levels for a multi-stage serial production system. (English summary)
Buldygin, Valerii V. (*with* Utzet, Frederic; Zayats, Vladimir) Asymptotic normality of cross-correlogram estimates of the response function. (English summary) **2005e:62024**
Cai, T. Tony (*with* Low, Mark G.) Minimax estimation of linear functionals over nonconvex parameter spaces. (English summary) **2005d:62092**
Cho, Byung Rae *see* **Bowling, Shannon R. et al.**
Hu, Jin Yan[2] *see* **Lu, Cong De et al.**
Kaewkuekool, Sittichai *see* **Bowling, Shannon R. et al.**
Khasawneh, Mohammad T. *see* **Bowling, Shannon R. et al.**
Low, Mark G. *see* **Cai, T. Tony, 2005d:62092**
Lu, Cong De (*with* Zhang, Tai Yi; Hu, Jin Yan[2]) Support vector domain classifier based on multiplicative updates. (Chinese. English and Chinese summaries)

Utzet, Frederic *see* **Buldygin, Valerii V. et al., 2005e:62024**
Zayats, Vladimir *see* **Buldygin, Valerii V. et al., 2005e:62024**
Zhang, Tai Yi *see* **Lu, Cong De et al.**

62Nxx Survival analysis and censored data

Items with secondary classifications in 62Nxx

(Balakrishnan, Narayanaswamy) *see* **Advances in survival analysis, 2005a:62015**
Desu, M. M. (*with* Raghavarao, D.) ★ Nonparametric statistical methods for complete and censored data. **2005d:62003**
Huzurbazar, Aparna V. ★ Flowgraph models for multistate time-to-event data. **2005f:62002**
Raghavarao, D. *see* **Desu, M. M., 2005d:62003**
(Rao, Calyampudi Radhakrishna) *see* **Advances in survival analysis, 2005a:62015**

Items listed otherwise than by author

Advances in survival analysis ★ Advances in survival analysis. **2005a:62015**

62N01 Censored data models

Akritas, Michael G. *see* **O'Gorman, John T.**
Amaral-Turkman, M. Antónia *see* **Silva, Giovani L.**
Balakrishnan, Narayanaswamy (*with* Bordes, Laurent) Non-parametric hazard rate estimation under progressive type-II censoring. **2005k:62227**
— *see also* **Kundu, Debasis et al., 2005e:62131**; **Hofmann, Glenn et al., 2005j:62195** *and* **Ng, H. K. T. et al.**
Bar-Lev, Shaul K. Likelihood-based inference for the shape parameter of a two parameter Weibull distribution. (English summary)
Bordes, Laurent *see* **Balakrishnan, Narayanaswamy, 2005k:62227**
Cai, Tianxi (*with* Cheng, Su-Chun) Semiparametric regression analysis for doubly censored data. (English summary) **2005b:62196**
Calder, C. *see* **Dunson, David B. et al.**
Chan, Ping Shing *see* **Ng, H. K. T. et al.**
Chappell, Rick *see* **Jiang, Hongyu et al., 2005k:62228**
Chen, Ming-Hui *see* **Sinha, Debajyoti et al., (2005i:62004)**
Cheng, Su-Chun *see* **Cai, Tianxi, 2005b:62196**
Cheng, Wei Hu *see* **Yang, Zhen Hai**
Chowdhury, Abdul H. On the application of Boolean function in designed experiments with censored response data. (English summary)
Coolen, F. P. A. (*with* Yan, K. J.) Nonparametric predictive inference with right-censored data. (English summary)
Cramer, Erhard *see* **Hofmann, Glenn et al., 2005j:62195**
Crown, John S. *see* **Reineke, David M.**
Dauxois, Jean-Yves (*with* Kirmani, Syed N. U. A.) On testing the proportionality of two cumulative incidence functions in a competing risks setup. (English summary) **2005c:62175**
Dunson, David B. (*with* Holloman, C.; Calder, C.; Gunn, L. H.) Bayesian modeling of multiple lesion onset and growth from interval-censored data. (English summary)
Fang, Yixin *see* **Zhao, Lin Cheng, 2005c:62179**
Fei, He Liang *see* **Sun, Li Bin, 2005e:62133**
Ferland, René (*with* Froda, Sorana; Lavigne, Jean) A simulation study of a minimum distance estimator for finite mixtures under censoring. (English summary) (*see* **2005m:62007**)
Fine, Jason P. *see* **Jiang, Hongyu et al., 2005k:62228** *and* **Kosorok, Michael R. et al., 2005m:62181**
Froda, Sorana *see* **Ferland, René et al., (2005m:62007)**
Ghazzali, Nadia *see* **Saïd, Mériem et al., (2005m:62007)**
Gilbert, Peter B. (*with* McKeague, Ian W.; Sun, Yanqing) Tests for comparing mark-specific hazards and cumulative incidence functions. (English summary) **2005a:62212**
Gomes, M. Ivette (*with* Oliveira, Orlando) Censoring estimators of a positive tail index. (English summary) **2005d:62155**
Gunn, L. H. *see* **Dunson, David B. et al.**
Gürler, Ülkü Nonparametric bivariate estimation with randomly truncated observations. (*see* **2005a:62015**)
Haghighi, F. (*with* Nikulin, Mikhail S.) A chi-squared test for power generalized Weibull family for the head-and-neck cancer censored data. (English and Russian summaries)
He, Shu Yuan *see* **Wang, Yan Hua[1] et al., 2005b:62197**
Hofmann, Glenn (*with* Cramer, Erhard; Balakrishnan, Narayanaswamy; Kunert, Gerd) An asymptotic approach to progressive censoring. (English summary) **2005j:62195**
Holloman, C. *see* **Dunson, David B. et al.**
Hu, Yu Ping Estimation of contamination coefficients of censored data. (Chinese. English and Chinese summaries)
Hutson, Alan D. Exact nonparametric bootstrap confidence bands for the quantile function given censored data. (English summary)
Ibrahim, Joseph G. *see* **Sinha, Debajyoti et al., (2005i:62004)**
Jeng, Shuen-Lin (*with* Lahiri, Soumendra N.; Meeker, William Q.) Asymptotic properties of bootstrapped likelihood ratio statistics for time censored data. (English summary) **2005j:62196**
Jiang, Hongyu (*with* Fine, Jason P.; Kosorok, Michael R.; Chappell, Rick) Pseudo self-consistent estimation of a copula model with informative censoring. (English summary) **2005k:62228**
Kalbfleisch, John D. *see* **Prentice, Ross L., 2005a:62213**
Kannan, Nandini *see* **Kundu, Debasis et al., 2005e:62131**
van Keilegom, Ingrid A note on the nonparametric estimation of the bivariate distribution under dependent censoring. (English summary) **2005f:62151**
Kim, Yang-jin *see* **Sun, Liuquan et al.**
Kirmani, Syed N. U. A. *see* **Dauxois, Jean-Yves, 2005c:62175**
Korwar, Ramesh On the likelihood ratio order for progressive type II censored order statistics. (English summary) **2005d:62156**
Kosorok, Michael R. (*with* Lee, Bee Leng; Fine, Jason P.) Robust inference for univariate proportional hazards frailty regression models. (English summary) **2005m:62181**
— *see also* **Jiang, Hongyu et al., 2005k:62228**
Kundu, Debasis (*with* Kannan, Nandini; Balakrishnan, Narayanaswamy) Analysis of progressively censored competing risks data. **2005e:62131**
Kunert, Gerd *see* **Hofmann, Glenn et al., 2005j:62195**
Lahiri, Soumendra N. *see* **Jeng, Shuen-Lin et al., 2005j:62196**
Lavigne, Jean *see* **Ferland, René et al., (2005m:62007)**
Lee, Bee Leng *see* **Kosorok, Michael R. et al., 2005m:62181**
Li, Bu Xi *see* **Song, Yi Jun, 2005e:62132**
Ling, Neng Xiang Consistency of regression functions based on partitioning estimates with censored data. (Chinese. Chinese summary) **2005d:62157**
McKeague, Ian W. *see* **Gilbert, Peter B. et al., 2005a:62212**
Meeker, William Q. *see* **Jeng, Shuen-Lin et al., 2005j:62196**
Mei, Chang Lin *see* **Wang, Yan Hua[1] et al., 2005b:62197**
Ng, H. K. T. (*with* Chan, Ping Shing; Balakrishnan, Narayanaswamy) Optimal progressive censoring plans for the Weibull distribution. (English summary)
Nikulin, Mikhail S. *see* **Haghighi, F.**
O'Gorman, John T. (*with* Akritas, Michael G.) Nonparametric models and metods for designs with dependent censored data. II. (English summary)
Oliveira, Orlando *see* **Gomes, M. Ivette, 2005d:62155**
Ouyang, Zi Sheng Normal approximation of regression function by randomly right-censored data. (Chinese. English and Chinese summaries) **2005f:62149**
Prentice, Ross L. (*with* Kalbfleisch, John D.) Mixed discrete and continuous Cox regression model. (English summary) **2005a:62213**
Reineke, David M. (*with* Crown, John S.) Estimation of hazard, density and survivor functions for randomly censored data. (English summary)
Rivest, Louis-Paul *see* **Saïd, Mériem et al., (2005m:62007)**
Saïd, Mériem (*with* Ghazzali, Nadia; Rivest, Louis-Paul) Score tests for dependent censoring with survival data. (English summary) (*see* **2005m:62007**)
Silva, Giovani L. (*with* Amaral-Turkman, M. Antónia) Bayesian analysis of an additive survival model with frailty. (English summary)
Sinha, Debajyoti (*with* Chen, Ming-Hui; Ibrahim, Joseph G.) Bayesian inference for survival data with a surviving fraction. (English summary) (*see* **2005i:62004**)
Song, Yi Jun (*with* Li, Bu Xi) Consistency and asymptotic normality of MLE for random censoring models with incomplete information. (Chinese. English and Chinese summaries) **2005e:62132**
Stute, Winfried Kaplan-Meier integrals. (*see* **2005a:62015**)
Subramanian, Sundarraman The missing censoring-indicator model of random censorship. **2005f:62150**
— Asymptotically efficient estimation of a survival function in the missing censoring indicator model. (English summary) **2005c:62176**
— Survival-rate regression using kernel conditional Kaplan-Meier estimators. (English summary) **2005c:62177**
Sun, Jianguo Statistical analysis of doubly interval-censored failure time data. (*see* **2005a:62015**)
— *see also* **Sun, Liuquan et al.**
Sun, Li Bin (*with* Fei, He Liang) Moment estimation of the three-parameter Weibull distribution under censored samples. (Chinese. English and Chinese summaries) **2005e:62133**
Sun, Liuquan (*with* Kim, Yang-jin; Sun, Jianguo) Regression analysis of doubly censored failure time data using the additive hazards model. (English summary)
Sun, Yanqing *see* **Gilbert, Peter B. et al., 2005a:62212**
Suzukawa, Akio Unbiased estimation of functionals under random censorship. (English summary) **2005h:62269**
Tikhov, M. S. Statistical estimation based on interval censored data. (English summary) (*see* **2005d:62008**)
de Uña-Álvarez, Jacobo Nelson-Aalen and product-limit estimation in selection bias models for censored populations. (English summary) **2005d:62158**
Wang, Yan Hua[1] (*with* He, Shu Yuan; Mei, Chang Lin) Fisher information for censored data from location scale families. (Chinese. English and Chinese summaries) **2005b:62197**
Wu, Ke[3] Estimating the convolution of distributions under the Koziol-Green model of random censorship. (English summary) **2005c:62178**
Yan, K. J. *see* **Coolen, F. P. A.**
Yang, Zhen Hai (*with* Cheng, Wei Hu) Approximate maximum likelihood estimation based on logistic distribution parameters of type II censored samples. (Chinese. English and Chinese summaries)
Zeng, Donglin Estimating marginal survival function by adjusting for dependent censoring using many covariates. (English summary) **2005g:62169**
Zhao, Lin Cheng (*with* Fang, Yixin) Random weighting method for censored regression model. (English summary) **2005c:62179**

Items with secondary classifications in 62N01

Aggarwala, Rita *see* **Chowdhury, Abdul H.**
Ahmed, S. E. *see* **BuHamra, Sana S. et al.**
Al-Kandari, Noriah M. *see* **BuHamra, Sana S. et al.**
Aly, Emad-Eldin A. A. *see* **BuHamra, Sana S.**
Bae, Sejong *see* **Peschell, K. J. et al.**
Bagdonavičius, Vilijandas B. (*with* Levuliene, Ruta J.; Nikulin, Mikhail S.) Tests d'égalité contre l'alternative de croisement de deux fonctions de survie. (English and French summaries) [Tests for equality against the alternative of crossing of two survival functions]
Balakrishnan, Narayanaswamy (*with* Kim, J.-A.) EM algorithm for type-II right censored bivariate normal data. (English summary) (*see* **2005d:62008**)
— (*with* Lin, Chien-Tai; Chan, Ping Shing) Exact inference and prediction for K-sample two-parameter exponential case under general type-II censoring. (English summary)
— (*with* Kim, J.-A.) EM algorithm and optimal censoring schemes for progressively type-II censored bivariate normal data. (English summary) (*see* **2005h:62008**)
Bartolucci, A. A. *see* **Peschell, K. J. et al.**

Brain, Phil *see* **O'Neill, Michael E. et al.**
BuHamra, Sana S. (*with* Aly, Emad-Eldin A. A.) Nonparametric change point tests for LTRC data. (English summary)
— (*with* Al-Kandari, Noriah M.; Ahmed, S. E.) Inference concerning quantile for left truncated and right censored data. (English summary)
Bunea, Florentina (*with* McKeague, Ian W.) Covariate selection for semiparametric hazard function regression models. (English summary) **2005m:62182**
Butler, Ruth C. *see* **O'Neill, Michael E. et al.**
Cai, Jianwen (*with* Kim, Jinheum) Nonparametric quantile estimation with correlated failure time data. (English summary) **2005a:62084**
— *see also* **Kong, Lan et al.**, **2005b:62074**
Calle, M. Luz *see* **Oller, Ramon et al.**, **2005j:62198** *and* **Lawless, Jerald F.**, **2005j:62199**
Cao, Ricardo (*with* Jácome, M. A.) Presmoothed kernel density estimator for censored data. (English summary) **2005k:62099**
Cator, Eric A. On the testability of the car assumption. (English summary) **2005h:62130**
Chan, Ping Shing *see* **Balakrishnan, Narayanaswamy et al.**
Chen, Jia Ding *see* **Zhang, Aijun et al.**, **2005b:62079**
Chen, Jianwei (*with* Choy, S. T. Boris; Li, Kim Hung) Optimal Bayesian sampling acceptance plan with random censoring. (English summary) **2005a:62029**
Chen, Ming-Hui (*with* Ibrahim, Joseph G.; Sinha, Debajyoti) A new joint model for longitudinal and survival data with a cure fraction. (English summary)
Choi, Seung Hoe (*with* Kim, Hae Kyung) The strong consistency of the asymmetric least squares estimators in nonlinear censored regression models. (English summary) **2005b:62142**
Chowdhury, Abdul H. (*with* Aggarwala, Rita) Identification of censored response data in a multivariate experiment. (English summary)
Choy, S. T. Boris *see* **Chen, Jianwei et al.**, **2005a:62029**
Copas, John B. *see* **Lu, Guobing**, **2005d:62014**
Cosslett, Stephen R. Efficient semiparametric estimation of censored and truncated regressions via a smoothed self-consistency equation. (English summary) **2005a:62086**
Cramer, Erhard Logconcavity and unimodality of progressively censored order statistics. (English summary) **2005c:62088**
Dauxois, Jean-Yves *see* **Kirmani, Syed N. U. A.**, **2005c:62080**
Delafosse, Emmanuel (*with* Guillou, Armelle) Extreme quantiles estimation for actuarial applications. (English and French summaries)
Dudoit, Sandrine *see* **Keleş, Sündüz et al.**, **2005i:62017**
Eissa, Fathy H. *see* **Nassar, Manal M.**
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Fei, He Liang *see* **Wang, Rong Hua[2]**, **2005g:62171**
Fung, Wing Kam *see* **Shi, Peide**, **2005b:62198**
Ganjali, Mojtaba (*with* Jolani, S.) Moments of the truncated multivariate normal distribution and their applications to censored regression models. (English summary)
Gardiner, J. C. *see* **Rahbar, M. H.**
Geffray, Ségolen (*with* Guilloux, Agathe) Estimation dans un modèle de Koziol-Green généralisé. (English and French summaries) [Estimation in a generalized Koziol-Green model]
Gill, Amar Nath *see* **Singh, Parminder**, **2005b:62062**
Gillen, Daniel L. (*with* Emerson, Scott S.) Information growth in a family of weighted logrank statistics under repeated analyses. (English summary)
Gómez, Guadalupe *see* **Oller, Ramon et al.**, **2005j:62198** *and* **Lawless, Jerald F.**, **2005j:62199**
Groenewald, Pieter C. N. (*with* Mokgatlhe, Lucky) Bayesian analysis of bivariate interval censored survival data. (English summary)
Guillou, Armelle *see* **Delafosse, Emmanuel**
Guilloux, Agathe *see* **Geffray, Ségolen**
Gupta, Ramesh C. *see* **Gupta, Rameshwar D. et al.**, **2005k:62035**
Gupta, Rameshwar D. (*with* Gupta, Ramesh C.; Sankaran, P. G.) Some characterization results based on factorization of the (reversed) hazard rate function. (English summary) **2005k:62035**
Haq, M. Safiul *see* **Khan, Hafiz M. R. et al.**
He, Shu Yuan (*with* Wong, Heung) Central limit theorem of linear regression model under right censorship. (English summary) **2005d:62056**
— (*with* Wang, Yan Hua[1]) The law of the iterated logarithm of the Kaplan-Meier integral and its application. (English summary) **2005b:60071**
He, Wenqing (*with* Lawless, Jerald F.) Bivariate location-scale models for regression analysis, with applications to lifetime data. (English summary)
Heimann, Günter (*with* Neuhaus, Georg) On the exact conditional distribution for Peto's combined test for carcinogenicity assays. (English summary) **2005h:62049**
Honoré, Bo E. (*with* Hu, Luojia) Estimation of cross sectional and panel data censored regression models with endogeneity. (English summary)
Höpfner, L. *see* **Radespiel-Tröger, M. et al.**, (**2005b:62008**)
Hu, Luojia *see* **Honoré, Bo E.**
Huang, Chiung-Yu (*with* Wang, Mei-Cheng) Joint modeling and estimation for recurrent event processes and failure time data. (English summary) **2005g:62175**
Hung, Wen-Liang (*with* Wu, Jong-Wuu) Parameter estimation of the Pareto distribution under the first failure-censored sampling plan. (English summary) **2005b:62053**
Hušková, Marie (*with* Neuhaus, Georg) Change point analysis for censored data. (English summary) **2005m:62102**
Ibragimov, Il'dar Abdulovich An estimate for the analytic density of a distribution, based on a censored sample. (Russian. English and Russian summaries) **2005k:62101**
Ibrahim, Joseph G. *see* **Chen, Ming-Hui et al.**
Iftikhar-ud-Din *see* **Jan, Bahrawar et al.**
Iqbal, Mohammad[2] *see* **Jan, Bahrawar et al.**
Jacobs, Brent C. *see* **O'Neill, Michael E. et al.**
Jácome, M. A. *see* **Cao, Ricardo**, **2005k:62099**
Jan, Bahrawar (*with* Shah, S. Waqar Ali; Iqbal, Mohammad[2]; Iftikhar-ud-Din) Weighted score test for comparing the survival distribution in case of heavy censoring. (English summary)
Janssen, Arnold (*with* Werft, Wiebke) A survey about the efficiency of two-sample survival tests for randomly censored data. (English summary) **2005h:62273**
Jing, Bing-Yi *see* **Wang, Qi-Hua**, **2005k:62072**
John, A. M. *see* **Watkins, A. J.**
Jolani, S. *see* **Ganjali, Mojtaba**
Joshi, Narayan Kumar *see* **Srivastava, Radhey Shyam et al.**
Kahle, Waltraud *see* **Wendt, Heide**, (**2005d:62008**)
Keleş, Sündüz (*with* van der Laan, Mark J.; Robins, James M.) Estimation of the bivariate survival function with generalized bivariate right censored data structures. **2005e:62086**
— (*with* van der Laan, Mark J.; Dudoit, Sandrine) Asymptotically optimal model selection method with right censored outcomes. (English summary) **2005i:62017**
Khan, Hafiz M. R. (*with* Haq, M. Safiul; Provost, Serge B.) Predictive distributions for responses from the Weibull life testing model. (English summary)
Kim, Hae Kyung *see* **Choi, Seung Hoe**, **2005b:62142**
Kim, J.-A. *see* **Balakrishnan, Narayanaswamy**, (**2005d:62008**) *and* (**2005h:62008**)
Kim, Jinheum *see* **Cai, Jianwen**, **2005a:62084**
Kim, Yongdai (*with* Lee, Jaeyong) A Bernstein-von Mises theorem in the nonparametric right-censoring model. (English summary) **2005i:62021**
Kirmani, Syed N. U. A. (*with* Dauxois, Jean-Yves) Testing the Koziol-Green model against monotone conditional odds for censoring. (English summary) **2005c:62080**
Kong, Lan (*with* Cai, Jianwen; Sen, Pranab Kumar[1]) Weighted estimating equations for semiparametric transformation models with censored data from a case-cohort design. (English summary) **2005b:62074**
Koti, Kallappa M. On estimating the gamma accelerated failure-time models. **2005j:62200**
Kumar, Vijay *see* **Srivastava, Radhey Shyam et al.**
Kvaløy, Jan Terje (*with* Lindqvist, Bo Henry) The covariate order method for nonparametric exponential regression and some applications in other lifetime models. (English summary) **2005k:62092**
van der Laan, Mark J. *see* **Keleş, Sündüz et al.**, **2005e:62086** *and* **2005i:62017**
Laird, Nan M. *see* **Slasor, Peter**, (**2005a:62015**)
Lawless, Jerald F. A note on interval-censored lifetime data and the constant-sum condition of Oller, Gómez & Calle (2004). Comment on: "Interval censoring: model characterizations for the validity of the simplified likelihood" [Canad. J. Statist. **32** (2004), no. 3, 315–326; MR2101759 (2005j:62198)] by Ramon Oller, Guadalupe Gómez, and M. Luz Calle. (English and French summaries) **2005j:62199**
— *see also* **He, Wenqing**
Lee, Jaeyong *see* **Kim, Yongdai**, **2005i:62021**
Leviliene, Ruta J. *see* **Bagdonavičius, Vilijandas B. et al.**
Li, Kim Hung *see* **Chen, Jianwei et al.**, **2005a:62029**
Li, Si Hua (*with* Zheng, Ming[2]) Empirical likelihood for linear regression analysis with censored data. (Chinese. English and Chinese summaries) **2005d:62113**
— *see also* **Zheng, Ming[2] et al.**, **2005h:62179** *and* **2005h:62271**
Li, Yan Ling[3] (*with* Zhao, Xuanmin; Xie, Wenxian) Bayesian prediction for the two-parameter exponential distribution based on type II doubly censoring. (English summary)
Liang, Ta Chen Empirical Bayes estimation with random right censoring. (English summary) **2005j:62022**
Lim, Hee-Jeong *see* **Sun, Jianguo et al.**, **2005f:62153** *and* **Zhao, Xingqiu et al.**, **2005i:62146**
Lin, Chien-Tai *see* **Balakrishnan, Narayanaswamy et al.**
Lindqvist, Bo Henry *see* **Kvaløy, Jan Terje**, **2005k:62092**
Liu, Li Ping[4] *see* **Zhang, Aijun et al.**, **2005b:62079**
Lu, Guobing (*with* Copas, John B.) Missing at random, likelihood ignorability and model completeness. (English summary) **2005d:62014**
Lu, Kaifeng (*with* Tsiatis, Anastasios A.) Comparison between two partial likelihood approaches for the competing risks model with missing cause of failure. (English summary)
McKeague, Ian W. *see* **Bunea, Florentina**, **2005m:62182**
Mishra, G. C. *see* **Pandey, B. N. et al.**
Mitakda, Bernadetha *see* **O'Neill, Michael E. et al.**
Mokgatlhe, Lucky *see* **Groenewald, Pieter C. N.**
Moodie, F. Zoe *see* **Prentice, Ross L. et al.**, (**2005j:62008**)
Nan, Bin Efficient estimation for case-cohort studies. (English and French summaries) **2005j:62197**
Nassar, Manal M. (*with* Eissa, Fathy H.) Bayesian estimation for the exponentiated Weibull model. (English summary)
Neuhaus, Georg *see* **Heimann, Günter**, **2005h:62049** *and* **Hušková, Marie**, **2005m:62102**
Nguyen, Danh V. Partial least squares dimension reduction for microarray gene expression data with a censored response. (English summary)
Nikulin, Mikhail S. *see* **Bagdonavičius, Vilijandas B. et al.**
Oller, Ramon (*with* Gómez, Guadalupe; Calle, M. Luz) Interval censoring: model characterizations for the validity of the simplified likelihood. (English and French summaries) **2005j:62198**
— *see also* **Lawless, Jerald F.**, **2005j:62199**
O'Neill, Michael E. (*with* Thomson, Peter C.; Jacobs, Brent C.; Brain, Phil; Butler, Ruth C.; Turner, Heather; Mitakda, Bernadetha) Fitting and comparing seed germination models with a focus on the inverse normal distribution. (English summary)
Pandey, B. N. (*with* Srivastava, Arun Kumar[2]; Mishra, G. C.) Invariant version of linex loss function and its applications in exponential type II censored data. (English summary)
Park, Hyo-Il Median test for multivariate and right censored data. (English summary) **2005k:62128**
Park, Sangun *see* **Zheng, Gang[1]**, **2005f:62154**
Patel, M. N. Testing and interval estimation for exponential life distribution using progressively censored sample. (English summary)
Peng, Liang (*with* Qi, Yongcheng) Estimating the first- and second-order parameters of a heavy-tailed distribution. (English summary)
Peschell, K. J. (*with* Bae, Sejong; Shanmugam, R.; Bartolucci, A. A.; Singh, Karan P.) Therapeutic equivalence assessment (TEA) for exponential data. (English summary)
Pons, Odile Estimation of semi-Markov models with right-censored data. **2005h:62230**
Prentice, Ross L. (*with* Moodie, F. Zoe; Wu, Jian Rong[1]) Nonparametric estimation of the bivariate survivor function. (English summary) (*see* **2005j:62008**)
Provost, Serge B. *see* **Khan, Hafiz M. R. et al.**
Qi, Yongcheng *see* **Peng, Liang**

Rabenstein, T. *see* **Radespiel-Tröger, M. et al.**, (2005b:62008)
Radespiel-Tröger, M. (*with* Rabenstein, T.; Höpfner, L.; Schneider, H. T.) Comparing split criteria for constructing survival trees. (English summary) (*see* **2005b:62008**)
Rahbar, M. H. (*with* Gardiner, J. C.) Nonparametric modeling of the mean survival time in a multi-factor design based on randomly right-censored data. (English summary)
Rao, Pejaver Vishwamber Testing equality of survival functions with bivariate censored data: a review. (*see* **2005a:62015**)
Robins, James M. *see* **Keleş, Sündüz et al.**, 2005e:62086
Rodríguez-Casal, Alberto (*with* de Uña-Álvarez, Jacobo) Nonlinear wavelet density estimation under the Koziol-Green model. (English summary) **2005a:62106**
Sabapathi, Durai (*with* Thavaneswaran, A.) Nonparametric estimation with censored observations. (English summary) **2005b:62089**
Sankaran, P. G. *see* **Gupta, Rameshwar D. et al.**, 2005k:62035
Schneider, H. T. *see* **Radespiel-Tröger, M. et al.**, (2005b:62008)
Sen, Pranab Kumar[1] *see* **Kong, Lan et al.**, 2005b:62074
Shah, S. Waqar Ali *see* **Jan, Bahrawar et al.**
Shanmugam, R. *see* **Peschell, K. J. et al.**
Shao, Quanxi Notes on maximum likelihood estimation for the three-parameter Burr XII distribution. (English summary) **2005a:62064**
Shen, Ju Hong (*with* Wei, Li Li) A Bayesian approach to fuzzy hypothesis testing for exponential distribution. (Chinese. English and Chinese summaries)
Shen, Pao-sheng Estimation of survival function subject to time-dependent covariates and left truncation. (English summary) **2005f:62152**
Shi, Peide (*with* Fung, Wing Kam) Estimation of covariate effects in Cox's regression models with frailties. (English summary) **2005b:62198**
Siannis, Fotios Applications of a parametric model for informative censoring. (English summary)
Singh, Karan P. *see* **Peschell, K. J. et al.**
Singh, Parminder (*with* Gill, Amar Nath) Confidence intervals for the ratios of ranked scale parameters for censored data. (English summary) **2005b:62062**
Sinha, Debajyoti *see* **Chen, Ming-Hui et al.**
Slasor, Peter (*with* Laird, Nan M.) Categorical auxiliary data in the discrete time proportional hazards model. (*see* **2005a:62015**)
Slud, Eric V. (*with* Vonta, Filia) Efficient semiparametric estimators via modified profile likelihood. (English summary) **2005k:62094**
Srivastava, Arun Kumar[2] *see* **Pandey, B. N. et al.**
Srivastava, Radhey Shyam (*with* Kumar, Vijay; Joshi, Narayan Kumar) Bayesian estimation of reliability for generalized Burr life time distribution under time censoring. (English summary)
Sun, Jianguo (*with* Lim, Hee-Jeong; Zhao, Xingqiu) An independence test for doubly censored failure time data. (English summary) **2005f:62153**
— (*with* Zhao, Qiang[2]; Zhao, Xingqiu) Generalized log-rank tests for interval-censored failure time data. (English summary) **2005k:62237**
— *see also* **Zhao, Xingqiu et al.**, 2005i:62146
Sun, Liuquan *see* **Zhou, Xian**, 2005b:62199
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Wang, Mei-Cheng *see* **Huang, Chiung-Yu**, 2005g:62175
Wang, Qi-Hua (*with* Jing, Bing-Yi) Estimation by method of moment under two-sample location-scale model with random censorship. (English summary) **2005k:62072**
Wang, Qingcheng *see* **Zhang, Aijun et al.**, 2005b:62079
Wang, Rong Hua[2] (*with* Fei, He Liang) Statistical analysis for the Birnbaum-Saunders fatigue life distribution under type-II bilateral censoring and multiply type-II censoring. (English summary) **2005g:62171**
Wang, Yan Hua[1] *see* **He, Shu Yuan**, 2005b:60071
Watkins, A. J. (*with* John, A. M.) On the expected Fisher information for the Weibull distribution with type I censored data. (English summary)
Wei, Li Li *see* **Shen, Ju Hong**
Wendt, Heide (*with* Kahle, Waltraud) On parameter estimation for a position-dependent marking of a doubly stochastic Poisson process. (English summary) (*see* **2005d:62008**)
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Wong, George Y. C. *see* **Yu, Qiqing**
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Xie, Wenxian *see* **Li, Yan Ling[3] et al.**
Yang, Yi *see* **Zheng, Ming[2] et al.**, 2005h:62271
Yu, Qiqing (*with* Wong, George Y. C.) Modified semiparametric maximum likelihood estimator in linear regression analysis with complete data or right-censored data. (English summary)
Zhang, Aijun (*with* Chen, Jia Ding; Liu, Li Ping[4]; Wang, Qingcheng) An algorithm for maximum likelihood estimates to semi-parametric regression model with interval censored data. (English summary) **2005b:62079**
Zhao, Qiang[2] *see* **Sun, Jianguo et al.**, 2005k:62237
Zhao, Xingqiu (*with* Lim, Hee-Jeong; Sun, Jianguo) Estimating equation approach for regression analysis of failure time data in the presence of interval-censoring. (English summary) **2005i:62146**
— *see also* **Sun, Jianguo et al.**, 2005f:62153 *and* 2005k:62237
Zhao, Xuanmin *see* **Li, Yan Ling[3] et al.**
Zheng, Gang[1] (*with* Park, Sangun) A note on time savings in censored life testing. (English summary)
— (*with* Park, Sangun) Another look at life testing. (English summary) **2005f:62154**
Zheng, Ming[2] (*with* Li, Si Hua; Yang, Yi) Empirical likelihood for a class of functionals of survival distribution with censored data. (Chinese. English and Chinese summaries) **2005h:62271**
— (*with* Li, Si Hua) Empirical likelihood-based inference in linear models with censored data. (Chinese. English and Chinese summaries) **2005h:62179**
— *see also* **Li, Si Hua**, 2005d:62113
Zhou, Xian (*with* Sun, Liuquan) Additive hazards regression with missing censoring information. (English summary) **2005b:62199**

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Bagdonavičius, Vilijandas B. (*with* Zdorova-Cheminade, Olga; Nikulin, Mikhail S.) Statistical planning and inference in accelerated life testing using the CHSS model. (English summary)
Bajorunaite, Ruta *see* **Klein, John P.**, (2005a:62015)
Balakrishnan, Narayanaswamy (*with* Kim, J.-A.) EM algorithm for type-II right censored bivariate normal data. (English summary) (*see* **2005d:62008**)
Bhattacharjee, Arnab Estimation in hazard regression models under ordered departures from proportionality. (English summary)
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Chen, Kani Statistical estimation in the proportional hazards model with risk set sampling. (English summary) **2005k:62229**
Cook, Thomas D. (*with* Kosorok, Michael R.) Analysis of time-to-event data with incomplete event adjudication. (English summary) **2005h:62270**
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Ebrahimi, Nader Indirect assessment of the bivariate survival function. (English summary)
Fagerstrom, Richard M. *see* **Xu, Jian-Lun et al.**, 2005d:62159
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Fernández, Arturo J. On estimating exponential parameters with general type II progressive censoring. (English summary) **2005c:62180**
Fung, Wing Kam *see* **Shi, Peide**, 2005b:62198
Gardiner, J. C. *see* **Rahbar, M. H.**
Geffray, Ségolen (*with* Guilloux, Agathe) Estimation dans un modèle de Koziol-Green généralisé. (English and French summaries) [Estimation in a generalized Koziol-Green model]
Gómez, Guadalupe *see* **Oller, Ramon et al.**, 2005j:62198 *and* **Lawless, Jerald F.**, 2005j:62199
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Honoré, Bo E. (*with* Hu, Luojia) Estimation of cross sectional and panel data censored regression models with endogeneity. (English summary)
Hu, Luojia *see* **Honoré, Bo E.**
Kahle, Waltraud *see* **Wendt, Heide**, (2005d:62008)
Kim, J.-A. *see* **Balakrishnan, Narayanaswamy**, (2005d:62008)
Klein, John P. (*with* Bajorunaite, Ruta) Inference for competing risks. (*see* **2005a:62015**)
Kosorok, Michael R. *see* **Cook, Thomas D.**, 2005h:62270
Kramer, Barnett S. *see* **Xu, Jian-Lun et al.**, 2005d:62159
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Läuter, Henning Estimation in partly parametric additive Cox models. (English summary) (*see* **2005d:62008**)
Lawless, Jerald F. A note on interval-censored lifetime data and the constant-sum condition of Oller, Gómez & Calle (2004). Comment on: "Interval censoring: model characterizations for the validity of the simplified likelihood" [Canad. J. Statist. 32 (2004), no. 3, 315–326; MR2101759 (2005j:62198)] by Ramon Oller, Guadalupe Gómez, and M. Luz Calle. (English and French summaries) **2005j:62199**
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Ma, Shuangge Semiparametric regression with current status data. (English summary) **2005k:62230**
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Nan, Bin Efficient estimation for case-cohort studies. (English and French summaries) **2005j:62197**
Nikulin, Mikhail S. *see* **Bagdonavičius, Vilijandas B. et al.**
Oller, Ramon (*with* Gómez, Guadalupe; Calle, M. Luz) Interval censoring: model characterizations for the validity of the simplified likelihood. (English and French summaries) **2005j:62198**
— *see also* **Lawless, Jerald F.**, 2005j:62199
Prorok, Philip C. *see* **Xu, Jian-Lun et al.**, 2005d:62159
Rahbar, M. H. (*with* Gardiner, J. C.) Nonparametric modeling of the mean survival time in a multi-factor design based on randomly right-censored data. (English summary)
Rizhov, A. Yu. Estimates for the distributions of components of a mixture based on censored data. (Ukrainian. Ukrainian summary) **2005i:62138**
Schaubel, Douglas E. (*with* Cai, Jianwen) Regression methods for gap time hazard functions of sequentially ordered multivariate failure time data. (English summary) **2005e:62134**
Shen, Pao-sheng Estimation of survival function subject to time-dependent covariates and left truncation. (English summary) **2005f:62152**
Shi, Peide (*with* Fung, Wing Kam) Estimation of covariate effects in Cox's regression models with frailties. (English summary) **2005b:62198**
Singh, J. R. Reliability estimation under measurement error for normal distribution. (English summary)
Slasor, Peter (*with* Laird, Nan M.) Categorical auxiliary data in the discrete time proportional hazards model. (*see* **2005a:62015**)
Sun, Liuquan *see* **Zhou, Xian**, 2005b:62199
Wang, Bing Xing The estimation of the constant stress accelerated life tests with nonconstant shape parameter under Weibull distribution. (Chinese. English and Chinese summaries) **2005a:62214**

Wang, Rong Hua[2] (*with* Fei, He Liang) Statistical analysis for the Birnbaum-Saunders fatigue life distribution under type-II bilateral censoring and multiply type-II censoring. (English summary) **2005g:62171**

Wendt, Heide (*with* Kahle, Waltraud) On parameter estimation for a position-dependent marking of a doubly stochastic Poisson process. (English summary) (*see* **2005d:62008**)

Wu, Hsien-Chung Fuzzy Bayesian estimation on lifetime data. (English summary)

Xu, Jian-Lun (*with* Fagerstrom, Richard M.; Prorok, Philip C.; Kramer, Barnett S.) Estimating the cumulative risk of a false-positive test in a repeated screening program. (English summary) **2005d:62159**

Yang, Yi *see* **Zheng, Ming[2] et al., 2005h:62271**

Zdorova-Cheminade, Olga *see* **Bagdonavičius, Vilijandas B. et al.**

Zheng, Ming[2] (*with* Li, Si Hua; Yang, Yi) Empirical likelihood for a class of functionals of survival distribution with censored data. (Chinese. English and Chinese summaries) **2005h:62271**

Zhou, Mai[1] Nonparametric Bayes estimator of survival functions for doubly/interval censored data. (English summary) **2005a:62215**

Zhou, Xian (*with* Sun, Liuquan) Additive hazards regression with missing censoring information. (English summary) **2005b:62199**

Items with secondary classifications in 62N02

Aalen, Odd O. (*with* Fosen, Johan; Weedon-Fekjær, Harald; Borgan, Ørnulf; Husebye, Einar) Dynamic analysis of multivariate failure time data. (English summary)

Abdel-Hamid, Alaa H. *see* **AL-Hussaini, Essam K.**

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AL-Hussaini, Essam K. (*with* Abdel-Hamid, Alaa H.) Bayesian estimation of the parameters, reliability and hazard rate functions of mixtures under accelerated life tests. (English summary)

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Balakrishnan, Narayanaswamy (*with* Bordes, Laurent) Non-parametric hazard rate estimation under progressive type-II censoring. **2005k:62227**

— *see also* **Kundu, Debasis et al., 2005e:62131** *and* **Ng, H. K. T. et al.**

Bar-Lev, Shaul K. Likelihood-based inference for the shape parameter of a two parameter Weibull distribution. (English summary)

Bekker, A. V. *see* **Mostert, P. J. et al.**

Bijwaard, Govert E. (*with* Ridder, Geert) Correcting for selective compliance in a re-employment bonus experiment. (English summary) **2005m:62008**

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BuHamra, Sana S. (*with* Al-Kandari, Noriah M.; Ahmed, S. E.) Inference concerning quantile for left truncated and right censored data. (English summary)

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Cai, Tianxi (*with* Cheng, Su-Chun) Semiparametric regression analysis for doubly censored data. (English summary) **2005b:62196**

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Chen, James J. Statistics in toxicology. (English summary) (*see* **2005c:62003**)

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Coolen, F. P. A. (*with* Yan, K. J.) Nonparametric predictive inference with right-censored data. (English summary)

Craiu, Radu V. (*with* Duchesne, Thierry) Using EM and data augmentation for the competing risks model. (*see* **2005m:62005**)

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Dauxois, Jean-Yves (*with* Guilloux, Agathe; Kirmani, Syed N. U. A.) Estimation de la fonction de survie sous biais de longueur pour des risques concurrents et proportionnels. (English and French summaries) [Estimation of the survival function under length-biased sampling for competing risks and proportional hazards] **2005a:62216**

Delafosse, Emmanuel (*with* Guillou, Armelle) Extreme quantiles estimation for actuarial applications. (English and French summaries)

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Duchateau, Luc (*with* Janssen, Paul) Penalized partial likelihood for frailties and smoothing splines in time to first insemination models for dairy cows. (English summary)

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Dupuy, Jean-François Nonparametric maximum likelihood estimation in the proportional hazards model with covariate measurement error. (English summary) **2005m:62071**

— (*with* Mesbah, Mounir) Estimation of the asymptotic variance of semiparametric maximum likelihood estimators in the Cox model with a missing time-dependent covariate. (English summary) **2005b:62152**

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Fang, Hong-Bin (*with* Li, Gang[3]; Sun, Jianguo) Maximum likelihood estimation in a semiparametric logistic/proportional-hazards mixture model. (English summary) **2005m:62072**

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— *see also* **Sun, Li Bin, 2005e:62133** *and* **Xu, Xiaoling, 2005i:62053**

Ferland, René (*with* Froda, Sorana; Lavigne, Jean) A simulation study of a minimum distance estimator for finite mixtures under censoring. (English summary) (*see* **2005m:62007**)

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— (*with* Vonta, Filia) Semiparametric transformation models for arbitrarily censored and truncated data. (English summary) **2005g:62176**

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— *see also* **Sinha, Debajyoti et al., (2005i:62004)**

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Lehmann, Axel On a degradation-failure model for repairable items. (English summary) (*see* **2005d:62008**)
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Levitin, Gregory (*with* Lisnianski, Anatoly; Ushakov, Igor) Reliability of multi-state systems: a historical overview. **2005e:62139**
Li, Guo Ying[1] *see* **Yu, Dan[1] et al., 2005e:62144**; **Wu, Qi Guang et al., 2005g:62178** *and* **Huang, Bao Sheng, 2005m:62187**
Li, Xiao Hu (*with* Chen, Jing) Aging properties of the residual life length of k-out-of-n systems with independent but non-identical components. (English summary) **2005c:62184**
— (*with* Zuo, Ming J.) Stochastic comparison of residual life and inactivity time at a random time. (English summary) **2005c:62185**
Li, Yi[8] (*with* Ryan, Louise M.) Survival analysis with heterogeneous covariate measurement error. (English summary) **2005h:62280**
Li, Yingfu *see* **Wang, Jiantian, 2005k:62238**
Li, Yulin Closure of NBU(2) class under the formation of parallel systems. (English summary) **2005a:62218**
Lim, Hee-Jeong *see* **Zhao, Xingqiu et al., 2005i:62146**
Lim, Jae-Hak (*with* Kim, Dae Kyung[2]; Park, Dong Ho) Testing the equality of NBU-ness at a specified age. (English summary)
— (*with* Shin, Sang Wook; Kim, Dae Kyung[2]; Park, Dong Ho) Bootstrap confidence intervals for steady-state availability. (English summary)
Lin, Danyu Y. *see* **Kulich, Michal, 2005f:62158**
Lin, Guo Hua (*with* Pearn, Wen Lea) Distributions of the estimated process capability index C_{pk}. (English summary) **2005c:62186**
Lin, Haiqun *see* **Zelterman, Daniel**, (**2005a:62015**)
Lisnianski, Anatoly *see* **Levitin, Gregory et al., 2005e:62139**
Liu, Heng Chang (*with* Zhou, Hao; Zhao, Bao Hua[2]; Qu, Yu Gui) Reliability of conformance tests based on mathematical statistics. (Chinese. English and Chinese summaries) **2005c:62187**
Liu, Hui-Rong *see* **Chou, Chao-Yu et al.**
Liu, Jian Bin *see* **Zhang, Wei Ming[1], 2005d:62165**
Liu, Lei (*with* Wolfe, Robert A.; Huang, Xuelin) Shared frailty models for recurrent events and a terminal event. (English summary)
Louzada-Neto, Francisco (*with* Andrade, Christiano Santos; Almeida, Fernanda R. Zanforlin) On the non-identifiability problem arising on the poly-Weibull model. (English summary)
Lu, Shou-En (*with* Wang, Mei-Cheng) Marginal analysis for clustered failure time data. (English summary)
Lu, Ying (*with* Zhao, Shoujun) Statistics used in quality control, quality assurance, and quality improvement in radiological studies. (*see* **2005c:62003**)
— (*with* Jin, Hua; Mi, Jie) On comparison of two classification methods with survival endpoints. **2005k:62233**
Lucas, James M. *see* **Saniga, Erwin M. et al.**, (**2005a:62017**)
Lynch, J. D. (*with* Padgett, William J.) Reliability models motivated by failure of brittle fibers and composites. (English summary) (*see* **2005a:62018**)
MacGibbon, Brenda *see* **Huber-Carol, Catherine, 2005d:62162**
MacKay, R. Jock *see* **Steiner, Stefan H.**, (**2005a:62017**)
Mahmoud, Mohamed Abdel Wahab (*with* Abdul Alim, N. A.) On testing exponentiality against NBARFR life distributions. (English summary) **2005d:62163**
Major, Pierre *see* **Cook, Richard J. et al.**, (**2005a:62015**)
Mallick, Madhuja (*with* Ravishanker, Nalini) Multivariate survival analysis with PVF frailty models. (English summary) (*see* **2005h:62008**)
Martinussen, Torben (*with* Pipper, Christian B.) Estimation in the positive stable shared frailty Cox proportional hazards model. (English summary)
Matsubara, Shin'ichiro *see* **Nishina, Ken**, (**2005a:62017**)
May, Susanne (*with* Hosmer, David W.) An added variable goodness-of-fit test for the Cox proportional hazards model. (English summary) **2005b:62208**
Melgaard, Henrik *see* **Thyregod, Poul et al.**, (**2005a:62017**) *and* (**2005a:62017**)
Mercier, Sophie (*with* Labeau, Pierre-Etienne) Optimal replacement policy for a series system with obsolescence. (English summary) **2005e:62140**
van der Merwe, Abraham Johannes (*with* Chikobvu, D.) Bayesian estimation of the process capability index C_{pk}. (English summary) **2005k:62234**
Merzbach, Ely *see* **Ivanoff, B. Gail, 2005b:62207**
Mi, Jie A general approach to the shape of failure rate and MRL functions. (English summary) **2005b:62209**
— *see also* **Cha, Ji Hwan et al., 2005e:62138** *and* **Lu, Ying et al., 2005k:62233**
Mierluş-Mazilu, Ion (*with* Trandafir, Romică; Demetriu, Sorin) Estimating the parameters of a fatigue model. (English summary) **2005h:62281**
Mikhalevich, K. V. *see* **Kuznetsov, N. Yu., 2005j:62201**
Misra, Neeraj *see* **Nanda, Asok K. et al., 2005a:62219**
Moger, Tron Anders (*with* Aalen, Odd O.) A distribution for multivariate frailty based on the compound Poisson distribution with random scale. (English summary)
Mogha, A. K. *see* **Gupta, Ashok Kumar et al.**
Mokgatlhe, Lucky *see* **Groenewald, Pieter C. N.**
Monteavaro Rodríguez, Martha *see* **González Debén, Adalberto**
Moodie, F. Zoe *see* **Prentice, Ross L. et al.**, (**2005j:62008**)
Mostert, P. J. (*with* Bekker, A. V.; Yadavalli, V. S. S.) A two-unit intermittently used cold standby system from a Bayesian viewpoint assuming a Dirichlet prior. (English summary)
Mukhopadhyay, Nitis (*with* Cicconetti, Greg) Estimating reliabilities following purely sequential sampling from exponential populations. (English summary) (*see* **2005h:62008**)
Muller, Keith E. *see* **Greven, Sonja et al.**
Murphy, Eamonn *see* **Prendergast, James**, (**2005a:62017**)
Muttlak, Hassen A. *see* **Abujiya, Mu'azu R., 2005k:62231**
Nadarajah, Saralees Reliability for some bivariate beta distributions.
Naess, Arvid The reliability of quadratic dynamic systems. (English summary) **2005c:62188**
Nair, Vijayan N. (*with* Escobar, Luis A.; Hamada, Michael S.) Design and analysis of experiments for reliability assessment and improvement. (English summary) (*see* **2005a:62018**)
Nam, Byung-Ho *see* **D'Agostino, Ralph B.**, (**2005a:62015**)
Nanda, Asok K. (*with* Singh, Harshinder; Misra, Neeraj; Paul, Prasanta) Letter to the editor: "Reliability properties of reversed residual lifetime" [Comm. Statist. Theory Methods **32** (2003), no. 10, 2031–2042; MR2002004 (2004h:62183)]. **2005a:62219**
Navarro, Jorge (*with* Hernandez, Pedro J.) How to obtain bathtub-shaped failure rate models from normal mixtures. (English summary) **2005k:62235**
Nieto-Barajas, Luis E. (*with* Walker, Stephen G.) Bayesian nonparametric survival analysis via Lévy driven Markov processes. (English summary) **2005i:62144**
Nikulin, Mikhail S. *see* **Bagdonavičius, Vilijandas B., 2005m:62185**; (**2005a:62015**) *and*

(2005d:62008)
Nishina, Ken (*with* Matsubara, Shin'ichiro) A Markov approach to the average run length of Cusum charts for an AR(1) process. (English summary) (*see* 2005a:62017)
Oakes, David (*with* Dasu, Tamraparni) Inference for the proportional mean residual life model. (English summary) (*see* 2005i:62004)
— On characterizing joint survivor functions by minima. (English summary) (*see* 2005j:62008)
Ohta, Hiroshi[1] (*with* Kusukawa, Etsuko) An application of confirmation sample control chart in the high-yield processes and its economic design. (English summary) (*see* 2005a:62017)
Okhrin, Yarema *see* **Schmid, Wolfgang P.**, 2005e:62142
Onar, Arzu (*with* Padgett, William J.) Cumulative damage approaches leading to inverse Gaussian accelerated test models. (*see* 2005a:62015)
Pacheco, António *see* **Cabral Morais, Manuel**, 2005b:62203
Padgett, William J. (*with* Tomlinson, Meredith A.) Inference from accelerated degradation and failure data based on Gaussian process models. (English summary)
— *see also* **Lynch, J. D.**, (2005a:62018) *and* **Onar, Arzu**, (2005a:62015)
Pal, Nabendu *see* **Arazyan, A. Y.**, 2005d:62160
Pandya, Mayuri (*with* Jani, P. N.) Bayesian estimation in a stress-strength change point model having a change in strength. (English summary)
Park, Dong Ho *see* **Lim, Jae-Hak et al.**
Park, Junoh (*with* Park, Sung Hyun) Estimation of the change point in the $\overline{X}$ and S control charts. (English summary)
Park, Sangun *see* **Zheng, Gang**[1]
Park, Sung Hyun *see* **Park, Junoh**
Patra, Kaushik (*with* Dey, Dipak K.; Ghosh, Samiran) Bayesian analysis of mixtures of improper survival distributions. (English summary) (*see* 2005h:62008)
Paul, Prasanta *see* **Nanda, Asok K. et al.**, 2005a:62219
Pearn, Wen Lea (*with* Chang, Yen-Chang; Wu, Chien-Wei) Distributional and inferential properties of the process loss indices. (English summary)
— (*with* Wu, Chien-Wei) A Bayesian approach for assessing process precision based on multiple samples. (English summary)
— *see also* **Lin, Guo Hua**, 2005c:62186
Peña, Edsel A. (*with* Hollander, Myles) Models for recurrent events in reliability and survival analysis. (English summary) 2005f:62159
Peng, Yingwei (*with* Dear, Keith B. G.) An increasing hazard cure model. (*see* 2005a:62015)
Philippe, Anne *see* **Bon, Jean-Louis**, 2005b:62202
Pievatolo, Antonio (*with* Ruggeri, Fabrizio) Bayesian reliability analysis of complex repairable systems. (English summary)
Pipper, Christian B. *see* **Martinussen, Torben**
Pooi, A. H. *see* **Tan, Y. F.**
Prendergast, James (*with* Murphy, Eamonn) Building in reliability. Is statistical process control statistical reliability control? (English summary) (*see* 2005a:62017)
Prentice, Ross L. (*with* Moodie, F. Zoe; Wu, Jian Rong[1]) Nonparametric estimation of the bivariate survivor function. (English summary) (*see* 2005j:62008)
Provost, Serge B. *see* **Khan, Hafiz M. R. et al.**
Qu, Yu Gui *see* **Liu, Heng Chang et al.**, 2005c:62187
Rahim, M. A. *see* **Costa, A. F. B.**
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Ravishanker, Nalini *see* **Mallick, Madhuja**, (2005h:62008)
Rehman, Sirajur (*with* Ullah, Kamal; Kumar, Vinit) Bayesian availability analysis of a k-out-of-m system. (English summary)
Reynolds, Marion R., Jr. *see* **Stoumbos, Zachary G.**, (2005a:62017)
Roohi *see* **Alam, S. N.**
Roy, Dilip Characterization of a bivariate Weibull distribution based on arithmetic, geometric and harmonic means of failure rates. (English summary) 2005e:62141
— Bivariate models from univariate life distributions: a characterization cum modeling approach. (English summary) 2005j:62202
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Ruiz Gómez, José María *see* **Franco, Manuel et al.**, 2005f:62157
Ryan, Louise M. *see* **Li, Yi**[8], 2005h:62280
Salicrú, Miquel (*with* Vaamonde, Antonio) Confidence intervals for capability indices. (English summary)
Samaniego, Francisco J. *see* **Boland, Philip J. et al.**, 2005e:62137 *and* (2005a:62018)
Saniga, Erwin M. (*with* Davis, Darwin J.; Lucas, James M.) Statistical design of attribute charts for monitoring and continuous improvement when count levels are low. (English summary) (*see* 2005a:62017)
Sans, Wolfgang *see* **Stübner, Dmitri et al.**
Sarikavanij, Sukuman (*with* Tiensuwan, Montip; Sinha, Bimal K.) Estimation of reliability based on exponential distribution and ranked set sample. (English summary) 2005a:62220
Satten, Glen A. (*with* Datta, Somnath) Marginal analyses of multistage data. 2005c:62189
Sauer, Cornelia (*with* Daduna, Hans) Availability formulas and performance measures for separable degradable networks. (English summary) 2005b:62210
Scheike, Thomas H. Time-varying effects in survival analysis. (*see* 2005a:62015)
Schmid, Wolfgang P. (*with* Okhrin, Yarema) Tail behaviour of a general family of control charts. (English summary) 2005e:62142
— (*with* Tzotchev, Dobromir) Statistical surveillance of the parameters of a one-factor Cox-Ingersoll-Ross model. (English summary) 2005c:62190
— *see also* **Bodnar, Olha**
Sen, Kanwar (*with* Srivastava, P. W.) Testing exponentiality against new better than used of specified age with randomly right censored data. (English summary) 2005b:62211
Sen, Pranab Kumar[1] *see* **Kesler, Karen L.**, (2005a:62015)
Sen, Surath *see* **Stübner, Dmitri et al.**
Sethuraman, Jayaram *see* **Hollander, Myles**, (2005a:62015)
Shaw, J. E. H. *see* **Hemming, K.**
Shi, Chun Hua (*with* Yin, Fan Cheng) Uniformly minimal variance unbiased estimate of reliability for one-unit and series systems on GAMMA distribution. (Chinese. English and Chinese summaries)
Shin, Sang Wook *see* **Lim, Jae-Hak et al.**
Shore, Haim *see* **Ladany, Shaul P.**, (2005a:62017)
Shu, M. H. (*with* Hsu, B. M.) Sample size determination for estimating process precision and process loss based on multiple samples with designated accuracy ratio. (English summary)
Siannis, Fotios Applications of a parametric model for informative censoring. (English summary)
Singh, Harshinder *see* **Nanda, Asok K. et al.**, 2005a:62219
Singh, Pritee *see* **Singh, Umesh et al.**
Singh, Rajesh[2] *see* **Singh, Umesh et al.**
Singh, S. B. *see* **Gupta, P. P. et al.**
Singh, Umesh (*with* Singh, Rajesh[2]; Singh, Pritee) Reliability estimation for exponential distribution. (English summary)
Sinha, Bimal K. *see* **Sarikavanij, Sukuman et al.**, 2005a:62220
Sinha, Debajyoti *see* **Chen, Ming-Hui et al.**
Soofi, Ehsan S. *see* **Ebrahimi, Nader**, (2005a:62018)
Sparks, Ross What has data mining got to do with statistical process monitoring? A case study. (English summary) (*see* 2005a:62017)
Spizzichino, Fabio Aspects of multivariate aging in exchangeable frailty models. (English summary) (*see* 2005d:62008)
— *see also* **Bassan, Bruno**, 2005b:62201
Srinivasa Rao, G. *see* **Kantam, R. R. L.**
Srivastava, P. W. *see* **Sen, Kanwar**, 2005b:62211
Steiner, Stefan H. (*with* MacKay, R. Jock) Effective monitoring of processes with parts per million defective. A hard problem! (English summary) (*see* 2005a:62017)
Stoumbos, Zachary G. (*with* Reynolds, Marion R., Jr.) The robustness and performance of CUSUM control charts based on the double-exponential and normal distributions. (English summary) (*see* 2005a:62017)
Stoyanov, Jordan (*with* Al-Sadi, M. H. M.) Properties of classes of life distribution based on the conditional variance. (English summary) 2005k:62236
Stübner, Dmitri (*with* Sans, Wolfgang; Zhai, Xiaomin; Sen, Surath; von Collani, Elart) Measurement procedures for improving the variability function. (English summary)
Subramani, Kandasamy Minimum risk acceptance sampling plans: a review. (English summary)
Sun, Jianguo (*with* Zhao, Qiang[2]; Zhao, Xingqiu) Generalized log-rank tests for interval-censored failure time data. (English summary) 2005k:62237
— *see also* **Zhao, Xingqiu et al.**, 2005i:62146
Suresh, Rajagopalan Padmanabha On the inter-relationships between some classes of life distributions. (English summary) 2005g:62177
Swift, Andrew W. Methods for assessing network reliability. (English summary) (*see* 2005a:62018)
Sztrik, János *see* **Almási, B.**
Tan, Guo-zhen (*with* Xia, Xiang-fu; Gao, Wen[1]) Reliability theory model and expected life shortest path in stochastic and time-dependent networks. (English summary) 2005i:62145
Tan, Y. F. (*with* Pooi, A. H.) Run length distribution of two-sided CUSUM procedures for continuous random variables. (English summary)
Tanaka, Yoko (*with* Rao, Pejaver Vishwamber) A proportional hazards model for informatively censored survival times. (English summary)
Tang, Shengdao (*with* Wang, Fengquan) Reliability analysis for a repairable parallel system with time-varying failure rates. (English summary)
Tang, Shu Ming (*with* Wang, Fei Yue) Recent development in the research of process capability indices. (Chinese. English and Chinese summaries) 2005e:62143
Tao, Hong (*with* Ye, Ci Nan) Estimation of structural reliability for exponential strength and GBVE distributed stress. (Chinese. English and Chinese summaries) 2005d:62164
Thyregod, Poul (*with* Melgaard, Henrik; Iwersen, Jørgen) On monitoring processes and assessing process capability under a hierarchical model. I. (English summary) (*see* 2005a:62017)
— (*with* Iwersen, Jørgen; Melgaard, Henrik) On monitoring processes and assessing process capability under a hierarchical model. II. (English summary) (*see* 2005a:62017)
Tiensuwan, Montip *see* **Sarikavanij, Sukuman et al.**, 2005a:62220
Tomlinson, Meredith A. *see* **Padgett, William J.**
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Tzotchev, Dobromir *see* **Schmid, Wolfgang P.**, 2005c:62190
Ullah, Kamal *see* **Rehman, Sirajur et al.**
Ushakov, Igor *see* **Levitin, Gregory et al.**, 2005e:62139
Utkin, Lev V. An uncertainty model of structural reliability with imprecise parameters of probability distributions. (English summary)
Vaamonde, Antonio *see* **Salicrú, Miquel**
Vestrup, Eric M. *see* **Boland, Philip J. et al.**, 2005e:62137
Viertl, Reinhard Accelerated life testing, fuzzy information and generalized probability. (English summary) (*see* 2005d:62008)
Volf, Petr An application of nonparametric Cox regression model in reliability analysis: a case study. (English summary)
Vonta, Filia *see* **Huber-Carol, Catherine**, 2005g:62176
Walker, Stephen G. *see* **Nieto-Barajas, Luis E.**, 2005i:62144
Wang, Fei Yue *see* **Tang, Shu Ming**, 2005e:62143
Wang, Fengquan *see* **Tang, Shengdao**
Wang, Jiantian (*with* Li, Yingfu) Dependency measures under bivariate homogeneous shock models. (English summary) 2005k:62238
Wang, Lin Shu On new classes of lifetime distributions. (Chinese. English and Chinese summaries) 2005m:62189
Wang, Mei-Cheng *see* **Huang, Chiung-Yu**, 2005g:62175 *and* **Lu, Shou-En**

Wang, Rong Hua[2] (*with* Fei, He Liang) Conditions for the coincidence of the TFR, TRV and CE models. (English summary) **2005a:62221**
Wang, Wei Proportional hazards regression models with unknown link function and time-dependent covariates. (English summary)
Weedon-Fekjær, Harald *see* **Aalen, Odd O. et al.**
Wei, Xue Lian (*with* Chen, Jia Ding) An improvement for the fixed-duration test plans in MIL-HDBK-781 and IEC61124 (2002) draft. (Chinese. English and Chinese summaries) **2005m:62190**
Whitaker, H. J. (*with* Farrington, C. P.) Infections with varying contact rates: applications to varicella. (English summary)
Whitmore, George A. *see* **Lee, Mei-Ling Ting**, (**2005a:62015**)
Wieand, H. Sam *see* **Dignam, James et al.**, (**2005a:62015**)
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Wolfe, Robert A. *see* **Liu, Lei et al.**
Wondmagegnehu, Eshetu T. On the behavior and shape of mixture failure rates from a family of IFR Weibull distributions. (English summary) **2005b:62212**
Wu, Chien-Wei *see* **Pearn, Wen Lea et al.**
Wu, He Cheng (*with* Zheng, Chui Yong) Study on stochastic input-output models. (Chinese. English and Chinese summaries)
Wu, Hong-Dar Isaac Effect of ignoring heterogeneity in hazards regression. (English summary) (*see* **2005d:62008**)
Wu, Jian Rong[1] *see* **Prentice, Ross L. et al.**, (**2005j:62008**)
Wu, Jing-Tao *see* **Klein, John P.**, (**2005a:62015**)
Wu, Qi Guang (*with* Li, Guo Ying[1]; Zhao, Yong Hui) A new family of a priori distributions for exponential reliability growth models. (Chinese. English and Chinese summaries) **2005g:62178**
Wu, Zheng Gang *see* **Zhu, Hui Ming et al.**
Xia, Mao Hui *see* **Jin, Yan Sheng et al.**
Xia, Xiang-fu *see* **Tan, Guo-zhen et al.**, **2005i:62145**
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Yan, Xia *see* **Yu, Dan[1] et al.**, **2005e:62144**
Yang, Jingrong *see* **Chen, Ying Qing et al.**, (**2005a:62015**)
Yashin, Anatoli I. Semiparametric models in the studies of aging and longevity. (English summary) (*see* **2005d:62008**)
Ye, Ci Nan *see* **Tao, Hong**, **2005d:62164**
Yin, Fan Cheng *see* **Shi, Chun Hua**
Yu, Dan[1] (*with* Yan, Xia; Li, Guo Ying[1]) The fiducial inference for repaired as old Weibull distributed systems. (Chinese. English and Chinese summaries) **2005e:62144**
— *see also* **Guo, Kui**, **2005i:62143**
Zacks, Shelemyahu Adaptive methods under prediction models for software reliability. (English summary) **2005f:62160**
Zelterman, Daniel (*with* Lin, Haiqun) Diagnostics for the accelerated life time model of survival data. (*see* **2005a:62015**)
Zhai, Xiaomin *see* **Stübner, Dmitri et al.**
Zhang, Li Yuan Characterization of the degree of aging properties by the total time on test transform. (Chinese. English and Chinese summaries)
Zhang, Lingyun (*with* Bebbington, M. S.; Govindaraju, Kondaswamy; Lai, C. D.) Composite EWMA control charts. (English summary)
Zhang, Min Yue (*with* Zheng, Ping) Study of residual life function in reliability theory. (Chinese. English and Chinese summaries)
— (*with* Zheng, Ping) Studies of residual life distribution classes and characters of residual life functions. (Chinese. English and Chinese summaries)
Zhang, Nien Fan Statistical process monitoring for autocorrelated data. (English summary) (*see* **2005a:62014**)
Zhang, Wei Ming[1] (*with* Liu, Jian Bin) Combined median and range charts with variable sample sizes and sampling intervals. (Chinese. English and Chinese summaries) **2005d:62165**
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Zhao, Shoujun *see* **Lu, Ying**, (**2005c:62003**)
Zhao, Xingqiu (*with* Lim, Hee-Jeong; Sun, Jianguo) Estimating equation approach for regression analysis of failure time data in the presence of interval-censoring. (English summary) **2005i:62146**
— *see also* **Sun, Jianguo et al.**, **2005k:62237**
Zhao, Yong Hui *see* **Wu, Qi Guang et al.**, **2005g:62178**
Zheng, Chui Yong *see* **Wu, He Cheng**
Zheng, Gang[1] (*with* Park, Sangun) A note on time savings in censored life testing. (English summary)
Zheng, Ming[2] (*with* He, Qi Xiang) An estimator for the survival function and its asymptotic properties for continuous processes under censored data. (Chinese. English and Chinese summaries) **2005e:62145**
Zheng, Ping *see* **Zhang, Min Yue**
Zhou, Hao *see* **Liu, Heng Chang et al.**, **2005c:62187**
Zhu, Hui Ming (*with* Han, Yu Qi; Wu, Zheng Gang) Bayesian evaluation model of process capability indices based on random parameters. (Chinese. English and Chinese summaries)
Zuo, Ming J. *see* **Li, Xiao Hu**, **2005c:62185**

Items with secondary classifications in 62N05

Abdel-Hamid, Alaa H. *see* **AL-Hussaini, Essam K.**
Aguirre-Hernández, R. (*with* Farewell, Vern T.) Appraisal of models for the study of disease progression in psoriatic arthritis. (*see* **2005a:62015**)
Ahmad, Ibrahim A. *see* **Kayid, Mohamed**, **2005h:60054**
Ahmed, Hadi (*with* Kayid, Mohamed) Preservation properties for the Laplace transform ordering of residual lives. (English summary) **2005h:60051**
Ahmed, S. E. Assessing the process capability index for non-normal processes. (English summary)
Aitkin, Murray (*with* Francis, Brian; Hinde, John) ★ Statistical modelling in GLIM 4.
Akiba, Tomoaki *see* **Yamamoto, Hisashi**, **2005i:90016**
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Auer, Corinna (*with* Erdbrügge, Martina; Göbel, Roland) Comparison of multivariate methods for robust parameter design in sheet metal spinning. (English summary)
Awad, Lucile *see* **Mesbah, Mounir et al.**, (**2005a:62015**)
Azaron, Amir (*with* Katagiri, Hideki; Sakawa, Masatoshi; Modarres, Mohammad) Reliability function of a class of time-dependent systems with standby redundancy. (English summary) **2005h:90027**
Baatenburg de Jong, R. J. *see* **Goeman, J. J. et al.**, **2005b:62218**
Bagdonavičius, Vilijandas B. (*with* Zdorova-Cheminade, Olga; Nikulin, Mikhail S.) Statistical planning and inference in accelerated life testing using the CHSS model. (English summary)
— (*with* Levuliene, Ruta J.; Nikulin, Mikhail S.; Zdorova-Cheminade, Olga) Tests for equality of survival distributions against non-location alternatives. (English summary)
Bajorunaite, Ruta *see* **Klein, John P.**, (**2005a:62015**)
Balakrishnan, Narayanaswamy *see* **Chandrasekar, B. et al.**, **2005h:62069**
(Barlow, Richard E.) *see* **Mathematical reliability: an expository perspective**, **2005a:62018**
Bazovsky, Igor ★ Reliability theory and practice. **2005g:62002**
Beaver, Robert J. *see* **Arnold, Barry C.**, **2005b:62029**
Beck, J. L. *see* **Ching, J. et al.**, **2005h:93155**
Belzunce, Félix (*with* Shaked, Moshe) Failure profiles of coherent systems. (English summary) **2005e:90023**
— (*with* Mercader, José-Angel; Ruiz Gómez, José Maria) Stochastic comparisons of generalized order statistics. (English summary) **2005i:60026**
Berg, Anne *see* **Ebrahimi, Nader et al.**, (**2005a:62015**)
Bhattacharjee, Arnab Estimation in hazard regression models under ordered departures from proportionality. (English summary)
Bhattacharyya, Mouchumi (*with* Klein, John P.) A random effects model for multistate survival analysis with application to bone marrow transplants. (English summary)
Block, Henry W. (*with* Savits, Thomas H.) The shape of failure rate mixtures. (English summary) (*see* **2005a:62018**)
Bolfarine, Heleno *see* **Tojeiro, Cynthia A. V. et al.**
Boussemart, M. (*with* Limnios, Nikolaos) Markov decision processes with asymptotic average failure rate constraint. (English summary) **2005e:90150**
Brown, Patrick E. (*with* Diggle, Peter J.; Henderson, Robin) A model-based approach to quality control of paper production. (English summary)
Burke, Murray D. Testing regression models: a strong martingale approach. (English summary) **2005i:62072**
Cai, Jianwen (*with* Kim, Jinheum) Nonparametric quantile estimation with correlated failure time data. (English summary) **2005a:62084**
— *see also* **Yin, Guosheng**
Cai, Jun *see* **Willmot, Gordon E. et al.**, **2005m:62040**
Carreras, Benjamin A. *see* **Dobson, Ian et al.**
del Castillo, E. *see* **Colosimo, B. M. et al.**
Ceci, Claudia (*with* Mazliak, Laurent) Optimal design in nonparametric life testing. (English summary) **2005h:62104**
Cha, Ji Hwan (*with* Lee, Sangyeol; Mi, Jie) Bounding the optimal burn-in time for a system with two types of failure. (English summary) **2005g:90031**
Chandrasekar, B. (*with* Childs, Aaron; Balakrishnan, Narayanaswamy) Exact likelihood inference for the exponential distribution under generalized type-I and type-II hybrid censoring. (English summary) **2005h:62069**
Chen, Chung-Ho Determining the optimum process mean of a one-sided specification limit with the linear quality loss function of product. (English summary)
Chen, Jia Ding (*with* Li, Ji) Lower confidence limits for structural reliability. (Chinese. English and Chinese summaries) **2005h:62095**
Chen, Kuen-Suan *see* **Pearn, Wen Lea et al.**
Chen, Ming-Hui *see* **Sinha, Debajyoti et al.**, (**2005i:62004**)
Chien, Yu-Hung *see* **Sheu, Shey-Huei**, **2005g:90030**
Childs, Aaron *see* **Chandrasekar, B. et al.**, **2005h:62069**
Ching, J. (*with* Au, S. K.; Beck, J. L.) Reliability estimation for dynamical systems subject to stochastic excitation using subset simulation with splitting. (English summary) **2005h:93155**
von Collani, Elart *see* **Solojentsev, Evgueni**, (**2005a:62017**)
Colosimo, B. M. (*with* Pan, Rong; del Castillo, E.) A sequential Markov chain Monte Carlo approach to set-up adjustment of a process over a set of lots. (English summary)
Cook, Thomas D. (*with* Kosorok, Michael R.) Analysis of time-to-event data with incomplete event adjudication. (English summary) **2005h:62270**
Craiu, Mariana Bayes estimators for a multivariate survival model. (English summary) **2005h:62022**
Crowley, John J. *see* **Pauler, Donna K. et al.**, (**2005a:62015**)
Crown, John S. *see* **Reineke, David M.**
Cui, Lirong (*with* Xie, Min[1]) On a generalized k-out-of-n system and its reliability. (English summary) **2005k:90019**
Dahan, Merav (*with* Frostig, Esther; Langberg, Naftali A.) Insurance contracts portfolios with heterogenous parametric life distributions. (English summary) **2005i:62147**
Dedkov, V. K. ★ Обратная задача теории надежности. (Russian) [The inverse problem in reliability theory]
Demetriu, Sorin *see* **Trandafir, Romică et al.**
Dharmadhikari, A. D. (*with* Rahman, Md. Monsur) A model for step-stress accelerated life testing. (English summary) **2005b:90031**

Diggle, Peter J. *see* **Brown, Patrick E. et al.**
Dimitrov, Boyan N. (*with* Rykov, Vladimir V.) On reliability of hierarchical systems with gradual failures. **2005e:90024**
Ding, Steven Xianchun *see* **Zhong, Maiying et al., 2005e:94313**
Dobson, Annette J. ★ An introduction to generalized linear models. **2005a:62001**
Dobson, Ian (*with* Carreras, Benjamin A.; Newman, David E.) A loading-dependent model of probabilistic cascading failure. (English summary)
Dohi, T. (*with* Kaio, N.; Osaki, S.) Cost-effective analysis of optimal order-replacement policies. (English summary) **2005i:60176**
— *see also* **Giri, Bibhas Chandra et al.**
Dohmen, Klaus ★ Improved Bonferroni inequalities via abstract tubes. **2005f:06001**
Drekic, Steve *see* **Willmot, Gordon E. et al., 2005m:62040**
Duarte, Belmiro *see* **Zempléni, András et al.**
Dupuy, Jean-François (*with* Mesbah, Mounir) Estimation of the asymptotic variance of semiparametric maximum likelihood estimators in the Cox model with a missing time-dependent covariate. (English summary) **2005b:62152**
— *see also* **Mesbah, Mounir et al., (2005a:62015)**
Ebrahimi, Nader (*with* Zhang, Xu[3]; Berg, Anne; Shinnar, Shlomo) Frailty model and its application to seizure data. (*see* **2005a:62015**)
El-Gohary, Awad I. (*with* Sarhan, Ammar M.) Estimations of the parameters in a three non-independent component series system subjected to sources of shocks. (English summary) **2005h:62091**
El-Haik, Basem Said ★ Axiomatic quality. **2005m:90026**
Erdbrügge, Martina *see* **Auer, Corinna et al.**
Farewell, Vern T. *see* **Aguirre-Hernández, R., (2005a:62015)**
Faulkner, James R. *see* **Pauler, Donna K. et al., (2005a:62015)**
Fei, He Liang *see* **Xu, Xiaoling, 2005i:62053**
Figueiredo, Fernanda (*with* Gomes, M. Ivette) The total median in statistical quality control. (English summary)
Fine, Jason P. (*with* Yan, Jun; Kosorok, Michael R.) Temporal process regression. (English summary) **2005d:62054**
Francis, Brian *see* **Aitkin, Murray et al.**
Frostig, Esther *see* **Dahan, Merav et al., 2005i:62147**
Galea Rojas, Manuel (*with* Leiva-Sánchez, Víctor; Paula, Gilberto A.) Influence diagnostics in log-Birnbaum-Saunders regression models. (English summary)
Gangnon, Ronald E. (*with* Kosorok, Michael R.) Sample-size formula for clustered survival data using weighted log-rank statistics. (English summary) **2005b:62134**
Gao, Ming Mei (*with* Zhao, Ming Qing; Li, Shu Shan) Some recursive formulas of a discrete time risk model. (Chinese. English and Chinese summaries)
Gåsemyr, Jørund (*with* Natvig, Bent; Nygård, Cecilie Sjuls) An application of adaptive independent chain Metropolis-Hastings algorithms in Bayesian hazard rate estimation. (English summary) **2005f:65015**
van de Geer, Sara A. *see* **Goeman, J. J. et al., 2005b:62218**
Geffray, Ségolen (*with* Guilloux, Agathe) Estimation dans un modèle de Koziol-Green généralisé. (English and French summaries) [Estimation in a generalized Koziol-Green model]
Gerchak, Yigal *see* **Grosfeld-Nir, Abraham, 2005a:90048**
Gerville-Reache, Léo An example of optimal design in accelerated experiments. (English summary) (*see* **2005d:62008**)
Giri, Bibhas Chandra (*with* Yun, W. Y.; Dohi, T.) Optimal design of unreliable production-inventory systems with variable production rate. (English summary)
Glidden, David V. *see* **Vittinghoff, Eric et al.**
Göbel, Roland *see* **Auer, Corinna et al.**
Goeman, J. J. (*with* Le Cessie, S.; Baatenburg de Jong, R. J.; van de Geer, Sara A.) Predicting survival using disease history: a model combining relative survival and frailty. (English summary) **2005b:62218**
Gomes, M. Ivette *see* **Figueiredo, Fernanda**
Gopal, Govindasamy *see* **Kumar, R. Suresh et al.**
Grosfeld-Nir, Abraham (*with* Gerchak, Yigal) Multiple lotsizing in production to order with random yields: review of recent advances. (English summary) **2005a:90048**
Gu, Chong Model diagnostics for smoothing spline ANOVA models. (English and French summaries)
Guilloux, Agathe *see* **Geffray, Ségolen**
Gupta, Rakesh[1] (*with* Varshney, Gaurav) Reliability analysis of gas leakage detection system in an industrial workshop with the aid of Boolean function technique. (English summary)
Gupta, Ramesh C. (*with* Kirmani, Syed N. U. A.) Some characterization of distributions by functions of failure rate and mean residual life. (English summary) **2005m:62029**
— (*with* L'vin, S. Ya.) Monotonicity of failure rate and mean residual life function of a gamma-type model. (English summary)
Hajeeh, Mohammed Analysis of a repairable system subjected to multiple modes of failure. (English summary)
Hamada, Michael S. (*with* Johnson, Valen; Moore, Leslie M.; Wendelberger, Joanne) Bayesian prediction intervals and their relationship to tolerance intervals. (English summary)
— *see also* **Wilson, Alyson G. et al., (2005a:62018)**
Hamedani, G. G. Characterizations of univariate continuous distributions based on hazard function. (English summary) **2005i:62037**
Hardin, Johanna *see* **Pauler, Donna K. et al., (2005a:62015)**
Hartman, Joseph C. Multiple asset replacement analysis under variable utilization and stochastic demand. (English summary) **2005j:90017**
Hartmann, O. *see* **Ziegler, Andreas et al., (2005b:62008)**
He, Shu Yuan (*with* Wong, Heung) Central limit theorem of linear regression model under right censorship. (English summary) **2005d:62056**
He, Wenqing (*with* Lawless, Jerald F.) Bivariate location-scale models for regression analysis, with applications to lifetime data. (English summary)
Heller, Glenn (*with* Venkatraman, E. S.) A nonparametric test to compare survival distributions with covariate adjustment. (English summary) **2005c:62079**
Henderson, Robin *see* **Brown, Patrick E. et al.**
Heutte, Natacha *see* **Mesbah, Mounir et al., (2005a:62015)**
Higashiyama, Y. A method for exact reliability of consecutive 2-out-of-(r, r)-from-(n, n):F systems. (English summary) **2005a:90045**
Hinde, John *see* **Aitkin, Murray et al.**
Ho, Linda Lee Estimating structural reliability in the presence of covariates via Bayesian methods. (English summary)
Hoàng, Thu M. (*with* Parsons, Van L.) Breast cancer prognosis using survival forests. (English summary) (*see* **2005d:62008**)
Hofmann, Glenn Comparing the Fisher information in record data and random observations. (English summary) **2005h:62019**
Honda, Toshio Nonparametric regression with current status data. (English summary) **2005e:62062**
Höpfner, L. *see* **Radespiel-Tröger, M. et al., (2005b:62008)**
Hosmer, David W. *see* **May, Susanne**
van Houwelingen, J. C. *see* **Wintrebert, Claire M. A. et al.**
Hryniewicz, Olgierd User-preferred solutions of fuzzy optimization problems—an application in choosing user-preferred inspection intervals. (English summary) **2005b:90171**
Ibrahim, Joseph G. *see* **Sinha, Debajyoti et al., (2005i:62004)**
Iftikhar-ud-Din *see* **Jan, Bahrawar et al.**
Iglewicz, Boris *see* **Jiang, Qi et al.**
Iqbal, Mohammad[2] *see* **Jan, Bahrawar et al.**
Jain, Madhu (*with* Priya, Kriti) Software reliability issues under operational and testing constraints. (English summary)
Jan, Bahrawar (*with* Shah, S. Waqar Ali; Iqbal, Mohammad[2]; Iftikhar-ud-Din) Weighted score test for comparing the survival distribution in case of heavy censoring. (English summary)
Jeeva, M. (*with* Rajagopal, Rajalakshmi; William, Martin L.; Yadavalli, V. S. S.) Expected time for attainment threshold level—a shock model approach. (English summary) **2005d:62171**
Jiang, Qi (*with* Snapinn, Steven; Iglewicz, Boris) Calculation of sample size in survival trials: the impact of informative noncompliance. (English summary)
Johnson, Valen *see* **Hamada, Michael S. et al.**
Juang, Muh-Guey (*with* Anderson, Gary T.) A Bayesian method on adaptive preventive maintenance problem. (English summary) **2005i:90013**
Kabaila, Paul (*with* Lloyd, Chris J.) Buehler confidence limits and nesting. (English summary) **2005c:62051**
Kaio, N. *see* **Dohi, T. et al., 2005i:60176**
Katagiri, Hideki *see* **Azaron, Amir et al., 2005h:90027**
Kayid, Mohamed (*with* Ahmad, Ibrahim A.) On the mean inactivity time ordering with reliability applications. (English summary) **2005h:60054**
— *see also* **Ahmed, Hadi, 2005h:60051**
Keiding, Niels *see* **Rosthøj, Susanne**
Kemp, Adrienne W. Classes of discrete lifetime distributions. (English summary)
Khaledi, Baha-Eldin (*with* Kochar, Subhash C.) Ordering convolutions of gamma random variables. (English summary) **2005i:60033**
Kim, Jinheum *see* **Cai, Jianwen, 2005a:62084**
Kim, Kyungmee O. (*with* Kuo, Way) A unified model incorporating yield, burn-in, and reliability. (English summary) **2005e:90026**
Kim, Song-Kyoo Design of stochastic hitless-prediction router by using the first exceed level theory. (English summary)
Kim, Yang-jin *see* **Sun, Liuquan et al.**
Kirmani, Syed N. U. A. *see* **Gupta, Ramesh C., 2005m:62029**
Klein, John P. (*with* Bajorunaite, Ruta) Inference for competing risks. (*see* **2005a:62015**)
— *see also* **Bhattacharyya, Mouchumi**
Knoth, Sven (*with* Schmid, Wolfgang P.) Control charts for time series: a review. (English summary) (*see* **2005a:62017**)
Kochar, Subhash C. *see* **Khaledi, Baha-Eldin, 2005i:60033**
König, I. R. *see* **Ziegler, Andreas et al., (2005b:62008)**
Kosorok, Michael R. *see* **Gangnon, Ronald E., 2005b:62134; Fine, Jason P. et al., 2005d:62054** *and* **Cook, Thomas D., 2005h:62270**
Kudo, Kazuki (*with* Ohta, Hiroshi[1]; Kusukawa, Etsuko) Economic design of a dynamic $CCC - r$ chart for high-yield processes. (English summary)
Kumar, R. Suresh (*with* Gopal, Govindasamy; Sathyamoorthi, R.) On the expected time to recruitment in a two grade organisation when the thresholds are Erlang 2. (English summary)
Kuo, Way (*with* Rajendra Prasad, V.) System reliability optimization: an overview. (English summary) (*see* **2005a:62018**)
— *see also* **Kim, Kyungmee O., 2005e:90026**
Kusukawa, Etsuko *see* **Kudo, Kazuki et al.**
Labou, M. First-passage probabilities for randomly excited mechanical systems by a selective Monte Carlo simulation method. (English and Ukrainian summaries)
Lam, James *see* **Zhong, Maiying et al., 2005e:94313**
Lam, K. K. (*with* Rahim, M. A.) Joint determination of economic design of $\overline{X}$-control charts, economic production quantity, and production run length for a deteriorating production system. (*see* **2005a:62017**)
Lam, Kin (*with* Lee, Yau Wing) Merits of modelling multivariate survival data using random effects proportional odds model. (English summary)
Langberg, Naftali A. *see* **Dahan, Merav et al., 2005i:62147**
Lawless, Jerald F. *see* **He, Wenqing**
LeBlanc, Michael *see* **Pauler, Donna K. et al., (2005a:62015)**
Le Cessie, S. *see* **Goeman, J. J. et al., 2005b:62218**
Lee, Sangyeol *see* **Cha, Ji Hwan et al., 2005g:90031**
Lee, Yau Wing *see* **Lam, Kin**
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Lemeshow, Stanley *see* **Suciu, Gabriel P. et al., 2005e:62135**
Lenz, Hans-Joachim Trouble-shooting by graphical models. (English summary) (*see* **2005a:62017**)
— *see also* **Frontiers in statistical quality control 7, 2005a:62017**
Levitin, Gregory Reliability of linear multistate multiple sliding window systems. (English summary) **2005k:90021**

Levuliene, Ruta J. *see* **Bagdonavičius, Vilijandas B. et al.**
Li, Bo-de (*with* Li, Xiao Hu) New partial orderings of life distributions with respect to the residual life function. (English and Chinese summaries)
Li, Haijun (*with* Xu, Susan H.) On the coordinated random group replacement policy in multivariate repairable systems. (English summary) **2005c:90023**
Li, Hongzhe *see* **Sun, Wanlong**
Li, Ji *see* **Chen, Jia Ding, 2005h:62095**
Li, Jingshan (*with* Meerkov, Semyon M.) On the coefficients of variation of uptime and downtime in manufacturing equipment.
Li, Shu Shan *see* **Gao, Ming Mei et al.**
Li, Xiao Hu (*with* Zuo, Ming J.) Preservation of stochastic orders for random minima and maxima, with applications. (English summary) **2005b:60044**
— (*with* Yam, Richard C. M.) Reversed preservation properties of some negative aging conceptions and stochastic orders. (English summary) **2005k:60064**
— *see also* **Li, Bo-de**
Liang, Ta Chen Empirical Bayes estimation of residual survival function at age t. (English summary) **2005h:62029**
Limnios, Nikolaos *see* **Boussemart, M., 2005e:90150**
Lin, Danyu Y. Survival analysis. (*see* **2005c:62003**)
Lin, Pi Chuan *see* **Pearn, Wen Lea et al.**
Liu, Regina Y. (*with* Singh, Kesar; Teng, Julie H.) DDMA-charts: nonparametric multivariate moving average control charts based on data depth. (English summary)
Lloyd, Chris J. *see* **Kabaila, Paul, 2005c:62051**
Louzada-Neto, Francisco *see* **Perdoná, Gleici Castro et al.** *and* **Tojeiro, Cynthia A. V. et al.**
Lu, Kaifeng (*with* Tsiatis, Anastasios A.) Comparison between two partial likelihood approaches for the competing risks model with missing cause of failure. (English summary)
Luciani, Fabio *see* **Turchetti, Giorgio et al., (2005d:92001)**
L'vin, S. Ya. *see* **Gupta, Ramesh C.**
Lynn, Nicholas James The price of failure. (English summary) (*see* **2005a:62018**)
Mariani, Luca *see* **Turchetti, Giorgio et al., (2005d:92001)**
Martz, Harry F. *see* **Wilson, Alyson G. et al., (2005a:62018)**
Mathew, Thomas[1] *see* **Roy, Anindya**
May, Susanne (*with* Hosmer, David W.) A cautionary note on the use of the Grønnesby and Borgan goodness-of-fit test for the Cox proportional hazards model. (English summary)
Mazliak, Laurent *see* **Ceci, Claudia, 2005h:62104**
(Mazzuchi, Thomas A.) *see* **Mathematical reliability: an expository perspective, 2005a:62018**
McCulloch, Charles E. *see* **Vittinghoff, Eric et al.**
Mease, David (*with* Nair, Vijayan N.; Sudjianto, Agus) Selective assembly in manufacturing: statistical issues and optimal binning strategies. (English summary) **2005a:62242**
Meerkov, Semyon M. *see* **Li, Jingshan**
Mercader, José-Angel *see* **Belzunce, Félix et al., 2005i:60026**
Mesbah, Mounir (*with* Dupuy, Jean-François; Heutte, Natacha; Awad, Lucile) Joint analysis of longitudinal quality of life and survival processes. (*see* **2005a:62015**)
— *see also* **Dupuy, Jean-François, 2005b:62152**
Mi, Jie *see* **Cha, Ji Hwan et al., 2005g:90031**
Mierluş-Mazilu, Ion *see* **Trandafir, Romică et al.**
Modarres, Mohammad *see* **Azaron, Amir et al., 2005h:90027**
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Nair, Vijayan N. *see* **Mease, David et al., 2005a:62242**
Natvig, Bent *see* **Gåsemyr, Jørund et al., 2005f:65015**
Navarro, Jorge (*with* Ruiz Gómez, José María) Characterizations from relationships between failure rate functions and conditional moments. (English summary)
Newman, David E. *see* **Dobson, Ian et al.**
Nikulin, Mikhail S. *see* **Bagdonavičius, Vilijandas B. et al.**
Nygård, Cecilie Sjuls *see* **Gåsemyr, Jørund et al., 2005f:65015**
Ohta, Hiroshi[1] *see* **Kudo, Kazuki et al.**
Ollis, James *see* **Sparks, Ross, (2005a:62014)**
Osaki, S. *see* **Dohi, T. et al., 2005i:60176**
Ouyang, Zi Sheng Normal approximation of regression function by randomly right-censored data. (Chinese. English and Chinese summaries) **2005f:62149**
Padgett, William J. *see* **Surles, J. G., 2005g:62030**
Paggiaro, Adriano (*with* Torelli, Nicola) The effect of classification errors in survival data analysis. (English summary)
Pan, Guohua (*with* Santner, Thomas J.) Theory of screening procedures to identify robust product designs using fractional factorial experiments. (English summary)
Pan, Rong *see* **Colosimo, B. M. et al.**
Park, Changsoon An integrated process control procedure with repeated adjustments and EWMA monitoring under an IMA(1, 1) disturbance with a step shift. (English summary)
Parsons, Van L. *see* **Hoàng, Thu M., (2005d:62008)**
Paula, Gilberto A. *see* **Galea Rojas, Manuel et al.**
Pauler, Donna K. (*with* Hardin, Johanna; Faulkner, James R.; LeBlanc, Michael; Crowley, John J.) Survival analysis with gene expression arrays. (*see* **2005a:62015**)
Pawlak, Mirosław (*with* Rafajłowicz, Ewaryst; Steland, Ansgar) On detecting jumps in time series: nonparametric setting. (English summary) **2005g:62161**
Pearn, Wen Lea (*with* Lin, Pi Chuan; Chen, Kuen-Suan) The C''_{pk} index for asymmetric tolerances: implications and inference. (English summary)
Perdoná, Gleici Castro (*with* Louzada-Neto, Francisco; Tojeiro, Cynthia A. V.) Bayesian modelling of log-non-linear stress-response relationships in accelerated lifetime tests. (English summary)
Pitacco, Ermanno Survival models in a dynamic context: a survey. (English summary)
Pitchaimani, M. Estimation and sensitivity of Gompertz parameters with mortality deceleration rate. (English summary)
Priya, Kriti *see* **Jain, Madhu**
Putter, Hein *see* **Wintrebert, Claire M. A. et al.**
Rabenstein, T. *see* **Radespiel-Tröger, M. et al., (2005b:62008)**
Radespiel-Tröger, M. (*with* Rabenstein, T.; Höpfner, L.; Schneider, H. T.) Comparing split criteria for constructing survival trees. (English summary) (*see* **2005b:62008**)
Rafajłowicz, Ewaryst *see* **Pawlak, Mirosław et al., 2005g:62161**
Rahim, M. A. *see* **Lam, K. K., (2005a:62017)**
Rahman, Md. Monsur *see* **Dharmadhikari, A. D., 2005b:90031**
Rajagopal, Rajalakshmi *see* **Jeeva, M. et al., 2005d:62171**
Rajendra Prasad, V. *see* **Kuo, Way, (2005a:62018)**
Ravi, Vadlamani Optimization of complex system reliability by a modified great deluge algorithm. (English summary)
Reese, C. Shane *see* **Wilson, Alyson G. et al., (2005a:62018)**
Reineke, David M. (*with* Crown, John S.) Estimation of hazard, density and survivor functions for randomly censored data. (English summary)
Rosthøj, Susanne (*with* Keiding, Niels) Explained variation and predictive accuracy in general parametric statistical models: the role of model misspecification. (English summary)
Roy, Anindya (*with* Mathew, Thomas[1]) A generalized confidence limit for the reliability function of a two-parameter exponential distribution. (English summary)
Roy, Dilip Bivariate characterized model based on mean residual life properties. (English summary) **2005a:62130**
— A generalization of the lack of memory property and related characterization results. (English summary) **2005m:62035**
Ruiz Gómez, José María *see* **Belzunce, Félix et al., 2005i:60026** *and* **Navarro, Jorge**
Ryabinin, I. A. Logical-probabilistic calculus as an apparatus for investigating the reliability safety of structurally complex systems. (Russian. Russian summary) **2005j:03018**
Rykov, Vladimir V. *see* **Dimitrov, Boyan N., 2005e:90024**
Sakawa, Masatoshi *see* **Azaron, Amir et al., 2005h:90027**
Sampath Kumar, V. S. (*with* Sarma, K. V. S.; Sekhar, K.) The least cost testing sequence problem. (English summary)
Sankaran, P. G. *see* **Asha, G., 2005e:62079**
Santner, Thomas J. *see* **Pan, Guohua**
Saraiva, Pedro *see* **Zempléni, András et al.**
Sarhan, Ammar M. *see* **El-Gohary, Awad I., 2005h:62091**
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Sathyamoorthi, R. *see* **Kumar, R. Suresh et al.**
Savithri *see* **Swamy, R. J. R.**
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Schäfer, Helmut[1] *see* **Ziegler, Andreas et al., (2005b:62008)**
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Sekhar, K. *see* **Sampath Kumar, V. S. et al.**
Shah, S. Waqar Ali *see* **Jan, Bahrawar et al.**
Shaked, Moshe *see* **Belzunce, Félix, 2005e:90023**
Sheu, Shey-Huei (*with* Chien, Yu-Hung) Optimal burn-in time to minimize the cost for general repairable products sold under warranty. (English summary) **2005g:90030**
Shevasuthisilp, Suntichai (*with* Vardeman, Stephen B.) Development programs for one-shot systems using multiple-state design reliability models. (English summary) **2005e:90051**
Shi, Peng *see* **Zhong, Maiying et al., 2005e:94313**
Shiboski, Stephen C. *see* **Vittinghoff, Eric et al.**
Shinnar, Shlomo *see* **Ebrahimi, Nader et al., (2005a:62015)**
Singh, Kesar *see* **Liu, Regina Y. et al.**
Singpurwalla, Nozer D. Warranty: a surrogate of reliability. (English summary) (*see* **2005a:62018**)
— *see also* **Mathematical reliability: an expository perspective, 2005a:62018**
Sinha, Debajyoti (*with* Chen, Ming-Hui; Ibrahim, Joseph G.) Bayesian inference for survival data with a surviving fraction. (English summary) (*see* **2005i:62004**)
Skřivánek, Jaroslav The optimal control chart procedure. (English summary) **2005i:62156**
Snapinn, Steven *see* **Jiang, Qi et al.**
Solojentsev, Evgueni (*with* von Collani, Elart) Evaluation of quality and market risk of complex industrial products. (English summary) (*see* **2005a:62017**)
(Soyer, Refik) *see* **Mathematical reliability: an expository perspective, 2005a:62018**
Sparks, Ross (*with* Ollis, James) Monitoring pavement construction processes. (English summary) (*see* **2005a:62014**)
Steland, Ansgar *see* **Pawlak, Mirosław et al., 2005g:62161**
Suciu, Gabriel P. (*with* Lemeshow, Stanley; Moeschberger, Melvin) Statistical tests of the equality of survival curves: reconsidering the options. **2005e:62135**
Sudjianto, Agus *see* **Mease, David et al., 2005a:62242**
Suenaga, Katsumasa *see* **Takeuchi, Akinobu et al., (2005a:62017)**
(Suh, Nam P.) *see* **El-Haik, Basem Said, 2005m:90026**
Sun, Jianguo Statistical analysis of doubly interval-censored failure time data. (*see* **2005a:62015**)
— *see also* **Sun, Liuquan et al.**
Sun, Liuquan (*with* Kim, Yang-jin; Sun, Jianguo) Regression analysis of doubly censored failure time data using the additive hazards model. (English summary)
Sun, Wanlong (*with* Li, Hongzhe) Ascertainment-adjusted maximum likelihood estimation for the additive genetic gamma frailty model. (English summary)
Surles, J. G. (*with* Padgett, William J.) Some properties of a scaled Burr type X distribution. (English summary) **2005g:62030**
Swamy, R. J. R. (*with* Savithri) Distribution of demerit statistic with Markov type dependence and applications in statistical quality control. (English summary)
Takeuchi, Akinobu (*with* Suenaga, Katsumasa; Yadohisa, Hiroshi; Yamaguchi, Kazunori[2]; Watanabe, Michiko; Asano, Chooichiro) Dynamic link library and electronic book for statistical quality control. (English summary) (*see* **2005a:62017**)
Teng, Julie H. *see* **Liu, Regina Y. et al.**
Tojeiro, Cynthia A. V. (*with* Louzada-Neto, Francisco; Bolfarine, Heleno) A Bayesian analysis for accelerated lifetime tests under an exponential power law model with threshold stress. (English summary)
— *see also* **Perdoná, Gleici Castro et al.**
Torelli, Nicola *see* **Paggiaro, Adriano**

Trandafir, Romică (*with* Demetriu, Sorin; Mierluș-Mazilu, Ion) Determination of reliability bounds for structural systems using linear programming. (English summary)
Tsiatis, Anastasios A. *see* **Lu, Kaifeng**
Turchetti, Giorgio (*with* Luciani, Fabio; Mariani, Luca) Environmental randomness and survival probability. (English summary) (*see* **2005d:92001**)
Vardeman, Stephen B. *see* **Shevasuthisilp, Suntichai, 2005e:90051**
Varshney, Gaurav *see* **Gupta, Rakesh[1]**
Véber, Miklós *see* **Zempléni, András et al.**
Venkatraman, E. S. *see* **Heller, Glenn, 2005c:62079**
Vittinghoff, Eric (*with* Glidden, David V.; Shiboski, Stephen C.; McCulloch, Charles E.) ★ Regression methods in biostatistics.
Wang, Bing Xing The estimation of the constant stress accelerated life tests with nonconstant shape parameter under Weibull distribution. (Chinese. English and Chinese summaries) **2005a:62214**
Wang, Wen-Ying Integrated inspection strategy model with inspection errors and positive inspection time lengths. (English summary)
Watanabe, Michiko *see* **Takeuchi, Akinobu et al.**, (**2005a:62017**)
Wei, Li[2] *see* **Wu, Rong[1], 2005c:62194**
Wendelberger, Joanne *see* **Hamada, Michael S. et al.**
William, Martin L. *see* **Jeeva, M. et al., 2005d:62171**
Willmot, Gordon E. (*with* Drekic, Steve; Cai, Jun) Equilibrium compound distributions and stop-loss moments. (English summary) **2005m:62040**
Wilrich, Peter-Theodor Single sampling plans for inspection by variables under a variance component situation. (English summary) (*see* **2005a:62017**)
— *see also* **Frontiers in statistical quality control 7, 2005a:62017**
Wilson, Alyson G. (*with* Reese, C. Shane; Hamada, Michael S.; Martz, Harry F.) Integrated analysis of computer and physical experimental lifetime data. (English summary) (*see* **2005a:62018**)
Wintrebert, Claire M. A. (*with* Putter, Hein; Zwinderman, Aeilko H.; van Houwelingen, J. C.) Centre-effect on survival after bone marrow transplantation: application of time-dependent frailty models. (English summary)
Wong, Heung *see* **He, Shu Yuan, 2005d:62056**
Wu, Rong[1] (*with* Wei, Li[2]) The probability of ruin in a kind of Cox risk model with variable premium rate. (English summary) **2005c:62194**
Xie, Min[1] *see* **Cui, Lirong, 2005k:90019**
Xiong, Shuang Ping Probability of ruin for the Cox model with a constant interest rate. (English and Chinese summaries) **2005i:62152**
Xu, Susan H. *see* **Li, Haijun, 2005c:90023**
Xu, Xiaoling (*with* Fei, He Liang) Parameter estimation of the Weibull distribution tampered failure rate model under a normal stress. (English and Chinese summaries) **2005i:62053**
Yadavalli, V. S. S. *see* **Jeeva, M. et al., 2005d:62171**
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Yamaguchi, Kazunori[2] *see* **Takeuchi, Akinobu et al.**, (**2005a:62017**)
Yamamoto, Hisashi (*with* Akiba, Tomoaki) Evaluating methods for the reliability of a large 2-dimensional rectangular k-within-consecutive-(r, s)-out-of-(m, n): F system. (English summary) **2005i:90016**
Yan, Jun *see* **Fine, Jason P. et al., 2005d:62054**
Yeh, Hsiao Chên The generalized Marshall-Olkin type multivariate Pareto distributions. (English summary) **2005a:62133**
Yin, Guosheng (*with* Cai, Jianwen) Additive hazards model with multivariate failure time data. (English summary)
— (*with* Zeng, Donglin) Pair chart test for an early survival difference. (English summary)
Yun, W. Y. *see* **Giri, Bibhas Chandra et al.**
Zacks, Shelemyahu Exact determination of the run length distribution of a one-sided CUSUM procedure applied on an ordinary Poisson process. (English summary) **2005c:60061**
Zdorova-Cheminade, Olga *see* **Bagdonavičius, Vilijandas B. et al.**
Zempléni, András (*with* Véber, Miklós; Duarte, Belmiro; Saraiva, Pedro) Control charts: a cost-optimization approach for processes with random shifts. (English summary)
Zeng, Donglin *see* **Yin, Guosheng**
Zhang, He Ping[1] Tree-based methods. (*see* **2005c:62003**)
Zhang, Xu[3] *see* **Ebrahimi, Nader et al.**, (**2005a:62015**)
Zhao, Ming Qing *see* **Gao, Ming Mei et al.**
Zhong, Maiying (*with* Lam, James; Ding, Steven Xianchun; Shi, Peng) Robust fault detection of Markovian jump systems. (English summary) **2005e:94313**
Ziegler, Andreas (*with* Hartmann, O.; König, I. R.; Schäfer, Helmut[1]) Statistical genetics—present and future. (English summary) (*see* **2005b:62008**)
Zuo, Ming J. *see* **Li, Xiao Hu, 2005b:60044**
Zwinderman, Aeilko H. *see* **Wintrebert, Claire M. A. et al.**

Items listed otherwise than by author

Frontiers in statistical quality control 7 ★ Frontiers in statistical quality control 7. **2005a:62017**
Lecture Notes in Mathematics *see* **Dohmen, Klaus, 2005f:06001**
Mathematical reliability: an expository perspective ★ Mathematical reliability: an expository perspective. **2005a:62018**
Waterloo, ON ★ Frontiers in statistical quality control 7. **2005a:62017**

62N99 None of the above, but in this section

Items with secondary classifications in 62N99

Holeňa, Martin Fuzzy hypotheses testing in the framework of fuzzy logic. (English summary) **2005b:03064**

62Pxx Applications [see also 90–XX, 91–XX, 92–XX]

62P05 Applications to actuarial sciences and financial mathematics

Aggoun, Lakhdar Recursive estimation of the claim rates and sizes in an insurance model. **2005h:62282**
Albers, Willem *see* **Reijnen, Rajko et al.**
Anento, Napoleón *see* **Perelló, Josep et al.**
Aucremanne, L. (*with* Brys, G.; Hubert, Mia; Rousseeuw, Peter J.; Struyf, Anja) A study of Belgian inflation, relative prices and nominal rigidities using new robust measures of skewness and tail weight. (English summary) (*see* **2005c:62006**)
Balbas de la Corte, Alejandro (*with* Romera, Rosario; Ruiz, Esther) An overview of probabilistic and time series models in finance. (English summary) (*see* **2005f:60007**)
Barndorff-Nielsen, Ole E. (*with* Nielsen, Bent; Shephard, Neil; Ysusi, Carla) Measuring and forecasting financial variability using realised variance. (English summary) (*see* **2005c:62005**)
Barone Adesi, Giovanni (*with* Gagliardini, Patrick; Urga, Giovanni) Testing asset pricing models with coskewness. (English summary)
Barzanti, L. (*with* Corradi, Corrado) A stable iterative algorithm for evaluation of upper and lower approximations to ultimate ruin probabilities. (English and Italian summaries)
Beirlant, Jan *see* **Hoedemakers, Tom et al.**
Bi, Xiu Chun (*with* Yin, Chuan Cun) A local result on probability in renewal risk model. (Chinese. English and Chinese summaries) **2005m:62191**
Bilodeau, Martin Discussion on: "Tail conditional expectations for elliptical distributions" [N. Am. Actuar. J. **7** (2003), no. 4, 55–71; MR2061237 (2005c:62026)] by Z. M. Landsman and E. A. Valdez.
Bonissone, Piero P. Development and maintenance of fuzzy models in financial applications. (*see* **2005i:62007**)
Bouchaud, Jean-Philippe (*with* Muzy, Jean-François) Financial time series: from Batchelier's random walks to multifractal 'cascades'. (English summary) (*see* **2005a:00023**)
Brazauskas, Vytaras (*with* Kaiser, Thomas) Discussion on: "Empirical estimation of risk measures and related quantities" [N. Am. Actuar. J. **7** (2003), no. 4, 44–54; MR2061236] by B. L. Jones and R. Zitikis.
Brouhns, Natacha (*with* Denuit, Michel; van Keilegom, Ingrid) Bootstrapping the Poisson log-bilinear model for mortality forecasting. (English summary)
Bruchlos, Kai Schätzer und Test für den Schadenparameter in Krankenversicherungstarifen mit Selbstbeteiligung. (English, French and German summaries) [Estimator and test for the schadenparameter in health insurance tariffs with cost sharing]
Bruinshoofd, Allard (*with* Candelon, Bertrand) Nonlinear monetary policy in Europe: fact or myth? (English summary)
Brys, G. *see* **Aucremanne, L. et al.**, (**2005c:62006**)
Bühlmann, Hans (*with* Platen, Eckhard) A discrete time benchmark approach for insurance and finance. (English summary) **2005a:62222**
Burnecki, Krzysztof (*with* Miśta, Paweł; Weron, Aleksander) What is the best approximation of ruin probability in infinite time? (English summary)
Campana, Antonella Dependency of insurance risks and the Burr distribution. (English summary)
Candelon, Bertrand *see* **Bruinshoofd, Allard**
Carmona, René (*with* Ludkovski, Michael) Spot convenience yield models for the energy markets. (English summary) (*see* **2005b:91010**)
Cavaliere, Giuseppe *see* **Gardini, Attilio et al.**
Chan, Raymond H. *see* **Wong, Wing-Keung, 2005h:62288**
Chan, Wai Sum (*with* Wong, Albert C. S.; Tong, Howell) Some nonlinear threshold autoregressive time series models for actuarial use. (English summary)
— *see also* **Li, Siu-Hang**
Charles, Amélie (*with* Darné, Olivier) Outliers and GARCH models in financial data. (English summary)
Chen, Feng *see* **Li, Ze Hui et al., 2005m:62193**
Chen, Qian (*with* Zou, Jie Zhong) A risk model with the occurrence of claims described by a Markov jump process. (Chinese. English and Chinese summaries)
Cheng, Feng Yang Ruin probabilities for large claims in generalized delayed renewal risk model. (English summary) **2005h:62283**
Cheng, Qian Sheng *see* **Wu, Guang Xu et al., 2005m:62194**
Cheng, Shi Xue *see* **Li, Ming Ming**
Christmann, Andreas On a strategy to develop robust and simple tariffs from motor vehicle insurance data. (English summary)
Christodoulakis, George A. (*with* Satchell, Stephen E.) Forecast evaluation in the presence of unobserved volatility. (English summary)
Chung, Jeff (*with* Gan, Li) Estimating the effect of price limits on limit-hitting days. (English summary)
Clavel, Jose G. (*with* Martínez Conesa, Isabel; Ortiz Martínez, Esther) Analyzing foreign financial statements: a dual scaling approach to the international ratio analysis. (English summary) (*see* **2005b:62010**)
Cooper, John C. B. Purchasing power parity theory: a cointegration analysis of seven Latin American currencies. (English summary)
Corielli, Francesco (*with* Meucci, Attilio) Pitfalls in linear models for style analysis. (English summary)
Corradi, Corrado *see* **Barzanti, L.**
Cossette, Hélène (*with* Duchesne, Thierry; Marceau, Étienne) Modeling catastrophes and their impact on insurance portfolios. (English summary) **2005a:62223**
— (*with* Landriault, David; Marceau, Étienne) Exact expressions and upper bound for ruin probabilities in the compound Markov binomial model. (English summary) **2005c:62191**
Costa, Michele International financial flows and territorial disparities: a statistical analysis. (Italian. English and Italian summaries)
— *see also* **Gardini, Attilio et al.**
Czado, Claudia (*with* Delwarde, Antoine; Denuit, Michel) Bayesian Poisson log-bilinear mortality projections. (English summary)
Dahan, Merav (*with* Frostig, Esther; Langberg, Naftali A.) Insurance contracts portfolios with heterogenous parametric life distributions. (English summary) **2005i:62147**
Darné, Olivier *see* **Charles, Amélie**
Delwarde, Antoine *see* **Czado, Claudia et al.**

Denuit, Michel (*with* Goderniaux, Anne-Cécile) Closing and projecting life tables using log-linear models. (English, French and German summaries)
— *see also* **Brouhns, Natacha et al.** *and* **Czado, Claudia et al.**
Dhaene, Jan *see* **Hoedemakers, Tom et al.**
Diks, Cees The correlation dimension of returns with stochastic volatility. (English summary) **2005b:62213**
Dong, Hua (*with* Zhao, Xiang Hua; Yin, Chuan Cun) Ruin problems for a sparse Andersen risk process under large claims. (Chinese. English and Chinese summaries) **2005i:62148**
Duchesne, Thierry *see* **Cossette, Hélène et al., 2005a:62223**
Engle, Robert F. (*with* Manganelli, Simone) CAViaR: conditional autoregressive value at risk by regression quantiles. (English summary) **2005h:62284**
Fabrizi, Enrico Hierarchical Bayesian models for the estimation of unemployment rates in small domains of the Italian labour force survey. (English and Italian summaries)
Fahrmeir, Ludwig *see* **Lang, Stefan[2] et al., (2005b:62008)**
Farooq Akram, Q. Oil prices and exchange rates: Norwegian evidence. (English summary)
Ferenstein, Elżbieta Z. (*with* Gąsowski, Mirosław) Modelling stock returns with AR-GARCH processes. (English and Catalan summaries)
Flynn, David B. (*with* Grose, Simone D.; Martin, Gael M.; Martin, Vance L.) Pricing Australian S&P200 options: a Bayesian approach based on generalized distributional forms. (English summary)
Frees, Edward W. *see* **Luo, Yu et al.**
Frostig, Esther *see* **Dahan, Merav et al., 2005i:62147**
Gagliardini, Patrick *see* **Barone Adesi, Giovanni et al.**
Gáll, József (*with* Pap, Gyula[1]; Van Zuijlen, Martien C. A.) Maximum likelihood estimator of the volatility of forward rates driven by geometric spatial AR sheet. (English summary) **2005g:62179**
Gan, Li *see* **Chung, Jeff**
Gao, Hong Zhong A new class of claim frequency distributions. (Chinese. English and Chinese summaries) **2005m:62192**
Gardini, Attilio (*with* Cavaliere, Giuseppe; Costa, Michele) Fundamentals and asset price dynamics. (English summary)
Garrido, José (*with* Lu, Yi) On double periodic non-homogeneous Poisson processes. (English, French and German summaries) **2005i:62149**
Gąsowski, Mirosław *see* **Ferenstein, Elżbieta Z.**
Georgopoulos, George J. (*with* Hejazi, Walid) Feldstein-Horioka meets a time trend. (English summary)
Gerber, Hans U. Comment: "A note on the Myers and Read capital allocation formula" [N. Am. Actuar. J. **8** (2004), no. 2, 32–44; MR2064432 (2005a:62229)] by S. J. Mildenhall.
Goderniaux, Anne-Cécile *see* **Denuit, Michel**
Gontis, V. (*with* Kaulakys, B.) Modeling financial markets by the multiplicative sequence of trades. (English summary)
Goovaerts, Marc J. *see* **Hoedemakers, Tom et al.**
Grose, Simone D. *see* **Flynn, David B. et al.**
Gu, Wei (*with* Wan, Jian Ping; Wang, Li Li) The theory of VaR and its applications in weekend effects on stock returns. (Chinese. English and Chinese summaries) **2005h:62285**
Guo, Xin A regime switching model: statistical estimation, empirical evidence, and change point detection. (English summary) (*see* **2005b:91010**)
Hardy, Mary R. (*with* Wirch, Julia L.) The iterated CTE: a dynamic risk measure. (English summary)
Hashorva, Enkelejd Bivariate maximum insurance claim and related point processes. (English summary) **2005h:62286**
Haybach, G. *see* **Lang, Stefan[2] et al., (2005b:62008)**
He, Shu Hong (*with* Xia, Zi Xiang) Ruin probability of a risk model of time surplus with stochastic interest. (Chinese. English and Chinese summaries)
Heathcote, Christopher R. (*with* Higgins, Tim) Regression modelling of mortality surfaces and the deceleration of mortality. (English summary)
Hejazi, Walid *see* **Georgopoulos, George J.**
Higgins, Tim *see* **Heathcote, Christopher R.**
Hoedemakers, Tom (*with* Goovaerts, Marc J.) Comment on: "Risk and discounted loss reserves" [N. Am. Actuar. J. **8** (2004), no. 1, 37–44; MR2039871 (2005a:62233)] by G. Taylor.
— (*with* Beirlant, Jan; Goovaerts, Marc J.; Dhaene, Jan) On the distribution of discounted loss reserves using generalized linear models. (English summary)
Höse, S. (*with* Huschens, S.) From credit scores to stable default probabilities: a model based approach. (English summary) (*see* **2005b:62008**)
Hu, Qiying *see* **Jiang, Min et al., 2005j:62203**
Hubert, Mia *see* **Aucremanne, L. et al., (2005c:62006)**
Hürlimann, Werner The algebra of cash flows: theory and application. **2005a:62224**
Huschens, S. *see* **Höse, S., (2005b:62008)**
Ignatov, Tsvetan G. (*with* Kaishev, Vladimir K.; Krachunov, Rossen S.) Optimal retention levels, given the joint survival of cedent and reinsurer. (English summary) **2005f:62161**
Irle, A. A measure-theoretic approach to completeness of financial markets. (English summary) **2005d:62166**
Jacquier, Eric (*with* Polson, Nicholas G.; Rossi, Peter E.) Bayesian analysis of stochastic volatility models with fat-tails and correlated errors. (English summary)
Jiang, Min (*with* Hu, Qiying; Meng, Zhiqing) A method on solving multiple conditional value-at-risk based on weights. (English summary) **2005j:62203**
(Jones, Bruce L.) *see* **Brazauskas, Vytaras**
Kaiser, Thomas *see* **Brazauskas, Vytaras**
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Kallenberg, Wilbert C. M. *see* **Reijnen, Rajko et al.**
Kałuszka, Marek (*with* Kondratiuk-Janyska, Alina) On risk minimizing strategies for default-free bond portfolio immunization. (English summary) **2005g:62180**
— An extension of Arrow's result on optimality of a stop loss contract. (English summary) **2005g:62181**
— Mean-variance optimal reinsurance arrangements. (English summary) **2005c:62192**
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Kaulakys, B. *see* **Gontis, V.**
van Keilegom, Ingrid *see* **Brouhns, Natacha et al.**
Kerekesha, D. P. Exact solution of the risk equation with a piecewise-constant current reserve function. (Ukrainian. Ukrainian summary) **2005j:62204**
Kiesel, R. (*with* Stadtmüller, Ulrich) Dimensions of credit risk. (English summary) (*see* **2005b:62008**)
Kim, Jaebeom Convergence rates to purchasing power parity for traded and nontraded goods: a structural error-correction model approach. (English summary)
Kim, Young Ja *see* **Lee, Kang Sup**
Klaassen, Franc Long swings in exchange rates: are they really in the data? (English summary)
Kläver, Hendrik (*with* Schmid, Friedrich) The effect of conditional heteroskedasticity on common statistical procedures for means and variances. (English summary)
Koivu, Matti (*with* Pennanen, Teemu; Ranne, Antero) Modeling assets and liabilities of a Finnish pension insurance company: a VEqC approach. (English summary)
Kolkiewicz, Adam W. (*with* Tan, Ken Seng) Volatility risk for regime-switching models. (English summary)
Kondratiuk-Janyska, Alina *see* **Kałuszka, Marek, 2005g:62180**
Korolev, V. Yu. (*with* Kudryavtsev, A. A.) The asymptotic behavior of the reserve of an insurance company described by the generalized risk process. **2005g:62182**
Kou, S. G. On pricing of discrete barrier options. (English summary) **2005a:62225**
Krachunov, Rossen S. *see* **Ignatov, Tsvetan G. et al., 2005f:62161**
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Kremer, Erhard Estimating the loading of the largest claims covers. (English summary) 2005b:62214
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Kulperger, Reg Stochastic finance: discrete time processes and risk neutral pricing. (English summary) (*see* **2005g:60006**)
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(Landsman, Zinoviy M.) *see* **Bilodeau, Martin**
Lang, Stefan[2] (*with* Kragler, P.; Haybach, G.; Fahrmeir, Ludwig) Bayesian space-time analysis of health insurance data. (English summary) (*see* **2005b:62008**)
Langberg, Naftali A. *see* **Dahan, Merav et al., 2005i:62147**
Lapushkin, A. S. *see* **Shchetinin, E. Yu.**
Lee, Kang Sup (*with* Kim, Young Ja) Comparative analysis on time series models for the number of reported death claims in Korean compulsory automobile insurance. (English summary)
Levikson, B. *see* **Zacks, Shelemyahu, 2005c:62195**
Li, Ming Ming (*with* Cheng, Shi Xue) The application of discrete stochastic order to compound binomial ruin model. (Chinese. English and Chinese summaries)
Li, Siu-Hang (*with* Chan, Wai Sum) Outlier analysis and mortality forecasting: the United Kingdom and Scandinavian countries. (English summary)
Li, Ze Hui (*with* Zhu, Jinxia; Chen, Feng) Study of a risk model based on the entrance process. (English summary) **2005m:62193**
Li, Zhi Ying A kind of investment decision without consideration of transaction fees. (Chinese. English and Chinese summaries) **2005a:62226**
Lillo, Rosa E. (*with* Semeraro, Patrizia) Stochastic bounds for discrete-time claim processes with correlated risks. (English summary) **2005b:62215**
Liu, Jia You (*with* Liu, Zai Ming) A discrete-time ruin model of insurance company with constant interest rate. (Chinese. English and Chinese summaries)
Liu, Jin E *see* **Mao, Ze Chun, 2005i:62150**
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Loisel, Stéphane *see* **Rullière, Didier, 2005e:62146**
Lokk, Katrin (*with* Pärna, Kalev) On risk processes with double barriers. (English summary) **2005k:62239**
Lu, Jin-yu (*with* Wang, Han Xing; Zhao, Fei) Ruin distributions and their equations. (English summary)
Lu, Yi *see* **Garrido, José, 2005i:62149**
Ludkovski, Michael *see* **Carmona, René, (2005b:91010)**
Luo, Yan (*with* Zou, Jie Zhong) A discrete insurance risk model with two-type claims. (Chinese. English and Chinese summaries)
Luo, Yu (*with* Young, Virginia R.; Frees, Edward W.) Credibility ratemaking using collateral information. (English summary)
Lynn, Nicholas James The price of failure. (English summary) (*see* **2005a:62018**)
Mancini, Cecilia Estimation of the characteristics of the jumps of a general Poisson-diffusion model. (English summary) **2005a:62227**
Manganelli, Simone *see* **Engle, Robert F., 2005h:62284**
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Maringer, Dietmar G. Finding the relevant risk factors for asset pricing. (English summary)
Martin, Gael M. *see* **Flynn, David B. et al.**
Martin, Vance L. *see* **Flynn, David B. et al.**
Martínez Conesa, Isabel *see* **Clavel, Jose G. et al., (2005b:62010)**
Masoliver, Jaume *see* **Perelló, Josep et al.**
Mazmanoglu, Adnan Variance analyses of advantages and disadvantages of the service that active financial associations provide their customers solution by the model of hierarchy classification with two factors and their applications. (English summary)
Meddahi, Nour (*with* Renault, Eric) Temporal aggregation of volatility models. (English summary) **2005a:62228**
Meng, Zhiqing *see* **Jiang, Min et al., 2005j:62203**
Meucci, Attilio *see* **Corielli, Francesco**
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Korn, Edward L. (*with* Troendle, James F.; McShane, Lisa M.; Simon, Richard) Controlling the number of false discoveries: application to high-dimensional genomic data. (English summary)
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— *see also* **Xue, Hongqi et al.**, **2005b:62221**
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— *see also* **Hothorn, Torsten et al.**, (**2005b:62008**)
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— Correction: "Distribution of the amount of genetic material from a chromosomal segment surviving to the following generation" [J. Appl. Probab. **41** (2004), no. 2, 345–354; MR2052576 (2005a:62240)].
(Stephens, David A.) *see* **Heath, Simon C.**, (**2005b:62009**)
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Woodworth, George G. ★ Biostatistics. **2005c:62198**
Wu, Colin O. (*with* Yu, Kai F.) Regression models for the analysis of longitudinal data. (*see* **2005c:62003**)
Wu, Hulin (*with* Zhao, Shoujun) Statistical models and methods in infectious diseases. (*see* **2005c:62003**)
Wu, Rongling (*with* Ma, Chang-Xing; Lin, Min[2]; Wang, Zuoheng; Casella, George) Functional mapping of quantitative trait loci underlying growth trajectories using a transform-both-sides logistic model. (English summary)
Wu, Yanhong *see* **Kim, Dong-Yun et al.**, 2005f:62163
Xie, Min Yu *see* **Li, Zhaohai**, (2005c:62003)
Xie, Tian Fa (*with* Zhang, Zhong Zhan) Test and estimation improvement for parameters in a clinical trial model. (Chinese. English and Chinese summaries) **2005j:62206**
Xue, Hongqi (*with* Lam, Kin; Li, Guo Ying[1]) Sieve maximum likelihood estimator for semiparametric regression models with current status data. (English summary) **2005b:62221**
Yakir, Benjamin *see* **Siegmund, David O.**, 2005a:62239
Yang, Hsin-Chou *see* **Chao, Anne et al.**, (2005c:62003)
Yin, Gang George (*with* Wang, Hong[10]; Wang, Le Yi; Zheng, Han) Towards identification of patient responses to anesthesia infusion in real time. (English summary) (*see* **2005f:62009**)
Yin, Guosheng (*with* Cai, Jianwen) Additive hazards model with multivariate failure time data. (English summary)
Yip, Paul S. F. *see* **Huggins, Richard M. et al.**, 2005e:62150 *and* **Chao, Anne et al.**, (2005c:62003)
Young, Dean Max *see* **Holt, Melinda A. et al.**
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Zadnik, Karla *see* **Hsu, Jason C. et al.**, (2005i:62006)
Zamia, P. *see* **Combescure, C. et al.**
Zelen, Marvin Forward and backward recurrence times and length biased sampling: age specific models. (English summary)
Zeman, Petr *see* **Jiruše, Marek et al.**
Zhang, He Ping[1] Tree-based methods. (*see* **2005c:62003**)
Zhang, Jinxin (*with* Zheng, Yingdong; Lai, Dejian) Time series analysis and its applications in medical sciences. (*see* **2005c:62003**)
Zhang, Li Xin[1] *see* **Hu, Fei Fang**, 2005d:62169
Zhang, Xu[3] *see* **Ebrahimi, Nader et al.**, (2005a:62015)
Zhang, Zhong Zhan *see* **Xie, Tian Fa**, 2005j:62206
Zhao, Shoujun *see* **Wu, Hulin**, (2005c:62003)
Zheng, Gang[1] (*with* Chen, Zehua) Robust tests for candidate-gene association using case-parents trios with a multi-allelic marker. (English summary)
— (*with* Gastwirth, Joseph L.) Fisher information in randomly sampled sib pairs and extremely discordant sib pairs in genetic analysis for a quantitative trait locus. (English summary)
Zheng, Han *see* **Yin, Gang George et al.**, (2005f:62009)
Zheng, Yingdong *see* **Zhang, Jinxin et al.**, (2005c:62003)
Zhou, Qing[3] *see* **Jensen, Shane T. et al.**
Zhou, Xiao-Hua Evaluation of diagnostic test's accuracy in the presence of verification bias. (*see* **2005c:62003**)
— *see also* **Ren, Haobo et al.**
Zhu, Guangrui *see* **Lai, Tze Leung et al.**, (2005c:62003)
Zhu, Yiliang Dose-response modeling in health risk assessment. (English summary) (*see* **2005c:62003**)
Ziegler, Andreas (*with* Hartmann, O.; König, I. R.; Schäfer, Helmut[1]) Statistical genetics—present and future. (English summary) (*see* **2005b:62008**)
Zou, Kelly H. (*with* Gastwirth, Joseph L.; McNeil, Barbara J.) A goodness-of-fit test for a receiver operating characteristic curve from continuous diagnostic test data. (English summary) (*see* **2005i:62004**)
Zwinderman, Aeilko H. *see* **Wintrebert, Claire M. A. et al.**

Items with secondary classifications in 62P10

Ahn, Hongshik *see* **Joo, Jungnam et al.**
Aitchison, John (*with* Kay, Jim W.; Lauder, Ian J.) ★ Statistical concepts and applications in clinical medicine.
Al-Awadhi, Fahimah *see* **Ghitany, M. E. et al.**
Al-Awadhi, S. A. *see* **Ghitany, M. E. et al.**
Alfieri, Alessandra (*with* El Barmi, Hammou) Nonparametric estimation of a distribution with type I bias with applications to competing risks. (English summary) **2005j:62071**
Altunkaynak, B. *see* **Bakir, M. A.**
Asselain, Bernard *see* **Boucher, Kenneth M. et al.**, (2005d:62008)
Aston, John A. D. (*with* Gunn, Roger N.) Statistical estimation with Kronecker products in positron emission tomography. (English summary) **2005i:92006**
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Bagdonavičius, Vilijandas B. (*with* Levuliene, Ruta J.; Nikulin, Mikhail S.; Zdorova-Cheminade, Olga) Tests for equality of survival distributions against non-location alternatives. (English summary)
Bakir, M. A. (*with* Altunkaynak, B.) The optimization with the genetic algorithm approach of the multi-objective, joint economical design of the $\bar{x}$ and R control charts. (English summary)
Barker, Peter Niel (*with* Henderson, Robin) Modelling coverging hazards in survival analysis. (English summary)
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Bell, Bradley M. *see* **Pillonetto, Gianluigi**, 2005c:92011
Ben-Gal, Irad *see* **Shmilovici, Armin**
Berger, Vance W. Valid adjustment of randomized comparisons for binary covariates. (English summary)
Bickel, Peter J. *see* **Olshen, A. B. et al.**
Bilancia, Massimo (*with* Pollice, Alessio) A spatial clustering hierarchical model for disease mapping. (English summary) (*see* **2005f:62007**)
Biswas, Atanu (*with* Dewanji, Anup) Inference for a RPW-type clinical trial with repeated monitoring for the treatment of rheumatoid arthritis. (English summary)
— (*with* Dewanji, Anup) Scheduling optimal examination times in a simple illness-death model. (English summary)
Blum, Michael G. B. (*with* François, Olivier) On statistical tests of phylogenetic tree imbalance: the Sackin and other indices revisited. (English summary) **2005m:92024**
Boucher, Kenneth M. (*with* Asselain, Bernard; Tsodikov, Alexander D.; Yakovlev, Andrei Yur'evich) Semiparametric versus parametric regression analysis based on the bounded cumulative hazard model: an application to breast cancer recurrence. (English summary) (*see* **2005d:62008**)
Brännäs, Eva *see* **Brännäs, Kurt**
Brännäs, Kurt (*with* Brännäs, Eva) Conditional heteroskedasticity in count data regression: self-feeding activity in fish. (English summary)
Bretz, Frank *see* **Strassburger, Klaus et al.**, (2005i:62006)
Broët, Philippe (*with* Tsodikov, Alexander D.; De Rycke, Yann; Moreau, Thierry) Two-sample statistics for testing the equality of survival functions against improper semi-parametric accelerated failure time alternatives: an application to the analysis of a breast cancer clinical trial. (English summary)
Bruchlos, Kai Schätzer und Test für den Schadenparameter in Krankenversicherungstarifen mit Selbstbeteiligung. (English, French and German summaries) [Estimator and test for the schadenparameter in health insurance tariffs with cost sharing]
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Burr, Tom (*with* Gattiker, James) The impact of model uncertainty on biological parameter estimates. (English summary)
Cai, Jianwen (*with* Schaubel, Douglas E.) Marginal means/rates models for multiple type recurrent event data. (English summary) **2005c:62056**
— *see also* **Kong, Lan et al.**, 2005b:62074 *and* **Schaubel, Douglas E.**, 2005e:62134
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Carlin, Bradley P. *see* **Jin, Xiaoping**
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Caswell, Hal Sensitivity analysis of the stochastic growth rate: three extensions. (English summary)
Celletti, Alessandra (*with* Villa, Alessandro E. P.) Analysis of short time series with applications to neurobiology. (English summary) (*see* **2005d:92001**)
Cepeda, Edilberto C. (*with* Gamerman, Dani) Bayesian modeling of joint regressions for the mean and covariance matrix. (English summary)
Chan, Hock Peng Correction: "Upper bounds and importance sampling of p-values for DNA and protein sequence alignments" [Bernoulli **9** (2003), no. 2, 183–199; MR1997026 (2004e:62017)].
Chan, Wen-Yaw *see* **McGhee, Charles R. et al.**, (2005i:62004)
Chang, Shu-Hui Estimating marginal effects in accelerated failure time models for serial sojourn times among repeated events. (English summary)
Chappell, Rick *see* **Jiang, Hongyu et al.**, 2005k:62228
Charif, H. A. *see* **El-Bassiouni, M. Y.**
Chen, Ming-Hui (*with* Ibrahim, Joseph G.; Sinha, Debajyoti) A new joint model for longitudinal and survival data with a cure fraction. (English summary)
— *see also* **Ibrahim, Joseph G. et al.** *and* **Sinha, Debajyoti et al.**, (2005i:62004)
Chen, Pinyuen (*with* Rollin, Linda M.) A two-stage selection and testing design for comparing several normal means with a standard. (English summary) **2005b:62047**
Chen, Tuhao J. A lower bound using Hamilton-type circuits and its applications. (English summary) **2005b:62036**

Chen, Xun (*with* Luo, Xiaohui) Some modifications on the application of the exact Wilcoxon-Mann-Whitney test. (English summary)
Chen, Zhe[1] *see* **Haykin, Simon et al.**
Cheng, Cheng *see* **Li, Chin-Shang**
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Conaway, Mark R. (*with* Dunbar, Stephanie A.; Peddada, Shyamal D.) Designs for single- or multiple-agent phase I trials. (English summary)
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Cosman, P. C. *see* **Olshen, A. B. et al.**
Crawford, Gregory S. (*with* Shum, Matthew) Uncertainty and learning in pharmaceutical demand. (English summary) **2005m:91042**
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Dimcevici-Poesina, Nicoleta On profile similarity in bioequivalence trials. (English summary)
— On robust procedures for bioassays case fixed dose design. (English summary)
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Dougherty, Edward R. *see* **Zhou, Xiaobo et al.**
Dress, Andreas W. M. (*with* Lokot, T.; Pustyl′nikov, L. D.; Schubert, W.) Poisson numbers and Poisson distributions in subset surprisology. (English summary) **2005k:60029**
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Dunbar, Stephanie A. *see* **Conaway, Mark R. et al.**
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— *see also* **O'Brien, Sean M.**
van Dyk, David A. *see* **Imai, Kosuke**
Eddy, William F. (*with* McNamee, Rebecca L.) Functional magnetic resonance imaging. (*see* **2005g:62004**)
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El-Bassiouni, M. Y. (*with* Charif, H. A.) Testing a null variance ratio in mixed models with zero degrees of freedom for error. (English summary)
Emerson, Scott S. *see* **Gillen, Daniel L.**
Ernst, Chris M. (*with* Ernst, G.; Szczesny, A.) Knee replacement surgery and learning effects—data evidence from a German hospital. (English summary) (*see* **2005b:62008**)
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Eszlinger, Markus *see* **Kropf, Siegfried et al., 2005e:62069**
Ewens, Warren J. (*with* Grant, Gregory R.) ★ Statistical methods in bioinformatics: an introduction. **2005g:92001**
Fagerstrom, Richard M. *see* **Xu, Jian-Lun et al., 2005d:62159**
Fahrmeir, Ludwig *see* **Lang, Stefan[2] et al., (2005b:62008)**
Fang, Hong-Bin *see* **Tan, Ming et al.**
Fang, Ji-Qian *see* **Zhou, Xuyu et al., (2005c:62003)**
Farewell, Vern T. (*with* Tom, Brian D. M.; Royston, Patrick) The impact of dichotomization on the efficiency of testing for an interaction effect in exponential family models. (English summary)
Farrington, C. P. *see* **Whitaker, H. J.**
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Flournoy, N. *see* **Rabie, H. S., 2005h:62200**
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Freidlin, Boris *see* **Zheng, Gang[1] et al., 2005j:62016**
Frommer, Donald J. *see* **Lloyd, Chris J.**
Fu, Wenjiang J. Nonlinear GCV and quasi-GCV for shrinkage models. (English summary)
Fung, Wing Kam *see* **Yan, Xiting et al.**
Gamerman, Dani *see* **Cepeda, Edilberto C.**
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Geisser, Seymour *see* **Wang, Ming-Dauh**
Gelman, Andrew Exploratory data analysis for complex models. (English summary)
Ghitany, M. E. (*with* Al-Awadhi, Fahimah; Al-Awadhi, S. A.) Modeling the presence of long-term survivors using generalized Burr XII mixture model. (English summary)
Gillen, Daniel L. (*with* Emerson, Scott S.) Information growth in a family of weighted logrank statistics under repeated analyses. (English summary)
Glasser, Jay H. *see* **McGhee, Charles R. et al., (2005i:62004)**
Glidden, David V. *see* **Vittinghoff, Eric et al.**
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Gunn, L. H. *see* **Dunson, David B. et al.**
Gunn, Roger N. *see* **Aston, John A. D., 2005i:92006**
Gustafson, Paul ★ Measurement error and misclassification in statistics and epidemiology. **2005b:62146**
Gyllenberg, Mats (*with* Carlsson, Jonas; Koski, Timo) Bayesian network classification of binarized DNA fingerprinting patterns. (English summary) (*see* **2005d:92001**)
Han, Qui Hong *see* **Jia, Xin Gang, 2005m:92023**
Hanagal, David D. Parametric bivariate regression analysis based on censored samples: a Weibull model. (English summary)
Hanfelt, John J. *see* **Wang, Molin, 2005e:62041**
Haybach, G. *see* **Lang, Stefan[2] et al., (2005b:62008)**
Haykin, Simon (*with* Chen, Zhe[1]; Becker, Suzanna) Stochastic correlative learning algorithms. (English summary)
van der Heijden, Peter G. M. *see* **Zwane, E. N.**
Heimann, Günter (*with* Neuhaus, Georg) On the exact conditional distribution for Peto's combined test for carcinogenicity assays. (English summary) **2005h:62049**
Hein, Jotun (*with* Schierup, Mikkel H.; Wiuf, Carsten) ★ Gene genealogies, variation and evolution. **2005m:92021**
Henderson, Robin *see* **Barker, Peter Niel**
Heritier, Stéphane (*with* Ronchetti, Elvezio) Robust binary regression with continuous outcomes. (English and French summaries)
Herranz Tejedor, I. *see* **Martín Andrés, A.**
Hill, Jennifer Lynn (*with* Reiter, Jerome P.; Zanutto, Elaine L.) A comparison of experimental and observational data analyses. (*see* **2005m:62005**)
Hingley, P. J. Analytic estimator densities for common parameters under misspecified models. (English summary) **2005d:62013**
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Holloman, C. *see* **Dunson, David B. et al.**
Hommel, Gerhard *see* **Kropf, Siegfried**
Hsu, Yung-Feng (*with* Ting, Chao-Ping) A-optimal and efficient diallel cross experiments for comparing test treatments with a control. (English summary)
Hu, Fei Fang (*with* Zhang, Li Xin[1]) Asymptotic properties of doubly adaptive biased coin designs for multitreatment clinical trials. (English summary) **2005b:62166**
— *see also* **Tymofyeyev, Y. et al., (2005f:62009)**
Hu, Yue Qing (*with* Ma, Qing Hua[2]) Paternity determination with incomplete mother's genotype. (Chinese. English and Chinese summaries)
Huang, Xuelin *see* **Liu, Lei et al.**
Huber-Carol, Catherine (*with* Vonta, Filia) Semiparametric transformation models for arbitrarily censored and truncated data. (English summary) **2005g:62176**
— (*with* Vonta, Filia) Frailty models for arbitrarily censored and truncated data. (English summary)
Huzurbazar, Aparna V. Modelling survival data using flowgraph models. (*see* **2005a:62015**)
Ibrahim, Joseph G. (*with* Chen, Ming-Hui; Sinha, Debajyoti) Bayesian methods for joint modeling of longitudinal and survival data with applications to cancer vaccine trials. (English summary)
— *see also* **Chen, Ming-Hui et al.** *and* **Sinha, Debajyoti et al., (2005i:62004)**
Iglewicz, Boris *see* **Jiang, Qi et al.**
Imai, Kosuke (*with* van Dyk, David A.) Causal inference with general treatment regimes: generalizing the propensity score. (English summary)
Ivanov, Anatoliĭ Fedorovich (*with* Kazmerchuk, Y. I.; Svishchuk, A. V.) Theory, stochastic stability and applications of stochastic delay differential equations: a survey of results. (English summary) **2005e:60118**
Jacob, Christine (*with* Lalam, Nadia) Estimation of the offspring mean in a general single-type size-dependent branching process. (English summary) **2005c:60110**
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Jan, Show-Li (*with* Shieh, Gwowen) Nonparametric multiple test procedures for dose finding. (English summary)
Janssen, Paul *see* **Duchateau, Luc**
Jewell, Nicholas P. (*with* van der Laan, Mark J.) Case-control current status data. (English summary)
Jia, Xin Gang (*with* Han, Qui Hong) Joint genotypic probabilities in a structured population. (Chinese. English and Chinese summaries) **2005m:92023**
Jiang, Hongyu (*with* Fine, Jason P.; Kosorok, Michael R.; Chappell, Rick) Pseudo self-consistent estimation of a copula model with informative censoring. (English summary) **2005k:62228**
Jiang, Qi (*with* Snapinn, Steven; Iglewicz, Boris) Calculation of sample size in survival trials: the impact of informative noncompliance. (English summary)
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Jin, Xiaoping (*with* Carlin, Bradley P.) Multivariate parametric spatiotemporal models for county level breast cancer survival data. (English summary)
Joo, Jungnam (*with* Ahn, Hongshik; Delongchamp, Robert R.; Nowell, Susan A.; Lang, Nicholas P.) A mixture-of-genotypes model for the distribution of thermostable phenol sulfotransferase activity. (English summary)
Kakehashi, Masayuki *see* **Srinivasa Rao, Arni S. R.**
Karcz-Duleba, Iwona Time to the convergence of evolution in the space of population states. (English summary)
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Kazmerchuk, Y. I. *see* **Ivanov, Anatoliĭ Fedorovich et al., 2005e:60118**
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Kennedy, Nyongesa L. Multistage group testing procedure (group screening). (English summary)
Klein, John P. (*with* Wu, Jing-Tao) Discretizing a continuous covariate in survival studies. (*see* **2005a:62015**)
Knuth, Kevin H. *see* **Shah, Ankoor S. et al., (2005c:62004)**
Kokki, Esa ★ Spatial small area analyses of disease risk around sources of environmental pollution: modelling tools for a system using high resolution register data. (English summary) **2005a:62009**
Kong, Lan (*with* Cai, Jianwen; Sen, Pranab Kumar[1]) Weighted estimating equations for semiparametric transformation models with censored data from a case-cohort design. (English summary) **2005b:62074**
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Koti, Kallappa M. On estimating the gamma accelerated failure-time models. **2005j:62200**

Kotti, Vassiliki (*with* Rigas, A. G.) Improving the performance of a stochastic model by incorporating a non-linear term: application to a spiking biological system. (English summary)
Kragler, P. *see* **Lang, Stefan[2] et al.**, (2005b:62008)
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— (*with* Läuter, Jürgen; Eszlinger, Markus; Krohn, Knut; Paschke, Ralf) Nonparametric multiple test procedures with data-driven order of hypotheses and with weighted hypotheses. (English summary) **2005e:62069**
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Lang, Nicholas P. *see* **Joo, Jungnam et al.**
Lang, Stefan[2] (*with* Kragler, P.; Haybach, G.; Fahrmeir, Ludwig) Bayesian space-time analysis of health insurance data. (English summary) (*see* **2005b:62008**)
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Lee, Sik-Yum (*with* Song, Xin-Yuan) Maximum likelihood analysis of a general latent variable model with hierarchically mixed data. (English summary)
— *see also* **Tao, Jian et al.**
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Li, Chin-Shang (*with* Cheng, Cheng) Stable classification with applications to microarray data. (English summary)
Li, Qian H. (*with* Lagakos, Stephen W.) Comparisons of test statistics arising from marginal analyses of multivariate survival data. (English summary)
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Lin, Xun (*with* Wang, Hongkun) A new testing approach for comparing the overall homogeneity of survival curves. (English summary)
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McClure, John *see* **Wit, Ernst**, 2005k:62002
McCulloch, Charles E. *see* **Vittinghoff, Eric et al.**
McGhee, Charles R. (*with* Glasser, Jay H.; Chan, Wen-Yaw; Pomeroy, Nancy) Forecasting health care expenditures and utilization based on a Markov process and a deterministic cost function in managed care settings. (English summary) (*see* **2005i:62004**)
McNamee, R. Two-phase sampling for simultaneous prevalence estimation and case detection. (English summary)
McNamee, Rebecca L. *see* **Eddy, William F.**, (2005g:62004)
Mi, Jie *see* **Lu, Ying et al.**, 2005k:62233
Miyamoto, Nobuko (*with* Ohtsuka, Wataru; Tomizawa, Sadao) Linear diagonals-parameter symmetry and quasi-symmetry models for cumulative probabilities in square contingency tables with ordered categories. (English summary)
Moler, José A. (*with* Plo, Fernando; San Miguel Marco, Miguel) Adaptive designs and Robbins-Monro algorithm. (English summary) **2005m:62143**
Moreau, Thierry *see* **Broët, Philippe et al.**
Morton, Glenn *see* **Simons, Gordon et al.**
Motro, Uzi *see* **Yaniv, Osnat**
Müller, Peter[2] (*with* Parmigiani, Giovanni; Robert, Christian P.; Rousseau, Judith) Optimal sample size for multiple testing: the case of gene expression microarrays. (English summary)
Nagarajan, Radhakrishnan (*with* Aubin, Jane E.; Peterson, Charlotte A.) Modeling genetic networks from clonal analysis. (English summary)
Negrín-Hernández, M. A. *see* **Vázquez-Polo, Francisco José**
Neuhaus, Georg *see* **Heimann, Günter**, 2005h:62049
Nikulin, Mikhail S. *see* **Bagdonavičius, Vilijandas B. et al.**
Nowell, Susan A. *see* **Joo, Jungnam et al.**
O'Brien, Sean M. (*with* Dunson, David B.) Bayesian multivariate logistic regression. (English summary)
Ohtsuka, Wataru *see* **Miyamoto, Nobuko et al.**
Olshen, A. B. (*with* Cosman, P. C.; Rodrigo, A. G.; Bickel, Peter J.; Olshen, R. A.) Vector quantization of amino acids: analysis of the HIV V3 loop region. (English summary)
Olshen, R. A. *see* **Olshen, A. B. et al.**
Parmigiani, Giovanni *see* **Müller, Peter[2] et al.**
Paschke, Ralf *see* **Kropf, Siegfried et al.**, 2005e:62069
Paul, Sudhir R. Applications of the beta distribution. (*see* **2005j:62007**)
Peddada, Shyamal D. *see* **Conaway, Mark R. et al.**
Peng, Rong *see* **Wu, Ji Hua et al.**
Peng, Yahong[2] (*with* Little, Roderick J. A.; Raghunathan, Trivellore E.) An extended general location model for causal inferences from data subject to noncompliance and missing values. (English summary)
Peterson, Charlotte A. *see* **Nagarajan, Radhakrishnan et al.**
Petkau, A. John Optimal group sequential designs for the Anscombe-Colton model. (English summary) (*see* **2005m:62007**)
Pillonetto, Gianluigi (*with* Bell, Bradley M.) Deconvolution of non-stationary physical signals: a smooth variance model for insulin secretion rate. (English summary) **2005c:92011**
Plo, Fernando *see* **Moler, José A. et al.**, 2005m:62143
Pollice, Alessio *see* **Bilancia, Massimo**, (2005f:62007)
Pomeroy, Nancy *see* **McGhee, Charles R. et al.**, (2005i:62004)
Prorok, Philip C. *see* **Xu, Jian-Lun et al.**, 2005d:62159
Pustyl'nikov, L. D. *see* **Dress, Andreas W. M. et al.**, 2005k:60029
Qaqish, Bahjat F. *see* **Lee, Ji-Hyun**
Qian, Minping *see* **Yan, Xiting et al.**
Qin, Gengsheng *see* **Zhou, Xiao-Hua et al.**, 2005a:62080
Qiu, Zhenguo *see* **Song, Peter X.-K. et al.**
Rabie, H. S. (*with* Flournoy, N.) Optimal designs for contingent response models. (English summary) **2005h:62200**
Raghunathan, Trivellore E. *see* **Peng, Yahong[2] et al.**
Rahbar, M. H. (*with* Gardiner, J. C.) Nonparametric modeling of the mean survival time in a multi-factor design based on randomly right-censored data. (English summary)
Redline, Susan *see* **Wang, Molin et al.**
Reiter, Jerome P. *see* **Hill, Jennifer Lynn et al.**, (2005m:62005)
Rigas, A. G. *see* **Kotti, Vassiliki**
Robert, Christian P. *see* **Müller, Peter[2] et al.**
Rodrigo, A. G. *see* **Olshen, A. B. et al.**
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Ronchetti, Elvezio *see* **Heritier, Stéphane**
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Rousseau, Judith *see* **Müller, Peter[2] et al.**
Royston, Patrick *see* **Farewell, Vern T. et al.**
Rukhin, Andrew L. Two procedures of meta-analysis in clinical trials and interlaboratory studies. (English summary) **2005a:62072**
Saftenku, E. É. Modeling of slow glutamate diffusion and AMPA receptor activation in the cerebellar glomerulus. (English summary)
Sampson, Allan R. *see* **Yothers, Greg**, (2005h:62008)
Sandler, Howard M. *see* **Yu, Menggang et al.**
San Miguel Marco, Miguel *see* **Moler, José A. et al.**, 2005m:62143
Scharfstein, Daniel O. *see* **Lin, Haiqun et al.**
Schaubel, Douglas E. (*with* Cai, Jianwen) Regression methods for gap time hazard functions of sequentially ordered multivariate failure time data. (English summary) **2005e:62134**
— *see also* **Cai, Jianwen**, 2005c:62056
Schierup, Mikkel H. *see* **Hein, Jotun et al.**, 2005m:92021
Schnute, Jon T. Mathematics and fisheries: match or mismatch? (English summary)
Schroeder, Charles E. *see* **Shah, Ankoor S. et al.**, (2005c:62004)
Schubert, W. *see* **Dress, Andreas W. M. et al.**, 2005k:60029
Schuster, Ernst (*with* Kropf, Siegfried; Roeder, Ingo) Micro array based gene expression analysis using parametric multivariate tests per gene—a generalized application of multiple procedures with data-driven order of hypotheses. (English summary)
Sen, Kanwar (*with* Srivastava, P. W.) Testing exponentiality against new better than used of specified age with randomly right censored data. (English summary) **2005b:62211**
Sen, Pranab Kumar[1] *see* **Kong, Lan et al.**, 2005b:62074
Shah, Ankoor S. (*with* Knuth, Kevin H.; Lakatos, Peter; Schroeder, Charles E.) Applying differentially variable component analysis (dVCA) to event-related potentials. (English summary) (*see* **2005c:62004**)
Shestakov, O. V. Algebraic methods for reconstructing the probability characteristics of multidimensional random functions. (Russian. Russian summary) **2005j:62121**
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Shiboski, Stephen C. *see* **Vittinghoff, Eric et al.**
Shieh, Gwowen *see* **Jan, Show-Li**
Shih, Mei-Chiung *see* **Lai, Tze Leung**, 2005c:62139
Shmilovici, Armin (*with* Ben-Gal, Irad) Using a compressibility measure to distinguish coding and noncoding DNA. (English summary)
Shorter, Paula A. *see* **Keenan, Daniel M.**, 2005b:92021
Shum, Matthew *see* **Crawford, Gregory S.**, 2005m:91042

Siannis, Fotios Applications of a parametric model for informative censoring. (English summary)
Simons, Gordon (*with* Yao, Yi-Ching; Morton, Glenn) Global Markov models for eukaryote nucleotide data. (English summary)
Sinha, Debajyoti (*with* Chen, Ming-Hui; Ibrahim, Joseph G.) Bayesian inference for survival data with a surviving fraction. (English summary) (*see* **2005i:62004**)
— *see also* **Chen, Ming-Hui et al.** *and* **Ibrahim, Joseph G. et al.**
Sjögren, Niclas (*with* Guilbaud, Olivier) Comparison of within-subject covariance matrices in 2×2 crossover trials with multivariate response. (English summary)
Snapinn, Steven *see* **Jiang, Qi et al.**
Song, Peter X.-K. (*with* Qiu, Zhenguo; Tan, Ming) Modelling heterogeneous dispersion in marginal models for longitudinal proportional data. (English summary)
Song, Xin-Yuan *see* **Lee, Sik-Yum**
Srinivasa Rao, Arni S. R. (*with* Kakehashi, Masayuki) Incubation-time distribution in back-calculation applied to HIV/AIDS data in India. (English summary)
Srivastava, P. W. *see* **Sen, Kanwar, 2005b:62211**
Stollenwerk, Nico Criticality in epidemics: the mathematics of sandpiles explains uncertainty in epidemic outbreaks. (*see* **2005f:60007**)
Strassburger, Klaus (*with* Bretz, Frank; Hochberg, Yosef) Compatible confidence intervals for intersection union tests involving two hypotheses. (English summary) (*see* **2005i:62006**)
Sun, Jianguo (*with* Lim, Hee-Jeong; Zhao, Xingqiu) An independence test for doubly censored failure time data. (English summary) **2005f:62153**
Sun, Zhi Hua *see* **Wu, Ji Hua et al.**
Svishchuk, A. V. *see* **Ivanov, Anatoliĭ Fedorovich et al., 2005e:60118**
Szczesny, A. *see* **Ernst, Chris M. et al., (2005b:62008)**
Tamhane, Ajit C. *see* **Logan, Brent R., (2005i:62006)**
Tan, Ming (*with* Fang, Hong-Bin; Tian, Guo-Liang; Wei, Gang[1]) Testing multivariate normality in incomplete data of small sample size. (English summary)
— *see also* **Song, Peter X.-K. et al.**
Tao, Jian (*with* Shi, Ning-Zhong; Lee, Sik-Yum) Drug risk assessment with determining the number of sub-populations under finite mixture normal models. (English summary)
Taylor, Jeremy M. G. *see* **Yu, Menggang et al.**
Tian, Guo-Liang *see* **Tan, Ming et al.**
Ting, Chao-Ping *see* **Hsu, Yung-Feng**
Tom, Brian D. M. *see* **Farewell, Vern T. et al.**
Tomizawa, Sadao *see* **Miyamoto, Nobuko et al.**
Tsao, Min *see* **Zhou, Xiao-Hua et al., 2005a:62080**
Tsodikov, Alexander D. *see* **Broët, Philippe et al.** *and* **Boucher, Kenneth M. et al., (2005d:62008)**
Tymofyeyev, Y. (*with* Rosenberger, W. F.; Hu, Fei Fang) Asymptotic properties of urn designs for three-arm clinical trials. (English summary) (*see* **2005f:62009**)
Vaisman, Iosif I. Statistical and computational geometry of biomolecular structure. (*see* **2005g:62004**)
Vázquez-Polo, Francisco José (*with* Negrín-Hernández, M. A.) Incorporating patients' characteristics in cost-effectiveness studies with clinical trial data: a flexible Bayesian approach. (English and Catalan summaries)
Villa, Alessandro E. P. *see* **Celletti, Alessandra, (2005d:92001)**
Vittinghoff, Eric (*with* Glidden, David V.; Shiboski, Stephen C.; McCulloch, Charles E.) ★ Regression methods in biostatistics.
Vonta, Filia *see* **Huber-Carol, Catherine, 2005g:62176**
Waller, Lance A. (*with* Gotway, Carol A.) ★ Applied spatial statistics for public health data. **2005a:62013**
Wang, Hongkun *see* **Lin, Xun**
Wang, Ming-Dauh (*with* Geisser, Seymour) Optimal dichotomization of screening test variables. (English summary)
Wang, Molin (*with* Hanfelt, John J.) Adjusted profile estimating function. (English summary) **2005e:62041**
— (*with* Williamson, John M.[2]; Redline, Susan) A semiparametric method for analyzing matched case-control family studies with a continuous outcome and proband sampling. (English summary)
Wang, Naisyin *see* **Liang, Hua, 2005m:62056**
Wang, Weijing *see* **Ding, A. Adam, 2005a:62115**
Wang, Xiaodong[2] *see* **Zhou, Xiaobo et al.**
Wang, You-Gan Estimation of growth parameters from multiple-recapture data. (English summary)
Wei, Gang[1] *see* **Tan, Ming et al.**
Wellek, Stefan Tests for establishing compatibility of an observed genotype distribution with Hardy-Weinberg equilibrium in the case of a biallelic locus. (English summary)
Whitaker, H. J. (*with* Farrington, C. P.) Infections with varying contact rates: applications to varicella. (English summary)
Wikan, Arild Dynamical consequences of harvest in discrete age-structured population models. (English summary) **2005f:92026**
Williamson, John M.[2] *see* **Wang, Molin et al.**
Wit, Ernst (*with* McClure, John) ★ Statistics for microarrays. **2005k:62002**
Wiuf, Carsten *see* **Hein, Jotun et al., 2005m:92021**
Wolfe, Robert A. *see* **Liu, Lei et al.**
Wu, Dane W. The relative attributable risk for stratification of n factors: some applications of conditional probability. (English summary) **2005d:92024**
Wu, Ji Hua (*with* Xie, Min Yu; Peng, Rong; Sun, Zhi Hua) Goodness-of-fit test with genetic background. (English summary)
Wu, Jing-Tao *see* **Klein, John P., (2005a:62015)**
Wu, Ke[3] Estimating the convolution of distributions under the Koziol-Green model of random censorship. (English summary) **2005c:62178**
Xie, Huimin *see* **Zhou, Chan**
Xie, Min Yu *see* **Wu, Ji Hua et al.**
Xie, Tian Fa (*with* Zhang, Zhong Zhan) Identifiability of models for clinical trials with noncompliance. (English summary)
Xu, Jian-Lun (*with* Fagerstrom, Richard M.; Prorok, Philip C.; Kramer, Barnett S.) Estimating the cumulative risk of a false-positive test in a repeated screening program. (English summary) **2005d:62159**
Xu, Zongli *see* **Zhou, Xuyu et al., (2005c:62003)**
Yakovlev, Andrei Yur'evich *see* **Boucher, Kenneth M. et al., (2005d:62008)**
Yan, Xiting (*with* Deng, Minghua; Fung, Wing Kam; Qian, Minping) Detecting differentially expressed genes by relative entropy. (English summary)
Yaniv, Osnat (*with* Motro, Uzi) Time-dependent animal conflicts. I. The symmetric case. (English summary)
— (*with* Motro, Uzi) Time-dependent animal conflicts. II. The asymmetric case. (English summary)
Yao, Yi-Ching *see* **Simons, Gordon et al.**
Yashin, Anatoli I. Semiparametric models in the studies of aging and longevity. (English summary) (*see* **2005d:62008**)
Ying, Zhiliang *see* **Lu, Wenbin, 2005c:62063**
Yip, Paul S. F. *see* **Liu, Li Ping[4], 2005f:62016**
Yothers, Greg (*with* Sampson, Allan R.) Inference guided data exploration. (English summary) (*see* **2005h:62008**)
Yu, Chuanhua *see* **Zhou, Xuyu et al., (2005c:62003)**
Yu, Menggang (*with* Law, Ngayee J.; Taylor, Jeremy M. G.; Sandler, Howard M.) Joint longitudinal-survival-cure models and their application to prostate cancer. (English summary)
Zanutto, Elaine L. *see* **Hill, Jennifer Lynn et al., (2005m:62005)**
Zdorova-Cheminade, Olga *see* **Bagdonavičius, Vilijandas B. et al.**
Zhang, Junni L. Causal inference with instrumental variables. (*see* **2005m:62005**)
Zhang, Li Xin[1] *see* **Hu, Fei Fang, 2005b:62166**
Zhang, Zhong Zhan *see* **Xie, Tian Fa**
Zhao, Guo Long (*with* Du, Shi Jun) A summary chi-square test of the non-null hypothesis. (Chinese. English and Chinese summaries) **2005h:62066**
Zhao, Shoujun *see* **Lu, Ying, (2005c:62003)**
Zhao, Xingqiu *see* **Sun, Jianguo et al., 2005f:62153**
Zheng, Gang[1] Maximizing a family of optimal statistics over a nuisance parameter with applications to genetic data analysis. (English summary)
— (*with* Freidlin, Boris; Gastwirth, Joseph L.) Using Kullback-Leibler information for model selection when the data-generating model is unknown: applications to genetic testing problems. (English summary) **2005j:62016**
Zhou, Chan (*with* Xie, Huimin) Exact distribution of the occurrence number for K-tuples over an alphabet of non-equal probability letters. (English summary)
Zhou, Xiao-Hua (*with* Tsao, Min; Qin, Gengsheng) New intervals for the difference between two independent binomial proportions. (English summary) **2005a:62080**
Zhou, Xiaobo (*with* Wang, Xiaodong[2]; Dougherty, Edward R.) Gene selection using logistic regressions based on AIC, BIC and MDL criteria. (English summary)
Zhou, Xuyu (*with* Fang, Ji-Qian; Yu, Chuanhua; Xu, Zongli; Lu, Ying) Meta-analysis. (English summary) (*see* **2005c:62003**)
Zwane, E. N. (*with* van der Heijden, Peter G. M.) Semiparametric models for capture-recapture studies with covariates. (English summary)

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Abbott, Geoffrey D. *see* **Whyte, Jason M. et al., (2005a:62014)**
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Alfò, Marco (*with* Vitiello, Cecilia) Finite mixtures approach to ecological regression. (English summary)
Andersen, Per K. *see* **Nielsen, Jens Perch et al.**
Angelocci, Luiz Roberto *see* **Bautista, Ezequiel Abraham López et al.**
Antonucci, Alessandro (*with* Salvetti, Andrea; Zaffalon, Marco) Assessing debris flow hazard by credal nets. (*see* **2005i:62007**)
Baba, Yasumasa *see* **Nakamura, Takahiro et al.**
Bautista, Ezequiel Abraham López (*with* Zocchi, Silvio Sandoval; Angelocci, Luiz Roberto) Fitting the generalized extreme value distribution to maximum wind speed data in Piracicaba, São Paulo, Brazil. (Portuguese. English and Portuguese summaries)
(Besag, Julian) *see* **Penttinen, Antti et al., (2005b:62009)**
Caswell, Hal Sensitivity analysis of the stochastic growth rate: three extensions. (English summary)
Chiogna, Monica (*with* Gaetan, Carlo) Mortality and air pollution in Philadelphia: A dynamic generalized linear modelling approach. (English summary) (*see* **2005f:62007**)
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Cripps, Edward (*with* Nott, David J.; Dunsmuir, William T. M.; Wikle, Christopher K.) Space-time modelling of Sydney Harbour winds. (English summary)
Di Battista, Tonio (*with* Fontanella, Lara; Ippoliti, Luigi) Conditional simulation in dynamic linear models for spatial and temporal predictions of diffusive phenomena. (English summary)
— (*with* Gattone, Stefano Antonio) Simultaneous inference on diversity of biological communities. (English summary)
Divino, Fabio *see* **Penttinen, Antti et al., (2005b:62009)**
Dunsmuir, William T. M. *see* **Cripps, Edward et al.**
Fernández-Álvarez, J. Paulino (*with* Fernández-Martínez, Juan Luis; Menéndez-Pérez, C. Omar) A posteriori inference of model parameters in a geophysical inverse problem using GA. (*see* **2005i:62007**)
Fernández-Martínez, Juan Luis *see* **Fernández-Álvarez, J. Paulino et al., (2005i:62007)**
Fontanella, Lara *see* **Di Battista, Tonio et al.**
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Grillenzoni, Carlo Non-parametric smoothing of spatio-temporal point processes. (English summary)
Haario, H. (*with* Laine, M.; Lehtinen, Markku S.; Saksman, Eero; Tamminen, J.) Markov chain Monte Carlo methods for high dimensional inversion in remote sensing. (English summary)
Held, Hermann *see* **Kriegler, Elmar, 2005k:62249**

Henderson, Daniel J. (*with* Millimet, Daniel L.) Environmental regulation and US state-level production. (English summary)
Hu, Hong Ying *see* **Nakamura, Takahiro et al.**
Ippoliti, Luigi *see* **Di Battista, Tonio et al.**
Jawed Iqbal, M. (*with* Quamar, Jawaid) Nature of the processes responsible for rainfall variability. (English summary)
Jensen, Henrik *see* **Nielsen, Jens Perch et al.**
Kanda, Jun (*with* Nishijima, Kazuyoshi) Multi-site wind and earthquake hazard analyis via multivariate extreme value distributions. (Japanese. English and Japanese summaries) **2005h:62293**
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Laine, M. *see* **Haario, H. et al.**
Lehtinen, Markku S. *see* **Haario, H. et al.**
Machado, Ulla (*with* Rychlik, Igor) Wave statistics in non-linear random sea. (English summary)
Mantovan, Pietro (*with* Pastore, Andrea) Flexible dynamic regression models for real-time forecasting of air pollutant concentration. (English summary) (*see* **2005f:62007**)
Marques, Tiago A. Predicting and correcting bias caused by measurement error in line transect sampling using multiplicative error models. (English summary)
Menéndez-Pérez, C. Omar *see* **Fernández-Álvarez, J. Paulino et al.**, (**2005i:62007**)
Metcalfe, Andrew V. *see* **Whyte, Jason M. et al.**, (**2005a:62014**)
Millimet, Daniel L. *see* **Henderson, Daniel J.**
Möls, Tõnu (*with* Tuul, Marek) Differential and integral transformations of parametric functions in biometry. (English summary)
Nakamura, Takahiro (*with* Hu, Hong Ying; Fujie, Koichi; Baba, Yasumasa) Screening of quinone profile data using cluster analysis. (Japanese. English and Japanese summaries)
Nielsen, Jens Perch (*with* Jensen, Henrik; Andersen, Per K.) Creating a reference to a complex emergency situation using time series methods: war in Guinea-Bissau 1998–1999. (English summary)
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Nott, David J. *see* **Cripps, Edward et al.**
Pastore, Andrea *see* **Mantovan, Pietro**, (**2005f:62007**)
Pearce, Charles E. M. *see* **Whyte, Jason M. et al.**, (**2005a:62014**)
Penttinen, Antti (*with* Divino, Fabio; Riiali, Anne) Spatial hierarchical Bayesian models in ecological applications. (*see* **2005b:62009**)
Piegorsch, Walter W. (*with* Simmons, Susan J.; Zeiger, Errol) Data mining potency estimators from toxicological databases. (English summary)
Pu, Yan Quantile regression analysis in structure-activity relationship of environment science. (Chinese. English and Chinese summaries) **2005m:62196**
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Riiali, Anne *see* **Penttinen, Antti et al.**, (**2005b:62009**)
de Rooij, Gerrit H. (*with* Stagnitti, Frank) Applications of the beta distribution in soil science. (*see* **2005j:62007**)
Rotondi, Renata (*with* Varini, Elisa) Bayesian analysis of a marked point process: application in seismic hazard assessment. (English summary)
Rychlik, Igor *see* **Machado, Ulla**
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Stagnitti, Frank *see* **de Rooij, Gerrit H.**, (**2005j:62007**)
Stollenwerk, Nico Criticality in epidemics: the mathematics of sandpiles explains uncertainty in epidemic outbreaks. (*see* **2005f:60007**)
Strigunova, M. S. (*with* Shurygin, A. M.) Scalar multiplication of matrices with a sliding window, and earthquake prediction. (Russian. Russian summary)
Subba Rao, T. (*with* Costa Antunes, Ana Monica) Spatio-temporal modelling of temperature time series: a comparative study. (English summary) (*see* **2005g:62005**)
Sugden, Mark A. *see* **Whyte, Jason M. et al.**, (**2005a:62014**)
Takanashi, Hirokazu A procedure for statistical evaluation of Ames *Salmonella* mutagenicity assay results based on two-sample t-test. (Japanese. English and Japanese summaries)
Tamminen, J. *see* **Haario, H. et al.**
(Tantrum, Jeremy) *see* **Penttinen, Antti et al.**, (**2005b:62009**)
Tuul, Marek *see* **Möls, Tõnu**
Varini, Elisa *see* **Rotondi, Renata**
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de Wet, T. Statistical adjustment of tidal gauge data. (English summary)
Whyte, Jason M. (*with* Sugden, Mark A.; Abbott, Geoffrey D.; Metcalfe, Andrew V.; Pearce, Charles E. M.) Estimation of parameters in pyrolysis kinetics. (English summary) (*see* **2005a:62014**)
Wikle, Christopher K. *see* **Cripps, Edward et al.**
Zaffalon, Marco *see* **Antonucci, Alessandro et al.**, (**2005i:62007**)
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van Zwet, Erik W. Laslett's line segment problem. (English summary) **2005b:62222**

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Álvarez, Giselle *see* **Rodríguez, Abel et al.**, **2005e:62011**
Anevski, Dragi Estimating the derivative of a convex density. (English summary) **2005f:62059**
Azad, Rajeev K. (*with* Subba Rao, J.; Ramaswamy, Ramakrishna) Symbol sequence analysis of climatic time signals. (English summary) **2005a:86019**
Berger, James O. (*with* De Oliveira, Victor; Sansó, Bruno; Ren, Cuirong; Wittig, Timothy A.) Correction: "Objective Bayesian analysis of spatially correlated data" [J. Amer. Statist. Assoc. **96** (2001), no. 456, 1361–1374; MR1946582 (2003j:62088)]. **2005a:62138**
Beron, Kurt J. (*with* Hanson, Yaw; Murdoch, James C.; Thayer, Mark A.) Hedonic price functions and spatial dependence: implications for the demand for urban air quality. (*see* **2005g:62003**)
Bockstael, Nancy *see* **Irwin, Elena**, (**2005g:62003**)
Christensen, Ole F. Monte Carlo maximum likelihood in model-based geostatistics. (English summary)
Cotos-Yáñez, T. R. (*with* González-Manteiga, Wenceslao; Prada-Sánchez, J. M.) Prediction with additive models—simulation and application with real data. (English summary)
Cressie, Noel (*with* Richardson, Sylvia; Jaussent, Isabelle) Ecological bias: use of maximum-entropy approximations. (English summary)
Darwis, Sutawanir On the use of updating technique in grade estimation. (English summary)
De Oliveira, Victor *see* **Berger, James O. et al.**, **2005a:62138**
Dette, Holger On robust and efficient designs for risk estimation in epidemiological studies. (English summary) **2005c:62196**
Ding, Chun Lei *see* **Liu, Jia Kun et al.**, **2005i:62136**
Eliste, Paavo (*with* Fredriksson, Per G.) Does trade liberalization cause a race-to-the-bottom in environmental policies? A spatial econometric analysis. (*see* **2005g:62003**)
Engen, Steinar (*with* Lande, Russell; Sæther, Bernt-Erik; Weimerskirch, Henri) Extinction in relation to demographic and environmental stochasticity in age-structured models. (English summary) **2005m:92034**
Fagiolo, Giorgio (*with* Marengo, Luigi; Valente, Marco) Endogenous networks in random population games. (English summary) **2005b:91034**
Fernández-Durán, Juan-José Modelling ground-level ozone concentration using copulas. (English summary) (*see* **2005c:62004**)
Fredriksson, Per G. *see* **Eliste, Paavo**, (**2005g:62003**)
Fu, Wenjiang J. Nonlinear GCV and quasi-GCV for shrinkage models. (English summary)
González-Manteiga, Wenceslao *see* **Cotos-Yáñez, T. R. et al.**
Gotway, Carol A. *see* **Waller, Lance A.**, **2005a:62013**
Granat, Robert A. A method of hidden Markov model optimization for use with geophysical data sets. (English summary) **2005g:86002**
Hanson, Yaw *see* **Beron, Kurt J. et al.**, (**2005g:62003**)
Harner, E. James *see* **Misra, Neeraj et al.**, **2005a:60028**
Heffernan, Janet E. (*with* Tawn, Jonathan A.) A conditional approach for multivariate extreme values. (English summary)
Hudson, H. Malcolm *see* **Warton, David**, (**2005a:62014**)
Ioannides, Yannis M. Economic geography and the spatial evolution of wages in the United States. (*see* **2005g:62003**)
Irwin, Elena (*with* Bockstael, Nancy) Endogenous spatial externalities: empirical evidence and implications for the evolution of exurban residential land use patterns. (*see* **2005g:62003**)
Iwasa, Yoh *see* **Schlicht, Robert**
Jaussent, Isabelle *see* **Cressie, Noel et al.**
Kanevski, Mikhail (*with* Maignan, Michel) ★ Analysis and modelling of spatial environmental data. **2005d:62005**
Kurihara, Koji (*with* Ono, Yoshiro) Relationships between polycyclic aromatic hydrocarbons and environmental factors. (Japanese. English and Japanese summaries)
Lande, Russell *see* **Engen, Steinar et al.**, **2005m:92034**
Liu, Jia Kun (*with* Ding, Chun Lei; Wang, Gong Shu) Statistical test for efficiency of prediction methods. (Chinese. English and Chinese summaries) **2005i:62136**
Liu, Li Ping[4] (*with* Yip, Paul S. F.) Proportional trapping-removal models with contaminated data. (English summary) **2005f:62016**
Maignan, Michel *see* **Kanevski, Mikhail**, **2005d:62005**
Marengo, Luigi *see* **Fagiolo, Giorgio et al.**, **2005b:91034**
McDonald, John F. *see* **McMillen, Daniel P.**, (**2005g:62003**)
McMillen, Daniel P. (*with* McDonald, John F.) Locally weighted maximum likelihood estimation: Monte Carlo evidence and an application. (*see* **2005g:62003**)
Misra, Neeraj (*with* Singh, Harshinder; Harner, E. James) Stochastic comparisons of Poisson and binomial random variables with their mixtures. (English summary) **2005a:60028**
Murdoch, James C. *see* **Beron, Kurt J. et al.**, (**2005g:62003**)
Ono, Yoshiro *see* **Yamamoto, Takashi**[1] **et al.** *and* **Kurihara, Koji**
Prada-Sánchez, J. M. *see* **Cotos-Yáñez, T. R. et al.**
Ramaswamy, Ramakrishna *see* **Azad, Rajeev K. et al.**, **2005a:86019**
Ren, Cuirong *see* **Berger, James O. et al.**, **2005a:62138**
Richardson, Sylvia *see* **Cressie, Noel et al.**
Rodríguez, Abel (*with* Álvarez, Giselle; Sansó, Bruno) Objective Bayesian comparison of Laplace samples from geophysical data. (English summary) **2005e:62011**
Sæther, Bernt-Erik *see* **Engen, Steinar et al.**, **2005m:92034**
Sansó, Bruno *see* **Berger, James O. et al.**, **2005a:62138** *and* **Rodríguez, Abel et al.**, **2005e:62011**
Schlicht, Robert (*with* Iwasa, Yoh) Forest gap dynamics and the Ising model. (English summary)
Sekiguchi, Motochika *see* **Yamamoto, Takashi**[1] **et al.**
Singh, Harshinder *see* **Misra, Neeraj et al.**, **2005a:60028**
Smith, Robert J. (*with* Wolkowicz, Gail S. K.) Analysis of a model of the nutrient driven self-cycling fermentation process. (English summary) **2005a:92050**
Subba Rao, J. *see* **Azad, Rajeev K. et al.**, **2005a:86019**
Tawn, Jonathan A. *see* **Heffernan, Janet E.**
Thayer, Mark A. *see* **Beron, Kurt J. et al.**, (**2005g:62003**)
Valente, Marco *see* **Fagiolo, Giorgio et al.**, **2005b:91034**
Waller, Lance A. (*with* Gotway, Carol A.) ★ Applied spatial statistics for public health data. **2005a:62013**
Wang, Gong Shu *see* **Liu, Jia Kun et al.**, **2005i:62136**
Warton, David (*with* Hudson, H. Malcolm) Hypothesis testing of multivariate abundance data. (English summary) (*see* **2005a:62014**)
Weimerskirch, Henri *see* **Engen, Steinar et al.**, **2005m:92034**
Wittig, Timothy A. *see* **Berger, James O. et al.**, **2005a:62138**
Wolkowicz, Gail S. K. *see* **Smith, Robert J.**, **2005a:92050**
Yamamoto, Takashi[1] (*with* Sekiguchi, Motochika; Ono, Yoshiro) Distribution of polycyclic aromatic hydrocarbon concentration in roadside *Azalea* leaves. (Japanese.

English and Japanese summaries)
Yip, Paul S. F. *see* **Liu, Li Ping[4], 2005f:62016**

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Alanen, Erkki (*with* Leskinen, Esko) A note on alternative parameterizations of a model for evaluating agreement between two tests. (English summary)
Allerup, Peter Gender differences in mathematics achievement. (English summary) (*see* **2005b:62010**)
Barreto, Maria Cecília Mendes (*with* Pierre, Monica Regina Santa Rosa; Del Prette, Zilda Aparecida Pereira; Del Prette, Almir) Social skills of college students: a comparative study. (Portuguese. English and Portuguese summaries)
Blundell, Richard W. (*with* Dearden, Lorraine; Sianesi, Barbara) Evaluating the effect of education on earnings: models, methods and results from the National Child Development Survey. (English summary)
Böckenholt, Ulf (*with* Kamakura, Wagner A.; Wedel, Michel) The structure of self-reported emotional experiences: a mixed-effects Poisson factor model. (English summary)
Chang, Hua-Hua *see* **Yi, Qing**
Dearden, Lorraine *see* **Blundell, Richard W. et al.**
Del Prette, Almir *see* **Barreto, Maria Cecília Mendes et al.**
Del Prette, Zilda Aparecida Pereira *see* **Barreto, Maria Cecília Mendes et al.**
Dolan, Conor V. *see* **Lubke, Gitta H. et al.**
Draney, Karen *see* **Wilson, Mark R., (2005b:62010)**
Fung, Wing Kam *see* **Yuan, Ke-Hai et al.**
Ganter, Bernhard *see* **Krolak-Schwerdt, S., (2005b:62008)**
García-Pérez, Miguel A. (*with* Núñez-Antón, Vicente) On the chi-square approximation to the exact distribution of goodness-of-fit statistics in multinomial models with composite hypotheses. (English summary)
Ghilardi, G. (*with* Orsini, N.) Random intercept linear models and estimators for the evaluation of educational systems. (Italian. English and Italian summaries)
Hoshino, Takahiro A latent variable model with non-ignorable missing data. (English summary)
Kamakura, Wagner A. *see* **Böckenholt, Ulf et al.**
Keef, Stephen P. (*with* Roberts, Leigh A.) The meta-analysis of partial effect sizes. (English summary)
Kelderman, Henk *see* **Lubke, Gitta H. et al.**
Knuth, Kevin H. *see* **Shah, Ankoor S. et al., (2005c:62004)**
Krolak-Schwerdt, S. (*with* Ganter, Bernhard) Cognitive organization of person attributes: measurement procedures and statistical models. (English summary) (*see* **2005b:62008**)
Lakatos, Peter *see* **Shah, Ankoor S. et al., (2005c:62004)**
Leskinen, Esko *see* **Alanen, Erkki**
Lubke, Gitta H. (*with* Dolan, Conor V.; Kelderman, Henk; Mellenbergh, Gideon J.) Weak measurement invariance with respect to unmeasured variables: an implication of strict factorial invariance. (English summary)
Mellenbergh, Gideon J. *see* **Lubke, Gitta H. et al.**
Núñez-Antón, Vicente *see* **García-Pérez, Miguel A.**
Okada, Akinori Using additive conjoint measurement in analysis of social network data. (English summary) (*see* **2005b:62008**)
Orsini, N. *see* **Ghilardi, G.**
Pierre, Monica Regina Santa Rosa *see* **Barreto, Maria Cecília Mendes et al.**
Reise, Steven P. *see* **Yuan, Ke-Hai et al.**
Roberts, Leigh A. *see* **Keef, Stephen P.**
Schroeder, Charles E. *see* **Shah, Ankoor S. et al., (2005c:62004)**
Shah, Ankoor S. (*with* Knuth, Kevin H.; Lakatos, Peter; Schroeder, Charles E.) Applying differentially variable component analysis (dVCA) to event-related potentials. (English summary) (*see* **2005c:62004**)
Sianesi, Barbara *see* **Blundell, Richard W. et al.**
Takane, Yoshio Matrices with special reference to applications in psychometrics. (English summary)
Thomas, Neal Designs producing balanced missing data: examples from the National Assessment of Educational Progress. (*see* **2005m:62005**)
Wedel, Michel *see* **Böckenholt, Ulf et al.**
Wilson, Mark R. (*with* Draney, Karen) A technique for setting standards and maintaining them over time. (English summary) (*see* **2005b:62010**)
Yi, Qing (*with* Chang, Hua-Hua) α-stratified CAT design with content blocking. (English summary)
Yuan, Ke-Hai (*with* Fung, Wing Kam; Reise, Steven P.) Three Mahalanobis distances and their role in assessing unidimensionality. (English summary)

Items with secondary classifications in 62P15

Baker, Frank B. (*with* Kim, Seock-Ho) ★ Item response theory. **2005c:62002**
Bathke, Arne Testing monotone effects of covariates in nonparametric mixed models. (English summary) **2005j:62092**
Bijleveld, Catrien *see* **Van Montfort, Kees**
Cazes, Pierre *see* **Moreau, Jean et al., (2005m:62006)**
Chechile, Richard A. New multinomial models for the Chechile-Meyer task. (English summary) **2005h:91186**
Chouanière, Dominique *see* **Grzebyk, Michel et al., 2005e:62102**
Debnath, R. (*with* Takahide, N.; Takahashi, Haruhisa) A decision based one-against-one method for multi-class support vector machine. (English summary)
Doudin, Pierre-André *see* **Moreau, Jean et al., (2005m:62006)**
(Fechner, Gustav Theodor) *see* **Sheĭnin, O. B.**
Femia Marzo, P. *see* **Martín Andrés, A.**
Grzebyk, Michel (*with* Wild, Pascal; Chouanière, Dominique) On identification of multi-factor models with correlated residuals. (English summary) **2005e:62102**
He, Jiping *see* **Zhu, Liqiang et al., 2005k:92019**
Hiddleston, Eric Causal powers. (English summary)
Hoppensteadt, Frank C. *see* **Zhu, Liqiang et al., 2005k:92019**
Karabatsos, George The exchangeable multinomial model as an approach to testing deterministic axioms of choice and measurement. (English summary)
Kim, Seock-Ho *see* **Baker, Frank B., 2005c:62002**
Lai, Ying-Cheng *see* **Zhu, Liqiang et al., 2005k:92019**
Lee, Michael D. A Bayesian analysis of retention functions. (English summary)
Lee, Sik-Yum (*with* Song, Xin-Yuan) Bayesian model comparison of nonlinear structural equation models with missing continuous and ordinal categorical data. (English summary)
— *see also* Song, Xin-Yuan
Martín Andrés, A. (*with* Femia Marzo, P.) Delta: a new measure of agreement between two raters. (English summary)
Maydeu-Olivares, Albert Limited information estimation and testing of Thurstonian models for preference data. (English summary)
Moreau, Jean (*with* Doudin, Pierre-André; Cazes, Pierre) Étude de la variabilité intra-individuelle par l'analyse des correspondances. [Study of intra-individual variability by correspondence analysis] (*see* **2005m:62006**)
Raykov, Tenko Estimation of maximal reliability: a note on a covariance structure modelling approach. (English summary)
Sheĭnin, O. B. Fechner as a statistician. (English summary)
Song, Xin-Yuan (*with* Lee, Sik-Yum) Bayesian analysis of two-level nonlinear structural equation models with continuous and polytomous data. (English summary)
— *see also* Lee, Sik-Yum
Takahashi, Haruhisa *see* **Debnath, R. et al.**
Takahide, N. *see* **Debnath, R. et al.**
Tortorella, Francesco Reducing the classification cost of support vector classifiers through an ROC-based reject rule. (English summary)
Van Montfort, Kees (*with* Bijleveld, Catrien) Dynamic analysis of multivariate panel data with non-linear transformations. (English summary)
Wild, Pascal *see* **Grzebyk, Michel et al., 2005e:62102**
Zhu, Liqiang (*with* Lai, Ying-Cheng; Hoppensteadt, Frank C.; He, Jiping) Characterization of neural interaction during learning and adaptation from spike-train data. (English summary) **2005k:92019**

Items listed otherwise than by author

Bibliography:
Fechner, Gustav Theodor *see* **Sheĭnin, O. B.**
Biography:
Fechner, Gustav Theodor *see* **Sheĭnin, O. B.**

62P20 Applications to economics [see also 91Bxx]

Abdalla, Ibrahim M. (*with* Hassan, Mohamed Y.) Fitting income distribution using a new parametric Lorenz curve. (English summary) **2005k:62250**
Abdul Sathar, E. I. (*with* Rajesh, G.; Muralidharan Nair, K. R.) On truncated versions of certain measures of income inequality. (English summary) **2005g:62187**
Adams, Alyce S. Medication cost sharing and drug spending in Medicare. (*see* **2005m:62005**)
Alvarez, Javier Dynamics and seasonality in quarterly panel data: an analysis of earnings mobility in Spain. (English summary)
Angle, John The dynamics of the distribution of wage and salary income in the non-metropolitan U.S. (English summary)
Anitori, Paola (*with* De Gregorio, Carlo) A proposal of classification of wholesale trade enterprises on the base of structural and performance indicators. (English summary) (*see* **2005f:62007**)
Anselin, Luc (*with* Florax, Raymond J. G. M.; Rey, Sergio J.) Econometrics for spatial models: recent advances. (*see* **2005g:62003**)
Auerbach, Paula F. *see* **Gertel, Héctor R. et al.**
Baier, Daniel (*with* Polasek, Wolfgang) Market simulation using Bayesian procedures in conjoint analysis. (English summary) (*see* **2005b:62008**)
Bailey, Trevor C. (*with* Hewson, Paul J.) Simultaneous modelling of multiple traffic safety performance indicators by using a multivariate generalized linear mixed model. (English summary)
Bajari, Patrick (*with* Kahn, Matthew E.) Estimating housing demand with an application to explaining racial segregation in cities. (English summary)
Balamurali, S. (*with* Subramani, Kandasamy) Modified CSP-C continuous sampling plan for consumer protection. (English summary)
Balk, Bert M. Divisia price and quantity indices: 80 years after. (English summary)
Bandourian, Ripsy (*with* McDonald, James B.; Turley, Robert S.) A comparison of parametric models of income distribution across countries and over time. (English summary)
Banerjee, Anindya[1] (*with* Marcellino, Massimiliano; Osbat, Chiara) Some cautions on the use of panel methods for integrated series of macroeconomic data. (English summary)
Bauer, H. H. (*with* Staat, Matthias; Hammerschmidt, M.) Value based benchmarking and market partitioning. (English summary) (*see* **2005b:62008**)
Bauwens, Luc (*with* Rombouts, Jeroen V. K.) Econometrics. (*see* **2005g:62004**)
Bennert, R. (*with* Missler-Behr, M.) Optimization of corporate reorganization portfolios based on a genetic algorithm. (English summary) (*see* **2005b:62008**)
Bhattacharjee, Manish C. Adaptive economic choices under recurrent disasters: a Bayesian perspective. (*see* **2005j:62007**)
Biggeri, Annibale (*with* Dreassi, Emanuela; Marchi, Marco) A multilevel Bayesian model for contextual effect of material deprivation. (English summary)
Böhm, Walter (*with* Geyer-Schulz, A.; Hahsler, M.; Jahn, M.) Repeat-buying theory and its application for recommender services. (English summary) (*see* **2005b:62008**)
Bolduc, Denis *see* **Rajaonarison, Dominique et al.**
Bornemeyer, C. (*with* Decker, R.) Key success factors in city marketing—some empirical evidence. (English summary) (*see* **2005b:62008**)
Cazals, Catherine (*with* Fève, Frédérique; Fève, Patrick; Florens, Jean-Pierre) Simple structural econometrics of price elasticity. (English summary)
Centoni, M. (*with* Zelli, Roberto) Persistence effects in a disaggregated model of output in Italy. (Italian. English and Italian summaries)

Chan, Wen-Yaw *see* **McGhee, Charles R. et al.**, (2005i:62004)
Chattopadhyay, Asis Kumar (*with* Khan, Shahjahan) A statistical model of occupational mobility—a salary based measure. (English summary)
Chen, Chung-Ho Determining the optimum process mean under a gamma distribution. (English summary)
von Collani, Elart *see* **Solojentsev, Evgueni**, (2005a:62017)
Corain, L. (*with* Salmaso, L.) An empirical study on new product development process by nonparametric combination (NPC) testing methodology and post-stratification. (English and Italian summaries)
Costa, Michele (*with* Iezzi, Stefano) Technology spillover and regional convergence process: a statistical analysis of the Italian case. (English summary)
Darwis, Sutawanir On the use of updating technique in grade estimation. (English summary)
Davis, Brett A. *see* **Nurminen, Markku M. et al.**
De Cantis, Stefano *see* **Mendola, Daria**, (2005f:62007)
Decker, R. *see* **Bornemeyer, C.**, (2005b:62008)
De Gregorio, Carlo *see* **Anitori, Paola**, (2005f:62007)
Di Fonzo, Tommaso Constrained retropolation of high-frequency data using related series: a simple dynamic model approach. (English summary)
Dreassi, Emanuela *see* **Biggeri, Annibale et al.**
Duclos, Jean-Yves (*with* Esteban, Joan; Ray, Debraj) Polarization: concepts, measurement, estimation. (English summary) **2005d:62170**
Dueker, Michael Dynamic forecasts of qualitative variables: a Qual VAR model of U.S. recessions. (English summary)
Dziechciarz, J. *see* **Kwiatkowska-Ciotucha, D. et al.**, (2005b:62008)
Eliste, Paavo (*with* Fredriksson, Per G.) Does trade liberalization cause a race-to-the-bottom in environmental policies? A spatial econometric analysis. (*see* **2005g:62003**)
Ernst, Chris M. (*with* Ernst, G.; Szczesny, A.) Knee replacement surgery and learning effects—data evidence from a German hospital. (English summary) (*see* **2005b:62008**)
Ernst, G. *see* **Ernst, Chris M. et al.**, (2005b:62008)
Esteban, Joan *see* **Duclos, Jean-Yves et al.**, 2005d:62170
Fernández Llana, Carmen (*with* León, Carmelo J.; Steel, Mark F. J.; Vázquez-Polo, Francisco José) Bayesian analysis of interval data contingent valuation models and pricing policies. (English summary)
Fernández Morales, Antonio Inequality and poverty in rural and urban areas in Spain: a parametric focus. (Spanish. Spanish summary)
— *see also* **Lacomba Arias, Beatriz et al.**
Fève, Frédérique *see* **Cazals, Catherine et al.**
Fève, Patrick *see* **Cazals, Catherine et al.**
Fingleton, Bernard Regional economic growth and convergence: insights from a spatial econometric perspective. (*see* **2005g:62003**)
Florax, Raymond J. G. M. *see* **Anselin, Luc et al.**, (2005g:62003)
Florens, Jean-Pierre (*with* Simar, Léopold) Parametric approximations of nonparametric frontiers. (English summary) **2005f:62165**
— *see also* **Cazals, Catherine et al.**
Fredriksson, Per G. *see* **Eliste, Paavo**, (2005g:62003)
Friesen, K. (*with* Schmitz, Hans) Joker—visualization of an object model for a cost accounting educational software. (English summary) (*see* **2005b:62008**)
García Lizana, Antonio (*with* Pérez Moreno, Salvador) A specific relation between income distribution and economic growth: the "L Hypothesis". (Spanish. Spanish summary)
Gauthier, Stéphane Determinacy in linear rational expectations models. (English summary) **2005h:62294**
Gertel, Héctor R. (*with* Giuliodori, Roberto; Auerbach, Paula F.; Rodríguez, Alejandro F.) A parametric estimation of personal income distribution in Argentina using the Dagum model. (English summary)
Geyer-Schulz, A. *see* **Böhm, Walter et al.**, (2005b:62008)
Ghosh, Himadri (*with* Prajneshu) Non-linear time series modeling of volatile onion price data using AR(p)-arch(q)-in-mean. (English summary)
Giles, David E. Testing for a Santa Claus effect in growth cycles. (English summary)
Giorgi, Giovanni Maria (*with* Pittau, Maria Grazia; Zelli, Roberto) Regional empirics for economic disparities in Italy: 1951–2001. (English summary)
Giuliodori, Roberto *see* **Gertel, Héctor R. et al.**
Glasser, Jay H. *see* **McGhee, Charles R. et al.**, (2005i:62004)
Gopal, Govindasamy *see* **Kumar, R. Suresh et al.**
Hahsler, M. *see* **Böhm, Walter et al.**, (2005b:62008)
Hammerschmidt, M. *see* **Bauer, H. H. et al.**, (2005b:62008)
Hassan, Mohamed Y. *see* **Abdalla, Ibrahim M.**, 2005k:62250
Heathcote, Christopher R. *see* **Nurminen, Markku M. et al.**
Hewson, Paul J. *see* **Bailey, Trevor C.**
Iezzi, Stefano *see* **Costa, Michele**
Ioannides, Yannis M. Economic geography and the spatial evolution of wages in the United States. (*see* **2005g:62003**)
Jahn, M. *see* **Böhm, Walter et al.**, (2005b:62008)
Jayet, Hubert *see* **Rajaonarison, Dominique et al.**
Jeeva, M. (*with* Rajagopal, Rajalakshmi; William, Martin L.; Yadavalli, V. S. S.) Expected time for attainment threshold level—a shock model approach. (English summary) **2005d:62171**
Jiang, Tao[3] (*with* Wang, Jia Qi) Ruin probability in a discrete risk model with stochastic interest rate. (Chinese. English and Chinese summaries) **2005g:62188**
Kahn, Matthew E. *see* **Bajari, Patrick**
Kambhampati, Uma S. (*with* Parikh, Ashok) Has liberalization affected profit margins in Indian industry? (English summary)
Khan, Shahjahan *see* **Chattopadhyay, Asis Kumar**
Krüger, Jens J. Structural change in U.S. manufacturing: stationarity and intra-distributional changes. (English summary)
Kudo, Kazuki (*with* Ohta, Hiroshi[1]; Kusukawa, Etsuko) Economic design of a dynamic $CCC-r$ chart for high-yield processes. (English summary)
Kumar, R. Suresh (*with* Gopal, Govindasamy; Sathyamoorthi, R.) On the expected time to recruitment in a two grade organisation when the thresholds are Erlang 2. (English summary)
Kusukawa, Etsuko *see* **Kudo, Kazuki et al.**
Kwiatkowska-Ciotucha, D. (*with* Zaluska, U.; Dziechciarz, J.) Manufacturing branches in Poland—a classification attempt. (English summary) (*see* **2005b:62008**)
Lacomba Arias, Beatriz (*with* Fernández Morales, Antonio; Martín Reyes, Guillermina) Socioeconomic determinants of poverty and the persistence of territorial inequalities: a dynamical analysis for Spain. (Spanish)
Lam, K. K. (*with* Rahim, M. A.) Joint determination of economic design of $\overline{X}$-control charts, economic production quantity, and production run length for a deteriorating production system. (*see* **2005a:62017**)
Lam, Kin *see* **Yu, Philip L. H. et al.**
Lenz, Hans-Joachim *see* **Neiling, Mattis**
León, Carmelo J. *see* **Fernández Llana, Carmen et al.**
Lo, S. M. *see* **Yu, Philip L. H. et al.**
Löffler, M. Market-segments of automotive brands: letting multivariate analyses reveal additional insights. (English summary) (*see* **2005b:62008**)
López-Bazo, Enrique *see* **Vayá, Esther et al.**, (2005g:62003)
Marcellino, Massimiliano *see* **Banerjee, Anindya[1] et al.**
Marchi, Marco *see* **Biggeri, Annibale et al.**
Marquetti, Adalmir Do rising real wages increase the rate of labor-saving technical change? Some econometric evidence. (English summary)
Martín Reyes, Guillermina *see* **Lacomba Arias, Beatriz et al.**
McDonald, James B. *see* **Bandourian, Ripsy et al.**
McGhee, Charles R. (*with* Glasser, Jay H.; Chan, Wen-Yaw; Pomeroy, Nancy) Forecasting health care expenditures and utilization based on a Markov process and a deterministic cost function in managed care settings. (English summary) (*see* **2005i:62004**)
Mendola, Daria (*with* De Cantis, Stefano) The analysis of poverty in Italy: A fuzzy dynamic approach. (English summary) (*see* **2005f:62007**)
Merz, Joachim Kumulation von Mikrodaten—konzeptionelle Grundlagen und ein Vorschlag zur Realisierung. (German summary) [Accumulation of microdata—conceptual foundations and a proposal towards realization]
Meyer, Matthias Sequence mining in marketing. (English summary) (*see* **2005b:62008**)
Missler-Behr, M. *see* **Bennert, R.**, (2005b:62008)
Moon, Hyungsik Roger (*with* Perron, Benoit) Efficient estimation of the seemingly unrelated regression cointegration model and testing for purchasing power parity. (English summary)
Moreno, Rosina *see* **Vayá, Esther et al.**, (2005g:62003)
Muralidharan Nair, K. R. *see* **Abdul Sathar, E. I. et al.**, 2005g:62187
Nebbia, Giorgio The gross domestic material product of Italy in 2000. (Italian. English and Italian summaries)
Neiling, Mattis (*with* Lenz, Hans-Joachim) The German administrative record census—an object identification problem. (English summary)
Núñez Velázquez, José Javier *see* **Pena Trapero, J. B.**
Nurminen, Markku M. (*with* Heathcote, Christopher R.; Davis, Brett A.; Puza, Borek D.) Working life expectancies: the case of Finland 1980–2006. (English summary)
Ogaki, Masao *see* **Zhang, Qiang[6]**
Ohn, Jonathan (*with* Taylor, Larry W.; Pagan, Adrian) Testing for duration dependence in economic cycles. (English summary)
Ohta, Hiroshi[1] *see* **Kudo, Kazuki et al.**
Osbat, Chiara *see* **Banerjee, Anindya[1] et al.**
Pacei, Silvia *see* **Rosaria Ferrante, Maria**
Pagan, Adrian *see* **Ohn, Jonathan et al.**
Parikh, Ashok *see* **Kambhampati, Uma S.**
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Rosaria Ferrante, Maria (*with* Pacei, Silvia) Small area estimation for longitudinal surveys. (English summary)
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Singh, R. Karan (*with* Rastogi, N.) A generalized estimator in econometric methods. (English summary)
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Slottje, Daniel J. *see* **Ryu, Hang Keun**
Small, Kenneth A. (*with* Winston, Clifford; Yan, Jia) Uncovering the distribution of motorists' preferences for travel time and reliability. (English summary)
Solojentsev, Evgueni (*with* von Collani, Elart) Evaluation of quality and market risk of complex industrial products. (English summary) (*see* **2005a:62017**)
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Zhang, Qiang[6] (*with* Ogaki, Masao) Decreasing relative risk aversion, risk sharing, and the permanent income hypothesis. (English summary)
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Items with secondary classifications in 62P20

Aakvik, Arild (*with* Heckman, James J.; Vytlacil, Edward J.) Estimating treatment effects for discrete outcomes when responses to treatment vary: an application to Norwegian vocational rehabilitation programs. (English summary)
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Alvargonzález-Rodríguez, Mercedes (*with* López-Menéndez, Ana Jesus; Pérez, Rigoberto) The double quadratic uncertainty measures and their economic applications. (*see* **2005i:62007**)
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del Barrio Castro, Tomas (*with* Osborn, Denise R.) The consequences of seasonal adjustment for periodic autoregressive processes. (English summary)
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Rilstone, Paul (*with* Ullah, Aman) Corrigendum to: "The second-order bias and mean squared error of nonlinear estimators" [J. Econometrics **75** (1996), no. 2, 369–395; MR1413647 (97i:62025)] by the authors and V. K. Srivastava. **2005g:62051**
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Items listed otherwise than by author

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Chang, Hung-Yen *see* **Wang, Ming-Yung**
Chen, Chung-Ho Determining the optimum process mean of a one-sided specification limit with the linear quality loss function of product. (English summary)
Chen, Kuen-Suan *see* **Pearn, Wen Lea et al.**
Christmann, Andreas An approach to model complex high-dimensional insurance data. (English summary)
Colosimo, B. M. (*with* Pan, Rong; del Castillo, E.) A sequential Markov chain Monte Carlo approach to set-up adjustment of a process over a set of lots. (English summary)
Cornford, Dan (*with* Csató, Lehel; Evans, David John[3]; Opper, Manfred) Bayesian analysis of the scatterometer wind retrieval inverse problem: some new approaches. (English summary)
Csató, Lehel *see* **Cornford, Dan et al.**
Das, Nandini Improving resistivity of resin. (English summary)

Diggle, Peter J. *see* **Brown, Patrick E. et al.**
Dobson, Ian (*with* Carreras, Benjamin A.; Newman, David E.) A loading-dependent model of probabilistic cascading failure. (English summary)
Duarte, Belmiro *see* **Zempléni, András et al.**
Dulikravich, George S. *see* **Fan, Hui-Yuan et al.**
Engel, Jan (*with* van Kempen, Joris) Characterizing the measurement precision of thermal resistance measurements. (English summary)
Erdbrügge, Martina *see* **Auer, Corinna et al.**
Evans, David John[3] *see* **Cornford, Dan et al.**
Fan, Hui-Yuan (*with* Dulikravich, George S.; Han, Zhen-Xue) Aerodynamic data modeling using support vector machines. (English summary)
Figueiredo, Fernanda (*with* Gomes, M. Ivette) The total median in statistical quality control. (English summary)
Frankel, Gerald S. *see* **Ruan, Shiling et al.**
Gaul, Wolfgang (*with* Schmidt-Thieme, Lars) Mining web navigation path fragments. (English summary) (*see* **2005b:62010**)
Göbel, Roland *see* **Auer, Corinna et al.**
Goldstein, Michael[1] *see* **Little, John David et al.**
Gomes, M. Ivette *see* **Figueiredo, Fernanda**
Gupta, Rakesh[1] (*with* Varshney, Gaurav) Reliability analysis of gas leakage detection system in an industrial workshop with the aid of Boolean function technique. (English summary)
Han, Zhen-Xue *see* **Fan, Hui-Yuan et al.**
Hartmann, Gerd Karlheinz *see* **Nürnberger, A. et al.**, (**2005b:62008**)
Haschke, Greg B. *see* **Koch, Mark W. et al.**
den Heijer, Kees *see* **Little, John David et al.**
Henderson, Robin *see* **Brown, Patrick E. et al.**
Hirose, Hideo[2] Low probability breakdown voltage estimation by a new step-up test method. (Japanese. English and Japanese summaries) **2005f:62166**
Huber, K.-P. *see* **Säuberlich, F.**, (**2005b:62008**)
Javed, Qasim (*with* Shoaib Alam, Muhammad; Anwer, Muhammad Bilal; Raza ur Rehman, Muhammad; Murtaza, Saeed; Anwar, Faisal; Akbar, M.) Detecting denial of service attacks on high speed networks using Kolmogorov Smirnov test and its variants. (English summary)
Jonathan, Philip *see* **Little, John David et al.**
Jorgensen, Murray Using multinomial mixture models to cluster internet traffic. (English summary)
van Kempen, Joris *see* **Engel, Jan**
Kleinhof, Martinsh (*with* Paramonov, Yuri; Paramonova, Alexandra) Regression model based on Markov chain theory for composite fatigue curve approximation. (English summary)
Klose, Aljoscha *see* **Nürnberger, A. et al.**, (**2005b:62008**)
Koch, Mark W. (*with* Haschke, Greg B.; Malone, Kevin T.) Classifying acoustic signatures using the sequential probability ratio test. (English summary)
Koivunen, V. *see* **Ollila, E.**, (**2005c:62006**)
Krishnamoorthy, Mukkai S. *see* **Punin, J. R. et al.**, (**2005b:62008**)
Kruse, Rudolf *see* **Nürnberger, A. et al.**, (**2005b:62008**)
Lin, Pi Chuan *see* **Pearn, Wen Lea et al.**
Little, John David (*with* Goldstein, Michael[1]; Jonathan, Philip; den Heijer, Kees) Spatio-temporal modelling of corrosion in an industrial furnance. (English summary)
Louzada-Neto, Francisco *see* **Martínez-Espinosa, Mariano et al.**
Makarov, A. A. (*with* Simonova, G. I.) Statistical model of diurnal oscillations of the speed of data transfer to computer network users.
Malone, Kevin T. *see* **Koch, Mark W. et al.**
Marques, J. M. G. *see* **Campos, L. M. B. C.**
Martínez-Espinosa, Mariano (*with* Louzada-Neto, Francisco; Calil, Carlito, Jr.) A multiple orthogonal polynomial Birnbaum-Saunders model for fatigue data. (English and Portuguese summaries)
Mease, David (*with* Nair, Vijayan N.; Sudjianto, Agus) Selective assembly in manufacturing: statistical issues and optimal binning strategies. (English summary) **2005a:62242**
Murtaza, Saeed *see* **Javed, Qasim et al.**
Nair, Vijayan N. *see* **Mease, David et al.**, **2005a:62242**
Newman, David E. *see* **Dobson, Ian et al.**
Nürnberger, A. (*with* Klose, Aljoscha; Kruse, Rudolf; Hartmann, Gerd Karlheinz; Richards, Michael Lee) Clustering of document collections to support interactive text exploration. (English summary) (*see* **2005b:62008**)
Ollila, E. (*with* Koivunen, V.) Robust ML-estimation of the transmitter location. (English summary) (*see* **2005c:62006**)
Ollis, James *see* **Sparks, Ross**, (**2005a:62014**)
Opper, Manfred *see* **Cornford, Dan et al.**
Pan, Rong *see* **Colosimo, B. M. et al.**
Paramonov, Yuri *see* **Kleinhof, Martinsh et al.**
Paramonova, Alexandra *see* **Kleinhof, Martinsh et al.**
Pearn, Wen Lea (*with* Lin, Pi Chuan; Chen, Kuen-Suan) The C''_{pk} index for asymmetric tolerances: implications and inference. (English summary)
Punin, J. R. (*with* Krishnamoorthy, Mukkai S.; Zaki, Mohammed Javeed) Web usage mining—languages and algorithms. (English summary) (*see* **2005b:62008**)
Raza ur Rehman, Muhammad *see* **Javed, Qasim et al.**
Richards, Michael Lee *see* **Nürnberger, A. et al.**, (**2005b:62008**)
Ruan, Shiling (*with* Wolfe, Douglas A.; Frankel, Gerald S.) Statistical modeling and computer simulation of intergranular corrosion growth in AA2024-T3 aluminum alloy. (English summary)
Runkler, T. A. (*with* Bezdek, J. C.) Relational clustering for the analysis of internet newsgroups. (English summary) (*see* **2005b:62008**)
Saraiva, Pedro *see* **Zempléni, András et al.**
Säuberlich, F. (*with* Huber, K.-P.) A framework for web usage mining on anonymous logfile data. (English summary) (*see* **2005b:62008**)
Savithri *see* **Swamy, R. J. R.**
Schmidt-Thieme, Lars *see* **Gaul, Wolfgang**, (**2005b:62010**)
Shoaib Alam, Muhammad *see* **Javed, Qasim et al.**
Simonova, G. I. *see* **Makarov, A. A.**
Skřivánek, Jaroslav The optimal control chart procedure. (English summary) **2005i:62156**
Sparks, Ross (*with* Ollis, James) Monitoring pavement construction processes. (English summary) (*see* **2005a:62014**)
Sudjianto, Agus *see* **Mease, David et al.**, **2005a:62242**
Swamy, R. J. R. (*with* Savithri) Distribution of demerit statistic with Markov type dependence and applications in statistical quality control. (English summary)
Tóth, Erzsébet Statistical methods in measuring search engine performance. (English summary)
Varshney, Gaurav *see* **Gupta, Rakesh**[1]
Véber, Miklós *see* **Zempléni, András et al.**
Villar, José *see* **Campos, F. Alberto**, (**2005i:62007**)
Wang, Ming-Yung (*with* Chang, Hung-Yen) The optimum of tool geometry on surface roughness in end milling AL2014-T6. (English summary)
Wolfe, Douglas A. *see* **Ruan, Shiling et al.**
Zaki, Mohammed Javeed *see* **Punin, J. R. et al.**, (**2005b:62008**)
Zempléni, András (*with* Véber, Miklós; Duarte, Belmiro; Saraiva, Pedro) Control charts: a cost-optimization approach for processes with random shifts. (English summary)

Items with secondary classifications in 62P30

Abujiya, Mu'azu R. (*with* Muttlak, Hassen A.) Quality control chart for the mean using double ranked set sampling. (English summary) **2005k:62231**
Al-Mutairi, Dhaifalla K. Bayesian computations for random environment models. (English summary)
Arbia, G. (*with* Lafratta, G.) Spatial correlation estimates based on satellite observations corrected with the prior knowledge on sensor devices' technical characteristics. (English and Italian summaries)
Atkinson, Anthony C. Some Bayesian optimum designs for response transformation in nonlinear models with nonconstant variance. (English summary) (*see* **2005f:62009**)
Babak, O. V. (*with* Gasanov, A. S.; Leĭbovich, M. M.; Stetsyuk, P. I.) On an approach to the application of the least moduli method in the construction of linear models. (Russian. English and Ukrainian summaries) **2005m:62133**
Bartoli, Gianni *see* **Gabbanini, Francesco et al.**
Bhansali, R. J. (*with* Holland, Mark; Kokoszka, P. S.) Chaotic maps with slowly decaying correlations and intermittency. (English summary) **2005j:37044**
Biedermann, S. (*with* Dette, Holger; Pepelyshev, Andrey) Maximin optimal designs for a compartmental model. (English summary) **2005g:62132**
Brunnett, Guido *see* **Vanco, M.**, (**2005f:65004**)
Burke, Robin *see* **Sieg, Ahu et al.**, (**2005i:62003**)
Cafeo, John A. *see* **Higdon, Dave et al.**
Capitanio, Antonella (*with* Conti, Pier Luigi) A Bayesian nonparametric approach to the estimation of the adjustment coefficient, with applications to insurance and telecommunications. (English summary) **2005g:62062**
Cardot, Hervé (*with* Koo, Ja-Yong; Park, Heon Jin; Trubuil, Alain) Boosting diracs for electrophoresis. (English summary)
Cavendish, James C. *see* **Higdon, Dave et al.**
Chang, Yen-Chang *see* **Pearn, Wen Lea et al.**
Chiang, I. Robert (*with* Kuo, Lynn) Managing software development process using system reliability data. (English summary) (*see* **2005a:62018**)
Chong, Kihun (*with* Song, Ha Yoon; Noh, Sam H.) Traffic characterization of the web server attacks of worm viruses. (English summary) **2005m:62095**
Cohen-Tanugi, Johann *see* **Morris, Robin D.**, (**2005c:62004**)
von Collani, Elart *see* **Stübner, Dmitri et al.**
Conti, Pier Luigi *see* **Capitanio, Antonella**, **2005g:62062**
Costa, A. F. B. (*with* Rahim, M. A.) Monitoring process mean and variability with one non-central chi-square chart. (English summary)
Dagne, Getachew A. Hierarchical Bayesian analysis of correlated zero-inflated count data. (English summary)
Dette, Holger *see* **Biedermann, S. et al.**, **2005g:62132**
Fokianos, Konstantinos *see* **Kedem, Benjamin**, (**2005c:68009**)
Gabbanini, Francesco (*with* Vannucci, Marina; Bartoli, Gianni; Moro, Antonio) Wavelet packet methods for the analysis of variance of time series with application to crack widths on the Brunelleschi dome. (English summary)
Gasanov, A. S. *see* **Babak, O. V. et al.**, **2005m:62133**
Gopalan, M. N. Probabilistic analysis of a two-stage production system with two parallel machines in the first stage. (English summary)
Hall, Peter G. (*with* Penev, Spiridon) Wavelet-based estimation with multiple sampling rates. (English summary)
Hamada, Michael S. (*with* Johnson, Valen; Moore, Leslie M.; Wendelberger, Joanne) Bayesian prediction intervals and their relationship to tolerance intervals. (English summary)
Hernandez-Campos, Felix (*with* Jeffay, Kevin; Park, Cheolwoo; Marron, J. S.; Resnick, Sidney I.) Extremal dependence: internet traffic applications. (English summary)
— *see also* **Marron, J. S. et al.**, (**2005h:62009**)
Higdon, Dave (*with* Kennedy, Marc; Cavendish, James C.; Cafeo, John A.; Ryne, Robert D.) Combining field data and computer simulations for calibration and prediction. (English summary)
Holland, Mark *see* **Bhansali, R. J. et al.**, **2005j:37044**
Isogai, Takafumi (*with* Katano, Yukio; Miyata, Kenji) Models and inference for corrosion pit depth data. (English summary)
Jeffay, Kevin *see* **Hernandez-Campos, Felix et al.**
Jeske, Daniel R. (*with* Sampath, Ashwin) Signal-to-interference-plus-noise ratio estimation for wireless communication systems: methods and analysis. (English summary) **2005j:94002**
Johansson, Joachim Estimating the mean of heavy-tailed distributions. (English summary) **2005c:62094**
Johnson, Valen *see* **Hamada, Michael S. et al.**
Katano, Yukio *see* **Isogai, Takafumi et al.**
Kedem, Benjamin (*with* Fokianos, Konstantinos) Semiparametric filtering in speech processing. (English summary) (*see* **2005c:68009**)

Kennedy, Marc *see* **Higdon, Dave et al.**
Kokoszka, P. S. *see* **Bhansali, R. J. et al., 2005j:37044**
Koo, Ja-Yong *see* **Cardot, Hervé et al.**
Kuo, Lynn *see* **Chiang, I. Robert, (2005a:62018)**
Lafratta, G. *see* **Arbia, G.**
Leĭbovich, M. M. *see* **Babak, O. V. et al., 2005m:62133**
Li, Jingshan (*with* Meerkov, Semyon M.) On the coefficients of variation of uptime and downtime in manufacturing equipment.
Lin, Guo Hua (*with* Pearn, Wen Lea) Distributions of the estimated process capability index C_{pk}. (English summary) **2005c:62186**
Mak, Tak K. (*with* Nebebe, Fassil) Modeling problems in parameter designs. (English summary)
Marron, J. S. (*with* Hernandez-Campos, Felix; Smith, F. Donelson) A sizer analysis of IP flow start times. (English summary) (*see* **2005h:62009**)
— *see also* **Hernandez-Campos, Felix et al.**
Meerkov, Semyon M. *see* **Li, Jingshan**
Miyata, Kenji *see* **Isogai, Takafumi et al.**
Mobasher, Bamshad *see* **Sieg, Ahu et al., (2005i:62003)**
Moore, Leslie M. *see* **Hamada, Michael S. et al.**
Moro, Antonio *see* **Gabbanini, Francesco et al.**
Morris, Robin D. (*with* Cohen-Tanugi, Johann) An analysis methodology for the gamma-ray large area space telescope. (English summary) (*see* **2005c:62004**)
Muttlak, Hassen A. *see* **Abujiya, Mu'azu R., 2005k:62231**
Naik, Prasad A. (*with* Tsai, Chih-Ling) Isotonic single-index model for high-dimensional database marketing. (English summary) **2005h:62158**
Nebebe, Fassil *see* **Mak, Tak K.**
Noh, Sam H. *see* **Chong, Kihun et al., 2005m:62095**
Nordström, Fredrik ★ Interference rejection and channel detection in mobile communication. **2005b:94025**
Özekici, Süleyman (*with* Soyer, Refik) Reliability modeling and analysis in random environments. (English summary) (*see* **2005a:62018**)
Park, Cheolwoo *see* **Hernandez-Campos, Felix et al.**
Park, Heon Jin *see* **Cardot, Hervé et al.**
Pearn, Wen Lea (*with* Chang, Yen-Chang; Wu, Chien-Wei) Distributional and inferential properties of the process loss indices. (English summary)
— *see also* **Lin, Guo Hua, 2005c:62186**
Penev, Spiridon *see* **Hall, Peter G.**
Pepelyshev, Andrey *see* **Biedermann, S. et al., 2005g:62132**
Pievatolo, Antonio (*with* Ruggeri, Fabrizio) Bayesian reliability analysis of complex repairable systems. (English summary)
Pooi, A. H. *see* **Tan, Y. F.**
Popescu, Theodor D. Robust change detection method using Akaike information criterion for signal segmentation. (*see* **2005i:62007**)
Raftery, Adrian E. *see* **Walsh, Daniel C. I.**
Rahim, M. A. *see* **Costa, A. F. B.**
Rekab, Kamel (*with* Shaikh, Muzaffar) ★ Statistical design of experiments with engineering applications.
Resnick, Sidney I. *see* **Hernandez-Campos, Felix et al.**
Ruggeri, Fabrizio *see* **Pievatolo, Antonio**
Ryne, Robert D. *see* **Higdon, Dave et al.**
Sampath, Ashwin *see* **Jeske, Daniel R., 2005j:94002**
Sampath Kumar, V. S. (*with* Sarma, K. V. S.; Sekhar, K.) The least cost testing sequence problem. (English summary)
Sans, Wolfgang *see* **Stübner, Dmitri et al.**
Sarma, K. V. S. *see* **Sampath Kumar, V. S. et al.**
Schoen, E. D. Dispersion-effects detection after screening for location effects in unreplicated two-level experiments. (English summary)
Sekhar, K. *see* **Sampath Kumar, V. S. et al.**
Sen, Surath *see* **Stübner, Dmitri et al.**
Shaikh, Muzaffar *see* **Rekab, Kamel**
Sieg, Ahu (*with* Mobasher, Bamshad; Burke, Robin) Inferring user's information context from user profiles and concept hierarchies. (English summary) (*see* **2005i:62003**)
Sivia, D. S. Some thoughts on correlated noise. (English summary) (*see* **2005c:62004**)
Smith, F. Donelson *see* **Marron, J. S. et al., (2005h:62009)**
Smith, Wendell F. ★ Experimental design for formulation.
Song, Ha Yoon *see* **Chong, Kihun et al., 2005m:62095**
Soyer, Refik *see* **Özekici, Süleyman, (2005a:62018)**
Stetsyuk, P. I. *see* **Babak, O. V. et al., 2005m:62133**
Stübner, Dmitri (*with* Sans, Wolfgang; Zhai, Xiaomin; Sen, Surath; von Collani, Elart) Measurement procedures for improving the variability function. (English summary)
Tan, Y. F. (*with* Pooi, A. H.) Run length distribution of two-sided CUSUM procedures for continuous random variables. (English summary)
Tang, Shu Ming (*with* Wang, Fei Yue) Recent development in the research of process capability indices. (Chinese. English and Chinese summaries) **2005e:62143**
Trubuil, Alain *see* **Cardot, Hervé et al.**
Tsai, Chih-Ling *see* **Naik, Prasad A., 2005h:62158**
Vanco, M. (*with* Brunnett, Guido) Direct segmentation of algebraic models for reverse engineering. (English summary) (*see* **2005f:65004**)
Vannucci, Marina *see* **Gabbanini, Francesco et al.**
Vuchkov, I. N. Error transmission in mixture experiments. (English summary) (*see* **2005f:62009**)
Walsh, Daniel C. I. (*with* Raftery, Adrian E.) Classification of mixtures of spatial point processes via partial Bayes factors. (English summary)
Wang, Fei Yue *see* **Tang, Shu Ming, 2005e:62143**
Wendelberger, Joanne *see* **Hamada, Michael S. et al.**
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Zhai, Xiaomin *see* **Stübner, Dmitri et al.**

62P35 Applications to physics

Cohen-Tanugi, Johann *see* **Morris, Robin D., (2005c:62004)**
Dose, V. *see* **Kang, H. D., (2005c:62004)**
van Dyk, David A. (*with* Kang, Hosung) Highly structured models for spectral analysis in high-energy astrophysics. (English summary)
Fischer, Bernd[3] (*with* Hajian, Arsen; Knuth, Kevin H.; Schumann, Johann) Automatic derivation of statistical data analysis algorithms: planetary nebulae and beyond. (English summary) (*see* **2005c:62004**)
Hajian, Arsen *see* **Fischer, Bernd[3] et al., (2005c:62004)**
Kang, H. D. (*with* Dose, V.) Bayesian model comparison using Gauss approximation on multicomponent mass spectra from CH_4 plasma. (English summary) (*see* **2005c:62004**)
Kang, Hosung *see* **van Dyk, David A.**
Knuth, Kevin H. *see* **Fischer, Bernd[3] et al., (2005c:62004)**
Marinucci, Domenico Testing for non-Gaussianity on cosmic microwave background radiation: a review. (English summary)
Morris, Robin D. (*with* Cohen-Tanugi, Johann) An analysis methodology for the gamma-ray large area space telescope. (English summary) (*see* **2005c:62004**)
Ohnishi, Toshio[2] (*with* Yanagimoto, Takemi) Electrostatic views of Stein-type estimation of location vectors. (English summary) **2005a:62243**
Schumann, Johann *see* **Fischer, Bernd[3] et al., (2005c:62004)**
Yanagimoto, Takemi *see* **Ohnishi, Toshio[2], 2005a:62243**

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Casella, George *see* **Genovese, Christopher R. et al.**
van Dyk, David A. (*with* Park, Taeyoung) Efficient EM-type algorithms for fitting spectral lines in high-energy astrophysics. (*see* **2005m:62005**)
Genovese, Christopher R. (*with* Wasserman, Larry; Casella, George) Introduction to the special section on astrostatistics.
Goldstein, Michael[1] (*with* Rougier, Jonathan) Probabilistic formulations for transferring inferences from mathematical models to physical systems. (English summary)
Gubanov, V. S. ★ Обобщенный метод наименьших квадратов. (Russian. Russian summary) [The generalized method of least squares] **2005e:65010**
Marinucci, Domenico (*with* Piccioni, Mauro) The empirical process on Gaussian spherical harmonics. (English summary) **2005f:60086**
Park, Taeyoung *see* **van Dyk, David A., (2005m:62005)**
Piccioni, Mauro *see* **Marinucci, Domenico, 2005f:60086**
Rougier, Jonathan *see* **Goldstein, Michael[1]**
Shopova, Diana V. (*with* Uzunov, Dimo I.) Some basic aspects of quantum phase transitions. (English summary) **2005g:82040**
Uzunov, Dimo I. *see* **Shopova, Diana V., 2005g:82040**
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Accomazzi, Alberto *see* **Demleitner, Markus et al., (2005i:62003)**
Bécue-Bertaut, Mónica (*with* Pagès, Jérôme; Pardo, Campo-Elías) Analysis of cross-language open-ended questions through MFACT. (English summary) (*see* **2005i:62003**)
Dawid, A. Philip Bayes's theorem and weighing evidence by juries. **2005f:62167**
Demleitner, Markus (*with* Kurtz, Michael; Accomazzi, Alberto; Eichhorn, Günther; Grant, Carolyn S.; Murray, Steven S.) Automated resolution of noisy bibliographic references. (English summary) (*see* **2005i:62003**)
Eichhorn, Günther *see* **Demleitner, Markus et al., (2005i:62003)**
Eltinge, John Nonresponse adjustment in government statistical agencies: constraints, inferential goals, and robustness issues. (*see* **2005m:62005**)
Grant, Carolyn S. *see* **Demleitner, Markus et al., (2005i:62003)**
Guha, Apratim Analysis of scoring rate in a limited over cricket match. (English summary)
Hu, Fei Fang (*with* Zidek, James V.) Forecasting NBA basketball playoff outcomes using the weighted likelihood. (English summary) (*see* **2005i:62005**)
Insley, Robin (*with* Mok, Lucia; Swartz, Tim B.) Issues related to sports gambling. (English summary)
Kurtz, Michael *see* **Demleitner, Markus et al., (2005i:62003)**
Mok, Lucia *see* **Insley, Robin et al.**
Murray, Steven S. *see* **Demleitner, Markus et al., (2005i:62003)**
Nicolini, Giovanna A class of estimators based on detectability: applications to measuring the number of clandestine immigrants. (Italian. English and Italian summaries)
O'Sullivan, Joseph A. *see* **Schmid, Natalia A.**
Pagès, Jérôme *see* **Bécue-Bertaut, Mónica et al., (2005i:62003)**
Pardo, Campo-Elías *see* **Bécue-Bertaut, Mónica et al., (2005i:62003)**
Rist, Ulfert Thesaurus migration in practice. (English summary) (*see* **2005b:62008**)
Schmid, Natalia A. (*with* O'Sullivan, Joseph A.) Performance prediction methodology for biometric systems using a large deviations approach. (English summary)
Swartz, Tim B. *see* **Insley, Robin et al.**
Tao, Tao (*with* Zhai, ChengXiang) A mixture clustering model for pseudo feedback in information retrieval. (English summary) (*see* **2005i:62003**)
Zhai, ChengXiang *see* **Tao, Tao, (2005i:62003)**
Zidek, James V. *see* **Hu, Fei Fang, (2005i:62005)**

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Beecher, Chris *see* **Simmons, Susan J. et al., (2005i:62003)**
Bellegarda, Jerome R. Latent semantic language modeling for speech recognition. (English summary) (*see* **2005c:68009**)
Brglez, Franc (*with* Li, Xiao Yu[2]; Stallmann, Matthias F.) On SAT instance classes and a method for reliable performance experiments with SAT solvers. (English summary)
Chen, Lan Sun *see* **Tao, Feng-mei et al.**
Chou, Chien-Hsin (*with* Su, Mu-Chun; Lai, Eugene) A new cluster validity measure and its application to image compression. (English summary)
Deng, Li[1] Switching dynamic system models for speech articulation and acoustics. (English summary) (*see* **2005c:68009**)
El Barmi, Hammou (*with* Mukerjee, Hari) Consistent estimation of distributions with type II bias with applications in competing risks problems. (English summary) **2005d:62052**

Ernst, Damien (*with* Geurts, Pierre; Wehenkel, Louis) Iteratively extending time horizon reinforcement learning. (English summary) (*see* **2005c:68008**)
Geman, Stuart (*with* Johnson, Mark Edward) Probability and statistics in computational linguistics, a brief review. (*see* **2005c:68009**)
Geurts, Pierre *see* **Ernst, Damien et al.**, (**2005c:68008**)
Jelinek, Frederick Stochastic analysis of structured language modeling. (English summary) **2005c:68260**
Jin, Huidong (*with* Shum, Wing-Ho; Leung, Kwong-Sak; Wong, Man-Leung) Expanding self-organizing map for data visualization and cluster analysis. (English summary)
Johnson, Mark Edward *see* **Geman, Stuart**, (**2005c:68009**)
Lai, Eugene *see* **Chou, Chien-Hsin et al.**
Leung, Kwong-Sak *see* **Jin, Huidong et al.**
Li, Xiao Yu² *see* **Brglez, Franc et al.**
Lin, Xiaodong *see* **Simmons, Susan J. et al.**, (**2005i:62003**)
Lubrano, Michel (*with* Protopopescu, Camelia) Density inference for ranking European research systems in the field of economics. (English summary) **2005g:62013**
Mukerjee, Hari *see* **El Barmi, Hammou**, **2005d:62052**
Protopopescu, Camelia *see* **Lubrano, Michel**, **2005g:62013**
Shum, Wing-Ho *see* **Jin, Huidong et al.**
Simmons, Susan J. (*with* Lin, Xiaodong; Beecher, Chris; Truong, Young; Young, S. Stanley) Active and passive learning to explore a complex metabolism data set. (English summary) (*see* **2005i:62003**)
Stallmann, Matthias F. *see* **Brglez, Franc et al.**
Su, Mu-Chun *see* **Chou, Chien-Hsin et al.**
Tao, Feng-mei (*with* Chen, Lan Sun; Xia, Li-xian) Correspondence analysis of body form characteristics of Chinese ethnic groups. (English summary)
Thomas, Neal Designs producing balanced missing data: examples from the National Assessment of Educational Progress. (*see* **2005m:62005**)
Truong, Young *see* **Simmons, Susan J. et al.**, (**2005i:62003**)
Wehenkel, Louis *see* **Ernst, Damien et al.**, (**2005c:68008**)
Wong, Man-Leung *see* **Jin, Huidong et al.**
Xia, Li-xian *see* **Tao, Feng-mei et al.**
Young, S. Stanley *see* **Simmons, Susan J. et al.**, (**2005i:62003**)

62Q05 Statistical tables

65–XX Numerical analysis

65–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Higham, Desmond J. (*with* Higham, Nicholas J.) ★ MATLAB guide.
Higham, Nicholas J. *see* **Higham, Desmond J.**
Kythe, Prem K. (*with* Schäferkotter, Michael R.) ★ Handbook of computational methods for integration.
Schäferkotter, Michael R. *see* **Kythe, Prem K.**

Items with secondary classifications in 65–00

(Ayache, Nicholas) *see* **Handbook: Numerical analysis, Vol. XII, 2005e:92001**
(Rachev, Svetlozar T.) *see* **Handbook: Computational and numerical methods in finance, 2005b:91009**

Items listed otherwise than by author

Handbook:
Computational and numerical methods in finance ★ Handbook of computational and numerical methods in finance. **2005b:91009**
Numerical analysis, Vol. XII ★ Handbook of numerical analysis. Vol. XII. **2005e:92001**

65–01 Instructional exposition (textbooks, tutorial papers, etc.)

(Augustson, Kyle) *see* **Landau, Rubin H., 2005k:65001**
Bang, Hyochoong *see* **Kwon, Young W.**
(Barnes, Connelly) *see* **Landau, Rubin H., 2005k:65001**
(Bordeianu, C. C.) *see* **Landau, Rubin H., 2005k:65001**
Cao, Wenwu *see* **Yang, Won Young et al.**
Chung, Tae-Sang *see* **Yang, Won Young et al.**
Denier, James P. *see* **Otto, S. R.**
Kaipio, Jari P. (*with* Somersalo, Erkki) ★ Statistical and computational inverse problems. **2005g:65001**
Kwon, Young W. (*with* Bang, Hyochoong) ★ The finite element method using MATLAB.
Landau, Rubin H. ★ A first course in scientific computing. **2005k:65001**
Morris, John *see* **Yang, Won Young et al.**
Otto, S. R. (*with* Denier, James P.) ★ An introduction to programming and numerical methods in MATLAB.
(Páez Mejía, Manuel José) *see* **Landau, Rubin H., 2005k:65001**
Plato, Robert ★ Numerische Mathematik kompakt. [Numerical mathematics in compact form]
— ★ Übungsbuch zur numerischen Mathematik. (German) [Exercise book for numerical mathematics]
Rahman, Matiur ★ Applied numerical analysis. **2005f:65001**
Reddy, J. N. ★ An introduction to nonlinear finite element analysis. **2005c:65001**
Sewell, Granville ★ Computational methods of linear algebra.
Somersalo, Erkki *see* **Kaipio, Jari P., 2005g:65001**
Stanoyevitch, Alexander ★ Introduction to MATLAB® with numerical preliminaries. **2005f:65002**
— ★ Introduction to numerical ordinary and partial differential equations using MATLAB®.
Tveito, Aslak (*with* Winther, Ragnar) ★ Introduction to partial differential equations. **2005g:65002**
(Wangberg, Robyn) *see* **Landau, Rubin H., 2005k:65001**
Winther, Ragnar *see* **Tveito, Aslak, 2005g:65002**
Yang, Won Young (*with* Cao, Wenwu; Chung, Tae-Sang; Morris, John) ★ Applied numerical methods using MATLAB®.
Zimmerman, William B. J. ★ Process modelling and simulation with finite element methods. **2005h:65001**

Items with secondary classifications in 65–01

Enns, Richard H. ★ Computer algebra recipes for mathematical physics. **2005f:00001**
Frolova, Yu. V. *see* **Korobitsyn, V. V.**
Korobitsyn, V. V. (*with* Frolova, Yu. V.) ★ Численные методы и программирование. (Russian) [Numerical methods and programming]
Lampret, Vito An invitation to Hermite's integration and summation: a comparison between Hermite's and Simpson's rules. (English summary) **2005m:65041**
Petrila, Titus (*with* Trif, Damian) ★ Basics of fluid mechanics and introduction to computational fluid dynamics. **2005h:76001**
Trif, Damian *see* **Petrila, Titus, 2005h:76001**

65–02 Research exposition (monographs, survey articles)

Argyros, Ioannis K. ★ Newton methods. **2005m:65001**
Ashyralyev, Allaberen (*with* Sobolevskii, Pavel E.) ★ New difference schemes for partial differential equations. **2005g:65003**
(Bailey, David H.) *see* **Bornemann, Folkmar et al., 2005c:65002**
(Bazán, Fermín S. V.) *see* **Viloche, Fermín, 2005b:65001**
Bernardi, Christine (*with* Maday, Yvon; Rapetti, Francesca) ★ Discrétisations variationnelles de problèmes aux limites elliptiques. (French) [Variational discretizations of elliptic boundary value problems] **2005g:65004**
Bornemann, Folkmar (*with* Laurie, D. P.; Wagon, Stan; Waldvogel, Jörg) ★ The SIAM 100-digit challenge. **2005c:65002**
Bouchut, François ★ Nonlinear stability of finite volume methods for hyperbolic conservation laws and well-balanced schemes for sources. **2005m:65002**
Brunner, Hermann ★ Collocation methods for Volterra integral and related functional differential equations. **2005k:65002**
Deuflhard, Peter ★ Newton methods for nonlinear problems. **2005h:65002**
Elishakoff, Isaac (*with* Ren, Yongjian) ★ Finite element methods for structures with large stochastic variations. **2005d:65001**
Ern, Alexandre (*with* Guermond, Jean-Luc) ★ Theory and practice of finite elements. **2005d:65002**
(Estep, Donald) *see* **Collected lectures on the preservation of stability under discretization, 2005h:65004**
Faragó, István (*with* Karátson, János) ★ Numerical solution of nonlinear elliptic problems via preconditioning operators: theory and applications. **2005g:65005**
(Glowinski, Roland) *see* **Conjugate gradient algorithms and finite element methods, 2005c:65003**
Guermond, Jean-Luc *see* **Ern, Alexandre, 2005d:65002**
Hageman, Louis A. (*with* Young, David M.) ★ Applied iterative methods. **2005e:65001**
Han, Weimin ★ A posteriori error analysis via duality theory. **2005k:65003**
Hari Dass, N. D. Computation—the new mathematics for sciences.
Ivanenko, S. A. ★ Selected chapters on grid generation and applications. **2005k:65004**
Karátson, János *see* **Faragó, István, 2005g:65005**
(Korotov, Sergey) *see* **Conjugate gradient algorithms and finite element methods, 2005c:65003**
(Křížek, Michal) *see* **Conjugate gradient algorithms and finite element methods, 2005c:65003**
Kuznetsov, E. B. *see* **Shalashilin, V. I., 2005e:65002**
Laurie, D. P. *see* **Bornemann, Folkmar et al., 2005c:65002**
Li, Shaofan (*with* Liu, Wing Kam) ★ Meshfree particle methods. **2005i:65001**
Liao, Shi-Jun ★ Beyond perturbation. **2005h:65003**
Liu, Wing Kam *see* **Li, Shaofan, 2005i:65001**
Maday, Yvon *see* **Bernardi, Christine et al., 2005g:65004**
Monk, P. B. ★ Finite element methods for Maxwell's equations. **2005d:65003**
Neittaanmäki, Pekka (*with* Repin, S. I.) ★ Reliable methods for computer simulation. **2005k:65005**
— *see also* **Conjugate gradient algorithms and finite element methods, 2005c:65003**
Ng, Michael K. ★ Iterative methods for Toeplitz systems. **2005i:65002**
Pozrikidis, C. ★ Introduction to finite and spectral element methods using MATLAB®. **2005m:65003**
Qu, Zu-Qing ★ Model order reduction techniques. **2005d:65004**
Rapetti, Francesca *see* **Bernardi, Christine et al., 2005g:65004**
Ren, Yongjian *see* **Elishakoff, Isaac, 2005d:65001**
Repin, S. I. *see* **Neittaanmäki, Pekka, 2005k:65005**
Schmidt, Alfred (*with* Siebert, Kunibert G.) ★ Design of adaptive finite element software. **2005i:65003**
Sewell, Granville ★ The numerical solution of ordinary and partial differential equations. **2005m:65004**
Shalashilin, V. I. (*with* Kuznetsov, E. B.) ★ Parametric continuation and optimal parametrization in applied mathematics and mechanics. **2005e:65002**
Siebert, Kunibert G. *see* **Schmidt, Alfred, 2005i:65003**
Sobolevskii, Pavel E. *see* **Ashyralyev, Allaberen, 2005g:65003**
Strikwerda, John C. ★ Finite difference schemes and partial differential equations. **2005i:65004**
Tarang, Mare ★ Stability of the spline collocation method for Volterra integro-differential equations. **2005e:65003**
(Tavener, Simon) *see* **Collected lectures on the preservation of stability under discretization, 2005h:65004**
Toselli, Andrea (*with* Widlund, Olof B.) ★ Domain decomposition methods—algorithms and theory. **2005g:65006**
Viloche, Fermín ★ Autovalores de polinômios matriciais: sensibilidade, computação e aplicações. [Eigenvalues of matrix polynomials: sensitivity, computation and applications] **2005b:65001**
Wagon, Stan *see* **Bornemann, Folkmar et al., 2005c:65002**
Waldvogel, Jörg *see* **Bornemann, Folkmar et al., 2005c:65002**
Widlund, Olof B. *see* **Toselli, Andrea, 2005g:65006**
Young, David M. *see* **Hageman, Louis A., 2005e:65001**

Items listed otherwise than by author

Collected lectures on the preservation of stability under discretization ★ Collected lectures on the preservation of stability under discretization. **2005h:65004**
Conjugate gradient algorithms and finite element methods ★ Conjugate gradient algorithms and finite element methods. **2005c:65003**
Fort Collins, CO ★ Collected lectures on the preservation of stability under discretization. **2005h:65004**

Items with secondary classifications in 65–02

Axelsson, Axel Ove Holger A survey of algebraic multilevel iteration (AMLI) methods. (English summary) **2005d:65039**
Baum, Joseph D. *see* **Löhner, Rainald**
Drikakis, Dimitris (*with* Rider, William) ★ High-resolution methods for incompressible and low-speed flows. **2005k:76001**
Filip, Diana Andrada ★ Numerical methods in the dynamics of the solid-fluid system. **2005e:76014**
(Gerschgorin, S. A.) *see* **Varga, Richard S., 2005h:15002**
(Harlow, Frank) *see* **Drikakis, Dimitris, 2005k:76001**
Joppich, Wolfgang *see* **Wienands, Roman, 2005h:65247**
Keyes, David E. Domain decomposition in the mainstream of computational science. (*see* **2005f:65003**)
Löhner, Rainald (*with* Baum, Joseph D.) 30 years of FCT: status and directions. (English summary)
Osher, Stanley Level set methods. (English summary) (*see* **2005a:94002**)
Pyt'ev, Yu. P. ★ Методы математического моделирования измерительно-вычислительных систем. (Russian. Russian summary) [Methods for the mathematical modeling of measuring-computing systems] **2005i:62002**
Ram-Mohan, L. Ramdas ★ Finite element and boundary element applications in quantum mechanics. **2005h:81001**
Rider, William *see* **Drikakis, Dimitris, 2005k:76001**
Sofo, Anthony ★ Computational techniques for the summation of series. **2005h:39002**

Terzopoulos, Demetri Deformable models: classic, topology-adaptive and generalized formulations. (English summary) (*see* **2005a:94002**)
Varga, Richard S. ★ Geršgorin and his circles. **2005h:15002**
Wienands, Roman (*with* Joppich, Wolfgang) ★ Practical Fourier analysis for multigrid methods. **2005h:65247**

65–03 Historical (must also be assigned at least one classification number from Section 01)

Tournès, Dominique Intégration numérique des équations différentielles: influence des instruments et des pratiques de calcul. [Numerical integration of differential equations: influence of computational tools and practice] **2005d:65005**

Items with secondary classifications in 65–03

Drygalla, Volker *see* **Zielke, Gerhard**, **2005d:65069**
(Gerschgorin, S. A.) *see* **Varga, Richard S.**, **2005h:15002**
Groetsch, Charles W. The delayed emergence of regularization theory. **2005b:01040**
(Kantorovich, Leonid Vital'evich) *see* **Kantorovich, V. L.**
Kantorovich, V. L. Some facts related to the papers by L. V. Kantorovich reproduced in this issue. (Russian)
Martínez Finkelshtein, Andrei Numerical analysis during the last 25 years. (Spanish. English and Spanish summaries)
Šolcová, Alena The founders of the conjugate gradient method. (*see* **2005c:65003**)
Varga, Richard S. ★ Geršgorin and his circles. **2005h:15002**
Zielke, Gerhard (*with* Drygalla, Volker) Genaue Lösung linearer Gleichungssysteme. [A sharp solution of linear systems] **2005d:65069**

65–04 Explicit machine computation and programs (not the theory of computation or programming)

Elmroth, Erik (*with* Gustavson, Fred G.; Jonsson, Isak; Kågström, Bo) Recursive blocked algorithms and hybrid data structures for dense matrix library software. (English summary) **2005h:65005**
Gustavson, Fred G. *see* **Elmroth, Erik et al.**, **2005h:65005**
Jonsson, Isak *see* **Elmroth, Erik et al.**, **2005h:65005**
Kågström, Bo *see* **Elmroth, Erik et al.**, **2005h:65005**
Persson, Per-Olof (*with* Strang, Gilbert) A simple mesh generator in Matlab. (English summary) **2005i:65005**
Strang, Gilbert *see* **Persson, Per-Olof**, **2005i:65005**

Items with secondary classifications in 65–04

Bartlett, Roscoe A. (*with* van Bloemen Waanders, Bart G.; Heroux, Michael A.) Vector reduction/transformation operators. (English summary) **2005d:65068**
Battles, Zachary (*with* Trefethen, Lloyd N.) An extension of MATLAB to continuous functions and operators. (English summary) **2005e:41001**
van Bloemen Waanders, Bart G. *see* **Bartlett, Roscoe A. et al.**, **2005d:65068**
Boivin, Charles (*with* Ollivier-Gooch, Carl) A toolkit for numerical simulation of PDEs. II. Solving generic multiphysics problems. (English summary)
Davis, Timothy A.[1] Algorithm 832: UMFPACK V4.3—an unsymmetric-pattern multifrontal method. (English summary)
Duff, Iain S. (*with* Scott, Jennifer A.) A parallel direct solver for large sparse highly unsymmetric linear systems. (English summary) **2005b:65052**
— MA57—a code for the solution of sparse symmetric definite and indefinite systems. (English summary)
Gao, Xiao-Wei Evaluation of regular and singular domain integrals with boundary-only discretization—theory and Fortran code. (English summary) **2005h:65036**
Hanson, Richard J. (*with* Hopkins, Tim) Algorithm 830: another visit with standard and modified Givens transformations and a remark on Algorithm 539. (English summary) **2005b:65047**
Heroux, Michael A. *see* **Bartlett, Roscoe A. et al.**, **2005d:65068**
Hopkins, Tim *see* **Hanson, Richard J.**, **2005b:65047**
Kashevarova, Tamara (*with* Semenov, Aleksandr Leonidovich) The use of the cooperative solver SibCalc in modeling of complex problems. (English summary) (*see* **2005c:00015**)
Kilian, Susanne (*with* Turek, Stefan) ★ The virtual album of fluid motion. **2005a:76001**
Ollivier-Gooch, Carl *see* **Boivin, Charles**
Renka, Robert J. Algorithm 828: DNSPLIN1: discrete nonlinear spline interpolation. (English summary) **2005b:65011**
— Algorithm 833: CSRFPACK—interpolation of scattered data with a C^1 convexity-preserving surface. (English summary) **2005b:65015**
— Algorithm 834: glsurf—an interactive surface plotting program using OpenGL. (English summary)
Rotkin, Vladimir (*with* Toledo, Sivan) The design and implementation of a new out-of-core sparse Cholesky factorization method. (English summary) **2005b:65028**
Schmidt, Alfred (*with* Siebert, Kunibert G.) ★ Design of adaptive finite element software. **2005i:65003**
Scott, Jennifer A. Parallel frontal solvers for large sparse linear systems. (English summary) **2005b:65053**
— *see also* **Duff, Iain S.**, **2005b:65052**
Semenov, Aleksandr Leonidovich *see* **Kashevarova, Tamara**, (**2005c:00015**)
Siebert, Kunibert G. *see* **Schmidt, Alfred**, **2005i:65003**
Stanoyevitch, Alexander ★ Introduction to MATLAB® with numerical preliminaries. **2005f:65002**
Toledo, Sivan *see* **Rotkin, Vladimir**, **2005b:65028**
Trefethen, Lloyd N. *see* **Battles, Zachary**, **2005e:41001**
Turek, Stefan *see* **Kilian, Susanne**, **2005a:76001**
Zimmerman, William B. J. ★ Process modelling and simulation with finite element methods. **2005h:65001**

65–06 Proceedings, conferences, collections, etc.

(Abramson, David) *see* **Computational science—ICCS 2003, Part IV**, **2005g:65007**
Adjerid, Slimane (*with* Moore, Peter K.; Teresco, James D.) Preface [Adaptive methods for partial differential equations and large-scale computation].
Apel, Thomas (*with* Meyer, Arnd) Preface [Selected papers from the 16th Chemnitz Finite Element Symposium 2003].
(Attinger, Sabine) *see* **Multiscale modelling and simulation**, **2005d:65007**
(Baines, Michael) *see* **Conference: Numerical Methods for Fluid Dynamics, 8th ICFD, Part 2**
(Bänsch, Eberhard) *see* **Challenges in scientific computing—CISC 2002**, **2005a:65001**
Billups, Stephen C. (*with* Knyazev, Andreĭ Vladimirovich; Mandel, Jan) Introduction [6th IMACS International Symposium on Iterative Methods in Scientific Computing].
Blaheta, Radim Preface [Iterative methods, preconditioning & numerical PDEs (IMET 2004)].
(Bogdanov, A. V.) *see* **Computational science—ICCS 2003, Part IV**, **2005g:65007**
(Brebbia, C. A.) *see* **Moving boundaries VII**, **2005b:65003** *and* **Boundary elements XXVI**, **2005d:65006**
(Brunnett, Guido) *see* **Geometric modelling**, **2005f:65004** *and* **2005g:65010**
(Čiegis, Raimondas) *see* **Finite difference schemes**, **2005c:65004**
Cockburn, Bernardo (*with* Shu, Chi-Wang) Foreword [Proceedings of the First International Symposium on DG Methods].
Cox, Christopher L. (*with* Ervin, Vincent J.; Gunzburger, Max D.) Dedication [Special issue in memory of Professor George J. Fix III].
(Cullen, Michael J. P.) *see* **Conference: Numerical Methods for Fluid Dynamics, 8th ICFD, Part 2**
Demkowicz, Leszek F. *see* **Whiteman, J. R.**
De Schepper, Hennie (*with* Van Keer, R.; Hogge, M.) Preface [Proceedings of the second International Conference on Advanced Computational Methods in Engineering].
(Dokken, Tor) *see* **Computational methods for algebraic spline surfaces**, **2005j:65001**
(Dolejší, Vít) *see* **Numerical mathematics and advanced applications**, **2005j:65003**
(Dongarra, Jack J.) *see* **Computational science—ICCS 2003, Part IV**, **2005g:65007**
(Drmač, Zlatko) *see* **Proceedings: Conference on Applied Mathematics and Scientific Computing, 3rd**, **2005j:65004**
Dular, Patrick (*with* Hameyer, Kay; Henneberger, Gerhard) Preface [Special issue on The 6th International Symposium on Electric and Magnetic Fields (EMF)].
Ervin, Vincent J. *see* **Cox, Christopher L. et al.**
(Farin, Gerald) *see* **Hierarchical and geometrical methods in scientific visualization**, **2005a:65002**; **Geometric modelling**, **2005f:65004** *and* **2005g:65010**
(Farmer, Christopher) *see* **Conference: Numerical Methods for Fluid Dynamics, 8th ICFD, Part 2**
(Feistauer, Miloslav) *see* **Numerical mathematics and advanced applications**, **2005j:65003**
(Fix, George J., III) *see* **Cox, Christopher L. et al.**
(Gavrilova, Marina L.) *see* **Computational science and its applications—ICCSA 2003, Part I**, **2005g:65008** *and* **Computational science and its applications—ICCSA 2003, Part II**, **2005g:65009**
(Giles, Michael B.) *see* **Conference: Numerical Methods for Fluid Dynamics, 8th ICFD, Part 2**
Gladwell, Ian *see* **Simos, T. E.**
(Goldman, Ronald N.) *see* **Geometric modelling**, **2005f:65004** *and* **2005g:65010**
(Gorbachev, Yu. E.) *see* **Computational science—ICCS 2003, Part IV**, **2005g:65007**
Gunzburger, Max D. *see* **Cox, Christopher L. et al.**
(Hagen, Hans) *see* **Hierarchical and geometrical methods in scientific visualization**, **2005a:65002**
(Hahmann, Stefanie) *see* **Geometric modelling**, **2005f:65004** *and* **2005g:65010**
(Hamann, Bernd) *see* **Hierarchical and geometrical methods in scientific visualization**, **2005a:65002**
Hameyer, Kay *see* **Dular, Patrick et al.**
Henneberger, Gerhard *see* **Dular, Patrick et al.**
(Herrera, Ismael) *see* **Domain decomposition methods in science and engineering**, **2005f:65003**
Hogge, M. *see* **De Schepper, Hennie et al.**
(Il'in, Valeriĭ Pavlovich) *see* **Conference: Computational Mathematics, International, Part I, II**, **2005i:65006**
(Jüttler, Bert) *see* **Computational methods for algebraic spline surfaces**, **2005j:65001**
(Keyes, David E.) *see* **Domain decomposition methods in science and engineering**, **2005f:65003**
(Knobloch, Petr) *see* **Numerical mathematics and advanced applications**, **2005j:65003**
Knyazev, Andreĭ Vladimirovich *see* **Billups, Stephen C. et al.**
(Koumoutsakos, Petros) *see* **Multiscale modelling and simulation**, **2005d:65007**
(Kumar, Vipin) *see* **Computational science and its applications—ICCSA 2003, Part I**, **2005g:65008** *and* **Computational science and its applications—ICCSA 2003, Part II**, **2005g:65009**
(Laevskiĭ, Yu. M.) *see* **Conference: Computational Mathematics, International, Part I, II**, **2005i:65006**
(L'Ecuyer, Pierre) *see* **Computational science and its applications—ICCSA 2003, Part I**, **2005g:65008** *and* **Computational science and its applications—ICCSA 2003, Part II**, **2005g:65009**
(Lucian, Miriam L.) *see* **Geometric modeling and computing: Seattle 2003**, **2005i:65007**
(Mammoli, A. A.) *see* **Moving boundaries VII**, **2005b:65003**
Mandel, Jan *see* **Billups, Stephen C. et al.**
(Marušić, Miljenko) *see* **Proceedings: Conference on Applied Mathematics and Scientific Computing, 3rd**, **2005j:65004**
Meyer, Arnd *see* **Apel, Thomas**
(Mikhailov, Gennadii A.) *see* **Conference: Computational Mathematics, International, Part I, II**, **2005i:65006**
Moore, Peter K. *see* **Adjerid, Slimane et al.**
(Najzar, K.) *see* **Numerical mathematics and advanced applications**, **2005j:65003**
(Neamtu, Marian) *see* **Geometric modeling and computing: Seattle 2003**, **2005i:65007**
Ng, Esmond G. (*with* Tang, Wei-Pai) Editorial comments [Special issue: preconditioning 2001. Part II].

(Niederreiter, Harald) *see* **Monte Carlo and quasi-Monte Carlo methods 2002, 2005b:65002**
Pistella, Francesca (*with* Spitaleri, Rosa Maria) Preface [Special issue on applied scientific computing: advances in grid generation, approximation and numerical modeling].
Psihoyios, G. *see* **Simos, T. E.**
(Rabbitt, Michael) *see* **Conference: Numerical Methods for Fluid Dynamics, 8th ICFD, Part 2**
(Samarskiĭ, Aleksandr Andreevich) *see* **Finite difference schemes, 2005c:65004**
(Sapagovas, M.) *see* **Finite difference schemes, 2005c:65004**
Shu, Chi-Wang *see* **Cockburn, Bernardo**
Simos, T. E. (*with* Gladwell, Ian) Preface [Numerical solution of ODEs].
— (*with* Psihoyios, G.) Preface [Selected papers of the International Conference on Computational Methods in Sciences and Engineering (ICCMSE 2003)].
— *see also* **ICNAAM 2004, 2005j:65002**
(Sloot, Peter M. A.) *see* **Computational science—ICCS 2003, Part IV, 2005g:65007**
Sommeijer, Ben P. (*with* Verwer, Jan G.; Strehmel, Karl; Weiner, Rüdiger) Preface [Tenth Seminar on Numerical Solution of Differential and Differential-Algebraic Equations].
Spitaleri, Rosa Maria Preface [Applied scientific computing–grid generation, approximated solutions and visualization].
— *see also* **Pistella, Francesca**
Strehmel, Karl *see* **Sommeijer, Ben P. et al.**
(Tan, Chih Jeng Kenneth) *see* **Computational science and its applications—ICCSA 2003, Part I, 2005g:65008** *and* **Computational science and its applications—ICCSA 2003, Part II, 2005g:65009**
Tang, Wei-Pai *see* **Ng, Esmond G.**
Teresco, James D. *see* **Adjerid, Slimane et al.**
(Tsitouras, Ch.) *see* **ICNAAM 2004, 2005j:65002**
(Tutek, Zvonimir) *see* **Proceedings: Conference on Applied Mathematics and Scientific Computing, 3rd, 2005j:65004**
Van Keer, R. *see* **De Schepper, Hennie et al.**
Verwer, Jan G. *see* **Sommeijer, Ben P. et al.**
Weiner, Rüdiger *see* **Sommeijer, Ben P. et al.**
Whiteman, J. R. (*with* Demkowicz, Leszek F.) Preface [Selected papers from the 11th Conference on the Mathematics of Finite Elements and Applications (MAFELAP 2003)].
(Widlund, Olof B.) *see* **Domain decomposition methods in science and engineering, 2005f:65003**
(Yates, Robert E.) *see* **Domain decomposition methods in science and engineering, 2005f:65003**
(Zomaya, Albert Y.) *see* **Computational science—ICCS 2003, Part IV, 2005g:65007**

Items listed otherwise than by author

Berlin ★ Challenges in scientific computing—CISC 2002. **2005a:65001**
Bologna ★ Boundary elements XXVI. **2005d:65006**
Boundary elements XXVI ★ Boundary elements XXVI. **2005d:65006**
Brijuni ★ Proceedings of the Conference on Applied Mathematics and Scientific Computing. **2005j:65004**
Chalkis ★ ICNAAM 2004. **2005j:65002**
Challenges in scientific computing—CISC 2002 ★ Challenges in scientific computing—CISC 2002. **2005a:65001**
Cocoyoc ★ Domain decomposition methods in science and engineering. **2005f:65003**
Computational methods for algebraic spline surfaces ★ Computational methods for algebraic spline surfaces. **2005j:65001**
Computational science and its applications—ICCSA 2003, Part I ★ Computational science and its applications—ICCSA 2003. Part I. **2005g:65008**
Computational science and its applications—ICCSA 2003, Part II ★ Computational science and its applications—ICCSA 2003. Part II. **2005g:65009**
Computational science—ICCS 2003, Part IV ★ Computational science—ICCS 2003. Part IV. **2005g:65007**
Conference:
  Computational Mathematics, International, Part I, II ★ International Conference on Computational Mathematics. Part I, II. **2005i:65006**
  Numerical Methods for Fluid Dynamics, 8th ICFD, Part 2 ★ 8th ICFD Conference on Numerical Methods for Fluid Dynamics. Part 2.
Dagstuhl ★ Geometric modelling. **2005g:65010**
Domain decomposition methods in science and engineering ★ Domain decomposition methods in science and engineering. **2005f:65003**
Finite difference schemes ★ Finite difference schemes. **2005c:65004**
Geometric modeling and computing: Seattle 2003 ★ Geometric modeling and computing: Seattle 2003. **2005i:65007**
Geometric modelling ★ Geometric modelling. **2005f:65004**
— ★ Geometric modelling. **2005g:65010**
Hierarchical and geometrical methods in scientific visualization ★ Hierarchical and geometrical methods in scientific visualization. **2005a:65002**
ICNAAM 2004 ★ ICNAAM 2004. **2005j:65002**
Kefermarkt ★ Computational methods for algebraic spline surfaces. **2005j:65001**
Lecture Notes in Computer Science ★ Computational science—ICCS 2003. Part IV. **2005g:65007**
— ★ Computational science and its applications—ICCSA 2003. Part I. **2005g:65008**
— ★ Computational science and its applications—ICCSA 2003. Part II. **2005g:65009**
Lugano ★ Multiscale modelling and simulation. **2005d:65007**
Melbourne ★ Computational science—ICCS 2003. Part IV. **2005g:65007**
Monte Carlo and quasi-Monte Carlo methods 2002 ★ Monte Carlo and quasi-Monte Carlo methods 2002. **2005b:65002**
Montreal, QC ★ Computational science and its applications—ICCSA 2003. Part I. **2005g:65008**
— ★ Computational science and its applications—ICCSA 2003. Part II. **2005g:65009**
Moving boundaries VII ★ Moving boundaries VII. **2005b:65003**
Multiscale modelling and simulation ★ Multiscale modelling and simulation. **2005d:65007**
Novosibirsk ★ International Conference on Computational Mathematics. Part I, II. **2005i:65006**
Numerical mathematics and advanced applications ★ Numerical mathematics and advanced applications. **2005j:65003**
Oxford ★ 8th ICFD Conference on Numerical Methods for Fluid Dynamics. Part 2.
Palanga ★ Finite difference schemes. **2005c:65004**
Prague ★ Numerical mathematics and advanced applications. **2005j:65003**
Proceedings:
  Conference on Applied Mathematics and Scientific Computing, 3rd ★ Proceedings of the Conference on Applied Mathematics and Scientific Computing. **2005j:65004**
Santa Fe, NM ★ Moving boundaries VII. **2005b:65003**
Seattle, WA ★ Geometric modeling and computing: Seattle 2003. **2005i:65007**
Singapore ★ Monte Carlo and quasi-Monte Carlo methods 2002. **2005b:65002**
St. Petersburg ★ Computational science—ICCS 2003. Part IV. **2005g:65007**
Tahoe City, CA ★ Hierarchical and geometrical methods in scientific visualization. **2005a:65002**

Items with secondary classifications in 65–06

(Abramson, David) *see* **Computational science—ICCS 2003. Part I, 2005c:00014; Computational science—ICCS 2003. Part II, 2005c:00015** *and* **Computational science—ICCS 2003. Part III, 2005g:00014**
Anastassiou, George A. Preface [Proceedings of the Special Session on Computational Methods in Analysis].
(Ayache, Nicholas) *see* **Handbook: Numerical analysis, Vol. XII, 2005e:92001**
Baines, Michael Preface [Special issue: 8th ICFD conference on Numerical Methods for Fluid Dynamics. Part 1].
(Bogdanov, A. V.) *see* **Computational science—ICCS 2003. Part I, 2005c:00014; Computational science—ICCS 2003. Part II, 2005c:00015** *and* **Computational science—ICCS 2003. Part III, 2005g:00014**
(Breitkopf, Piotr) *see* **Meshfree & particle based approaches in computational mechanics, 2005f:74002**
(Chen, Fa-Lai) *see* **Geometric computation, 2005c:68006**
(Chetverushkin, B. N.) *see* **Parallel computational fluid dynamics, 2005b:76005**
(Chui, Charles K.) *see* **Approximation theory XI: Gatlinburg 2004, 2005j:41002**
(Cohen, Gary C.) *see* **Mathematical and numerical aspects of wave propagation—WAVES 2003, 2005b:00020**
(Dmitriev, Vyacheslav Ivanovich) *see* **Samarskiĭ, Aleksandr Andreevich, 2005f:01016**
(Dongarra, Jack J.) *see* **Computational science—ICCS 2003. Part I, 2005c:00014; Computational science—ICCS 2003. Part II, 2005c:00015** *and* **Computational science—ICCS 2003. Part III, 2005g:00014**
Eberhardsteiner, Josef (*with* Mang, Herbert A.; Rammerstorfer, Franz G.) Preface [Special issue on The Fifth World Congress on Computational Mechanics].
(Ecer, A.) *see* **Parallel computational fluid dynamics, 2005b:76005**
(Elizarov, A. M.) *see* **Numerical methods for solving linear and nonlinear boundary value problems, 2005b:00029**
Emiris, Ioannis Z. (*with* Mourrain, Bernard; Pan, Victor Ya.) Preface [Algebraic and numberical algorithms].
(Estep, Donald) *see* **Collected lectures on the preservation of stability under discretization, 2005h:65004**
(Fox, Patricia L.) *see* **Parallel computational fluid dynamics, 2005b:76005**
(Glowinski, Roland) *see* **Conjugate gradient algorithms and finite element methods, 2005c:65003**
(Gorbachev, Yu. E.) *see* **Computational science—ICCS 2003. Part I, 2005c:00014; Computational science—ICCS 2003. Part II, 2005c:00015** *and* **Computational science—ICCS 2003. Part III, 2005g:00014**
(Gulin, A. V.) *see* **Samarskiĭ, Aleksandr Andreevich, 2005f:01016**
(Heikkola, Erkki) *see* **Mathematical and numerical aspects of wave propagation—WAVES 2003, 2005b:00020**
(Huerta, Antonio) *see* **Meshfree & particle based approaches in computational mechanics, 2005f:74002**
(Joly, Patrick) *see* **Mathematical and numerical aspects of wave propagation—WAVES 2003, 2005b:00020**
Kawahara, Mutsuto Editorial [12th International Conference on Finite Element Methods in Fluids].
Klein, Rolf Foreword [Special issue on the 19th European Workshop on Computational Geometry—EuroCG 03].
(Korotov, Sergey) *see* **Conjugate gradient algorithms and finite element methods, 2005c:65003**
(Křížek, Michal) *see* **Conjugate gradient algorithms and finite element methods, 2005c:65003**
(Kulkarni, S. H.) *see* **Linear algebra, numerical functional analysis and wavelet analysis, 2005d:47001**
(Lapin, A. V.) *see* **Numerical methods for solving linear and nonlinear boundary value problems, 2005b:00029**
Mang, Herbert A. *see* **Eberhardsteiner, Josef et al.**
Martínez, José Mario (*with* Yuan, Jin Yun) Preface [Theory and practice in optimization].
Mourrain, Bernard *see* **Emiris, Ioannis Z. et al.**
(Namboodiri, M. N. N.) *see* **Linear algebra, numerical functional analysis and wavelet analysis, 2005d:47001**
(Neamtu, Marian) *see* **Approximation theory XI: Gatlinburg 2004, 2005j:41002**
(Neittaanmäki, Pekka) *see* **Mathematical and numerical aspects of wave propagation—WAVES 2003, 2005b:00020** *and* **Conjugate gradient algorithms and finite element methods, 2005c:65003**
Pan, Victor Ya. *see* **Emiris, Ioannis Z. et al.**
(Periaux, Jacques) *see* **Parallel computational fluid dynamics, 2005b:76005**
Rammerstorfer, Franz G. *see* **Eberhardsteiner, Josef et al.**
Samarskiĭ, Aleksandr Andreevich ★ Избранные труды А. А. Самарского. (Russian) [Selected works of A. A. Samarskiĭ] **2005f:01016**
(Satofuka, N.) *see* **Parallel computational fluid dynamics, 2005b:76005**
(Schumaker, Larry L.) *see* **Approximation theory XI: Gatlinburg 2004, 2005j:41002**
(Sloot, Peter M. A.) *see* **Computational science—ICCS 2003. Part I, 2005c:00014; Computational science—ICCS 2003. Part II, 2005c:00015** *and* **Computational science—ICCS 2003. Part III, 2005g:00014**

Streinu, Ileana Editorial [Special issue on the 10th Fall Workshop on Computational Geometry].
(Tavener, Simon) *see* **Collected lectures on the preservation of stability under discretization, 2005h:65004**
(Wang, Dongming) *see* **Geometric computation, 2005c:68006**
Yuan, Jin Yun *see* **Martínez, José Mario**
(Zomaya, Albert Y.) *see* **Computational science—ICCS 2003. Part I, 2005c:00014; Computational science—ICCS 2003. Part II, 2005c:00015** *and* **Computational science—ICCS 2003. Part III, 2005g:00014**

Items listed otherwise than by author

Approximation theory XI: Gatlinburg 2004 ★ Approximation theory XI: Gatlinburg 2004. **2005j:41002**
Collected lectures on the preservation of stability under discretization ★ Collected lectures on the preservation of stability under discretization. **2005h:65004**
Collected Works:
Samarskiĭ, Aleksandr Andreevich *see* **Samarskiĭ, Aleksandr Andreevich, 2005f:01016**
Computational science—ICCS 2003. Part I ★ Computational science—ICCS 2003. Part I. **2005c:00014**
Computational science—ICCS 2003. Part II ★ Computational science—ICCS 2003. Part II. **2005c:00015**
Computational science—ICCS 2003. Part III ★ Computational science—ICCS 2003. Part III. **2005g:00014**
Conjugate gradient algorithms and finite element methods ★ Conjugate gradient algorithms and finite element methods. **2005c:65003**
Fort Collins, CO ★ Collected lectures on the preservation of stability under discretization. **2005h:65004**
Gatlinburg, TN ★ Approximation theory XI: Gatlinburg 2004. **2005j:41002**
Geometric computation ★ Geometric computation. **2005c:68006**
Handbook:
Numerical analysis, Vol. XII ★ Handbook of numerical analysis. Vol. XII. **2005e:92001**
Hefei ★ Geometric computation. **2005c:68006**
Jyväskylä ★ Mathematical and numerical aspects of wave propagation—WAVES 2003. **2005b:00020**
Kazan′ ★ Численные методы решения линейных и нелинейных краевых задач. (Russian) [Numerical methods for solving linear and nonlinear boundary value problems] **2005b:00029**
Kochi ★ Linear algebra, numerical functional analysis and wavelet analysis. **2005d:47001**
Lecture Notes in Computer Science ★ Computational science—ICCS 2003. Part I. **2005c:00014**
— ★ Computational science—ICCS 2003. Part II. **2005c:00015**
— ★ Computational science—ICCS 2003. Part III. **2005g:00014**
Linear algebra, numerical functional analysis and wavelet analysis ★ Linear algebra, numerical functional analysis and wavelet analysis. **2005d:47001**
Mathematical and numerical aspects of wave propagation—WAVES 2003 ★ Mathematical and numerical aspects of wave propagation—WAVES 2003. **2005b:00020**
Melbourne ★ Computational science—ICCS 2003. Part I. **2005c:00014**
— ★ Computational science—ICCS 2003. Part II. **2005c:00015**
— ★ Computational science—ICCS 2003. Part III. **2005g:00014**
Meshfree & particle based approaches in computational mechanics ★ Meshfree & particle based approaches in computational mechanics. **2005f:74002**
Moscow ★ Parallel computational fluid dynamics. **2005b:76005**
Numerical methods for solving linear and nonlinear boundary value problems ★ Численные методы решения линейных и нелинейных краевых задач. (Russian) [Numerical methods for solving linear and nonlinear boundary value problems] **2005b:00029**
Parallel computational fluid dynamics ★ Parallel computational fluid dynamics. **2005b:76005**
St. Petersburg ★ Computational science—ICCS 2003. Part I. **2005c:00014**
— ★ Computational science—ICCS 2003. Part II. **2005c:00015**
— ★ Computational science—ICCS 2003. Part III. **2005g:00014**

65A05 Tables

65Bxx Acceleration of convergence

65B05 Extrapolation to the limit, deferred corrections

Brezinski, Claude (*with* Redivo-Zaglia, Michela) New vector sequence transformations. (English summary) **2005h:65006**
Cadou, J. M. *see* **Damil, Noureddine et al.**
Damil, Noureddine (*with* Cadou, J. M.; Potier-Ferry, Michel) Mathematical and numerical connections between polynomial extrapolation and Padé approximants: applications in structural mechanics. (English summary)
Jézéquel, Fabienne Dynamical control of converging sequences computation. (English summary) **2005b:65004**
Ozawa, Kazufumi Super-quadratic convergence in Aitken Δ^2 process. (English summary) **2005e:65004**
Potier-Ferry, Michel *see* **Damil, Noureddine et al.**
Redivo-Zaglia, Michela *see* **Brezinski, Claude, 2005h:65006**

Items with secondary classifications in 65B05

Ben Taher, Rajae (*with* Rachidi, Mustapha) On the E-algorithm for polynomial roots and linear recurrence relations. **2005i:11017**
Calugaru, Dan-Gabriel (*with* Tromeur-Dervout, Damien) Aitken acceleration of Dirichlet-Neumann algorithm for flow in porous media with discontinuous permeability. (English summary) (*see* **2005b:76005**)
Rachidi, Mustapha *see* **Ben Taher, Rajae, 2005i:11017**
Tromeur-Dervout, Damien *see* **Calugaru, Dan-Gabriel, (2005b:76005)**

65B10 Summation of series

Buslenko, A. S. (*with* Ikramov, Kh. D.) On the multiplication of numerical and matrix power series. (Russian. Russian summary)
Demmel, James (*with* Hida, Yozo) Fast and accurate floating point summation with application to computational geometry. (English summary)
Hanrot, Guillaume (*with* Zimmermann, Paul) A long note on Mulders' short product. (English summary) **2005g:65011**
He, Tian Xiao (*with* Hsu, Leetsch Charles; Shiue, Peter J. S.; Torney, David C.) A symbolic operator approach to several summation formulas for power series. (English summary) **2005i:65008**
Hida, Yozo *see* **Demmel, James**
Hsu, Leetsch Charles *see* **He, Tian Xiao et al., 2005i:65008**
Ikramov, Kh. D. *see* **Buslenko, A. S.**
Kondrat'eva, Margarita (*with* Sadov, Sergey) Markov's transformation of series and the WZ method. (English summary) **2005k:65006**
Pemantle, Robin A probabilistic model for the degree of the cancellation polynomial in Gosper's algorithm. (English summary) **2005i:65009**
Sadov, Sergey *see* **Kondrat'eva, Margarita, 2005k:65006**
Shiue, Peter J. S. *see* **He, Tian Xiao et al., 2005i:65008**
Torney, David C. *see* **He, Tian Xiao et al., 2005i:65008**
Zimmermann, Paul *see* **Hanrot, Guillaume, 2005g:65011**

Items with secondary classifications in 65B10

Almkvist, Gert (*with* Krattenthaler, Christian; Petersson, Lennart Joakim Herbert) Some new formulas for π. (English summary) **2005c:11165**
Brezinski, Claude Extrapolation algorithms for filtering series of functions, and treating the Gibbs phenomenon. (English summary) **2005g:42005**
Butzer, Paul L. Bernoulli functions, Hilbert-type Poisson summation formulae, partial fraction expansions, and Hilbert-Eisenstein series. (English summary) **2005k:11038**
Demmel, James (*with* Hida, Yozo) Accurate and efficient floating point summation. (English summary) **2005b:65055**
Elsner, Carsten On recurrence formulae for sums involving binomial coefficients. **2005m:11027**
Hida, Yozo *see* **Demmel, James, 2005b:65055**
Krattenthaler, Christian *see* **Almkvist, Gert et al., 2005c:11165**
Lampret, Vito Wallis sequence estimated through the Euler-Maclaurin formula: even from the Wallis product π could be computed fairly accurately. (English summary) **2005h:40007**
— An invitation to Hermite's integration and summation: a comparison between Hermite's and Simpson's rules. (English summary) **2005m:65041**
Petersson, Lennart Joakim Herbert *see* **Almkvist, Gert et al., 2005c:11165**
Sofo, Anthony ★ Computational techniques for the summation of series. **2005h:39002**
Thukral, R. A family of the Levin-type algorithms for accelerating convergence of sequence. (English summary)

65B15 Euler-Maclaurin formula

Sidi, Avram Euler-Maclaurin expansions for integrals with endpoint singularities: a new perspective. (English summary) **2005g:65012**

Items with secondary classifications in 65B15

Dasgupta, Anirban[1] A unified method to sum a variety of infinite series, with applications. (English summary) **2005b:40005**
Kanemitsu, Shigeru (*with* Kumagai, H.; Srivastava, Hari M.; Yoshimoto, Masami) Some integral and asymptotic formulas associated with the Hurwitz zeta function. (English summary) **2005g:11160**
Kumagai, H. *see* **Kanemitsu, Shigeru et al., 2005g:11160**
Lampret, Vito Wallis sequence estimated through the Euler-Maclaurin formula: even from the Wallis product π could be computed fairly accurately. (English summary) **2005h:40007**
Lyness, J. N. (*with* Monegato, Giovanni) Asymptotic expansions for two-dimensional hypersingular integrals. (English summary) **2005m:65042**
Monegato, Giovanni *see* **Lyness, J. N., 2005m:65042**
Srivastava, Hari M. *see* **Kanemitsu, Shigeru et al., 2005g:11160**
Yoshimoto, Masami *see* **Kanemitsu, Shigeru et al., 2005g:11160**

65B99 None of the above, but in this section

Boyd, John Philip Trouble with Gegenbauer reconstruction for defeating Gibbs' phenomenon: Runge phenomenon in the diagonal limit of Gegenbauer polynomial approximations. (English summary) **2005m:65005**
Hanrot, Guillaume (*with* Quercia, Michel; Zimmermann, Paul) The middle product algorithm. I. (English summary) **2005a:65003**
Lu, Jian Hua (*with* Wang, Neng Chao) An improved ε-method. (Chinese. English and Chinese summaries)
Quercia, Michel *see* **Hanrot, Guillaume et al., 2005a:65003**
Wang, Neng Chao *see* **Lu, Jian Hua**
Zimmermann, Paul *see* **Hanrot, Guillaume et al., 2005a:65003**

Items with secondary classifications in 65B99

Naris, S. *see* **Valougeorgis, D., 2005a:76143**
Valougeorgis, D. (*with* Naris, S.) Acceleration schemes of the discrete velocity method: gaseous flows in rectangular microchannels. (English summary) **2005a:76143**

65Cxx Probabilistic methods, simulation and stochastic differential equations {For theoretical aspects, see 68U20 and 60H35.}

Items with secondary classifications in 65Cxx

Casella, George *see* **Robert, Christian P., 2005d:62006**
Liao, Shi-Jun ★ Beyond perturbation. **2005h:65003**
Robert, Christian P. (*with* Casella, George) ★ Monte Carlo statistical methods. **2005d:62006**

65C05 Monte Carlo methods

Aggarwal, Vikram *see* **Srinivasan, Ashok**, (2005i:00014)
Al-Awadhi, Fahimah (*with* Hurn, Merrilee; Jennison, Christopher) Improving the acceptance rate of reversible jump MCMC proposals. (English summary) **2005f:65005**
Alexandrov, Vassil (*with* Atanassov, Emanouil I.; Dimov, Ivan T.) Parallel quasi-Monte Carlo methods for linear algebra problems. (English summary)
Artés, Jordi *see* **Mateu, Jorge et al., 2005b:65006**
Atanassov, Emanouil I. *see* **Alexandrov, Vassil et al.**
Ben-Ameur, Hatem (*with* L'Ecuyer, Pierre; Lemieux, Christiane) Combination of general antithetic transformations and control variables. (English summary) **2005i:65010**
Bosi, Francesco *see* **Marseguerra, Marzio et al.**
Boyle, Phelim P. Finance: a fertile field for applications of MC and QMC. (English summary) (*see* **2005b:65002**)
Cappé, Olivier (*with* Guillin, Arnaud; Marin, Jean-Michel; Robert, Christian P.) Population Monte Carlo. (English summary)
Chan, Raymond H. (*with* Chen, Yong; Yeung, K. M.) A memory reduction method in pricing American options. (English summary) **2005h:65007**
Chawla, Man M. Numerov-type P-stable linearly implicit schemes for second order initial value problems. (English summary)
Chen, Yong *see* **Chan, Raymond H. et al., 2005h:65007**
Cheng, Ming-Cheng *see* **Shen, Min et al.**, (2005g:65009)
Cools, Ronald *see* **Pillards, Tim**
Del Moral, Pierre (*with* Doucet, Arnaud) On a class of genealogical and interacting Metropolis models. (English summary) **2005g:65013**
Dey, Partha Pratim *n*th root: a Monte Carlo approximation. (English summary) **2005f:65006**
Diaconis, Persi *see* **Stein, Charles et al., 2005j:65005**
Dick, Josef (*with* Sloan, Ian H.; Wang, Xiaoqun[1]; Woźniakowski, Henryk) Liberating the weights. (English summary) **2005h:65008**
— *see also* **Wang, Xiaoqun[1] et al., 2005j:65006**
Dimov, Ivan T. *see* **Alexandrov, Vassil et al.**
Doucet, Arnaud *see* **Del Moral, Pierre**, 2005g:65013
Eastman, Warren *see* **Ökten, Giray**, 2005g:65018
Eidsvik, Jo *see* **Tjelmeland, Håkon**, 2005k:65009
Elishakoff, Isaac Notes on philosophy of the Monte Carlo method. (English and Ukrainian summaries) **2005d:65008**
Fan, Juanjuan *see* **Levine, Richard A., 2005c:65005**
Farnell, L. (*with* Gibson, W. G.) Monte Carlo simulation of diffusion in a spatially nonhomogeneous medium: correction to the Gaussian steplength. (English summary) **2005b:65005**
Frieze, Alan (*with* Kannan, Ravi; Vempala, Santosh S.) Fast Monte-Carlo algorithms for finding low-rank approximations. (English summary) **2005m:65006**
(Frigessi di Rattalma, Arnoldo) *see* **Roberts, Gareth O.**, (2005b:62009)
Gibson, W. G. *see* **Farnell, L., 2005b:65005**
Guillin, Arnaud *see* **Cappé, Olivier et al.**
Hartinger, Jürgen (*with* Kainhofer, Reinhold F.; Tichy, Robert F.) Quasi-Monte Carlo algorithms for unbounded, weighted integration problems. (English summary) **2005g:65014**
Heinrich, Stefan (*with* Novak, Erich; Pfeiffer, Harald P.) How many random bits do we need for Monte Carlo integration? (English summary) **2005g:65015**
Henderson, Shane G. (*with* Simon, Burt) Adaptive simulation using perfect control variates. (English summary) **2005h:65009**
Holmes, Susan *see* **Stein, Charles et al., 2005j:65005**
Hörmann, Wolfgang *see* **Leydold, Josef, 2005k:65008**
Huang, Yong Dong (*with* Zhao, Shuang Suo; Zhu, Feng Juan) A class of one step methods for solving initial value problems of ordinary differential equations. (Chinese. English and Chinese summaries)
Hurn, Merrilee *see* **Al-Awadhi, Fahimah et al., 2005f:65005**
Ivanovska, Sofiya Monte Carlo method for reconstruction of densities. (English summary) **2005f:65007**
Jennison, Christopher *see* **Al-Awadhi, Fahimah et al., 2005f:65005**
Kainhofer, Reinhold F. *see* **Hartinger, Jürgen et al., 2005g:65014**
Kannan, Ravi *see* **Frieze, Alan et al., 2005m:65006**
Karaivanova, Aneta (*with* Mascagni, Michael; Simonov, Nikolai A.) Parallel quasirandom walks on the boundary. (English summary)
— *see also* **Rasulov, Abdujabor et al.**
Keller, Alexander Trajectory splitting by restricted replication. (English summary)
Khisamutdinov, A. I. On some properties of Monte Carlo methods and Markov processes for the inhomogeneous Boltzmann equation. (Russian) **2005m:65007**
Kong, Rong *see* **Spanier, Jerome**, (2005b:65002)
Kucherenko, Sergei *see* **Sobol′, I. M., 2005m:65009**
Kuo, Frances Y. (*with* Sloan, Ian H.) Quasi-Monte Carlo methods can be efficient for integration over products of spheres. (English summary) **2005k:65007**
Kuroda, Masahiro Markov chain Monte Carlo. (*see* **2005f:62005**)
Lécot, Christian (*with* Tuffin, Bruno) Quasi-Monte Carlo methods for estimating transient measures of discrete time Markov chains. (English summary) (*see* **2005b:65002**)
L'Ecuyer, Pierre Polynomial integration lattices. (English summary) (*see* **2005b:65002**)
— *see also* **Ben-Ameur, Hatem et al., 2005i:65010**
Lemieux, Christiane *see* **Ben-Ameur, Hatem et al., 2005i:65010**
Levine, Richard A. (*with* Fan, Juanjuan) An automated (Markov chain) Monte Carlo EM algorithm. (English summary) **2005c:65005**
Levykin, A. I. *see* **Sabelfeld, Karl K. et al.**
Leydold, Josef (*with* Hörmann, Wolfgang) Smoothed transformed density rejection. (English summary) **2005k:65008**
Li, Yaohang (*with* Mascagni, Michael) Grid-based quasi-Monte Carlo applications. (English summary) **2005m:65008**
López, José A. *see* **Mateu, Jorge et al., 2005b:65006**
Lotova, G. Z. (*with* Mikhailov, Gennadii A.) New Monte Carlo methods for estimating time dependences in radiation transfer processes. (Russian. Russian summary) **2005g:65016**
— *see also* **Mikhailov, Gennadii A.**
Marin, Jean-Michel *see* **Cappé, Olivier et al.**
Marseguerra, Marzio (*with* Zio, Enrico; Bosi, Francesco) System availability and reliability analysis by direct Monte Carlo with biasing. (English summary)
Mascagni, Michael (*with* Simonov, Nikolai A.) Random walk on the boundary methods for computing reaction rate and capacitance. (English summary) (*see* **2005i:65006**)
— (*with* Simonov, Nikolai A.) Monte Carlo method for calculating the electrostatic energy of a molecule. (English summary) (*see* **2005c:00014**)
— (*with* Simonov, Nikolai A.) Monte Carlo methods for calculating some physical properties of large molecules. (English summary) **2005i:65011**
— *see also* **Li, Yaohang, 2005m:65008**; **Karaivanova, Aneta et al.** *and* **Rasulov, Abdujabor et al.**
Mateu, Jorge (*with* Artés, Jordi; López, José A.) Computational issues for perfect simulation in spatial point patterns. (English summary) **2005b:65006**
Mazzolo, Alain (*with* Roesslinger, Benoît) Monte-Carlo simulation of the chord length distribution function across convex bodies, non-convex bodies and random media. (English summary)
Mikhailov, Gennadii A. (*with* Lotova, G. Z.) The Monte Carlo method and a simple probabilistic model for studying the fluctuations of the critical parameter values of a transfer process transport. (Russian)
— *see also* **Lotova, G. Z., 2005g:65016**
Mira, Antonietta (*with* Sargent, Daniel J.) A new strategy for speeding Markov chain Monte Carlo algorithms. (English summary) **2005g:65017**
Nekrutkin, V. (*with* Potapov, P.) Two variants of a stochastic Euler method for homogeneous balance differential equations. (English summary)
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Pillards, Tim (*with* Cools, Ronald) Transforming low-discrepancy sequences from a cube to a simplex. (English summary)
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Roberts, Gareth O. Linking theory and practice of MCMC. (*see* **2005b:62009**)
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Sabelfeld, Karl K. (*with* Shalimova, I. A.; Levykin, A. I.) Discrete random walk on large spherical grids generated by spherical means for PDEs. (English summary)
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Shapiro, Alexander Monte Carlo sampling methods. (English summary) (*see* **2005f:90001**)
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Sloan, Ian H. (*with* Woźniakowski, Henryk) When does Monte Carlo depend polynomially on the number of variables? (English summary) (*see* **2005b:65002**)
— *see also* **Dick, Josef et al., 2005h:65008**; **Wang, Xiaoqun[1] et al., 2005j:65006** *and* **Kuo, Frances Y., 2005k:65007**
Sobol′, I. M. (*with* Kucherenko, Sergei) On global sensitivity analysis of quasi-Monte Carlo algorithms. (English summary) **2005m:65009**
Spanier, Jerome (*with* Kong, Rong) A new adaptive method for geometric convergence. (English summary) (*see* **2005b:65002**)
Srinivasan, Ashok (*with* Aggarwal, Vikram) Improved Monte Carlo linear solvers through non-diagonal splitting. (English summary) (*see* **2005i:00014**)
Stein, Charles (*with* Diaconis, Persi; Holmes, Susan; Reinert, Gesine) Use of exchangeable pairs in the analysis of simulations. (English summary) **2005j:65005**
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Tezuka, Shu Polynomial arithmetic analogue of Hickernell sequences. (English summary) (*see* **2005b:65002**)
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and normal approximation. (English summary)
— *see also* **Lécot, Christian**, (**2005b:65002**)
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Wang, Xiaoqun[1] (*with* Sloan, Ian H.; Dick, Josef) On Korobov lattice rules in weighted spaces. (English summary) **2005j:65006**
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Zhu, Feng Juan *see* **Huang, Yong Dong et al.**
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Items with secondary classifications in 65C05

Albrecher, Hansjörg (*with* Hartinger, Jürgen; Tichy, Robert F.) Multivariate approximation methods for the pricing of catastrophe-linked bonds. (English summary) (*see* **2005a:41001**)
— (*with* Hartinger, Jürgen; Tichy, Robert F.) QMC techniques for CAT bond pricing. (English summary)
Aoki, Satoshi *see* **Takemura, Akimichi**, **2005g:62103**
Aspuru-Guzik, Alán (*with* Lester, William A., Jr.) Quantum Monte Carlo methods for the solution of the Schrödinger equation for molecular systems. (*see* **2005c:81001**)
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— *see also* **Nedjalkov, M. et al.**, **2005g:82121**
Atchadé, Yves F. (*with* Perron, François) Improving on the independent Metropolis-Hastings algorithm. (English summary) **2005j:62166**
Athreya, Krishna B. (*with* Stenflo, Örjan) Perfect sampling for Doeblin chains. (English summary) **2005d:60105**
Atiya, Amir F. (*with* Metwally, Steve A. K.) Efficient estimation of first passage time density function for jump-diffusion processes. (English summary)
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Berzuini, Carlo (*with* Gilks, Walter R.) Particle filtering methods for dynamic and static Bayesian problems. (*see* **2005b:62009**)
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Chen, Ming-Hui Computing marginal likelihoods from a single MCMC output. (English summary) **2005k:62016**
Chiarella, Carl (*with* Clewlow, Les; Musti, Silvana) A volatility decomposition control variate technique for Monte Carlo simulations of Heath Jarrow Morton models. (English summary)
Chib, Siddhartha Markov chain Monte Carlo technology. (*see* **2005g:62004**)
— (*with* Jeliazkov, Ivan) Accept-reject Metropolis-Hastings sampling and marginal likelihood estimation. (English summary)
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Cornford, Dan (*with* Csató, Lehel; Evans, David John[3]; Opper, Manfred) Bayesian analysis of the scatterometer wind retrieval inverse problem: some new approaches. (English summary)
Corral Blanco, Norberto *see* **Carleos, Carlos et al.**, (**2005i:62007**)
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De Wachter, Stefan (*with* Tzavalis, Elias) Monte Carlo comparison of model and moment selection and classical inference approaches to break detection in panel data models. (English summary)
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— (*with* Merener, Nicolas) Convergence of a discretization scheme for jump-diffusion processes with state-dependent intensities. (English summary) **2005b:65008**
— (*with* Yu, Bin[3]) Large sample properties of weighted Monte Carlo estimators. (English summary) **2005m:62074**
Glukhovskiĭ, A. B. (*with* Zihlbauer, Martin; Politis, Dimitris N.) Subsampling confidence intervals for parameters of atmospheric time series: block size choice and calibration. (English summary)
Gobet, Emmanuel (*with* Maire, Sylvain) A spectral Monte Carlo method for the Poisson equation. (English summary)
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Golyandina, N. Convergence rate for spherical processes with shifted centres. (English summary)
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de Gunst, M. C. M. (*with* Schouten, J. G.) Model selection and parameter estimation for ion channel recordings with an application to the K^+ outward-rectifier in barley leaf. (English summary) **2005k:92024**
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Haario, H. (*with* Laine, M.; Lehtinen, Markku S.; Saksman, Eero; Tamminen, J.) Markov chain Monte Carlo methods for high dimensional inversion in remote sensing. (English summary)
Habeck, Michael (*with* Rieping, Wolfgang; Nilges, Michael) A new principle for macromolecular structure determination. (English summary) (*see* **2005c:62004**)
Halton, John H. An outline of quasi-probability. (English summary) **2005j:60008**
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Hayakawa, Carole K. (*with* Spanier, Jerome) Perturbation Monte Carlo methods for the solution of inverse problems. (English summary) (*see* **2005b:65002**)
Heath, Simon C. Genetic linkage analysis using Markov chain Monte Carlo techniques. (*see* **2005b:62009**)
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Hickernell, Fred J. (*with* Sloan, Ian H.; Wasilkowski, Grzegorz W.) The strong tractability of multivariate integration using lattice rules. (English summary) (*see* **2005b:65002**)
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Kuhn, Estelle (*with* Lavielle, Marc) Coupling a stochastic approximation version of EM with an MCMC procedure. (English summary) **2005c:62042**

Labou, M. First-passage probabilities for randomly excited mechanical systems by a selective Monte Carlo simulation method. (English and Ukrainian summaries)

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— (*with* Tuffin, Bruno) Comparison of quasi-Monte Carlo-based methods for simulation of Markov chains. (English summary)

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Lejay, Antoine Monte Carlo methods for fissured porous media: a gridless approach. (English summary)

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Lin, Chien-Tai (*with* Wu, Sam J. S.; Balakrishnan, Narayanaswamy) Interval estimation of parameters of log-gamma distribution based on progressively censored data. (English summary)

Lin, Zhen Jiang (*with* Liu, Ning; Bai, Feng Shan) Multilevel Monte-Carlo methods for computing the permanent of matrices. (Chinese. English summary)

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Lotova, G. Z. Comparative analysis of local estimates for Monte Carlo method. (English summary) (*see* **2005i:65006**)

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Magolu monga Made, M. (*with* Smidts, O. F.; Dubus, A.) Adaptive adjoint Monte Carlo simulation for the uncertainty. (English summary)

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Marchenko, M. A. Optimization and parallelization of statistical simulation of diffusion processes. (*see* **2005i:65006**)

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— (*with* Medvedev, I. N.) Optimization of weighted Monte Carlo methods with respect to auxiliary variables. (Russian. Russian summary) **2005f:65016**

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Portolan, Stefano (*with* Iotti, Rita C.; Rossi, Fausto) Weighted simulation of steady-state transport within the standard Monte Carlo paradigm. (English summary)

Pradlwarter, H. J. (*with* Schuëller, G. I.; Szekely, G. S.) Random eigenvalue problems for large systems. (English summary) **2005i:65057**

Printems, Jacques *see* **Pagès, Gilles et al., (2005b:91009)**

Protasov, A. V. (*with* Ogorodnikov, V. A.) Dynamic probabilistic method of numerical modeling of multidimensional hydrometeorological fields. (English summary) **2005g:86018**

Reiß, O. *see* **Mil'shteĭn, G. N. et al.**

Rieping, Wolfgang *see* **Habeck, Michael et al., (2005c:62004)**

Robert, Christian P. *see* **Hobert, James P., 2005d:60106**

Roberts, Gareth O. (*with* Rosenthal, Jeffrey S.) General state space Markov chains and MCMC algorithms. (English summary) **2005i:60135**

Robinson, Peter M. *see* **Nishiyama, Yoshihiko, 2005k:62112**

Röck, Harald *see* **Entacher, Karl et al.**

Rogazinskiĭ, S. V. *see* **Mikhailov, Gennadii A., (2005i:65006)**

Rosenthal, Jeffrey S. *see* **Roberts, Gareth O., 2005i:60135**

Rossi, Fausto *see* **Portolan, Stefano et al.**

Rousseau, Judith *see* **Guihenneuc-Jouyaux, Chantal, 2005k:62077**

Sabelfeld, Karl K. (*with* Shalimova, I. A.) Decentered random walk on spheres for static elasticity problems. (English summary) (*see* **2005i:65006**)

— Foreword [Selection of papers presented at the IV IMACS Seminar on Monte Carlo methods].

Sakalauskas, Leonidas Application of the Monte-Carlo method to nonlinear stochastic optimization with linear constraints. (English and Lithuanian summaries) **2005d:90086**

Saksman, Eero *see* **Haario, H. et al.**

Samba, G. *see* **Clouët, J.-F., 2005f:82119**

Sbert, Mateu (*with* Bekaert, Philippe; Halton, John H.) Reusing paths in radiosity and global illumination. (English summary)

Schmidt, Peter *see* **Blaskowitz, Oliver J. et al., (2005b:91009)**

Schneider, Ulrike (*with* Corcoran, J. N.) Perfect sampling for Bayesian variable selection in a linear regression model. (English summary)

Schoenmakers, John G. M. *see* **Kolodko, A., 2005h:91113** *and* **Mil′shteĭn, G. N. et al.**
Schouten, J. G. *see* **de Gunst, M. C. M., 2005k:92024**
Schuëller, G. I. *see* **Pradlwarter, H. J. et al., 2005i:65057**
Schürer, Rudolf Adaptive quasi-Monte Carlo integration based on MISER and VEGAS. (English summary) (*see* **2005b:65002**)
Schütte, Christof *see* **Hartmann, Carsten, 2005k:70036**
Selberherr, S. *see* **Nedjalkov, M. et al., 2005g:82121**
Shalimova, I. A. *see* **Sabelfeld, Karl K., (2005i:65006)**
Shao, Bin (*with* Ding, Juan) Monte Carlo simulation method for pricing American-style Asian option in the GARCH option pricing model. (Chinese. English and Chinese summaries)
(Sheehan, Nuala A.) *see* **Heath, Simon C., (2005b:62009)**
Shu, Jiwu *see* **Zheng, Wei Min et al., (2005c:00015)**
Simonov, Nikolai A. (*with* Mascagni, Michael) Random walk algorithms for estimating effective properties of digitized porous media. (English summary)
Sirenek, V. A. (*with* Ponikarovski, A. I.) The solution to a three-dimensional hyperbolic diffusion equation by Monte Carlo method. (English summary) (*see* **2005i:65006**)
Sloan, Ian H. *see* **Hickernell, Fred J. et al., (2005b:65002)**
Smidts, O. F. *see* **Magolu monga Made, M. et al.**
(Sorensen, Daniel A.) *see* **Heath, Simon C., (2005b:62009)**
Spanier, Jerome *see* **Hayakawa, Carole K., (2005b:65002)**
Ştefănescu, Ştefan Corneliu V. On the maximum-likelihood estimation on the two parameters for Weibull model. (English summary) **2005k:62070**
Stenflo, Örjan *see* **Athreya, Krishna B., 2005d:60105**
(Stephens, David A.) *see* **Heath, Simon C., (2005b:62009)**
Stinis, Panagiotis A maximum likelihood algorithm for the estimation and renormalization of exponential densities. (English summary)
Stoilova, S. S. *see* **Grozdanov, V. S., 2005h:11164**
(Storvik, Geir) *see* **Berzuini, Carlo, (2005b:62009)**
Sun, Yeneng *see* **Hammond, Peter J., 2005h:91172**
Szekely, G. S. *see* **Pradlwarter, H. J. et al., 2005i:65057**
Takemura, Akimichi (*with* Aoki, Satoshi) Some characterizations of minimal Markov basis for sampling from discrete conditional distributions. (English summary) **2005g:62103**
Tamminen, J. *see* **Haario, H. et al.**
Tan, Ken Seng *see* **Imai, Junichi, (2005b:65002)**
Tan, Zhiqiang[2] On a likelihood approach for Monte Carlo integration. (English summary) **2005i:62064**
Tavaré, Simon *see* **Plagnol, Vincent, (2005b:65002)**
Tenconi, Paolo *see* **Mira, Antonietta, (2005f:60008)**
Terrell, R. D. *see* **O'Neill, Terence J. et al., 2005g:91157**
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Tuffin, Bruno *see* **Lécot, Christian**
Tzavalis, Elias *see* **De Wachter, Stefan**
Uhl, Andreas *see* **Entacher, Karl et al.**
Venkiteswaran, G. (*with* Junk, Michael) Quasi-Monte Carlo algorithms for diffusion equations in high dimensions. (English summary) **2005i:65160**
Wagner, Wolfgang[1] Stochastic models and Monte Carlo algorithms for Boltzmann type equations. (English summary) **2005d:82121**
— *see also* **Lécot, Christian, 2005c:82084**
Wang, Fang (*with* Hou, Chao Zhen) Evaluation of the reliability of a stochastic flow network using Monte Carlo method and the Petri net. (Chinese. English and Chinese summaries)
Wang, J. W. (*with* Zhang, Qing[1]) Pricing defaultable bond with regime switching. (English summary) (*see* **2005b:91010**)
Wasilkowski, Grzegorz W. *see* **Hickernell, Fred J. et al., (2005b:65002)**
Windmeijer, Frank A finite sample correction for the variance of linear efficient two-step GMM estimators. (English summary)
Wu, Sam J. S. *see* **Lin, Chien-Tai et al.**
Yu, Bin[3] *see* **Glasserman, Paul, 2005m:62074** *and* **(2005b:65002)**
Yuen, Wai Kong *see* **Jarner, Søren F., 2005b:60178**
Zhang, Dongxiao *see* **Lu, Zhiming[1], 2005i:76105**
Zhang, Qing[1] *see* **Wang, J. W., (2005b:91010)**
Zhang, Wei[7] (*with* Lee, Lung-Fei) Simulation estimation of dynamic discrete choice panel models with accelerated importance samplers. (English summary)
Zheng, Wei Min (*with* Shu, Jiwu; Deng, Xiao Tie; Gu, Yong Geng) Parallel computing method of valuing for multi-asset European option. (English summary) (*see* **2005c:00015**)
Zheng, Zu Kang An algorithm of MCMC method for solving $F(X) = 0$. (English summary) **2005a:65050**
Zhuravleva, Svetlana *see* **Denisikhin, Sergey et al., (2005c:00015)**
Zihlbauer, Martin *see* **Glukhovskiĭ, A. B. et al.**

65C10 Random number generation

Bai, Feng Shan *see* **Liang, Heng et al.**
Brent, Richard P. (*with* Zimmermann, Paul) Random number generators with period divisible by a Mersenne prime. (English summary) (*see* **2005g:65008**)
Chen, Ding Fang *see* **Li, Qiong et al.**
Chen, Yi[3] *see* **Lee, Po-Han et al., 2005j:65007**
Chen, Yih-Yuh *see* **Lee, Po-Han et al., 2005j:65007**
Cools, Ronald *see* **Pillards, Tim, 2005f:65009**
Dorfer, Gerhard (*with* Winterhof, Arne) Lattice structure of nonlinear pseudorandom number generators in parts of the period. (English summary) (*see* **2005b:65002**)
Ermakov, S. M. A multiplicative random number generator. (English summary) **2005i:65012**
Evans, D. L. (*with* Leemis, L. M.) Algorithms for computing the distributions of sums of discrete random variables. (English summary) **2005k:65010**
Hernández Castro, Julio César (*with* Sierra Cámara, José María; Seznec, Andre; Izquierdo, Antonio; Ribagorda, Arturo) The strict avalanche criterion randomness test. (English summary) **2005k:65011**
Hernández Encinas, Luis *see* **Rubio, C. Fraile et al., 2005k:65012**
Hoya White, S. *see* **Rubio, C. Fraile et al., 2005k:65012**
Izquierdo, Antonio *see* **Hernández Castro, Julio César et al., 2005k:65011**
Jin, Sheng Ping *see* **Li, Qiong et al.**
Kang, Mihyun Efficiency test of pseudorandom number generators using random walks. (English summary) **2005h:65011**
Kao, Chiang *see* **Tang, Hui-Chin, 2005f:65010**
L'Ecuyer, Pierre Random number generation. (*see* **2005g:62004**)
— *see also* **Panneton, François, (2005b:65002)**
Lee, Lap-Piu (*with* Wong, Kwok-Wo) A random number generator based on elliptic curve operations. (English summary) **2005g:65020**
Lee, Po-Han (*with* Chen, Yi[3]; Pei, Soo-Chang; Chen, Yih-Yuh) Evidence of the correlation between positive Lyapunov exponents and good chaotic random number sequences. (English summary) **2005j:65007**
Leemis, L. M. *see* **Evans, D. L., 2005k:65010**
Li, Qiong (*with* Jin, Sheng Ping; Chen, Ding Fang) Algorithm and discrepancy analysis of compound inversive congruential pseudo-random numbers. (Chinese. English and Chinese summaries)
Liang, Heng (*with* Liu, Qing Hua[2]; Bai, Feng Shan) A note on a pseudo-random number generator for personal computers. (English summary)
Liu, Qing Hua[2] *see* **Liang, Heng et al.**
Martín del Rey, Ángel *see* **Rubio, C. Fraile et al., 2005k:65012**
Mascagni, Michael (*with* Srinivasan, Ashok) Parameterizing parallel multiplicative lagged-Fibonacci generators. (English summary)
Panneton, François (*with* L'Ecuyer, Pierre) Random number generators based on linear recurrences in $\mathbb{F}_{2^w}$. (English summary) (*see* **2005b:65002**)
Pei, Soo-Chang *see* **Lee, Po-Han et al., 2005j:65007**
Pemantle, Robin Cycles in random k-ary maps and the poor performance of random number generation. (English summary) **2005j:65008**
Pillards, Tim (*with* Cools, Ronald) A theoretical view on transforming low-discrepancy sequences from a cube to a simplex. (English summary) **2005f:65009**
Ribagorda, Arturo *see* **Hernández Castro, Julio César et al., 2005k:65011**
Rodríguez Sánchez, G. *see* **Rubio, C. Fraile et al., 2005k:65012**
Rubio, C. Fraile (*with* Hernández Encinas, Luis; Hoya White, S.; Martín del Rey, Ángel; Rodríguez Sánchez, G.) The use of linear hybrid cellular automata as pseudorandom bit generators in cryptography. (English summary) **2005k:65012**
Sezgin, Fatin A method of systematic search for optimal multipliers in congruential random number generators. (English summary) **2005e:65005**
Seznec, Andre *see* **Hernández Castro, Julio César et al., 2005k:65011**
Sierra Cámara, José María *see* **Hernández Castro, Julio César et al., 2005k:65011**
Srinivasan, Ashok *see* **Mascagni, Michael**
Tang, Hui-Chin Effective and efficient restriction on producing the multipliers for the multiple recursive random number generator. (English summary) **2005g:65021**
— (*with* Kao, Chiang) Searching for good multiple recursive random number generators via a genetic algorithm. (English summary) **2005f:65010**
— Reverse multiple recursive random number generators. (English summary) **2005k:65013**
Winterhof, Arne *see* **Dorfer, Gerhard, (2005b:65002)**
Wong, Kwok-Wo *see* **Lee, Lap-Piu, 2005g:65020**
Zimmermann, Paul *see* **Brent, Richard P., (2005g:65008)**

Items with secondary classifications in 65C10

Arnault, François (*with* Berger, Thierry P.; Necer, Abdelkader) Feedback with carry shift registers synthesis with the Euclidean algorithm. (English summary) **2005e:94095**
Berger, Thierry P. *see* **Arnault, François et al., 2005e:94095**
Chi, Hongmei *see* **Mascagni, Michael, 2005g:11141**
Cooley, Bryan B. (*with* Newton, Paul K.) Random number generation from chaotic impact collisions. (English summary) **2005f:70032**
Dai, Zongduo *see* **Feng, Xiutao et al., 2005k:11155**
Del Moral, Pierre (*with* Doucet, Arnaud) On a class of genealogical and interacting Metropolis models. (English summary) **2005g:65013**
Deng, Lih-Yuan Generalized Mersenne prime number and its application to random number generation. (English summary) (*see* **2005b:65002**)
Dodge, Yadolah (*with* Melfi, Giuseppe) Random number generators and rare events in the continued fraction of π. (English summary) **2005h:11280**
Dorfer, Gerhard Lattice profile and linear complexity profile of pseudorandom number sequences. (English summary) **2005f:11163**
— (*with* Meidl, Wilfried; Winterhof, Arne) Counting functions and expected values for the lattice profile at n. (English summary) **2005f:11139**
Doucet, Arnaud *see* **Del Moral, Pierre, 2005g:65013**
Entacher, Karl (*with* Laimer, Gerold; Röck, Harald; Uhl, Andreas) Normalization of the spectral test in high dimensions. (English summary)
Feng, Xiutao (*with* Wang, Quanlong; Dai, Zongduo) Multi-sequences with d-perfect property. (English summary) **2005k:11155**
Fischbach, Ephraim *see* **Tu, Shu-Ju, 2005k:60041**
Goldreich, Oded Pseudorandomness. I.
Goresky, Mark (*with* Klapper, Andrew) Periodicity and correlation properties of d-FCSR sequences. (English summary) **2005m:94021**
Grozdanov, V. S. (*with* Stoilova, S. S.) The b-adic diaphony. (English and Italian summaries) **2005a:11116**
— The generalized b-adic diaphony of the net of Zaremba-Halton over finite abelian groups. (English summary) **2005g:11138**
Gyarmati, Katalin An inequality between the measures of pseudorandomness. **2005h:11166**
Heinrich, Stefan (*with* Novak, Erich; Pfeiffer, Harald P.) How many random bits do we need for Monte Carlo integration? (English summary) **2005g:65015**
Hu, Yu Pu (*with* Xiao, Guo Zhen[1]) Pseudo-randomness of the fourth class of GSS sequences. (English summary) **2005f:94104**
Impagliazzo, Russell (*with* Shaltiel, Ronen; Wigderson, Avi) Extractors and pseudo-random generators with optimal seed length. (*see* **2005i:68003**)
Karaivanova, Aneta *see* **Rasulov, Abdujabor et al.**

Kim, Jong Hyouk *see* **Kim, Tae Soo et al.**
Kim, Tae Soo (*with* Lee, Joung Nam; Kim, Jong Hyouk) On the combinations of random number generators and empirical tests. (English summary)
Klapper, Andrew *see* **Goresky, Mark**, **2005m:94021**
Laimer, Gerold *see* **Entacher, Karl et al.**
Lee, Joung Nam *see* **Kim, Tae Soo et al.**
Lu, Chi-Jen (*with* Reingold, Omer; Vadhan, Salil P.; Wigderson, Avi) Extractors: optimal up to constant factors. (English summary) **2005k:68227**
Maaranen, H. (*with* Miettinen, Kaisa; Mäkelä, M. M.) Quasi-random initial population for genetic algorithms. (English summary)
Machikina, E. P. *see* **Ryabko, B. Ya.**, **2005g:94030**
Mäkelä, M. M. *see* **Maaranen, H. et al.**
Marchenko, M. A. Optimization and parallelization of statistical simulation of diffusion processes. (*see* **2005i:65006**)
Mascagni, Michael (*with* Chi, Hongmei) Parallel linear congruential generators with Sophie-Germain moduli. (English summary) **2005g:11141**
— *see also* **Rasulov, Abdujabor et al.**
Meidl, Wilfried *see* **Dorfer, Gerhard et al.**, **2005f:11139**
Melfi, Giuseppe *see* **Dodge, Yadolah**, **2005h:11280**
Merhav, Neri (*with* Weinberger, Marcelo J.) On universal simulation of information sources using training data. (English summary) **2005b:62018**
— Achievable key rates for universal simulation of random data with respect to a set of statistical tests. (English summary) **2005b:62017**
Miettinen, Kaisa *see* **Maaranen, H. et al.**
Monarev, V. A. (*with* Ryabko, B. Ya.) Experimental analysis of pseudorandom number generators using a new statistical test. (Russian. Russian summary)
Mori, Makoto Discrepancy of sequences generated by dynamical system. **2005g:37008**
Necer, Abdelkader *see* **Arnault, François et al.**, **2005e:94095**
Newton, Paul K. *see* **Cooley, Bryan B.**, **2005f:70032**
Novak, Erich *see* **Heinrich, Stefan et al.**, **2005g:65015**
Pfeiffer, Harald P. *see* **Heinrich, Stefan et al.**, **2005g:65015**
Rasulov, Abdujabor (*with* Karaivanova, Aneta; Mascagni, Michael) Quasirandom sequences in branching random walks. (English summary)
Reingold, Omer *see* **Lu, Chi-Jen et al.**, **2005k:68227**
Röck, Harald *see* **Entacher, Karl et al.**
Ryabko, B. Ya. (*with* Machikina, E. P.) An efficient method for generating uniformly distributed random numbers. (Russian. Russian summary) **2005g:94030**
— *see also* **Monarev, V. A.**
Schindler, Werner A stochastical model and its analysis for a physical random number generator presented at CHES 2002. (English summary) **2005f:94120**
Shaltiel, Ronen *see* **Impagliazzo, Russell et al.**, (**2005i:68003**)
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Sugita, Hiroshi Security of pseudo-random generator and Monte Carlo method.
— Numerical integration of complicated functions and random sampling. (Japanese) **2005a:65026**
Suykens, Johan A. K. *see* **Yalçın, Müştak E. et al.**
Tang, Hui-Chin Simulated division with approximate factoring for the multiple recursive generator with both unrestricted multiplier and non-Mersenne prime modulus. (English summary) **2005d:11114**
Trevisan, Luca Extractors and pseudorandom generators. (English summary) **2005m:68064**
Tsypyshev, V. N. A matrix linear congruent generator over a Galois ring of odd characteristic. (Russian. Russian summary) **2005b:94027**
Tu, Shu-Ju (*with* Fischbach, Ephraim) A formalism for stochastic geometry and its applications. **2005k:60041**
Uhl, Andreas *see* **Entacher, Karl et al.**
Umans, Christopher Pseudo-random generators for all hardnesses. (English summary) (*see* **2005i:68004**)
Vadhan, Salil P. *see* **Lu, Chi-Jen et al.**, **2005k:68227**
Vandewalle, Joos *see* **Yalçın, Müştak E. et al.**
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Weinberger, Marcelo J. *see* **Merhav, Neri**, **2005b:62018**
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Winterhof, Arne *see* **Dorfer, Gerhard et al.**, **2005f:11139**
Xiao, Guo Zhen[1] *see* **Hu, Yu Pu**, **2005f:94104**
Yalçın, Müştak E. (*with* Suykens, Johan A. K.; Vandewalle, Joos) True random bit generation from a double-scroll attractor. (English summary)
Yang, Zhen Hai *see* **Zhang, Jie[6] et al.**, **2005g:62031**
Zhang, Jie[6] (*with* Yang, Zhen Hai; Zhao, Ying[2]) Domain transformation method and its application to continuous-distribution random number generation. (Chinese. English and Chinese summaries) **2005g:62031**
Zhao, Ying[2] *see* **Zhang, Jie[6] et al.**, **2005g:62031**
Zubkov, A. M. Generators of pseudorandom numbers and their applications. (Russian) (*see* **2005g:94088**)

65C20 Models, numerical methods [see also 68U20]

Bossy, Mireille (*with* Gobet, Emmanuel; Talay, Denis) A symmetrized Euler scheme for an efficient approximation of reflected diffusions. (English summary) **2005g:65022**
Gobet, Emmanuel *see* **Bossy, Mireille et al.**, **2005g:65022**
Kamiński, Marcin Some notes on numerical convergence of the stochastic perturbation method. (English summary) (*see* **2005c:00014**)
Stinis, Panagiotis Stochastic optimal prediction for the Kuramoto-Sivashinsky equation. (English summary) **2005m:65010**
Stoev, Stilian (*with* Taqqu, Murad S.) Simulation methods for linear fractional stable motion and FARIMA using the fast Fourier transform. (English summary) **2005e:65006**
Talay, Denis *see* **Bossy, Mireille et al.**, **2005g:65022**
Taqqu, Murad S. *see* **Stoev, Stilian**, **2005e:65006**

Items with secondary classifications in 65C20

Chen, Shih-Pin An alternating variable method with varying replications for simulation response optimization. (English summary)
Cohen, Albert (*with* Hoffmann, Marc; Reiß, Markus) Adaptive wavelet Galerkin methods for linear inverse problems. (English summary) **2005i:65087**
De Lathauwer, Lieven (*with* De Moor, Bart L. M.; Vandewalle, Joos) A prewhitening-induced bound on the identification error in independent component analysis. (English summary)
De Moor, Bart L. M. *see* **De Lathauwer, Lieven et al.**
E, Wei-nan (*with* Ren, Weiqing; Vanden-Eijnden, Eric) Energy landscapes and rare events. (English summary) **2005b:60006**
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Hunter, David R. MM algorithms for generalized Bradley-Terry models. (English summary) **2005b:62049**
Keupfer, Lars (*with* Sauer, Uwe) Modelling gene expression using stochastic simulation. (English summary) (*see* **2005d:65007**)
Klassen, Eric Paul *see* **Srivastava, Anuj**, **2005a:62131**
Kroese, Dirk P. *see* **Rubinstein, Reuven Y.**, **2005c:90001**
Li, Shuanming (*with* Lu, Yi) On the expected discounted penalty functions for two classes of risk processes. (English summary) **2005m:91119**
Lu, Yi *see* **Li, Shuanming**, **2005m:91119**
Malcolm, W. P. (*with* Elliott, Robert J.; van der Hoek, John) A deterministic discretisation-step upper bound for state estimation via Clark transformations. **2005g:62142**
Nemirovskiĭ, Yu. V. (*with* Yankovskiĭ, A. P.) Numerical integration of initial-boundary value problems with large solution gradients by generalized Runge-Kutta methods. (Russian. English, Russian and Ukrainian summaries) **2005m:65196**
Pagès, Gilles (*with* Pham, Huyên; Printems, Jacques) An optimal Markovian quantization algorithm for multi-dimensional stochastic control problems. (English summary) **2005i:65014**
Pham, Huyên *see* **Pagès, Gilles et al.**, **2005i:65014**
Printems, Jacques *see* **Pagès, Gilles et al.**, **2005i:65014**
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Ren, Weiqing *see* **E, Wei-nan et al.**, **2005b:60006**
Rjasanow, Sergej Monte-Carlo methods for the Boltzmann equation. (English summary) **2005d:82120**
Rubinstein, Reuven Y. (*with* Kroese, Dirk P.) ★ The cross-entropy method. **2005c:90001**
Sauer, Uwe *see* **Keupfer, Lars**, (**2005d:65007**)
Semerjian, Guilhem (*with* Weigt, Martin) Approximation schemes for the dynamics of diluted spin models: the Ising ferromagnet on a Bethe lattice. (English summary) **2005g:82086**
Silverberg, Gerald (*with* Verspagen, Bart) A percolation model of innovation in complex technology spaces. (English summary)
Srivastava, Anuj (*with* Klassen, Eric Paul) Bayesian and geometric subspace tracking. (English summary) **2005a:62131**
Talay, Denis New challenges for the simulation of stochastic processes. (English summary) (*see* **2005b:65002**)
Vanden-Eijnden, Eric *see* **E, Wei-nan et al.**, **2005b:60006**
Vandewalle, Joos *see* **De Lathauwer, Lieven et al.**
Verspagen, Bart *see* **Silverberg, Gerald**
Voss, D. A. Fourth-order parallel Rosenbrock formulae for stiff systems. (English summary) **2005m:65144**
Wagner, Wolfgang[1] Stochastic models and Monte Carlo algorithms for Boltzmann type equations. (English summary) **2005d:82121**
Weigt, Martin *see* **Semerjian, Guilhem**, **2005g:82086**
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65C30 Stochastic differential and integral equations

Babuška, Ivo (*with* Tempone, Raúl; Zouraris, Georgios E.) Galerkin finite element approximations of stochastic elliptic partial differential equations. (English summary) **2005h:65012**
Berkaoui, A. Euler scheme for solutions of stochastic differential equations with non-Lipschitz coefficients. (English summary) **2005k:65014**
Bokor, Rózsa Horváth On strong consistency for one-step approximations of stochastic ordinary differential equations. (English summary) **2005m:65011**
Bouchard, Bruno (*with* Touzi, Nizar) Discrete-time approximation and Monte-Carlo simulation of backward stochastic differential equations. (English summary) **2005b:65007**
Brugnano, Luigi (*with* Carreras, Giulia; Burrage, Kevin) On the convergence of LMF-type methods for SODEs. (English summary) **2005g:65023**
Buckwar, Evelyn The Θ-Maruyama scheme for stochastic functional differential equations with distributed memory term. (English summary) **2005g:65024**
Burrage, Kevin (*with* Burrage, P. M.; Tian, Tian Hai) Numerical methods for strong solutions of stochastic differential equations: an overview. (English summary) **2005c:65006**
— *see also* **Burrage, P. M. et al.**, **2005f:65011** *and* **Brugnano, Luigi et al.**, **2005g:65023**
Burrage, P. M. (*with* Herdiana, R.; Burrage, Kevin) Adaptive stepsize based on control theory for stochastic differential equations. (English summary) **2005f:65011**
— *see also* **Burrage, Kevin et al.**, **2005c:65006**
Cao, Wan Rong (*with* Liu, Ming Zhu) *T*-stability of the Euler-Maruyama numerical method for stochastic differential delay equations. (Chinese. English and Chinese summaries)
— *see also* **Liu, Ming Zhu et al.**, **2005f:65014**
Carreras, Giulia *see* **Brugnano, Luigi et al.**, **2005g:65023**
Egorov, A. D. (*with* Zherelo, A. V.) Approximations of functional integrals with respect to measures generated by solutions of stochastic differential equations. (English summary)
Elman, Howard C. (*with* Ernst, Oliver G.; O'Leary, Dianne P.; Stewart, Michael) Efficient iterative algorithms for the stochastic finite element method with application to acoustic scattering. (English summary) **2005k:65015**

El-Tahan, W. *see* **El-Tawil, Magdy A. et al., 2005i:65013**
El-Tawil, Magdy A. (*with* El-Tahan, W.; Hussein Zaki, Abdellah) A proposed technique of SFEM on solving ordinary random differential equation. (English summary) **2005i:65013**
Ernst, Oliver G. *see* **Elman, Howard C. et al., 2005k:65015**
Fan, Zhencheng *see* **Liu, Ming Zhu et al., 2005f:65014**
Fedchenko, N. V. (*with* Prigarin, S. M.) Boundary value problems for linear stochastic differential equations. (English summary) **2005k:65016**
Ford, Neville J. (*with* Norton, Stewart J.) Numerical investigation of D-bifurcations for a stochastic delay logistic equation. (English summary)
Glasserman, Paul (*with* Merener, Nicolas) Convergence of a discretization scheme for jump-diffusion processes with state-dependent intensities. (English summary) **2005b:65008**
Gradalski, Przemyslaw *see* **Janicki, Aleksander et al., (2005c:00014)**
Gyöngy, István (*with* Krylov, Nicolai) On the rate of convergence of splitting-up approximations for SPDEs. (English summary) **2005f:65012**
Herdiana, R. *see* **Burrage, P. M. et al., 2005f:65011**
Higham, Desmond J. (*with* Mao, Xuerong; Stuart, Andrew M.) Exponential mean-square stability of numerical solutions to stochastic differential equations. (English summary) **2005a:65005**
— *see also* **Strømmen Melbø, Aslaug H., 2005d:65009**
Hofmann, Norbert (*with* Müller-Gronbach, Thomas) On the global error of Itô-Taylor schemes for strong approximation of scalar stochastic differential equations. (English summary) **2005g:65025**
Hussein Zaki, Abdellah *see* **El-Tawil, Magdy A. et al., 2005i:65013**
Ilić, Dejan *see* **Janković, Svetlana, 2005b:65009**
Izydorczyk, Adam *see* **Janicki, Aleksander et al., (2005c:00014)**
Jacod, Jean The Euler scheme for Lévy driven stochastic differential equations: limit theorems. (English summary) **2005f:65013**
Janicki, Aleksander (*with* Izydorczyk, Adam; Gradalski, Przemyslaw) Computer simulation of stochastic models with SDE-solver software package. (English summary) (*see* **2005c:00014**)
Janković, Svetlana (*with* Ilić, Dejan) An analytic approximation of solutions of stochastic differential equations. (English summary) **2005b:65009**
Kanagawa, Shuya (*with* Ogawa, Shigeyoshi) Numerical solutions of stochastic differential equations and their applications [translation of Sūgaku **53** (2001), no. 2, 125–138; MR1839957]. (*see* **2005j:00022**)
Krylov, Nicolai *see* **Gyöngy, István, 2005f:65012**
Liu, Ming Zhu (*with* Cao, Wan Rong; Fan, Zhencheng) Convergence and stability of the semi-implicit Euler method for a linear stochastic differential delay equation. (English summary) **2005f:65014**
— *see also* **Cao, Wan Rong**
Mao, Xuerong (*with* Yuan, Cheng Gui; Yin, Gang George) Numerical method for stationary distribution of stochastic differential equations with Markovian switching. (English summary) **2005g:65026**
— *see also* **Higham, Desmond J. et al., 2005a:65005** *and* **Yuan, Cheng Gui, 2005g:65027**
Martin, Andreas (*with* Prigarin, S. M.; Winkler, Gerhard) "Exact" numerical algorithms for linear stochastic wave equation and stochastic Klein-Gordon equation. (English summary) (*see* **2005i:65006**)
Merener, Nicolas *see* **Glasserman, Paul, 2005b:65008**
Mil′shteĭn, G. N. (*with* Tret′yakov, Mikhail V.) Evaluation of conditional Wiener integrals by numerical integration of stochastic differential equations. (English summary) **2005c:65007**
Müller-Gronbach, Thomas *see* **Hofmann, Norbert, 2005g:65025**
Norton, Stewart J. *see* **Ford, Neville J.**
Ogawa, Shigeyoshi Introduction to the discrete approximation of stochastic differential equations [translation of Sūgaku **53** (2001), no. 1, 34–45; MR1816982]. (English summary) (*see* **2005j:00022**)
— *see also* **Kanagawa, Shuya, (2005j:00022)**
O'Leary, Dianne P. *see* **Elman, Howard C. et al., 2005k:65015**
Pagès, Gilles (*with* Pham, Huyên; Printems, Jacques) An optimal Markovian quantization algorithm for multi-dimensional stochastic control problems. (English summary) **2005i:65014**
Pham, Huyên *see* **Pagès, Gilles et al., 2005i:65014**
Prigarin, S. M. (*with* Winkler, Gerhard) Numerical solution of boundary value problems for stochastic differential equations on the basis of the Gibbs sampler. (English summary) (*see* **2005i:65006**)
— *see also* **Fedchenko, N. V., 2005k:65016** *and* **Martin, Andreas et al., (2005i:65006)**
Printems, Jacques *see* **Pagès, Gilles et al., 2005i:65014**
Schurz, Henri Two general theorems for numerical approximation of stochastic processes on separable Hilbert spaces. (*see* **2005m:00008**)
Semushin, I. V. Identifying parameters of linear stochastic differential equations from incomplete noisy measurements. (English summary) (*see* **2005d:35008**)
Shardlow, Tony Numerical simulation of stochastic PDEs for excitable media. (English summary) **2005k:65017**
Stewart, Michael *see* **Elman, Howard C. et al., 2005k:65015**
Strømmen Melbø, Aslaug H. (*with* Higham, Desmond J.) Numerical simulation of a linear stochastic oscillator with additive noise. (English summary) **2005d:65009**
Stuart, Andrew M. *see* **Higham, Desmond J. et al., 2005a:65005**
Tempone, Raúl *see* **Babuška, Ivo et al., 2005h:65012**
Tian, Tian Hai *see* **Burrage, Kevin et al., 2005c:65006**
Tocino, A. Mean-square stability of second-order Runge-Kutta methods for stochastic differential equations. (English summary) **2005i:65015**
Touzi, Nizar *see* **Bouchard, Bruno, 2005b:65007**
Tret′yakov, Mikhail V. *see* **Mil′shteĭn, G. N., 2005c:65007**
Winkler, Gerhard *see* **Martin, Andreas et al., (2005i:65006)** *and* **Prigarin, S. M., (2005i:65006)**
Yin, Gang George *see* **Mao, Xuerong et al., 2005g:65026**
Yuan, Cheng Gui (*with* Mao, Xuerong) Stability in distribution of numerical solutions for stochastic differential equations. (English summary) **2005g:65027**
— *see also* **Mao, Xuerong et al., 2005g:65026**
Zherelo, A. V. *see* **Egorov, A. D.**
Zouraris, Georgios E. *see* **Babuška, Ivo et al., 2005h:65012**

Items with secondary classifications in 65C30

Acebrón, Juan A. (*with* Spigler, Renato) Fast simulations of stochastic dynamical systems. (English summary) **2005m:37199**
Allen, Edward J. *see* **Arciniega, Armando, 2005g:60107**
Arciniega, Armando (*with* Allen, Edward J.) Shooting methods for numerical solution of stochastic boundary-value problems. (English summary) **2005g:60107**
Bontempi, Gianluca Simulating continuous dynamical systems under conditions of uncertainty: the probability and the possibility approaches. (English summary) **2005c:37163**
Bouleau, Nicolas ★ Error calculus for finance and physics: the language of Dirichlet forms. **2005g:60003**
Cao, Wan Rong (*with* Liu, Ming Zhu) Stability of the semi-implicit Milstein numerical method for stochastic differential delay equations. (Chinese. English and Chinese summaries) **2005m:60147**
Cortés López, Juan Carlos (*with* Sevilla-Peris, Pablo; Jódar, Lucas) Analytic-numerical approximating processes of diffusion equation with data uncertainty. (English summary)
Cox, Dennis D. (*with* Klouček, Petr; Reynolds, Daniel R.; Šolín, Pavel) Stochastic relaxation of variational integrals with non-attainable infima. (English summary) (*see* **2005j:65003**)
Cruzeiro, Ana Bela (*with* Malliavin, Paul; Thalmaier, Anton) Geometrization of Monte-Carlo numerical analysis of an elliptic operator: strong approximation. (English and French summaries) **2005c:60087**
Elbeyli, O. (*with* Sun, Jian-Qiao; Ünal, Gazanfer) A semi-discretization method for delayed stochastic systems. (English summary) **2005e:93163**
El-Tawil, Magdy A. The approximate solutions of some stochastic differential equations using transformations. (English summary)
Fard, Omid S. (*with* Kamyad, Ali V.) A numerical scheme to solve nonlinear BSDEs with Lipschitz and non-Lipschitz coefficients. (English summary) **2005m:60148**
Filatova, Daria (*with* Grzwaczewski, Marek; McDonald, A. David) Estimating parameters of stochastic differential equations using a criterion function based on the Kolmogorov-Smirnov statistics. (English summary)
Grzwaczewski, Marek *see* **Filatova, Daria et al.**
Gusev, Sergeĭ Anatol′evich Application of stochastic differential equations to estimation of derivatives of the solution to parabolic equation with respect to spatial variables. (English summary) (*see* **2005i:65006**)
— Monte Carlo estimates of the solution of a parabolic equation and its derivatives made by solving stochastic differential equations. (English summary) **2005d:65174**
Hanson, Floyd B. (*with* Westman, John J.) Optimal portfolio and consumption policies subject to Rishel's important jump events model: computational methods. (English summary) **2005b:91116**
Jódar, Lucas *see* **Cortés López, Juan Carlos et al.**
Kamiński, Marcin Stochastic perturbation approach to the wavelet-based analysis. (English summary) **2005f:42088**
Kamyad, Ali V. *see* **Fard, Omid S., 2005m:60148**
Klouček, Petr *see* **Cox, Dennis D. et al., (2005j:65003)**
Kumar, Sunil[1] (*with* Muthuraman, Kumar) A numerical method for solving singular stochastic control problems. (English summary) **2005e:49056**
Kushner, Harold J. Numerical approximations for stochastic differential games: the ergodic case. (English summary) **2005d:91014**
Ladde, G. S. Hybrid systems: convergence and stability analysis of stochastic large-scale approximation schemes. (English summary) **2005j:93078**
Lepingle, Dominique (*with* Nguyen, Thi Thao) Approximating and simulating multivalued stochastic differential equations. (English summary) **2005h:60202**
Li, Tiejun (*with* Zhang, Ping Wen; Zhou, Xiang) Analysis of $1+1$ dimensional stochastic models of liquid crystal polymer flows. (English summary) **2005j:76005**
Liu, Ming Zhu *see* **Cao, Wan Rong, 2005m:60147**
Loghmani, G. Barid A class of high strong order implicit Runge-Kutta methods for stochastic ordinary differential equations. (English summary) **2005a:60106**
Lord, Gabriel J. (*with* Rougemont, Jacques) A numerical scheme for stochastic PDEs with Gevrey regularity. (English summary) **2005d:60102**
Lyons, Terry (*with* Victoir, Nicolas) Cubature on Wiener space. (English summary) **2005b:35306**
Malliavin, Paul *see* **Cruzeiro, Ana Bela et al., 2005c:60087**
Mannella, R. Quasisymplectic integrators for stochastic differential equations. (English summary) **2005e:60149**
Manouzi, Hassan (*with* Theting, Thomas Gorm) Mixed finite element approximation for the stochastic pressure equation of Wick type. (English summary) **2005e:60150**
McDonald, A. David *see* **Filatova, Daria et al.**
Mil′shteĭn, G. N. (*with* Tret′yakov, Mikhail V.) ★ Stochastic numerics for mathematical physics. **2005f:60004**
Moon, Kyoung-Sook (*with* Szepessy, Anders; Tempone, Raúl; Zouraris, Georgios E.) Convergence rates for adaptive weak approximation of stochastic differential equations. (English summary) **2005m:60150**
Mora, Carlos M. Numerical simulation of stochastic evolution equations associated to quantum Markov semigroups. (English summary) **2005b:60171**
Muthuraman, Kumar *see* **Kumar, Sunil[1], 2005e:49056**
Negrea, Romeo On the Cauchy-Maruyama approximation method for the solutions of McShane's stochastic integral equations. (English summary) **2005e:60142**
Nguyen, Thi Thao *see* **Lepingle, Dominique, 2005h:60202**
Nie, Zan Kan *see* **Zhang, Qi Min et al., 2005h:60190**
Potapov, V. D. Stability of stochastic systems with memory. (English summary)
Reynolds, Daniel R. *see* **Cox, Dennis D. et al., (2005j:65003)**
Robinson, James Cooper Stability of random attractors for a backwards Euler scheme. (English summary) **2005b:37113**
Romito, Marco Ergodicity of the finite dimensional approximation of the 3D Navier-Stokes equations forced by a degenerate noise. (English summary) **2005a:76128**

Rößler, Andreas Stochastic Taylor expansions for the expectation of functionals of diffusion processes. (English summary) **2005m:60151**
Rougemont, Jacques *see* **Lord, Gabriel J., 2005d:60102**
Roy, Debasish A family of lower- and higher-order transversal linearization techniques in non-linear stochastic engineering dynamics. (English summary) **2005c:70027**
Schurz, Henri Convergence and stability of balanced implicit methods for systems of SDEs. (English summary) **2005k:60184**
Sevilla-Peris, Pablo *see* **Cortés López, Juan Carlos et al.**
Šolín, Pavel *see* **Cox, Dennis D. et al., (2005j:65003)**
Spigler, Renato *see* **Acebrón, Juan A., 2005m:37199**
Stuart, Andrew M. (*with* Voss, Jochen; Wiberg, Petter) Fast communication conditional path sampling of SDEs and the Langevin MCMC method. (English summary)
Sun, Jian-Qiao *see* **Elbeyli, O. et al., 2005e:93163**
Szepessy, Anders *see* **Moon, Kyoung-Sook et al., 2005m:60150**
Tempone, Raúl *see* **Moon, Kyoung-Sook et al., 2005m:60150**
Thalmaier, Anton *see* **Cruzeiro, Ana Bela et al., 2005c:60087**
Theting, Thomas Gorm Numerical solution of Wick-stochastic partial differential equations. (English summary) **2005k:60216**
— *see also* **Manouzi, Hassan, 2005e:60150**
Torres, Soledad (*with* Tudor, Ciprian A.) The Euler scheme for a class of anticipating stochastic differential equations. (English summary) **2005f:60135**
Tret′yakov, Mikhail V. *see* **Mil′shteĭn, G. N., 2005f:60004**
Tudor, Ciprian A. *see* **Torres, Soledad, 2005f:60135**
Ünal, Gazanfer *see* **Elbeyli, O. et al., 2005e:93163**
Victoir, Nicolas *see* **Lyons, Terry, 2005b:35306**
Voss, Jochen *see* **Stuart, Andrew M. et al.**
Westman, John J. *see* **Hanson, Floyd B., 2005b:91116**
Wiberg, Petter *see* **Stuart, Andrew M. et al.**
Xie, Wei-Chau Monte Carlo simulation of moment Lyapunov exponents. (English summary) **2005m:70082**
Xie, Yingchao Approximation of upper Lyapunov exponents of linear SDE with jumps. (English and Chinese summaries) **2005m:60129**
Zhang, Ping Wen *see* **Li, Tiejun et al., 2005j:76005**
Zhang, Qi Min (*with* Zhang, Wei-bin; Nie, Zan Kan) Convergence of the Euler scheme for stochastic functional partial differential equations. (English summary) **2005h:60190**
Zhang, Wei-bin *see* **Zhang, Qi Min et al., 2005h:60190**
Zheng, Ziyu Numerical analysis of stochastic differential systems and its applications in finance. (English summary) (*see* **2005b:91009**)
Zhou, Xiang *see* **Li, Tiejun et al., 2005j:76005**
Zouraris, Georgios E. *see* **Moon, Kyoung-Sook et al., 2005m:60150**

65C35 Stochastic particle methods [see also 82C80]

Sabelfeld, Karl K. Stochastic Lagrangian models for simulation of particle transport in porous media. (English summary) (*see* **2005i:65006**)

Items with secondary classifications in 65C35

Bhave, Amit (*with* Kraft, Markus) Partially stirred reactor model: analytical solutions and numerical convergence study of a PDF/Monte Carlo method. (English summary) **2005c:80009**
Gorostiza, Luis G. (*with* Porter, R. M.; Rodrigues, E. R.) A stochastic model for transport of size-structured particulate matter subject to fragmentation. (English summary) **2005c:76085**
Grünfeld, C. P. *see* **Marinescu-Mazilu, Dorin, (2005b:00022)**
Jourdain, Benjamin (*with* Méléard, Sylvie) Probabilistic interpretation and particle method for vortex equations with Neumann's boundary condition. (English summary) **2005i:76033**
Karniadakis, George Em *see* **Pivkin, Igor V., 2005m:76143**
Kolodko, A. (*with* Sabelfeld, Karl K.) Stochastic particle methods for Smoluchowski coagulation equation: variance reduction and error estimations. (English summary) **2005a:82102**
Kolyukhin, D. R. (*with* Sabelfeld, Karl K.) Stochastic Eulerian model for the flow simulation in porous media. Unconfined aquifers. (English summary)
Kosina, H. (*with* Nedjalkov, M.; Selberherr, S.) Solution of the space-dependent Wigner equation using a particle model. (English summary) **2005g:82114**
Kraft, Markus *see* **Bhave, Amit, 2005c:80009**
Kuz′min, G. A. (*with* Soboleva, O. N.) Subgrid modeling of filtration in a porous medium with multiscale log-stable permeability. (English summary)
Marinescu-Mazilu, Dorin (*with* Grünfeld, C. P.) Stochastic algorithms solving nonlinear Boltzmann models. (English summary) (*see* **2005b:00022**)
Méléard, Sylvie *see* **Jourdain, Benjamin, 2005i:76033**
Nebus, Joseph The Dirichlet quotient of point vortex interactions on the surface of the sphere examined by Monte Carlo experiments. (English summary) **2005i:76027**
Nedjalkov, M. *see* **Kosina, H. et al., 2005g:82114**
Nekrutkin, V. (*with* Potapov, P.) Two variants of a stochastic Euler method for homogeneous balance differential equations. (English summary)
Penenko, V. V. (*with* Tsvetova, E. A.) Deterministic and stochastic methods in the models of transport and transformation of pollutants. (English summary) (*see* **2005i:65006**)
Pivkin, Igor V. (*with* Karniadakis, George Em) A new method to impose no-slip boundary conditions in dissipative particle dynamics. (English summary) **2005m:76143**
Porter, R. M. *see* **Gorostiza, Luis G. et al., 2005c:76085**
Potapov, P. *see* **Nekrutkin, V.**
Régnier, Hervé (*with* Talay, Denis) Convergence rate of the Sherman and Peskin branching stochastic particle method. (English summary) **2005b:60227**
Rodrigues, E. R. *see* **Gorostiza, Luis G. et al., 2005c:76085**
Sabelfeld, Karl K. *see* **Kolodko, A., 2005a:82102** *and* **Kolyukhin, D. R.**
Selberherr, S. *see* **Kosina, H. et al., 2005g:82114**
Soboleva, O. N. *see* **Kuz′min, G. A.**
Talay, Denis *see* **Régnier, Hervé, 2005b:60227**
Tsvetova, E. A. *see* **Penenko, V. V., (2005i:65006)**

65C40 Computational Markov chains

Bryant, Darryn *see* **Keith, Jonathan M. et al., 2005a:65006**
Chib, Siddhartha Markov chain Monte Carlo technology. (*see* **2005g:62004**)
Gåsemyr, Jørund (*with* Natvig, Bent; Nygård, Cecilie Sjuls) An application of adaptive independent chain Metropolis-Hastings algorithms in Bayesian hazard rate estimation. (English summary) **2005f:65015**
Keith, Jonathan M. (*with* Kroese, Dirk P.; Bryant, Darryn) A generalized Markov sampler. (English summary) **2005a:65006**
Kroese, Dirk P. *see* **Keith, Jonathan M. et al., 2005a:65006**
Marek, Ivo Inexact on coarse level aggregation/disaggregation algorithms for computation stationary probability vectors of Markov chains. (English summary) (*see* **2005i:65006**)
Medvedev, I. N. *see* **Mikhailov, Gennadii A., 2005f:65016**
Mikhailov, Gennadii A. (*with* Medvedev, I. N.) Optimization of weighted Monte Carlo methods with respect to auxiliary variables. (Russian. Russian summary) **2005f:65016**
Natvig, Bent *see* **Gåsemyr, Jørund et al., 2005f:65015**
Nygård, Cecilie Sjuls *see* **Gåsemyr, Jørund et al., 2005f:65015**

Items with secondary classifications in 65C40

Alfa, Attahiru Sule *see* **Neuts, Marcel F., 2005k:60279**
Andreev, D. B. (*with* Krylov, E. A.; Zeifman, A. I.) On nonergodicity of some continuous-time Markov chains. **2005f:60155**
Baxendale, Peter H. Renewal theory and computable convergence rates for geometrically ergodic Markov chains. (English summary) **2005m:60164**
Buchholz, Peter (*with* Dayar, Tuğrul) Comparison of multilevel methods for Kronecker-based Markovian representations. (English summary)
Caballero, M. E. (*with* Rivero, Víctor; Uribe Bravo, G.; Velarde, Carlos) ★ Cadenas de Markov. (Spanish) [Markov chains] **2005i:60001**
Dayar, Tuğrul *see* **Buchholz, Peter**
Fehrenbach, Johannes (*with* Rüschendorf, Ludger) Markov chain algorithms for Eulerian orientations and 3-colourings of 2-dimensional Cartesian grids. (English summary) **2005m:60012**
Frühwirth-Schnatter, Sylvia Estimating marginal likelihoods for mixture and Markov switching models using bridge sampling techniques. (English summary)
Gilardoni, Gustavo L. Accuracy of posterior approximations via χ^2 and harmonic divergences. (English summary)
Higham, Desmond J. A matrix perturbation view of the small world phenomenon. (English summary) **2005f:60158**
Huber, Mark Perfect sampling using bounding chains. (English summary) **2005f:60151**
Krylov, E. A. *see* **Andreev, D. B. et al., 2005f:60155**
Kushner, Harold J. Numerical approximations for stochastic differential games: the ergodic case. (English summary) **2005d:91014**
Kyriakidis, E. G. Optimal control of a simple immigration-emigration process through total catastrophes. (English summary) **2005a:90176**
Langville, Amy N. (*with* Stewart, William J.) Testing the nearest Kronecker product preconditioner on Markov chains and stochastic automata networks. (English summary)
— (*with* Stewart, William J.) A Kronecker product approximate preconditioner for SANs. (English summary) **2005k:65068**
Lécot, Christian (*with* Tuffin, Bruno) Quasi-Monte Carlo methods for estimating transient measures of discrete time Markov chains. (English summary) (*see* **2005b:65002**)
León, Carlos A. (*with* Perron, François) Optimal Hoeffding bounds for discrete reversible Markov chains. (English summary) **2005d:60109**
Marek, Ivo (*with* Szyld, Daniel B.) Algebraic Schwarz methods for the numerical solution of Markov chains. (English summary) **2005i:60005**
Mathé, Peter Numerical integration using V-uniformly ergodic Markov chains. (English summary) **2005k:60225**
Matsui, Tomomi (*with* Matsui, Yasuko; Ono, Yoko) Random generation of $2 \times 2 \times \cdots \times 2 \times J$ contingency tables. (English summary) **2005g:62102**
Matsui, Yasuko *see* **Matsui, Tomomi et al., 2005g:62102**
Neuts, Marcel F. (*with* Alfa, Attahiru Sule) Pair formation in a Markovian arrival process with two event labels. (English summary) **2005k:60279**
Ono, Yoko *see* **Matsui, Tomomi et al., 2005g:62102**
Perron, François *see* **León, Carlos A., 2005d:60109**
Pritchard, Geoffrey (*with* Scott, David J.) The eigenvalues of the empirical transition matrix of a Markov chain. (English summary) **2005d:62133**
Rivero, Víctor *see* **Caballero, M. E. et al., 2005i:60001**
Rüschendorf, Ludger *see* **Fehrenbach, Johannes, 2005m:60012**
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65C50 Other computational problems in probability

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Amir-Atefi, Keyvan *see* **D'Souza, Dylan et al., (2005b:91009)**
D'Souza, Dylan (*with* Amir-Atefi, Keyvan; Racheva-Jotova, Borjana) Valuation of a credit spread put option: the stable Paretian model with copulas. (*see* **2005b:91009**)
Goldenshluger, Alexander (*with* Tsybakov, A. B.) Estimating the endpoint of a distribution in the presence of additive observation errors. (English summary) **2005b:62084**
Kusuoka, Shigeo Approximation of expectation of diffusion processes based on Lie algebra and Malliavin calculus. (English summary) **2005h:60124**
Mohammadpour, Adel (*with* Soltani, A. Reza) On simulating exchangeable sub-Gaussian random vectors. (English summary) **2005g:62093**
Nacu, Şerban (*with* Peres, Yuval) Fast simulation of new coins from old. (English summary) **2005k:60035**
Ogorodnikov, V. A. *see* **Protasov, A. V., (2005i:65006)**

Peres, Yuval *see* **Nacu, Şerban, 2005k:60035**
Protasov, A. V. (*with* Ogorodnikov, V. A.) Dynamic probabilistic method of numerical modeling of stochastic multidimensional fields. (English summary) (*see* **2005i:65006**)
Racheva-Jotova, Borjana *see* **D'Souza, Dylan et al., (2005b:91009)** *and* **Stoyanov, Stoyan V., (2005b:91009)**
Soltani, A. Reza *see* **Mohammadpour, Adel, 2005g:62093**
Stoyanov, Stoyan V. (*with* Racheva-Jotova, Borjana) Numerical methods for stable modeling in financial risk management. (English summary) (*see* **2005b:91009**)
Tsybakov, A. B. *see* **Goldenshluger, Alexander, 2005b:62084**

65C60 Computational problems in statistics

Ososkov, Gennadii A. Elastic arm methods of data analysis as a robust approach. (English summary) **2005g:65028**

Items with secondary classifications in 65C60

Bad-Dumitrescu, Monica E. (*with* Panaite, Victorina) Complete Neyman-Bayes estimation procedures for the mean of a normal distribution. (English summary) **2005b:62059**
Baryamureeba, Venansius The impact of equal weighting of low- and high-confidence observations on robust linear regression computations. (English summary) **2005a:62156**
Chen, Shun Hua *see* **Lü, Chun Lian, 2005k:62212**
Dunagan, John (*with* Vempala, Santosh S.) Optimal outlier removal in high-dimensional. (English summary) (*see* **2005j:68008**)
Dunajeva, Olga (*with* Kollo, Tõnu; Traat, Imbi) Bias correction for the shape parameter of the skew normal distribution. (English summary) **2005c:62100**
Elishakoff, Isaac Notes on philosophy of the Monte Carlo method. (English and Ukrainian summaries) **2005d:65008**
Emond, Mary J. *see* **Nan, Bin et al., 2005c:62032**
Gascuel, Olivier (*with* McKenzie, Andy) Performance analysis of hierarchical clustering algorithms. (English summary) **2005e:62095**
Givens, Geof H. (*with* Hoeting, Jennifer A.) ★ Computational statistics. **2005h:62003**
Gouda, Ashraf A. (*with* Szántai, Tamás) New sampling techniques for calculation of Dirichlet probabilities. (English summary)
Guirguis, Georges H. (*with* Tobias, R. D.) On the computation of the distribution for the analysis of means. (English summary)
Hobert, James P. *see* **Marchev, Dobrin, 2005d:60107**
Hoeting, Jennifer A. *see* **Givens, Geof H., 2005h:62003**
Hušková, Marie (*with* Neuhaus, Georg) Change point analysis for censored data. (English summary) **2005m:62102**
Kollo, Tõnu *see* **Dunajeva, Olga et al., 2005c:62100**
Lü, Chun Lian (*with* Chen, Shun Hua) Numerical analysis of stable cointegration for time series. (Chinese. English summary) **2005k:62212**
Marchev, Dobrin (*with* Hobert, James P.) Geometric ergodicity of van Dyk and Meng's algorithm for the multivariate Student's t model. (English summary) **2005d:60107**
McKenzie, Andy *see* **Gascuel, Olivier, 2005e:62095**
Nan, Bin (*with* Emond, Mary J.; Wellner, Jon A.) Information bounds for Cox regression models with missing data. (English summary) **2005c:62032**
Neuhaus, Georg *see* **Hušková, Marie, 2005m:62102**
Panaite, Victorina *see* **Bad-Dumitrescu, Monica E., 2005b:62059**
Sasaki, Tateaki Approximate multivariate polynomial factorization based on zero-sum relations. (English summary) **2005f:13032**
Szántai, Tamás *see* **Gouda, Ashraf A.**
Tobias, R. D. *see* **Guirguis, Georges H.**
Traat, Imbi *see* **Dunajeva, Olga et al., 2005c:62100**
Văduva, Ion Simulation of some multivariate distributions. (English summary) **2005a:62132**
Vempala, Santosh S. *see* **Dunagan, John, (2005j:68008)**
Wellner, Jon A. *see* **Nan, Bin et al., 2005c:62032**

65C99 None of the above, but in this section

Items with secondary classifications in 65C99

Ausloos, Marcel (*with* Clippe, Paulette; Miśkiewicz, Janusz; Pękalski, Andrzej) A (reactive) lattice-gas approach to economic cycles. (English summary)
Burmistrov, A. V. Improvement of the Euler scheme for the solution of a stationary diffusion equation by extrapolation. (English summary) **2005h:65250**
Clippe, Paulette *see* **Ausloos, Marcel et al.**
Frauendorfer, Karl (*with* Haarbrücker, Gido) Numerical techniques in applied multistage stochastic programming. (English summary) **2005e:90079**
Haarbrücker, Gido *see* **Frauendorfer, Karl, 2005e:90079**
Miśkiewicz, Janusz *see* **Ausloos, Marcel et al.**
Pamuk, Serdal The decomposition method for continuous population models for single and interacting species. (English summary) **2005h:34019**
Pękalski, Andrzej *see* **Ausloos, Marcel et al.**
Yeung, Man-Chung Probabilistic analysis of complex Gaussian elimination without pivoting. (English summary) **2005c:65020**

65Dxx Numerical approximation and computational geometry (primarily algorithms) {For theory, see 41–XX and 68Uxx.}

65D05 Interpolation

Berrut, Jean-Paul (*with* Trefethen, Lloyd N.) Barycentric Lagrange interpolation. (English summary) **2005k:65018**
Cheng, Hao *see* **Wang, Yong[7] et al., 2005m:65014**
Dzoumba, J. *see* **Moukoko, D.**
Fang, Shu-Cherng *see* **Wang, Yong[7] et al., 2005m:65014**
Faul, A. C. (*with* Goodsell, G.; Powell, M. J. D.) A Krylov subspace algorithm for multiquadric interpolation in many dimensions. (English summary) **2005i:65016**
Fornberg, Bengt (*with* Wright, Grady) Stable computation of multiquadric interpolants for all values of the shape parameter. (English summary) **2005j:65009**
Gilev, B. New method to compose subdivision schemes. (English summary)
— Two dimensional subdivision schemes based on average values. (English summary)
Glader, Christer (*with* Lindström, Mikael) A new algorithm for meromorphic Nevanlinna-Pick interpolation. (English summary) **2005m:65012**
Goodsell, G. *see* **Faul, A. C. et al., 2005i:65016**
Higham, Nicholas J. The numerical stability of barycentric Lagrange interpolation. (English summary) **2005e:65007**
Kozak, Jernej (*with* Žagar, Emil) On geometric interpolation by polynomial curves. (English summary) **2005k:65019**
Lavery, John E. *see* **Wang, Yong[7] et al., 2005m:65014**
Lin, Fuyong[2] Multi-solution theory of signal processing based on finite element method. (English summary)
Lindström, Mikael *see* **Glader, Christer, 2005m:65012**
Militaru, Romulus A polynomial interpolation algorithm for estimating a numerical function. (English summary) **2005a:65007**
Moukoko, D. (*with* Dzoumba, J.) Newton form of Hermite interpolation polynomial. (English summary)
Pang, Jong-Shi (*with* Yu, Thomas P.-Y.) Continuous M-estimators and their interpolation by polynomials. (English summary) **2005k:65020**
Powell, M. J. D. *see* **Faul, A. C. et al., 2005i:65016**
Silver, G. L. Analysis of three-dimensional grids: five- and nine-point cubes. (English summary) **2005h:65013**
— Analysis of three-dimensional grids: cubes and cubic coefficients. (English summary) **2005m:65013**
— Analysis of three-dimensional grids: four- and five-point cubes. (English summary)
Simian, Dana On some particular examples for least interpolation. (English summary) (*see* **2004g:00020**)
Sukumar, N. Construction of polygonal interpolants: a maximum entropy approach. (English summary) **2005h:65014**
Trefethen, Lloyd N. *see* **Berrut, Jean-Paul, 2005k:65018**
Wang, Yong[7] (*with* Fang, Shu-Cherng; Lavery, John E.; Cheng, Hao) A geometric programming approach for bivariate cubic L_1 splines. (English summary) **2005m:65014**
Wright, Grady *see* **Fornberg, Bengt, 2005j:65009**
Yu, Thomas P.-Y. *see* **Pang, Jong-Shi, 2005k:65020**
Žagar, Emil *see* **Kozak, Jernej, 2005k:65019**

Items with secondary classifications in 65D05

Abbasbandy, S. (*with* Fariborzi Araghi, M. A.) The use of the stochastic arithmetic to estimate the value of interpolation polynomial with optimal degree. (English summary) **2005f:41002**
Ahmad, M. Omair *see* **Samadi, Saed et al., 2005g:94022**
Apel, Thomas (*with* Pester, Cornelia) Clement-type interpolation on spherical domains—interpolation error estimates and application to a posteriori error estimation. (English summary) **2005j:65132**
Aràndiga, Francesc (*with* Belda, Ana María) Weighted ENO interpolation and applications. (English summary) **2005h:41003**
Ballester, Coloma (*with* Caselles, Vicent; Verdera, Joan[2]) Disocclusion by joint interpolation of vector fields and gray levels. (English summary) **2005b:68271**
Belda, Ana María *see* **Aràndiga, Francesc, 2005h:41003**
Birou, Marius *see* **Coman, Gheorghe, 2005g:41002**
Brownlee, Rob (*with* Light, Will) Approximation orders for interpolation by surface splines to rough functions. (English summary) **2005c:41013**
Bultheel, Adhemar *see* **Van Deun, J., 2005k:42076**
Caliari, Marco (*with* De Marchi, Stefano; Vianello, Marco) Bivariate polynomial interpolation on the square at new nodal sets. (English summary) **2005k:41005**
Capobianco, M. R. (*with* Themistoclakis, W.) Interpolating polynomial wavelets on $[-1, 1]$. (English summary) **2005m:42060**
Carnicer, J. M. (*with* Gasca, M.) Classification of bivariate configurations with simple Lagrange interpolation formulae. (English summary) **2005f:41004**
Caselles, Vicent *see* **Ballester, Coloma et al., 2005b:68271**
Ciliberto, Ciro (*with* Cioffi, Francesca; Miranda, Rick; Orecchia, Ferruccio) Bivariate Hermite interpolation and linear systems of plane curves with base fat points. (English summary) **2005c:41002**
Cioffi, Francesca *see* **Ciliberto, Ciro et al., 2005c:41002**
Coman, Gheorghe (*with* Pop, Ioana) Some interpolation schemes on triangle. (English summary)
— (*with* Birou, Marius) Bivariate spline-polynomial interpolation. **2005g:41002**
Costabile, F. A. (*with* Dell'Accio, F.) Lidstone approximation on the triangle. (English summary) **2005i:41042**
— (*with* Dell'Accio, F.; Luceri, R.) Explicit polynomial expansions of regular real functions by means of even order Bernoulli polynomials and boundary values. (English summary) **2005h:41008**
Costantini, Paolo (*with* Manni, Carla) Some applications of new spline spaces in computer aided geometric design. (English summary) **2005m:65023**
Crainic, Nicolae On the necessary and sufficient condition for the regularity of a multidimensional interpolation scheme. (English summary) **2005h:41066**
— Multivariate Birkhoff-Lagrange interpolation schemes and Cartesian sets of nodes. (English summary) **2005i:41001**
Cui, Li Hong[1] *see* **Liang, Xue Zhang et al., 2005d:41007**
Dasgupta, Gautam *see* **Malsch, Elisabeth Anna, 2005b:80016**
Dell'Accio, F. *see* **Costabile, F. A. et al., 2005h:41008** *and* **2005i:41042**
De Marchi, Stefano On optimal center locations for radial basis function interpolation: computational aspects. (English summary) **2005g:41003**
— (*with* Schaback, Robert; Wendland, Holger) Near-optimal data-independent point locations for radial basis function interpolation. (English summary) **2005m:41066**

— *see also* **Caliari, Marco et al., 2005k:41005**
Fariborzi Araghi, M. A. *see* **Abbasbandy, S., 2005f:41002**
Flyer, Natasha *see* **Fornberg, Bengt, 2005k:41098**
Fornberg, Bengt (*with* Flyer, Natasha) Accuracy of radial basis function interpolation and derivative approximations on 1-D infinite grids. (English summary) **2005k:41098**
— *see also* **Larsson, Elisabeth, 2005k:41100**
Gasca, M. *see* **Carnicer, J. M., 2005f:41004**
Huang, Xu Dong[1] *see* **Lin, Lu[1]**
Il'yuta, G. G. Symmetric function interpolation and alternating higher Bruhat orders. (Russian. Russian summary) **2005e:05152**
— Interlacing zeros and divided differences. (Russian) **2005m:41012**
Jiao, Jian Ling *see* **Wang, Jia Zheng**
Klassen, Eric Paul *see* **Mio, W. et al., 2005d:41008**
Lamberti, Paola (*with* Manni, Carla) Tensioned quasi-interpolation via geometric continuity. (English summary) **2005c:41005**
Larsson, Elisabeth (*with* Fornberg, Bengt) Theoretical and computational aspects of multivariate interpolation with increasingly flat radial basis functions. (English summary) **2005k:41100**
Lebedev, V. I. Extremal polynomials and methods for the optimization of numerical algorithms. (Russian. Russian summary) **2005m:41058**
Liang, Xue Zhang (*with* Cui, Li Hong[1]; Zhang, Jie-Lin) The application of Cayley-Bacharach theorem to bivariate Lagrange interpolation. (English summary) **2005d:41007**
Light, Will *see* **Brownlee, Rob, 2005c:41013**
Lin, Lu[1] (*with* Huang, Xu Dong[1]) A parallel algorithm for Lagrange interpolation polynomials. (Chinese. English and Chinese summaries)
Ling, Leevan Multivariate quasi-interpolation schemes for dimension-splitting multiquadric. (English summary)
Luceri, R. *see* **Costabile, F. A. et al., 2005h:41008**
Malsch, Elisabeth Anna (*with* Dasgupta, Gautam) Interpolations for temperature distributions: a method for all non-concave polygons. (English summary) **2005b:80016**
Manni, Carla *see* **Lamberti, Paola, 2005c:41005** *and* **Costantini, Paolo, 2005m:65023**
Mio, W. (*with* Srivastava, Anuj; Klassen, Eric Paul) Interpolations with elasticae in Euclidean spaces. (English summary) **2005d:41008**
Miranda, Rick *see* **Ciliberto, Ciro et al., 2005c:41002**
Muraru, Carmen Some remarks on theory of interpolation. (English summary)
Nürnberger, Günther (*with* Rössl, Christian; Seidel, Hans-Peter; Zeilfelder, Frank) Quasi-interpolation by quadratic piecewise polynomials in three variables. (English summary) **2005m:41008**
Orecchia, Ferruccio *see* **Ciliberto, Ciro et al., 2005c:41002**
Pester, Cornelia *see* **Apel, Thomas, 2005j:65132**
Petrov, Petar P. Interpolation with restricted arc length. (English summary) **2005c:41029**
Pop, Ioana *see* **Coman, Gheorghe**
Rössl, Christian *see* **Nürnberger, Günther et al., 2005m:41008**
Sablonnière, Paul Bernstein-type bases and corner cutting algorithms for C^1 Merrien's curves. (English summary) **2005e:41009**
Samadi, Saed (*with* Ahmad, M. Omair; Swamy, M. N. S.) Results on maximally flat fractional-delay systems. (English summary) **2005g:94022**
Schaback, Robert Multivariate interpolation by polynomials and radial basis functions. (English summary) **2005m:41022**
— *see also* **De Marchi, Stefano et al., 2005m:41066**
Seidel, Hans-Peter *see* **Nürnberger, Günther et al., 2005m:41008**
Shekhtman, Boris Polynomial interpolation in R_3. (English summary) **2005h:41041**
— On Hermite interpolation in R_d. (English summary) **2005m:41009**
Sheng, Jin-miao *see* **Wu, Hua Zhang**
Simian, Dana A remainder formula for Hermite multivariate interpolation. (English summary) **2005i:41002**
Sobczyk, Garret Quantum Hermite interpolation polynomials. (English summary) (*see* **2005h:90008**)
Srivastava, Anuj *see* **Mio, W. et al., 2005d:41008**
Swamy, M. N. S. *see* **Samadi, Saed et al., 2005g:94022**
Themistoclakis, W. *see* **Capobianco, M. R., 2005m:42060**
Van Deun, J. (*with* Bultheel, Adhemar) An interpolation algorithm for orthogonal rational functions. (English summary) **2005k:42076**
Verdera, Joan[2] *see* **Ballester, Coloma et al., 2005b:68271**
Verlan, Igor About a family of C^2 splines with one free generating function. (English summary)
Vianello, Marco *see* **Caliari, Marco et al., 2005k:41005**
Wang, Guo Jin[1] *see* **Zhang, Hongxin, 2005j:65023**
Wang, Jia Zheng (*with* Jiao, Jian Ling) Show formula of bivariate contact interpolation over rectangular grids. (Chinese. English summary)
— The existence problem of bivariate rational interpolation on rectangular grids. (Chinese. English summary) **2005k:41047**
Wendland, Holger *see* **De Marchi, Stefano et al., 2005m:41066**
Wu, Hua Zhang (*with* Sheng, Jin-miao) A unified approach to a class of interpolation problems. (English and Chinese summaries)
Xu, Guo-liang Interpolation by Loop's subdivision functions. (English summary) **2005m:41011**
Xu, Yuan[1] Polynomial interpolation on the unit sphere and on the unit ball. (English summary) **2005c:41006**
Zeilfelder, Frank *see* **Nürnberger, Günther et al., 2005m:41008**
Zhang, Hongxin (*with* Wang, Guo Jin[1]) Analytical properties of semi-stationary subdivision schemes. (English summary) **2005j:65023**
Zhang, Jie-Lin *see* **Liang, Xue Zhang et al., 2005d:41007**
Zuppa, Carlos Error estimates for modified local Shepard's interpolation formula. (English summary) **2005a:41020**

65D07 Splines

Alexiev, Kiril (*with* Kounchev, Ognyan; Render, Hermann) Stable recurrence relations for a class of L-splines and for polysplines. (English summary) (*see* **2005i:65007**)
Awanou, Gerard (*with* Lai, Ming-Jun) Trivariate spline approximations of 3D Navier-Stokes equations. (English summary) **2005m:65015**
Ball, Alan A. *see* **Cripps, Robert J., (2005i:65007)**
Cheng, Hao (*with* Fang, Shu-Cherng; Lavery, John E.) An efficient algorithm for generating univariate cubic L_1 splines. (English summary) **2005h:65015**
— (*with* Fang, Shu-Cherng; Lavery, John E.) A geometric programming framework for univariate cubic L_1 smoothing splines. (English summary) **2005i:65017**
Cripps, Robert J. (*with* Ball, Alan A.) Orthogonal C^2 cubic spline curves. (English summary) (*see* **2005i:65007**)
Dubey, Y. P. *see* **Rana, S. S. et al., 2005e:65008**
Fang, Shu-Cherng *see* **Cheng, Hao et al., 2005h:65015** *and* **2005i:65017**
Flusser, Jan *see* **Luner, Petr, 2005m:65017**
Goodman, Tim N. T. (*with* Ong, B. H.) Shape-preserving interpolation by splines using vector subdivision. (English summary) **2005m:65016**
Gupta, R. *see* **Rana, S. S. et al., 2005e:65008**
Jha, V. N. Local behaviour of cubic spline interpolation. (English summary)
Kamada, Masaru Sampling and modified optimization for reproduction of handwritten letters. (English summary) **2005g:65029**
Kounchev, Ognyan *see* **Alexiev, Kiril et al., (2005i:65007)**
Lai, Ming-Jun *see* **Awanou, Gerard, 2005m:65015**
Landi, Germana *see* **Loli Piccolomini, Elena et al.**
Lavery, John E. *see* **Cheng, Hao et al., 2005h:65015** *and* **2005i:65017**
Lei, Dongdong (*with* Mason, J. C.) A decomposition method for l_1 approximation. (English summary) **2005i:65018**
Lin, Fuyong[2] Orthogonal bases of 3-B-spline and its' application in bending problem of plate and beam system. (English summary)
Loli Piccolomini, Elena (*with* Landi, Germana; Zama, F.) A B-spline parametric model for high resolution dynamic magnetic resonance imaging. (English summary)
Luner, Petr (*with* Flusser, Jan) Fast evaluation of thin-plate splines on fine square grids. (English summary) **2005m:65017**
Lyche, T. (*with* Peña, Juan Manuel) Optimally stable multivariate bases. (English summary) **2005d:65010**
Mainar, E. (*with* Peña, Juan Manuel) Quadratic-cycloidal curves. (English summary) **2005a:65008**
Mair, Bernard A. *see* **Wilson, David Clifford, (2005h:94001)**
Mason, J. C. *see* **Lei, Dongdong, 2005i:65018**
Neamtu, Marian (*with* Schumaker, Larry L.) On the approximation order of splines on spherical triangulations. (English summary) **2005b:65010**
Nikolis, Athanassios (*with* Seimenis, Ioannis) Solving dynamical systems with cubic trigonometric splines. **2005k:65021**
Ong, B. H. *see* **Goodman, Tim N. T., 2005m:65016**
Pan, Ri Hong *see* **Pan, Ri Jing et al., 2005a:65009**
Pan, Ri Jing (*with* Yao, Zhi Qiang; Pan, Ri Hong) Degree reduction formula and approximate degree reduction of B-spline curves. (Chinese. English and Chinese summaries) **2005a:65009**
Peña, Juan Manuel *see* **Mainar, E., 2005a:65008** *and* **Lyche, T., 2005d:65010**
Rana, S. S. (*with* Dubey, Y. P.; Gupta, R.) Convergence of deficient discrete cubic spline interpolation. (English summary) **2005e:65008**
Render, Hermann *see* **Alexiev, Kiril et al., (2005i:65007)**
Renka, Robert J. Algorithm 828: DNSPLIN1: discrete nonlinear spline interpolation. (English summary) **2005b:65011**
Riedel, Karl O. Two-dimensional splines on fairly arbitrary meshes. (English summary) **2005m:65018**
Schumaker, Larry L. *see* **Neamtu, Marian, 2005b:65010**
Seimenis, Ioannis *see* **Nikolis, Athanassios, 2005k:65021**
Sheng, Yu Bo *see* **Wu, Qiang[1]**
Volkov, Yu. S. A new method for constructing cubic interpolation splines. (Russian. Russian summary) **2005k:65022**
Wang, Jing Xin *see* **Wang, Ren Hong, 2005m:65019**
Wang, Ren Hong (*with* Wang, Jing Xin) The poisedness of interpolation problem for splines. (English summary) **2005m:65019**
Wilson, David Clifford (*with* Mair, Bernard A.) Thin-plate spline interpolation. (*see* **2005h:94001**)
Wu, Qiang[1] (*with* Sheng, Yu Bo) Error fitting for spline interpolating functions of the GM(1, 1) model. (Chinese. English and Chinese summaries)
Yao, Zhi Qiang *see* **Pan, Ri Jing et al., 2005a:65009**
Zama, F. *see* **Loli Piccolomini, Elena et al.**

Items with secondary classifications in 65D07

Alba-Fernández, V. (*with* Ibáñez Pérez, María José; Jiménez-Gamero, M. D.) A bootstrap algorithm for the two-sample problem using trigonometric Hermite spline interpolation. (English summary) **2005c:62084**
Ameur, El Bachir (*with* Sbibih, Driss; Sablonnière, Paul) A general multiresolution method for fitting functions on the sphere. (English summary) **2005a:41005**
— (*with* Sbibih, Driss) Quadratic spline wavelets with arbitrary simple knots on the sphere. (English summary) **2005a:41006**
Andrle, Miroslav (*with* Rebollo-Neira, Laura) Cardinal B-spline dictionaries on a compact interval. (English summary) **2005m:41014**
Anile, Angelo Marcello (*with* Spinella, Salvatore) Modeling uncertain sparse data with fuzzy B-splines. (English summary) **2005d:65011**
Barrera Rosillo, Domingo (*with* Ibáñez Pérez, María José; Sablonnière, Paul; Sbibih, Driss) Near minimally normed spline quasi-interpolants on uniform partitions. (English summary) **2005m:41016**
Bercovier, M. *see* **Goldenthal, R., 2005h:41012**
Bertram, Martin *see* **Wiley, David F. et al., 2005e:65014**
Bultheel, Adhemar *see* **Maes, Jan et al., 2005f:41029**
Chaniotis, A. K. (*with* Poulikakos, Dimos) High order interpolation and differentiation using B-splines. (English summary) **2005c:41014**

Che, Xiang Jiu (*with* Liang, Xue Zhang) G^1 continuity conditions of two adjacent B-spline surfaces. (Chinese. English and Chinese summaries) **2005k:65028**
Cheng, Hao *see* **Wang, Yong[7] et al., 2005m:65014**
Chudnovsky, David V. (*with* Chudnovsky, Gregory V.) Use of Padé approximations in spline construction. **2005f:41023**
Chudnovsky, Gregory V. *see* **Chudnovsky, David V., 2005f:41023**
Dagnino, Catterina (*with* Demichelis, V.; Santi, Elisabetta) On optimal nodal splines and their applications. (English summary) **2005d:41011**
— (*with* Lamberti, Paola) Some performances of local bivariate quadratic C^1 quasi-interpolating splines on nonuniform type-2 triangulations. (English summary) **2005k:41021**
Davydov, Oleg (*with* Zeilfelder, Frank) Scattered data fitting by direct extension of local polynomials to bivariate splines. (English summary) **2005m:65020**
De Caro, Davide (*with* Strollo, Antonio G. M.) High-performance direct digital frequency synthesizers using piecewise-polynomial approximation. (English summary)
Demichelis, V. (*with* Rabinowitz, Philip) Finite-part integrals and modified splines. (English summary) **2005e:65025**
— *see also* **Dagnino, Catterina et al., 2005d:41011**
Dierckx, Paul *see* **Maes, Jan et al., 2005f:41029**
(Dokken, Tor) *see* **Computational methods for algebraic spline surfaces, 2005j:65001**
Dol'nikov, V. L. (*with* Strelkov, N. A.) Exact constants for cubic spline inequalities. (English summary) (*see* **2005i:65006**)
Enkhbat, Rentsen *see* **Kamada, Masaru, 2005e:41024**
Fang, Shu-Cherng *see* **Wang, Yong[7] et al., 2005m:65014**
Feng, Ren-Zhong (*with* Wang, Ren Hong) Closed smooth surface defined from cubic triangular splines. (English summary) **2005i:41009**
Fu, Camel Y. *see* **Shih, Frank Y. et al.**
Fu, Kai Xin *see* **Liang, Hui Fang**
Georgieva, I. K. Bivariate interpolation by (m, n)-splines. (English summary) **2005m:41019**
Goldenthal, R. (*with* Bercovier, M.) Spline curve approximation and design by optimal control over the knots. (English summary) **2005h:41012**
Grandine, Thomas A. (*with* Hogan, Thomas A.) A parametric quartic spline interpolant to position, tangent and curvature. (English summary) **2005i:41010**
Grigorieff, Rolf Dieter Superapproximation for projections on spline spaces. (English summary) **2005i:41011**
Guan, Yu-jing (*with* Han, Li-wen; Zhou, Yun-shi) M-band subdivision of multivariate B-spline. (English summary) **2005e:41022**
Habib, Zulfiqar (*with* Sakai, Manabu) Spiral transition curves and their applications. (English summary) **2005j:65014**
Hamann, Bernd *see* **Wiley, David F. et al., 2005e:65014**
Han, Li-wen *see* **Guan, Yu-jing et al., 2005e:41022**
Hangelbroek, Thomas (*with* Nürnberger, Günther; Rössl, Christian; Seidel, Hans-Peter; Zeilfelder, Frank) Dimension of C^1-splines on type-6 tetrahedral partitions. (English summary) **2005g:41020**
He, Tian Xiao Biorthogonal spline type wavelets. (English summary) **2005h:42071**
Hogan, Thomas A. *see* **Grandine, Thomas A., 2005i:41010**
Hong, Don (*with* Schumaker, Larry L.) Surface compression using a space of C^1 cubic splines with a hierarchical basis. (English summary) **2005f:41026**
Hu, Shi-Min *see* **Huang, Qi-Xing et al., 2005j:41006**
Huang, Qi-Xing (*with* Hu, Shi-Min; Martin, Ralph R.) Fast degree elevation and knot insertion for B-spline curves. (English summary) **2005j:41006**
Ibáñez Pérez, María José *see* **Alba-Fernández, V. et al., 2005c:62084** *and* **Barrera Rosillo, Domingo et al., 2005m:41016**
Ingram, Christopher K. (*with* Mann, Stephen) Geometric B-splines over triangular domains. (English summary) (*see* **2005i:65007**)
Jaklič, Gašper (*with* Kozak, Jernej) On the dimension of bivariate spline space $S_3^1(\Delta)$. (English summary) **2005m:41020**
Jiménez-Gamero, M. D. *see* **Alba-Fernández, V. et al., 2005c:62084**
Jordan, Benjamin W. *see* **Wiley, David F. et al., 2005e:65014**
Joy, Kenneth I. *see* **Wiley, David F. et al., 2005e:65014**
(Jüttler, Bert) *see* **Computational methods for algebraic spline surfaces, 2005j:65001**
Kamada, Masaru (*with* Enkhbat, Rentsen) Periodic spline orthonormal bases closest to periodic B-splines. (English summary) **2005e:41024**
Kazakevičiūtė, Margarita *see* **Krasauskas, Rimvydas, 2005m:65026**
Kouibia, Abdelouahed (*with* Pasadas, Miguel) Approximation of surfaces by fairness bicubic splines. (English summary) **2005f:41028**
Kozak, Jernej *see* **Jaklič, Gašper, 2005m:41020**
Krasauskas, Rimvydas (*with* Kazakevičiūtė, Margarita) Universal rational parametrizations and spline curves on toric surfaces. (English summary) **2005m:65026**
Kvasov, Boris I. DMBVP for tension splines. (English summary) **2005k:41023**
Lai, Ming-Jun (*with* Wenston, Paul) L_1 spline methods for scattered data interpolation and approximation. (English summary) **2005d:65012**
Lamberti, Paola *see* **Dagnino, Catterina, 2005k:41021**
Lavery, John E. The state of the art in shape-preserving, multiscale modeling by L_1 splines. (English summary) (*see* **2005i:65007**)
— Shape-preserving approximation of multiscale univariate data by cubic L_1 spline fits. (English summary) **2005c:41028**
— *see also* **Wang, Yong[7] et al., 2005m:65014**
Li, Yue Sheng (*with* Yang, Zhao Xia[1]) Multiscale decomposition of divided difference operators and nonstationary subdivision schemes of B-spline series. (Chinese. English summary) **2005k:41025**
Liang, Hui Fang (*with* Fu, Kai Xin) Approximation properties of spline wavelets interpolation on the interval and its parallel algorithm. (Chinese. English and Chinese summaries)
Liang, Xue Zhang *see* **Che, Xiang Jiu, 2005k:65028**
Maes, Jan (*with* Vanraes, Evelyne; Dierckx, Paul; Bultheel, Adhemar) On the stability of normalized Powell-Sabin B-splines. (English summary) **2005f:41029**
Maĭorov, V. E. On lower bounds in radial basis approximation. (English summary) **2005k:41050**
Mann, Stephen *see* **Ingram, Christopher K., (2005i:65007)**
Martin, Ralph R. *see* **Huang, Qi-Xing et al., 2005j:41006**
Max, Nelson L. *see* **Wiley, David F. et al., 2005e:65014**
Meek, D. S. (*with* Walton, D. J.) An arc spline approximation to a clothoid. (English summary) **2005d:65024**
Micula, Gheorghe A variational approach to spline functions theory. (English summary) **2005d:41014**
Mühlbach, Günter W. *see* **Tang, Yuehong, 2005k:41028**
Nouisser, O. (*with* Sbibih, Driss; Sablonnière, Paul) Pairs of B-splines with small support on the four-directional mesh generating a partition of unity. (English summary) **2005d:41016**
— (*with* Sbibih, Driss) Interpolation by new B-splines on a four directional mesh of the plane. (English summary) **2005a:41008**
Nürnberger, Günther *see* **Hangelbroek, Thomas et al., 2005g:41020**
Oja, Peeter (*with* Saveljeva, Darja) Quadratic spline collocation for Volterra integral equations. (English summary) **2005i:65225**
Pasadas, Miguel *see* **Kouibia, Abdelouahed, 2005f:41028**
Peters, Jörg (*with* Wu, Xiaobin) SLEVEs for planar spline curves. (English summary) **2005b:41008**
Poulikakos, Dimos *see* **Chaniotis, A. K., 2005c:41014**
Prautzsch, Hartmut B-splines with arbitrary connection matrices. (English summary) **2005a:41009**
Rabinowitz, Philip *see* **Demichelis, V., 2005e:65025**
Rebollo-Neira, Laura *see* **Andrle, Miroslav, 2005m:41014**
Roach, David (*with* Robinson, Richard J. M.) Knot removal using the bounding tension spline. (English summary) **2005e:41027**
Robinson, Richard J. M. *see* **Roach, David, 2005e:41027**
Rogina, Mladen Algebraic proof of the B-spline derivative formula. (English summary) **2005k:41026**
Rössl, Christian *see* **Hangelbroek, Thomas et al., 2005g:41020**
Rozhenko, Alexander I. On fitting inaccurate data with splines. (English summary) **2005j:65010**
Sablonnière, Paul Quadratic spline quasi-interpolants on bounded domains of $\mathbb{R}^d$, $d = 1, 2, 3$. (English summary) **2005f:41030**
— *see also* **Ameur, El Bachir et al., 2005a:41005**; **Nouisser, O. et al., 2005d:41016** *and* **Barrera Rosillo, Domingo et al., 2005m:41016**
Sakai, Manabu *see* **Habib, Zulfiqar, 2005j:65014**
Santi, Elisabetta *see* **Dagnino, Catterina et al., 2005d:41011**
Saveljeva, Darja *see* **Oja, Peeter, 2005i:65225**
Sbibih, Driss *see* **Ameur, El Bachir et al., 2005a:41005**; **2005a:41006**; **Nouisser, O. et al., 2005a:41008**; **2005d:41016** *and* **Barrera Rosillo, Domingo et al., 2005m:41016**
Scheuermann, Gerik *see* **Wiley, David F. et al., 2005e:65014**
Schumaker, Larry L. *see* **Hong, Don, 2005f:41026**
Seidel, Hans-Peter *see* **Hangelbroek, Thomas et al., 2005g:41020**
Shi, Xi Quan[2] *see* **Zhao, Yan, 2005m:41026**
Shih, Frank Y. (*with* Fu, Camel Y.; Zhang, Kai[3]) Multi-view face identification and pose estimation using B-spline interpolation. (English summary)
Sorokina, Tatyana (*with* Zeilfelder, Frank) Optimal quasi-interpolation by quadratic C^1-splines on type-2 triangulations. (English summary) **2005m:41023**
Spinella, Salvatore *see* **Anile, Angelo Marcello, 2005d:65011**
Strelkov, N. A. Wavelets generated by B-splines. (English summary) (*see* **2005i:65006**)
— *see also* **Dol'nikov, V. L., (2005i:65006)**
Strollo, Antonio G. M. *see* **De Caro, Davide**
Szkutnik, Zbigniew B-splines and discretization in an inverse problem for Poisson processes. (English summary) **2005j:62079**
Tai, Chiew-Lan (*with* Wang, Guo Jin[1]) Interpolation with slackness and continuity control and convexity-preservation using singular blending. (English summary) **2005g:41026**
Tang, Yuehong (*with* Mühlbach, Günter W.) Cardinal ECT-splines. (English summary) **2005k:41028**
Tohăneanu, Ştefan O. Smooth planar r-splines of degree $2r$. (English summary) **2005h:13028**
Van Fleet, Patrick J. Some recurrence formulas for box splines and cone splines. (English summary) **2005k:41029**
Vanraes, Evelyne *see* **Maes, Jan et al., 2005f:41029**
Volkov, Yu. S. Totally nonnegative matrices in methods for constructing interpolation splines of odd degree. (Russian. Russian summary) **2005m:41024**
Walton, D. J. *see* **Meek, D. S., 2005d:65024**
Wang, Guo Jin[1] *see* **Tai, Chiew-Lan, 2005g:41026**
Wang, Hong[4] (*with* Yue, Hong[2]) Detecting and diagnosing faults in dynamic stochastic distributions using a rational B-splines approximation to output PDFs. (English summary)
Wang, Ren Hong (*with* Zhu, Chun-Gang) Cayley-Bacharach theorem of piecewise algebraic curves. (English summary) **2005a:41027**
— *see also* **Xu, Zhi Qiang, 2005g:41027** *and* **Feng, Ren-Zhong, 2005i:41009**
Wang, Wen-ju The irreducibility and isomorphism of piecewise algebraic sets. (English and Chinese summaries) **2005a:14002**
Wang, Yong[7] (*with* Fang, Shu-Cherng; Lavery, John E.; Cheng, Hao) A geometric programming approach for bivariate cubic L_1 splines. (English summary) **2005m:65014**
Wenston, Paul *see* **Lai, Ming-Jun, 2005d:65012**
Wiley, David F. (*with* Bertram, Martin; Jordan, Benjamin W.; Hamann, Bernd; Joy, Kenneth I.; Max, Nelson L.; Scheuermann, Gerik) Hierarchical spline approximations. (English summary) **2005e:65014**
Wu, Xiaobin *see* **Peters, Jörg, 2005b:41008**
Xu, Zhi Qiang (*with* Wang, Ren Hong) The structural characterization and locally supported bases for bivariate super splines. (English summary) **2005g:41027**
Yang, Zhao Xia[1] *see* **Li, Yue Sheng, 2005k:41025**
Yue, Hong[2] *see* **Wang, Hong[4]**
Zeilfelder, Frank *see* **Hangelbroek, Thomas et al., 2005g:41020**; **Sorokina, Tatyana, 2005m:41023** *and* **Davydov, Oleg, 2005m:65020**
Zhang, Kai[3] *see* **Shih, Frank Y. et al.**

Zhao, Yan (*with* Shi, Xi Quan[2]) G^1 continuous condition of B-spline surfaces with double knots. (English and Chinese summaries) **2005m:41026**
Zhou, Yun-shi *see* **Guan, Yu-jing et al., 2005e:41022**
Zhu, Chun-Gang *see* **Wang, Ren Hong, 2005a:41027**

Items listed otherwise than by author

Computational methods for algebraic spline surfaces ★ Computational methods for algebraic spline surfaces. **2005j:65001**
Kefermarkt ★ Computational methods for algebraic spline surfaces. **2005j:65001**

65D10 Smoothing, curve fitting

Anile, Angelo Marcello (*with* Spinella, Salvatore) Modeling uncertain sparse data with fuzzy B-splines. (English summary) **2005d:65011**
Bertram, Martin *see* **Wiley, David F. et al., 2005e:65014**
Chernov, Nikolai I. (*with* Lesort, C.; Simányi, Nándor) On the complexity of curve fitting algorithms. (English summary) **2005b:65012**
Costantini, Paolo (*with* Pelosi, Francesca) Shape-preserving approximation of spatial data. (English summary) **2005a:65010**
Davydov, Oleg (*with* Zeilfelder, Frank) Scattered data fitting by direct extension of local polynomials to bivariate splines. (English summary) **2005m:65020**
Demetriou, I. C. Least squares convex-concave data smoothing. (English summary) **2005e:65009**
— A theorem for piecewise convex-concave data approximation. (English summary) **2005g:65030**
Feraudi, F. *see* **de Tisi, F.**
de Figueiredo, Luiz Henrique *see* **Mederos, Boris et al., 2005i:65019**
Goshtasby, A. Ardeshir A weighted linear method for approximation of irregularly spaced data. (English summary) (*see* **2005i:65007**)
Gubanov, V. S. ★ Обобщенный метод наименьших квадратов. (Russian. Russian summary) [The generalized method of least squares] **2005e:65010**
Guibas, Leonidas J. *see* **Mitra, Niloy J. et al., 2005k:65023**
Hamann, Bernd *see* **Wiley, David F. et al., 2005e:65014**
Hanna, Yousry S. (*with* Ibrahim, Makram; Samwel, S. W.) On using Chebyshev polynomials for fitting SLR data of artificial satellites. (English summary)
Ibrahim, Makram *see* **Hanna, Yousry S. et al.**
Iske, Armin Radial basis functions: basics, advanced topics and meshfree methods for transport problems. (English summary) **2005e:65011**
Jordan, Benjamin W. *see* **Wiley, David F. et al., 2005e:65014**
Joy, Kenneth I. *see* **Wiley, David F. et al., 2005e:65014**
Jukić, Dragan (*with* Kralik, Gordana; Scitovski, Rudolf) Least-squares fitting Gompertz curve. (English summary) **2005e:65012**
Kim, Ik-Sung An algorithm for fitting of spheres. (English summary) **2005e:65013**
Kouibia, Abdelouahed (*with* Pasadas, Miguel) Construction of surfaces by discrete variational splines with parallelism conditions. (English summary) **2005a:65011**
Kralik, Gordana *see* **Jukić, Dragan et al., 2005e:65012**
Lai, Ming-Jun (*with* Wenston, Paul) L_1 spline methods for scattered data interpolation and approximation. (English summary) **2005d:65012**
Lesort, C. *see* **Chernov, Nikolai I. et al., 2005b:65012**
Max, Nelson L. *see* **Wiley, David F. et al., 2005e:65014**
Mederos, Boris (*with* Velho, Luiz; de Figueiredo, Luiz Henrique) Robust smoothing of noisy point clouds. (English summary) **2005i:65019**
Mitra, Niloy J. (*with* Nguyen, An; Guibas, Leonidas J.) Estimating surface normals in noisy point cloud data. (English summary) **2005k:65023**
Nguyen, An *see* **Mitra, Niloy J. et al., 2005k:65023**
Nievergelt, Yves Perturbation analyses for conics and quadrics fitted to data. (English summary) (*see* **2005i:65007**)
Osher, Stanley *see* **Zhao, Hong-Kai, (2005a:94002)**
Pasadas, Miguel *see* **Kouibia, Abdelouahed, 2005a:65011**
Pelosi, Francesca *see* **Costantini, Paolo, 2005a:65010**
Potts, Daniel Approximation of scattered data by trigonometric polynomials on the torus and the 2-sphere. (English summary) **2005f:65017**
Rozhenko, Alexander I. On fitting inaccurate data with splines. (English summary) **2005j:65010**
Sales-Mayor, F. (*with* Wyatt, R. E.) A two-stage filter for smoothing multivariate noisy data on unstructured grids. (English summary) **2005c:65008**
Samwel, S. W. *see* **Hanna, Yousry S. et al.**
Scheuermann, Gerik *see* **Wiley, David F. et al., 2005e:65014**
Scitovski, Rudolf *see* **Jukić, Dragan et al., 2005e:65012**
Simányi, Nándor *see* **Chernov, Nikolai I. et al., 2005b:65012**
Späth, Helmuth Total least squares fitting with quadrics. (English summary) **2005d:65013**
— Fitting affine and orthogonal transformations between two sets of points. (English summary) **2005f:65018**
Spinella, Salvatore *see* **Anile, Angelo Marcello, 2005d:65011**
de Tisi, F. (*with* Feraudi, F.) Surface least squares approximations to scattered data by means of multiquadric functions: a local approach. (English summary)
Velho, Luiz *see* **Mederos, Boris et al., 2005i:65019**
Wang, Guo Zhao *see* **Yu, Ming Cai et al., 2005e:65015**
Wenston, Paul *see* **Lai, Ming-Jun, 2005d:65012**
Wiley, David F. (*with* Bertram, Martin; Jordan, Benjamin W.; Hamann, Bernd; Joy, Kenneth I.; Max, Nelson L.; Scheuermann, Gerik) Hierarchical spline approximations. (English summary) **2005e:65014**
Wu, Zongmin *see* **Zhang, Weixiang, 2005d:65014**
Wyatt, R. E. *see* **Sales-Mayor, F., 2005c:65008**
Yang, Xun Nian *see* **Yu, Ming Cai et al., 2005e:65015**
Yu, Ming Cai (*with* Yang, Xun Nian; Wang, Guo Zhao) Curve fitting by optimal biarc splines. (Chinese. English and Chinese summaries) **2005e:65015**
Zeilfelder, Frank *see* **Davydov, Oleg, 2005m:65020**
Zha, Hong-yuan *see* **Zhang, Zhen Yue, 2005k:65024**
Zhang, Weixiang (*with* Wu, Zongmin) Some shape-preserving quasi-interpolants to non-uniformly distributed data by MQ-B-splines. (English summary) **2005d:65014**
Zhang, Zhen Yue (*with* Zha, Hong-yuan) Principal manifolds and nonlinear dimensionality reduction via tangent space alignment. (English summary)
— (*with* Zha, Hong-yuan) Principal manifolds and nonlinear dimensionality reduction via tangent space alignment. (English summary) **2005k:65024**
Zhao, Hong-Kai (*with* Osher, Stanley) Visualization, analysis and shape reconstruction of sparse data. (English summary) (*see* **2005a:94002**)

Items with secondary classifications in 65D10

Bertram, Martin Biorthogonal loop-subdivision wavelets. (English summary) **2005h:42066**
Chaniotis, A. K. (*with* Poulikakos, Dimos) High order interpolation and differentiation using B-splines. (English summary) **2005c:41014**
Coppersmith, Don (*with* Sudan, Madhu) Reconstructing curves in three (and higher) dimensional space from noisy data. (English summary) **2005k:94004**
Costantini, Paolo (*with* Manni, Carla) Some applications of new spline spaces in computer aided geometric design. (English summary) **2005m:65023**
Daniel, Marc *see* **Saux, Eric, 2005c:65013**
Davydov, Oleg (*with* Morandi, Rossana; Sestini, A.) Scattered data approximation with a hybrid scheme. (English summary) **2005c:41031**
Dong, Chen Shi *see* **Lin, Hongwei et al., 2005e:65018**
Habib, Zulfiqar (*with* Sakai, Manabu) Spiral transition curves and their applications. (English summary) **2005j:65014**
He, Bing-sheng (*with* Wang, Yu-mei) Smoothing by convex quadratic programming. (English summary) **2005j:90056**
Hoffmann, Miklós Numerical control of Kohonen neural network for scattered data approximation. (English summary) **2005m:68217**
Huang, Hung-Tsai (*with* Li, Zi-Cai) Blending curves for landing problems by numerical differential equations. III. Separation techniques. (English summary) **2005j:65016**
Iske, Armin On the approximation order and numerical stability of local Lagrange interpolation by polyharmonic splines. (English summary) **2005c:41004**
— ★ Multiresolution methods in scattered data modelling. **2005f:94023**
— (*with* Levesley, Jeremy) Multilevel scattered data approximation by adaptive domain decomposition. (English summary) **2005k:41099**
Jackiewicz, Z. Determination of optimal parameters for the Chebyshev-Gegenbauer reconstruction method. (English summary) **2005a:42001**
Kouibia, Abdelouahed (*with* Pasadas, Miguel) Approximation of discontinuous curves and surfaces by discrete splines with tangent conditions. (English summary) **2005k:41022**
Lee, Heow Pueh *see* **Sun, Yan Feng et al., 2005e:62097**
Levesley, Jeremy *see* **Iske, Armin, 2005k:41099**
Li, Zi-Cai *see* **Huang, Hung-Tsai, 2005j:65016**
Liang, Yan Chun *see* **Sun, Yan Feng et al., 2005e:62097**
Lin, Hongwei (*with* Wang, Guo Jin[1]; Dong, Chen Shi) Constructing iterative non-uniform B-spline curve and surface to fit data points. (English summary) **2005e:65018**
Lin, Wu Zhong[2] *see* **Sun, Yan Feng et al., 2005e:62097**
Manni, Carla *see* **Costantini, Paolo, 2005m:65023**
Martínez-Morales, José L. Geometric data fitting. **2005k:41101**
Morandi, Rossana *see* **Davydov, Oleg et al., 2005c:41031**
Pang, Jong-Shi (*with* Yu, Thomas P.-Y.) Continuous M-estimators and their interpolation by polynomials. (English summary) **2005k:65020**
Pasadas, Miguel *see* **Kouibia, Abdelouahed, 2005k:41022**
Poulikakos, Dimos *see* **Chaniotis, A. K., 2005c:41014**
Renka, Robert J. Algorithm 833: CSRFPACK —interpolation of scattered data with a C^1 convexity-preserving surface. (English summary) **2005b:65015**
Sakai, Manabu *see* **Habib, Zulfiqar, 2005j:65014**
Saux, Eric (*with* Daniel, Marc) An improved Hoschek intrinsic parametrization. (English summary) **2005c:65013**
Sestini, A. *see* **Davydov, Oleg et al., 2005c:41031**
Sudan, Madhu *see* **Coppersmith, Don, 2005k:94004**
Sun, Yan Feng (*with* Liang, Yan Chun; Wu, Chunguo; Yang, Xiao Wei[1]; Lee, Heow Pueh; Lin, Wu Zhong[2]) Estimate of error bounds in the improved support vector regression. (English summary) **2005e:62097**
Vlachkova, Krassimira Scattered data interpolation in $\mathbb{R}^3$ by smooth curve networks. (English summary) **2005e:41084**
Wang, Delun (*with* Wang, Shufen) A unified approach to kinematic synthesis of mechanism by adaptive curve fitting. (English summary) **2005a:70006**
Wang, Guo Jin[1] *see* **Lin, Hongwei et al., 2005e:65018**
Wang, Jia Ye *see* **Zhang, Cai Ming, 2005k:65046**
Wang, Shufen *see* **Wang, Delun, 2005a:70006**
Wang, Yu-mei *see* **He, Bing-sheng, 2005j:90056**
Wendland, Holger Reconstructing multivariate functions from large data sets. (English summary) **2005f:41086**
Werther, Tobias Characterization of semi-Hilbert spaces with application in scattered data interpolation. (English summary) **2005e:41085**
Wu, Chunguo *see* **Sun, Yan Feng et al., 2005e:62097**
Yang, Xiao Wei[1] *see* **Sun, Yan Feng et al., 2005e:62097**
Yu, Thomas P.-Y. *see* **Pang, Jong-Shi, 2005k:65020**
Zhang, Cai Ming (*with* Wang, Jia Ye) Constructing of adjustable C^2 quartic Bézier interpolation curve. (Chinese. English and Chinese summaries) **2005k:65046**

65D15 Algorithms for functional approximation

Items with secondary classifications in 65D15

Awanou, Gerard (*with* Lai, Ming-Jun) Trivariate spline approximations of 3D Navier-Stokes equations. (English summary) **2005m:65015**
Bu, Jiajun *see* **Liang, Ronghua et al., (2005g:65008)**
Chen, Chun *see* **Liang, Ronghua et al., (2005g:65008)**
Cheng, Siu-Wing (*with* Dey, Tamal K.; Poon, Sheung-Hung) Hierarchy of surface models and irreducible triangulation. (English summary) (*see* **2005b:68004**)

Dey, Tamal K. *see* **Cheng, Siu-Wing et al.**, (2005b:68004)
Krejčí, Pavel (*with* Kuhnen, Klaus) Error estimates for the discrete inversion of hysteresis and creep operators. (English summary) **2005e:74048**
Kuhnen, Klaus *see* **Krejčí, Pavel**, 2005e:74048
Lai, Ming-Jun *see* **Awanou, Gerard**, 2005m:65015
Liang, Ronghua (*with* Chen, Chun; Pan, Zhigeng; Bu, Jiajun) Robust real-time face tracking and modeling from video. (English summary) (*see* **2005g:65008**)
Pan, Zhigeng *see* **Liang, Ronghua et al.**, (2005g:65008)
Poon, Sheung-Hung *see* **Cheng, Siu-Wing et al.**, (2005b:68004)

65D17 Computer aided design (modeling of curves and surfaces) [see also 68U07]

Abdel-Malek, Karim *see* **Yang, Jingzhou**, 2005h:65024
Ahn, Min-Ho (*with* Kim, Gwang Il) Characterization of Pythagorean curves and Pythagoreanization using a rational transform. (English summary) **2005g:65031**
Ahn, Young Joon (*with* Kim, Yeon soo; Shin, Youngsuk) Approximation of circular arcs and offset curves by Bézier curves of high degree. (English summary) **2005c:65009**
Albrecht, Gudrun An algorithm for parametric quadric patch construction. (English summary) **2005k:65025**
Ali Siddiqui, Mohammed *see* **Sarfraz, Muhammad**, 2005i:65023
Alkalai, Nurit (*with* Dyn, Nira) Optimising 3D triangulations: improving the initial triangulation for the butterfly subdivision scheme. (English summary) (*see* **2005j:68003**)
Arcos, Gabriel (*with* Montilla, Guillermo; Ortega, José R.; Paluszny, Marco) 3D lemniscates with four non-coplanar foci. (English summary) (*see* **2005i:65007**)
Aries, Franck (*with* Mourrain, Bernard; Técourt, Jean-Pierre) Quadratically parameterized surfaces: algorithms and applications. (English summary) (*see* **2005i:65007**)
Arnal, A. (*with* Lluch, A.; Monterde, J.) Triangular Bézier surfaces of minimal area. (English summary) (*see* **2005i:00014**)
Arondekar, Pranjali *see* **Ganguly, Ashok**
Aumann, Günter Degree elevation and developable Bézier surfaces. (English summary) **2005d:65015**
Ayala, Dolors *see* **Vigo, M. et al.**, 2005k:65044
Balah, M. *see* **Sarfraz, Muhammad**, (2005i:00014)
Barthe, Loïc (*with* Kobbelt, Leif) Subdivision scheme tuning around extraordinary vertices. (English summary) **2005b:65013**
— (*with* Gérot, Cédric; Sabin, Malcolm A.; Kobbelt, Leif) Simple computation of the eigencomponents of a subdivision matrix in the Fourier domain. (English summary) (*see* **2005j:68003**)
— *see also* **Gérot, Cédric et al.**, (2005j:68003)
Beall, Mark W. *see* **Shephard, Mark S. et al.**
Beatson, R. K. (*with* Cherrie, J. B.; McLennan, T. J.; Mitchell, T. J.; Carr, J. C.; Fright, W. R.; McCallum, B. C.) Surface reconstruction via smoothest restricted range approximation. (English summary) (*see* **2005i:65007**)
Beets, K. (*with* Claes, J.; Van Reeth, Frank) A combined quadrilateral-hexagonal subdivision scheme. (English summary) (*see* **2005i:65007**)
Bertram, Martin (*with* Konkle, Shirley E.; Hagen, Hans; Hamann, Bernd; Joy, Kenneth I.) Terrain modeling using Voronoi hierarchies. (English summary) (*see* **2005a:65002**)
Blandford, Daniel K. (*with* Blelloch, Guy E.; Cardoze, David E.; Kadow, Clemens) Compact representations of simplicial meshes in two and three dimensions. (English summary) **2005k:65026**
Blelloch, Guy E. *see* **Blandford, Daniel K. et al.**, 2005k:65026
Bloor, M. I. G. (*with* Wilson, Michael John) An analytic pseudo-spectral method to generate 3- and 5-sided patches. (English summary) (*see* **2005i:65007**)
— (*with* Wilson, Michael John) Parameterising the shapes adopted by fluid membranes and vesicles. (English summary) **2005j:65011**
— (*with* Wilson, Michael John) An analytic pseudo-spectral method to generate a regular 4-sided PDE surface patch. (English summary) **2005m:65021**
Bonneau, Georges-Pierre *see* **Hahmann, Stefanie et al.**, 2005k:65035
Bowyer, Adrian *see* **Shou, Huahao et al.**, 2005m:65031
Bremner, David (*with* Hurtado, Ferran; Ramaswami, Suneeta; Sacristán, Vera) Small strictly convex quadrilateral meshes of point sets. (English summary) **2005d:65016**
Brujic, D. (*with* Lambourne, J. G.; Ristic, Mihailo) An efficient algorithm for solving the point projection problem. (English summary) (*see* **2005i:65007**)
Brunnett, Guido *see* **Vanco, M.**, (2005f:65004)
Cardoze, David E. *see* **Blandford, Daniel K. et al.**, 2005k:65026
Carnicer, J. M. (*with* Mainar, E.; Peña, Juan Manuel) Representing circles with five control points. (English summary) **2005a:65012**
Carr, J. C. *see* **Beatson, R. K. et al.**, (2005i:65007)
Cermak, M. (*with* Skala, V.) Edge spinning algorithm for implicit surfaces. (English summary)
Chalmoviansk\u00fd, P. (*with* Jüttler, Bert) Fairness criteria for algebraic curves. (English summary) **2005k:65027**
Chan, Bin *see* **Wang, Wen Ping[1] et al.**, (2005f:65004)
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— (*with* Liang, Xue Zhang; Li, Qiang) G^1 continuity conditions of adjacent NURBS surfaces. (English summary) **2005m:65022**
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Ulmet, Dan-Eugen Reflection curves—new computation and rendering techniques. (English summary) 2005f:65020
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Urošević, Dragan *see* **Mijajlović, Žarko**, (2005d:41003)
Vanco, M. (*with* Brunnett, Guido) Direct segmentation of algebraic models for reverse engineering. (English summary) (*see* 2005f:65004)
Vanderstraeten, Denis *see* **Volodine, Tim et al.**, (2005i:65007)
Van Reeth, Frank *see* **Beets, K. et al.**, (2005i:65007)
Vidūnas, Raimundas Geometrically continuous octahedron. (English summary) 2005a:65016
Vigo, M. (*with* Pla, N.; Ayala, Dolors) Two triangulation methods based on edge refinement. (English summary) 2005k:65044
Voiculescu, Irina *see* **Shou, Huahao et al.**, 2005m:65031
Volodine, Tim (*with* Roose, Dirk; Vanderstraeten, Denis) Efficient triangulation of point clouds using floater parameterization. (English summary) (*see* 2005i:65007)
Walker, Marshall *see* **Lin, Achan**, 2005k:65040 *and* 2005m:65027
Wallner, Johannes *see* **Hu, Shi-Min**, 2005j:65015
Walton, D. J. (*with* Meek, D. S.) A generalisation of the Pythagorean hodograph quintic spiral. (English summary) 2005e:65019
— *see also* **Meek, D. S.**, 2005d:65024
Wang, Desheng *see* **Du, Qiang**, 2005k:65031
Wang, Guo Jin[1] (*with* Jiang, Su Rong) The algorithms for evaluating two new types of generalized Ball curves/surfaces and their applications. (Chinese. English and Chinese summaries) 2005g:65033
— *see also* **Cheng, Min**, 2005d:65017; **Lin, Hongwei et al.**, 2005e:65018; **Shou, Huahao et al.**, 2005m:65031 *and* **Zhang, Ren Jiang**, 2005m:65032
Wang, Guo Zhao (*with* Yang, Qin Min) Planar cubic hybrid hyperbolic polynomial curve and its shape classification. (English summary) 2005b:65016
— *see also* **Wei, Yong Wei et al.**, 2005d:65026; **Dong, Chen Shi et al.**, 2005i:65021; **Jin, Yi Ming**, 2005k:65037 *and* **Ding, Min**, 2005m:65024
Wang, Ji Gui (*with* Wang, Ren Hong) Joining two Bézier surfaces with transition band. (Chinese. English and Chinese summaries)
Wang, Jia Ye *see* **Zhang, Cai Ming**, 2005k:65046 *and* **Wang, Wen Ping**[1] **et al.**, (2005f:65004)
Wang, Ren Hong *see* **Wu, Ting Bin** *and* **Wang, Ji Gui**
Wang, Shu Ning *see* **Wen, Cheng Tao et al.**
Wang, Tianjun *see* **Shi, Xi Quan**[2] **et al.**, 2005g:65032
Wang, Wen Ping[1] (*with* Choi, Yi-King; Chan, Bin; Kim, Myung Soo; Wang, Jia Ye) Efficient collision detection for moving ellipsoids using separating planes. (English summary) (*see* 2005f:65004)
Wang, Xiao Ping[3] (*with* Zhou, Rurong; Wang, Zhi Guo; Zhang, Liyan) Constructing G^1 interpolation curves on surfaces with Coons surface. (English and Chinese summaries)
— *see also* **Wang, Zhi Guo et al.**
Wang, Zhi Guo (*with* Zhou, Laishui; Wang, Xiao Ping[3]) Weight-based shape modification of NURBS curves by constrained optimization. (English and Chinese summaries)
— *see also* **Wang, Xiao Ping**[3] **et al.**
Warren, Joe *see* **Schaefer, Scott**, (2005i:65007)
Wei, Yong Wei (*with* Wang, Guo Zhao; Yang, Qin Min) Degree elevation of interval Bézier curves and surfaces. (Chinese. English and Chinese summaries) 2005d:65026
Wen, Cheng Tao (*with* Wang, Shu Ning; Sun, Xu Sheng; Li, Feng; Zhang, Hao) Compact representation for 3-D continuous piecewise linear functions. (Chinese. English and Chinese summaries)
Werschulz, Arthur G. (*with* Woźniakowski, Henryk) Surface approximation is sometimes easier than surface integration. (English summary) 2005c:65014
Wilson, Michael John *see* **Bloor, M. I. G.**, 2005j:65011; 2005m:65021 *and* (2005i:65007)
Winkler, Joab R. Numerical and algebraic properties of Bernstein basis resultant matrices. (English summary) 2005k:65045
Witzgall, Christoph *see* **Gilsinn, David E. et al.**, (2005i:65007)
Woźniakowski, Henryk *see* **Werschulz, Arthur G.**, 2005c:65014
Wu, Hong Yi *see* **Jiang, Ping et al.**, 2005h:65018
Wu, Peiru *see* **Shi, Xi Quan**[2] **et al.**, 2005g:65032
Wu, Tieru *see* **Feng, Guochen et al.**, 2005c:65010
Wu, Ting Bin (*with* Wang, Ren Hong) A method for choosing interpolation nodes of spline approximation of complicated surfaces. (Chinese. English summary)
Wu, Zongmin (*with* Liu, Jian Ping[2]) Meshless method for numerical solution of PDE using Hermitian interpolation with radial basis. (English summary) 2005e:65020
Wulamu, Aziguli (*with* Goetting, Marc; Zeckzer, Dirk) Approximation of NURBS curves and surfaces using adaptive equidistant parameterizations. (English summary)
Yang, Jingzhou (*with* Abdel-Malek, Karim) Approximate swept volumes of NURBS surfaces or solids. (English summary) 2005h:65024
Yang, Qin Min *see* **Wang, Guo Zhao**, 2005b:65016 *and* **Wei, Yong Wei et al.**, 2005d:65026
Yang, Xun Nian High accuracy approximation of helices by quintic curves. (English summary) 2005d:65027
— *see also* **Dong, Chen Shi et al.**, 2005i:65021 *and* **Gan, Jia Fu et al.**, 2005k:65033
Ye, Zheng Lin *see* **Meng, Ya Qin et al.**
Yim, Jin-Whan *see* **Kim, Hoisub et al.**
Yu, Kai[2] *see* **Feng, Guochen et al.**, 2005c:65010
Zayer, Rhaleb (*with* Rössl, Christian; Seidel, Hans-Peter) Variations on angle based flattening. (English summary) (*see* 2005j:68003)
Zeckzer, Dirk *see* **Wulamu, Aziguli et al.**
Zhang, Cai Ming (*with* Cheng, Fuhua) Shape-preserving parametric curve interpolation with bounding polygon constraint. (English summary) (*see* 2005i:65007)
— (*with* Wang, Jia Ye) Constructing of adjustable C^2 quartic Bézier interpolation curve. (Chinese. English and Chinese summaries) 2005k:65046
Zhang, Fan[3] (*with* Kang, Bao Sheng; Shi, Mao) Representation of special curves by normalized B-basis. (Chinese. English and Chinese summaries)
Zhang, Hao *see* **Wen, Cheng Tao et al.**
Zhang, Jack G. *see* **Fasshauer, Gregory E.**, (2005i:65007)
Zhang, Juan *see* **Qiu, Cao Yong et al.**
Zhang, Liyan *see* **Wang, Xiao Ping**[3] **et al.**
Zhang, Ren Jiang (*with* Wang, Guo Jin[1]) The proof of Hermann's conjecture. (English summary)
— (*with* Wang, Guo Jin[1]) Error estimates for approximating a parametric surface by interpolated plane triangular patches. (Chinese. English summary) 2005m:65032
Zhang, Shugong *see* **Feng, Guochen et al.**, 2005c:65010
Zhao, Hong Xing *see* **Meng, Ya Qin et al.**
Zhao, Yan (*with* Shi, Xi Quan[2]) G^2 continuity conditions of biquintic B-spline surfaces. (Chinese. English summary) 2005e:65021
— *see also* **Gan, Jia Fu et al.**, 2005k:65033
Zheng, Jian Min[1] Minimizing the maximal ratio of weights of a rational Bézier curve. (English summary) 2005k:65047
Zhou, Laishui *see* **Wang, Zhi Guo et al.**
Zhou, Rurong *see* **Wang, Xiao Ping**[3] **et al.**
Zhou, Xinlong Subdivision schemes with nonnegative masks. (English summary) 2005m:65033
Zhou, Yun-shi *see* **Feng, Guochen et al.**, 2005c:65010

Items with secondary classifications in 65D17

Ahn, Hee-Kap (*with* Cheng, Siu-Wing; Cheong, Otfried; Snoeyink, Jack) The reflex-free hull. (English summary) 2005h:52013

Ahn, Young Joon (*with* Lee, Byung-Gook; Park, Yunbeom; Yoo, Jaechil) Constrained polynomial degree reduction in the L_2-norm equals best weighted Euclidean approximation of Bézier coefficients. (English summary) **2005a:41002**

Ali, J. M. *see* **Yeoh, W. K.**

Alliez, Pierre (*with* Gotsman, Craig) Recent advances in compression of 3D meshes. (English summary) (*see* **2005j:68003**)

Andújar, Carlos (*with* Fairén, Marta; Brunet, Pere; Cebollada, Víctor) Simplification of topologically complex assemblies. (English summary) (*see* **2005j:68003**)

Attali, Dominique (*with* Boissonnat, Jean-Daniel) A linear bound on the complexity of the Delaunay triangulation of points on polyhedral surfaces. (English summary) **2005b:52041**

Ayache, Nicholas *see* **Delingette, Hervé**, (**2005e:92001**)

Azariadis, P. N. (*with* Sapidis, N. S.) Planar development of free-form surfaces: quality evaluation and visual inspection. (English summary) **2005h:65025**

Beaugonin, Muriel *see* **Haug, Eberhard et al.**, (**2005e:92001**)

Belyaev, A. G. *see* **Ohtake, Yutaka et al.**, (**2005j:68003**)

Bercovier, M. *see* **Goldenthal, R.**, **2005h:41012**

Bereg, Sergei Transforming pseudo-triangulations. (English summary) (*see* **2005c:00014**)

— Enumerating pseudo-triangulations in the plane. (English summary) **2005j:68108**

Bertalmío, Marcelo (*with* Mémoli, Facundo; Cheng, Li-Tien; Sapiro, Guillermo R.; Osher, Stanley) Variational problems and partial differential equations on implicit surfaces: bye bye triangulated surfaces? (English summary) (*see* **2005a:94002**)

Binev, Petăr G. (*with* Dahmen, Wolfgang; DeVore, Ronald; Dyn, Nira) Adaptive approximation of curves. (English summary) **2005i:41026**

Boissonnat, Jean-Daniel (*with* Cohen-Steiner, David; Vegter, Gert) Isotopic implicit surface meshing. (English summary) **2005j:68109**

— *see also* **Attali, Dominique**, **2005b:52041**

Brunet, Pere *see* **Andújar, Carlos et al.**, (**2005j:68003**)

Busé, Laurent (*with* D'Andrea, Carlos) Inversion of parameterized hypersurfaces by means of subresultants. (English summary) (*see* **2005i:68002**)

Carnicer, J. M. (*with* Mainar, E.; Peña, Juan Manuel) Critical length for design purposes and extended Chebyshev spaces. (English summary) **2005c:41007**

Cebollada, Víctor *see* **Andújar, Carlos et al.**, (**2005j:68003**)

Chen, Dongren (*with* Wang, Guo Jin[1]) Developable algebraic surfaces. (English summary) **2005b:53005**

Chen, Fa-Lai *see* **Xu, Chen-Dong**

Chen, Long (*with* Xu, Jin Chao) Optimal Delaunay triangulations. (English summary) **2005c:41042**

Cheng, Li-Tien *see* **Bertalmío, Marcelo et al.**, (**2005a:94002**)

Cheng, Siu-Wing *see* **Ahn, Hee-Kap et al.**, **2005h:52013**

Cheong, Otfried *see* **Ahn, Hee-Kap et al.**, **2005h:52013**

Chiang, Yi-Jen (*with* Lenz, Tobias; Lu, Xiang; Rote, Günter) Simple and optimal output-sensitive construction of contour trees using monotone paths. (English summary) **2005h:52016**

Chionh, Eng-Wee *see* **Zheng, Jian Min[1] et al.**, **2005c:14082**

Choi, Hyung-Yun *see* **Haug, Eberhard et al.**, (**2005e:92001**)

Clarenz, Ulrich (*with* Diewald, U.; Dziuk, Gerhard; Rumpf, Martin; Rusu, R.) A finite element method for surface restoration with smooth boundary conditions. (English summary) **2005a:65017**

Cohen-Steiner, David *see* **Boissonnat, Jean-Daniel et al.**, **2005j:68109**

Conti, Costanza (*with* Morandi, Rossana) Re-parameterisation technique in algebraic numerical grid generation via subdivision schemes. (English summary) **2005j:65160**

Corless, Robert M. (*with* González-Vega, Laureano; Necula, Ioana; Shakoori, Azar) Topology determination of implicitly defined real algebraic plane curves. (English summary) **2005h:65026**

Costantini, Paolo (*with* Sampoli, Maria Lucia) A general frame for the construction of constrained curves. (English summary) **2005m:41036**

Cox, David A. Curves, surfaces, and syzygies. (English summary) **2005g:14113**

— (*with* Krasauskas, Rimvydas; Mustaţă, Mircea) Universal rational parametrizations and toric varieties. (English summary) **2005c:14066**

— *see also* **Zheng, Jian Min[1] et al.**, **2005c:14082**

Dahmen, Wolfgang *see* **Binev, Petăr G. et al.**, **2005i:41026**

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De Floriani, Leila *see* **Sokolovsky, Neta et al.**, (**2005j:68003**)

Delingette, Hervé (*with* Ayache, Nicholas) Soft tissue modeling for surgery simulation. (*see* **2005e:92001**)

DeVore, Ronald *see* **Binev, Petăr G. et al.**, **2005i:41026**

Dey, Tamal K. (*with* Zhao, Wulue) Approximating the medial axis from the Voronoi diagram with a convergence guarantee. (English summary) **2005d:68135**

Diewald, U. *see* **Clarenz, Ulrich et al.**, **2005a:65017**

(Dokken, Tor) *see* **Computational methods for algebraic spline surfaces**, **2005j:65001**

Dong, Jin Xiang *see* **Wang, Hua**, **2005k:65092**

Duan, Qi (*with* Wang, Liqiu; Twizell, E. H.) A new C^2 rational interpolation based on function values and constrained control of the interpolant curves. (English summary) **2005h:41026**

Dyn, Nira *see* **Binev, Petăr G. et al.**, **2005i:41026**

Dziuk, Gerhard *see* **Clarenz, Ulrich et al.**, **2005a:65017**

Emiris, Ioannis Z. (*with* Kotsireas, Ilias S.) Implicit polynomial support optimized for sparseness. (English summary) (*see* **2005i:00014**)

Fairén, Marta *see* **Andújar, Carlos et al.**, (**2005j:68003**)

Falcidieno, Bianca *see* **Mortara, Michela et al.**, **2005a:68214**

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Frank-Kamenetskiĭ, M. M. *see* **Shikin, E. V.**, **2005h:00007**

Goldenthal, R. (*with* Bercovier, M.) Spline curve approximation and design by optimal control over the knots. (English summary) **2005h:41012**

González-Vega, Laureano *see* **Corless, Robert M. et al.**, **2005h:65026**

Gotsman, Craig *see* **Alliez, Pierre**, (**2005j:68003**)

Grandine, Thomas A. (*with* Hogan, Thomas A.) A parametric quartic spline interpolant to position, tangent and curvature. (English summary) **2005i:41010**

Gudmundsson, Joachim (*with* Haverkort, Herman J.; van Kreveld, Marc) Constrained higher order Delaunay triangulations. (English summary) **2005j:68110**

Han, Bin[2] (*with* Overton, Michael L.; Yu, Thomas P.-Y.) Design of Hermite subdivision schemes aided by spectral radius optimization. (English summary) **2005d:42042**

Han, Xu-li Cubic trigonometric polynomial curves with a shape parameter. (English summary) **2005g:42002**

Haškovec, Jan (*with* Šolín, Pavel) On a novel technique for parallel unstructured mesh generation in 3D. (English summary) (*see* **2005j:65003**)

Haug, Eberhard (*with* Choi, Hyung-Yun; Robin, Stéphane; Beaugonin, Muriel) Human models for crash and impact simulation. (*see* **2005e:92001**)

Haverkort, Herman J. *see* **Gudmundsson, Joachim et al.**, **2005j:68110**

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Hoppe, Hugues (*with* Praun, Emil) Shape compression using spherical geometry images. (English summary) (*see* **2005j:68003**)

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Jetter, Kurt (*with* Zimmermann, Georg) Polynomial reproduction in subdivision. (English summary) **2005j:41007**

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Kotsireas, Ilias S. *see* **Emiris, Ioannis Z.**, (**2005i:00014**)

Kouibia, Abdelouahed (*with* Pasadas, Miguel) Approximation of discontinuous curves and surfaces by discrete splines with tangent conditions. (English summary) **2005k:41022**

— (*with* Pasadas, Miguel) Approximation of surfaces by fairness bicubic splines. (English summary) **2005f:41028**

— (*with* Pasadas, Miguel) Construction of surfaces by discrete variational splines with parallelism conditions. (English summary) **2005a:65011**

Kozera, Ryszard Asymptotics for length and trajectory from cumulative chord piecewise-quartics. (English summary) **2005e:41006**

Krasauskas, Rimvydas *see* **Cox, David A. et al.**, **2005c:14066**

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Lai, Ming-Jun (*with* Wenston, Paul) L_1 spline methods for scattered data interpolation and approximation. (English summary) **2005d:65012**

Lamberti, C. *see* **Sarti, Alessandro et al.**, (**2005a:92002**)

Lee, Byung-Gook *see* **Ahn, Young Joon et al.**, **2005a:41002**

Lenz, Tobias *see* **Chiang, Yi-Jen et al.**, **2005h:52016**

Lim, Ji-Young ★ Discrete scale-space formulation and multiscale edge extraction toward higher dimensions. (English, German and Korean summaries) **2005k:68214**

Lu, Xiang *see* **Chiang, Yi-Jen et al.**, **2005h:52016**

Luner, Petr (*with* Flusser, Jan) Fast evaluation of thin-plate splines on fine square grids. (English summary) **2005m:65017**

Magillo, Paola *see* **Sokolovsky, Neta et al.**, (**2005j:68003**)

Mainar, E. (*with* Peña, Juan Manuel) Quadratic-cycloidal curves. (English summary) **2005a:65008**

— *see also* **Carnicer, J. M. et al.**, **2005c:41007**

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Möller, H. Michael (*with* Sauer, Thomas) Multivariate refinable functions of high approximation order via quotient ideals of Laurent polynomials. (English summary) **2005c:41015**

Monterde, J. Bézier surfaces of minimal area: the Dirichlet approach. (English summary) **2005b:65019**

Morandi, Rossana *see* **Conti, Costanza**, **2005j:65160**

Mortara, Michela (*with* Patanè, Giuseppe; Spagnuolo, Michela; Falcidieno, Bianca; Rossignac, Jaroslaw R.) Blowing bubbles for multi-scale analysis and decomposition of triangle meshes. (English summary) **2005a:68214**

Mourrain, Bernard (*with* Técourt, Jean-Pierre; Teillaud, Monique) On the computation of an arrangement of quadrics in 3D. (English summary) **2005h:68158**

Mustaţă, Mircea *see* **Cox, David A. et al.**, **2005c:14066**

Necula, Ioana *see* **Corless, Robert M. et al.**, **2005h:65026**

Nürnberger, Günther (*with* Schumaker, Larry L.; Zeilfelder, Frank) Lagrange interpolation by C^1 cubic splines on triangulated quadrangulations. (English summary) **2005b:41004**

— (*with* Zeilfelder, Frank) Lagrange interpolation by bivariate C^1-splines with optimal approximation order. (English summary) **2005b:41005**

Ohtake, Yutaka (*with* Belyaev, A. G.; Seidel, Hans-Peter) Multi-scale and adaptive CS-RBFs for shape reconstruction from clouds of points. (English summary) (*see* **2005j:68003**)

Osher, Stanley *see* **Bertalmío, Marcelo et al.**, (**2005a:94002**)

Overton, Michael L. *see* **Han, Bin[2] et al.**, **2005d:42042**

Owen, John C. (*with* Power, Stephen C.) The nonsolvability by radicals of generic 3-connected planar graphs. (English summary) (*see* **2005d:68006**)

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Persson, Per-Olof (*with* Strang, Gilbert) A simple mesh generator in Matlab. (English summary) **2005i:65005**

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on Clough-Tocher triangle splits with applications to hole filling. (English summary) **2005j:65161**

Randriambelosoa, Germain E. Space curves approximation using G^1 ball-spline curves. **2005j:41008**

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Sarti, Alessandro (*with* Lamberti, C.; Malladi, Ravikanth) Level set models for analysis of 2D and 3D echocardiographic data. (English summary) (*see* **2005a:92002**)

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Shikin, E. V. (*with* Frank-Kamenetskiĭ, M. M.) ★ Кривые на плоскости и в пространстве. (Russian) [Curves on a plane and in space] **2005h:00007**

Snoeyink, Jack *see* **Ahn, Hee-Kap et al.**, **2005h:52013**

Sokolovsky, Neta (*with* Danovaro, Emanuele; De Floriani, Leila; Magillo, Paola) Encoding level-of-detail tetrahedral meshes. (English summary) (*see* **2005j:68003**)

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Szafnicki, Bolesław On the degree elevation of Bernstein polynomial representation. (English summary) **2005m:41013**

Szilvási-Nagy, M. (*with* Mátyási, Gy.) Analysis of STL files. (English summary) **2005a:68217**

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Terzopoulos, Demetri Deformable models: classic, topology-adaptive and generalized formulations. (English summary) (*see* **2005a:94002**)

Theisel, Holger (*with* Rössl, Christian; Seidel, Hans-Peter) Topology preserving thinning of vector fields on triangular meshes. (English summary) (*see* **2005j:68003**)

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Wallner, Johannes (*with* Pottmann, Helmut) Variational interpolation of subsets. (English summary) **2005a:41012**

Wang, Cao An *see* **Yang, Boting**, **2005d:52029**

Wang, Delun (*with* Wang, Shufen) A unified approach to kinematic synthesis of mechanism by adaptive curve fitting. (English summary) **2005a:70006**

Wang, Guo Jin[1] *see* **Chen, Dongren**, **2005b:53005**

Wang, Hua (*with* Dong, Jin Xiang) Using interval arithmetic and annealing genetic algorithm for surface intersection. (Chinese. English summary) **2005k:65092**

Wang, Hua-Wei (*with* Qin, Kai-Huai) Estimating subdivision depth of Catmull-Clark surfaces. (English summary)

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Xu, Chen-Dong (*with* Chen, Fa-Lai) Blending canal surfaces based on PH curves. (English summary)

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Yang, Boting (*with* Wang, Cao An) Minimal tetrahedralizations of a class of polyhedra. (English summary) **2005d:52029**

Yeoh, W. K. (*with* Ali, J. M.) A cubic Bézier like spiral as transition curve. (English summary)

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Yu, Thomas P.-Y. *see* **Han, Bin[2] et al.**, **2005d:42042**

Zafiris, Vasilis G. Quality metrics for hexahedral grids. (English summary) (*see* **2005i:65007**)

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Items listed otherwise than by author

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— (*with* Litke, Nathan; Rumpf, Martin) Axioms and variational problems in surface parameterization. (English summary) **2005i:65024**

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Fransens, Jan (*with* Bekaert, Philippe; Van Reeth, Frank) A hierarchical PCA-based piecewise planar surface reconstruction algorithm. (English summary) (*see* **2005i:65007**)

Gálvez, A. *see* **Puig-Pey, Jaime et al.**, (**2005c:00014**)

Gao, Jie[1] (*with* Gupta, Rakesh[2]) Efficient proximity search for 3-D cuboids. (English summary) (*see* **2005i:00014**)

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Items with secondary classifications in 65D18

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Ben Hamza, A. (*with* Krim, Hamid; Zerubia, Josiane) A nonlinear entropic variational model for image filtering. (English summary)

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Deng, Jiansong *see* **Feng, Yuyu et al., (2005c:68006)**

Dey, Tamal K. (*with* Zhao, Wulue) Approximating the medial axis from the Voronoi diagram with a convergence guarantee. (English summary) **2005d:68135**

Ding, Rena Dual space drawing methods of cylinders. (English summary) (*see* **2005g:65008**)

Dobkin, David *see* **Kazhdan, Michael et al., 2005b:68266**

Dong, Chen Shi (*with* Wang, Guo Zhao; Yang, Xun Nian) Convergence of hybrid polynomial approximation of rational Bézier curves. (Chinese. English and Chinese summaries) **2005i:65021**

Duchaineau, M. A. *see* **Linsen, Lars et al., 2005f:42091**

Dyn, Nira *see* **Sheffer, Alla et al., (2005f:65004)**

Dziuk, Gerhard *see* **Deckelnick, Klaus, 2005e:65016**

Efrat, Alon (*with* Indyk, Piotr; Ventkatasubramanian, Suresh) Pattern matching for sets of segments. (English summary) **2005d:52027**

Elber, Gershon *see* **Hahmann, Stefanie, (2005j:68003)**

Enright, Wayne H. *see* **Bradbury, Emma L., 2005b:65153**

Falcidieno, Bianca *see* **Pernot, J.-P. et al., (2005i:65007)**

Fanany, M. I. (*with* Kumazawa, I.) Multiple-view shape extraction from shading as local regression by analytic NN scheme. (English summary)

(Farin, Gerald) *see* **Geometric modelling, 2005f:65004** *and* **2005g:65010**

Faugeras, Olivier (*with* Gomes, Jose; Keriven, Renaud) Computational stereo: a variational method. (English summary) (*see* **2005a:94002**)

— *see also* **Hartley, Richard, 2005b:68251**

Fedkiw, Ronald Simulating natural phenomena. (English summary) (*see* **2005a:94002**)

Feixas, Miquel *see* **Rigau, Jaume et al., (2005i:00014)**

Fekete, Sándor P. (*with* Meijer, Henk) The one-round Voronoi game replayed. (English summary) **2005g:68171**

Feng, Guochen (*with* Wu, Tieru; Yu, Kai[2]; Zhang, Shugong; Zhou, Yun-shi) Blending several implicit algebraic surfaces with ruled surfaces. **2005c:65010**

Feng, Yuyu (*with* Chen, Fa-Lai; Deng, Jiansong; Chen, Chang Song[2]; Tang, Xing) Constructing piecewise algebraic blending surfaces. (English summary) (*see* **2005c:68006**)

(Förstner, Wolfgang) *see* **Heuel, Stephan, 2005e:62003**

Funkhouser, Thomas *see* **Kazhdan, Michael et al., 2005b:68266**

Gavrilov, Martin (*with* Indyk, Piotr; Motwani, Rajeev; Ventkatasubramanian, Suresh) Combinatorial and experimental methods for approximate point pattern matching. (English summary) **2005a:68207**

Gelli, Daniele (*with* Vitulano, Domenico) Exploiting light projection for shape from shading. (English summary)

Giannini, F. *see* **Pernot, J.-P. et al., (2005i:65007)**

(Goldman, Ronald N.) *see* **Geometric modelling, 2005f:65004** *and* **2005g:65010**

Gomes, Jose *see* **Faugeras, Olivier et al., (2005a:94002)**

González-Vega, Laureano (*with* Necula, Ioana; Pérez-Díaz, Sonia; Sendra, Juana; Sendra, J. Rafael) Algebraic methods in computer aided geometric design: theoretical and practical applications. (English summary) (*see* **2005c:68006**)

(Goodman, Jacob E.) *see* **Handbook: Discrete and computational geometry, 2005j:52001**

Gotsman, Craig (*with* Kobbelt, Leif) Editorial [Special issue on geometry processing].

— *see also* **Sheffer, Alla et al., (2005f:65004)**

Grosshans, Frank D. On the equations relating a three-dimensional object and its two-dimensional images. (English summary) **2005h:68154**

Gu, Xianfeng (*with* Wang, Yalin; Yau, Shing-Tung) Computing conformal invariants: period matrices. (English summary) **2005m:53019**

Guibas, Leonidas J. *see* **Mitra, Niloy J. et al., 2005k:65023**

Guillet, S. *see* **Pernot, J.-P. et al., (2005i:65007)**

Ha, Lihong *see* **Icking, Christian, (2005j:68008)**

Hagen, Hans *see* **Bertram, Martin et al., (2005a:65002)**

Hagiwara, Ichiro *see* **Cheng, Wen-Jie et al., 2005k:65029**

Hahmann, Stefanie (*with* Elber, Gershon) Constrained multiresolution geometric modelling. (English summary) (*see* **2005j:68003**)

— *see also* **Geometric modelling, 2005f:65004** *and* **2005g:65010**

Hamann, Bernd *see* **Linsen, Lars et al., 2005f:42091** *and* **Bertram, Martin et al., (2005a:65002)**

Hartley, Richard (*with* Zisserman, Andrew) ★ Multiple view geometry in computer vision. **2005b:68251**

Heuel, Stephan ★ Uncertain projective geometry. **2005e:62003**

Hida, Yozo *see* **Demmel, James**

Hoffmann, Miklós (*with* Juhász, Imre) On the paths of B-spline curves obtained by the modification of a knot. (English summary) **2005d:41012**

Hong, Don (*with* Schumaker, Larry L.) Surface compression using a space of C^1 cubic splines with a hierarchical basis. (English summary) **2005f:41026**

Horwitz, Alan L. Ellipses of maximal area and of minimal eccentricity inscribed in a convex quadrilateral. (English summary) **2005k:52007**

Hunziker, Patrick *see* **Arigovindan, Muthuvel et al.**

Iacono, John Expected asymptotically optimal planar point location. (English summary)

Icking, Christian (*with* Ha, Lihong) A tight bound for the complexity of Voroni diagrams under polyhedral convex distance functions in 3D. (English summary) (*see* **2005j:68008**)

Indyk, Piotr *see* **Gavrilov, Martin et al., 2005a:68207** *and* **Efrat, Alon et al., 2005d:52027**

Israeli, Moshe *see* **Keller, Yosi et al., 2005h:94007**

Jalkio, Jeffrey A. *see* **Ames, Aaron D. et al., (2005f:00014)**

Jones, Christopher Bernard *see* **Zhou, Sheng**

Joy, Kenneth I. *see* **Linsen, Lars et al., 2005f:42091** *and* **Bertram, Martin et al., (2005a:65002)**

Juhász, Imre *see* **Hoffmann, Miklós, 2005d:41012**

Kaklis, Panagiotis (*with* Dellas, Spyridon) On the shape effect of a control point: experimenting with *NURBS* surfaces. (English summary) **2005m:65025**

Kazhdan, Michael (*with* Chazelle, Bernard; Dobkin, David; Funkhouser, Thomas; Rusinkiewicz, Szymon) A reflective symmetry descriptor for 3D models. (English summary) **2005b:68266**

Keller, Yosi (*with* Averbuch, Amir Z.; Israeli, Moshe) Pseudopolar-based estimation of large translations, rotations, and scalings in images. (English summary) **2005h:94007**

Keriven, Renaud *see* **Faugeras, Olivier et al., (2005a:94002)**

Kim, Hoisub (*with* Oh, Seungtaik; Yim, Jin-Whan) Smooth surface extension with curvature bound. (English summary)

Kim, Ik-Sung An algorithm for fitting of spheres. (English summary) **2005e:65013**

Kim, Myung Soo *see* **Wang, Wen Ping[1] et al., (2005f:65004)**

Klein, Rolf Foreword [Special issue on the 19th European Workshop on Computational Geometry—EuroCG 03].

Klette, Reinhard *see* **Noakes, J. Lyle et al., (2005j:68006)**

Kobbelt, Leif *see* **Barthe, Loïc, 2005b:65013** *and* **Gotsman, Craig**

Kohout, Josef (*with* Kolingerová, Ivana; Žára, Jiří) Parallel Delaunay triangulation in E^2 and E^3 for computers with shared memory. (English summary)

Kolingerová, Ivana *see* **Kohout, Josef et al.**

Koltun, Vladlen (*with* Wenk, Carola) Matching polyhedral terrains using overlays of envelopes. (English summary) **2005j:68111**

Konkle, Shirley E. *see* **Bertram, Martin et al., (2005a:65002)**

Košecká, Jana *see* **Ma, Yi[2] et al., 2005a:68198**

Kozera, Ryszard *see* **Noakes, J. Lyle et al., (2005j:68006)**

Krim, Hamid *see* **Ben Hamza, A. et al.**

Kumazawa, I. *see* **Fanany, M. I.**

Kwon, Song-Hwa *see* **Choi, Hyeong In et al., 2005f:53004**

Léon, Jean-Claude *see* **Pernot, J.-P. et al., (2005i:65007)**

Li, Suo Ping (*with* Yin, Xiaopei) New model used for image denoising and its grid numerical algorithm. (English summary)

Linsen, Lars (*with* Pascucci, Valerio; Duchaineau, M. A.; Hamann, Bernd; Joy, Kenneth I.) Wavelet-based multiresolution with $\sqrt[n]{2}$ subdivision. (English summary) **2005f:42091**

Liu, Ding[1] *see* **Chazelle, Bernard, (2005j:68008)**

Llanas, Bernardo Efficient computation of the Hausdorff distance between polytopes by exterior random covering. (English summary) **2005i:90103**

Ma, Yi² (*with* Soatto, Stefano; Košecká, Jana; Sastry, S. Shankar) ★ An invitation to 3-D vision. **2005a:68198**
Meek, D. S. (*with* Walton, D. J.) A note on finding clothoids. (English summary) **2005d:65077**
— *see also* **Walton, D. J., 2005e:65019**
Meijer, Henk *see* **Fekete, Sándor P., 2005g:68171**
Mikula, Karol (*with* Ševčovič, Daniel) Computational and qualitative aspects of evolution of curves driven by curvature and external force. (English summary) **2005d:53109**
Mikyška, Jiří *see* **Šenkýř, Milan et al., (2005j:65003)**
Mitra, Niloy J. (*with* Nguyen, An; Guibas, Leonidas J.) Estimating surface normals in noisy point cloud data. (English summary) **2005k:65023**
Mitra, Pinaki (*with* Mukhopadhyay, Asish) Computing a closest point to a query hyperplane in three and higher dimensions. (English summary) (*see* **2005i:00014**)
Morvan, Jean-Marie (*with* Thibert, Boris) Approximation of the normal vector field and the area of a smooth surface. (English summary) **2005f:53006**
Mosig, Axel (*with* Clausen, Michael) Approximately matching polygonal curves with respect to the Fréchet distance. (English summary) **2005h:52018**
Motwani, Rajeev *see* **Gavrilov, Martin et al., 2005a:68207**
Mukhopadhyay, Asish *see* **Mitra, Pinaki, (2005i:00014)**
Musgrave, F. Kenton Fractal forgeries of nature. (*see* **2005g:28002**)
Necula, Ioana *see* **González-Vega, Laureano et al., (2005c:68006)**
Nguyen, An *see* **Mitra, Niloy J. et al., 2005k:65023**
Noakes, J. Lyle (*with* Kozera, Ryszard; Klette, Reinhard) Length estimation for curves with different samplings. (English summary) (*see* **2005j:68006**)
Oh, Seungtaik *see* **Kim, Hoisub et al.**
O'Rourke, Joseph (*with* Tewari, Geetika) The structure of optimal partitions of orthogonal polygons into fat rectangles. (English summary) **2005f:68153**
— *see also* **Handbook: Discrete and computational geometry, 2005j:52001**
Osher, Stanley *see* **Geometric level set methods in imaging, vision, and graphics, 2005a:94002** *and* **Zhao, Hong-Kai, (2005a:94002)**
Pal, Nikhil R. *see* **Pal, Srimanta et al.**
Pal, Srimanta (*with* Pal, Nikhil R.; Datta, Amitava) A multi-layer dynamic neural network for convex-hull computation. (English summary)
Pan, Ri Hong *see* **Pan, Ri Jing et al., 2005a:65009**
Pan, Ri Jing (*with* Yao, Zhi Qiang; Pan, Ri Hong) Degree reduction formula and approximate degree reduction of B-spline curves. (Chinese. English and Chinese summaries) **2005a:65009**
(Paragios, Nikos) *see* **Geometric level set methods in imaging, vision, and graphics, 2005a:94002**
Pascucci, Valerio (*with* Cole-McLaughlin, Kree) Parallel computation of the topology of level sets. (English summary) **2005a:68216**
— *see also* **Linsen, Lars et al., 2005f:42091**
Pérez-Díaz, Sonia *see* **González-Vega, Laureano et al., (2005c:68006)**
Pernot, J.-P. (*with* Guillet, S.; Léon, Jean-Claude; Falcidieno, Bianca; Giannini, F.) Interactive operators for free-form feature manipulation. (English summary) (*see* **2005i:65007**)
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Peters, Jörg (*with* Reif, Ulrich) Shape characterization of subdivision surfaces—basic principles. (English summary) **2005f:65019**
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— Distances with rational triangular Bézier surfaces. (English summary) **2005h:65022**
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Romanova, Tatiana *see* **Stoyan, Yu. G. et al., 2005g:90143**
Rusinkiewicz, Szymon *see* **Kazhdan, Michael et al., 2005b:68266**
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Sbert, Mateu *see* **Rigau, Jaume et al., (2005i:00014)** *and* **Vázquez, Pere-Pau, (2005i:00014)**
Schaefer, Scott (*with* Warren, Joe) Adaptive vertex clustering using octrees. (English summary) (*see* **2005i:65007**)
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Schröcker, Hans-Peter (*with* Wallner, Johannes) Curvatures and tolerances in the Euclidean motion group. (English summary) **2005m:53008**
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Sendra, J. Rafael *see* **González-Vega, Laureano et al., (2005c:68006)**
Sendra, Juana *see* **González-Vega, Laureano et al., (2005c:68006)**
Šenkýř, Milan (*with* Mikyška, Jiří; Beneš, Michal) Application of parallel computing techniques for problems of degenerated diffusion. (English summary) (*see* **2005j:65003**)
Ševčovič, Daniel *see* **Mikula, Karol, 2005d:53109**
Shakiban, Chehrzad *see* **Ames, Aaron D. et al., (2005f:00014)**
Sheffer, Alla (*with* Gotsman, Craig; Dyn, Nira) Robust spherical parameterization of triangular meshes. (English summary) (*see* **2005f:65004**)
Shinoda, Junichi *see* **Cheng, Wen-Jie et al., 2005k:65029**
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Sottile, Frank Toric ideals, real toric varieties, and the moment map. (English summary) **2005g:14100**
Stoyan, Yu. G. (*with* Scheithauer, Guntram; Pridatko, D. I.; Romanova, Tatiana) Φ-functions of objects having the spatial boundary shapes of a cone, a cylinder, or a parallelepiped. (Russian. English summary) **2005g:90143**
Streinu, Ileana Editorial [Special issue on the 10th Fall Workshop on Computational Geometry].
Sugihara, Kokichi Mathematics of pictures of impossible objects: human vision vs. robot vision [translation of Sūgaku **54** (2002), no. 1, 58–68; MR1918698 (2004h:68138)]. (*see* **2005a:00025**)
Sühling, Michael *see* **Arigovindan, Muthuvel et al.**
Tang, Xing *see* **Feng, Yuyu et al., (2005c:68006)**
Teixeira, Ralph *see* **Craizer, Marcos et al., 2005m:68225**
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Thibert, Boris *see* **Morvan, Jean-Marie, 2005f:53006**
Unser, Michael *see* **Arigovindan, Muthuvel et al.**
Ushijima, Takeo K. (*with* Yazaki, Shigetoshi) Convergence of a crystalline approximation for an area-preserving motion. (English summary) **2005g:74091**
Vázquez, Pere-Pau (*with* Sbert, Mateu) Fast adaptive selection of best views. (English summary) (*see* **2005i:00014**)
Ventkatasubramanian, Suresh *see* **Gavrilov, Martin et al., 2005a:68207** *and* **Efrat, Alon et al., 2005d:52027**
Vitulano, Domenico *see* **Gelli, Daniele**
Wallner, Johannes *see* **Schröcker, Hans-Peter, 2005m:53008**
Walton, D. J. (*with* Meek, D. S.) A generalisation of the Pythagorean hodograph quintic spiral. (English summary) **2005e:65019**
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(Wang, Dongming) *see* **Geometric computation, 2005c:68006**
Wang, Guo Jin[1] *see* **Zhang, Ren Jiang, 2005m:65032**
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Wang, Jia Ye *see* **Wang, Wen Ping[1] et al., (2005f:65004)**
Wang, Wen Ping[1] (*with* Choi, Yi-King; Chan, Bin; Kim, Myung Soo; Wang, Jia Ye) Efficient collision detection for moving ellipsoids using separating planes. (English summary) (*see* **2005f:65004**)
Wang, Yalin *see* **Gu, Xianfeng et al., 2005m:53019**
Warren, Joe *see* **Schaefer, Scott, (2005i:65007)**
Wee, Nam-Sook *see* **Choi, Hyeong In et al., 2005f:53004**
Wei, Yong Wei (*with* Wang, Guo Zhao; Yang, Qin Min) Degree elevation of interval Bézier curves and surfaces. (Chinese. English and Chinese summaries) **2005d:65026**
Wenk, Carola *see* **Koltun, Vladlen, 2005j:68111**
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Xu, Guo-liang Discrete Laplace-Beltrami operators and their convergence. (English summary) **2005j:58027**
Yamamoto, Osami Fast computation of three-dimensional convex hulls using graphics hardware. (English summary)
Yang, Qin Min *see* **Wei, Yong Wei et al., 2005d:65026**
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Žára, Jiří *see* **Kohout, Josef et al.**
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Zhang, Ren Jiang (*with* Wang, Guo Jin[1]) Error estimates for approximating a parametric surface by interpolated plane triangular patches. (Chinese. English summary) **2005m:65032**
Zhang, Shugong *see* **Feng, Guochen et al., 2005c:65010**
Zhang, X. W. *see* **Dai, H. K., (2005d:68010)**
Zhao, Hong-Kai (*with* Osher, Stanley) Visualization, analysis and shape reconstruction of sparse data. (English summary) (*see* **2005a:94002**)
Zhao, Wulue *see* **Dey, Tamal K., 2005d:68135**
Zhou, Sheng (*with* Jones, Christopher Bernard) HCPO: an efficient insertion order for incremental Delaunay triangulation.
Zhou, Yun-shi *see* **Feng, Guochen et al., 2005c:65010**
Zisserman, Andrew *see* **Hartley, Richard, 2005b:68251**
Zomorodian, Afra J. ★ Topology for computing. **2005i:68001**

Items listed otherwise than by author

Dagstuhl ★ Geometric modelling. **2005g:65010**
Geometric computation ★ Geometric computation. **2005c:68006**
Geometric level set methods in imaging, vision, and graphics ★ Geometric level set methods in imaging, vision, and graphics. **2005a:94002**
Geometric modelling ★ Geometric modelling. **2005f:65004**
— ★ Geometric modelling. **2005g:65010**
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Hefei ★ Geometric computation. **2005c:68006**
Lecture Notes in Computer Science *see* **Heuel, Stephan, 2005e:62003**

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Adamchik, V. S. Symbolic and numeric computations of the Barnes function. (English summary) **2005f:65026**
Barrio, Roberto Algorithms for the integration and derivation of Chebyshev series. (English summary) **2005a:65019**
Bobenko, A. I. *see* **Deconinck, Bernard et al., 2005c:65015**
Deconinck, Bernard (*with* Heil, Matthias; Bobenko, A. I.; van Hoeij, Mark; Schmies, Markus) Computing Riemann theta functions. (English summary) **2005c:65015**
Defour, David (*with* Hanrot, Guillaume; Lefèvre, Vincent; Muller, Jean-Michel; Revol, Nathalie; Zimmermann, Paul) Proposal for a standardization of mathematical function

implementation in floating-point arithmetic. (English summary)
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Fabijonas, Bruce R. Algorithm 838: Airy functions. (English summary)
Feil, T. M. (*with* Homeier, H. H. H.) Programs for the approximation of real and imaginary single- and multi-valued functions by means of Hermite-Padé-approximants. (English summary)
Gil, Amparo (*with* Segura, Javier; Temme, Nico M.) Computing solutions of the modified Bessel differential equation for imaginary orders and positive arguments. (English summary) **2005b:65020**
— (*with* Segura, Javier; Temme, Nico M.) Algorithm 831: modified Bessel functions of imaginary order and positive argument. (English summary)
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Heil, Matthias *see* **Deconinck, Bernard et al., 2005c:65015**
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Lefèvre, Vincent *see* **Defour, David et al.**
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Revol, Nathalie *see* **Defour, David et al.**
Schmies, Markus *see* **Deconinck, Bernard et al., 2005c:65015**
Segura, Javier *see* **Gil, Amparo et al., 2005b:65020**
Tee, Garry J. Further approximations to the error function.
Temme, Nico M. *see* **Gil, Amparo et al., 2005b:65020**
Vollinga, Jens (*with* Weinzierl, Stefan) Numerical evaluation of multiple polylogarithms. (English summary) **2005k:65050**
Weinzierl, Stefan *see* **Vollinga, Jens, 2005k:65050**
Winitzki, Serge Uniform approximations for transcendental functions. (English summary) (*see* **2005g:65008**)
— Computing the incomplete gamma function to arbitrary precision. (English summary) (*see* **2005g:65008**)
Zimmermann, Paul *see* **Defour, David et al.**

Items with secondary classifications in 65D20

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Boros, George (*with* Moll, Victor H.) The integration of rational functions: examples and problems. I. (English summary) **2005g:65037**
Croot, E. S., III (*with* Li, Ren-Cang; Zhu, Hui June) The *abc* conjecture and correctly rounded reciprocal square roots. (English summary) **2005b:65056**
Didier, Laurent-Stéphane (*with* Rico, Fabien) High radix BKM algorithm. (English summary)
Doha, E. H. (*with* Ahmed, H. M.) Recurrences and explicit formulae for the expansion and connection coefficients in series of Bessel polynomials. (English summary) **2005g:33012**
Fabijonas, Bruce R. (*with* Lozier, D. W.; Rappoport, Yu. M.) Algorithms and codes for the Macdonald function: recent progress and comparisons. (English summary) **2005f:33008**
— (*with* Lozier, D. W.; Olver, F. W. J.) Computation of complex Airy functions and their zeros using asymptotics and the differential equation. (English summary) **2005j:33024**
Ferreira, Chelo (*with* López García, José Luis) Asymptotic expansions of the Appell's function F_1. (English summary) **2005h:41063**
Gatteschi, Luigi Asymptotics for the zeros of Whittaker's functions. (English and Italian summaries) **2005c:33005**
Gil, Amparo (*with* Segura, Javier; Temme, Nico M.) Integral representations for computing real parabolic cylinder functions. (English summary) **2005f:33010**
Hwang, Chien-Lih π at the limits of computation. (English summary) **2005i:11180**
Kaminski, D. (*with* Paris, R. B.) On the use of Hadamard expansions in hyperasymptotic evaluation: differential equations of hypergeometric type. (English summary) **2005a:33005**
Li, Ren-Cang *see* **Croot, E. S., III et al., 2005b:65056**
López García, José Luis *see* **Ferreira, Chelo, 2005h:41063**
Lozier, D. W. *see* **Fabijonas, Bruce R. et al., 2005f:33008** *and* **2005j:33024**
Mamedov, Bahtiyar On the evaluation of Boys functions using downward recursion relation. (English summary)
Mathar, Richard J. Numerical representations of the incomplete gamma function of complex-valued argument. (English summary) **2005h:33014**
Moll, Victor H. *see* **Boros, George, 2005g:65037**
Olver, F. W. J. *see* **Fabijonas, Bruce R. et al., 2005j:33024**
Paris, R. B. On the use of Hadamard expansions in hyperasymptotic evaluation of Laplace-type integrals. II. Complex variable. (English summary) **2005g:44002**
— *see also* **Kaminski, D., 2005a:33005**
Rappoport, Yu. M. *see* **Fabijonas, Bruce R. et al., 2005f:33008**
Rico, Fabien *see* **Didier, Laurent-Stéphane**
Segura, Javier *see* **Gil, Amparo et al., 2005f:33010**
Srinivasa Rao, Killampalli Numerical aspects of special functions. (English summary) (*see* **2005d:33002**)
Temme, Nico M. *see* **Gil, Amparo et al., 2005f:33010**
Van Buren, Arnie L. (*with* Boisvert, Jeffrey E.) Improved calculation of prolate spheroidal radial functions of the second kind and their first derivatives. (English summary) **2005g:33047**
Weniger, Ernst Joachim A rational approximant for the digamma function. (English summary) **2005b:33003**
Zhu, Hui June *see* **Croot, E. S., III et al., 2005b:65056**

65D25 Numerical differentiation

Al-Dabass, D. (*with* Evans, David John[1]; Sivayoganathan, S.) A recurrent network architecture for nonlinear parameter tracking algorithms. (English summary) (*see* **2005m:00008**)
Auerbach, Scott M. *see* **Mohankumar, N.**
Bücker, H. Martin (*with* Rasch, Arno) Modeling the performance of interface contraction. (English summary)
Chen, Yang Quan (*with* Vinagre, Blas M.; Podlubny, Igor) Continued fraction expansion approaches to discretizing fractional order derivatives—an expository review. (English summary)
Cheng, Jin[2] (*with* Jia, Xianzheng; Wang, Yan Bo[1]) Numerical differentiation on the nonuniform grid and its error estimate. (English summary) **2005h:65033**
Evans, David John[1] *see* **Al-Dabass, D. et al., (2005m:00008)**
Forth, Shaun A. (*with* Tadjouddine, Mohamed; Pryce, John D.; Reid, John K.) Jacobian code generated by source transformation and vertex elimination can be as efficient as hand-coding. (English summary) **2005i:65028**
— *see also* **Tadjouddine, Mohamed et al., (2005g:65009)**
Hon, Yiu-Chung *see* **Wei, Ting et al., 2005m:65035**
Jia, Xianzheng *see* **Cheng, Jin[2] et al., 2005h:65033**
Mohankumar, N. (*with* Auerbach, Scott M.) On the use of higher-order formula for numerical derivatives in scientific computing. (English summary)
Neidinger, Richard D. Directions for computing truncated multivariate Taylor series. (English summary) **2005f:65028**
Petrovskaya, N. B. The choice of weighted coefficients in the problem of approximating the gradient by the least squares method. (Russian. English and Russian summaries) **2005f:65029**
Podlubny, Igor *see* **Chen, Yang Quan et al.**
Pryce, John D. *see* **Forth, Shaun A. et al., 2005i:65028** *and* **Tadjouddine, Mohamed et al., (2005g:65009)**
Rasch, Arno *see* **Bücker, H. Martin**
Rashed, M. T. An algorithm to compute the derivatives of the function. (English summary)
— Lagrange interpolation to compute the derivatives of a function. (English summary)
Reid, John K. *see* **Forth, Shaun A. et al., 2005i:65028**
Sivayoganathan, S. *see* **Al-Dabass, D. et al., (2005m:00008)**
Skorik, G. G. On the best error estimate for the method of averaging kernels in the problem of the differentiation of a noisy function. (Russian)
Tadjouddine, Mohamed (*with* Forth, Shaun A.; Pryce, John D.) Hierarchical automatic differentiation by vertex elimination and source transformation. (English summary) (*see* **2005g:65009**)
— *see also* **Forth, Shaun A. et al., 2005i:65028**
Vinagre, Blas M. *see* **Chen, Yang Quan et al.**
Wang, Sheng Zhang *see* **Yang, Gu Fan et al.**
Wang, Yan Bo[1] *see* **Cheng, Jin[2] et al., 2005h:65033** *and* **Wei, Ting et al., 2005m:65035**
Wei, Ting (*with* Hon, Yiu-Chung; Wang, Yan Bo[1]) Reconstruction of numerical derivatives from scattered noisy data. (English summary) **2005m:65035**
Yang, Gu Fan (*with* Ye, Yu Zhang; Wang, Sheng Zhang) Numerical differentiation for periodic functions and its applications. (Chinese. English and Chinese summaries)
Ye, Yu Zhang *see* **Yang, Gu Fan et al.**

Items with secondary classifications in 65D25

Aziz, T. *see* **Khan, Arshad et al., 2005e:65096**
de Boor, Carl R. An efficient definition of the divided difference. (English summary) **2005m:41002**
Darvishi, Mohammad Taghi Accuracy enhancement of computing differentiation in matrix vector multiplication method. (English summary) **2005d:65215**
Feng, Xiang Chu (*with* Song, Guo Xiang; Tang, Yuan Yan[1]) Multiwavelet-based differentiation matrix with absorbed boundary conditions. (English summary) (*see* **2005i:42002**)
Huang, Cheng *see* **Yuan, Xiu Gui**
Khan, Arshad (*with* Noor, Muhammad Aslam; Aziz, T.) Parametric quintic-spline approach to the solution of a system of fourth-order boundary-value problems. (English summary) **2005e:65096**
Meerschaert, Mark M. (*with* Mortensen, Jeff; Scheffler, Hans-Peter) Vector Grünwald formula for fractional derivatives. (English summary) **2005f:26018**
Mortensen, Jeff *see* **Meerschaert, Mark M. et al., 2005f:26018**
Noor, Muhammad Aslam *see* **Khan, Arshad et al., 2005e:65096**
Scheffler, Hans-Peter *see* **Meerschaert, Mark M. et al., 2005f:26018**
Shukla, Ratnesh K. (*with* Zhong, Xiaolin) Derivation of high-order compact finite difference schemes for non-uniform grid using polynomial interpolation. (English summary)
Song, Guo Xiang *see* **Feng, Xiang Chu et al., (2005i:42002)**
Tang, Yuan Yan[1] *see* **Feng, Xiang Chu et al., (2005i:42002)**
Yuan, Xiu Gui (*with* Huang, Cheng) Comparison of the finite difference expression with the multiresolution expression for the second derivation. (Chinese. English and Chinese summaries)
Zhong, Xiaolin *see* **Shukla, Ratnesh K.**

65D30 Numerical integration

Aguilar, Juan Carlos (*with* Chen, Yu[5]) High-order corrected trapezoidal quadrature rules for the Coulomb potential in three dimensions. (English summary) **2005m:65036**
Altas, Irfan *see* **Yazıcı, Ali et al., (2005c:00014)**
Apaĭcheva, L. A. Optimal quadrature and cubature formulas for singular integrals with Hilbert kernels. (Russian) **2005e:65024**
Atanassov, Emanouil I. (*with* Durchova, Mariya K.) Generating and testing the modified Halton sequences. (English summary) **2005g:65036**
Atkinson, Kendall Quadrature of singular integrands over surfaces. (English summary) **2005h:65034**
Babolian, E. *see* **Eslahchi, M. R. et al., 2005m:65037**
Baltensperger, Richard *see* **Weber, Valéry et al.**
Boros, George (*with* Moll, Victor H.) The integration of rational functions: examples and problems. I. (English summary) **2005g:65037**

Bungartz, H.-J. (*with* Dirnstorfer, S.) Multivariate quadrature on adaptive sparse grids. (English summary) **2005a:65020**
Cerone, Pietro *see* **Dragomir, Sever Silvestru et al., 2005c:65016**
Chen, Yu[5] *see* **Aguilar, Juan Carlos, 2005m:65036**
Chesneaux, J.-M. *see* **Jézéquel, Fabienne, 2005d:65034**
Choi, U. Jin (*with* Kim, Shin Wook; Yun, Beong In) Improvement of the asymptotic behaviour of the Euler-Maclaurin formula for Cauchy principal value and Hadamard finite-part integrals. (English summary) **2005f:65030**
Cools, Ronald (*with* Govaert, Hilde) Five- and six-dimensional lattice rules generated by structured matrices. (English summary) **2005a:65021**
Cuomo, Salvatore (*with* Galletti, Ardelio) Conditioning and convergence of a quadrature process. (English summary) **2005i:65029**
Cvetković, Aleksandar S. *see* **Milovanović, Gradimir V. et al., 2005g:65041** *and* **2005i:65031**
Daul, Claude *see* **Weber, Valéry et al.**
Dehghan, Mehdi *see* **Eslahchi, M. R. et al., 2005m:65038**
Demichelis, V. (*with* Rabinowitz, Philip) Finite-part integrals and modified splines. (English summary) **2005e:65025**
Dick, Josef (*with* Kuo, Frances Y.) Constructing good lattice rules with millions of points. (English summary) (*see* **2005b:65002**)
— On the convergence rate of the component-by-component construction of good lattice rules. (English summary) **2005h:65035**
— (*with* Kuo, Frances Y.) Reducing the construction cost of the component-by-component construction of good lattice rules. (English summary) **2005b:65021**
Ding, Ning[2] *see* **Liu, Quan[1], 2005k:65052**
Dirnstorfer, S. *see* **Bungartz, H.-J., 2005a:65020**
Dragomir, Sever Silvestru (*with* Cerone, Pietro; Sofo, Anthony) Some remarks on the midpoint rule in numerical integration. (English summary) **2005c:65016**
— New estimates of the Čebyšev functional for Stieltjes integrals and applications. (English summary) **2005a:65022**
— *see also* **Fedotov, I., 2005d:65032**
Du, Shao Hong (*with* Hu, Chao Lang; Lü, Tao) A new quadrature formula for multiple numerical integration. (Chinese. English and Chinese summaries) **2005f:65031**
Durchova, Mariya K. *see* **Atanassov, Emanouil I., 2005g:65036**
Dzyubko, S. I. Application of recursive constructions for numerical integration, and the determination of invariant errors. (Russian. Russian summary) **2005k:65051**
Elliott, David Sigmoidal-trapezoidal quadrature for ordinary and Cauchy principal value integrals. (English summary) **2005f:65032**
Ergenç, Tanıl *see* **Yazıcı, Ali et al., (2005c:00014)**
Eslahchi, M. R. (*with* Masjed Jamei, Mohammad; Babolian, E.) On numerical improvement of Gauss-Lobatto quadrature rules. (English summary) **2005m:65037**
— (*with* Dehghan, Mehdi; Masjed Jamei, Mohammad) On numerical improvement of the first kind Gauss-Chebyshev quadrature rules. (English summary) **2005m:65038**
Evans, G. A. Multiple quadrature using highly oscillatory quadrature methods. (English summary) **2005a:65023**
Fedotov, I. (*with* Dragomir, Sever Silvestru) On convergence of quadrature methods for the Lipschitz-continuous functions. (English summary) **2005d:65032**
Galletti, Ardelio *see* **Cuomo, Salvatore, 2005i:65029**
Gao, Xiao-Wei Evaluation of regular and singular domain integrals with boundary-only discretization—theory and Fortran code. (English summary) **2005h:65036**
Gao, Zhong She A compactly supported spline wavelet method for numerical integration. (Chinese. English and Chinese summaries)
Govaert, Hilde *see* **Cools, Ronald, 2005a:65021**
Guessab, Allal (*with* Schmeisser, Gerhard) Convexity results and sharp error estimates in approximate multivariate integration. (English summary) **2005c:65017**
Hahn, Tomas Cuba—a library for multidimensional numerical integration. (English summary)
Hannay, J. H. (*with* Nye, J. F.) Fibonacci numerical integration on a sphere. (English summary) **2005g:65038**
Hickernell, Fred J. (*with* Sloan, Ian H.; Wasilkowski, Grzegorz W.) On tractability of weighted integration for certain Banach spaces of functions. (English summary) (*see* **2005b:65002**)
— (*with* Sloan, Ian H.; Wasilkowski, Grzegorz W.) The strong tractability of multivariate integration using lattice rules. (English summary) (*see* **2005b:65002**)
— (*with* Sloan, Ian H.; Wasilkowski, Grzegorz W.) On tractability of weighted integration over bounded and unbounded regions in $\mathbb{R}^s$. (English summary) **2005c:65018**
— (*with* Sloan, Ian H.; Wasilkowski, Grzegorz W.) On strong tractability of weighted multivariate integration. (English summary) **2005c:65019**
Hu, Chao Lang *see* **Du, Shao Hong et al., 2005f:65031**
Hu, Xiao-fei (*with* Ye, Pei Xin) Quantum complexity of the integration problem for anisotropic classes. (English summary) **2005m:65039**
Hunter, D. B. (*with* Smith, H. V.) A quadrature formula of Clenshaw-Curtis type for the Gegenbauer weight-function. (English summary) **2005m:65040**
Iričanin, Bratislav D. On a modification of adaptive composite numerical integration. (English summary) (*see* **2005i:65006**)
Iserles, Arieh On the numerical quadrature of highly-oscillating integrals. I. Fourier transforms. (English summary) **2005d:65033**
— On the numerical quadrature of highly-oscillating integrals. II. Irregular oscillators. (English summary) **2005i:65030**
Jézéquel, Fabienne (*with* Chesneaux, J.-M.) Computation of an infinite integral using Romberg's method. (English summary) **2005d:65034**
Joe, Stephen Component by component construction of rank-1 lattice rules having $O(n^{-1}(\ln(n))^d)$ star discrepancy. (English summary) (*see* **2005b:65002**)
Keller, Alexander Stratification by rank-1 lattices. (English summary) (*see* **2005b:65002**)
Khubezhty, Sh. S. On the approximate computation of Cauchy-type integrals. (Russian. Russian summary) **2005d:65035**
Kim, Shin Wook *see* **Choi, U. Jin et al., 2005f:65030**
Kuo, Frances Y. *see* **Dick, Josef, 2005b:65021** *and* **(2005b:65002)**
Kwas, Marek (*with* Li, Youming[1]) Worst case complexity of multivariate Feynman-Kac path integration. (English summary) **2005g:65039**
Lampret, Vito An invitation to Hermite's integration and summation: a comparison between Hermite's and Simpson's rules. (English summary) **2005m:65041**
Li, Youming[1] *see* **Kwas, Marek, 2005g:65039**
Lin, Xu Dong Proinov's conjecture on the integration of multi-dimensional continuous functions. (Chinese. English and Chinese summaries) **2005a:65024**
Liu, Quan[1] (*with* Ding, Ning[2]) A practical numerical method for Fermi-Dirac integrals and its applications. (Chinese. English summary) **2005k:65052**
Lü, Tao *see* **Du, Shao Hong et al., 2005f:65031**
Lyness, J. N. (*with* Monegato, Giovanni) Asymptotic expansions for two-dimensional hypersingular integrals. (English summary) **2005m:65042**
Masjed Jamei, Mohammad *see* **Eslahchi, M. R. et al., 2005m:65037** *and* **2005m:65038**
Mastroianni, Giuseppe (*with* Monegato, Giovanni) Truncated quadrature rules over $(0, \infty)$ and Nyström-type methods. (English summary) **2005b:65022**
— (*with* Occorsio, D.) Markov-Sonin Gaussian rule for singular functions. (English summary) **2005e:65026**
Mhaskar, H. N. Local quadrature formulas on the sphere. II. (English summary) **2005m:65043**
— On the tractability of multivariate integration and approximation by neural networks. (English summary) **2005g:65040**
— Local quadrature formulas on the sphere. (English summary) **2005k:65053**
Milovanović, Gradimir V. (*with* Spalević, Miodrag M.) Error analysis in some Gauss-Turán-Radau and Gauss-Turán-Lobatto quadratures for analytic functions. (English summary) **2005a:65025**
— (*with* Spalević, Miodrag M.; Cvetković, Aleksandar S.) Calculation of Gaussian-type quadratures with multiple nodes. (English summary) **2005g:65041**
— (*with* Cvetković, Aleksandar S.) Uniqueness and computation of Gaussian interval quadrature formula for Jacobi weight function. (English summary) **2005i:65031**
Moll, Victor H. *see* **Boros, George, 2005g:65037**
Monegato, Giovanni *see* **Mastroianni, Giuseppe, 2005b:65022** *and* **Lyness, J. N., 2005m:65042**
Nishimura, Shigeto Spherical t-designs and the Bernstein theorem. (English summary) **2005b:65023**
Noskov, M. V. (*with* Schmid, H. J.) Cubature formulas of high trigonometric accuracy. (Russian. Russian summary) **2005j:65024**
Nye, J. F. *see* **Hannay, J. H., 2005g:65038**
Occorsio, D. *see* **Mastroianni, Giuseppe, 2005e:65026**
Petras, K. Numerical computation of an integral representation for arithmetic-average Asian options. (English summary) **2005e:65027**
Popov, Anatoliĭ Stepanovich The search for the best cubature formulas invariant under the octahedral group of rotations for a sphere. (English summary) (*see* **2005i:65006**)
Rabinowitz, Philip *see* **Demichelis, V., 2005e:65025**
Schmeisser, Gerhard *see* **Guessab, Allal, 2005c:65017**
Schmid, H. J. *see* **Noskov, M. V., 2005j:65024**
Schürer, Rudolf Adaptive quasi-Monte Carlo integration based on MISER and VEGAS. (English summary) (*see* **2005b:65002**)
Sloan, Ian H. (*with* Womersley, Robert S.) Extremal systems of points and numerical integration on the sphere. (English summary) **2005b:65024**
— *see also* **Hickernell, Fred J. et al., 2005c:65018; 2005c:65019; (2005b:65002)** *and* **(2005b:65002)**
Smith, H. V. *see* **Hunter, D. B., 2005m:65040**
Sofo, Anthony *see* **Dragomir, Sever Silvestru et al., 2005c:65016**
Spalević, Miodrag M. *see* **Milovanović, Gradimir V. et al., 2005a:65025** *and* **2005g:65041**
Sugita, Hiroshi Numerical integration of complicated functions and random sampling. (Japanese) **2005a:65026**
Van Daele, M. (*with* Vanden Berghe, Guido; Vande Vyver, H.) Exponentially fitted quadrature rules of Gauss type for oscillatory integrands. (English summary) **2005k:65054**
Vanden Berghe, Guido *see* **Van Daele, M. et al., 2005k:65054**
Vande Vyver, H. *see* **Van Daele, M. et al., 2005k:65054**
Vasil'eva, L. G. (*with* Zhileĭkin, Ya. M.) On the fast computation of the nodes and weights of the Gauss quadrature. (Russian. Russian summary) **2005g:65042**
Wasilkowski, Grzegorz W. *see* **Hickernell, Fred J. et al., 2005c:65018; 2005c:65019; (2005b:65002)** *and* **(2005b:65002)**
Weber, Valéry (*with* Daul, Claude; Baltensperger, Richard) Radial numerical integrations based on the sinc function. (English summary)
Womersley, Robert S. *see* **Sloan, Ian H., 2005b:65024**
Yazıcı, Ali (*with* Ergenç, Tanıl; Altas, Irfan) Romberg integration: a symbolic approach with Mathematica. (English summary) (*see* **2005c:00014**)
Ye, Pei Xin *see* **Hu, Xiao-fei, 2005m:65039**
Yun, Beong In An extended sigmoidal transformation technique for evaluating weakly singular integrals without splitting the integration interval. (English summary) **2005b:65025**
— A non-linear co-ordinate transformation for accurate numerical evaluation of weakly singular integrals. (English summary) **2005b:65026**
— *see also* **Choi, U. Jin et al., 2005f:65030**
Zakharova, J. F. Approximate methods to calculate multidimensional singular integrals with a fixed singularity on infinite domain. (English summary) (*see* **2005i:65006**)
Zhileĭkin, Ya. M. *see* **Vasil'eva, L. G., 2005g:65042**

Items with secondary classifications in 65D30

Acu, Dumitru (*with* Dicu, Petrică) About some properties of intermediate point in certain mean-value formulas. (English summary)
Albrecher, Hansjörg (*with* Hartinger, Jürgen; Tichy, Robert F.) Multivariate approximation methods for the pricing of catastrophe-linked bonds. (English summary) (*see* **2005a:41001**)
Ascenzi, Oscar (*with* Pareschi, Lorenzo; Segala, Fausto) Convergence of a quadrature formula for the approximation of stress intensity factor for planar cracks. (English summary) **2005g:74048**
Baratella, Paola (*with* Palamara Orsi, Annamaria) A new approach to the numerical solution of weakly singular Volterra integral equations. (English summary) **2005a:65157**
Baxter, G. W. *see* **Dragomir, N. M. et al., (2005a:00016)**

Berlu, Lilian (*with* Safouhi, Hassan) A new algorithm for accurate and fast numerical evaluation of hybrid and three-centre two-electron Coulomb integrals over Slater-type functions. (English summary) **2005f:81300**

Blaga, Petru P. Weighted uniform sampling method based on spline functions. (English summary) **2005j:62025**

Börm, Steffen (*with* Löhndorf, Maike; Melenk, Jens M.) Approximation of integral operators by variable-order interpolation. (English summary) **2005j:65176**

Bultheel, Adhemar (*with* Daruis, Leyla; González-Vera, Pablo) Positive interpolatory quadrature formulas and para-orthogonal polynomials. (English summary) **2005m:41061**

Bykovskiĭ, V. A. On the error in number-theoretic quadrature formulas. (Russian. Russian summary) **2005d:11102**

Cerone, Pietro (*with* Dragomir, Sever Silvestru) Three-point inequalities from Riemann-Stieltjes integrals. (English summary) **2005b:26022**

— Perturbed rules in numerical integration from product branched Peano kernels. (English summary) **2005h:41062**

Connell, Christopher A solution to certain polynomial equations with applications to nonlinear fitting. (English summary) **2005g:65086**

Cools, Ronald *see* **Pillards, Tim**

Cvetković, Aleksandar S. *see* **Milovanović, Gradimir V., 2005b:33012; 2005e:41079; 2005i:41040** *and* **2005m:42040**

Damelin, Steven B. (*with* Grabner, Peter J.) Corrigendum to: "Energy functionals, numerical integration and asymptotic equidistribution on the sphere" [J. Complexity **19** (2003), no. 3, 231–246; MR1984111 (2004e:41032)]. **2005g:41084**

Daruis, Leyla *see* **Bultheel, Adhemar et al., 2005m:41061**

Dick, Josef (*with* Sloan, Ian H.; Wang, Xiaoqun[1]; Woźniakowski, Henryk) Liberating the weights. (English summary) **2005h:65008**

— (*with* Pillichshammer, Friedrich) Multivariate integration in weighted Hilbert spaces based on Walsh functions and weighted Sobolev spaces. (English summary) **2005k:41089**

— *see also* **Wang, Xiaoqun[1] et al., 2005j:65006**

Dicu, Petrică *see* **Acu, Dumitru**

Diethelm, Kai Monotonicity results for a compound quadrature method for finite-part integrals. (English summary) **2005f:41077**

Dragomir, N. M. (*with* Dragomir, Sever Silvestru; Farrell, P. M.; Baxter, G. W.) A quadrature rule for the finite Hilbert transform via midpoint type inequalities. (English summary) (*see* **2005a:00016**)

Dragomir, Sever Silvestru *see* **Cerone, Pietro, 2005b:26022; Tseng, Kuei-Lin et al., 2005e:26036; 2005i:26051** *and* **Dragomir, N. M. et al., (2005a:00016)**

Faghihi, F. Numerical minimization procedures of the adiabatic approximation wavefunction. (English summary)

Farrell, P. M. *see* **Dragomir, N. M. et al., (2005a:00016)**

Fialkow, Lawrence A. (*with* Petrović, Srdjan) A moment matrix approach to multivariable cubature. (English summary) **2005k:47032**

González-Vera, Pablo *see* **Bultheel, Adhemar et al., 2005m:41061**

Grabner, Peter J. *see* **Damelin, Steven B., 2005g:41084**

Guessab, Allal An algorithm to compute Gaussian-type quadrature formulae that integrate polynomials and some spline functions exactly. (English summary) **2005m:65046**

Hartinger, Jürgen (*with* Kainhofer, Reinhold F.; Tichy, Robert F.) Quasi-Monte Carlo algorithms for unbounded, weighted integration problems. (English summary) **2005g:65014**

— *see also* **Albrecher, Hansjörg et al., (2005a:41001)**

Hasegawa, Takemitsu Uniform approximations to finite Hilbert transform and its derivative. (English summary) **2005a:41025**

Hassenpflug, W. C. (*with* Thiart, G. D.) Convolution number evaluation of wave-making velocity. (English summary) **2005g:76010**

He, Tian Xiao Dimensionality-reducing expansion, boundary type quadrature formulas, and the boundary element method. (English summary) **2005h:65228**

Heinrich, Stefan (*with* Novak, Erich; Pfeiffer, Harald P.) How many random bits do we need for Monte Carlo integration? (English summary) **2005g:65015**

Hinrichs, Aicke Covering numbers, Vapnik-Červonenkis classes and bounds for the star-discrepancy. (English summary) **2005e:11098**

Ho, Ming-In (*with* Hwang, Shiow-Ru) Some generalizations of open Newton-Cotes inequalities for mappings of bounded variation. (English summary) **2005h:26035**

Hörmann, Wolfgang *see* **Leydold, Josef, 2005k:65008**

Hwang, Dah-Yan Improvements of Euler-trapezoidal type inequalities with higher-order convexity and applications. (English summary) **2005d:26022**

Hwang, Shiow-Ru *see* **Ho, Ming-In, 2005h:26035**

Jézéquel, Fabienne Dynamical control of converging sequences computation. (English summary) **2005b:65004**

Kainhofer, Reinhold F. *see* **Hartinger, Jürgen et al., 2005g:65014**

Kang, Sheon-Young Volterra method for the radial Schrödinger equation. (English summary) **2005d:65120**

Keller, Alexander Trajectory splitting by restricted replication. (English summary)

Kırmacı, Uğur S. (*with* Özdemir, M. Emin) On some inequalities for differentiable mappings and applications to special means of real numbers and to midpoint formula. (English summary) **2005d:26024**

Koivu, Matti *see* **Pennanen, Teemu, 2005k:90094**

Kong, Rong *see* **Spanier, Jerome, (2005b:65002)**

Kuo, Frances Y. (*with* Sloan, Ian H.) Quasi-Monte Carlo methods can be efficient for integration over products of spheres. (English summary) **2005k:65007**

Kythe, Prem K. (*with* Schäferkotter, Michael R.) ★ Handbook of computational methods for integration.

Lebedev, V. I. Extremal polynomials and methods for the optimization of numerical algorithms. (Russian. Russian summary) **2005m:41058**

L'Ecuyer, Pierre Polynomial integration lattices. (English summary) (*see* **2005b:65002**)

Leydold, Josef (*with* Hörmann, Wolfgang) Smoothed transformed density rejection. (English summary) **2005k:65008**

Lifanov, Ivan K. *see* **Vaĭnikko, G. M., 2005a:40005**

Liu, Zheng[1] On a trapezoidal type rule for weighted integrals. (English summary) **2005i:41039**

Löhndorf, Maike *see* **Börm, Steffen et al., 2005j:65176**

Lupaş, Alexandru The positivity of a certain quadrature. (*see* **2005b:41002**)

Lyons, Terry (*with* Victoir, Nicolas) Cubature on Wiener space. (English summary) **2005b:35306**

Ma, Wan *see* **Wang, Xing Hua[1] et al., 2005i:41041**

Melenk, Jens M. *see* **Börm, Steffen et al., 2005j:65176**

Mi, Xiang-jiang *see* **Wang, Xing Hua[1] et al., 2005i:41041**

Milovanović, Gradimir V. (*with* Cvetković, Aleksandar S.) An application of little $1/q$-Jacobi polynomials to summation of certain series. (English summary) **2005b:33012**

— (*with* Cvetković, Aleksandar S.) Standard and non-standard quadratures of Gaussian type. (English summary) **2005i:41040**

— (*with* Cvetković, Aleksandar S.) Convergence of Gaussian quadrature rules for approximation of certain series. (English summary) **2005e:41079**

— (*with* Stanić, Marija) Multiple orthogonal polynomials on the semicircle and corresponding quadratures of Gaussian type. (English summary) **2005g:42063**

— (*with* Spalević, Miodrag M.) Bounds of the error of Gauss-Turán-type quadratures. (English summary) **2005k:41091**

— (*with* Cvetković, Aleksandar S.) Orthogonal polynomials and Gaussian quadrature rules related to oscillatory weight functions. (English summary) **2005m:42040**

Niederreiter, Harald *see* **Xing, Chaoping, (2005b:65002)**

Novak, Erich *see* **Heinrich, Stefan et al., 2005g:65015**

Nursultanov, E. D. (*with* Tleukhanova, N. T.) Quadrature formulae for classes of functions of low smoothness. (Russian. Russian summary) **2005b:41020**

Özdemir, M. Emin *see* **Kırmacı, Uğur S., 2005d:26024**

Palamara Orsi, Annamaria *see* **Baratella, Paola, 2005a:65157**

Pareschi, Lorenzo *see* **Ascenzi, Oscar et al., 2005g:74048**

Pennanen, Teemu (*with* Koivu, Matti) Epi-convergent discretizations of stochastic programs via integration quadratures. (English summary) **2005k:90094**

Petrović, Srdjan *see* **Fialkow, Lawrence A., 2005k:47032**

Pfeiffer, Harald P. *see* **Heinrich, Stefan et al., 2005g:65015**

Pillards, Tim (*with* Cools, Ronald) Transforming low-discrepancy sequences from a cube to a simplex. (English summary)

Pillichshammer, Friedrich On the root mean square weighted L_2 discrepancy of scrambled nets. (English summary) **2005g:65019**

— *see also* **Dick, Josef, 2005k:41089**

Polovinkin, V. I. Asymptotics of the errors of complicated cubature formulas [Translation of Mat. Tr. **7** (2004), no. 2, 109–125; MR2124542]. (English summary)

Popa, Ioan Markoff-type inequalities in weighted L^2-norms. (English summary) **2005h:41023**

Safouhi, Hassan *see* **Berlu, Lilian, 2005f:81300**

Schäferkotter, Michael R. *see* **Kythe, Prem K.**

Segala, Fausto *see* **Ascenzi, Oscar et al., 2005g:74048**

Serdyuk, A. S. Approximation of Poisson integrals by de la Vallée Poussin sums. (Ukrainian. English and Ukrainian summaries) **2005e:42009**

Sheetlin, S. L. Stability of cubature formulas with a boundary layer. (English summary) (*see* **2005i:65006**)

Sidi, Avram Euler-Maclaurin expansions for integrals with endpoint singularities: a new perspective. (English summary) **2005g:65012**

Sidorova, T. V. Investigation of asymptotically optimal Sobolev sequences of quadrature formulas. (*see* **2005i:65006**)

Skrzipek, M.-R. Generalized associated polynomials and their application in numerical differentiation and quadrature. (English summary) **2005k:33008**

Sloan, Ian H. (*with* Woźniakowski, Henryk) When does Monte Carlo depend polynomially on the number of variables? (English summary) (*see* **2005b:65002**)

— *see also* **Dick, Josef et al., 2005h:65008; Wang, Xiaoqun[1] et al., 2005j:65006** *and* **Kuo, Frances Y., 2005k:65007**

Spalević, Miodrag M. *see* **Milovanović, Gradimir V., 2005k:41091**

Spanier, Jerome (*with* Kong, Rong) A new adaptive method for geometric convergence. (English summary) (*see* **2005b:65002**)

Stanić, Marija *see* **Milovanović, Gradimir V., 2005g:42063**

Tan, Zhiqiang[2] On a likelihood approach for Monte Carlo integration. (English summary) **2005i:62064**

Thiart, G. D. *see* **Hassenpflug, W. C., 2005g:76010**

Tichy, Robert F. *see* **Hartinger, Jürgen et al., 2005g:65014** *and* **Albrecher, Hansjörg et al., (2005a:41001)**

Tleukhanova, N. T. *see* **Nursultanov, E. D., 2005b:41020**

Tseng, Kuei-Lin (*with* Yang, Gou Sheng; Dragomir, Sever Silvestru) Hadamard inequalities for Wright-convex functions. (English summary) **2005i:26051**

— (*with* Yang, Gou Sheng; Dragomir, Sever Silvestru) Generalizations of weighted trapezoidal inequality for mappings of bounded variation and their applications. (English summary) **2005e:26036**

Tyrtyshnikov, E. E. Modifications of methods for computing Chebyshev-Laguerre and Gauss-Legendre integrals. (Russian. Russian summary) **2005k:42017**

Ujević, Nenad Generalized perturbed inequalities of Ostrowski type and applications. (English summary) **2005e:26037**

— Double integral inequalities for the averaged midpoint-trapezoid rule and application. (English summary) **2005a:26038**

— On perturbed mid-point and trapezoid inequalities and applications. (English summary) **2005c:26024**

— Two sharp Ostrowski-like inequalities and applications. (English summary) **2005a:26039**

— Perturbed trapezoid and mid-point inequalities and applications. (English summary) **2005c:26025**

— Error inequalities for a quadrature formula and applications. (English summary) **2005i:65032**

— Two sharp inequalities of Simpson type and applications. (English summary) **2005f:26045**

Vaĭnikko, G. M. (*with* Lifanov, Ivan K.) On some approaches to the summation of multidimensional divergent integrals. (Russian. Russian summary) **2005a:40005**

Victoir, Nicolas *see* **Lyons, Terry, 2005b:35306**

Wang, Xiaoqun[1] (*with* Sloan, Ian H.; Dick, Josef) On Korobov lattice rules in weighted spaces. (English summary) **2005j:65006**
— *see also* **Dick, Josef et al., 2005h:65008**
Wang, Xing Hua[1] (*with* Ma, Wan; Mi, Xiang-jiang) On the extremal properties of open composite trapezoidal formulae. (English summary) **2005i:41041**
Wasilkowski, Grzegorz W. On polynomial-time property for a class of randomized quadratures. (English summary) **2005h:65010**
Wiegand, Carsten Quantum complexity of parametric integration. (English summary) **2005c:81041**
Woźniakowski, Henryk *see* **Dick, Josef et al., 2005h:65008** *and* **Sloan, Ian H., (2005b:65002)**
Wu, Qingbiao (*with* Yang, Shi-jun) A note to Ujević's generalization of Ostrowski's inequality. (English summary) **2005k:26066**
Xiang, Shuhuang On quadrature of Bessel transformations. (English summary) **2005k:44004**
Xing, Chaoping (*with* Niederreiter, Harald) Digital nets, duality, and algebraic curves. (English summary) (*see* **2005b:65002**)
Yang, Gou Sheng *see* **Tseng, Kuei-Lin et al., 2005e:26036** *and* **2005i:26051**
Yang, Shi-jun *see* **Wu, Qingbiao, 2005k:26066**
Yue, Rong-Xian Randomized error of scrambled net quadrature for tensor product Sobolev and Korobov spaces. (English and Chinese summaries) **2005f:65008**

65D32 Quadrature and cubature formulas

Acu, Dumitru Optimal combined quadrature formulas in Schmeisser's sense. (English summary)
Aliev, Rafik M. (*with* Gasymova, Sara G.) On quadrature formulae. (English summary) **2005m:65044**
Babenko, K. Ē. (*with* Litvin, O. N.) On the numerical realization of the direct Fourier method in computer tomography. (Ukrainian. English summary) **2005d:65036**
Bede, Barnabás (*with* Gal, Sorin G.) Quadrature rules for integrals of fuzzy-number-valued functions. (English summary) **2005f:65033**
Constantinescu, Eugen A certain class of quadratures. (English summary)
Díaz Ferrer, Yohan (*with* Vaillant Pascual, Lelis Raúl; Velázquez Pratts, Abel) Optimal quadrature formulas in integral manifolds. (Spanish. English and Spanish summaries) **2005m:65045**
Dicu, Petrică An intermediate point property in some of the classical generalized formulas of quadrature. (English summary)
Dobrovol'skiĭ, N. M. (*with* Korobov, N. M.) Optimal coefficients for combined lattices. (Russian) **2005a:65027**
Gal, Sorin G. *see* **Bede, Barnabás, 2005f:65033**
Gasymova, Sara G. *see* **Aliev, Rafik M., 2005m:65044**
Guessab, Allal An algorithm to compute Gaussian-type quadrature formulae that integrate polynomials and some spline functions exactly. (English summary) **2005m:65046**
Kim, Kyoung Joong Two-frequency-dependent Gauss quadrature rules. (English summary) **2005f:65034**
Korobov, N. M. *see* **Dobrovol'skiĭ, N. M., 2005a:65027**
Litvin, O. N. *see* **Babenko, K. Ē., 2005d:65036**
Noskov, M. V. (*with* Schmid, H. J.) On the number of nodes in n-dimensional cubature formulae of degree 5 for integrals over the ball. (English summary) **2005f:65035**
Ponomarenko, A. K. Three invariant cubature formulas with centrally symmetric weighting function. (English summary) **2005g:65043**
Roberts, A. J. *see* **Ujević, Nenad, 2005d:65037**
Schmid, H. J. *see* **Noskov, M. V., 2005f:65035**
Sheetlin, S. L. Stability of cubature formulas with a boundary layer. (English summary) (*see* **2005i:65006**)
Sidorova, T. V. Investigation of asymptotically optimal Sobolev sequences of quadrature formulas. (*see* **2005i:65006**)
Singh, Ashok Kumar[1] (*with* Thorpe, G. R.) Simpson's 1/3-rule of integration for unequal divisions of integration domain. (English summary) **2005m:65047**
Szeptycki, Paweł Integration of polynomials. (English summary) **2005f:65036**
Thorpe, G. R. *see* **Singh, Ashok Kumar[1], 2005m:65047**
Ujević, Nenad (*with* Roberts, A. J.) A corrected quadrature formula and applications. (English summary) **2005d:65037**
— Error inequalities for a quadrature formula and applications. (English summary) **2005i:65032**
Vaillant Pascual, Lelis Raúl *see* **Díaz Ferrer, Yohan et al., 2005m:65045**
Velázquez Pratts, Abel *see* **Díaz Ferrer, Yohan et al., 2005m:65045**
Victoir, Nicolas Asymmetric cubature formulae with few points in high dimension for symmetric measures. (English summary) **2005g:65044**

Items with secondary classifications in 65D32

Acu, Ana Maria New results in extremal problems with polynomials. (English summary)
Atkinson, Kendall Quadrature of singular integrands over surfaces. (English summary) **2005h:65034**
Babolian, E. *see* **Eslahchi, M. R. et al., 2005m:65037**
Baratella, Paola (*with* Palamara Orsi, Annamaria) A new approach to the numerical solution of weakly singular Volterra integral equations. (English summary) **2005a:65157**
Barth, Nils R. Computing Cavalieri's quadrature formula by a symmetry of the n-cube.
Burghignoli, Paolo (*with* Pajewski, Lara; Frezza, Fabrizio; Galli, Alessandro; Schettini, Giuseppe) Improved quadrature formulas for boundary integral equations with conducting or dielectric edge singularities. (English summary)
Cerone, Pietro (*with* Dragomir, Sever Silvestru) Perturbed three-point rules. (English summary) **2005c:26027**
— *see also* **Dragomir, Sever Silvestru et al., 2005c:65016**
Cvetković, Aleksandar S. *see* **Milovanović, Gradimir V., 2005i:65031**
Dick, Josef (*with* Kuo, Frances Y.) Reducing the construction cost of the component-by-component construction of good lattice rules. (English summary) **2005b:65021**
— *see also* **Wang, Xiaoqun[1] et al., 2005j:65006**
Dobrovol'skiĭ, M. N. On optimal coefficients of combined lattices. (Russian. Russian summary) **2005m:11143**
Dobrovol'skiĭ, N. M. Multidimensional number-theoretic grids and lattices and their applications to approximate analysis. (Russian) **2005g:11140**
— (*with* Korobov, N. M.) An error estimate for quadrature formulas with optimal parallelepiped grids. (Russian. Russian summary) **2005b:11202**
Dragomir, Sever Silvestru (*with* Cerone, Pietro; Sofo, Anthony) Some remarks on the midpoint rule in numerical integration. (English summary) **2005c:65016**
— *see also* **Cerone, Pietro, 2005c:26027**
Eslahchi, M. R. (*with* Masjed Jamei, Mohammad; Babolian, E.) On numerical improvement of Gauss-Lobatto quadrature rules. (English summary) **2005m:65037**
Frezza, Fabrizio *see* **Burghignoli, Paolo et al.**
Galli, Alessandro *see* **Burghignoli, Paolo et al.**
Hesse, Kerstin (*with* Sloan, Ian H.) Worst-case errors in a Sobolev space setting for cubature over the sphere S^2. (English summary) **2005k:41090**
Korobov, N. M. *see* **Dobrovol'skiĭ, N. M., 2005b:11202**
Kuo, Frances Y. *see* **Dick, Josef, 2005b:65021**
Kzaz, M. (*with* Prévost, M.) Convergence acceleration of Gauss-Chebyshev quadrature formulae. (English summary) **2005e:41078**
Masjed Jamei, Mohammad *see* **Eslahchi, M. R. et al., 2005m:65037**
Mastroianni, Giuseppe (*with* Monegato, Giovanni) Truncated quadrature rules over $(0, \infty)$ and Nyström-type methods. (English summary) **2005b:65022**
Milovanović, Gradimir V. (*with* Cvetković, Aleksandar S.) Uniqueness and computation of Gaussian interval quadrature formula for Jacobi weight function. (English summary) **2005i:65031**
Monegato, Giovanni *see* **Mastroianni, Giuseppe, 2005b:65022**
Noskov, M. V. (*with* Schmid, H. J.) Cubature formulas of high trigonometric accuracy. (Russian. Russian summary) **2005j:65024**
Pajewski, Lara *see* **Burghignoli, Paolo et al.**
Palamara Orsi, Annamaria *see* **Baratella, Paola, 2005a:65157**
Phummark, Somsakun *see* **Podisuk, Maitree**
Pillichshammer, Friedrich A lower bound for rank 2 lattice rules. (English summary) **2005f:11162**
Podisuk, Maitree (*with* Phummark, Somsakun) Newton-Cotes formulas in Runge-Kutta method. (English summary)
Popa, Ioan Quadratures and Taylor polynomials. (English summary) (*see* **2005b:41002**)
Popov, Anatoliĭ Stepanovich The search for the best cubature formulas invariant under the octahedral group of rotations for a sphere. (English summary) (*see* **2005i:65006**)
Prévost, M. *see* **Kzaz, M., 2005e:41078**
Schettini, Giuseppe *see* **Burghignoli, Paolo et al.**
Schmid, H. J. *see* **Noskov, M. V., 2005j:65024**
Sloan, Ian H. *see* **Wang, Xiaoqun[1] et al., 2005j:65006** *and* **Hesse, Kerstin, 2005k:41090**
Sofo, Anthony *see* **Dragomir, Sever Silvestru et al., 2005c:65016**
Taşcu, Ioana On some bivariate Hermite type interpolation and numerical integration formulae. (English summary) **2005f:41010**
Ujević, Nenad An optimal quadrature formula of closed type. (English summary) **2005e:41081**
Vladislav, Tiberiu The construction of quadrature formulas. (English summary)
Wang, Xiaoqun[1] (*with* Sloan, Ian H.; Dick, Josef) On Korobov lattice rules in weighted spaces. (English summary) **2005j:65006**
Yang, Shi-jun On a quadrature formula of Gori and Micchelli. (English summary) **2005k:41093**

65D99 None of the above, but in this section

Beneš, Michal (*with* Chalupecký, Vladimír; Mikula, Karol) Geometrical image segmentation by the Allen-Cahn equation. (English summary) **2005f:65037**
Chalupecký, Vladimír *see* **Beneš, Michal et al., 2005f:65037**
Lasserre, Jean-Bernard (*with* Zeron, Eduardo S.) A Laplace transform algorithm for the volume of a convex polytope. (English summary) **2005m:65048**
Mikula, Karol *see* **Beneš, Michal et al., 2005f:65037**
Zeron, Eduardo S. *see* **Lasserre, Jean-Bernard, 2005m:65048**

Items with secondary classifications in 65D99

Agarwal, Pankaj K. (*with* Edelsbrunner, Herbert; Wang, Yusu) Computing the writhing number of a polygonal knot. (English summary) **2005e:57008**
Edelsbrunner, Herbert *see* **Agarwal, Pankaj K. et al., 2005e:57008**
Rodríguez Asomoza, J. *see* **Rosas Romero, R., (2005b:65003)**
Rosas Romero, R. (*with* Rodríguez Asomoza, J.) Estimation of non-rigid deformations in the three-dimensional space and time domains in medical images. (English summary) (*see* **2005b:65003**)
Wang, Yusu *see* **Agarwal, Pankaj K. et al., 2005e:57008**

65E05 Numerical methods in complex analysis (potential theory, etc.) {For numerical methods in conformal mapping, see 30C30.}

Gubkina, E. V. (*with* Monakhov, V. N.) Numerical approximation of contact problems of fluid filtration. (Russian. Russian summary) **2005k:65055**
Khubezhty, Sh. S. On the numerical solution of the Dirichlet problem by the local canonical partition method. (Russian. Russian summary) **2005e:65028**
Monakhov, V. N. *see* **Gubkina, E. V., 2005k:65055**

Items with secondary classifications in 65E05

Amano, Kaname (*with* Okano, Dai; Ogata, Hidenori; Sugihara, Masaaki) Numerical conformal mappings of unbounded multiply-connected domains using the charge simulation method. (English summary) **2005d:30009**
Benchama, Noureddine (*with* DeLillo, Thomas K.) A brief overview of Fornberg-like methods for conformal mapping of simply and multiply connected regions. (English summary) **2005k:30011**

Bonciani, Damiano (*with* Vlacci, Fabio) Some remarks on Schwarz-Christoffel transformations from the unit disk to a regular polygon and their numerical computation. (English summary) **2005j:30015**
Bourchtein, Andrei (*with* Bourchtein, Ludmila; Oliveira, E. R.) General approach to conformal mappings used in atmospheric modeling. (English summary) **2005f:86002**
Bourchtein, Ludmila *see* **Bourchtein, Andrei et al., 2005f:86002**
Čanak, Miloš *see* **Stefanovska, Liljana et al., 2005e:34269**
Collins, Charles R. (*with* Driscoll, Tobin A.; Stephenson, Kenneth) Curvature flow in conformal mapping. (English summary) **2005g:52055**
DeLillo, Thomas K. *see* **Benchama, Noureddine, 2005k:30011**
Driscoll, Tobin A. *see* **Collins, Charles R. et al., 2005g:52055**
Farouki, Rida T. (*with* Han, Chang Yong) Computation of Minkowski values of polynomials over complex sets. (English summary) **2005b:30005**
Fokas, A. S. *see* **Fulton, S. R. et al., 2005d:65216**
Fulton, S. R. (*with* Fokas, A. S.; Xenophontos, C. A.) An analytical method for linear elliptic PDEs and its numerical implementation. (English summary) **2005d:65216**
Han, Chang Yong *see* **Farouki, Rida T., 2005b:30005**
Ogata, Hidenori *see* **Amano, Kaname et al., 2005d:30009**
Okano, Dai *see* **Amano, Kaname et al., 2005d:30009**
Oliveira, E. R. *see* **Bourchtein, Andrei et al., 2005f:86002**
Papamichael, Nicolas Dieter Gaier's contributions to numerical conformal mapping. (English summary) **2005f:30017**
Protić, Ljubomir *see* **Stefanovska, Liljana et al., 2005e:34269**
Stefanovska, Liljana (*with* Protić, Ljubomir; Čanak, Miloš) On some approximative methods for solving Vekua complex differential equation. (English summary) **2005e:34269**
Stephenson, Kenneth *see* **Collins, Charles R. et al., 2005g:52055**
Sugihara, Masaaki *see* **Amano, Kaname et al., 2005d:30009**
Vlacci, Fabio *see* **Bonciani, Damiano, 2005j:30015**
Wegmann, Rudolf Methods for numerical conformal mapping. **2005m:30008**
Xenophontos, C. A. *see* **Fulton, S. R. et al., 2005d:65216**

65Fxx Numerical linear algebra

Items with secondary classifications in 65Fxx

Čížek, Pavel[2] *see* **Čížková, Lenka, (2005g:62004)**
Čížková, Lenka (*with* Čížek, Pavel[2]) Numerical linear algebra. (*see* **2005g:62004**)
Sewell, Granville ★ Computational methods of linear algebra.

65F05 Direct methods for linear systems and matrix inversion

Alonso, Pedro (*with* Cortina, Raquel; Díaz, Irene; Ranilla, José) Neville elimination: a study of the efficiency using checkerboard partitioning. (English summary) **2005g:65045**
Awrejcewicz, Jan (*with* Krys′ko, V. A.; Krysko, Anton V.) On the economical solution method for a system of linear algebraic equations. **2005i:65033**
Bai, Yihua (*with* Gansterer, Wilfried N.; Ward, Robert C.) Block tridiagonalization of "effectively" sparse symmetric matrices. (English summary) **2005i:65034**
Baumann, Markus (*with* Fleischmann, Peter[2]; Mutzbauer, Otto) Double ordering and fill-in for the LU factorization. (English summary) **2005f:65038**
Baykara, N. Abdülbaki *see* **Kanal, M. Engin et al., (2005g:00019)**
Caron, Eddy (*with* Utard, Gil) On the performance of parallel factorization of out-of-core matrices. (English summary) **2005a:65028**
Chandrasekaran, Shivkumar (*with* Gu, Ming[1]) Fast and stable algorithms for banded plus semiseparable systems of linear equations. (English summary) **2005f:65039**
Chawla, Man M. (*with* Khazal, Reyadh R.) A parallel householder method for banded linear systems. (*see* **2005m:00008**)
— *see also* **Khazal, Reyadh R., 2005f:65042**
Chen, Jianping Implementation of recursive algorithm for LU factorization. (Chinese. English summary)
Ching, Wai Ki (*with* Ng, Michael K.; Yuen, Wai-On) A direct method for block-Toeplitz systems with applications to re-manufacturing systems. (English summary) (*see* **2005g:65008**)
— *see also* **Lin, Fu-Rong et al., 2005g:65047**
Čiegis, Raimondas (*with* Starikovičius, V.; Waśniewski, Jerzy) Performance prediction tool for parallel Gaussian elimination algorithm. (English summary) (*see* **2005c:65004**)
Climent, Joan-Josep (*with* Perea, Carmen; Tortosa, Leandro; Zamora, Antonio) An overlapped two-way method for solving tridiagonal linear systems in a BSP computer. (English summary)
Cortina, Raquel *see* **Alonso, Pedro et al., 2005g:65045**
Davis, Timothy A.[1] (*with* Gilbert, John Russell; Larimore, Stefan I.; Ng, Esmond G.) A column approximate minimum degree ordering algorithm. (English summary) **2005i:65035**
— (*with* Gilbert, John Russell; Larimore, Stefan I.; Ng, Esmond G.) Algorithm 836: COLAMD, a column approximate minimum degree ordering algorithm. (English summary)
Demiralp, Metin *see* **Kanal, M. Engin et al., (2005g:00019)**
Díaz, Irene *see* **Alonso, Pedro et al., 2005g:65045**
Egner, Sebastian (*with* Püschel, Markus) Symmetry-based matrix factorization. (English summary) **2005e:65029**
El-Mikkawy, M. E. A. A new computational algorithm for solving periodic tri-diagonal linear systems. (English summary)
El-Sayed, Salah M. A direct method for solving circulant tridiagonal block systems of linear equations. (English summary) **2005m:65049**
Fang, Mao-zhong *see* **Wang, Guo Rong[1]**
Fleischmann, Peter[2] *see* **Baumann, Markus et al., 2005f:65038**
Gansterer, Wilfried N. *see* **Bai, Yihua et al., 2005i:65034**
Gemignani, Luca (*with* Lotti, Grazia) Rounding error analysis in solving M-matrix linear systems of block Hessenberg form. (English summary) **2005g:65046**
Gilbert, John Russell *see* **Davis, Timothy A.[1] et al., 2005i:65035**
Gould, Nicholas I. M. (*with* Scott, Jennifer A.) A numerical evaluation of HSL packages for the direct solution of large sparse, symmetric linear systems of equations. (English summary) **2005i:65036**
Gu, Ming[1] (*with* Miranian, L.) Strong rank revealing Cholesky factorization. (English summary) **2005b:65027**
— *see also* **Chandrasekaran, Shivkumar, 2005f:65039**
Haridas, Satchidanand G. (*with* Ziavras, Sotirios G.) FPGA implementation of a Cholesky algorithm for a shared-memory multiprocessor architecture. (English summary)
Heinig, Georg (*with* Rost, Karla) New fast algorithms for Toeplitz-plus-Hankel matrices. (English summary) **2005f:65040**
— (*with* Rost, Karla) Split algorithms for Hermitian Toeplitz matrices with arbitrary rank profile. (English summary) **2005i:65037**
— (*with* Rost, Karla) Split algorithms for skewsymmetric Toeplitz matrices with arbitrary rank profile. (English summary) **2005f:65041**
— (*with* Rost, Karla) Split algorithms for symmetric Toeplitz matrices with arbitrary rank profile. (English summary) **2005k:65056**
Jiang, Zhao Lin (*with* Liu, San Yang; Zhang, Sheng Gui[1]) Fast algorithms for finding the inverses and generalized inverses of permutation factor circulant matrices. (Chinese. English summary) **2005e:65030**
Kanal, M. Engin (*with* Baykara, N. Abdülbaki; Demiralp, Metin) A novel approach to the numerical inversion algorithm for adjacent pentadiagonal matrices. (English summary) (*see* **2005g:00019**)
Kaya, Doğan (*with* Wright, Ken) Parallel algorithms for LU decomposition on a shared memory multiprocessor. (English summary)
Khazal, Reyadh R. (*with* Chawla, Man M.) A parallel Cholesky algorithm for the solution of symmetric linear systems. (English summary) **2005f:65042**
— *see also* **Chawla, Man M., (2005m:00008)**
Kim, Kyungsup A fast factorization algorithm for a confluent Cauchy matrix. (English summary) **2005i:65038**
Kolev, Lubomir V. Solving linear system whose elements are nonlinear functions of intervals. (English summary)
Krysko, Anton V. *see* **Awrejcewicz, Jan et al., 2005i:65033**
Krys′ko, V. A. *see* **Awrejcewicz, Jan et al., 2005i:65033**
Lakshmikantham, V. (*with* Sen, Syamal Kumar; Mohanty, A.) Error in error-free computation for linear system. (English summary) **2005k:65057**
Larimore, Stefan I. *see* **Davis, Timothy A.[1] et al., 2005i:65035**
Lin, Fu-Rong (*with* Ching, Wai Ki; Ng, Michael K.) Fast inversion of triangular Toeplitz matrices. (English summary) **2005g:65047**
Liu, San Yang *see* **Jiang, Zhao Lin et al., 2005e:65030**
Lotti, Grazia *see* **Gemignani, Luca, 2005g:65046**
Mastronardi, Nicola *see* **Van Camp, Ellen et al., 2005a:65029**
Miranian, L. *see* **Gu, Ming[1], 2005b:65027**
Mohanty, A. *see* **Lakshmikantham, V. et al., 2005k:65057**
Mutzbauer, Otto *see* **Baumann, Markus et al., 2005f:65038**
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Ng, Michael K. *see* **Lin, Fu-Rong et al., 2005g:65047** *and* **Ching, Wai Ki et al., (2005g:65008)**
Păvăloiu, Ion On approximating the inverse of a matrix. (English summary) **2005m:65050**
Peña, Juan Manuel Scaled pivots and scaled partial pivoting strategies. (English summary) **2005e:65031**
Perea, Carmen *see* **Climent, Joan-Josep et al.**
Popoviciu, Ioan Parallel methods for solving the linear algebraic systems. (English summary) **2005k:65058**
Püschel, Markus *see* **Egner, Sebastian, 2005e:65029**
Ranilla, José *see* **Alonso, Pedro et al., 2005g:65045**
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Rost, Karla *see* **Heinig, Georg, 2005f:65040; 2005f:65041; 2005i:65037** *and* **2005k:65056**
Rotkin, Vladimir (*with* Toledo, Sivan) The design and implementation of a new out-of-core sparse Cholesky factorization method. (English summary) **2005b:65028**
Salkuyeh, Davod Khojasteh (*with* Toutounian, Faezeh) A block version algorithm to approximate inverse factors. (English summary) **2005i:65039**
Schenk, O. (*with* van der Vorst, Henk A.) Solution of linear systems.
Scott, Jennifer A. *see* **Gould, Nicholas I. M., 2005i:65036**
Sen, Syamal Kumar *see* **Lakshmikantham, V. et al., 2005k:65057**
Starikovičius, V. *see* **Čiegis, Raimondas et al., (2005c:65004)**
Stewart, Michael A superfast Toeplitz solver with improved numerical stability. (English summary) **2005k:65059**
Strazdins, Peter E. Issues in the design of scalable out-of-core dense symmetric indefinite factorization algorithms. (English summary) (*see* **2005g:00014**)
Toledo, Sivan *see* **Rotkin, Vladimir, 2005b:65028**
Tortosa, Leandro *see* **Climent, Joan-Josep et al.**
Toutounian, Faezeh *see* **Salkuyeh, Davod Khojasteh, 2005i:65039**
Utard, Gil *see* **Caron, Eddy, 2005a:65028**
Van Barel, Marc *see* **Van Camp, Ellen et al., 2005a:65029**
Van Camp, Ellen (*with* Mastronardi, Nicola; Van Barel, Marc) Two fast algorithms for solving diagonal-plus-semiseparable linear systems. (English summary) **2005a:65029**
van der Vorst, Henk A. *see* **Schenk, O.**
Wang, Guo Rong[1] (*with* Fang, Mao-zhong) A more condensed Cramer rule for solution of the general restricted matrix equation. (English and Chinese summaries)
Wang, Wei Guo *see* **Zhao, Jinxi et al., 2005a:65030**
Ward, Robert C. *see* **Bai, Yihua et al., 2005i:65034**
Waśniewski, Jerzy *see* **Čiegis, Raimondas et al., (2005c:65004)**
Wright, Ken *see* **Kaya, Doğan**
Yeung, Man-Chung Probabilistic analysis of complex Gaussian elimination without pivoting. (English summary) **2005c:65020**
Yuen, Wai-On *see* **Ching, Wai Ki et al., (2005g:65008)**
Zamora, Antonio *see* **Climent, Joan-Josep et al.**
Zhang, Sheng Gui[1] *see* **Jiang, Zhao Lin et al., 2005e:65030**
Zhao, Jinxi (*with* Wang, Wei Guo; Ren, Weiqing) Stability of the matrix factorization for solving block tridiagonal symmetric indefinite linear systems. (English summary)

2005a:65030

Ziavras, Sotirios G. *see* **Haridas, Satchidanand G.**

Items with secondary classifications in 65F05

Almeida Benítez, Pedro Ramón (*with* Franco Brañas, José Ramón) Minimum degree algorithm for block-factorized sparse linear systems. (Spanish. English and Spanish summaries) **2005i:65067**

Amestoy, Patrick R. (*with* Duff, Iain S.; Vömel, Christof) Task scheduling in an asynchronous distributed memory multifrontal solver. (English summary) **2005j:65045**

Bianco, Mauro A high-performance UL factorization for the frontal method. (English summary) (*see* **2005g:65008**)

Cai, Jianfeng *see* **Wei, Yi Min et al.**, 2005g:15013

Ching, Wai Ki *see* **Wen, You-Wei et al.**

Davis, Timothy A.[1] A column pre-ordering strategy for the unsymmetric-pattern multifrontal method. (English summary) **2005b:65051**

— Algorithm 832: UMFPACK V4.3—an unsymmetric-pattern multifrontal method. (English summary)

van den Driessche, P. *see* **Johnson, Charles Royal et al.**, 2005c:15023

Duff, Iain S. (*with* Scott, Jennifer A.) A parallel direct solver for large sparse highly unsymmetric linear systems. (English summary) **2005b:65052**

— MA57—a code for the solution of sparse symmetric definite and indefinite systems. (English summary)

— *see also* **Amestoy, Patrick R. et al.**, 2005j:65045

Favati, P. (*with* Lotti, Grazia; Menchi, O.) Non-recursive solution of sparse block Hessenberg systems. (English summary) **2005b:15006**

Franco Brañas, José Ramón *see* **Almeida Benítez, Pedro Ramón**, 2005i:65067

Hackbusch, Wolfgang Direct domain decomposition using the hierarchical matrix technique. (*see* **2005f:65003**)

Jin, Yan Fei *see* **Xu, Meng[2] et al.**, 2005m:15032

Johnson, Charles Royal (*with* Olesky, D. D.; van den Driessche, P.) Erratum: "Successively ordered elementary bidiagonal factorization" [SIAM J. Matrix Anal. Appl. **22** (2001), no. 4, 1079–1088 (electronic); MR1824058 (2001m:15035)]. **2005c:15023**

Kincaid, David R. *see* **Pilipchuk, Ludmila A. et al.**, 2005a:65045

Lai, Minghorng *see* **Pilipchuk, Ludmila A. et al.**, 2005a:65045

Liu, Hong[8] *see* **Wen, You-Wei et al.**

Lotti, Grazia *see* **Favati, P. et al.**, 2005b:15006

Malakhouskaya, Yulia V. *see* **Pilipchuk, Ludmila A. et al.**, 2005a:65045

Menchi, O. *see* **Favati, P. et al.**, 2005b:15006

Nazin, S. A. *see* **Polyak, Boris Teodorovich**, 2005d:65073

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Nguyen, Tri *see* **Strang, Gilbert**, 2005m:15015

Olesky, D. D. *see* **Johnson, Charles Royal et al.**, 2005c:15023

Pilipchuk, Ludmila A. (*with* Malakhouskaya, Yulia V.; Kincaid, David R.; Lai, Minghorng) Algorithms of solving large sparse underdetermined linear systems with embedded network structure. (English summary) **2005a:65045**

Polyak, Boris Teodorovich (*with* Nazin, S. A.) Interval solutions for interval algebraic equations. (English summary) **2005d:65073**

Reif, John H. Efficient parallel factorization and solution of structured and unstructured linear systems. (English summary) **2005m:65324**

Scott, Jennifer A. Multilevel hybrid spectral element ordering algorithms. (English summary)

— *see also* **Duff, Iain S.**, 2005b:65052

Shi, Zhong Ke *see* **Xu, Meng[2] et al.**, 2005m:15032

Strang, Gilbert (*with* Nguyen, Tri) The interplay of ranks of submatrices. (English summary) **2005m:15015**

Tan, Chih Jeng Kenneth Antithetic Monte Carlo linear solver. (English summary) **2005a:65004**

Vömel, Christof *see* **Amestoy, Patrick R. et al.**, 2005j:65045

Wei, Yi Min (*with* Cai, Jianfeng; Ng, Michael K.) Computing Moore-Penrose inverses of Toeplitz matrices by Newton's iteration. (English summary) **2005g:15013**

Wen, You-Wei (*with* Ng, Michael K.; Ching, Wai Ki; Liu, Hong[8]) A note on the stability of Toeplitz matrix inversion formulas. (English summary)

Xu, Meng[2] (*with* Xu, Zhong; Shi, Zhong Ke; Jin, Yan Fei) A fast triangular factorization algorithm for the inversion of Toeplitz type matrices. (Chinese. English and Chinese summaries) **2005m:15032**

Xu, Zhong *see* **Xu, Meng[2] et al.**, 2005m:15032

65F10 Iterative methods for linear systems [see also 65N22]

Abe, Kuniyoshi (*with* Zhang, Shao-Liang; Mitsui, Taketomo; Jin, Cheng-Hai) A variant of the ORTHOMIN(2) method for singular linear systems. (English summary) **2005k:65060**

— (*with* Zhang, Shao-Liang) A variable preconditioning using the SOR method for GCR-like methods. (English summary) **2005m:65051**

Adams, Loyce (*with* Chartier, Timothy P.) A comparison of algebraic multigrid and geometric immersed interface multigrid methods for interface problems. (English summary) **2005m:65052**

Adams, Mark F. Algebraic multigrid methods for constrained linear systems with applications to contact problems in solid mechanics. (English summary) **2005d:65038**

Adib, Majid ABS-type methods using rank two updates. (English summary) **2005a:65031**

Allah Viranloo, Tofigh Numerical methods for fuzzy system of linear equations. (English summary) **2005h:65037**

— Successive over relaxation iterative method for fuzzy system of linear equations. (English summary)

Amini, Keyvan Solving rank one revised linear systems by the scaled ABS method. (English summary) **2005h:65038**

— (*with* Mahdavi-Amiri, N.; Peyghami, M. R.) ABS-type methods for solving full row rank linear systems using a new rank two update. (English summary) **2005h:65039**

Arioli, Mario A stopping criterion for the conjugate gradient algorithms in a finite element method framework. (English summary) **2005c:65021**

Asadi, Bahram *see* **Toutounian, Faezeh et al.**, 2005h:65055

Awanou, Gerard (*with* Lai, Ming-Jun) On convergence rate of the augmented Lagrangian algorithm for nonsymmetric saddle point problems. (English summary) **2005m:65053**

Axelsson, Axel Ove Holger Improving additive and multiplicative preconditioners for two-level matrices by congruence transformations. (English summary) (*see* **2005i:65006**)

— (*with* Gur'eva, Ya. L.; Il'in, Valeriĭ Pavlovich) Iterative solution methods for 3D serendipity FEM. (*see* **2005i:65006**)

— A survey of algebraic multilevel iteration (AMLI) methods. (English summary) **2005d:65039**

— (*with* Bai, Zhong Zhi; Qiu, Shou-Xia) A class of nested iteration schemes for linear systems with a coefficient matrix with a dominant positive definite symmetric part. (English summary) **2005f:65043**

— (*with* Karátson, János) Superlinearly convergent CG methods via equivalent preconditioning for nonsymmetric elliptic operators. (English summary) **2005h:65040**

Ayachour, E. H. A fast implementation for GMRES method. (English summary) **2005a:65032**

Bae, Jinho (*with* Chun, Joohwan; Kailath, Thomas) The Schur algorithm applied to the design of optical multi-mirror structures. (English summary) **2005j:65025**

Bahi, Jacques M. (*with* Contassot-Vivier, Sylvain; Couturier, Raphaël) Evaluation of the asynchronous iterative algorithms in the context of distant heterogeneous clusters. (English summary)

Bai, Zhao-jun (*with* Su, Yang Feng) Second-order Krylov subspace and Arnoldi procedure. (English summary)

Bai, Zhong Zhi (*with* Ng, Michael K.) Preconditioners for nonsymmetric block Toeplitz-like-plus-diagonal linear systems. (English summary) **2005d:65040**

— (*with* Li, Gui Qing; Lu, Lin Zhang) Combinative preconditioners of modified incomplete Cholesky factorization and Sherman-Morrison-Woodbury update for self-adjoint elliptic Dirichlet-periodic boundary value problems. (English summary) **2005g:65048**

— Construction and analysis of structured preconditioners for block two-by-two matrices. (English summary)

— (*with* Golub, Gene H.; Pan, Jian-Yu) Preconditioned Hermitian and skew-Hermitian splitting methods for non-Hermitian positive semidefinite linear systems. (English summary) **2005h:65041**

— (*with* Golub, Gene H.; Lu, Lin Zhang; Yin, Jun-Feng) Block triangular and skew-Hermitian splitting methods for positive-definite linear systems. (English summary) **2005m:65054**

— *see also* **Axelsson, Axel Ove Holger et al.**, 2005f:65043 *and* **Wang, Li[5]**, 2005f:65054

Bängtsson, Erik (*with* Neytcheva, Maya) Algebraic preconditioning versus direct solvers for dense linear systems as arising in crack propagation problems. (English summary)

Bantegnies, F. (*with* Brezinski, Claude) The multiparameter conjugate gradient algorithm. (English summary) **2005m:65055**

Beauwens, Robert Iterative solution methods. (English summary)

Bebendorf, M. Hierarchical LU decomposition-based preconditioners for BEM. (English summary) **2005m:65056**

Beckermann, Bernhard (*with* Kuijlaars, Arno B. J.) On the sharpness of an asymptotic error estimate for conjugate gradients. (English summary) **2005c:65022**

— Image numérique, GMRES et polynômes de Faber. (English and French summaries) [Numerical range, GMRES and Faber polynomials]

Belokon, T. V. *see* **Krukier, Lev A. et al.**, 2005m:65064

Benzi, Michele (*with* Gander, Martin J.; Golub, Gene H.) Optimization of the Hermitian and skew-Hermitian splitting iteration for saddle-point problems. (English summary) **2005e:65032**

— (*with* Golub, Gene H.) A preconditioner for generalized saddle point problems. (English summary) **2005j:65026**

— *see also* **Simoncini, Valeria**, 2005k:65074

Bertaccini, Daniele (*with* Ng, Michael K.) Band-Toeplitz preconditioned GMRES iterations for time-dependent PDEs. (English summary) **2005e:65033**

Bertoluzza, Silvia Substructuring preconditioners for the three fields domain decomposition method. (English summary) **2005f:65044**

Bini, Dario A. (*with* Favati, P.; Menchi, O.) A family of modified regularizing circulant preconditioners for two-levels Toeplitz systems. (English summary) **2005i:65040**

Bjelica, Momčilo *see* **Lakić, Slobodan**

Blank, Luise Preconditioning via a Schur complement method: an application in state estimation. (English summary) **2005b:65029**

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Bollhöfer, Matthias (*with* Mehrmann, Volker) Some convergence estimates for algebraic multilevel preconditioners. (English summary) **2005d:65041**

Boman, Erik G. (*with* Hendrickson, Bruce A.) Support theory for preconditioning. (English summary) **2005g:65049**

— (*with* Chen, Doron; Hendrickson, Bruce A.; Toledo, Sivan) Maximum-weight-basis preconditioners. (English summary) **2005k:65061**

Borcea, Liliana *see* **Druskin, Vladimir et al.**, 2005k:65062

Bosner, Nela Numerical stability of Krylov subspace iterative methods for solving linear systems. (English summary) **2005c:65023**

Brandts, Jan Conjugate gradients and finite elements—a golden jubilee. (*see* **2005c:65003**)

— (*with* van der Vorst, Henk A.) The convergence of Krylov methods and Ritz values. **2005i:65041**

Brezina, M. (*with* Falgout, Robert D.; MacLachlan, S.; Manteuffel, Thomas A.; McCormick, Stephen F.; Ruge, J.) Adaptive smoothed aggregation (αSA). (English summary) **2005g:65050**

Brezinski, Claude *see* **Bantegnies, F.**, 2005m:65055

Bru, Rafael (*with* Cerdán, J.; Marín, Josefa; Mas, José) Preconditioning sparse non-symmetric linear systems with the Sherman-Morrison formula. (English summary) **2005g:65051**

— (*with* Pedroche Sánchez, Francisco; Szyld, Daniel B.) Overlapping additive and multiplicative Schwarz iterations for H-matrices. (English summary) **2005i:65042**

Brualdi, Richard A. From the editor-in-chief. Errata to: "Comparisons of spectral radii and the theorem of Stein-Rosenberg" [Linear Algebra Appl. **348** (2002), 283–287; MR1902133 (2003d:65026)] by W. Li, L. Elsner and L. Lu.

Buchholz, Peter (*with* Dayar, Tuğrul) Block SOR preconditioned projection methods for Kronecker structured Markovian representations. (English summary)
Bücker, H. Martin (*with* Sauren, Manfred) On using Hölder norms in the quasi-minimal residual approach. (English summary) **2005g:65052**
Buriev, T. On the construction and solution of large systems of algebraic equations. (Russian. English, Russian and Uzbek summaries) **2005f:65045**
Buzdin, A. (*with* Wittum, Gabriel) Two-frequency decomposition. (English summary) **2005d:65042**
Bychenkov, Yu. V. (*with* Chizhonkov, E. V.) On optimization of one symmetric algorithm for saddle point problem. (English summary) (*see* **2005i:65006**)
Byrne, Charles Choosing parameters in block-iterative or ordered subset reconstruction algorithms. (English summary) **2005j:65027**
Cai, Xiao-Chuan (*with* Dryja, Maksymilian; Sarkis, Marcus V.) Restricted additive Schwarz preconditioners with harmonic overlap for symmetric positive definite linear systems. (English summary) **2005b:65030**
— (*with* Dryja, Maksymilian; Sarkis, Marcus V.) A restricted additive Schwarz preconditioner with harmonic overlap for symmetric positive definite linear systems. (English summary) **2005i:65043**
Cao, Zhi-Hao Semiconvergence of extrapolated iterative method for singular linear systems. (English summary) **2005g:65053**
Carpentieri, Bruno (*with* Duff, Iain S.; Giraud, Luc) A class of spectral two-level preconditioners. (English summary) **2005g:65054**
— (*with* Duff, Iain S.; Giraud, Luc; Magolu monga Made, M.) Sparse symmetric preconditioners for dense linear systems in electromagnetism. (English summary) **2005h:65042**
Cecílio, W. A. G. *see* **Yuan, Jin Yun et al., 2005d:65052**
Cerdán, J. *see* **Bru, Rafael et al., 2005g:65051**
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Chen, Doron *see* **Boman, Erik G. et al., 2005k:65061**
Chen, Gui Zhi (*with* Jia, Zhong Xiao) Theoretical and numerical comparisons of GMRES and WZ-GMRES. (English summary) **2005d:65043**
Chen, Heng Xin Convergence and divergence theorems for the MPSD iterative method. (Chinese. English and Chinese summaries)
Chen, Mei-Qin (*with* Li, Xiezhang) The superiority of a new type (2, 2)-step iterative method over the related Chebyshev method. (English summary) **2005j:65028**
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Cheng, Che-Man (*with* Jin, Xiao-Qing) Some stability properties of T. Chan's preconditioner. (English summary)
Chi, Li Hua *see* **Liu, Jie et al., 2005c:65026**
Chi, Xue Bin *see* **Gu, Tong Xiang et al.**
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Chow, Edmond Ten-Fu *see* **Li, Na^1 et al., 2005g:65060**
Chun, Joohwan *see* **Bae, Jinho et al., 2005j:65025**
Clees, Tanja (*with* Stüben, Klaus) Algebraic multigrid for industrial semiconductor device simulation. (English summary) (*see* **2005a:65001**)
Climent, Joan-Josep (*with* Perea, Carmen; Tortosa, Leandro; Zamora, Antonio) A BSP recursive divide and conquer algorithm to solve a tridiagonal linear system. (English summary) **2005e:65034**
Codevico, Gianni (*with* Pan, Victor Ya.; Van Barel, Marc) Newton-like iteration based on a cubic polynomial for structured matrices. (English summary) **2005m:65057**
— *see also* **Pan, Victor Ya. et al., 2005g:65064**
Consta, A. A. (*with* Missirlis, N. M.; Tzaferis, F. I.) The local modified extrapolated Gauss-Seidel (LMEGS) method. (English summary) **2005i:65044**
Contassot-Vivier, Sylvain *see* **Bahi, Jacques M. et al.**
Couturier, Raphaël *see* **Bahi, Jacques M. et al.**
Cui, Mingrong Analysis of iterative algorithms of Uzawa type for saddle point problems. (English summary) **2005e:65035**
Cui, Wei (*with* Zeng, Xian Wen; Zhao, Guo Wei) The MIMD algorithm of q-nary tree model for band systems of linear algebraic equations. (Chinese. English and Chinese summaries)
Dahleh, Mohammed A. *see* **Salapaka, S. et al., 2005k:65072**
Dai, Min^2 (*with* Guo, Yan Ling; Shih, Tsi Min; Wang, Rui He) Implementation of the relaxed ILU preconditioner to reservoir simulators. (Chinese. English summary)
Dall'Osso, Aldo An iterative back substitution algorithm for the solution of tridiagonal matrix systems with fringes. (English summary) **2005f:65046**
Darvishi, Mohammad Taghi The best values of parameters in accelerated successive overrelaxation methods. (English summary)
Dax, Achiya A modified iterative refinement scheme. (English summary) **2005e:65036**
Dayar, Tuğrul *see* **Buchholz, Peter**
D'Azevedo, E. F. (*with* Messer, B.; Mezzacappa, A.; Liebendörfer, M.) An ADI-like preconditioner for Boltzmann transport. (English summary) **2005j:65029**
Dekker, K. Partitioned-GMRES in domain decomposition with approximate subdomain solution. (English summary) **2005b:65031**
Ding, Feng^2 (*with* Chen, Tong Wen) Iterative least-squares solutions of coupled Sylvester matrix equations. (English summary) **2005i:65045**
Druskin, Vladimir (*with* Borcea, Liliana; Knizhnerman, Leonid) On the sensitivity of Lanczos recursions to the spectrum. (English summary) **2005k:65062**
Dryja, Maksymilian *see* **Cai, Xiao-Chuan et al., 2005b:65030** *and* **2005i:65043**
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Duintjer Tebbens, Erik Jurjen An application of the Shermann-Morrison formula to the GMRES method. **2005g:65055**
El Guennouni, A. (*with* Jbilou, K.; Sadok, H.) The block Lanczos method for linear systems with multiple right-hand sides. (English summary) **2005e:65037**
(Elsner, Ludwig) *see* **Brualdi, Richard A.**
van den Eshof, Jasper (*with* Sleijpen, Gerard L. G.) Accurate conjugate gradient methods for families of shifted systems. (English summary) **2005c:65024**
— (*with* Sleijpen, Gerard L. G.) Inexact Krylov subspace methods for linear systems. (English summary) **2005i:65046**
— (*with* Sleijpen, Gerard L. G.; van Gijzen, Martin B.) Relaxation strategies for nested Krylov methods. (English summary) **2005m:65058**
Estatico, Claudio A classification scheme for regularizing preconditioners, with application to Toeplitz systems. (English summary) **2005j:65030**
Evans, David John^1 Block iterative methods for reduced systems of linear equations. (English summary) (*see* **2005m:00008**)
— The generalised coupled alternating group explicit (CAGE) method. (English summary) (*see* **2005m:00007**)
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— *see also* **Brezina, M. et al., 2005g:65050**
Fang, Min *see* **Zhang, Zhen Yue et al., 2005i:65053**
Fang, Xi Ming Conditions for the convergence of a modified Gauss-Seidel method. (Chinese. English and Chinese summaries)
Farhat, Charbel (*with* Li, Jing-Rebecca) An iterative domain decomposition method for the solution of a class of indefinite problems in computational structural dynamics. (English summary)
Favati, P. *see* **Bini, Dario A. et al., 2005i:65040**
Finogenov, S. A. *see* **Lebedev, V. I., 2005i:65050**
Fish, Jacob *see* **Waisman, H. et al., 2005e:65046**
Ford, Judith M. A black box at the end of the rainbow: searching for the perfect preconditioner. (English summary) **2005d:65044**
— An improved discrete wavelet transform preconditioner for dense matrix problems. (English summary) **2005e:65038**
— (*with* Tyrtyshnikov, E. E.) Combining Kronecker product approximation with discrete wavelet transforms to solve dense, function-related linear systems. (English summary) **2005f:65047**
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Gander, Martin J. *see* **Benzi, Michele et al., 2005e:65032**
Gao, Zhong Xi (*with* Huang, Ting-Zhu) Estimate for error of the AOR iterative method. (English and Chinese summaries)
van Gijzen, Martin B. *see* **van den Eshof, Jasper et al., 2005m:65058**
Ginkin, V. P. (*with* Troyanova, N. M.; Novikov, P. V.) A new variant of the incomplete factorization method for solving two-dimensional equations of elliptic type with nonsymmetric matrices. (Russian. English and Russian summaries) **2005h:65043**
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Gorelova, M. V. (*with* Chizhonkov, E. V.) On the solution of saddle problems by methods with model saddle operators on the upper layer. (Russian) **2005a:65033**
Gu, Gui Ding (*with* Zhu, Wen Yue) Seed projection methods for solving unsymmetric shifted systems with multiple right-hand sides. (Chinese. English summary) **2005m:65059**
Gu, Tong Xiang (*with* Chi, Xue Bin; Liu, Xing Ping) AINV and BILUM preconditioning techniques. (Chinese. English and Chinese summaries)
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— (*with* Souhar, O.) Multilevel block ILU preconditioner for sparse nonsymmetric M-matrices. (English summary) **2005a:65034**
— (*with* Souhar, O.) The effect of block red-black ordering on block ILU preconditioner for sparse matrices. (English summary) **2005h:65044**
Guo, Yan Ling *see* **Dai, Min^2 et al.**
Gur'eva, Ya. L. *see* **Axelsson, Axel Ove Holger et al., (2005i:65006)**
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Hadjidimos, A. An extended compact profile iterative method criterion for sparse H-matrices. (English summary) **2005g:65056**
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Hirano, Hiroyuki (*with* Yoshida, Hideto; Ozoe, Hiroyuki; Okamoto, Naotaka) A study on preconditioning iterative methods and relativity of pressure in the numerical calculation of fluid flow. (English summary) **2005k:65064a**
— (*with* Yoshida, Hideto; Ozoe, Hiroyuki; Okamoto, Naotaka) Erratum to: "A study on preconditioning iterative methods and relativity of pressure in the numerical calculation of fluid flow" [Numer. Methods Partial Differential Equations **20** (2004), no. 5, 789–802; MR2076348 (2005k:65064a)]. **2005k:65064b**
Holland, Ruth M. (*with* Wathen, Andrew J.; Shaw, Gareth J.) Sparse approximate inverses and target matrices. (English summary) **2005m:65060**
Hu, Qi Ya (*with* Shi, Zhong-Ci; Yu, De Hao) Efficient solvers for saddle-point problems arising from domain decompositions with Lagrange multipliers. (English summary) **2005h:65045**
Hu, Qing Feng *see* **Liu, Jie et al., 2005c:65026**
Hu, Xi Yan *see* **Peng, Ya Xin et al., 2005j:65034**
Huang, Ting-Zhu (*with* Shen, Shu-Qian; Li, Hou-Biao) On generalized H-matrices. (English summary) **2005i:65049**
— *see also* **Li, Ji Cheng, 2005k:65069**; **Liu, Fu Ti, 2005m:65067**; **Yun, Jae Heon** *and* **Gao, Zhong Xi**
Huckle, Thomas (*with* Serra Capizzano, Stefano; Tablino Possio, Cristina) Preconditioning strategies for Hermitian indefinite Toeplitz linear systems. (English summary) **2005f:65048**
— (*with* Serra Capizzano, Stefano; Tablino Possio, Cristina) Preconditioning strategies for non-Hermitian Toeplitz linear systems. (English summary) **2005m:65061**
Huhtanen, Marko Aspects of nonnormality for iterative methods. (English summary) **2005h:65046**
Ilić, Miloš (*with* Turner, Ian W.) Krylov subspaces and the analytic grade. (English summary) **2005k:65065**
Il'in, Valeriĭ Pavlovich *see* **Axelsson, Axel Ove Holger et al., (2005i:65006)**
Jbilou, K. (*with* Messaoudi, Abderrahim; Tabaâ, K.) Some Schur complement identities

and applications to matrix extrapolation methods. (English summary) **2005g:65057**
— *see also* **El Guennouni, A. et al., 2005e:65037**
Jia, Zhong Xiao (*with* Li, Yan Miao) A Lanczos method and a refined Lanczos method for large unsymmetric linear systems. (Chinese. English summary) **2005g:65058**
— *see also* **Chen, Gui Zhi, 2005d:65043**
Jin, Cheng-Hai *see* **Abe, Kuniyoshi et al., 2005k:65060**
Jin, Xiao-Qing (*with* Wei, Yi Min; Xu, Wei[2]) A stability property of T. Chan's preconditioner. (English summary) **2005h:65047**
— *see also* **Cheng, Che-Man**
Kailath, Thomas (*with* Olshevsky, Vadim) Displacement structure approach to discrete-trigonometric-transform based preconditioners of G. Strang type and of T. Chan type. (English summary) **2005m:65062**
— *see also* **Bae, Jinho et al., 2005j:65025**
Kakihara, Masanobu (*with* Fujino, Seiji) Convergence of quasi-robust incomplete Cholesky CG method by means of uniformed modification for diagonal entries. (Japanese. English and Japanese summaries) **2005k:65066**
Kansa, Edward J. *see* **Ling, Leevan, 2005m:65066**
Karátson, János *see* **Axelsson, Axel Ove Holger, 2005h:65040**
Kim, Eun Heui[2] *see* **Yun, Jae Heon et al., 2005b:65036**
Kincaid, David R. Celebrating fifty years of David M. Young's successive overrelaxation method. (English summary) (*see* **2005j:65003**)
Klar, Axel *see* **Seaïd, Mohammed, (2005a:65001)**
Knizhnerman, Leonid *see* **Druskin, Vladimir et al., 2005k:65062**
Konovalov, A. N. On the theory of the commutative alternating direction method. (Russian. Russian summary) **2005m:65063**
Korotov, Sergey *see* **Křížek, Michal, (2005c:65003)**
Křížek, Michal (*with* Korotov, Sergey) Geometric interpretations of conjugate gradient and related methods. (*see* **2005c:65003**)
Krukier, Boris L. *see* **Krukier, Lev A. et al., 2005m:65064**
Krukier, Lev A. (*with* Belokon, T. V.; Krukier, Boris L.) Iterative methods for linear equation systems with dominant skew-symmetric part. (English summary) **2005m:65064**
Kučera, Radek Complexity of an algorithm for solving saddle-point systems with singular blocks arising in wavelet-Galerkin discretizations. (English summary) **2005k:65067**
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Lacroix, Sébastien (*with* Vasilevskiĭ, Yu. V.; Wheeler, John Archibald; Wheeler, Mary Fanett) Iterative solution methods for modeling multiphase flow in porous media fully implicitly. (English summary) **2005e:65039**
Lai, Ming-Jun *see* **Awanou, Gerard, 2005m:65053**
Lakić, Slobodan (*with* Bjelica, Momčilo) On a modification of the AOR method. (English summary)
Langville, Amy N. (*with* Stewart, William J.) A Kronecker product approximate preconditioner for SANs. (English summary) **2005k:65068**
Lapshina, O. A. The use of triangular and alternating triangular preconditioners for variational-type methods. (Russian) (*see* **2005b:00029**)
Lebedev, V. I. (*with* Finogenov, S. A.) On construction of the stable permutations of parameters for the Chebyshev iterative methods. II. (English summary) **2005i:65050**
Leem, K. H. (*with* Oliveira, Suely; Stewart, David E.) Algebraic multigrid (AMG) for saddle point systems from meshfree discretizations. (English summary) **2005g:65059**
Li, Gui Qing *see* **Bai, Zhong Zhi et al., 2005g:65048**
Li, Hou-Biao *see* **Huang, Ting-Zhu et al., 2005i:65049**
Li, Ji Cheng (*with* Huang, Ting-Zhu) Preconditioning methods for Z-matrices. (Chinese. English and Chinese summaries) **2005k:65069**
Li, Jing-Rebecca *see* **Farhat, Charbel**
Li, Na[1] (*with* Saad, Youcef; Chow, Edmond Ten-Fu) Crout versions of ILU for general sparse matrices. (English summary) **2005g:65060**
Li, Ruiming (*with* Zhou, Dian) A note on the eigenvalue relationship for USAOR iterative method applied to p-cyclic matrices. (English summary) **2005e:65040**
(Li, Wen[1]) *see* **Brualdi, Richard A.**
Li, Xiao Mei *see* **Wu, Jian Ping[2] et al., 2005a:65035** *and* **Liu, Jie et al., 2005c:65026**
Li, Xiezhang *see* **Chen, Mei-Qin, 2005j:65028**
Li, Yan Miao *see* **Jia, Zhong Xiao, 2005g:65058**
Li, Yao Tang (*with* Wang, Zhuan-de) Notes on the AOR iterative method for preconditioned linear systems. (English and Chinese summaries) **2005m:65065**
Liebendörfer, M. *see* **D'Azevedo, E. F. et al., 2005j:65029**
Liesen, Jörg (*with* Tichý, Petr) The worst-case GMRES for normal matrices. (English summary) **2005d:65046**
— (*with* Strakoš, Z.) Convergence of GMRES for tridiagonal Toeplitz matrices. (English summary) **2005j:65031**
— *see also* **de Sturler, Eric, 2005m:65071**
Lin, Fu-Rong (*with* Ching, Wai Ki; Ng, Michael K.) Preconditioning regularized least squares problems arising from high-resolution image reconstruction from low-resolution frames. (English summary) **2005e:65041**
— (*with* Ching, Wai Ki) Inverse Toeplitz preconditioners for Hermitian Toeplitz systems. (English summary) **2005k:65070**
Ling, Leevan (*with* Kansa, Edward J.) A least-squares preconditioner for radial basis functions collocation methods. (English summary) **2005m:65066**
Little, Leigh (*with* Saad, Youcef; Smoch, Laurent) Block LU preconditioners for symmetric and nonsymmetric saddle point problems. (English summary) **2005c:65025**
Liu, Fu Ti (*with* Huang, Ting-Zhu) An error bound of the TOR method for a class of matrices. (Chinese. English and Chinese summaries) **2005m:65067**
Liu, Jie (*with* Chi, Li Hua; Hu, Qing Feng; Li, Xiao Mei) A QMRGCGS method for nonsymmetric linear systems. (Chinese. English summary) **2005c:65026**
Liu, Song-Tao Additive Schwarz-type preconditioner for Hermite cubic splines. (English summary) **2005g:65061**
Liu, Xin Hai *see* **Sun, Qing Ying, 2005f:65053**
Liu, Xing Ping *see* **Gu, Tong Xiang et al.**
Livne, O. E. Coarsening by compatible relaxation. (English summary) **2005d:65047**
Livshits, I. Z. An algebraic multigrid wave-ray algorithm to solve eigenvalue problems for the Helmholtz operator. (English summary) **2005e:65042**
Loghin, D. (*with* Wathen, Andrew J.) Analysis of preconditioners for saddle-point problems. (English summary) **2005h:65048**
Lötstedt, Per (*with* Nilsson, Martin[2]) A minimal residual interpolation method for linear equations with multiple right-hand sides. (English summary) **2005g:65062**
Lu, Lin Zhang *see* **Bai, Zhong Zhi et al., 2005g:65048; 2005m:65054** *and* **Brualdi, Richard A.**
MacLachlan, S. *see* **Brezina, M. et al., 2005g:65050**
Magolu monga Made, M. Performance of parallel incomplete LDL[t] factorizations for solving acoustic wave propagation problems from industry. (English summary) **2005h:65049**
— *see also* **Carpentieri, Bruno et al., 2005h:65042**
Mahdavi-Amiri, N. *see* **Amini, Keyvan et al., 2005h:65039**
Maleknejad, K. (*with* Safdari, H.) Parallel algorithm for solving linear systems arising from PDE and integral equations. (English summary) **2005e:65043**
Manteuffel, Thomas A. *see* **Brezina, M. et al., 2005g:65050**
Mardal, Kent-Andre (*with* Winther, Ragnar) Uniform preconditioners for the time dependent Stokes problem. (English summary) **2005g:65063**
Marín, Josefa *see* **Bru, Rafael et al., 2005g:65051**
Mas, José *see* **Bru, Rafael et al., 2005g:65051**
McCormick, Stephen F. *see* **Brezina, M. et al., 2005g:65050**
Mehrmann, Volker *see* **Bollhöfer, Matthias, 2005d:65041**
Meier Yang, Ulrike On the use of relaxation parameters in hybrid smoothers. (English summary) **2005b:65032**
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Messer, B. *see* **D'Azevedo, E. F. et al., 2005j:65029**
Mezzacappa, A. *see* **D'Azevedo, E. F. et al., 2005j:65029**
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Mitsui, Taketomo *see* **Abe, Kuniyoshi et al., 2005k:65060**
Mo, Ze Yao *see* **Xiao, Ying Xiong et al., 2005b:65035**
Morgan, Ronald B. Restarted block-GMRES with deflation of eigenvalues. (English summary) **2005m:65068**
Morimoto, Munenori *see* **Niki, Hiroshi et al., 2005d:65048**
Moriya, Kentaro (*with* Nodera, Takashi) The GMRES ($\leq m_{\max}$) method using the convergence test of the residual norm. (Japanese. English and Japanese summaries) **2005h:65050**
Nabben, R. (*with* Vuik, C.) A comparison of deflation and coarse grid correction applied to porous media flow. (English summary) **2005k:65071**
Nagy, James G. (*with* Palmer, Katrina) Steepest descent, CG, and iterative regularization of ill-posed problems. (English summary) **2005e:65044**
Nakajima, Kengo (*with* Okuda, Hiroshi) Parallel iterative solvers with selective blocking preconditioning for simulations of fault-zone contact. (English summary) **2005m:65069**
Neytcheva, Maya *see* **Bängtsson, Erik**
Ng, Esmond G. *see* **Yang, Chao[2] et al., 2005h:65058**
Ng, Michael K. (*with* Potts, Daniel) Circulant preconditioners for indefinite Toeplitz systems. (English summary) **2005h:65051**
— *see also* **Bai, Zhong Zhi, 2005d:65040; Bertaccini, Daniele, 2005e:65033** *and* **Lin, Fu-Rong et al., 2005e:65041**
Niki, Hiroshi (*with* Harada, Kyouji; Morimoto, Munenori; Sakakihara, Michio) The survey of preconditioners used for accelerating the rate of convergence in the Gauss-Seidel method. (English summary) **2005d:65048**
Nilsson, Martin[2] *see* **Lötstedt, Per, 2005g:65062**
Nochetto, Ricardo H. (*with* Pyo, Jae-Hong) Optimal relaxation parameter for the Uzawa method. (English summary) **2005h:65052**
Nodera, Takashi *see* **Moriya, Kentaro, 2005h:65050**
Noutsos, D. (*with* Serra Capizzano, Stefano; Vassalos, P.) Matrix algebra preconditioners for multilevel Toeplitz systems do not insure optimal convergence rate. (English summary) **2005f:65049**
— (*with* Serra Capizzano, Stefano; Vassalos, P.) A preconditioning proposal for ill-conditioned Hermitian two-level Toeplitz systems. (English summary) **2005j:65032**
Novikov, P. V. *see* **Ginkin, V. P. et al., 2005h:65043**
Nukala, Phani Kumar V. V. (*with* Simunovic, Srdan) An efficient block-circulant preconditioner for simulating fracture using large fuse networks. (English summary) **2005i:65051**
Oh, Seyoung *see* **Yun, Jae Heon et al., 2005b:65036**
Okamoto, Naotaka *see* **Hirano, Hiroyuki et al., 2005k:65064a** *and* **2005k:65064b**
Okuda, Hiroshi *see* **Nakajima, Kengo, 2005m:65069**
Oliveira, Aurelio R. L. (*with* Sorensen, D. C.) A new class of preconditioners for large-scale linear systems from interior point methods for linear programming. (English summary) **2005h:65053**
Oliveira, Suely *see* **Leem, K. H. et al., 2005g:65059**
Ol'shanskiĭ, M. A. (*with* Reusken, Arnold) Convergence analysis of a multigrid method for a convection-dominated model problem. (English summary) **2005j:65033**
Olshevsky, Vadim *see* **Kailath, Thomas, 2005m:65062**
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Palmer, Katrina *see* **Nagy, James G., 2005e:65044**
Pan, Jian-Yu *see* **Bai, Zhong Zhi et al., 2005h:65041**
Pan, Victor Ya. (*with* Van Barel, Marc; Wang, Xinmao; Codevico, Gianni) Iterative inversion of structured matrices. (English summary) **2005g:65064**
— *see also* **Codevico, Gianni et al., 2005m:65057**
Pedroche Sánchez, Francisco *see* **Bru, Rafael et al., 2005i:65042**
Peirce, A. P. *see* **Salapaka, S. et al., 2005k:65072**
Penczek, Pawel A. *see* **Yang, Chao[2] et al., 2005h:65058**
Peng, Ya Xin (*with* Hu, Xi Yan; Zhang, Lei[1]) An iteration method for the symmetric solutions and the optimal approximation solution of the matrix equation $AXB = C$. (English summary) **2005j:65034**
Pennacchio, Micol *see* **Simoncini, Valeria, 2005b:65033**

Perea, Carmen *see* **Climent, Joan-Josep et al., 2005e:65034**
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Popa, Constantin Direct and iterative Kaczmarz-like solvers. (English summary) **2005f:65050**
Potts, Daniel *see* **Ng, Michael K., 2005h:65051**
Powell, Catherine Elizabeth (*with* Silvester, David J.) Black-box preconditioning for mixed formulation of self-adjoint elliptic PDEs. (English summary) (*see* **2005a:65001**)
— (*with* Silvester, David J.) Optimal preconditioning for Raviart-Thomas mixed formulation of second-order elliptic problems. (English summary) **2005h:65054**
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Ruge, J. *see* **Brezina, M. et al., 2005g:65050**
Saad, Youcef (*with* Soulaïmani, Azzeddine; Touihri, Ridha) Variations on algebraic recursive multilevel solvers (ARMS) for the solution of CFD problems. (English summary) **2005e:65045**
— *see also* **Little, Leigh et al., 2005c:65025** *and* **Li, Na[1] et al., 2005g:65060**
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Safdari, H. *see* **Maleknejad, K., 2005e:65043**
Sakakihara, Michio *see* **Niki, Hiroshi et al., 2005d:65048**
Salapaka, S. (*with* Peirce, A. P.; Dahleh, Mohammed A.) Analysis of a circulant based preconditioner for a class of lower rank extracted systems. (English summary) **2005k:65072**
Salkuyeh, Davod Khojasteh (*with* Toutounian, Faezeh) BILUS: a block version of ILUS factorization. (English summary) **2005f:65052**
— (*with* Toutounian, Faezeh) A comparison between GMRES and global GMRES methods for solving matrix equations. (English summary)
— *see also* **Toutounian, Faezeh et al., 2005h:65055**
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Sauren, Manfred *see* **Bücker, H. Martin, 2005g:65052**
Seaïd, Mohammed (*with* Klar, Axel) Efficient preconditioning of linear systems arising from the discretization of radiative transfer equation. (English summary) (*see* **2005a:65001**)
Segal, August *see* **Vermolen, Fred J. et al., (2005c:65003)**
Serra Capizzano, Stefano Practical band Toeplitz preconditioning and boundary layer effects. (English summary) **2005d:65050**
— (*with* Tablino Possio, Cristina) Superlinear preconditioners for finite differences linear systems. (English summary) **2005k:65073**
— (*with* Tablino Possio, Cristina) Multigrid methods for multilevel circulant matrices. (English summary) **2005j:65035**
— *see also* **Huckle, Thomas et al., 2005f:65048; 2005m:65061; Noutsos, D. et al., 2005f:65049** *and* **2005j:65032**
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Shi, Pei Lin Algebraic multigrid method and multi-elimination ILU method. (Chinese. English and Chinese summaries)
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Silvester, David J. *see* **Powell, Catherine Elizabeth, 2005h:65054** *and* **(2005a:65001)**
Simoncini, Valeria (*with* Szyld, Daniel B.) Theory of inexact Krylov subspace methods and applications to scientific computing. (English summary) **2005g:65065**
— Block triangular preconditioners for symmetric saddle-point problems. (English summary) **2005c:65027**
— (*with* Pennacchio, Micol) The behavior of symmetric Krylov subspace methods for solving $Mx = (M - \gamma I)v$. (English summary) **2005b:65033**
— (*with* Benzi, Michele) Spectral properties of the Hermitian and skew-Hermitian splitting preconditioner for saddle point problems. (English summary) **2005k:65074**
Simunovic, Srdan *see* **Nukala, Phani Kumar V. V., 2005i:65051**
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Smoch, Laurent *see* **Little, Leigh et al., 2005c:65025**
Smoktunowicz, Alicja (*with* Wróbel, Iwona) Numerical stability of the Richardson second order method. (English summary) **2005m:65070**
Šolcová, Alena The founders of the conjugate gradient method. (*see* **2005c:65003**)
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Stüben, Klaus *see* **Clees, Tanja, (2005a:65001)**
de Sturler, Eric (*with* Liesen, Jörg) Block-diagonal and constraint preconditioners for nonsymmetric indefinite linear systems. I. Theory. (English summary) **2005m:65071**
Su, Yang Feng *see* **Bai, Zhao-jun**
Sun, Li Ying[1] (*with* Xue, Zhan Ao) Comparison results for the spectral radius of modified classical iterative methods for M-matrices. (Chinese. English and Chinese summaries)
— Convergence of the modified Gauss-Seidel method for H-matrices. (English and Chinese summaries)
Sun, Qing Ying (*with* Liu, Xin Hai) Global convergence results of a new three term conjugate gradient method with generalized Armijo step size rule. (Chinese. English summary) **2005f:65053**
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Tan, Min[2] (*with* Xiao, Ying Xiong; Shu, Shi) An algebraic multigrid method on anisotropic quadrilateral grid. (Chinese. English and Chinese summaries)
Tian, Linggai Properties and algorithm on preconditioned conjugate gradient method. (English summary)
Tichý, Petr *see* **Liesen, Jörg, 2005d:65046**
Toh, Kim-Chuan (*with* Phoon, Kok-Kwang; Chan, Swee-Huat) Block preconditioners for symmetric indefinite linear systems. (English summary) **2005b:65034**
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Toutounian, Faezeh (*with* Salkuyeh, Davod Khojasteh; Asadi, Bahram) Numerical implementation of the QMR algorithm by using discrete stochastic arithmetic. (English summary) **2005h:65055**
— *see also* **Salkuyeh, Davod Khojasteh, 2005f:65052**
Troyanova, N. M. *see* **Ginkin, V. P. et al., 2005h:65043**
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Vasilevskiĭ, Yu. V. A parallel CG solver based on domain decomposition and non-smooth aggregation. **2005h:65056**
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Vassilevski, Panayot S. *see* **Falgout, Robert D., 2005i:65047**
Vermolen, Fred J. (*with* Vuik, Kees; Segal, August) Deflation in preconditioned conjugate gradient methods for finite element problems. (*see* **2005c:65003**)
van der Vorst, Henk A. ★ Iterative Krylov methods for large linear systems. **2005k:65075**
— *see also* **Brandts, Jan, 2005i:65041**
Vuik, C. *see* **Nabben, R., 2005k:65071**
Vuik, Kees *see* **Vermolen, Fred J. et al., (2005c:65003)**
Waisman, H. (*with* Fish, Jacob; Tuminaro, Raymond S.; Shadid, John N.) The generalized global basis (GGB) method. (English summary) **2005e:65046**
Walker, Homer F. (*with* Yi, Sucheol) An iterative method for symmetric indefinite linear systems. (English summary) **2005d:65051**
(Wang, Chuan-Long) *see* **Yun, Jae Heon**
Wang, Jing *see* **Zhang, Zhen Yue et al., 2005i:65053**
Wang, Li[5] (*with* Bai, Zhong Zhi) Skew-Hermitian triangular splitting iteration methods for non-Hermitian positive definite linear systems of strong skew-Hermitian parts. (English summary) **2005f:65054**
— Convergence domains of AOR type iterative matrices for solving non-Hermitian linear systems. (English summary) **2005h:65057**
Wang, Rui He *see* **Dai, Min[2] et al.**
Wang, Xinmao *see* **Pan, Victor Ya. et al., 2005g:65064**
Wang, Zhan Jing (*with* Wang, Zhi Jun[2]; Mi, Xiang Yun) Iteration algorithms for solving a system of fuzzy linear equations. (Chinese. English and Chinese summaries)
Wang, Zheng Hua[2] *see* **Wu, Jian Ping[2] et al., 2005a:65035**
Wang, Zhi Jun[2] *see* **Wang, Zhan Jing et al.**
Wang, Zhuan-de *see* **Li, Yao Tang, 2005m:65065**
Wathen, Andrew J. *see* **Loghin, D., 2005h:65048** *and* **Holland, Ruth M. et al., 2005m:65060**
Wei, Yi Min *see* **Zhou, Jie-yong, 2005g:65066** *and* **Jin, Xiao-Qing et al., 2005h:65047**
Wheeler, John Archibald *see* **Lacroix, Sébastien et al., 2005e:65039**
Wheeler, Mary Fanett *see* **Lacroix, Sébastien et al., 2005e:65039**
Winther, Ragnar *see* **Mardal, Kent-Andre, 2005g:65063**
Wittum, Gabriel *see* **Buzdin, A., 2005d:65042**
Wróbel, Iwona *see* **Smoktunowicz, Alicja, 2005m:65070**
Wu, Jian Ping[2] (*with* Wang, Zheng Hua[2]; Li, Xiao Mei) Block diagonal dominance and block diagonal preconditioners to symmetric matrices. (Chinese. English summary) **2005a:65035**
Xiao, Ying Xiong (*with* Shu, Shi; Zhang, Ping Wen; Mo, Ze Yao; Xu, Jin Chao) A kind of semi-coarsing AMG method for two-dimensional energy equations with three temperatures. (Chinese. English summary) **2005b:65035**
— *see also* **Tan, Min[2] et al.**
Xu, Jin Chao (*with* Zikatanov, Ludmil) On an energy minimizing basis for algebraic multigrid methods. (English summary)
— *see also* **Xiao, Ying Xiong et al., 2005b:65035**
Xu, Wei[2] *see* **Jin, Xiao-Qing et al., 2005h:65047**
Xue, Qiu Fang (*with* Chang, Da Wei) A selection of optimal parameters of the AOR iteration for a special kind of matrices. (Chinese. English and Chinese summaries)
Xue, Zhan Ao *see* **Sun, Li Ying[1]**
Yang, Chao[2] (*with* Ng, Esmond G.; Penczek, Pawel A.) Matrix-free constructions of circulant and block circulant preconditioners. (English summary) **2005h:65058**
Yeung, Man-Chung (*with* Boley, Daniel) Transpose-free multiple Lanczos and its application in Padé approximation. (English summary) **2005m:65072**
Yi, Sucheol *see* **Walker, Homer F., 2005d:65051**
Yin, Jun-Feng *see* **Bai, Zhong Zhi et al., 2005m:65054**
Ying, Wen Long *see* **Zhang, Zhen Yue et al., 2005i:65053**
Yoshida, Hideto *see* **Hirano, Hiroyuki et al., 2005k:65064a** *and* **2005k:65064b**
Yu, De Hao *see* **Hu, Qi Ya et al., 2005h:65045**
Yuan, Dong Jing On the convergence of parallel multisplitting asynchronous GAOR method for H-matrix. (English summary) **2005i:65052**
Yuan, Jin Yun (*with* Golub, Gene H.; Plemmons, R. J.; Cecílio, W. A. G.) Semi-conjugate direction methods for real positive definite systems. (English summary) **2005d:65052**
Yun, Jae Heon (*with* Oh, Seyoung; Kim, Eun Heui[2]) Convergence of parallel multisplitting methods using ILU factorizations. (English summary) **2005b:65036**
— A note on SOR(ω) splitting of an M-matrix. Addenda: "New convergence results for

alternating methods" [J. Comput. Appl. Math. **135** (2001), no. 2, 325–333; MR1850547 (2002e:65054)] by C.-L. Wang and T.-Z. Huang. (English summary)
— Convergence of nonstationary multisplitting methods using ILU factorizations. (English summary) **2005m:65073**
Zamora, Antonio *see* **Climent, Joan-Josep et al., 2005e:65034**
Zeng, Xian Wen *see* **Cui, Wei et al.**
Zhang, Lei[1] *see* **Peng, Ya Xin et al., 2005j:65034**
Zhang, Ping Wen *see* **Xiao, Ying Xiong et al., 2005b:65035**
Zhang, Shao-Liang *see* **Abe, Kuniyoshi et al., 2005k:65060** *and* **2005m:65051**
Zhang, Sheng[2] Preconditioned GMRES methods for discretization equation of nonsymmetric and indefinite elliptic problem. (English summary) **2005k:65076**
Zhang, Zhen Yue (*with* Wang, Jing; Fang, Min; Ying, Wen Long) Preconditioning methods with nested simple ILU decomposition. (Chinese. English summary) **2005i:65053**
Zhao, Guo Wei *see* **Cui, Wei et al.**
Zhong, Bao Jiang The rate of convergence of GMRES. (Chinese. English summary) **2005d:65053**
— A product hybrid GMRES algorithm for nonsymmetric linear systems. (English summary) **2005j:65037**
Zhou, Dian *see* **Li, Ruiming, 2005e:65040**
Zhou, Jie-yong (*with* Wei, Yi Min) Stagnation analysis of DGMRES. (English summary) **2005g:65066**
Zhu, Wen Yue *see* **Gu, Gui Ding, 2005m:65059**
Zikatanov, Ludmil *see* **Xu, Jin Chao**

Items with secondary classifications in 65F10

Abrashin, V. N. (*with* Čiegis, Raimondas; Pakalnytė, V.) Spectral stability analysis of one splitting iterative scheme. (English summary) (*see* **2005c:65004**)
Aggarwal, Vikram *see* **Srinivasan, Ashok, (2005i:00014)**
Alart, Pierre *see* **Renouf, Mathieu, 2005m:74073**
Albu, Felix *see* **Bouchard, Martin**
Axelsson, Axel Ove Holger (*with* Faragó, István; Karátson, János) On the application of preconditioning operators for nonlinear elliptic problems. **2005h:65196**
Aykanat, Cevdet *see* **Uçar, Bora, 2005g:05092**
Baggag, Abdelkader (*with* Sameh, Ahmed) A nested iterative scheme for indefinite linear systems in particulate flows. (English summary) **2005b:76080**
Bergamaschi, Luca (*with* Gondzio, Jacek; Zilli, Giovanni) Preconditioning indefinite systems in interior point methods for optimization. (English summary) **2005f:90154**
Bertaccini, Daniele (*with* Wen, You-Wei; Ng, Michael K.) The eigenvalues of preconditioned matrices for linear multistep formulas in boundary value form. (English summary) **2005m:65132**
Bhowmick, S. (*with* McInnes, L.; Norris, B.; Raghavan, Padma) The role of multi-method linear solvers in PDE-based simulations. (English summary) (*see* **2005g:65008**)
Blaheta, Radim Space decomposition preconditioners and parallel solvers. (English summary) **2005j:65163**
Bochev, Pavel B. (*with* Gunzburger, Max D.) An absolutely stable pressure-Poisson stabilized finite element method for the Stokes equations. (English summary) **2005k:65223**
Bouchard, Martin (*with* Albu, Felix) The Gauss-Seidel fast affine projection algorithm for multichannel active noise control and sound reproduction systems. (English summary)
van Brummelen, E. H. *see* **Michler, C., (2005b:65003)**
Calvetti, Daniela (*with* Landi, Germana; Reichel, Lothar; Sgallari, F.) Non-negativity and iterative methods for ill-posed problems. (English summary) **2005j:65044**
— (*with* Reichel, Lothar; Shuibi, A.) Invertible smoothing preconditioners for linear discrete ill-posed problems. (English summary)
Catabriga, Lucia (*with* Coutinho, Alvaro L. G. A.; Franca, Leopoldo P.) Evaluating the LCD algorithm for solving linear systems of equations arising from implicit SUPG formulation of compressible flows. (English summary) **2005b:76081**
Chan, Tony F. C. *see* **Wan, W. L., 2005g:65161**
Chang, Shu-Ming (*with* Lin, Wen Wei; Shieh, Shih-Feng) Gauss-Seidel-type methods for energy states of a multi-component Bose-Einstein condensate. (English summary) **2005g:82068**
Chen, Shu Ming (*with* Wu, Guo Li) Method of non-parametric regression with penalty term to determine adaptively the fitting function. (Chinese. English and Chinese summaries)
Ching, Wai Ki Iterative methods for queuing systems with batch arrivals and negative customers. (English summary) **2005a:60148**
Chiorean, Ioana On some 2D parallel relaxation schemes. (English summary) (*see* **2005b:41002**)
— Parallel methods for solving partial differential equations. (English summary)
Čiegis, Raimondas *see* **Abrashin, V. N. et al., (2005c:65004)**
Coutinho, Alvaro L. G. A. *see* **Catabriga, Lucia et al., 2005b:76081**
Cui, Wei (*with* Zeng, Xian Wen; Zhao, Guo Wei) Parallel algorithm by row action method with orthogonalization for systems of linear equations. (Chinese. English and Chinese summaries)
Dennis, John M. *see* **Thomas, Stephen J. et al., 2005e:65157**
Echebest, N. (*with* Guardarucci, M. T.; Scolnik, H.; Vacchino, M. C.) An acceleration scheme for solving convex feasibility problems using incomplete projection algorithms. (English summary) **2005e:90089**
Elman, Howard C. (*with* Loghin, D.; Wathen, Andrew J.) Preconditioning techniques for Newton's method for the incompressible Navier-Stokes equations. (English summary) **2005b:65121**
Faragó, István (*with* Karátson, János) ★ Numerical solution of nonlinear elliptic problems via preconditioning operators: theory and applications. **2005g:65005**
— *see also* **Axelsson, Axel Ove Holger et al., 2005h:65196**
Fischer, Paul F. *see* **Thomas, Stephen J. et al., 2005e:65157**
Franca, Leopoldo P. *see* **Catabriga, Lucia et al., 2005b:76081**
Frangioni, Antonio (*with* Gentile, Claudio) New preconditioners for KKT systems of network flow problems. (English summary) **2005h:90165**
Fukushima, Masao *see* **Hayashi, Shunsuke et al., 2005h:90140**
Garanzha, V. A. (*with* Kaporin, Igor; Konshin, I.) Truncated Newton type solver with application to grid untangling problem. (English summary) **2005d:90117**
Garrappa, Roberto An analysis of convergence for two-stage waveform relaxation methods. (English summary) **2005d:65099**
Gauthier, Alain (*with* Saleri, Fausto; Veneziani, Alessandro) A fast preconditioner for the incompressible Navier-Stokes equations. (English summary) **2005a:76122**
Gentile, Claudio *see* **Frangioni, Antonio, 2005b:90165**
Ghahreman, N. (*with* Kerayechian, A.) Preconditioners for the pressure-correction method applied to the unsteady Stokes problem. (English summary) **2005j:65103**
Giannoutakis, Konstantinos M. *see* **Gravvanis, George A.**
(Glowinski, Roland) *see* **Conjugate gradient algorithms and finite element methods, 2005c:65003**
Gondzio, Jacek *see* **Bergamaschi, Luca et al., 2005f:90154**
Gravvanis, George A. (*with* Giannoutakis, Konstantinos M.) Normalized explicit finite element approximate inverse preconditioning. (English summary)
Gu, Haiming (*with* Wu, Xiao Nan) Alternating-direction iterative technique for mixed finite element methods for Stokes equations. (English summary)
Guardarucci, M. T. *see* **Echebest, N. et al., 2005e:90089**
Gunzburger, Max D. *see* **Bochev, Pavel B., 2005k:65223**
Hageman, Louis A. (*with* Young, David M.) ★ Applied iterative methods. **2005e:65001**
Hayashi, Shunsuke (*with* Yamaguchi, Takahiro; Yamashita, Nobuo; Fukushima, Masao) A matrix-splitting method for symmetric affine second-order cone complementarity problems. (English summary) **2005h:90140**
Heikkola, Erkki (*with* Rossi, Tuomo; Toivanen, Jari) A domain imbedding method with distributed Lagrange multipliers for acoustic scattering problems. (English summary) (*see* **2005b:00020**)
Huang, Yan Li An iterative method for the Moore-Penrose inverse based on matrix splittings. (Chinese. English and Chinese summaries)
Huckle, Thomas (*with* Serra Capizzano, Stefano) The spectra of preconditioned Toeplitz matrix sequences can have gaps. (English summary) **2005i:47040**
Jin, Xiao-Qing (*with* Lei, Siu-Long; Wei, Yi Min) Circulant preconditioners for solving differential equations with multidelays. (English summary) **2005f:65084**
— (*with* Sin, Vai-kuong; Song, Li-li) Circulant preconditioned WR-BVM methods for ODE systems. (English summary) **2005c:65055**
Junghanns, P. (*with* Rost, Karla) Krylov subspace methods for Cauchy singular integral equations. (English summary) **2005m:65312**
Kanschat, Guido Block preconditioners for LDG discretizations of linear incompressible flow problems. (English summary) **2005m:65248**
Kaporin, Igor *see* **Garanzha, V. A. et al., 2005d:90117**
Karátson, János Constructive Sobolev gradient preconditioning for semilinear elliptic systems. (English summary) **2005h:65197**
— *see also* **Faragó, István, 2005g:65005** *and* **Axelsson, Axel Ove Holger et al., 2005h:65196**
Kechroud, Riyad (*with* Soulaïmani, Azzeddine; Saad, Youcef) Preconditioning techniques for the solution of the Helmholtz equation by the finite element method. (English summary) (*see* **2005g:65009**)
Kerayechian, A. *see* **Ghahreman, N., 2005j:65103**
Kim, Sang Dong (*with* Lee, Hyung-Chun; Shin, Byeong Chun) Pseudospectral least-squares method for the second-order elliptic boundary value problem. (English summary) **2005d:65219**
Konshin, I. *see* **Garanzha, V. A. et al., 2005d:90117**
(Korotov, Sergey) *see* **Conjugate gradient algorithms and finite element methods, 2005c:65003**
(Křížek, Michal) *see* **Conjugate gradient algorithms and finite element methods, 2005c:65003**
Krukier, Lev A. (*with* Subbotina, T. N.) On a class of triangular skew-symmetric schemes for solving the nonstationary convection-diffusion equation. (Russian) **2005i:65131**
Kumar, Bipin *see* **Ratish Kumar, B. V., 2005m:65101**
Kushner, Harold J. The Gauss-Seidel numerical procedure for Markov stochastic games. (English summary) **2005h:91031**
Landi, Germana *see* **Calvetti, Daniela et al., 2005j:65044**
Lee, Hyung-Chun *see* **Kim, Sang Dong et al., 2005d:65219**
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Lin, Wen Wei *see* **Chang, Shu-Ming et al., 2005g:82068**
Loghin, D. *see* **Elman, Howard C. et al., 2005b:65121**
Marek, Ivo Schwarz-like methods for approximate solving cooperative systems. (English summary) **2005k:65196**
Márkus, András The conjugate gradient method for 4th order nonlinear elliptic problems. **2005m:65249**
McInnes, L. *see* **Bhowmick, S. et al., (2005g:65008)**
Michler, C. (*with* van Brummelen, E. H.) GMRES acceleration of subiteration for fluid-structure interactions. (English summary) (*see* **2005b:65003**)
(Neittaanmäki, Pekka) *see* **Conjugate gradient algorithms and finite element methods, 2005c:65003**
Ng, Michael K. ★ Iterative methods for Toeplitz systems. **2005i:65002**
— *see also* **Bertaccini, Daniele et al., 2005m:65132**
Norris, B. *see* **Bhowmick, S. et al., (2005g:65008)**
Pakalnytė, V. *see* **Abrashin, V. N. et al., (2005c:65004)**
Pavlov, A. S. (*with* Yukhno, L. F.) On the solution of ill-conditioned linear systems by iterative methods. (Russian. English and Russian summaries) **2005i:65063**
Popescu-Bodorin, N. Implicit moments matching through Krylov subspaces projections methods. Lanczos methods. (English and Romanian summaries) **2005h:65099**
Raghavan, Padma *see* **Bhowmick, S. et al., (2005g:65008)**
Ratish Kumar, B. V. (*with* Kumar, Bipin) On the development of parallel sparse CGM solver for CFD computations on Anu-cluster. (English summary) **2005m:65101**
Reichel, Lothar *see* **Calvetti, Daniela et al., 2005j:65044**
Renouf, Mathieu (*with* Alart, Pierre) Conjugate gradient type algorithms for frictional multi-contact problems: applications to granular materials. (English summary) **2005m:74073**
Rossi, Tuomo *see* **Heikkola, Erkki et al., (2005b:00020)**
Rost, Karla *see* **Junghanns, P., 2005m:65312**
Saad, Youcef *see* **Kechroud, Riyad et al., (2005g:65009)**
Saleri, Fausto *see* **Gauthier, Alain et al., 2005a:76122**
Sameh, Ahmed *see* **Baggag, Abdelkader, 2005b:76080**
Schenk, O. (*with* van der Vorst, Henk A.) Solution of linear systems.

Scherbakov, A. V. Block iterative process for a difference advective-diffusive equation on sphere. (*see* **2005i:65006**)
Scolnik, H. *see* **Echebest, N. et al., 2005e:90089**
Serra Capizzano, Stefano *see* **Huckle, Thomas, 2005i:47040**
Sgallari, F. *see* **Calvetti, Daniela et al., 2005j:65044**
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Shuibi, A. *see* **Calvetti, Daniela et al.**
Sin, Vai-kuong *see* **Jin, Xiao-Qing et al., 2005c:65055**
Song, Li-li *see* **Jin, Xiao-Qing et al., 2005c:65055**
Soulaïmani, Azzeddine *see* **Kechroud, Riyad et al., (2005g:65009)**
Srinivasan, Ashok (*with* Aggarwal, Vikram) Improved Monte Carlo linear solvers through non-diagonal splitting. (English summary) (*see* **2005i:00014**)
Subbotina, T. N. *see* **Krukier, Lev A., 2005i:65131**
Sundberg, S. (*with* von Sydow, Lina) Semi-Toeplitz preconditioning for the linearized Navier-Stokes equations. (English summary) **2005k:76103**
von Sydow, Lina *see* **Sundberg, S., 2005k:76103**
Thomas, Stephen J. (*with* Dennis, John M.; Tufo, Henry M.; Fischer, Paul F.) A Schwarz preconditioner for the cubed-sphere. (English summary) **2005e:65157**
Toivanen, Jari *see* **Heikkola, Erkki et al., (2005b:00020)**
Tufo, Henry M. *see* **Thomas, Stephen J. et al., 2005e:65157**
Uçar, Bora (*with* Aykanat, Cevdet) Encapsulating multiple communication-cost metrics in partitioning sparse rectangular matrices for parallel matrix-vector multiplies. (English summary) **2005g:05092**
Vacchino, M. C. *see* **Echebest, N. et al., 2005e:90089**
Veneziani, Alessandro *see* **Gauthier, Alain et al., 2005a:76122**
van der Vorst, Henk A. *see* **Schenk, O.**
Wan, W. L. (*with* Chan, Tony F. C.) A phase error analysis of multigrid methods for hyperbolic equations. (English summary) **2005g:65161**
Wathen, Andrew J. *see* **Elman, Howard C. et al., 2005b:65121**
Wei, Yi Min *see* **Jin, Xiao-Qing et al., 2005f:65084**
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Yukhno, L. F. *see* **Pavlov, A. S., 2005i:65063**
Zeng, Xian Wen *see* **Cui, Wei et al.**
Zhang, Shangyou A new family of stable mixed finite elements for the 3D Stokes equations. (English summary) **2005j:65151**
Zhao, Guo Wei *see* **Cui, Wei et al.**
Zilli, Giovanni *see* **Bergamaschi, Luca et al., 2005f:90154**

Items listed otherwise than by author

Conjugate gradient algorithms and finite element methods ★ Conjugate gradient algorithms and finite element methods. **2005c:65003**

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Absil, P.-A. (*with* Sepulchre, Rodolphe; Van Dooren, Paul; Mahony, R.) Cubically convergent iterations for invariant subspace computation. (English summary) **2005m:65074**
Ahmed, Waleed Abd El Maguid *see* **Hanna, Magdy Tawfik et al., 2005h:65059**
Amodio, Pierluigi A symplectic Lanczos-type algorithm to compute the eigenvalues of positive definite Hamiltonian matrices. (English summary) (*see* **2005c:00015**)
Arbenz, Peter (*with* Hochstenbach, Michiel E.) A Jacobi-Davidson method for solving complex symmetric eigenvalue problems. (English summary) **2005g:65067**
— (*with* Geus, Roman) Multilevel preconditioned iterative eigensolvers for Maxwell eigenvalue problems. (English summary) **2005m:65075**
Beattie, Christopher (*with* Embree, Mark; Rossi, John) Convergence of restarted Krylov subspaces to invariant subspaces. (English summary) **2005f:65055**
Bekas, C. *see* **Kokiopoulou, E. et al., 2005b:65038**
Bini, Dario A. (*with* Daddi, Francesco; Gemignani, Luca) On the shifted QR iteration applied to companion matrices. (English summary) **2005m:65076**
Bosner, Nela (*with* Drmač, Zlatko) On accuracy properties of one-sided bidiagonalization algorithm and its applications. (English summary) **2005k:65077**
Brezinski, Claude (*with* Redivo-Zaglia, Michela; Serra Capizzano, Stefano) Extrapolation methods for PageRank computations. (English and French summaries)
Byers, Ralph (*with* Kressner, D.) On the condition of a complex eigenvalue under real perturbations. (English summary) **2005e:65047**
Cao, Xing-Qin *see* **Gu, Ming[1] et al., 2005d:65056**
Chahlaoui, Y. (*with* Gallivan, K.; Van Dooren, Paul) Recursive calculation of dominant singular subspaces. (English summary) **2005a:65036**
Chan, Tony F. C. *see* **Huckaby, David A., 2005k:65080**
Chandrasekaran, Shivkumar (*with* Gu, Ming[1]) A divide-and-conquer algorithm for the eigendecomposition of symmetric block-diagonal plus semiseparable matrices. (English summary) **2005a:65037**
Chen, Dayue *see* **Li, Shiguang et al., 2005m:65084**
Chen, Gui Zhi (*with* Jia, Zhong Xiao) An analogue of the results of Saad and Stewart for harmonic Ritz vectors. (English summary) **2005d:65054**
— (*with* Jia, Zhong Xiao) A refined harmonic Rayleigh-Ritz procedure and an explicitly restarted refined harmonic Arnoldi algorithm. (English summary) **2005m:65077**
— *see also* **Jia, Zhong Xiao, 2005b:65037**
Chen, Tian Ping (*with* Ma, Shi-zhao) The modified natural power method for principal component computation. (English and Chinese summaries) **2005f:65056**
Chi, Xue Bin *see* **Gu, Ming[1] et al., 2005d:65056**
Chu, Eric King-wah Perturbation of eigenvalues for matrix polynomials via the Bauer-Fike theorems. (English summary) **2005g:65068**
Cvetković, Ljiljana (*with* Kostic, Vladimir; Varga, Richard S.) A new Geršgorin-type eigenvalue inclusion set. (English summary) **2005j:65038**
Daddi, Francesco *see* **Bini, Dario A. et al., 2005m:65076**
Datta, Karabi (*with* Hong, Yoopyo; Lee, Ran Baik) Parametrized Newton's iteration for computing an eigenpair of a real symmetric matrix in an interval. (English summary) **2005c:65028**
Davies, Philip I. (*with* Smith, Matthew I.) Updating the singular value decomposition. (English summary) **2005c:65029**
Day, David M. (*with* Hwang, Andrew D.) Neutrally stable fixed points of the QR algorithm. (English summary) **2005e:65048**
Demmel, James (*with* Koev, Plamen) Accurate SVDs of weakly diagonally dominant M-matrices. (English summary) **2005g:65069**
Dhillon, Inderjit S. (*with* Parlett, Beresford N.) Orthogonal eigenvectors and relative gaps. (English summary) **2005k:65078**
— (*with* Parlett, Beresford N.) Multiple representations to compute orthogonal eigenvectors of symmetric tridiagonal matrices. (English summary) **2005d:65055**
Dopico, Froilán M. (*with* Moro, Julio) A note on multiplicative backward errors of accurate SVD algorithms. (English summary) **2005f:65057**
Drmač, Zlatko *see* **Bosner, Nela, 2005k:65077**
Embree, Mark *see* **Beattie, Christopher et al., 2005f:65055**
Fierro, Ricardo D. (*with* Jiang, Eric P.) Lanczos and the Riemannian SVD in information retrieval applications. (English summary) **2005m:65078**
Fu, Yan *see* **Zhang, Yi[1] et al., 2005f:65060**
Gallivan, K. *see* **Chahlaoui, Y. et al., 2005a:65036**
Gallopoulos, E. *see* **Kokiopoulou, E. et al., 2005b:65038**
Gansterer, Wilfried N. (*with* Schneid, J.; Ueberhuber, C. W.) A low-complexity divide-and-conquer method for computing eigenvalues and eigenvectors of symmetric band matrices. (English summary) **2005c:65030**
Gemignani, Luca *see* **Bini, Dario A. et al., 2005m:65076**
Geus, Roman *see* **Arbenz, Peter, 2005m:65075**
Golub, Gene H. *see* **Holz, U. B. et al., 2005m:65080**
Greenbaum, Anne Some theoretical results derived from polynomial numerical hulls of Jordan blocks. (English summary) **2005k:65079**
Grosjean, Alain *see* **Killingbeck, John P. et al., 2005i:65054**
Gu, Ming[1] (*with* Guzzo, Robert; Chi, Xue Bin; Cao, Xing-Qin) A stable divide and conquer algorithm for the unitary eigenproblem. (English summary) **2005d:65056**
— *see also* **Chandrasekaran, Shivkumar, 2005a:65037**
Guo, Chun-Hua Numerical solution of a quadratic eigenvalue problem. (English summary) **2005d:65057**
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Hanna, Magdy Tawfik (*with* Seif, Nabila Philip Attalla; Ahmed, Waleed Abd El Maguid) Hermite-Gaussian-like eigenvectors of the discrete Fourier transform matrix based on the singular-value decomposition of its orthogonal projection matrices. (English summary) **2005h:65059**
Hari, V. (*with* Matejaš, J.) Quadratic convergence of scaled iterates by Kogbetliantz method. (English summary) **2005f:65058**
Hasanov, Vejdi I. An iterative method for solving the spectral problem of complex symmetric matrices. (English summary) **2005c:65031**
He, Wei[4] (*with* Prabhu, Nagabhushana) Jacobi decomposition and eigenvalues of symmetric matrices. (English summary) **2005a:65038**
Helmke, U. *see* **Kleinsteuber, M. et al., 2005j:65039**
Herbst, B. M. *see* **Muller, Neil et al., 2005k:65081**
Hochstenbach, Michiel E. (*with* van der Vorst, Henk A.) Alternatives to the Rayleigh quotient for the quadratic eigenvalue problem. (English summary) **2005g:65070**
— (*with* Košir, Tomaž; Plestenjak, Bor) A Jacobi-Davidson type method for the two-parameter eigenvalue problem. (English summary) **2005m:65079**
— *see also* **Arbenz, Peter, 2005g:65067**
Holz, U. B. (*with* Golub, Gene H.; Law, K. H.) A subspace approximation method for the quadratic eigenvalue problem. (English summary) **2005m:65080**
Hong, Yoopyo *see* **Datta, Karabi et al., 2005c:65028**
Huckaby, David A. (*with* Chan, Tony F. C.) Stewart's pivoted QLP decomposition for low-rank matrices. (English summary) **2005k:65080**
Hüper, K. *see* **Kleinsteuber, M. et al., 2005j:65039**
Hwang, Andrew D. *see* **Day, David M., 2005e:65048**
Jia, Zhong Xiao (*with* Chen, Gui Zhi) A variant of the refined Arnoldi method for large scale matrix eigenproblems. (Chinese. English summary) **2005b:65037**
— (*with* Niu, Da Tian) Implicitly restarting the Lanczos method and the refined Lanczos method for computing a partial singular value decomposition. (Chinese. English summary) **2005c:65032**
— Some theoretical comparisons of refined Ritz vectors and Ritz vectors. (English summary) **2005f:65059**
— *see also* **Chen, Gui Zhi, 2005d:65054** *and* **2005m:65077**
Jiang, Er Xiong A new proof of the global convergence for QL method with Wilkinson shift. (English summary)
— QL method for symmetric tridiagonal matrices. (English summary)
Jiang, Eric P. *see* **Fierro, Ricardo D., 2005m:65078**
Jolicard, Georges *see* **Killingbeck, John P. et al., 2005i:65054**
Kaya, Doğan The symmetric tridigonal eigenproblem on a shared memory multiprocessor. I. (English summary) [The symmetric tridiagonal eigenproblem on a shared memory multiprocessor. I] **2005g:65071**
— The symmetric tridiagonal eigenproblem on a shared memory multiprocessor. II. (English summary)
— (*with* Wright, Ken) Parallel algorithms for reduction of a general matrix to upper Hessenberg form on a shared memory multiprocessor. (English summary) **2005m:65081**
Khaleghi, E. *see* **Saberi Najafi, H., 2005j:65041**
Khilenko, V. V. A numerical method for determining the eigenvalues of matrices of arbitrarily large size. (Russian. English and Ukrainian summaries) **2005m:65082**
Killingbeck, John P. (*with* Grosjean, Alain; Jolicard, Georges) A simple method for complex eigenvalues. (English summary) **2005i:65054**
Kleinsteuber, M. (*with* Helmke, U.; Hüper, K.) Jacobi's algorithm on compact Lie algebras. (English summary) **2005j:65039**
Knizhnerman, Leonid Adaptation of the Lanczos and Arnoldi methods to the spectrum, or

why the two Krylov subspace methods are powerful. (English summary) **2005a:65039**
Koev, Plamen *see* **Demmel, James**, 2005g:65069
Kokiopoulou, E. (*with* Bekas, C.; Gallopoulos, E.) Computing smallest singular triplets with implicitly restarted Lanczos bidiagonalization. (English summary) **2005b:65038**
Košir, Tomaž *see* **Hochstenbach, Michiel E. et al.**, 2005m:65079
Kostic, Vladimir *see* **Cvetković, Ljiljana et al.**, 2005j:65038
Kressner, D. *see* **Byers, Ralph**, 2005e:65047
Law, K. H. *see* **Holz, U. B. et al.**, 2005m:65080
Lee, Ran Baik *see* **Datta, Karabi et al.**, 2005c:65028
Li, Kuiyuan (*with* Uvah, J.; Zhao, Sheng Bian) A fully parallel method for the singular eigenvalue problem. (English summary) **2005m:65083**
Li, Qing Guo[1] *see* **Zhou, Jing Lei**, 2005i:65058
Li, Ren-Cang Accuracy of computed eigenvectors via optimizing a Rayleigh quotient. (English summary) **2005i:65055**
Li, Shiguang (*with* Zhou, Gang[1]; Chen, Dayue) The WZ algorithm for the eigenvalue problem of complex matrix. (English summary) **2005m:65084**
Li, Xiao Mei *see* **Wei, Li Feng**, 2005c:65035
Liang, Bi Yu (*with* Zhang, Chuan Lin) Computing eigenproblem for a symmetric bi-edge diagonal matrix. (Chinese. English summary) **2005e:65049**
Lintner, M. The eigenvalue problem for the 2D Laplacian in $\mathscr{H}$-matrix arithmetic and application to the heat and wave equation. (English summary) **2005j:65040**
Liu, Xin Guo[1] (*with* Wang, Ze-xi) A note on the backward errors for Hermite eigenvalue problems. (English summary)
Ma, Shi-zhao *see* **Chen, Tian Ping**, 2005f:65056
Magaia, Lourenço *see* **Muller, Neil et al.**, 2005k:65081
Mahony, R. *see* **Absil, P.-A. et al.**, 2005m:65074
Maslen, David Keith (*with* Orrison, Michael E.; Rockmore, Daniel N.) Computing isotypic projections with the Lanczos iteration. (English summary) **2005h:65060**
Mastronardi, Nicola (*with* Van Camp, Ellen; Van Barel, Marc) Divide and conquer algorithms for computing the eigendecomposition of symmetric diagonal-plus-semiseparable matrices. (English summary) **2005m:65085**
Matejaš, J. *see* **Hari, V.**, 2005f:65058
ter Maten, E. Jan W. *see* **Rommes, J. et al.**, (2005a:00022)
Matsekh, Anna M. The Godunov-inverse iteration: a fast and accurate solution to the symmetric tridiagonal eigenvalue problem. (English summary) **2005m:65086**
van der Mee, Cornelis V. M. (*with* Rodriguez, Giuseppe; Seatzu, Sebastiano) Spectral factorization of bi-infinite block Toeplitz matrices with applications. (English summary) **2005e:65050**
Meerbergen, Karl The Lanczos method with semi-definite inner product. (English summary) **2005b:65039**
Mehl, Christian Jacobi-like algorithms for the indefinite generalized Hermitian eigenvalue problem. (English summary) **2005d:65058**
Melman, A. Computation of the smallest even and odd eigenvalues of a symmetric positive-definite Toeplitz matrix. (English summary) **2005i:65056**
Mongeau, M. (*with* Torki, Mounir) Computing eigenelements of real symmetric matrices via optimization. (English summary) **2005h:65061**
Moro, Julio *see* **Dopico, Froilán M.**, 2005f:65057
Muller, Neil (*with* Magaia, Lourenço; Herbst, B. M.) Singular value decomposition, eigenfaces, and 3D reconstructions. (English summary) **2005k:65081**
Nechepurenko, Yu. M. (*with* Sadkane, Miloud) On the convergence of the Newton-Kantorovich method for computing invariant subspaces. (Russian. Russian summary) **2005e:65051**
Neymeyr, Klaus A note on inverse iteration. (English summary) **2005k:65082**
Niu, Da Tian *see* **Jia, Zhong Xiao**, 2005c:65032
Orrison, Michael E. *see* **Maslen, David Keith et al.**, 2005h:65060
Pang, Ming-xian New estimates for singular values of a matrix. (English summary) **2005m:65087**
Parlett, Beresford N. *see* **Dhillon, Inderjit S.**, 2005d:65055 *and* 2005k:65078
Plestenjak, Bor *see* **Hochstenbach, Michiel E. et al.**, 2005m:65079
Prabhu, Nagabhushana *see* **He, Wei**[4], 2005a:65038
Pradlwarter, H. J. (*with* Schuëller, G. I.; Szekely, G. S.) Random eigenvalue problems for large systems. (English summary) **2005i:65057**
Quintana-Ortí, Enrique S. *see* **Sun, Xiaobai**, 2005c:65033
Redivo-Zaglia, Michela *see* **Brezinski, Claude et al.**
Rockmore, Daniel N. *see* **Maslen, David Keith et al.**, 2005h:65060
Rodriguez, Giuseppe *see* **van der Mee, Cornelis V. M. et al.**, 2005e:65050
Rommes, J. (*with* van der Vorst, Henk A.; ter Maten, E. Jan W.) Jacobi-Davidson methods and preconditioning with applications in pole-zero analysis. (English summary) (*see* **2005a:00022**)
Rossi, John *see* **Beattie, Christopher et al.**, 2005f:65055
Rump, Siegfried M. (*with* Zemke, Jens-Peter M.) On eigenvector bounds. (English summary) **2005d:65059**
Saberi Najafi, H. (*with* Khaleghi, E.) A new restarting method in the Arnoldi algorithm for computing the eigenvalues of a nonsymmetric matrix. (English summary) **2005j:65041**
Sadkane, Miloud *see* **Nechepurenko, Yu. M.**, 2005e:65051
Schneid, J. *see* **Gansterer, Wilfried N. et al.**, 2005c:65030
Schuëller, G. I. *see* **Pradlwarter, H. J. et al.**, 2005i:65057
Seatzu, Sebastiano *see* **van der Mee, Cornelis V. M. et al.**, 2005e:65050
Seif, Nabila Philip Attalla *see* **Hanna, Magdy Tawfik et al.**, 2005h:65059
Sepulchre, Rodolphe *see* **Absil, P.-A. et al.**, 2005m:65074
Serra Capizzano, Stefano *see* **Brezinski, Claude et al.**
Sleijpen, Gerard L. G. (*with* Wubs, Fred W.) Exploiting multilevel preconditioning techniques in eigenvalue computations. (English summary) **2005a:65040**
Smith, Matthew I. *see* **Davies, Philip I.**, 2005c:65029
Sun, Xiaobai (*with* Quintana-Ortí, Enrique S.) Spectral division methods for block generalized Schur decompositions. (English summary) **2005c:65033**
Szekely, G. S. *see* **Pradlwarter, H. J. et al.**, 2005i:65057
Tang, Hua Jin *see* **Zhang, Yi**[1] **et al.**, 2005f:65060
Tisseur, Françoise Tridiagonal-diagonal reduction of symmetric indefinite pairs. (English summary) **2005k:65083**
Torki, Mounir *see* **Mongeau, M.**, 2005h:65061
Ueberhuber, C. W. *see* **Gansterer, Wilfried N. et al.**, 2005c:65030
Uvah, J. *see* **Li, Kuiyuan et al.**, 2005m:65083
Van Barel, Marc *see* **Mastronardi, Nicola et al.**, 2005m:65085
Van Camp, Ellen *see* **Mastronardi, Nicola et al.**, 2005m:65085
Van Dooren, Paul *see* **Chahlaoui, Y. et al.**, 2005a:65036 *and* **Absil, P.-A. et al.**, 2005m:65074
Varga, Richard S. *see* **Cvetković, Ljiljana et al.**, 2005j:65038
van der Vorst, Henk A. Modern methods for the iterative computation of eigenpairs of matrices of high dimension. (English summary) **2005d:65060**
— *see also* **Hochstenbach, Michiel E.**, 2005g:65070 *and* **Rommes, J. et al.**, (2005a:00022)
Voss, Heinrich A variant of the inverted Lanczos method. (English summary) **2005c:65034**
Wang, Ze-xi *see* **Liu, Xin Guo**[1]
Watkins, David S. On Hamiltonian and symplectic Lanczos processes. (English summary) **2005g:65072**
Wei, Li Feng (*with* Li, Xiao Mei) Parallel divide and conquer algorithm with multisection for real symmetric band generalized eigenvalue problems. (Chinese. English summary) **2005c:65035**
Wright, Ken *see* **Kaya, Doğan**, 2005m:65081
Wu, Gang[1] An iterative block Arnoldi algorithm with modified approximate eigenvectors for large unsymmetric eigenvalue problems. (English summary) **2005d:65061**
Wubs, Fred W. *see* **Sleijpen, Gerard L. G.**, 2005a:65040
Zemke, Jens-Peter M. *see* **Rump, Siegfried M.**, 2005d:65059
Zhang, Chuan Lin *see* **Liang, Bi Yu**, 2005e:65049
Zhang, Yi[1] (*with* Fu, Yan; Tang, Hua Jin) Neural networks based approach for computing eigenvectors and eigenvalues of symmetric matrix. (English summary) **2005f:65060**
Zhao, Sheng Bian *see* **Li, Kuiyuan et al.**, 2005m:65083
Zhou, Gang[1] *see* **Li, Shiguang et al.**, 2005m:65084
Zhou, Jing Lei (*with* Li, Qing Guo[1]) The contained region for eigenvalue of matrix. (Chinese. English and Chinese summaries) **2005i:65058**
Zolić, Arif A new variant of an iterative method for solving the complete problem of eigenvalues of matrices. (English summary) **2005k:65084**

Items with secondary classifications in 65F15

Alam, Rafikul (*with* Bora, Shreemayee) On ϵ-spectral analysis of matrices. (English summary) (*see* **2005d:47001**)
— (*with* Bora, Shreemayee) On sensitivity of eigenvalues and eigendecompositions of matrices. (English summary) **2005i:15013**
Bai, Zheng-Jian (*with* Chan, Raymond H.) Inverse eigenproblem for centrosymmetric and centroskew matrices and their approximation. (English summary) **2005h:65063**
(Bazán, Fermín S. V.) *see* **Viloche, Fermín**, 2005b:65001
Bennighof, Jeffrey K. (*with* Lehoucq, Richard B.) An automated multilevel substructuring method for eigenspace computation in linear elastodynamics. (English summary) **2005c:74030**
Boley, Daniel *see* **Yeung, Man-Chung**, 2005m:65072
Boman, Erik G. (*with* Hendrickson, Bruce A.) Support theory for preconditioning. (English summary) **2005g:65049**
Bora, Shreemayee *see* **Alam, Rafikul**, 2005i:15013 *and* (2005d:47001)
Burke, James V. (*with* Lewis, Adrian S.; Overton, Michael L.) Pseudospectral components and the distance to uncontrollability. (English summary) **2005i:93010**
Cătinaş, Emil *see* **Păvăloiu, Ion**, 2005f:65071
Chan, Raymond H. *see* **Bai, Zheng-Jian**, 2005h:65063
Chu, Delin On the computation of the infimum in H_∞-optimization. (English summary)
Diele, Fasma (*with* Laudadio, Teresa; Mastronardi, Nicola) On some inverse eigenvalue problems with Toeplitz-related structure. (English summary) **2005m:65088**
Fan, Hongjun *see* **Shen, Yuming et al.**, 2005h:15035
Friswell, Michael I. *see* **Qiu, Zhi Ping**[1] **et al.**, 2005j:70047
(Gerschgorin, S. A.) *see* **Varga, Richard S.**, 2005h:15002
He, Charlie (*with* Meini, Beatrice; Rhee, N. H.; Sohraby, K.) A quadratically convergent Bernoulli-like algorithm for solving matrix polynomial equations in Markov chains. (English summary) **2005d:60113**
Hendrickson, Bruce A. *see* **Boman, Erik G.**, 2005g:65049
Hochstenbach, Michiel E. (*with* Plestenjak, Bor) Backward error, condition numbers, and pseudospectra for the multiparameter eigenvalue problem. (English summary) **2005a:65043**
Hwang, Tsung-Min (*with* Lin, Wen Wei; Liu, Jinn-Liang; Wang, Weichung) Fixed-point methods for a semiconductor quantum dot model. (English summary)
Iwasaki, Masashi (*with* Nakamura, Yoshimasa) An application of the discrete Lotka-Volterra system with variable step-size to singular value computation. (English summary) **2005e:39046**
Janovská, Drahoslava (*with* Opfer, Gerhard) Fast Givens transformation for quaternion valued matrices applied to Hessenberg reductions. (English summary) **2005m:70005**
Jónsson, Guđbjörn F. (*with* Vavasis, Stephen A.) Solving polynomials with small leading coefficients. (English summary) **2005k:12010**
— (*with* Vavasis, Stephen A.) Accurate solution of polynomial equations using Macaulay resultant matrices. (English summary) **2005f:13033**
Kempe, David (*with* McSherry, Frank) A decentralized algorithm for spectral analysis. (English summary) **2005j:68118**
Kostić, Aleksandra (*with* Voss, Heinrich) Recurrence relations for the even and odd characteristic polynomials of a symmetric Toeplitz matrix. (English summary) **2005h:15033**
Laudadio, Teresa *see* **Diele, Fasma et al.**, 2005m:65088
Lehoucq, Richard B. *see* **Bennighof, Jeffrey K.**, 2005c:74030
Lewis, Adrian S. *see* **Burke, James V. et al.**, 2005i:93010
Li, Wen[1] (*with* Sun, Wei-wei) The perturbation bounds for eigenvalues of normal matrices. (English summary) **2005j:15022**
Lin, Wen Wei *see* **Hwang, Tsung-Min et al.**
Liu, Jinn-Liang *see* **Hwang, Tsung-Min et al.**
Mastronardi, Nicola *see* **Diele, Fasma et al.**, 2005m:65088

McSherry, Frank *see* **Kempe, David, 2005j:68118**
Mehl, Christian (*with* Mehrmann, Volker; Xu, Hong-guo) On doubly structured matrices and pencils that arise in linear response theory. (English summary) **2005b:15025**
Mehrmann, Volker *see* **Mehl, Christian et al., 2005b:15025**
Meini, Beatrice *see* **He, Charlie et al., 2005d:60113**
Nakamura, Yoshimasa *see* **Iwasaki, Masashi, 2005e:39046**
Opfer, Gerhard *see* **Janovská, Drahoslava, 2005m:70005**
Overton, Michael L. *see* **Burke, James V. et al., 2005i:93010**
Palmer, A. S. (*with* Phillips, T. N.) Numerical approximation of the spectra of Phan-Thien Tanner liquids. (English summary) **2005m:76013**
Păvăloiu, Ion (*with* Cătinaş, Emil) On the Chebyshev method, with numerical applications to the eigenpair problem. (English summary) **2005f:65071**
Phillips, T. N. *see* **Palmer, A. S., 2005m:76013**
Plestenjak, Bor *see* **Hochstenbach, Michiel E., 2005a:65043**
Protsakh, L. P. *see* **Savenko, P. O., 2005g:47032**
Qiu, Zhi Ping[1] (*with* Wang, Xiaojun[2]; Friswell, Michael I.) Eigenvalue bounds of structures with uncertain-but-bounded parameters. (English summary) **2005j:70047**
Raghavan, Padma *see* **Teranishi, Keita et al., (2005g:65008)**
Rhee, N. H. *see* **He, Charlie et al., 2005d:60113**
Savenko, P. O. (*with* Protsakh, L. P.) A variational approach to the solution of an eigenvalue problem with a nonlinear vector spectral parameter. (Ukrainian. English, Russian and Ukrainian summaries) **2005g:47032**
Shen, Yuming (*with* Zhao, Jinxi; Fan, Hongjun) Properties and computations of matrix pseudospectra. (English summary) **2005h:15035**
Sheng, Yan Ping *see* **Xie, Dong Xiu et al., 2005e:15026**
Simon, Horst D. *see* **Zhang, Zhen Yue et al., 2005h:15038**
Simoncini, Valeria (*with* Szyld, Daniel B.) Theory of inexact Krylov subspace methods and applications to scientific computing. (English summary) **2005g:65065**
Sohraby, K. *see* **He, Charlie et al., 2005d:60113**
Stewart, G. W. An Elsner-like perturbation theorem for generalized eigenvalues. (English summary) **2005f:15014**
Sun, Ji-Guang Perturbation bounds for subspaces associated with periodic eigenproblems. (English summary) **2005m:15024**
Sun, Wei-wei *see* **Li, Wen[1], 2005j:15022**
Szyld, Daniel B. *see* **Simoncini, Valeria, 2005g:65065**
Teranishi, Keita (*with* Raghavan, Padma; Yang, Chao[2]) Time-memory trade-offs using sparse matrix methods for large-scale eigenvalue problems. (English summary) (*see* **2005g:65008**)
Varga, Richard S. ★ Geršgorin and his circles. **2005h:15002**
Vavasis, Stephen A. *see* **Jónsson, Guđbjörn F., 2005f:13033** *and* **2005k:12010**
Viloche, Fermín ★ Autovalores de polinômios matriciais: sensibilidade, computação e aplicações. [Eigenvalues of matrix polynomials: sensitivity, computation and applications] **2005b:65001**
Voss, Heinrich *see* **Kostić, Aleksandra, 2005h:15033**
Wang, Weichung *see* **Hwang, Tsung-Min et al.**
Wang, Xiaojun[2] *see* **Qiu, Zhi Ping[1] et al., 2005j:70047**
Xie, Dong Xiu (*with* Sheng, Yan Ping; Zhang, Zhong Zhi) Computing the nearest bisymmetric positive semidefinite matrix under the spectral restriction. (English summary) **2005e:15026**
Xu, Hong-guo *see* **Mehl, Christian et al., 2005b:15025**
Yang, Chao[2] *see* **Teranishi, Keita et al., (2005g:65008)**
Yeung, Man-Chung (*with* Boley, Daniel) Transpose-free multiple Lanczos and its application in Padé approximation. (English summary) **2005m:65072**
Zha, Hong-yuan *see* **Zhang, Zhen Yue et al., 2005h:15038** *and* **2005k:65024**
Zhang, Zhen Yue (*with* Zha, Hong-yuan; Simon, Horst D.) Low-rank approximations with sparse factors II. Penalized methods with discrete Newton-like iterations. (English summary) **2005h:15038**
— (*with* Zha, Hong-yuan) Principal manifolds and nonlinear dimensionality reduction via tangent space alignment. (English summary) **2005k:65024**
Zhang, Zhong Zhi *see* **Xie, Dong Xiu et al., 2005e:15026**
Zhao, Jinxi *see* **Shen, Yuming et al., 2005h:15035**

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Bai, Zheng-Jian (*with* Chan, Raymond H.; Morini, Benedetta) An inexact Cayley transform method for inverse eigenvalue problems. (English summary) **2005h:65062**
— (*with* Chan, Raymond H.) Inverse eigenproblem for centrosymmetric and centroskew matrices and their approximation. (English summary) **2005h:65063**
— *see also* **Chan, Raymond H. et al., 2005a:65041**
Chan, Raymond H. (*with* Bai, Zheng-Jian; Morini, Benedetta) On the convergence rate of a Newton-like method for inverse eigenvalue and inverse singular value problems. (English summary) **2005a:65041**
— *see also* **Bai, Zheng-Jian et al., 2005h:65062** *and* **2005h:65063**
Chu, Moody T. (*with* Golub, Gene H.) Structured inverse eigenvalue problems. (English summary) **2005b:65040**
— (*with* Diele, Fasma; Sgura, Ivonne) Gradient flow methods for matrix completion with prescribed eigenvalues. (English summary) **2005b:65041**
— (*with* Kuo, Yuen-Cheng; Lin, Wen Wei) On inverse quadratic eigenvalue problems with partially prescribed eigenstructure. (English summary) **2005h:65064**
— (*with* Xu, Shu-Fang) On computing minimal realizable spectral radii of non-negative matrices. (English summary) **2005j:65042**
Diele, Fasma (*with* Laudadio, Teresa; Mastronardi, Nicola) On some inverse eigenvalue problems with Toeplitz-related structure. (English summary) **2005m:65088**
— *see also* **Chu, Moody T. et al., 2005b:65041**
Egaña, J. C. *see* **Jiménez Alarcon, Raul Dario et al., 2005b:65042**
Golub, Gene H. *see* **Chu, Moody T., 2005b:65040**
Han, Xu-li *see* **Peng, Zhen Yun, 2005i:65059**
Hu, Xi Yan *see* **Peng, Zhen Yun et al., 2005d:65062** *and* **Meng, Chun Jun et al.**
Jiménez Alarcon, Raul Dario (*with* Santos, L. C.; Kuhl, N. M.; Egaña, J. C.; Soto, Ricardo) An inverse eigenvalue procedure for damage detection in rods. (English summary) **2005b:65042**
Jing, He Fang (*with* Li, Chun Guang; Zhou, Bing Wei; You, Chuan Hua) A solvability condition for the inverse eigenvalue problem of generalized Jacobi matrices. (Chinese. English and Chinese summaries)
Knizhnerman, Leonid Stability estimates on the Jacobi and unitary Hessenberg inverse eigenvalue problems. (English summary) **2005m:65089**
Kuhl, N. M. *see* **Jiménez Alarcon, Raul Dario et al., 2005b:65042**
Kuo, Yuen-Cheng *see* **Chu, Moody T. et al., 2005h:65064**
Laudadio, Teresa *see* **Diele, Fasma et al., 2005m:65088**
Li, Chun Guang *see* **Jing, He Fang et al.**
Li, Jie Hong Inverse problems of generalized eigenvalues for periodic symmetric tridiagonal matrices. (Chinese. English and Chinese summaries)
Lin, Wen Wei *see* **Chu, Moody T. et al., 2005h:65064**
Liu, Chang Rong *see* **Zhang, Zhong Zhi, 2005e:65053**
Lu, Lin Zhang (*with* Ng, Michael K.) On sufficient and necessary conditions for the Jacobi matrix inverse eigenvalue problem. (English summary) **2005f:65061**
Ma, Shuang Hong *see* **Peng, Shu Hui et al.**
Mastronardi, Nicola *see* **Diele, Fasma et al., 2005m:65088**
Meng, Chun Jun (*with* Hu, Xi Yan; Zhang, Lei[1]) The inverse eigenvalue problem of orthogonal matrices. (Chinese. English and Chinese summaries)
Mohseni Moghadam, M. (*with* Rivaz, Azim) A divided conquer algorithm for constructing of a positive symmetric matrix with a given spectral data. (English summary)
Morini, Benedetta *see* **Chan, Raymond H. et al., 2005a:65041** *and* **Bai, Zheng-Jian et al., 2005h:65062**
Ng, Michael K. *see* **Lu, Lin Zhang, 2005f:65061**
Peng, Shu Hui (*with* Shi, Ai Ling) A kind of inverse eigenvalue problem for centrol-symmetric matrices. (Chinese. English and Chinese summaries)
— (*with* Shi, Ai Ling; Ma, Shuang Hong) A kind of inverse eigenvalue problems for bisymmetric nonnegative matrices. (Chinese. English and Chinese summaries)
Peng, Zhen Yun (*with* Hu, Xi Yan; Zhang, Lei[1]) The inverse problem of centrosymmetric matrices with a submatrix constraint. (English summary) **2005d:65062**
— The inverse eigenvalue problem for Hermitian anti-reflexive matrices and its approximation. (English summary)
— (*with* Han, Xu-li) Constructing Jacobi matrices with prescribed ordered defective eigenpairs and a principal submatrix. (English summary) **2005i:65059**
Politi, T. A discrete approach for the inverse singular value problem in some quadratic group. (English summary) (*see* **2005c:00015**)
Rivaz, Azim *see* **Mohseni Moghadam, M.**
Santos, L. C. *see* **Jiménez Alarcon, Raul Dario et al., 2005b:65042**
Sgura, Ivonne *see* **Chu, Moody T. et al., 2005b:65041**
Shi, Ai Ling *see* **Peng, Shu Hui et al.**
Soto, Ricardo *see* **Jiménez Alarcon, Raul Dario et al., 2005b:65042**
Wang, Zheng Sheng Inverse eigenvalue problems for real symmetric banded matrices. (Chinese. English and Chinese summaries) **2005m:65090**
Xu, Shu-Fang *see* **Chu, Moody T., 2005j:65042**
Yin, Qingxiang Construction of real antisymmetric and bi-antisymmetric matrices with prescribed spectrum data. (English summary) **2005e:65052**
You, Chuan Hua *see* **Jing, He Fang et al.**
Zhang, Lei[1] *see* **Peng, Zhen Yun et al., 2005d:65062** *and* **Meng, Chun Jun et al.**
Zhang, Yu Hai On the general algebraic inverse eigenvalue problems. (English summary) **2005h:65065**
Zhang, Zhong Zhi (*with* Liu, Chang Rong) Inverse eigenvalue problem of Hermitian generalized anti-Hamiltonian matrices. (English summary) **2005e:65053**
Zhou, Bing Wei *see* **Jing, He Fang et al.**

Items with secondary classifications in 65F18

Bai, Zheng-Jian The solvability conditions for the inverse eigenvalue problem of Hermitian and generalized skew-Hamiltonian matrices and its approximation. (English summary) **2005i:15014**
Bultheel, Adhemar (*with* Van Barel, Marc; Van gucht, P.) Orthogonal basis functions in discrete least-squares rational approximation. (English summary) **2005a:93043**
Fasino, Dario *see* **Van Barel, Marc et al., 2005m:42046**
Gemignani, Luca *see* **Van Barel, Marc et al., 2005m:42046**
Kim, Meeyoung (*with* Rosenthal, Joachim; Wang, Xiaochang Alex) Pole placement and matrix extension problems: a common point of view. (English summary) **2005e:93064**
Mastronardi, Nicola *see* **Van Barel, Marc et al., 2005m:42046**
Qian, Jiang[1] (*with* Xu, Shu-Fang) Robust partial eigenvalue assignment problem for the second-order system. (English summary)
Rosenthal, Joachim *see* **Kim, Meeyoung et al., 2005e:93064**
Šmigoc, Helena Construction of nonnegative matrices and the inverse eigenvalue problem. (English summary) **2005m:15063**
Van Barel, Marc (*with* Fasino, Dario; Gemignani, Luca; Mastronardi, Nicola) Orthogonal rational functions and structured matrices. (English summary) **2005m:42046**
— *see also* **Bultheel, Adhemar et al., 2005a:93043**
Van gucht, P. *see* **Bultheel, Adhemar et al., 2005a:93043**
Wang, Xiaochang Alex *see* **Kim, Meeyoung et al., 2005e:93064**
Xu, Shu-Fang *see* **Qian, Jiang[1]**

65F20 Overdetermined systems, pseudoinverses

Astola, Jaakko T. *see* **Tunyan, K. et al., 2005j:65043**
Benzi, Michele (*with* Tůma, Miroslav) A robust preconditioner with low memory requirements for large sparse least squares problems. (English summary) **2005e:65054**
Ciochină, Silviu *see* **Paleologu, Constantin et al., 2005a:65042**
Egiazarian, Karen O. *see* **Tunyan, K. et al., 2005j:65043**
Elmroth, Erik (*with* Gustavson, Fred G.) A faster and simpler recursive algorithm for the LAPACK routine DGELS. (English summary) **2005b:65043**
Enescu, Andrei *see* **Paleologu, Constantin et al., 2005a:65042**
Guo, Hongbin *see* **Renaut, Rosemary A., 2005k:65085**
Gustavson, Fred G. *see* **Elmroth, Erik, 2005b:65043**

Heinig, Georg Fast algorithms for Toeplitz least squares problems. (English summary) **2005h:65066**
Henn, Stefan A Levenberg-Marquardt scheme for nonlinear image registration. (English summary) **2005c:65036**
Kontoghiorghes, Erricos J. *see* **Yanev, Petko**, **2005b:65046**
Kukush, A. G. *see* **Markovsky, Ivan et al.**, **2005b:65044**
Markovsky, Ivan (*with* Van Huffel, Sabine; Kukush, A. G.) On the computation of the multivariate structured total least squares estimator. (English summary) **2005b:65044**
Paleologu, Constantin (*with* Ciochină, Silviu; Enescu, Andrei) Modified versions of QRD-LSL adaptive algorithm with lower computational complexity. (English summary) **2005a:65042**
Peng, Zhen Yun Least-squares solutions of inverse problems for one kind of symmetrizable matrices. (Chinese. English summary)
Popa, Constantin ★ Iterative methods for linear least-squares problems. **2005b:65045**
Pourquier, Olivier (*with* Sadkane, Miloud) On the normwise backward error of large underdetermined least squares problems. (English summary)
Renaut, Rosemary A. (*with* Guo, Hongbin) Efficient algorithms for solution of regularized total least squares. (English summary) **2005k:65085**
Sadkane, Miloud *see* **Pourquier, Olivier**
Tůma, Miroslav *see* **Benzi, Michele**, **2005e:65054**
Tuniev, Albert *see* **Tunyan, K. et al.**, **2005j:65043**
Tunyan, K. (*with* Egiazarian, Karen O.; Tuniev, Albert; Astola, Jaakko T.) An efficient approach to the linear least squares problem. (English summary) **2005j:65043**
Van Huffel, Sabine *see* **Markovsky, Ivan et al.**, **2005b:65044**
Wei, Yi Min *see* **Zhou, Jie-yong**, **2005h:65067**
Xu, Hong-guo A backward stable hyperbolic QR factorization method for solving indefinite least squares problem. (English summary)
Yanev, Petko (*with* Kontoghiorghes, Erricos J.) Efficient algorithms for block downdating of least squares solutions. (English summary) **2005b:65046**
Yeredor, Arie Multiple delays estimation for chirp signals using structured total least squares. (English summary) **2005e:65055**
Zhou, Jie-yong (*with* Wei, Yi Min) Perturbation analysis of singular linear systems with arbitrary index. (English summary) **2005h:65067**
Zhuk, S. N. Minimax estimation of solutions of systems of linear algebraic equations with singular matrices. (Russian. English, Russian and Ukrainian summaries) **2005i:65060**

Items with secondary classifications in 65F20

Benesty, Jacob (*with* Gänsler, Tomas) New insights into the RLS algorithm. (English summary) **2005d:94023**
Ching, Wai Ki *see* **Lin, Fu-Rong et al.**, **2005e:65041**
Dai, Hua Computing a nearest P-symmetric nonnegative definite matrix under linear restriction. (English summary) **2005g:15027**
Gänsler, Tomas *see* **Benesty, Jacob**, **2005d:94023**
Han, Chong Zhao *see* **Kong, Xiang Yu et al.**, **2005c:94018**
Ho, H. W. (*with* Wong, Sze-Chun) A Levenberg-Marquardt iterative solver for least-squares problems. (English summary)
Kong, Xiang Yu (*with* Han, Chong Zhao; Ma, Hong Guang; Wei, Rui Xuan) A total least square algorithm and its application to Volterra filters. (Chinese. English and Chinese summaries) **2005c:94018**
Lin, Fu-Rong (*with* Ching, Wai Ki; Ng, Michael K.) Preconditioning regularized least squares problems arising from high-resolution image reconstruction from low-resolution frames. (English summary) **2005e:65041**
Ma, Hong Guang *see* **Kong, Xiang Yu et al.**, **2005c:94018**
Ng, Michael K. *see* **Lin, Fu-Rong et al.**, **2005e:65041**
Osborne, M. R. V-invariant methods for generalised least squares problems. (English summary) (*see* **2005g:00014**)
Popa, Constantin Direct and iterative Kaczmarz-like solvers. (English summary) **2005f:65050**
— (*with* Zdunek, Rafal) Kaczmarz extended algorithm for tomographic image reconstruction from limited data. (English summary) **2005i:94001**
Schipp, Ferenc Orthogonal product systems of rational functions. (English summary) **2005e:42077**
Wang, Dingkun *see* **Wei, Yi Min**, **2005e:15007**
Wei, Rui Xuan *see* **Kong, Xiang Yu et al.**, **2005c:94018**
Wei, Yi Min Integral representation of the generalized inverse $A^{(2)}_{T,S}$ and its applications. (English summary) **2005c:15009**
— (*with* Wang, Dingkun) Condition numbers and perturbation of the weighted Moore-Penrose inverse and weighted linear least squares problem. (English summary) **2005e:15007**
Wong, Sze-Chun *see* **Ho, H. W.**
Zdunek, Rafal *see* **Popa, Constantin**, **2005i:94001**

65F22 Ill-posedness, regularization

Barlow, Jesse L. *see* **Fu, Haoying**, **2005i:65062**
Calvetti, Daniela (*with* Reichel, Lothar) Tikhonov regularization of large linear problems. (English summary) **2005e:65056a**
— (*with* Lewis, Bryan; Reichel, Lothar; Sgallari, F.) Tikhonov regularization with nonnegativity constraint. (English summary) **2005m:65091**
— (*with* Landi, Germana; Reichel, Lothar; Sgallari, F.) Non-negativity and iterative methods for ill-posed problems. (English summary) **2005j:65044**
— (*with* Reichel, Lothar; Shuibi, A.) L-curve and curvature bounds for Tikhonov regularization. (English summary) **2005i:65061**
— (*with* Reichel, Lothar) Tikhonov regularization with a solution constraint. (English summary) **2005m:65092**
— (*with* Reichel, Lothar; Shuibi, A.) Invertible smoothing preconditioners for linear discrete ill-posed problems. (English summary)
Fu, Haoying (*with* Barlow, Jesse L.) A regularized structured total least squares algorithm for high-resolution image reconstruction. (English summary) **2005i:65062**
Hanke, Martin On Lanczos based methods for the regularization of discrete ill-posed problems. (English summary) **2005c:65037**
— A note on Tikhonov regularization of large linear problems. (English summary) **2005e:65056b**
Hansen, P. C. *see* **Jacobsen, Michael et al.**, **2005e:65057**
Hosoda, Y. *see* **Kitagawa, Takashi et al.**, **2005d:65063**
Jacobsen, Michael (*with* Hansen, P. C.; Saunders, Michael A.) Subspace preconditioned LSQR for discrete ill-posed problems. (English summary) **2005e:65057**
Kalitkin, N. N. (*with* Kuz'mina, L. V.) Approximation by nonorthogonal systems. (Russian. English and Russian summaries) **2005f:65062**
Katsyuba, O. A. (*with* Nesterov, A. Yu.) A multipurpose iterative algorithm, applicable to numerical solving ill-conditioned general systems of simultaneous linear algebraic equations realized by a digital computer. (*see* **2005g:00019**)
Kitagawa, Takashi (*with* Nakata, Susumu; Hosoda, Y.) Regularization using QR factorization and the estimation of the optimal parameter. (English summary) **2005d:65063**
Kuz'mina, L. V. *see* **Kalitkin, N. N.**, **2005f:65062**
Landi, Germana *see* **Calvetti, Daniela et al.**, **2005j:65044**
Lemmerling, P. *see* **Mastronardi, Nicola et al.**, **2005k:65086**
Lewis, Bryan *see* **Calvetti, Daniela et al.**, **2005m:65091**
Liu, Fei[2] *see* **Wu, Jun Liang**
Mastronardi, Nicola (*with* Lemmerling, P.; Van Huffel, Sabine) Fast regularized structured total least squares algorithm for solving the basic deconvolution problem. (English summary) **2005k:65086**
Mathé, Peter Saturation of regularization methods for linear ill-posed problems in Hilbert spaces. (English summary) **2005m:65093**
Nakata, Susumu *see* **Kitagawa, Takashi et al.**, **2005d:65063**
Nesterov, A. Yu. *see* **Katsyuba, O. A.**, (**2005g:00019**)
Pavlov, A. S. (*with* Yukhno, L. F.) On the solution of ill-conditioned linear systems by iterative methods. (Russian. English and Russian summaries) **2005i:65063**
Popa, Constantin On a modified Kovarik algorithm for symmetric matrices. (English summary) **2005h:65068**
Reichel, Lothar *see* **Calvetti, Daniela et al.**, **2005e:65056a**; **2005i:65061**; **2005j:65044**; **2005m:65091** *and* **2005m:65092**
Saunders, Michael A. *see* **Jacobsen, Michael et al.**, **2005e:65057**
Sgallari, F. *see* **Calvetti, Daniela et al.**, **2005j:65044** *and* **2005m:65091**
Shuibi, A. *see* **Calvetti, Daniela et al.**, **2005i:65061**
Van Huffel, Sabine *see* **Mastronardi, Nicola et al.**, **2005k:65086**
Wang, Dingkun Some topics on weighted Moore-Penrose inverse, weighted least squares and weighted regularized Tikhonov problems. (English summary) **2005g:65073**
Wu, Jun Liang (*with* Liu, Fei[2]) Control model of ill-posed linear system and its iterative solution method. (Chinese. English and Chinese summaries)
Yukhno, L. F. *see* **Pavlov, A. S.**, **2005i:65063**

Items with secondary classifications in 65F22

Eriksson, Jerry (*with* Gulliksson, Mårten E.) Local results for the Gauss-Newton method on constrained rank-deficient nonlinear least squares. (English summary) **2005d:65095**
van den Eshof, Jasper (*with* Sleijpen, Gerard L. G.) Accurate conjugate gradient methods for families of shifted systems. (English summary) **2005c:65024**
Gulliksson, Mårten E. *see* **Eriksson, Jerry**, **2005d:65095**
Guo, Hongbin *see* **Renaut, Rosemary A.**, **2005k:65085**
Jin, Bangti A meshless method for the Laplace and biharmonic equations subjected to noisy boundary data. (English summary)
— (*with* Zheng, Yao) Boundary knot method for some inverse problems associated with the Helmholtz equation. (English summary) **2005k:65269**
Kuo, Yuen-Cheng (*with* Lin, Wen Wei; Xu, Shu-Fang) Regularization of linear discrete-time periodic descriptor systems by derivative and proportional state feedback. (English summary) **2005b:93026**
Lesnic, Daniel *see* **Marin, Liviu**, **2005i:65214**
Lin, Wen Wei *see* **Kuo, Yuen-Cheng et al.**, **2005b:93026**
Ling, Yi[1] *see* **Liu, Fengshan et al.**, **2005c:42038**
Liu, Fengshan (*with* Ling, Yi[1]; Xia, Xiang-Gen; Shi, Xi Quan[2]) Wavelet methods for ground penetrating radar imaging. (English summary) **2005c:42038**
Marin, Liviu (*with* Lesnic, Daniel) The method of fundamental solutions for the Cauchy problem associated with two-dimensional Helmholtz-type equations. (English summary) **2005i:65214**
Miao, Guo Ping *see* **You, Yun Xiang**, **2005e:65081**
Nachaoui, Abdeljalil Numerical linear algebra for reconstruction inverse problems. (English summary) **2005e:65177**
Ramm, Alexander G. Discrepancy principle for the dynamical systems method. (English summary) **2005e:47027**
— Corrigendum to: "Discrepancy principle for the dynamical systems method" [Commun. Nonlinear Sci. Numer. Simul. **10** (2005), no. 1, 95–101; MR2090273 (2005e:47027)].
Regińska, Teresa Regularization of discrete ill-posed problems. (English summary) **2005h:65092**
Reich, Simeon (*with* Xu, Hong-Kun) An iterative approach to a constrained least squares problem [MR1983077 (2004c:65062)]. (*see* **2005d:00015**)
Renaut, Rosemary A. (*with* Guo, Hongbin) Efficient algorithms for solution of regularized total least squares. (English summary) **2005k:65085**
Serra Capizzano, Stefano A note on antireflective boundary conditions and fast deblurring models. (English summary) **2005e:94013**
Shi, Xi Quan[2] *see* **Liu, Fengshan et al.**, **2005c:42038**
Sleijpen, Gerard L. G. *see* **van den Eshof, Jasper**, **2005c:65024**
Xia, Xiang-Gen *see* **Liu, Fengshan et al.**, **2005c:42038**
Xu, Hong-Kun *see* **Reich, Simeon**, (**2005d:00015**)
Xu, Shu-Fang *see* **Kuo, Yuen-Cheng et al.**, **2005b:93026**
You, Yun Xiang (*with* Miao, Guo Ping) Numerical method for the shape reconstruction of a hard target. (Chinese. English and Chinese summaries) **2005e:65081**
Zasyad'ko, A. A. Comparing the Tikhonov method and the multicriterial optimization method for the solution of the signal restoration problem. (Russian. English, Russian and

Ukrainian summaries) **2005k:65299**
Zheng, Yao *see* **Jin, Bangti**, **2005k:65269**

65F25 Orthogonalization

Corless, Robert M. (*with* Watt, Stephen M.; Zhi, Lihong) *QR* factoring to compute the GCD of univariate approximate polynomials. (English summary) **2005i:65064**
Dax, Achiya Computing projections via Householder transformations and Gram-Schmidt orthogonalizations. (English summary) **2005f:65063**
Giraud, Luc (*with* Langou, Julien) A robust criterion for the modified Gram-Schmidt algorithm with selective reorthogonalization. (English summary) **2005d:65064**
Hanson, Richard J. (*with* Hopkins, Tim) Algorithm 830: another visit with standard and modified Givens transformations and a remark on Algorithm 539. (English summary) **2005b:65047**
Hopkins, Tim *see* **Hanson, Richard J.**, **2005b:65047**
Ikramov, Kh. D. (*with* Matin far, M.) On the computer algebra implementation of the method of least squares on the nonnegative orthant. (Russian. English and Russian summaries) **2005i:65065**
Kressner, D. Block algorithms for orthogonal symplectic factorizations. (English summary) **2005d:65065**
Langou, Julien *see* **Giraud, Luc**, **2005d:65064**
Lu, Lin Zhang *see* **Zhuang, Wei-fen**
Matin far, M. *see* **Ikramov, Kh. D.**, **2005i:65065**
Petcu, Dana (*with* Popa, Constantin) On the parallel implementation of Kovarik's approximate orthogonalization algorithm. (English summary) **2005g:65074**
Popa, Constantin *see* **Petcu, Dana**, **2005g:65074**
Voevodin, Valentin Vasil'evich Orthogonal and pseudoorthogonal bases.
Watt, Stephen M. *see* **Corless, Robert M. et al.**, **2005i:65064**
Zhi, Lihong *see* **Corless, Robert M. et al.**, **2005i:65064**
Zhuang, Wei-fen (*with* Lu, Lin Zhang) On the monotonicity of convergence rate of modified Gauss-Seidel method. (English summary)

Items with secondary classifications in 65F25

Ahmed, Waleed Abd El Maguid *see* **Hanna, Magdy Tawfik et al.**, **2005h:65059**
Astola, Jaakko T. *see* **Tunyan, K. et al.**, **2005j:65043**
Chandrasekaran, Shivkumar (*with* Gu, Ming[1]) Fast and stable algorithms for banded plus semiseparable systems of linear equations. (English summary) **2005f:65039**
Egiazarian, Karen O. *see* **Tunyan, K. et al.**, **2005j:65043**
Gu, Ming[1] *see* **Chandrasekaran, Shivkumar**, **2005f:65039**
Hanna, Magdy Tawfik (*with* Seif, Nabila Philip Attalla; Ahmed, Waleed Abd El Maguid) Hermite-Gaussian-like eigenvectors of the discrete Fourier transform matrix based on the singular-value decomposition of its orthogonal projection matrices. (English summary) **2005h:65059**
Ikeda, Kazushi *see* **Wang, Youhua et al.**, **2005d:94042**
Nakayama, Kenji *see* **Wang, Youhua et al.**, **2005d:94042**
Popescu, Elena (*with* Ştefănescu, Mirela) A QR-factorization method for least-squares problems of linear inequalities with constraints. (English summary) **2005c:90062**
Seif, Nabila Philip Attalla *see* **Hanna, Magdy Tawfik et al.**, **2005h:65059**
Ştefănescu, Mirela *see* **Popescu, Elena**, **2005c:90062**
Tuniev, Albert *see* **Tunyan, K. et al.**, **2005j:65043**
Tunyan, K. (*with* Egiazarian, Karen O.; Tuniev, Albert; Astola, Jaakko T.) An efficient approach to the linear least squares problem. (English summary) **2005j:65043**
Wang, Youhua (*with* Ikeda, Kazushi; Nakayama, Kenji) A numerically stable fast Newton-type adaptive filter based on order recursive least squares algorithm. (English summary) **2005d:94042**

65F30 Other matrix algorithms

Aimi, A. (*with* Bassotti Rizza, Lucilla; Diligenti, Mauro) Groups of congruences and restriction matrices. (English summary) **2005b:65048**
Basilio, J. C. (*with* Moreira, M. V.) A robust solution of the generalized polynomial Bezout identity. (English summary) **2005h:65069**
Bassotti Rizza, Lucilla *see* **Aimi, A. et al.**, **2005b:65048**
Bhatia, Rajendra (*with* Elsner, Ludwig) Higher order logarithmic derivatives of matrices in the spectral norm. (English summary) **2005b:65049**
Bini, Dario A. (*with* Higham, Nicholas J.; Meini, Beatrice) Algorithms for the matrix pth root. (English summary) **2005m:65094**
Bose, N. K. (*with* Fettweis, Alfred) Skew symmetry and othogonality in the equivalent representation problem of a time-varying multiport inductor. (English summary) **2005h:65070**
Chang, Qian Shun (*with* Chern, I-Liang) Acceleration methods for total variation-based image denoising. (English summary) **2005f:65064**
Chen, Hong Jian (*with* Li, Kai Rong; Luo, Jia Qi) Fast and scalable algorithms for matrix power computation and their applications. (Chinese. English and Chinese summaries)
Chern, I-Liang *see* **Chang, Qian Shun**, **2005f:65064**
Del Buono, Nicoletta (*with* Lopez, Luciano) A survey on methods for computing matrix exponentials in numerical schemes for ODEs. (English summary) (*see* **2005c:00015**)
Diligenti, Mauro *see* **Aimi, A. et al.**, **2005b:65048**
Du, Kui The iterative methods for computing the polar decomposition of rank-deficient matrix. (English summary) **2005h:65071**
Elsner, Ludwig *see* **Bhatia, Rajendra**, **2005b:65049**
Fenn, Markus (*with* Potts, Daniel) Fast summation based on fast trigonometric transforms at non-equispaced nodes. (English summary) **2005k:65087**
Fettweis, Alfred *see* **Bose, N. K.**, **2005h:65070**
Gao, Shu Ping (*with* Liu, San Yang) Algorithms for finding the minimal polynomials and inverses of resultant matrices. (English summary) **2005h:65072**
Higham, Nicholas J. (*with* Mackey, D. Steven; Mackey, Niloufer; Tisseur, Françoise) Computing the polar decomposition and the matrix sign decomposition in matrix groups. (English summary) **2005i:65066**
— (*with* Mackey, D. Steven; Mackey, Niloufer; Tisseur, Françoise) Functions preserving matrix groups and iterations for the matrix square root. (English summary) **2005m:65095**
— *see also* **Bini, Dario A. et al.**, **2005m:65094**
Hu, Xi Yan *see* **Zhou, Fu Zhao**, **2005m:65098**
Huang, Jian Guo (*with* Mu, Jian-fei; Zhou, Jie-yong) On the volume-preserving procrustes problem. (English summary)
Huang, Ting-Zhu (*with* Li, Cheng) An iterative algorithm for searching a scaling matrix for diagonal dominance. (English summary) **2005m:65096**
Kaporin, Igor The aggregation and cancellation techniques as a practical tool for faster matrix multiplication. (English summary) **2005d:65066**
Li, Cheng *see* **Huang, Ting-Zhu**, **2005m:65096**
Li, Jing-Rebecca (*with* White, Jacob) Low-rank solution of Lyapunov equations. (English summary)
Li, Kai Rong *see* **Chen, Hong Jian et al.**
Liu, San Yang *see* **Gao, Shu Ping**, **2005h:65072**
Lopez, Luciano *see* **Del Buono, Nicoletta**, (**2005c:00015**)
Luo, Jia Qi *see* **Chen, Hong Jian et al.**
Luther, Uwe (*with* Rost, Karla) Matrix exponentials and inversion of confluent Vandermonde matrices. (English summary) **2005k:65088**
Mackey, D. Steven *see* **Higham, Nicholas J. et al.**, **2005i:65066** *and* **2005m:65095**
Mackey, Niloufer *see* **Higham, Nicholas J. et al.**, **2005i:65066** *and* **2005m:65095**
Meini, Beatrice *see* **Bini, Dario A. et al.**, **2005m:65094**
Moreira, M. V. *see* **Basilio, J. C.**, **2005h:65069**
Moret, Igor (*with* Novati, P.) RD-rational approximations of the matrix exponential. (English summary) **2005h:65073**
— (*with* Novati, P.) Interpolating functions of matrices on zeros of quasi-kernel polynomials. (English summary) **2005m:65097**
Mu, Jian-fei *see* **Huang, Jian Guo et al.**
Nagy, James G. (*with* Ng, Michael K.; Perrone, Lisa) Kronecker product approximations for image restoration with reflexive boundary conditions. (English summary) **2005h:65074**
Ng, Michael K. *see* **Nagy, James G. et al.**, **2005h:65074**
Novati, P. *see* **Moret, Igor**, **2005h:65073** *and* **2005m:65097**
Olshevsky, Vadim (*with* Shokrollahi, Mohammad Amin) Matrix-vector product for confluent Cauchy-like matrices with application to confluent rational interpolation. (*see* **2005i:68003**)
Perrone, Lisa *see* **Nagy, James G. et al.**, **2005h:65074**
Potts, Daniel *see* **Fenn, Markus**, **2005k:65087**
Rost, Karla *see* **Luther, Uwe**, **2005k:65088**
Shokrollahi, Mohammad Amin *see* **Olshevsky, Vadim**, (**2005i:68003**)
Tisseur, Françoise *see* **Higham, Nicholas J. et al.**, **2005i:65066** *and* **2005m:65095**
Wang, Ming Hui (*with* Wei, Mu Sheng) Weighted least-squares Hermite solution of the matrix equation $AXB = E$. (Chinese. English summary) **2005h:65075**
Wei, Mu Sheng *see* **Wang, Ming Hui**, **2005h:65075**
White, Jacob *see* **Li, Jing-Rebecca**
Winkler, Joab R. Properties of the companion matrix resultant for Bernstein polynomials. (English summary) (*see* **2004m:65003**)
Yang, Qingzhi The relaxed CQ algorithm solving the split feasibility problem. (English summary) **2005e:65058**
Zhou, Fu Zhao (*with* Hu, Xi Yan) The inverse problem of anti-symmetric ortho-symmetric matrices. (Chinese. English and Chinese summaries) **2005m:65098**
Zhou, Jie-yong *see* **Huang, Jian Guo et al.**

Items with secondary classifications in 65F30

Agaian, Sos (*with* Sarukhanyan, A. G.; Astola, Jaakko T.) Skew Williamson-Hadamard transforms. (English summary) **2005j:94008**
Astola, Jaakko T. *see* **Agaian, Sos et al.**, **2005j:94008**
Azevedo-Perdicoúlis, Teresa Paula (*with* Jank, Gerhard) Iterative solution of algebraic matrix Riccati equations in open loop Nash games. (English summary) **2005g:91044**
Bai, Zhao-jun (*with* Su, Yang Feng) Dimension reduction of large-scale second-order dynamical systems via a second-order Arnoldi method. (English summary) **2005m:65310**
Bochev, Pavel B. (*with* Gunzburger, Max D.) An absolutely stable pressure-Poisson stabilized finite element method for the Stokes equations. (English summary) **2005k:65223**
Brugnano, Luigi (*with* Magherini, Cecilia) Some linear algebra issues concerning the implementation of blended implicit methods. (English summary) **2005m:65125**
Bueno, María Isabel (*with* Dopico, Froilán M.) Stability and sensitivity of Darboux transformation without parameter. (English summary) **2005m:42035**
Burrage, Kevin *see* **Sidje, Roger B. et al.**, (**2005g:00014**)
Chang, Dong-Xia (*with* Feng, Da-Zheng; Zheng, Wei Xing[1]; Li, Lei) A fast recursive total least squares algorithm for adaptive IIR filtering. (English summary) **2005i:93093**
Chehab, J. P. (*with* Costa, Bruno) Multiparameter schemes for evolutionary equations. (English summary) **2005a:65096**
Chen, Tian Ping *see* **Hua, Yingbo**, **2005c:94016**
Ching, Wai Ki (*with* Ng, Michael K.; Sze, Kenton N.; Yau, Andy C.) Super-resolution image reconstruction using multisensors. (English summary)
Costa, Bruno *see* **Chehab, J. P.**, **2005a:65096**
Defez, E. (*with* Hervás, A.; Jódar, Lucas; Law, Alan G.) Bounding Hermite matrix polynomials. (English summary) **2005g:15033**
Del Buono, Nicoletta (*with* Lopez, Luciano) Numerical integration of a class of ordinary differential equations on the general linear group of matrices. (English summary) **2005b:65072**
Dieci, Luca (*with* Elia, Cinzia; Lopez, Luciano) Smooth SVD on the Lorentz group with application to computation of Lyapunov exponents. (English summary) **2005b:15014**
Dopico, Froilán M. *see* **Bueno, María Isabel**, **2005m:42035**
Elia, Cinzia *see* **Dieci, Luca et al.**, **2005b:15014**
Feijóo, Gonzalo R. A new method in inverse scattering based on the topological derivative. (English summary) **2005h:35359**
Feng, Da-Zheng *see* **Chang, Dong-Xia et al.**, **2005i:93093**

Feng, Lihong Parameter independent model order reduction. (English summary) **2005k:93036**
Frieze, Alan (*with* Kannan, Ravi; Vempala, Santosh S.) Fast Monte-Carlo algorithms for finding low-rank approximations. (English summary) **2005m:65006**
Fürer, Martin Approximating permanents of complex matrices. (*see* **2005i:68003**)
Gassó, M. (*with* Torregrosa Sánchez, Juan Ramón) A totally positive factorization of rectangular matrices by the Neville elimination. (English summary) **2005h:15044**
Gavrilyuk, Ivan P. (*with* Hackbusch, Wolfgang; Khoromskiĭ, B. N.) Data-sparse approximation to the operator-valued functions of elliptic operator. (English summary) **2005b:47086**
— (*with* Hackbusch, Wolfgang; Khoromskiĭ, B. N.) Data-sparse approximation to a class of operator-valued functions. (English summary) **2005i:65068**
Grasedyck, Lars Existence of a low rank or $\mathscr{H}$-matrix approximant to the solution of a Sylvester equation. (English summary) **2005e:15016**
Gunzburger, Max D. *see* **Bochev, Pavel B., 2005k:65223**
Hackbusch, Wolfgang *see* **Gavrilyuk, Ivan P. et al., 2005b:47086** *and* **2005i:65068**
Hervás, A. *see* **Defez, E. et al., 2005g:15033**
Hu, Xi Yan *see* **Peng, Zhen Yun et al., 2005m:15037**
Hua, Yingbo (*with* Chen, Tian Ping) On convergence of the NIC algorithm for subspace computation. (English summary) **2005c:94016**
Jank, Gerhard *see* **Azevedo-Perdicoúlis, Teresa Paula, 2005g:91044**
Jódar, Lucas *see* **Defez, E. et al., 2005g:15033**
Kalaba, Robert E. (*with* Natsuyama, H.) Dynamic programming and minimal norm solutions of least squares problems. **2005e:90147**
Kalogeropoulos, G. (*with* Psarrakos, Panayiotis J.; Karcanias, Nicos) On the computation of the Jordan canonical form of regular matrix polynomials. (English summary) **2005e:15013**
Kannan, Ravi *see* **Frieze, Alan et al., 2005m:65006**
Karcanias, Nicos *see* **Kalogeropoulos, G. et al., 2005e:15013**
Khoromskiĭ, B. N. *see* **Gavrilyuk, Ivan P. et al., 2005b:47086** *and* **2005i:65068**
Koval′chuk, O. Ya. (*with* Nedashkovs′kiĭ, M. O.) Solution of matrix equations by branching continued fractions. (Russian. English and Ukrainian summaries) **2005f:15017**
Kriemann, R. Parallel $\mathscr{H}$-matrix arithmetics on shared memory systems. (English summary)
Law, Alan G. *see* **Defez, E. et al., 2005g:15033**
Li, Lei *see* **Chang, Dong-Xia et al., 2005i:93093**
Lopez, Luciano *see* **Dieci, Luca et al., 2005b:15014** *and* **Del Buono, Nicoletta, 2005b:65072**
Magherini, Cecilia *see* **Brugnano, Luigi, 2005m:65125**
Natsuyama, H. *see* **Kalaba, Robert E., 2005e:90147**
Nedashkovs′kiĭ, M. O. *see* **Koval′chuk, O. Ya., 2005f:15017**
Ng, Michael K. *see* **Ching, Wai Ki et al.**
Peng, Zhen Yun (*with* Hu, Xi Yan; Zhang, Lei[1]) One kind of inverse problems for symmetric and skew anti-symmetric matrices. (Chinese. English summary) **2005m:15037**
Philippe, B. *see* **Sidje, Roger B. et al., (2005g:00014)**
Popović, Nikola (*with* Praetorius, Dirk) Applications of $\mathscr{H}$-matrix techniques in micromagnetics. (English summary) **2005m:78002**
Praetorius, Dirk *see* **Popović, Nikola, 2005m:78002**
Psarrakos, Panayiotis J. *see* **Kalogeropoulos, G. et al., 2005e:15013**
Rimas, Jonas On computing of arbitrary positive integer powers for one type of odd order symmetric circulant matrices. I. (English summary) **2005m:15080**
Sarukhanyan, A. G. *see* **Agaian, Sos et al., 2005j:94008**
Saunders, B. David (*with* Wan, Zhendong) Smith normal form of dense integer matrices, fast algorithms into practice. (English summary) **2005k:15039**
Sidje, Roger B. (*with* Burrage, Kevin; Philippe, B.) An augmented Lanczos algorithm for the efficient computation of a dot-product of a function of a large sparse symmetric matrix. (English summary) (*see* **2005g:00014**)
Silbermann, Bernd How to compute the partial indices of a regular and smooth matrix-valued function? (English summary) **2005a:47038**
Spielman, Daniel A. (*with* Teng, Shang-Hua) Nearly-linear time algorithms for graph partitioning, graph sparsification, and solving linear systems. (English summary) **2005i:05188**
Stefanovski, Jovan Discrete J-spectral factorization of possibly singular polynomial matrices. (English summary) **2005d:93033**
Su, Yang Feng *see* **Bai, Zhao-jun, 2005m:65310**
Sze, Kenton N. *see* **Ching, Wai Ki et al.**
Teng, Shang-Hua *see* **Spielman, Daniel A., 2005i:05188**
Torregrosa Sánchez, Juan Ramón *see* **Gassó, M., 2005h:15044**
Tyrtyshnikov, E. E. Kronecker-product approximations for some function-related matrices. (English summary) **2005d:15005**
Vempala, Santosh S. *see* **Frieze, Alan et al., 2005m:65006**
Wan, Zhendong *see* **Saunders, B. David, 2005k:15039**
Wang, Guo Rong[1] (*with* Zheng, Bing) Leverrier's algorithm for m-D system. (English summary) **2005m:93053**
Yau, Andy C. *see* **Ching, Wai Ki et al.**
Zhang, Lei[1] *see* **Peng, Zhen Yun et al., 2005m:15037**
Zheng, Bing *see* **Wang, Guo Rong[1], 2005m:93053**
Zheng, Wei Xing[1] *see* **Chang, Dong-Xia et al., 2005i:93093**

65F35 Matrix norms, conditioning, scaling [see also 15A12, 15A60]

Arıkan, Orhan *see* **Pınar, Mustafa Ç., 2005e:65060**
Beltrán Alvarez, Carlos (*with* Pardo, Luis Miguel) Upper bounds on the distribution of the condition number of singular matrices. (English and French summaries)
Böttcher, Albrecht (*with* Grudskiĭ, Sergeĭ M.) Structured condition numbers of large Toeplitz matrices are rarely better than usual condition numbers. (English summary) **2005k:65089**
Cui, Xiaoke Bounds on condition number of a singular matrix and its applications. (English summary) **2005m:65099**
Emelianenko, M. G. *see* **Emel′yanenko, G. A. et al., (2005i:65006)**
Emel′yanenko, G. A. (*with* Samoilov, V. N.; Emelianenko, M. G.) The uncertainty principle in numerical linear algebra. (English summary) (*see* **2005i:65006**)
Grudskiĭ, Sergeĭ M. *see* **Böttcher, Albrecht, 2005k:65089**
Hochstenbach, Michiel E. (*with* Plestenjak, Bor) Backward error, condition numbers, and pseudospectra for the multiparameter eigenvalue problem. (English summary) **2005a:65043**
Konstantinov, Mikhail M. (*with* Petkov, Petko Khr.) Sensitivity analysis of unitary matrix decompositions. **2005f:65065**
Li, Xin-xiu (*with* Liu, Xin Guo[1]) Structured backward errors for structured KKT systems. (English summary) **2005e:65059**
— (*with* Nie, Xiaobing) Rice condition numbers of QR and Cholesky factorizations. (English and Chinese summaries) **2005d:65067**
Liu, Xin Guo[1] (*with* Wang, Wei Guo) Perturbation analysis for structured KKT systems. (Chinese. English summary) **2005h:65076**
— *see also* **Li, Xin-xiu, 2005e:65059**
Nie, Xiaobing *see* **Li, Xin-xiu, 2005d:65067**
Pardo, Luis Miguel *see* **Beltrán Alvarez, Carlos**
Petkov, Petko Khr. *see* **Konstantinov, Mikhail M., 2005f:65065**
Pınar, Mustafa Ç. (*with* Arıkan, Orhan) On robust solutions to linear least squares problems affected by data uncertainty and implementation errors with application to stochastic signal modeling. (English summary) **2005e:65060**
Plestenjak, Bor *see* **Hochstenbach, Michiel E., 2005a:65043**
Samoilov, V. N. *see* **Emel′yanenko, G. A. et al., (2005i:65006)**
Suchomski, Piotr Numerically robust delta-domain solutions to discrete-time Lyapunov equations. (English summary) **2005a:65044**
Sun, Ji-Guang Structured backward error for the linear system $A^T Ax = b$. (English and Chinese summaries)
Wang, Wei Guo *see* **Liu, Xin Guo[1], 2005h:65076**
Zhang, Nai-min Structure perturbations in singular case. (English and Chinese summaries)

Items with secondary classifications in 65F35

Alam, Rafikul (*with* Bora, Shreemayee) On ε-spectral analysis of matrices. (English summary) (*see* **2005d:47001**)
Azaïs, Jean-Marc (*with* Wschebor, Mario) Upper and lower bounds for the tails of the distribution of the condition number of a Gaussian matrix. (English summary) **2005k:15016**
Bazán, Fermín S. V. *see* **Kraemer, E. L., 2005a:15024**
Beuchler, S. (*with* Schneider, Reinhold; Schwab, Christoph) Multiresolution weighted norm equivalences and applications. (English summary) **2005g:65199**
Boman, Erik G. (*with* Hendrickson, Bruce A.) Support theory for preconditioning. (English summary) **2005g:65049**
Bora, Shreemayee *see* **Alam, Rafikul, (2005d:47001)**
Bru, Rafael (*with* Pedroche Sánchez, Francisco; Szyld, Daniel B.) Overlapping additive and multiplicative Schwarz iterations for H-matrices. (English summary) **2005i:65042**
Byers, Ralph (*with* Kressner, D.) On the condition of a complex eigenvalue under real perturbations. (English summary) **2005e:65047**
Cao, Yang[2] (*with* Petzold, Linda R.) An error estimate for matrix equations. (English summary) **2005g:15025**
Chen, Guo Liang[1] (*with* Wei, Yi Min; Xue, Yifeng) The generalized condition numbers of bounded linear operators in Banach spaces. (English summary) **2005e:65069**
Chu, Eric King-wah Perturbation of eigenvalues for matrix polynomials via the Bauer-Fike theorems. (English summary) **2005g:65068**
Cucker, Felipe (*with* Wschebor, Mario) On the expected condition number of linear programming problems. (English summary) **2005m:90172**
Cuesta-Albertos, Juan A. (*with* Wschebor, Mario) Condition numbers and extrema of random fields. (English summary) **2005i:15039**
Hendrickson, Bruce A. *see* **Boman, Erik G., 2005g:65049**
Higham, Desmond J. A matrix perturbation view of the small world phenomenon. (English summary) **2005f:60158**
Ivanov, Ivan Ganchev Perturbation analysis for solutions of $X \pm A^* X^{-n} A = Q$. (English summary) **2005m:15035**
Jensen, D. R. Condition numbers and D-efficiency. (English summary) **2005a:62172**
Ji, Jun (*with* Wei, Yi Min) A note on the sensitivity of the solution of the weighted linear least squares problem. (English summary) **2005d:15012**
Kraemer, E. L. (*with* Bazán, Fermín S. V.) Some non-normality measures of matrices. (Portuguese. English and Portuguese summaries) **2005a:15024**
Kressner, D. *see* **Byers, Ralph, 2005e:65047**
Langlois, Philippe More accuracy at fixed precision. (English summary) **2005d:65072**
Liu, Xin Guo[1] (*with* Wang, Xue Feng[3]) Structured sensitivity analysis for a class of KKT systems. (Chinese. English and Chinese summaries) **2005k:90163**
Monteiro, Renato D. C. (*with* O'Neal, Jerome W.; Tsuchiya, Takashi[1]) Uniform boundedness of a preconditioned normal matrix used in interior-point methods. (English summary) **2005h:90166**
O'Neal, Jerome W. *see* **Monteiro, Renato D. C. et al., 2005h:90166**
Pedroche Sánchez, Francisco *see* **Bru, Rafael et al., 2005i:65042**
Peña, Juan Manuel Scaled pivots and scaled partial pivoting strategies. (English summary) **2005e:65031**
Petzold, Linda R. *see* **Cao, Yang[2], 2005g:15025**
Santiago, Cosmo D. (*with* Yuan, Jin Yun) Modified ST algorithms and numerical experiments. (English summary) **2005b:15028**
Schneider, Reinhold *see* **Beuchler, S. et al., 2005g:65199**
Schwab, Christoph *see* **Beuchler, S. et al., 2005g:65199**
Singer, Sanja (*with* Singer, Saša) Relative perturbations, rank stability and zero patterns of matrices. (English summary) **2005k:15003**
Singer, Saša *see* **Singer, Sanja, 2005k:15003**
Szyld, Daniel B. *see* **Bru, Rafael et al., 2005i:65042**
Tsuchiya, Takashi[1] *see* **Monteiro, Renato D. C. et al., 2005h:90166**
Wang, Dingkun Some topics on weighted Moore-Penrose inverse, weighted least squares and weighted regularized Tikhonov problems. (English summary) **2005g:65073**
— *see also* **Wei, Yi Min, 2005e:15007**

Wang, Xue Feng[3] *see* **Liu, Xin Guo[1], 2005k:90163**
Wei, Yi Min (*with* Wang, Dingkun) Condition numbers and perturbation of the weighted Moore-Penrose inverse and weighted linear least squares problem. (English summary) **2005e:15007**
— *see also* **Ji, Jun, 2005d:15012**; **Chen, Guo Liang[1] et al., 2005e:65069** *and* **Zhou, Jie-yong, 2005h:65067**
Wschebor, Mario Smoothed analysis of $\kappa(A)$. (English summary) **2005g:15041**
— *see also* **Cuesta-Albertos, Juan A., 2005i:15039**; **Azaïs, Jean-Marc, 2005k:15016** *and* **Cucker, Felipe, 2005m:90172**
Xue, Yifeng *see* **Chen, Guo Liang[1] et al., 2005e:65069**
Yeung, Man-Chung Probabilistic analysis of complex Gaussian elimination without pivoting. (English summary) **2005c:65020**
Yuan, Jin Yun *see* **Santiago, Cosmo D., 2005b:15028**
Zhou, Jie-yong (*with* Wei, Yi Min) Perturbation analysis of singular linear systems with arbitrary index. (English summary) **2005h:65067**

65F40 Determinants

Marco, Ana (*with* Martínez, José-Javier) Parallel computation of determinants of matrices with polynomial entries. (English summary) **2005f:65066**
Martínez, José-Javier *see* **Marco, Ana, 2005f:65066**
Seifullin, T. R. Acceleration of the calculation of a determination and a characteristic polynomial without division. (Russian. English and Ukrainian summaries) **2005g:65075**

Items with secondary classifications in 65F40

Abu-Saris, Raghib M. (*with* Al-Dosary, Khalil I. T.) Complex exponential Vandermonde determinant with application to discrete boundary value problem. (English summary) **2005f:39009**
Al-Dosary, Khalil I. T. *see* **Abu-Saris, Raghib M., 2005f:39009**
Kaltofen, Erich An output-sensitive variant of the baby steps/giant steps determinant algorithm. **2005e:15008**
— (*with* Villard, Gilles) On the complexity of computing determinants. (English summary) **2005m:68263**
Villard, Gilles *see* **Kaltofen, Erich, 2005m:68263**

65F50 Sparse matrices

Almeida Benítez, Pedro Ramón (*with* Franco Brañas, José Ramón) Minimum degree algorithm for block-factorized sparse linear systems. (Spanish. English and Spanish summaries) **2005i:65067**
Amestoy, Patrick R. (*with* Davis, Timothy A.[1]; Duff, Iain S.) Algorithm 837: AMD, an approximate minimum degree ordering algorithm. (English summary)
— (*with* Duff, Iain S.; Vömel, Christof) Task scheduling in an asynchronous distributed memory multifrontal solver. (English summary) **2005j:65045**
Bianco, Mauro A high-performance UL factorization for the frontal method. (English summary) (*see* **2005g:65008**)
Burrage, Kevin *see* **Sidje, Roger B. et al., (2005g:00014)**
Carlsson, Gunnar (*with* de Silva, Vin) A geometric framework for sparse matrix problems. (English summary) **2005b:65050**
Davis, Timothy A.[1] A column pre-ordering strategy for the unsymmetric-pattern multifrontal method. (English summary) **2005b:65051**
— Algorithm 832: UMFPACK V4.3—an unsymmetric-pattern multifrontal method. (English summary)
— *see also* **Amestoy, Patrick R. et al.**
Duff, Iain S. (*with* Scott, Jennifer A.) A parallel direct solver for large sparse highly unsymmetric linear systems. (English summary) **2005b:65052**
— MA57—a code for the solution of sparse symmetric definite and indefinite systems. (English summary)
— (*with* Scott, Jennifer A.) Stabilized bordered block diagonal forms for parallel sparse solvers. (English summary) **2005m:65100**
— *see also* **Amestoy, Patrick R. et al., 2005j:65045**
Franco Brañas, José Ramón *see* **Almeida Benítez, Pedro Ramón, 2005i:65067**
Gavrilyuk, Ivan P. (*with* Hackbusch, Wolfgang; Khoromskiĭ, B. N.) Data-sparse approximation to a class of operator-valued functions. (English summary) **2005i:65068**
Hackbusch, Wolfgang *see* **Gavrilyuk, Ivan P. et al., 2005i:65068**
Khoromskiĭ, B. N. *see* **Gavrilyuk, Ivan P. et al., 2005i:65068**
Kincaid, David R. *see* **Pilipchuk, Ludmila A. et al., 2005a:65045**
Kumar, Bipin *see* **Ratish Kumar, B. V., 2005m:65101**
Lai, Minghorng *see* **Pilipchuk, Ludmila A. et al., 2005a:65045**
Malakhouskaya, Yulia V. *see* **Pilipchuk, Ludmila A. et al., 2005a:65045**
Philippe, B. *see* **Sidje, Roger B. et al., (2005g:00014)**
Pilipchuk, Ludmila A. (*with* Malakhouskaya, Yulia V.; Kincaid, David R.; Lai, Minghorng) Algorithms of solving large sparse underdetermined linear systems with embedded network structure. (English summary) **2005a:65045**
Ratish Kumar, B. V. (*with* Kumar, Bipin) On the development of parallel sparse CGM solver for CFD computations on Anu-cluster. (English summary) **2005m:65101**
Scott, Jennifer A. Parallel frontal solvers for large sparse linear systems. (English summary) **2005b:65053**
— Multilevel hybrid spectral element ordering algorithms. (English summary)
— *see also* **Duff, Iain S., 2005b:65052** *and* **2005m:65100**
Sidje, Roger B. (*with* Burrage, Kevin; Philippe, B.) An augmented Lanczos algorithm for the efficient computation of a dot-product of a function of a large sparse symmetric matrix. (English summary) (*see* **2005g:00014**)
de Silva, Vin *see* **Carlsson, Gunnar, 2005b:65050**
Vömel, Christof *see* **Amestoy, Patrick R. et al., 2005j:65045**

Items with secondary classifications in 65F50

Arbenz, Peter (*with* Hochstenbach, Michiel E.) A Jacobi-Davidson method for solving complex symmetric eigenvalue problems. (English summary) **2005g:65067**
Aykanat, Cevdet (*with* Pinar, Ali; Çatalyürek, Ümit V.) Permuting sparse rectangular matrices into block-diagonal form. (English summary) **2005h:05129**
— *see also* **Uçar, Bora, 2005g:05092**
Bai, Yihua (*with* Gansterer, Wilfried N.; Ward, Robert C.) Block tridiagonalization of "effectively" sparse symmetric matrices. (English summary) **2005i:65034**
Bai, Zhong Zhi (*with* Golub, Gene H.; Lu, Lin Zhang; Yin, Jun-Feng) Block triangular and skew-Hermitian splitting methods for positive-definite linear systems. (English summary) **2005m:65054**
Baumann, Markus (*with* Fleischmann, Peter[2]; Mutzbauer, Otto) Double ordering and fill-in for the LU factorization. (English summary) **2005f:65038**
Benzi, Michele (*with* Tůma, Miroslav) A robust preconditioner with low memory requirements for large sparse least squares problems. (English summary) **2005e:65054**
Buchholz, Peter (*with* Dayar, Tuğrul) Block SOR preconditioned projection methods for Kronecker structured Markovian representations. (English summary)
Çatalyürek, Ümit V. *see* **Aykanat, Cevdet et al., 2005h:05129**
Censor, Yair (*with* Elfving, Tommy) Iterative algorithms with seminorm-induced oblique projections [MR1982660 (2004c:90038)]. (*see* **2005d:00015**)
Chow, Edmond Ten-Fu *see* **Li, Na[1] et al., 2005g:65060**
Davis, Timothy A.[1] (*with* Gilbert, John Russell; Larimore, Stefan I.; Ng, Esmond G.) A column approximate minimum degree ordering algorithm. (English summary) **2005i:65035**
— (*with* Gilbert, John Russell; Larimore, Stefan I.; Ng, Esmond G.) Algorithm 836: COLAMD, a column approximate minimum degree ordering algorithm. (English summary)
Dayar, Tuğrul *see* **Buchholz, Peter**
Elfving, Tommy *see* **Censor, Yair, (2005d:00015)**
Fang, Min *see* **Zhang, Zhen Yue et al., 2005i:65053**
Fleischmann, Peter[2] *see* **Baumann, Markus et al., 2005f:65038**
Gansterer, Wilfried N. *see* **Bai, Yihua et al., 2005i:65034**
Gilbert, John Russell *see* **Davis, Timothy A.[1] et al., 2005i:65035**
Golub, Gene H. *see* **Bai, Zhong Zhi et al., 2005m:65054**
Gould, Nicholas I. M. (*with* Scott, Jennifer A.) A numerical evaluation of HSL packages for the direct solution of large sparse, symmetric linear systems of equations. (English summary) **2005i:65036**
Grasedyck, Lars Existence and computation of low Kronecker-rank approximations for large linear systems of tensor product structure. (English summary) **2005j:65130**
Hochstenbach, Michiel E. *see* **Arbenz, Peter, 2005g:65067**
Larimore, Stefan I. *see* **Davis, Timothy A.[1] et al., 2005i:65035**
Li, Na[1] (*with* Saad, Youcef; Chow, Edmond Ten-Fu) Crout versions of ILU for general sparse matrices. (English summary) **2005g:65060**
Lintner, M. The eigenvalue problem for the 2D Laplacian in $\mathscr{H}$-matrix arithmetic and application to the heat and wave equation. (English summary) **2005j:65040**
Lu, Lin Zhang *see* **Bai, Zhong Zhi et al., 2005m:65054**
Mutzbauer, Otto *see* **Baumann, Markus et al., 2005f:65038**
Nabben, R. (*with* Vuik, C.) A comparison of deflation and coarse grid correction applied to porous media flow. (English summary) **2005k:65071**
Ng, Esmond G. *see* **Davis, Timothy A.[1] et al., 2005i:65035**
Nieslony, Arthur *see* **Potts, Daniel et al., 2005f:65184**
Pinar, Ali *see* **Aykanat, Cevdet et al., 2005h:05129**
Potts, Daniel (*with* Steidl, Gabriele; Nieslony, Arthur) Fast convolution with radial kernels at nonequispaced knots. (English summary) **2005f:65184**
Raghavan, Padma *see* **Teranishi, Keita et al., (2005g:65008)**
Rotkin, Vladimir (*with* Toledo, Sivan) The design and implementation of a new out-of-core sparse Cholesky factorization method. (English summary) **2005b:65028**
Saad, Youcef *see* **Li, Na[1] et al., 2005g:65060**
Scott, Jennifer A. *see* **Gould, Nicholas I. M., 2005i:65036**
Simon, Horst D. *see* **Zhang, Zhen Yue et al., 2005h:15038**
Sleijpen, Gerard L. G. (*with* Wubs, Fred W.) Exploiting multilevel preconditioning techniques in eigenvalue computations. (English summary) **2005a:65040**
Steidl, Gabriele *see* **Potts, Daniel et al., 2005f:65184**
Teranishi, Keita (*with* Raghavan, Padma; Yang, Chao[2]) Time-memory trade-offs using sparse matrix methods for large-scale eigenvalue problems. (English summary) (*see* **2005g:65008**)
Toledo, Sivan *see* **Rotkin, Vladimir, 2005b:65028**
Tůma, Miroslav *see* **Benzi, Michele, 2005e:65054**
Uçar, Bora (*with* Aykanat, Cevdet) Encapsulating multiple communication-cost metrics in partitioning sparse rectangular matrices for parallel matrix-vector multiplies. (English summary) **2005g:05092**
van der Vorst, Henk A. ★ Iterative Krylov methods for large linear systems. **2005k:65075**
Voss, Heinrich A variant of the inverted Lanczos method. (English summary) **2005c:65034**
Vuik, C. *see* **Nabben, R., 2005k:65071**
Wang, Jing *see* **Zhang, Zhen Yue et al., 2005i:65053**
Ward, Robert C. *see* **Bai, Yihua et al., 2005i:65034**
Wubs, Fred W. *see* **Sleijpen, Gerard L. G., 2005a:65040**
Yang, Chao[2] *see* **Teranishi, Keita et al., (2005g:65008)**
Yin, Jun-Feng *see* **Bai, Zhong Zhi et al., 2005m:65054**
Ying, Wen Long *see* **Zhang, Zhen Yue et al., 2005i:65053**
Zha, Hong-yuan *see* **Zhang, Zhen Yue et al., 2005h:15038** *and* **2005k:65024**
Zhang, Zhen Yue (*with* Wang, Jing; Fang, Min; Ying, Wen Long) Preconditioning methods with nested simple ILU decomposition. (Chinese. English summary) **2005i:65053**
— (*with* Zha, Hong-yuan; Simon, Horst D.) Low-rank approximations with sparse factors II. Penalized methods with discrete Newton-like iterations. (English summary) **2005h:15038**
— (*with* Zha, Hong-yuan) Principal manifolds and nonlinear dimensionality reduction via tangent space alignment. (English summary) **2005k:65024**

65F99 None of the above, but in this section

Allah Viranloo, Tofigh The Adomian decomposition method for fuzzy system of linear equations. (English summary)

Bartlett, Roscoe A. (*with* van Bloemen Waanders, Bart G.; Heroux, Michael A.) Vector reduction/transformation operators. (English summary) **2005d:65068**
Bini, Dario A. (*with* Gemignani, Luca) Bernstein-Bezoutian matrices. (English summary) **2005g:65076**
van Bloemen Waanders, Bart G. *see* **Bartlett, Roscoe A. et al., 2005d:65068**
Drygalla, Volker *see* **Zielke, Gerhard, 2005d:65069**
Gemignani, Luca *see* **Bini, Dario A., 2005g:65076**
Heath, Lenwood S. (*with* Ribbens, C. J.; Pemmaraju, Sriram V.) Processor-efficient sparse matrix-vector multiplication. (English summary) **2005h:65077**
Heroux, Michael A. *see* **Bartlett, Roscoe A. et al., 2005d:65068**
Joukov, O. D. (*with* Rishe, N. D.) Computer technology for solving large scale matrix problems. (English summary) (*see* **2005g:65008**)
Krivoĭ, S. L. On algorithms for solving systems of linear Diophantine constraints in the domain {0, 1}. (Russian. English and Ukrainian summaries) **2005i:65069**
Pemmaraju, Sriram V. *see* **Heath, Lenwood S. et al., 2005h:65077**
Ribbens, C. J. *see* **Heath, Lenwood S. et al., 2005h:65077**
Rishe, N. D. *see* **Joukov, O. D., (2005g:65008)**
Zielke, Gerhard (*with* Drygalla, Volker) Genaue Lösung linearer Gleichungssysteme. [A sharp solution of linear systems] **2005d:65069**

Items with secondary classifications in 65F99

Böttcher, Albrecht (*with* Rost, Karla) Topics in the numerical linear algebra of Toeplitz and Hankel matrices. (English summary) **2005j:47029**
Elmroth, Erik (*with* Gustavson, Fred G.; Jonsson, Isak; Kågström, Bo) Recursive blocked algorithms and hybrid data structures for dense matrix library software. (English summary) **2005h:65005**
Gustavson, Fred G. *see* **Elmroth, Erik et al., 2005h:65005**
Jonsson, Isak *see* **Elmroth, Erik et al., 2005h:65005**
Kågström, Bo *see* **Elmroth, Erik et al., 2005h:65005**
Rost, Karla *see* **Böttcher, Albrecht, 2005j:47029**
Tachim Medjo, T. (*with* Tcheugoué Tébou, L. R.) Adjoint-based iterative method for robust control problems in fluid mechanics. (English summary) **2005c:65090**
Tcheugoué Tébou, L. R. *see* **Tachim Medjo, T., 2005c:65090**

65Gxx Error analysis and interval analysis

65G20 Algorithms with automatic result verification

Sofroniou, Mark (*with* Spaletta, Giulia) Precise numerical computation. (English summary) **2005m:65102**
Spaletta, Giulia *see* **Sofroniou, Mark, 2005m:65102**

Items with secondary classifications in 65G20

de Figueiredo, Luiz Henrique (*with* Stolfi, Jorge) Affine arithmetic: concepts and applications. (English summary)
Filippov, A. F. *see* **Zolotarëva, N. D., 2005c:65058**
Lakshmikantham, V. (*with* Sen, Syamal Kumar; Mohanty, A.) Error in error-free computation for linear system. (English summary) **2005k:65057**
Mohanty, A. *see* **Lakshmikantham, V. et al., 2005k:65057**
Sen, Syamal Kumar *see* **Lakshmikantham, V. et al., 2005k:65057**
Stolfi, Jorge *see* **de Figueiredo, Luiz Henrique**
Zolotarëva, N. D. (*with* Filippov, A. F.) An estimate for local and global errors in the Störmer method for a system of equations. (Russian. Russian summary) **2005c:65058**

65G30 Interval and finite arithmetic

Abbasbandy, S. (*with* Asady, Babak) The nearest trapezoidal fuzzy number to a fuzzy quantity. (English summary) **2005d:65070**
Aló, Richard *see* **Kreinovich, Vladik, 2005b:65054**
Asady, Babak *see* **Abbasbandy, S., 2005d:65070**
Avot-Chotin, Roselyne (*with* Mehrez, Habib) Hardware implementation of discrete stochastic arithmetic. (English summary)
Claudio, Dalcidio *see* **Markov, Svetoslav M., (2005f:00011)**
Cuyt, A. *see* **Verdonk, B. et al., 2005m:65103**
de Figueiredo, Luiz Henrique (*with* Stolfi, Jorge) Affine arithmetic: concepts and applications. (English summary)
Glazunov, Nikolay M. Interval computations and their categorification. (English summary) **2005k:65090**
Kreinovich, Vladik (*with* Aló, Richard) Interval mathematics for analysis of multi-level granularity. (English summary) **2005b:65054**
— *see also* **Wolff von Gudenberg, Jürgen, 2005k:65091** *and* **Mulupuru, Bharat C. et al.**
Krivsky, Stefanie (*with* Lang, Bruno) Using interval arithmetic for determining the structure of convex hulls. (English summary)
Kulpa, Z. (*with* Markov, Svetoslav M.) On the inclusion properties of interval multiplication: a diagrammatic study. (English summary) **2005d:65071**
Lang, Bruno *see* **Krivsky, Stefanie**
Langlois, Philippe More accuracy at fixed precision. (English summary) **2005d:65072**
Lychak, M. M. *see* **Zelyk, Ya. I., 2005h:65078**
Markov, Svetoslav M. (*with* Claudio, Dalcidio) On the interval arithmetic in midpoint-radius form. (English and Bulgarian summaries) (*see* **2005f:00011**)
— *see also* **Kulpa, Z., 2005d:65071**
Meer, Klaus On a refined analysis of some problems in interval arithmetic using real number complexity theory. (English summary) **2005g:65077**
Mehrez, Habib *see* **Avot-Chotin, Roselyne**
Mulupuru, Bharat C. (*with* Kreinovich, Vladik; Osegueda, Roberto) Interval approach to phase measurements can lead to arbitrarily complex sets—a theorem and ways around it. (English summary)
Osegueda, Roberto *see* **Mulupuru, Bharat C. et al.**
Popova, Evgenija D. Strong regularity of parametric interval matrices. (English and Bulgarian summaries) (*see* **2005f:00011**)
Stolfi, Jorge *see* **de Figueiredo, Luiz Henrique**
Verdonk, B. (*with* Vervloet, J.; Cuyt, A.) Blending set and interval arithmetic for maximal reliability. (English summary) **2005m:65103**
Vervloet, J. *see* **Verdonk, B. et al., 2005m:65103**
Wolff von Gudenberg, Jürgen (*with* Kreinovich, Vladik) A full function-based calculus of directed and undirected intervals: Markov's interval arithmetic revisited. (English summary) **2005k:65091**
Zelyk, Ya. I. (*with* Lychak, M. M.) Computer technology of interval-set analysis in MATLAB. (Russian. English and Ukrainian summaries) **2005h:65078**
Žilinskas, Julius Comparison of packages for interval arithmetic. (English and Lithuanian summaries) **2005m:65104**

Items with secondary classifications in 65G30

Benhamou, Frédéric (*with* Goualard, Frédéric; Languénou, Éric; Christie, Marc) Interval constraint solving for camera control and motion planning. (English summary)
Christie, Marc *see* **Benhamou, Frédéric et al.**
Dyllong, Eva (*with* Luther, Wolfram J.) The GJK distance algorithm: an interval version for incremental motions. (English summary)
van Emden, M. H. (*with* Moa, B.) Termination criteria in the Moore-Skelboe algorithm for global optimization by interval arithmetic. (English summary) **2005c:90070**
Feng, Li Fu *see* **Guo, Shu Xiang et al., 2005b:65126**
Ferson, Scott A. *see* **Kreinovich, Vladik et al.**
Frommer, Andreas *see* **Qiu, Zhi Ping[1] et al., 2005e:93088**
Ginzburg, Lev *see* **Kreinovich, Vladik et al.**
Goualard, Frédéric *see* **Benhamou, Frédéric et al.**
Guo, Shu Xiang (*with* Lü, Zhen Zhou; Feng, Li Fu) Fuzzy arithmetic and solving of the static governing equations of fuzzy finite element method. (Chinese. English and Chinese summaries) **2005b:65126**
Hanrot, Guillaume (*with* Rivat, Joël; Tenenbaum, Gérald; Zimmermann, Paul) Density results on floating-point invertible numbers. (English summary) **2005b:68028**
Hosseinzadeh Lotfi, F. *see* **Jahanshahloo, Gholamreza et al., 2005g:90083**
Jahanshahloo, Gholamreza (*with* Hosseinzadeh Lotfi, F.; Moradi, M.) Sensitivity and stability analysis in DEA with interval data. (English summary) **2005g:90083**
Konnov, Igor V. (*with* Pinyagina, O. V.) The method of descent over an interval function for nonsmooth equilibrium problems. (Russian) **2005e:90141**
Kouptsov, Konstantin L. Interval propagation method for finding trajectories of chaotic maps. (English summary) **2005b:37053**
Kreinovich, Vladik Probabilities, intervals, what next? Optimization problems related to extension of interval computations to situations with partial information about probabilities. (English summary) **2005k:90113**
— (*with* Longpré, Luc) Fast quantum algorithms for handling probabilistic and interval uncertainty. (English summary) **2005f:68034**
— (*with* Pauwels, Eric J.; Ferson, Scott A.; Ginzburg, Lev) A feasible algorithm for locating concave and convex zones of interval data and its use in statistics-based clustering. (English summary)
Languénou, Éric *see* **Benhamou, Frédéric et al.**
Levin, Vitaliĭ Il'ich Comparison of interval numbers, and the optimization of systems with interval parameters. (Russian. Russian summary) **2005d:90150**
— Ordering of intervals and optimization problems with interval parameters. (Russian. English and Ukrainian summaries) **2005k:90151**
Longpré, Luc *see* **Kreinovich, Vladik, 2005f:68034**
Lü, Zhen Zhou *see* **Guo, Shu Xiang et al., 2005b:65126**
Luther, Wolfram J. *see* **Dyllong, Eva**
Meer, Klaus On the complexity of some problems in interval arithmetic. (English summary) **2005c:68101**
Moa, B. *see* **van Emden, M. H., 2005c:90070**
Moradi, M. *see* **Jahanshahloo, Gholamreza et al., 2005g:90083**
Müller, Peter C. *see* **Qiu, Zhi Ping[1] et al., 2005e:93088**
Nagatou, K. A computer-assisted proof on the stability of the Kolmogorov flows of incompressible viscous fluid. (English summary) **2005c:76047**
Pauwels, Eric J. *see* **Kreinovich, Vladik et al.**
Pinyagina, O. V. *see* **Konnov, Igor V., 2005e:90141**
Pownuk, Andrzej Numerical solutions of fuzzy partial differential equations and its applications in computational mechanics. (English summary) **2005g:74055**
Qiu, Zhi Ping[1] (*with* Müller, Peter C.; Frommer, Andreas) The new nonprobabilistic criterion of failure for dynamical systems based on convex models. (English summary) **2005e:93088**
— (*with* Wang, Xiaojun[2]) Several solution methods for the generalized complex eigenvalue problem with bounded uncertainties. (English summary) **2005i:70054**
Rivat, Joël *see* **Hanrot, Guillaume et al., 2005b:68028**
Tenenbaum, Gérald *see* **Hanrot, Guillaume et al., 2005b:68028**
Wang, Xiaojun[2] *see* **Qiu, Zhi Ping[1], 2005i:70054**
Zimmermann, Paul *see* **Hanrot, Guillaume et al., 2005b:68028**

65G40 General methods in interval analysis

de Aguiar, Marilton Sanchotene (*with* Dimuro, Graçaliz Pereira; da Rocha Costa, Antônio Carlos) ICTM: an interval tessellation-based model for reliable topographic segmentation. (English summary) **2005i:65070**
Arndt, Hans-Robert (*with* Mayer, Günter) On the semi-convergence of interval matrices. (English summary) **2005h:65079**
Bozkurt, Durmuş *see* **Yamaç, Kerem, 2005c:65038**
Casado, L. G. *see* **Martínez, J. A. et al.**
Csendes, Tibor Generalized subinterval selection criteria for interval global optimization. (English summary)
Dimuro, Graçaliz Pereira *see* **de Aguiar, Marilton Sanchotene et al., 2005i:65070**
Dong, Jin Xiang *see* **Wang, Hua, 2005k:65092**
García-Fernández, I. *see* **Martínez, J. A. et al.**

Kolev, Lubomir V. A method for outer interval solution of linear parametric systems. (English summary) **2005a:65046**
Kreinovich, Vladik *see* **Nedialkov, Nedialko S. et al.**
Martínez, J. A. (*with* Casado, L. G.; García-Fernández, I.; Sergeev, Yaroslav D.; Tóth, Boglárka) On an efficient use of gradient information for accelerating interval global optimization algorithms. (English summary)
Mayer, Günter *see* **Arndt, Hans-Robert, 2005h:65079**
Nazin, S. A. *see* **Polyak, Boris Teodorovich, 2005d:65073**
Nedialkov, Nedialko S. (*with* Kreinovich, Vladik; Starks, Scott A.) Interval arithmetic, affine arithmetic, Taylor series methods: why, what next? (English summary)
Polyak, Boris Teodorovich (*with* Nazin, S. A.) Interval solutions for interval algebraic equations. (English summary) **2005d:65073**
da Rocha Costa, Antônio Carlos *see* **de Aguiar, Marilton Sanchotene et al., 2005i:65070**
Sergeev, Yaroslav D. *see* **Martínez, J. A. et al.**
Sharyĭ, S. P. Solution of an interval linear tolerance problem. (Russian. Russian summary) **2005m:65105**
Starks, Scott A. *see* **Nedialkov, Nedialko S. et al.**
Tóth, Boglárka *see* **Martínez, J. A. et al.**
Wang, Hua (*with* Dong, Jin Xiang) Using interval arithmetic and annealing genetic algorithm for surface intersection. (Chinese. English summary) **2005k:65092**
Yamaç, Kerem (*with* Bozkurt, Durmuş) On stability of discrete-time interval matrices. (English summary) **2005c:65038**

Items with secondary classifications in 65G40

Alefeld, Götz (*with* Wang, Zheng Yu[2]; Shen, Zu He) Enclosing solutions of linear complementarity problems for H-matrices. (English summary) **2005g:90150**
Anile, Angelo Marcello (*with* Spinella, Salvatore) Modeling uncertain sparse data with fuzzy B-splines. (English summary) **2005d:65011**
Barahona, Pedro *see* **Granvilliers, Laurent et al., 2005i:65098**
Barton, Paul I. *see* **Bhattacharjee, Binita et al., 2005i:90083**
Bhattacharjee, Binita (*with* Green, William H., Jr.; Barton, Paul I.) Interval methods for semi-infinite programs. (English summary) **2005i:90083**
Boese, Fritz G. (*with* Luther, Wolfram J.) Enclosure of the zero set of multivariate exponential interval polynomials. (English summary)
Casado, L. G. *see* **Martínez, J. A. et al., 2005b:90102**
Cruz, Jorge *see* **Granvilliers, Laurent et al., 2005i:65098**
Do, Dang-Khoa Spigot algorithm and reliable computation of natural logarithm. (English summary) **2005f:65027**
Feng, Yong[1] *see* **Li, Yao-hui et al., 2005j:65051**
Ferreira, José Augusto Mendes (*with* Patrício, F.; Oliveira, Fernanda Aleixo) On the computation of solutions of systems of interval polynomial equations. (English summary) **2005g:65087**
Friswell, Michael I. *see* **Qiu, Zhi Ping[1] et al., 2005j:70047**
García-Fernández, I. *see* **Martínez, J. A. et al., 2005b:90102**
Granvilliers, Laurent (*with* Cruz, Jorge; Barahona, Pedro) Parameter estimation using interval computations. (English summary) **2005i:65098**
Greatbanks, Richard *see* **Wang, Ying-Ming et al.**
Green, William H., Jr. *see* **Bhattacharjee, Binita et al., 2005i:90083**
Hansen, Eldon *see* **Walster, G. William**
Ida, Masaaki Solutions for the portfolio selection problem with interval and fuzzy coefficients. (English summary) **2005d:91054**
Kálovics, Ferenc (*with* Mészáros, Gabriella) Box valued functions in solving systems of equations and inequalities. (English summary) **2005f:65070**
Kashevarova, Tamara (*with* Semenov, Aleksandr Leonidovich) The use of the cooperative solver SibCalc in modeling of complex problems. (English summary) (*see* **2005c:00015**)
Kobayashi, Kenta Numerical verification of the global uniqueness of a positive solution for Nekrasov's equation. (English summary) **2005b:76020**
Kolev, Lubomir V. Solving linear system whose elements are nonlinear functions of intervals. (English summary)
— An improved interval linearization for solving nonlinear problems. (English summary)
Kovács, Margit (*with* Nándori, E.) Pessimistic and optimistic interval solutions of perturbed linear systems. (English summary) **2005f:90177**
Kozina, Galina Discrete optimization problems with interval data: Pareto set of solutions or set of weak solutions? (English summary) **2005g:90147**
Lahmann, Jan-Rainer (*with* Plum, Michael) A computer-assisted instability proof for the Orr-Sommerfeld equation with Blasius profile. (English summary) **2005c:76045**
Li, Yao-hui (*with* Xue, Ji-wei; Feng, Yong[1]) Solving nonlinear systems via preprocessing and interval method. (English and Chinese summaries) **2005j:65051**
Lin, Youdong (*with* Stadtherr, M. A.) Advances in interval methods for deterministic global optimization in chemical engineering. (English summary) **2005h:90100**
Lu, Yue Jin *see* **Zhan, Ji Zhou**
Luther, Wolfram J. *see* **Boese, Fritz G.**
Marciniak, Andrzej Implicit interval methods for solving the initial value problem. (English summary)
Martínez, J. A. (*with* Casado, L. G.; García-Fernández, I.; Tóth, Boglárka) AMIGO: advanced multidimensional interval analysis global optimization algorithm. (English summary) **2005b:90102**
Mészáros, Gabriella *see* **Kálovics, Ferenc, 2005f:65070**
Milošević, Dušan M. *see* **Petković, Miodrag S., 2005e:65062**
Nándori, E. *see* **Kovács, Margit, 2005f:90177**
Oliveira, Fernanda Aleixo *see* **Ferreira, José Augusto Mendes et al., 2005g:65087**
Patrício, F. *see* **Ferreira, José Augusto Mendes et al., 2005g:65087**
Petković, Miodrag S. (*with* Milošević, Dušan M.) Ostrowski-like method with corrections for the inclusion of polynomial zeros. (English summary) **2005e:65062**
Plum, Michael *see* **Lahmann, Jan-Rainer, 2005c:76045**
Pu, Zhi Qin *see* **Wang, Cheng et al., 2005k:90118**
Qiu, Zhi Ping[1] (*with* Wang, Xiaojun[2]; Friswell, Michael I.) Eigenvalue bounds of structures with uncertain-but-bounded parameters. (English summary) **2005j:70047**
Rao, Singiresu Sambasiva (*with* Wu, Wei Dong[2]) Optimum tolerance allocation in mechanical assemblies using an interval method. (English summary) **2005m:70027**
Schäfer, Uwe[2] A linear complementarity problem with a P-matrix. (English summary) **2005j:90084**
Semenov, Aleksandr Leonidovich *see* **Kashevarova, Tamara, (2005c:00015)**
Sen, Rabindranath Ball Newton's method versus ball Stirling's method. (English summary) **2005e:65067**
Shen, Pei Ping (*with* Zhang, Ke Cun) An interval slope algorithm for global optimization. (Chinese. English summary) **2005a:90153**
Shen, Zu He *see* **Alefeld, Götz et al., 2005g:90150**
Shi, Kui Ran *see* **Wang, Cheng et al., 2005k:90118**
Spinella, Salvatore *see* **Anile, Angelo Marcello, 2005d:65011**
Stadtherr, M. A. *see* **Lin, Youdong, 2005h:90100**
Szabó, Zoltán István Parabola-parabola combined method. (English summary) **2005b:65060**
Tóth, Boglárka *see* **Martínez, J. A. et al., 2005b:90102**
Walster, G. William (*with* Hansen, Eldon) Using pillow functions to efficiently compute crude range tests. (English summary)
Wang, Cheng (*with* Shi, Kui Ran; Pu, Zhi Qin) A class of interval methods for global optimization. (Chinese. English and Chinese summaries) **2005k:90118**
Wang, Xiaojun[2] *see* **Qiu, Zhi Ping[1] et al., 2005j:70047**
Wang, Ying-Ming (*with* Greatbanks, Richard; Yang, Jian-Bo) Interval efficiency assessment using data envelopment analysis. (English summary)
Wang, Zheng Yu[2] *see* **Alefeld, Götz et al., 2005g:90150**
Wu, Wei Dong[2] *see* **Rao, Singiresu Sambasiva, 2005m:70027**
Xue, Ji-wei *see* **Li, Yao-hui et al., 2005j:65051**
Yang, Jian-Bo *see* **Wang, Ying-Ming et al.**
Zhan, Ji Zhou (*with* Lu, Yue Jin) Least squares method for sequencing judgment matrix of interval numbers. (Chinese. English and Chinese summaries)
Zhang, Ke Cun *see* **Shen, Pei Ping, 2005a:90153**

65G50 Roundoff error

Demmel, James (*with* Hida, Yozo) Accurate and efficient floating point summation. (English summary) **2005b:65055**
Hida, Yozo *see* **Demmel, James, 2005b:65055**

Items with secondary classifications in 65G50

Defour, David (*with* Hanrot, Guillaume; Lefèvre, Vincent; Muller, Jean-Michel; Revol, Nathalie; Zimmermann, Paul) Proposal for a standardization of mathematical function implementation in floating-point arithmetic. (English summary)
Doerr, Benjamin Typical rounding problems. (English summary) **2005b:11119**
Drygalla, Volker *see* **Zielke, Gerhard, 2005d:65069**
Gemignani, Luca (*with* Lotti, Grazia) Rounding error analysis in solving M-matrix linear systems of block Hessenberg form. (English summary) **2005g:65046**
Giraud, Luc (*with* Langou, Julien) A robust criterion for the modified Gram-Schmidt algorithm with selective reorthogonalization. (English summary) **2005d:65064**
Hanrot, Guillaume *see* **Defour, David et al.**
Hasegawa, Takemitsu Error analysis of Clenshaw's algorithm for evaluating derivatives of a polynomial. (English summary) **2005c:41009**
Jézéquel, Fabienne Dynamical control of converging sequences computation. (English summary) **2005b:65004**
Langlois, Philippe More accuracy at fixed precision. (English summary) **2005d:65072**
Langou, Julien *see* **Giraud, Luc, 2005d:65064**
Lefèvre, Vincent *see* **Defour, David et al.**
Lotti, Grazia *see* **Gemignani, Luca, 2005g:65046**
Muller, Jean-Michel *see* **Defour, David et al.**
Revol, Nathalie *see* **Defour, David et al.**
Smoktunowicz, Alicja (*with* Wróbel, Iwona) Numerical stability of the Richardson second order method. (English summary) **2005m:65070**
Wróbel, Iwona *see* **Smoktunowicz, Alicja, 2005m:65070**
Zielke, Gerhard (*with* Drygalla, Volker) Genaue Lösung linearer Gleichungssysteme. [A sharp solution of linear systems] **2005d:65069**
Zimmermann, Paul *see* **Defour, David et al.**

65G99 None of the above, but in this section

Alt, Rene *see* **Markov, Svetoslav M. et al.**
Croot, E. S., III (*with* Li, Ren-Cang; Zhu, Hui June) The *abc* conjecture and correctly rounded reciprocal square roots. (English summary) **2005b:65056**
Geddes, Keith O. (*with* Zheng, Wei Wei) Exploiting fast hardware floating point in high precision computation. (English summary) **2005d:65074**
Lamotte, Jean-Luc *see* **Markov, Svetoslav M. et al.**
Langley, Simon *see* **Richardson, Daniel, 2005d:65075**
Li, Ren-Cang *see* **Croot, E. S., III et al., 2005b:65056**
Markov, Svetoslav M. (*with* Alt, Rene; Lamotte, Jean-Luc) Stochastic arithmetic: s-spaces and some applications. (English summary)
Monahan, John Basic computational algorithms. (*see* **2005g:62004**)
Priest, Douglas M. Efficient scaling for complex division. (English summary) **2005i:65071**
Richardson, Daniel (*with* Langley, Simon) Some observations on familiar numbers. (English summary) **2005d:65075**
Vignes, Jean Discrete stochastic arithmetic for validating results of numerical software. (English summary)
Zheng, Wei Wei *see* **Geddes, Keith O., 2005d:65074**
Zhu, Hui June *see* **Croot, E. S., III et al., 2005b:65056**

Items with secondary classifications in 65G99

Asadi, Bahram *see* **Toutounian, Faezeh et al., 2005h:65055**
Bouleau, Nicolas ★ Error calculus for finance and physics: the language of Dirichlet forms. **2005g:60003**
Brattka, Vasco *see* **Ziegler, Martin[2], 2005f:03099**

Dopico, Froilán M. (*with* Moro, Julio) A note on multiplicative backward errors of accurate SVD algorithms. (English summary) **2005f:65057**
Heath, Lenwood S. (*with* Ribbens, C. J.; Pemmaraju, Sriram V.) Processor-efficient sparse matrix-vector multiplication. (English summary) **2005h:65077**
Klimke, Andreas (*with* Willner, Kai; Wohlmuth, Barbara I.) Uncertainty modeling using fuzzy arithmetic based on sparse grids: applications to dynamic systems. (English summary) **2005i:70007**
Maday, Yvon (*with* Turinici, Gabriel) Error bars and quadratically convergent methods for the numerical simulation of the Hartree-Fock equations. (English summary) **2005c:81050**
Moro, Julio *see* **Dopico, Froilán M., 2005f:65057**
Neher, M. A complex mean value form for curves. (English summary)
Pemmaraju, Sriram V. *see* **Heath, Lenwood S. et al., 2005h:65077**
Pereira, A. (*with* Rodrigues, R.) Minimal convergence conditions for multiplicative normalization division. **2005f:68007**
Ribbens, C. J. *see* **Heath, Lenwood S. et al., 2005h:65077**
Rodrigues, R. *see* **Pereira, A., 2005f:68007**
Salkuyeh, Davod Khojasteh *see* **Toutounian, Faezeh et al., 2005h:65055**
Toutounian, Faezeh (*with* Salkuyeh, Davod Khojasteh; Asadi, Bahram) Numerical implementation of the QMR algorithm by using discrete stochastic arithmetic. (English summary) **2005h:65055**
Turinici, Gabriel *see* **Maday, Yvon, 2005c:81050**
Willner, Kai *see* **Klimke, Andreas et al., 2005i:70007**
Wohlmuth, Barbara I. *see* **Klimke, Andreas et al., 2005i:70007**
Ziegler, Martin² (*with* Brattka, Vasco) Computability in linear algebra. (English summary) **2005f:03099**

65Hxx Nonlinear algebraic or transcendental equations

Items with secondary classifications in 65Hxx
Argyros, Ioannis K. ★ Newton methods. **2005m:65001**
Deuflhard, Peter ★ Newton methods for nonlinear problems. **2005h:65002**

65H05 Single equations

Abbasbandy, S. (*with* Asady, Babak) Newton's method for solving fuzzy nonlinear equations. (English summary) **2005f:65067**
An, Heng Bin (*with* Bai, Zhong Zhi) Directional secant method for nonlinear equations. (English summary) **2005j:65046**
Araabi, Babak N. *see* **Zarrineh, Peyman et al.**
Argyros, Ioannis K. *see* **Huang, Zhengda, 2005f:65068**
Asady, Babak *see* **Abbasbandy, S., 2005f:65067**
Bai, Zhong Zhi *see* **An, Heng Bin, 2005j:65046**
Bini, Dario A. (*with* Gemignani, Luca; Pan, Victor Ya.) Inverse power and Durand-Kerner iterations for univariate polynomial root-finding. (English summary) **2005b:65057**
Chi, Zheru *see* **Huang, De-Shuang et al., 2005i:65073**
Croitoru, Mihai Numerical methods for solving nonlinear equations. (Romanian. English summary) **2005j:65047**
Díaz-Barrero, José Luis (*with* Egozcue, Juan José) Bounds for the moduli of zeros. (English summary)
Egozcue, Juan José *see* **Díaz-Barrero, José Luis**
Feng, Qin Rong A fast division-free method to determine the location of the roots of an algebraic equation. (Chinese. English and Chinese summaries) **2005h:65080**
Frontini, M. (*with* Sormani, E.) Third-order methods from quadrature formulae for solving systems of nonlinear equations. (English summary) **2005h:65081**
Gemignani, Luca *see* **Bini, Dario A. et al., 2005b:65057**
Gil, Amparo (*with* Koepf, Wolfram A.; Segura, Javier) Computing the real zeros of hypergeometric functions. (English summary) **2005i:65072**
Hernández Verón, Miguel A. (*with* Romero Alvarez, Natalia) Accelerated convergence in Newton's method for approximating square roots. (English summary) **2005j:65048**
Homeier, H. H. H. On Newton-type methods with cubic convergence. (English summary) **2005m:65106**
Hong, Hoon Note on Jacobi's method for approximating dominant roots. (English summary) **2005g:65078**
Horace, H. S. Ip *see* **Huang, De-Shuang et al., 2005i:65073**
Huang, De-Shuang (*with* Horace, H. S. Ip; Law, Ken Chee Keung; Chi, Zheru; Wong, H. S.) A new partitioning neural network model for recursively finding arbitrary roots of higher order arbitrary polynomials. (English summary) **2005i:65073**
Huang, Zhengda (*with* Argyros, Ioannis K.) On two improved Durand-Kerner methods without derivatives. (English summary) **2005f:65068**
Ilić, Snežana M. (*with* Rančić, Lidija) On the fourth order zero-finding methods for polynomials. (English summary) **2005g:65079**
Iliev, Anton I. On a generalization of Chebyshev method for simultaneous extraction of all roots of polynomials over an arbitrary Chebyshev system. (English summary) **2005i:65074**
— *see also* **Kyurkchiev, N., 2005g:65080**
Kalantari, Bahman An infinite family of bounds on zeros of analytic functions and relationship to Smale's bound. (English summary) **2005k:65093**
Kanwar, Vinay (*with* Singh, Sukhjit²; Sharma, J. R.; Mamta) New numerical techniques for solving non-linear equations. (English summary) **2005a:65047**
— *see also* **Mamta et al.**
Kiciak, Przemysław (*with* Zidna, Ahmed) Recursive de Casteljau bisection and rounding errors. (English summary) **2005e:65061**
Koepf, Wolfram A. *see* **Gil, Amparo et al., 2005i:65072**
Kogut, A. T. A numerical algorithm for solving nonlinear equations using second derivatives. (Russian. English summary) **2005d:65076**
Kukreja, V. K. *see* **Mamta et al.**
Kyurkchiev, N. (*with* Iliev, Anton I.) Failure of convergence of the Newton-Weierstrass iterative method for simultaneous rootfinding of generalized polynomials. (English summary) **2005g:65080**
Law, Ken Chee Keung *see* **Huang, De-Shuang et al., 2005i:65073**
Lucas, Caro *see* **Zarrineh, Peyman et al.**
Mamta (*with* Kanwar, Vinay; Kukreja, V. K.; Singh, Sukhjit²) On a class of quadratically convergent iteration formulae. (English summary)
— *see also* **Kanwar, Vinay et al., 2005a:65047**
Marinković, Sladjana D. *see* **Stanković, Miomir S. et al., 2005i:65077**
Meek, D. S. (*with* Walton, D. J.) A note on finding clothoids. (English summary) **2005d:65077**
Milošević, Dušan M. *see* **Petković, Miodrag S. et al., 2005c:65040; 2005e:65062; 2005h:65082** *and* **Petković, Ljiljana D. et al., 2005i:65076**
Nedzhibov, Gyurhan H. (*with* Petkov, Milko G.) On a family of iterative methods for simultaneous extraction of all roots of algebraic polynomial. (English summary) **2005i:65075**
Özban, Ahmet Yaşar Some new variants of Newton's method. (English summary) **2005b:65058**
Pan, Victor Ya. *see* **Bini, Dario A. et al., 2005b:65057**
Păvăloiu, Ion On a Halley-Steffensen method for approximating the solutions of scalar equations. (English summary) **2005g:65081**
Petkov, Milko G. *see* **Nedzhibov, Gyurhan H., 2005i:65075**
Petković, Ljiljana D. (*with* Petković, Miodrag S.; Milošević, Dušan M.) Inclusion Weierstrass-like root-finders with corrections. (English summary) **2005i:65076**
— (*with* Petković, Miodrag S.; Živković, Dragan) Hansen-Patrick's family is of Laguerre's type. (English summary) **2005c:65039**
Petković, Miodrag S. (*with* Vranić, Dejan V.) On the guaranteed convergence of a family of simultaneous iterative methods. (English summary) **2005b:65059**
— (*with* Milošević, Dušan M.) Derivative free combined method for the simultaneous inclusion of polynomial zeros. (English summary) **2005h:65082**
— (*with* Rančić, Lidija; Milošević, Dušan M.) On the guaranteed convergence of the Japanese zero-finding method. (English summary) **2005c:65040**
— (*with* Rančić, Lidija) On the guaranteed convergence of the fourth order simultaneous method for polynomial zeros. (English summary) **2005j:65049**
— (*with* Sakurai, Tetsuya; Rančić, Lidija) Family of simultaneous methods of Hansen-Patrick's type. (English summary) **2005g:65082**
— (*with* Rančić, Lidija) On the guaranteed convergence of the square-root iteration method. (English summary) **2005d:65078**
— (*with* Milošević, Dušan M.) Ostrowski-like method with corrections for the inclusion of polynomial zeros. (English summary) **2005e:65062**
— (*with* Rančić, Lidija) A new fourth-order family of simultaneous methods for finding polynomial zeros. (English summary) **2005m:65107**
— *see also* **Petković, Ljiljana D. et al., 2005c:65039** *and* **2005i:65076**
Podlevs'kiĭ, B. M. On bilateral convergence of Halley's method. **2005a:65048**
Radu, Lucian (*with* Radu, Viorel) On the local convergence of some iterative processes and higher order methods for solving nonlinear equations. (English summary) **2005g:65083**
— (*with* Radu, Viorel) Some iterative processes and higher order methods for nonlinear equations in R. (English summary)
— (*with* Radu, Viorel) Higher order methods, by superposition and without derivatives for solving nonlinear equations on the real line. (English summary) (*see* **2005a:00016**)
Radu, Viorel *see* **Radu, Lucian, 2005g:65083** *and* **(2005a:00016)**
Rajković, Predrag M. *see* **Stanković, Miomir S. et al., 2005i:65077**
Rančić, Lidija *see* **Petković, Miodrag S. et al., 2005c:65040; 2005d:65078; 2005g:65082; 2005j:65049; 2005m:65107** *and* **Ilić, Snežana M., 2005g:65079**
Ren, Zong Xiu *see* **Yang, Ming Bo**
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Sakurai, Tetsuya *see* **Petković, Miodrag S. et al., 2005g:65082**
Segura, Javier *see* **Gil, Amparo et al., 2005i:65072**
Sharma, J. R. A family of methods for solving nonlinear equations using quadratic interpolation. (English summary) **2005f:65069**
— *see also* **Kanwar, Vinay et al., 2005a:65047**
Singh, Sukhjit² *see* **Kanwar, Vinay et al., 2005a:65047** *and* **Mamta et al.**
Sormani, E. *see* **Frontini, M., 2005h:65081**
Stanković, Miomir S. (*with* Rajković, Predrag M.; Marinković, Sladjana D.) Solving equations by q-iterative methods and q-Sendov conjecture. (English summary) **2005i:65077**
Szabó, Zoltán István Parabola-parabola combined method. (English summary) **2005b:65060**
Vranić, Dejan V. *see* **Petković, Miodrag S., 2005b:65059**
Walton, D. J. *see* **Meek, D. S., 2005d:65077**
Winkler, Joab R. A statistical analysis of the numerical condition of multiple roots of polynomials. (English summary) **2005d:65079**
Wong, H. S. *see* **Huang, De-Shuang et al., 2005i:65073**
Wu, Xinyuan Recursive algorithm without extra function evaluations for the Jacobian matrix of Viéta's polynomial system with applications. (English summary) **2005k:65094**
Yakoubsohn, Jean-Claude Simultaneous computation of all the zero-clusters of a univariate polynomial. (English summary) **2005a:65049**
Yan, Shi Jian² Convergence of a memoryless quasi-Newton method. (Chinese. English and Chinese summaries)
Yang, Ming Bo (*with* Ren, Zong Xiu) A derivative-free iteration formula with fourth-order convergence. (Chinese. English and Chinese summaries)
Zarrineh, Peyman (*with* Lucas, Caro; Araabi, Babak N.) Finding all zeros of a polynomial of degree n using evolutionary algorithms. (English summary)
Zeng, Zhonggang A method computing multiple roots of inexact polynomials. (English summary) **2005d:65080**
— Algorithm 835: MultRoot—a Matlab package for computing polynomial roots and multiplicities. (English summary) **2005c:65041**
Zheng, Zu Kang An algorithm of MCMC method for solving $F(X) = 0$. (English summary) **2005a:65050**
Zhu, Ling² On the convergent condition of Newton-like method in parallel circular

iteration for simultaneously finding all multiple zeros of a polynomial. (English summary) **2005c:65042**
— On the convergent conditions of Durand-Kerner method in parallel circular iteration of single-step and double-step. (English summary) **2005g:65084**
Zidna, Ahmed *see* **Kiciak, Przemysław**, **2005e:65061**
Živković, Dragan *see* **Petković, Ljiljana D. et al.**, **2005c:65039**

Items with secondary classifications in 65H05

Amat, Sergio (*with* Busquier, Sonia; Plaza S., Sergio) Dynamics of a family of third-order iterative methods that do not require using second derivatives. (English summary) **2005d:37087**
Boese, Fritz G. (*with* Luther, Wolfram J.) Enclosure of the zero set of multivariate exponential interval polynomials. (English summary)
Busquier, Sonia *see* **Amat, Sergio et al.**, **2005d:37087**
Farouki, Rida T. (*with* Han, Chang Yong) Robust plotting of generalized lemniscates. (English summary) **2005i:26036**
Han, Chang Yong *see* **Farouki, Rida T.**, **2005i:26036**
Jónsson, Guđbjörn F. (*with* Vavasis, Stephen A.) Solving polynomials with small leading coefficients. (English summary) **2005k:12010**
Kalantari, Bahman On homogeneous linear recurrence relations and approximation of zeros of complex polynomials. (English summary) **2005d:12001**
Klivans, Adam R. (*with* Spielman, Daniel A.) Randomness efficient identity testing of multivariate polynomials. (English summary) (*see* **2005j:68008**)
Kriegl, Andreas (*with* Losik, Mark; Michor, Peter W.) Choosing roots of polynomials smoothly. II. (English summary) **2005c:58016**
Losik, Mark *see* **Kriegl, Andreas et al.**, **2005c:58016**
Luther, Wolfram J. *see* **Boese, Fritz G.**
Michor, Peter W. *see* **Kriegl, Andreas et al.**, **2005c:58016**
Plaza S., Sergio *see* **Amat, Sergio et al.**, **2005d:37087**
Rojas, J. Maurice (*with* Ye, Yinyu) On solving univariate sparse polynomials in logarithmic time. (English summary) **2005m:12001**
Sendov, Blagovest Thoughts over the Smale's mean value conjecture. (English summary) **2005i:30007**
Spielman, Daniel A. *see* **Klivans, Adam R.**, (**2005j:68008**)
Vavasis, Stephen A. *see* **Jónsson, Guđbjörn F.**, **2005k:12010**
Vykhovanets, V. S. Polynomial factorization of spectral bases. (Russian. Russian summary) **2005j:93050**
Ye, Yinyu *see* **Rojas, J. Maurice**, **2005m:12001**
Zeng, Zhonggang Computing multiple roots of inexact polynomials. (English summary) **2005m:12011**

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Abdel-Aziz, Mohammedi R. Globally convergent algorithm for solving large nonlinear systems of equations. (English summary) **2005e:65063**
Ahues, Mario Newton methods with Hölder derivative. (English summary) **2005k:65095**
— A note on perturbed fixed slope iterations. (English summary) **2005m:65108**
Amat, Sergio (*with* Busquier, Sonia) On an improvement of the Steffensen method. (English and French summaries) **2005d:65081**
Argyros, Ioannis K. ★ Contemporary computational methods in numerical analysis. Part I. **2005a:65051a**
— ★ Contemporary computational methods in numerical analysis. Part II. **2005a:65051b**
— On the convergence of Broyden's method. (English summary)
Arnal, Josep (*with* Migallón, Violeta; Penadés, José) Parallel Newton two-stage multisplitting iterative methods for nonlinear systems. (English summary) **2005d:65082**
Bader, Brett W. (*with* Schnabel, Robert B.) Curvilinear linesearch for tensor methods. (English summary) **2005g:65085**
Beauzamy, Bernard Fast intersection methods for the solution of some nonlinear systems of equations. **2005i:65078**
Bellavia, Stefania (*with* Macconi, Maria; Morini, Benedetta) STRSCNE: a scaled trust-region solver for constrained nonlinear equations. (English summary) **2005b:65061**
Beringer, Frédéric (*with* Richard-Jung, Françoise) Multi-variate polynomials and Newton-Puiseux expansions. (English summary) **2005b:65062**
Bliek, A. *see* **van Noorden, T. L. et al.**, **2005h:65085**
Busquier, Sonia *see* **Amat, Sergio**, **2005d:65081**
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— *see also* **Păvăloiu, Ion**, **2005f:65071**
Chan, Raymond H. (*with* Ho, Chung-wa; Nikolova, Mila) Convergence of Newton's method for a minimization problem in impulse noise removal. (English summary) **2005e:65065**
Chang, Shing-Lin (*with* Chen, Hui-Shuang; Chien, C.-S.) Multigrid-conjugate gradient type methods for reaction-diffusion systems. (English summary) **2005k:65096**
Chen, Hui-Shuang *see* **Chang, Shing-Lin et al.**, **2005k:65096**
Chien, C.-S. *see* **Chang, Shing-Lin et al.**, **2005k:65096**
Collins, Emmanuel G., Jr. *see* **Selekwa, Majura F.**, **2005i:65081**
Connell, Christopher A solution to certain polynomial equations with applications to nonlinear fitting. (English summary) **2005g:65086**
Drăgan, Mircea[2] On decomposing large sparse systems of nonlinear equations. (English summary) **2005c:65043**
El-Sayed, Salah M. *see* **Kaya, Doğan**, **2005g:65089**
Fan, Jin-yan (*with* Pan, Jian-Yu) Inexact Levenberg-Marquardt method for nonlinear equations. (English summary) **2005j:65050**
Feng, Yong[1] *see* **Li, Yao-hui et al.**, **2005j:65051**
Ferreira, José Augusto Mendes (*with* Patrício, F.; Oliveira, Fernanda Aleixo) On the computation of solutions of systems of interval polynomial equations. (English summary) **2005g:65087**
Finta, Béla *see* **Horváth, Alexandru**, **2005g:65088**
Francisco, J. B. (*with* Krejić, N.; Martínez, José Mario) An interior-point method for solving box-constrained underdetermined nonlinear systems. (English summary) **2005k:65097**
Frommer, Andreas (*with* Lang, Bruno; Schnurr, M.) A comparison of the Moore and Miranda existence tests. (English summary) **2005i:65079**
Fukushima, Masao *see* **Kanzow, Christian et al.**, **2005h:65084a** *and* **2005h:65084b**
Gratton, Serge *see* **Lawless, A. S. et al.**, **2005k:65098**
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He, Miao *see* **Yang, Fenghong et al.**
Ho, Chung-wa *see* **Chan, Raymond H. et al.**, **2005e:65065**
Homeier, H. H. H. A modified Newton method with cubic convergence: the multivariate case. (English summary) **2005e:65066**
Horváth, Alexandru (*with* Finta, Béla) Finding roots of nonlinear systems of equations on a domain. (English summary) **2005g:65088**
Huang, Zhengda The convergence ball of Newton's method and the uniqueness ball of equations under Hölder-type continuous derivatives. (English summary) **2005d:65083**
Ivanov, Ivan Ganchev (*with* Hasanov, Vejdi I.; Uhlig, Frank) Improved methods and starting values to solve the matrix equations $X \pm A^*X^{-1}A = I$ iteratively. (English summary) **2005h:65083**
Kálovics, Ferenc (*with* Mészáros, Gabriella) Box valued functions in solving systems of equations and inequalities. (English summary) **2005f:65070**
Kanzow, Christian (*with* Yamashita, Nobuo; Fukushima, Masao) Levenberg-Marquardt methods with strong local convergence properties for solving nonlinear equations with convex constraints. (English summary) **2005h:65084a**
— (*with* Yamashita, Nobuo; Fukushima, Masao) Levenberg-Marquardt methods with strong local convergence properties for solving nonlinear equations with convex constraints. (English summary) **2005h:65084b**
Kashevarova, Tamara (*with* Semenov, Aleksandr Leonidovich) The use of the cooperative solver SibCalc in modeling of complex problems. (English summary) (*see* **2005c:00015**)
Kaya, Doğan (*with* El-Sayed, Salah M.) Adomian's decomposition method applied to systems of nonlinear algebraic equations. (English summary) **2005g:65089**
Kolev, Lubomir V. An improved interval linearization for solving nonlinear problems. (English summary)
Krejić, N. *see* **Francisco, J. B. et al.**, **2005k:65097**
Lang, Bruno *see* **Frommer, Andreas et al.**, **2005i:65079**
Lawless, A. S. (*with* Gratton, Serge; Nichols, N. K.) Approximate iterative methods for variational data assimilation. (English summary) **2005k:65098**
Li, Dong Hui[1] *see* **Qi, Liqun et al.**, **2005c:65044**
Li, Yao-hui (*with* Xue, Ji-wei; Feng, Yong[1]) Solving nonlinear systems via preprocessing and interval method. (English and Chinese summaries) **2005j:65051**
Loeper, Grégoire (*with* Rapetti, Francesca) Numerical solution of the Monge-Ampère equation by a Newton's algorithm. (English and French summaries)
Lopes, Véra Lucia Rocha *see* **Pérez, Rosana**
Macconi, Maria *see* **Bellavia, Stefania et al.**, **2005b:65061**
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Migallón, Violeta *see* **Arnal, Josep et al.**, **2005d:65082**
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Nikolova, Mila *see* **Chan, Raymond H. et al.**, **2005e:65065**
van Noorden, T. L. (*with* Verduyn Lunel, Sjoerd M.; Bliek, A.) A Broyden rank $p+1$ update continuation method with subspace iteration. (English summary) **2005h:65085**
Oliveira, Fernanda Aleixo *see* **Ferreira, José Augusto Mendes et al.**, **2005g:65087**
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Patrício, F. *see* **Ferreira, José Augusto Mendes et al.**, **2005g:65087**
Păvăloiu, Ion (*with* Cătinaş, Emil) On the Chebyshev method, with numerical applications to the eigenpair problem. (English summary) **2005f:65071**
Penadés, José *see* **Arnal, Josep et al.**, **2005d:65082**
Pérez, Rosana (*with* Lopes, Véra Lucia Rocha) Recent applications and numerical implementation of quasi-Newton methods for solving nonlinear systems of equations. (English summary)
Podlevs'kiĭ, B. M. One approach to construction of bilateral approximations methods for solution of nonlinear equations. (English summary) (*see* **2005i:00016**)
Polyak, Boris Teodorovich Newton-Kantorovich method and its global convergence. (English and Russian summaries) **2005i:65080**
Qi, Liqun (*with* Tong, Xiao Jiao; Li, Dong Hui[1]) Active-set projected trust-region algorithm for box-constrained nonsmooth equations. (English summary) **2005c:65044**
— *see also* **Tong, Xiao Jiao**, **2005i:65082**
Rajković, Predrag M. (*with* Stanković, Miomir S.; Marinković, Sladjana D.) On q-iterative methods for solving equations and systems. (English summary) **2005a:65052**
Rao, Ming *see* **Yang, Fenghong et al.**
Rapetti, Francesca *see* **Loeper, Grégoire**
Richard-Jung, Françoise *see* **Beringer, Frédéric**, **2005b:65062**
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Schnurr, M. *see* **Frommer, Andreas et al.**, **2005i:65079**
Selekwa, Majura F. (*with* Collins, Emmanuel G., Jr.) Numerical solutions for systems of 'qualitative' nonlinear algebraic equations by fuzzy logic. (English summary) **2005i:65081**
Semenov, Aleksandr Leonidovich *see* **Kashevarova, Tamara**, (**2005c:00015**)
Sen, Rabindranath Ball Newton's method versus ball Stirling's method. (English summary) **2005e:65067**

— (*with* Guhathakurta, Pulak) A globally convergent ball Stirling method. (English summary) **2005h:65086**

Shakhno, S. M. Application of nonlinear majorants for investigating the secant method for the solution of nonlinear equations. (Ukrainian. English and Russian summaries) **2005m:65110**

Shellman, Spencer (*with* Sikorski, Krzysztof Aleksander) A recursive algorithm for the infinity-norm fixed point problem. (English summary) **2005a:65053**

Shen, Yun Qiu (*with* Ypma, Tjalling J.) Newton's method for singular nonlinear equations using approximate left and right nullspaces of the Jacobian. (English summary)

Sikorski, Krzysztof Aleksander *see* **Shellman, Spencer**, **2005a:65053**

Sommese, Andrew J. (*with* Verschelde, Jan; Wampler, Charles W.) Homotopies for intersecting solution components of polynomial systems. (English summary) **2005m:65111**

Stanković, Miomir S. *see* **Rajković, Predrag M. et al.**, **2005a:65052**

Syam, Muhammed I. Finding all real zeros of polynomial systems using multi-resultant. (English summary) **2005c:65045**

Tang, Yun *see* **Yang, Fenghong et al.**

Tong, Xiao Jiao (*with* Qi, Liqun) On the convergence of a trust-region method for solving constrained nonlinear equations with degenerate solutions. (English summary) **2005i:65082**

— *see also* **Qi, Liqun et al.**, **2005c:65044**

Uhlig, Frank *see* **Ivanov, Ivan Ganchev et al.**, **2005h:65083**

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Wampler, Charles W. *see* **Sommese, Andrew J. et al.**, **2005m:65111**

Wei, Jun Qiang *see* **Yang, Zhong Hua[1] et al.**, **2005c:65046**

Wu, Qing Jun Disturbed Newton methods for nonlinear equations. (Chinese. English and Chinese summaries)

Wu, Yingquan (*with* Hadjicostis, Christoforos N.) On solving composite power polynomial equations. (English summary) **2005k:65099**

Xiong, Bo *see* **Yang, Zhong Hua[1] et al.**, **2005c:65046**

Xue, Ji-wei *see* **Li, Yao-hui et al.**, **2005j:65051**

Yamashita, Nobuo *see* **Kanzow, Christian et al.**, **2005h:65084a** *and* **2005h:65084b**

Yang, Fenghong (*with* He, Miao; Tang, Yun; Rao, Ming) Inexact block Newton methods for solving nonlinear equations. (English summary)

Yang, Zhong Hua[1] (*with* Wei, Jun Qiang; Xiong, Bo) Computation of higher-order singular points in nonlinear problems with single parameter. (Chinese. English and Chinese summaries) **2005c:65046**

Ypma, Tjalling J. *see* **Shen, Yun Qiu**

Zhu, De-tong Nonmonotone backtracking inexact quasi-Newton algorithms for solving smooth nonlinear equations. (English summary) **2005m:65112**

Items with secondary classifications in 65H10

Alefeld, Götz (*with* Frommer, Andreas; Heindl, Gerhard; Mayer, Jan) On the existence theorems of Kantorovich, Miranda and Borsuk. (English summary) **2005e:47120**

An, Heng Bin (*with* Bai, Zhong Zhi) Broyden method for nonlinear equation in several variables. (Chinese. English and Chinese summaries) **2005k:90147**

— (*with* Bai, Zhong Zhi) Directional secant method for nonlinear equations. (English summary) **2005j:65046**

Argyros, Ioannis K. A semilocal convergence analysis for the method of tangent hyperbolas. (English summary) **2005k:47157**

— On the Newton-Kantorovich hypothesis for solving equations. (English summary) **2005c:65047**

Arndt, Hans-Robert (*with* Mayer, Günter) On the semi-convergence of interval matrices. (English summary) **2005h:65079**

Attili, B. S. Numerical computation of cusp singularities for operator equations. (English summary) **2005g:47129**

Bai, Zhong Zhi *see* **An, Heng Bin**, **2005j:65046** *and* **2005k:90147**

Bakushinskiĭ, A. B. An iteratively regularized gradient method for solving nonlinear irregular equations. (Russian. Russian summary) **2005g:47130**

Bompadre, A. (*with* Matera, Guillermo; Wachenchauzer, R.; Waissbein, A.) Polynomial equation solving by lifting procedures for ramified fibers. (English summary) **2005g:13044**

Brown, Peter N. (*with* Vassilevski, Panayot S.; Woodward, Carol S.) On mesh-independent convergence of an inexact Newton-multigrid algorithm. (English summary) **2005k:65234**

Brugnano, Luigi (*with* Magherini, Cecilia) The BiM code for the numerical solution of ODEs. (English summary) **2005d:65108**

Cao, Ding-Hua *see* **Zhang, Zhong Zhi et al.**, **2005e:90162**

Cao, Li-hua (*with* Sun, Qing Ying) Global convergence of a new conjugate gradient methods with a modification of the Curry-Altman step-size rule. (English summary) **2005f:90155**

Chen, Yuan Yuan *see* **Du, Shou Qiang**, **2005f:90156**

Dong, June *see* **Xu, Yi Fan et al.**, **2005e:90160**

Du, Shou Qiang (*with* Chen, Yuan Yuan) Convergence analysis on a class of nonmonotone conjugate gradient methods without sufficient decrease condition. (English summary) **2005f:90156**

El-Danaf, Talaat S. *see* **Ramadan, Mohamed A. et al.**, **2005k:15033**

El-Shazly, Naglaa M. *see* **Ramadan, Mohamed A. et al.**, **2005k:15033**

Ford, John A. (*with* Moghrabi, Issam A. R.) On the use of implicit updates in minimum curvature multi-step quasi-Newton methods. (English summary) (*see* **2005j:65003**)

Frommer, Andreas *see* **Alefeld, Götz et al.**, **2005e:47120**

Fukushima, Masao *see* **Li, Dong Hui[1] et al.**, **2005d:90141**

Gao, Xiao-Shan (*with* Wang, DingKang) Zero decomposition theorems for counting the number of solutions for parametric equation systems. (English summary) **2005e:14094**

Gao, Yan[1] (*with* Li, Xuewen) Nonsmooth equations approach to a constrained minimax problem. (English summary) **2005m:90155**

Gervais, Jean-Jacques (*with* Sadiky, Hassan) A continuation method based on a high order predictor and an adaptive steplength control. (English summary) **2005f:65073**

Gichev, Todor R. (*with* Gicheva, Dora T.) Perturbations in the canonical equations of second-degree surfaces. (English and Bulgarian summaries) (*see* **2005f:00011**)

Gicheva, Dora T. *see* **Gichev, Todor R.**, (**2005f:00011**)

Gould, Nicholas I. M. (*with* Leyffer, Sven; Toint, Philippe L.) A multidimensional filter algorithm for nonlinear equations and nonlinear least-squares. (English summary) **2005m:90117**

Guo, Qiang *see* **Liu, Jian Guo**, **2005c:90116**

Hameyer, Kay *see* **Vande Sande, H. et al.**

Han, Ji Ye *see* **Zhang, Li Ping[1] et al.**, **2005k:90161**

Heindl, Gerhard *see* **Alefeld, Götz et al.**, **2005e:47120**

Henrotte, François *see* **Vande Sande, H. et al.**

Hintermüller, Michael (*with* Kovtunenko, V. A.; Kunisch, Karl) Generalized Newton methods for crack problems with nonpenetration condition. (English summary) **2005k:49090**

Huang, Zheng Hai *see* **Zhang, Li Ping[1] et al.**, **2005k:90161**

Jin, Xiao-Qing *see* **Li, Chong[1] et al.**, **2005b:65067**

Kato, Ryo[2] (*with* Nishiyama, Shin-Ichi) Optimal monetary policy when interest rates are bounded at zero. (English summary) **2005h:91174**

Kovtunenko, V. A. *see* **Hintermüller, Michael et al.**, **2005k:49090**

Kunisch, Karl *see* **Hintermüller, Michael et al.**, **2005k:49090**

Leyffer, Sven *see* **Gould, Nicholas I. M. et al.**, **2005m:90117**

Li, Chong[1] (*with* Zhang, Wen-Hong; Jin, Xiao-Qing) Convergence and uniqueness properties of Gauss-Newton's method. (English summary) **2005b:65067**

Li, Dong Hui[1] (*with* Fukushima, Masao; Qi, Liqun; Yamashita, Nobuo) Regularized Newton methods for convex minimization problems with singular solutions. (English summary) **2005d:90141**

Li, Kai Tai *see* **Wang, He Yuan**, **2005c:76032**

Li, Xuewen *see* **Gao, Yan[1]**, **2005m:90155**

Liu, Chunli *see* **Xu, Yi Fan et al.**, **2005e:90160**

Liu, Jian Guo (*with* Guo, Qiang) Global convergence properties of the modified BFGS method associating with general line search model. (English summary) **2005c:90116**

Lu, Lin Zhang Newton iterations for a non-symmetric algebraic Riccati equation. (English summary) **2005k:15032**

Lui, S. H. Nonlinearly preconditioned Newton's method. (*see* **2005f:65003**)

Magherini, Cecilia *see* **Brugnano, Luigi**, **2005d:65108**

Mateescu, George Daniel Numerical analysis of time dependent models. (English summary) **2005g:65090**

Matera, Guillermo *see* **Bompadre, A. et al.**, **2005g:13044**

Mayer, Günter *see* **Arndt, Hans-Robert**, **2005h:65079**

Mayer, Jan *see* **Alefeld, Götz et al.**, **2005e:47120**

Moghrabi, Issam A. R. *see* **Ford, John A.**, (**2005j:65003**)

Nechepurenko, M. I. On the convergence of the Chebyshev method. (Russian) **2005g:47134**

Nie, Pu Yan (*with* Peng, Xiao Fei) Feasible sequential quadratic programming approaches to the system of nonlinear equations. (Chinese. English summary) **2005k:90218**

Nishiyama, Shin-Ichi *see* **Kato, Ryo[2]**, **2005h:91174**

Olteanu, Alina (*with* Olteanu, Octav) Applications of Newton's method for convex "decreasing" functions and operators. (English and Romanian summaries) **2005j:65057**

Olteanu, Octav *see* **Olteanu, Alina**, **2005j:65057**

Peng, Xiao Fei *see* **Nie, Pu Yan**, **2005k:90218**

Popovich, V. S. *see* **P'yanilo, Ya. D. et al.**

P'yanilo, A. Ya. *see* **P'yanilo, Ya. D. et al.**

P'yanilo, Ya. D. (*with* Popovich, V. S.; P'yanilo, A. Ya.) An iterative scheme for solving nonlinear boundary value problems of nonstationary heat conduction type. (Ukrainian. English, Russian and Ukrainian summaries)

Qi, Liqun *see* **Li, Dong Hui[1] et al.**, **2005d:90141**

Ramadan, Mohamed A. (*with* El-Danaf, Talaat S.; El-Shazly, Naglaa M.) Iterative positive definite solutions of the two nonlinear matrix equations $X \pm A^{\mathrm{T}} X^{-2} A = I$. (English summary) **2005k:15033**

Rojas, J. Maurice Why polyhedra matter in non-linear equation solving. (English summary) **2005f:52026**

Sadiky, Hassan *see* **Gervais, Jean-Jacques**, **2005f:65073**

Schost, Éric Degree bounds and lifting techniques for triangular sets. (English summary) **2005a:13054**

Sommese, Andrew J. (*with* Verschelde, Jan; Wampler, Charles W.) Numerical factorization of multivariate complex polynomials. (English summary) **2005i:13038**

Sun, Qing Ying *see* **Cao, Li-hua**, **2005f:90155**

Sun, Wen Yu *see* **Yang, Zheng Hao**, **2005k:90159**

Toint, Philippe L. *see* **Gould, Nicholas I. M. et al.**, **2005m:90117**

Vande Sande, H. (*with* Henrotte, François; Hameyer, Kay) The Newton-Raphson method for solving non-linear and anisotropic time-harmonic problems. (English summary)

Vassilevski, Panayot S. *see* **Brown, Peter N. et al.**, **2005k:65234**

Verschelde, Jan *see* **Sommese, Andrew J. et al.**, **2005i:13038**

Wachenchauzer, R. *see* **Bompadre, A. et al.**, **2005g:13044**

Waissbein, A. *see* **Bompadre, A. et al.**, **2005g:13044**

Wampler, Charles W. *see* **Sommese, Andrew J. et al.**, **2005i:13038**

Wang, Chang Yu *see* **Wang, Yiju et al.**, **2005c:90102**

Wang, DingKang *see* **Gao, Xiao-Shan**, **2005e:14094**

Wang, He Yuan (*with* Li, Kai Tai) Numerical approximation of transcritical simple bifurcation point of the Navier-Stokes equations. (English summary) **2005c:76032**

Wang, Yiju (*with* Zhou, Houchun; Wang, Chang Yu) A regularization Newton method for mixed complementarity problems. (English summary) **2005c:90102**

Woodward, Carol S. *see* **Brown, Peter N. et al.**, **2005k:65234**

Xu, Da Chuan Global convergence of the Broyden's class of quasi-Newton methods with nonmonotone linesearch. (English summary) **2005f:90160**

Xu, Yi Fan (*with* Liu, Chunli; Dong, June) A rank-one fitting algorithm for unconstrained optimization problems. (English summary) **2005e:90160**

Xue, Yi A Newton-like algorithm for solving minimax optimization problems. (Chinese. English summary)

Yamashita, Nobuo *see* **Li, Dong Hui[1] et al.**, **2005d:90141**

Yang, Zheng Hao (*with* Sun, Wen Yu) A simpler proof of global convergence of Broyden class with inexact line search. (Chinese. English summary) **2005k:90159**

Yu, Zhen Sheng On the global convergence of a Levenberg-Marquardt method for constrained nonlinear equations. (English summary) **2005e:90129**
Zeng, Jin-Ping *see* **Zhang, Zhong Zhi et al., 2005e:90162**
Zhang, Ju-Liang On the convergence properties of the Levenberg-Marquardt method. (English summary) **2005e:90130**
Zhang, Li Ping[1] (*with* Han, Ji Ye; Huang, Zheng Hai) Superlinear/quadratic one-step smoothing Newton method for P_0-NCP. (English summary) **2005k:90161**
Zhang, Wen-Hong *see* **Li, Chong[1] et al., 2005b:65067**
Zhang, Zhong Zhi (*with* Cao, Ding-Hua; Zeng, Jin-Ping) Convergence property of a class of variable metric methods. (English summary) **2005e:90162**
Zhou, Houchun *see* **Wang, Yiju et al., 2005c:90102**

65H17 Eigenvalues, eigenvectors [see also 47Hxx, 47Jxx, 58C40, 58E07, 90C30]

Keller, H. B. RPM—a remedy for instability. (*see* **2005h:65004**)
Mehrmann, Volker (*with* Voss, Heinrich) Nonlinear eigenvalue problems: a challenge for modern eigenvalue methods. (English summary) **2005m:65113**
Spence, Alastair Eigenvalue and parameter approximation at Hopf bifurcation. (*see* **2005h:65004**)
Voss, Heinrich An Arnoldi method for nonlinear eigenvalue problems. (English summary) **2005f:65072**
— *see also* **Mehrmann, Volker, 2005m:65113**

Items with secondary classifications in 65H17

Chu, Moody T. (*with* Kuo, Yuen-Cheng; Lin, Wen Wei) On inverse quadratic eigenvalue problems with partially prescribed eigenstructure. (English summary) **2005h:65064**
Kuo, Yuen-Cheng *see* **Chu, Moody T. et al., 2005h:65064**
Li, Ren-Cang (*with* Ye, Qiang[1]) A Krylov subspace method for quadratic matrix polynomials with application to constrained least squares problems. (English summary) **2005a:15009**
Lin, Wen Wei *see* **Chu, Moody T. et al., 2005h:65064**
Ye, Qiang[1] *see* **Li, Ren-Cang, 2005a:15009**

65H20 Global methods, including homotopy approaches [see also 58C30, 90C30]

Bai, Feng Shan *see* **Liang, Heng et al., 2005d:65087**
Fujisawa, Katsuki *see* **Gunji, Takayuki et al., 2005d:65086**
Gervais, Jean-Jacques (*with* Sadiky, Hassan) A continuation method based on a high order predictor and an adaptive steplength control. (English summary) **2005f:65073**
Gunji, Takayuki (*with* Kim, Sunyoung; Kojima, Masakazu; Takeda, Akiko; Fujisawa, Katsuki; Mizutani, Tomohiko[2]) PHoM—a polyhedral homotopy continuation method for polynomial systems. (English summary) **2005d:65086**
He, Ji Huan Comparison of homotopy perturbation method and homotopy analysis method. (English summary) **2005f:65074**
— Asymptotology by homotopy perturbation method. (English summary)
Henderson, Michael E. Multiparameter parallel search branch switching. (English summary) **2005k:65100**
Kim, Sunyoung *see* **Gunji, Takayuki et al., 2005d:65086**
Kobayashi, Hidetsune *see* **Suzuki, Hideo[3], 2005e:65068**
Kojima, Masakazu *see* **Gunji, Takayuki et al., 2005d:65086**
Liang, Heng (*with* Liu, Xiao Yan[2]; Bai, Feng Shan) Optimization problem in multi-homogeneous homotopy method. (English summary) **2005d:65087**
Liu, Xiao Yan[2] *see* **Liang, Heng et al., 2005d:65087**
Mateescu, George Daniel Numerical analysis of time dependent models. (English summary) **2005g:65090**
Mizutani, Tomohiko[2] *see* **Gunji, Takayuki et al., 2005d:65086**
Sadiky, Hassan *see* **Gervais, Jean-Jacques, 2005f:65073**
Suzuki, Hideo[3] (*with* Kobayashi, Hidetsune) Calculation method of neighboring roots by homotopy method with a linear fractional transformation. (Japanese. English and Japanese summaries) **2005e:65068**
Takeda, Akiko *see* **Gunji, Takayuki et al., 2005d:65086**
Wu, Tzong-Mou A modified formula of ancient Chinese algorithm by the homotopy continuation technique. (English summary)

Items with secondary classifications in 65H20

Bai, Feng Shan *see* **Liang, Heng et al., 2005i:90049**
Bao, Gang[1] (*with* Liu, Jun[4]) Numerical solution of inverse scattering problems with multi-experimental limit aperture data. (English summary) **2005b:78018**
Chen, Ke[1] *see* **Hussein, Anwar, 2005a:37162**
Finta, Béla *see* **Horváth, Alexandru, 2005g:65088**
Horváth, Alexandru (*with* Finta, Béla) Finding roots of nonlinear systems of equations on a domain. (English summary) **2005g:65088**
Hussein, Anwar (*with* Chen, Ke[1]) Fast computational methods for locating fold points for the power flow equations. (English summary) **2005a:37162**
Kuznetsov, E. B. *see* **Shalashilin, V. I., 2005e:65002**
Liang, Heng (*with* Bai, Feng Shan; Shi, Leyuan) Computing the optimal partition of variables in multi-homogeneous homotopy methods. (English summary) **2005i:90049**
Liao, Shi-Jun ★ Beyond perturbation. **2005h:65003**
Lin, Zheng Hua *see* **Zhu, Dao Li et al., 2005b:90103**
Liu, Guo Xin (*with* Yu, Bo) Homotopy continuation method for linear complementarity problems. (English summary) **2005f:90138**
Liu, Jun[4] *see* **Bao, Gang[1], 2005b:78018**
Riaza, Ricardo Attraction domains of degenerate singular equilibria in quasi-linear ODEs. (English summary) **2005k:34011**
Shalashilin, V. I. (*with* Kuznetsov, E. B.) ★ Parametric continuation and optimal parametrization in applied mathematics and mechanics. **2005e:65002**
Shi, Leyuan *see* **Liang, Heng et al., 2005i:90049**
Wei, Jun Qiang *see* **Yang, Zhong Hua[1] et al., 2005c:65046**
Xiong, Bo *see* **Yang, Zhong Hua[1] et al., 2005c:65046**
Xu, Qing *see* **Zhu, Dao Li et al., 2005b:90103**
Yang, Zhong Hua[1] (*with* Wei, Jun Qiang; Xiong, Bo) Computation of higher-order singular points in nonlinear problems with single parameter. (Chinese. English and Chinese summaries) **2005c:65046**
Yu, Bo *see* **Liu, Guo Xin, 2005f:90138**
Zhu, Dao Li (*with* Xu, Qing; Lin, Zheng Hua) A homotopy method for solving bilevel programming problem. (English summary) **2005b:90103**

65H99 None of the above, but in this section

Syam, Muhammed I. Conjugate gradient predictor corrector method for solving large scale problems. (English summary) **2005m:65114**
Wang, Zhi Qiang[1] (*with* Zhou, Jianxin) A local minimax-Newton method for finding multiple saddle points with symmetries. (English summary) **2005j:65052**
Zhou, Jianxin *see* **Wang, Zhi Qiang[1], 2005j:65052**

Items with secondary classifications in 65H99

Babolian, E. (*with* Javadi, Sh.) New method for calculating Adomian polynomials. (English summary) **2005g:39042**
Javadi, Sh. *see* **Babolian, E., 2005g:39042**

65Jxx Numerical analysis in abstract spaces

65J05 General theory

Baines, Michael *see* **Wakefield, M. A. et al., 2005a:65054**
Baran, Ágnes *see* **Stoyan, G. et al., 2005i:65084**
Chin, Siu A. Structure of positive decompositions of exponential operators. (English summary) **2005m:65115**
Gegechkori, Zurab (*with* Rogava, Dzh. L.; Tsiklauri, Mikheil) The fourth order accuracy decomposition scheme for an evolution problem. (English summary) **2005i:65083**
Neuberger, J. W. (*with* Renka, Robert J.) Sobolev gradients: introduction, applications, problems. (English summary) **2005h:65087**
Porter, David[1] *see* **Wakefield, M. A. et al., 2005a:65054**
Renka, Robert J. *see* **Neuberger, J. W., 2005h:65087**
Rogava, Dzh. L. *see* **Gegechkori, Zurab et al., 2005i:65083**
Stoyan, G. (*with* Strauber, G.; Baran, Ágnes) Generalizations to discrete and analytical Crouzeix-Velte decompositions. (English summary) **2005i:65084**
Strauber, G. *see* **Stoyan, G. et al., 2005i:65084**
Tsiklauri, Mikheil *see* **Gegechkori, Zurab et al., 2005i:65083**
Wakefield, M. A. (*with* Baines, Michael; Porter, David[1]) Bounds on physical quantities. (English summary) **2005a:65054**

Items with secondary classifications in 65J05

Akroune, Nourredine Sur une variante de la méthode des boites pour la détermination numérique de la dimension fractale d'un sous-ensemble du plan. (English and French summaries) [A variation of the box-counting method for the numerical determination of the fractal dimension of a subset in 2D space] **2005c:28010**
Chen, Ru Dong *see* **Yao, Yong Hong**
Dekel, S. (*with* Leviatan, D.) The Bramble-Hilbert lemma for convex domains. (English summary) **2005d:41010**
Galántai, Aurél ★ Projectors and projection methods. **2005f:47022**
Leviatan, D. *see* **Dekel, S., 2005d:41010**
Lifanov, Ivan K. (*with* Poltavskiĭ, L. N.) Discrete operators in spaces of fractional quotients of periodic functions. (Russian. Russian summary) **2005m:47062**
Luo, Liangsheng *see* **Wu, Xinyuan, 2005f:90124**
Mīshura, Yulīya (*with* Shevchenko, Georgīĭ) Euler approximations of solutions of abstract equations and their applications to the theory of semigroups. (Ukrainian. English and Ukrainian summaries) **2005m:47090**
Oaku, Toshinori (*with* Shiraki, Yoshinao; Takayama, Nobuki) Algebraic algorithms for D-modules and numerical analysis. (English summary) **2005k:33020**
Poltavskiĭ, L. N. *see* **Lifanov, Ivan K., 2005m:47062**
Shevchenko, Georgīĭ *see* **Mīshura, Yulīya, 2005m:47090**
Shiraki, Yoshinao *see* **Oaku, Toshinori et al., 2005k:33020**
Takayama, Nobuki *see* **Oaku, Toshinori et al., 2005k:33020**
Trenogin, V. A. The condition measure, and implicit and inverse operators in metric spaces. (Russian) **2005h:47117**
Wu, Xinyuan (*with* Luo, Liangsheng) Point monotonicity of maps and its applications in numerical computation. (English summary) **2005f:90124**
Yao, Yong Hong (*with* Chen, Ru Dong) Some strong convergence theorems for Ishikawa iterative schemes for asymptotically nonexpansive mappings in uniformly convex Banach spaces. (Chinese. English and Chinese summaries)

65J10 Equations with linear operators (do not use 65Fxx)

Abramov, A. A. (*with* Ul'yanova, V. I.; Yukhno, L. F.) On an implementation of an elimination method in linear problems with inexactly specified initial data. (Russian. Russian summary) **2005f:65075**
Bao, Gang[1] (*with* Zhou, Aihui) Analysis of finite dimensional approximations to a class of partial differential equations. (English summary) **2005i:65085**
Gavrilyuk, Ivan P. (*with* Makarov, Vladimir L.) Algorithms without accuracy saturation for evolution equations in Hilbert and Banach spaces. (English summary) **2005j:65053**
Glowinski, Roland (*with* Lapin, S. A.) Iterative solution of linear variational problems in Hilbert spaces: some conjugate gradients success stories. **2005h:65088**
Lal, Shine *see* **Nair, M. Thamban, 2005m:65116**
Lapin, S. A. *see* **Glowinski, Roland, 2005h:65088**

Luther, Uwe Approximation spaces in the numerical analysis of operator equations. (English summary) **2005d:65088**
Makarov, Vladimir L. *see* **Gavrilyuk, Ivan P., 2005j:65053**
Nair, M. Thamban (*with* Lal, Shine) A finite dimensional realization of the mollifier method for compact operator equations. (English summary) **2005m:65116**
Paraskevopoulos, A. G. A recursive approach to the solution of abstract linear equations and the tau method. (English summary) **2005h:65089**
Rieder, Andreas (*with* Schuster, Thomas) The approximate inverse in action. III. 3D-Doppler tomography. (English summary) **2005f:65076**
Sayas, Francisco-Javier Aubin-Nitsche estimates are equivalent to compact embeddings. (English summary) **2005g:65091**
Schuster, Thomas *see* **Rieder, Andreas, 2005f:65076**
Ul′yanova, V. I. *see* **Abramov, A. A. et al., 2005f:65075**
Yukhno, L. F. *see* **Abramov, A. A. et al., 2005f:65075**
Zhou, Aihui *see* **Bao, Gang[1], 2005i:65085**

Items with secondary classifications in 65J10

Creutzig, Jakob (*with* Wojtaszczyk, P.) Linear vs. nonlinear algorithms for linear problems. (English summary) **2005h:47126**
Daugavet, I. K. Some problems of convergence in weak norms. (Russian. Russian summary) **2005c:46110**
Ding, Jiu Lower and upper bounds for the perturbation of linear operators equations. (English summary) **2005b:47023**
— (*with* Rhee, N. H.) Approximations of Frobenius-Perron operators via interpolation. (English summary) **2005c:37035**
Gnaneshwar, N. *see* **Kulkarni, Rekha P., 2005f:47024**
Greenberg, Leon (*with* Marletta, Marco) The Ekman flow and related problems: spectral theory and numerical analysis. (English summary) **2005g:76051**
Guidetti, Davide (*with* Karasözen, Bülent; Piskarëv, S. I.) Approximation of abstract differential equations. **2005g:34127**
Hausenblas, E. A note on space approximation of parabolic evolution equations. (English summary) **2005g:34128**
Huyer, Waltraud Approximation of a linear age-dependent population model with spatial diffusion. (English summary) **2005a:47066**
Karasözen, Bülent *see* **Guidetti, Davide et al., 2005g:34127**
Kulkarni, Rekha P. (*with* Gnaneshwar, N.) Spectral refinement using a new projection method. (English summary) **2005f:47024**
Larsson, Stig Preservation of strong stability associated with analytic semigroups. (*see* **2005h:65004**)
Marletta, Marco *see* **Greenberg, Leon, 2005g:76051**
Müller, Claus (*with* Schock, Eberhard) Ill-posed problems, C_0-semigroups and the Showalter regularization. (English summary) **2005f:47102**
Neubauer, Mathias *see* **Westphal, U., 2005e:47042**
Piskarëv, S. I. *see* **Guidetti, Davide et al., 2005g:34127**
Redner, Oliver Discrete approximation of non-compact operators describing continuum-of-alleles models. (English summary) **2005g:47023**
Rhee, N. H. *see* **Ding, Jiu, 2005c:37035**
Roşca, Ioan On the solvability of linear variational equations with constrains. (English summary) [On the solvability of linear variational equations with constraints] **2005f:47027**
Saito, Norikazu Remarks on the rational approximation of holomorphic semigroups with nonuniform partitions. (English summary) **2005g:47086**
Schock, Eberhard *see* **Müller, Claus, 2005f:47102**
Silbermann, Bernd Asymptotic invertibility of continuous functions of one-sided invertible operators. (English summary) **2005j:47003**
Sprekels, Jürgen (*with* Tiba, Dan) An approximation method for curved rods. (English summary) **2005f:74040**
Takači, Arpad *see* **Takači, Djurdjica, 2005e:44009** *and* **2005j:44005**
Takači, Djurdjica (*with* Takači, Arpad) The approximate solution of nonlinear operational equations. (English summary) **2005e:44009**
— (*with* Takači, Arpad) The character of operational successive approximations. (English summary) **2005j:44005**
Tiba, Dan *see* **Sprekels, Jürgen, 2005f:74040**
Vaĭnikko, G. M. GMRES and discrete approximation of operators. (English and Estonian summaries) **2005e:47025**
Vasin, V. V. Regularization and iterative approximation for linear ill-posed problems in the space of functions of bounded variation. (English summary) **2005b:65068**
Wang, Lianglong (*with* Wang, Zhi Cheng[1]) Monotone iterative techniques for parameterized BVPs of abstract semilinear evolution equations. (English summary) **2005b:35161**
Wang, Zhi Cheng[1] *see* **Wang, Lianglong, 2005b:35161**
Westphal, U. (*with* Neubauer, Mathias) Fractional powers of group generators via fractional central differences. (English summary) **2005e:47042**
Wojtaszczyk, P. *see* **Creutzig, Jakob, 2005h:47126**

65J15 Equations with nonlinear operators (do not use 65Hxx)

Amat, Sergio (*with* Busquier, Sonia; Candela, Vicente) Third order iterative methods without using second Fréchet derivative. (English summary) **2005b:65063**
Argyros, Ioannis K. On the solution and applications of generalized equations using Newton's method. (English summary)
— On the Newton-Kantorovich hypothesis for solving equations. (English summary) **2005c:65047**
— A unifying local-semilocal convergence analysis and applications for two-point Newton-like methods in Banach space. (English summary)
— A convergence analysis and applications for the Newton-Kantorovich method in K-normed spaces. (English summary) **2005b:65064**
— New sufficient convergence conditions for the secant method. (English summary) **2005j:65054**
— Concerning the "terra incognita" between convergence regions of two Newton methods. (English summary) **2005m:65117**
Bhat, M. I. *see* **Kazmi, K. R., 2005j:65056**
Busquier, Sonia *see* **Amat, Sergio et al., 2005b:65063**
Candela, Vicente *see* **Amat, Sergio et al., 2005b:65063**
Cen, Zhong Di *see* **Gao, Huai Yi**
Cianciaruso, Filomena Convergence theorems for Newton-like methods for operators with generalized Hölder derivative. (English summary) **2005d:65089**
Cohen, Albert (*with* Dahmen, Wolfgang; DeVore, Ronald) Adaptive wavelet schemes for nonlinear variational problems. (English summary) **2005a:65055**
Cui, Ming Gen *see* **Li, Chun Li, 2005h:65091**
Dahmen, Wolfgang *see* **Cohen, Albert et al., 2005a:65055**
De Pascale, Espedito (*with* Zabreĭko, P. P.) Fixed point theorems for operators in spaces of continuous functions. (English summary) **2005d:65090**
DeVore, Ronald *see* **Cohen, Albert et al., 2005a:65055**
Feng, Xian Zhi (*with* Ni, Ren Xing) A convergence theorem for modified Reich-Takahashi iterative sequences with random errors for asymptotically nonexpansive mappings. (Chinese. English and Chinese summaries)
Gao, Huai Yi (*with* Cen, Zhong Di) Convergence of a midpoint iterative method with weaker conditions. (Chinese. English and Chinese summaries)
Gutiérrez Jimenez, José Manuel (*with* Hernández Verón, Miguel A.; Salanova, M. Amparo) α-theory for nonlinear Fredholm integral equations. (English summary) **2005m:65118**
Ha-Duong, Tuong (*with* Jaoua, Mohamed; Menif, Faiza) A modified frozen Newton method to identify a cavity by means of boundary measurements. (English summary) (*see* **2005b:00020**)
He, Chang *see* **Sun, Zhao Hong et al., 2005d:65091**
He, Zhen[1] *see* **Zhao, Fen**
Hernández Verón, Miguel A. (*with* Rubio, M. J.) A modification of Newton's method for nondifferentiable equations. (English summary) **2005b:65065**
— *see also* **Gutiérrez Jimenez, José Manuel et al., 2005m:65118**
Hintermüller, Michael (*with* Ulbrich, Michael) A mesh-independence result for semismooth Newton methods. (English summary) **2005f:65077**
Iqbal, Mohammad[1] Numerical solutions of linear ill-posed problems. (English summary) **2005j:65055**
Jaoua, Mohamed *see* **Ha-Duong, Tuong et al., (2005b:00020)**
Jin, Lei[2] (*with* Zhou, Zhe; Liu, Xu[1]) Computation and estimation of iteration. (Chinese. English and Chinese summaries)
Jin, Xiao-Qing *see* **Li, Chong[1] et al., 2005b:65067**
Kazmi, K. R. (*with* Bhat, M. I.) Iterative algorithm for a system of nonlinear variational-like inclusions. (English summary) **2005j:65056**
Kokurin, M. Yu. Continuous methods for the stable approximation of solutions of nonlinear equations in a Hilbert space, based on the regularized Gauss-Newton scheme. (Russian. Russian summary) **2005b:65066**
Krasnosel′skiĭ, A. M. (*with* Pokrovskiĭ, A. V.; Rachinskiĭ, D. I.) A comparison of guaranteed estimates for the rate of convergence of a class of iterative procedures. (Russian. Russian summary) **2005k:65101**
Kucheruk, T. A. An iterative method for constructing solutions of weakly nonlinear equations with restrictions. (Ukrainian. English and Ukrainian summaries) **2005h:65090**
Lebedev, V. I. Chebyshev-Markov-Bernstein-Szegő polynomials and algorithms for the optimization of Chebyshev iterative methods on classes of initial errors. (Russian) **2005k:65102**
Li, Chong[1] (*with* Zhang, Wen-Hong; Jin, Xiao-Qing) Convergence and uniqueness properties of Gauss-Newton's method. (English summary) **2005b:65067**
Li, Chun Li (*with* Cui, Ming Gen) Methods for solving the equation $AuBu + Cu = f$. (Chinese. English summary) **2005h:65091**
Li, Jun[9] Inequalities on sequences with applications. (Chinese. English and Chinese summaries) **2005g:65092**
Liu, Xu[1] *see* **Jin, Lei[2] et al.**
Menif, Faiza *see* **Ha-Duong, Tuong et al., (2005b:00020)**
Ni, Ren Xing *see* **Feng, Xian Zhi**
Ni, Yong Qin *see* **Sun, Zhao Hong et al., 2005d:65091**
Olteanu, Alina (*with* Olteanu, Octav) Applications of Newton's method for convex "decreasing" functions and operators. (English and Romanian summaries) **2005j:65057**
Olteanu, Octav *see* **Olteanu, Alina, 2005j:65057**
Pokrovskiĭ, A. V. *see* **Krasnosel′skiĭ, A. M. et al., 2005k:65101**
Rachinskiĭ, D. I. *see* **Krasnosel′skiĭ, A. M. et al., 2005k:65101**
Reich, Simeon (*with* Xu, Hong-Kun) An iterative approach to a constrained least squares problem [MR1983077 (2004c:65062)]. (*see* **2005d:00015**)
Rodríguez-Arós, A. (*with* Sofonea, Mircea; Viaño Rey, Juan M.) Numerical analysis of a class of variational inequalities with integral term. (English summary) **2005g:65093**
Rubio, M. J. *see* **Hernández Verón, Miguel A., 2005b:65065**
Salanova, M. Amparo *see* **Gutiérrez Jimenez, José Manuel et al., 2005m:65118**
Sofonea, Mircea *see* **Rodríguez-Arós, A. et al., 2005g:65093**
Song, Guang Xing Iterative solutions for systems of nonlinear operator equations in Banach space. (English summary) **2005c:65048**
Su, Ke Three-step iterations with errors for nonlinear strongly accretive operator equations. (Chinese. English and Chinese summaries)
Sun, Zhao Hong (*with* He, Chang; Ni, Yong Qin) Iterative convergence of fixed points for minor asymptotically nonexpansive type mappings with external error. (Chinese. English and Chinese summaries) **2005d:65091**
Ulbrich, Michael *see* **Hintermüller, Michael, 2005f:65077**
Viaño Rey, Juan M. *see* **Rodríguez-Arós, A. et al., 2005g:65093**
Xu, Hong-Kun *see* **Reich, Simeon, (2005d:00015)**
Zabreĭko, P. P. *see* **De Pascale, Espedito, 2005d:65090**
Zeng, Liu Chuan Relaxing convergence of Newton's method for solving the operator equation. (Chinese. English and Chinese summaries) **2005i:65086**
Zhang, Wen-Hong *see* **Li, Chong[1] et al., 2005b:65067**
Zhao, Fen (*with* He, Zhen[1]) Three-step iterations for nonlinear accretive operator equations and their convergence analysis. (Chinese. English and Chinese summaries)
Zhou, Zhe *see* **Jin, Lei[2] et al.**

Items with secondary classifications in 65J15

Agarwal, Ravi P. (*with* Zhou, Hai Yun; Cho, Yeol Je; Kang, Shin Min) Zeros and mapping theorems for perturbations of m-accretive operators in Banach spaces. (English summary) **2005i:47085**

Agoshkov, V. I. Iterative processes for some boundary value problems of hydrodynamics. (English summary) **2005c:76070**

Ahues, Mario Newton methods with Hölder derivative. (English summary) **2005k:65095**

Al-Shemas, Eman (*with* Billups, Stephen C.) An iterative method for generalized set-valued nonlinear mixed quasi-variational inequalities. (English summary) **2005f:49012**

Amat, Sergio (*with* Busquier, Sonia; Negra, Mehdi) Adaptive approximation of nonlinear operators. (English summary) **2005k:41064**

— (*with* Busquier, Sonia; Plaza S., Sergio) Constructing attracting periodic orbits of three third-order iterative methods. (English summary) **2005k:37205**

Argyros, Ioannis K. ★ Contemporary computational methods in numerical analysis. Part I. **2005a:65051a**

— ★ Contemporary computational methods in numerical analysis. Part II. **2005a:65051b**

— Weak sufficient convergence conditions and applications for Newton methods. (English summary)

— A note on a new way of enlarging the convergence radius for Newton's method. (English summary)

— An iterative method for computing zeros of operators satisfying autonomous differential equations. (English summary)

— ★ Newton methods. **2005m:65001**

— On alternative directions to some theorems of S. Smale and W. C. Rheinboldt concerning Newton's method. (English summary)

— On the semilocal convergence of Newton's method under weak Lipschitz continuous derivative. (English summary)

— On some theorems concerning the convergence of Newton methods. (English summary)

— On a weak semilocal convergence theorem for Newton's method in Banach space. (English summary)

— An improved approach of obtaining good starting points for solving equations by Newton's method. (English summary)

— On the semilocal convergence of the secant method under relaxed conditions. (English summary)

— On the applicability of Newton's method for solving equations in a Banach space under center-Lipschitz-type conditions. (English summary)

— Concerning the convergence of a certain class of Newton-like methods in a Banach space. (English summary)

— On the weak Newton method for solving equations in a Banach space. (English summary)

— A semilocal convergence analysis of Newton's method involving operators with values in a cone. (English summary)

— Lower and upper bounds for the distance of a manifold to a nearby point. (English summary)

— Enlarging the radius of convergence for iterative methods by using a one parameter operator imbedding. (English summary)

— On the Newton-Kantorovich method in Riemannian manifolds. (English summary)

— On the computation of shadowing orbits for dynamical systems. (English summary)

— On the semilocal convergence of the Gauss-Newton method. (English summary)

— On the computation of continuation curves for solving nonlinear equations. (English summary)

— Toward a unified convergence theory for Newton-like methods of "bounded deteriation". (English summary)

— Enlarging the convergence domain of Newton's method under regular smoothness conditions. (English summary)

— A convergence analysis of Newton-like methods for singular equations using outer or generalized inverses. (English summary) **2005k:47158**

— On the approximation of strongly regular solutions for generalized equations. (English summary)

— Convergence radii for Newton's method. (English summary)

— Convergence radii for Newton's method. II. (English summary)

Badea, Lori (*with* Tai, Xue-Cheng; Wang, Jun Ping[1]) Convergence rate analysis of a multiplicative Schwarz method for variational inequalities. (English summary) **2005a:65059**

Billups, Stephen C. *see* **Al-Shemas, Eman, 2005f:49012**

Buică, Adriana Quasilinearization method for nonlinear elliptic boundary-value problems. (English summary)

Busquier, Sonia *see* **Amat, Sergio et al., 2005k:37205** *and* **2005k:41064**

Cabada, Alberto (*with* Cid, José Ángel) A note on fixed-points theorems for T-monotone operators. (English summary) **2005b:47121**

Carl, Siegfried (*with* Le, Vy Khoi) Monotone penalty approximation of extremal solutions for quasilinear noncoercive variational inequalities. (English summary) **2005c:35123**

Censor, Yair (*with* Elfving, Tommy) Iterative algorithms with seminorm-induced oblique projections [MR1982660 (2004c:90038)]. (*see* **2005d:00015**)

Chadli, Ouayl (*with* Konnov, Igor V.; Yao, Jen Chih) Descent methods for equilibrium problems in a Banach space. (English summary) **2005m:49015**

Cho, Yeol Je *see* **Zhang, Shi Sheng et al., 2005a:47130**; **Agarwal, Ravi P. et al., 2005i:47085** *and* **Zhou, Hai Yun et al.**

Cid, José Ángel *see* **Cabada, Alberto, 2005b:47121**

Cohen, Albert Theoretical, applied and computational aspects of nonlinear approximation. (English summary) (*see* **2005b:41001**)

Crombez, Gilbert Finding common fixed points of a class of paracontractions. (English summary) **2005b:47123**

Ding, Xie Ping Predictor-corrector iterative algorithms for solving generalized mixed variational-like inequalities. (English summary) **2005b:49019**

— Iterative algorithms for solving generalized nonlinear mixed variational inequalities. (English summary) **2005h:49018**

Dodd, T. J. (*with* Harrison, Robert F.) The gradient iteration for approximation in reproducing kernel Hilbert spaces. (English summary) **2005f:47028**

Duque B., Rodrigo Solution of some nonlinear problems with an iterative method. (Spanish. Spanish summary) **2005k:47026**

Elfving, Tommy *see* **Censor, Yair, (2005d:00015)**

Ezquerro, José A. (*with* Hernández Verón, Miguel A.) A modification of the convergence conditions for Picard's iteration. (English summary) **2005k:47159**

Fakhar-Ud-Din, Hafiz *see* **Khan, Safeer Hussain, 2005k:47118**

Fang, Ya Ping (*with* Huang, Nan Jing; Thompson, Heven Bevan) A new system of variational inclusions with (H,η)-monotone operators in Hilbert spaces. (English summary) **2005m:47136**

Galperin, A. M. Kantorovich's majorization and functional equations. (English summary) **2005d:47113**

Geoffroy, Michel H. (*with* Piétrus, Alain) A superquadratic method for solving generalized equations in the Hölder case. (English summary) **2005g:49030**

— (*with* Piétrus, Alain) An iterative method for perturbed generalized equations. (English summary) **2005h:90162**

Groisser, David Newton's method, zeroes of vector fields, and the Riemannian center of mass. (English summary) **2005e:53042**

Guhathakurta, Pulak *see* **Sen, Rabindranath, 2005h:65086**

Guo, G. T. *see* **Zhou, Hai Yun et al.**

Gutiérrez Jimenez, José Manuel (*with* Hernández Verón, Miguel A.; Salanova, M. Amparo) On the approximate solution of some Fredholm integral equations by Newton's method. (English summary)

Harrison, Robert F. *see* **Dodd, T. J., 2005f:47028**

Hernández Verón, Miguel A. *see* **Ezquerro, José A., 2005k:47159** *and* **Gutiérrez Jimenez, José Manuel et al.**

Huang, Nan Jing *see* **Fang, Ya Ping et al., 2005m:47136**

Huang, Zhengda The convergence ball of Newton's method and the uniqueness ball of equations under Hölder-type continuous derivatives. (English summary) **2005d:65083**

Hwang, Ho Jin *see* **Zhou, Hai Yun et al.**

Isac, George (*with* Li, Jinlu) The convergence property of Ishikawa iteration schemes in noncompact subsets of Hilbert spaces and its applications to complementarity theory. (English summary) **2005b:47127**

Jeong, Jae Ug Generalized set-valued variational inclusions and resolvent equations in Banach spaces. (English summary) **2005c:49020**

Kaldo, Indrek (*with* Vaarmann, Otu) A convergence theorem for approximate methods of tangent hyperbolas. (English and Estonian summaries) **2005g:47132**

Kang, Shin Min *see* **Zhao, Yali et al., 2005b:49035** *and* **Agarwal, Ravi P. et al., 2005i:47085**

Khan, Safeer Hussain (*with* Fakhar-Ud-Din, Hafiz) Weak and strong convergence of a scheme with errors for two nonexpansive mappings. (English summary) **2005k:47118**

Kikkawa, Misako (*with* Takahashi, Wataru) Approximating fixed points of nonexpansive mappings by the block iterative method in Banach spaces. (English summary)

Kim, Kun Ho *see* **Zhao, Yali et al., 2005b:49035**

Konnov, Igor V. *see* **Chadli, Ouayl et al., 2005m:49015**

Le, Vy Khoi *see* **Carl, Siegfried, 2005c:35123**

Li, Jinlu *see* **Isac, George, 2005b:47127**

Li, Kai Tai *see* **Wang, He Yuan et al., 2005f:47144**

Li, Wen-feng *see* **Zhang, Zhi Hong[2], 2005k:47160**

Luchka, A. Yu. A modified variational-gradient method for quasilinear equations. (Russian. English and Ukrainian summaries) **2005g:47133**

Luo, Chun Lin (*with* Yao, Yi Min) Ishikawa iterative algorithms for solutions of Browder variational inequalities without Lipschitz condition. (Chinese. English and Chinese summaries)

Malhotra, Sandeep Kumar *see* **Rajput, Anil**

Marino, Giuseppe (*with* Xu, Hong-Kun) Convergence of generalized proximal point algorithms. (English summary) **2005h:90163**

Marudai, M. *see* **Vijayaraju, P., 2005m:47120**

Măruşter, Ştefan On the projection methods for convex feasibility problems. (English summary)

Moudafi, Abdellatif A perturbed inertial proximal method for maximal monotone operators. (English summary) **2005d:49034**

Murashige, Sunao *see* **Tanaka, Ken'ichiro et al., 2005m:65309**

Nechepurenko, M. I. On the convergence of the Chebyshev method. (Russian) **2005g:47134**

Negra, Mehdi *see* **Amat, Sergio et al., 2005k:41064**

Oishi, Shin'ichi *see* **Tanaka, Ken'ichiro et al., 2005m:65309**

Olteanu, Octav (*with* Simion, Gheorghe) A new geometric aspect of the implicit function principle and Newton's method for operators. (English summary) **2005k:47148**

Osilike, M. O. Implicit iteration process for common fixed points of a finite family of pseudocontractive maps. (English summary) **2005b:47135**

Panahi, Mehdi Piecewise quadratic Markov approximations of Frobenius-Perron operators associated with piecewise convex transformations. (English summary) **2005d:37077**

Petrov, M. Yu. *see* **Verzhbitskiĭ, V. M., 2005g:47135**

Pham Ky Anh (*with* Tran Quoc Binh[1]) Stability and convergence of implicit iteration processes. (English summary) **2005i:47112**

Piétrus, Alain *see* **Geoffroy, Michel H., 2005g:49030** *and* **2005h:90162**

Plaza S., Sergio *see* **Amat, Sergio et al., 2005k:37205**

Polyak, Boris Teodorovich Newton-Kantorovich method and its global convergence. (English and Russian summaries) **2005i:65080**

Rajput, Anil (*with* Malhotra, Sandeep Kumar) A general principle for Mann iteration. (English summary)

Ramm, Alexander G. Inequalities for solutions to some nonlinear equations. (English summary) **2005c:37147**

Rhoades, B. E. (*with* Verma, Ram U.) Two-step algorithms and their applications to variational problems. (English summary) **2005a:49017**

Salanova, M. Amparo *see* **Gutiérrez Jimenez, José Manuel et al.**

Sen, Rabindranath (*with* Guhathakurta, Pulak) A globally convergent ball Stirling method. (English summary) **2005h:65086**

Simion, Gheorghe *see* **Olteanu, Octav, 2005k:47148**

Sun, Jing Xian *see* **Zhang, Jin Qing, 2005m:47122**

Tai, Xue-Cheng *see* **Badea, Lori et al., 2005a:65059**

Takahashi, Wataru *see* **Kikkawa, Misako**
Tanaka, Ken'ichiro (*with* Murashige, Sunao; Oishi, Shin'ichi) On necessary and sufficient conditions for numerical verification of double turning points. (English summary) **2005m:65309**
Thompson, Heven Bevan *see* **Fang, Ya Ping et al., 2005m:47136**
Tran Quoc Binh[1] *see* **Pham Ky Anh, 2005i:47112**
Vaarmann, Otu *see* **Kaldo, Indrek, 2005g:47132**
Verma, Ram U. *see* **Rhoades, B. E., 2005a:49017**
Verzhbitskiĭ, V. M. (*with* Petrov, M. Yu.) On the polar Newton method in finite-dimensional and Banach spaces. (Russian. Russian summary) **2005g:47135**
Vijayaraju, P. (*with* Marudai, M.) Some results on common fixed points and best approximations. (English summary) **2005m:47120**
Wang, He Yuan (*with* Zhu, Zhen Guang; Li, Kai Tai) Numerical approximation of solution branches at a multiple limit point. (Chinese. English and Chinese summaries) **2005f:47144**
Wang, Jun Ping[1] *see* **Badea, Lori et al., 2005a:65059**
Wang, Shao Rong (*with* Zuo, Guo Chao) Iterative approximation for the fixed points of asymptotically quasi-nonexpansive mappings. (Chinese. English and Chinese summaries)
Wang, Yiju *see* **Xiu, Naihua et al., 2005b:47139**
Xiu, Naihua (*with* Wang, Yiju; Zhang, Xiang Sun) Modified fixed-point equations and related iterative methods for variational inequalities. (English summary) **2005b:47139**
Xu, Hong-Kun *see* **Marino, Giuseppe, 2005h:90163**
Yao, Jen Chih *see* **Chadli, Ouayl et al., 2005m:49015**
Yao, Qing Liu Monotonic iterative technique for a class of second-order two-point boundary value problems. (Chinese. English and Chinese summaries) **2005a:65069**
Yao, Yi Min *see* **Luo, Chun Lin**
Zhang, Fei Ran (*with* Zhou, Xiao-zhong) Iterative solutions for a non-monotone binary operator equations and operator system of equations. (English summary) **2005b:47154**
Zhang, Jin Qing (*with* Sun, Jing Xian) The iterative technique of fixed points for increasing operators and its applications to nonlinear integral equations. (Chinese. English and Chinese summaries) **2005m:47122**
Zhang, Shi Sheng (*with* Cho, Yeol Je; Zhou, Hai Yun) ★ Iterative methods for nonlinear operator equations in Banach spaces. **2005a:47130**
Zhang, Xiang Sun *see* **Xiu, Naihua et al., 2005b:47139**
Zhang, Zhi Hong[2] (*with* Li, Wen-feng) Iterative solution for systems of nonlinear two binary operator equations. (English summary) **2005k:47160**
Zhao, Yali (*with* Kang, Shin Min; Kim, Kun Ho) On generalized nonlinear variational inclusions. (English summary) **2005b:49035**
Zhou, Hai Yun (*with* Guo, G. T.; Hwang, Ho Jin; Cho, Yeol Je) On the iterative methods for nonlinear operator equations in Banach spaces. (English summary)
— *see also* **Zhang, Shi Sheng et al., 2005a:47130** *and* **Agarwal, Ravi P. et al., 2005i:47085**
Zhou, Xiao-zhong *see* **Zhang, Fei Ran, 2005b:47154**
Zhu, Zhen Guang *see* **Wang, He Yuan et al., 2005f:47144**
Zuo, Guo Chao *see* **Wang, Shao Rong**

65J20 Improperly posed problems; regularization

Antonova, T. V. Solving equations of the first kind on classes of functions with singularities. (English summary) **2005d:65092**
Bakushinskiĭ, A. B. (*with* Kokurin, M. Yu.; Kozlov, A. I.) On stable iterative methods of gradient type for the inverse medium scattering problem. (English summary) **2005m:65119**
Chen, Guo Liang[1] (*with* Wei, Yi Min; Xue, Yifeng) The generalized condition numbers of bounded linear operators in Banach spaces. (English summary) **2005e:65069**
Cohen, Albert (*with* Hoffmann, Marc; Reiß, Markus) Adaptive wavelet Galerkin methods for linear inverse problems. (English summary) **2005i:65087**
Dorofeev, K. Yu. (*with* Yagola, A. G.) The method of extending compacts and a posteriori error estimates for nonlinear ill-posed problems. (English summary) **2005i:65088**
Elliott, Lionel *see* **Marin, Liviu et al., 2005g:65095** *and* **Mera, N. S. et al., 2005g:65096**
Fischer, Silva *see* **Hansen, Olaf et al., 2005e:65072**
Gorbunov, Vladimir K. Regularization of nonlinear ill-posed problems with parametrized data. (Russian) **2005j:65058**
Hämarik, Uno (*with* Tautenhahn, Ulrich) On the monotone error rule for parameter choice in iterative and continuous regularization methods. (English summary) **2005e:65070**
— (*with* Raus, Toomas) On the choice of the regularization parameter in the case of the approximately given noise level of data. (English summary) (*see* **2005j:65003**)
— (*with* Raus, Toomas) On the choice of the regularization parameter for solving self-adjoint ill-posed problems with the approximately given noise level of data. (English and Estonian summaries) **2005e:65071**
— (*with* Raus, Toomas) Choice of the regularization parameter in ill-posed problems with rough estimate of the noise level of data. (English summary)
Hansen, Olaf (*with* Fischer, Silva; Ramlau, Ronny) Regularization of Mellin-type inverse problems with an application to oil engineering. (English summary) **2005e:65072**
Heggs, P. J. *see* **Marin, Liviu et al., 2005g:65095**
Hoffmann, Marc *see* **Cohen, Albert et al., 2005i:65087**
Hou, Zong Yi *see* **Yang, Hong Qi, 2005k:65105**
Ikehata, Masaru (*with* Siltanen, Samuli) Numerical solution of the Cauchy problem for the stationary Schrödinger equation using Faddeev's Green function. (English summary) **2005j:65059**
Ingham, Derek B. *see* **Marin, Liviu et al., 2005g:65095** *and* **Mera, N. S. et al., 2005g:65096**
Knowles, Ian W. Variational methods for ill-posed problems. (English summary) **2005m:65120**
Kojdecki, Marek Andrzej Examples of saturated convergence rates for Tikhonov regularization. (English summary) **2005g:65094**
Kokurin, M. Yu. *see* **Bakushinskiĭ, A. B. et al., 2005m:65119**
Kozlov, A. I. *see* **Bakushinskiĭ, A. B. et al., 2005m:65119**
Lal, Shine *see* **Nair, M. Thamban, 2005j:65060**
Leonov, A. S. Regularizing functionals of general form for solving ill-posed problems in Lebesgue spaces. (Russian. Russian summary) **2005e:65073**
Lesnic, Daniel *see* **Marin, Liviu et al., 2005g:65095**
Marin, Liviu (*with* Elliott, Lionel; Heggs, P. J.; Ingham, Derek B.; Lesnic, Daniel; Wen, Xian Yun) Comparison of regularization methods for solving the Cauchy problem associated with the Helmholtz equation. (English summary) **2005g:65095**
Mera, N. S. (*with* Elliott, Lionel; Ingham, Derek B.) A multi-population genetic algorithm approach for solving ill-posed problems. (English summary) **2005g:65096**
Nair, M. Thamban (*with* Lal, Shine) Finite dimensional realization of mollifier method: A new stable approach. (English summary) **2005j:65060**
— (*with* Tautenhahn, Ulrich) Lavrentiev regularization for linear ill-posed problems under general source conditions. (English summary) **2005f:65078**
Ramlau, Ronny (*with* Teschke, Gerd) Regularization of Sobolev embedding operators and applications. I. Fourier and wavelet based methods. (English summary) **2005e:65074**
— (*with* Teschke, Gerd) Regularization of Sobolev embedding operators and applications. II. Data driven regularization and applications. (English summary) **2005k:65103**
— *see also* **Hansen, Olaf et al., 2005e:65072**
Ramm, Alexander G. Dynamical systems method for ill-posed equations with monotone operators. (English summary) **2005k:65104**
Raus, Toomas *see* **Hämarik, Uno, 2005e:65071** *and* **(2005j:65003)**
Regińska, Teresa Regularization of discrete ill-posed problems. (English summary) **2005h:65092**
Reiß, Markus *see* **Cohen, Albert et al., 2005i:65087**
Serëzhnikova, T. I. *see* **Vasin, V. V., 2005f:65080**
Siltanen, Samuli *see* **Ikehata, Masaru, 2005j:65059**
Tanana, V. P. On the convergence of regularized solutions of nonlinear operator equations. (Russian. Russian summary) **2005a:65056**
Tautenhahn, Ulrich On order optimal regularization under general source conditions. (English and Estonian summaries) **2005f:65079**
— Lavrentiev regularization of nonlinear ill-posed problems. (English summary) **2005m:65121**
— *see also* **Hämarik, Uno, 2005e:65070** *and* **Nair, M. Thamban, 2005f:65078**
Teschke, Gerd *see* **Ramlau, Ronny, 2005e:65074** *and* **2005k:65103**
Vasin, V. V. Regularization and iterative approximation for linear ill-posed problems in the space of functions of bounded variation. (English summary) **2005b:65068**
— Regularization and iterative approximation for linear ill-posed problems in the space of functions of bounded variation. (English summary) **2005d:65093**
— (*with* Serëzhnikova, T. I.) A two-stage method for the approximation of nonsmooth solutions, and the restoration of a noisy image. (Russian. Russian summary) **2005f:65080**
Wang, Yan-fei A restarted conjugate gradient method for ill-posed problems. (English summary) **2005e:65075**
Wei, Yi Min *see* **Chen, Guo Liang**[1] **et al., 2005e:65069**
Wen, Xian Yun *see* **Marin, Liviu et al., 2005g:65095**
Xue, Yifeng *see* **Chen, Guo Liang**[1] **et al., 2005e:65069**
Yagola, A. G. *see* **Dorofeev, K. Yu., 2005i:65088**
Yang, Hong Qi (*with* Hou, Zong Yi) Two-parameter regularization method for nonlinear ill-posed operator equations. (Chinese. English and Chinese summaries) **2005k:65105**

Items with secondary classifications in 65J20

Alber, Ya. I. (*with* Nashed, M. Zuhair) Iterative-projection regularization of ill-posed variational inequalities. (English summary) **2005b:49014**
Ali, Mohamed *see* **Konnov, Igor V. et al., 2005k:49025**
Ames, Karen A. (*with* Hughes, Rhonda J.) Structural stability for ill-posed problems in Banach space. (English summary) **2005m:34127**
Antipin, A. S. (*with* Vasil′ev, F. P.) A regularized prediction method for solving variational inequalities with an inexactly specified set. (Russian. Russian summary) **2005i:65090**
Bertero, M. (*with* Boccacci, P.; Robberto, M.) Inversion of second-difference operators with application to infrared astronomy. (English summary) **2005d:39096**
Bessila, K. *see* **Denche, M., 2005i:34071**
Boccacci, P. *see* **Bertero, M. et al., 2005d:39096**
Bubnova, O. Yu. (*with* Ryazantseva, I. P.) A continuous second-order regularization method for monotone equations in a Banach space. (Russian. Russian summary) **2005g:47126**
Chan, Tony F. C. *see* **Tai, Xue-Cheng, 2005a:49079**
Chizh, E. A. *see* **Pavlenko, V. N., 2005d:47109**
Đặng Đình Áng (*with* Dang Duc Trong; Yamamoto, Masahiro) A Cauchy like problem in plane elasticity: regularization by quasi-reversibility with error estimates. (English summary) **2005b:35273**
Dang Duc Trong *see* **Đặng Đình Áng et al., 2005b:35273**
Daubechies, Ingrid (*with* Defrise, Michel; De Mol, Christine) An iterative thresholding algorithm for linear inverse problems with a sparsity constraint. (English summary) **2005k:65106**
Defrise, Michel *see* **Daubechies, Ingrid et al., 2005k:65106**
De Mol, Christine *see* **Daubechies, Ingrid et al., 2005k:65106**
Denche, M. (*with* Bessila, K.) A modified quasi-boundary value method for ill-posed problems. (English summary) **2005i:34071**
Engl, Heinz W. Identification of parameters in polymer crystallization, semiconductor models and elasticity via iterative regularization methods. **2005b:35289**
George, Santhosh (*with* Nair, M. Thamban) Optimal order yielding discrepancy principle for simplified regularization in Hilbert scales: finite-dimensional realizations. (English summary) **2005f:47029**
He, Bing-sheng *see* **Yang, Zhen-hua, 2005j:90085**
Hughes, Rhonda J. *see* **Ames, Karen A., 2005m:34127**
Ito, Kazufumi *see* **Kojima, Fumio, 2005m:65246**
Khromova, G. V. On the Tikhonov regularization in spaces of differentiable functions. (Russian. Russian summary) **2005b:47025**
Kojima, Fumio (*with* Ito, Kazufumi) Inverse analysis of magnetic charge densities using discrete Fourier transform with Tikhonov regularization. (English summary) **2005m:65246**
Kokurin, M. Yu. Continuous methods for the stable approximation of solutions of nonlinear equations in a Hilbert space, based on the regularized Gauss-Newton scheme. (Russian. Russian summary) **2005b:65066**

Konnov, Igor V. (*with* Mazurkevich, E. O.; Ali, Mohamed) On a regularization method for variational inequalities with P_0 mappings. (English summary) **2005k:49025**
Lal, Shine *see* **Nair, M. Thamban, 2005m:65116**
Liu, Zhen Hai Browder-Tikhonov regularization of non-coercive evolution hemivariational inequalities. (English summary) **2005m:49059**
Maksimov, Vyacheslav I. The principle of extremal shift in a problem of solving operator equations. (English summary) **2005e:47026**
Mazurkevich, E. O. *see* **Konnov, Igor V. et al., 2005k:49025**
Moudafi, Abdellatif A remark on the convergence of the Tikhonov regularization without monotonicity. (English summary) **2005a:49033**
Nair, M. Thamban (*with* Lal, Shine) A finite dimensional realization of the mollifier method for compact operator equations. (English summary) **2005m:65116**
— *see also* **George, Santhosh, 2005f:47029**
Nashed, M. Zuhair *see* **Alber, Ya. I., 2005b:49014**
Nguyễn Bư'ò'ng Discrepancy principle and convergence rates in regularization for monotone ill-posed problems. (English and Ukrainian summaries) **2005b:47149**
— On nonlinear ill-posed accretive equations. (English summary) **2005g:47127**
— Convergence rates in regularization for nonlinear ill-posed equations under accretive perturbations. (English summary) **2005a:47125**
Nomirovskiĭ, D. A. On the generalized solvability of linear systems. (Russian. English summary) **2005m:47025**
Pavlenko, V. N. (*with* Chizh, E. A.) Regularization for equations with discontinuous noncoercive operators. (Russian. Russian summary) **2005d:47109**
Potapov, M. M. On estimates for the accuracy of regularization methods in quadratic minimization problems on a half-plane. (Russian. Russian summary) **2005b:90085**
Ramm, Alexander G. Corrigendum to: "Dynamical systems method for solving operator equations" [Commun. Nonlinear Sci. Numer. Simul. **9** (2004), no. 4, 383–402; MR2045643 (2004m:47161)]. **2005b:47153**
— Discrepancy principle for the dynamical systems method. (English summary) **2005e:47027**
— Corrigendum to: "Discrepancy principle for the dynamical systems method" [Commun. Nonlinear Sci. Numer. Simul. **10** (2005), no. 1, 95–101; MR2090273 (2005e:47027)].
Robberto, M. *see* **Bertero, M. et al., 2005d:39096**
Ryazantseva, I. P. *see* **Bubnova, O. Yu., 2005g:47126**
Solodkiĭ, S. G. The optimal approximations for stationary iterated Tikhonov method. (English summary) **2005d:47025**
Tai, Xue-Cheng (*with* Chan, Tony F. C.) A survey on multiple level set methods with applications for identifying piecewise constant functions. (English summary) **2005a:49079**
Vasil'ev, F. P. *see* **Antipin, A. S., 2005i:65090**
Yamamoto, Masahiro *see* **Đặng Đình Áng et al., 2005b:35273**
Yang, Zhen-hua (*with* He, Bing-sheng) A relaxed approximate proximal point algorithm. (English summary) **2005j:90085**

65J22 Inverse problems

Abubakar, Aria (*with* Habashy, Tarek M.; van den Berg, Peter M.; Gisolf, Dries) The diagonalized contrast source approach: an inversion method beyond the Born approximation. (English summary) **2005m:65122**
van den Berg, Peter M. *see* **Abubakar, Aria et al., 2005m:65122**
Bissantz, Nicolai (*with* Hohage, Thorsten; Munk, Axel) Consistency and rates of convergence of nonlinear Tikhonov regularization with random noise. (English summary) **2005i:65089**
Daubechies, Ingrid (*with* Defrise, Michel; De Mol, Christine) An iterative thresholding algorithm for linear inverse problems with a sparsity constraint. (English summary) **2005k:65106**
Defrise, Michel *see* **Daubechies, Ingrid et al., 2005k:65106**
De Mol, Christine *see* **Daubechies, Ingrid et al., 2005k:65106**
Gamio, Carlos *see* **Hinestroza, Doris, 2005j:65061**
Gisolf, Dries *see* **Abubakar, Aria et al., 2005m:65122**
Habashy, Tarek M. *see* **Abubakar, Aria et al., 2005m:65122**
Hinestroza, Doris (*with* Gamio, Carlos) Regularization techniques for nonlinear problems applied to electrical capacitance tomographic. (English summary) **2005j:65061**
Hohage, Thorsten *see* **Bissantz, Nicolai et al., 2005i:65089**
Johansson, Tomas An iterative procedure for solving a Cauchy problem for second order elliptic equations. (English summary) **2005g:65097**
Klibanov, Michael V. (*with* Timonov, A. A.) ★ Carleman estimates for coefficient inverse problems and numerical applications. **2005k:65107**
Klyuchev, V. V. *see* **Kokurin, M. Yu.**
Kokurin, M. Yu. (*with* Klyuchev, V. V.) Logarithmic estimates for the rate of convergence of methods for solving the inverse Cauchy problem in a Banach space. (Russian)
Mukhina, I. Descriptive regularizing algorithm for the solution of inverse problems. (English summary) (*see* **2005i:65006**)
Munk, Axel *see* **Bissantz, Nicolai et al., 2005i:65089**
Tanana, V. P. On the order-optimality of the projection regularization method in solving inverse problems. (Russian. Russian summary) **2005m:65123**
Timonov, A. A. *see* **Klibanov, Michael V., 2005k:65107**
Wang, Zewen *see* **Xu, Dinghua,** (**2005d:35008**)
Xu, Dinghua (*with* Wang, Zewen) Stabilized solution and numerical simulation for a two-dimensional Hausdorff moment problem. (English summary) (*see* **2005d:35008**)

Items with secondary classifications in 65J22

Agoshkov, V. I. (*with* Minuk, F. P.; Rusakov, A. S.; Zalesnyĭ, V. B.) Study and solution of identification problems for nonstationary 2D and 3D convection-diffusion equations. (English summary) **2005m:65199**
Bakushinskiĭ, A. B. (*with* Kokurin, M. Yu.; Kozlov, A. I.) On stable iterative methods of gradient type for the inverse medium scattering problem. (English summary) **2005m:65119**
Bell, Bradley M. (*with* Pillonetto, Gianluigi) Estimating parameters and stochastic functions of one variable using nonlinear measurement models. (English summary) **2005b:62052**
Bulychev, Yu. G. *see* **Bulycheva, E. Yu. et al., 2005g:93034**
Bulycheva, E. Yu. (*with* Bulychev, Yu. G.; Burlaĭ, I. V.) A decomposition approach to the solution of ill-conditioned problems of parametric identification. (Russian. Russian summary) **2005g:93034**
Burlaĭ, I. V. *see* **Bulycheva, E. Yu. et al., 2005g:93034**
Engl, Heinz W. Identification of parameters in polymer crystallization, semiconductor models and elasticity via iterative regularization methods. **2005b:35289**
— (*with* Kügler, Philipp) Parameter identification in industrial problems via iterative regularization methods. (*see* **2005a:00022**)
de Franco, Roberto *see* **Tondi, Rosaria, 2005m:86020**
Gusev, M. I. On stability of information domains in guaranteed estimation problem. (English summary) **2005c:93031**
Hazra, Subhendu Bikash (*with* Schulz, Volker) On efficient computation of the optimization problem arising in the inverse modeling of non-stationary multiphase multicomponent flow through porous media. **2005m:49064**
Kaipio, Jari P. (*with* Somersalo, Erkki) ★ Statistical and computational inverse problems. **2005g:65001**
Kokurin, M. Yu. *see* **Bakushinskiĭ, A. B. et al., 2005m:65119**
Kozlov, A. I. *see* **Bakushinskiĭ, A. B. et al., 2005m:65119**
Kügler, Philipp *see* **Engl, Heinz W.,** (**2005a:00022**)
Maksimov, Vyacheslav I. ★ Dynamical inverse problems of distributed systems. **2005j:93002**
Minuk, F. P. *see* **Agoshkov, V. I. et al., 2005m:65199**
Nicaise, Serge (*with* Zaïr, Ouahiba) Identifiability, stability and reconstruction results of sources by interior measurements. (English summary) **2005b:35300**
Pelekanos, George (*with* Sevroglou, Vassilios) The $(F^*F)^{1/4}$-method for the transmission problem in two-dimensional linear elasticity. (English summary) **2005i:74045**
Pillonetto, Gianluigi *see* **Bell, Bradley M., 2005b:62052**
Rusakov, A. S. *see* **Agoshkov, V. I. et al., 2005m:65199**
Schulz, Volker *see* **Hazra, Subhendu Bikash, 2005m:49064**
Sevroglou, Vassilios *see* **Pelekanos, George, 2005i:74045**
Somersalo, Erkki *see* **Kaipio, Jari P., 2005g:65001**
Tondi, Rosaria (*with* de Franco, Roberto) Seismic travel time inversion for 3D structures regularized with Sobolev norms. (English summary) **2005m:86020**
Zaïr, Ouahiba *see* **Nicaise, Serge, 2005b:35300**
Zalesnyĭ, V. B. *see* **Agoshkov, V. I. et al., 2005m:65199**

65J99 None of the above, but in this section

Chahma, Ilyes Aïssa Set-valued discrete approximation of state-constrained differential inclusions. **2005h:65093**
Giles, Michael B. *see* **Pierce, Niles A., 2005e:65076**
Pierce, Niles A. (*with* Giles, Michael B.) Adjoint and defect error bounding and correction for functional estimates. (English summary) **2005e:65076**

Items with secondary classifications in 65J99

Bede, Barnabás (*with* Di Nola, Antonio) Elementary calculus in Riesz MV-algebras. (English summary) **2005b:68272**
Davies, E. Brian (*with* Plum, Michael) Spectral pollution. (English summary) **2005c:47027b**
Desbrun, Mathieu (*with* Leok, Melvin; Marsden, Jerrold E.) Discrete Poincaré lemma. (English summary) **2005j:55024**
Di Nola, Antonio *see* **Bede, Barnabás, 2005b:68272**
Fišer, Jiří Numerical aspects of multivalued fractals. (English summary) **2005h:28017**
Kadchenko, S. I. A new method for computing series of corrections in the theory of perturbations of discrete operators. (Russian. Russian summary) **2005h:47028**
Leok, Melvin *see* **Desbrun, Mathieu et al., 2005j:55024**
Levitin, M. R. (*with* Shargorodskiĭ, E. M.) Spectral pollution and second-order relative spectra for self-adjoint operators. (English summary) **2005c:47027a**
Marsden, Jerrold E. *see* **Desbrun, Mathieu et al., 2005j:55024**
Plum, Michael *see* **Davies, E. Brian, 2005c:47027b**
Shargorodskiĭ, E. M. *see* **Levitin, M. R., 2005c:47027a**

65Kxx Mathematical programming, optimization and variational techniques

Items with secondary classifications in 65Kxx

Izmailov, Alekseĭ Feridovich (*with* Solodov, Mikhail) ★ Численные методы оптимизации. (Russian. English and Russian summaries) [Numerical optimizatiom methods] **2005f:90003**
Solodov, Mikhail *see* **Izmailov, Alekseĭ Feridovich, 2005f:90003**

65K05 Mathematical programming algorithms {For theory see 90Cxx.}

Crombez, Gilbert Non-monotoneous parallel iteration for solving convex feasibility problems. (English summary) **2005k:65108**
Dostál, Zdeněk (*with* Friedlander, A.; Santos, S. A.) Augmented Lagrangians with adaptive precision control for quadratic programming with simple bounds and equality constraints. (English summary) **2005a:65057**
Filatov, A. Yu. *see* **Zorkal'tsev, V. I., 2005k:65109**
Friedlander, A. *see* **Dostál, Zdeněk et al., 2005a:65057**
Liu, Hongwei² (*with* Wang, Xinhui; Liu, San Yang) Feasible direction algorithm for solving the SDP relaxations of quadratic $\{-1, 1\}$ programming problems. (English summary) **2005a:65058**
Liu, San Yang *see* **Liu, Hongwei² et al., 2005a:65058**
Santos, S. A. *see* **Dostál, Zdeněk et al., 2005a:65057**

Wang, Xinhui *see* **Liu, Hongwei[2] et al., 2005a:65058**
Zorkal'tsev, V. I. (*with* Filatov, A. Yu.) New versions of dual interior-point algorithms for systems of linear inequalities. (Russian. Russian summary) **2005k:65109**

Items with secondary classifications in 65K05

Ai, Wen-bao An optimal method for adjusting the centering parameter in the wide-neighborhood primal-dual interior-point algorithm for linear programming. (English summary) **2005b:90067**
— *see also* **Fan, Jin-yan et al., 2005f:90115**
Al-Shemas, Eman (*with* Billups, Stephen C.) An iterative method for generalized set-valued nonlinear mixed quasi-variational inequalities. (English summary) **2005f:49012**
Arora, Sanjeev (*with* Chang, Kevin L.) Approximation schemes for degree-restricted MST and red-blue separation problems. (English summary) **2005d:68148**
Astaf'ev, N. N. Dual regularization, marginal (repeated) values of the linear programming problem. (Russian. Russian summary) **2005f:90062**
Audet, Charles (*with* Dennis, John E., Jr.) A pattern search filter method for nonlinear programming without derivatives. (English summary) **2005j:90109**
Barton, Paul I. *see* **Bhattacharjee, Binita et al., 2005i:90083**
Beck, Amir (*with* Teboulle, Marc) A conditional gradient method with linear rate of convergence for solving convex linear systems. (English summary) **2005b:90092**
Belkeziz, K. (*with* Metrane, A.) Optimisation d'une fonction linéaire sur l'ensemble des solutions efficaces d'un problème multicritère quadratique convexe. (French summary) [Optimization of a linear function on the set of efficient solutions of a multicriterion convex quadratic problem] **2005f:90102**
Bereznev, V. A. On the polynomial complexity of a modified simplex method. (Russian. Russian summary) **2005j:90042**
Bhattacharjee, Binita (*with* Green, William H., Jr.; Barton, Paul I.) Interval methods for semi-infinite programs. (English summary) **2005i:90083**
Billups, Stephen C. *see* **Al-Shemas, Eman, 2005f:49012**
Brigadnov, Igor A. Duality method for limit analysis of dielectrics in powerful electric fields. (English summary)
Budak, B. A. A first-order continuous linearization method with a variable metric for solving equilibrium programming problems. (Russian. Russian summary) **2005k:90168**
Byatt, D. (*with* Coope, Ian D.; Price, Christopher J.) Conjugate grids for unconstrained optimisation. (English summary) **2005e:90118**
Campêlo, Manoel *see* **de Sabóia, Carlos Henrique Medeiros et al., 2005g:90108**
Cardia, Marli *see* **Gonzaga, Clóvis C., 2005c:90044**
Castañeda R., Cuauhtémoc H. *see* **Santiago-Alvarado, A. et al., 2005g:90080**
Chakib, A. (*with* Nachaoui, Abdeljalil) Nonlinear programming approach for a transient free boundary flow problem. (English summary) **2005g:76114**
Chang, Kevin L. *see* **Arora, Sanjeev, 2005d:68148**
Chen, Jian *see* **Zhang, Ju-Liang et al., 2005d:90122** *and* **2005e:90145**
Chen, Zhong Wen (*with* Zhang, Xiang Sun) A nonmonotone trust-region algorithm with nonmonotone penalty parameters for constrained optimization. (English summary) **2005f:90161**
Chernyaev, Yu. A. *see* **Zabotin, V. I., 2005c:90091**
Cheung, Dennis (*with* Cucker, Felipe; Ye, Yinyu) Linear programming and condition numbers under the real number computation model. **2005f:90063**
Connelly, Robert *see* **Donev, Aleksandar Nikola et al., 2005a:74011**
Coope, Ian D. *see* **Price, Christopher J., 2005b:90134** *and* **Byatt, D. et al., 2005e:90118**
Cucker, Felipe (*with* Wschebor, Mario) On the expected condition number of linear programming problems. (English summary) **2005m:90172**
— *see also* **Cheung, Dennis et al., 2005f:90063**
Dai, Yu-Hong (*with* Fletcher, Roger) Projected Barzilai-Borwein methods for large-scale box-constrained quadratic programming. (English summary) **2005m:90076**
Danielson, Mats *see* **Ding, Xiaosong et al.**
Dar'ina, A. N. (*with* Izmailov, Alekseĭ Feridovich; Solodov, Mikhail) A class of active-set Newton methods for mixed complementarity problems. (English summary) **2005m:90115**
Da Silva E Silva, Paulo José *see* **Humes, Carlos, Jr. et al., 2005b:90096**
Deng, Naiyang *see* **Zhang, Jian Zhong et al., (2004j:90009)**
Dennis, John E., Jr. *see* **Audet, Charles, 2005j:90109**
Dikin, I. I. Solution of systems of equalities and inequalities by the interior point method. (Russian. English and Ukrainian summaries) **2005m:90158**
Ding, Xiaosong (*with* Ekenberg, Love; Danielson, Mats) A fast bilinear optimization algorithm. (English summary)
Diniz-Ehrhardt, M. A. (*with* Gomes-Ruggiero, M. A.; Martínez, José Mario; Santos, S. A.) Augmented Lagrangian algorithms based on the spectral projected gradient method for solving nonlinear programming problems. (English summary) **2005g:90137**
Donev, Aleksandar Nikola (*with* Torquato, Salvatore; Stillinger, Frank H.; Connelly, Robert) A linear programming algorithm to test for jamming in hard-sphere packings. (English summary) **2005a:74011**
Dostál, Zdeněk A proportioning based algorithm with rate of convergence for bound constrained quadratic programming. (English summary) **2005c:90060**
Ekel, P. Ya. *see* **Galperin, Efim A. et al., 2005f:90117**
Ekenberg, Love *see* **Ding, Xiaosong et al.**
van Emden, M. H. (*with* Moa, B.) Termination criteria in the Moore-Skelboe algorithm for global optimization by interval arithmetic. (English summary) **2005c:90070**
Eremin, I. I. (*with* Patsko, S. V.) Fejér processes for infinite systems of convex inequalities. (English summary) **2005a:90122**
Fan, Jin-yan (*with* Ai, Wen-bao; Zhang, Qun-ying) A line search and trust region algorithm with trust region radius converging to zero. (English summary) **2005f:90115**
Fletcher, Roger (*with* Leyffer, Sven) Filter-type algorithms for solving systems of algebraic equations and inequalities. (English summary) **2005c:90077**
— (*with* Leyffer, Sven) Solving mathematical programs with complementarity constraints as nonlinear programs. (English summary) **2005a:90149**
— *see also* **Dai, Yu-Hong, 2005m:90076**
Frauendorfer, Karl (*with* Haarbrücker, Gido) Numerical techniques in applied multistage stochastic programming. (English summary) **2005e:90079**
Fuduli, Antonio (*with* Gaudioso, M.; Giallombardo, G.) Minimizing nonconvex nonsmooth functions via cutting planes and proximity control. (English summary) **2005f:90088**
— (*with* Gaudioso, M.; Giallombardo, G.) A DC piecewise affine model and a bundling technique in nonconvex nonsmooth minimization. (English summary) **2005e:90093**
Galperin, Efim A. (*with* Ekel, P. Ya.; Pereira, J. G., Jr.) Cubic algorithm for global optimization with box and equality constraints and application to optimal allocation of resources. (English summary) **2005f:90117**
Gao, Gui Ying (*with* Zhang, Li Wei) Application of the parallelization technique to a dual method for a constrained convex programming problem. (Chinese. English and Chinese summaries)
Gaudioso, M. *see* **Fuduli, Antonio et al., 2005e:90093** *and* **2005f:90088**
Giallombardo, G. *see* **Fuduli, Antonio et al., 2005e:90093** *and* **2005f:90088**
Gill, Philip E. (*with* Murray, Walter; Saunders, Michael A.) SNOPT: an SQP algorithm for large-scale constrained optimization. (English summary) **2005m:90164**
Goemans, Michel X. (*with* Williamson, David P.) Approximation algorithms for MAX-3-CUT and other problems via complex semidefinite programming. (English summary) **2005d:68152**
Goldfarb, D. (*with* Scheinberg, K.) A product-form Cholesky factorization method for handling dense columns in interior point methods for linear programming. (English summary) **2005b:90157**
Gomes-Ruggiero, M. A. *see* **Diniz-Ehrhardt, M. A. et al., 2005g:90137**
Gómez Suárez, M. A. A null-space method for computing the search direction in the general inertia-controlling method for dense quadratic programming. (English summary) **2005j:90055**
Gonzaga, Clóvis C. (*with* Karas, Elizabeth; Vanti, Márcia) A globally convergent filter method for nonlinear programming. (English summary) **2005d:49049**
— (*with* Cardia, Marli) Properties of the central points in linear programming problems. (English summary) **2005c:90044**
Govindan, Srihari (*with* Wilson, Robert B.) Computing Nash equilibria by iterated polymatrix approximation. (English summary) **2005c:91009**
Green, William H., Jr. *see* **Bhattacharjee, Binita et al., 2005i:90083**
Grossmann, Christian (*with* Zadlo, M.) A general class of penalty/barrier path-following Newton methods for nonlinear programming. (English summary) **2005m:90162**
Gröwe-Kuska, Nicole (*with* Kiwiel, Krzysztof C.; Nowak, Matthias P.; Römisch, Werner; Wegner, Isabel) Power management in a hydro-thermal system under uncertainty by Lagrangian relaxation. (English summary) **2005c:90058**
Grüne, Lars (*with* Semmler, Willi) Using dynamic programming with adaptive grid scheme for optimal control problems in economics. (English summary) **2005e:49055**
Guerriero, Francesca (*with* Mancini, Marco) Parallelization strategies for rollout algorithms. (English summary)
Haarala, M. (*with* Miettinen, Kaisa; Mäkelä, M. M.) New limited memory bundle method for large-scale nonsmooth optimization. (English summary) **2005f:90165**
Haarbrücker, Gido *see* **Frauendorfer, Karl, 2005e:90079**
Haber, Eldad (*with* Modersitzki, Jan) Numerical methods for volume preserving image registration. (English summary) **2005h:65029**
Haberman, Steven (*with* Sung, Joo-Ho) Optimal pension funding dynamics over infinite control horizon when stochastic rates of return are stationary. (English summary) **2005k:91184**
Hager, William W. (*with* Park, Soonchul) The gradient projection method with exact line search. (English summary) **2005j:90103**
Han, Ji Ye *see* **Huang, Zheng Hai et al., 2005f:90134**
Han, Shih-Ping *see* **Lin, Anhua, 2005k:90096**
He, Su Xiang (*with* Zhang, Li Wei; Li, Xing Si) A potential function for solving inequality constrained optimization problems. (Chinese. English and Chinese summaries) **2005f:90119**
Hintermüller, Michael (*with* Ring, Wolfgang) A second order shape optimization approach for image segmentation. (English summary) **2005b:68276**
Hu, Xinmin (*with* Ralph, Daniel) Convergence of a penalty method for mathematical programming with complementarity constraints. (English summary) **2005f:90120**
— On the convergence of general regularization and smoothing schemes for mathematical programs with complementarity constraints. (English summary) **2005a:90161**
(Huang, Zhen Yu[1]) *see* **Kearfott, Ralph Baker**
Huang, Zheng Hai (*with* Zhang, Li Ping[1]; Han, Ji Ye) A hybrid smoothing-nonsmooth Newton-type algorithm yielding an exact solution of the P_0-LCP. (English summary) **2005f:90134**
Humes, Carlos, Jr. (*with* Da Silva E Silva, Paulo José; Svaiter, Benar F.) Some inexact hybrid proximal augmented Lagrangian algorithms. (English summary) **2005b:90096**
Hwang, Kao-Shing *see* **Lin, Yung-Chien et al., 2005c:90054**
Ito, Satoshi (*with* Liu, Yan Qun; Teo, Kok Lay) An approximation approach to non-strictly convex quadratic semi-infinite programming. (English summary) **2005i:90084**
Izmailov, Alekseĭ Feridovich *see* **Dar'ina, A. N. et al., 2005m:90115**
Jansson, Christian Rigorous lower and upper bounds in linear programming. (English summary) **2005e:90061**
Jian, Jin Bao A fast convergent algorithm of sequential systems of linear equations for inequality constrained optimization without strict complementarity. (Chinese. English and Chinese summaries) **2005e:90120**
— (*with* Tang, Chun-Ming[2]) An SQP feasible descent algorithm for nonlinear inequality constrained optimization without strict complementarity. (English summary) **2005i:90102**
Kanzow, Christian (*with* Nagel, Christian) Corrigendum: "Semidefinite programs: new search directions, smoothing-type methods, and numerical results" [SIAM J. Optim. **13** (2002), no. 1, 1–23; MR1922431 (2003f:90053)]. (English summary) **2005e:90087**
— (*with* Petra, Stefania) On a semismooth least squares formulation of complementarity problems with gap reduction. (English summary) **2005e:90140**
Kaplan, A. A. (*with* Tichatschke, R.) Extended auxiliary problem principle to variational inequalities involving multi-valued operators. (English summary) **2005b:49023**
Karas, Elizabeth *see* **Gonzaga, Clóvis C. et al., 2005d:49049**
Kearfott, Ralph Baker Errata and opinion to: "An interval entropy penalty method for nonlinear global optimization" [Reliab. Comput. **4** (1998), no. 1, 15–25; MR1617525 (99a:90189)] by Z. Huang.

— *see also* **Muñoz, Humberto**, 2005f:49047
Kiwiel, Krzysztof C. Convergence of approximate and incremental subgradient methods for convex optimization. (English summary) **2005e:90090**
— *see also* **Gröwe-Kuska, Nicole et al.**, 2005c:90058
Kočvara, Michal (*with* Outrata, Jiří V.) Optimization problems with equilibrium constraints and their numerical solution. (English summary) **2005c:90098**
Kohayakawa, Yoshiharu (*with* Miyazawa, Flavio Keidi; Raghavan, Prabhakar; Wakabayashi, Yoshiko) Multidimensional cube packing. (English summary) **2005c:90074**
Kolda, Tamara G. (*with* Torczon, Virginia J.) On the convergence of asynchronous parallel pattern search. (English summary) **2005i:90068**
Krnić, I. (*with* Obradović, O.; Potapov, M. M.) On the accuracy of regularized solutions to quadratic minimization problems on a half-space, in case of a normally solvable operator. (English summary) **2005a:90183**
Kruk, Serge G. (*with* Wolkowicz, Henry) Convergence of a short-step primal-dual algorithm based on the Gauss-Newton direction. (English summary) **2005a:90193**
Landi, Germana A feasible-direction method for nonlinear constrained optimization. (English and Italian summaries) **2005b:90130**
Leyffer, Sven *see* **Fletcher, Roger**, **2005a:90149** *and* **2005c:90077**
Li, Xing Si (*with* Zhang, Pei Ai) An entropic smoothing method for solving convex inequality problems. (Chinese. English summary) **2005k:90107**
— *see also* **He, Su Xiang et al.**, 2005f:90119
Lian, Zhigang *see* **Wei, Zeng-xin et al.**, 2005j:90107
Lin, Anhua (*with* Han, Shih-Ping) A class of methods for projection on the intersection of several ellipsoids. (English summary) **2005k:90096**
Lin, Yung-Chien (*with* Hwang, Kao-Shing; Wang, Feng-Sheng) A mixed-coding scheme of evolutionary algorithms to solve mixed-integer nonlinear programming problems. (English summary) **2005c:90054**
Lin, Zheng Hua *see* **Zhu, Dao Li et al.**, **2005b:90103** *and* **Xu, Qing**
Liu, Cheng Cheng *see* **Wu, Qing[2] et al.**
Liu, San Yang *see* **Wu, Qing[2] et al.** *and* **Yong, Long Quan**
Liu, Yan Qun *see* **Ito, Satoshi et al.**, 2005i:90084
Lu, Zhaosong (*with* Monteiro, Renato D. C.) Error bounds and limiting behavior of weighted paths associated with the SDP map $X^{1/2}SX^{1/2}$. (English summary) **2005m:90079**
Lukšan, Ladislav (*with* Matonoha, Ctirad; Vlček, Jan) Interior-point method for non-linear non-convex optimization. (English summary) **2005b:90158**
Mäkelä, M. M. *see* **Haarala, M. et al.**, 2005f:90165
Mancini, Marco *see* **Guerriero, Francesca**
Martínez, H. J. *see* **Yabe, Hiroshi et al.**, 2005h:90170
Martínez, José Mario *see* **Diniz-Ehrhardt, M. A. et al.**, 2005g:90137
Matonoha, Ctirad *see* **Lukšan, Ladislav et al.**, 2005b:90158
Metrane, A. *see* **Belkeziz, K.**, 2005f:90102
Miettinen, Kaisa *see* **Haarala, M. et al.**, 2005f:90165
Miyazawa, Flavio Keidi *see* **Kohayakawa, Yoshiharu et al.**, 2005c:90074
Moa, B. *see* **van Emden, M. H.**, 2005c:90070
Modersitzki, Jan *see* **Haber, Eldad**, 2005h:65029
Monteiro, Renato D. C. *see* **Lu, Zhaosong**, 2005m:90079
Muñoz, Humberto (*with* Kearfott, Ralph Baker) Slope intervals, generalized gradients, semigradients, slant derivatives, and csets. (English summary) **2005f:49047**
Murray, Walter *see* **Gill, Philip E. et al.**, 2005m:90164
Nachaoui, Abdeljalil *see* **Chakib, A.**, 2005g:76114
Nagel, Christian *see* **Kanzow, Christian**, 2005e:90087
Nie, Pu Yan A three-dimension null-space approach for mathematical programs with equilibrium constraints. (English summary) **2005b:90162**
— A null space method for solving system of equations. (English summary) **2005b:90163**
Nivón-Santiago, R. *see* **Santiago-Alvarado, A. et al.**, 2005g:90080
Nowak, Matthias P. *see* **Gröwe-Kuska, Nicole et al.**, 2005c:90058
Obradović, O. *see* **Krnić, I. et al.**, 2005a:90183
Outrata, Jiří V. *see* **Kočvara, Michal**, 2005c:90098
Park, Soonchul *see* **Hager, William W.**, 2005j:90103
Patsko, S. V. *see* **Eremin, I. I.**, 2005a:90122
Peña, Javier F. Conic systems and sublinear mappings: equivalent approaches. (English summary) **2005g:15004**
Pereira, J. G., Jr. *see* **Galperin, Efim A. et al.**, 2005f:90117
Petra, Stefania *see* **Kanzow, Christian**, 2005e:90140
Pop, Nicolae (*with* Zelina, Ioana) A quadratic programming method for saddle point formulations in contact problems with friction. (English summary)
Popescu, Elena (*with* Ştefănescu, Mirela) A QR-factorization method for least-squares problems of linear inequalities with constraints. (English summary) **2005c:90062**
Potapov, M. M. *see* **Krnić, I. et al.**, **2005a:90183**
Price, Christopher J. (*with* Coope, Ian D.) Frames and grids in unconstrained and linearly constrained optimization: a nonsmooth approach. (English summary) **2005b:90134**
— *see also* **Byatt, D. et al.**, 2005e:90118
Qi, Liqun (*with* Wan, Zhong; Yang, Yu-Fei) Global minimization of normal quartic polynomials based on global descent directions. (English summary) **2005j:90080**
— *see also* **Sun, Jie et al.**, 2005g:90098
Raghavan, Prabhakar *see* **Kohayakawa, Yoshiharu et al.**, 2005c:90074
Ralph, Daniel (*with* Wright, Stephen Joseph) Some properties of regularization and penalization schemes for MPECs. (English summary) **2005g:90140**
— *see also* **Hu, Xinmin**, 2005f:90120
Rawlings, James B. *see* **Tenny, Matthew J. et al.**, **2005a:90206**
Ring, Wolfgang *see* **Hintermüller, Michael**, 2005b:68276
Römisch, Werner *see* **Gröwe-Kuska, Nicole et al.**, 2005c:90058
Rust, John *see* **Santos, Manuel S.**, 2005d:90136
de Sabóia, Carlos Henrique Medeiros (*with* Campêlo, Manoel; Scheimberg, Susana) A computational study of global algorithms for linear bilevel programming. (English summary) **2005g:90108**
Saito, Seiji On solving equations arising from optimization problems by some generalized Newton method. (English summary) **2005a:49060**
Santiago-Alvarado, A. (*with* Vázquez-Montiel, S.; Nivón-Santiago, R.; Castañeda R., Cuauhtémoc H.) Using linear programming to determine the geometric parameters of convex conical surfaces. (Spanish. English and Spanish summaries) **2005g:90080**
Santos, Manuel S. (*with* Rust, John) Convergence properties of policy iteration. (English summary) **2005d:90136**
Santos, S. A. *see* **Diniz-Ehrhardt, M. A. et al.**, 2005g:90137
Saunders, Michael A. *see* **Gill, Philip E. et al.**, 2005m:90164
Scheimberg, Susana *see* **de Sabóia, Carlos Henrique Medeiros et al.**, 2005g:90108
Scheinberg, K. *see* **Goldfarb, D.**, 2005b:90157
Schulz, Volker Simultaneous solution approaches for large optimization problems. (English summary) **2005a:90195**
Semmler, Willi *see* **Grüne, Lars**, 2005e:49055
Serafini, T. (*with* Zanghirati, G.; Zanni, L.) Large quadratic programs in training Gaussian support vector machines. (English summary) **2005c:90064**
Shen, Jie[4] *see* **Shi, Zhen Jun**, 2005f:90123
Shi, Zhen Jun (*with* Shen, Jie[4]) A gradient-related algorithm with inexact line searches. (English summary) **2005f:90123**
Solodov, Mikhail *see* **Dar'ina, A. N. et al.**, 2005m:90115
Ştefănescu, Mirela *see* **Popescu, Elena**, 2005c:90062
Stein, Oliver (*with* Still, Georg) Solving semi-infinite optimization problems with interior point techniques. (English summary) **2005e:90137**
Still, Georg *see* **Stein, Oliver**, 2005e:90137
Stillinger, Frank H. *see* **Donev, Aleksandar Nikola et al.**, 2005a:74011
Sun, Daning Existence and properties of optimal production and inventory policies. (English summary) **2005f:90014**
Sun, De Feng *see* **Sun, Jie et al.**, 2005g:90098
Sun, Jie (*with* Sun, De Feng; Qi, Liqun) A squared smoothing Newton method for nonsmooth matrix equations and its applications in semidefinite optimization problems. (English summary) **2005g:90098**
Sun, Qing Ying Three-term memory gradient Rosen projection method for nonlinear programming with linear or nonlinear inequality constraints. (Chinese. English and Chinese summaries) **2005j:90081**
Sung, Joo-Ho *see* **Haberman, Steven**, 2005k:91184
Svaiter, Benar F. *see* **Humes, Carlos, Jr. et al.**, 2005b:90096
Talman, A. J. J. (*with* Yamamoto, Yoshitsugu) Continuum of zero points of a mapping on a compact, convex set. (English summary) **2005h:54050**
Tang, Chun-Ming[2] *see* **Jian, Jin Bao**, 2005i:90102
Tapia, R. A. *see* **Villalobos, M. C. et al.**, 2005e:90159 *and* **Yabe, Hiroshi et al.**, 2005h:90170
Teboulle, Marc *see* **Beck, Amir**, 2005b:90092
Tenny, Matthew J. (*with* Wright, Stephen Joseph; Rawlings, James B.) Nonlinear model predictive control via feasibility-perturbed sequential quadratic programming. (English summary) **2005a:90206**
Teo, Kok Lay *see* **Ito, Satoshi et al.**, 2005i:90084
Tichatschke, R. *see* **Kaplan, A. A.**, 2005b:49023
Toh, Kim-Chuan Solving large scale semidefinite programs via an iterative solver on the augmented systems. (English summary) **2005c:90047**
Tong, Xiao Jiao (*with* Zhou, Shu Zi) A trust-region algorithm for nonlinear constrained optimization problem. (English and Chinese summaries) **2005k:93126**
Torczon, Virginia J. *see* **Kolda, Tamara G.**, 2005i:90068
Torquato, Salvatore *see* **Donev, Aleksandar Nikola et al.**, 2005a:74011
Truong, Van Anh (*with* Tunçel, Levent) Geometry of homogeneous convex cones, duality mapping, and optimal self-concordant barriers. (English summary) **2005a:90124**
Tsygankov, Aleksandr Aleksandrovich On the structure of a quadratic form in a mathematical programming problem. (Russian. Russian summary) **2005c:90090**
Tunçel, Levent *see* **Truong, Van Anh**, 2005a:90124
Vanti, Márcia *see* **Gonzaga, Clóvis C. et al.**, 2005d:49049
Vázquez-Montiel, S. *see* **Santiago-Alvarado, A. et al.**, 2005g:90080
Villalobos, M. C. (*with* Tapia, R. A.; Zhang, Yin[1]) Sphere of convergence of Newton's method on two equivalent systems from nonlinear programming. (English summary) **2005e:90159**
Vlček, Jan *see* **Lukšan, Ladislav et al.**, 2005b:90158
Wakabayashi, Yoshiko *see* **Kohayakawa, Yoshiharu et al.**, 2005c:90074
Wan, Zhong Global convergence of a modified SQP method for mathematical programs with inequalities and equalities constraints. (English summary) **2005e:90161**
— *see also* **Qi, Liqun et al.**, 2005j:90080
Wang, Chang Yu *see* **Yu, Zhen Sheng et al.**
Wang, Feng-Sheng *see* **Lin, Yung-Chien et al.**, 2005c:90054
Wang, Zhaozhi *see* **Zhang, Jian Zhong et al.**, (2004j:90009)
Wegner, Isabel *see* **Gröwe-Kuska, Nicole et al.**, 2005c:90058
Wei, Zeng-xin (*with* Yu, Gaohang; Yuan, Gonglin; Lian, Zhigang) The superlinear convergence of a modified BFGS-type method for unconstrained optimization. (English summary) **2005j:90107**
Williamson, David P. *see* **Goemans, Michel X.**, 2005d:68152
Wilson, Robert B. *see* **Govindan, Srihari**, 2005c:91009
Wolkowicz, Henry *see* **Kruk, Serge G.**, 2005a:90193
Wright, Stephen Joseph *see* **Tenny, Matthew J. et al.**, **2005a:90206** *and* **Ralph, Daniel**, **2005g:90140**
Wschebor, Mario *see* **Cucker, Felipe**, 2005m:90172
Wu, Qing[2] (*with* Liu, San Yang; Zhang, Le You; Liu, Cheng Cheng) A modified filled function method for global minimization of a nonsmooth programming problem. (Chinese. English and Chinese summaries)
Xu, Cheng Xian *see* **Xue, Hong-gang et al.**, 2005f:90170
Xu, Feng-min *see* **Xue, Hong-gang et al.**, 2005f:90170
Xu, Qing (*with* Lin, Zheng Hua) The combined homotopy convergence in unbounded set. (Chinese. English and Chinese summaries)
— *see also* **Zhu, Dao Li et al.**, 2005b:90103
Xue, Hong-gang (*with* Xu, Cheng Xian; Xu, Feng-min) A branch and bound algorithm for separable concave programming. (English summary) **2005f:90170**
— (*with* Xu, Cheng Xian) A branch and bound algorithm for solving a class of D-C programming. (English summary)

Yabe, Hiroshi (*with* Martínez, H. J.; Tapia, R. A.) On sizing and shifting the BFGS update within the sized-Broyden family of secant updates. (English summary) **2005h:90170**
Yamamoto, Yoshitsugu *see* **Talman, A. J. J.**, **2005h:54050**
Yang, Qingzhi (*with* Yu, Hong) Discretization method for semi-definite programming. (English summary) **2005h:90092**
Yang, Yu-Fei *see* **Qi, Liqun et al.**, **2005j:90080**
Ye, Yinyu *see* **Cheung, Dennis et al.**, **2005f:90063**
Yong, Long Quan (*with* Liu, San Yang) A new method for ball constrained convex quadratic programming. (Chinese. English and Chinese summaries)
Yu, Gaohang *see* **Wei, Zeng-xin et al.**, **2005j:90107**
Yu, Hong *see* **Yang, Qingzhi**, **2005h:90092**
Yu, Ji Guo *see* **Yu, Zhen Sheng et al.**
Yu, Zhen Sheng (*with* Wang, Chang Yu; Yu, Ji Guo) Errata and addenda to: "Combining trust region and linesearch algorithm for equality constrained optimization" [J. Appl. Math. Comput. **14** (2004), no. 1-2, 123–136; MR2025427 (2004j:90119)].
Yuan, Gonglin *see* **Wei, Zeng-xin et al.**, **2005j:90107**
Zabotin, V. I. (*with* Chernyaev, Yu. A.) Convergence of an iterative method for solving a mathematical programming problem with a constraint in the form of a convex smooth surface. (Russian. Russian summary) **2005c:90091**
Zadlo, M. *see* **Grossmann, Christian**, **2005m:90162**
Zanghirati, G. *see* **Serafini, T. et al.**, **2005c:90064**
Zanni, L. *see* **Serafini, T. et al.**, **2005c:90064**
Zelina, Ioana *see* **Pop, Nicolae**
Zhang, Hongwu *see* **Zhong, Wan Xie**, (**2005g:74002**)
Zhang, Jian Zhong (*with* Deng, Naiyang; Wang, Zhaozhi) Efficiency analysis on a truncated Newton method with preconditioned conjugate gradient technique for optimization. (English summary) (*see* **2004j:90009**)
Zhang, Ju-Liang (*with* Chen, Jian; Zhuo, Xin-jian) A constrained optimization approach for LCP. (English summary) **2005e:90145**
— (*with* Chen, Jian) A smoothing Levenberg-Marquardt type method for LCP. (English summary) **2005d:90122**
Zhang, Ke Cun *see* **Zhu, Zhi Bin**, **2005c:90092**
Zhang, Le You *see* **Wu, Qing[2] et al.**
Zhang, Li Ping[1] *see* **Huang, Zheng Hai et al.**, **2005f:90134**
Zhang, Li Wei *see* **He, Su Xiang et al.**, **2005f:90119** *and* **Gao, Gui Ying**
Zhang, Pei Ai *see* **Li, Xing Si**, **2005k:90107**
Zhang, Qun-ying *see* **Fan, Jin-yan et al.**, **2005f:90115**
Zhang, Xiang Sun *see* **Chen, Zhong Wen**, **2005f:90161**
Zhang, Yin[1] *see* **Villalobos, M. C. et al.**, **2005e:90159**
Zhong, Wan Xie (*with* Zhang, Hongwu) Mixed energy method for solution of quadratic programming problems. (English summary) (*see* **2005g:74002**)
Zhou, Shu Zi *see* **Tong, Xiao Jiao**, **2005k:93126**
Zhu, Dao Li (*with* Xu, Qing; Lin, Zheng Hua) A homotopy method for solving bilevel programming problem. (English summary) **2005b:90103**
Zhu, De-tong Interior point projected reduced Hessian method with trust region strategy for nonlinear constrained optimization. (English summary) **2005f:90126**
— A trust region algorithm via bilevel linear programming for solving the general multicommodity minimal cost flow problems. (English summary) **2005g:90018**
— Curvilinear paths with nonmonotonic inexact line search technique for unconstrained optimization. (English and Chinese summaries) **2005g:90145**
— An interior affine scaling projective algorithm for nonlinear equality and linear inequality constrained optimization. (English summary) **2005e:90132**
Zhu, Zhi Bin (*with* Zhang, Ke Cun) A new conjugate projection gradient method and superlinear convergence. (Chinese. English and Chinese summaries) **2005c:90092**
— An efficient sequential quadratic programming algorithm for nonlinear programming. (English summary) **2005k:90220**
Zhuo, Xin-jian *see* **Zhang, Ju-Liang et al.**, **2005e:90145**

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Amundson, Neal R. (*with* Caboussat, Alexandre; He, Jiwen; Seinfeld, John H.) An optimization problem related to the modeling of atmospheric organic aerosols. (English and French summaries)
Antipin, A. S. (*with* Vasil′ev, F. P.) A regularized prediction method for solving variational inequalities with an inexactly specified set. (Russian. Russian summary) **2005i:65090**
Aragone, Laura S. On the numerical solution of a variational inequality. (English summary) **2005b:65069**
Badea, Lori (*with* Tai, Xue-Cheng; Wang, Jun Ping[1]) Convergence rate analysis of a multiplicative Schwarz method for variational inequalities. (English summary) **2005a:65059**
Bardsley, Johnathan M. (*with* Vogel, Curtis R.) A nonnegatively constrained convex programming method for image reconstruction. (English summary) **2005d:65094**
Bartels, Sören (*with* Carstensen, Carsten; Plecháč, P.; Prohl, Andreas) Convergence for stabilisation of degenerately convex minimisation problems. (English summary) **2005e:65077**
— Linear convergence in the approximation of rank-one convex envelopes. (English summary) **2005k:65110**
Boulbrachene, Messaoud Pointwise error estimates for a class of elliptic quasi-variational inequalities with nonlinear source terms. (English summary) **2005k:65111**
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Carstensen, Carsten *see* **Bartels, Sören et al.**, **2005e:65077**
Cecil, Thomas C. (*with* Osher, Stanley; Vese, Luminita) Numerical methods for minimization problems constrained to S^1 and S^2. (English summary) **2005j:65062**
Chi, Xue Bin *see* **Gu, Tong Xiang et al.**, **2005f:65081**
Dax, Achiya An open question on cyclic relaxation. (English summary) **2005e:65078**
Droske, M. *see* **Strzodka, R. et al.**, **2005k:65114**
Eriksson, Jerry (*with* Gullikkson, Mårten E.) Local results for the Gauss-Newton method on constrained rank-deficient nonlinear least squares. (English summary) **2005d:65095**
— (*with* Wedin, Per-Åke) Truncated Gauss-Newton algorithms for ill-conditioned nonlinear least squares problems. (English summary) **2005i:65091**
Gill, Philip E. (*with* Leonard, Michael W.) Limited-memory reduced-Hessian methods for large-scale unconstrained optimization. (English summary) **2005b:65070**
Gnatyshyn, O. P. *see* **Shakhno, S. M.**, **2005j:65063**
Gol′shteĭn, E. G. The use of logarithmic barriers for solving variational inequalities. (Russian. Russian summary) **2005k:65112**
Gu, Tong Xiang (*with* Liu, Xing Ping; Chi, Xue Bin) Convergence of a multiple-search-direction conjugate gradient method for symmetric positive definite problems. (Chinese. English summary) **2005f:65081**
Gullikkson, Mårten E. *see* **Eriksson, Jerry**, **2005d:65095**
He, Jiwen *see* **Amundson, Neal R. et al.**
Hintermüller, Michael (*with* Ring, Wolfgang) An inexact Newton-CG-type active contour approach for the minimization of the Mumford-Shah functional. (English summary) **2005d:65096**
Jukić, Dragan (*with* Scitovski, Rudolf; Sabo, Kristian) Total least squares problem for the Hubbert function. (English summary) **2005k:65113**
Kadiri, Abderrahim (*with* Yassine, Adnan) Une procédure de purification pour les problèmes de complémentarité linéaire, monotones. (English and French summaries) [A purification method for monotone linear complementarity problems] **2005e:65079**
Leonard, Michael W. *see* **Gill, Philip E.**, **2005b:65070**
Liu, Jian Guo *see* **Qiang, Guo**
Liu, Xing Ping *see* **Gu, Tong Xiang et al.**, **2005f:65081**
Miao, Guo Ping *see* **You, Yun Xiang**, **2005e:65081**
Moudafi, Abdellatif A hybrid inertial projection-proximal method for variational inequalities. (English summary) **2005h:65094**
Osher, Stanley *see* **Cecil, Thomas C. et al.**, **2005j:65062**
Plecháč, P. *see* **Bartels, Sören et al.**, **2005e:65077**
Prohl, Andreas *see* **Bartels, Sören et al.**, **2005e:65077**
Qiang, Guo (*with* Liu, Jian Guo) Two-phase ABS method for solving over-determined linear inequalities system. (English summary)
Reisinger, Christoph (*with* Wittum, Gabriel) On multigrid for anisotropic equations and variational inequalities: pricing multi-dimensional European and American options. (English summary) **2005g:65098**
Renard, Yves *see* **Slimane, Leila**, **2005e:65080**
Ring, Wolfgang *see* **Hintermüller, Michael**, **2005d:65096**
Rumpf, Martin *see* **Strzodka, R. et al.**, **2005k:65114**
Sabo, Kristian *see* **Jukić, Dragan et al.**, **2005k:65113**
Scitovski, Rudolf *see* **Jukić, Dragan et al.**, **2005k:65113**
Seinfeld, John H. *see* **Amundson, Neal R. et al.**
Shakhno, S. M. (*with* Gnatyshyn, O. P.) On an iterative algorithm of order 1.839 . . . for solving the nonlinear least squares problems. (English summary) **2005j:65063**
Slimane, Leila (*with* Renard, Yves) The treatment of the locking phenomenon for a general class of variational inequalities. (English summary) **2005e:65080**
Strzodka, R. (*with* Droske, M.; Rumpf, Martin) Image registration by a regularized gradient flow. A streaming implementation in DX9 graphics hardware. (English summary) **2005k:65114**
Sun, De Feng *see* **Zhou, Guang Lu et al.**, **2005a:65060**
Tai, Xue-Cheng *see* **Badea, Lori et al.**, **2005a:65059**
Toh, Kim-Chuan *see* **Zhou, Guang Lu et al.**, **2005a:65060**
Tvalodze, Yu. *see* **Zhuzhunashvili, A.**, **2005e:65082**
Vasil′ev, F. P. *see* **Antipin, A. S.**, **2005i:65090**
Verma, Ram U. Three-step models for projection methods and their applications to nonlinear variational inequality problems. (English summary)
Vese, Luminita *see* **Cecil, Thomas C. et al.**, **2005j:65062**
Vogel, Curtis R. *see* **Bardsley, Johnathan M.**, **2005d:65094**
Wang, Jun Ping[1] *see* **Badea, Lori et al.**, **2005a:65059**
Wedin, Per-Åke *see* **Eriksson, Jerry**, **2005i:65091**
Wittum, Gabriel *see* **Reisinger, Christoph**, **2005g:65098**
Yassine, Adnan *see* **Kadiri, Abderrahim**, **2005e:65079**
You, Yun Xiang (*with* Miao, Guo Ping) Numerical method for the shape reconstruction of a hard target. (Chinese. English and Chinese summaries) **2005e:65081**
Zhou, Guang Lu (*with* Toh, Kim-Chuan; Sun, De Feng) Globally and quadratically convergent algorithm for minimizing the sum of Euclidean norms. (English summary) **2005a:65060**
Zhuzhunashvili, A. (*with* Tvalodze, Yu.) On numerical method for some singular minimization problems. (English and Georgian summaries) **2005e:65082**

Items with secondary classifications in 65K10

Al-Baali, M. (*with* Fuduli, Antonio; Musmanno, Roberto) On the performance of switching BFGS/SR1 algorithms for unconstrained optimization. (English summary) **2005a:90194**
Alber, Ya. I. (*with* Nashed, M. Zuhair) Iterative-projection regularization of ill-posed variational inequalities. (English summary) **2005b:49014**
Alvarez, Felipe Weak convergence of a relaxed and inertial hybrid projection-proximal point algorithm for maximal monotone operators in Hilbert space. (English summary) **2005f:49013**
Amstutz, Samuel *see* **Samet, Bessem et al.**, **2005b:49071**
Amundson, Neal R. (*with* Caboussat, Alexandre; He, Jiwen; Seinfeld, John H.; Yoo, Kee-Youn) An optimization problem related to the modeling of atmospheric inorganic aerosols. (English and French summaries) **2005k:90232**
Andramonov, Mikhail The method of confidence neighborhoods for minimizing codifferentiable functions. (Russian) **2005j:90108**
Andreani, Roberto (*with* Birgin, Ernesto G.; Martínez, José Mario; Yuan, Jin Yun) Spectral projected gradient and variable metric methods for optimization with linear inequalities. (English summary) **2005k:90148**
Appel, Martin J. B. (*with* LaBarre, R.; Radulović, Dragan) On accelerated random search. (English summary) **2005c:90055**
Arens, K. (*with* Rentrop, P.; Stoll, S. O.; Wever, U.) An adjoint approach to optimal design of turbine blades. (English summary)

Arguchintsev, A. V. Optimal control of the initial-boundary conditions of first-order hyperbolic systems. (Russian. Russian summary) **2005j:49018**
Arutyunov, Aram V. *see* **Avakov, E. R. et al., 2005k:90149**
Avakov, E. R. (*with* Arutyunov, Aram V.; Izmailov, Alekseĭ Feridovich) On estimates for the rate of convergence of power penalty methods. (Russian. Russian summary) **2005k:90149**
Baniotopoulos, Charalambos C. (*with* Haslinger, Jaroslav; Morávková, Zuzana) Mathematical modeling of delamination and nonmonotone friction problems by hemivariational inequalities. (English summary) **2005k:74060**
Bartels, Sören Adaptive approximation of Young measure solutions in scalar nonconvex variational problems. (English summary) **2005j:49023**
Bătătorescu, Anton (*with* Beldiman, Miruna) On a class of generalized pre-variational inequalities. (English summary) **2005f:49015**
Bean, James C. *see* **Ohlmann, Jeffrey W. et al., 2005j:90070**
Beldiman, Miruna *see* **Bătătorescu, Anton, 2005f:49015**
Belegundu, Ashok D. (*with* Damle, Amol; Rajan, Subramaniam Dharma; Dattaguru, Bhagavatula; Ville, James St.) Parallel line search in method of feasible directions. (English summary)
Belhachmi, Zakaria (*with* Tahir, Souad) Mixed finite element discretization of some variational inequalities arising in elasticity problems in domains with cracks. (English summary) **2005j:65135**
Bello, Lenys (*with* Raydan, Marcos) Preconditioned spectral projected gradient method on convex sets. (English summary) **2005k:90211**
Benamou, Jean-David (*with* Brenier, Yann; Guittet, Kevin) Numerical analysis of a multiphasic mass transport problem. (English summary) **2005f:49092**
Birgin, Ernesto G. *see* **Andreani, Roberto et al., 2005k:90148**
Biros, George (*with* Ghattas, Omar) Inexactness issues in the Lagrange-Newton-Krylov-Schur method for PDE-constrained optimization. (English summary) **2005h:90168**
Blum, Heribert (*with* Braess, Dietrich; Suttmeier, F. T.) A cascadic multigrid algorithm for variational inequalities. (English summary) **2005e:65194**
Bnouhachem, A. (*with* Liu, Zhen Bao) Alternating direction method for maximum entropy subject to simple constraint sets. (English summary) **2005f:49017**
Bock, Hans Georg *see* **Körkel, Stefan et al., 2005d:49050**
Bonnans, Joseph Frédéric (*with* Guilbaud, Thérèse; Ketfi-Cherif, Ahmed; von Wissel, Dirk; Sagastizábal, Claudia; Zidani, Housnaa) Parametric optimization of hybrid car engines. (English summary) **2005f:49090**
Borzì, Alfio (*with* Borzì, Giuseppe) An efficient algebraic multigrid method for solving optimality systems. (English summary) **2005e:65195**
Borzì, Giuseppe *see* **Borzì, Alfio, 2005e:65195**
Bostan, Viorel (*with* Han, Weimin; Reddy, B. Daya) A posteriori error estimation and adaptive solution of elliptic variational inequalities of the second kind. (English summary) **2005i:65167**
Boulbrachene, Messaoud (*with* Chentouf, Boumediène) The finite element approximation of Hamilton-Jacobi-Bellman equations: the noncoercive case. (English summary) **2005k:49092**
Braess, Dietrich *see* **Blum, Heribert et al., 2005e:65194**
Bratkovič, Franc *see* **Bűrmen, Árpád et al., 2005c:90119**
Brenier, Yann *see* **Benamou, Jean-David et al., 2005f:49092**
Brezillon, J. *see* **Hazra, Subhendu Bikash et al., 2005j:76076**
Bűrmen, Árpád (*with* Bratkovič, Franc; Puhan, Janez; Fajfar, Iztok; Tuma, Tadej) Extended global convergence framework for unconstrained optimization. (English summary) **2005c:90119**
Byatt, D. (*with* Coope, Ian D.; Price, Christopher J.) Conjugate grids for unconstrained optimisation. (English summary) **2005e:90118**
Caboussat, Alexandre *see* **Amundson, Neal R. et al., 2005k:90232**
Canuto, Claudio (*with* Urban, Karsten) Adaptive optimization of convex functionals in Banach spaces. (English summary) **2005m:90081**
Cao, Dexin *see* **Sun, Jing, 2005k:90117**
Cao, Xing Tao *see* **Chen, Yuan Yuan et al.**
Carl, Siegfried (*with* Le, Vy Khoi) Monotone penalty approximation of extremal solutions for quasilinear noncoercive variational inequalities. (English summary) **2005c:35123**
Carstensen, Carsten Ten remarks on nonconvex minimisation for phase transition simulations. (English summary) **2005g:74092**
Casado, L. G. *see* **Martínez, J. A. et al.**
Castro-Díaz, Manuel Jesús *see* **Gallardo Molina, José María et al., 2005m:49017**
Chavent, Guy Curvature steps and geodesic moves for nonlinear least squares descent algorithms. (English summary) **2005a:90185**
Chen, Guo Qing *see* **Wu, Li Ji, 2005i:90082**
Chen, Yuan Yuan (*with* Cao, Xing Tao; Du, Shou Qiang) A nonlinear conjugate gradient method with global convergence. (Chinese. English and Chinese summaries)
— *see also* **Du, Shou Qiang, 2005b:90127**
Chentouf, Boumediène *see* **Boulbrachene, Messaoud, 2005k:49092**
Cho, Yeol Je (*with* Fang, Ya Ping; Huang, Nan Jing; Hwang, Ho Jin) Algorithms for systems of nonlinear variational inequalities. (English summary) **2005d:90138**
Coope, Ian D. (*with* Price, Christopher J.) A direct search frame-based conjugate gradients method. (English summary) **2005f:90164**
— *see also* **Byatt, D. et al., 2005e:90118**
Csendes, Tibor Generalized subinterval selection criteria for interval global optimization. (English summary)
Cui, Huijuan *see* **Gu, Yuantao et al., 2005d:94031**
Dacorogna, Bernard (*with* Glowinski, Roland; Kuznetsov, Yuriĭ Alekseevich[1]; Pan, Tsorng-Whay) On a conjugate gradient/Newton/penalty method for the solution of obstacle problems. Application to the solution of an eikonal system with Dirichlet boundary conditions. **2005g:49016**
Dai, Yu-Hong Conjugate gradient methods with Armijo-type line searches. (English summary) **2005c:90115**
— (*with* Liao, Li-Zhi; Li, Duan) On restart procedures for the conjugate gradient method. (English summary) **2005h:90129**
Damle, Amol *see* **Belegundu, Ashok D. et al.**
Dar'ina, A. N. (*with* Izmailov, Alekseĭ Feridovich; Solodov, Mikhail) Mixed complementarity problems: regularity, estimates for the distance to a solution, and Newton methods. (Russian. Russian summary) **2005d:90127**
Dattaguru, Bhagavatula *see* **Belegundu, Ashok D. et al.**
Delattre, Sylvain (*with* Fort, Jean-Claude; Pagès, Gilles) Local distortion and μ-mass of the cells of one dimensional asymptotically optimal quantizers. (English summary) **2005e:62021**
Dem'yanov, V. F. (*with* Giannessi, Franco) Variational problems with constraints involving higher-order derivatives. (English summary) **2005a:49041**
Deng, Naiyang (*with* Zhang, Haibin) Theoretical efficiency of a new inexact method of tangent hyperbolas. (English summary) **2005d:90115**
Ding, Xie Ping Iterative algorithms for solving generalized nonlinear mixed variational inequalities. (English summary) **2005h:49018**
Dong, Junliang *see* **Jiang, Meiqun, 2005m:90131**
Dostál, Zdeněk (*with* Horák, David) Scalable FETI with optimal dual penalty for a variational inequality. (English summary) **2005c:65100**
— *see also* **Haslinger, Jaroslav et al., 2005f:74061**
Du, Li Li[1] Neural networks for solving generalized nonlinear complementarity problems. (Chinese. English and Chinese summaries)
Du, Shou Qiang (*with* Chen, Yuan Yuan) Global convergence properties of three-term conjugate gradient method with new Wolfe-type line search. (English summary) **2005b:90127**
— (*with* Chen, Yuan Yuan) Global convergence for a class of conjugate gradient methods with relaxed line search. (English and Chinese summaries)
— *see also* **Chen, Yuan Yuan et al.**
Egorshin, A. O. Optimization of the parameters of time-invariant models in a unitary space. (Russian. Russian summary) **2005k:93052**
Fajfar, Iztok *see* **Bűrmen, Árpád et al., 2005c:90119**
Fang, Ya Ping *see* **Cho, Yeol Je et al., 2005d:90138** *and* **Huang, Nan Jing, 2005m:90130**
Fasano, Giovanni Conjugate gradient (CG)-type method for the solution of Newton's equation within optimization frameworks. (English summary) **2005e:90119**
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Fuduli, Antonio *see* **Al-Baali, M. et al., 2005a:90194**
Fukuda, Komei (*with* Rosta, V.) Exact parallel algorithms for the location depth and the maximum feasible subsystem problems. (English summary) **2005e:90168**
Fukushima, Masao *see* **Kanzow, Christian et al., 2005h:65084a**; **2005h:65084b** *and* **Hayashi, Shunsuke et al., 2005h:90140**
Gaeva, Z. S. (*with* Shananin, A. A.) A numerical method for solving the problem of the control of the microstructure of a hail cloud. (Russian. English and Russian summaries) **2005m:86001**
Gallardo Molina, José María (*with* Parés, Carlos; Castro-Díaz, Manuel Jesús) A generalized duality method for solving variational inequalities. Applications to some nonlinear Dirichlet problems. (English summary) **2005m:49017**
Gao, Zi You (*with* Ren, Hua Ling; He, Guo Ping) A new algorithm without strict complementary slackness for sequential systems of linear equations. (Chinese. English and Chinese summaries) **2005d:90128**
García-Fernández, I. *see* **Martínez, J. A. et al.**
Gauger, N. R. *see* **Hazra, Subhendu Bikash et al., 2005j:76076**
Genovese, K. (*with* Lamberti, Luciano; Pappalettere, C.) Improved global-local simulated annealing formulation for solving non-smooth engineering optimization problems. (English summary)
Ghattas, Omar *see* **Biros, George, 2005h:90168**
Giannessi, Franco *see* **Dem'yanov, V. F., 2005a:49041**
Glowinski, Roland *see* **Dacorogna, Bernard et al., 2005g:49016**
Griewank, Andreas (*with* Faure, Christèle) Piggyback differentiation and optimization. (English summary) **2005b:90160**
Groenwold, Albert A. *see* **Schutte, Jaco F.**
Grossmann, Christian (*with* Klatte, Diethard; Kummer, Bernd) Convergence of primal-dual solutions for the nonconvex log-barrier method without LICQ. (English summary) **2005j:90078**
Gu, Yuantao (*with* Tang, Kun; Cui, Huijuan) Superior step-size theorem and its application—parallel variable step-size LMS filters algorithm. (English summary) **2005d:94031**
Guilbaud, Thérèse *see* **Bonnans, Joseph Frédéric et al., 2005f:49090**
Guittet, Kevin *see* **Benamou, Jean-David et al., 2005f:49092**
Hamdi, Abdelouahed A Moreau-Yosida regularization of a difference of two convex functions. (English summary) **2005k:90112**
Han, Deren (*with* Sun, Wen Yu) A new modified Goldstein-Levitin-Polyak projection method for variational inequality problems. (English summary) **2005e:90138**
— A truly globally convergent feasible Newton-type method for mixed complementarity problems. (English summary) **2005f:90133**
Han, Weimin *see* **Bostan, Viorel et al., 2005i:65167**
Haslinger, Jaroslav (*with* Kučera, Radek; Dostál, Zdeněk) An algorithm for the numerical realization of 3D contact problems with Coulomb friction. (English summary) **2005f:74061**
— *see also* **Baniotopoulos, Charalambos C. et al., 2005k:74060**
Hayashi, Shunsuke (*with* Yamaguchi, Takahiro; Yamashita, Nobuo; Fukushima, Masao) A matrix-splitting method for symmetric affine second-order cone complementarity problems. (English summary) **2005h:90140**
Hazra, Subhendu Bikash (*with* Schulz, Volker; Brezillon, J.; Gauger, N. R.) Aerodynamic shape optimization using simultaneous pseudo-timestepping. (English summary) **2005j:76076**
He, Guo Ping *see* **Gao, Zi You et al., 2005d:90128**
He, Jiwen *see* **Amundson, Neal R. et al., 2005k:90232**
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Henderson, Shane G. *see* **Ohlmann, Jeffrey W. et al., 2005j:90070**
Hintermüller, Michael (*with* Kovtunenko, V. A.; Kunisch, Karl) Semismooth Newton methods for a class of unilaterally constrained variational problems. (English summary) **2005h:49078**
— (*with* Ring, Wolfgang) A level set approach for the solution of a state-constrained

optimal control problem. (English summary) **2005g:49039**
— (*with* Kunisch, Karl) Total bounded variation regularization as a bilaterally constrained optimization problem. (English summary) **2005b:49062**
Hinze, Michael A variational discretization concept in control constrained optimization: the linear-quadratic case. (English summary) **2005i:49034**
Horák, David *see* **Dostál, Zdeněk, 2005c:65100**
Hu, Yi Zheng (*with* Liu, Fa Wang) Numerical methods for a fractional-order control system. (Chinese. English and Chinese summaries)
Huang, Nan Jing (*with* Fang, Ya Ping) Strong vector F-complementary problem and least element problem of feasible set. (English summary) **2005m:90130**
— *see also* **Cho, Yeol Je et al., 2005d:90138**
Huang, Zheng Hai Global Lipschitzian error bounds for semidefinite complementarity problems with emphasis on NCPs. (English summary) **2005h:90089**
— Locating a maximally complementary solution of the monotone NCP by using non-interior-point smoothing algorithms. (English summary) **2005k:90173**
Hwang, Ho Jin *see* **Cho, Yeol Je et al., 2005d:90138**
Ikramov, Kh. D. (*with* Matin far, M.) On the computer algebra implementation of the method of least squares on the nonnegative orthant. (Russian. English and Russian summaries) **2005i:65065**
— (*with* Matin far, M.) Computer-algebra procedures for the least squares problem with linear inequality constraints. (Russian. Russian summary) **2005m:90077**
Izmailov, Alekseĭ Feridovich *see* **Dar'ina, A. N. et al., 2005d:90127** *and* **Avakov, E. R. et al., 2005k:90149**
Jackson, Russell K. (*with* Jones, Christopher K. R. T.; Zharnitsky, Vadim) Dispersion-managed solitons via an averaged variational principle. (English summary) **2005a:65110**
Jia, Shi Hui (*with* Wan, Zhong Ping; He, Ju Lin; Peng, Xiang Yang) A new discretization method for semi-infinite programming problems. (Chinese. English and Chinese summaries) **2005k:90182**
Jian, Jin Bao (*with* Mo, Xing-De; Li, Jian Ling[2]) Explicit and implicit continuation algorithms for strongly monotone variational inequalities with box constraints. (English summary) **2005d:49012**
Jiang, Meiqun (*with* Dong, Junliang) On convergence of two-stage splitting methods for linear complementarity problems. (English summary) **2005m:90131**
Jones, Christopher K. R. T. *see* **Jackson, Russell K. et al., 2005a:65110**
Kang, Tong *see* **Ma, Chang Feng, 2005h:49020**
Kanzow, Christian (*with* Yamashita, Nobuo; Fukushima, Masao) Levenberg-Marquardt methods with strong local convergence properties for solving nonlinear equations with convex constraints. (English summary) **2005h:65084a**
— Inexact semismooth Newton methods for large-scale complementarity problems. (English summary) **2005f:90136**
— (*with* Yamashita, Nobuo; Fukushima, Masao) Levenberg-Marquardt methods with strong local convergence properties for solving nonlinear equations with convex constraints. (English summary) **2005h:65084b**
Kelley, Carl T. Implicit filtering and nonlinear least squares problems. (English summary) **2005f:90157**
Ketfi-Cherif, Ahmed *see* **Bonnans, Joseph Frédéric et al., 2005f:49090**
Klatte, Diethard *see* **Grossmann, Christian et al., 2005j:90078**
Klibanov, Michael V. *see* **Timonov, A. A.**
Konnov, Igor V. A proximal method for nonmonotone variational inequalities. (Russian. Russian summary) **2005g:49018**
— Convex optimization problems with arbitrary right-hand side perturbations. (English summary) **2005m:90126**
Körkel, Stefan (*with* Kostina, Ekaterina; Bock, Hans Georg; Schlöder, Johannes P.) Numerical methods for optimal control problems in design of robust optimal experiments for nonlinear dynamic processes. (English summary) **2005d:49050**
Kostina, Ekaterina *see* **Körkel, Stefan et al., 2005d:49050**
Kovtunenko, V. A. *see* **Hintermüller, Michael et al., 2005h:49078**
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Lamberti, Luciano *see* **Genovese, K. et al.**
Le, Vy Khoi *see* **Carl, Siegfried, 2005c:35123**
LeFloch, Philippe G. (*with* Shearer, M.) Non-classical Riemann solvers with nucleation. (English summary) **2005j:35152**
Li, Chenliang (*with* Zeng, Jin-Ping; Zhou, Shu Zi) Convergence analysis of generalized Schwarz algorithms for solving obstacle problems with T-monotone operator. (English summary) **2005h:65243**
Li, Duan *see* **Dai, Yu-Hong et al., 2005h:90129**
Li, Jian Ling[2] *see* **Jian, Jin Bao et al., 2005d:49012**
Li, Kang Di *see* **Pu, Ding Guo et al.**
Li, Ruo (*with* Liu, Wen Bin[1]; Ma, He Ping) Moving mesh method with error-estimator-based monitor and its applications to static obstacle problem. (English summary) **2005b:65136**
Liao, Li-Zhi *see* **Dai, Yu-Hong et al., 2005h:90129**
Liu, Fa Wang *see* **Hu, Yi Zheng**
Liu, Wen Bin[1] *see* **Li, Ruo et al., 2005b:65136**
Liu, Xin Hai *see* **Sun, Qing Ying, 2005f:65053**
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Liu, Zhen Bao *see* **Bnouhachem, A., 2005f:49017**
Lyashko, S. I. *see* **Sergienko, Ivan V. et al.**
Ma, Chang Feng A successive approximation Broyden-like algorithm for solving the box constrained variational inequality problems. (Chinese. English summary) **2005k:90217**
— (*with* Kang, Tong) A Jacobian smoothing method for box constrained variational inequality problems. (English summary) **2005h:49020**
Ma, He Ping *see* **Li, Ruo et al., 2005b:65136**
Martínez, J. A. (*with* Casado, L. G.; García-Fernández, I.; Sergeev, Yaroslav D.; Tóth, Boglárka) On an efficient use of gradient information for accelerating interval global optimization algorithms. (English summary)
Martínez, José Mario *see* **Andreani, Roberto et al., 2005k:90148**
Masmoudi, Mohamed *see* **Samet, Bessem et al., 2005b:49071**
Matin far, M. *see* **Ikramov, Kh. D., 2005i:65065** *and* **2005m:90077**
Messine, Frédéric A deterministic global optimization algorithm for design problems. (English summary)
Mifflin, Robert (*with* Sagastizábal, Claudia) $\mathcal{VU}$-smoothness and proximal point results for some nonconvex functions. (English summary) **2005g:49025**
— (*with* Sagastizábal, Claudia) Relating $\mathcal{U}$-Lagrangians to second-order epi-derivatives and proximal-tracks. (English summary) **2005m:90128**
Mijangos, E. On the efficiency of multiplier methods for nonlinear network problems with nonlinear constraints. (English summary) **2005b:90020**
Mo, Xing-De *see* **Jian, Jin Bao et al., 2005d:49012**
Morávková, Zuzana *see* **Baniotopoulos, Charalambos C. et al., 2005k:74060**
Moré, Jorge J. (*with* Munson, Todd S.) Computing mountain passes and transition states. (English summary) **2005d:90119**
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Ohlmann, Jeffrey W. (*with* Bean, James C.; Henderson, Shane G.) Convergence in probability of compressed annealing. (English summary) **2005j:90070**
Pagès, Gilles *see* **Delattre, Sylvain et al., 2005e:62021**
Pan, Tsorng-Whay *see* **Dacorogna, Bernard et al., 2005g:49016**
Pappalettere, C. *see* **Genovese, K. et al.**
Parés, Carlos *see* **Gallardo Molina, José María et al., 2005m:49017**
Peigney, Michaël Simulating wear under cyclic loading by a minimization approach. (English summary) **2005f:74063**
Peng, Xiang Yang *see* **Jia, Shi Hui et al., 2005k:90182**
Penot, Jean-Paul Calmness and stability properties of marginal and performance functions. (English summary) **2005c:49038**
Phan Quốc Khánh *see* **Truong Quang Bao, 2005k:49033**
Popescu, Elena On the approximation of inconsistent inequality systems. (English summary)
Popov, L. D. On schemes for the formation of a master sequence in a regularized extragradient method for solving variational inequalities. (Russian) **2005a:49016**
Potapov, M. M. On estimates for the accuracy of regularization methods in quadratic minimization problems on a half-plane. (Russian. Russian summary) **2005b:90085**
Potra, Florian A. A superlinearly convergent predictor-corrector method for degenerate LCP in a wide neighborhood of the central path with $O(\sqrt{n}L)$-iteration complexity. (English summary) **2005e:90144**
Price, Christopher J. *see* **Byatt, D. et al., 2005e:90118** *and* **Coope, Ian D., 2005f:90164**
Pu, Ding Guo (*with* Li, Kang Di; Xue, Wen Juan) Convergence of QP-free infeasible methods for nonlinear inequality constrained optimization problems. (Chinese. English and Chinese summaries)
Pu, Zhi Qin *see* **Wang, Cheng et al., 2005k:90118**
Puhan, Janez *see* **Bűrmen, Árpád et al., 2005c:90119**
Qu, Biao *see* **Wang, Chang Yu, 2005g:90153**
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Rentrop, P. *see* **Arens, K. et al.**
Ring, Wolfgang *see* **Hintermüller, Michael, 2005g:49039**
Rösch, Arnd Error estimates for parabolic optimal control problems with control constraints. (English summary) **2005f:49081**
Rosta, V. *see* **Fukuda, Komei, 2005e:90168**
Ryazantseva, I. P. A continuous first-order regularization method for monotone variational inequalities in a Banach space. (Russian. Russian summary) **2005k:49030**
— On a method for the approximation of solutions of variational inequalities with monotone mappings in a Banach space with approximate specification of data. (Russian. Russian summary) **2005m:49022**
— Some second-order regularization methods for convex extremal problems in a Banach space. (Russian. Russian summary) **2005c:90069**
Ryoo, Cheon Seoung A numerical verification of solutions of free boundary problems. (English summary)
— Verification for existence of solutions for some generalized obstacle problems. (English summary)
Sagastizábal, Claudia *see* **Bonnans, Joseph Frédéric et al., 2005f:49090**; **Mifflin, Robert, 2005g:49025** *and* **2005m:90128**
Salmon, Geneviève (*with* Strodiot, Jean-Jacques; Nguyen, Van Hien) A bundle method for solving variational inequalities. (English summary) **2005e:49020**
Samet, Bessem (*with* Amstutz, Samuel; Masmoudi, Mohamed) The topological asymptotic for the Helmholtz equation. (English summary) **2005b:49071**
Schäfer, Uwe[2] A linear complementarity problem with a P-matrix. (English summary) **2005j:90084**
Schittkowski, Klaus Data fitting in partial differential algebraic equations: some academic and industrial applications. (English summary) **2005c:65083**
Schlöder, Johannes P. *see* **Körkel, Stefan et al., 2005d:49050**
Schulz, Volker *see* **Hazra, Subhendu Bikash et al., 2005j:76076**
Schutte, Jaco F. (*with* Groenwold, Albert A.) A study of global optimization using particle swarms. (English summary)
Seinfeld, John H. *see* **Amundson, Neal R. et al., 2005k:90232**
Sergeev, Yaroslav D. *see* **Martínez, J. A. et al.**
Sergienko, Ivan V. (*with* Lyashko, S. I.; Voĭtsekhovskiĭ, S. A.) Approximate solution of a class of second-order variational elliptic inequalities in domains of arbitrary shape. (Russian. English and Ukrainian summaries)
Shananin, A. A. *see* **Gaeva, Z. S., 2005m:86001**
Shearer, M. *see* **LeFloch, Philippe G., 2005j:35152**

Shen, Jianhong Bayesian video dejittering by the BV image model. (English summary) **2005h:94010**
Shen, Jie[4] *see* **Shi, Zhen Jun**, **2005j:90104**
Shen, Pei Ping (*with* Zhang, Ke Cun) An interval slope algorithm for global optimization. (Chinese. English summary) **2005a:90153**
Shen, Zu He *see* **Wang, Zheng Yu[2]**
Shi, Kui Ran *see* **Wang, Cheng et al.**, **2005k:90118**
Shi, Zhen Jun Convergence of multi-step curve search method for unconstrained optimization. (English summary) **2005g:90142**
— (*with* Shen, Jie[4]) A new descent algorithm with curve search rule. (English summary) **2005j:90104**
Snyman, Jan A. A gradient-only line search method for the conjugate gradient method applied to constrained optimization problems with severe noise in the objective function. (English summary) **2005g:90172**
Solodov, Mikhail *see* **Dar'ina, A. N. et al.**, **2005d:90127**
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Stukalov, A. S. *see* **Vasil'ev, F. P.**, **2005k:49108**
Sun, Jing (*with* Cao, Dexin) An interval algorithm for univariate Lipschitz global optimization. (English and Chinese summaries) **2005k:90117**
Sun, Qing Ying (*with* Liu, Xin Hai) Global convergence results of a new three term conjugate gradient method with generalized Armijo step size rule. (Chinese. English summary) **2005f:65053**
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Suttmeier, F. T. *see* **Blum, Heribert et al.**, **2005e:65194**
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Teo, Kok Lay *see* **Yiu, K. F. C. et al.**, **2005b:90170**
Timonov, A. A. (*with* Klibanov, Michael V.) A new iterative procedure for the numerical solution of coefficient inverse problems. (English summary)
Tóth, Boglárka *see* **Martínez, J. A. et al.**
Truong Quang Bao (*with* Phan Quốc Khánh) A projection-type algorithm for pseudomonotone nonlipschitzian multivalued variational inequalities. (English summary) **2005k:49033**
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Urban, Karsten *see* **Canuto, Claudio**, **2005m:90081**
Vasil'ev, F. P. (*with* Stukalov, A. S.) Conditions for the approximation of equilibrium problems from the value of a functional. (Russian. Russian summary) **2005k:49108**
Verma, Ram U. Three-step models for nonlinear cocoercive variational inequality problems. (English summary)
— General class of relaxed pseudococoercive nonlinear variational inequalities and relaxed projection methods. (English summary)
Ville, James St. *see* **Belegundu, Ashok D. et al.**
Voĭtsekhovskiĭ, S. A. *see* **Sergienko, Ivan V. et al.**
Wan, Zhong Ping *see* **Jia, Shi Hui et al.**, **2005k:90182**
Wang, Chang Yu (*with* Qu, Biao) Global convergence of Gauss-Newton methods for complementarity problem. (English and Chinese summaries) **2005g:90153**
Wang, Cheng (*with* Shi, Kui Ran; Pu, Zhi Qin) A class of interval methods for global optimization. (Chinese. English and Chinese summaries) **2005k:90118**
Wang, Dao Lin (*with* Ning, Wei) Fast convergent algorithm for a class of optimization problems. (Chinese. English and Chinese summaries)
Wang, Lianwen Convergence of discrete approximations to optimization problems of neutral functional-differential inclusions. (English summary) **2005k:49096**
Wang, Wei[9] (*with* Zhang, Lian Sheng; Xu, Yi Fan) A revised conjugate gradient projection algorithm for inequality constrained optimizations. (English summary) **2005h:90167**
Wang, Xiao Ming[1] *see* **Zhang, Zhiqian et al.**
Wang, Zheng Yu[2] (*with* Shen, Zu He) Kantorovich theorem for variational inequalities. (Chinese. English and Chinese summaries)
Wang, Zhi Hua The convergence of inexact proximal point algorithm for monotone variational inequalities. (Chinese. English summary) **2005k:90214**
Wever, U. *see* **Arens, K. et al.**
von Wissel, Dirk *see* **Bonnans, Joseph Frédéric et al.**, **2005f:49090**
Wu, Li Ji (*with* Chen, Guo Qing) A new smooth merit function for nonlinear complementarity problems and a Newton-type method. (Chinese. English summary) **2005i:90082**
— (*with* Chen, Guo Qing) A new parameterized merit function for linear complementarity problems and a damped Newton method. (Chinese. English and Chinese summaries)
Xu, Bi Huan Solving transportation problems by a projection and contraction method of Levenberg-Marquardt type. (Chinese. English summary) **2005k:90177**
Xu, Yi Fan *see* **Wang, Wei[9] et al.**, **2005h:90167**
Xue, Wen Juan *see* **Pu, Ding Guo et al.**
Yamaguchi, Takahiro *see* **Hayashi, Shunsuke et al.**, **2005h:90140**
Yamashita, Nobuo *see* **Kanzow, Christian et al.**, **2005h:65084a**; **2005h:65084b** *and* **Hayashi, Shunsuke et al.**, **2005h:90140**
Yang, Yu-Fei Globally and superlinearly convergent algorithms for the solution of box-constrained optimization. (English summary) **2005e:90127**
Yiu, K. F. C. (*with* Liu, Yan Qun; Teo, Kok Lay) A hybrid descent method for global optimization. (English summary) **2005b:90170**
Yoo, Kee-Youn *see* **Amundson, Neal R. et al.**, **2005k:90232**
Yuan, Jin Yun *see* **Andreani, Roberto et al.**, **2005k:90148**
Zeng, Jin-Ping *see* **Li, Chenliang et al.**, **2005h:65243**
Zhang, Haibin *see* **Deng, Naiyang**, **2005d:90115**
Zhang, Ke Cun *see* **Shen, Pei Ping**, **2005a:90153**
Zhang, Lian Sheng *see* **Wang, Wei[9] et al.**, **2005h:90167**
Zhang, Ling *see* **Zhang, Zhiqian et al.**
Zhang, Zhiqian (*with* Zhou, Jinxiong; Zhou, Ning[2]; Wang, Xiao Ming[1]; Zhang, Ling) Shape optimization using reproducing kernel particle method and an enriched genetic algorithm. (English summary)
Zharnitsky, Vadim *see* **Jackson, Russell K. et al.**, **2005a:65110**
Zhou, Jianxin A local min-orthogonal method for finding multiple saddle points. (English summary) **2005a:35061**
Zhou, Jinxiong *see* **Zhang, Zhiqian et al.**
Zhou, Ning[2] *see* **Zhang, Zhiqian et al.**
Zhou, Shu Zi *see* **Li, Chenliang et al.**, **2005h:65243**
Zhu, De-tong A two-piece update of projected Hessian algorithm with nonmonotonic trust region method for constrained optimization. (English summary) **2005d:90143**
Zidani, Housnaa *see* **Bonnans, Joseph Frédéric et al.**, **2005f:49090**

65K99 None of the above, but in this section

Cheng, Jung-Ho *see* **Hu, Ssu-yuan**
Hu, Ssu-yuan (*with* Cheng, Jung-Ho) Development of the unlocking mechanisms for the complex method. (English summary)
Kai, Hiroshi *see* **Zhi, Lihong et al.**, **2005b:65071**
Noda, Matu-Tarow *see* **Zhi, Lihong et al.**, **2005b:65071**
Wu, Wenda *see* **Zhi, Lihong et al.**, **2005b:65071**
Zhi, Lihong (*with* Noda, Matu-Tarow; Kai, Hiroshi; Wu, Wenda) Hybrid method for computing the nearest singular polynomials. (English summary) **2005b:65071**

Items with secondary classifications in 65K99

Akrotirianakis, Ioannis G. (*with* Floudas, Christodoulos A.) A new class of improved convex underestimators for twice continuously differentiable constrained NLPs. (English summary) **2005i:90065**
Boggs, Paul T. (*with* Long, Kevin R.) A software system for PDE-constrained optimization problems. (English summary) **2005b:49063**
Burgin, Mark Fuzzy optimization of real functions. (English summary) **2005i:26055**
Caratzoulas, S. (*with* Floudas, Christodoulos A.) Trigonometric convex underestimator for the base functions in Fourier space. (English summary) **2005m:90086**
Coello Coello, Carlos A. *see* **Hernández Aguirre, Arturo et al.**, **2005h:90117**
Floudas, Christodoulos A. *see* **Akrotirianakis, Ioannis G.**, **2005i:90065** *and* **Caratzoulas, S.**, **2005m:90086**
Hernández Aguirre, Arturo (*with* Rionda, Salvador Botello; Coello Coello, Carlos A.; Lizárraga Lizárraga, Giovanni; Mezura Montes, Efrén) Handling constraints using multiobjective optimization concepts. (English summary) **2005h:90117**
Lai, Tze Leung (*with* Wong, Samuel Po-Shing) Valuation of American options via basis functions. (English summary) **2005b:91121**
Lizárraga Lizárraga, Giovanni *see* **Hernández Aguirre, Arturo et al.**, **2005h:90117**
Long, Kevin R. *see* **Boggs, Paul T.**, **2005b:49063**
Mezura Montes, Efrén *see* **Hernández Aguirre, Arturo et al.**, **2005h:90117**
Nurminskiĭ, E. A. A parallel method of projection onto the convex hull of a family of sets. (Russian) **2005h:90095**
Peeva, Ketty Resolution of min-max fuzzy relational equations. (English summary) **2005d:03097**
Rionda, Salvador Botello *see* **Hernández Aguirre, Arturo et al.**, **2005h:90117**
Wong, Samuel Po-Shing *see* **Lai, Tze Leung**, **2005b:91121**
Zhou, Qing[1] Power utility maximization in an exponential Lévy model without a risk-free asset. (English summary) **2005m:60105**

65Lxx Ordinary differential equations

Items with secondary classifications in 65Lxx

Gladwell, Ian *see* **Simos, T. E.**
Simos, T. E. (*with* Gladwell, Ian) Preface [Numerical solution of ODEs].
Sommeijer, Ben P. (*with* Verwer, Jan G.; Strehmel, Karl; Weiner, Rüdiger) Preface [Tenth Seminar on Numerical Solution of Differential and Differential-Algebraic Equations].
Stanoyevitch, Alexander ★ Introduction to numerical ordinary and partial differential equations using MATLAB®.
Strehmel, Karl *see* **Sommeijer, Ben P. et al.**
Tveito, Aslak (*with* Winther, Ragnar) ★ Introduction to partial differential equations. **2005g:65002**
Verwer, Jan G. *see* **Sommeijer, Ben P. et al.**
Weiner, Rüdiger *see* **Sommeijer, Ben P. et al.**
Winther, Ragnar *see* **Tveito, Aslak**, **2005g:65002**

65L05 Initial value problems

Aashikpelokhai, U. S. U. A variable order numerical integration based on rational interpolants. (English summary) **2005a:65061**
Abdel-Halim, I. H. Differential transformation technique for solving higher-order initial value problems. (English summary)
Abd-El-Naby, M. A. (*with* Ramadan, Mohamed A.; Mohamed, Samir T.) Spline approximation for solving system of first order delay differential equations. (English summary) **2005i:65092**
Ademiluyi, R. A. A new one-step scheme for the integration of ordinary differential equations. (English summary) **2005c:65049**
Alexiou, D. (*with* Alwadi, Y.) Numerical solution of ordinary differential equations. (English summary)
Alwadi, Y. *see* **Alexiou, D.**
Arponen, Teijo (*with* Leimkuhler, B.) An efficient geometric integrator for thermostatted anti-/ferromagnetic models. (English summary) **2005h:65095**
Ashyralyev, Allaberen (*with* Sobolevskii, Pavel E.) On the two-step a high order of accuracy difference schemes for the second order differential equations. (English summary) **2005k:65115**
Auzinger, W. (*with* Hofstätter, H.; Kreuzer, Wolfgang[2]; Weinmüller, E.) Modified defect correction algorithms for ODEs. I. General theory. (English summary) **2005h:65096**
Bai, Zhong Zhi (*with* Ng, Michael K.; Pan, Jian-Yu) Alternating splitting waveform relaxation method and its successive overrelaxation acceleration. (English summary) **2005j:65064**
— *see also* **Pan, Jian-Yu et al.**, **2005e:65087** *and* **2005j:65069**

Belyaeva, N. P. (*with* Dmitriev, M. G.) Construction of an approximate solution of initial value problems with a parameter, based on Padé approximants and asymptotic expansions. (Russian. Russian summary) **2005c:65050**

Bendahmane, F. *see* **Benouaz, T., 2005m:65124**

Benouaz, T. (*with* Bendahmane, F.) Least-square approximation of a nonlinear O.D.E. with excitation. (English summary) **2005m:65124**

Blanes, Sergio (*with* Casas, Fernando; Murua, Ander) On the numerical integration of ordinary differential equations by processed methods. (English summary) **2005j:65065**

Brugnano, Luigi (*with* Magherini, Cecilia) Some linear algebra issues concerning the implementation of blended implicit methods. (English summary) **2005m:65125**

Butcher, John C. (*with* Wright, William) The construction of practical general linear methods. (English summary) **2005d:65097**

— (*with* Jackiewicz, Z.) Unconditionally stable general linear methods for ordinary differential equations. (English summary) **2005i:65093**

Calvo Pinilla, M. Backward error analysis of numerical methods for ODEs and Lie-Hori perturbation theory. (English summary) **2005k:65116**

Casas, Fernando Numerical integration methods for the double-bracket flow. (English summary) **2005c:65051**

— *see also* **Blanes, Sergio et al., 2005j:65065**

Chawla, Man M. A class of linearly implicit Newmark-type methods for second order initial value problems. (English summary)

Chen, Cha'o-Kuang (*with* Chen, Shih-Shin) Application of the differential transformation method to a non-linear conservative system. (English summary) **2005k:65117**

Chen, Shih-Shin *see* **Chen, Cha'o-Kuang, 2005k:65117**

Danilin, A. N. (*with* Snegovski, D. V.; Volkov-Bogorodsky, D. B.) On implicit algorithms of continuation method with applications to dynamic systems. (English summary) **2005d:65098**

Danković, B. M. *see* **Ranđelović, B. M. et al., 2005c:65056**

Del Buono, Nicoletta (*with* Lopez, Luciano) Numerical integration of a class of ordinary differential equations on the general linear group of matrices. (English summary) **2005b:65072**

Dmitriev, M. G. *see* **Belyaeva, N. P., 2005c:65050**

de Dormale, Bernard M. *see* **Serghini Mounim, Abdellatif**

Dubeau, François (*with* Ouansafi, A.; Sakat, A.) Galerkin methods for nonlinear ordinary differential equation with impulses. (English summary) **2005b:65073**

Duca, I. (*with* Duca, Mioara) Contractions and contractive mappings in differential equations theory. (English and Romanian summaries) **2005e:65083**

Duca, Mioara *see* **Duca, I., 2005e:65083**

E, Wei-nan Analysis of the heterogeneous multiscale method for ordinary differential equations. **2005f:65082**

El-Mesiry, A. E. M. (*with* El-Sayed, Ahmed M. A.; El-Saka, H. A. A.) Numerical methods for multi-term fractional (arbitrary) orders differential equations. (English summary) **2005i:65094**

El-Saka, H. A. A. *see* **El-Mesiry, A. E. M. et al., 2005i:65094**

El-Sayed, Ahmed M. A. *see* **El-Mesiry, A. E. M. et al., 2005i:65094**

Erdmann, K. *see* **Schmitt, Bernhard A. et al., 2005k:65123**

Eriksson, Kenneth (*with* Johnson, Claes; Logg, Anders) Explicit time-stepping for stiff ODEs. (English summary) **2005c:65052**

Fatokun, J. O. Power series collocation methods of several orders for initial value problems. (English summary) **2005h:65097**

Fiagbedzi, Yawvi A. Finite-dimensional approximation of neutral systems with v_0-stable root chains. (English summary) **2005b:65074**

Filatov, O. P. Euler's integral method for Carathéodory differential equations. (Russian. English and Russian summaries) **2005m:65126**

Filippov, A. F. *see* **Zolotarëva, N. D., 2005c:65058**

Filippov, S. S. *ABC*-schemes for stiff systems of ordinary differential equations. (Russian)

Fukunaga, Masataka A difference method for initial value problems for ordinary fractional differential equations. II. (English summary) **2005b:65075**

Fung, T. C. Construction of higher-order accurate time-step integration algorithms by equal-order polynomial projection. (English summary) **2005j:65066**

Gámez, D. (*with* Garralda Guillem, Ana Isabel; Ruiz Galán, Manuel) Linear initial-value problems countably determined. (English summary)

Gao, Feng[6] (*with* Wang, Ren Hong) Some 2-regularity methods for initial value problems of first-order ODEs. (Chinese. English and Chinese summaries)

Garralda Guillem, Ana Isabel *see* **Gámez, D. et al.**

Garrappa, Roberto An analysis of convergence for two-stage waveform relaxation methods. (English summary) **2005d:65099**

Grimm, Volker Karl Richard On error bounds for the Gautschi-type exponential integrator applied to oscillatory second-order differential equations. (English summary) **2005j:65067**

Grüne, Lars Attraction rates, robustness, and discretization of attractors. (English summary) **2005e:65084**

Gul, M. N. A particular *P*-stable, variable-step explicit method for discretizing special second-order initial value problems. (English summary)

Gustafsson, Bertil (*with* Kress, Wendy) Deferred correction methods for initial value problems. (English summary) **2005c:65053**

Hagen, Aaron Hyperbolic trajectories of time discretizations. (English summary) **2005g:65099**

Hayes, Wayne B. (*with* Jackson, Kenneth R.) A survey of shadowing methods for numerical solutions of ordinary differential equations. (English summary) **2005m:65127**

Hill, Adrian T. Multistep approximation of linear sectorial evolution equations. (English summary) **2005i:65095**

Hofstätter, H. *see* **Auzinger, W. et al., 2005h:65096**

Hojjati, G. (*with* Rahimi Ardabili, M. Y.; Hosseini, S. Mohammad) A-EBDF: an adaptive method for numerical solution of stiff systems of ODEs. (English summary) **2005c:65054**

Hosseini, S. Mohammad *see* **Hojjati, G. et al., 2005c:65054**

Hosseini Aliabadi, M. M. Numerical solution of ordinary differential equations with impulse solution. (English summary) **2005i:65096**

Hynick, A. M. (*with* Keast, P.; Muir, P. H.) Pulse detection software for initial value ODEs. (English summary) **2005j:65068**

Iavernaro, Felice (*with* Mazzia, Francesca; Trigiante, Donato) On the discrete nature of physical laws. (English summary) **2005k:65118**

Ibragimov, V. R. The forward jumping methods. (English summary) **2005g:65100**

Ikhile, M. N. O. Coefficients for studying one-step rational schemes for IVPs in ODEs. III. Extrapolation methods. (English summary) **2005f:65083**

Insperger, Tamás (*with* Stépán, Gábor) Updated semi-discretization method for periodic delay-differential equations with discrete delay. (English summary) **2005e:65085**

Iserles, Arieh On the method of Neumann series for highly oscillatory equations. (English summary) **2005g:65101**

Ismail, G. A. F. Modified technique for solving advance-delay differential systems. (English summary) **2005m:65128**

Jackiewicz, Z. *see* **Butcher, John C., 2005i:65093**

Jackson, Kenneth R. *see* **Hayes, Wayne B., 2005m:65127**

Jahnke, Tobias Long-time-step integrators for almost-adiabatic quantum dynamics. (English summary) **2005h:65098**

Jin, Xiao-Qing (*with* Lei, Siu-Long; Wei, Yi Min) Circulant preconditioners for solving differential equations with multidelays. (English summary) **2005f:65084**

— (*with* Sin, Vai-kuong; Song, Li-li) Circulant preconditioned WR-BVM methods for ODE systems. (English summary) **2005c:65055**

Johnson, Claes *see* **Eriksson, Kenneth et al., 2005c:65052**

Keast, P. *see* **Hynick, A. M. et al., 2005j:65068**

Kirlinger, Gabriela On the convergence of backward differentiation formulas for stiff initial value problems. (English summary) **2005e:65086**

Kopylov, A. V. (*with* Kuznetsov, E. B.) The best parameterization of initial value problem for mixed difference-differential equation. (English summary) (*see* **2005c:00015**)

Krasnikov, S. D. *see* **Kuznetsov, E. B., (2005c:00015)**

Kress, Wendy *see* **Gustafsson, Bertil, 2005c:65053**

Kreuzer, Wolfgang[2] *see* **Auzinger, W. et al., 2005h:65096**

Kuznetsov, E. B. (*with* Krasnikov, S. D.) To numerical solution of singular perturbed equations transformed to the best argument. (English summary) (*see* **2005c:00015**)

— *see also* **Kopylov, A. V., (2005c:00015)**

Lebedev, V. I. Extremal polynomials, pseudo-difference operators, and stable explicit schemes for the solution of stiff nonstationary problems of mathematical physics. (*see* **2005i:65006**)

Le Cong Loi *see* **Pham Ky Anh et al., 2005d:65103**

Lei, Siu-Long *see* **Jin, Xiao-Qing et al., 2005f:65084**

Leimkuhler, B. *see* **Arponen, Teijo, 2005h:65095**

Li, Qiang *see* **Zhang, Chao Yan et al.**

Li, Qinghong (*with* Wu, Xinyuan) Two-step explicit *P*-stable method for periodic IVPs. (English and Chinese summaries) **2005d:65100**

— (*with* Luo, Liangsheng; Wu, Xinyuan) A two-step explicit method for a class of linear periodic initial value problems. (English summary) **2005d:65101**

Li, Shou Fu *see* **Wang, Wen Qiang, 2005m:65130**

Li, Wen-Run *see* **Tang, Chen et al., 2005d:65105**

Lin, Ping[1] (*with* O'Malley, Robert E., Jr.) The numerical solution of a challenging class of turning point problems. (English summary) **2005d:65102**

Liu, Fa Wang *see* **Shen, Shu Jun, 2005g:65105**

Liu, Ming *see* **Tang, Chen et al., 2005d:65105** *and* **Yan, Hai Qing et al., 2005m:65131**

Liu, Ming Zhu *see* **Xu, Yang[2] et al., 2005h:65103**

Logg, Anders *see* **Eriksson, Kenneth et al., 2005c:65052**

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Luo, Liangsheng *see* **Li, Qinghong et al., 2005d:65101**

Magherini, Cecilia *see* **Brugnano, Luigi, 2005m:65125**

Marciniak, Andrzej Implicit interval methods for solving the initial value problem. (English summary)

Marfurt, Marco (*with* Urbani, Anna Melania) An A-stable local extrapolation method of order four. (English summary)

Mattheij, Robert M. M. *see* **Tasić, Bratislav, 2005h:65102** *and* **2005m:65129**

Mazzia, Francesca *see* **Iavernaro, Felice et al., 2005k:65118**

McLaren, D. I. (*with* Quispel, G. Reinout W.) Integral-preserving integrators. (English summary) **2005g:65102**

Mezzino, Michael J. Jr. Numerical solutions of ordinary differential equations. (English summary)

Minion, Michael L. Semi-implicit spectral deferred correction methods for ordinary differential equations. (English summary) **2005f:65085**

Mohamed, Samir T. *see* **Abd-El-Naby, M. A. et al., 2005i:65092**

Muir, P. H. *see* **Hynick, A. M. et al., 2005j:65068**

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O'Malley, Robert E., Jr. *see* **Lin, Ping[1], 2005d:65102**

bin Omar, Zurni Parallel 2-point implicit block method for solving higher order ordinary differential equations directly. (English summary)

Ouansafi, A. *see* **Dubeau, François et al., 2005b:65073**

Palacián, Jesús F. Integration of perturbed initial value problems through reduction theory. (English summary) **2005k:65119**

Pan, Jian-Yu (*with* Bai, Zhong Zhi) On the convergence of waveform relaxation methods for linear initial value problems. (English summary) **2005e:65087**

— (*with* Bai, Zhong Zhi; Ng, Michael K.) Two-step waveform relaxation methods for implicit linear initial value problems. (English summary) **2005j:65069**

— *see also* **Bai, Zhong Zhi et al., 2005j:65064**

Paternoster, Beatrice Two step Runge-Kutta-Nyström methods for oscillatory problems based on mixed polynomials. (English summary) (*see* **2005c:00015**)

Pham Ky Anh (*with* Nguyễn Hữ'u Du'; Le Cong Loi) Connections between implicit difference equations and differential-algebraic equations. (English summary) **2005d:65103**

Podhaisky, H. (*with* Weiner, Rüdiger; Schmitt, Bernhard A.) Rosenbrock-type 'peer' two-step methods. (English summary) **2005k:65120**

Podisuk, Maitree (*with* Sanprasert, Wannaporn) Numerical integration formulas for solving the initial value problem of ordinary differential equations. (English summary)
Popescu-Bodorin, N. Implicit moments matching through Krylov subspaces projections methods. Lanczos methods. (English and Romanian summaries) **2005h:65099**
Psihoyios, G. A class of implicit advanced step-point methods with a parallel feature for the solution of stiff initial value problems. (English summary) **2005k:65121**
— (*with* Simos, T. E.) A fourth algebraic order trigonometrically fitted predictor-corrector scheme for IVPs with oscillating solutions. (English summary) **2005k:65122**
Quispel, G. Reinout W. *see* **McLaren, D. I., 2005g:65102**
Rahimi Ardabili, M. Y. *see* **Hojjati, G. et al., 2005c:65054**
Ramadan, Mohamed A. *see* **Abd-El-Naby, M. A. et al., 2005i:65092**
Ramos, J. I. Non-standard, explicit integration algorithms based on linearization for nonlinear dynamic response analysis. (English summary) **2005h:65100**
— Linearization techniques for singular initial-value problems of ordinary differential equations. (English summary) **2005h:65101**
Ranđelović, B. M. (*with* Stefanović, L. V.; Danković, B. M.) Numerical solution of impulsive differential equations. (English summary) **2005c:65056**
Rodríguez, Miguel Angel[2] (*with* Winternitz, Pavel) Lie symmetries and exact solutions of first-order difference schemes. (English summary) **2005g:65103**
Ruiz Galán, Manuel *see* **Gámez, D. et al.**
Sakas, D. P. (*with* Simos, T. E.) Multiderivative methods of eighth algebraic order with minimal phase-lag for the numerical solution of the radial Schrödinger equation. (English summary)
Sakat, A. *see* **Dubeau, François et al., 2005b:65073**
Sanprasert, Wannaporn *see* **Podisuk, Maitree**
Schmitt, Bernhard A. (*with* Weiner, Rüdiger) Parallel two-step W-methods with peer variables. (English summary) **2005d:65104**
— (*with* Weiner, Rüdiger; Erdmann, K.) Implicit parallel peer methods for stiff initial value problems. (English summary) **2005k:65123**
— *see also* **Podhaisky, H. et al., 2005k:65120**
Secrieru, Ivan La stabilité des méthodes aux différences. (French summary) [The stability of difference methods] **2005g:65104**
Serghini Mounim, Abdellatif (*with* de Dormale, Bernard M.) A note on Mickens' finite-difference scheme for the Lotka-Volterra system. (English summary)
Shen, Shu Jun (*with* Liu, Fa Wang) A computationally effective numerical method for the fractional-order Bagley-Torvik equation. (Chinese. English and Chinese summaries) **2005g:65105**
Simos, T. E. *see* **Psihoyios, G., 2005k:65122** *and* **Sakas, D. P.**
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Tang, Chen (*with* Yan, Hai Qing; Zhang, Hao; Li, Wen-Run; Liu, Ming; Zhang, Gui Min) New predictor-corrector methods based on exponential time differencing for systems of nonlinear differential equations. (English summary) **2005d:65105**
— *see also* **Yan, Hai Qing et al., 2005m:65131**
Tasić, Bratislav (*with* Mattheij, Robert M. M.) An explicit method for solving flows of ODE. (English summary) **2005h:65102**
— (*with* Mattheij, Robert M. M.) Explicitly solving vectorial ODEs. (English summary) **2005m:65129**
Thuraisingham, R. A. A novel method to determine the time series of a second-order chemical reaction in the unstable region of the Euler scheme. (English summary) **2005e:65088**
Tian, Hongjiong Numerical and analytic dissipativity of the θ-method for delay differential equations with a bounded variable lag. (English summary) **2005d:65106**
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Urbani, Anna Melania *see* **Marfurt, Marco**
Vogt, Werner Numerical simulation of nonlinear circuits—periodic and quasi-periodic responses. (English summary) **2005e:65089**
Volkov-Bogorodsky, D. B. *see* **Danilin, A. N. et al., 2005d:65098**
Wang, Ren Hong *see* **Gao, Feng[6]**
Wang, Wen Qiang (*with* Li, Shou Fu) D-convergence of one-leg methods for nonlinear stiff delay differential equations with a variable delay. (Chinese. English summary) **2005m:65130**
Wei, Yi Min *see* **Jin, Xiao-Qing et al., 2005f:65084**
Weiner, Rüdiger *see* **Schmitt, Bernhard A. et al., 2005d:65104; 2005k:65123** *and* **Podhaisky, H. et al., 2005k:65120**
Weinmüller, E. *see* **Auzinger, W. et al., 2005h:65096**
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Wright, William *see* **Butcher, John C., 2005d:65097**
Wu, Xinyuan *see* **Li, Qinghong et al., 2005d:65100** *and* **2005d:65101**
Xu, Yang[2] (*with* Liu, Ming Zhu) $\mathscr{R}$-stability of linear θ-method with general variable stepsize for system of pantograph equations with two delay terms. (English summary) **2005h:65103**
— (*with* Zhao, Jing Jun; Liu, Ming Zhu) Asymptotic stability of implicit block θ-method for linear delay differential-algebraic equations. (Chinese. English summary)
Yan, Hai Qing (*with* Tang, Chen; Liu, Ming; Zhang, Gui Min) An arbitrary-order explicit precise time integration method for stiff equations. (Chinese. English and Chinese summaries) **2005m:65131**
— *see also* **Tang, Chen et al., 2005d:65105**
Yu, Dong Won The generalized Euler process for exponentially dominant systems. (English summary) **2005c:65057**
Yuan, Dong Jing On the convergence of the discretized parallel chaotic waveform relaxation method. (English summary) **2005a:65062**
Zhang, Chao Yan (*with* Lü, Xian Rui; Li, Qiang) Parallel algorithm for a nonlinear dynamical equation. (Chinese. English and Chinese summaries)
Zhang, Cheng-jian (*with* Sun, Geng) Boundedness and asymptotic stability of multistep methods for generalized pantograph equations. (English summary) **2005d:65107**
Zhang, Gui Min *see* **Tang, Chen et al., 2005d:65105** *and* **Yan, Hai Qing et al., 2005m:65131**
Zhang, Hao *see* **Tang, Chen et al., 2005d:65105**
Zhao, Jing Jun *see* **Xu, Yang[2] et al.**
Zhao, Shuang Suo Consistency- and convergence-order of linear multistep methods with a parameter for solving initial value problems of $y'' = g(x, y)$. (Chinese. English summary) **2005g:65106**
Zhong, Wan Xie On precise integration method. (English summary) **2005a:65063**
Zolotarëva, N. D. (*with* Filippov, A. F.) An estimate for local and global errors in the Störmer method for a system of equations. (Russian. Russian summary) **2005c:65058**

Items with secondary classifications in 65L05

Adee, S. O. (*with* Onumanyi, P.; Sirisena, U. W.; Yahaya, Y. A.) Note on starting the Numerov method more accurately by a hybrid formula of order four for an initial—value problem. (English summary) **2005h:65114**
Aguirre, Luis A. *see* **Letellier, Christophe et al., 2005f:39036**
Alaoui, Aziz *see* **Letellier, Christophe et al., 2005f:39036**
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Bergamaschi, Luca *see* **Caliari, Marco et al., 2005k:65190**
Beyn, Wolf-Jürgen *see* **Zou, Yongkui, 2005h:37051**
Borodachëv, L. V. (*with* Mingalëv, I. V.; Mingalëv, O. V.) A drift algorithm for the motion of a particle in the Darwin model of a plasma. (Russian. Russian summary) **2005b:82091**
Bourchtein, Andrei (*with* Naumov, Maxim) Dependence of the stability of semi-implicit atmospheric models on reference temperature profile. (English summary) **2005g:86013**
Brugnano, Luigi (*with* Magherini, Cecilia) The BiM code for the numerical solution of ODEs. (English summary) **2005d:65108**
Bui, Q. V. Modified Newmark family for non-linear dynamic analysis. (English summary) **2005f:70002**
Butcher, John C. (*with* Rattenbury, Nicolette) ARK methods for stiff problems. (English summary) **2005m:65133**
Caliari, Marco (*with* Vianello, Marco; Bergamaschi, Luca) Interpolating discrete advection-diffusion propagators at Leja sequences. (English summary) **2005k:65190**
Carothers, David C. (*with* Parker, G. Edgar; Sochacki, James S.; Warne, Paul G.) Some properties of solutions to polynomial systems of differential equations. (English summary) **2005k:34017**
Chen, Chuan Miao *see* **Li, Tian Ran, 2005k:65154**
Costabile, F. A. A survey of pseudo Runge-Kutta methods. (English summary) **2005g:65108**
— (*with* Napoli, Anna R.) Stability of Chebyshev collocation methods. (English summary) **2005h:65119**
Csillik, Iharka *see* **Szenkovits, Ferenc et al., 2005h:70003**
Delgado-Lezama, Rodolfo *see* **Santillán, Moisés et al., 2005a:92015**
Diethelm, Kai (*with* Ford, Neville J.) Multi-order fractional differential equations and their numerical solution. (English summary) **2005h:34006**
— (*with* Weilbeer, Marc) A numerical approach for Joulin's model of a point source initiated flame. (English summary) **2005b:80013**
— Monotonicity results for a compound quadrature method for finite-part integrals. (English summary) **2005f:41077**
Elaydi, Saber N. *see* **Letellier, Christophe et al., 2005f:39036**
Ford, Neville J. *see* **Diethelm, Kai, 2005h:34006**
Gallivan, K. (*with* Vandendorpe, A.; Van Dooren, Paul) Sylvester equations and projection-based model reduction. (English summary) **2005g:93021**
Gan, Si-qing (*with* Zheng, Wei Min) Stability of general linear methods for systems of functional-differential and functional equations. (English summary) **2005m:65150**
— *see also* **Xiao, Ai-Guo, 2005m:65145**
Gumel, A. B. (*with* Moghadas, S. M.; Mickens, Ronald E.) Effect of a preventive vaccine on the dynamics of HIV transmission. (English summary) **2005f:34135**
Hernández-Pérez, Ricardo *see* **Santillán, Moisés et al., 2005a:92015**
Horváth, Zoltán[2] On the positivity of matrix-vector products. (English summary) **2005m:15055**
in 't Hout, K. J. (*with* Zubik-Kowal, Barbara) The stability of Radau IIA collocation processes for delay differential equations. (English summary) **2005m:65138**
Huang, Hung-Tsai (*with* Li, Zi-Cai) Blending curves for landing problems by numerical differential equations. III. Separation techniques. (English summary) **2005j:65016**
Janssen, Micha (*with* Van Hentenryck, Pascal) Precisely $A(\alpha)$-stable one-leg multistep methods. (English summary) **2005d:65113**
Kaper, H. G. *see* **Zagaris, A. et al., 2005e:37199**
Kaper, Tasso J. *see* **Zagaris, A. et al., 2005e:37199**
Kirlinger, Gabriela Linear multistep methods applied to stiff initial value problems—a survey. (English summary) **2005k:65129**
Kofman, Ernesto Discrete event simulation of hybrid systems. (English summary) **2005i:93058**
Kulikov, G. Yu. (*with* Merkulov, Arkadiĭ Igorevich) On one-step collocation methods with higher derivatives for solving ordinary differential equations. (Russian. Russian summary) **2005k:65153**
Letellier, Christophe (*with* Elaydi, Saber N.; Aguirre, Luis A.; Alaoui, Aziz) Difference equations versus differential equations, a possible equivalence for the Rössler system? (English summary) **2005f:39036**
Li, Ming-Chia Qualitative property between flows and numerical methods. (English summary) **2005g:37161**
Li, Shou Fu *see* **Wang, Wen Qiang, 2005m:65151** *and* **Yu, Yue Xin, 2005m:65152**
Li, Tian Ran (*with* Chen, Chuan Miao) Superconvergence of C^0-continuous finite elements in solving an initial value problem for an ordinary differential equation of second order. (Chinese. English and Chinese summaries) **2005k:65154**
Li, Zi-Cai *see* **Huang, Hung-Tsai, 2005j:65016**
Lin, Wan Tao *see* **Mo, Jia Qi et al.**
Liu, Ming Zhu *see* **Xu, Yang[2], 2005k:65135**
Magherini, Cecilia *see* **Brugnano, Luigi, 2005d:65108**

Makó, Zoltán *see* **Szenkovits, Ferenc et al., 2005h:70003**
Mastroserio, C. (*with* Politi, T.) Applying stabilization techniques to orthogonal gradient flows. (English summary) (*see* **2005c:00015**)
Merkulov, Arkadiĭ Igorevich *see* **Kulikov, G. Yu., 2005k:65153**
Mickens, Ronald E. *see* **Gumel, A. B. et al., 2005f:34135**
Milišić, Vuk (*with* Quarteroni, Alfio) Analysis of lumped parameter models for blood flow simulations and their relation with 1D models. (English summary) **2005e:76095**
Mingalëv, I. V. *see* **Borodachëv, L. V. et al., 2005b:82091**
Mingalëv, O. V. *see* **Borodachëv, L. V. et al., 2005b:82091**
Mo, Jia Qi (*with* Lin, Wan Tao; Zhu, Jiang[3]) A variational iteration method for studying the ENSO mechanism. (English summary)
Moghadas, S. M. *see* **Gumel, A. B. et al., 2005f:34135**
Napoli, Anna R. *see* **Costabile, F. A., 2005h:65119**
Naumov, Maxim *see* **Bourchtein, Andrei, 2005g:86013**
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Podhaisky, H. *see* **Weiner, Rüdiger et al., 2005b:65103**
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Ramos, Higinio *see* **Vigo-Aguiar, Jesús**
Rattenbury, Nicolette *see* **Butcher, John C., 2005m:65133**
Rebeleș, Magnolia A matrix method for obtaining the spline collocation function. (English summary) **2005m:65153**
Santillán, Moisés (*with* Hernández-Pérez, Ricardo; Delgado-Lezama, Rodolfo) A numeric study of the noise-induced tremor in a mathematical model of the stretch reflex. (English summary) **2005a:92015**
Schmitt, Bernhard A. *see* **Weiner, Rüdiger et al., 2005b:65103**
Sharp, P. W. Comparisons of integrators on a diverse collection of restricted three-body test problems. (English summary) **2005g:70018**
Simos, T. E. *see* **Williams, P. S., 2005a:65068**
Sirisena, U. W. *see* **Adee, S. O. et al., 2005h:65114**
Sochacki, James S. *see* **Carothers, David C. et al., 2005k:34017**
Soheili, Ali Reza Numerical approximating of two component Becker-Döring equations. (English summary) **2005a:82103**
Szenkovits, Ferenc (*with* Makó, Zoltán; Csillik, Iharka; Bálint, Attila) ★ Mechanikai rendszerek számítógépes modellezése. (Hungarian. English and Hungarian summaries) [Computer modelling of mechanical systems] **2005h:70003**
Thalhammer, Mechthild On the convergence behaviour of variable stepsize multistep methods for singularly perturbed problems. (English summary) **2005h:65118**
Tournès, Dominique Intégration numérique des équations différentielles: influence des instruments et des pratiques de calcul. [Numerical integration of differential equations: influence of computational tools and practice] **2005d:65005**
Vandendorpe, A. *see* **Gallivan, K. et al., 2005g:93021**
Van Dooren, Paul *see* **Gallivan, K. et al., 2005g:93021**
Van Hentenryck, Pascal *see* **Janssen, Micha, 2005d:65113**
Vianello, Marco *see* **Caliari, Marco et al., 2005k:65190**
Vigo-Aguiar, Jesús (*with* Ramos, Higinio) A variable-step Numerov method for the numerical solution of the Schrödinger equation. (English summary)
Viswanath, Divakar The fractal property of the Lorenz attractor. (English summary) **2005a:37057**
Wang, Meng Fu (*with* Au, F. T. K.) Higher-order mixed method for time integration in dynamic structural analysis.
Wang, Wen Qiang (*with* Li, Shou Fu) Nonlinear stability of one-leg θ-methods for delay differential equations. (Chinese. English and Chinese summaries) **2005m:65151**
Warne, Paul G. *see* **Carothers, David C. et al., 2005k:34017**
Weibeer, Marc *see* **Diethelm, Kai, 2005b:80013**
Weiner, Rüdiger (*with* Schmitt, Bernhard A.; Podhaisky, H.) Parallel 'Peer' two-step W-methods and their application to MOL-systems. (English summary) **2005b:65103**
Williams, P. S. (*with* Simos, T. E.) A new family of exponentially fitted methods. (English summary) **2005a:65068**
Xiao, Ai-Guo (*with* Gan, Si-qing) Characterizations of symmetric multistep Runge-Kutta methods. (English summary) **2005m:65145**
Xu, Yang[2] (*with* Liu, Ming Zhu) Stability analysis of stiffly accurate Runge-Kutta methods for a system of pantograph equations. (Chinese. English and Chinese summaries) **2005k:65135**
Yahaya, Y. A. *see* **Adee, S. O. et al., 2005h:65114**
Yu, Yue Xin (*with* Li, Shou Fu) Nonlinear stability of one-leg methods for delay differential equations. (Chinese. English and Chinese summaries) **2005m:65152**
Zagaris, A. (*with* Kaper, H. G.; Kaper, Tasso J.) Analysis of the computational singular perturbation reduction method for chemical kinetics. (English summary) **2005e:37199**
Zheng, Wei Min *see* **Gan, Si-qing, 2005m:65150**
Zhu, Jiang[3] *see* **Mo, Jia Qi et al.**
Zou, Yongkui (*with* Beyn, Wolf-Jürgen) On the existence of transversal heteroclinic orbits in discretized dynamical systems. (English summary) **2005h:37051**
Zubik-Kowal, Barbara *see* **in 't Hout, K. J., 2005m:65138**

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Abbasbandy, S. (*with* Allah Viranloo, Tofigh) Numerical solution of fuzzy differential equation by Runge-Kutta method. (English summary) **2005b:65076**
Adee, S. O. *see* **Odekunle, M. R. et al., 2005e:65093**
Ademiluyi, R. A. (*with* Babatola, P. O.; Kayode, S. J.) A new class of implicit rational Runge-Kutta methods for the integration of stiff ordinary differential equations. (English summary) **2005h:65104**
— *see also* **Odekunle, M. R. et al., 2005e:65093**
Allah Viranloo, Tofigh *see* **Abbasbandy, S., 2005b:65076**
Alonso-Mallo, Isaías (*with* Cano, B.; Moreta, M. J.) Order reduction and how to avoid it when explicit Runge-Kutta-Nyström methods are used to solve linear partial differential equations. (English summary) **2005j:65070**
Alvarez, Jorge (*with* Rojo, Jesús) An improved class of generalized Runge-Kutta-Nyström methods for special second-order differential equations. (English summary) **2005a:65064**
Anastassi, Z. A. (*with* Simos, T. E.) Special optimized Runge-Kutta methods for IVPs with oscillating solutions. (English summary) **2005g:65107**
— (*with* Simos, T. E.) An optimized Runge-Kutta method for the solution of orbital problems. (English summary)
Babatola, P. O. *see* **Ademiluyi, R. A. et al., 2005h:65104**
Bartoszewski, Z. (*with* Jackiewicz, Z.) Nordsieck representation of two-step Runge-Kutta methods for ordinary differential equations. (English summary) **2005k:65124**
Bertaccini, Daniele (*with* Wen, You-Wei; Ng, Michael K.) The eigenvalues of preconditioned matrices for linear multistep formulas in boundary value form. (English summary) **2005m:65132**
Bozeman, Robert *see* **Wu, De Ting, (2005m:00008)**
Brugnano, Luigi (*with* Magherini, Cecilia) The BiM code for the numerical solution of ODEs. (English summary) **2005d:65108**
Butcher, John C. (*with* Jackiewicz, Z.) Construction of general linear methods with Runge-Kutta stability properties. (English summary) **2005b:65077**
— (*with* Rattenbury, Nicolette) ARK methods for stiff problems. (English summary) **2005m:65133**
Büttner, Jörg (*with* Simeon, Bernd) Time integration of the dual problem of elastoplasticity by Runge-Kutta methods. (English summary) **2005e:65090**
Calvo, Mari Paz (*with* Portillo, A.) Are high order variable step equistage initializers better than standard starting algorithms? (English summary) **2005c:65059**
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Cano, B. *see* **Alonso-Mallo, Isaías et al., 2005j:65070**
Cao, Wan Rong *see* **Zhao, Jing Jun et al., 2005d:65115**
Cao, Yang[2] (*with* Petzold, Linda R.) A posteriori error estimation and global error control for ordinary differential equations by the adjoint method. (English summary) **2005m:65135**
Carpentieri, M. (*with* Paternoster, Beatrice) Stability regions of one step mixed collocation methods for $y'' = f(x, y)$. (English summary) **2005m:65136**
Casas, Fernando (*with* Owren, B.) Cost efficient Lie group integrators in the RKMK class. (English summary) **2005f:65086**
Chang, Qian Shun *see* **Huang, Cheng Ming[2], 2005m:65139**
Coroian, Iulian New stable semi-explicit Runge-Kutta methods. (English summary) **2005d:65109**
Costabile, F. A. A survey of pseudo Runge-Kutta methods. (English summary) **2005g:65108**
Criado, R. *see* **Vigo-Aguiar, Jesús et al.**
Debrabant, K. (*with* Strehmel, Karl) Convergence of Runge-Kutta methods applied to linear partial differential-algebraic equations. (English summary) **2005k:65125**
Del Buono, Nicoletta (*with* Lopez, Luciano) Runge-Kutta type methods based on geodesics for systems of ODEs on the Stiefel manifold. (English summary) **2005e:65091**
Diethelm, Kai (*with* Ford, Neville J.; Freed, Alan D.) Detailed error analysis for a fractional Adams method. (English summary) **2005d:65110**
Ding, Xiao Hua (*with* Liu, Ming Zhu) Convergence of parallel diagonal iteration of Runge-Kutta methods for delay differential equations. (English summary) **2005g:65109**
Famelis, I. Th. (*with* Papakostas, S. N.; Tsitouras, Ch.) Symbolic derivation of Runge-Kutta order conditions. (English summary) **2005e:65092**
Ferracina, L. (*with* Spijker, M. N.) Stepsize restrictions for the total-variation-diminishing property in general Runge-Kutta methods. (English summary) **2005k:65126**
— (*with* Spijker, M. N.) Stepsize restrictions for total-variation-boundedness in general Runge-Kutta procedures. (English summary) **2005k:65127**
— (*with* Spijker, M. N.) An extension and analysis of the Shu-Osher representation of Runge-Kutta methods. (English summary) **2005g:65110**
Ford, Neville J. *see* **Diethelm, Kai et al., 2005d:65110**
Franco, J. M. Runge-Kutta methods adapted to the numerical integration of oscillatory problems. (English summary) **2005c:65060**
— Exponentially fitted explicit Runge-Kutta-Nyström methods. (English summary) **2005b:65078**
— Stability of explicit ARKN methods for perturbed oscillators. (English summary) **2005h:65105**
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Gerisch, Alf *see* **Calvo, Mari Paz, 2005m:65134**
González-Pinto, S. (*with* Montijano, Juan I.; Pérez-Rodríguez, S.) Two-step error estimators for implicit Runge-Kutta methods applied to stiff systems. (English summary) **2005f:65087**
— (*with* Hernández-Abreu, D.) Stable Runge-Kutta integrations for differential systems with semi-stable equilibria. (English summary) **2005d:65111**
Guo, Qian *see* **Tian, Hongjiong, 2005a:65067**
Hernández-Abreu, D. *see* **González-Pinto, S., 2005d:65111**
Higueras Sanz, Immaculada (*with* Roldán, T.) Starting algorithms for partitioned Runge-Kutta methods: the pair Lobatto IIIA-IIIB. (English summary) **2005i:65097**
— On strong stability preserving time discretization methods. (English summary) **2005d:65112**
Hon, Yiu-Chung *see* **Wong, A. S. M., (2005i:00016)**
Horváth, Zoltán[2] On the positivity step size threshold of Runge-Kutta methods. (English summary) **2005m:65137**
in 't Hout, K. J. (*with* Zubik-Kowal, Barbara) The stability of Radau IIA collocation processes for delay differential equations. (English summary) **2005m:65138**
Huang, Cheng Ming[2] (*with* Chang, Qian Shun) Dissipativity of multistep Runge-Kutta methods for dynamical systems with delays. (English summary) **2005m:65139**
Hundsdorfer, Willem *see* **Ruuth, Steven J., 2005m:65143**
Ibijola, E. A. (*with* Imoni, S. O.) A non-linear method for the numerical solution of ordinary differential equations. (English summary)
Imoni, S. O. *see* **Ibijola, E. A.**

Jackiewicz, Z. *see* **Butcher, John C., 2005b:65077** *and* **Bartoszewski, Z., 2005k:65124**
Janssen, Micha (*with* Van Hentenryck, Pascal) Precisely $A(\alpha)$-stable one-leg multistep methods. (English summary) **2005d:65113**
Kanapady, Ramdev (*with* Tamma, Kumar K.) An integrated design of generalized single step LMS time operators for nonlinear structural dynamics. (English summary)
Kayode, S. J. *see* **Ademiluyi, R. A. et al., 2005h:65104**
Kirlinger, Gabriela Linear multistep methods applied to stiff initial value problems—a survey. (English summary) **2005k:65129**
Koikari, S. Rooted tree analysis of Runge-Kutta methods with exact treatment of linear terms. (English summary) **2005k:65130**
Kulikov, G. Yu. (*with* Shindin, S. K.) An advanced version of local-global step size control for multistep methods. (English summary) (*see* **2005i:65006**)
— (*with* Shindin, S. K.) Extrapolated multistep methods and local-global step size control. (English summary) (*see* **2005c:00014**)
— (*with* Shindin, S. K.) On the efficient computation of asymptotically sharp estimates for local and global errors in multistep methods with constant coefficients. (Russian. Russian summary) **2005k:65131**
Kværnø, A. Singly diagonally implicit Runge-Kutta methods with an explicit first stage. (English summary) **2005g:65111**
Lascsáková, Marcela (*with* Penjak, Vladimir) Numerical experiment with the embedded Runge-Kuta formulae of the 6th order to the 5th order. (English summary)
Li, Dong Song (*with* Liu, Ming Zhu) Runge-Kutta methods for the multi-pantograph delay equation. (English summary) **2005j:65071**
Li, Shou Fu B-theory of general linear methods for Volterra functional differential equations. (English summary) **2005m:65140**
— *see also* **Yu, Yue Xin**
Liu, Ming *see* **Tang, Chen et al.**
Liu, Ming Zhu (*with* Song, Ming Hui; Yang, Zhanwen) Stability of Runge-Kutta methods in the numerical solution of equation $u'(t) = au(t) + a_0u([t])$. (English summary) **2005g:65112**
— *see also* **Zhao, Jing Jun et al., 2005d:65115**; **Ding, Xiao Hua, 2005g:65109**; **Xu, Yang[2] et al., 2005h:65106**; **2005k:65135** *and* **Li, Dong Song, 2005j:65071**
Lopez, Luciano *see* **Del Buono, Nicoletta, 2005e:65091**
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Magherini, Cecilia *see* **Brugnano, Luigi, 2005d:65108**
Makazaga, J. (*with* Murua, Ander) New Runge-Kutta based schemes for ODEs with cheap global error estimation. (English summary) **2005f:65088**
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Moir, Nicolette ARK methods: some recent developments. (English summary)
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Murua, Ander *see* **Makazaga, J., 2005f:65088**
Ng, Michael K. *see* **Bertaccini, Daniele et al., 2005m:65132**
Odekunle, M. R. (*with* Oye, N. D.; Adee, S. O.; Ademiluyi, R. A.) A class of inverse Runge-Kutta schemes for the numerical integration of singular problems. (English summary) **2005e:65093**
Ono, Harumi (*with* Yoshida, Toshinobu) Two-stage explicit Runge-Kutta type methods using derivatives. (English summary) **2005e:65094**
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Papakostas, S. N. *see* **Famelis, I. Th. et al., 2005e:65092**
Pareschi, Lorenzo (*with* Russo, Giovanni) Implicit-explicit Runge-Kutta schemes for stiff systems of differential equations. (English summary) **2005a:65065**
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— *see also* **Carpentieri, M., 2005m:65136**
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Petzold, Linda R. *see* **Cao, Yang[2], 2005m:65135**
Phummark, Somsakun *see* **Podisuk, Maitree**
Pinchukov, V. I. On an implicit adaptive fourth-order Runge-Kutta scheme for the through computation of discontinuous solutions. (Russian) **2005k:65133**
Podisuk, Maitree (*with* Phummark, Somsakun) Newton-Cotes formulas in Runge-Kutta method. (English summary)
Portillo, A. *see* **Calvo, Mari Paz, 2005c:65059**
Psihoyios, G. Some general formulae for the stability function of explicit advanced step-point (EAS) methods. (English summary) **2005m:65141**
Ramos, Higinio (*with* Vigo-Aguiar, Jesús) A note on step-size selection in the Störmer-Cowell methods. (English summary)
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Rojo, Jesús *see* **Alvarez, Jorge, 2005a:65064**
Roldán, T. *see* **Higueras Sanz, Immaculada, 2005i:65097**
Russo, Giovanni *see* **Pareschi, Lorenzo, 2005a:65065**
Ruuth, Steven J. (*with* Spiteri, Raymond J.) High-order strong-stability-preserving Runge-Kutta methods with downwind-biased spatial discretizations. (English summary) **2005m:65142**
— (*with* Hundsdorfer, Willem) High-order linear multistep methods with general monotonicity and boundedness properties. (English summary) **2005m:65143**
Shampine, L. F. Solving ODEs and DDEs with residual control. (English summary)
Shindin, S. K. *see* **Kulikov, G. Yu., 2005k:65131**; **(2005c:00014)** *and* **(2005i:65006)**
Simeon, Bernd *see* **Büttner, Jörg, 2005e:65090** *and* **Lunk, Christoph, 2005k:65132**
Simos, T. E. A trigonometrically-fitted method for long-time integration of orbital problems. (English summary) **2005k:65134**
— *see also* **Anastassi, Z. A., 2005g:65107** *and* **Tselios, Kostas**
Song, Ming Hui *see* **Liu, Ming Zhu et al., 2005g:65112**
Spijker, M. N. *see* **Ferracina, L., 2005g:65110**; **2005k:65126** *and* **2005k:65127**
Spiteri, Raymond J. *see* **Ruuth, Steven J., 2005m:65142**
Strehmel, Karl *see* **Debrabant, K., 2005k:65125**
Sun, Geng *see* **Zhang, Cheng-jian, 2005d:65114**
Tamma, Kumar K. *see* **Kanapady, Ramdev**
Tang, Chen (*with* Yan, Hai Qing; Zhang, Hao; Liu, Ming; Zhang, Gui Min) An arbitrary order implicit multistep exponential time differencing method and its application to nonlinear systems. (Chinese. English and Chinese summaries)
Tian, Hongjiong (*with* Guo, Qian) Dynamics of linear multistep methods for delay differential equations. (English summary) **2005a:65067**
Tselios, Kostas (*with* Simos, T. E.) Runge-Kutta methods with minimal dispersion and dissipation for problems arising from computational acoustics. (English summary)
Tsitouras, Ch. *see* **Famelis, I. Th. et al., 2005e:65092**
Van Hentenryck, Pascal *see* **Janssen, Micha, 2005d:65113**
Vigo-Aguiar, Jesús (*with* Martín-Vaquero, J.; Criado, R.) On the stability of exponential fitting BDF algorithms. (English summary)
— *see also* **Ramos, Higinio**
Voss, D. A. Fourth-order parallel Rosenbrock formulae for stiff systems. (English summary) **2005m:65144**
Wang, Wen Qiang *see* **Xiao, Fei Yan**
Wen, You-Wei *see* **Bertaccini, Daniele et al., 2005m:65132**
Wong, A. S. M. (*with* Hon, Yiu-Chung) Numerical approximations for Thomas-Fermi model using radial basis functions. (English summary) (*see* **2005i:00016**)
Wu, De Ting (*with* Bozeman, Robert) A proof and a PC program for Runge-Kutta method of order 3 of ODE. (English summary) (*see* **2005m:00008**)
Wu, Xinyuan Two-step Runge-Kutta methods of order over five with reduced function evaluations. (English summary)
Xiao, Ai-Guo (*with* Gan, Si-qing) Characterizations of symmetric multistep Runge-Kutta methods. (English summary) **2005m:65145**
Xiao, Fei Yan (*with* Wang, Wen Qiang) Asymptotic stability of Runge-Kutta methods for nonlinear multi-delay differential equations. (Chinese. English and Chinese summaries)
Xu, Yang[2] (*with* Liu, Ming Zhu) Stability analysis of stiffly accurate Runge-Kutta methods for a system of pantograph equations. (Chinese. English and Chinese summaries) **2005k:65135**
— (*with* Zhao, Jing Jun; Liu, Ming Zhu) $\mathscr{H}$-stability of Runge-Kutta methods with variable stepsize for system of pantograph equations. (English summary) **2005h:65106**
— (*with* Liu, Ming Zhu; Zhao, Jing Jun) GP_d—stability of multistep Runge-Kutta method for neutral delay differential equations. (Chinese. English and Chinese summaries)
Yakubu, D. G. Single-step stable implicit Runge-Kutta method based on Lobatto points for ordinary differential equations. (English summary) **2005b:65079**
Yan, Hai Qing *see* **Tang, Chen et al.**
Yang, Zhanwen *see* **Liu, Ming Zhu et al., 2005g:65112**
Yoshida, Toshinobu *see* **Ono, Harumi, 2005e:65094**
Yu, Yue Xin (*with* Li, Shou Fu) Contractivity of implicit Euler method for delay differential equations. (English and Chinese summaries)
Zhang, Cheng-jian (*with* Sun, Geng) Nonlinear stability of Runge-Kutta methods applied to infinite-delay-differential equations. (English summary) **2005d:65114**
Zhang, Gui Min *see* **Tang, Chen et al.**
Zhang, Hao *see* **Tang, Chen et al.**
Zhao, Jing Jun (*with* Cao, Wan Rong; Liu, Ming Zhu) Asymptotic stability of Runge-Kutta methods for the pantograph equations. (English summary) **2005d:65115**
— *see also* **Xu, Yang[2] et al., 2005h:65106**
Zubik-Kowal, Barbara *see* **in 't Hout, K. J., 2005m:65138**

Items with secondary classifications in 65L06

Alonso-Mallo, Isaías (*with* Cano, B.) Avoiding order reduction of Runge-Kutta discretizations for linear time-dependent parabolic problems. (English summary) **2005e:65133**
— (*with* Cano, B.; Jorge, J. C.) Spectral-fractional step Runge-Kutta discretizations for initial boundary value problems with time dependent boundary conditions. (English summary) **2005e:65134**
Amodio, Pierluigi (*with* Iavernaro, Felice; Trigiante, Donato) Symmetric schemes and Hamiltonian perturbations of linear Hamiltonian problems. (English summary) **2005m:65308**
Antohe, V. (*with* Gladwell, Ian) Performance of variable step size methods for solving model separable Hamiltonian systems. (English summary) **2005j:70002**
Auzinger, W. (*with* Hofstätter, H.; Kreuzer, Wolfgang[2]; Weinmüller, E.) Modified defect correction algorithms for ODEs. I. General theory. (English summary) **2005h:65096**
Bibik, Yu. V. (*with* Popov, S. P.) Numerical modeling of soliton solutions of the simplest discrete nonlinear equations and their continuous analogues. (Russian. English and Russian summaries) **2005b:37172**
Bielecki, Andrzej (*with* Ombach, Jerzy) Shadowing property in analysis of neural networks dynamics. (English summary) **2005b:37039**
Brouder, Christian Trees, renormalization and differential equations. (English summary) **2005i:16074**
Bujanda, B. *see* **Portero, L. et al., 2005d:65153**
Butcher, John C. (*with* Wright, William) The construction of practical general linear methods. (English summary) **2005d:65097**
Calvo Pinilla, M. (*with* Franco, J. M.; Rández, Luis) A new minimum storage Runge-Kutta scheme for computational acoustics. (English summary)
— (*with* Jay, Laurent O.; Montijano, Juan I.; Rández, Luis) Approximate compositions of a near identity map by multi-revolution Runge-Kutta methods. (English summary) **2005m:37200**
Cano, B. *see* **Alonso-Mallo, Isaías et al., 2005e:65133** *and* **2005e:65134**
Cash, J. R. (*with* Moore, D. R.) High-order interpolants for solutions of two-point boundary value problems using MIRK methods. (English summary) **2005k:65138**
Chen, Shu Hui *see* **Yang, Cuihong et al., 2005c:34107**
Chryssoverghi, I. (*with* Coletsos, J.; Kokkinis, B.) Approximate gradient projection method with Runge-Kutta schemes for optimal control problems. (English summary) **2005e:49061**
Coletsos, J. *see* **Chryssoverghi, I. et al., 2005e:49061**
Costabile, F. A. (*with* Napoli, Anna R.) Stability of Chebyshev collocation methods. (English summary) **2005h:65119**
E, Wei-nan Analysis of the heterogeneous multiscale method for ordinary differential equations. **2005f:65082**

Franco, J. M. *see* **Calvo Pinilla, M. et al.**
Garay, Barnabas M. (*with* Lóczi, Lajos) Monotone delay equations and Runge-Kutta discretization. (English summary) **2005m:34192**
— A brief survey on the numerical dynamics for functional differential equations. (English summary) **2005m:34193**
Gladwell, Ian *see* **Antohe, V., 2005j:70002**
Gustafsson, Bertil (*with* Kress, Wendy) Deferred correction methods for initial value problems. (English summary) **2005c:65053**
Hairer, Ernst Global modified Hamiltonian for constrained symplectic integrators. (English summary) **2005d:37169**
— (*with* Lubich, Christian) Symmetric multistep methods over long times. (English summary) **2005k:70001**
Hill, Adrian T. Multistep approximation of linear sectorial evolution equations. (English summary) **2005i:65095**
Hochbruck, Marlis (*with* Ostermann, Alexander) Exponential Runge-Kutta methods for parabolic problems. (English summary) **2005m:65195**
Hofstätter, H. *see* **Auzinger, W. et al., 2005h:65096**
Hundsdorfer, Willem *see* **Verwer, Jan G. et al., 2005h:65151**
Iavernaro, Felice *see* **Amodio, Pierluigi et al., 2005m:65308**
Ibragimov, V. R. The forward jumping methods. (English summary) **2005g:65100**
Jay, Laurent O. *see* **Calvo Pinilla, M. et al., 2005m:37200**
Jorge, J. C. *see* **Portero, L. et al., 2005d:65153** *and* **Alonso-Mallo, Isaías et al., 2005e:65134**
Kim, Pilwon (*with* Olver, Peter J.) Geometric integration via multi-space. (English summary) **2005i:34005**
Kokkinis, B. *see* **Chryssoverghi, I. et al., 2005e:49061**
Kress, Wendy *see* **Gustafsson, Bertil, 2005c:65053**
Kreuzer, Wolfgang[2] *see* **Auzinger, W. et al., 2005h:65096**
Li, Shou Fu *see* **Wang, Wan Sheng, 2005g:34197** *and* **Yu, Yue Xin, 2005m:65152**
Li, Wen-Run *see* **Tang, Chen et al., 2005d:65105**
Liu, Ming *see* **Tang, Chen et al., 2005d:65105**
Liu, Ming Zhu *see* **Xu, Yang[2], 2005h:65103**
Lóczi, Lajos *see* **Garay, Barnabas M., 2005m:34192**
Lubich, Christian *see* **Hairer, Ernst, 2005k:70001**
Luo, Xin-long Singly diagonally implicit Runge-Kutta methods combining line search techniques for unconstrained optimization. (English summary) **2005m:90118**
Mattheij, Robert M. M. *see* **Tasić, Bratislav, 2005h:65102**
Montijano, Juan I. *see* **Calvo Pinilla, M. et al., 2005m:37200**
Moore, D. R. *see* **Cash, J. R., 2005k:65138**
Mukharlyamov, R. G. On the construction of systems of differential equations of motion of constrained mechanical systems. (Russian. Russian summary) **2005m:70068**
Napoli, Anna R. *see* **Costabile, F. A., 2005h:65119**
Nemirovskiĭ, Yu. V. (*with* Yankovskiĭ, A. P.) Numerical integration of initial-boundary value problems with large solution gradients by generalized Runge-Kutta methods. (Russian. English, Russian and Ukrainian summaries) **2005m:65196**
Olver, Peter J. *see* **Kim, Pilwon, 2005i:34005**
Ombach, Jerzy *see* **Bielecki, Andrzej, 2005b:37039**
Orel, Bojan Extrapolated Magnus methods. (English summary) **2005d:65237**
Ostermann, Alexander *see* **Hochbruck, Marlis, 2005m:65195**
Palacios, Manuel Partitioned Runge-Kutta methods and redundant orbital problems. (Spanish. Spanish summary) **2005g:70026**
Paternoster, Beatrice Two step Runge-Kutta-Nyström methods for oscillatory problems based on mixed polynomials. (English summary) (*see* **2005c:00015**)
Popov, S. P. *see* **Bibik, Yu. V., 2005b:37172**
Portero, L. (*with* Jorge, J. C.; Bujanda, B.) Avoiding order reduction of fractional step Runge-Kutta discretizations for linear time dependent coefficient parabolic problems. (English summary) **2005d:65153**
Psihoyios, G. (*with* Simos, T. E.) A fourth algebraic order trigonometrically fitted predictor-corrector scheme for IVPs with oscillating solutions. (English summary) **2005k:65122**
Rández, Luis *see* **Calvo Pinilla, M. et al., 2005m:37200**
Schmitt, Bernhard A. (*with* Weiner, Rüdiger) Parallel two-step W-methods with peer variables. (English summary) **2005d:65104**
Schropp, Johannes Attracting sets in cocycle delay differential equations and in their Runge-Kutta discretizations. (English summary) **2005g:34200**
Secrieru, Ivan La stabilité des méthodes aux différences. (French summary) [The stability of difference methods] **2005g:65104**
Simos, T. E. *see* **Psihoyios, G., 2005k:65122**
Skufca, Joseph D. Analysis still matters: a surprising instance of failure of Runge-Kutta-Felberg ODE solvers. (English summary) **2005j:37047**
Sommeijer, Ben P. *see* **Verwer, Jan G. et al., 2005e:65136** *and* **2005h:65151**
Tan, Xiaobo Almost symplectic Runge-Kutta schemes for Hamiltonian systems. (English summary) **2005i:37099**
Tang, Chen (*with* Yan, Hai Qing; Zhang, Hao; Li, Wen-Run; Liu, Ming; Zhang, Gui Min) New predictor-corrector methods based on exponential time differencing for systems of nonlinear differential equations. (English summary) **2005d:65105**
Tang, Yi-Fa *see* **Xiao, Ai-Guo, 2005g:65188**
Tasić, Bratislav (*with* Mattheij, Robert M. M.) An explicit method for solving flows of ODE. (English summary) **2005h:65102**
Thalhammer, Mechthild On the convergence behaviour of variable stepsize multistep methods for singularly perturbed problems. (English summary) **2005h:65118**
Tocino, A. Mean-square stability of second-order Runge-Kutta methods for stochastic differential equations. (English summary) **2005i:65015**
Trigiante, Donato *see* **Amodio, Pierluigi et al., 2005m:65308**
Vandewalle, Stefan *see* **Zhang, Cheng-jian, 2005a:65160**
Verwer, Jan G. (*with* Sommeijer, Ben P.; Hundsdorfer, Willem) RKC time-stepping for advection-diffusion-reaction problems. (English summary) **2005h:65151**
— (*with* Sommeijer, Ben P.) An implicit-explicit Runge-Kutta-Chebyshev scheme for diffusion-reaction equations. (English summary) **2005e:65136**
Wang, Wan Sheng (*with* Li, Shou Fu) Stability analysis of nonlinear delay differential equations of neutral type. (Chinese. English summary) **2005g:34197**
Weiner, Rüdiger *see* **Schmitt, Bernhard A., 2005d:65104**
Weinmüller, E. *see* **Auzinger, W. et al., 2005h:65096**
Wright, William *see* **Butcher, John C., 2005d:65097**
Xiao, Ai-Guo (*with* Tang, Yi-Fa) Order properties of symplectic Runge-Kutta-Nyström methods. (English summary) **2005g:65188**
Xu, Yang[2] (*with* Liu, Ming Zhu) $\mathscr{R}$-stability of linear θ-method with general variable stepsize for system of pantograph equations with two delay terms. (English summary) **2005h:65103**
Yan, Hai Qing *see* **Tang, Chen et al., 2005d:65105**
Yang, Cuihong (*with* Zhu, Si Ming; Chen, Shu Hui) A modified elliptic Lindstedt-Poincaré method for certain strongly non-linear oscillators. (English summary) **2005c:34107**
Yankovskiĭ, A. P. *see* **Nemirovskiĭ, Yu. V., 2005m:65196**
Yu, Yue Xin (*with* Li, Shou Fu) Nonlinear stability of one-leg methods for delay differential equations. (Chinese. English and Chinese summaries) **2005m:65152**
Yuan, Dong Jing On the convergence of the discretized parallel chaotic waveform relaxation method. (English summary) **2005a:65062**
Zhang, Cheng-jian NGP(α)-stability of general linear methods for NDDEs. (English summary) **2005d:65123**
— (*with* Vandewalle, Stefan) Stability analysis of Runge-Kutta methods for nonlinear Volterra delay-integro-differential equations. (English summary) **2005a:65160**
Zhang, Gui Min *see* **Tang, Chen et al., 2005d:65105**
Zhang, Hao *see* **Tang, Chen et al., 2005d:65105**
Zhu, Si Ming *see* **Yang, Cuihong et al., 2005c:34107**

65L07 Numerical investigation of stability of solutions

Items with secondary classifications in 65L07

Cao, Yang[2] (*with* Petzold, Linda R.) A posteriori error estimation and global error control for ordinary differential equations by the adjoint method. (English summary) **2005m:65135**
Ibragimov, V. R. The forward jumping methods. (English summary) **2005g:65100**
Petzold, Linda R. *see* **Cao, Yang[2], 2005m:65135**

65L08 Improperly posed problems

Items with secondary classifications in 65L08

Altinay, Bengi *see* **Yalçinbaş, Salih et al.**
Demirbaş, Mehmet *see* **Yalçinbaş, Salih et al.**
Kocakuş, Süheyla *see* **Yalçinbaş, Salih et al.**
Şahiner, Ahmet *see* **Yalçinbaş, Salih et al.**
Yalçinbaş, Salih (*with* Şahiner, Ahmet; Demirbaş, Mehmet; Altinay, Bengi; Kocakuş, Süheyla) The approximate solution of high-order linear differential equation systems with variable coefficients in terms of Taylor polynomials.

65L09 Inverse problems

Baker, Christopher T. H. (*with* Parmuzin, Evgeny I.) Identification of the initial function for nonlinear delay differential equations. (English summary) **2005k:65136**
Barahona, Pedro *see* **Granvilliers, Laurent et al., 2005i:65098**
Blyumin, S. L. (*with* Pogodaev, A. K.) Recursive-iterative algorithms for the adaptive identification of nonlinear lumped dynamical systems. (Russian. Russian summary) **2005f:65089**
Boguslavskiĭ, I. A. The algorithms of the organized search for identification of parameters of models of nonlinear dynamic system. (English summary) **2005j:65072**
Cruz, Jorge *see* **Granvilliers, Laurent et al., 2005i:65098**
Granvilliers, Laurent (*with* Cruz, Jorge; Barahona, Pedro) Parameter estimation using interval computations. (English summary) **2005i:65098**
Klibanov, Michael V. *see* **Timonov, A. A.**
Ma, Fu-ming (*with* Sun, Fangfang) Numerical reconstruction of piecewise constant potential for one dimensional Helmholtz equation. (English summary) (*see* **2005d:35008**)
Parmuzin, Evgeny I. *see* **Baker, Christopher T. H., 2005k:65136**
Pogodaev, A. K. *see* **Blyumin, S. L., 2005f:65089**
Rundell, William (*with* Sacks, Paul) Numerical technique for the inverse resonance problem. (English summary) **2005f:65090**
Sacks, Paul *see* **Rundell, William, 2005f:65090**
Sun, Fangfang *see* **Ma, Fu-ming, (2005d:35008)**
Timonov, A. A. (*with* Klibanov, Michael V.) A new iterative procedure for the numerical solution of coefficient inverse problems. (English summary)
Trivailo, Pavel *see* **Williams, Paul**
Williams, Paul (*with* Trivailo, Pavel) Optimal parameter estimation of dynamical systems using direct transcription methods. (English summary)

Items with secondary classifications in 65L09

Bastin, Georges *see* **Bernard, Olivier**
Beaumont, Jacques *see* **Wang, Guan Jun, 2005b:92015**
Bernard, Olivier (*with* Bastin, Georges) On the estimation of the pseudo-stoichiometric matrix for macroscopic mass balance modelling of biotechnological processes. (English summary)
Dulov, Eugene V. (*with* Sinitsyn, Aleksandr) A numerical modelling of the limit problem for the magnetically noninsulated diode. (English summary) **2005h:65122**
Hayashi, Shizue *see* **Watanabe, Masaji et al., 2005g:92042**
Kaipio, Jari P. (*with* Somersalo, Erkki) ★ Statistical and computational inverse problems. **2005g:65001**
Kawai, Fusako *see* **Watanabe, Masaji et al., 2005g:92042**
Nyarko, Emmanuel Karlo (*with* Scitovski, Rudolf) Solving the parameter identification problem of mathematical models using genetic algorithms. (English summary) **2005a:93046**
Scitovski, Rudolf *see* **Nyarko, Emmanuel Karlo, 2005a:93046**
Shibata, Masaru[2] *see* **Watanabe, Masaji et al., 2005g:92042**

Sinitsyn, Aleksandr *see* **Dulov, Eugene V., 2005h:65122**
Somersalo, Erkki *see* **Kaipio, Jari P., 2005g:65001**
Sudate, Yasuhiro *see* **Watanabe, Masaji et al., 2005g:92042**
Wang, Guan Jun (*with* Beaumont, Jacques) Parameter estimation of the Hodgkin-Huxley gating model: an inversion procedure. (English summary) **2005b:92015**
Wang, Guanyu Parameter optimization in large-scale dynamical systems: a method of contractive mapping. (English summary) **2005c:93034**
Watanabe, Masaji (*with* Kawai, Fusako; Shibata, Masaru[2]; Yokoyama, Shigeo; Sudate, Yasuhiro; Hayashi, Shizue) Analytical and computational techniques for exogenous depolymerization of xenobiotic polymers. (English summary) **2005g:92042**
Yokoyama, Shigeo *see* **Watanabe, Masaji et al., 2005g:92042**

65L10 Boundary value problems

Abdullaev, Vagif M. *see* **Aida-zade, Kamil Radjab**
Abu-Saman, Awni Collocation methods for linear two-point boundary value problems by monomials. (English summary) **2005k:65137**
Aggarwal, Vivek K. *see* **Kadalbajoo, Mohan K., 2005k:65141**
Aida-zade, Kamil Radjab (*with* Abdullaev, Vagif M.) Transfer method for boundary value problems with non-separated boundary conditions. (English summary)
Al-Khaled, Kamel Numerical solutions of singular two-point boundary value problems via the sinc method. (English summary) **2005e:65095**
Al-Said, Eisa A. Computational techniques for system of third order boundary value problems. (English summary) **2005d:65116**
Aykut, Arzu *see* **Çelik, Ercan et al., 2005g:65113**
Aziz, T. *see* **Khan, Arshad et al., 2005e:65096**
Bayram, Mustafa *see* **Çelik, Ercan et al., 2005g:65113**
Bertoluzza, Silvia *see* **Hoffman, Johan et al., 2005h:65107**
Bezrodnykh, S. I. *see* **Vlasov, V. I.**
Boglaev, Igor Uniform numerical methods on arbitrary meshes for singularly perturbed problems with discontinuous data. (English summary) **2005d:65117**
Cai, Xin (*with* Liu, Fa Wang) Uniform convergence difference schemes for singularly perturbed mixed boundary problems. (English summary) **2005d:65118**
Cash, J. R. (*with* Moore, D. R.) High-order interpolants for solutions of two-point boundary value problems using MIRK methods. (English summary) **2005k:65138**
Çelik, Ercan (*with* Aykut, Arzu; Bayram, Mustafa) The modified successive approximations method and Padé approximants for solving the differential equation with variant retarded argument. (English summary) **2005g:65113**
Cui, Jun Zhi *see* **He, Wen Ming, 2005b:65081**
Ershova, T. Ya. The Richardson method in a difference problem for a singularly perturbed convection-diffusion equation. (Russian. Russian summary) **2005k:65139**
Fadeev, S. I. (*with* Kogai, V. V.) Using parameter continuation based on the multiple shooting method for numerical research of nonlinear boundary value problems. (English summary) **2005g:65114**
Farrell, P. A. (*with* Hegarty, Alan F.; Miller, J. J. H.; O'Riordan, Eugene; Shishkin, Grigorii I.) Global maximum norm parameter-uniform numerical method for a singularly perturbed convection-diffusion problem with discontinuous convection coefficient. (English summary) **2005m:65146**
Fĕdorov, D. V. On the numerical solution of boundary value problems for second-order linear ordinary differential equations with a small parameter multiplying the highest derivative. (Russian)
Fix, George J., III (*with* Roop, J. P.) Least squares finite-element solution of a fractional order two-point boundary value problem. (English summary) **2005k:65140**
Gan, Lifei *see* **Wang, Xinwei et al.**
Ghoreishi, F. (*with* Hosseini, S. Mohammad) The Tau method and a new preconditioner. (English summary) **2005b:65080**
Harina, O. V. (*with* Zadorin, A. I.) Numerical solution of a boundary value problem for a linear system of equations with a small parameter on a half-infinite interval. (English summary) (*see* **2005i:65006**)
He, Wen Ming (*with* Cui, Jun Zhi) A numerical method for some equation with oscillating coefficients. (Chinese. English summary) **2005b:65081**
Hegarty, Alan F. *see* **Farrell, P. A. et al., 2005m:65146**
Hemker, Pieter W. (*with* Shishkin, Grigorii I.; Tselishcheva, I. V.) Parameter-uniform numerical methods for a class of quasilinear singularly perturbed convection-diffusion equations in a composed domain. (English summary) (*see* **2005i:65006**)
Hoffman, Johan (*with* Johnson, Claes; Bertoluzza, Silvia) Subgrid modeling for convection-diffusion-reaction in one space dimension using a Haar multiresolution analysis. (English summary) **2005h:65107**
Hosseini, S. Mohammad *see* **Ghoreishi, F., 2005b:65080**
Jha, Navnit *see* **Mohanty, R. K. et al., 2005h:65110**
Jiang, Jin Sheng *see* **Jin, Zhong Qiu et al.**
Jin, Zhong Qiu (*with* Liang, Ke Wei; Jiang, Jin Sheng) Booster method for singularly perturbed two-point boundary value problems. (Chinese. English and Chinese summaries)
Johnson, Claes *see* **Hoffman, Johan et al., 2005h:65107**
Jovanović, Boško S. (*with* Lemeshevskiĭ, S. V.; Matus, Petr P.) Global stability of second-order operator-differential equations and three-layer operator-difference schemes. (Russian. English and Russian summaries) **2005d:65119**
Kacewicz, Bolesław Asymptotic setting (revisited): analysis of a boundary-value problem and a relation to a classical approximation result. (English summary) **2005h:65108**
Kadalbajoo, Mohan K. (*with* Sharma, Kapil Kumar) Numerical analysis of singularly perturbed delay differential equations with layer behavior. (English summary) **2005m:65147**
— (*with* Aggarwal, Vivek K.) Numerical solution of singular boundary value problems via Chebyshev polynomial and B-spline. (English summary) **2005k:65141**
Kang, Sheon-Young Volterra method for the radial Schrödinger equation. (English summary) **2005d:65120**
Khan, Arshad (*with* Noor, Muhammad Aslam; Aziz, T.) Parametric quintic-spline approach to the solution of a system of fourth-order boundary-value problems. (English summary) **2005e:65096**
Kharina, O. V. The method for a system of singular perturbed equations on a half-infinite interval. (English summary) (*see* **2005g:00019**)
Kogai, V. V. *see* **Fadeev, S. I., 2005g:65114**
Kopteva, N. V. (*with* Stynes, Martin) Numerical analysis of a singularly perturbed nonlinear reaction-diffusion problem with multiple solutions. (English summary) **2005e:65097**
Kutniv, Myroslav V. Modified three-point difference schemes of high-accuracy order for second order nonlinear ordinary differential equations. (English summary) **2005e:65098**
Lemeshevskiĭ, S. V. *see* **Jovanović, Boško S. et al., 2005d:65119**
Lepik, Ülo Numerical solution of differential equations using Haar wavelets. (English summary) **2005m:65148**
Liang, Ke Wei *see* **Jin, Zhong Qiu et al.**
Linß, Torsten (*with* Madden, Niall) Accurate solution of a system of coupled singularly perturbed reaction-diffusion equations. (English summary) **2005k:65142**
Liu, Fa Wang *see* **Cai, Xin, 2005d:65118**
Liu, Feng[5] *see* **Wang, Xinwei et al.**
Loccufier, M. *see* **Luyckx, L. et al.**
Luchka, A. Yu. A projection-iterative method for differential equations with restrictions. (Ukrainian. English and Ukrainian summaries) **2005h:65109**
Luyckx, L. (*with* Loccufier, M.; Noldus, E.) Computational methods in nonlinear stability analysis: stability boundary calculations. (English summary)
Madden, Niall *see* **Linß, Torsten, 2005k:65142**
Matus, Petr P. *see* **Jovanović, Boško S. et al., 2005d:65119**
Mentins'kiĭ, S. M. *see* **Shuvar, B. A., 2005i:65099**
Miller, J. J. H. *see* **Farrell, P. A. et al., 2005m:65146**
Mohanty, R. K. (*with* Sachdev, P. L.; Jha, Navnit) An $O(h^4)$ accurate cubic spline TAGE method for nonlinear singular two point boundary value problems. (English summary) **2005h:65110**
Moore, D. R. *see* **Cash, J. R., 2005k:65138**
Muir, P. H. *see* **Shampine, L. F., 2005k:65143**
Noldus, E. *see* **Luyckx, L. et al.**
Noor, Muhammad Aslam *see* **Khan, Arshad et al., 2005e:65096**
O'Riordan, Eugene (*with* Pickett, Maria L.; Shishkin, Grigorii I.) Singularly perturbed problems modeling reaction-convection-diffusion processes. (English summary) **2005h:65111**
— *see also* **Farrell, P. A. et al., 2005m:65146**
Pickett, Maria L. *see* **O'Riordan, Eugene et al., 2005h:65111**
Pramod Chakravarthy, P. *see* **Reddy, Y. N.**
Ramos, J. I. Piecewise quasilinearization techniques for singular boundary-value problems. (English summary) **2005f:65091**
Ravi Kanth, A. S. V. (*with* Reddy, Y. N.) Higher order finite difference method for a class of singular boundary value problems. (English summary) **2005h:65112**
Reddy, Y. N. (*with* Pramod Chakravarthy, P.) An initial-value approach for solving singularly perturbed two-point boundary value problems. (English summary)
— *see also* **Ravi Kanth, A. S. V., 2005h:65112**
Roop, J. P. *see* **Fix, George J., III, 2005k:65140**
Roos, Hans-Görg (*with* Uzelac, Zorica) The SDFEM for a convection-diffusion problem with two small parameters. (English summary) **2005c:65061**
Sachdev, P. L. *see* **Mohanty, R. K. et al., 2005h:65110**
Shampine, L. F. (*with* Muir, P. H.) Estimating conditioning of BVPs for ODEs. (English summary) **2005k:65143**
Sharma, Kapil Kumar *see* **Kadalbajoo, Mohan K., 2005m:65147**
Shishkin, Grigorii I. On conditioning of a Schwarz method for singularly perturbed convection-diffusion equations in the case of disturbances in the data of the boundary-value problem. (English summary) **2005b:65082**
— *see also* **O'Riordan, Eugene et al., 2005h:65111**; **Farrell, P. A. et al., 2005m:65146** *and* **Hemker, Pieter W. et al., (2005i:65006)**
Shuvar, B. A. (*with* Mentins'kiĭ, S. M.) A two-sided algorithm for the approximation of solutions of the de la Vallée Poussin problem. (Ukrainian. English, Russian and Ukrainian summaries) **2005i:65099**
Simos, T. E. Exponentially-fitted multiderivative methods for the numerical solution of the Schrödinger equation. (English summary) **2005f:65092**
— *see also* **Williams, P. S., 2005a:65068**
Somali, S. (*with* Tuncer, N.) Shooting method and extrapolation for singular two-point boundary value problems. (English summary)
Stynes, Martin A jejune heuristic mesh theorem. (English summary) **2005e:65099**
— *see also* **Kopteva, N. V., 2005e:65097**
Surla, Katarina (*with* Uzelac, Zorica) A uniformly accurate spline collocation method for a normalized flux. (English summary) **2005b:65083**
Taufer, Jiří Numerical solution of boundary value problems for selfadjoint differential equations of $2n$th order. (English summary) **2005f:65093**
Tselishcheva, I. V. *see* **Hemker, Pieter W. et al., (2005i:65006)**
Tuncer, N. *see* **Somali, S.**
Uzelac, Zorica *see* **Surla, Katarina, 2005b:65083** *and* **Roos, Hans-Görg, 2005c:65061**
Vlasov, V. I. (*with* Bezrodnykh, S. I.) A method for solving a singularly perturbed system of nonlinear differential equations. (Russian)
Wang, Lei[3] A novel method for a class of nonlinear singular perturbation problems. (English summary) **2005d:65121**
— A new algorithm for solving classical Blasius equation. (English summary) **2005h:65113**
Wang, Xin Feng[2] *see* **Wang, Xinwei et al.**
Wang, Xinwei (*with* Liu, Feng[5]; Wang, Xin Feng[2]; Gan, Lifei) New approaches in application of differential quadrature method to fourth-order differential equations. (English summary)
Williams, P. S. (*with* Simos, T. E.) A new family of exponentially fitted methods. (English summary) **2005a:65068**
Yao, Qing Liu Monotonic iterative technique for a class of second-order two-point boundary value problems. (Chinese. English and Chinese summaries) **2005a:65069**
— Monotone iterative method for a class of nonlinear second-order three-point boundary value problems. (Chinese. English summary) **2005e:65100**
Zadorin, A. I. *see* **Harina, O. V., (2005i:65006)**

Items with secondary classifications in 65L10

Aggarwal, Vivek K. *see* **Kadalbajoo, Mohan K., 2005i:65105**
Ahmad, Bashir (*with* Naz, Uzma; Khan, Rahmat Ali) A higher order monotone iterative scheme for nonlinear Neumann boundary value problems. (English summary) **2005j:34009**
Akhmet, M. U. (*with* Zafer, A.) Controllability of two-point nonlinear boundary-value problems by the numerical-analytic method. (English summary) **2005a:93014**
Aliev, Rafik M. (*with* Gasymova, Sara G.) On quadrature formulae. (English summary) **2005m:65044**
Amiraliyev, Gabil M. (*with* Kudu, Mustafa; Duru, Hakki) Finite-difference method for parameterized singularly perturbed problem. **2005e:65101**
Amodio, Pierluigi (*with* Sgura, Ivonne) High-order finite difference schemes for the solution of second-order BVPs. (English summary) **2005k:65144**
Ansari, Ali R. *see* **Hossain, Bayezid et al., 2005a:76060**
Ashyralyev, Allaberen (*with* Sobolevskii, Pavel E.) On the two-step a high order of accuracy difference schemes for the second order differential equations. (English summary) **2005k:65115**
Bayram, Mustafa *see* **Çelik, Ercan**
Brihaye, Yves (*with* Ioannidou, Theodora) SU(5) gravitating monopoles. (English summary) **2005m:83022**
Cannon, John R. *see* **El-Gamel, Mohamed et al., 2005d:65126** *and* **2005k:65150**
Çelik, Ercan (*with* Bayram, Mustafa) The basic successive substitute approximations method and Padé approximations to solve the elasticity problem of settled of the wronkler ground with variable coefficients. (English summary)
Cen, Zhong Di (*with* Gao, Huai Yi) Uniform convergence analysis of a singularly perturbed Robin problem on a Bakhvalov-Shishkin mesh. (Chinese. English and Chinese summaries)
Chen, Chuan Miao *see* **Xie, Zi-qing, 2005d:58022**
Clavero Gracia, Carmelo (*with* Gracia, J. L.) HODIE finite difference schemes on generalized Shishkin meshes. (English summary) **2005b:65084**
Deng, Kang *see* **Xiong, Zhi Guang**
Dimitrova, Ivanka Tr. (*with* Volkov, Lyuben G.) High order ε-uniform methods for singularly perturbed reaction-diffusion problems with discontinuous coefficients and singular sources. (English summary) **2005h:65115**
Duru, Hakki *see* **Amiraliyev, Gabil M. et al., 2005e:65101**
El-Gamel, Mohamed (*with* Zayed, Ahmed I.) Sinc-Galerkin method for solving nonlinear boundary-value problems. (English summary) **2005k:65149**
— (*with* Cannon, John R.; Zayed, Ahmed I.) Sinc-Galerkin method for solving linear sixth-order boundary-value problems. (English summary) **2005d:65126**
— (*with* Cannon, John R.) On the solution of a second order singularly-perturbed boundary value problem by the sinc-Galerkin method. (English summary) **2005k:65150**
Emel'yanov, K. V. On an approximate solution of a one-dimensional linear singularly perturbed problem. (English summary) **2005e:65103**
Ezquerro, José A. (*with* Hernández Verón, Miguel A.) On the solution of boundary value problems by iterative methods. (English summary) (*see* **2005d:00013**)
Farrell, P. A. (*with* Hegarty, Alan F.; Miller, J. J. H.; O'Riordan, Eugene; Shishkin, Grigorii I.) Singularly perturbed convection-diffusion problems with boundary and weak interior layers. (English summary) **2005a:34077**
Fu, Dongsheng *see* **Liu, Guo Qing et al., 2005k:34167**
Gao, Huai Yi *see* **Cen, Zhong Di**
Gasymova, Sara G. *see* **Aliev, Rafik M., 2005m:65044**
Gavrilyuk, Ivan P. *see* **Makarov, Vladimir L. et al., 2005i:65101**
Gnatïv, L. B. (*with* Kutniv, Myroslav V.) Modified three-point difference schemes of a high order of accuracy for second-order monotone ordinary differential equations with a derivative in the right-hand side. (Ukrainian. English summary) **2005i:65100**
— (*with* Kutniv, Myroslav V.) Modified three-point difference schemes of a high order of accuracy for systems of second-order ordinary differential equations with a monotone operator. (Ukrainian. English, Russian and Ukrainian summaries) **2005e:65104**
Gracia, J. L. *see* **Clavero Gracia, Carmelo, 2005b:65084**
Hegarty, Alan F. *see* **Farrell, P. A. et al., 2005a:34077**
Herceg, Dragoslav (*with* Miloradović, Miroljub) On numerical solution of semilinear singular perturbation problems by using the Hermite scheme on a new Bakhvalov-type mesh. (English summary) **2005c:65062**
Hermann, Martin *see* **Makarov, Vladimir L. et al., 2005i:65101**
Hernández Verón, Miguel A. *see* **Ezquerro, José A., (2005d:00013)**
Hossain, Bayezid (*with* Ansari, Ali R.; Shishkin, Grigorii I.) On numerical methods for a boundary layer on a body of revolution. (English summary) **2005a:76060**
Ilicasu, F. O. (*with* Schultz, David H.) High-order finite-difference techniques for linear singular perturbation boundary value problems. (English summary) **2005b:65085**
Ioannidou, Theodora *see* **Brihaye, Yves, 2005m:83022**
Kadalbajoo, Mohan K. (*with* Aggarwal, Vivek K.) Cubic spline for solving singular two-point boundary value problems. (English summary) **2005i:65105**
Khan, Rahmat Ali *see* **Ahmad, Bashir et al., 2005j:34009**
Koren, Barry *see* **Miller, J. J. H. et al., 2005a:76112**
Kostishin, L. P. (*with* Shuvar, B. A.) Aggregate-iterative methods for the approximation of solutions of boundary value problems. (Ukrainian. English and Ukrainian summaries) **2005f:65095**
Kudu, Mustafa *see* **Amiraliyev, Gabil M. et al., 2005e:65101**
Kutniv, Myroslav V. *see* **Gnatïv, L. B., 2005e:65104; 2005i:65100** *and* **Makarov, Vladimir L. et al., 2005i:65101**
Kvasov, Boris I. DMBVP for tension splines. (English summary) **2005k:41023**
Liao, Shi-Jun A challenging nonlinear problem for numerical techniques. (English summary) **2005m:34006**
Lima, Pedro M. (*with* Oliveira, A. M.) Numerical solution of nonlinear singular boundary-value problems. (English summary) (*see* **2005c:65004**)
Ling, Leevan (*with* Trummer, M. R.) Multiquadratic collocation method with integral formulation for boundary layer problems. (English summary) **2005k:65155**
Linß, Torsten (*with* Madden, Niall) An improved error estimate for a numerical method for a system of coupled singularly perturbed reaction-diffusion equations. (English summary) **2005e:65105**
Liu, Guo Qing (*with* Fu, Dongsheng; Shen, Zu He) On solving periodic boundary problem of semilinear systems with a one-parameter imbedding. (English summary) **2005k:34167**
Ma, Hang (*with* Qin, Qing-Hua) A second-order scheme for integration of one-dimensional dynamic analysis. (English summary) **2005j:70003**
Madden, Niall *see* **Linß, Torsten, 2005e:65105**
Makarov, Vladimir L. (*with* Gavrilyuk, Ivan P.; Kutniv, Myroslav V.; Hermann, Martin) A two-point difference scheme of an arbitrary order of accuracy for BVPs for systems of first order nonlinear ODEs. (English summary) **2005i:65101**
Mazzia, Francesca (*with* Trigiante, Donato) A hybrid mesh selection strategy based on conditioning for boundary value ODE problems. (English summary) **2005f:65097**
Miller, J. J. H. (*with* Shishkin, Grigorii I.; Koren, Barry; Shishkina, L. P.) Grid approximation of a singularly perturbed boundary value problem modelling heat transfer in the case of flow over a flat plate with suction of the boundary layer. (English summary) **2005a:76112**
— *see also* **Farrell, P. A. et al., 2005a:34077**
Miloradović, Miroljub *see* **Herceg, Dragoslav, 2005c:65062**
Naz, Uzma *see* **Ahmad, Bashir et al., 2005j:34009**
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Oliveira, A. M. *see* **Lima, Pedro M., (2005c:65004)**
O'Riordan, Eugene *see* **Farrell, P. A. et al., 2005a:34077**
Pittaluga, G. (*with* Sacripante, L.; Venturino, E.) A collocation method for linear fourth order boundary value problems. (English summary) **2005d:65127**
Qin, Qing-Hua *see* **Ma, Hang, 2005j:70003**
Rundell, William (*with* Sacks, Paul) Numerical technique for the inverse resonance problem. (English summary) **2005f:65090**
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Sacripante, L. *see* **Pittaluga, G. et al., 2005d:65127**
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Shishkina, L. P. *see* **Miller, J. J. H. et al., 2005a:76112**
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Surla, Katarina *see* **Uzelac, Zorica, 2005d:65128**
Teplīns'kiĭ, Yu. V. (*with* Nedokīs, V. A.) On a countable-point nonlinear boundary value problem on a half-line for ordinary differential equations in a space of bounded number sequences. (Ukrainian. English and Ukrainian summaries) **2005e:34084**
Trigiante, Donato *see* **Mazzia, Francesca, 2005f:65097**
Trummer, M. R. *see* **Ling, Leevan, 2005k:65155**
Uzelac, Zorica (*with* Surla, Katarina) A uniformly accurate collocation method for a singularly perturbed problem. (English summary) **2005d:65128**
Venturino, E. *see* **Pittaluga, G. et al., 2005d:65127**
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Vulanović, Relja An almost sixth-order finite-difference method for semilinear singular perturbation problems. (English summary) **2005i:65103**
Xie, Zi-qing (*with* Chen, Chuan Miao) Multiple solutions and its Morse index for one-dimensional nonlinear problem. (English summary) **2005d:58022**
Xiong, Zhi Guang (*with* Deng, Kang) Ultraconvergence of finite element derivative recovery for a two-point boundary problem. (Chinese. English and Chinese summaries)
Zafer, A. *see* **Akhmet, M. U., 2005a:93014**
Zayed, Ahmed I. *see* **El-Gamel, Mohamed et al., 2005d:65126** *and* **2005k:65149**
Zhao, Qing Hua *see* **Zhu, Qi Ding, 2005a:65078**
Zhong, Wan Xie On precise integration method. (English summary) **2005a:65063**
Zhu, Qi Ding (*with* Zhao, Qing Hua) SPR technique and finite element correction. (English summary) **2005a:65078**

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Adee, S. O. (*with* Onumanyi, P.; Sirisena, U. W.; Yahaya, Y. A.) Note on starting the Numerov method more accurately by a hybrid formula of order four for an initial—value problem. (English summary) **2005h:65114**
Amiraliyev, Gabil M. (*with* Kudu, Mustafa; Duru, Hakki) Finite-difference method for parameterized singularly perturbed problem. **2005e:65101**
— The convergence of a finite difference method on layer-adapted mesh for a singularly perturbed system. (English summary)
— *see also* **Cakir, M., 2005g:65115**
Amodio, Pierluigi (*with* Sgura, Ivonne) High-order finite difference schemes for the solution of second-order BVPs. (English summary) **2005k:65144**
Angelova, Ivanka Tr. (*with* Volkov, Lyuben G.) High-order difference schemes based on new Marchuk integral identities for one-dimensional interface problems. (English summary) **2005k:65145**
Bellew, S. (*with* O'Riordan, Eugene) A parameter robust numerical method for a system of two singularly perturbed convection-diffusion equations. (English summary) **2005e:65102**
Buckmire, Ron Application of a Mickens finite-difference scheme to the cylindrical Bratu-Gelfand problem. (English summary) **2005a:65070**
Cakir, M. (*with* Amiraliyev, Gabil M.) A finite difference method for the singularly perturbed problem with nonlocal boundary condition. (English summary) **2005g:65115**
Cen, Zhong Di (*with* Gao, Huai Yi) Uniform convergence analysis of a singularly perturbed Robin problem on a Bakhvalov-Shishkin mesh. (Chinese. English and Chinese summaries)
Chen, Yan Ping[1] *see* **Yang, Ji Ming[1]**
Chen-Charpentier, Benito M. *see* **Solis, Francisco Javier, 2005g:65116**
Clavero Gracia, Carmelo (*with* Gracia, J. L.) HODIE finite difference schemes on generalized Shishkin meshes. (English summary) **2005b:65084**
Czernous, Wojciech (*with* Kamont, Z.) Implicit difference methods for parabolic functional differential equations. (English summary) **2005m:65149**

Dimitrova, Ivanka Tr. (*with* Volkov, Lyuben G.) High order ε-uniform methods for singularly perturbed reaction-diffusion problems with discontinuous coefficients and singular sources. (English summary) **2005h:65115**
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Emel′yanov, K. V. On an approximate solution of a one-dimensional linear singularly perturbed problem. (English summary) **2005e:65103**
Gahan, B. (*with* Miller, J. J. H.; Shishkin, Grigorii I.) Accurate numerical method for Blasius' problem for flow past a flat plate with mass transfer. (English summary) (*see* **2005c:65004**)
Gao, Huai Yi *see* **Cen, Zhong Di**
Gavrilyuk, Ivan P. *see* **Makarov, Vladimir L. et al., 2005i:65101**
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Gnatīv, L. B. (*with* Kutniv, Myroslav V.) Modified three-point difference schemes of a high order of accuracy for second-order monotone ordinary differential equations with a derivative in the right-hand side. (Ukrainian. English summary) **2005i:65100**
— (*with* Kutniv, Myroslav V.) Modified three-point difference schemes of a high order of accuracy for systems of second-order ordinary differential equations with a monotone operator. (Ukrainian. English, Russian and Ukrainian summaries) **2005e:65104**
Gracia, J. L. *see* **Clavero Gracia, Carmelo, 2005b:65084**
Herceg, Dragoslav (*with* Miloradović, Miroljub) On numerical solution of semilinear singular perturbation problems by using the Hermite scheme on a new Bakhvalov-type mesh. (English summary) **2005c:65062**
Hermann, Martin *see* **Makarov, Vladimir L. et al., 2005i:65101**
Ilicasu, F. O. (*with* Schultz, David H.) High-order finite-difference techniques for linear singular perturbation boundary value problems. (English summary) **2005b:65085**
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Kudu, Mustafa *see* **Amiraliyev, Gabil M. et al., 2005e:65101**
Kutniv, Myroslav V. *see* **Gnatīv, L. B., 2005e:65104; 2005i:65100** *and* **Makarov, Vladimir L. et al., 2005i:65101**
Liandrat, Jacques *see* **Piquemal, Anne-Sophie, 2005j:65073**
Lima, Pedro M. (*with* Oliveira, A. M.) Numerical solution of nonlinear singular boundary-value problems. (English summary) (*see* **2005c:65004**)
Linß, Torsten (*with* Madden, Niall) An improved error estimate for a numerical method for a system of coupled singularly perturbed reaction-diffusion equations. (English summary) **2005e:65105**
— Error expansion for a first-order upwind difference scheme applied to a model convection-diffusion problem. (English summary) **2005a:65071**
— On a convection-diffusion problem with a weak layer. (English summary) **2005k:65147**
Loseva, M. V. *see* **Prikazchikov, V. G., 2005f:65094**
Mac Mullen, Helen (*with* Shishkin, Grigorii I.) An ε-uniform discrete non-overlapping domain decomposition method for a singularly perturbed convection-diffusion problem. (English summary) (*see* **2005i:65006**)
Madden, Niall *see* **Linß, Torsten, 2005e:65105**
Makarov, Vladimir L. (*with* Gavrilyuk, Ivan P.; Kutniv, Myroslav V.; Hermann, Martin) A two-point difference scheme of an arbitrary order of accuracy for BVPs for systems of first order nonlinear ODEs. (English summary) **2005i:65101**
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Onumanyi, P. *see* **Adee, S. O. et al., 2005h:65114**
O'Riordan, Eugene *see* **Bellew, S., 2005e:65102**
Pandey, Rajni Kant (*with* Singh, Arvind K.) On the convergence of a finite difference method for a class of singular boundary value problems arising in physiology. (English summary) **2005a:65072**
Piquemal, Anne-Sophie (*with* Liandrat, Jacques) A new wavelet preconditioner for finite difference operators. (English summary) **2005j:65073**
Prikazchikov, V. G. (*with* Loseva, M. V.) A finite element method of high accuracy for the Sturm-Liouville problem. (Russian. English and Ukrainian summaries) **2005f:65094**
Schultz, David H. *see* **Ilicasu, F. O., 2005b:65085**
Serfaty de Markus, Alicia (*with* Mickens, Ronald E.) Reduction of computational errors using nonstandard finite difference models. (English summary) **2005i:65102**
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Shishkin, Grigorii I. *see* **Gahan, B. et al., (2005c:65004)** *and* **Mac Mullen, Helen, (2005i:65006)**
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Sirisena, U. W. *see* **Adee, S. O. et al., 2005h:65114**
Solis, Francisco Javier (*with* Chen-Charpentier, Benito M.) Nonstandard discrete approximations preserving stability properties of continuous mathematical models. (English summary) **2005g:65116**
Tselyaev, V. I. A generalized Numerov method for linear second-order differential equations involving a first derivative term. (English summary) **2005c:65063**
Volkov, Lyuben G. *see* **Dimitrova, Ivanka Tr., 2005h:65115** *and* **Angelova, Ivanka Tr., 2005k:65145**
Vulanović, Relja An almost sixth-order finite-difference method for semilinear singular perturbation problems. (English summary) **2005i:65103**
Wang, Zhongcheng A new effective algorithm for the resonant state of a Schrödinger equation. (English summary)
Yahaya, Y. A. *see* **Adee, S. O. et al., 2005h:65114**
Yang, Ji Ming[1] (*with* Chen, Yan Ping[1]) A moving mesh method for a singularly perturbed convection-diffusion boundary value problem. (Chinese. English and Chinese summaries)
Zhang, Jun[2] (*with* Zhao, Jennifer J.) Truncation error and oscillation property of the combined compact difference scheme. (English summary)
Zhao, Jennifer J. *see* **Zhang, Jun[2]**

Items with secondary classifications in 65L12

Akça, Haydar *see* **Ashyralyev, Allaberen et al., 2005g:39015**
Aleksandrov, A. Yu. (*with* Zhabko, A. P.) On the stability of solutions of a class of nonlinear difference schemes. (Russian. Russian summary) **2005b:65086**
Al-Said, Eisa A. Computational techniques for system of third order boundary value problems. (English summary) **2005d:65116**
Ashyralyev, Allaberen (*with* Akça, Haydar; Yeniçerioğlu, Ali Fuat) Stability properties of difference schemes for neutral differential equations. (English summary) **2005g:39015**
Aziz, T. *see* **Khan, Arshad et al., 2005e:65096**
Cai, Xin (*with* Liu, Fa Wang) Uniform convergence difference schemes for singularly perturbed mixed boundary problems. (English summary) **2005d:65118**
Elbarbary, Elsayed M. E. M. Chebyshev finite difference method for the solution of boundary-layer equations. (English summary) **2005f:76072**
Ershova, T. Ya. The Richardson method in a difference problem for a singularly perturbed convection-diffusion equation. (Russian. Russian summary) **2005k:65139**
Farrell, P. A. (*with* Hegarty, Alan F.; Miller, J. J. H.; O'Riordan, Eugene; Shishkin, Grigorii I.) Global maximum norm parameter-uniform numerical method for a singularly perturbed convection-diffusion problem with discontinuous convection coefficient. (English summary) **2005m:65146**
Fëdorov, D. V. On the numerical solution of boundary value problems for second-order linear ordinary differential equations with a small parameter multiplying the highest derivative. (Russian)
Hasanov, Alemdar On existence, uniqueness and convergence of approximate solution of boundary value problems related to the nonlinear operator $Au := -(k((u')^2)u')' + g(u)$. (English summary) **2005a:34023**
Hegarty, Alan F. *see* **Farrell, P. A. et al., 2005m:65146**
Hemker, Pieter W. (*with* Shishkin, Grigorii I.; Tselishcheva, I. V.) Parameter-uniform numerical methods for a class of quasilinear singularly perturbed convection-diffusion equations in a composed domain. (English summary) (*see* **2005i:65006**)
Kadalbajoo, Mohan K. (*with* Sharma, Kapil Kumar) Numerical analysis of singularly perturbed delay differential equations with layer behavior. (English summary) **2005m:65147**
Kashuba, E. V. (*with* Rukavishnikov, V. A.) Estimate for the error of the p-version of the finite element method for a boundary value problem with a singularity. (English summary) (*see* **2005i:65006**)
Khan, Arshad (*with* Noor, Muhammad Aslam; Aziz, T.) Parametric quintic-spline approach to the solution of a system of fourth-order boundary-value problems. (English summary) **2005e:65096**
Kopteva, N. V. (*with* Stynes, Martin) Numerical analysis of a singularly perturbed nonlinear reaction-diffusion problem with multiple solutions. (English summary) **2005e:65097**
Koren, Barry *see* **Miller, J. J. H. et al., 2005a:76112**
Kutniv, Myroslav V. Modified three-point difference schemes of high-accuracy order for second order nonlinear ordinary differential equations. (English summary) **2005e:65098**
Lebedev, V. I. Extremal polynomials, pseudo-difference operators, and stable explicit schemes for the solution of stiff nonstationary problems of mathematical physics. (*see* **2005i:65006**)
Linß, Torsten (*with* Madden, Niall) Accurate solution of a system of coupled singularly perturbed reaction-diffusion equations. (English summary) **2005k:65142**
Liu, Fa Wang *see* **Cai, Xin, 2005d:65118**
Madden, Niall *see* **Linß, Torsten, 2005k:65142**
Matyukhin, V. I. Computer-aided integration of the motions of a discontinuous mechanical system. (Russian. Russian summary) **2005g:34014**
Mickens, Ronald E. A non-standard finite difference scheme for the equations modelling stellar structure. **2005c:85002**
Mikhailenko, B. G. (*with* Mikhaĭlov, A. A.; Reshetova, Galina) Seismic wavefield modeling for laterally heterogeneous whole earth models. **2005j:86016**
Mikhaĭlov, A. A. *see* **Mikhailenko, B. G. et al., 2005j:86016**
Miller, J. J. H. (*with* Shishkin, Grigorii I.; Koren, Barry; Shishkina, L. P.) Grid approximation of a singularly perturbed boundary value problem modelling heat transfer in the case of flow over a flat plate with suction of the boundary layer. (English summary) **2005a:76112**
— *see also* **Farrell, P. A. et al., 2005m:65146**
Noor, Muhammad Aslam *see* **Khan, Arshad et al., 2005e:65096**
O'Riordan, Eugene (*with* Pickett, Maria L.; Shishkin, Grigorii I.) Singularly perturbed problems modeling reaction-convection-diffusion processes. (English summary) **2005h:65111**
— *see also* **Farrell, P. A. et al., 2005m:65146**
Perov, A. I. On a method for the approximate determination of periodic solutions of systems of nonlinear differential equations. (Russian) **2005g:34022**
Pickett, Maria L. *see* **O'Riordan, Eugene et al., 2005h:65111**
Ravi Kanth, A. S. V. (*with* Reddy, Y. N.) Higher order finite difference method for a class of singular boundary value problems. (English summary) **2005h:65112**
Reddy, Y. N. *see* **Ravi Kanth, A. S. V., 2005h:65112**
Reshetova, Galina *see* **Mikhailenko, B. G. et al., 2005j:86016**
Roos, Hans-Görg (*with* Uzelac, Zorica) The SDFEM for a convection-diffusion problem with two small parameters. (English summary) **2005c:65061**
Rukavishnikov, V. A. *see* **Kashuba, E. V., (2005i:65006)**
Sharma, Kapil Kumar *see* **Kadalbajoo, Mohan K., 2005m:65147**
Shishkin, Grigorii I. *see* **Miller, J. J. H. et al., 2005a:76112; O'Riordan, Eugene et al., 2005h:65111; Farrell, P. A. et al., 2005m:65146** *and* **Hemker, Pieter W. et al., (2005i:65006)**
Shishkina, L. P. *see* **Miller, J. J. H. et al., 2005a:76112**
Stynes, Martin A jejune heuristic mesh theorem. (English summary) **2005e:65099**
— *see also* **Kopteva, N. V., 2005e:65097**
Tselishcheva, I. V. *see* **Hemker, Pieter W. et al., (2005i:65006)**
Uzelac, Zorica *see* **Roos, Hans-Görg, 2005c:65061**
Yeniçerioğlu, Ali Fuat *see* **Ashyralyev, Allaberen et al., 2005g:39015**
Zhabko, A. P. *see* **Aleksandrov, A. Yu., 2005b:65086**

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Breda, D. Methods for numerical computation of characteristic roots for delay differential

equations: experimental comparison. (English summary) **2005a:65073**

Çelik, İbrahim Approximate calculation of eigenvalues with the method of weighted residuals—collocation method. (English summary) **2005h:65116**

Ghelardoni, P. (*with* Gheri, G.; Marletta, Marco) A quasi-extrapolation procedure for error estimation of numerical methods in Sturm-Liouville eigenproblems. (English summary) **2005a:65074**

Gheri, G. *see* **Ghelardoni, P. et al., 2005a:65074**

Kamiński, Marcin Homogenization-based finite element analysis of unidirectional composites by classical and multiresolutional techniques. (English summary) **2005k:65148**

Ledoux, V. (*with* Van Daele, M.; Vanden Berghe, Guido) CP methods of higher order for Sturm-Liouville and Schrödinger equations. (English summary) **2005h:65117**

Marletta, Marco *see* **Ghelardoni, P. et al., 2005a:65074**

Van Daele, M. *see* **Ledoux, V. et al., 2005h:65117**

Vanden Berghe, Guido *see* **Ledoux, V. et al., 2005h:65117**

Items with secondary classifications in 65L15

Abramov, A. A. (*with* Ul′yanova, V. I.; Yukhno, L. F.) A method for solving a nonlinear nonself-adjoint spectral problem for some systems of linear ordinary differential equations. (Russian. Russian summary) **2005b:34173**

Bandurskiĭ, B. I. *see* **Makarov, Vladimir L. et al., 2005i:34115**

Bandyrskiĭ, B. I. *see* **Makarov, Vladimir L. et al., 2005f:34243**

Buckmire, Ron Application of a Mickens finite-difference scheme to the cylindrical Bratu-Gelfand problem. (English summary) **2005a:65070**

Engelborghs, Koen *see* **Green, Kirk et al., 2005d:37172**

Fulton, Charles (*with* Pearson, David B.; Pruess, Steven) Computing the spectral function for singular Sturm-Liouville problems. (English summary) **2005h:34069**

Gegovska-Zajkova, Sonja Numerical solution of Sturm-Liouville problems containing spectral parameter in boundary or interface conditions. (English and Macedonian summaries) **2005k:65146**

Gómez, Francisco Javier (*with* Sesma, Javier) Quantum anharmonic oscillators: a new approach. (English summary) **2005k:81061**

Green, Kirk (*with* Krauskopf, Bernd; Engelborghs, Koen) One-dimensional unstable eigenfunction and manifold computations in delay differential equations. (English summary) **2005d:37172**

Hashemi, Seyed M. (*with* Roach, A.) Application of a mesh reduction dynamic finite element method in coupled vibration analysis of structural elements. (English summary) (*see* **2005d:65006**)

Howson, W. P. *see* **Williams, F. W. et al., 2005b:34059**

Kalogiratou, Z. *see* **Monovasilis, Th. et al.**

Krauskopf, Bernd *see* **Green, Kirk et al., 2005d:37172**

Lahmann, Jan-Rainer (*with* Plum, Michael) A computer-assisted instability proof for the Orr-Sommerfeld equation with Blasius profile. (English summary) **2005c:76045**

Lazurchak, I. I. *see* **Makarov, Vladimir L. et al., 2005f:34243**

Loseva, M. V. *see* **Prikazchikov, V. G., 2005f:65094**

Makarov, Vladimir L. (*with* Lazurchak, I. I.; Bandyrskiĭ, B. I.) Nonclassical asymptotic formulas and the approximation of arbitrary order of accuracy of the eigenvalues of the Sturm-Liouville problem with Bitsadze-Samarskiĭ conditions. (Russian. English and Ukrainian summaries) **2005f:34243**

— (*with* Rossokhataya, N. A.; Bandurskii, B. I.) Functional-discrete method with a high order of accuracy for the eigenvalue transmission problem. (English summary) **2005i:34115**

Monovasilis, Th. (*with* Kalogiratou, Z.; Simos, T. E.) Exponentially fitted symplectic methods for the numerical integration of the Schrödinger equation. (English summary)

Pearson, David B. *see* **Fulton, Charles et al., 2005h:34069**

Plum, Michael *see* **Lahmann, Jan-Rainer, 2005c:76045**

Prikazchikov, V. G. (*with* Loseva, M. V.) A finite element method of high accuracy for the Sturm-Liouville problem. (Russian. English and Ukrainian summaries) **2005f:65094**

Pruess, Steven *see* **Fulton, Charles et al., 2005h:34069**

Roach, A. *see* **Hashemi, Seyed M., (2005d:65006)**

Rossokhataya, N. A. *see* **Makarov, Vladimir L. et al., 2005i:34115**

Rundell, William (*with* Sacks, Paul) Numerical technique for the inverse resonance problem. (English summary) **2005f:65090**

Sacks, Paul *see* **Rundell, William, 2005f:65090**

Sesma, Javier *see* **Gómez, Francisco Javier, 2005k:81061**

Simos, T. E. *see* **Monovasilis, Th. et al.**

Ul′yanova, V. I. *see* **Abramov, A. A. et al., 2005b:34173**

Watson, Andrew *see* **Williams, F. W. et al., 2005b:34059**

Williams, F. W. (*with* Howson, W. P.; Watson, Andrew) Application of the Wittrick-Williams algorithm to the Sturm-Liouville problem on homogeneous trees: a structural mechanics analogy. (English summary) **2005b:34059**

Yukhno, L. F. *see* **Abramov, A. A. et al., 2005b:34173**

65L20 Stability and convergence of numerical methods

Aleksandrov, A. Yu. (*with* Zhabko, A. P.) On the stability of solutions of a class of nonlinear difference schemes. (Russian. Russian summary) **2005b:65086**

Estep, Donald (*with* Tavener, Simon) Introduction. (*see* **2005h:65004**)

Gan, Si-qing (*with* Zheng, Wei Min) Stability of general linear methods for systems of functional-differential and functional equations. (English summary) **2005m:65150**

González-Casanova, Pedro *see* **Rodríguez-Gómez, Gustavo et al., 2005f:65096**

Huang, Cheng Ming² (*with* Vandewalle, Stefan) An analysis of delay-dependent stability for ordinary and partial differential equations with fixed and distributed delays. (English summary) **2005e:65106**

Iserles, Arieh Brief introduction to Lie-group methods. (*see* **2005h:65004**)

Kostishin, L. P. (*with* Shuvar, B. A.) Aggregate-iterative methods for the approximation of solutions of boundary value problems. (Ukrainian. English and Ukrainian summaries) **2005f:65095**

Li, Dong Song (*with* Liu, Ming Zhu) Asymptotic stability properties of θ-methods for the multi-pantograph delay differential equation. (English summary) **2005d:65122**

Li, Shou Fu *see* **Wang, Wen Qiang, 2005m:65151** *and* **Yu, Yue Xin, 2005m:65152**

Liu, Ming Zhu *see* **Li, Dong Song, 2005d:65122; Song, Ming Hui** *and* **Xu, Yang² et al.**

Martínez-Carballido, Jorge *see* **Rodríguez-Gómez, Gustavo et al., 2005f:65096**

Rodríguez-Gómez, Gustavo (*with* González-Casanova, Pedro; Martínez-Carballido, Jorge) Computing general companion matrices and stability regions of multirate methods. (English summary) **2005f:65096**

Shu, Chi-Wang A survey of strong stability preserving high order time discretizations. (*see* **2005h:65004**)

Shuvar, B. A. *see* **Kostishin, L. P., 2005f:65095**

Song, Ming Hui (*with* Liu, Ming Zhu) Stability of numerical solutions by θ-method for a differential equation with several delays. (Chinese. English and Chinese summaries)

Tavener, Simon *see* **Estep, Donald, (2005h:65004)**

Thalhammer, Mechthild On the convergence behaviour of variable stepsize multistep methods for singularly perturbed problems. (English summary) **2005h:65118**

Vandewalle, Stefan *see* **Huang, Cheng Ming², 2005e:65106**

Wang, Wen Qiang (*with* Li, Shou Fu) Nonlinear stability of one-leg θ-methods for delay differential equations. (Chinese. English and Chinese summaries) **2005m:65151**

Xu, Yang² (*with* Zhao, Jing Jun; Liu, Ming Zhu) TH-stability of θ-method for a second-order delay differential equation. (Chinese. English summary)

Yu, Yue Xin (*with* Li, Shou Fu) Asymptotic stability of implicit Euler method for nonlinear delay differential equations. (Chinese. English and Chinese summaries)

— (*with* Li, Shou Fu) Nonlinear stability of one-leg methods for delay differential equations. (Chinese. English and Chinese summaries) **2005m:65152**

Zhabko, A. P. *see* **Aleksandrov, A. Yu., 2005b:65086**

Zhang, Cheng-jian NGP(α)-stability of general linear methods for NDDEs. (English summary) **2005d:65123**

Zhao, Jing Jun *see* **Xu, Yang² et al.**

Zheng, Wei Min *see* **Gan, Si-qing, 2005m:65150**

Zyuzina, E. L. Stability of three-level difference schemes with respect to the right-hand side. (English and Lithuanian summaries) **2005i:65104**

Items with secondary classifications in 65L20

Abd-El-Naby, M. A. (*with* Ramadan, Mohamed A.; Mohamed, Samir T.) Spline approximation for solving system of first order delay differential equations. (English summary) **2005i:65092**

Adee, S. O. *see* **Odekunle, M. R. et al., 2005e:65093**

Ademiluyi, R. A. *see* **Odekunle, M. R. et al., 2005e:65093**

Aggarwal, Vivek K. *see* **Kadalbajoo, Mohan K., 2005i:65106**

Akça, Haydar *see* **Ashyralyev, Allaberen et al., 2005g:39015**

Aleksandrov, A. Yu. (*with* Zhabko, A. P.) Preservation of asymptotic stability in the transition from differential equations to difference equations. (English summary) **2005g:37159**

Amiraliyev, Gabil M. The convergence of a finite difference method on layer-adapted mesh for a singularly perturbed system. (English summary)

Amodio, Pierluigi (*with* Sgura, Ivonne) High-order finite difference schemes for the solution of second-order BVPs. (English summary) **2005k:65144**

Ashyralyev, Allaberen (*with* Akça, Haydar; Yeniçerioğlu, Ali Fuat) Stability properties of difference schemes for neutral differential equations. (English summary) **2005g:39015**

Aulbach, Bernd (*with* Rasmussen, Martin; Siegmund, Stefan) Approximation of attractors of nonautonomous dynamical systems. (English summary) **2005m:37042**

Auzinger, W. (*with* Hofstätter, H.; Kreuzer, Wolfgang²; Weinmüller, E.) Modified defect correction algorithms for ODEs. I. General theory. (English summary) **2005h:65096**

Bourchtein, Andrei (*with* Naumov, Maxim) Dependence of the stability of semi-implicit atmospheric models on reference temperature profile. (English summary) **2005g:86013**

Brugnano, Luigi (*with* Magherini, Cecilia) The BiM code for the numerical solution of ODEs. (English summary) **2005d:65108**

Butcher, John C. (*with* Wright, William) The construction of practical general linear methods. (English summary) **2005d:65097**

— (*with* Jackiewicz, Z.) Construction of general linear methods with Runge-Kutta stability properties. (English summary) **2005b:65077**

Cao, Wan Rong *see* **Zhao, Jing Jun et al., 2005d:65115**

Carpentieri, M. (*with* Paternoster, Beatrice) Stability regions of one step mixed collocation methods for $y'' = f(x, y)$. (English summary) **2005m:65136**

Chen-Charpentier, Benito M. *see* **Solis, Francisco Javier, 2005g:65116**

Coroian, Iulian New stable semi-explicit Runge-Kutta methods. (English summary) **2005d:65109**

Costabile, F. A. (*with* Napoli, Anna R.) Stability of Chebyshev collocation methods. (English summary) **2005h:65119**

Criado, R. *see* **Vigo-Aguiar, Jesús et al.**

Czernous, Wojciech (*with* Kamont, Z.) Implicit difference methods for parabolic functional differential equations. (English summary) **2005m:65149**

Deng, Kang *see* **Xiong, Zhi Guang**

Dieci, Luca (*with* Van Vleck, Erik S.) Lyapunov and other spectra: a survey. (*see* **2005h:65004**)

Ding, Xiao Hua (*with* Liu, Ming Zhu) Convergence of parallel diagonal iteration of Runge-Kutta methods for delay differential equations. (English summary) **2005g:65109**

Dubeau, François (*with* Ouansafi, A.; Sakat, A.) Galerkin methods for nonlinear ordinary differential equation with impulses. (English summary) **2005b:65073**

E, Wei-nan Analysis of the heterogeneous multiscale method for ordinary differential equations. **2005f:65082**

(Estep, Donald) *see* **Collected lectures on the preservation of stability under discretization, 2005h:65004**

Franco, J. M. Stability of explicit ARKN methods for perturbed oscillators. (English summary) **2005h:65105**

Ganesh, Mahadevan (*with* Grigorieff, Rolf Dieter; Mustapha, K.) Discrete Petrov-Galerkin scheme for boundary value differential and integral problems: theory and applications. (English summary) **2005k:65151**

Grigorieff, Rolf Dieter *see* **Ganesh, Mahadevan et al., 2005k:65151**

Grüne, Lars Attraction rates, robustness, and discretization of attractors. (English summary) **2005e:65084**

Guo, Qian *see* **Tian, Hongjiong, 2005a:65067**

Gustafsson, Bertil (*with* Kress, Wendy) Deferred correction methods for initial value problems. (English summary) **2005c:65053**
Harina, O. V. (*with* Zadorin, A. I.) Numerical solution of a boundary value problem for a linear system of equations with a small parameter on a half-infinite interval. (English summary) (*see* **2005i:65006**)
Herceg, Dragoslav (*with* Miloradović, Miroljub) On numerical solution of semilinear singular perturbation problems by using the Hermite scheme on a new Bakhvalov-type mesh. (English summary) **2005c:65062**
Higueras Sanz, Immaculada On strong stability preserving time discretization methods. (English summary) **2005d:65112**
Hofstätter, H. *see* **Auzinger, W. et al., 2005h:65096**
in 't Hout, K. J. (*with* Zubik-Kowal, Barbara) The stability of Radau IIA collocation processes for delay differential equations. (English summary) **2005m:65138**
Ilicasu, F. O. (*with* Schultz, David H.) High-order finite-difference techniques for linear singular perturbation boundary value problems. (English summary) **2005b:65085**
Jackiewicz, Z. *see* **Butcher, John C., 2005b:65077**
Kadalbajoo, Mohan K. (*with* Aggarwal, Vivek K.) Fitted mesh B-spline collocation method for solving self-adjoint singularly perturbed boundary value problems. (English summary) **2005i:65106**
Kamont, Z. *see* **Czernous, Wojciech, 2005m:65149**
Kress, Wendy *see* **Gustafsson, Bertil, 2005c:65053**
Kreuzer, Wolfgang² *see* **Auzinger, W. et al., 2005h:65096**
Kulikov, G. Yu. (*with* Merkulov, Arkadiĭ Igorevich) On one-step collocation methods with higher derivatives for solving ordinary differential equations. (Russian. Russian summary) **2005k:65153**
Kværnø, A. Singly diagonally implicit Runge-Kutta methods with an explicit first stage. (English summary) **2005g:65111**
Lebedev, V. I. Extremal polynomials, pseudo-difference operators, and stable explicit schemes for the solution of stiff nonstationary problems of mathematical physics. (*see* **2005i:65006**)
Li, Dong Song *see* **Liu, Ming Zhu, 2005f:34010**
Li, Qinghong (*with* Wu, Xinyuan) Two-step explicit P-stable method for periodic IVPs. (English and Chinese summaries) **2005d:65100**
Li, Shou Fu B-theory of general linear methods for Volterra functional differential equations. (English summary) **2005m:65140**
— *see also* **Wang, Wan Sheng, 2005g:34197**; **Wang, Wen Qiang, 2005m:65130** *and* **Yu, Yue Xin**
Linß, Torsten (*with* Madden, Niall) Accurate solution of a system of coupled singularly perturbed reaction-diffusion equations. (English summary) **2005k:65142**
— Layer-adapted meshes for one-dimensional reaction-convection-diffusion problems. (English summary) **2005i:65107**
Liu, Ming Zhu (*with* Li, Dong Song) Properties of analytic solution and numerical solution of multi-pantograph equation. (English summary) **2005f:34010**
— (*with* Song, Ming Hui; Yang, Zhanwen) Stability of Runge-Kutta methods in the numerical solution of equation $u'(t) = au(t) + a_0u([t])$. (English summary) **2005g:65112**
— *see also* **Zhao, Jing Jun et al., 2005d:65115**; **Ding, Xiao Hua, 2005g:65109** *and* **Xu, Yang² et al., 2005h:65106**
Lunk, Christoph (*with* Simeon, Bernd) Runge-Kutta-Nyström methods with maximized stability domain in structural dynamics. (English summary) **2005k:65132**
Madden, Niall *see* **Linß, Torsten, 2005k:65142**
Magherini, Cecilia *see* **Brugnano, Luigi, 2005d:65108**
Makazaga, J. (*with* Murua, Ander) New Runge-Kutta based schemes for ODEs with cheap global error estimation. (English summary) **2005f:65088**
Marfurt, Marco (*with* Urbani, Anna Melania) An A-stable local extrapolation method of order four. (English summary)
Martín-Vaquero, J. *see* **Vigo-Aguiar, Jesús et al.**
Mattheij, Robert M. M. *see* **Tasić, Bratislav, 2005h:65102** *and* **2005m:65129**
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Mustapha, K. *see* **Ganesh, Mahadevan et al., 2005k:65151**
Napoli, Anna R. *see* **Costabile, F. A., 2005h:65119**
Naumov, Maxim *see* **Bourchtein, Andrei, 2005g:86013**
Odekunle, M. R. (*with* Oye, N. D.; Adee, S. O.; Ademiluyi, R. A.) A class of inverse Runge-Kutta schemes for the numerical integration of singular problems. (English summary) **2005e:65093**
O'Riordan, Eugene (*with* Pickett, Maria L.; Shishkin, Grigorii I.) Singularly perturbed problems modeling reaction-convection-diffusion processes. (English summary) **2005h:65111**
Ouansafi, A. *see* **Dubeau, François et al., 2005b:65073**
Oye, N. D. *see* **Odekunle, M. R. et al., 2005e:65093**
Pandey, Rajni Kant (*with* Singh, Arvind K.) On the convergence of a finite difference method for a class of singular boundary value problems arising in physiology. (English summary) **2005a:65072**
Paternoster, Beatrice *see* **Carpentieri, M., 2005m:65136**
Pickett, Maria L. *see* **O'Riordan, Eugene et al., 2005h:65111**
Psihoyios, G. Some general formulae for the stability function of explicit advanced step-point (EAS) methods. (English summary) **2005m:65141**
— (*with* Simos, T. E.) A fourth algebraic order trigonometrically fitted predictor-corrector scheme for IVPs with oscillating solutions. (English summary) **2005k:65122**
Ramadan, Mohamed A. *see* **Abd-El-Naby, M. A. et al., 2005i:65092**
Rasmussen, Martin *see* **Aulbach, Bernd et al., 2005m:37042**
Roeger, Lih-Ing W. Local stability of Euler's and Kahan's methods. (English summary) **2005b:39019**
Sakat, A. *see* **Dubeau, François et al., 2005b:65073**
Schmitt, Bernhard A. (*with* Weiner, Rüdiger) Parallel two-step W-methods with peer variables. (English summary) **2005d:65104**
Schultz, David H. *see* **Ilicasu, F. O., 2005b:65085**
Sgura, Ivonne *see* **Amodio, Pierluigi, 2005k:65144**
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Singh, Arvind K. *see* **Pandey, Rajni Kant, 2005a:65072**
Solis, Francisco Javier (*with* Chen-Charpentier, Benito M.) Nonstandard discrete approximations preserving stability properties of continuous mathematical models. (English summary) **2005g:65116**
Song, Ming Hui *see* **Liu, Ming Zhu et al., 2005g:65112**
Sun, Geng *see* **Zhang, Cheng-jian, 2005d:65107** *and* **2005d:65114**
Tasić, Bratislav (*with* Mattheij, Robert M. M.) An explicit method for solving flows of ODE. (English summary) **2005h:65102**
— (*with* Mattheij, Robert M. M.) Explicitly solving vectorial ODEs. (English summary) **2005m:65129**
(Tavener, Simon) *see* **Collected lectures on the preservation of stability under discretization, 2005h:65004**
Tian, Hongjiong (*with* Guo, Qian) Dynamics of linear multistep methods for delay differential equations. (English summary) **2005a:65067**
Urbani, Anna Melania *see* **Marfurt, Marco**
Van Vleck, Erik S. *see* **Dieci, Luca, (2005h:65004)**
Vigo-Aguiar, Jesús (*with* Martín-Vaquero, J.; Criado, R.) On the stability of exponential fitting BDF algorithms. (English summary)
Wang, Wan Sheng (*with* Li, Shou Fu) Stability analysis of nonlinear delay differential equations of neutral type. (Chinese. English summary) **2005g:34197**
Wang, Wen Qiang (*with* Li, Shou Fu) D-convergence of one-leg methods for nonlinear stiff delay differential equations with a variable delay. (Chinese. English summary) **2005m:65130**
— *see also* **Xiao, Fei Yan**
Weiner, Rüdiger *see* **Schmitt, Bernhard A., 2005d:65104**
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Wu, Xinyuan *see* **Li, Qinghong, 2005d:65100**
Xiao, Fei Yan (*with* Wang, Wen Qiang) Asymptotic stability of Runge-Kutta methods for nonlinear multi-delay differential equations. (Chinese. English and Chinese summaries)
Xiong, Zhi Guang (*with* Deng, Kang) Ultraconvergence of finite element derivative recovery for a two-point boundary problem. (Chinese. English and Chinese summaries)
Xu, Yang² (*with* Zhao, Jing Jun; Liu, Ming Zhu) $\mathscr{H}$-stability of Runge-Kutta methods with variable stepsize for system of pantograph equations. (English summary) **2005h:65106**
— (*with* Liu, Ming Zhu; Zhao, Jing Jun) GP_d—stability of multistep Runge-Kutta method for neutral delay differential equations. (Chinese. English and Chinese summaries)
Yang, Zhanwen *see* **Liu, Ming Zhu et al., 2005g:65112**
Yao, Qing Liu Monotone iterative method for a class of nonlinear second-order three-point boundary value problems. (Chinese. English summary) **2005e:65100**
Yeniçerioğlu, Ali Fuat *see* **Ashyralyev, Allaberen et al., 2005g:39015**
Yu, Yue Xin (*with* Li, Shou Fu) Contractivity of implicit Euler method for delay differential equations. (English and Chinese summaries)
Zadorin, A. I. *see* **Harina, O. V., (2005i:65006)**
Zhabko, A. P. *see* **Aleksandrov, A. Yu., 2005g:37159**
Zhang, Cheng-jian (*with* Sun, Geng) Boundedness and asymptotic stability of multistep methods for generalized pantograph equations. (English summary) **2005d:65107**
— (*with* Sun, Geng) Nonlinear stability of Runge-Kutta methods applied to infinite-delay-differential equations. (English summary) **2005d:65114**
Zhao, Jing Jun (*with* Cao, Wan Rong; Liu, Ming Zhu) Asymptotic stability of Runge-Kutta methods for the pantograph equations. (English summary) **2005d:65115**
— *see also* **Xu, Yang² et al., 2005h:65106**
Zhao, Qing Hua *see* **Zhu, Qi Ding, 2005a:65078**
Zhu, Qi Ding (*with* Zhao, Qing Hua) SPR technique and finite element correction. (English summary) **2005a:65078**
Zubik-Kowal, Barbara *see* **in 't Hout, K. J., 2005m:65138**

Items listed otherwise than by author

Collected lectures on the preservation of stability under discretization ★ Collected lectures on the preservation of stability under discretization. **2005h:65004**
Fort Collins, CO ★ Collected lectures on the preservation of stability under discretization. **2005h:65004**

65L50 Mesh generation and refinement

Gear, C. William *see* **Kevrekidis, Ioannis G. et al., 2005a:65075**
Hyman, James M. *see* **Kevrekidis, Ioannis G. et al., 2005a:65075**
Kevrekidis, Ioannis G. (*with* Gear, C. William; Hyman, James M.; Kevrekidis, Panayotis G.; Runborg, Olof; Theodoropoulos, Constantinos) Equation-free, coarse-grained multiscale computation: enabling microscopic simulators to perform system-level analysis. (English summary) **2005a:65075**
Kevrekidis, Panayotis G. *see* **Kevrekidis, Ioannis G. et al., 2005a:65075**
Mazzia, Francesca (*with* Trigiante, Donato) A hybrid mesh selection strategy based on conditioning for boundary value ODE problems. (English summary) **2005f:65097**
Moore, Peter K. An implicit interpolation error-based error estimation strategy for hp-adaptivity in one space dimension. (English summary) **2005b:65087**
Runborg, Olof *see* **Kevrekidis, Ioannis G. et al., 2005a:65075**
Theodoropoulos, Constantinos *see* **Kevrekidis, Ioannis G. et al., 2005a:65075**
Trigiante, Donato *see* **Mazzia, Francesca, 2005f:65097**

Items with secondary classifications in 65L50

Anderson, Michael Lindsay *see* **Carey, Graham F. et al., 2005a:65146**
Bartoszewski, Z. (*with* Jackiewicz, Z.) Nordsieck representation of two-step Runge-Kutta methods for ordinary differential equations. (English summary) **2005k:65124**

Bellen, Alfredo (*with* Zennaro, Marino) Adaptive integration of delay differential equations. (English summary) (*see* **2005d:93003**)
Bellew, S. (*with* O'Riordan, Eugene) A parameter robust numerical method for a system of two singularly perturbed convection-diffusion equations. (English summary) **2005e:65102**
Bertoluzza, Silvia *see* **Hoffman, Johan et al., 2005h:65107**
Cannon, John R. *see* **El-Gamel, Mohamed, 2005k:65150**
Cao, Yang² (*with* Petzold, Linda R.) A posteriori error estimation and global error control for ordinary differential equations by the adjoint method. (English summary) **2005m:65135**
Carey, Graham F. (*with* Anderson, Michael Lindsay; Carnes, B.; Kirk, Benjamin S.) Some aspects of adaptive grid technology related to boundary and interior layers. (English summary) **2005a:65146**
Carnes, B. *see* **Carey, Graham F. et al., 2005a:65146**
Clavero Gracia, Carmelo (*with* Gracia, J. L.) HODIE finite difference schemes on generalized Shishkin meshes. (English summary) **2005b:65084**
El-Gamel, Mohamed (*with* Cannon, John R.) On the solution of a second order singularly-perturbed boundary value problem by the sinc-Galerkin method. (English summary) **2005k:65150**
Eriksson, Kenneth (*with* Johnson, Claes; Logg, Anders) Explicit time-stepping for stiff ODEs. (English summary) **2005c:65052**
Farrell, P. A. (*with* Hegarty, Alan F.; Miller, J. J. H.; O'Riordan, Eugene; Shishkin, Grigorii I.) Global maximum norm parameter-uniform numerical method for a singularly perturbed convection-diffusion problem with discontinuous convection coefficient. (English summary) **2005m:65146**
Gracia, J. L. *see* **Clavero Gracia, Carmelo, 2005b:65084**
Hegarty, Alan F. *see* **Farrell, P. A. et al., 2005m:65146**
Hoffman, Johan (*with* Johnson, Claes; Bertoluzza, Silvia) Subgrid modeling for convection-diffusion-reaction in one space dimension using a Haar multiresolution analysis. (English summary) **2005h:65107**
Hojjati, G. (*with* Rahimi Ardabili, M. Y.; Hosseini, S. Mohammad) A-EBDF: an adaptive method for numerical solution of stiff systems of ODEs. (English summary) **2005c:65054**
Hosseini, S. Mohammad *see* **Hojjati, G. et al., 2005c:65054**
Jackiewicz, Z. *see* **Bartoszewski, Z., 2005k:65124**
Johnson, Claes *see* **Eriksson, Kenneth et al., 2005c:65052** *and* **Hoffman, Johan et al., 2005h:65107**
Kirk, Benjamin S. *see* **Carey, Graham F. et al., 2005a:65146**
Kokkolaras, Michael (*with* Meade, Andrew J., Jr.; Zeldin, Boris) Concurrent implementation of the optimal incremental approximation method for the adaptive and meshless solution of differential equations. (English summary) **2005a:65076**
Kopteva, N. V. (*with* Stynes, Martin) Numerical analysis of a singularly perturbed nonlinear reaction-diffusion problem with multiple solutions. (English summary) **2005e:65097**
Kulikov, G. Yu. (*with* Shindin, S. K.) Extrapolated multistep methods and local-global step size control. (English summary) (*see* **2005c:00014**)
Linß, Torsten (*with* Madden, Niall) An improved error estimate for a numerical method for a system of coupled singularly perturbed reaction-diffusion equations. (English summary) **2005e:65105**
— Layer-adapted meshes for one-dimensional reaction-convection-diffusion problems. (English summary) **2005i:65107**
Logg, Anders Multi-adaptive Galerkin methods for ODEs. II. Implementation and applications. (English summary) **2005a:65077**
— *see also* **Eriksson, Kenneth et al., 2005c:65052**
Mac Mullen, Helen (*with* Shishkin, Grigorii I.) An ε-uniform discrete non-overlapping domain decomposition method for a singularly perturbed convection-diffusion problem. (English summary) (*see* **2005i:65006**)
Madden, Niall *see* **Linß, Torsten, 2005e:65105**
Meade, Andrew J., Jr. *see* **Kokkolaras, Michael et al., 2005a:65076**
Miller, J. J. H. *see* **Farrell, P. A. et al., 2005m:65146**
O'Riordan, Eugene *see* **Bellew, S., 2005e:65102** *and* **Farrell, P. A. et al., 2005m:65146**
Petzold, Linda R. *see* **Cao, Yang², 2005m:65135**
Rahimi Ardabili, M. Y. *see* **Hojjati, G. et al., 2005c:65054**
Ramos, Higinio (*with* Vigo-Aguiar, Jesús) A note on step-size selection in the Störmer-Cowell methods. (English summary)
Roos, Hans-Görg (*with* Uzelac, Zorica) The SDFEM for a convection-diffusion problem with two small parameters. (English summary) **2005c:65061**
Shampine, L. F. Solving ODEs and DDEs with residual control. (English summary)
Shindin, S. K. *see* **Kulikov, G. Yu., (2005c:00014)**
Shishkin, Grigorii I. On conditioning of a Schwarz method for singularly perturbed convection-diffusion equations in the case of disturbances in the data of the boundary-value problem. (English summary) **2005b:65082**
— *see also* **Farrell, P. A. et al., 2005m:65146** *and* **Mac Mullen, Helen, (2005i:65006)**
Stynes, Martin *see* **Kopteva, N. V., 2005e:65097**
Uzelac, Zorica *see* **Roos, Hans-Görg, 2005c:65061**
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Zeldin, Boris *see* **Kokkolaras, Michael et al., 2005a:65076**
Zennaro, Marino *see* **Bellen, Alfredo, (2005d:93003)**

65L60 Finite elements, Rayleigh-Ritz, Galerkin and collocation methods

Aggarwal, Vivek K. *see* **Kadalbajoo, Mohan K., 2005i:65105** *and* **2005i:65106**
Ainsworth, Mark Dispersive properties of high order finite elements. (English summary) (*see* **2005b:00020**)
Aribisala, B. S. *see* **Ibijola, E. A. et al.**
Atluri, Satya N. (*with* Shen, Shengping) Simulation of a 4th order ODE: illustration of various primal & mixed MLPG methods. (English summary)
Baltensperger, Richard *see* **Berrut, Jean-Paul, 2005d:65124**
Berrut, Jean-Paul (*with* Baltensperger, Richard) The linear rational pseudospectral method for boundary value problems. (English summary) **2005d:65124**
— (*with* Mittelmann, Hans D.) Optimized point shifts and poles in the linear rational pseudospectral method for boundary value problems. (English summary) **2005j:65074**
Bowers, Kenneth L. *see* **Koonprasert, Sanoe, 2005h:65120**
Caliò, F. (*with* Marchetti, E.; Pavani, R.) About the deficient spline collocation method for particular differential and integral equations with delay. (English summary) **2005d:65125**
Cannon, John R. *see* **El-Gamel, Mohamed et al., 2005d:65126** *and* **2005k:65150**
Chen, Chang-New Extended GDQ and related discrete element analysis methods for transient analyses of continuum mechanics problems. (English summary) **2005e:65107**
Chen, Chuan Miao *see* **Li, Tian Ran, 2005k:65154**
Costabile, F. A. (*with* Napoli, Anna R.) Stability of Chebyshev collocation methods. (English summary) **2005h:65119**
Deng, Kang *see* **Xiong, Zhi Guang**
Duan, Xian Bao (*with* Feng, Wei Bing) Variational finite element method analysis for one-dimensional variable-domain Poisson problem. (Chinese. English and Chinese summaries)
El-Gamel, Mohamed (*with* Zayed, Ahmed I.) Sinc-Galerkin method for solving nonlinear boundary-value problems. (English summary) **2005k:65149**
— (*with* Cannon, John R.; Zayed, Ahmed I.) Sinc-Galerkin method for solving linear sixth-order boundary-value problems. (English summary) **2005d:65126**
— (*with* Cannon, John R.) On the solution of a second order singularly-perturbed boundary value problem by the sinc-Galerkin method. (English summary) **2005k:65150**
Feng, Wei Bing *see* **Duan, Xian Bao**
Ganesh, Mahadevan (*with* Grigorieff, Rolf Dieter; Mustapha, K.) Discrete Petrov-Galerkin scheme for boundary value differential and integral problems: theory and applications. (English summary) **2005k:65151**
Grigorieff, Rolf Dieter *see* **Ganesh, Mahadevan et al., 2005k:65151**
Guglielmi, Nicola On the Newton iteration in the application of collocation methods to implicit delay equations. (English summary) **2005k:65152**
Ibijola, E. A. (*with* Aribisala, B. S.; Imoni, S. O.) On a one step method based on a linear combination of exponential functions. (English summary)
Imoni, S. O. *see* **Ibijola, E. A. et al.**
Johnson, Richard Wayne Higher order B-spline collocation at the Greville abscissae. (English summary)
Kadalbajoo, Mohan K. (*with* Aggarwal, Vivek K.) Cubic spline for solving singular two-point boundary value problems. (English summary) **2005i:65105**
— (*with* Aggarwal, Vivek K.) Fitted mesh B-spline collocation method for solving self-adjoint singularly perturbed boundary value problems. (English summary) **2005i:65106**
Kashuba, E. V. (*with* Rukavishnikov, V. A.) Estimate for the error of the p-version of the finite element method for a boundary value problem with a singularity. (English summary) (*see* **2005i:65006**)
Khan, Arshad Parametric cubic spline solution of two point boundary value problems. (English summary) **2005c:65064**
Kokkolaras, Michael (*with* Meade, Andrew J., Jr.; Zeldin, Boris) Concurrent implementation of the optimal incremental approximation method for the adaptive and meshless solution of differential equations. (English summary) **2005a:65076**
Koonprasert, Sanoe (*with* Bowers, Kenneth L.) Block matrix sinc-Galerkin solution of the wind-driven current problem. (English summary) **2005h:65120**
Kulikov, G. Yu. (*with* Merkulov, Arkadiĭ Igorevich) On one-step collocation methods with higher derivatives for solving ordinary differential equations. (Russian. Russian summary) **2005k:65153**
Li, Tian Ran (*with* Chen, Chuan Miao) Superconvergence of C^0-continuous finite elements in solving an initial value problem for an ordinary differential equation of second order. (Chinese. English and Chinese summaries) **2005k:65154**
Ling, Leevan (*with* Trummer, M. R.) Multiquadratic collocation method with integral formulation for boundary layer problems. (English summary) **2005k:65155**
Linß, Torsten Layer-adapted meshes for one-dimensional reaction-convection-diffusion problems. (English summary) **2005i:65107**
Logg, Anders Multi-adaptive Galerkin methods for ODEs. II. Implementation and applications. (English summary) **2005a:65077**
Mai-Duy, Nam Solving high order ordinary differential equations with radial basis function networks. (English summary) **2005i:65108**
Marchetti, E. *see* **Caliò, F. et al., 2005d:65125**
Meade, Andrew J., Jr. *see* **Kokkolaras, Michael et al., 2005a:65076**
Merkulov, Arkadiĭ Igorevich *see* **Kulikov, G. Yu., 2005k:65153**
Mittelmann, Hans D. *see* **Berrut, Jean-Paul, 2005j:65074**
Mustapha, K. *see* **Ganesh, Mahadevan et al., 2005k:65151**
Napoli, Anna R. *see* **Costabile, F. A., 2005h:65119**
Nikolis, Athanassios Numerical solutions of ordinary differential equations with quadratic trigonometric splines. (English summary) **2005h:65121**
Pavani, R. *see* **Caliò, F. et al., 2005d:65125**
Pittaluga, G. (*with* Sacripante, L.; Venturino, E.) A collocation method for linear fourth order boundary value problems. (English summary) **2005d:65127**
Rebeleș, Magnolia A matrix method for obtaining the spline collocation function. (English summary) **2005m:65153**
Rukavishnikov, V. A. *see* **Kashuba, E. V., (2005i:65006)**
Sacripante, L. *see* **Pittaluga, G. et al., 2005d:65127**
Sakas, D. P. (*with* Simos, T. E.) Trigonometrically-fitted multiderivative methods for the numerical solution of the radial Schrödinger equation. (English summary) **2005m:65154**
Shen, Shengping *see* **Atluri, Satya N.**
Simos, T. E. *see* **Sakas, D. P., 2005m:65154**
Surla, Katarina *see* **Uzelac, Zorica, 2005d:65128**
Trummer, M. R. *see* **Ling, Leevan, 2005k:65155**
Uzelac, Zorica (*with* Surla, Katarina) A uniformly accurate collocation method for a singularly perturbed problem. (English summary) **2005d:65128**
Venturino, E. *see* **Pittaluga, G. et al., 2005d:65127**
Xiong, Zhi Guang (*with* Deng, Kang) Ultraconvergence of finite element derivative recovery for a two-point boundary problem. (Chinese. English and Chinese summaries)
Zayed, Ahmed I. *see* **El-Gamel, Mohamed et al., 2005d:65126** *and* **2005k:65149**

Zeldin, Boris *see* **Kokkolaras, Michael et al., 2005a:65076**
Zhao, Qing Hua *see* **Zhu, Qi Ding, 2005a:65078**
Zhu, Qi Ding (*with* Zhao, Qing Hua) SPR technique and finite element correction. (English summary) **2005a:65078**

Items with secondary classifications in 65L60

Abe, Ryohei *see* **Hashimoto, Kouji et al., 2005j:34082**
Abu-Saman, Awni Collocation methods for linear two-point boundary value problems by monomials. (English summary) **2005k:65137**
Ackad, E. (*with* Horbatsch, M.) Numerical solution of the Dirac equation by a mapped Fourier grid method. (English summary) **2005k:81054**
Aggarwal, Vivek K. *see* **Kadalbajoo, Mohan K., 2005k:65141**
Al-Khaled, Kamel Numerical solutions of singular two-point boundary value problems via the sinc method. (English summary) **2005e:65095**
Baty, R. S. *see* **Tucker, D. H., 2005h:34070**
Bui, Q. V. Energy conserving and dissipative time finite element schemes for N-body stiff problems. (English summary) **2005e:70001**
Chechel′, I. I. *see* **Pal′tsev, B. V., 2005m:65277**
Chen, Chuan Miao *see* **Xie, Zi-qing, 2005d:58022**
Cox, Steven J. (*with* Raol, Jay H.) Recovering the passive properties of tapered dendrites from single and dual potential recordings. (English summary) **2005b:92008**
Dubeau, François (*with* Ouansafi, A.; Sakat, A.) Galerkin methods for nonlinear ordinary differential equation with impulses. (English summary) **2005b:65073**
Fix, George J., III (*with* Roop, J. P.) Least squares finite-element solution of a fractional order two-point boundary value problem. (English summary) **2005k:65140**
Ghoreishi, F. (*with* Hosseini, S. Mohammad) The Tau method and a new preconditioner. (English summary) **2005b:65080**
Hashimoto, Kouji (*with* Abe, Ryohei; Nakao, Mitsuhiro T.; Watanabe, Yoshitaka) A numerical verification method for solutions of singularly perturbed problems with nonlinearity. (English summary) **2005j:34082**
Horbatsch, M. *see* **Ackad, E., 2005k:81054**
Hosseini, S. Mohammad *see* **Ghoreishi, F., 2005b:65080**
Jha, Navnit *see* **Mohanty, R. K. et al., 2005h:65110**
Kadalbajoo, Mohan K. (*with* Aggarwal, Vivek K.) Numerical solution of singular boundary value problems via Chebyshev polynomial and B-spline. (English summary) **2005k:65141**
Kargarnovin, M. H. (*with* Mehri, B.; Younesian, D.) Response of a suspended cable to narrow-band random excitation with peaked P.S.D. (English summary) **2005m:74045**
Lepik, Ülo Numerical solution of differential equations using Haar wavelets. (English summary) **2005m:65148**
Mehri, B. *see* **Kargarnovin, M. H. et al., 2005m:74045**
Mohanty, R. K. (*with* Sachdev, P. L.; Jha, Navnit) An $O(h^4)$ accurate cubic spline TAGE method for nonlinear singular two point boundary value problems. (English summary) **2005h:65110**
Moore, Gerald Laguerre approximation of stable manifolds with application to connecting orbits. (English summary) **2005f:37185**
Nakao, Mitsuhiro T. *see* **Hashimoto, Kouji et al., 2005j:34082**
Ouansafi, A. *see* **Dubeau, François et al., 2005b:65073**
Pal′tsev, B. V. (*with* Chechel′, I. I.) On finite element approximations, which are of linear and second-order accuracy up to poles type, of the Laplace-Beltrami, gradient, and divergence operators on a sphere in $\mathbb{R}^3$ in the axisymmetric case. (Russian) **2005m:65277**
Raol, Jay H. *see* **Cox, Steven J., 2005b:92008**
Roop, J. P. *see* **Fix, George J., III, 2005k:65140**
Roos, Hans-Görg (*with* Uzelac, Zorica) The SDFEM for a convection-diffusion problem with two small parameters. (English summary) **2005c:65061**
Sachdev, P. L. *see* **Mohanty, R. K. et al., 2005h:65110**
Sakat, A. *see* **Dubeau, François et al., 2005b:65073**
Selva Soto, Monica (*with* Tischendorf, Caren) Numerical analysis of DAEs from coupled circuit and semiconductor simulation. (English summary) **2005k:65158**
Surla, Katarina (*with* Uzelac, Zorica) A uniformly accurate spline collocation method for a normalized flux. (English summary) **2005b:65083**
Tischendorf, Caren *see* **Selva Soto, Monica, 2005k:65158**
Tucker, D. H. (*with* Baty, R. S.) Cesàro-one summability and uniform convergence of solutions of a Sturm-Liouville system. (English summary) **2005h:34070**
Uzelac, Zorica *see* **Surla, Katarina, 2005b:65083** *and* **Roos, Hans-Görg, 2005c:65061**
Watanabe, Yoshitaka *see* **Hashimoto, Kouji et al., 2005j:34082**
Xie, Zi-qing (*with* Chen, Chuan Miao) Multiple solutions and its Morse index for one-dimensional nonlinear problem. (English summary) **2005d:58022**
Younesian, D. *see* **Kargarnovin, M. H. et al., 2005m:74045**

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Collis, Jon (*with* Van Vleck, Erik S.) Efficient numerical shadowing global error estimation for high dimensional dissipative systems. (English summary) **2005m:65155**
Van Vleck, Erik S. *see* **Collis, Jon, 2005m:65155**

Items with secondary classifications in 65L70

Ainsworth, Mark Dispersive properties of high order finite elements. (English summary) (*see* **2005b:00020**)
Al-Khaled, Kamel Numerical solutions of singular two-point boundary value problems via the sinc method. (English summary) **2005e:65095**
Calvo Pinilla, M. Backward error analysis of numerical methods for ODEs and Lie-Hori perturbation theory. (English summary) **2005k:65116**
Cao, Yang² (*with* Petzold, Linda R.) A posteriori error estimation and global error control for ordinary differential equations by the adjoint method. (English summary) **2005m:65135**
Clavero Gracia, Carmelo (*with* Gracia, J. L.; Jorge, J. C.) High-order numerical methods for one-dimensional parabolic singularly perturbed problems with regular layers. (English summary) **2005h:65130**
Diethelm, Kai (*with* Ford, Neville J.; Freed, Alan D.) Detailed error analysis for a fractional Adams method. (English summary) **2005d:65110**
Ford, Neville J. *see* **Diethelm, Kai et al., 2005d:65110**
Freed, Alan D. *see* **Diethelm, Kai et al., 2005d:65110**
Gracia, J. L. *see* **Clavero Gracia, Carmelo et al., 2005h:65130**
Jorge, J. C. *see* **Clavero Gracia, Carmelo et al., 2005h:65130**
Kashuba, E. V. (*with* Rukavishnikov, V. A.) Estimate for the error of the p-version of the finite element method for a boundary value problem with a singularity. (English summary) (*see* **2005i:65006**)
Kulikov, G. Yu. (*with* Shindin, S. K.) On the efficient computation of asymptotically sharp estimates for local and global errors in multistep methods with constant coefficients. (Russian. Russian summary) **2005k:65131**
Linß, Torsten Error expansion for a first-order upwind difference scheme applied to a model convection-diffusion problem. (English summary) **2005a:65071**
Logg, Anders Multi-adaptive Galerkin methods for ODEs. II. Implementation and applications. (English summary) **2005a:65077**
Loseva, M. V. *see* **Prikazchikov, V. G., 2005f:65094**
Mattheij, Robert M. M. *see* **Tasić, Bratislav, 2005h:65102**
Moore, Peter K. An implicit interpolation error-based error estimation strategy for hp-adaptivity in one space dimension. (English summary) **2005b:65087**
Muir, P. H. *see* **Shampine, L. F., 2005k:65143**
Ono, Harumi (*with* Yoshida, Toshinobu) Two-stage explicit Runge-Kutta type methods using derivatives. (English summary) **2005e:65094**
O'Riordan, Eugene (*with* Pickett, Maria L.; Shishkin, Grigorii I.) Singularly perturbed problems modeling reaction-convection-diffusion processes. (English summary) **2005h:65111**
Petzold, Linda R. *see* **Cao, Yang², 2005m:65135**
Pickett, Maria L. *see* **O'Riordan, Eugene et al., 2005h:65111**
Prikazchikov, V. G. (*with* Loseva, M. V.) A finite element method of high accuracy for the Sturm-Liouville problem. (Russian. English and Ukrainian summaries) **2005f:65094**
Roos, Hans-Görg (*with* Uzelac, Zorica) The SDFEM for a convection-diffusion problem with two small parameters. (English summary) **2005c:65061**
Rukavishnikov, V. A. *see* **Kashuba, E. V., (2005i:65006)**
Shampine, L. F. (*with* Muir, P. H.) Estimating conditioning of BVPs for ODEs. (English summary) **2005k:65143**
Shindin, S. K. *see* **Kulikov, G. Yu., 2005k:65131**
Shishkin, Grigorii I. *see* **O'Riordan, Eugene et al., 2005h:65111**
Surla, Katarina (*with* Uzelac, Zorica) A uniformly accurate spline collocation method for a normalized flux. (English summary) **2005b:65083**
Tasić, Bratislav (*with* Mattheij, Robert M. M.) An explicit method for solving flows of ODE. (English summary) **2005h:65102**
Uzelac, Zorica *see* **Surla, Katarina, 2005b:65083** *and* **Roos, Hans-Görg, 2005c:65061**
Yoshida, Toshinobu *see* **Ono, Harumi, 2005e:65094**

65L80 Methods for differential-algebraic equations

Arévalo, C. (*with* Campbell, S. L.; Selva Soto, Monica) Unitary partitioning in general constraint preserving DAE integrators. (English summary) **2005m:65156**
Ayaz, Fatma Applications of differential transform method to differential-algebraic equations. (English summary) **2005e:65109**
Bayram, Mustafa *see* **Çelik, Ercan, 2005i:65109** *and* **2005i:65110**
Benderskaya, G. Ya. (*with* De Gersem, Herbert; Weiland, Thomas; Clemens, Markus) Transient field-circuit coupled formulation based on the finite integration technique and a mixed circuit formulation. (English summary)
— *see also* **Kulikov, G. Yu., (2005i:65006)**
Bock, Hans Georg *see* **Schäfer, Andreas³ et al., (2005d:90005)**
Brandt-Pollmann, Ulrich *see* **Schäfer, Andreas³ et al., (2005d:90005)**
Bulatov, M. V. Numerical solution of differential-algebraic equations by block methods. (English summary) (*see* **2005c:00015**)
Campbell, S. L. *see* **Arévalo, C. et al., 2005m:65156**
Çelik, Ercan (*with* Bayram, Mustafa) Numerical solution of differential-algebraic equation systems and applications. (English summary) **2005i:65109**
— On the numerical solution of differential-algebraic equations with index-2. (English summary) **2005g:65117**
— (*with* Bayram, Mustafa) The numerical solution of physical problems modeled as a system of differential-algebraic equations (DAEs). (English summary) **2005i:65110**
Chan, R. P. K. (*with* Chartier, Philippe; Murua, Ander) Reversible methods of Runge-Kutta type for index-2 DAEs. (English summary) **2005b:65088**
Chartier, Philippe *see* **Chan, R. P. K. et al., 2005b:65088**
Clemens, Markus *see* **Benderskaya, G. Ya. et al.**
Coffey, Todd S. (*with* Kelley, Carl T.; Keyes, David E.) Pseudotransient continuation and differential-algebraic equations. (English summary) **2005e:65110**
Coroian, Dan I. Improved outer inverses for the numerical solution of Euler-Lagrange equations. (English summary) **2005k:65156**
De Gersem, Herbert *see* **Benderskaya, G. Ya. et al.**
Diehl, Moritz *see* **Schäfer, Andreas³ et al., (2005d:90005)**
Gorbunov, Vladimir K. (*with* Lutoshkin, Igor V.) The parameterization method in singular differential-algebraic equations. (English summary) (*see* **2005c:00015**)
Govindjee, Sanjay *see* **Vijalapura, Prashanth K. et al., 2005k:65160**
Gridin, V. N. (*with* Mikhaĭlov, V. B.; Kupriyanov, G. A.; Mikhaĭlov, K. V.) Stable numerical-analytic methods for solving superstiff differential-algebraic equations. (Russian. English and Russian summaries) **2005b:65089**
Günther, Michael M. Preconditioned splitting in dynamic iteration schemes for coupled DAE systems in RC network design. (English summary) (*see* **2005a:00022**)
— *see also* **Striebel, Michael, 2005k:65159**
Hosseini Aliabadi, M. M. Reducing index method for differential-algebraic equations with constraint singularities. (English summary) **2005e:65108**
— Numerical solution of linear differential-algebraic equations. (English summary) **2005k:65157**

Jiang, Yao-Lin On time-domain simulation of lossless transmission lines with nonlinear terminations. (English summary) **2005i:65111**
Kelley, Carl T. *see* **Coffey, Todd S. et al., 2005e:65110**
Keyes, David E. *see* **Coffey, Todd S. et al., 2005e:65110**
Kulikov, G. Yu. (*with* Benderskaya, G. Ya.) Effective numerical solution of large-scale index 1 differential-algebraic systems. (English summary) (*see* **2005i:65006**)
— One-step methods and implicit extrapolation technique for index 1 differential-algebraic systems. (English summary) **2005j:65075**
Kunkel, Peter (*with* Mehrmann, Volker; Stöver, Ronald) Symmetric collocation for unstructured nonlinear differential-algebraic equations of arbitrary index. (English summary) **2005e:65111**
Kupriyanov, G. A. *see* **Gridin, V. N. et al., 2005b:65089**
Lutoshkin, Igor V. *see* **Gorbunov, Vladimir K., (2005c:00015)**
Mastroserio, C. (*with* Politi, T.) Applying stabilization techniques to orthogonal gradient flows. (English summary) (*see* **2005c:00015**)
Mehrmann, Volker *see* **Kunkel, Peter et al., 2005e:65111**
Mikhaĭlov, K. V. *see* **Gridin, V. N. et al., 2005b:65089**
Mikhaĭlov, V. B. *see* **Gridin, V. N. et al., 2005b:65089**
Murua, Ander *see* **Chan, R. P. K. et al., 2005b:65088**
Politi, T. *see* **Mastroserio, C., (2005c:00015)**
Schäfer, Andreas[3] (*with* Brandt-Pollmann, Ulrich; Diehl, Moritz; Bock, Hans Georg; Schlöder, Johannes P.) Fast optimal control algorithms with application to chemical engineering. (English summary) (*see* **2005d:90005**)
Schlöder, Johannes P. *see* **Schäfer, Andreas[3] et al., (2005d:90005)**
Selva Soto, Monica (*with* Tischendorf, Caren) Numerical analysis of DAEs from coupled circuit and semiconductor simulation. (English summary) **2005k:65158**
— *see also* **Arévalo, C. et al., 2005m:65156**
Stöver, Ronald *see* **Kunkel, Peter et al., 2005e:65111**
Strain, John *see* **Vijalapura, Prashanth K. et al., 2005k:65160**
Striebel, Michael (*with* Günther, Michael M.) A charge oriented mixed multirate method for a special class of index-1 network equations in chip design. (English summary) **2005k:65159**
Tischendorf, Caren *see* **Selva Soto, Monica, 2005k:65158**
Vijalapura, Prashanth K. (*with* Strain, John; Govindjee, Sanjay) Fractional step methods for index-1 differential-algebraic equations. (English summary) **2005k:65160**
Weiland, Thomas *see* **Benderskaya, G. Ya. et al.**
Wensch, Jörg Krylov-ROW methods for DAEs of index 1 with applications to viscoelasticity. (English summary) **2005k:65161**

Items with secondary classifications in 65L80

Debrabant, K. (*with* Strehmel, Karl) Convergence of Runge-Kutta methods applied to linear partial differential-algebraic equations. (English summary) **2005k:65125**
Feldmann, Uwe[2] *see* **Günther, Michael M. et al.**
Günther, Michael M. (*with* Feldmann, Uwe[2]; ter Maten, E. Jan W.) Modelling and discretization of circuit problems.
Higueras Sanz, Immaculada (*with* März, Roswitha) Differential algebraic equations with properly stated leading terms. (English summary) **2005e:34003**
Jay, Laurent O. Preserving Poisson structure and orthogonality in numerical integration of differential equations. (English summary) **2005f:37179**
Jiang, Yao-Lin Waveform relaxation methods of nonlinear integral-differential-algebraic equations. (English summary) **2005k:45021**
Kofman, Ernesto Discrete event simulation of hybrid systems. (English summary) **2005i:93058**
Kunkel, Peter (*with* Mehrmann, Volker) Index reduction for differential-algebraic equations by minimal extension. (English summary) **2005d:34008**
Le Cong Loi *see* **Pham Ky Anh et al., 2005d:65103**
Lucht, W. Partial differential-algebraic systems of second order with symmetric convection. (English summary) **2005j:35021**
März, Roswitha *see* **Higueras Sanz, Immaculada, 2005e:34003**
ter Maten, E. Jan W. *see* **Günther, Michael M. et al.**
Mehrmann, Volker *see* **Kunkel, Peter, 2005d:34008**
Nguyễn Hữu Dư *see* **Pham Ky Anh et al., 2005d:65103**
Pham Ky Anh (*with* Nguyễn Hữu Dư; Le Cong Loi) Connections between implicit difference equations and differential-algebraic equations. (English summary) **2005d:65103**
Schaffer, Andrei Stability of the adjoint differential-algebraic equation of the index-3 multibody system equation of motion. (English summary) **2005k:93138**
Strehmel, Karl *see* **Debrabant, K., 2005k:65125**

65L99 None of the above, but in this section

Abbasbandy, S. (*with* Allah Viranloo, Tofigh; López-Pouso, Óscar; Nieto Roig, Juan José) Numerical methods for fuzzy differential inclusions. (English summary) **2005i:65112**
Abdel-Naby, Ahmed *see* **El-Tawil, Magdy A. et al., 2005d:65129**
Al-Hayani, Waleed (*with* Casasús Latorre, Luis) The Adomian decomposition method in turning point problems. (English summary) **2005j:65076**
Al-Khaled, Kamel Numerical approximations for population growth models. (English summary) **2005i:65113**
— *see also* **Momani, Shaher**
Allah Viranloo, Tofigh *see* **Abbasbandy, S. et al., 2005i:65112**
Aruliah, D. A. (*with* Corless, Robert M.) Numerical parameterization of affine varieties using ODEs. (English summary) (*see* **2005i:68002**)
Bahnasawi, Ahmed A. *see* **El-Tawil, Magdy A. et al., 2005d:65129**
Barrio, Roberto Performance of the Taylor series method for ODEs/DAEs. (English summary)
Belkhouche, Boumediene *see* **Belkhouche, Fethi**
Belkhouche, Fethi (*with* Belkhouche, Boumediene) Successive linearizations of second order multidimensional time-invariant systems. (English summary)
Benabidallah, Mohamed (*with* Cherruault, Yves) Application of the Adomian method for solving a class of boundary problems. (English summary) **2005i:65114**
Casasús Latorre, Luis *see* **Al-Hayani, Waleed, 2005j:65076**
Chen, Wenhai (*with* Lu, Zhengyi) An algorithm for Adomian decomposition method. (English summary) **2005e:65112**
Cherruault, Yves *see* **Benabidallah, Mohamed, 2005i:65114**
Corless, Robert M. *see* **Aruliah, D. A., (2005i:68002)**
Daftardar-Gejji, Varsha (*with* Jafari, Hossein) Adomian decomposition: a tool for solving a system of fractional differential equations. (English summary) **2005j:65077**
Dhooge, Annick (*with* Govaerts, Willy; Kuznetsov, Yuriĭ Aleksandrovich) Numerical continuation of fold bifurcation of limit cycles in MATCONT. (English summary) (*see* **2005c:00014**)
Dulov, Eugene V. (*with* Sinitsyn, Aleksandr) A numerical modelling of the limit problem for the magnetically noninsulated diode. (English summary) **2005h:65122**
El-Tawil, Magdy A. (*with* Bahnasawi, Ahmed A.; Abdel-Naby, Ahmed) Solving Riccati differential equation using Adomian's decomposition method. (English summary) **2005d:65129**
Goudar, C. T. *see* **Sonnad, J. R., 2005h:65124**
Govaerts, Willy *see* **Dhooge, Annick et al., (2005c:00014)**
Jafari, Hossein *see* **Daftardar-Gejji, Varsha, 2005j:65077**
Kanapady, Ramdev (*with* Tamma, Kumar K.) A mathematical framework towards a unified set of discontinuous state-phase hierarchical time operators for computational dynamics. (English summary) **2005b:65090**
Kaya, Doğan A reliable method for the numerical solution of the kinetics problems. (English summary) **2005g:65118**
Kuznetsov, Yuriĭ Aleksandrovich *see* **Dhooge, Annick et al., (2005c:00014)**
Letellier, Christophe *see* **Mendes, Eduardo, 2005c:65065**
López-Pouso, Óscar *see* **Abbasbandy, S. et al., 2005i:65112**
Lu, Zhengyi *see* **Chen, Wenhai, 2005e:65112**
Ma, T. F. (*with* da Silva, Jair) Iterative solutions for a beam equation with nonlinear boundary conditions of third order. (English summary) **2005f:65098**
Mendes, Eduardo (*with* Letellier, Christophe) Displacement in the parameter space versus spurious solution of discretization with large time step. (English summary) **2005c:65065**
Momani, Shaher (*with* Al-Khaled, Kamel) Numerical solutions for systems of fractional differential equations by the decomposition method. (English summary)
Neves, Armando G. M. Symbolic computation of high-order exact Picard iterates for systems of linear differential equations with time-periodic coefficients. (English summary) (*see* **2005c:00014**)
Nieto Roig, Juan José *see* **Abbasbandy, S. et al., 2005i:65112**
Ramos, J. I. An exponentially-fitted method for singularly-perturbed ordinary differential equations with turning points and parabolic problems. (English summary) **2005m:65157**
Ronto, N. I. (*with* Shchobak, N.) On the numerical-analytic investigation of parametrized problems with nonlinear boundary conditions. (English and Ukrainian summaries) **2005h:65123**
Shcherbina, N. M. Application of a numerical-analytic method to the solution of boundary value problems with a boundary layer. (Ukrainian. English, Russian and Ukrainian summaries) **2005f:65099**
Shchobak, N. *see* **Ronto, N. I., 2005h:65123**
da Silva, Jair *see* **Ma, T. F., 2005f:65098**
Sinitsyn, Aleksandr *see* **Dulov, Eugene V., 2005h:65122**
Sonnad, J. R. (*with* Goudar, C. T.) Solution of the Haldane equation for substrate inhibition enzyme kinetics using the decomposition method. (English summary) **2005h:65124**
Tamma, Kumar K. *see* **Kanapady, Ramdev, 2005b:65090** *and* **Zhou, Xiangmin, 2005g:65119**
Wazwaz, Abdul-Majid Adomian decomposition method for a reliable treatment of the Emden-Fowler equation. (English summary) **2005h:65125**
Zhang, Xin Hua[1] A modification of the Adomian decomposition method for a class of nonlinear singular boundary value problems. (English summary) **2005m:65158**
Zhou, Xiangmin (*with* Tamma, Kumar K.) A new unified theory underlying time dependent linear first-order systems: a prelude to algorithms by design. (English summary) **2005g:65119**

Items with secondary classifications in 65L99

Asaithambi, Asai Solution of the Falkner-Skan equation by recursive evaluation of Taylor coefficients. (English summary) **2005k:34108**
Belingeri, C. A recursion formula for the coefficients of entire functions satisfying an ODE with polynomial coefficients. (English summary) **2005g:30027**
Bera, Rasajit Kumar *see* **Ray, Santanu Saha, 2005g:34024**
Biazar, J. (*with* Montazeri, R.) A computational method for solution of the prey and predator problem. (English summary)
Chahma, Ilyes Aïssa Set-valued discrete approximation of state-constrained differential inclusions. **2005h:65093**
Chu, Delin (*with* Hung, Y. S.) A numerically reliable solution for the squaring-down problem in system design. (English summary) **2005d:93034**
Cui, Jun Zhi *see* **He, Wen Ming, 2005i:34069**
Dieci, Luca (*with* Elia, Cinzia; Lopez, Luciano) Smooth SVD on the Lorentz group with application to computation of Lyapunov exponents. (English summary) **2005b:15014**
Elia, Cinzia *see* **Dieci, Luca et al., 2005b:15014**
Fadeev, S. I. (*with* Kogai, V. V.) Using parameter continuation based on the multiple shooting method for numerical research of nonlinear boundary value problems. (English summary) **2005g:65114**
(He, Ji Huan) *see* **Sanchez, Nestor E., 2005j:34007**
He, Wen Ming (*with* Cui, Jun Zhi) Asymptotic expansion method for the two point boundary value problem with small periodic structure. (English summary) **2005i:34069**
Hoppe, Ronald H. W. *see* **Revnic, Adrian et al.**
Hu, Hui[2] A classical perturbation technique which is valid for large parameters. **2005e:34158**
Hung, Y. S. *see* **Chu, Delin, 2005d:93034**
Kogai, V. V. *see* **Fadeev, S. I., 2005g:65114**
Lopez, Luciano *see* **Dieci, Luca et al., 2005b:15014**
Lu, Ya Yan A fourth-order Magnus scheme for Helmholtz equation. (English summary) **2005g:78019**

Maggi, Francesco (*with* Morini, Massimiliano) A Γ-convergence result for variational integrators of Lagrangians with quadratic growth. (English summary) **2005h:49032**
Matsuura, Tsutomu (*with* Saitoh, Saburou) Analytical and numerical solutions of linear ordinary differential equations with constant coefficients. (English summary) **2005h:34018**
Moaddy, Khaled *see* **Momani, Shaher et al.**
Momani, Shaher (*with* Noor, Muhammad Aslam; Moaddy, Khaled) Modified decomposition method for solving a system of third-order obstacle problems. (English summary)
Montazeri, R. *see* **Biazar, J.**
Morini, Massimiliano *see* **Maggi, Francesco, 2005h:49032**
Noor, Muhammad Aslam *see* **Momani, Shaher et al.**
Pope, Stephen B. *see* **Tang, Qing, 2005a:80011**
Pratibha Fast and efficient algorithms for solving ordinary differential equations through computer algebra system. (English summary)
Qin, Hui Zeng (*with* Shang, Ni Na) Asymptotics analysis of numerical solutions of Painlevé equations. (Chinese. English and Chinese summaries)
Ray, Santanu Saha (*with* Bera, Rasajit Kumar) Solution of an extraordinary differential equation by Adomian decomposition method. (English summary) **2005g:34024**
Revnic, Adrian (*with* Hoppe, Ronald H. W.; Sibona, Gustavo) The numerical analysis of some systems of differential equations arising from molecular dynamics. (English summary)
Saitoh, Saburou *see* **Matsuura, Tsutomu, 2005h:34018**
Sanchez, Nestor E. A view to the new perturbation technique valid for large parameters. Comment on: "Homotopy perturbation method: a new nonlinear analytical technique" [Appl. Math. Comput. **135** (2003), no. 1, 73–79; MR1934316 (2003f:34015)] by J.-H. He. **2005j:34007**
Shang, Ni Na *see* **Qin, Hui Zeng**
Sibona, Gustavo *see* **Revnic, Adrian et al.**
St-Cyr, Amik (*with* Thomas, Stephen J.) Nonlinear operator integration factor splitting for the shallow water equations. (English summary) **2005k:65216**
Tang, Qing (*with* Pope, Stephen B.) A more accurate projection in the rate-controlled constrained-equilibrium method for dimension reduction of combustion chemistry. (English summary) **2005a:80011**
Thomas, Stephen J. *see* **St-Cyr, Amik, 2005k:65216**
Trif, Damian The Lyapunov-Schmidt method for two-point boundary value problems. (English summary) **2005k:34078**
Wang, Lei[3] A new algorithm for solving classical Blasius equation. (English summary) **2005h:65113**

65Mxx Partial differential equations, initial value and time-dependent initial-boundary value problems

Anile, Angelo Marcello (*with* Nikiforakis, N.; Romano, V.; Russo, Giovanni) Discretization of semiconductor device problems. II. (English summary)
Brezzi, F. (*with* Marini, L. D.; Micheletti, Stefano; Pietra, Paola; Sacco, Riccardo; Wang, Song[1]) Discretization of semiconductor device problems. I.
Marini, L. D. *see* **Brezzi, F. et al.**
Micheletti, Stefano *see* **Brezzi, F. et al.**
Nikiforakis, N. *see* **Anile, Angelo Marcello et al.**
Pietra, Paola *see* **Brezzi, F. et al.**
Romano, V. *see* **Anile, Angelo Marcello et al.**
Russo, Giovanni *see* **Anile, Angelo Marcello et al.**
Sacco, Riccardo *see* **Brezzi, F. et al.**
Wang, Song[1] *see* **Brezzi, F. et al.**

Items with secondary classifications in 65Mxx

Ben-Artzi, Matania (*with* Falcovitz, Joseph) ★ Generalized Riemann problems in computational fluid dynamics. **2005i:35177**
Bichir, Cătălin Liviu ★ Stabilitate hidrodinamică teoretică şi numerică. (Romanian) [Theoretical and numerical hydrodynamical stability] **2005c:76043**
Drikakis, Dimitris (*with* Rider, William) ★ High-resolution methods for incompressible and low-speed flows. **2005k:76001**
Falcovitz, Joseph *see* **Ben-Artzi, Matania, 2005i:35177**
(Georgescu, Adelina) *see* **Bichir, Cătălin Liviu, 2005c:76043**
(Harlow, Frank) *see* **Drikakis, Dimitris, 2005k:76001**
Ladevèze, Pierre (*with* Pelle, Jean-Pierre) ★ Mastering calculations in linear and nonlinear mechanics. **2005k:74034**
Li, Shaofan (*with* Liu, Wing Kam) ★ Meshfree particle methods. **2005i:65001**
Liu, Wing Kam *see* **Li, Shaofan, 2005i:65001**
Pelle, Jean-Pierre *see* **Ladevèze, Pierre, 2005k:74034**
Rider, William *see* **Drikakis, Dimitris, 2005k:76001**
Sewell, Granville ★ The numerical solution of ordinary and partial differential equations. **2005m:65004**
Stanoyevitch, Alexander ★ Introduction to numerical ordinary and partial differential equations using MATLAB®.
(Strouboulis, Theofanis) *see* **Ladevèze, Pierre, 2005k:74034**
Tveito, Aslak (*with* Winther, Ragnar) ★ Introduction to partial differential equations. **2005g:65002**
Winther, Ragnar *see* **Tveito, Aslak, 2005g:65002**

65M06 Finite difference methods

Abgrall, Rémi (*with* Andrianov, Nikolai; Mezine, M.) Towards very high-order accurate schemes for unsteady convection problems on unstructured meshes. (English summary) **2005j:65078**
Adimurthi (*with* Jaffré, Jérôme; Veerappa Gowda, G. D.) Godunov-type methods for conservation laws with a flux function discontinuous in space. (English summary) **2005c:65066**
Aguierre, C. *see* **Jiménez, Salvador et al., 2005a:65085**
Akrivis, Georgios (*with* Smyrlis, Yiorgos-Sokratis) Implicit-explicit BDF methods for the Kuramoto-Sivashinsky equation. (English summary) **2005h:65126**
Aksan, E. N. (*with* Özdeş, A.) A numerical solution of Burgers' equation. (English summary) **2005f:65100**
Aksenova, A. E. *see* **Chudanov, V. V. et al., (2005c:65004)**
Alaev, R. D. *see* **Blokhin, A. M., 2005c:65069**
Albarreal Núñez, Isidoro I. (*with* Calzada Canalejo, M. Carmen; Cruz Soto, José Luis; Fernández Cara, Enrique; Galo Sánchez, José R.; Marín Beltrán, Mercedes) Time and space parallelization of the Navier-Stokes equations. (English summary) **2005k:65162**
— *see also* **Galo, José R. et al.**
Alekseev, A. K. (*with* Navon, Ionel Michael) On a posteriori pointwise error estimation using adjoint temperature and Lagrange remainder. (English summary) **2005m:65159**
Alias, Norma *see* **Sahimi, Mohd Salleh et al., 2005f:65108**
Almendral Vázquez, A. (*with* Oosterlee, Cornelis W.) Numerical valuation of options with jumps in the underlying. (English summary) **2005j:65079**
Alonso-Mallo, Isaías (*with* Reguera, Nuria) Adaptive absorbing boundary conditions for Schrödinger-type equations. (*see* **2005b:00020**)
— (*with* Reguera, Nuria) Discrete absorbing boundary conditions for Schrödinger-type equations, construction and error analysis. (English summary) **2005a:65079**
Al′shin, A. B. (*with* Al′shina, E. A.; Boltnev, A. A.; Kacher, O. A.; Koryakin, P. V.) Numerical solution of initial-boundary value problems for Sobolev-type equations by the method of quasi-uniform grids. (Russian. Russian summary) **2005e:65113**
Al′shina, E. A. *see* **Al′shin, A. B. et al., 2005e:65113**
Altundas, Y. B. (*with* Caginalp, G.) Parallel computation of single-needle dendrites in 3D and comparison with microgravity experiment. (English summary) (*see* **2005b:65003**)
Anderson, Christopher R. (*with* Cecil, Thomas C.) A Fourier-Wachspress method for solving Helmholtz's equation in three-dimensional layered domains. (English summary) **2005m:65160**
Andreyanov, Boris P. (*with* Gutnic, Michaël; Wittbold, Petra) Convergence of finite volume approximations for a nonlinear elliptic-parabolic problem: a "continuous" approach. (English summary) **2005e:65114**
Andrianov, Nikolai *see* **Abgrall, Rémi et al., 2005j:65078**
Angelov, Rumen Angelov (*with* Kama, P.; Lubuma, J. M.-S.) On non-standard finite difference models of reaction-diffusion equations. (English summary) **2005k:65163**
Antoine, Xavier (*with* Besse, Christophe; Mouysset, Vincent) Numerical schemes for the simulation of the two-dimensional Schrödinger equation using non-reflecting boundary conditions. (English summary) **2005c:65067**
Aregba-Driollet, D. (*with* Diele, Fasma; Natalini, Roberto) A mathematical model for the sulphur dioxide aggression to calcium carbonate stones: numerical approximation and asymptotic analysis. (English summary) **2005g:65120**
Arnau, F. J. *see* **Jerez, S. et al., 2005k:65175**
Arnold, Anton (*with* Ehrhardt, Matthias; Sofronov, Ivan L.) Discrete transparent boundary conditions for the Schrödinger equation: fast calculation, approximation, and stability. (English summary) **2005g:65121**
Ashyralyev, Allaberen (*with* Yurtsever, Hasan A.) A note on the second order of accuracy difference schemes for hyperbolic-parabolic equations in a Hilbert space. (English summary) (*see* **2005i:00016**)
— (*with* Yurtsever, Hasan A.) A note on the second order of accuracy difference schemes for hyperbolic-parabolic equations. (English summary) **2005m:65161**
Aslam, Tariq D. A level set algorithm for tracking discontinuities in hyperbolic conservation laws. II. Systems of equations. (English summary) **2005d:65130**
Bahadır, A. Refik (*with* Sağlam, Mustafa) A mixed finite difference and boundary element approach to one-dimensional Burgers' equation. (English summary) **2005i:65115**
— Exponential finite-difference method applied to Korteweg-de Vries equation for small times. (English summary) **2005j:65080**
Bal, Guillaume (*with* Ryzhik, Leonid) Time splitting for the Liouville equation in a random medium. (English summary) **2005j:65081**
Bale, Derek S. *see* **Rossmanith, James A. et al., 2005h:65139**
Balsara, D. S. *see* **Torrilhon, Manuel, 2005g:65127**
Banda, Mapundi Kondwani Variants of relaxed schemes and two-dimensional gas dynamics. (English summary) **2005m:65162**
Banushkina, P. V. (*with* Laevskiĭ, Yu. M.; Zotkevich, A. A.) On local conditions of stability for multi-level difference schemes. (*see* **2005i:65006**)
Baranowska, A. (*with* Kamont, Z.) Stability of difference problems generated by hyperbolic first order partial differential systems. (English summary) **2005i:65116**
Baronas, R. (*with* Ivanauskas, Feliksas; Sapagovas, M.) Numerical investigation of moisture movement in wood during drying. (English summary) (*see* **2005c:65004**)
Bastian, Peter Higher order discontinuous Galerkin methods for flow and transport in porous media. (English summary) (*see* **2005a:65001**)
Baudin, Michaël (*with* Coquel, Frédéric; Tran, Quang Huy) A time semi-implicit relaxation scheme for two-phase flows in pipelines. (English summary) **2005k:65164**
Ben-Artzi, Matania *see* **Fishelov, D. et al., (2005g:65008)**
Beneš, Michal *see* **Šenkýř, Milan et al., (2005j:65003)**
Benth, F. E. (*with* Karlsen, Kenneth H.; Reikvam, K.) A semilinear Black and Scholes partial differential equation for valuing American options: approximate solutions and convergence. (English summary) **2005h:65127**
Berezovskii, Arkadii A. (*with* Engelbrecht, Jüri; Maugin, Gérard A.) Numerical simulation of thermoelastic wave and phase-transition front propagation. (English summary) (*see* **2005b:00020**)
Berres, Stefan (*with* Bürger, Raimund; Karlsen, Kenneth H.) Central schemes and systems of conservation laws with discontinuous coefficients modeling gravity separation of polydisperse suspensions. (English summary) **2005c:65068**
Bertolazzi, Enrico (*with* Manzini, Gianmarco) Limiting strategies for polynomial reconstructions in the finite volume approximation of the linear advection equation. (English summary)
— (*with* Manzini, Gianmarco) A finite volume method for transport of contaminants in porous media. (English summary)
Besse, Christophe *see* **Antoine, Xavier et al., 2005c:65067**
Bibik, Yu. V. (*with* Popov, S. P.; Sarancha, D. A.) Numerical solution of the Bogoyavlenskiĭ kinetic equation and the Lotka-Volterra system with diffusion. (Russian. Russian

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Bilbao, Stefan Parameterized families of finite difference schemes for the wave equation. (English summary) **2005a:65080**

Blasco, Jordi (*with* Codina, Ramon) Error estimates for an operator-splitting method for incompressible flows. (English summary) **2005d:65131**

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Boivin, Charles (*with* Ollivier-Gooch, Carl) A toolkit for numerical simulation of PDEs. II. Solving generic multiphysics problems. (English summary)

Bojović, D. *see* **Jovanović, Boško S., 2005c:65075**

Boltnev, A. A. *see* **Al'shin, A. B. et al., 2005e:65113**

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— (*with* Kurganov, Alexander; Levy, Doron; Petrova, Guergana) Semi-discrete central-upwind schemes with reduced dissipation for Hamilton-Jacobi equations. (English summary) **2005k:65166**

Buet, Christophe (*with* Cordier, Stéphane) On the non existence of monotone linear schema for some linear parabolic equations. (English and French summaries)

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— *see also* **Jorge, J. C., 2005c:65074**

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— *see also* **Berres, Stefan et al., 2005c:65068**

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Catalano, L. A. (*with* Dadone, A.; Daloiso, V. S. E.) Progressive optimization on unstructured grids using multigrid-aided finite-difference sensitivities. (English summary)

Cecil, Thomas C. *see* **Anderson, Christopher R., 2005m:65160**

Chacón, L. A non-staggered, conservative, $\nabla \cdot \vec{B} = 0$, finite-volume scheme for 3D implicit extended magnetohydrodynamics in curvilinear geometries. (English summary)

Chacón-Rebollo, Tomás (*with* Domínguez Delgado, Antonio; Fernández Nieto, Enrique D.) Numerical schemes for 2D shallow water equations with variable depth and friction effects. (English summary) (*see* **2005b:00020**)

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— (*with* Chung, Sang Kwon) A conservative nonlinear difference scheme for the viscous Cahn-Hilliard equation. (English summary) **2005f:65101**

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Chudanov, V. V. (*with* Aksenova, A. E.; Pervichko, V. A.; Vabishchevich, Petr N.) Numerical methods for solving diffusion/convection problems with regard of melting using a fictitious domain procedure. (English summary) (*see* **2005c:65004**)

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Črnjarić-Žic, Nelida (*with* Vuković, Senka; Sopta, Luka) Improved non-staggered central NT schemes for balance laws with geometrical source terms. (English summary)

— (*with* Vuković, Senka; Sopta, Luka) Balanced central NT schemes for the shallow water equations. (English summary) **2005m:65164**

— *see also* **Vuković, Senka et al., 2005k:65184**

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— (*with* Saadatmandi, A.) Bounds for solutions of a six-point partial-difference scheme. (English summary) **2005b:65092**

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Delfour, Michel C. Addendum and remarks on doubly conservative numerical schemes for the nonlinear Schrödinger equation and its control: "Finite-difference solutions of a nonlinear Schrödinger equation" [J. Comput. Phys. **44** (1981), no. 2, 277–288; MR0645840 (83c:65195)] by Delfour, M. Fortin and G. Payre. (English summary) **2005a:65082**

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Du, Zheng Ping (*with* Yin, Dong Sheng[1]; Liu, Xiao Yu[1]; Lu, Jin Fu) Nonorthogonal quadrilateral mesh finite volume difference method for a 2-D diffusion equation. (Chinese. English summary)

Dubroca, Bruno *see* **Seaïd, Mohammed et al.**

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Düring, Bertram (*with* Fournié, Michel; Jüngel, Ansgar) Convergence of a high-order compact finite difference scheme for a nonlinear Black-Scholes equation. (English summary) **2005h:65132**

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Gallego, Samy (*with* Méhats, Florian) Numerical approximation of a quantum drift-diffusion model. (English and French summaries)
Galo, José R. (*with* Albarreal Núñez, Isidoro I.; Calzada Canalejo, M. Carmen; Cruz Soto, José Luis; Fernández Cara, Enrique; Marín Beltrán, Mercedes) A simultaneous directions parallel algorithm for the Navier-Stokes equations. (English and French summaries)
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Ganzha, V. G. (*with* Liska, Richard; Shashkov, M. Yu.; Zenger, Christoph) Mimetic finite difference methods for diffusion equations on unstructured triangular grid. (English summary) (*see* **2005j:65003**)
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— (*with* Shishkin, Grigorii I.; Shishkina, L. P.) Novel direct-correction high-order, in space and time, accurate schemes for parabolic singularly perturbed convection-diffusion problems. (English summary) **2005d:65137**
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— *see also* **Bryson, Steve et al., 2005b:65091**; **2005d:65132** *and* **2005k:65166**
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— *see also* **Matus, Petr P., (2005i:00016)**
Merlen, Alain (*with* Voïnovich, P. A.; Preobrazhensky, Vladimir; Pernod, Philippe) Finite volume methods for wave phase conjugation in active media. (English summary) (*see* **2005b:00020**)
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Subbotina, T. N. Comparison of triangular difference schemes with methods of a high order of accuracy for the solution of the convection-diffusion equation. (Russian) (*see* **2005b:00029**)

Suh, Y. K. A robust numerical method for the two-dimensional standing-wave in a tank with a free-surface movement. (English summary) (*see* **2005b:65003**)

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Wandzura, Stephen Stable, high-order discretization for evolution of the wave equation in $2+1$ dimensions. (English summary) **2005d:65148**

Wang, Bin[1] *see* **Wang, Yu Shun et al.**, **2005h:65142**

Wang, Cheng[4] (*with* Liu, Jian-Guo[1]; Johnston, Hans) Analysis of a fourth order finite difference method for the incompressible Boussinesq equations. (English summary) **2005b:65097**

Wang, Huan *see* **Feng, Xin Long**

Wang, Jing Hua[1] (*with* Wen, Hairui; Zhou, Tie) On large time step Godunov scheme for hyperbolic conservation laws. (English summary) **2005k:65185**

Wang, Linxiang *see* **Melnik, Roderick V. N. et al.**, (2005g:65009)

Wang, Tong Ke (*with* Zhang, Li Xia) A new Crank-Nicolson difference scheme and its alternating direction method for convection-diffusion equations. (Chinese. English summary) **2005i:65125**

— *see also* **Sun, Hong**

Wang, Wen Qia A class of alternating group method of Burgers' equation. (Chinese. English and Chinese summaries) **2005h:65141**

— A class of alternating segment Crank-Nicolson methods for solving convection-diffusion equations. (English summary) **2005g:65128**

Wang, Yu Shuo (*with* Wang, Bin[1]; Yang, Hong Wei; Wang, Yun Feng) Multisymplectic five-point scheme for the nonlinear wave equation. (English summary) **2005h:65142**

Wang, Yun Feng *see* **Wang, Yu Shun et al., 2005h:65142**

Warnecke, Gerald G. *see* **Tang, Hua-zhong, 2005f:65111**

Wautelet, P. *see* **Vaassen, J.-M. et al.**

Wen, Hairui *see* **Wang, Jing Hua**[1] **et al., 2005k:65185**

Wen, Xin[2] *see* **Jin, Shi, 2005h:65133**

Wendroff, Burton *see* **Váchal, Pavel et al.**, (2005j:65003)

Wittbold, Petra *see* **Andreyanov, Boris P. et al., 2005e:65114**

Wollman, Stephen (*with* Ozizmir, Ercument) Numerical approximation of the Vlasov-Poisson-Fokker-Planck system in one dimension. (English summary) **2005m:65184**

Woodward, Carol S. *see* **Brown, Peter N. et al., 2005k:65165**

Wu, Biao[1] Convergence of a difference method for the mathematical model of crystal pulling. (Chinese. English and Chinese summaries) **2005m:65185**

Wu, Hai Shan *see* **Rong, Yue Tang**

Wu, Xiao Nan (*with* Sun, Zhi-Zhong) Convergence of difference scheme for heat equation in unbounded domains using artificial boundary conditions. (English summary) **2005a:65090**

Xiong, Xiang-Tuan (*with* Fu, Chu-Li; Li, Hong-Fang) Central difference schemes in time and error estimate on a non-standard inverse heat conduction problem. (English summary) **2005i:65126**

Xu, Zhen Li (*with* Qiu, Jian Xian; Liu, Ru Xun) Some optimal methods for WENO schemes in hyperbolic conservation laws. (Chinese. English and Chinese summaries) **2005e:65123**

Xu, Zhengfu (*with* Shu, Chi-Wang) Anti-diffusive flux corrections for high order finite difference WENO schemes. (English summary) **2005m:65186**

Yan, Hai Qing *see* **Tang, Chen et al.**

Yang, Hong Wei *see* **Wang, Yu Shun et al., 2005h:65142**

Yang, Qing[3] A generalized difference method for a chemical reaction-diffusion problem. (Chinese. English and Chinese summaries)

— A finite difference scheme of second order for contamination by nuclear waste disposal in porous media. (Chinese. English and Chinese summaries) **2005i:65127**

Yang, Tong (*with* Zhao, Hui-Jiang) BV estimates on Lax-Friedrichs' scheme for a model of radiating gas. (English summary) **2005e:65124**

Yin, Dong Sheng[1] *see* **Du, Zheng Ping et al.**

You, Tong Shun The ENO-MMOCAA finite difference method for a convection-diffusion equation. (Chinese. English and Chinese summaries) **2005i:65128**

Ystrom, Jacob *see* **Kreiss, Heinz-Otto et al., 2005j:65085**

Yuan, Guangwei (*with* Shen, Long Jun) Stability and convergence of the explicit-implicit conservative domain decomposition procedure for parabolic problems. (English summary) **2005a:65091**

— *see also* **Zhou, Yu Lin**[1] **et al., 2005c:65078**; **2005h:65143** *and* **Zhu, Shaohong et al., 2005e:65126**

Yurtsever, Hasan A. *see* **Ashyralyev, Allaberen, 2005m:65161** *and* **(2005i:00016)**

Zakharian, Aramis R. (*with* Brio, Moysey; Moloney, Jerome V.) FDTD based second-order accurate local mesh refinement method for Maxwell's equations in two space dimensions. (English summary) **2005i:65129**

Zeng, Wen Ping A high accuracy explicit difference scheme for solving high order parabolic equation. (Chinese. English summary) **2005g:65129**

— A family of absolutely stable difference schemes of high accuracy for solving a Schrödinger equation. (Chinese. English and Chinese summaries)

— Three-layer absolutely stable difference schemes with two parameters for solving a higher-order Schrödinger type equation. (Chinese. English and Chinese summaries) **2005e:65125**

— A family of absolutely stable difference schemes of high accuracy for solving a class of evolution equations. (Chinese. English and Chinese summaries)

Zenger, Christoph *see* **Ganzha, V. G. et al.**, (2005j:65003)

Zhang, Jun[2] *see* **Karaa, Samir, 2005b:65095**

Zhang, Li Xia *see* **Wang, Tong Ke, 2005i:65125**

Zhang, Ling-Yun (*with* Sun, Zhi-Zhong) A second-order linearized difference scheme on nonuniform meshes for nonlinear parabolic systems with Neumann boundary value conditions. (English summary) **2005d:65149**

Zhao, Hui-Jiang *see* **Yang, Tong, 2005e:65124**

Zhao, Kai[3] *see* **Liu, Xiao Yu**[1] **et al., 2005h:65137**

Zhao, Ning *see* **Zheng, Hua Sheng et al., 2005k:65186**

Zheng, Hua Sheng (*with* Zhao, Ning; Cheng, Juan) One-dimensional higher-order accurate discontinuous GDQ methods. (Chinese. English summary) **2005k:65186**

— (*with* Zhao, Ning) MmB difference schemes for two-dimensional hyperbolic conservation laws. (English and Chinese summaries)

Zhong, Weijun *see* **Liu, Qingfu, 2005e:65119**

Zhou, Hong[5] (*with* Forest, M. Gregory) A numerical study of unsteady, thermal, glass fiber drawing processes. (English summary) **2005m:65187**

Zhou, Tie *see* **Wang, Jing Hua**[1] **et al., 2005k:65185**

Zhou, Yu Lin[1] (*with* Shen, Long Jun; Yuan, Guangwei) Unconditional stable difference methods with intrinsic parallelism for semilinear parabolic systems of divergence type. (English summary) **2005c:65078**

— (*with* Yuan, Guangwei; Shen, Long Jun) The unconditional stable and convergent difference methods with intrinsic parallelism for quasilinear parabolic systems. (English summary) **2005h:65143**

Zhu, Shaohong (*with* Yuan, Guangwei; Sun, Wei-wei) Convergence and stability of explicit/implicit schemes for parabolic equations with discontinuous coefficients. (English summary) **2005e:65126**

Zhu, You-Lan *see* **Sun, Zhi-Zhong, 2005e:65122**

Zlotnik, A. A. *see* **Gileva, V. V., 2005i:65119**

Zotkevich, A. A. *see* **Banushkina, P. V. et al.**, (2005i:65006)

Zwierkowski, Piotr Stability of forward finite difference schemes for certain problems in biology. (English summary) **2005e:65127**

— *see also* **Leszczyński, Henryk, 2005g:65126**

Items with secondary classifications in 65M06

Abbasov, Hummat M. Correctness of a non-linear parabolic problem with unknown moving boundary, describing displacement of two weakly compressible viscous fluids in the porous medium. (English summary)

Abide, Stéphane (*with* Viazzo, Stéphane) A 2D compact fourth-order projection decomposition method. (English summary) **2005k:76092**

Aboubacar, M. *see* **Webster, M. F. et al., 2005h:76059**

Abreu, Eduardo (*with* Furtado, Frederico; Pereira, Felipe) On the numerical simulation of three-phase reservoir transport problems. (English summary) **2005k:76126**

Ackleh, Azmy S. (*with* Deng, Keng; Hu, Shuhua) A quasilinear hierarchical size-structured model: well-posedness and approximation. (English summary) **2005i:35170**

Albarreal Núñez, Isidoro I. *see* **Galo, José R. et al.**

Aldrighetti, E. (*with* Zanolli, P.) A high resolution scheme for flows in open channels with arbitrary cross-section. (English summary) **2005i:76078**

Allaire, Grégoire (*with* Jouve, François; Toader, Anca-Maria) Structural optimization using sensitivity analysis and a level-set method. (English summary) **2005a:74079**

Allen, Edward J. *see* **Arciniega, Armando, 2005c:91050**

Al-Showaikh, F. N. M. (*with* Twizell, E. H.) One-dimensional measles dynamics. (English summary) **2005b:35117**

Aniţa, Sebastian[2] (*with* Arnăutu, Viorel) Some aspects concerning the linear age-dependent population dynamics. (English summary) **2005m:92030**

Ansari, Ali R. (*with* Shishkin, Grigorii I.) A Reynolds-uniform numerical method for oscillating flow through a pipe. (English summary) (*see* **2005i:65006**)

Appelö, Daniel (*with* Kreiss, Gunilla) Discretely nonreflecting boundary conditions for higher order centered schemes for wave equations. (English summary) (*see* **2005b:00020**)

Arciniega, Armando (*with* Allen, Edward J.) Extrapolation of difference methods in option valuation. (English summary) **2005c:91050**

Arminjon, P. (*with* Touma, R.) Central finite volume methods with constrained transport divergence treatment for ideal MHD. (English summary) **2005k:76081**

Arnăutu, Viorel *see* **Aniţa, Sebastian**[2]**, 2005m:92030**

Ashyralyev, Allaberen (*with* Sobolevskii, Pavel E.) ★ New difference schemes for partial differential equations. **2005g:65003**

Aslan, Zafer *see* **Rasulov, Mahir et al., 2005g:76087**

Audusse, Emmanuel (*with* Bouchut, François; Bristeau, Marie-Odile; Klein, Rupert; Perthame, Benoît) A fast and stable well-balanced scheme with hydrostatic reconstruction for shallow water flows. (English summary) **2005f:76069**

— (*with* Bristeau, Marie-Odile) A well-balanced positivity preserving "second-order" scheme for shallow water flows on unstructured meshes. (English summary) **2005k:76082**

Azarenok, Boris N. (*with* Tang, Tao) Second-order Godunov-type scheme for reactive flow calculations on moving meshes. (English summary) **2005k:76086**

Baboolal, S. A high-resolution numerical fluid simulation of plasma sheaths. (English summary)

— *see also* **Naidoo, R.**

Bagabir, A. (*with* Drikakis, Dimitris) Numerical experiments using high-resolution schemes for unsteady, inviscid, compressible flows. (English summary) **2005c:76066**

Bailey, D. A. (*with* Sweby, Peter K.; Glaister, P.) A ghost fluid, moving finite volume plus continuous remap method for compressible Euler flow. (English summary) **2005j:76064**

Balbás, Jorge (*with* Tadmor, Eitan; Wu, Cheng-Chin) Non-oscillatory central schemes for one- and two-dimensional MHD equations. I. (English summary) **2005f:76070**

Banda, Mapundi Kondwani (*with* Seaïd, Mohammed; Klar, Axel; Pareschi, Lorenzo) Compressible and incompressible limits for hyperbolic systems with relaxation. (English summary) **2005g:35239**

Bao, Weizhu Ground states and dynamics of multicomponent Bose-Einstein condensates. (English summary) **2005d:82069**

— (*with* Du, Qiang) Computing the ground state solution of Bose-Einstein condensates by a normalized gradient flow. (English summary) **2005f:82117**

Baronas, R. (*with* Ivanauskas, Feliksas; Kulys, J.) The effect of diffusion limitations on the response of amperometric biosensors with substrate cyclic conversion. (English summary) **2005b:35141**

Bartsch, Peter (*with* Borzì, Alfio) On the modeling and simulation of boundary flow through partially open pipe ends. (English summary) **2005f:76084**

Baudin, Michaël (*with* Berthon, Christophe; Coquel, Frédéric; Masson, Roland; Tran, Quang Huy) A relaxation method for two-phase flow models with hydrodynamic closure law. (English summary) **2005h:76079**

Bécache, Eliane (*with* Joly, Patrick; Rodríguez, Jerónimo) Space-time mesh refinement for the elastodynamic equations. (English summary) (*see* **2005b:00020**)

— (*with* Joly, Patrick; Scarella, Gilles) A fictitious domain method for a unilateral contact problem. (*see* **2005b:00020**)

Benzoni-Gavage, S. (*with* Huot, P.; Rousset, Frédéric) Nonlinear stability of semidiscrete shock waves. (English summary) **2005j:35147**

Berger, Marsha J. *see* **Helzel, Christiane et al., 2005i:35180**

Berres, Stefan (*with* Bürger, Raimund; Karlsen, Kenneth H.; Tory, Elmer M.) Strongly degenerate parabolic-hyperbolic systems modeling polydisperse sedimentation with compression. (English summary) **2005g:35185**

Berthon, Christophe Inégalités d'entropie pour un schéma de relaxation. (English and

French summaries) [Entropy inequalities for a relaxation scheme]
— *see also* **Baudin, Michaël et al., 2005h:76079**
Bertozzi, Andrea L. (*with* Greer, John B.) Low-curvature image simplifiers: global regularity of smooth solutions and Laplacian limiting schemes. (English summary) **2005b:35110**
Bertrand, Pierre *see* **Labrunie, Simon et al., 2005d:76046**
Bianchini, Stefano BV solutions of semidiscrete upwind scheme. **2005f:35197**
Blaisdell, Gregory A. *see* **Zhang, Xiangang et al.**
Boglaev, Igor Monotone iterative algorithms for a nonlinear singularly perturbed parabolic problem. (English summary) **2005g:65137**
Boivin, Sylvain *see* **Perron, Sébastien et al., 2005d:76027**
Bonnans, Joseph Frédéric (*with* Ottenwaelter, Élisabeth; Zidani, Housnaa) A fast algorithm for the two dimensional HJB equation of stochastic control. (English summary) **2005e:93165**
Book, David L. The conception, gestation, birth, and infancy of FCT. (English summary)
Borzì, Alfio *see* **Bartsch, Peter, 2005f:76084**
Bouchut, François ★ Nonlinear stability of finite volume methods for hyperbolic conservation laws and well-balanced schemes for sources. **2005m:65002**
— *see also* **Audusse, Emmanuel et al., 2005f:76069**
Bourchtein, Andrei Semi-Lagrangian semi-implicit fully splitted hydrostatic atmospheric model. (English summary) (*see* **2005c:00014**)
Bouziani, Abdelfatah (*with* Merazga, Nabil) Rothe time-discretization method applied to a quasilinear wave equation subject to integral conditions. **2005d:35172**
Bramkamp, F. (*with* Lamby, Ph.; Müller, Siegfried) An adaptive multiscale finite volume solver for unsteady and steady state flow computations. (English summary) **2005a:76106**
Brandenburg, Axel Computational aspects of astrophysical MHD and turbulence. **2005c:85001**
Bristeau, Marie-Odile *see* **Audusse, Emmanuel et al., 2005f:76069** *and* **2005k:76082**
Broeckhoven, Tim (*with* Smirnov, Sergey; Ramboer, Jan; Lacor, Chris) Finite volume formulation of compact upwind and central schemes with artificial selective damping. (English summary)
Brüger, Arnim (*with* Gustafsson, Bertil; Lötstedt, Per; Nilsson, Jonas) High order accurate solution of the incompressible Navier-Stokes equations. (English summary) **2005f:76071**
Bürger, Raimund (*with* Karlsen, Kenneth H.; Towers, John D.) Closed-form and finite difference solutions to a population balance model of grinding mills. (English summary) **2005m:80011**
— *see also* **Berres, Stefan et al., 2005g:35185**
Cai, Wei (*with* Deng, Shaozhong) An upwinding embedded boundary method for Maxwell's equations in media with material interfaces: 2D case. (English summary) **2005a:78032**
— Numerical methods for Maxwell's equations in inhomogeneous media with material interfaces. (English summary) **2005c:78016**
Cai, Xiao-Chuan *see* **Murillo, Maria, 2005f:65123**
Calabrese, Gioel (*with* Lehner, Luis; Reula, Oscar A.; Sarbach, Olivier; Tiglio, Manuel) Summation by parts and dissipation for domains with excised regions. (English summary) **2005m:83003**
Calzada Canalejo, M. Carmen *see* **Galo, José R. et al.**
Campo, Antonio (*with* Morrone, Biagio) Meshless approach for computing the heat liberation from annular fins of tapered cross section. (English summary) **2005f:80018**
Caraeni, D. (*with* Fuchs, László[2]) Compact third-order multidimensional upwind discretization for steady and unsteady flow simulations. (English summary) **2005k:76093**
Carey, Graham F. (*with* Fowkes, Neville; Staelens, Amanda; Pardhanani, Anand) A class of coupled nonlinear reaction diffusion models exhibiting fingering. (English summary) **2005a:76163**
Carrillo, José-Antonio *see* **Labrunie, Simon et al., 2005d:76046**
Casabán, M. C. (*with* Jódar, Lucas; Ossandón, G. A.) A discrete Fourier method for numerical solution of strongly coupled mixed parabolic systems. (English summary) **2005k:65209**
Castelletti, L. *see* **Quartapelle, L. et al., 2005a:76136**
Castro-Díaz, Manuel Jesús (*with* García-Rodríguez, J. A.; González Vida, José M.; Macías Sánchez, Jorge; Parés, Carlos; Vázquez-Cendón, María Elena) Simulation of internal waves in the Strait of Gibraltar using a two-layer shallow-water model. (*see* **2005b:00020**)
— (*with* García-Rodríguez, J. A.; González Vida, José M.; Parés, Carlos) Numerical solution of two-layer shallow water equations using finite volume schemes. (Spanish. Spanish summary) **2005i:86004**
Chakravarty, Santabrata (*with* Sarifuddin; Mandal, Prasanta Kumar) Unsteady flow of a two-layer blood stream past a tapered flexible artery under stenotic conditions. (English summary) **2005i:76133**
Chakravorty, Saugata (*with* Mathew, Joseph[1]) A high-resolution scheme for low Mach number flows. (English summary) **2005b:76092**
Chandra, Sanjay *see* **Verma, Anil Kumar et al., 2005g:80016**
Charrier, Pierre (*with* Dubroca, Bruno; Mieussens, Luc; Turpault, Rodolphe) Discrete-velocity models for numerical simulations in transitional regime for rarefied flows and radiative transfer. (English summary) **2005e:82040**
Chawla, Man M. Finite difference methods for the Black-Sholes equation and valuation of options. (English summary) **2005d:91047**
Chefd'hotel, C. (*with* Tschumperlé, D.; Deriche, Rachid; Faugeras, Olivier) Regularizing flows for constrained matrix-valued images. (English summary) **2005b:94004**
Chern, I-Liang *see* **Zhu, You-Lan et al., 2005i:91002**
Chesnokov, Aleksandr Aleksandrovich *see* **Teshukov, Vladimir et al., 2005i:76021**
Chizhonkov, E. V. (*with* Ivanchikov, A. A.) On numerical stabilization of solutions of Stokes and Navier-Stokes equations by the boundary conditions. (English summary) **2005g:76084**
Choudhury, Jayanta (*with* Christov, Christo I.) 2D solitary waves of Boussinesq equation. (English summary) (*see* **2005m:00011**)
Christov, Christo I. *see* **Choudhury, Jayanta**, (**2005m:00011**)
Chtcheritsa, O. V. (*with* Mazhorova, O. S.; Popov, Yu. P.) Implicit numerical algorithm for the solution of phase transition problems in multi-component alloys. (English and Lithuanian summaries)
Čiegis, Raimondas Mathematical modeling is a source of novel mathematical problems. (English summary) (*see* **2005a:00022**)
— (*with* Iliev, Oleg; Rief, Stefan; Steiner, Konrad) On modeling and simulation of different regimes for liquid polymer moulding. (English summary) **2005h:76004**
— *see also* **Krylovas, Aleksandras**, (**2005c:65004**)
Clarisse, Jean-Marie (*with* Jaouen, Stéphane; Raviart, Pierre-Arnaud) A Godunov-type method in Lagrangian coordinates for computing linearly-perturbed planar-symmetric flows of gas dynamics. (English summary) **2005a:76109**
Cohen, Gary C. (*with* Fauqueux, Sandrine) Mixed spectral elements for the linear elasticity system in unbounded domains. (English summary) (*see* **2005b:00020**)
Coimbra, Carlos F. M. Mechanics with variable-order differential operators. (English summary) **2005d:26008**
Colella, Phillip *see* **Crockett, Robert K. et al., 2005j:76065** *and* **Trebotich, D. et al.**
Coquel, Frédéric *see* **Baudin, Michaël et al., 2005h:76079**
Črnjarić-Žic, Nelida (*with* Vuković, Senka; Sopta, Luka) Balanced finite volume WENO and central WENO schemes for the shallow water and the open-channel flow equations. (English summary) **2005d:76028**
Crockett, Robert K. (*with* Colella, Phillip; Fisher, Robert T.; Klein, Richard J.; McKee, Christopher I.) An unsplit, cell-centered Godunov method for ideal MHD. (English summary) **2005j:76065**
Crossley, A. J. (*with* Wright, N. G.) Time accurate local time stepping for the unsteady shallow water equations. (English summary)
Crouseilles, Nicolas (*with* Filbet, Francis) Numerical approximation of collisional plasmas by high order methods. (English summary) **2005f:82127**
Cruz Soto, José Luis *see* **Galo, José R. et al.**
Dai, Zi Huan *see* **Fu, Shang Wu et al., 2005h:76063**
Dalziel, S. B. *see* **Patterson, M. D. et al., 2005k:86010**
De Chant, Lawrence J. Approximate inertial manifold-based finite-difference operators and quasi-steady solutions of parabolic PDEs with application to sediment transport. (English summary) **2005d:37160**
Dedner, Andreas (*with* Rohde, Christian) Numerical approximation of entropy solutions for hyperbolic integro-differential equations. (English summary) **2005f:45016**
Dehghan, Mehdi Identification of a time-dependent coefficient in a partial differential equation subject to an extra measurement. (English summary) **2005m:65200**
Delis, A. I. (*with* Katsaounis, Theodoros) A generalized relaxation method for transport and diffusion of pollutant models in shallow water. (English summary) **2005i:76080**
Demir, Hüseyin Numerical modelling of viscoelastic cavity driven flow using finite difference simulations. (English summary) **2005m:76122**
Deng, Keng *see* **Ackleh, Azmy S. et al., 2005i:35170**
Deng, Shaozhong *see* **Cai, Wei, 2005a:78032**
Deriche, Rachid *see* **Chefd'hotel, C. et al., 2005b:94004**
Després, Bruno An explicit a priori estimate for a finite volume approximation of linear advection on non-Cartesian grids. (English summary) **2005j:65095**
Dey, S. *see* **Sengupta, T. K. et al.**
Dhindaw, B. K. *see* **Verma, Anil Kumar et al., 2005g:80016**
Dimov, Ivan T. (*with* Faragó, István; Havasi, Á.; Zlatev, Z.) Operator splitting and commutativity analysis in the Danish Eulerian model. (English summary) **2005f:86003**
Dimova, Stefka *see* **Slavov, Vladimir**, (**2005f:00011**)
Ding, Peizhu *see* **Liu, Xueshen[2]**, **2005b:35261**
Dipankar, Anurag *see* **Sengupta, T. K. et al., 2005g:76088**
Drikakis, Dimitris *see* **Bagabir, A., 2005c:76066**
Drobyshevich, V. I. Mathematical modelling of hybrid combustion waves. (English summary) **2005h:80011**
Dröge, Marc (*with* Verstappen, Roel) A new symmetry-preserving Cartesian-grid method for computing flow past arbitrarily shaped objects. (English summary)
Du, Qiang (*with* Ju, Lili) Numerical simulations of the quantized vortices on a thin superconducting hollow sphere. (English summary) **2005f:82138**
— *see also* **Bao, Weizhu, 2005f:82117**
Dubroca, Bruno *see* **Charrier, Pierre et al., 2005e:82040**
Elizarova, T. G. (*with* Milyukova, O. Yu.) Parallel algorithm for numerical simulation of 3D incompressible flows. (English summary) (*see* **2005b:76005**)
Eymard, Robert (*with* Gallouët, Thierry) Finite volume schemes for two-phase flow in porous media. (English summary) **2005a:76107**
Faragó, István *see* **Horváth, Róbert et al., 2005f:78008** *and* **Dimov, Ivan T. et al., 2005f:86003**
Fasel, Hermann F. *see* **Linnick, Mark N.**
Faugeras, Olivier *see* **Chefd'hotel, C. et al., 2005b:94004**
Fauqueux, Sandrine *see* **Cohen, Gary C.**, (**2005b:00020**)
Fedotov, E. M. Correctness of multicomponent two-layer nonlinear operator-difference schemes. (Russian. Russian summary) **2005d:65240**
Fernández Cara, Enrique *see* **Galo, José R. et al.**
Ferreira, C. P. *see* **Zacarias, G. D. et al.**
Filbet, Francis (*with* Russo, Giovanni) Accurate numerical methods for the Boltzmann equation. (English summary) **2005d:82117**
— *see also* **Crouseilles, Nicolas, 2005f:82127**
Fisher, Robert T. *see* **Crockett, Robert K. et al., 2005j:76065**
Formaggia, Luca *see* **Quarteroni, Alfio, 2005f:76119**
Fowkes, Neville *see* **Carey, Graham F. et al., 2005a:76163**
Fu, Shang Wu (*with* Dai, Zi Huan; Wu, Ji Ming; Shen, Long Jun) A pressure weighted method for a momentum equation. (Chinese. English summary) **2005h:76063**
Fuchs, László[2] *see* **Caraeni, D., 2005k:76093**
Fukuoka, Nobuyuki *see* **Hirota, Chiaki et al., 2005a:37144**
Furtado, Frederico *see* **Abreu, Eduardo et al., 2005k:76126**
Galkin, V. A. Background of computations for mathematical models, based on conservation laws systems and applications to fluid dynamics. (English summary) (*see* **2005b:76005**)
Gallouët, Thierry *see* **Eymard, Robert, 2005a:76107**
Galo, José R. (*with* Albarreal Núñez, Isidoro I.; Calzada Canalejo, M. Carmen; Cruz Soto, José Luis; Fernández Cara, Enrique; Marín Beltrán, Mercedes) Simultaneous directions parallel methods for elliptic and parabolic systems. (English and French summaries)
Ganerwal, G. *see* **Sengupta, T. K. et al., 2005g:76088**

García-Rodríguez, J. A. *see* Castro-Díaz, Manuel Jesús et al., 2005i:86004 *and* (2005b:00020)
Garfinkle, David (*with* Isenberg, James) Numerical studies of the behavior of Ricci flow. (English summary) 2005i:53082
Gaspar, Francisco J. (*with* Lisbona, Francisco J.; Vabishchevich, Petr N.) A numerical model for the radial flow through porous and deformable shells. (English summary) 2005i:76103
Gervais, Véronique (*with* Masson, Roland) Mathematical and numerical analysis of a stratigraphic model. (English summary) 2005g:86027
Ghidaglia, Jean-Michel (*with* Pascal, Frédéric) The normal flux method at the boundary for multidimensional finite volume approximations in CFD. (English summary) 2005m:76121
Givoli, Dan *see* van Joolen, Vince J. et al., 2005m:35166
Glaister, P. *see* Bailey, D. A. et al., 2005j:76064
González, Hernán A. On predicting incompressible flows by using a stabilized finite difference method with penalty. (English summary) 2005e:76061
González Vida, José M. *see* Castro-Díaz, Manuel Jesús et al., 2005i:86004 *and* (2005b:00020)
Gorban′, Ī. M. *see* Gorban′, V. A., 2005i:76041
Gorban′, V. A. (*with* Gorban′, Ī. M.) Theoretical analysis of vortex generation processes and vortex dynamics in channels. (Ukrainian. English, Russian and Ukrainian summaries) 2005i:76041
Gottlieb, David (*with* Temam, Roger) Spatial discretization of the dusty gas equations. (English summary) 2005a:76157
Graur, I. A. Splitting difference schemes, constructed on the basis of quasi-gas-dynamic equations, for the solution of Euler equations. (Russian. Russian summary) 2005a:76111
Greer, John B. *see* Bertozzi, Andrea L., 2005b:35110
Gromyko, G. F. *see* Popova, Liuba Ivanova et al., 2005k:76088
Groppi, Maria (*with* Pennacchio, Micol) An IMEX finite volume scheme for reactive Euler equations arising from kinetic theory. (English summary) 2005d:82107
Guardone, A. *see* Quartapelle, L. et al., 2005a:76136
Guiné, Raquel P. F. Development of an algorithm based on space refinement to solve a system of parabolic PDE's. (English summary) 2005i:65136
Guntaka, A. *see* Sengupta, T. K. et al.
Gurski, K. F. An HLLC-type approximate Riemann solver for ideal magnetohydrodynamics. (English summary) 2005c:76067
Gustafsson, Bertil *see* Brüger, Arnim et al., 2005f:76071
Haider, Mansoor A. A radial biphasic model for local cell-matrix mechanics in articular cartilage. (English summary) 2005c:92004
Havasi, Á. *see* Dimov, Ivan T. et al., 2005f:86003
Hayat, Tasawar *see* Wang, Yongqi et al., 2005h:76103
Hegarty, Alan F. (*with* O'Brien, Stephen B. G.; Sikwila, Stephen) Numerical solution of a rimming flow problem using a moving mesh method. (English summary) 2005a:76058
Helzel, Christiane (*with* Berger, Marsha J.; LeVeque, Randall J.) A high-resolution rotated grid method for conservation laws with embedded geometries. (English summary) 2005i:35180
Hérard, Jean-Marc *see* Perron, Sébastien et al., 2005d:76027
Hirota, Chiaki (*with* Ide, Takanori; Fukuoka, Nobuyuki; Okada, Masami) Generalized energy integrals and energy conserving numerical schemes for partial differential equations. 2005a:37144
Horváth, Róbert (*with* Faragó, István; Schilders, W. H. A.) Iterative solution methods of the Maxwell equations using staggered grid spatial discretization. 2005f:78008
Hu, Shuhua *see* Ackleh, Azmy S. et al., 2005i:35170
Huang, Chieh-Sen (*with* Wang, Song[1]; Teo, Kok Lay) On application of an alternating direction method to Hamilton-Jacobi-Bellman equations. (English summary) 2005f:49080
Huot, P. *see* Benzoni-Gavage, S. et al., 2005j:35147
Ide, Takanori *see* Hirota, Chiaki et al., 2005a:37144
Ifidon, E. O. Numerical studies of viscous incompressible flow between two rotating concentric spheres. 2005f:76106
Igel, Heiner *see* Ionescu, Dorin-Cezar, (2005g:00014)
Ignat, Liviu I. (*with* Zuazua, Enrique) Dispersive properties of a viscous numerical scheme for the Schrödinger equation. (English and French summaries) 2005k:35346
Iliev, Oleg *see* Čiegis, Raimondas et al., 2005h:76004
Ionescu, Dorin-Cezar (*with* Igel, Heiner) Transparent boundary conditions for wave propagation on unbounded domains. (English summary) (*see* 2005g:00014)
Isenberg, James *see* Garfinkle, David, 2005i:53082
Iserles, Arieh On the method of Neumann series for highly oscillatory equations. (English summary) 2005g:65101
Islas, A. L. (*with* Schober, C. M.) Backward error analysis for a multi-symplectic integrator. (*see* 2005b:00020)
— (*with* Schober, C. M.) On the preservation of phase space structure under multisymplectic discretization. (English summary) 2005b:37200
Ivanauskas, Feliksas (*with* Kareiva, Aivaras; Lapcun, Bogdanas) On the modelling of solid state reactions. Synthesis of YAG. (English summary) 2005m:35155
— *see also* Baronas, R. et al., 2005b:35141
Ivanchikov, A. A. *see* Chizhonkov, E. V., 2005g:76084
Jaouen, Stéphane *see* Clarisse, Jean-Marie et al., 2005a:76109
Jeltsch, Rolf *see* Sawyer, William, (2005j:65003)
Jenny, P. (*with* Lee, Seong Hee; Tchelep, H. A.) Adaptive multiscale finite-volume method for multiphase flow and transport in porous media. (English summary) 2005i:76076
Jia, Chunxia *see* Tan, Yong Ji, (2005d:35008)
Jódar, Lucas *see* Casabán, M. C. et al., 2005k:65209
Joly, Patrick *see* Bécache, Eliane et al., (2005b:00020) *and* (2005b:00020)
van Joolen, Vince J. (*with* Neta, Beny; Givoli, Dan) High-order Higdon-like boundary conditions for exterior transient wave problems. (English summary) 2005m:35166
Jouve, François *see* Allaire, Grégoire et al., 2005a:74079
Jovanović, Boško S. (*with* Volkov, Lyuben G.) Stability of difference schemes for parabolic equations with dynamical boundary conditions and conditions on conjugation. (English summary) 2005j:65092
Ju, Lili *see* Du, Qiang, 2005f:82138
Kačur, J. (*with* Malengier, B.; Remešíková, M.) Solution of contaminant transport with equilibrium and non-equilibrium adsorption. (English summary) 2005g:76119
Kagan, Leonid (*with* Minaev, S.; Sivashinsky, Gregory) On self-drifting flame balls. (English summary) 2005d:80009
Kaladze, T. (*with* Rogava, Dzh. L.; Tsamalashvili, L.; Tsiklauri, Mikheil) Implicit difference schemes for the Charney-Obukhov equation. (English and Georgian summaries) 2005b:86030
— (*with* Rogava, Dzh. L.; Tsamalashvili, L.; Tsiklauri, Mikheil) First- and second-order accurate implicit difference schemes for the Charney-Obukhov equation. (English summary) 2005b:76094
Kannan, K. *see* Venkataraman, V., 2005k:76125
Kanoh, M. (*with* Okuzono, H.; Nakamura, N.; Kuroki, Takemi) Wave and water motion analysis using combined boundary element and weighted finite difference method. (English summary) (*see* 2005d:65006)
Kantur, Olga (*with* Tsybulin, Vyacheslav) Numerical study of convection of multicomponent fluid in porous medium. (English summary) (*see* 2005j:65003)
Karaa, Samir (*with* Zhang, Jun[2]; Yang, Fuqian) A numerical study of a 3D bioheat transfer problem with different spatial heating. (English summary) 2005m:80012
Kareiva, Aivaras *see* Ivanauskas, Feliksas et al., 2005m:35155
Karlsen, Kenneth H. *see* Berres, Stefan et al., 2005g:35185 *and* Bürger, Raimund et al., 2005m:80011
Karni, Smadar *see* Keen, Benjamin, 2005k:76105
Kassoy, D. R. *see* Staab, P. L. et al., 2005i:76095
Katsaounis, Theodoros *see* Delis, A. I., 2005i:76080
Keen, Benjamin (*with* Karni, Smadar) A second order kinetic scheme for gas dynamics on arbitrary grids. (English summary) 2005k:76105
Khokhlov, A. M. (*with* Novikov, Igor D.) Scalar hyperbolic equation with GR-type nonlinearity. (English summary) 2005b:83002
Klar, Axel (*with* Thömmes, Guido) Numerical methods for radiative heat transfer in diffusive regimes and applications to glass manufacturing. (English summary) 2005b:85004
— *see also* Banda, Mapundi Kondwani et al., 2005g:35239
Klein, Richard J. *see* Crockett, Robert K. et al., 2005j:76065
Klein, Rupert *see* Audusse, Emmanuel et al., 2005f:76069
Knabner, Peter *see* Radu, Adrian Florin et al., 2005m:65189
Kozel, Karel (*with* Louda, Petr; Sváček, Petr) Numerical solution of flow in backward facing step. (English summary) (*see* 2005j:65003)
Kreiss, Gunilla *see* Appelö, Daniel, (2005b:00020)
Krukier, Lev A. (*with* Lapshina, O. A.) Difference schemes for solving equations with dominant processes. (English summary) (*see* 2005i:65006)
— (*with* Subbotina, T. N.) On a class of triangular skew-symmetric schemes for solving the nonstationary convection-diffusion equation. (Russian) 2005i:65131
Krylovas, Aleksandras (*with* Čiegis, Raimondas) Asymptotic analysis of weakly nonlinear systems. (English summary) (*see* 2005c:65004)
Kulys, J. *see* Baronas, R. et al., 2005b:35141
Kunisch, Karl (*with* Xie, L.) POD-based feedback control of the Burgers equation by solving the evolutionary HJB equation. (English summary) 2005k:49104
Kuroki, Takemi *see* Kanoh, M. et al., (2005d:65006)
Kusano, Kanya *see* Miyoshi, Takahiro, 2005m:76123
Labrunie, Simon (*with* Carrillo, José-Antonio; Bertrand, Pierre) Numerical study on hydrodynamic and quasi-neutral approximations for collisionless two-species plasmas. (English summary) 2005d:76046
Lacor, Chris *see* Broeckhoven, Tim et al.
Lamby, Ph. *see* Bramkamp, F. et al., 2005a:76106
Lapcun, Bogdanas *see* Ivanauskas, Feliksas et al., 2005m:35155
Lapshina, O. A. *see* Krukier, Lev A., (2005i:65006)
Lazarovici, A. (*with* Vol′pert, Vit. A.; Merkin, John H.) Steady states, oscillations and heat explosion in a combustion problem with convection. (English summary) 2005i:80005
Lee, Seong Hee *see* Jenny, P. et al., 2005i:76076
Lee, Yong-Joong (*with* Munz, Claus-Dieter) Advanced hyperbolic divergence cleaning scheme for shallow water magnetohydrodynamics. (English summary) 2005a:35193
Lehner, Luis *see* Calabrese, Gioel et al., 2005m:83003
Le Métayer, O. (*with* Massoni, J.; Saurel, Richard) Modelling evaporation fronts with reactive Riemann solvers. (English summary) 2005m:76136
LeVeque, Randall J. The dynamics of pressureless dust clouds and delta waves. (English summary) 2005k:76109
— *see also* Helzel, Christiane et al., 2005i:35180
Liang, Dong (*with* Wu, Jian Hong; Zhang, Fan[4]) Modelling population growth with delayed nonlocal reaction in 2-dimensions. (English summary) 2005k:35411
Lines, Glenn Terje *see* Sundnes, Joakim et al., 2005m:92011
Linnick, Mark N. (*with* Fasel, Hermann F.) A high-order immersed interface method for simulating unsteady incompressible flows on irregular domains. (English summary)
Lisbona, Francisco J. *see* Gaspar, Francisco J. et al., 2005i:76103
Liu, Jian-Guo[1] (*with* Wang, Wei-Cheng) Energy and helicity preserving schemes for hydro- and magnetohydro-dynamics flows with symmetry. (English summary)
Liu, Miao Er (*with* Ren, Yu Xin; Zhang, Han Xin) A class of fully second order accurate projection methods for solving the incompressible Navier-Stokes equations. (English summary) 2005g:76092
Liu, Xueshen[2] (*with* Ding, Peizhu) Dynamic properties of cubic nonlinear Schrödinger equation with varying nonlinear parameter. (English summary) 2005b:35261
Lötstedt, Per (*with* Ramage, Alison; von Sydow, Lina; Söderberg, Stefan) Preconditioned implicit solution of linear hyperbolic equations with adaptivity. (English summary) 2005d:65159
— *see also* Brüger, Arnim et al., 2005f:76071
Louda, Petr *see* Kozel, Karel et al., (2005j:65003)
Luo, Jun (*with* Wu, Xiong Hua) Numerical method for pricing Parisian options. (Chinese. English summary)
Lyrintzis, Anastasios S. *see* Zhang, Xiangang et al.
Ma, Ming Shu *see* Wang, Tong Ke, 2005j:65098
Macías Sánchez, Jorge *see* Castro-Díaz, Manuel Jesús et al., (2005b:00020)

Malaguti, Luisa (*with* Řehák, Pavel; Taddei, V.) Bounded solutions and wavefronts for discrete dynamics. (English summary) **2005c:39013**
Malengier, B. *see* **Kačur, J. et al., 2005g:76119**
Mandal, Prasanta Kumar *see* **Chakravarty, Santabrata et al., 2005i:76133**
Marella, S. (*with* Tran, L. B.; Udaykumar, H. S.) A level-set based sharp interface method for three-dimensional incompressible flows with complex moving boundaries. (English summary) (*see* **2005b:65003**)
Marín Beltrán, Mercedes *see* **Galo, José R. et al.**
Marson, Andrea Nonconvex conservation laws and ordinary differential equations. (English summary) **2005g:35209**
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Massoni, J. *see* **Le Métayer, O. et al., 2005m:76136**
Mathew, Joseph[1] *see* **Chakravorty, Saugata, 2005b:76092**
Matus, Petr P. (*with* Melnik, Roderick V. N.; Wang, Linxiang; Rybak, I. V.) Applications of fully conservative schemes in nonlinear thermoelasticity: modelling shape memory materials. (English summary) **2005b:74101**
Mazhorova, O. S. *see* **Chtcheritsa, O. V. et al.**
McKee, Christopher I. *see* **Crockett, Robert K. et al., 2005j:76065**
Mead, J. L. The shallow water equations in Lagrangian coordinates. (English summary) **2005d:76006**
Melnik, Roderick V. N. Constructing operator-difference schemes for problems with matching boundaries. (English summary) (*see* **2005d:39001**)
— *see also* **Matus, Petr P. et al., 2005b:74101**
Merazga, Nabil *see* **Bouziani, Abdelfatah, 2005d:35172**
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Mieussens, Luc *see* **Charrier, Pierre et al., 2005e:82040**
Miller, Gregory H. *see* **Trebotich, D. et al.**
Milyukova, O. Yu. *see* **Elizarova, T. G., (2005b:76005)**
Minaev, S. *see* **Kagan, Leonid et al., 2005d:80009**
Miyoshi, Takahiro (*with* Kusano, Kanya) A multi-state HLL approximate Riemann solver for ideal magnetohydrodynamics. (English summary) **2005m:76123**
Morrone, Biagio *see* **Campo, Antonio, 2005f:80018**
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Munz, Claus-Dieter *see* **Lee, Yong-Joong, 2005a:35193**
Murakawa, Hideki (*with* Nakaki, Tatsuyuki) A singular limit method for the Stefan problems. (English summary) (*see* **2005j:65003**)
Murillo, Maria (*with* Cai, Xiao-Chuan) A fully implicit parallel algorithm for simulating the non-linear electrical activity of the heart. (English summary) **2005f:65123**
Naidoo, R. (*with* Baboolal, S.) A semi-discrete numerical solution of the plasma fluid equations and solitons. (English summary)
Nakaki, Tatsuyuki *see* **Murakawa, Hideki, (2005j:65003)**
Nakamura, N. *see* **Kanoh, M. et al., (2005d:65006)**
Naulin, Volker (*with* Nielsen, Anders H.) Accuracy of spectral and finite difference schemes in 2D advection problems. (English summary) **2005a:76048**
Neta, Beny *see* **van Joolen, Vince J. et al., 2005m:35166**
Nielsen, Anders H. *see* **Naulin, Volker, 2005a:76048**
Nikiforakis, N. *see* **Patterson, M. D. et al., 2005k:86010**
Nilsson, Jonas *see* **Brüger, Arnim et al., 2005f:76071**
Nishiyama, Takahiro Construction of solutions to the two-dimensional stationary Euler equations by the pseudo-advection method. (English summary) **2005b:76017**
Novikov, Igor D. *see* **Khokhlov, A. M., 2005b:83002**
O'Brien, Stephen B. G. *see* **Hegarty, Alan F. et al., 2005a:76058**
Ohwada, Taku (*with* Xu, Kun) The kinetic scheme for the full-Burnett equations. (English summary) **2005g:82116**
Okada, Masami *see* **Hirota, Chiaki et al., 2005a:37144**
Okuzono, H. *see* **Kanoh, M. et al., (2005d:65006)**
Oliver, Marcel (*with* West, Matthew; Wulff, Claudia) Approximate momentum conservation for spatial semidiscretizations of semilinear wave equations. (English summary) **2005d:65152**
Osher, Stanley Level set methods. (English summary) (*see* **2005a:94002**)
Ossandón, G. A. *see* **Casabán, M. C. et al., 2005k:65209**
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Pareschi, Lorenzo *see* **Banda, Mapundi Kondwani et al., 2005g:35239**
Pascal, Frédéric *see* **Ghidaglia, Jean-Michel, 2005m:76121**
Patterson, M. D. (*with* Simpson, John E.; Dalziel, S. B.; Nikiforakis, N.) Numerical modelling of two-dimensional and axisymmetric gravity currents. (English summary) **2005k:86010**
Pennacchio, Micol *see* **Groppi, Maria, 2005d:82107**
Pereira, Felipe *see* **Abreu, Eduardo et al., 2005k:76126**
Perron, Sébastien (*with* Boivin, Sylvain; Hérard, Jean-Marc) A finite volume method to solve the 3D Navier-Stokes equations on unstructured collocated meshes. (English summary) **2005d:76027**
Perthame, Benoît *see* **Audusse, Emmanuel et al., 2005f:76069**
Pop, Iuliu Sorin *see* **Radu, Adrian Florin et al., 2005m:65189**
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Popov, Aleksandr Vladimirovich *see* **Zhukov, K. A., (2005b:00029)**
Popov, Yu. P. *see* **Chtcheritsa, O. V. et al.**
Popova, Liuba Ivanova (*with* Gromyko, G. F.; Tabakova, S. S.) Numerical solution of a nonlinear one-dimensional system of differential equations describing the motion of a free thin film. (Russian. Russian summary) **2005k:76088**
Popovici, Constantin I. The numerical solution of the free boundary problem of electrodiffusion in a bipolar membrane (the diode semiconductor). (English summary) **2005e:80006**
Qamar, Shamsul (*with* Warnecke, Gerald G.) Simulation of multicomponent flows using high order central schemes. (English summary) **2005a:76113**
Qin, Meng Zhao *see* **Wang, Yu Shun et al., 2005d:65238**
Quaranta, G. *see* **Quartapelle, L. et al., 2005a:76136**
Quartapelle, L. (*with* Castelletti, L.; Guardone, A.; Quaranta, G.) Solution of the Riemann problem of classical gasdynamics. (English summary) **2005a:76136**
Quarteroni, Alfio (*with* Formaggia, Luca) Mathematical modelling and numerical simulation of the cardiovascular system. **2005f:76119**
Radu, Adrian Florin (*with* Pop, Iuliu Sorin; Knabner, Peter) Order of convergence estimates for an Euler implicit, mixed finite element discretization of Richards' equation. (English summary) **2005m:65189**
Răducanu, Răzvan A note on the Danilovskaia's problem. (English summary) **2005b:74036**
Ramage, Alison *see* **Lötstedt, Per et al., 2005d:65159**
Ramboer, Jan *see* **Broeckhoven, Tim et al.**
Rasulov, Mahir The finite differences scheme for the first order system of nonlinear differential equations in a class of discontinuous functions. (English summary) **2005b:76096**
— (*with* Aslan, Zafer; Pakdil, Ozkan) Finite differences method for shallow water equations in a class of discontinuous functions. (English summary) **2005g:76087**
Raviart, Pierre-Arnaud *see* **Clarisse, Jean-Marie et al., 2005a:76109**
Řehák, Pavel *see* **Malaguti, Luisa et al., 2005c:39013**
Remešíková, M. Solution of convection-diffusion problems with nonequilibrium adsorption. (English summary) **2005c:35151**
— *see also* **Kačur, J. et al., 2005g:76119**
Rempe, M. J. *see* **Staab, P. L. et al., 2005i:76095**
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Rousset, Frédéric *see* **Benzoni-Gavage, S. et al., 2005j:35147**
Rundo, Francesco A cellular neural network applied to the equations of mathematical physics. (English summary) (*see* **2005c:00016**)
Russo, Giovanni *see* **Filbet, Francis, 2005d:82117** *and* **Teshukov, Vladimir et al., 2005i:76021**
Rybak, I. V. *see* **Matus, Petr P. et al., 2005b:74101**
Salmon, Rick Poisson-bracket approach to the construction of energy- and potential-enstrophy-conserving algorithms for the shallow-water equations. (English summary) **2005g:86008**
Sarbach, Olivier *see* **Calabrese, Gioel et al., 2005m:83003**
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Sawyer, William (*with* Jeltsch, Rolf) A finite-volume mass- and vorticity-conserving shallow-water model using penta-/hexagonal grids. (English summary) (*see* **2005j:65003**)
Scarella, Gilles *see* **Bécache, Eliane et al., (2005b:00020)**
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Schober, C. M. *see* **Islas, A. L., 2005b:37200** *and* **(2005b:00020)**
Seaïd, Mohammed Non-oscillatory relaxation methods for the shallow-water equations in one and two space dimensions. (English summary) **2005c:76071**
— *see also* **Banda, Mapundi Kondwani et al., 2005g:35239**
Segal, August *see* **Vidović, Dragan et al., 2005a:76108**
Sengupta, T. K. (*with* Ganerwal, G.; Dipankar, Anurag) High accuracy compact schemes and Gibbs' phenomenon. (English summary) **2005g:76088**
— (*with* Guntaka, A.; Dey, S.) Navier-Stokes solution by new compact scheme for incompressible flows. (English summary)
Shen, Long Jun *see* **Fu, Shang Wu et al., 2005h:76063**
Shishkin, Grigorii I. On numerical methods on adaptive meshes for a singularly perturbed reaction-diffusion equation with a moving concentrated source. (English summary) (*see* **2005c:65004**)
— *see also* **Ansari, Ali R., (2005i:65006)**
Shu, Chi-Wang *see* **Xing, Yulong, 2005m:76125**
Shukla, Ratnesh K. (*with* Zhong, Xiaolin) Derivation of high-order compact finite difference schemes for non-uniform grid using polynomial interpolation. (English summary)
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Singer, Michael A.[2] (*with* Pope, Stephen B.) Exploiting ISAT to solve the reaction-diffusion equation. (English summary) **2005g:80017**
Sivashinsky, Gregory *see* **Kagan, Leonid et al., 2005d:80009**
Slavov, Vladimir (*with* Dimova, Stefka) Phase-field modeling of dendritic interaction in 2D. (English and Bulgarian summaries) (*see* **2005f:00011**)
Smirnov, Sergey *see* **Broeckhoven, Tim et al.**
Sobolevskii, Pavel E. *see* **Ashyralyev, Allaberen, 2005g:65003**
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Song, Huai Ling Finite volume methods for two-phase incompressible flow in porous media. (Chinese. English and Chinese summaries) **2005g:76080**
Sopta, Luka *see* **Črnjarić-Žic, Nelida et al., 2005d:76028**
Spelt, Peter D. M. A level-set approach for simulations of flows with multiple moving contact lines with hysteresis. (English summary) **2005m:76124**
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Strikwerda, John C. ★ Finite difference schemes and partial differential equations. **2005i:65004**
Subbotina, T. N. *see* **Krukier, Lev A., 2005i:65131**
Sukhinov, A. I. (*with* Vasiliev, V. S.) Three-dimensional models for shallow water basin and its finite difference realization. (English summary) (*see* **2005c:65004**)

Sundberg, S. (*with* von Sydow, Lina) Semi-Toeplitz preconditioning for the linearized Navier-Stokes equations. (English summary) **2005k:76103**
Sundnes, Joakim (*with* Lines, Glenn Terje; Tveito, Aslak) An operator splitting method for solving the bidomain equations coupled to a volume conductor model for the torso. (English summary) **2005m:92011**
Sváček, Petr *see* **Kozel, Karel et al.**, (2005j:65003)
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von Sydow, Lina *see* **Lötstedt, Per et al.**, 2005d:65159 *and* **Sundberg, S.**, 2005k:76103
Szymkiewicz, R. (*with* Weinerowska, K.) Analytical-numerical approach to solve the transport equation for steady gradually varied flow in open channel. (English summary) **2005m:76140**
Tabakova, S. S. *see* **Popova, Liuba Ivanova et al.**, 2005k:76088
Taddei, V. *see* **Malaguti, Luisa et al.**, 2005c:39013
Tadmor, Eitan *see* **Balbás, Jorge et al.**, 2005f:76070
Tam, Christopher K. W. Computational aeroacoustics: an overview of computational challenges and applications. (English summary) **2005b:76124**
Tamaddon-Jahromi, H. R. *see* **Webster, M. F. et al.**, 2005h:76059
Tan, Yong Ji (*with* Jia, Chunxia) Inverse problem of reconstructing the parabolic equation's initial value and the heat radiative coefficient. (English summary) (*see* **2005d:35008**)
Tanaka, Nobuatsu (*with* Motoyama, Yasunori) Error estimation of numerical solutions of linear convection-diffusion problem. (English summary) **2005i:65134**
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Tang, Yun-Hai A high-order streamline Godunov scheme for steady hypersonic chemical nonequilibrium expanding flows. (English summary) **2005a:92023**
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Terzopoulos, Demetri Deformable models: classic, topology-adaptive and generalized formulations. (English summary) (*see* **2005a:94002**)
Teshukov, Vladimir (*with* Russo, Giovanni; Chesnokov, Aleksandr Aleksandrovich) Analytical and numerical solutions of the shallow water equations for 2D rotational flows. (English summary) **2005i:76021**
Thömmes, Guido *see* **Klar, Axel**, 2005b:85004
Tiglio, Manuel *see* **Calabrese, Gioel et al.**, 2005m:83003
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Tran, Quang Huy *see* **Baudin, Michaël et al.**, 2005h:76079
Trebotich, D. (*with* Colella, Phillip; Miller, Gregory H.) A stable and convergent scheme for viscoelastic flow in contraction channels. (English summary)
Tsamalashvili, L. *see* **Kaladze, T. et al.**, 2005b:76094 *and* 2005b:86030
Tschumperlé, D. *see* **Chefd'hotel, C. et al.**, 2005b:94004
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Venkataraman, V. (*with* Kannan, K.) Numerical solution of Stokes problem for free convection effects in dissipative dusty medium. (English summary) **2005k:76125**
Verma, Anil Kumar (*with* Chandra, Sanjay; Dhindaw, B. K.) An alternative fixed grid method for solution of the classical one-phase Stefan problem. (English summary) **2005g:80016**
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Wang, Cheng[4] Convergence analysis of the numerical method for the primitive equations formulated in mean vorticity on a Cartesian grid. (English summary) **2005m:76184**
Wang, J. W. (*with* Zhang, Qing[1]) Pricing defaultable bond with regime switching. (English summary) (*see* **2005b:91010**)
Wang, Linxiang *see* **Matus, Petr P. et al.**, 2005b:74101
Wang, Song[1] A novel fitted finite volume method for the Black-Scholes equation governing option pricing. (English summary) **2005i:91069**
— *see also* **Huang, Chieh-Sen et al.**, 2005f:49080
Wang, Tong Ke (*with* Ma, Ming Shu) A family of second-order characteristic difference schemes for two-dimensional convection-diffusion equations. (Chinese. English and Chinese summaries) **2005j:65098**
Wang, Wei-Cheng *see* **Liu, Jian-Guo[1]**
Wang, Yongqi (*with* Hayat, Tasawar; Siddiqui, Abdul Majeed) Gliding motion of bacteria on power-law slime. (English summary) **2005h:76103**
Wang, Yu Shun (*with* Wang, Bin[1]; Qin, Meng Zhao) Numerical implementation of the multisymplectic Preissman scheme and its equivalent schemes. (English summary) **2005d:65238**
Warnecke, Gerald G. *see* **Qamar, Shamsul**, 2005a:76113
Webster, M. F. (*with* Tamaddon-Jahromi, H. R.; Aboubacar, M.) Time-dependent algorithms for viscoelastic flow: finite element/volume schemes. (English summary) **2005h:76059**
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Zacarias, G. D. (*with* Ferreira, C. P.; Velasco-Hernández, J. X.) Porosity and tortuosity relations as revealed by a mathematical model of biofilm structure. (English summary)
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Zhang, Qing[1] *see* **Wang, J. W.**, (2005b:91010)
Zhang, Xiangang (*with* Blaisdell, Gregory A.; Lyrintzis, Anastasios S.) High-order compact schemes with filters on multi-block domains. (English summary)
Zhang, Zhi Yue Convergence of discrete vector solution for nonlinear parabolic systems. (Chinese. English and Chinese summaries) **2005m:65190**
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Zhu, Baoshan Finite volume solution of the Navier-Stokes equations in velocity-vorticity formulation. (English summary)
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Zhukov, K. A. (*with* Popov, Aleksandr Vladimirovich) An efficient difference scheme for the unsteady motion of a viscous weakly compressible gas. (Russian. Russian summary) (*see* **2005b:00029**)
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He, Yinnian (*with* Miao, Huanling; Mattheij, Robert M. M.; Chen, Zhangxin) Numerical analysis of a modified finite element nonlinear Galerkin method. (English summary) **2005m:65188**

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Jovanović, Boško S. (*with* Volkov, Lyuben G.) Stability of difference schemes for parabolic equations with dynamical boundary conditions and conditions on conjugation. (English summary) **2005j:65092**

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Larsson, Stig Preservation of strong stability associated with analytic semigroups. (*see* **2005h:65004**)

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Siklosi, Malin (*with* Kreiss, Gunilla) Elimination of first order errors in time dependent shock calculations. (English summary) (*see* **2005b:00020**)

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Tadmor, Eitan From semidiscrete to fully discrete: stability of Runge-Kutta schemes by the energy method. II. (*see* **2005h:65004**)

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Yang, Huanan (*with* Jiang, Nan[1]) On wavewise entropy inequalities for high-resolution schemes with source terms. I. The semi-discrete case. (English summary) **2005h:65146**

Ye, Mao Numerical boundary layers of conservation laws with relaxation extension. (English summary) **2005j:65094**

Ye, Mao Existence and asymptotic stability of relaxation discrete shock profiles. (English summary) **2005b:65100**

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— (*with* Cano, B.; Jorge, J. C.) Spectral-fractional step Runge-Kutta discretizations for initial boundary value problems with time dependent boundary conditions. (English summary) **2005e:65134**

Andreyanov, Boris P. (*with* Gutnic, Michaël; Wittbold, Petra) Convergence of finite volume approximations for a nonlinear elliptic-parabolic problem: a "continuous" approach. (English summary) **2005e:65114**

Angelov, Rumen Angelov (*with* Kama, P.; Lubuma, J. M.-S.) On non-standard finite difference models of reaction-diffusion equations. (English summary) **2005k:65163**

Arnold, Anton (*with* Ehrhardt, Matthias; Sofronov, Ivan L.) Discrete transparent boundary conditions for the Schrödinger equation: fast calculation, approximation, and stability. (English summary) **2005g:65121**

Arvanitis, Christos (*with* Makridakis, Charalambos; Tzavaras, Athanasios E.) Stability and convergence of a class of finite element schemes for hyperbolic systems of conservation laws. (English summary) **2005m:65204**

Ayati, Bruce P. (*with* Dupont, Todd F.) Convergence of a step-doubling Galerkin method for parabolic problems. (English summary) **2005k:35166**

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Banushkina, P. V. (*with* Laevskiĭ, Yu. M.; Zotkevich, A. A.) On local conditions of stability for multi-level difference schemes. (*see* **2005i:65006**)

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— (*with* Sun, Fangfang) Efficient and stable numerical methods for the generalized and vector Zakharov system. (English summary) **2005m:65192**

Baranowska, A. (*with* Kamont, Z.) Stability of difference problems generated by hyperbolic first order partial differential systems. (English summary) **2005i:65116**

Barrett, John W.[1] (*with* Nürnberg, Robert) Convergence of a finite-element approximation of surfactant spreading on a thin film in the presence of van der Waals forces. (English summary) **2005a:65099**

— (*with* Blowey, James F.) Finite element approximation of a nonlinear cross-diffusion population model. (English summary) **2005f:65125**

— (*with* Nürnberg, Robert; Styles, Vanessa) Finite element approximation of a phase field model for void electromigration. (English summary) **2005m:65206**

Baudin, Michaël (*with* Coquel, Frédéric; Tran, Quang Huy) A time semi-implicit relaxation scheme for two-phase flows in pipelines. (English summary) **2005k:65164**

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Blowey, James F. *see* **Barrett, John W.**[1], **2005f:65125**

Bochev, Pavel B. (*with* Gunzburger, Max D.; Shadid, John N.) Stability of the SUPG finite element method for transient advection-diffusion problems. (English summary) **2005a:65100**

Boffi, Daniele (*with* Gastaldi, Lucia) Stability and geometric conservation laws for ALE formulations. (English summary) **2005d:65164**

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Burman, Erik (*with* Kessler, Daniel; Rappaz, Jacques) Convergence of the finite element method applied to an anisotropic phase-field model. (English summary) **2005h:65161**

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Casabán, M. C. (*with* Jódar, Lucas; Ossandón, G. A.) A discrete Fourier method for numerical solution of strongly coupled mixed parabolic systems. (English summary) **2005k:65209**

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Chatzipantelidis, P. (*with* Lazarov, R. D.; Thomée, Vidar) Error estimates for a finite volume element method for parabolic equations in convex polygonal domains. (English summary) **2005g:65122**

Chawla, Man M. Linearly implicit extended trapezoidal formulas for nonlinear differential equations. (English summary) **2005j:65082**

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— (*with* Gallouët, Thierry; Granjeon, D.; Masson, Roland; Tran, Quang Huy) Multilithology stratigraphic model under maximum erosion rate constraint. (English summary) **2005a:86029**

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— (*with* Liu, Jian-Guo[1]; Johnston, Hans) Analysis of a fourth order finite difference method for the incompressible Boussinesq equations. (English summary) **2005b:65097**
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Tone, Florentina Error analysis for a second order scheme for the Navier-Stokes equations. (English summary) **2005b:65101**
Verfürth, Rüdiger *see* **Bernardi, Christine, 2005g:65131**
Yan, Yubin Smoothing A properties and approximation of time derivatives for parabolic equations: variable time steps. (English summary) **2005a:65092**
Yang, Xiao Zhong *see* **Gong, Jing et al., 2005i:65133**
Zhang, Qiang[3] (*with* Shu, Chi-Wang) Error estimates to smooth solutions of Runge-Kutta discontinuous Galerkin methods for scalar conservation laws. (English summary) **2005h:65149**

Items with secondary classifications in 65M15

Adolfsson, Klas (*with* Enelund, M.; Larsson, Stig) Adaptive discretization of fractional order viscoelasticity using sparse time history. (English summary) **2005d:74008**
Akrivis, Georgios (*with* Makridakis, Charalambos) Galerkin time-stepping methods for nonlinear parabolic equations. (English summary) **2005f:65124**
— (*with* Crouzeix, Michel) Linearly implicit methods for nonlinear parabolic equations. (English summary) **2005a:65097**
Alekseev, A. K. (*with* Navon, Ionel Michael) On a posteriori pointwise error estimation using adjoint temperature and Lagrange remainder. (English summary) **2005m:65159**
Ann, M. H. (*with* Shin, Jun Yong) Error estimates for mixed finite element approximations to a linear Stefan problem. (English summary) **2005d:65163**
Barrett, John W.[1] (*with* Garcke, Harald; Nürnberg, Robert) Finite element approximation of surfactant spreading on a thin film. (English summary) **2005a:65098**
Bensaada, Mohammed (*with* Esselaoui, Driss) Numerical analysis of Euler-SUPG modified method for transient viscoelastic flow. (English summary) **2005k:65197**
Blasco, Jordi (*with* Codina, Ramon) Error estimates for an operator-splitting method for incompressible flows. (English summary) **2005d:65131**
Boutayeb, Abdesslam (*with* Chetouani, Abdelaziz) Galerkin approximation for a semi linear parabolic problem with nonlocal boundary conditions. (English summary) **2005b:65105**
Bui Kien Cuong *see* **Nguyễn Minh Chu'o'ng, 2005h:65178**
Burman, Erik (*with* Picasso, Marco; Rappaz, Jacques) Analysis and computation of dendritic growth in binary alloys using a phase-field model. (English summary) **2005k:65200**
— (*with* Kessler, Daniel; Rappaz, Jacques) Convergence of the finite element method applied to an anisotropic phase-field model. (English summary) **2005h:65161**
Bustinza, Rommel (*with* Gatica, Gabriel N.) A local discontinuous Galerkin method for nonlinear diffusion problems with mixed boundary conditions. (English summary) **2005k:65201**
Chang, Luo Domain decomposition procedures for parabolic equations with discontinuous coefficients. (Chinese. English and Chinese summaries) **2005j:65102**
Chatzipantelidis, P. (*with* Lazarov, R. D.; Thomée, Vidar) Error estimates for a finite volume element method for parabolic equations in convex polygonal domains. (English summary) **2005g:65122**
Chen, Hua (*with* Chen, Yan Ping[1]) A combined mixed finite element and discontinuous Galerkin method for compressible miscible displacement problem. (English and Chinese summaries)
Chen, Huan Zhen *see* **Zhao, Pei Xin, 2005d:65171**
Chen, Yan Ping[1] *see* **Chen, Hua**
Chen, Zhi Ming[1] (*with* Ji, Guanghua) Adaptive computation for convection dominated diffusion problems. (English summary) **2005f:65120**
Chetouani, Abdelaziz *see* **Boutayeb, Abdesslam, 2005b:65105**
Codina, Ramon *see* **Blasco, Jordi, 2005d:65131**
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Crouzeix, Michel *see* **Akrivis, Georgios, 2005a:65097**
Cui, Xia Finite volume numerical analysis for parabolic equation with Robin boundary condition. (English summary) **2005m:65165**
Dai, Jia Zun *see* **Dai, Pei Liang, 2005g:65142**
Dai, Pei Liang (*with* Dai, Jia Zun) The lumped mass nonconforming finite element methods for a parabolic problem. (Chinese. English and Chinese summaries) **2005g:65142**
Danumjaya, P. (*with* Pani, Amiya K.) Orthogonal cubic spline collocation method for the extended Fisher-Kolmogorov equation. (English summary) **2005m:65231**
Dedner, Andreas (*with* Rohde, Christian) Numerical approximation of entropy solutions for hyperbolic integro-differential equations. (English summary) **2005f:45016**
Deïneka, V. S. *see* **Sergienko, Ivan V., 2005e:65150**
Demkiv, L. I. *see* **Makarov, Vladimir L., 2005k:65177**
Doss, L. Jones (*with* Pani, Amiya K.) A qualocation method for a unidimensional single phase semilinear Stefan problem. (English summary) **2005k:65202**
Droniou, Jérôme (*with* Imbert, Cyril; Vovelle, Julien) An error estimate for the parabolic approximation of multidimensional scalar conservation laws with boundary conditions. (English and French summaries) **2005h:35228**
Du, Ning Alternating-direction characteristics finite element method for a kind of convection-dominated nonlinear parabolic systems. (English and Chinese summaries) **2005j:65096**
Dunne, Raymond K. (*with* O'Riordan, Eugene; Shishkin, Grigorii I.) A fitted mesh method for a class of singularly perturbed parabolic problems with a boundary turning point. (English summary) **2005e:65118**
Elliott, Charles M. (*with* Kay, David A.; Styles, Vanessa) Finite element analysis of a current density-electric field formulation of Bean's model for superconductivity. (English summary) **2005m:65213**
Emmrich, Etienne Error of the two-step BDF for the incompressible Navier-Stokes problem. (English summary) **2005g:76076**
Enelund, M. *see* **Adolfsson, Klas et al., 2005d:74008**
Ervin, Vincent J. (*with* Heuer, Norbert) Approximation of time-dependent, viscoelastic fluid flow: Crank-Nicolson, finite element approximation. (English summary) **2005a:65101**
— (*with* Miles, William W.) Approximation of time-dependent, multi-component, viscoelastic fluid flow. (English summary) **2005j:76058**
Esselaoui, Driss *see* **Bensaada, Mohammed, 2005k:65197**
Ewing, Richard E. (*with* Lin, Yan Ping; Wang, Jun Ping[1]; Zhang, Shu Hua[3]) L^∞-error estimates and superconvergence in maximum norm of mixed finite element methods for non-Fickian flows in porous media. (English summary) **2005k:76074**
Feng, Xiaobing (*with* Xie, Zheng Hui) A priori error estimates for a coupled finite element method and mixed finite element method for a fluid-solid interaction problem. (English summary) **2005i:74021**
— (*with* Prohl, Andreas) Analysis of gradient flow of a regularized Mumford-Shah functional for image segmentation and image inpainting. (English summary) **2005f:35136**
Fernández García, José Ramón (*with* Sofonea, Mircea) Variational and numerical analysis of the Signorini's contact problem in viscoplasticity with damage. **2005e:74040**
Fu, Chu-Li *see* **Xiong, Xiang-Tuan et al., 2005i:65126**
Gao, Fu Zheng A full-discrete finite element method with moving mesh for a class of nonlinear parabolic systems and its theoretical analysis. (Chinese. English and Chinese summaries) **2005a:65103**
Gao, Liping (*with* Liang, Dong; Zhang, Bo[1]) Error estimates for mixed finite element approximations of the viscoelasticity wave equation. (English summary) **2005i:65141**
Garcke, Harald *see* **Barrett, John W.[1] et al., 2005a:65098**
Gatica, Gabriel N. *see* **Bustinza, Rommel, 2005k:65201**
Guermond, Jean-Luc (*with* Shen, Jie[1]) On the error estimates for the rotational pressure-correction projection methods. (English summary) **2005f:65113**
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Hartmann, Ralf (*with* Houston, Paul) Goal-oriented a posteriori error estimation for multiple target functionals. **2005i:35005**
Hemker, Pieter W. (*with* Shishkin, Grigorii I.; Shishkina, L. P.) Novel direct-correction high-order, in space and time, accurate schemes for parabolic singularly perturbed convection-diffusion problems. (English summary) **2005d:65137**
Heuer, Norbert *see* **Ervin, Vincent J., 2005a:65101**
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Johnston, Hans *see* **Wang, Cheng[4] et al., 2005b:65097**
Jovanović, Boško S. (*with* Shcheglik, V. S.) The analysis of one difference scheme for the quasilinear parabolic equation. (English summary) (*see* **2005c:65004**)
Jovanović, Vladimir (*with* Rohde, Christian) Finite-volume schemes for Friedrichs systems in multiple space dimensions: a priori and a posteriori error estimates. (English summary) **2005h:65134**
Kang, Tong (*with* Ma, Chang Feng; Liang, Guo Ping) H-based $\mathbf{A}-\varphi$ approaches of approximating eddy current problem by way of solving different systems inside and outside the conductor. (English summary) **2005h:65165**
— (*with* Wu, Zheng Peng; Yu, De Hao) An H-based $\mathbf{A}-\varphi$ method with a nonmatching grid for eddy current problem with discontinuous coefficients. (English summary) **2005j:65112**
Karakashian, Ohannes A. (*with* Makridakis, Charalambos) Convergence of a continuous Galerkin method with mesh modification for nonlinear wave equations. (English summary) **2005g:65147**
Katsaounis, Theodoros (*with* Simeoni, Chiara) First and second order error estimates for the upwind source at interface method. (English summary) **2005h:65136**
Kay, David A. *see* **Elliott, Charles M. et al., 2005m:65213**
Kessler, Daniel *see* **Burman, Erik et al., 2005h:65161**
Kim, Mi-Young[2] (*with* Yin, Y. X.) A discontinuous Galerkin method for a model of population dynamics. (English summary) **2005e:65146**
Knabner, Peter *see* **Schneid, Eckhard et al., 2005g:65150** *and* **Radu, Adrian Florin et al., 2005m:65189**
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Lazarov, R. D. *see* **Chatzipantelidis, P. et al., 2005g:65122**
Lehner, Luis (*with* Neilsen, David W.; Reula, Oscar A.; Tiglio, Manuel) The discrete energy method in numerical relativity: towards long-term stability. (English summary) **2005h:83004**
Li, Hong-Fang *see* **Xiong, Xiang-Tuan et al., 2005i:65126**
Li, Yong Hai *see* **Sun, Feng Zhi, 2005k:65221**
Liang, Dong *see* **Gao, Liping et al., 2005i:65141**
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Lin, Yan Ping *see* **Ewing, Richard E. et al., 2005k:76074**
Liu, Hong Xia[2] (*with* Pan, Tao[1]) L^1-convergence rate of viscosity methods for scalar conservation laws with the interaction of elementary waves and the boundary. (English summary) **2005h:35231**
Liu, Jian-Guo[1] *see* **Wang, Cheng**[4] **et al., 2005b:65097**
Liu, Wen Bin[1] (*with* Ma, He Ping; Tang, Tao; Yan, Ningning) A posteriori error estimates for discontinuous Galerkin time-stepping method for optimal control problems governed by parabolic equations. (English summary) **2005i:49035**
Lu, Shu Xia Predictor-corrector FDSD method for nonlinear convection-diffusion equation. (Chinese summary) **2005c:65077**
Luo, Zhen Dong (*with* Zhu, Jiang[3]; Zeng, Qing Cun; Xie, Zheng Hui) Mixed finite element methods for the shallow water equations including current and silt sedimentation. I. The continuous-time case. (Chinese. English and Chinese summaries) **2005a:76102**
— (*with* Zhu, Jiang[3]; Zeng, Qing Cun; Xie, Zheng Hui) Mixed finite element methods for the shallow water equations including current and silt sedimentation. II. The discrete-time case along characteristics. (Chinese. English and Chinese summaries) **2005a:76103**
— *see also* **Tian, Xiang Jun et al., 2005h:65172**
Ma, Chang Feng *see* **Kang, Tong et al., 2005h:65165**
Ma, He Ping *see* **Liu, Wen Bin**[1] **et al., 2005i:49035** *and* **Yuan, Qi**
Makarov, Vladimir L. (*with* Demkiv, L. I.) Accuracy estimates of difference schemes for quasi-linear parabolic equations taking into account the initial-boundary effect. (English summary) **2005k:65177**
Makridakis, Charalambos *see* **Akrivis, Georgios, 2005f:65124** *and* **Karakashian, Ohannes A., 2005g:65147**
Manickam, S. Arul Veda (*with* Moudgalya, Kannan M.; Pani, Amiya K.) Higher order fully discrete scheme combined with H^1-Galerkin mixed finite element method for semilinear reaction-diffusion equations. (English summary) **2005g:65149**
Miles, William W. *see* **Ervin, Vincent J., 2005j:76058**
Moudgalya, Kannan M. *see* **Manickam, S. Arul Veda et al., 2005g:65149**
Mueller, Jennifer L. (*with* Shores, T. S.) A new sinc-Galerkin method for convection-diffusion equations with mixed boundary conditions. (English summary) **2005b:65107**
Nashunbuhe (*with* Su, Zhi Xun; Zhang, Zhi Yue) Finite-element analysis of the Galerkin alternating-direction method for a schistosomiasis model. (Chinese. English and Chinese summaries) **2005e:65148**
Naulin, Volker (*with* Nielsen, Anders H.) Accuracy of spectral and finite difference schemes in 2D advection problems. (English summary) **2005a:76048**
Navon, Ionel Michael *see* **Alekseev, A. K., 2005m:65159**
Neilsen, David W. *see* **Lehner, Luis et al., 2005h:83004**
Nguyễn Minh Chu'o'ng (*with* Bui Kien Cuong) Convergence estimates of Galerkin-wavelet solutions to a Cauchy problem for a class of periodic pseudodifferential equations. (English summary) **2005h:65178**
Nielsen, Anders H. *see* **Naulin, Volker, 2005a:76048**
Nochetto, Ricardo H. A posteriori error control of free boundary problems. (English summary) **2005h:35375**
— (*with* Pyo, Jae-Hong) Error estimates for semi-discrete gauge methods for the Navier-Stokes equations. (English summary) **2005i:65132**
Nürnberg, Robert *see* **Barrett, John W.**[1] **et al., 2005a:65098**
Olisaev, È. G. (*with* Lafisheva, M. M.) On the convergence of a difference scheme for a parabolic-type equation with a nonlocal condition in cylindrical coordinates. (Russian. Russian summary) **2005e:65120**
Omrani, Khaled On the numerical approach of the enthalpy method for the Stefan problem. (English summary) **2005b:80012**
O'Riordan, Eugene *see* **Dunne, Raymond K. et al., 2005e:65118**
Otta, Ajaya K. *see* **Pani, Amiya K. et al., 2005c:65085**
Pan, Tao[1] *see* **Liu, Hong Xia**[2]**, 2005h:35231**
Pani, Amiya K. (*with* Sinha, Rajen K.; Otta, Ajaya K.) An H^1-Galerkin mixed method for second order hyperbolic equations. (English summary) **2005c:65085**
— *see also* **Manickam, S. Arul Veda et al., 2005g:65149**; **Doss, L. Jones, 2005k:65202** *and* **Danumjaya, P., 2005m:65231**
Picasso, Marco *see* **Burman, Erik et al., 2005k:65200**
Pop, Iuliu Sorin *see* **Radu, Adrian Florin et al., 2005m:65189**
Prohl, Andreas *see* **Feng, Xiaobing, 2005f:35136**
Pyo, Jae-Hong *see* **Nochetto, Ricardo H., 2005i:65132**
Radu, Adrian Florin (*with* Pop, Iuliu Sorin; Knabner, Peter) Order of convergence estimates for an Euler implicit, mixed finite element discretization of Richards' equation. (English summary) **2005m:65189**
— *see also* **Schneid, Eckhard et al., 2005g:65150**
Rappaz, Jacques *see* **Burman, Erik et al., 2005h:65161** *and* **2005k:65200**
Reula, Oscar A. *see* **Lehner, Luis et al., 2005h:83004**
Rohde, Christian *see* **Dedner, Andreas, 2005f:45016** *and* **Jovanović, Vladimir, 2005h:65134**
Rui, Hongxing A finite volume element method for thermal convection problems. (English summary) **2005b:65108**
Růžička, Michael Modeling, mathematical and numerical analysis of electrorheological fluids. (English summary) **2005i:35223**
Schneid, Eckhard (*with* Knabner, Peter; Radu, Adrian Florin) A priori error estimates for a mixed finite element discretization of the Richards' equation. (English summary) **2005g:65150**
Segeth, Karel *see* **Zítka, Martin et al., (2005j:65003)**
Sergienko, Ivan V. (*with* Deĭneka, V. S.) High-accuracy computational algorithms for investigating pseudo-parabolic distributed systems with conjugation conditions. (Russian. English summary) **2005e:65150**
Shang, Ya Dong (*with* Guo, Bo Ling) Legendre and Chebyshev pseudospectral methods for the generalized symmetric regularized long wave equations. (Chinese. English and Chinese summaries) **2005d:65173**
Shaw, Simon C. (*with* Whiteman, J. R.) A posteriori error estimates for space-time finite element approximation of quasistatic hereditary linear viscoelasticity problems. (English summary) **2005h:74061**
Shcheglik, V. S. *see* **Jovanović, Boško S., (2005c:65004)**
Shen, Jie[1] *see* **Guermond, Jean-Luc, 2005f:65113**
Shin, Jun Yong *see* **Ann, M. H., 2005d:65163**
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Simeoni, Chiara *see* **Katsaounis, Theodoros, 2005h:65136**
Sinha, Rajen K. *see* **Pani, Amiya K. et al., 2005c:65085**
Smagin, V. V. Strong-norm error estimates for the projective-difference method for parabolic equations with a modified Crank-Nicolson scheme. (Russian. Russian summary) **2005h:65171**
Sofonea, Mircea *see* **Fernández García, José Ramón, 2005e:74040**
Šolín, Pavel *see* **Zítka, Martin et al., (2005j:65003)**
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Styles, Vanessa *see* **Elliott, Charles M. et al., 2005m:65213**
Su, Zhi Xun *see* **Nashunbuhe et al., 2005e:65148**
Sun, Feng Zhi (*with* Li, Yong Hai) Finite volume element method based on circumcenter dual subdivisions. (Chinese. English and Chinese summaries) **2005k:65221**
Sun, Jun Hong Characteristic finite element methods with moving mesh for contamination by incompressible nuclear waste. (Chinese. English summary) **2005e:65137**
Sun, Wei-wei *see* **Zhu, Shaohong et al., 2005e:65126**
Tabata, Masahisa (*with* Tagami, Daisuke) Error estimates of finite element methods for nonstationary thermal convection problems with temperature-dependent coefficients. (English summary) **2005m:65225**
Tagami, Daisuke *see* **Tabata, Masahisa, 2005m:65225**
Tang, Tao *see* **Liu, Wen Bin**[1] **et al., 2005i:49035**
Thomée, Vidar (*with* Wahlbin, L. B.) Maximum-norm estimates for finite-element methods for a strongly damped wave equation. (English summary) **2005g:65151**
— *see also* **Chatzipantelidis, P. et al., 2005g:65122**
Tian, Xiang Jun (*with* Xie, Zheng Hui; Luo, Zhen Dong; Zhu, Jiang[3]) Nonlinear Galerkin mixed element methods for nonstationary conduction-convection problems. III. Second-order-accuracy time fully discrete format. (Chinese. English summary) **2005h:65172**
Tiglio, Manuel *see* **Lehner, Luis et al., 2005h:83004**
Tsai, Chiung-Chiou (*with* Yang, Suh-Yuh) Error analysis of the L^2 least-squares finite element method for incompressible inviscid rotational flows. (English summary) **2005g:76079**
Van, Tri (*with* Wood, Aihua W.) A time-domain finite element method for Maxwell's equations. (English summary) **2005h:65173**
Verfürth, Rüdiger A posteriori error estimates for finite element discretizations of the heat equation. (English summary) **2005f:65131**
Vovelle, Julien *see* **Droniou, Jérôme et al., 2005h:35228**
Vuković, Senka (*with* Črnjarić-Žic, Nelida; Sopta, Luka) Order of accuracy of extended WENO schemes. (English summary) **2005k:65184**
Wahlbin, L. B. *see* **Thomée, Vidar, 2005g:65151**
Wang, Cheng[4] (*with* Liu, Jian-Guo[1]; Johnston, Hans) Analysis of a fourth order finite difference method for the incompressible Boussinesq equations. (English summary) **2005b:65097**
Wang, Jun Ping[1] *see* **Ewing, Richard E. et al., 2005k:76074**
Wei, Guo Wei *see* **Zhao, Shan, 2005c:78039**
Whiteman, J. R. *see* **Shaw, Simon C., 2005h:74061**
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Xiong, Xiang-Tuan (*with* Fu, Chu-Li; Li, Hong-Fang) Central difference schemes in time and error estimate on a non-standard inverse heat conduction problem. (English summary) **2005i:65126**
Yan, Ningning *see* **Liu, Wen Bin**[1] **et al., 2005i:49035**
Yang, Suh-Yuh *see* **Tsai, Chiung-Chiou, 2005g:76079**
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Yu, De Hao *see* **Kang, Tong et al., 2005j:65112**
Yuan, Guangwei *see* **Zhu, Shaohong et al., 2005e:65126**
Yuan, Qi (*with* Ma, He Ping) Error estimation of Legendre-Petrov-Galerkin Chebyshev collocation method for solving generalized Korteweg-de Vries equation. (Chinese. English and Chinese summaries)
Zeng, Qing Cun *see* **Luo, Zhen Dong et al., 2005a:76102** *and* **2005a:76103**
Zeng, Wen Ping Three-layer absolutely stable difference schemes with two parameters for solving a higher-order Schrödinger type equation. (Chinese. English and Chinese summaries) **2005e:65125**
Zhang, Bo[1] *see* **Gao, Liping et al., 2005i:65141**
Zhang, Qiang[3] Splitting scheme of finite-difference streamline diffusion method for linear convection-diffusion equation. (English summary) **2005e:65152**
Zhang, Shu Hua[3] *see* **Ewing, Richard E. et al., 2005k:76074**
Zhang, Zhi Yue *see* **Nashunbuhe et al., 2005e:65148**
Zhao, Jun[4] Analysis of finite element approximation for time-dependent Maxwell problems. (English summary) **2005b:65112**
Zhao, Pei Xin (*with* Chen, Huan Zhen) A characteristic-mixed finite element method for a Sobolev equation. (Chinese. English and Chinese summaries) **2005d:65171**
Zhao, Shan (*with* Wei, Guo Wei) High-order FDTD methods via derivative matching for Maxwell's equations with material interfaces. (English summary) **2005c:78039**
Zhu, Jiang[3] *see* **Luo, Zhen Dong et al., 2005a:76102**; **2005a:76103** *and* **Tian, Xiang Jun et al., 2005h:65172**
Zhu, Shaohong (*with* Yuan, Guangwei; Sun, Wei-wei) Convergence and stability of

explicit/implicit schemes for parabolic equations with discontinuous coefficients. (English summary) **2005e:65126**

Zítka, Martin (*with* Segeth, Karel; Šolín, Pavel) Higher-order FEM for a system of nonlinear parabolic PDE's in 2D with a-posteriori error estimates. (English summary) (*see* **2005j:65003**)

Zubik-Kowal, Barbara Error bounds for spatial discretization and waveform relaxation applied to parabolic functional differential equations. (English summary) **2005b:35136**

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Alonso-Mallo, Isaías (*with* Cano, B.) Avoiding order reduction of Runge-Kutta discretizations for linear time-dependent parabolic problems. (English summary) **2005e:65133**

— (*with* Cano, B.; Jorge, J. C.) Spectral-fractional step Runge-Kutta discretizations for initial boundary value problems with time dependent boundary conditions. (English summary) **2005e:65134**

Anh, V. V. *see* **Liu, Fa Wang et al., 2005b:65102**

Bao, Weizhu (*with* Sun, Fangfang) Efficient and stable numerical methods for the generalized and vector Zakharov system. (English summary) **2005m:65192**

Bazán, Fermín S. V. (*with* Cunha, M. C.) Solving damped wave equations with the method of lines and quadratic matrix eigenvalues. (English summary) **2005m:65193**

Bergamaschi, Luca *see* **Caliari, Marco et al., 2005k:65190**

Bujanda, B. *see* **Portero, L. et al., 2005d:65153**

Caliari, Marco (*with* Vianello, Marco; Bergamaschi, Luca) Interpolating discrete advection-diffusion propagators at Leja sequences. (English summary) **2005k:65190**

Cano, B. *see* **Alonso-Mallo, Isaías et al., 2005e:65133** *and* **2005e:65134**

Chaplain, Mark A. J. *see* **Valenciano, J., 2005e:65135**

Cunha, M. C. *see* **Bazán, Fermín S. V., 2005m:65193**

Czernous, Wojciech Numerical method of lines for first order partial differential equations with deviated variables. (English summary) **2005k:65191**

Dehghan, Mehdi Numerical solution of a parabolic equation subject to specification of energy. (English summary) **2005a:65093**

Dimova, Stefka *see* **Slavov, Vladimir**, (**2005f:00011**)

Feistauer, Miloslav (*with* Švadlenka, K.) Discontinuous Galerkin method of lines for solving nonstationary singularly perturbed linear problems. (English summary) **2005h:65150**

Flaherty, Joseph E. *see* **Sapariuc, I. et al., 2005g:65132**

Griffiths, G. W. (*with* Saucez, Ph.; Vande Wouwer, Alain; Schiesser, W. E.) Can a nonlinearity be neglected? An example. (English summary) **2005m:65194**

Hochbruck, Marlis (*with* Ostermann, Alexander) Exponential Runge-Kutta methods for parabolic problems. (English summary) **2005m:65195**

Hundsdorfer, Willem *see* **Verwer, Jan G. et al., 2005h:65151**

Jorge, J. C. *see* **Portero, L. et al., 2005d:65153** *and* **Alonso-Mallo, Isaías et al., 2005e:65134**

Koch, Othmar Numerical solution of the time-dependent Schrödinger equation in ultrafast laser dynamics. (English summary)

Liu, Fa Wang (*with* Anh, V. V.; Turner, Ian W.) Numerical solution of the space fractional Fokker-Planck equation. (English summary) **2005b:65102**

Ma, Zhong Qi *see* **Sun, Jian Qiang et al., 2005g:65133**

Marcozzi, M. D. *see* **Sapariuc, I. et al., 2005g:65132**

Nemirovskiĭ, Yu. V. (*with* Yankovskiĭ, A. P.) Numerical integration of initial-boundary value problems with large solution gradients by generalized Runge-Kutta methods. (Russian. English, Russian and Ukrainian summaries) **2005m:65196**

Oliver, Marcel (*with* West, Matthew; Wulff, Claudia) Approximate momentum conservation for spatial semidiscretizations of semilinear wave equations. (English summary) **2005d:65152**

Ostermann, Alexander *see* **Hochbruck, Marlis, 2005m:65195**

Podhaisky, H. *see* **Weiner, Rüdiger et al., 2005b:65103**

Portero, L. (*with* Jorge, J. C.; Bujanda, B.) Avoiding order reduction of fractional step Runge-Kutta discretizations for linear time dependent coefficient parabolic problems. (English summary) **2005d:65153**

Qin, Meng Zhao *see* **Sun, Jian Qiang et al., 2005g:65133**

Rasmussen, Jan Marthedal A study of numerical methods for boundary control of the wave equation in 1D. (*see* **2005b:00020**)

Rossokhataya, N. A. A method for discretization in time based on Cayley transform for parabolic transmission problem. (English summary) (*see* **2005g:65008**)

Sapariuc, I. (*with* Marcozzi, M. D.; Flaherty, Joseph E.) A numerical analysis of variational valuation techniques for derivative securities. (English summary) **2005g:65132**

Saucez, Ph. (*with* Vande Wouwer, Alain; Schiesser, W. E.; Zegeling, P. A.) Method of lines study of nonlinear dispersive waves. (English summary)

— *see also* **Griffiths, G. W. et al., 2005m:65194**

Schiesser, W. E. *see* **Griffiths, G. W. et al., 2005m:65194** *and* **Saucez, Ph. et al.**

Schmitt, Bernhard A. *see* **Weiner, Rüdiger et al., 2005b:65103**

Slavov, Vladimir (*with* Dimova, Stefka) Phase-field modeling of dendritic interaction in 2D. (English and Bulgarian summaries) (*see* **2005f:00011**)

Sommeijer, Ben P. *see* **Verwer, Jan G. et al., 2005e:65136** *and* **2005h:65151**

Sun, Fangfang *see* **Bao, Weizhu, 2005m:65192**

Sun, Jian Qiang (*with* Ma, Zhong Qi; Qin, Meng Zhao) RKMK method of solving non-damping LL equations and ferromagnet chain equations. (English summary) **2005g:65133**

Švadlenka, K. *see* **Feistauer, Miloslav, 2005h:65150**

Turner, Ian W. *see* **Liu, Fa Wang et al., 2005b:65102**

Valenciano, J. (*with* Chaplain, Mark A. J.) An explicit subparametric spectral element method of lines applied to a tumour angiogenesis system of partial differential equations. (English summary) **2005e:65135**

Vande Wouwer, Alain *see* **Griffiths, G. W. et al., 2005m:65194** *and* **Saucez, Ph. et al.**

Vejchodský, Tomáš On the nonnegativity conservation in semidiscrete parabolic problems. **2005i:65135**

Verwer, Jan G. (*with* Sommeijer, Ben P.; Hundsdorfer, Willem) RKC time-stepping for advection-diffusion-reaction problems. (English summary) **2005h:65151**

— (*with* Sommeijer, Ben P.) An implicit-explicit Runge-Kutta-Chebyshev scheme for diffusion-reaction equations. (English summary) **2005e:65136**

Vianello, Marco *see* **Caliari, Marco et al., 2005k:65190**

Weiner, Rüdiger (*with* Schmitt, Bernhard A.; Podhaisky, H.) Parallel 'Peer' two-step W-methods and their application to MOL-systems. (English summary) **2005b:65103**

West, Matthew *see* **Oliver, Marcel et al., 2005d:65152**

Wulff, Claudia *see* **Oliver, Marcel et al., 2005d:65152**

Yankovskiĭ, A. P. *see* **Nemirovskiĭ, Yu. V., 2005m:65196**

Zegeling, P. A. *see* **Saucez, Ph. et al.**

Items with secondary classifications in 65M20

Alonso-Mallo, Isaías (*with* Cano, B.; Moreta, M. J.) Order reduction and how to avoid it when explicit Runge-Kutta-Nyström methods are used to solve linear partial differential equations. (English summary) **2005j:65070**

Angelov, Rumen Angelov (*with* Kama, P.; Lubuma, J. M.-S.) On non-standard finite difference models of reaction-diffusion equations. (English summary) **2005k:65163**

Arregui, Iñigo (*with* Cendán, J. Jesús; Vázquez Cendón, C.) A duality method for the compressible Reynolds equation. Application to simulation of read/write processes in magnetic storage devices. (English summary)

Beylkin, Gregory (*with* Sandberg, K.) Wave propagation using bases for bandlimited functions. (English summary) **2005i:76097**

Bujanda, B. (*with* Jorge, J. C.) Efficient linearly implicit methods for nonlinear multidimensional parabolic problems. (English summary) **2005e:65115**

Calvo Pinilla, M. Backward error analysis of numerical methods for ODEs and Lie-Hori perturbation theory. (English summary) **2005k:65116**

Cano, B. *see* **Alonso-Mallo, Isaías et al., 2005j:65070**

Cendán, J. Jesús *see* **Arregui, Iñigo et al.**

Chudej, Kurt (*with* Heidebrecht, Peter; Petzet, Verena; Scherdel, Sabine; Schittkowski, Klaus; Pesch, Hans Josef; Sundmacher, Kai) Index analysis and numerical solution of a large scale nonlinear PDAE system describing the dynamical behaviour of molten carbonate fuel cells. (English summary)

El Hachimi, Abderrahmane (*with* Sidi Ammi, Moulay Rachid) Thermistor problem: a nonlocal parabolic problem. (English summary) (*see* **2005i:35003**)

Ferracina, L. (*with* Spijker, M. N.) Stepsize restrictions for the total-variation-diminishing property in general Runge-Kutta methods. (English summary) **2005k:65126**

— (*with* Spijker, M. N.) Stepsize restrictions for total-variation-boundedness in general Runge-Kutta procedures. (English summary) **2005k:65127**

— (*with* Spijker, M. N.) An extension and analysis of the Shu-Osher representation of Runge-Kutta methods. (English summary) **2005g:65110**

Fu, Chu-Li *see* **Xiong, Xiang-Tuan et al., 2005i:65126**

Gustafsson, Bertil (*with* Kress, Wendy) Deferred correction methods for initial value problems. (English summary) **2005c:65053**

He, Hao *see* **Voss, D. A. et al.**, (**2005i:00014**)

Heidebrecht, Peter *see* **Chudej, Kurt et al.**

Huang, Cheng Ming² (*with* Vandewalle, Stefan) An analysis of delay-dependent stability for ordinary and partial differential equations with fixed and distributed delays. (English summary) **2005e:65106**

Huisman, Jef *see* **Pham Thi, N. N. et al.**

Jorge, J. C. *see* **Bujanda, B., 2005e:65115**

Kalis, Harijs Finite-difference method for numerical study of nonlinear heating process in plate. (English summary) (*see* **2005c:65004**)

Kama, P. *see* **Angelov, Rumen Angelov et al., 2005k:65163**

Kazmi, S. H. K. *see* **Voss, D. A. et al.**, (**2005i:00014**)

Khaliq, A. Q. M. *see* **Voss, D. A. et al.**, (**2005i:00014**)

Kress, Wendy *see* **Gustafsson, Bertil, 2005c:65053**

Lebedev, V. I. Extremal polynomials, pseudo-difference operators, and stable explicit schemes for the solution of stiff nonstationary problems of mathematical physics. (*see* **2005i:65006**)

Li, Hong-Fang *see* **Xiong, Xiang-Tuan et al., 2005i:65126**

Lubuma, J. M.-S. *see* **Angelov, Rumen Angelov et al., 2005k:65163**

Lucht, W. Partial differential-algebraic systems of second order with symmetric convection. (English summary) **2005j:35021**

Moreta, M. J. *see* **Alonso-Mallo, Isaías et al., 2005j:65070**

Pareschi, Lorenzo (*with* Russo, Giovanni) Implicit-explicit Runge-Kutta schemes for stiff systems of differential equations. (English summary) **2005a:65065**

Pesch, Hans Josef *see* **Chudej, Kurt et al.**

Petzet, Verena *see* **Chudej, Kurt et al.**

Pham Thi, N. N. (*with* Huisman, Jef; Sommeijer, Ben P.) Simulation of three-dimensional phytoplankton dynamics: competition in light-limited environments. (English summary)

— On positive solutions in a phytoplankton-nutrient model. (English summary) **2005i:92036**

Russo, Giovanni *see* **Pareschi, Lorenzo, 2005a:65065**

Ruuth, Steven J. (*with* Spiteri, Raymond J.) High-order strong-stability-preserving Runge-Kutta methods with downwind-biased spatial discretizations. (English summary) **2005m:65142**

Sandberg, K. *see* **Beylkin, Gregory, 2005i:76097**

Scherdel, Sabine *see* **Chudej, Kurt et al.**

Schittkowski, Klaus Data fitting in partial differential algebraic equations: some academic and industrial applications. (English summary) **2005c:65083**

— *see also* **Chudej, Kurt et al.**

Shu, Chi-Wang A survey of strong stability preserving high order time discretizations. (*see* **2005h:65004**)

— *see also* **Xu, Yan⁵, 2005h:65175**

Sidi Ammi, Moulay Rachid *see* **El Hachimi, Abderrahmane**, (**2005i:35003**)

Sommeijer, Ben P. *see* **Pham Thi, N. N. et al.**

Spijker, M. N. *see* **Ferracina, L., 2005g:65110; 2005k:65126** *and* **2005k:65127**

Spiteri, Raymond J. *see* **Ruuth, Steven J., 2005m:65142**

Sundmacher, Kai *see* **Chudej, Kurt et al.**

Vandewalle, Stefan *see* **Huang, Cheng Ming², 2005e:65106**

Vázquez Cendón, C. *see* **Arregui, Iñigo et al.**

Voss, D. A. (*with* Khaliq, A. Q. M.; Kazmi, S. H. K.; He, Hao) A fourth order L-stable method for the Black-Scholes model with barrier options. (English summary) (*see*

2005i:00014)

Xiong, Xiang-Tuan (*with* Fu, Chu-Li; Li, Hong-Fang) Central difference schemes in time and error estimate on a non-standard inverse heat conduction problem. (English summary) **2005i:65126**

Xu, Yan[5] (*with* Shu, Chi-Wang) Local discontinuous Galerkin methods for three classes of nonlinear wave equations. (English summary) **2005h:65175**

65M25 Method of characteristics

Angulo, Oscar (*with* López-Marcos, Juan Carlos) Numerical integration of fully nonlinear size-structured population models. (English summary) **2005h:65152**

Bañas, Ľubomír Solution of convection-diffusion equation by the method of characteristics. (English summary) **2005g:65134**

Chen, Huan Zhen (*with* Jiang, Ziwen) A characteristics-mixed finite element method for Burgers' equation. (English summary) **2005d:65154**

Du, Ning Alternating-direction characteristics finite element method for a kind of convection-dominated nonlinear parabolic systems. (English and Chinese summaries) **2005j:65096**

Ferrari, Stefania Convergence analysis of a space-time approximation to a two-dimensional system of shallow water equations. (English summary) **2005f:65115**

Guo, Ling (*with* Wang, Xiao Li[1]) A characteristic mixed finite element method and numerical simulation for Burgers' equation. (Chinese. English and Chinese summaries) **2005j:65097**

Jiang, Ziwen *see* **Chen, Huan Zhen, 2005d:65154**

Khachatryan, Suren Modification of the method of integration along characteristics as adaptive mesh approach in solution of hyperbolic and parabolic PDEs. (English summary)

Liu, Ru Xun (*with* Liu, Xiao Ping; Zhang, Lei; Wang, Zhi Feng[1]) Tracking and reconstruction methods for moving-interfaces. (Chinese. English and Chinese summaries) **2005d:65155**

Liu, Xiao Ping *see* **Liu, Ru Xun et al., 2005d:65155**

López-Marcos, Juan Carlos *see* **Angulo, Oscar, 2005h:65152**

Ma, Ming Shu *see* **Wang, Tong Ke, 2005j:65098**

Ma, Yi Chen *see* **Qin, Xin-qiang, 2005m:65197**

Machmoum, Ahmed (*with* Seaïd, Mohammed) A highly accurate modified method of characteristics for convection-dominated flow problems. (English summary) **2005f:65116**

Nifanova, A. V. *see* **Troshchiev, V. E. et al., 2005e:65138**

Ozizmir, Ercument *see* **Wollman, Stephen, (2005m:00008)**

Qin, Xin-qiang (*with* Ma, Yi Chen) Two-grid scheme for characteristics finite-element solution of nonlinear convection diffusion problems. (English summary) **2005m:65197**

Seaïd, Mohammed *see* **Machmoum, Ahmed, 2005f:65116**

Sun, Jun Hong Characteristic finite element methods with moving mesh for contamination by incompressible nuclear waste. (Chinese. English summary) **2005e:65137**

Troshchiev, V. E. (*with* Nifanova, A. V.; Troshchiev, Yu. V.) A characteristic approach to the approximation of conservation laws in kinetic radiative transfer equations. (Russian) **2005e:65138**

Troshchiev, Yu. V. *see* **Troshchiev, V. E. et al., 2005e:65138**

Wang, Tong Ke (*with* Ma, Ming Shu) A family of second-order characteristic difference schemes for two-dimensional convection-diffusion equations. (Chinese. English and Chinese summaries) **2005j:65098**

Wang, Xiao Li[1] *see* **Guo, Ling, 2005j:65097**

Wang, Zhi Feng[1] *see* **Liu, Ru Xun et al., 2005d:65155**

Wollman, Stephen (*with* Ozizmir, Ercument) A numerical method for the Vlasov-Poisson-Fokker-Planck system in one dimension. (*see* **2005m:00008**)

Yang, Min[3] (*with* Yuan, Yi Rang) A multistep finite volume element scheme along characteristics for nonlinear convection diffusion problems. (Chinese. English and Chinese summaries) **2005m:65198**

You, Tong Shun Three-step UNO-MMOCAA difference method for convection diffusion equation. (English summary) **2005f:65117**

Yuan, Yi Rang *see* **Yang, Min**[3], **2005m:65198**

Zhang, Lei *see* **Liu, Ru Xun et al., 2005d:65155**

Items with secondary classifications in 65M25

Angulo, Oscar (*with* López-Marcos, Juan Carlos) A numerical scheme for a size-structured cell population model. (English summary) (*see* **2005d:92001**)

Bermúdez, Ana (*with* Nogueiras, María R.) Numerical solution of two-factor models for valuation of financial derivatives. (English summary) **2005c:65084**

Chen, Huan Zhen *see* **Zhao, Pei Xin, 2005d:65171**

Chen, Zhi Ming[1] (*with* Ji, Guanghua) Adaptive computation for convection dominated diffusion problems. (English summary) **2005f:65120**

Farto, José Vaquero (*with* Vázquez Cendón, C.) Numerical techniques for pricing callable bonds with notice. (English summary) **2005j:65109**

Iske, Armin (*with* Käser, Martin) Two-phase flow simulation by AMMoC, an adaptive meshfree method of characteristics. (English summary)

Ji, Guanghua *see* **Chen, Zhi Ming**[1], **2005f:65120**

Käser, Martin *see* **Iske, Armin**

Leung, Shingyu (*with* Qian, Jianliang; Osher, Stanley) A level set method for three-dimensional paraxial geometrical optics with multiple point sources. (English summary) **2005h:76074**

López-Marcos, Juan Carlos *see* **Angulo, Oscar, (2005d:92001)**

Lukáčová-Medviďová, M. (*with* Warnecke, Gerald G.; Zahaykah, Yousef) On the boundary conditions for EG methods applied to the two-dimensional wave equation system. (English summary) **2005f:65129**

Luo, Zhen Dong (*with* Zhu, Jiang[3]; Zeng, Qing Cun; Xie, Zheng Hui) Mixed finite element methods for the shallow water equations including current and silt sedimentation. II. The discrete-time case along characteristics. (Chinese. English and Chinese summaries) **2005a:76103**

Melikyan, A. A. Propagation of weak discontinuities of the solutions to the multiple integral variational problem. (English summary) **2005a:49036**

Nogueiras, María R. *see* **Bermúdez, Ana, 2005c:65084**

Osher, Stanley *see* **Leung, Shingyu et al., 2005h:76074**

Qian, Jianliang *see* **Leung, Shingyu et al., 2005h:76074**

Sun, Hong (*with* Wang, Tong Ke) Characteristic difference method based on cubic natural spline interpolation for convection-diffusion equations. (English summary)

Vázquez Cendón, C. *see* **Farto, José Vaquero, 2005j:65109**

Wang, Tong Ke *see* **Sun, Hong**

Warnecke, Gerald G. *see* **Lukáčová-Medviďová, M. et al., 2005f:65129**

Xie, Zheng Hui *see* **Luo, Zhen Dong et al., 2005a:76103**

You, Tong Shun The ENO-MMOCAA finite difference method for a convection-diffusion equation. (Chinese. English and Chinese summaries) **2005i:65128**

Yuan, Yi Rang Galerkin alternating-direction methods for nonrectangular regions for the transient behavior of a semiconductor device. (English summary) **2005m:65229**

Zahaykah, Yousef *see* **Lukáčová-Medviďová, M. et al., 2005f:65129**

Zeng, Qing Cun *see* **Luo, Zhen Dong et al., 2005a:76103**

Zhao, Pei Xin (*with* Chen, Huan Zhen) A characteristic-mixed finite element method for a Sobolev equation. (Chinese. English and Chinese summaries) **2005d:65171**

Zhu, Jiang[3] *see* **Luo, Zhen Dong et al., 2005a:76103**

65M30 Improperly posed problems

Bagtzoglou, Amvrossios C. (*with* Baun, Sandrine A.) Near real-time atmospheric contamination source identification by an optimization-based inverse method. (English summary)

Baun, Sandrine A. *see* **Bagtzoglou, Amvrossios C.**

Berntsson, Fredrik Sequential solution of the sideways heat equation by windowing of the data. (English summary) **2005d:65156**

Böckmann, Christine (*with* Mironova, Irina; Müller, Detlef; Schneidenbach, Lars; Nessler, Remo) Microphysical aerosol parameters from multiwavelength lidar. (English summary)

Fredman, Tom P. A boundary movement identification method for a parabolic partial differential equation. (English summary) (*see* **2005j:65003**)

Fu, Chu-Li (*with* Qiu, Chun-Yu; Zhu, You-Bin) Wavelet methods for the sideways heat equation. (English summary) **2005h:65153**

— Simplified Tikhonov and Fourier regularization methods on a general sideways parabolic equation. (English summary) **2005f:65118**

— (*with* Xiong, Xiang-Tuan; Li, Hong-Fang; Zhu, You-Bin) Wavelet and spectral regularization methods for a sideways parabolic equation. (English summary) **2005k:65192**

Li, Hong-Fang *see* **Fu, Chu-Li et al., 2005k:65192**

Mera, N. S. The method of fundamental solutions for the backward heat conduction problem. (English summary)

Mironova, Irina *see* **Böckmann, Christine et al.**

Müller, Detlef *see* **Böckmann, Christine et al.**

Nessler, Remo *see* **Böckmann, Christine et al.**

Qiu, Chun-Yu *see* **Fu, Chu-Li et al., 2005h:65153**

Regińska, Teresa Application of wavelet shrinkage to solving the sideways heat equation. (English summary) **2005c:65080**

Schneidenbach, Lars *see* **Böckmann, Christine et al.**

Xiong, Xiang-Tuan *see* **Fu, Chu-Li et al., 2005k:65192**

Zhu, You-Bin *see* **Fu, Chu-Li et al., 2005h:65153** *and* **2005k:65192**

Items with secondary classifications in 65M30

Belahmidi, Abdelmounim (*with* Chambolle, Antonin) Time-delay regularization of anisotropic diffusion and image processing. (English summary) **2005m:68220**

Chambolle, Antonin *see* **Belahmidi, Abdelmounim, 2005m:68220**

Chapko, Roman (*with* Kügler, Philipp) A comparison of the Landweber method and the Gauss-Newton method for an inverse parabolic boundary value problem. (English summary) **2005k:65194**

Hein, Torsten (*with* Hofmann, Bernd) On the nature of ill-posedness of an inverse problem arising in option pricing. (English summary) **2005e:91079**

Hofmann, Bernd *see* **Hein, Torsten, 2005e:91079**

Klibanov, Michael V. (*with* Timonov, A. A.) On the mathematical treatment of time reversal. (English summary) **2005c:35294**

Kügler, Philipp *see* **Chapko, Roman, 2005k:65194**

Li, Hong[7] (*with* Wei, Xiaoxi) Discontinuous Galerkin finite element method for a forward-backward heat equation. (English summary) **2005m:65218**

Timonov, A. A. *see* **Klibanov, Michael V., 2005c:35294**

Wei, Xiaoxi *see* **Li, Hong**[7], **2005m:65218**

65M32 Inverse problems

Agoshkov, V. I. (*with* Minuk, F. P.; Rusakov, A. S.; Zalesnyĭ, V. B.) Study and solution of identification problems for nonstationary 2D and 3D convection-diffusion equations. (English summary) **2005m:65199**

Alhama, F. *see* **Zueco, J. et al.**

Allegretto, Walter *see* **Azari, Hossein et al., 2005c:65081**

Azari, Hossein (*with* Allegretto, Walter; Lin, Yan Ping; Zhang, Shu Hua[3]) Numerical procedures for recovering a time dependent coefficient in a parabolic differential equation. (English summary) **2005c:65081**

Baran, Emine Can Numerical procedures for the determination of an unknown source parameter in a parabolic equation. (English summary) **2005k:65193**

— Numerical procedures for determining of an unknown parameter in parabolic equation. (English summary)

Barnett, Alex H. A fast numerical method for time-resolved photon diffusion in general stratified turbid media. (English summary)

Berres, Stefan (*with* Bürger, Raimund; Coronel, A.; Sepúlveda, Mauricio) Numerical identification of parameters for a strongly degenerate convection-diffusion problem modelling centrifugation of flocculated suspensions. (English summary) **2005j:65099**

Berry, John T. *see* **Xue, Xingjian et al.**

Bourray, H. *see* **Zerrik, E. et al., 2005a:65095**

Bürger, Raimund *see* **Berres, Stefan et al., 2005j:65099**

Candau, Y. Solving inverse heat conduction problem with discrete wavelet transform. (English summary)
Chapko, Roman (*with* Kügler, Philipp) A comparison of the Landweber method and the Gauss-Newton method for an inverse parabolic boundary value problem. (English summary) **2005k:65194**
Coles, C. Parameter identification using mollification for predator-prey models in spatially heterogeneous environments. (English summary) **2005h:65154**
Coronel, A. *see* **Berres, Stefan et al., 2005j:65099**
Dehghan, Mehdi Identification of a time-dependent coefficient in a partial differential equation subject to an extra measurement. (English summary) **2005m:65200**
El Jaï, Abdelhak *see* **Zerrik, E. et al., 2005a:65095**
Fatullayev, Afet Golayoglu Numerical solution of the inverse problem of determining an unknown source term in a two-dimensional heat equation. (English summary) **2005c:65082**
— Numerical procedure for the simultaneous determination of unknown coefficients in a parabolic equation. (English summary)
— Numerical procedure for the simultaneous determination of unknown coefficients in a parabolic equation. (English summary)
Fourestey, Gilles (*with* Moubachir, Marwan) Solving inverse problems involving the Navier-Stokes equations discretized by a Lagrange-Galerkin method. (English summary) **2005g:65135**
Fredman, Tom P. Identification of boundary movement from internal measurements. (English summary) (*see* **2005b:65003**)
Gilbert, Robert P. *see* **Lin, Zhongyan, 2005f:65119**
González Fernández, C. F. *see* **Zueco, J. et al.**
Grishchuk, N. V. *see* **Podlipenko, Yu. K., 2005d:65157**
Hanada, Takao (*with* Imai, Hitoshi; Ishimura, Naoyuki; Nakamura, Masaaki) Eguchi-Oki-Matsumura equation for phase separation: numerically guided approach. (English summary) (*see* **2005d:35008**)
Hon, Yiu-Chung (*with* Wei, Ting) The method of fundamental solution for solving multidimensional inverse heat conduction problems. (English summary)
Imai, Hitoshi *see* **Hanada, Takao et al., (2005d:35008)**
Ishimura, Naoyuki *see* **Hanada, Takao et al., (2005d:35008)**
Jia, Chunxia *see* **Tan, Yong Ji, (2005d:35008)**
Kabanikhin, S. I. (*with* Satybaev, A. D.; Shishlenin, M. A.) ★ Direct methods of solving multidimensional inverse hyperbolic problems. **2005m:65201**
Klibanov, Michael V. (*with* Timonov, A. A.) A unified framework for constructing globally convergent algorithms for multidimensional coefficient inverse problems. (English summary) **2005h:65155**
Kügler, Philipp *see* **Chapko, Roman, 2005k:65194**
Lin, Yan Ping *see* **Azari, Hossein et al., 2005c:65081**
Lin, Zhongyan (*with* Gilbert, Robert P.) Numerical algorithm based on transmutation for solving inverse wave equation. (English summary) **2005f:65119**
Luck, Rogelio *see* **Xue, Xingjian et al.**
Minuk, F. P. *see* **Agoshkov, V. I. et al., 2005m:65199**
Moubachir, Marwan *see* **Fourestey, Gilles, 2005g:65135**
Murio, D. A. *see* **Yi, Z., 2005k:65195**
Nakamura, Masaaki *see* **Hanada, Takao et al., (2005d:35008)**
Natterer, Frank Numerical solution of inverse evolution problems via the nonlinear Levitan equation. **2005a:65094**
Niu, Bao Guo *see* **Tan, Yong Ji et al., 2005j:65100**
Podlipenko, Yu. K. (*with* Grishchuk, N. V.) Optimal prediction of solutions of parabolic equations from observations on a system of surfaces. (Russian. English summary) **2005d:65157**
Rusakov, A. S. *see* **Agoshkov, V. I. et al., 2005m:65199**
Satybaev, A. D. *see* **Kabanikhin, S. I. et al., 2005m:65201**
Schittkowski, Klaus Data fitting in partial differential algebraic equations: some academic and industrial applications. (English summary) **2005c:65083**
Sepúlveda, Mauricio *see* **Berres, Stefan et al., 2005j:65099**
Shcheglov, Alekseĭ Yur'evich (*with* Viktorova, I. V.) Numerical reconstitution of a nonlinear source in a hyperbolic equation. (English summary) **2005b:65104**
— An approximate solution of the inverse coefficient problem for a quasilinear equation of hyperbolic type. (Russian. Russian summary) **2005h:65156**
Shishlenin, M. A. *see* **Kabanikhin, S. I. et al., 2005m:65201**
Tan, Yong Ji (*with* Jia, Chunxia) Inverse problem of reconstructing the parabolic equation's initial value and the heat radiative coefficient. (English summary) (*see* **2005d:35008**)
— (*with* Wang, Xiao He; Niu, Bao Guo) Solving the inverse problem of determining the boundary of a parabolic equation by radial basis method. (Chinese. English and Chinese summaries) **2005j:65100**
Timonov, A. A. *see* **Klibanov, Michael V., 2005h:65155**
Viktorova, I. V. *see* **Shcheglov, Alekseĭ Yur'evich, 2005b:65104**
Wang, Xiao He *see* **Tan, Yong Ji et al., 2005j:65100**
Wei, Ting *see* **Hon, Yiu-Chung**
Xue, Xingjian (*with* Luck, Rogelio; Berry, John T.) Comparisons and improvements concerning the accuracy and robustness of inverse heat conduction algorithms. (English summary)
Yi, Z. (*with* Murio, D. A.) Identification of source terms in 2-D IHCP. (English summary) **2005k:65195**
Zalesnyĭ, V. B. *see* **Agoshkov, V. I. et al., 2005m:65199**
Zerrik, E. (*with* Bourray, H.; El Jaï, Abdelhak) Regional flux reconstruction for parabolic systems. (English summary) **2005a:65095**
Zhang, Shu Hua[3] *see* **Azari, Hossein et al., 2005c:65081**
Zueco, J. (*with* Alhama, F.; González Fernández, C. F.) Inverse problem of estimating time-dependent heat transfer coefficient with the network simulation method. (English summary)

Items with secondary classifications in 65M32

Alifanov, O. M. (*with* Nenarokomov, A. V.; Budnik, S. A.; Michailov, V. V.; Ydin, V. M.) Identification of thermal properties of materials with applications for spacecraft structures. (English summary) **2005f:35125**
Alvarez Acevedo, Nancy I. (*with* Roberty, Nilson C.; Silva Neto, Antônio J.) A one-dimensional inverse radiative transfer problem with time-varying boundary conditions. (English summary) **2005b:35286**
Avdeev, A. V. (*with* Goriounov, E. V.; Lavrent'ev, M. M., Jr.; Spigler, Renato) Validating the diffusion model for long-term coastal profile evolution. (English summary) **2005g:86020**
Ayapbergenova, A. T. *see* **Kabanikhin, S. I., 2005f:35321**
Azari, Hossein (*with* Li, Changjun[1]; Nie, Yi Yong; Zhang, Shu Hua[3]) Determination of an unknown coefficient in a parabolic inverse problem. (English summary) **2005e:35239**
Becker, Roland (*with* Braack, Malte; Vexler, Boris) Numerical parameter estimation for chemical models in multidimensional reactive flows. (English summary) **2005g:80012**
Belleni-Morante, A. (*with* Monaco, Roberto; Riganti, R.; Salvarani, F.) A numerical approach for inverse problems in photon transport inside an interstellar cloud. (English summary) **2005c:85003**
Braack, Malte *see* **Becker, Roland et al., 2005g:80012**
Budnik, S. A. *see* **Alifanov, O. M. et al., 2005f:35125**
Burger, Martin Levenberg-Marquardt level set methods for inverse obstacle problems. (English summary) **2005f:35312**
Christov, Christo I. *see* **Marinov, Tchavdar T. et al.**
Dahlke, Stephan (*with* Maaß, Peter) An outline of adaptive wavelet Galerkin methods for Tikhonov regularization of inverse parabolic problems. (English summary) **2005f:35314**
Dehghan, Mehdi Parameter determination in a partial differential equation from the overspecified data. (English summary)
Denisov, Vitaliĭ *see* **Jushchenko, N., (2005c:65004)**
De Oliveira, Alexandre P. (*with* Orlande, Helcio R. B.) Estimation of the heat flux at the surface of ablating materials by using temperature and surface position measurements. (English summary) **2005e:35242**
De Schepper, Hennie *see* **Slodička, Marián, 2005h:80008**
Dominguez, N. (*with* Gibiat, V.; Esquerre, Y.) Time domain topological gradient and time reversal analogy: an inverse method for ultrasonic target detection. (English summary) **2005m:76159**
Esquerre, Y. *see* **Dominguez, N. et al., 2005m:76159**
Ferdinand, Robert R. Parameter estimation in a nonlinear two-dimensional population diffusion model. (English summary) **2005a:35158**
Fu, Chu-Li *see* **Xiong, Xiang-Tuan et al., 2005i:65126**
Fu, H. S. *see* **Han, Bo et al., 2005m:76160**
Gibiat, V. *see* **Dominguez, N. et al., 2005m:76159**
Goriounov, E. V. *see* **Avdeev, A. V. et al., 2005g:86020**
Han, Bo (*with* Fu, H. S.; Li, Z.) A homotopy method for the inversion of a two-dimensional acoustic wave equation. (English summary) **2005m:76160**
Hanke, Martin (*with* Rösler, Elisabeth) Computation of local volatilities from regularized Dupire equations. (English summary)
Hein, Torsten (*with* Hofmann, Bernd) On the nature of ill-posedness of an inverse problem arising in option pricing. (English summary) **2005e:91079**
Hofmann, Bernd (*with* Krämer, Romy) On maximum entropy regularization for a specific inverse problem of option pricing. (English summary) **2005k:91156**
— *see also* **Hein, Torsten, 2005e:91079**
Jushchenko, N. (*with* Denisov, Vitaliĭ) Finite-difference methods for solving inverse problems in agroecological modeling using field experiments data. (English summary) (*see* **2005c:65004**)
Kabanikhin, S. I. (*with* Ayapbergenova, A. T.) Estimation of the rate of convergence of the Landweber iteration method in an inverse problem of acoustics. (English summary) **2005f:35321**
Klibanov, Michael V. (*with* Timonov, A. A.) ★ Carleman estimates for coefficient inverse problems and numerical applications. **2005k:65107**
Krämer, Romy *see* **Hofmann, Bernd, 2005k:91156**
Lavrent'ev, M. M., Jr. *see* **Avdeev, A. V. et al., 2005g:86020**
Li, Changjun[1] *see* **Azari, Hossein et al., 2005e:35239**
Li, Hong-Fang *see* **Xiong, Xiang-Tuan et al., 2005i:65126**
Li, Z. *see* **Han, Bo et al., 2005m:76160**
Liu, JiJun *see* **Su, Jingxun**
Maaß, Peter *see* **Dahlke, Stephan, 2005f:35314**
Marinov, Tchavdar T. (*with* Christov, Christo I.; Marinova, Rossitza S.) Novel numerical approach to solitary-wave solutions identification of Boussinesq and Korteweg-de Vries equations. (English summary)
Marinova, Rossitza S. *see* **Marinov, Tchavdar T. et al.**
Mascagni, Michael (*with* Simonov, Nikolai A.) Random walk on the boundary methods for computing reaction rate and capacitance. (English summary) (*see* **2005i:65006**)
Masood, Khalid (*with* Zaman, F. D.) Initial inverse problem in a two-layer heat conduction model. (English and Arabic summaries) **2005c:80007**
Matsuura, Tsutomu (*with* Saitoh, Saburou) Numerical inversion formulas in the wave equation. (English summary)
Michailov, V. V. *see* **Alifanov, O. M. et al., 2005f:35125**
Monaco, Roberto *see* **Belleni-Morante, A. et al., 2005c:85003**
Murio, D. A. *see* **Yi, Z., 2005c:35131**
Nenarokomov, A. V. *see* **Alifanov, O. M. et al., 2005f:35125**
Nie, Yi Yong *see* **Azari, Hossein et al., 2005e:35239**
Nilssen, Trygve K. (*with* Tai, Xue-Cheng) Parameter estimation with the augmented Lagrangian method for a parabolic equation. (English summary) **2005k:49106**
Orlande, Helcio R. B. *see* **De Oliveira, Alexandre P., 2005e:35242** *and* **Saker, Leonardo F., 2005m:35123**
Parmuzin, Evgeny I. (*with* Shutyaev, V. P.) Variational data assimilation for a nonstationary heat conduction problem with nonlinear diffusion. (English summary) **2005i:35150**
Riganti, R. *see* **Belleni-Morante, A. et al., 2005c:85003**
Roberty, Nilson C. *see* **Alvarez Acevedo, Nancy I. et al., 2005b:35286**
Rösler, Elisabeth *see* **Hanke, Martin**
Sacks, Paul An inverse problem in coupled mode theory. (English summary) **2005a:34012**
Saitoh, Saburou *see* **Matsuura, Tsutomu**
Saker, Leonardo F. (*with* Orlande, Helcio R. B.) Simultaneous estimation of spatially-

dependent mass and heat transfer coefficients of drying bodies. (English summary) **2005m:35123**

Salvarani, F. *see* **Belleni-Morante, A. et al., 2005c:85003**

Shutyaev, V. P. *see* **Parmuzin, Evgeny I., 2005i:35150**

Silva Neto, Antônio J. *see* **Alvarez Acevedo, Nancy I. et al., 2005b:35286**

Simonov, Nikolai A. *see* **Mascagni, Michael, (2005i:65006)**

Slodička, Marián (*with* De Schepper, Hennie) Determination of the heat-transfer coefficient during solidification of alloys. (English summary) **2005h:80008**

Spigler, Renato *see* **Avdeev, A. V. et al., 2005g:86020**

Su, Jingxun (*with* Liu, JiJun) Reconstruction of density and wave velocity from reflection and transmission data. (English and Chinese summaries)

Sumin, M. I. A regularized gradient dual method for solving the inverse problem of final observation for a parabolic equation. (Russian. Russian summary) **2005k:49107**

Tai, Xue-Cheng *see* **Nilssen, Trygve K., 2005k:49106**

Timonov, A. A. *see* **Klibanov, Michael V., 2005k:65107**

Vexler, Boris *see* **Becker, Roland et al., 2005g:80012**

Wu, Jian Cheng *see* **Zhang, Li[1] et al.**

Xiong, Xiang-Tuan (*with* Fu, Chu-Li; Li, Hong-Fang) Central difference schemes in time and error estimate on a non-standard inverse heat conduction problem. (English summary) **2005i:65126**

Xu, Yao Qun *see* **Zhang, Li[1] et al.**

Ydin, V. M. *see* **Alifanov, O. M. et al., 2005f:35125**

Yi, Z. (*with* Murio, D. A.) Source term identification in 1-D IHCP. (English summary) **2005c:35131**

Zaman, F. D. *see* **Masood, Khalid, 2005c:80007**

Zhang, Li[1] (*with* Wu, Jian Cheng; Xu, Yao Qun) An inverse problem for determination of the unknown source term of a one-dimensional hyperbolic half-linear equation. (Chinese. English summary)

Zhang, Shu Hua[3] *see* **Azari, Hossein et al., 2005e:35239**

65M50 Mesh generation and refinement

Biswas, Rupak *see* **Feng, Huiyu et al.**

Budd, Chris J. (*with* Carretero-González, R.; Russell, R. D.) Precise computations of chemotactic collapse using moving mesh methods. (English summary) **2005m:65202**

Carretero-González, R. *see* **Budd, Chris J. et al., 2005m:65202**

Chen, Zhi Ming[1] (*with* Ji, Guanghua) Adaptive computation for convection dominated diffusion problems. (English summary) **2005f:65120**

Feng, Huiyu (*with* Van der Wijngaart, Rob F.; Biswas, Rupak) Unstructured adaptive meshes: bad for your memory? (English summary)

Guiné, Raquel P. F. Development of an algorithm based on space refinement to solve a system of parabolic PDE's. (English summary) **2005i:65136**

Huang, Yun Qing *see* **Tan, Zhijun et al., 2005f:65122**

Ji, Guanghua *see* **Chen, Zhi Ming[1], 2005f:65120**

Kok, H. P. *see* **Zegeling, P. A.**

Li, Shengtai (*with* Petzold, Linda R.) Adjoint sensitivity analysis for time-dependent partial differential equations with adaptive mesh refinement. (English summary) **2005d:65158**

Liebling, Steven L. Threshold of singularity formation in the semilinear wave equation. (English summary)

Lötstedt, Per (*with* Ramage, Alison; von Sydow, Lina; Söderberg, Stefan) Preconditioned implicit solution of linear hyperbolic equations with adaptivity. (English summary) **2005d:65159**

Margolin, L. G. (*with* Shashkov, M. Yu.) Remapping, recovery and repair on a staggered grid. (English summary) **2005f:65121**

Petzold, Linda R. *see* **Li, Shengtai, 2005d:65158**

Ramage, Alison *see* **Lötstedt, Per et al., 2005d:65159**

Rodríguez, Jerónimo Une nouvelle méthode de raffinement de maillage spatio-temporel pour l'équation des ondes. (English and French summaries) [A new space-time mesh refinement method for the wave equation]

Russell, R. D. *see* **Budd, Chris J. et al., 2005m:65202**

Shashkov, M. Yu. *see* **Margolin, L. G., 2005f:65121**

Shishkin, Grigorii I. On numerical methods on adaptive meshes for a singularly perturbed reaction-diffusion equation with a moving concentrated source. (English summary) (*see* **2005c:65004**)

Söderberg, Stefan *see* **Lötstedt, Per et al., 2005d:65159**

von Sydow, Lina *see* **Lötstedt, Per et al., 2005d:65159**

Tan, Zhijun (*with* Zhang, Zhengru; Huang, Yun Qing; Tang, Tao) Moving mesh methods with locally varying time steps. (English summary) **2005f:65122**

Tang, Tao *see* **Tan, Zhijun et al., 2005f:65122**

Van der Wijngaart, Rob F. *see* **Feng, Huiyu et al.**

Wang, Desheng (*with* Wang, Xiao Ping[1]) A three-dimensional adaptive method based on the iterative grid redistribution. (English summary) **2005d:65160**

Wang, Xiao Ping[1] *see* **Wang, Desheng, 2005d:65160**

Zegeling, P. A. (*with* Kok, H. P.) Adaptive moving mesh computations for reaction-diffusion systems. (English summary)

Zhang, Zhengru *see* **Tan, Zhijun et al., 2005f:65122**

Items with secondary classifications in 65M50

Adjerid, Slimane (*with* Moore, Peter K.; Teresco, James D.) Preface [Adaptive methods for partial differential equations and large-scale computation].

Allen, C. B. *see* **Barba, L. A. et al., 2005h:76062** *and* **2005i:76081**

Al′shin, A. B. (*with* Al′shina, E. A.; Boltnev, A. A.; Kacher, O. A.; Koryakin, P. V.) Numerical solution of initial-boundary value problems for Sobolev-type equations by the method of quasi-uniform grids. (Russian. Russian summary) **2005e:65113**

Al′shina, E. A. *see* **Al′shin, A. B. et al., 2005e:65113**

Anderson, Anthony (*with* Zheng, Xiaoming; Cristini, Vittorio) Adaptive unstructured volume remeshing. I. The method. (English summary) **2005m:76130**

— *see also* **Zheng, Xiaoming et al., 2005m:76131**

Anderson, Michael Lindsay *see* **Carey, Graham F. et al., 2005a:65146**

Anderson, Robert W. (*with* Elliott, N. S.; Pember, R. B.) An arbitrary Lagrangian-Eulerian method with adaptive mesh refinement for the solution of the Euler equations. (English summary) **2005d:76029**

Angelberger, C. *see* **Moureau, V. et al., 2005m:76138**

Barba, L. A. (*with* Leonard, Anthony; Allen, C. B.) Advances in viscous vortex methods—meshless spatial adaption based on radial basis function interpolation. (English summary) **2005h:76062**

— (*with* Leonard, Anthony; Allen, C. B.) Vortex method with meshless spatial adaption for accurate simulation of viscous, unsteady vortical flows. (English summary) **2005i:76081**

Bécache, Eliane (*with* Joly, Patrick; Rodríguez, Jerónimo) Space-time mesh refinement for the elastodynamic equations. (English summary) (*see* **2005b:00020**)

— (*with* Joly, Patrick; Rodríguez, Jerónimo) Space-time mesh refinement for elastodynamics. Numerical results. (English summary) **2005g:74052**

Belhamadia, Youssef (*with* Fortin, André; Chamberland, Éric) Anisotropic mesh adaptation for the solution of the Stefan problem. (English summary) **2005k:80013**

— (*with* Fortin, André; Chamberland, Éric) Three-dimensional anisotropic mesh adaptation for phase change problems. (English summary) **2005j:80006**

Bernardi, Christine (*with* Süli, Endre) Time and space adaptivity for the second-order wave equation. (English summary) **2005j:65105**

Boltnev, A. A. *see* **Al′shin, A. B. et al., 2005e:65113**

Bramkamp, F. (*with* Lamby, Ph.; Müller, Siegfried) An adaptive multiscale finite volume solver for unsteady and steady state flow computations. (English summary) **2005a:76106**

Brio, Moysey *see* **Zakharian, Aramis R. et al., 2005i:65129**

Burman, Erik (*with* Picasso, Marco; Rappaz, Jacques) Analysis and computation of dendritic growth in binary alloys using a phase-field model. (English summary) **2005k:65200**

Carey, Graham F. (*with* Anderson, Michael Lindsay; Carnes, B.; Kirk, Benjamin S.) Some aspects of adaptive grid technology related to boundary and interior layers. (English summary) **2005a:65146**

Carnes, B. *see* **Carey, Graham F. et al., 2005a:65146**

Casadei, Folco (*with* Potapov, Serguei) Permanent fluid-structure interaction with non-conforming interfaces in fast transient dynamics. (English summary)

Chamberland, Éric *see* **Belhamadia, Youssef et al., 2005j:80006** *and* **2005k:80013**

Chen, Ken S. Modeling electrodeposition in LIGA micro-fabrication using an arbitrary Lagrangian-Eulerian formulation for moving-boundary tracking with repeated re-meshing. (English summary) (*see* **2005b:65003**)

Chen, Zhi Ming[1] (*with* Feng, Jia[2]) An adaptive finite element algorithm with reliable and efficient error control for linear parabolic problems. (English summary) **2005e:65131**

Colin, O. *see* **Moureau, V. et al., 2005m:76138**

Cristini, Vittorio *see* **Anderson, Anthony et al., 2005m:76130** *and* **Zheng, Xiaoming et al., 2005m:76131**

Di, Yana (*with* Li, Ruo; Tang, Tao; Zhang, Ping Wen) Moving mesh finite element methods for the incompressible Navier-Stokes equations. (English summary) **2005j:65107**

Dunne, Raymond K. (*with* O'Riordan, Eugene; Shishkin, Grigorii I.) A fitted mesh method for a class of singularly perturbed parabolic problems with a boundary turning point. (English summary) **2005e:65118**

Elliott, N. S. *see* **Anderson, Robert W. et al., 2005d:76029**

Ervin, Vincent J. (*with* Ntasin, Louis N.) A posteriori error estimation and adaptive computation of viscoelastic fluid flow. (English summary) **2005k:76073**

Feng, Jia[2] *see* **Chen, Zhi Ming[1], 2005e:65131**

Flaherty, Joseph E. *see* **Remacle, Jean-François et al., 2005h:76057**

Fortin, André *see* **Belhamadia, Youssef et al., 2005j:80006** *and* **2005k:80013**

Fu, Dexun *see* **Ma, Yanwen et al.**

Furtado, Frederico (*with* Pereira, Felipe) On the scale up problem for two-phase flow in petroleum reservoirs. (English summary) **2005h:76078**

Gao, Hui[2] *see* **Ma, Yanwen et al.**

Hawke, Ian *see* **Schnetter, Erik et al., 2005i:83003**

Hawley, Scott H. *see* **Schnetter, Erik et al., 2005i:83003**

He, Dantong *see* **Thompson, Lonny L., 2005k:65206**

Hemker, Pieter W. (*with* Shishkin, Grigorii I.; Shishkina, L. P.) Novel direct-correction high-order, in space and time, accurate schemes for parabolic singularly perturbed convection-diffusion problems. (English summary) **2005d:65137**

— *see also* **Shishkin, Grigorii I. et al., 2005i:65123**

Hoffman, Johan (*with* Johnson, Claes) Adaptive finite element methods for turbulent flow. (English summary) (*see* **2005j:65003**)

Hoppe, Ronald H. W. Adaptive multigrid and domain decomposition methods in the computation of electromagnetic fields. (English summary)

Iaccarino, Gianluca *see* **Mittal, Rajat, 2005m:76137**

Iske, Armin (*with* Käser, Martin) Conservative semi-Lagrangian advection on adaptive unstructured meshes. (English summary) **2005d:65138**

Jenny, P. (*with* Lee, Seong Hee; Tchelep, H. A.) Adaptive multiscale finite-volume method for multiphase flow and transport in porous media. (English summary) **2005i:76076**

Johnson, Claes *see* **Hoffman, Johan, (2005j:65003)**

Joly, Patrick *see* **Bécache, Eliane et al., 2005g:74052** *and* **(2005b:00020)**

Jorge, J. C. *see* **Portero, L., 2005m:65203**

Kacher, O. A. *see* **Al′shin, A. B. et al., 2005e:65113**

Karakashian, Ohannes A. (*with* Makridakis, Charalambos) Convergence of a continuous Galerkin method with mesh modification for nonlinear wave equations. (English summary) **2005g:65147**

Käser, Martin *see* **Iske, Armin, 2005d:65138**

Keats, W. A. (*with* Lien, F.-S.) Two-dimensional anisotropic Cartesian mesh adaptation for the compressible Euler equations. (English summary)

Kessler, Daniel (*with* Nochetto, Ricardo H.; Schmidt, Alfred) A posteriori error control for the Allen-Cahn problem: circumventing Gronwall's inequality. (English summary) **2005e:65132**

Khachatryan, Suren Modification of the method of integration along characteristics as adaptive mesh approach in solution of hyperbolic and parabolic PDEs. (English summary)

Kirk, Benjamin S. *see* **Carey, Graham F. et al., 2005a:65146**

Kohno, Haruhiko (*with* Tanahashi, Takahiko) Numerical analysis of moving interfaces

using a level set method coupled with adaptive mesh refinement. **2005f:65128**

Koryakin, P. V. *see* **Al'shin, A. B. et al., 2005e:65113**

Lamby, Ph. *see* **Bramkamp, F. et al., 2005a:76106**

Lartigue, G. *see* **Moureau, V. et al., 2005m:76138**

Lee, Seong Hee *see* **Jenny, P. et al., 2005i:76076**

Leonard, Anthony *see* **Barba, L. A. et al., 2005h:76062** *and* **2005i:76081**

Li, Ruo *see* **Di, Yana et al., 2005j:65107**

Li, Xiangrong *see* **Remacle, Jean-François et al., 2005h:76057**

Li, Xinliang *see* **Ma, Yanwen et al.**

Liao, Guojun *see* **Xue, Jiaxing**

Lien, F.-S. *see* **Keats, W. A.**

Liseĭkin, V. D. On a universal elliptic method for constructing adaptive difference grids. (Russian. Russian summary) **2005m:65298**

Lowengrub, John *see* **Zheng, Xiaoming et al., 2005m:76131**

Ma, Yanwen (*with* Gao, Hui[2]; Fu, Dexun; Li, Xinliang) Difference schemes on non-uniform mesh and their application. (English summary)

Makridakis, Charalambos *see* **Karakashian, Ohannes A., 2005g:65147**

Mittal, Rajat (*with* Iaccarino, Gianluca) Immersed boundary methods. **2005m:76137**

Moloney, Jerome V. *see* **Zakharian, Aramis R. et al., 2005i:65129**

Moore, Peter K. *see* **Adjerid, Slimane et al.**

Moureau, V. (*with* Lartigue, G.; Sommerer, Y.; Angelberger, C.; Colin, O.; Poinsot, T.) Numerical methods for unsteady compressible multi-component reacting flows on fixed and moving grids. (English summary) **2005m:76138**

Müller, Siegfried *see* **Bramkamp, F. et al., 2005a:76106**

Nochetto, Ricardo H. *see* **Kessler, Daniel et al., 2005e:65132**

Ntasin, Louis N. *see* **Ervin, Vincent J., 2005k:76073**

O'Riordan, Eugene *see* **Dunne, Raymond K. et al., 2005e:65118**

Pember, R. B. *see* **Anderson, Robert W. et al., 2005d:76029**

Pereira, Felipe *see* **Furtado, Frederico, 2005h:76078**

Persson, Per-Olof (*with* Strang, Gilbert) A simple mesh generator in Matlab. (English summary) **2005i:65005**

Picasso, Marco *see* **Burman, Erik et al., 2005k:65200**

Poinsot, T. *see* **Moureau, V. et al., 2005m:76138**

Portero, L. (*with* Jorge, J. C.) Special meshes and domain decomposition methods for evolutionary convection-diffusion-reaction problems. (English summary) **2005m:65203**

Potapov, Serguei *see* **Casadei, Folco**

Prusa, Joseph M. *see* **Smolarkiewicz, Piotr K., 2005j:86003**

Rappaz, Jacques *see* **Burman, Erik et al., 2005k:65200**

Remacle, Jean-François (*with* Li, Xiangrong; Shephard, Mark S.; Flaherty, Joseph E.) Anisotropic adaptive simulation of transient flows using discontinuous Galerkin methods. (English summary) **2005h:76057**

Rodríguez, Jerónimo *see* **Bécache, Eliane et al., 2005g:74052** *and* **(2005b:00020)**

Roquet, Nicolas (*with* Saramito, Pierre) Stick-slip transition capturing by using an adaptive finite element method. (English summary) **2005a:76105**

Saramito, Pierre *see* **Roquet, Nicolas, 2005a:76105**

Sarra, Scott A. Adaptive radial basis function methods for time dependent partial differential equations. (English summary) **2005m:65233**

Saucez, Ph. (*with* Vande Wouwer, Alain; Schiesser, W. E.; Zegeling, P. A.) Method of lines study of nonlinear dispersive waves. (English summary)

Schiesser, W. E. *see* **Saucez, Ph. et al.**

Schmidt, Alfred A multi-mesh finite element method for 3D phase field simulations. (English summary) **2005a:65106**

— *see also* **Kessler, Daniel et al., 2005e:65132**

Schnetter, Erik (*with* Hawley, Scott H.; Hawke, Ian) Evolutions in 3D numerical relativity using fixed mesh refinement. (English summary) **2005i:83003**

Schreiber, Willard C. A mathematical model that uses an adaptive mesh for predicting scalar transport in a transient incompressible jet. (English summary) (*see* **2005b:65003**)

Shephard, Mark S. *see* **Remacle, Jean-François et al., 2005h:76057**

Shishkin, Grigorii I. (*with* Shishkina, L. P.; Hemker, Pieter W.) A class of singularly perturbed convection-diffusion problems with a moving interior layer. An a posteriori adaptive mesh technique. (English summary) **2005i:65123**

— Limitations of adaptive mesh refinement techniques for singularly perturbed problems with a moving interior layer. (English summary) **2005e:65121**

— *see also* **Hemker, Pieter W. et al., 2005d:65137** *and* **Dunne, Raymond K. et al., 2005e:65118**

Shishkina, L. P. *see* **Hemker, Pieter W. et al., 2005d:65137** *and* **Shishkin, Grigorii I. et al., 2005i:65123**

Smolarkiewicz, Piotr K. (*with* Prusa, Joseph M.) Towards mesh adaptivity for geophysical turbulence: continuous mapping approach. (English summary) **2005j:86003**

Sommerer, Y. *see* **Moureau, V. et al., 2005m:76138**

Strang, Gilbert *see* **Persson, Per-Olof, 2005i:65005**

Süli, Endre *see* **Bernardi, Christine, 2005j:65105**

Tanahashi, Takahiko *see* **Kohno, Haruhiko, 2005f:65128**

Tang, Tao *see* **Di, Yana et al., 2005j:65107**

Tchelep, H. A. *see* **Jenny, P. et al., 2005i:76076**

Teresco, James D. *see* **Adjerid, Slimane et al.**

Thompson, Lonny L. (*with* He, Dantong) Adaptive space-time finite element methods for the wave equation on unbounded domains. (English summary) **2005k:65206**

Vande Wouwer, Alain *see* **Saucez, Ph. et al.**

Xue, Jiaxing (*with* Liao, Guojun) Deformation method for multi-block mesh. (English summary)

Zakharian, Aramis R. (*with* Brio, Moysey; Moloney, Jerome V.) FDTD based second-order accurate local mesh refinement method for Maxwell's equations in two space dimensions. (English summary) **2005i:65129**

Zalesak, Steven T. The design of flux-corrected transport (FCT) algorithms for structured grids. (English summary)

Zegeling, P. A. *see* **Saucez, Ph. et al.**

Zhang, Ping Wen *see* **Di, Yana et al., 2005j:65107**

Zheng, Xiaoming (*with* Lowengrub, John; Anderson, Anthony; Cristini, Vittorio) Adaptive unstructured volume remeshing. II. Application to two- and three-dimensional level-set simulations of multiphase flow. (English summary) **2005m:76131**

— *see also* **Anderson, Anthony et al., 2005m:76130**

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Adams, Loyce (*with* Chartier, Timothy P.) New geometric immersed interface multigrid solvers. (English summary) **2005g:65136**

Aldama Rodríguez, Álvaro Alberto Nonlinearity, numerics and propagation of information. (*see* **2005f:65003**)

— *see also* **Tzatchkov, V. G. et al., (2005f:65003)**

Arreguin, F. I. *see* **Tzatchkov, V. G. et al., (2005f:65003)**

Boglaev, Igor Monotone iterative algorithms for a nonlinear singularly perturbed parabolic problem. (English summary) **2005g:65137**

Borzì, Alfio (*with* Griesse, Roland) Experiences with a space-time multigrid method for the optimal control of a chemical turbulence model. (English summary) **2005j:65101**

Cai, Xiao-Chuan *see* **Murillo, Maria, 2005f:65123** *and* **Ovtchinnikov, Serguei, 2005g:65138**

Chan, Tony F. C. *see* **Wan, W. L., (2005f:65003)**

Chang, Luo Domain decomposition procedures for parabolic equations with discontinuous coefficients. (Chinese. English and Chinese summaries) **2005j:65102**

Chartier, Timothy P. *see* **Adams, Loyce, 2005g:65136**

Chehab, J. P. (*with* Costa, Bruno) Multiparameter schemes for evolutionary equations. (English summary) **2005a:65096**

Costa, Bruno *see* **Chehab, J. P., 2005a:65096**

Cui, Xia *see* **Sheng, Zhiqiang et al., 2005i:65138**

Daoud, Daoud S. Monotone iterative methods and Schwarz methods for nonlinear parabolic PDE with time delay. (English summary) (*see* **2005g:65007**)

Falcone, Maurizio (*with* Stefani, Paolo) Advances in parallel algorithms for the Isaacs equation. (English summary) **2005h:65157**

Gander, Martin J. (*with* Halpern, Laurence) Absorbing boundary conditions for the wave equation and parallel computing. (English summary) **2005h:65158**

Ge, Yong Bin (*with* Tian, Zhen Fu; Wu, Wen Quan[2]) Multigrid solutions based on implicit schemes of the three-dimensional wave equation. (Chinese. English and Chinese summaries)

Ghahreman, N. (*with* Kerayechian, A.) Preconditioners for the pressure-correction method applied to the unsteady Stokes problem. (English summary) **2005j:65103**

Girault, Vivette (*with* Glowinski, Roland; Lopez, Hilda) A domain decomposition and mixed method for a linear parabolic boundary value problem. (English summary) **2005h:65159**

Glowinski, Roland *see* **Girault, Vivette et al., 2005h:65159**

Griesse, Roland *see* **Borzì, Alfio, 2005j:65101**

Halpern, Laurence *see* **Gander, Martin J., 2005h:65158**

Hoppe, Ronald H. W. Adaptive multigrid and domain decomposition methods in the computation of electromagnetic fields. (English summary)

Jorge, J. C. *see* **Portero, L., 2005m:65203**

Kerayechian, A. *see* **Ghahreman, N., 2005j:65103**

Kornhuber, R. (*with* Krause, Rolf H.) On multigrid methods for vector-valued Allen-Cahn equations with obstacle potential. (*see* **2005f:65003**)

Krause, Rolf H. *see* **Kornhuber, R., (2005f:65003)**

Laitinen, Erkki J. (*with* Lapin, A. V.; Pieskä, J.) Asynchronous domain decomposition methods for solving continuous casting problem. (*see* **2005f:65003**)

Lapin, A. V. *see* **Laitinen, Erkki J. et al., (2005f:65003)**

Li, Rong Jun *see* **Zhou, Shu Zi**

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Lopez, Hilda *see* **Girault, Vivette et al., 2005h:65159**

Marek, Ivo Schwarz-like methods for approximate solving cooperative systems. (English summary) **2005k:65196**

Martin, Véronique An optimized Schwarz waveform relaxation method for the unsteady convection diffusion equation in two dimensions. (English summary) **2005i:65137**

Mo, Ze Yao (*with* Shen, Long Jun) Parallel adaptive multigrid solution for a system of 2-D 3-T heat conduction equations. (Chinese. English summary) **2005j:65104**

Murillo, Maria (*with* Cai, Xiao-Chuan) A fully implicit parallel algorithm for simulating the non-linear electrical activity of the heart. (English summary) **2005f:65123**

Negreanu, Mihaela (*with* Zuazua, Enrique) A 2-grid algorithm for the 1-d wave equation. (English summary) (*see* **2005b:00020**)

Ovtchinnikov, Serguei (*with* Cai, Xiao-Chuan) One-level Newton-Krylov-Schwarz algorithm for unsteady non-linear radiation diffusion problem. (English summary) **2005g:65138**

Peirano, Éric (*with* Talay, Denis) Domain decomposition by stochastic methods. (*see* **2005f:65003**)

Peiró, J. *see* **Sherwin, Spencer J., (2005f:65003)**

Pieskä, J. *see* **Laitinen, Erkki J. et al., (2005f:65003)**

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Shen, Long Jun *see* **Mo, Ze Yao, 2005j:65104**

Sheng, Zhiqiang (*with* Liu, Xing Ping; Cui, Xia) Domain decomposition algorithm for the parabolic equation with variable coefficient. (English summary) **2005i:65138**

Sherwin, Spencer J. (*with* Peiró, J.) Algorithms and arteries: multi-domain spectral/*hp* methods for vascular flow modelling. (*see* **2005f:65003**)

Stefani, Paolo *see* **Falcone, Maurizio, 2005h:65157**

Talay, Denis *see* **Peirano, Éric, (2005f:65003)**

Tian, Zhen Fu *see* **Ge, Yong Bin et al.**

Tzatchkov, V. G. (*with* Aldama Rodríguez, Álvaro Alberto; Arreguin, F. I.) A domain decomposition strategy for the numerical simulation of contaminant transport in pipe networks. (*see* **2005f:65003**)

Wabro, Markus Coupled algebraic multigrid methods for the Oseen problem. (English summary) **2005e:65139**

Wan, W. L. (*with* Chan, Tony F. C.) Wave propagation analysis of multigrid methods for convection dominated problems. (*see* **2005f:65003**)

Wu, Wen Quan[2] *see* **Ge, Yong Bin et al.**

Zhou, Shu Zi (*with* Li, Rong Jun) A cascadic multigrid algorithm for semilinear parabolic problems. (Chinese. English and Chinese summaries)

Zuazua, Enrique *see* **Negreanu, Mihaela**, (2005b:00020)

Items with secondary classifications in 65M55

Abide, Stéphane (*with* Viazzo, Stéphane) A 2D compact fourth-order projection decomposition method. (English summary) **2005k:76092**

Badea, Lori (*with* Ionescu, Ioan R.; Wolf, Sylvie) Domain decomposition method for dynamic faulting under slip-dependent friction. (English summary) **2005f:74056**

Bastian, Peter Higher order discontinuous Galerkin methods for flow and transport in porous media. (English summary) (*see* **2005a:65001**)

Calugaru, Dan-Gabriel (*with* Tromeur-Dervout, Damien) Aitken acceleration of Dirichlet-Neumann algorithm for flow in porous media with discontinuous permeability. (English summary) (*see* **2005b:76005**)

Catalano, L. A. (*with* Dadone, A.; Daloiso, V. S. E.) Progressive optimization on unstructured grids using multigrid-aided finite-difference sensitivities. (English summary)

Chen, Jin-ru *see* **Xu, Xue Jun**, 2005e:65151

Chen, Wen[4] *see* **Fish, Jacob**, 2005d:82118

Chen, Xianqiao *see* **Lin, Ping[1] et al.**, 2005g:76077

Churbanov, A. G. (*with* Vabishchevich, Petr N.) Domain decomposition techniques to solve the Navier-Stokes equations. (English summary) (*see* **2005b:76005**)

Dadone, A. *see* **Catalano, L. A. et al.**

Daloiso, V. S. E. *see* **Catalano, L. A. et al.**

Devine, Karen D. *see* **Shadid, John N. et al.**

Discacciati, Marco (*with* Quarteroni, Alfio) Convergence analysis of a subdomain iterative method for the finite element approximation of the coupling of Stokes and Darcy equations. (English summary) **2005e:65142**

Douglas, Craig C. (*with* Haase, Gundolf) Algebraic multigrid and Schur complement strategies within a multilayer spectral element ocean model. (English summary) **2005h:65163**

Fish, Jacob (*with* Chen, Wen[4]) Discrete-to-continuum bridging based on multigrid principles. (English summary) **2005d:82118**

Flemisch, Bernd (*with* Wohlmuth, Barbara I.) A domain decomposition method on nested domains and nonmatching grids. (English summary) **2005d:65228**

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Hientzsch, Bernhard Fast solvers and Schwarz preconditioners for spectral Nédélec elements for a model problem in $H(\mathrm{curl})$. (*see* **2005f:65003**)

Hong, Wei[1] *see* **Xu, Feng[8]**

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Kang, Kab Seok P_1 nonconforming finite element multigrid method for radiation transport. (English summary) **2005e:85002**

Kang, Tong (*with* Ma, Chang Feng; Liang, Guo Ping) H-based A $-\varphi$ approaches of approximating eddy current problem by way of solving different systems inside and outside the conductor. (English summary) **2005h:65165**

(Keyes, David E.) *see* **Domain decomposition methods in science and engineering**, 2005f:65003

Klar, Axel (*with* Thömmes, Guido) Numerical methods for radiative heat transfer in diffusive regimes and applications to glass manufacturing. (English summary) **2005b:85004**

Knopp, Tobias (*with* Lube, Gert; Gritzki, Ralf; Rösler, Markus) A near-wall strategy for buoyancy-affected turbulent flows using stabilized FEM with applications to indoor air flow simulation. (English summary) **2005m:76115**

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Lin, P. T. *see* **Shadid, John N. et al.**

Lin, Ping[1] (*with* Chen, Xianqiao; Ong, Ming Tze) Finite element methods based on a new formulation for the non-stationary incompressible Navier-Stokes equations. (English summary) **2005g:76077**

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Ong, Ming Tze *see* **Lin, Ping[1] et al.**, 2005g:76077

Paz, Rodrigo R. (*with* Storti, Mario A.) An interface strip preconditioner for domain decomposition methods: application to hydrology. (English summary) **2005j:86002**

Pironneau, Olivier Numerical and mathematical methods for the nuclear waste disposal problem. (English summary) (*see* **2005h:00013**)

Quarteroni, Alfio *see* **Discacciati, Marco**, 2005e:65142

Ren, Chun Feng (*with* Ma, Yi Chen; Ying, Gen Jun) A two-grid method for the unsteady Navier-Stokes equations with a penalty form. (Chinese. English summary) **2005k:76101**

Rivkind, Liudmila S. *see* **Wan, Decheng et al.**, (2005j:65003)

Rösler, Markus *see* **Knopp, Tobias et al.**, 2005m:76115

Shadid, John N. (*with* Tuminaro, Raymond S.; Devine, Karen D.; Hennigan, G. L.; Lin, P. T.) Performance of fully coupled domain decomposition preconditioners for finite element transport/reaction simulations. (English summary)

Shen, Long Jun *see* **Yuan, Guangwei**, 2005a:65091

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Suzuki, Atsushi (*with* Tabata, Masahisa) Finite element matrices in congruent subdomains and their effective use for large-scale computations. (English summary) **2005m:65283**

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Thornburg, Jonathan Black-hole excision with multiple grid patches. (English summary) **2005f:83004**

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Turek, Stefan *see* **Wan, Decheng et al.**, (2005j:65003)

Ünal, V. Ü. (*with* Gülçat, Ü.) Parallel implicit solution of full Navier-Stokes equations. (English summary) (*see* **2005g:00014**)

Vabishchevich, Petr N. *see* **Churbanov, A. G.**, (2005b:76005)

Vasilevskiĭ, Yu. V. *see* **Lacroix, Sébastien et al.**, 2005e:65039

Viazzo, Stéphane *see* **Abide, Stéphane**, 2005k:76092

Wan, Decheng (*with* Turek, Stefan; Rivkind, Liudmila S.) An efficient multigrid FEM solution technique for incompressible flow with moving rigid bodies. (English summary) (*see* **2005j:65003**)

Wheeler, John Archibald *see* **Lacroix, Sébastien et al.**, 2005e:65039

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Wu, Bo Ying (*with* Liu, Xiangning) Domain decomposition adaptive algorithm with wavelet method to trace shock wave. (English summary) (*see* **2005i:42002**)

Xu, Feng[8] (*with* Hong, Wei[1]) Domain decomposition FDTD algorithm for the analysis of a new type of E-plane sectorial Horn with aperture field distribution optimization. (English summary)

Xu, Xue Jun (*with* Chen, Jin-ru) Multigrid for the mortar finite element for parabolic problem. (English summary) **2005e:65151**

(Yates, Robert E.) *see* **Domain decomposition methods in science and engineering**, 2005f:65003

Ying, Gen Jun *see* **Ren, Chun Feng et al.**, 2005k:76101

Yuan, Guangwei (*with* Shen, Long Jun) Stability and convergence of the explicit-implicit conservative domain decomposition procedure for parabolic problems. (English summary) **2005a:65091**

Zhou, Shu Zi (*with* Shu, Xiang Gai) A new cascadic multigrid method for parabolic problems. (Chinese. English and Chinese summaries) **2005f:65132**

Items listed otherwise than by author

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— (*with* Crouzeix, Michel) Linearly implicit methods for nonlinear parabolic equations. (English summary) **2005a:65097**

Alonso Rodríguez, Ana (*with* Hiptmair, Ralf; Valli, Alberto) Mixed finite element approximation of eddy current problems. (English summary) **2005d:65162**

Ann, M. H. (*with* Shin, Jun Yong) Error estimates for mixed finite element approximations to a linear Stefan problem. (English summary) **2005d:65163**

Archapitak, J. *see* **Wiwatanapataphee, Benchawan et al.**, 2005b:65111

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— *see also* **Wells, B. V. et al.**, 2005m:65227

Bänsch, Eberhard (*with* Morin, Pedro; Nochetto, Ricardo H.) Surface diffusion of graphs: variational formulation, error analysis, and simulation. (English summary) **2005h:65160**

— (*with* Morin, Pedro; Nochetto, Ricardo H.) A finite element method for surface diffusion: the parametric case. (English summary) **2005g:65139**

Barrett, John W.[1] (*with* Garcke, Harald; Nürnberg, Robert) Finite element approximation of surfactant spreading on a thin film. (English summary) **2005a:65098**

— (*with* Nürnberg, Robert) Convergence of a finite-element approximation of surfactant spreading on a thin film in the presence of van der Waals forces. (English summary) **2005a:65099**

— (*with* Blowey, James F.) Finite element approximation of a nonlinear cross-diffusion population model. (English summary) **2005f:65125**

— (*with* Nürnberg, Robert; Styles, Vanessa) Finite element approximation of a phase field model for void electromigration. (English summary) **2005m:65206**

Belytschko, Ted *see* **Chessa, Jack**, 2005f:65126

Bensaada, Mohammed (*with* Esselaoui, Driss) Numerical analysis of Euler-SUPG modified method for transient viscoelastic flow. (English summary) **2005k:65197**

— (*with* Esselaoui, Driss; Sandri, Dominique) Stabilization method for continuous approximation of transient convection problem. (English summary) **2005i:65139**

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Bi, Chun-jia Finite volume element method with Crouzeix-Raviart element for parabolic problems. (English and Chinese summaries) **2005k:65198**

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Bochev, Pavel B. (*with* Gunzburger, Max D.; Shadid, John N.) Stability of the SUPG finite element method for transient advection-diffusion problems. (English summary) **2005a:65100**

Boffi, Daniele (*with* Gastaldi, Lucia) Stability and geometric conservation laws for ALE formulations. (English summary) **2005d:65164**

— (*with* Gastaldi, Lucia) Analysis of finite element approximation of evolution problems in mixed form. (English summary) **2005k:65199**

Bokil, Vrushali A. (*with* Glowinski, Roland) A fictitious domain method with operator splitting for wave problems in mixed form. (English summary) (*see* **2005b:00020**)

— (*with* Glowinski, Roland) An operator splitting scheme with a distributed Lagrange multiplier based fictitious domain method for wave propagation problems. (English summary) **2005m:65207**

Bonnet-Ben Dhia, Anne-Sophie (*with* Legendre, Guillaume; Lunéville, Eric) Regularization of the time-harmonic Galbrun's equations. (*see* **2005b:00020**)

Boutayeb, Abdesslam (*with* Chetouani, Abdelaziz) Galerkin approximation for a semi linear parabolic problem with nonlocal boundary conditions. (English summary) **2005b:65105**

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Bulychev, Yu. G. (*with* Lapsar′, A. P.) The problem of the operational prediction of the stochastic characteristics of Markov parametric systems. (Russian. English and Ukrainian summaries) **2005i:65140**

Burda, Pavel (*with* Novotný, Jaroslav; Sousedík, Bedřich; Šístek, Jakub) Finite element mesh adjusted to singularities applied to axisymmetric and plane flow. (English summary) (*see* **2005j:65003**)

Burman, Erik (*with* Picasso, Marco; Rappaz, Jacques) Analysis and computation of dendritic growth in binary alloys using a phase-field model. (English summary) **2005k:65200**

— (*with* Kessler, Daniel; Rappaz, Jacques) Convergence of the finite element method applied to an anisotropic phase-field model. (English summary) **2005h:65161**

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Calle, Jorge L. D. (*with* Devloo, Philippe R. B.; Gomes, Sônia M.) Stabilized discontinuous Galerkin method for hyperbolic equations. (English summary) **2005j:65108**

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Carstensen, Carsten (*with* Rieger, Marc Oliver) Young-measure approximations for elastodynamics with non-monotone stress-strain relations. (English summary) **2005g:65141**

— (*with* Dolzmann, Georg) Time-space discretization of the nonlinear hyperbolic system $u_{tt} = \operatorname{div}(\sigma(Du) + Du_t)$. (English summary) **2005e:65140**

Cecil, Thomas C. (*with* Qian, Jianliang; Osher, Stanley) Numerical methods for high dimensional Hamilton-Jacobi equations using radial basis functions. (English summary) **2005d:65165**

Chen, Hua (*with* Chen, Yan Ping[1]) A combined mixed finite element and discontinuous Galerkin method for compressible miscible displacement problem. (English and Chinese summaries)

Chen, Huan Zhen *see* **Zhao, Pei Xin, 2005d:65171**

Chen, Jin-ru *see* **Xu, Xue Jun, 2005e:65151**

Chen, Ken S. Modeling electrodeposition in LIGA micro-fabrication using an arbitrary Lagrangian-Eulerian formulation for moving-boundary tracking with repeated re-meshing. (English summary) (*see* **2005b:65003**)

Chen, Min-Hung (*with* Cockburn, Bernardo; Reitich, Fernando) High-order RKDG methods for computational electromagnetics. (English summary) **2005m:65208**

Chen, Tsu-Fen Weighted least-squares approximations to nonlinear hyperbolic equations. (English summary) **2005j:65106**

Chen, Yan Ping[1] *see* **Chen, Hua**

Chen, Zhangxin Characteristic-nonconforming finite-element methods for advection-dominated diffusion problems. (English summary) **2005m:65209**

Cheng, Dai Zhan *see* **Wang, QuanFang, 2005h:65174**

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Chetouani, Abdelaziz *see* **Boutayeb, Abdesslam, 2005b:65105**

Chevaugeon, Nicolas (*with* Xin, Jianguo; Hu, Peng; Li, Xiangrong; Cler, D.; Flaherty, Joseph E.; Shephard, Mark S.) Discontinuous Galerkin methods applied to shock and blast problems. (English summary) **2005m:65210**

Christou, M. A. (*with* Christov, Christo I.) Fourier-Galerkin method for time dependent problems of interacting localized waves. (English summary) (*see* **2005m:00011**)

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Dahlgren, Martin A finite element method for parabolic equations. (*see* **2005a:00022**)

Dai, Jia Zun *see* **Dai, Pei Liang, 2005g:65142**

Dai, Pei Liang (*with* Dai, Jia Zun) The lumped mass nonconforming finite element methods for a parabolic problem. (Chinese. English and Chinese summaries) **2005g:65142**

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Devloo, Philippe R. B. *see* **Calle, Jorge L. D. et al., 2005j:65108**

Di, Yana (*with* Li, Ruo; Tang, Tao; Zhang, Ping Wen) Moving mesh finite element methods for the incompressible Navier-Stokes equations. (English summary) **2005j:65107**

Discacciati, Marco (*with* Quarteroni, Alfio) Convergence analysis of a subdomain iterative method for the finite element approximation of the coupling of Stokes and Darcy equations. (English summary) **2005e:65142**

Dogan, Abdulkadir A Galerkin finite element approach to Burgers' equation. (English summary)

— Application of Galerkin's method to equal width wave equation. (English summary) **2005h:65162**

Dolejší, Vít Discontinuous Galerkin finite element method for the numerical solution of viscous compressible flows. (English summary) (*see* **2005j:65003**)

— (*with* Feistauer, Miloslav; Sobotíková, Veronika) Analysis of the discontinuous Galerkin method for nonlinear convection-diffusion problems. (English summary) **2005m:65211**

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Doweidar, M. H. *see* **Hauke, Guillermo, 2005j:65111**

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Sladek, J. (*with* Sladek, Valdimir; Atluri, Satya N.) Meshless local Petrov-Galerkin method for heat conduction problem in an anisotropic medium. (English summary)
Sladek, Valdimir *see* **Sladek, J. et al.**
Smagin, V. V. Strong-norm error estimates for the projective-difference method for parabolic equations with a modified Crank-Nicolson scheme. (Russian. Russian summary) **2005h:65171**
Sobotíková, Veronika *see* **Dolejší, Vít et al.**, 2005m:65211
Šolín, Pavel *see* **Zítka, Martin et al.**, (2005j:65003)
de Sousa, F. S. (*with* Mangiavacchi, Norberto) A Lagrangian level-set approach for the simulation of incompressible two-fluid flows. (English summary)
Sousedík, Bedřich *see* **Burda, Pavel et al.**, (2005j:65003)
Styles, Vanessa *see* **Barrett, John W.[1] et al.**, 2005m:65206; **Elliott, Charles M. et al.**, 2005m:65212 *and* 2005m:65213
Su, Zhi Xun *see* **Nashunbuhe et al.**, 2005e:65148
Süli, Endre *see* **Bernardi, Christine**, 2005j:65105
Sun, Che (*with* Cao, Song) Economical finite difference-streamline diffusion method for convection-dominated diffusion problems. (Chinese. English summary) **2005j:65117**
Sun, Shuyu (*with* Rivière, Béatrice; Wheeler, Mary Fanett) A combined mixed finite element and discontinuous Galerkin method for miscible displacement problem in porous media. (English summary) **2005b:65110**
— (*with* Wheeler, Mary Fanett) Discontinuous Galerkin methods for coupled flow and reactive transport problems. (English summary) **2005m:65224**
Sun, Yuzhi (*with* Wang, Zhi Jian[4]) Evaluation of discontinuous Galerkin and spectral volume methods for scalar and system conservation laws on unstructured grids. (English summary) **2005c:65086**
Tabata, Masahisa (*with* Tagami, Daisuke) Error estimates of finite element methods for nonstationary thermal convection problems with temperature-dependent coefficients. (English summary) **2005m:65225**
Tagami, Daisuke *see* **Tabata, Masahisa**, 2005m:65225
Tanahashi, Takahiko *see* **Kohno, Haruhiko**, 2005f:65128
Tang, Tao *see* **Di, Yana et al.**, 2005j:65107
Thomée, Vidar (*with* Wahlbin, L. B.) Maximum-norm estimates for finite-element methods for a strongly damped wave equation. (English summary) **2005g:65151**
Thompson, Lonny L. (*with* He, Dantong) Adaptive space-time finite element methods for the wave equation on unbounded domains. (English summary) **2005k:65206**
— *see also* **Kunthong, Prapot**, 2005k:65203
Tian, Xiang Jun (*with* Xie, Zheng Hui; Luo, Zhen Dong; Zhu, Jiang[3]) Nonlinear Galerkin mixed element methods for nonstationary conduction-convection problems. III. Second-order-accuracy time fully discrete format. (Chinese. English summary) **2005h:65172**
Toivanen, Jari *see* **Glowinski, Roland et al.**, (2005b:00020)
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Tzavaras, Athanasios E. *see* **Arvanitis, Christos et al.**, 2005m:65204
Ünal, V. Ü. (*with* Gülçat, Ü.) Parallel implicit solution of full Navier-Stokes equations. (English summary) (*see* **2005g:00014**)
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Valli, A. M. P. (*with* Carey, Graham F.; Coutinho, Alvaro L. G. A.) Control strategies for timestep selection in finite element simulation of incompressible flows and coupled reaction-convection-diffusion processes. (English summary) **2005m:65226**
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Van, Tri (*with* Wood, Aihua W.) A time-domain finite element method for Maxwell's equations. (English summary) **2005h:65173**
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Vaz dos Santos, M. A. *see* **Fortes, C. J. E. M. et al.**, (2005b:00020)
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Verfürth, Rüdiger A posteriori error estimates for finite element discretizations of the heat equation. (English summary) **2005f:65131**
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Wahlbin, L. B. *see* **Thomée, Vidar**, 2005g:65151
Wan, Decheng (*with* Turek, Stefan; Rivkind, Liudmila S.) An efficient multigrid FEM solution technique for incompressible flow with moving rigid bodies. (English summary) (*see* **2005j:65003**)
Wan, W. L. *see* **Hill, Adrian T.**, 2005f:65127
Wang, QuanFang (*with* Cheng, Dai Zhan) Numerical solution of damped nonlinear Klein-Gordon equations using variational method and finite element approach. (English summary) **2005h:65174**
Wang, Zhi Jian[4] *see* **Sun, Yuzhi**, 2005c:65086
Warnecke, Gerald G. *see* **Lukáčová-Medvid'ová, M. et al.**, 2005f:65129 *and* 2005h:65168
Wei, Xiaoxi *see* **Li, Hong[7]**, 2005m:65218
Wells, B. V. (*with* Baines, Michael; Glaister, P.) Generation of arbitrary Lagrangian-Eulerian (ALE) velocities, based on monitor functions, for the solution of compressible fluid equations. (English summary) **2005m:65227**
Wenston, Paul *see* **Lai, Ming-Jun et al.**, 2005a:65105
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Wiwatanapataphee, Benchawan (*with* Wu, Yong Hong[1]; Archapitak, J.; Siew, P. F.; Unyong, B.) A numerical study of the turbulent flow of molten steel in a domain with a phase-change boundary. (English summary) **2005b:65111**
Wood, Aihua W. *see* **Van, Tri**, 2005h:65173
Wu, Yong Hong[1] *see* **Wiwatanapataphee, Benchawan et al.**, 2005b:65111
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Xie, Zheng Hui *see* **Tian, Xiang Jun et al., 2005h:65172**
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Xu, Kun Discontinuous Galerkin BGK method for viscous flow equations: one-dimensional systems. (English summary) **2005i:65148**
Xu, Xue Jun (*with* Chen, Jin-ru) Multigrid for the mortar finite element for parabolic problem. (English summary) **2005e:65151**
Xu, Yan[5] (*with* Shu, Chi-Wang) Local discontinuous Galerkin methods for three classes of nonlinear wave equations. (English summary) **2005h:65175**
— (*with* Shu, Chi-Wang) Local discontinuous Galerkin methods for nonlinear Schrödinger equations. (English summary) **2005m:65228**
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Zhang, Ping Wen *see* **Di, Yana et al., 2005j:65107** *and* **Lu, Tiao et al., 2005m:65219**
Zhang, Qiang[3] Splitting scheme of finite-difference streamline diffusion method for linear convection-diffusion equation. (English summary) **2005e:65152**
Zhang, Qinghai *see* **Jiang, Chunbo et al.**
Zhang, Shu Hua[3] *see* **Huang, Wanzhen et al., 2005g:65146**
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Zhang, Zhi Yue *see* **Nashunbuhe et al., 2005e:65148**
Zhao, Chunshan *see* **He, Yinnian et al., 2005g:65144**
Zhao, Jun[4] Analysis of finite element approximation for time-dependent Maxwell problems. (English summary) **2005b:65112**
Zhao, Lin Lin (*with* Xie, Shu Sen; Guo, Cui Ping) *B*-spline Galerkin method for the Kuramoto-Sivashinsky equation. (Chinese. English and Chinese summaries)
Zhao, Pei Xin (*with* Chen, Huan Zhen) A characteristic-mixed finite element method for a Sobolev equation. (Chinese. English and Chinese summaries) **2005d:65171**
Zhao, Zhi Yong[2] (*with* Hu, Jian-wei) The upwind finite element scheme and maximum principle for nonlinear convection-diffusion problem. (English summary) **2005h:65176**
Zhou, Shu Zi (*with* Shu, Xiang Gai) A new cascadic multigrid method for parabolic problems. (Chinese. English and Chinese summaries) **2005f:65132**
Zhu, Jiang[3] *see* **Tian, Xiang Jun et al., 2005h:65172**
Zítka, Martin (*with* Segeth, Karel; Šolín, Pavel) Higher-order FEM for a system of nonlinear parabolic PDE's in 2D with a-posteriori error estimates. (English summary) (*see* **2005j:65003**)
Zunino, Paolo Iterative substructuring methods for advection-diffusion problems in heterogeneous media. (English summary) **2005f:65133**

Items with secondary classifications in 65M60

Abreu, Eduardo (*with* Furtado, Frederico; Pereira, Felipe) On the numerical simulation of three-phase reservoir transport problems. (English summary) **2005k:76126**
Ackerer, Ph. *see* **Hoteit, H. et al., 2005e:76060**
Ackleh, Azmy S. (*with* Deng, Keng) On a nonlocal hyperbolic model arising from a reliability system. (English summary) **2005j:35013**
Adolfsson, Klas (*with* Enelund, M.; Larsson, Stig) Adaptive discretization of fractional order viscoelasticity using sparse time history. (English summary) **2005d:74008**
Albarreal Núñez, Isidoro I. (*with* Calzada Canalejo, M. Carmen; Cruz Soto, José Luis; Fernández Cara, Enrique; Galo Sánchez, José R.; Marín Beltrán, Mercedes) Time and space parallelization of the Navier-Stokes equations. (English summary) **2005k:65162**
Aliabadi, Shahrouz *see* **Tu, Shuangzhang, 2005h:76058**
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Antoine, Xavier (*with* Besse, Christophe; Mouysset, Vincent) Numerical schemes for the simulation of the two-dimensional Schrödinger equation using non-reflecting boundary conditions. (English summary) **2005c:65067**
Aregba-Driollet, D. (*with* Diele, Fasma; Natalini, Roberto) A mathematical model for the sulphur dioxide aggression to calcium carbonate stones: numerical approximation and asymptotic analysis. (English summary) **2005g:65120**
Atluri, Satya N. *see* **Sladek, J. et al.**
Atwell, Jeanne A. (*with* King, Belinda B.) Reduced order controllers for spatially distributed systems via proper orthogonal decomposition. (English summary) **2005m:93028**
Avilez-Valente, P. (*with* Seabra-Santos, F. J.) A Petrov-Galerkin finite element scheme for the regularized long wave equation. (English summary) **2005k:76071**
Ayati, Bruce P. (*with* Dupont, Todd F.) Convergence of a step-doubling Galerkin method for parabolic problems. (English summary) **2005k:35166**
Azar, Fred S. (*with* Metaxas, Dimitris N.; Schnall, Mitchell D.) Methods for modeling and predicting mechanical deformations of the breast under external perturbations. (*see* **2005e:92001**)
Banks, H. T. (*with* Browning, Brian L.) Time domain electromagnetic scattering using finite elements and perfectly matched layers. (English summary) **2005h:78013**
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Bécache, Eliane (*with* Ezziani, Abdelaâziz; Joly, Patrick) Mathematical and numerical modeling of wave propagation in linear viscoelastic media. (*see* **2005b:00020**)
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Benhassine, S. *see* **Silveira, J. L. et al., (2005b:00020)**
Bermúdez de Castro, Alfredo (*with* Otero, M. V.) Numerical solution of a three-dimensional solidification problem in aluminium casting. (English summary)
— (*with* Rodríguez, Rodolfo; Salgado, Pilar) Numerical treatment of realistic boundary conditions for the eddy current problem in an electrode via Lagrange multipliers. (English summary) **2005d:78016**
Bernakevich, Ī. Ē. (*with* Vagīn, P. P.; Shinkarenko, G. A.) A mathematical model of acoustic interaction between a shell and a fluid. II. Projection-difference approximations and their convergence. (Ukrainian. English, Russian and Ukrainian summaries) **2005i:74025**
Bernardi, Christine (*with* Verfürth, Rüdiger) A posteriori error analysis of the fully discretized time-dependent Stokes equations. (English summary) **2005g:65131**
Besse, Christophe *see* **Antoine, Xavier et al., 2005c:65067**
Blatter, Heinz *see* **Picasso, Marco et al., 2005g:86026**
Bochev, Pavel B. (*with* Gunzburger, Max D.; Shadid, John N.) On inf-sup stabilized finite element methods for transient problems. (English summary) **2005e:65128**
Brokate, Martin (*with* Carstensen, Carsten; Valdman, Jan) A quasi-static boundary value problem in multi-surface elastoplasticity. II. Numerical solution. (English summary) **2005k:74015**
Browning, Brian L. *see* **Banks, H. T., 2005h:78013**
Burbeau-Augoula, Anne (*with* Sagaut, P.) A dynamic *p*-adaptive discontinuous Galerkin method for viscous flow with shocks. (English summary) **2005k:76072**
Cai, Wei *see* **Lu, Tiao et al., 2005e:78025**
Calzada Canalejo, M. Carmen *see* **Albarreal Núñez, Isidoro I. et al., 2005k:65162**
Campo Andión, M. (*with* Fernández García, José Ramón) Numerical analysis of a quasistatic thermoviscoelastic frictional contact problem. (English summary) **2005k:74062**
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Castro, R. G. S. *see* **Coutinho, Alvaro L. G. A. et al., 2005b:76083**
Chacón-Rebollo, Tomás (*with* Rodríguez Gómez, David) A stabilized space-time discretization for the primitive equations in oceanography. (English summary) **2005g:86005**
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Chang, Luo Domain decomposition procedures for parabolic equations with discontinuous coefficients. (Chinese. English and Chinese summaries) **2005j:65102**
Chatzipantelidis, P. (*with* Lazarov, R. D.; Thomée, Vidar) Error estimates for a finite volume element method for parabolic equations in convex polygonal domains. (English summary) **2005g:65122**
Chen, Huan Zhen (*with* Jiang, Ziwen) A characteristics-mixed finite element method for Burgers' equation. (English summary) **2005d:65154**
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Chen, Xianqiao *see* **Lin, Ping**[1] **et al., 2005g:76077**
Chen, Zhangxin *see* **He, Yinnian et al., 2005m:65188**
Chen, Zhi Ming[1] (*with* Feng, Jia[2]) An adaptive finite element algorithm with reliable and efficient error control for linear parabolic problems. (English summary) **2005e:65131**
— (*with* Ji, Guanghua) Adaptive computation for convection dominated diffusion problems. (English summary) **2005f:65120**
Cheng, Chang-Jun *see* **Chen, Li Qun, 2005h:74040**
Chou, Ji Fan *see* **Dai, Xingang et al.**
Clarenz, Ulrich (*with* Diewald, U.; Dziuk, Gerhard; Rumpf, Martin; Rusu, R.) A finite element method for surface restoration with smooth boundary conditions. (English summary) **2005a:65017**
Codina, Ramon (*with* Soto, Orlando) Approximation of the incompressible Navier-Stokes equations using orthogonal subscale stabilization and pressure segregation on anisotropic finite element meshes. (English summary) **2005b:76082**
Copetti, Maria I. M. Numerical approximation of dynamic deformations of a thermoviscoelastic rod against an elastic obstacle. (English summary) **2005e:74030**
— Numerical approximation of a thermoviscoelastic problem to the contact of two rods by a penalty method. (English summary) **2005g:74089**
Coutinho, Alvaro L. G. A. (*with* Dias, C. M.; Alves, J. L. D.; Landau, Luiz; Loula, Abimael F. D.; Malta, S. M. C.; Castro, R. G. S.; Garcia, E. L. M.) Stabilized methods and post-processing techniques for miscible displacements. (English summary) **2005b:76083**
Cruz Soto, José Luis *see* **Albarreal Núñez, Isidoro I. et al., 2005k:65162**
Dai, Xingang (*with* Wang, Ping[8]; Chou, Ji Fan) A quasi-geostrophic wavelet-spectrum model for barotropic atmosphere and its numerical solution. (English summary)
Dawson, Clint (*with* Proft, Jennifer) Discontinuous/continuous Galerkin methods for coupling the primitive and wave continuity equations of shallow water. (English summary) **2005h:76053**
Deckelnick, Klaus (*with* Dziuk, Gerhard) Mean curvature flow and related topics. (English summary) **2005e:65016**
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Deĭneka, V. S. *see* **Sergienko, Ivan V., 2005j:76087** *and* **2005m:74038**
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Díaz Díaz, Jesús Ildefonso (*with* Tello, José Ignacio) Mathematical analysis, controllability and numerical simulation of a simple model of avascular tumor growth. **2005f:92004**
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Dolejší, Vít On the discontinuous Galerkin method for the numerical solution of the Navier-Stokes equations. (English summary) **2005f:76064**
— (*with* Feistauer, Miloslav) A semi-implicit discontinuous Galerkin finite element method for the numerical solution of inviscid compressible flow. (English summary) **2005b:76085**
Dong, Suchuan (*with* Liu, Dong; Maxey, Martin R.; Karniadakis, George Em) Spectral

distributed Lagrange multiplier method: algorithm and benchmark tests. (English summary) **2005a:76099**

Droske, M. (*with* Rumpf, Martin) A variational approach to nonrigid morphological image registration. (English summary) **2005a:49022**

— (*with* Rumpf, Martin) A level set formulation for Willmore flow. (English summary) **2005f:35145**

Du, Ning Alternating-direction characteristics finite element method for a kind of convection-dominated nonlinear parabolic systems. (English and Chinese summaries) **2005j:65096**

Duarte, Fabián (*with* Gormaz, Raúl; Natesan, Srinivasan) Arbitrary Lagrangian-Eulerian method for Navier-Stokes equations with moving boundaries. (English summary) **2005f:76065**

Dupont, Todd F. *see* **Ayati, Bruce P., 2005k:35166**

Dziuk, Gerhard *see* **Clarenz, Ulrich et al., 2005a:65017** *and* **Deckelnick, Klaus, 2005e:65016**

Efe, Mehmet Önder (*with* Özbay, Hitay) Low dimensional modelling and Dirichlét boundary controller design for Burgers equation. (English summary) **2005e:93056**

El Alaoui Talibi, Mohamed (*with* Tber, Moulay Hicham) On a problem of shallow water type. (English summary) **2005k:76024**

Enelund, M. *see* **Adolfsson, Klas et al., 2005d:74008**

Ern, Alexandre (*with* Guermond, Jean-Luc) ★ Theory and practice of finite elements. **2005d:65002**

Ervin, Vincent J. (*with* Miles, William W.) Approximation of time-dependent, multi-component, viscoelastic fluid flow. (English summary) **2005j:76058**

— (*with* Ntasin, Louis N.) A posteriori error estimation and adaptive computation of viscoelastic fluid flow. (English summary) **2005k:76073**

Ewing, Richard E. (*with* Lin, Yan Ping; Wang, Jun Ping[1]; Zhang, Shu Hua[3]) L^∞-error estimates and superconvergence in maximum norm of mixed finite element methods for non-Fickian flows in porous media. (English summary) **2005k:76074**

Ezziani, Abdelaâziz *see* **Bécache, Eliane et al., (2005b:00020)**

Faragó, István (*with* Horváth, Róbert; Korotov, Sergey) Discrete maximum principle for linear parabolic problems solved on hybrid meshes. (English summary) **2005j:35011**

Feistauer, Miloslav (*with* Švadlenka, K.) Discontinuous Galerkin method of lines for solving nonstationary singularly perturbed linear problems. (English summary) **2005h:65150**

— *see also* **Dolejší, Vít, 2005b:76085** *and* **Sváček, Petr, (2005j:65003)**

Feng, Jia[2] *see* **Chen, Zhi Ming[1], 2005e:65131**

Feng, Xiaobing (*with* Xie, Zheng Hui) A priori error estimates for a coupled finite element method and mixed finite element method for a fluid-solid interaction problem. (English summary) **2005i:74021**

— (*with* Prohl, Andreas) Analysis of a fully discrete finite element method for the phase field model and approximation of its sharp interface limits. (English summary) **2005b:74115**

— (*with* Prohl, Andreas) Error analysis of a mixed finite element method for the Cahn-Hilliard equation. (English summary) **2005m:65191**

— (*with* Prohl, Andreas) Numerical analysis of the Cahn-Hilliard equation and approximation of the Hele-Shaw problem. (English summary) **2005j:35098**

Fernández Cara, Enrique *see* **Albarreal Núñez, Isidoro I. et al., 2005k:65162**

Fernández García, José Ramón (*with* Sofonea, Mircea) Variational and numerical analysis of the Signorini's contact problem in viscoplasticity with damage. **2005e:74040**

— *see also* **Campo Andión, M., 2005k:74062**

Fernandez Merodo, José Antonio *see* **Quecedo, Manuel et al., 2005m:76118** *and* **Pastor, Manuel, (2005b:74003)**

Ferrari, Stefania Convergence analysis of a space-time approximation to a two-dimensional system of shallow water equations. (English summary) **2005f:65115**

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Fortin, André *see* **Belhamadia, Youssef et al., 2005k:80013**

Fourestey, Gilles (*with* Moubachir, Marwan) Solving inverse problems involving the Navier-Stokes equations discretized by a Lagrange-Galerkin method. (English summary) **2005g:65135**

Franke, Victoria E. *see* **Sherwin, Spencer J. et al., 2005b:76146**

Fried, Michael Johannes A level set based finite element algorithm for the simulation of dendritic growth. (English summary) **2005c:80010**

Funk, Martin[2] *see* **Picasso, Marco et al., 2005g:86026**

Furtado, Frederico *see* **Abreu, Eduardo et al., 2005k:76126**

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Garcia, E. L. M. *see* **Coutinho, Alvaro L. G. A. et al., 2005b:76083**

Gauthier, Alain (*with* Saleri, Fausto; Veneziani, Alessandro) A fast preconditioner for the incompressible Navier-Stokes equations. (English summary) **2005a:76122**

Girault, Vivette (*with* Glowinski, Roland; Lopez, Hilda) A domain decomposition and mixed method for a linear parabolic boundary value problem. (English summary) **2005h:65159**

Glowinski, Roland (*with* Lapin, S. A.) Solution of a wave equation by a mixed finite element–fictitious domain method. (English summary) **2005i:35159**

— *see also* **Girault, Vivette et al., 2005h:65159**

Gong, Jing (*with* Yang, Xiao Zhong; Li, Qian[1]) Error estimates of nonconforming Wilson element approximation for a nonlinear parabolic problem. (Chinese. English and Chinese summaries) **2005i:65133**

Gormaz, Raúl *see* **Duarte, Fabián et al., 2005f:76065**

Gravemeier, Volker (*with* Wall, Wolfgang A.; Ramm, Ekkehard) A three-level finite element method for the instationary incompressible Navier-Stokes equations. (English summary) **2005b:76086**

Gritzki, Ralf *see* **Knopp, Tobias et al., 2005m:76115**

Groby, Jean-Philippe (*with* Tsogka, Chrysoula) A time domain method for modeling wave propagation phenomena in viscoacoustic media. (English summary) (*see* **2005b:00020**)

Guermond, Jean-Luc *see* **Ern, Alexandre, 2005d:65002**

Gunzburger, Max D. *see* **Bochev, Pavel B. et al., 2005e:65128**

Guo, Ling (*with* Wang, Xiao Li[1]) A characteristic mixed finite element method and numerical simulation for Burgers' equation. (Chinese. English and Chinese summaries) **2005j:65097**

Hansbo, Peter (*with* Hermansson, Joakim; Svedberg, Thomas) Nitsche's method combined with space-time finite elements for ALE fluid-structure interaction problems. (English summary) **2005c:74023**

Hartmann, Ralf (*with* Houston, Paul) Goal-oriented a posteriori error estimation for multiple target functionals. **2005i:35005**

He, Yinnian (*with* Li, Kai Tai) Fully discrete postprocessing Galerkin method for the Navier-Stokes equations. (English summary) **2005d:35201**

— (*with* Miao, Huanling; Mattheij, Robert M. M.; Chen, Zhangxin) Numerical analysis of a modified finite element nonlinear Galerkin method. (English summary) **2005m:65188**

Heinrich, J. C. *see* **Zhao, Pinghua et al., 2005g:80015**

Hermansson, Joakim *see* **Hansbo, Peter et al., 2005c:74023**

Herreros, Maria Isabel *see* **Quecedo, Manuel et al., 2005m:76118**

Hinze, Michael *see* **Deckelnick, Klaus, 2005c:76042**

Hoppe, Ronald H. W. (*with* Nash, Eva) Numerical solution of a nonlinear evolution equation describing amorphous surface growth of thin films. (English summary) (*see* **2005j:65003**)

Horváth, Róbert *see* **Faragó, István et al., 2005j:35011**

Hoteit, H. (*with* Ackerer, Ph.; Mosé, R.) Nuclear waste disposal simulations: Couplex test cases. (English summary) **2005e:76060**

Hou, Thomas Yizhao Multiscale modelling and computation of fluid flow. (English summary) **2005j:76059**

Houston, Paul *see* **Hartmann, Ralf, 2005i:35005**

Iaccarino, Gianluca *see* **Mittal, Rajat, 2005m:76137**

Jayantha, Pasdunkorale A. (*with* Turner, Ian W.) A second order control-volume finite-element least-squares strategy for simulating diffusion in strongly anisotropic media. (English summary) **2005j:74056**

Ji, Guanghua *see* **Chen, Zhi Ming[1], 2005f:65120**

Jiang, Ziwen *see* **Chen, Huan Zhen, 2005d:65154**

John, Volker (*with* Kaya, Songul) A finite element variational multiscale method for the Navier-Stokes equations. (English summary) **2005k:76077**

Johnston, Hans (*with* Liu, Jian-Guo[1]) Accurate, stable and efficient Navier-Stokes solvers based on explicit treatment of the pressure term. (English summary) **2005b:76093**

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Jorge, J. C. *see* **Alonso-Mallo, Isaías et al., 2005e:65134**

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Kaya, Songul *see* **John, Volker, 2005k:76077**

Kessler, Daniel (*with* Nochetto, Ricardo H.; Schmidt, Alfred) A posteriori error control for the Allen-Cahn problem: circumventing Gronwall's inequality. (English summary) **2005e:65132**

King, Belinda B. *see* **Atwell, Jeanne A., 2005m:93028**

Knabner, Peter *see* **Bause, Markus, 2005f:76063**

Knopp, Tobias (*with* Lube, Gert; Gritzki, Ralf; Rösler, Markus) A near-wall strategy for buoyancy-affected turbulent flows using stabilized FEM with applications to indoor air flow simulation. (English summary) **2005m:76115**

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Kröger, Tim (*with* Noelle, Sebastian; Zimmermann, Susanne) On the connection between some Riemann-solver free approaches to the approximation of multi-dimensional systems of hyperbolic conservation laws. (English summary) **2005m:35178**

Kuhnert, Jörg *see* **Tiwari, Sudarshan, 2005f:76077**

Kuzmin, Dmitri (*with* Möller, Matthias; Turek, Stefan) High-resolution FEM-FCT schemes for multidimensional conservation laws. (English summary) **2005f:76067**

— (*with* Möller, Matthias) Algebraic flux correction. I. Scalar conservation laws. (English summary)

— (*with* Möller, Matthias) Algebraic flux correction. II. Compressible Euler equations. (English summary)

— *see also* **Turek, Stefan**

Landau, Luiz *see* **Coutinho, Alvaro L. G. A. et al., 2005b:76083**

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Lazarov, R. D. *see* **Chatzipantelidis, P. et al., 2005g:65122**

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Li, Xiangrong *see* **Remacle, Jean-François et al., 2005h:76057**

Liang, Guo Ping *see* **Ma, Chang Feng et al., 2005g:78023**

Lin, Ping[1] (*with* Chen, Xianqiao; Ong, Ming Tze) Finite element methods based on a new formulation for the non-stationary incompressible Navier-Stokes equations. (English summary) **2005g:76077**

Lin, Yan Ping *see* **Ewing, Richard E. et al., 2005k:76074**

Lintner, M. The eigenvalue problem for the 2D Laplacian in $\mathscr{H}$-matrix arithmetic and application to the heat and wave equation. (English summary) **2005j:65040**

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Liu, Dong *see* **Dong, Suchuan et al., 2005a:76099**

Liu, Jian-Guo[1] *see* **Johnston, Hans, 2005b:76093**

Liu, Ru Xun (*with* Liu, Xiao Ping; Zhang, Lei; Wang, Zhi Feng[1]) Tracking and reconstruction methods for moving-interfaces. (Chinese. English and Chinese summaries) **2005d:65155**

Liu, Tang (*with* Zhang, Pan Ming) Numerical methods for option pricing problems. (Chinese. English and Chinese summaries) **2005h:91114**

Liu, Wen Bin[1] (*with* Ma, He Ping; Tang, Tao; Yan, Ningning) A posteriori error estimates for discontinuous Galerkin time-stepping method for optimal control problems governed by parabolic equations. (English summary) **2005i:49035**

Liu, Wing Kam *see* **Liu, Yaling et al., 2005h:92011**

Liu, Xiao Ping *see* **Liu, Ru Xun et al., 2005d:65155**

Liu, Yaling (*with* Zhang, Lucy; Wang, Xiaodong; Liu, Wing Kam) Coupling of Navier-Stokes equations with protein molecular dynamics and its application to hemodynamics. (English summary) **2005h:92011**
Liu, Zhihong (*with* Wan, Richard; Muldrew, Ken; Sawchuk, Stephen; Rewcastle, John) A level set variational formulation for coupled phase change/mass transfer problems: application to freezing of biological systems. (English summary) **2005b:80007**
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Lu, Tiao (*with* Zhang, Ping Wen; Cai, Wei) Discontinuous Galerkin methods for dispersive and lossy Maxwell's equations and PML boundary conditions. (English summary) **2005e:78025**
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Lukáčová-Medvid'ová, M. (*with* Morton, K. W.; Warnecke, Gerald G.) Finite volume evolution Galerkin methods for hyperbolic systems. (English summary) **2005i:35182**
Luo, Zhen Dong (*with* Zhu, Jiang[3]; Zeng, Qing Cun; Xie, Zheng Hui) Mixed finite element methods for the shallow water equations including current and silt sedimentation. I. The continuous-time case. (Chinese. English and Chinese summaries) **2005a:76102**
— (*with* Zhu, Jiang[3]; Zeng, Qing Cun; Xie, Zheng Hui) Mixed finite element methods for the shallow water equations including current and silt sedimentation. II. The discrete-time case along characteristics. (Chinese. English and Chinese summaries) **2005a:76103**
Ma, Chang Feng (*with* Kang, Tong; Liang, Guo Ping) Finite element error estimates of the $T-\psi$ scheme for eddy current problems based on ungauged electrical vector potential. (Chinese. English summary) **2005g:78023**
Ma, He Ping *see* **Liu, Wen Bin[1] et al., 2005i:49035**
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Michaelis, B. (*with* Rogg, B.) FEM-simulation of laminar flame propagation. I. Two-dimensional flames. (English summary) **2005a:80008**
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Mittal, Rajat (*with* Iaccarino, Gianluca) Immersed boundary methods. **2005m:76137**
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Ohm, Mi-Ray Existence and uniqueness of the solution for linear Stefan problem with a forcing term. (English summary)
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Park, Eun-Jae Mixed finite element methods for generalized Forchheimer flow in porous media. (English summary) **2005i:76075**
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Quarteroni, Alfio (*with* Formaggia, Luca) Mathematical modelling and numerical simulation of the cardiovascular system. **2005f:76119**
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Ram-Mohan, L. Ramdas ★ Finite element and boundary element applications in quantum mechanics. **2005h:81001**
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Reddy, J. N. ★ An introduction to nonlinear finite element analysis. **2005c:65001**
— *see also* **Pontaza, J. P., 2005a:76104**
Reist, Adrian *see* **Picasso, Marco et al., 2005g:86026**
Remacle, Jean-François (*with* Li, Xiangrong; Shephard, Mark S.; Flaherty, Joseph E.) Anisotropic adaptive simulation of transient flows using discontinuous Galerkin methods. (English summary) **2005h:76057**
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Sergienko, Ivan V. (*with* Deĭneka, V. S.) Numerical modeling of the vertical consolidation of water-saturated grounds. (Russian. English summary) **2005j:76087**
— (*with* Deĭneka, V. S.) On a numerical solution of a problem in the dynamic theory of elasticity for bodies with concentrated masses. (Russian. English, Russian and Ukrainian summaries) **2005m:74038**
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Silveira, J. L. (*with* Benhassine, S.; Pichon, L.; Raizer, A.) Transient scattering from metallic enclosures using 3D time domain methods. (English summary) (*see* **2005b:00020**)
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Turek, Stefan (*with* Kuzmin, Dmitri) Algebraic flux correction. III. Incompressible flow problems. (English summary)
— *see also* **Kuzmin, Dmitri et al.**, 2005f:76067 *and* **Ouazzi, Abderrahim**, (2005j:65003)
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Wang, Xiao Li[1] *see* **Guo, Ling**, 2005j:65097
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Zhang, Pan Ming *see* **Liu, Tang**, 2005h:91114
Zhang, Ping Wen *see* **Lu, Tiao et al.**, 2005e:78025
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Zhang, Shu Hua[3] *see* **Ewing, Richard E. et al.**, 2005k:76074
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Bécache, Eliane (*with* Derveaux, Grégoire; Joly, Patrick) An efficient numerical method for the resolution of the Kirchhoff-Love dynamic plate equation. (English summary) **2005m:65230**
Beroš, Ivo (*with* Marušić, Miljenko) Solving parabolic singularly perturbed problems by collocation using tension splines. (English summary) **2005k:65208**
Bui Kien Cuong *see* **Nguyễn Minh Chu'o'ng**, 2005h:65178
Casabán, M. C. (*with* Jódar, Lucas; Ossandón, G. A.) A discrete Fourier method for numerical solution of strongly coupled mixed parabolic systems. (English summary) **2005k:65209**
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— (*with* Saka, Bülent) A cubic B-spline collocation method for the EW equation. (English summary) **2005k:65210**
— (*with* Irk, Dursun; Saka, Bülent) A numerical solution of the Burgers' equation using cubic B-splines. (English summary) **2005k:65211**
— *see also* **Irk, Dursun et al.** *and* **Saka, Bülent et al.**
Danumjaya, P. (*with* Pani, Amiya K.) Orthogonal cubic spline collocation method for the extended Fisher-Kolmogorov equation. (English summary) **2005m:65231**
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— (*with* Du, Dong) Fast Legendre spectral tau approximation for evolutionary problems. (Chinese. English and Chinese summaries) **2005e:65154**
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Irk, Dursun (*with* Saka, Bülent; Dağ, İdris) Cubic spline collocation method for the equal width equation. (English summary)
— *see also* **Dağ, İdris et al.**, 2005e:65153; 2005k:65211 *and* **Saka, Bülent et al.**
Iske, Armin Adaptive irregular sampling in meshfree flow simulation. (English summary) (*see* **2005h:94001**)
Islas, A. L. (*with* Schober, C. M.) Multi-symplectic spectral methods for the sine-Gordon equation. (English summary) (*see* **2005c:00015**)
Jackiewicz, Z. (*with* Welfert, B. D.; Zubik-Kowal, Barbara) Spectral versus pseudospectral solutions of the wave equation by waveform relaxation methods. (English summary) **2005d:65172**
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Šarler, B. (*with* Kovačević, Igor; Chen, Ching Shyang) A mesh-free solution of temperature in direct-chill cast slabs and billets. (English summary) (*see* **2005b:65003**)
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Semin, L. G. (*with* Shapeev, V. P.; Cherepanov, A. N.; Cherepanova, V. K.; Igumenov, I. K.; Mikheev, A. N.) Collocation and least-squares method for numerical modeling of sublimation processes of metal β-diketonates. (English summary) (*see* **2005i:65006**)
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Bao, Weizhu (*with* Du, Qiang) Computing the ground state solution of Bose-Einstein condensates by a normalized gradient flow. (English summary) **2005f:82117**
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— *see also* **Bao, Weizhu, 2005f:82117**
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— (*with* Pareschi, Lorenzo; Toscani, Giuseppe) Accurate numerical methods for the collisional motion of (heated) granular flows. (English summary) **2005g:82122**
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Fructus, Dorian (*with* Clamond, Didier; Grue, John; Kristiansen, Øyvind) An efficient model for three-dimensional surface wave simulations. I. Free space problems. (English summary) **2005k:76016**
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Hoppe, Ronald H. W. (*with* Nash, Eva) Numerical solution of a nonlinear evolution equation describing amorphous surface growth of thin films. (English summary) (*see* **2005j:65003**)
Kalisch, Henrik (*with* Lenells, Jonatan) Numerical study of traveling-wave solutions for the Camassa-Holm equation. (English summary)
— *see also* **Bona, Jerry L., 2005j:35192**
Kantur, Olga (*with* Tsybulin, Vyacheslav) Numerical study of convection of multi-component fluid in porous medium. (English summary) (*see* **2005j:65003**)
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Šarler, B. A radial basis function collocation approach in computational fluid dynamics. (English summary)
Seaïd, Mohammed (*with* Klar, Axel) Efficient preconditioning of linear systems arising from the discretization of radiative transfer equation. (English summary) (*see* **2005a:65001**)
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Wang, He Yuan (*with* Li, Kai Tai) Numerical simulation of spherical Couette flow. (English summary) **2005e:76034**
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Crann, D. *see* **Davies, Alan J., (2005d:65006)**
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Davies, Alan J. (*with* Crann, D.) The Laplace transform boundary element methods for diffusion problems with periodic boundary conditions. (English summary) (*see* **2005d:65006**)
— (*with* Honnor, M. E.; Kane, S. J.) A boundary element method for phase change problems. (English summary) (*see* **2005b:65003**)
— *see also* **Kane, S. J. et al., (2005d:65006)**
Deckelnick, Klaus (*with* Dziuk, Gerhard; Elliott, Charles M.) Error analysis of a semidiscrete numerical scheme for diffusion in axially symmetric surfaces. (English summary) **2005a:65109**
Diaz, Julien (*with* Joly, Patrick) Stabilized perfectly matched layer for advective acoustics. (*see* **2005b:00020**)
Du, Hua Dong *see* **Huang, Si Xun et al.**
Dutta, Srabasti (*with* Glimm, James; Grove, John W.; Sharp, David H.; Zhang, Yin[1]) A fast algorithm for moving interface problems. (English summary) (*see* **2005g:65009**)
Dziuk, Gerhard *see* **Deckelnick, Klaus et al., 2005a:65109**
El-Danaf, Talaat S. (*with* Ramadan, Mohamed A.; Abd Alaal, Faisal E. I.) The use of Adomian decomposition method for solving the regularized long-wave equation. (English summary) **2005m:65234**
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Huang, Si Xun (*with* Du, Hua Dong; Han, Wei) Generalized variational data assimilation method and numerical experiment for non-differential system. (Chinese. English and Chinese summaries)
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Inc, Mustafa On numerical solutions of partial differential equations by the decomposition method. (English summary) **2005k:65212**
— (*with* Cherruault, Yves; Abbaoui, K.) A computational approach to the wave equations: an application of the decomposition method. (English summary) **2005i:65154**
Ismail, Hassan N. A. (*with* Raslan, K. R.; Rabboh, Aziza A. Abd) Adomian decomposition method for Burger's-Huxley and Burger's-Fisher equations. (English summary) **2005f:65136**
Iwasaki, Hiroshi (*with* Ohara, Katsuyoshi; Omata, Seiro; Zhou, Tianshou) Numerical computations for interfaces motion related to a triple potential well problem. (English summary)
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— *see also* **Davies, Alan J. et al., (2005b:65003)**
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— *see also* **Al-Khaled, Kamel et al.**
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— *see also* **Zong, Z.**
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— *see also* **Wu, Yong-yan et al., 2005h:65182**
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— *see also* **Vera, S. A. et al.**

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— (*with* Liu, Hailiang; Osher, Stanley; Tsai, Yen-Hsi Richard) Computing multivalued physical observables for the semiclassical limit of the Schrödinger equation. (English summary) **2005m:81106**

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— (*with* Lin, Chien-Nan; Wang, Jiun-Shen) Numerical solutions for the hyperbolic heat conduction problems in a layered solid cylinder with radiation surface. (English summary) **2005k:80015**

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Nakamura, N. *see* **Kanoh, M. et al., (2005d:65006)**

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Nogueira, J. R. (*with* Cunha, M. C.) Simulation of oil recovery using water bank injection. (Portuguese. Portuguese summary) **2005e:76082**

Okuzono, H. *see* **Kanoh, M. et al., (2005d:65006)**

Omari Alaoui, Elkebir *see* **Cherkaoui Malki, Mohammed Ouçamah, 2005i:76066**

Oñate, Eugenio Possibilities of finite calculus in computational mechanics. (English summary) **2005b:74120**

Ortiz, Michael *see* **Lew, Adrian et al., 2005g:74054**

Osher, Stanley *see* **Jin, Shi et al., 2005e:35152** *and* **2005m:81106**

Pankov, A. A. *see* **Efendiev, Yalchin R., 2005a:76129**

Pareschi, Lorenzo *see* **Mouhot, Clément, 2005b:82087**

Patnaik, Gopal (*with* Boris, Jay P.; Grinstein, Fernando F.; Iselin, John P.) Large scale urban simulations with FCT. (English summary)

Peratta, Andrés (*with* Popov, Viktor) Numerical stability of the BEM for advection-diffusion problems. (English summary) **2005b:76091**

Perthame, Benoît Kinetic formulations of parabolic and hyperbolic PDEs: from theory to numerics. **2005h:35032**

van der Pijl, Sander P. (*with* Segal, August; Vuik, C.) Modeling of multi-phase flows with a level-set method. (English summary) (*see* **2005j:65003**)

Popov, Viktor *see* **Peratta, Andrés, 2005b:76091**

Popovich, V. S. *see* **P'yanilo, Ya. D. et al.**

Preußer, Tobias *see* **Mikula, Karol et al., 2005f:94011**

P'yanilo, A. Ya. *see* **P'yanilo, Ya. D. et al.**

P'yanilo, Ya. D. (*with* Popovich, V. S.; P'yanilo, A. Ya.) An iterative scheme for solving nonlinear boundary value problems of nonstationary heat conduction type. (Ukrainian. English, Russian and Ukrainian summaries)

Qamar, Shamsul *see* **Dreyer, Wolfgang, 2005b:80015** *and* **Kunik, Matthias et al., 2005c:76072**

Qin, R. S. *see* **Heyes, D. M. et al., 2005b:76104**

Quinlan, Nathan *see* **Lastiwka, Martin et al.**

Rahman, Matiur *see* **Mousavizadegan, S. H., 2005g:76081**

Rahmouni, Adib N. Un modèle PML bien posé pour l'élastodynamique anisotrope. (English and French summaries) [A well-posed PML model for anisotropic elastodynamics] **2005a:74041**

— An algebraic method to develop well-posed PML models. Absorbing layers, perfectly matched layers, linearized Euler equations. (English summary) **2005a:76124**

Ramos, J. I. A piecewise-analytical method for singularly perturbed parabolic problems. (English summary)

— An exponentially-fitted method for singularly perturbed, one-dimensional, parabolic problems. (English summary)

— An exponentially-fitted method for singularly-perturbed ordinary differential equations with turning points and parabolic problems. (English summary) **2005m:65157**

Rangelov, Tsvyatko V. *see* **Dineva, P. S. et al., (2005d:65006)**

Ray, Santanu Saha (*with* Bera, Rasajit Kumar) Application of Adomian method on the elastic wave propagation in a semi-infinite elastic rod of randomly varying cross section. (English summary)

Reitich, Fernando High-order domain variations in boundary value and free boundary problems. (English summary) **2005f:35336**

Ren, Weiqing (*with* E, Wei-nan) Heterogeneous multiscale method for the modeling of complex fluids and micro-fluidics. (English summary) **2005j:76068**

Roe, Philip L. *see* **Hittinger, Jeffrey A. F., 2005f:35193**

Rougemont, Jacques *see* **Lord, Gabriel J., 2005b:37190**

Ruan, J. W. *see* **Young, Der-Liang, 2005k:78009**

Rumpf, Martin *see* **Mikula, Karol et al., 2005f:94011**

Ruuth, Steven J. (*with* Wetton, Brian T. R.) A simple scheme for volume-preserving motion by mean curvature. (English summary) **2005e:53105**

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Sakai, Katsuhiro (*with* Kimura, Isao) A numerical scheme based on a solution of nonlinear advection-diffusion equations. (English summary)

Saley, Bisso (*with* Some, Blaise) Résolution numérique de contrôle optimal d'un modèle de diffusion. (French summary) [Numerical solution of the optimal control problem for a diffusion model] **2005m:49053**

Sayouri, Salaheddine *see* **Cherkaoui Malki, Mohammed Ouçamah, 2005i:76065**

Scardovelli, Ruben *see* **Aulisa, Eugenio et al., 2005a:76117**

Schlatter, P. (*with* Adams, Nikolaus A.; Kleiser, L.) A windowing method for periodic inflow/outflow boundary treatment of non-periodic flows. (English summary) **2005k:76102**

Segal, August *see* **van der Pijl, Sander P. et al., (2005j:65003)**

Sethian, J. A. *see* **Malladi, Ravikanth, (2005a:92002)**

Sirisup, Sirod (*with* Karniadakis, George Em; Xiu, Dongbin; Kevrekidis, Ioannis G.) Equation-free/Galerkin-free POD-assisted computation of incompressible flows. (English summary) **2005m:76139**

Slodička, Marián (*with* Baňas, Ľubomír) A numerical scheme for Maxwell-Landau-Lifshitz-Gilbert system. (English summary)
— *see also* **Cimrák, Ivan**, **2005d:78017**
Some, Blaise *see* **Saley, Bisso**, **2005m:49053**
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Vanderborght, J. *see* **Suciu, N. et al.**
Vande Voorde, John (*with* Vierendeels, Jan; Dick, Erik) Flow simulations in rotary volumetric pumps and compressors with the fictitious domain method. (English summary)
Vatsala, A. S. (*with* Yang, Jie) Generalized quasilinearization method for reaction diffusion equation with numerical applications. (English summary) (*see* **2005m:00011**)
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Yakimov, A. S. *see* **Grishin, A. M.**, (**2005i:65006**)
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Young, Der-Liang (*with* Ruan, J. W.) Method of fundamental solutions for scattering problems of electromagnetic waves. (English summary) **2005k:78009**
Yuan, Gui Qiu *see* **Bian, Bao Jun et al.**
Zemlyanaya, E. V. (*with* Barashenkov, I. V.) Numerical investigation of multisoliton complexes in the nonlinear Schrödinger equation with dissipation and excitation. (Russian. English and Russian summaries)
— (*with* Barashenkov, I. V.) Numerical analysis of traveling solitons in the nonlinear Schrödinger equation with parametric excitation and dissipation. (Russian. English and Russian summaries)
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Zhong, Ning[1] *see* **Weihrauch, Klaus**, **2005k:03104**
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Liu, Wing Kam *see* **Li, Shaofan**, **2005i:65001**
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Rider, William *see* **Drikakis, Dimitris**, **2005k:76001**
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Achdou, Yves (*with* Bernardi, Christine; Coquel, Frédéric) A priori and a posteriori analysis of finite volume discretizations of Darcy's equations. (English summary) **2005d:65179**
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Allen, Kevin P. (*with* Gobbert, Matthias K.) Coarse-grained parallel matrix-free solution of a three-dimensional elliptic prototype problem. (English summary) (*see* **2005g:65009**)
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Al'shina, E. A. *see* **Al'shin, A. B. et al.**, **2005d:65180**
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Atluri, Satya N. (*with* Han, Z. D.; Rajendran, A. M.) A new implementation of the meshless finite volume method, through the MLPG "mixed" approach. (English summary)
Axelsson, Axel Ove Holger (*with* Gololobov, S. V.) A combined method of local Green's functions and central difference method for singularly perturbed convection-diffusion problems. (English summary) **2005d:65181**
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Bertolazzi, Enrico (*with* Manzini, Gianmarco) Least square-based finite volumes for solving the advection-diffusion of contaminants in porous media. (English summary)
— (*with* Manzini, Gianmarco) A cell-centered second-order accurate finite volume method for convection-diffusion problems on unstructured meshes. (English summary) **2005e:65162**
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Bubyakin, A. A. (*with* Laevskiĭ, Yu. M.) On a high-order accuracy variational-difference scheme for the solution to the 3D Poisson equation. (*see* **2005i:65006**)
Bucchignani, Edoardo (*with* Stella, Fulvio; Paglia, Fabio) A partition method for the solution of a coupled liquid-structure interaction problem. (English summary)
Carmona, Ángeles *see* **Bendito, Enrique et al.**, **2005g:65156**
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Delgado, Vladimir (*with* Kasperski, Guillaume; Labrosse, Gérard) Spectrally accurate numerical incompressible flows with deformed boundaries: a finite volume preconditioning method. (English summary)
Djadel, K. (*with* Nicaise, Serge) Some refined finite volume element methods for the Stokes and Navier-Stokes systems with corner singularities. (English summary) **2005i:65162**
Dosiev, Anar A. A high accuracy difference-analytical method for solving Laplace's boundary value problem with singularities. (English summary) (*see* **2005i:65006**)
— The high accurate block-grid method for solving Laplace's boundary value problem with singularities. (English summary) **2005e:65163**
— *see also* **Volkov, E. A. et al.**
Dumett, Miguel A. (*with* Keener, James P.) An immersed interface method for solving anisotropic elliptic boundary value problems in three dimensions. (English summary) **2005g:65157**
— (*with* Keener, James P.) An immersed interface method for anisotropic elliptic problems on irregular domains in 2D. (English summary) **2005j:65125**
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Encinas, Andrés M. *see* **Bendito, Enrique et al.**, **2005g:65156**
Eymard, Robert (*with* Herbin, Raphaèle) A finite volume scheme on general meshes for the steady Navier-Stokes equations in two space dimensions. (English summary) (*see* **2005j:65003**)
— (*with* Gallouët, Thierry; Herbin, Raphaèle) A finite volume scheme for anisotropic diffusion problems. (English and French summaries)
Farrell, P. A. *see* **Shishkin, Grigorii I. et al.**, (**2005c:65004**)
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Guidetti, Davide (*with* Piskarëv, S. I.) On real interpolation, finite differences, and estimates depending on a parameter for discretizations of elliptic boundary value problems. **2005d:65183**

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Hubert, Florence *see* **Andreyanov, Boris P. et al.**, 2005j:65123
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Li, Yiming (*with* Yu, Shao-Ming) A parallel adaptive finite volume method for nanoscale double-gate MOSFETs simulation. (English summary)
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Li, Zhi Lin[1] (*with* Wang, Wei-Cheng; Chern, I-Liang; Lai, Ming-Chih) New formulations for interface problems in polar coordinates. (English summary) **2005e:65167**
Limić, Nedžad (*with* Rogina, Mladen) Numerical solutions of Dirichlet problem for elliptic operator in divergence form with a right-hand side measure. (English summary) **2005a:65114**
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Long, Xiao Han (*with* Bi, Chun-jia) Uniform convergence for finite volume element method for non-selfadjoint and indefinite elliptic problems. (English summary) **2005k:65218**
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Polyakov, S. V. A numerical method for simulation of nonlinear electron transport in a quantum wire. (English summary) (*see* **2005c:65004**)
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Rutka, V. (*with* Wiegmann, A.) A fast finite difference method for elliptic PDEs in domains with non-grid aligned boundaries with application to 3D linear elasticity. (English summary) (*see* **2005a:00022**)
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— *see also* **Matus, Petr P.**, 2005j:65126
Samarskiĭ, Aleksandr Andreevich (*with* Vabishchevich, Petr N.) Difference methods for solving mathematical physics problems on unstructured grids. (English summary) (*see* **2005c:65004**)
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Shishkin, Grigorii I. (*with* Farrell, P. A.; Hegarty, Alan F.; Miller, J. J. H.; O'Riordan, Eugene) On Reynolds-uniform numerical methods, in parabolic boundary layer regions, for Prandtl's problems. (English summary) (*see* **2005c:65004**)
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Siriwardana, N. (*with* Schultz, David H.) A high order method to solve the steady state Navier Stokes equations. (English summary)
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Volkov, E. A. The method of composite grids on a prism with an arbitrary polygonal base. (Russian. Russian summary) **2005i:65163**
— (*with* Dosiev, Anar A.; Bozer, M.) A composite grid method of increased accuracy. (Russian)
Wackers, Jeroen A nested-grid direct Poisson solver for concentrated source terms. (English summary) **2005m:65243**
Wang, Song[1] (*with* Angermann, Lutz) On convergence of the exponentially fitted finite volume method with an anisotropic mesh refinement for a singularly perturbed convection-diffusion equation. (English summary) **2005d:65185**
Wang, Tong Ke A mixed finite volume element method based on rectangular mesh for biharmonic equations. (English summary) **2005h:65190**
— A class of upwind finite volume schemes for one-dimensional steady convection-dominated diffusion equations. (English and Chinese summaries) **2005i:65164**
Wang, Wei-Cheng A jump condition capturing finite difference scheme for elliptic interface problems. (English summary) **2005i:65165**
— *see also* **Li, Zhi Lin[1] et al.**, 2005e:65167
Wang, Zheng[1] (*with* Huang, Zi Ping) Finite volume method for elliptic problems for domains with corners. (Chinese. English and Chinese summaries)
Wiegmann, A. *see* **Rutka, V.**, (2005a:00022)
Yu, Shao-Ming *see* **Li, Yiming**
Zhao, Hong-Kai A fast sweeping method for eikonal equations. (English summary) **2005k:65222**

Items with secondary classifications in 65N06

Albarreal Núñez, Isidoro I. *see* **Galo, José R. et al.**
Aliyev, Hamza F. (*with* Imranov, Fariz B.) On convergence of lines method at approximate solution of one partial differential equation of elliptic type. (English summary) **2005h:65231**
Anderson, Dale A. *see* **Liao, Guojun et al.**, 2005m:65297
Andreeva, E. M. *see* **Muratova, G. V.**, (2005i:65006)
Asaithambi, Asai A second-order finite-difference method for the Falkner-Skan equation. (English summary)
Ashyralyev, Allaberen (*with* Sobolevskii, Pavel E.) ★ New difference schemes for partial differential equations. **2005g:65003**
Barad, Michael (*with* Colella, Phillip) A fourth-order accurate local refinement method for Poisson's equation. (English summary) **2005m:65295**
Bergam, A. (*with* Mghazli, Zoubida; Verfürth, Rüdiger) Estimations a posteriori d'un schéma de volumes finis pour un problème non linéaire. (English and French summaries) [A posteriori estimates for a finite-volume scheme for a nonlinear problem] **2005d:65189**
Blanc, Philippe (*with* Eymard, Robert; Herbin, Raphaèle) An error estimate for finite volume methods for the Stokes equations on equilateral triangular meshes. (English summary) **2005k:65227**
Boglaev, Igor (*with* Duoba, Vic) Iterative domain decomposition algorithms for a convection-diffusion problem. (English summary) **2005d:65227**
— A block monotone domain decomposition algorithm for a semilinear convection-diffusion problem. (English summary) **2005i:65205**
Buongiorno Nardelli, Marco *see* **Fattebert, Jean-Luc**, (2005c:81001)
Burchard, P. *see* **Tsai, Yen-Hsi Richard et al.**, 2005c:35040
Caflisch, Russel E. *see* **Gibou, Frédéric et al.**, 2005d:80005
Calzada Canalejo, M. Carmen *see* **Galo, José R. et al.**
Cautrès, René (*with* Herbin, Raphaèle; Hubert, Florence) The Lions domain decomposition algorithm on non-matching cell-centred finite volume meshes. (English summary) **2005j:65164**

Chapwanya, M. (*with* O'Brien, Stephen B. G.) Corner and start-up singularities in porous flow. (English summary) **2005g:76115**
Chen, Chi-fang *see* **Sheu, Tony W. H. et al.**
Chen, Xiao Jun[1] Finite difference smoothing solutions of nonsmooth constrained optimal control problems. (English summary) **2005k:49093**
Cheng, Li-Tien *see* **Tsai, Yen-Hsi Richard et al., 2005c:35040**
Chigerev, E. N. *see* **Tolstykh, Andrei I. et al., (2005b:76005)**
Cival, S. *see* **Dosiev, Anar A.**
Colella, Phillip *see* **Barad, Michael, 2005m:65295**
Cruz Soto, José Luis *see* **Galo, José R. et al.**
Czernous, Wojciech Approximate solutions of mixed problems for first order partial differential equations with deviated variables. (English summary) **2005k:35041**
Deckelnick, Klaus (*with* Elliott, Charles M.) Uniqueness and error analysis for Hamilton-Jacobi equations with discontinuities. (English summary) **2005h:35035**
Dosiev, Anar A. (*with* Cival, S.) A combined method for solving Laplace's boundary value problem with singularities. (English summary)
Dubas, Saeed M. (*with* Osman, Atif; Schultz, David H.) Numerical studies of steady, viscous, incompressible flow in a channel with a step. (English summary)
Duoba, Vic *see* **Boglaev, Igor, 2005d:65227**
Elliott, Charles M. *see* **Deckelnick, Klaus, 2005h:35035**
Eymard, Robert (*with* Gallouët, Thierry; Vovelle, Julien) Limit boundary conditions for finite volume approximations of some physical problems. (English summary) **2005k:76083**
— *see also* **Blanc, Philippe et al., 2005k:65227**
Fattebert, Jean-Luc (*with* Buongiorno Nardelli, Marco) Finite difference methods for ab initio electronic structure and quantum transport calculations of nanostructures. (*see* **2005c:81001**)
Fedkiw, Ronald *see* **Gibou, Frédéric et al., 2005d:80005**
Ferdigalov, L. Yu. Numerical solution of the equation of motion of an ideal fluid whose vorticity is proportional to the flow function. (Russian. English and Ukrainian summaries)
Fernández Cara, Enrique *see* **Galo, José R. et al.**
Filippychev, D. S. Using condensing grids to simulate an electron-beam relativistic amplifier in a cylindrical waveguide with a plasma-dielectric filling. (English summary) **2005b:78024**
Frohn-Schauf, Claudia (*with* Henn, Stefan; Witsch, Kristian) Nonlinear multigrid methods for total variation image denoising. (English summary) **2005f:94007**
Gallouët, Thierry *see* **Eymard, Robert et al., 2005k:76083**
Galo, José R. (*with* Albarreal Núñez, Isidoro I.; Calzada Canalejo, M. Carmen; Cruz Soto, José Luis; Fernández Cara, Enrique; Marín Beltrán, Mercedes) Simultaneous directions parallel methods for elliptic and parabolic systems. (English and French summaries)
Gao, Zhi (*with* Yang, Guowei) Perturbation finite volume method for convective-diffusion integral equation. (English summary)
Gibou, Frédéric (*with* Fedkiw, Ronald; Caflisch, Russel E.; Osher, Stanley) A level set approach for the numerical simulation of dendritic growth. (English summary) **2005d:80005**
Guessous, Nagib (*with* Souhar, O.) Recursive two-level ILU preconditioner for nonsymmetric M-matrices. (English summary) **2005k:65063**
Gur′eva, Ya. L. (*with* Il′in, Valeriĭ Pavlovich) On the numerical solution of three-dimensional diffusion-convective boundary value problems. (Russian. Russian summary) **2005a:65120**
Henn, Stefan *see* **Frohn-Schauf, Claudia et al., 2005f:94007**
Herbin, Raphaèle *see* **Cautrès, René et al., 2005j:65164** *and* **Blanc, Philippe et al., 2005k:65227**
Hommel, Angela On finite difference potentials. (English summary) **2005e:39053**
Hsieh, L. W. *see* **Sheu, Tony W. H. et al.**
Hubert, Florence *see* **Cautrès, René et al., 2005j:65164**
Il′in, Valeriĭ Pavlovich *see* **Gur′eva, Ya. L., 2005a:65120**
Imranov, Fariz B. *see* **Aliyev, Hamza F., 2005h:65231**
Jakobsen, Espen Robstad On error bounds for approximation schemes for non-convex degenerate elliptic equations. (English summary) **2005e:65174**
Kumar, Harish *see* **Sekhar, T. V. S. et al., 2005i:76128**
Kwak, D. Y. (*with* Lee, Jun S.) Multigrid algorithm for the cell-centered finite difference method. II. Discontinuous coefficient case. (English summary) **2005j:65166**
Lee, Jun S. *see* **Kwak, D. Y., 2005j:65166**
Lee, Zong-Yi Hybrid numerical method applied to 3-D multilayered hollow cylinder with periodic loading conditions. (English summary)
Lei, Zhong *see* **Liao, Guojun et al., 2005m:65297**
Liandrat, Jacques *see* **Piquemal, Anne-Sophie, 2005j:65073**
Liao, Guojun (*with* Su, Jianzhong; Lei, Zhong; de la Pena, Gary C.; Anderson, Dale A.) A moving finite difference method for partial differential equations. (English summary) **2005m:65297**
Lipavskii, M. V. *see* **Tolstykh, Andrei I. et al., (2005b:76005)**
Loubère, Raphaël (*with* Shashkov, M. Yu.) A subcell remapping method on staggered polygonal grids for arbitrary-Lagrangian-Eulerian methods. (English summary) **2005k:76099**
Lu, Xin[1] *see* **Pao, C. V., 2005d:65197**
Marín Beltrán, Mercedes *see* **Galo, José R. et al.**
Mghazli, Zoubida *see* **Bergam, A. et al., 2005d:65189**
Muratova, G. V. (*with* Andreeva, E. M.) Solution of convection-diffusion problem by multigrid method with different smoothers. (English summary) (*see* **2005i:65006**)
O'Brien, Stephen B. G. *see* **Chapwanya, M., 2005g:76115**
Osher, Stanley *see* **Tsai, Yen-Hsi Richard et al., 2005c:35040** *and* **Gibou, Frédéric et al., 2005d:80005**
Osman, Atif *see* **Dubas, Saeed M. et al.**
Pao, C. V. (*with* Lu, Xin[1]) Block monotone iterations for numerical solutions of fourth-order nonlinear elliptic boundary value problems. (English summary) **2005d:65197**
de la Pena, Gary C. *see* **Liao, Guojun et al., 2005m:65297**
Piquemal, Anne-Sophie (*with* Liandrat, Jacques) A new wavelet preconditioner for finite difference operators. (English summary) **2005j:65073**
Qin, Meng Zhao *see* **Sun, Ya-juan, 2005b:37201**
Rabinovich, Vladimir S. Limiting absorption principle for a class of difference equations. (English summary) **2005g:47063**
Salem, Salem A. Numerical simulations for the contraction flow using grid generation. (English summary) **2005c:76069**
Sapiro, Guillermo R. *see* **Tsai, Yen-Hsi Richard et al., 2005c:35040**
Schultz, David H. *see* **Dubas, Saeed M. et al.**
Sekhar, T. V. S. (*with* Sivakumar, R.; Kumar, Harish) Numerical study of the steady flow past a sphere in an aligned magnetic field. (English summary) **2005i:76128**
Shashkov, M. Yu. *see* **Loubère, Raphaël, 2005k:76099**
Sheu, Tony W. H. (*with* Chen, Chi-fang; Hsieh, L. W.) A highly accurate Helmholtz scheme for modeling scattering wave. (English summary)
Shirobokov, D. A. *see* **Tolstykh, Andrei I., 2005j:41017**
Shishkin, Grigorii I. Grid approximation of improved convergence order for a singularly perturbed elliptic convection-diffusion equation. (English summary) **2005f:35017**
Sivakumar, R. *see* **Sekhar, T. V. S. et al., 2005i:76128**
Sobolevskii, Pavel E. *see* **Ashyralyev, Allaberen, 2005g:65003**
Souhar, O. *see* **Guessous, Nagib, 2005k:65063**
Strikwerda, John C. ★ Finite difference schemes and partial differential equations. **2005i:65004**
Su, Jianzhong *see* **Liao, Guojun et al., 2005m:65297**
Sun, Ya-juan (*with* Qin, Meng Zhao) A multi-symplectic scheme for RLW equation. (English summary) **2005b:37201**
Tam, Christopher K. W. Computational aeroacoustics: an overview of computational challenges and applications. (English summary) **2005b:76124**
Tolstykh, Andrei I. (*with* Lipavskii, M. V.; Chigerev, E. N.) On arbitrary-order schemes for parallel CFD calculations. (English summary) (*see* **2005b:76005**)
— (*with* Shirobokov, D. A.) Using radial basis function in a "finite difference mode". (English summary) **2005j:41017**
Tsai, Yen-Hsi Richard (*with* Cheng, Li-Tien; Osher, Stanley; Burchard, P.; Sapiro, Guillermo R.) Visibility and its dynamics in a PDE based implicit framework. (English summary) **2005c:35040**
Verfürth, Rüdiger *see* **Bergam, A. et al., 2005d:65189**
Vovelle, Julien *see* **Eymard, Robert et al., 2005k:76083**
Witsch, Kristian *see* **Frohn-Schauf, Claudia et al., 2005f:94007**
Yang, Guowei *see* **Gao, Zhi**

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Ansorge, Rainer Convergence of discretization procedures for problems whose entropy solutions are uniquely characterized by additional relations. (English summary) **2005e:65169**
Asllanaj, Fatmir (*with* Jeandel, Gerard; Roche, Jean Rodolphe) Convergence of a numerical scheme for a nonlinear coupled system of radiative-conductive heat transfer equations. (English summary) **2005g:65158**
Bochev, Pavel B. (*with* Robinson, Allen C.) Matching algorithms with physics: exact sequences of finite element spaces. (*see* **2005h:65004**)
— (*with* Gunzburger, Max D.) An absolutely stable pressure-Poisson stabilized finite element method for the Stokes equations. (English summary) **2005k:65223**
Burman, Erik (*with* Hansbo, Peter) Edge stabilization for Galerkin approximations of convection-diffusion-reaction problems. (English summary) **2005d:65186**
Chen, Goong (*with* Englert, Berthold-Georg; Zhou, Jianxin) Convergence analysis of an optimal scaling algorithm for semilinear elliptic boundary value problems. (English summary) **2005j:65127**
Dahmen, Wolfgang (*with* Faermann, B.; Graham, I. G.; Hackbusch, Wolfgang; Sauter, Stefan) Inverse inequalities on non-quasi-uniform meshes and application to the mortar element method. (English summary) **2005d:65187**
Droniou, Jérôme (*with* Gallouët, Thierry; Herbin, Raphaèle) A finite volume scheme for a noncoercive elliptic equation with measure data. (English summary) **2005b:65117**
E, Wei-nan (*with* Ming, Ping-bing) Analysis of multiscale methods. (English summary) **2005d:65188**
Englert, Berthold-Georg *see* **Chen, Goong et al., 2005j:65127**
Faermann, B. *see* **Dahmen, Wolfgang et al., 2005d:65187**
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Gallouët, Thierry *see* **Droniou, Jérôme et al., 2005b:65117**
Graham, I. G. *see* **Dahmen, Wolfgang et al., 2005d:65187**
Gunzburger, Max D. The inf-sup condition in mixed finite element methods with application to the Stokes system. (*see* **2005h:65004**)
— *see also* **Bochev, Pavel B., 2005k:65223**
Hackbusch, Wolfgang *see* **Dahmen, Wolfgang et al., 2005d:65187**
Hansbo, Peter *see* **Burman, Erik, 2005d:65186**
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Ming, Ping-bing *see* **E, Wei-nan, 2005d:65188**
Ohe, Takashi (*with* Ohnaka, Kohzaburo) Uniqueness and convergence of numerical solution of the Cauchy problem for the Laplace equation by a charge simulation method. (English summary) **2005e:65170**
Ohnaka, Kohzaburo *see* **Ohe, Takashi, 2005e:65170**
Robinson, Allen C. *see* **Bochev, Pavel B., (2005h:65004)**
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Sauter, Stefan *see* **Dahmen, Wolfgang et al., 2005d:65187**
Schwab, Christoph *see* **Wihler, Thomas P. et al., 2005e:65171**
Smyrlis, Yiorgos-Sokratis (*with* Karageorghis, Andreas) Numerical analysis of the MFS for certain harmonic problems. (English summary) **2005k:65224**
Steinbach, Olaf ★ Stability estimates for hybrid coupled domain decomposition methods. **2005a:65116**
Wihler, Thomas P. (*with* Frauenfelder, Philipp; Schwab, Christoph) Exponential convergence of the hp-DGFEM for diffusion problems. (English summary) **2005e:65171**
Zhou, Jianxin *see* **Chen, Goong et al., 2005j:65127**

Items listed otherwise than by author

Lecture Notes in Mathematics *see* **Steinbach, Olaf. 2005a:65116**

Items with secondary classifications in 65N12

Al'shin, A. B. (*with* Al'shina, E. A.; Kalitkin, N. N.) Numerical solution of hyperbolic problems in an unbounded domain. (Russian. English and Russian summaries) **2005d:65180**

Al'shina, E. A. *see* **Al'shin, A. B. et al., 2005d:65180**

Amara, Mohamed (*with* Chacón-Vera, Eliseo; Trujillo, David) Vorticity-velocity-pressure formulation for Stokes problem. (English summary) **2005d:65201**

Andreev, A. B. Superclose property and application for fourth-order eigenvalue problems. (English summary) **2005h:65199**

Angermann, Lutz *see* **Wang, Song[1], 2005d:65185**

Barbeiro, S. (*with* Ferreira, José Augusto Mendes) A superconvergent linear FE approximation for the solution of an elliptic system of PDEs. (English summary) **2005m:65254**

Becker, Roland (*with* Braack, Malte) A two-level stabilization scheme for the Navier-Stokes equations. (English summary) **2005k:65236**

Ben Belgacem, Faker A stabilized domain decomposition method with nonmatching grids for the Stokes problem in three dimensions. (English summary) **2005i:65176**

Bernardi, Christine (*with* Chacón-Rebollo, Tomás; Gómez Mármol, M.; Lewandowski, Roger; Murat, François) A model for two coupled turbulent fluids. III. Numerical approximation by finite elements. (English summary) **2005g:76074**

Bi, Chun-jia *see* **Long, Xiao Han, 2005k:65218**

Bialecki, Bernard (*with* Ganesh, Mahadevan; Mustapha, K.) A Petrov-Galerkin method with quadrature for elliptic boundary value problems. (English summary) **2005a:65127**

Binev, Petăr G. (*with* Dahmen, Wolfgang; DeVore, Ronald) Adaptive finite element methods with convergence rates. (English summary) **2005d:65222**

Boroomand, B. (*with* Tabatabaei, A. A.; Oñate, Eugenio) Simple modifications for stabilization of the finite point method. (English summary) **2005k:74033**

Boulbrachene, Messaoud (*with* Chentouf, Boumediène) The finite element approximation of Hamilton-Jacobi-Bellman equations: the noncoercive case. (English summary) **2005k:49092**

Bożek, Bogusław Discretization of the stationary distribution of heat in the non-homogeneous body. (English summary) **2005h:35066**

Braack, Malte *see* **Becker, Roland, 2005k:65236**

Chacón-Rebollo, Tomás *see* **Bernardi, Christine et al., 2005g:76074**

Chacón-Vera, Eliseo *see* **Amara, Mohamed et al., 2005d:65201**

Chandler-Wilde, Simon N. (*with* Langdon, Stephen; Ritter, Lars) A high-wavenumber boundary-element method for an acoustic scattering problem. (English summary) **2005e:65181**

Chen, Chuan Miao Orthogonality correction technique in superconvergence analysis. (English summary) **2005i:65183**

Chen, Hongsen Interior superconvergence of finite element solutions for Stokes problems by local L^2 projections. (English summary) **2005e:65182**

Chen, Shao Chun (*with* Shi, Dong Yang; Ren, Guo-biao) Three dimension quasi-Wilson element for flat hexahedron meshes. (English summary) **2005c:65099**

— (*with* Zhao, Yong-cheng; Shi, Dong Yang) Non C^0 nonconforming elements for elliptic fourth order singular perturbation problem. (English summary) **2005k:65244**

Chen, Wen Bin (*with* Lin, Hao-min; Huang, Jian Guo) Some superconvergence results for the covolume method for non-selfadjoint and indefinite elliptic problems. (English and Chinese summaries) **2005f:65146**

Chentouf, Boumediène *see* **Boulbrachene, Messaoud, 2005k:49092**

Cueto, E. *see* **González, David et al.**

Dahmen, Wolfgang *see* **Binev, Petăr G. et al., 2005d:65222**

Davini, Cesare (*with* Paroni, Roberto) Generalized Hessian and external approximations in variational problems of second order. (English summary) **2005c:74029**

Deville, Michel O. *see* **Manna, Marcello et al., 2005f:76073**

DeVore, Ronald *see* **Binev, Petăr G. et al., 2005d:65222**

Doblaré, M. *see* **González, David et al.**

Drăgănescu, Andrei (*with* Dupont, Todd F.; Scott, Larkin Ridgway) Failure of the discrete maximum principle for an elliptic finite element problem. (English summary) **2005f:65148**

Duan, Huo-Yuan (*with* Zhang, Da Li[1]) A finite element method for singularly perturbed reaction-diffusion problems. (English summary) **2005d:65207**

Dupont, Todd F. *see* **Drăgănescu, Andrei et al., 2005f:65148**

E, Wei-nan (*with* Ming, Ping-bing; Zhang, Ping Wen) Analysis of the heterogeneous multiscale method for elliptic homogenization problems. **2005k:65246**

Efendiev, Yalchin R. (*with* Pankov, A. A.) Numerical homogenization of monotone elliptic operators. (English summary) **2005a:65153**

(Estep, Donald) *see* **Collected lectures on the preservation of stability under discretization, 2005h:65004**

Ferreira, José Augusto Mendes *see* **Barbeiro, S., 2005m:65254**

Gallouët, Thierry Boundary conditions for hyperbolic equations or systems. (English summary) **2005k:35261**

Ganesh, Mahadevan *see* **Bialecki, Bernard et al., 2005a:65127**

Gómez Mármol, M. *see* **Bernardi, Christine et al., 2005g:76074**

González, David (*with* Cueto, E.; Doblaré, M.) Volumetric locking in natural neighbour Galerkin methods. (English summary)

Hemker, Pieter W. (*with* Hoffmann, Walter; van Raalte, M. H.) Fourier two-level analysis for discontinuous Galerkin discretization with linear elements. (English summary) **2005d:65210**

Hoffmann, Walter *see* **Hemker, Pieter W. et al., 2005d:65210**

Hohage, Thorsten (*with* Schmidt, Frank[2]; Zschiedrich, Lin) Solving time-harmonic scattering problems based on the pole condition. II. Convergence of the PML method. (English summary) **2005f:78003**

Hu, Hsin-Yun (*with* Li, Zi-Cai) Verification of reduced convergence rates. (English summary)

Hu, Jun (*with* Shi, Zhong-Ci) On the convergence of Weissman-Taylor element for Reissner-Mindlin plate. (English summary) **2005c:74067**

Huang, Jian Guo *see* **Chen, Wen Bin et al., 2005f:65146**

Huang, Wei Zhang[1] Convergence analysis of finite element solution of one-dimensional singularly perturbed differential equations on equidistributing meshes. (English summary) **2005j:65141**

Huang, Yun Qing (*with* Shu, Shi; Yu, Hai Yuan) Superconvergence and asymptotic expansions for linear finite element approximations on criss-cross mesh. (English summary) **2005f:65151**

Ismail, Ahmad Izani Md. *see* **Nasir, Mohd. Agos Salim, 2005k:65219**

Jovanović, Boško S. Finite difference schemes for partial differential equations with weak solutions and irregular coefficients. (English summary) **2005k:65217**

Jüngel, Ansgar (*with* Unterreiter, Andreas) Discrete minimum and maximum principles for finite element approximations of non-monotone elliptic equations. (English summary) **2005m:65269**

Kalitkin, N. N. *see* **Al'shin, A. B. et al., 2005d:65180**

Knobloch, Petr On the application of the p_1^{mod} element to incompressible flow problems. (English summary) **2005a:76101**

Koshigoe, Hideyuki Direct method for solving a transmission problem with a discontinuous coefficient and the Dirac distribution. (English summary) (*see* **2005g:00014**)

Křížek, Michal Superconvergence phenomena on three-dimensional meshes. (English summary) **2005j:65143**

Langdon, Stephen *see* **Chandler-Wilde, Simon N. et al., 2005e:65181**

Larson, Mats G. (*with* Niklasson, A. Jonas) Analysis of a nonsymmetric discontinuous Galerkin method for elliptic problems: stability and energy error estimates. (English summary) **2005g:65173**

Lewandowski, Roger *see* **Bernardi, Christine et al., 2005g:76074**

Li, Changjun[1] *see* **Zhang, Tie et al., 2005f:65160**

Li, Xin[7] Convergence of the method of fundamental solutions for solving the boundary value problem of modified Helmholtz equation. (English summary) **2005h:35043**

Li, Zi-Cai *see* **Hu, Hsin-Yun**

Limić, Nedžad (*with* Rogina, Mladen) Numerical solutions of Dirichlet problem for elliptic operator in divergence form with a right-hand side measure. (English summary) **2005a:65114**

Lin, Hao-min *see* **Chen, Wen Bin et al., 2005f:65146**

Lin, Jia Fu (*with* Lin, Qun[1]) Superconvergence of a mixed finite element approximation for a Stokes problem. (Chinese. English and Chinese summaries) **2005k:65255**

Lin, Qun[1] *see* **Lin, Jia Fu, 2005k:65255**

Lin, Runchang (*with* Zhang, Zhi Min[2]) Natural superconvergent points of triangular finite elements. (English summary) **2005f:65154**

— *see also* **Zhang, Zhi Min[2], 2005i:65195**

Long, Xiao Han (*with* Bi, Chun-jia) Uniform convergence for finite volume element method for non-selfadjoint and indefinite elliptic problems. (English summary) **2005k:65218**

Manna, Marcello (*with* Vacca, Andrea; Deville, Michel O.) Preconditioned spectral multi-domain discretization of the incompressible Navier-Stokes equations. (English summary) **2005f:76073**

Matus, Petr P. (*with* Rybak, I. V.) Difference schemes for elliptic equations with mixed derivatives. (English summary) **2005j:65126**

Ming, Ping-bing *see* **E, Wei-nan et al., 2005k:65246**

Murat, François *see* **Bernardi, Christine et al., 2005g:76074**

Mustapha, K. *see* **Bialecki, Bernard et al., 2005a:65127**

Nafa, Kamel *see* **Touafek, Nouressadat, 2005m:65284**

Nasir, Mohd. Agos Salim (*with* Ismail, Ahmad Izani Md.) Numerical solution of a linear Goursat problem: stability, consistency and convergence. (English summary) **2005k:65219**

Nie, Yi Yong *see* **Zhang, Tie et al., 2005f:65160**

Niklasson, A. Jonas *see* **Larson, Mats G., 2005g:65173**

Nikolaev, E. S. A new version of the marching method for solving boundary value problems for elliptic equations in regular domains. (Russian. Russian summary) **2005a:65115**

Oñate, Eugenio *see* **Boroomand, B. et al., 2005k:74033**

Pankov, A. A. *see* **Efendiev, Yalchin R., 2005a:65153**

Paroni, Roberto *see* **Davini, Cesare, 2005c:74029**

Patidar, Kailash C. Dispersion induced by the pollution for the wave equation. (English summary) **2005h:65220**

Pozzi, Paola L^2-estimate for the discrete Plateau problem. (English summary) **2005d:65211**

van Raalte, M. H. *see* **Hemker, Pieter W. et al., 2005d:65210**

Ren, Guo-biao *see* **Chen, Shao Chun et al., 2005c:65099**

Ritter, Lars *see* **Chandler-Wilde, Simon N. et al., 2005e:65181**

Rogina, Mladen *see* **Limić, Nedžad, 2005a:65114**

Rybak, I. V. *see* **Matus, Petr P., 2005j:65126**

Schmidt, Frank[2] *see* **Hohage, Thorsten et al., 2005f:78003**

Schötzau, Dominik (*with* Wihler, Thomas P.) Exponential convergence of mixed hp-DGFEM for Stokes flow in polygons. (English summary) **2005g:65176**

Scott, Larkin Ridgway *see* **Drăgănescu, Andrei et al., 2005f:65148**

Shi, Dong Yang *see* **Chen, Shao Chun et al., 2005c:65099** *and* **2005k:65244**

Shi, Zhong-Ci *see* **Hu, Jun, 2005c:74067**

Shu, Shi *see* **Huang, Yun Qing et al., 2005f:65151**

Sobotíková, Veronika The finite element analysis of an elliptic problem with a nonlinear Newton boundary condition. (English summary) (*see* **2005j:65003**)

Suri, Manil Stable hp mixed finite elements based on the Hellinger-Reissner principle. (English summary) **2005m:65282**

Tabatabaei, A. A. *see* **Boroomand, B. et al., 2005k:74033**

(Tavener, Simon) *see* **Collected lectures on the preservation of stability under discretization, 2005h:65004**

Touafek, Nouressadat (*with* Nafa, Kamel) New low order finite elements for fluid flow. (English summary) **2005m:65284**

Trujillo, David *see* **Amara, Mohamed et al., 2005d:65201**

Unterreiter, Andreas *see* **Jüngel, Ansgar, 2005m:65269**

Vacca, Andrea *see* **Manna, Marcello et al., 2005f:76073**

Wang, Song[1] (*with* Angermann, Lutz) On convergence of the exponentially fitted

finite volume method with an anisotropic mesh refinement for a singularly perturbed convection-diffusion equation. (English summary) **2005d:65185**

Wang, Zhi Qiang[1] (*with* Zhou, Jianxin) A local minimax-Newton method for finding multiple saddle points with symmetries. (English summary) **2005j:65052**

Wihler, Thomas P. *see* **Schötzau, Dominik, 2005g:65176**

Xu, Guo-liang Discrete Laplace-Beltrami operators and their convergence. (English summary) **2005j:58027**

— Convergence of discrete Laplace-Beltrami operators over surfaces. (English summary) **2005d:39087**

Yu, Hai Yuan *see* **Huang, Yun Qing et al., 2005f:65151**

Zhang, Da Li[1] *see* **Duan, Huo-Yuan, 2005d:65207**

Zhang, Ping Wen *see* **E, Wei-nan et al., 2005k:65246**

Zhang, Shangyou A new family of stable mixed finite elements for the 3D Stokes equations. (English summary) **2005j:65151**

Zhang, Tie (*with* Li, Changjun[1]; Nie, Yi Yong) Derivative superconvergence of linear finite elements by recovery techniques. (English summary) **2005f:65160**

Zhang, Zhi Min[2] (*with* Lin, Runchang) Locating natural superconvergent points of finite element methods in 3D. (English summary) **2005i:65195**

— *see also* **Lin, Runchang, 2005f:65154**

Zhao, Hong-Kai A fast sweeping method for eikonal equations. (English summary) **2005k:65222**

Zhao, Yong-cheng *see* **Chen, Shao Chun et al., 2005k:65244**

Zhou, Jianxin *see* **Wang, Zhi Qiang[1], 2005j:65052**

Zschiedrich, Lin *see* **Hohage, Thorsten et al., 2005f:78003**

Items listed otherwise than by author

Collected lectures on the preservation of stability under discretization ★ Collected lectures on the preservation of stability under discretization. **2005h:65004**

Fort Collins, CO ★ Collected lectures on the preservation of stability under discretization. **2005h:65004**

65N15 Error bounds

Achchab, B. (*with* Achchab, Said; Agouzal, A.) Some remarks about the hierarchical a posteriori error estimate. (English summary) **2005k:65225**

Achchab, Said *see* **Achchab, B. et al., 2005k:65225**

Actis, Ricardo *see* **Szabó, Barna, 2005h:65192**

Agouzal, A. *see* **Achchab, B. et al., 2005k:65225**

Alonso, Beatriz *see* **Martín, Ángel J. et al.**

Araya, Rodolfo (*with* Valentin, Frédéric) A multiscale a posteriori error estimate. (English summary) **2005k:65226**

Asensio Sevilla, María Isabel (*with* Russo, Alessandro; Sangalli, Giancarlo) The residual-free bubble numerical method with quadratic elements. (English summary) **2005a:65117**

Babuška, Ivo *see* **Oden, J. Tinsley et al., 2005i:65169**

Bartels, Sören (*with* Carstensen, Carsten; Dolzmann, Georg) Inhomogeneous Dirichlet conditions in a priori and a posteriori finite element error analysis. (English summary) **2005i:65166**

Belhachmi, Zakaria Residual a posteriori error estimates for a 3D mortar finite-element method: the Stokes system. (English summary) **2005e:65172**

Bergam, A. (*with* Mghazli, Zoubida; Verfürth, Rüdiger) Estimations a posteriori d'un schéma de volumes finis pour un problème non linéaire. (English and French summaries) [A posteriori estimates for a finite-volume scheme for a nonlinear problem] **2005d:65189**

Blacker, D. J. A robust a posteriori error estimate for the Fortin-Soulie finite-element method. (English summary) **2005m:65244**

Blanc, Philippe (*with* Eymard, Robert; Herbin, Raphaèle) An error estimate for finite volume methods for the Stokes equations on equilateral triangular meshes. (English summary) **2005k:65227**

Bostan, Viorel (*with* Han, Weimin; Reddy, B. Daya) A posteriori error estimation and adaptive solution of elliptic variational inequalities of the second kind. (English summary) **2005i:65167**

Carstensen, Carsten All first-order averaging techniques for a posteriori finite element error control on unstructured grids are efficient and reliable. (English summary) **2005e:65173**

— *see also* **Bartels, Sören et al., 2005i:65166**

Chen, Hongsen Local error estimates of mixed discontinuous Galerkin methods for elliptic problems. (English summary) **2005a:65118**

Creusé, Emmanuel (*with* Nicaise, Serge; Kunert, Gerd) A posteriori error estimation for the Stokes problem: anisotropic and isotropic discretizations. (English summary) **2005g:65159**

Dolzmann, Georg *see* **Bartels, Sören et al., 2005i:65166**

Eymard, Robert *see* **Blanc, Philippe et al., 2005k:65227**

Feng, Yusheng *see* **Oden, J. Tinsley et al., 2005i:65169**

Fierro, Francesca (*with* Veeser, Andreas) On the a posteriori error analysis for equations of prescribed mean curvature. (English summary) **2005b:65118**

Formaggia, Luca (*with* Micheletti, Stefano; Perotto, Simona) Anisotropic mesh adaption in computational fluid dynamics: application to the advection-diffusion-reaction and the Stokes problems. (English summary) **2005h:65191**

Frolov, M. E. (*with* Neittaanmäki, Pekka; Repin, S. I.) On computational properties of a posteriori error estimates based upon the method of duality error majorants. (English summary) (*see* **2005j:65003**)

— On efficiency of the dual majorant method for the quality estimation of approximate solutions of fourth-order elliptic boundary value problems. (English summary) **2005j:65128**

Garbey, M. (*with* Shyy, W.) A least square extrapolation method for the a posteriori error estimate of the incompressible Navier Stokes problem. (English summary)

Gatica, Gabriel N. A note on the efficiency of residual-based a-posteriori error estimators for some mixed finite element methods. (English summary) **2005i:65168**

Gavete, Luis *see* **Martín, Ángel J. et al.**

Giles, Michael B. (*with* Süli, Endre) Adjoint methods for PDEs: a posteriori error analysis and postprocessing by duality. (English summary) **2005d:65190**

— (*with* Pierce, Niles A.; Süli, Endre) Progress in adjoint error correction for integral functionals. (English summary) **2005d:65191**

Han, Weimin *see* **Bostan, Viorel et al., 2005i:65167**

Herbin, Raphaèle *see* **Blanc, Philippe et al., 2005k:65227**

Jakobsen, Espen Robstad On error bounds for approximation schemes for non-convex degenerate elliptic equations. (English summary) **2005e:65174**

Karakashian, Ohannes A. (*with* Pascal, Frédéric) A posteriori error estimates for a discontinuous Galerkin approximation of second-order elliptic problems. (English summary) **2005d:65192**

Korotov, Sergey (*with* Neittaanmäki, Pekka; Repin, S. I.) A posteriori error estimation in terms of linear functionals for boundary value problems of elliptic type. (English summary) (*see* **2005j:65003**)

Křížek, Michal *see* **Liu, Li Ping[2] et al., 2005k:65230**

Kunert, Gerd A posterior H^1 error estimation for a singularly perturbed reaction diffusion problem on anisotropic meshes. (English summary) **2005k:65228**

— *see also* **Creusé, Emmanuel et al., 2005g:65159**

Kweon, Jae Ryong A posteriori error estimates for a compressible Stokes system. (English summary) **2005k:65229**

Lin, Tao[1] *see* **Liu, Li Ping[2] et al., 2005k:65230**

Liu, Li Ping[2] (*with* Liu, Tang; Křížek, Michal; Lin, Tao[1]; Zhang, Shu Hua[3]) Global superconvergence and a posteriori error estimators of the finite element method for a quasi-linear elliptic boundary value problem of nonmonotone type. (English summary) **2005k:65230**

Liu, Tang *see* **Liu, Li Ping[2] et al., 2005k:65230**

Martín, Ángel J. (*with* Gavete, Luis; Alonso, Beatriz; Ruiz Perea, Antonio) A posteriori error approximation in the element-free Galerkin method. (Spanish. English and Spanish summaries)

Mghazli, Zoubida *see* **Bergam, A. et al., 2005d:65189**

Micheletti, Stefano *see* **Formaggia, Luca et al., 2005h:65191**

Naga, Ahmed (*with* Zhang, Zhi Min[2]) A posteriori error estimates based on the polynomial preserving recovery. (English summary) **2005k:65231**

Neittaanmäki, Pekka *see* **Frolov, M. E. et al., (2005j:65003)** *and* **Korotov, Sergey et al., (2005j:65003)**

Nicaise, Serge *see* **Creusé, Emmanuel et al., 2005g:65159**

Nobile, Fabio *see* **Oden, J. Tinsley et al., 2005i:65169**

Oden, J. Tinsley (*with* Babuška, Ivo; Nobile, Fabio; Feng, Yusheng; Tempone, Raúl) Theory and methodology for estimation and control of errors due to modeling, approximation, and uncertainty. (English summary) **2005i:65169**

Pascal, Frédéric *see* **Karakashian, Ohannes A., 2005d:65192**

Peraire, J. *see* **Sauer-Budge, A. M., 2005k:65232**

Perotto, Simona *see* **Formaggia, Luca et al., 2005h:65191**

Pierce, Niles A. *see* **Giles, Michael B. et al., 2005d:65191**

Reddy, B. Daya *see* **Bostan, Viorel et al., 2005i:65167**

Repin, S. I. (*with* Sauter, Stefan; Smolianski, Anton) A posteriori estimation of dimension reduction errors. (English summary) (*see* **2005j:65003**)

— *see also* **Frolov, M. E. et al., (2005j:65003)** *and* **Korotov, Sergey et al., (2005j:65003)**

Ruiz Perea, Antonio *see* **Martín, Ángel J. et al.**

Russo, Alessandro *see* **Asensio Sevilla, María Isabel et al., 2005a:65117**

Ryan, Jennifer K. (*with* Shu, Chi-Wang) On a one-sided post-processing technique for the discontinuous Galerkin methods. (English summary)

Sangalli, Giancarlo *see* **Asensio Sevilla, María Isabel et al., 2005a:65117**

Sauer-Budge, A. M. (*with* Peraire, J.) Computing bounds for linear functionals of exact weak solutions to the advection-diffusion-reaction equation. (English summary) **2005k:65232**

Sauter, Stefan *see* **Repin, S. I. et al., (2005j:65003)**

Shu, Chi-Wang *see* **Ryan, Jennifer K.**

Shyy, W. *see* **Garbey, M.**

Smolianski, Anton *see* **Repin, S. I. et al., (2005j:65003)**

Süli, Endre *see* **Giles, Michael B. et al., 2005d:65190** *and* **2005d:65191**

Szabó, Barna (*with* Actis, Ricardo) On the importance and uses of feedback information in FEA. (English summary) **2005h:65192**

Tempone, Raúl *see* **Oden, J. Tinsley et al., 2005i:65169**

Valentin, Frédéric *see* **Araya, Rodolfo, 2005k:65226**

Veeser, Andreas *see* **Fierro, Francesca, 2005b:65118**

Verfürth, Rüdiger *see* **Bergam, A. et al., 2005d:65189**

Xu, Jin Chao (*with* Zhang, Zhi Min[2]) Analysis of recovery type a posteriori error estimators for mildly structured grids. (English summary) **2005f:65141**

Yu, De Hao (*with* Zhao, Longhua) Boundary integral equations and a posteriori error estimates. (English summary)

Zhang, Shu Hua[3] *see* **Liu, Li Ping[2] et al., 2005k:65230**

Zhang, Zhi Min[2] Polynomial preserving gradient recovery and a posteriori estimate for bilinear element on irregular quadrilaterals. (English summary) **2005b:65119**

— *see also* **Xu, Jin Chao, 2005f:65141** *and* **Naga, Ahmed, 2005k:65231**

Zhao, Longhua *see* **Yu, De Hao**

Zuppa, Carlos Error estimates for modified local Shepard's formulas in Sobolev spaces. (English summary) **2005d:65193**

Items with secondary classifications in 65N15

Achdou, Yves (*with* Bernardi, Christine; Coquel, Frédéric) A priori and a posteriori analysis of finite volume discretizations of Darcy's equations. (English summary) **2005d:65179**

Ainsworth, Mark A posteriori error estimation for non-conforming quadrilateral finite elements. (English summary) **2005m:65253**

Aliyev, Hamza F. (*with* Imranov, Fariz B.) On convergence of lines method at approximate solution of one partial differential equation of elliptic type. (English summary) **2005h:65231**

Allali, Karam A priori and a posteriori error estimates for Boussinesq equations. (English summary) **2005j:76028**

Austin, Travis M. (*with* Manteuffel, Thomas A.; McCormick, Stephen F.) A robust multilevel approach for minimizing **H**(div)-dominated functionals in an $\mathbf{H}^1$-conforming

finite element space. (English summary) **2005d:65226**

Axelsson, Axel Ove Holger (*with* Gololobov, S. V.) A combined method of local Green's functions and central difference method for singularly perturbed convection-diffusion problems. (English summary) **2005d:65181**

Baeza, L. *see* **Tarancón, José Enrique et al.**

Bartels, Sören (*with* Carstensen, Carsten) Averaging techniques yield reliable a posteriori finite element error control for obstacle problems. (English summary) **2005m:35067**

Bauman, Paul *see* **Oden, J. Tinsley et al., 2005m:74034**

Becker, Roland (*with* Vexler, Boris) A posteriori error estimates for parameter identification. (English summary) **2005j:65129**

Bekkey, Chokri (*with* Djellouli, Rabia; Youssef, Mouna) A numerical method for solving a class of inverse eigenvalue problems. Application to optical fibre design. (English summary) (*see* **2005b:00020**)

Bermúdez de Castro, Alfredo (*with* Rodríguez, Rodolfo; Salgado, Pilar) Numerical solution of eddy current problems in bounded domains using realistic boundary conditions. (English summary) **2005h:78025**

Bernardi, Christine (*with* Girault, Vivette; Hecht, Frédéric) A posteriori analysis of a penalty method and application to the Stokes problem. (English summary) **2005d:65202**

— *see also* **Achdou, Yves et al., 2005d:65179**

Berrone, Stefano (*with* Canuto, Claudio) Multilevel a posteriori error analysis for reaction-convection-diffusion problems. (English summary) **2005g:65166**

Braack, Malte (*with* Ern, Alexandre) Adaptive computation of reactive flows with local mesh refinement and model adaptation. (English summary) **2005j:65137**

Braess, Dietrich (*with* Ming, Ping-bing) A finite element method for nearly incompressible elasticity problems. (English summary) **2005f:74073**

Bustinza, Rommel (*with* Garcia, Galina C.; Gatica, Gabriel N.) A mixed finite element method with Lagrange multipliers for nonlinear exterior transmission problems. (English summary) **2005e:65179**

Cai, Zhiqiang (*with* Starke, Gerhard) First-order system least squares for the stress-displacement formulation: linear elasticity. (English summary) **2005e:65180**

— (*with* Starke, Gerhard) Least-squares methods for linear elasticity. (English summary) **2005i:65179**

Canuto, Claudio *see* **Berrone, Stefano, 2005g:65166**

Cao, Jian[2] *see* **Liu, Wing Kam et al., 2005a:65134**

Carstensen, Carsten (*with* Klose, R.) A posteriori finite element error control for the p-Laplace problem. (English summary) **2005d:65203**

— (*with* Dolzmann, Georg) An a priori error estimate for finite element discretizations in nonlinear elasticity for polyconvex materials under small loads. (English summary) **2005b:74019**

— Some remarks on the history and future of averaging techniques in a posteriori finite element error analysis. (English summary) **2005d:65204**

— *see also* **Bartels, Sören, 2005m:35067**

Chen, Chuan Miao Global superconvergence for L^2-projection to linear and quadratic triangular elements. (Chinese. English summary) **2005c:65097**

Chen, Hongsen (*with* Wang, Jun Ping[1]) An interior estimate of superconvergence for finite element solutions for second-order elliptic problems on quasi-uniform meshes by local projections. (English summary) **2005a:65128**

Chen, Wen Bin (*with* Shen, Yi-fan; Xia, Qing) A mortar finite element approximation for the linear Poisson-Boltzmann equation. (English summary) **2005m:65262**

Chen, Yan Ping[1] (*with* Liu, Wen Bin[1]) A posteriori error estimates for mixed finite elements of a quadratic control problem. (English summary) **2005d:49048**

Ciric, Ioan R. (*with* Maghiar, Theodor; Hănţilă, Ioan Florea; Ifrim, Costin) Error bounds for the FEM numerical solution of non-linear field problems. (English summary) **2005c:78037**

Cockburn, Bernardo (*with* Yenikaya, Bayram) An adaptive method with rigorous error control for the Hamilton-Jacobi equations. I. The one-dimensional steady state case. (English summary) **2005i:65200**

Coquel, Frédéric *see* **Achdou, Yves et al., 2005d:65179**

Deckelnick, Klaus (*with* Elliott, Charles M.) Uniqueness and error analysis for Hamilton-Jacobi equations with discontinuities. (English summary) **2005h:35035**

Demlow, Alan Piecewise linear finite element methods are not localized. (English summary) **2005a:65129**

— Localized pointwise error estimates for mixed finite element methods. (English summary) **2005e:65184**

Djellouli, Rabia *see* **Bekkey, Chokri et al., (2005b:00020)**

Dolzmann, Georg *see* **Carstensen, Carsten, 2005b:74019**

Dosiev, Anar A. A high accuracy difference-analytical method for solving Laplace's boundary value problem with singularities. (English summary) (*see* **2005i:65006**)

— The high accurate block-grid method for solving Laplace's boundary value problem with singularities. (English summary) **2005e:65163**

Duan, Huo-Yuan (*with* Zhang, Da Li[1]) A finite element method for singularly perturbed reaction-diffusion problems. (English summary) **2005d:65207**

— (*with* Lin, Qun[1]) Mixed finite elements of least-squares type for elasticity. (English summary) **2005j:74054**

Elliott, Charles M. *see* **Deckelnick, Klaus, 2005h:35035**

Ern, Alexandre *see* **Braack, Malte, 2005j:65137**

Farhloul, Mohamed (*with* Nicaise, Serge; Paquet, Luc) A posteriori error estimation for the dual mixed finite element method of the Stokes problem. (English and French summaries)

— (*with* Zine, A. M.) A mixed finite element method for a quasi-Newtonian fluid flow. (English summary) **2005h:65208**

Fierro, Francesca (*with* Veeser, Andreas) A posteriori error estimators for regularized total variation of characteristic functions. (English summary) **2005e:49063**

Filippychev, D. S. Second-order approximation of the radial part of the Laplace operator on condensing grids. (English summary) **2005e:65164**

Fuenmayor, F. J. *see* **Tarancón, José Enrique et al.**

Garcia, Galina C. *see* **Bustinza, Rommel et al., 2005e:65179**

Gatica, Gabriel N. (*with* Maischak, Matthias) A posteriori error estimates for the mixed finite element method with Lagrange multipliers. (English summary) **2005m:65266**

— *see also* **Bustinza, Rommel et al., 2005e:65179**

Georgoulis, Emmanuil H. (*with* Süli, Endre) Optimal error estimates for the hp-version interior penalty discontinuous Galerkin finite element method. (English summary) **2005i:65187**

Girault, Vivette *see* **Bernardi, Christine et al., 2005d:65202**

Gololobov, S. V. *see* **Axelsson, Axel Ove Holger, 2005d:65181**

Grüne, Lars Error estimation and adaptive discretization for the discrete stochastic Hamilton-Jacobi-Bellman equation. (English summary) **2005h:93175**

Han, Weimin ★ A posteriori error analysis via duality theory. **2005k:65003**

— *see also* **Liu, Wing Kam et al., 2005a:65134**

Hănţilă, Ioan Florea *see* **Ciric, Ioan R. et al., 2005c:78037**

Hasler, Urs (*with* Schneebeli, Anna; Schötzau, Dominik) Mixed finite element approximation of incompressible MHD problems based on weighted regularization. (English summary) **2005d:65209**

Hecht, Frédéric *see* **Bernardi, Christine et al., 2005d:65202**

Hemker, Pieter W. (*with* Shishkin, Grigorii I.; Shishkina, L. P.) High-order accuracy decomposition of Richardson's method for a singularly perturbed elliptic reaction-diffusion equation. (Russian. Russian summary) **2005f:65138**

Houston, Paul (*with* Perugia, Ilaria; Schötzau, Dominik) Energy norm a posteriori error estimation for mixed discontinuous Galerkin approximations of the Maxwell operator. (English summary) **2005h:78027**

Hu, Jun (*with* Huang, Yun Qing; Xue, Wei Min[1]) An optimal error estimate for an h-p clouds Galerkin method. (English summary) **2005c:65102**

Huang, Yun Qing *see* **Hu, Jun et al., 2005c:65102**

Hüeber, S. (*with* Mair, Michael; Wohlmuth, Barbara I.) A priori error estimates and an inexact primal-dual active set strategy for linear and quadratic finite elements applied to multibody contact problems. (English summary) **2005m:74094**

Ifrim, Costin *see* **Ciric, Ioan R. et al., 2005c:78037**

Imranov, Fariz B. *see* **Aliyev, Hamza F., 2005h:65231**

Kharrat, Nizar (*with* Mghazli, Zoubida) Residual error estimators for the time-dependent Stokes equations. (English and French summaries)

Klose, R. *see* **Carstensen, Carsten, 2005d:65203**

Kuznetsov, Yurïĭ Alekseevich[1] (*with* Repin, S. I.) Convergence analysis and error estimates for mixed finite element method on distorted meshes. (English summary) **2005m:65272**

Larson, Mats G. (*with* Niklasson, A. Jonas) Analysis of a family of discontinuous Galerkin methods for elliptic problems: the one dimensional case. (English summary) **2005i:65188**

— (*with* Niklasson, A. Jonas) Analysis of a nonsymmetric discontinuous Galerkin method for elliptic problems: stability and energy error estimates. (English summary) **2005g:65173**

Lee, Kwok-Hong *see* **Xuan, Zhao Cheng et al., (2005g:65008)**

Le Gia, Q. T. The $L^2(S^n)$ error estimate for the Galerkin method for elliptic PDEs on spheres. (English summary) **2005k:65254**

Li, Shaofan *see* **Liu, Wing Kam et al., 2005a:65134**

Li, Yong Hai *see* **Sun, Feng Zhi, 2005k:65221**

Li, Zhi Lin[1] (*with* Lin, Tao[1]; Lin, Yan Ping; Rogers, R. C.) An immersed finite element space and its approximation capability. (English summary) **2005f:65153**

Lin, Qun[1] *see* **Duan, Huo-Yuan, 2005j:74054**

Lin, Tao[1] *see* **Li, Zhi Lin[1] et al., 2005f:65153**

Lin, Yan Ping *see* **Li, Zhi Lin[1] et al., 2005f:65153**

Liu, Jing Hong (*with* Zhu, Qi Ding) Uniform superapproximation of the derivative of tetrahedral quadratic finite element approximation. (English summary) **2005m:65275**

Liu, Wen Bin[1] *see* **Chen, Yan Ping[1], 2005d:49048**

Liu, Wing Kam (*with* Han, Weimin; Lu, Hongsheng; Li, Shaofan; Cao, Jian[2]) Reproducing kernel element method. I. Theoretical formulation. (English summary) **2005a:65134**

Lonsing, Marco (*with* Verfürth, Rüdiger) A posteriori error estimators for mixed finite element methods in linear elasticity. (English summary) **2005j:65144**

Loula, Abimael F. D. *see* **Silva, Rita C. C., 2005k:65261**

Lu, Hongsheng *see* **Liu, Wing Kam et al., 2005a:65134**

Ma, Chang Feng Convergence of an alternating A-φ scheme for quasi-magnetostatic eddy current problem. (English summary) **2005h:65218**

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Ma, Yi Chen *see* **Ren, Chun Feng, 2005c:76065**

Maghiar, Theodor *see* **Ciric, Ioan R. et al., 2005c:78037**

Maharavo Randrianarivony, H. Anisotropic finite elements for the Stokes problem: a posteriori error estimator and adaptive mesh. (English summary) **2005f:65155**

Mair, Michael *see* **Hüeber, S. et al., 2005m:74094**

Maischak, Matthias *see* **Stephan, Ernst P., 2005h:78028** *and* **Gatica, Gabriel N., 2005m:65266**

Manteuffel, Thomas A. *see* **Austin, Travis M. et al., 2005d:65226**

Markolefas, S. *see* **Tsamasphyros, G., 2005e:65186**

McCormick, Stephen F. *see* **Austin, Travis M. et al., 2005d:65226**

Mghazli, Zoubida *see* **Kharrat, Nizar**

Ming, Ping-bing *see* **Braess, Dietrich, 2005f:74073**

Mozolevskĭĭ, I. E. (*with* Süli, Endre) A priori error analysis for the hp-version of the discontinuous Galerkin finite element method for the biharmonic equation. (English summary) **2005c:65106**

Naga, Ahmed *see* **Zhang, Zhi Min[2], 2005g:65177**

Najib, K. (*with* Sandri, Dominique; Zine, A. M.) On a posteriori estimates for a linearized Oldroyd's problem. (English summary) **2005d:76001**

Neittaanmäki, Pekka (*with* Repin, S. I.) ★ Reliable methods for computer simulation. **2005k:65005**

Nicaise, Serge On Zienkiewicz-Zhu error estimators for Maxwell's equations. (English and French summaries) **2005m:78029**

— *see also* **Farhloul, Mohamed et al.**

Niklasson, A. Jonas *see* **Larson, Mats G., 2005g:65173** *and* **2005i:65188**

Nkemzi, Boniface Error estimates for the Fourier-finite-element approximation of the Lamé system in nonsmooth axisymmetric domains. (English summary) **2005m:65276**

Oden, J. Tinsley (*with* Prudhomme, S.; Bauman, Paul) On the extension of goal-oriented error estimation and hierarchical modeling to discrete lattice models. (English summary) **2005m:74034**

Paquet, Luc *see* **Farhloul, Mohamed et al.**
Patera, Anthony T. *see* **Prud'homme, C., 2005c:65107** *and* **Veroy, K., 2005j:76029**
Paulino, Rivânia H. (*with* Rochinha, Fernando Alves) A higher-order velocity post-processing for the Helmholtz equation. (English summary) **2005h:76056**
Peraire, J. *see* **Xuan, Zhao Cheng et al., (2005g:65008)**
Perugia, Ilaria (*with* Schötzau, Dominik; Warsa, James) On a discontinuous Galerkin method for radiation-diffusion problems. (English summary) (*see* **2005j:65003**)
— *see also* **Houston, Paul et al., 2005h:78027**
Plexousakis, Michael (*with* Zouraris, Georgios E.) On the construction and analysis of high order locally conservative finite volume-type methods for one-dimensional elliptic problems. (English summary) **2005m:65279**
Pousin, Jérôme (*with* Sassi, Taoufik) A posteriori error estimates and domain decomposition with nonmatching grids. (English summary) **2005m:65304**
Pozzi, Paola L^2-estimate for the discrete Plateau problem. (English summary) **2005d:65211**
Prud'homme, C. (*with* Patera, Anthony T.) Reduced-basis output bounds for approximately parameterized elliptic coercive partial differential equations. (English summary) **2005c:65107**
Prudhomme, S. *see* **Oden, J. Tinsley et al., 2005m:74034**
Ren, Chun Feng (*with* Ma, Yi Chen) Residual a posteriori error estimate two-grid methods for the steady Navier-Stokes equation with stream function form. (Chinese. English and Chinese summaries) **2005c:76065**
Repin, S. I. Estimates for deviations from exact solutions of some boundary value problems with the incompressibility condition. (Russian. Russian summary) **2005i:35213**
— (*with* Sauter, Stefan; Smolianski, Anton) A posteriori estimation of dimension reduction errors for elliptic problems on thin domains. (English summary) **2005h:35063**
— *see also* **Neittaanmäki, Pekka, 2005k:65005** *and* **Kuznetsov, Yuriĭ Alekseevich[1], 2005m:65272**
Rivière, Béatrice Analysis of a multi-numerics/multi-physics problem. (English summary) (*see* **2005j:65003**)
Rochinha, Fernando Alves *see* **Paulino, Rivânia H., 2005h:76056**
Rodríguez, Rodolfo *see* **Bermúdez de Castro, Alfredo et al., 2005h:78025**
Rogers, R. C. *see* **Li, Zhi Lin[1] et al., 2005f:65153**
Roos, Hans-Görg (*with* Zarin, Helena) The discontinuous Galerkin finite element method for singularly perturbed problems. (English summary) (*see* **2005a:65001**)
— (*with* Zarin, Helena) The discontinuous Galerkin method for singularly perturbed problems. (English summary) (*see* **2005j:65003**)
Salgado, Pilar *see* **Bermúdez de Castro, Alfredo et al., 2005h:78025**
Sandri, Dominique *see* **Najib, K. et al., 2005d:76001**
Sassi, Taoufik *see* **Pousin, Jérôme, 2005m:65304**
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Schötzau, Dominik *see* **Hasler, Urs et al., 2005d:65209; Houston, Paul et al., 2005h:78027** *and* **Perugia, Ilaria et al., (2005j:65003)**
Shen, Jie[1] (*with* Wang, Li-Lian) Error analysis for mapped Legendre spectral and pseudospectral methods. (English summary) **2005d:65220**
Shen, Yi-fan *see* **Chen, Wen Bin et al., 2005m:65262**
Shishkin, Grigorii I. An improved piecewise uniform mesh for a singularly perturbed elliptic reaction-diffusion equation. (English summary) **2005f:65140**
— *see also* **Hemker, Pieter W. et al., 2005f:65138**
Shishkina, L. P. *see* **Hemker, Pieter W. et al., 2005f:65138**
Silva, Rita C. C. (*with* Loula, Abimael F. D.) Local residual error estimator and adaptive finite element analysis of Poisson's problems. (English summary) **2005k:65261**
Smolianski, Anton *see* **Repin, S. I. et al., 2005h:35063**
Starke, Gerhard *see* **Cai, Zhiqiang, 2005e:65180** *and* **2005i:65179**
Stephan, Ernst P. (*with* Maischak, Matthias) A posteriori error estimates for fem-bem couplings of three-dimensional electromagnetic problems. (English summary) **2005h:78028**
Süli, Endre *see* **Mozolevskiĭ, I. E., 2005c:65106** *and* **Georgoulis, Emmanuil H., 2005i:65187**
Sun, Feng Zhi (*with* Li, Yong Hai) Finite volume element method based on circumcenter dual subdivisions. (Chinese. English and Chinese summaries) **2005k:65221**
Suttmeier, F. T. Reliable approximation of weight factors entering residual-based error bounds for FE-discretisations. (English summary) **2005i:65191**
— Reliable, goal-oriented postprocessing for FE-discretizations. (English summary) **2005j:65149**
Tarancón, José Enrique (*with* Fuenmayor, F. J.; Baeza, L.) An a posteriori error estimator for the p- and hp-versions of the finite element method. (English summary)
Tsamasphyros, G. (*with* Markolefas, S.) Integration pointwise pollution error estimates in the finite element method in one dimension. (English summary) **2005e:65186**
Veeser, Andreas *see* **Fierro, Francesca, 2005e:49063**
Verfürth, Rüdiger *see* **Lonsing, Marco, 2005j:65144**
Veroy, K. (*with* Patera, Anthony T.) Certified real-time solution of the parametrized steady incompressible Navier-Stokes equations: rigorous reduced-basis a posteriori error bounds. (English summary) **2005j:76029**
Vexler, Boris *see* **Becker, Roland, 2005j:65129**
Wang, Jun Ping[1] *see* **Chen, Hongsen, 2005a:65128**
Wang, Li-Lian *see* **Shen, Jie[1], 2005d:65220**
Wang, Tong Ke A mixed finite volume element method based on rectangular mesh for biharmonic equations. (English summary) **2005h:65190**
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Warsa, James *see* **Perugia, Ilaria et al., (2005j:65003)**
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Wu, Xiao Tian Meshless methods for solving partial differential equations. (Chinese. English and Chinese summaries) **2005h:65224**
Xia, Qing *see* **Chen, Wen Bin et al., 2005m:65262**
Xuan, Zhao Cheng (*with* Lee, Kwok-Hong; Peraire, J.) A posteriori output bound for partial differential equations based on elemental error bound computing. (English summary) (*see* **2005g:65008**)
Xue, Wei Min[1] *see* **Hu, Jun et al., 2005c:65102**
Yang, Hong Yong[1] *see* **Yang, Xin[2] et al., 2005d:65221**
Yang, Xin[2] (*with* Yang, Hong Yong[1]; Wang, Yan Bo[1]) Collocation boundary element method for a conductivity equation with piecewise constant coefficient. (Chinese. English and Chinese summaries) **2005d:65221**
Ye, Xiu A new discontinuous finite volume method for elliptic problems. (English summary) **2005k:65263**
Yenikaya, Bayram *see* **Cockburn, Bernardo, 2005i:65200**
Youssef, Mouna *see* **Bekkey, Chokri et al., (2005b:00020)**
Zarin, Helena *see* **Roos, Hans-Görg, (2005a:65001)** *and* **(2005j:65003)**
Zboiński, G. A posteriori error estimation for hp-approximation of the 3D-based first order shell model. II. Implementation aspects. (English and Georgian summaries) **2005b:74123**
Zhang, Da Li[1] *see* **Duan, Huo-Yuan, 2005d:65207**
Zhang, De-yue (*with* Ma, Fu-ming) The two-dimensional electromagnetic scattering from periodic chiral structures and its finite element approximation. (English summary) **2005c:78026**
Zhang, Tie The optimal order error estimates for finite element approximations to hyperbolic problems. (English summary) **2005m:65286**
Zhang, Zhi Min[2] (*with* Naga, Ahmed) Validation of the a posteriori error estimator based on polynomial preserving recovery for linear elements. (English summary) **2005g:65177**
— Polynomial preserving recovery for anisotropic and irregular grids. (English summary) **2005e:65189**
Zhao, Hong-Kai A fast sweeping method for eikonal equations. (English summary) **2005k:65222**
Zhao, Qing Hua *see* **Zhu, Qi Ding, 2005k:65265**
Zhu, Qi Ding (*with* Zhao, Qing Hua) New discussions for finite element superconvergence. (English and Chinese summaries) **2005k:65265**
— *see also* **Liu, Jing Hong, 2005m:65275**
Zine, A. M. *see* **Najib, K. et al., 2005d:76001** *and* **Farhloul, Mohamed, 2005h:65208**
Zouraris, Georgios E. *see* **Plexousakis, Michael, 2005m:65279**
Zuppa, Carlos Jackson-type inequalities for h-p clouds and error estimates. (English summary) **2005j:65152**

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Ando, Shigeru *see* **Nara, T., 2005i:65170**
Becker, Roland (*with* Vexler, Boris) A posteriori error estimates for parameter identification. (English summary) **2005j:65129**
Chan, Tony F. C. (*with* Tai, Xue-Cheng) Identification of discontinuous coefficients in elliptic problems using total variation regularization. (English summary) **2005c:65091**
Charton, Mathias (*with* Reinhardt, Hans-Jürgen) Approximation of cauchy problems for elliptic equations using the method of lines. (English summary)
El Hajji, S. *see* **Essaouini, M. et al., 2005h:65193** *and* **2005m:65245**
Essaouini, M. (*with* Nachaoui, Abdeljalil; El Hajji, S.) Numerical method for solving a class of nonlinear elliptic inverse problems. (English summary) **2005m:65245**
— (*with* Nachaoui, Abdeljalil; El Hajji, S.) Reconstruction of boundary data for a class of nonlinear inverse problems. (English summary) **2005h:65193**
Ha-Duong, Tuong (*with* Jaoua, Mohamed; Menif, Faiza) A modified frozen Newton method to identify a cavity by means of boundary measurements. (English summary) **2005e:65175**
He, Zhi Qiang[2] *see* **Wang, Lian Tang, 2005b:65120**
Hon, Yiu-Chung (*with* Wei, Ting) A meshless scheme for solving inverse problems of Laplace equation. (English summary) (*see* **2005d:35008**)
— *see also* **Ling, Leevan et al.**
Ito, Kazufumi *see* **Kojima, Fumio, 2005m:65246**
Jaoua, Mohamed *see* **Ha-Duong, Tuong et al., 2005e:65175**
Joyner, M. L. Comparison of two techniques for implementing the proper orthogonal decomposition method in damage detection problems. (English summary) **2005h:65194**
Kojima, Fumio (*with* Ito, Kazufumi) Inverse analysis of magnetic charge densities using discrete Fourier transform with Tikhonov regularization. (English summary) **2005m:65246**
Kügler, Philipp A derivative-free Landweber iteration for parameter identification in certain elliptic PDEs. (English summary) **2005e:65176**
Ling, Leevan (*with* Hon, Yiu-Chung; Yamamoto, Masahiro) Inverse source identification for Poisson equation. (English summary)
MacMillan, H. R. (*with* Manteuffel, Thomas A.; McCormick, Stephen F.) First-order system least squares and electrical impedance tomography. (English summary) **2005h:65195**
Manteuffel, Thomas A. *see* **MacMillan, H. R. et al., 2005h:65195**
McCormick, Stephen F. *see* **MacMillan, H. R. et al., 2005h:65195**
Menif, Faiza *see* **Ha-Duong, Tuong et al., 2005e:65175**
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— Numerical linear algebra for reconstruction inverse problems. (English summary) **2005e:65177**
— *see also* **Essaouini, M. et al., 2005h:65193** *and* **2005m:65245**
Nara, T. (*with* Ando, Shigeru) Algebraic solution for the inverse source problem of the Poisson equation. (English summary) **2005i:65170**
Reinhardt, Hans-Jürgen *see* **Charton, Mathias**
Tai, Xue-Cheng *see* **Chan, Tony F. C., 2005c:65091**
Vexler, Boris *see* **Becker, Roland, 2005j:65129**
Wang, Lian Tang (*with* He, Zhi Qiang[2]) Recovering the acoustic wave impedance coefficient from the incomplete data of the far field pattern. (Chinese. English and Chinese summaries) **2005b:65120**
Wei, Ting *see* **Hon, Yiu-Chung, (2005d:35008)**
Yamamoto, Masahiro *see* **Ling, Leevan et al.**

Items with secondary classifications in 65N21

Ammari, Habib (*with* Kang, Hyeonbae; Kim, Eunjoo; Lim, Mikyoung) Reconstruction of closely spaced small inclusions. (English summary) **2005m:78011**
Anderson, Michael Lindsay (*with* Bangerth, Wolfgang; Carey, Graham F.) Analysis of parameter sensitivity and experimental design for a class of nonlinear partial differential

equations. (English summary) **2005m:76044**
Ascher, U. M. (*with* Haber, Eldad) A multigrid method for distributed parameter estimation problems. (English summary) **2005a:65148**
Bangerth, Wolfgang *see* **Anderson, Michael Lindsay et al., 2005m:76044**
Becker, Roland (*with* Braack, Malte; Vexler, Boris) Parameter identification for chemical models in combustion problems. (English summary) **2005m:80005**
Ben Ameur, Hend (*with* Burger, Martin; Hackl, Benjamin) Level set methods for geometric inverse problems in linear elasticity. (English summary) **2005h:35353**
Bonnet, Marc (*with* Guzina, Bojan B.) Sounding of finite solid bodies by way of topological derivative. (English summary) **2005g:74070**
Braack, Malte *see* **Becker, Roland et al., 2005m:80005**
Burger, Martin *see* **Ben Ameur, Hend et al., 2005h:35353**
Capdeboscq, Yves (*with* Vogelius, Michael S.) Optimal asymptotic estimates for the volume of internal inhomogeneities in terms of multiple boundary measurements. (English summary) **2005c:35067**
Carey, Graham F. *see* **Anderson, Michael Lindsay et al., 2005m:76044**
Chaabane, S. (*with* Elhechmi, C.; Jaoua, Mohamed) A stable recovery method for the Robin inverse problem. (English summary) **2005b:35288**
Chan, Tony F. C. *see* **Chung, Eric T. et al., 2005m:78024**
Chapko, Roman (*with* Kress, Rainer) A hybrid method for inverse boundary value problems in potential theory. (English summary) **2005k:35423**
Chung, Eric T. (*with* Chan, Tony F. C.; Tai, Xue-Cheng) Electrical impedance tomography using level set representation and total variational regularization. (English summary) **2005m:78024**
Dulikravich, George S. *see* **Rodrigues, F. A. et al., 2005b:35301**
Elhechmi, C. *see* **Chaabane, S. et al., 2005b:35288**
Elliott, Lionel *see* **Marin, Liviu et al., 2005g:65095**
Fang, Weifu (*with* Lu, Mingying) A fast collocation method for an inverse boundary value problem. (English summary) **2005a:65140**
Fedulova, I. A. *see* **Hoffmann, Clemens et al.**
Gutman, Semion (*with* Ramm, Alexander G.) Modified Rayleigh conjecture method for multidimensional obstacle scattering problems. (English summary) **2005k:35428**
Guzina, Bojan B. *see* **Bonnet, Marc, 2005g:74070**
Haber, Eldad *see* **Ascher, U. M., 2005a:65148**
Hackl, Benjamin *see* **Ben Ameur, Hend et al., 2005h:35353**
Heggs, P. J. *see* **Marin, Liviu et al., 2005g:65095**
Hoffmann, Clemens (*with* Popov, A. M.; Pevtsov, S. E.; Fedulova, I. A.) Numerical solution of inverse mathematical problems of electroencephalography. (Russian)
Ingham, Derek B. *see* **Marin, Liviu et al., 2005g:65095**
Jaoua, Mohamed *see* **Chaabane, S. et al., 2005b:35288**
Jin, Bangti (*with* Zheng, Yao) Boundary knot method for some inverse problems associated with the Helmholtz equation. (English summary) **2005k:65269**
Johansson, Tomas An iterative procedure for solving a Cauchy problem for second order elliptic equations. (English summary) **2005g:65097**
Kaipio, Jari P. (*with* Somersalo, Erkki) ★ Statistical and computational inverse problems. **2005g:65001**
Kang, Hyeonbae *see* **Ammari, Habib et al., 2005m:78011**
Kim, Eunjoo *see* **Ammari, Habib et al., 2005m:78011**
Klibanov, Michael V. (*with* Timonov, A. A.) ★ Carleman estimates for coefficient inverse problems and numerical applications. **2005k:65107**
— (*with* Timonov, A. A.) A unified framework for constructing globally convergent algorithms for multidimensional coefficient inverse problems. (English summary) **2005h:65155**
Kress, Rainer Inverse Dirichlet problem and conformal mapping. (English summary) **2005b:35297**
— *see also* **Chapko, Roman, 2005k:35423**
Kügler, Philipp A parameter identification problem of mixed type related to the manufacture of car windshields. (English summary) **2005a:74080**
Lesnic, Daniel *see* **Marin, Liviu et al., 2005g:65095**
Li, Ji Chun Application of radial basis meshless methods to direct and inverse biharmonic boundary value problems. (English summary)
Lim, Mikyoung *see* **Ammari, Habib et al., 2005m:78011**
Lu, Mingying *see* **Fang, Weifu, 2005a:65140**
Malengier, B. Parameter identification in stationary groundwater flow problems in drainage basins. (English summary)
Marin, Liviu (*with* Elliott, Lionel; Heggs, P. J.; Ingham, Derek B.; Lesnic, Daniel; Wen, Xian Yun) Comparison of regularization methods for solving the Cauchy problem associated with the Helmholtz equation. (English summary) **2005g:65095**
Novruzi, Arian $C^{2,\alpha}$ existence result for a class of shape optimization problems. (English summary) **2005d:49062**
Orlande, Helcio R. B. *see* **Rodrigues, F. A. et al., 2005b:35301**
Pevtsov, S. E. *see* **Hoffmann, Clemens et al.**
Popov, A. M. *see* **Hoffmann, Clemens et al.**
Potthast, Roland A set-handling approach for the no-response test and related methods. (English summary) **2005c:35225**
Ramm, Alexander G. *see* **Gutman, Semion, 2005k:35428**
Rodrigues, F. A. (*with* Orlande, Helcio R. B.; Dulikravich, George S.) Simultaneous estimation of spatially dependent diffusion coefficient and source term in a nonlinear 1D diffusion problem. (English summary) **2005b:35301**
Somersalo, Erkki *see* **Kaipio, Jari P., 2005g:65001**
Tai, Xue-Cheng *see* **Chung, Eric T. et al., 2005m:78024**
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Abrashin, V. N. (*with* Čiegis, Raimondas; Pakalnytė, V.) Spectral stability analysis of one splitting iterative scheme. (English summary) (*see* **2005c:65004**)
Aman, M. (*with* Kerayechian, A.) Solving the Stokes problem by linear programming methods. (English summary) **2005f:65143**
Arioli, Mario (*with* Manzini, Gianmarco) Null space algorithm and spanning trees in solving Darcy's equation. (English summary) **2005e:65178**
— (*with* Loghin, D.; Wathen, Andrew J.) Stopping criteria for iterations in finite element methods. (English summary) **2005k:65233**
Axelsson, Axel Ove Holger (*with* Faragó, István; Karátson, János) On the application of preconditioning operators for nonlinear elliptic problems. **2005h:65196**
Bai, Yi La (*with* Liu, Bo[1]; Feng, En Min) Quasi multigrid preconditioned iteration method for a boundary value problem of an elliptic equation. (Chinese. English and Chinese summaries)
Blaheta, Radim (*with* Margenov, S.; Neytcheva, Maya) Uniform estimate of the constant in the strengthened CBS inequality for anisotropic non-conforming FEM systems. (English summary) **2005a:65119**
Brandt, Achi *see* **Livne, O. E., 2005d:65196**
Brown, Peter N. (*with* Vassilevski, Panayot S.; Woodward, Carol S.) On mesh-independent convergence of an inexact Newton-multigrid algorithm. (English summary) **2005k:65234**
Bychenkov, Yu. V. (*with* Chizhonkov, E. V.) On the solution of irregular problems with a saddle point. (Russian. Russian summary)
Cao, Zhi-Hao Fast iterative solution of stabilized Navier-Stokes systems. (English summary) **2005g:65160**
Chan, Tony F. C. *see* **Wan, W. L., 2005g:65161**
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Čiegis, Raimondas *see* **Abrashin, V. N. et al.,** (**2005c:65004**)
Efstathiou, Evridiki (*with* Gander, Martin J.) Why restricted additive Schwarz converges faster than additive Schwarz. (English summary) **2005c:65092**
Elman, Howard C. (*with* Loghin, D.; Wathen, Andrew J.) Preconditioning techniques for Newton's method for the incompressible Navier-Stokes equations. (English summary) **2005b:65121**
Erlangga, Y. A. (*with* Vuik, C.; Oosterlee, Cornelis W.) On a class of preconditioners for solving the discrete Helmholtz equation. (English summary) (*see* **2005b:00020**)
Faragó, István *see* **Axelsson, Axel Ove Holger et al., 2005h:65196**
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Gander, Martin J. *see* **Efstathiou, Evridiki, 2005c:65092**
Gerardo Giorda, L. (*with* le Tallec, Patrick; Nataf, Frédéric) A Robin-Robin preconditioner for strongly heterogeneous advection-diffusion problems. (*see* **2005f:65003**)
Giannoutakis, Konstantinos M. *see* **Gravvanis, George A.**
Gosselet, P. (*with* Rey, Christian) On a selective reuse of Krylov subspaces in Newton-Krylov approaches for nonlinear elasticity. (*see* **2005f:65003**)
Grasedyck, Lars Existence and computation of low Kronecker-rank approximations for large linear systems of tensor product structure. (English summary) **2005j:65130**
Gravvanis, George A. (*with* Giannoutakis, Konstantinos M.) Normalized explicit finite element approximate inverse preconditioning. (English summary)
Gu, Haiming (*with* Wu, Xiao Nan) Alternating-direction iterative technique for mixed finite element methods for Stokes equations. (English summary)
Gur'eva, Ya. L. (*with* Il'in, Valeriĭ Pavlovich) On the numerical solution of three-dimensional diffusion-convective boundary value problems. (Russian. Russian summary) **2005a:65120**
Hemker, Pieter W. (*with* Hoffmann, Walter; van Raalte, M. H.) Two-level Fourier analysis of a multigrid approach for discontinuous Galerkin discretization. (English summary) **2005d:65194**
Heys, J. J. (*with* Manteuffel, Thomas A.; McCormick, Stephen F.; Olson, Luke N.) Algebraic multigrid for higher-order finite elements. (English summary) **2005m:65247**
Hoffmann, Walter *see* **Hemker, Pieter W. et al., 2005d:65194**
Il'in, Valeriĭ Pavlovich *see* **Gur'eva, Ya. L., 2005a:65120**
Jimack, Peter K. *see* **Schneider, René, 2005m:65250**
Kanschat, Guido Block preconditioners for LDG discretizations of linear incompressible flow problems. (English summary) **2005m:65248**
Karátson, János Constructive Sobolev gradient preconditioning for semilinear elliptic systems. (English summary) **2005h:65197**
— *see also* **Axelsson, Axel Ove Holger et al., 2005h:65196**
Kerayechian, A. *see* **Aman, M., 2005f:65143**
Khoromskiĭ, B. N. Hierarchical matrix approximation to Green's function via boundary concentrated FEM. (English summary) **2005c:65093**
Koko, Jonas Newton's iteration with a conjugate gradient based decomposition method for an elliptic PDE with a nonlinear boundary condition. (English summary) **2005a:65121**
Korneev, Vadim G. Letter to the editors: "An almost optimal method for solving Dirichlet problems on decomposition subdomains of the hierarchical hp-version" [Differ. Uravn. **37** (2001), no. 7, 959–968, 1007; MR1887273 (2003e:65199)]. (Russian)
Krukier, Lev A. (*with* Lapshina, O. A.) Numerical comparison of variational methods for solving systems of linear algebraic equations obtained in the finite-difference approximation of the convection-diffusion equation. (Russian. English and Russian summaries) **2005d:65195**
Kuznetsov, Yuriĭ Alekseevich[1] Domain decomposition, fictitious domains, and distributed Lagrange multipliers. (English summary) (*see* **2005i:65006**)
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Lin, R. K. *see* **Sheu, Tony W. H., 2005j:65131**
Liu, Bo[1] *see* **Bai, Yi La et al.**
Livne, O. E. (*with* Brandt, Achi) Local mode analysis of multicolor and composite relaxation schemes. (English summary) **2005d:65196**
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Márkus, András The conjugate gradient method for 4th order nonlinear elliptic problems. **2005m:65249**

Mathioudakis, E. N. (*with* Papadopoulou, E. P.; Saridakis, Y. G.) Iterative solution of elliptic collocation systems on a cognitive parallel computer. (English summary) **2005h:65198**

Mayo, Anita Rapid, fourth order accurate solution of the steady Navier Stokes equations on general regions. (English summary) **2005k:65235**

Mazhar, Z. On high-performance block implicit procedure for the numerical solution of incompressible fluid flow problems. (English summary) (*see* **2005i:65006**)

McCormick, Stephen F. *see* **Heys, J. J. et al., 2005m:65247**

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Neytcheva, Maya *see* **Blaheta, Radim et al., 2005a:65119**

Olson, Luke N. *see* **Heys, J. J. et al., 2005m:65247**

Oosterlee, Cornelis W. *see* **Erlangga, Y. A. et al., (2005b:00020)**

Pakalnytė, V. *see* **Abrashin, V. N. et al., (2005c:65004)**

Pao, C. V. (*with* Lu, Xin[1]) Block monotone iterations for numerical solutions of fourth-order nonlinear elliptic boundary value problems. (English summary) **2005d:65197**

Papadopoulou, E. P. *see* **Mathioudakis, E. N. et al., 2005h:65198**

van Raalte, M. H. *see* **Hemker, Pieter W. et al., 2005d:65194**

Rey, Christian *see* **Gosselet, P., (2005f:65003)**

Saridakis, Y. G. *see* **Mathioudakis, E. N. et al., 2005h:65198**

Schneider, René (*with* Jimack, Peter K.) Efficient preconditioning of the discrete adjoint equations for the incompressible Navier-Stokes equations. (English summary) **2005m:65250**

Segal, August *see* **Vermolen, Fred J. et al., (2005j:65003)**

Sheu, Tony W. H. (*with* Lin, R. K.) On a high-order Newton linearization method for solving the incompressible Navier-Stokes equations. (English summary) **2005j:65131**

le Tallec, Patrick *see* **Gerardo Giorda, L. et al., (2005f:65003)**

Vassilevski, Panayot S. *see* **Brown, Peter N. et al., 2005k:65234**

Vermolen, Fred J. (*with* Vuik, Kees; Segal, August) Deflation acceleration parallel preconditioned conjugate gradient method in finite element problems. (English summary) (*see* **2005j:65003**)

Voskoboinikov, Yu. E. Analysis and synthesis of recurrent algorithms. Solutions of ill-conditioned linear algebraic system. (English summary) (*see* **2005i:65006**)

Vuik, C. *see* **Erlangga, Y. A. et al., (2005b:00020)**

Vuik, Kees *see* **Vermolen, Fred J. et al., (2005j:65003)**

Wan, W. L. (*with* Chan, Tony F. C.) A phase error analysis of multigrid methods for hyperbolic equations. (English summary) **2005g:65161**

Wathen, Andrew J. *see* **Elman, Howard C. et al., 2005b:65121** *and* **Arioli, Mario et al., 2005k:65233**

Woodward, Carol S. *see* **Brown, Peter N. et al., 2005k:65234**

Wu, Xiao Nan *see* **Gu, Haiming**

Zhang, Aishe (*with* Zhang, Ling) Performance of certain Krylov subspace methods for solving convection-diffusion equations. (English summary) **2005g:65162**

Zhang, Ling *see* **Zhang, Aishe, 2005g:65162**

Items with secondary classifications in 65N22

Adams, Loyce (*with* Chartier, Timothy P.) A comparison of algebraic multigrid and geometric immersed interface multigrid methods for interface problems. (English summary) **2005m:65052**

Ademoyero, O. O. (*with* Bartholomew-Biggs, Michael; Davies, Alan J.; Parkhurst, S. C.) Conjugate gradient algorithms and the Galerkin boundary element method. (English summary)

Agoshkov, V. I. Iterative processes for some boundary value problems of hydrodynamics. (English summary) **2005c:76070**

Aksoylu, Burak (*with* Bond, Stephen D.; Holst, M. J.) An odyssey into local refinement and multilevel preconditioning. III. Implementation and numerical experiments. (English summary) **2005i:65204**

Arioli, Mario A stopping criterion for the conjugate gradient algorithms in a finite element method framework. (English summary) **2005c:65021**

Arnal, Josep (*with* Migallón, Violeta; Penadés, José) Parallel Newton two-stage multisplitting iterative methods for nonlinear systems. (English summary) **2005d:65082**

Axelsson, Axel Ove Holger Improving additive and multiplicative preconditioners for two-level matrices by congruence transformations. (English summary) (*see* **2005i:65006**)

— (*with* Gur'eva, Ya. L.; Il'in, Valeriĭ Pavlovich) Iterative solution methods for 3D serendipity FEM. (*see* **2005i:65006**)

— (*with* Karátson, János) Superlinearly convergent CG methods via equivalent preconditioning for nonsymmetric elliptic operators. (English summary) **2005h:65040**

Bai, Zhong Zhi (*with* Li, Gui Qing; Lu, Lin Zhang) Combinative preconditioners of modified incomplete Cholesky factorization and Sherman-Morrison-Woodbury update for self-adjoint elliptic Dirichlet-periodic boundary value problems. (English summary) **2005g:65048**

Barth, Teri (*with* Bochev, Pavel B.; Gunzburger, Max D.; Shadid, John N.) A taxonomy of consistently stabilized finite element methods for the Stokes problem. (English summary) **2005c:76061**

Bartholomew-Biggs, Michael *see* **Ademoyero, O. O. et al.**

Bell, M. J. *see* **Brown, David Edward et al., 2005j:86005**

Benzi, Michele (*with* Gander, Martin J.; Golub, Gene H.) Optimization of the Hermitian and skew-Hermitian splitting iteration for saddle-point problems. (English summary) **2005e:65032**

Bertoluzza, Silvia Substructuring preconditioners for the three fields domain decomposition method. (English summary) **2005f:65044**

Bildik, Necdet (*with* Özlü, Sevil) On the numerical solution of Helmholtz equation by alternating group explicit (AGE) methods. (English summary) **2005j:65124**

Bochev, Pavel B. *see* **Barth, Teri et al., 2005c:76061**

Boglaev, Igor (*with* Duoba, Vic) Iterative domain decomposition algorithms for a convection-diffusion problem. (English summary) **2005d:65227**

Bond, Stephen D. *see* **Aksoylu, Burak et al., 2005i:65204**

Brown, David Edward (*with* Nichols, N. K.; Bell, M. J.) Preconditioners for inhomogeneous anisotropic problems in spherical geometry. (English summary) **2005j:86005**

Buzdin, A. (*with* Wittum, Gabriel) Two-frequency decomposition. (English summary) **2005d:65042**

Cai, Xiao-Chuan *see* **Hwang, Feng-Nan, 2005k:76096**

Calvetti, Daniela (*with* Landi, Germana; Reichel, Lothar; Sgallari, F.) Non-negativity and iterative methods for ill-posed problems. (English summary) **2005j:65044**

Catabriga, Lucia (*with* Coutinho, Alvaro L. G. A.; Franca, Leopoldo P.) Evaluating the LCD algorithm for solving linear systems of equations arising from implicit SUPG formulation of compressible flows. (English summary) **2005b:76081**

Chartier, Timothy P. *see* **Adams, Loyce, 2005m:65052**

Chen, Goong (*with* Englert, Berthold-Georg; Zhou, Jianxin) Convergence analysis of an optimal scaling algorithm for semilinear elliptic boundary value problems. (English summary) **2005j:65127**

Chen, Ren-Chuen (*with* Liu, Jinn-Liang) Monotone iterative methods for the adaptive finite element solution of semiconductor equations. (English summary) **2005c:65098**

Chiorean, Ioana Parallel methods for solving partial differential equations. (English summary)

Chizhonkov, E. V. *see* **Gorelova, M. V., 2005a:65033**

Clees, Tanja (*with* Stüben, Klaus) Algebraic multigrid for industrial semiconductor device simulation. (English summary) (*see* **2005a:65001**)

Coutinho, Alvaro L. G. A. *see* **Catabriga, Lucia et al., 2005b:76081**

Cui, Mingrong Analysis of iterative algorithms of Uzawa type for saddle point problems. (English summary) **2005e:65035**

Davies, Alan J. *see* **Ademoyero, O. O. et al.**

Dryja, Maksymilian (*with* Proskurowski, Wlodek) Dual preconditioners for mortar discretization of elliptic problems. (*see* **2005f:65003**)

— (*with* Gantner, A.; Widlund, Olof B.; Wohlmuth, Barbara I.) Multilevel additive Schwarz preconditioner for nonconforming mortar finite element methods. (English summary) **2005b:65139**

Duoba, Vic *see* **Boglaev, Igor, 2005d:65227**

Eck, Christof (*with* Wohlmuth, Barbara I.) Convergence of a contact-Neumann iteration for the solution of two-body contact problems. (English summary) **2005d:74025**

El Baz, Didier *see* **Spiteri, Pierre et al., 2005a:65151**

Englert, Berthold-Georg *see* **Chen, Goong et al., 2005j:65127**

Faragó, István (*with* Karátson, János) ★ Numerical solution of nonlinear elliptic problems via preconditioning operators: theory and applications. **2005g:65005**

Fedotov, Aleksander Evgenievich *see* **Karchevsky, Mikhail, 2005m:65270**

Finogenov, S. A. *see* **Lebedev, V. I., 2005i:65050**

Franca, Leopoldo P. *see* **Catabriga, Lucia et al., 2005b:76081**

Gander, Martin J. *see* **Benzi, Michele et al., 2005e:65032**

Gantner, A. *see* **Dryja, Maksymilian et al., 2005b:65139**

Glowinski, Roland (*with* Lapin, S. A.) Iterative solution of linear variational problems in Hilbert spaces: some conjugate gradients success stories. **2005h:65088**

Golub, Gene H. *see* **Benzi, Michele et al., 2005e:65032**

Gorelova, M. V. (*with* Chizhonkov, E. V.) On the solution of saddle problems by methods with model saddle operators on the upper layer. (Russian) **2005a:65033**

Guessous, Nagib (*with* Souhar, O.) Multilevel block ILU preconditioner for sparse nonsymmetric M-matrices. (English summary) **2005a:65034**

Gunzburger, Max D. *see* **Barth, Teri et al., 2005c:76061**

Gur'eva, Ya. L. *see* **Axelsson, Axel Ove Holger et al., (2005i:65006)**

Hazra, Subhendu Bikash (*with* Schulz, Volker) Simultaneous pseudo-timestepping for PDE-model based optimization problems. (English summary) **2005h:49076**

Holst, M. J. *see* **Aksoylu, Burak et al., 2005i:65204**

Huang, Wen Bin (*with* Xu, Chuan Ju) Analysis of a two-dimensional finite element preconditioned spectral element method for the Poisson equation. (Chinese. English and Chinese summaries)

Hwang, Feng-Nan (*with* Cai, Xiao-Chuan) A parallel nonlinear additive Schwarz preconditioned inexact Newton algorithm for incompressible Navier-Stokes equations. (English summary) **2005k:76096**

Ignat'eva, M. A. (*with* Kuznetsov, Yuriĭ Alekseevich[1]; Lapin, A. V.) Application of mixed hybrid elements in the solution of elliptic one-sided boundary value problems. (Russian) **2005k:65249**

— (*with* Lapin, A. V.) Iterative solution of a mixed hybrid finite element scheme for the Signorini problem. (English summary) **2005j:65142**

Il'in, Valeriĭ Pavlovich *see* **Axelsson, Axel Ove Holger et al., (2005i:65006)**

Jung, Michael[1] *see* **Kulshreshtha, Kshitij et al., 2005m:65271**

Karátson, János *see* **Faragó, István, 2005g:65005** *and* **Axelsson, Axel Ove Holger, 2005h:65040**

Karchevsky, Mikhail (*with* Fedotov, Aleksander Evgenievich) Error estimates and iterative procedure for mixed finite element solution of second-order quasi-linear elliptic problems. (English summary) **2005m:65270**

Kechroud, Riyad (*with* Soulaïmani, Azzeddine; Saad, Youcef) Preconditioning techniques for the solution of the Helmholtz equation by the finite element method. (English summary) (*see* **2005g:65009**)

Keller, Joseph B. *see* **Kim, Seongjai et al., 2005m:35055**

Kim, Seongjai (*with* Shin, Chang-Soo; Keller, Joseph B.) High-frequency asymptotics for the numerical solution of the Helmholtz equation. (English summary) **2005m:35055**

Klawonn, Axel (*with* Starke, Gerhard) A preconditioner for the equations of linear elasticity discretized by the PEERS element. (English summary) **2005a:74037**

Kügler, Philipp A derivative-free Landweber iteration for parameter identification in certain elliptic PDEs. (English summary) **2005e:65176**

Kulshreshtha, Kshitij (*with* Nataraj, Neela; Jung, Michael[1]) A parallel mixed finite element implementation of fourth-order plate bending problems in distributed memory environments. (English summary) **2005m:65271**

Kuznetsov, Yuriĭ Alekseevich[1] *see* **Ignat'eva, M. A. et al., 2005k:65249**

Landi, Germana *see* **Calvetti, Daniela et al., 2005j:65044**

Lapin, A. V. *see* **Ignat'eva, M. A. et al., 2005j:65142** *and* **2005k:65249**

Lapin, S. A. *see* **Glowinski, Roland, 2005h:65088**

Lasser, Caroline (*with* Toselli, Andrea) An overlapping domain decomposition preconditioner for a class of discontinuous Galerkin approximations of advection-diffusion problems. (English summary) **2005b:65140**

Lebedev, V. I. (*with* Finogenov, S. A.) On construction of the stable permutations of parameters for the Chebyshev iterative methods. II. (English summary) **2005i:65050**
Lee, Young-Ju (*with* Xu, Jin Chao; Zikatanov, Ludmil) Successive subspace correction method for singular system of equations. (*see* **2005f:65003**)
Li, Chun Guang (*with* Vuik, C.) Eigenvalue analysis of the SIMPLE preconditioning for incompressible flow. (English summary) **2005a:76046**
Li, Gui Qing *see* **Bai, Zhong Zhi et al., 2005g:65048**
Li, Jing-Rebecca A dual-primal FETI method for solving Stokes/Navier-Stokes equations. (*see* **2005f:65003**)
Liu, Jinn-Liang *see* **Chen, Ren-Chuen, 2005c:65098**
Louter-Nool, Margreet (*with* Proot, Michael M. J.) A parallel least-squares spectral element solver for incompressible flow problems on unstructured grids. (English summary) **2005m:65290**
Lu, Lin Zhang *see* **Bai, Zhong Zhi et al., 2005g:65048**
Lui, S. H. Nonlinearly preconditioned Newton's method. (*see* **2005f:65003**)
Miellou, Jean-Claude *see* **Spiteri, Pierre et al., 2005a:65151**
Migallón, Violeta *see* **Arnal, Josep et al., 2005d:65082**
Mihajlović, Milan D. *see* **Silvester, David J., 2005a:65150**
Nabben, R. (*with* Vuik, C.) A comparison of deflation and coarse grid correction applied to porous media flow. (English summary) **2005k:65071**
Nataraj, Neela *see* **Kulshreshtha, Kshitij et al., 2005m:65271**
Ng, Michael K. (*with* Serra Capizzano, Stefano; Tablino Possio, Cristina) Numerical behaviour of multigrid methods for symmetric sinc-Galerkin systems. (English summary) **2005k:65258**
Nichols, N. K. *see* **Brown, David Edward et al., 2005j:86005**
Nikolaev, E. S. A new version of the marching method for solving boundary value problems for elliptic equations in regular domains. (Russian. Russian summary) **2005a:65115**
Nochetto, Ricardo H. (*with* Pyo, Jae-Hong) Optimal relaxation parameter for the Uzawa method. (English summary) **2005h:65052**
Ol'shanskiĭ, M. A. (*with* Reusken, Arnold) Grad-div stabilization for Stokes equations. (English summary) **2005a:65137**
— (*with* Reusken, Arnold) Convergence analysis of a multigrid method for a convection-dominated model problem. (English summary) **2005j:65033**
Özlü, Sevil *see* **Bildik, Necdet, 2005j:65124**
Parkhurst, S. C. *see* **Ademoyero, O. O. et al.**
Penadés, José *see* **Arnal, Josep et al., 2005d:65082**
Powell, Catherine Elizabeth (*with* Silvester, David J.) Black-box preconditioning for mixed formulation of self-adjoint elliptic PDEs. (English summary) (*see* **2005a:65001**)
— (*with* Silvester, David J.) Optimal preconditioning for Raviart-Thomas mixed formulation of second-order elliptic problems. (English summary) **2005h:65054**
Proot, Michael M. J. *see* **Louter-Nool, Margreet, 2005m:65290**
Proskurowski, Wlodek *see* **Dryja, Maksymilian, (2005f:65003)**
Pyo, Jae-Hong *see* **Nochetto, Ricardo H., 2005h:65052**
Reichel, Lothar *see* **Calvetti, Daniela et al., 2005j:65044**
Reusken, Arnold *see* **Ol'shanskiĭ, M. A., 2005a:65137** *and* **2005j:65033**
Saad, Youcef *see* **Kechroud, Riyad et al., (2005g:65009)**
Sala, Marzio Analysis of two-level domain decomposition preconditioners based on aggregation. (English summary) **2005k:65277**
Salem, Salem A. Numerical simulations for the contraction flow using grid generation. (English summary) **2005c:76069**
Schulz, Volker *see* **Hazra, Subhendu Bikash, 2005h:49076**
Serra Capizzano, Stefano (*with* Tablino Possio, Cristina) Superlinear preconditioners for finite differences linear systems. (English summary) **2005k:65073**
— *see also* **Ng, Michael K. et al., 2005k:65258**
Sgallari, F. *see* **Calvetti, Daniela et al., 2005j:65044**
Shadid, John N. *see* **Barth, Teri et al., 2005c:76061**
Shin, Chang-Soo *see* **Kim, Seongjai et al., 2005m:35055**
Shu, Shi *see* **Tan, Min[2] et al.**
Silvester, David J. (*with* Mihajlović, Milan D.) A black-box multigrid preconditioner for the biharmonic equation. (English summary) **2005a:65150**
— *see also* **Powell, Catherine Elizabeth, 2005h:65054** *and* **(2005a:65001)**
Sorokin, S. B. Step-by-step inversion method for discrete conjugate-operator models of mathematical physics problems. (English summary) (*see* **2005i:65006**)
Souhar, O. *see* **Guessous, Nagib, 2005a:65034**
Soulaïmani, Azzeddine *see* **Kechroud, Riyad et al., (2005g:65009)**
Spiteri, Pierre (*with* Miellou, Jean-Claude; El Baz, Didier) Parallel asynchronous Schwarz and multisplitting methods for a nonlinear diffusion problem. (English summary) **2005a:65151**
Starke, Gerhard *see* **Klawonn, Axel, 2005a:74037**
Stüben, Klaus *see* **Clees, Tanja, (2005a:65001)**
Tablino Possio, Cristina *see* **Serra Capizzano, Stefano, 2005k:65073** *and* **Ng, Michael K. et al., 2005k:65258**
Tan, Min[2] (*with* Xiao, Ying Xiong; Shu, Shi) An algebraic multigrid method on anisotropic quadrilateral grid. (Chinese. English and Chinese summaries)
Toselli, Andrea *see* **Lasser, Caroline, 2005b:65140**
Vuik, C. *see* **Li, Chun Guang, 2005a:76046** *and* **Nabben, R., 2005k:65071**
Wang, Tong Ke A mixed finite volume element method based on rectangular mesh for biharmonic equations. (English summary) **2005h:65190**
Widlund, Olof B. *see* **Dryja, Maksymilian et al., 2005b:65139**
Wittum, Gabriel *see* **Buzdin, A., 2005d:65042**
Wohlmuth, Barbara I. *see* **Dryja, Maksymilian et al., 2005b:65139** *and* **Eck, Christof, 2005d:74025**
Xiao, Ying Xiong *see* **Tan, Min[2] et al.**
Xu, Chuan Ju *see* **Huang, Wen Bin**
Xu, Jin Chao *see* **Lee, Young-Ju et al., (2005f:65003)**
Zhang, Sheng[2] Preconditioned GMRES methods for discretization equation of nonsymmetric and indefinite elliptic problem. (English summary) **2005k:65076**
Zhao, Hong-Kai A fast sweeping method for eikonal equations. (English summary) **2005k:65222**
Zhou, Jianxin *see* **Chen, Goong et al., 2005j:65127**
Zikatanov, Ludmil *see* **Lee, Young-Ju et al., (2005f:65003)**

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Andreev, A. B. Superclose property and application for fourth-order eigenvalue problems. (English summary) **2005h:65199**
— (*with* Todorov, Todor Dimitrov[2]) Isoparametric finite-element approximation of a Steklov eigenvalue problem. (English summary) **2005a:65123**
Armentano, María G. (*with* Durán, Ricardo G.) Asymptotic lower bounds for eigenvalues by nonconforming finite element methods. (English summary) **2005d:65198**
— The effect of reduced integration in the Steklov eigenvalue problem. (English summary) **2005h:65200**
Cao, Li-Qun (*with* Cui, Jun Zhi) Asymptotic expansions and numerical algorithms of eigenvalues and eigenfunctions of the Dirichlet problem for second order elliptic equations in perforated domains. (English summary) **2005a:65124**
Coyle, Joe (*with* Ledger, P. D.) Evidence of exponential convergence in the computation of Maxwell eigenvalues. (English summary) **2005i:65171**
Crampton, A. *see* **Talbot, C. J., 2005m:65252**
Cui, Jun Zhi *see* **Cao, Li-Qun, 2005a:65124**
Driscoll, Tobin A. *see* **Platte, R. B., 2005m:65251**
Durán, Ricardo G. *see* **Armentano, María G., 2005d:65198**
Genseberger, M. (*with* Sleijpen, Gerard L. G.; van der Vorst, Henk A.) An optimized Schwarz method in the Jacobi-Davidson method for eigenvalue problems. (*see* **2005f:65003**)
Grinfeld, P. (*with* Strang, Gilbert) The Laplacian eigenvalues of a polygon. (English summary) **2005i:65172**
Haber, Eldad A multilevel, level-set method for optimizing eigenvalues in shape design problems. (English summary) **2005g:65163**
Hu, Jun (*with* Huang, Yun Qing; Shen, Hongmei) The lower approximation of eigenvalue by lumped mass finite element method. (English summary) **2005h:65201**
Huang, Jin[1] (*with* Lü, Tao) The mechanical quadrature methods and their extrapolation for solving BIE of Steklov eigenvalue problems. (English summary) **2005h:65202**
Huang, Yun Qing *see* **Hu, Jun et al., 2005h:65201**
Ledger, P. D. *see* **Coyle, Joe, 2005i:65171**
Lü, Tao *see* **Huang, Jin[1], 2005h:65202**
Oudet, Édouard Numerical minimization of eigenmodes of a membrane with respect to the domain. (English summary) **2005f:65144**
Platte, R. B. (*with* Driscoll, Tobin A.) Computing eigenmodes of elliptic operators using radial basis functions. (English summary) **2005m:65251**
Shen, Hongmei *see* **Hu, Jun et al., 2005h:65201**
Sleijpen, Gerard L. G. *see* **Genseberger, M. et al., (2005f:65003)**
Strang, Gilbert *see* **Grinfeld, P., 2005i:65172**
Szabó, Zsuzsanna On the multi-grid iteration for the eigenvalue problem and the degree of interpolation which it requires. I. (English summary)
Talbot, C. J. (*with* Crampton, A.) Application of the pseudo-spectral method to 2D eigenvalue problems in elasticity. (English summary) **2005m:65252**
Todorov, Todor Dimitrov[2] *see* **Andreev, A. B., 2005a:65123**
Urakawa, Hajime The Dirichlet eigenvalue problem, the finite element method and graph theory. (English summary) **2005f:65145**
van der Vorst, Henk A. *see* **Genseberger, M. et al., (2005f:65003)**

Items with secondary classifications in 65N25

Algazin, S. D. On the computation of the eigenvalues of the transport equation. (Russian. Russian summary) **2005a:76150**
Barrientos, Mauricio A. (*with* Gatica, Gabriel N.; Rodríguez, Rodolfo; Torrejón, Marcela E.) Analysis of a coupled BEM/FEM eigensolver for the hydroelastic vibrations problem. (English summary) **2005m:74040**
Bennighof, Jeffrey K. (*with* Lehoucq, Richard B.) An automated multilevel substructuring method for eigenspace computation in linear elastodynamics. (English summary) **2005c:74030**
Boffi, Daniele (*with* Gastaldi, Lucia) Analysis of finite element approximation of evolution problems in mixed form. (English summary) **2005k:65199**
Buongiorno Nardelli, Marco *see* **Fattebert, Jean-Luc, (2005c:81001)**
Chen, Zhi Ming[1] (*with* Yuan, Jian-hua) On finite element methods for inhomogeneous dielectric waveguides. (English summary) **2005d:65206**
De Schepper, Hennie Finite element approximation of a 2D-1D contact eigenvalue problem. (English summary) **2005f:65147**
Fattebert, Jean-Luc (*with* Buongiorno Nardelli, Marco) Finite difference methods for ab initio electronic structure and quantum transport calculations of nanostructures. (*see* **2005c:81001**)
Gastaldi, Lucia *see* **Boffi, Daniele, 2005k:65199**
Gatica, Gabriel N. *see* **Barrientos, Mauricio A. et al., 2005m:74040**
Geuzaine, Christophe A. *see* **Nicolet, André et al.**
Guenneau, Sébastien *see* **Nicolet, André et al.**
Hassani, Riad (*with* Hild, Patrick; Ionescu, Ioan R.) Sufficient conditions of non-uniqueness for the Coulomb friction problem. (English summary) **2005a:74070**
Hernández, Erwin (*with* Rodríguez, Rodolfo) Finite element approximation of spectral acoustic problems on curved domains. (English summary) **2005c:76063**
Hesthaven, Jan S. (*with* Warburton, Timothy) High-order nodal discontinuous Galerkin methods for the Maxwell eigenvalue problem. (English summary)
Hild, Patrick *see* **Hassani, Riad et al., 2005a:74070**
Horák, Jiří (*with* Reichel, Wolfgang) Analytical and numerical results for the Fučík spectrum of the Laplacian. (English summary) **2005d:35195**
Hwang, Tsung-Min (*with* Lin, Wen Wei; Wang, Wei-Cheng; Wang, Weichung) Numerical simulation of three dimensional pyramid quantum dot. (English summary) **2005a:81057**
Ionescu, Ioan R. (*with* Wolf, Sylvie) Interaction of faults under slip-dependent friction. Non-linear eigenvalue analysis. (English summary) **2005h:74046**
— *see also* **Hassani, Riad et al., 2005a:74070**

Kalogiratou, Z. (*with* Monovasilis, Th.; Simos, T. E.) Numerical solution of the two-dimensional time independent Schrödinger equation with Numerov-type methods. (English summary)

Labrosse, Gérard *see* **Leriche, E., 2005e:76031** *and* **2005m:76056**

Larin, Maxim On multigrid eigensolver for linear elasticity problems. (English summary) (*see* **2005i:65006**)

Lehoucq, Richard B. *see* **Bennighof, Jeffrey K., 2005c:74030**

Leriche, E. (*with* Labrosse, Gérard) Stokes eigenmodes in square domain and the stream function-vorticity correlation. (English summary) **2005e:76031**

— (*with* Labrosse, Gérard) Fundamental Stokes eigenmodes in the square: which expansion is more accurate, Chebyshev or Reid-Harris? (English summary) **2005m:76056**

Lin, Wen Wei *see* **Hwang, Tsung-Min et al., 2005a:81057**

Livshits, I. Z. An algebraic multigrid wave-ray algorithm to solve eigenvalue problems for the Helmholtz operator. (English summary) **2005e:65042**

Minamoto, Teruya Numerical method with guaranteed accuracy of a double turning point for a radially symmetric solution of the perturbed Gelfand equation. (English summary) **2005h:65254**

Monovasilis, Th. *see* **Kalogiratou, Z. et al.**

Nagatou, K. A computer-assisted proof on the stability of the Kolmogorov flows of incompressible viscous fluid. (English summary) **2005c:76047**

Nicolet, André (*with* Guenneau, Sébastien; Geuzaine, Christophe A.; Zolla, Frédéric) Modelling of electromagnetic waves in periodic media with finite elements. (English summary)

Olagunju, David O. A fourth-order eigenvalue problem arising in viscoelastic flow. (English summary)

Prikazchikov, V. G. Two-sided estimates for the eigenvalues of an elliptic operator. (Russian. Russian summary) **2005m:35072**

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Hoàng, Viêt Hà (*with* Schwab, Christoph) High-dimensional finite elements for elliptic problems with multiple scales. (English summary) **2005m:65267**
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Horák, David *see* **Dostál, Zdeněk, 2005c:65100**
Hou, Thomas Yizhao (*with* Wu, Xiao-Hui; Zhang, Yu[4]) Removing the cell resonance error in the multiscale finite element method via a Petrov-Galerkin formulation. (English summary) **2005m:65268**
— *see also* **Efendiev, Yalchin R. et al., 2005m:65265**
Houston, Paul (*with* Perugia, Ilaria; Schneebeli, Anna; Schötzau, Dominik) Discontinuous Galerkin methods for the time-harmonic Maxwell equations. (English summary) (*see* **2005j:65003**)
— (*with* Schötzau, Dominik; Wihler, Thomas P.) Mixed hp-discontinuous Galerkin finite element methods for the Stokes problem in polygons. (English summary) (*see* **2005j:65003**)
— (*with* Perugia, Ilaria; Schötzau, Dominik) Mixed discontinuous Galerkin approximation of the Maxwell operator. (English summary) **2005b:65128**
— (*with* Süli, Endre) A note on the design of hp-adaptive finite element methods for elliptic partial differential equations. (English summary) **2005h:65211**
Hu, Hsin-Yun (*with* Li, Zi-Cai) Verification of reduced convergence rates. (English summary)
Hu, Jun (*with* Huang, Yun Qing; Xue, Wei Min[1]) An optimal error estimate for an h-p clouds Galerkin method. (English summary) **2005c:65102**
Hu, Qi Ya (*with* Zou, Jun) A nonoverlapping domain decomposition method for Maxwell's equations in three dimensions. (English summary) **2005a:65131**
— A non-conforming domain decomposition for Raviart-Thomas vector fields in three dimensions. (English summary) **2005f:65150**
Huang, Jian Guo *see* **Du, Chen Wei et al., 2005c:65101** *and* **Chen, Wen Bin et al., 2005f:65146**
Huang, Wei Zhang[1] Convergence analysis of finite element solution of one-dimensional singularly perturbed differential equations on equidistributing meshes. (English summary) **2005j:65141**
Huang, Yun Qing (*with* Shu, Shi; Yu, Hai Yuan) Superconvergence and asymptotic expansions for linear finite element approximations on criss-cross mesh. (English summary) **2005f:65151**
— *see also* **Hu, Jun et al., 2005c:65102**
Huerta, Antonio *see* **Vidal, Yolanda et al., 2005i:65192**
Ignat'eva, M. A. (*with* Kuznetsov, Yurīĭ Alekseevich[1]; Lapin, A. V.) Application of mixed hybrid elements in the solution of elliptic one-sided boundary value problems. (Russian) **2005k:65249**
— (*with* Lapin, A. V.) Iterative solution of a mixed hybrid finite element scheme for the Signorini problem. (English summary) **2005j:65142**
Ilanko, Sinniah (*with* Tucker, Alan Sinclair) The use of negative penalty functions in solving partial differential equations. (English summary)
Jeon, Youngmok (*with* Sheen, Dongwoo) Analysis of a cell boundary element method. (English summary) **2005k:65250**
— (*with* Park, Eun-Jae; Sheen, Dongwoo) A cell boundary element method for elliptic problems. (English summary) **2005k:65251**
Jin, Jicheng (*with* Wu, Xiao Nan) The singular finite element method for some elliptic boundary value problem with interface. (English summary) **2005e:65185**
— *see also* **Wu, Xiao Nan, 2005i:65193**
Jódar, Lucas *see* **Rodríguez-Mattalia, S. et al., 2005m:65281**
John, Volker (*with* Matthies, Gunar) MooNMD—a program package based on mapped finite element methods. (English summary) **2005a:65132**
Jung, Chang-Yeol Numerical approximation of two-dimensional convection-diffusion equations with boundary layers. (English summary) **2005k:65252**
Jung, Michael[1] *see* **Kulshreshtha, Kshitij et al., 2005m:65271**
Jüngel, Ansgar (*with* Unterreiter, Andreas) Discrete minimum and maximum principles for finite element approximations of non-monotone elliptic equations. (English summary) **2005m:65269**
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Kanschat, Guido *see* **Cockburn, Bernardo et al., 2005g:65168**
Karátson, János (*with* Korotov, Sergey) Discrete maximum principles for finite element solutions of nonlinear elliptic problems with mixed boundary conditions. (English summary) **2005k:65253**
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Kechroud, Riyad (*with* Soulaïmani, Azzeddine; Saad, Youcef) Preconditioning techniques for the solution of the Helmholtz equation by the finite element method. (English summary) (*see* **2005g:65009**)
Keese, Andreas *see* **Matthies, Hermann G., 2005j:65146**
Kharrat, Nizar (*with* Mghazli, Zoubida) Residual error estimators for the time-dependent Stokes equations. (English and French summaries)
Kim, Sang Dong (*with* Shin, Byeong Chun; Kim, Seokchan; Woo, Gyungsoo) Discrete minus one norm least-squares for the stress formulation of linear elasticity with numerical results. (English summary) **2005h:65212**
Kim, Seokchan *see* **Kim, Sang Dong et al., 2005h:65212**
Kim, Soohyun *see* **Lee, Hyung-Chun, 2005g:65174**
Kirby, Robert C. Algorithm 839: FIAT, a new paradigm for computing finite element basis functions. (English summary)
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Korotov, Sergey (*with* Křížek, Michal) Discrete maximum principles in finite element modelling. (English summary) (*see* **2005j:65003**)
— *see also* **Karátson, János, 2005k:65253**
Korsawe, Johannes *see* **Cai, Zhiqiang et al., 2005i:65181**
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Kulshreshtha, Kshitij (*with* Nataraj, Neela; Jung, Michael[1]) A parallel mixed finite element implementation of fourth-order plate bending problems in distributed memory environments. (English summary) **2005m:65271**
Kumar, V. V. K. Srinivas (*with* Ratish Kumar, B. V.; Das, P. C.) A new class of stabilized mesh-free finite elements for the approximation of the Stokes problem. (English summary) **2005g:65170**
Kuznetsov, Yurīĭ Alekseevich[1] (*with* Repin, S. I.) Mixed finite element method on polygonal and polyhedral meshes. (English summary) (*see* **2005j:65003**)
— (*with* Repin, S. I.) Convergence analysis and error estimates for mixed finite element method on distorted meshes. (English summary) **2005m:65272**
— *see also* **Ignat'eva, M. A. et al., 2005k:65249**
Laborde, Patrick *see* **Slimane, Leila et al., 2005f:65157**
Lacoste, Patrick La condensation de la matrice masse, ou mass-lumping, pour les éléments finis mixtes de Raviart-Thomas-Nédélec d'ordre 1. (English and French summaries) [Mass-lumping for first-order Raviart-Thomas-Nédélec mixed finite elements]
Laghrouche, Omar (*with* Bettess, Peter; Trevelyan, Jon) Three dimensional plane wave basis finite elements for short wave modelling. (English summary) (*see* **2005b:00020**)
— (*with* Bettess, Peter; Perrey-Debain, Emmanuel; Trevelyan, Jon) Wave interpolation finite elements for Helmholtz problems with jumps in the wave speed. (English summary) **2005h:65214**
Lai, Ming-Jun (*with* Le Méhauté, Alain) A new kind of trivariate C^1 macro-element. (English summary) **2005c:65103**
Lam, Kwok-Yan *see* **Wang, Q. X. et al.**
Lamichhane, Bishnu P. (*with* Wohlmuth, Barbara I.) Mortar finite elements for interface problems. (English summary) **2005g:65171**
— (*with* Wohlmuth, Barbara I.) A quasi-dual Lagrange multiplier space for serendipity mortar finite elements in 3D. (English summary) **2005g:65172**
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Lapin, A. V. *see* **Ignat'eva, M. A. et al., 2005j:65142** *and* **2005k:65249**
Larson, Mats G. (*with* Niklasson, A. Jonas) Analysis of a family of discontinuous Galerkin methods for elliptic problems: the one dimensional case. (English summary) **2005i:65188**
— (*with* Niklasson, A. Jonas) Analysis of a nonsymmetric discontinuous Galerkin method for elliptic problems: stability and energy error estimates. (English summary) **2005g:65173**

Lee, Barry *see* **Cai, Zhiqiang et al., 2005i:65180**
Lee, Hyung-Chun (*with* Kim, Soohyun) Finite element approximation and computations of optimal Dirichlet boundary control problems for the Boussinesq equations. (English summary) **2005g:65174**
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Le Gia, Q. T. Galerkin approximation for elliptic PDEs on spheres. (English summary) **2005h:65215**
— The $L^2(S^n)$ error estimate for the Galerkin method for elliptic PDEs on spheres. (English summary) **2005k:65254**
Lei, Jun Li *see* **Lin, Jia Fu**
Le Méhauté, Alain *see* **Lai, Ming-Jun, 2005c:65103**
Li, Changjun[1] *see* **Zhang, Tie et al., 2005f:65160**
Li, Hua[4] *see* **Wang, Q. X. et al.**
Li, Ji Chun Application of radial basis meshless methods to direct and inverse biharmonic boundary value problems. (English summary)
Li, Li-kang *see* **Bi, Chun-jia, 2005a:65126** *and* **2005c:65095**
Li, Lu Xian (*with* Han, X.-P.; Xu, Song Qing) Study on the degeneration of quadrilateral element to triangular element. (English summary)
Li, Qi Sheng[2] *see* **Liu, Zhen[3] et al., 2005a:65135**
Li, Shaofan (*with* Lu, Hongsheng; Han, Weimin; Liu, Wing Kam; Simkins, Daniel C., Jr.) Reproducing kernel element method. II. Globally conforming I^m/C^n hierarchies. (English summary) **2005a:65133**
— *see also* **Liu, Wing Kam et al., 2005a:65134; Lu, Hongsheng et al., 2005a:65136** *and* **Simkins, Daniel C., Jr. et al., 2005a:65139**
Li, Zhi Lin[1] (*with* Lin, Tao[1]; Wu, Xiao-Hui) New Cartesian grid methods for interface problems using the finite element formulation. (English summary) **2005c:65104**
— (*with* Lin, Tao[1]; Lin, Yan Ping; Rogers, R. C.) An immersed finite element space and its approximation capability. (English summary) **2005f:65153**
Li, Zhiping A regularized mesh transformation method for the computation of crystalline microstructures. (English summary) **2005m:65273**
Li, Zi-Cai *see* **Hu, Hsin-Yun**
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Lin, Jia Fu (*with* Lin, Qun[1]) Superconvergence of a mixed finite element approximation for a Stokes problem. (Chinese. English and Chinese summaries) **2005k:65255**
— (*with* Lei, Jun Li) Multi-parameter extrapolation of the Hood-Taylor elements for the Stokes problem. (Chinese. English and Chinese summaries)
— (*with* Lin, Qun[1]) Extrapolation of the Hood-Taylor elements for the Stokes problem. (English summary) **2005m:65274**
Lin, Qun[1] (*with* Tobiska, Lutz; Zhou, Aihui) Superconvergence and extrapolation of non-conforming low order finite elements applied to the Poisson equation. (English summary) **2005k:65256**
— *see also* **Luo, Ping[1], 2005c:65105; Lin, Jia Fu, 2005k:65255** *and* **2005m:65274**
Lin, Runchang (*with* Zhang, Zhi Min[2]) Natural superconvergent points of triangular finite elements. (English summary) **2005f:65154**
— *see also* **Zhang, Zhi Min[2], 2005i:65195**
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Liu, Gui-Rong *see* **Gu, Yuantong**
Liu, JianFei *see* **Sun, Shu Li[2], 2005f:65158**
Liu, Jing Hong (*with* Zhu, Qi Ding) Uniform superapproximation of the derivative of tetrahedral quadratic finite element approximation. (English summary) **2005m:65275**
Liu, Jinn-Liang *see* **Chen, Ren-Chuen, 2005c:65098**
Liu, Li Ping[2] (*with* Davies, Kevin B.; Yuan, Kewei; Křížek, Michal) On symmetric pyramidal finite elements. (English summary) **2005h:65217**
Liu, Wing Kam (*with* Han, Weimin; Lu, Hongsheng; Li, Shaofan; Cao, Jian[2]) Reproducing kernel element method. I. Theoretical formulation. (English summary) **2005a:65134**
— *see also* **Li, Shaofan et al., 2005a:65133; Lu, Hongsheng et al., 2005a:65136** *and* **Simkins, Daniel C., Jr. et al., 2005a:65139**
Liu, Yan (*with* Zhang, Xiong[1]; Lu, Ming Wan) Meshless least-squares method for solving the steady-state heat conduction equation. (English summary)
Liu, Zhen[3] (*with* Bai, Yong-Qiang; Li, Qi Sheng[2]; Wu, Ke[1]) Symplectic and multisymplectic schemes with the simple finite element method. (English summary) **2005a:65135**
Lo, D. C. *see* **Murugesan, Krishnan et al.**
Lonsing, Marco (*with* Verfürth, Rüdiger) A posteriori error estimators for mixed finite element methods in linear elasticity. (English summary) **2005j:65144**
— (*with* Verfürth, Rüdiger) On the stability of BDMS and PEERS elements. (English summary) **2005j:65145**
Lorong, P. *see* **Yvonnet, J. et al., 2005b:65131**
Loula, Abimael F. D. *see* **Silva, Rita C. C., 2005k:65261**
Lu, Hongsheng (*with* Li, Shaofan; Simkins, Daniel C., Jr.; Liu, Wing Kam) Reproducing kernel element method. III. Generalized enrichment and applications. (English summary) **2005a:65136**
— *see also* **Li, Shaofan et al., 2005a:65133; Liu, Wing Kam et al., 2005a:65134** *and* **Simkins, Daniel C., Jr. et al., 2005a:65139**
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Luo, Ping[1] (*with* Lin, Qun[1]) Accuracy analysis of the Adini element for biharmonic equation. (English summary) **2005c:65105**
Ma, Chang Feng Convergence of an alternating A-φ scheme for quasi-magnetostatic eddy current problem. (English summary) **2005h:65218**
Maday, Yvon *see* **Ben Abdallah, Adnene et al., 2005g:65165**
Maharavo Randrianarivony, H. Anisotropic finite elements for the Stokes problem: a posteriori error estimator and adaptive mesh. (English summary) **2005f:65155**
Maischak, Matthias (*with* Stephan, Ernst P.) A least squares coupling method with finite elements and boundary elements for transmission problems. (English summary) **2005h:65219**
— *see also* **Gatica, Gabriel N., 2005m:65266**
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Martin, Olga A numerical solution of a two-dimensional transport equation. (English summary) **2005i:65189**
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Matthies, Hermann G. (*with* Keese, Andreas) Galerkin methods for linear and nonlinear elliptic stochastic partial differential equations. (English summary) **2005j:65146**
Mazaheri-Body, Kiumars *see* **Darbandi, Masoud et al.,** (**2005j:65003**)
Mazzia, Annamaria (*with* Pini, Giorgio; Putti, Mario; Sartoretto, Flavio) Comparison of 3D flow fields arising in mixed and standard unstructured finite elements. (English summary) (*see* **2005c:00014**)
McCormick, Stephen F. *see* **De Sterck, H. et al., 2005m:65263**
Meddahi, Salim (*with* Márquez Gentil, Antonio; Selgas, Virginia) Computing acoustic waves in an inhomogeneous medium of the plane by a coupling of spectral and finite elements. (English summary) **2005b:65129**
Mefire, Séraphin M. Exponential mesh approximations for a 3D exterior problem in magnetic induction. (English summary) **2005i:65190**
Mehdizadeh, Omid Z. (*with* Paraschivoiu, Marius) Investigation of a three-dimensional spectral element method for Helmholtz's equation. (English summary) (*see* **2005g:65009**)
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Movchan, Alexander *see* **Guenneau, Sébastien et al.**
Mozolevskiĭ, I. E. (*with* Süli, Endre) A priori error analysis for the hp-version of the discontinuous Galerkin finite element method for the biharmonic equation. (English summary) **2005c:65106**
Murugesan, Krishnan (*with* Lo, D. C.; Young, Der-Liang) An efficient global matrix free finite element algorithm for 3D flow problems. (English summary)
Mustapha, K. *see* **Bialecki, Bernard et al., 2005a:65127**
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Nedoma, Jiří (*with* Hlaváček, Ivan; Daněk, Josef; Vavřík, P.; Stehlík, J.; Denk, Frantisek) Some recent results on a domain decomposition method in biomechanics of human joints. (English summary) (*see* **2005g:65008**)
Neuberger, John M. GNGA: recent progress and open problems for semilinear elliptic PDE. (English summary) **2005j:65147**
Ng, Michael K. (*with* Serra Capizzano, Stefano; Tablino Possio, Cristina) Numerical behaviour of multigrid methods for symmetric sinc-Galerkin systems. (English summary) **2005k:65258**
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— *see also* **Gelhard, Tobias et al., 2005j:65140**
Olson, Luke N. *see* **De Sterck, H. et al., 2005m:65263**
Pal'tsev, B. V. (*with* Chechel', I. I.) On finite element approximations, which are of linear and second-order accuracy up to poles type, of the Laplace-Beltrami, gradient, and divergence operators on a sphere in $\mathbb{R}^3$ in the axisymmetric case. (Russian) **2005m:65277**
Pan, Xiaofei (*with* Zhang, Xiong[1]; Lu, Ming Wan) Meshless Galerkin least-squares method. (English summary) **2005m:65278**
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Pastor, Manuel (*with* Mira, Pablo) Steady state problems of elliptic type. (*see* **2005b:74003**)
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Perugia, Ilaria (*with* Schötzau, Dominik; Warsa, James) On a discontinuous Galerkin method for radiation-diffusion problems. (English summary) (*see* **2005j:65003**)
— *see also* **Houston, Paul et al., 2005b:65128** *and* **(2005j:65003)**
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Plexousakis, Michael (*with* Zouraris, Georgios E.) On the construction and analysis of high order locally conservative finite volume-type methods for one-dimensional elliptic problems. (English summary) **2005m:65279**

Pokern, Yvo *see* **Alouges, François et al., 2005d:65200**
Ponsiglione, Marcello *see* **Giacomini, Alessandro, 2005a:65130**
Pontaza, J. P. Least-squares variational principles and the finite element method: theory, formulations, and models for solid and fluid mechanics. (English summary) **2005k:65259**
Pozzi, Paola L^2-estimate for the discrete Plateau problem. (English summary) **2005d:65211**
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Provatidis, Christopher G. Three-dimensional Coons macroelements in Laplace and acoustic problems. (English summary)
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van Raalte, M. H. A feasibility study for discontinuous Galerkin discretization with embedded Dirichlet boundary condition. (English summary)
— *see also* **Hemker, Pieter W. et al., 2005b:65127** *and* **2005d:65210**
Rahman, Talal *see* **Xu, Xue Jun et al., 2005i:65194**
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— *see also* **Ben Abdallah, Adnene et al., 2005g:65165**
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Rodríguez, Rodolfo *see* **Bermúdez de Castro, Alfredo et al., 2005m:65256**
Rodríguez-Mattalia, S. (*with* Nuño, L.; Jódar, Lucas; Balbastre, J. V.) An improvement of the finite-element method for computing the electric field of waveguides with complex geometry. (English summary) **2005m:65281**
Rogers, R. C. *see* **Li, Zhi Lin[1] et al., 2005f:65153**
Roos, Hans-Görg (*with* Zarin, Helena) The discontinuous Galerkin finite element method for singularly perturbed problems. (English summary) (*see* **2005a:65001**)
— (*with* Zarin, Helena) The discontinuous Galerkin method for singularly perturbed problems. (English summary) (*see* **2005j:65003**)
Roy Mahapatra, D. (*with* Gopalakrishnan, S.) A nonlinear spectral finite element model for analysis of wave propagation in solid with internal friction and dissipation. (English summary) (*see* **2005g:65009**)
Ruas, V. (*with* Carneiro de Araujo, J. H.; Silva Ramos, M. A. M.) Multi-field finite element methods with discontinuous pressures for axisymmetric incompressible flow. (English summary)
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— *see also* **Houston, Paul et al., 2005b:65128**; **(2005j:65003)**; **(2005j:65003)**; **Hasler, Urs et al., 2005d:65209**; **Cockburn, Bernardo et al., 2005g:65168** *and* **Perugia, Ilaria et al., (2005j:65003)**
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— *see also* **Li, Shaofan et al., 2005a:65133** *and* **Lu, Hongsheng et al., 2005a:65136**
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Sobotíková, Veronika The finite element analysis of an elliptic problem with a nonlinear Newton boundary condition. (English summary) (*see* **2005j:65003**)
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Sun, Hui Xia (*with* Chen, Shao Chun) Error estimates for 12-parameter double-set-parameter rectangular plate elements. (Chinese. English and Chinese summaries)
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Tu, Xuemin (*with* Sarkis, Marcus V.) Singular function enhanced mortar finite element. (*see* **2005f:65003**)
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Vande Sande, H. (*with* Henrotte, François; Hameyer, Kay) The Newton-Raphson method for solving non-linear and anisotropic time-harmonic problems. (English summary)
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Wang, Q. X. (*with* Li, Hua[4]; Lam, Kwok-Yan) Development of a new meshless-point weighted least-squares (PWLS) method for computational mechanics. (English summary)
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Wu, Xiao Nan (*with* Jin, Jicheng) A finite element method for Stokes equation using discrete singularity expansion. (English summary) **2005i:65193**
— *see also* **Jin, Jicheng, 2005e:65185**
Wu, Xiao Tian Meshless methods for solving partial differential equations. (Chinese. English and Chinese summaries) **2005h:65224**
Wu, Zheng Peng (*with* Yu, De Hao) Coupling of natural boundary element and finite element for semilinear boundary value problems. (Chinese. English summary) **2005h:65225**
— (*with* Kang, Tong; Yu, De Hao) On the coupled NBEM and FEM for a class of nonlinear exterior Dirichlet problem in R^{2*}. (English summary) **2005e:65187**
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Xie, Zi-qing (*with* Chen, Chuan Miao) The interpolated coefficient FEM and its application in computing the multiple solutions of semilinear elliptic problems. (English summary) **2005m:65285**
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Xu, Song Qing *see* **Li, Lu Xian et al.**
Xu, Xue Jun (*with* Lui, S. H.; Rahman, Talal) A two-level additive Schwarz method for the Morley nonconforming element approximation of a nonlinear biharmonic equation. (English summary) **2005i:65194**
Xuan, Zhao Cheng (*with* Lee, Kwok-Hong; Peraire, J.) A posteriori output bound for partial differential equations based on elemental error bound computing. (English summary) (*see* **2005g:65008**)
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Yamakawa, Soji (*with* Shimada, Kenji) Fully-automated hex-dominant mesh generation with directionality control via packing rectangular solid cells. (English summary) **2005b:65130**
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Yvonnet, J. (*with* Ryckelynck, D.; Lorong, P.; Chinesta Soria, Francisco) A new extension of the natural element method for non-convex and discontinuous problems: the constrained natural element method (C-NEM). (English summary) **2005b:65131**
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— A new family of stable mixed finite elements for the 3D Stokes equations. (English summary) **2005j:65151**
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— Polynomial preserving recovery for anisotropic and irregular grids. (English summary) **2005e:65189**
— (*with* Lin, Runchang) Locating natural superconvergent points of finite element methods in 3D. (English summary) **2005i:65195**
— *see also* **Lin, Runchang, 2005f:65154**
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Zhu, Qi Ding (*with* Zhao, Qing Hua) New discussions for finite element superconvergence. (English and Chinese summaries) **2005k:65265**
— (*with* Meng, Ling-xiong) The derivative ultraconvergence for quadratic triangular finite elements. (English summary) **2005h:65226**
— (*with* Meng, Ling-xiong) New construction and ultraconvergence of derivative recovery operator for odd-degree rectangular elements. (English summary) **2005k:65266**
— *see also* **Liu, Jing Hong, 2005m:65275**
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Items with secondary classifications in 65N30

Abraham, Feby (*with* Behr, Marek; Heinkenschloss, Matthias) The effect of stabilization in finite element methods for the optimal boundary control of the Oseen equations. (English summary) **2005g:49056**
Achchab, B. (*with* Achchab, Said; Agouzal, A.) Some remarks about the hierarchical a posteriori error estimate. (English summary) **2005k:65225**
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Alonso, Beatriz *see* **Martín, Ángel J. et al.**
Aman, M. (*with* Kerayechian, A.) The sensitivity analysis of the linear programming methods for the Stokes problem. (English summary)
Amara, Mohamed (*with* Capatina-Papaghiuc, Daniela; Chacón-Vera, Eliseo; Trujillo, David) Vorticity-velocity-pressure formulation for Navier-Stokes equations. (English summary) **2005a:76039**
Andreev, A. B. Superclose property and application for fourth-order eigenvalue problems. (English summary) **2005h:65199**
— (*with* Todorov, Todor Dimitrov[2]) Isoparametric finite-element approximation of a Steklov eigenvalue problem. (English summary) **2005a:65123**
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— The effect of reduced integration in the Steklov eigenvalue problem. (English summary) **2005h:65200**
Arntzen, Ole Jakob Higher-order terms in the capillary limit approximation of viscous-capillary flow. (English summary) **2005c:76082**
Asensio Sevilla, María Isabel (*with* Russo, Alessandro; Sangalli, Giancarlo) The residual-free bubble numerical method with quadratic elements. (English summary) **2005a:65117**
Atluri, Satya N. (*with* Han, Z. D.; Rajendran, A. M.) A new implementation of the meshless finite volume method, through the MLPG "mixed" approach. (English summary)
— *see also* **Sladek, J. et al.**
Auricchio, Ferdinando (*with* Beirão da Veiga, L.; Lovadina, Carlo; Reali, A.) A stability study of some mixed finite elements for large deformation elasticity problems. (English summary) **2005i:74072**
— (*with* Beirão da Veiga, L.; Lovadina, Carlo; Reali, A.) An analysis of some mixed-enhanced finite element for plane linear elasticity. (English summary) **2005m:74091**
Austin, Travis M. (*with* Manteuffel, Thomas A.; McCormick, Stephen F.) A robust multilevel approach for minimizing **H**(div)-dominated functionals in an $\mathbf{H}^1$-conforming finite element space. (English summary) **2005d:65226**
Awanou, Gerard (*with* Lai, Ming-Jun) Trivariate spline approximations of 3D Navier-Stokes equations. (English summary) **2005m:65015**
Axelsson, Axel Ove Holger Improving additive and multiplicative preconditioners for two-level matrices by congruence transformations. (English summary) (*see* **2005i:65006**)
Babuška, Ivo (*with* Sauter, Stefan) Efficient solution of lattice equations by the recovery method. I. Scalar elliptic problems. (English summary) **2005h:65240**
— (*with* Tempone, Raúl; Zouraris, Georgios E.) Galerkin finite element approximations of stochastic elliptic partial differential equations. (English summary) **2005h:65012**
Badea, Lori (*with* Tai, Xue-Cheng; Wang, Jun Ping[1]) Convergence rate analysis of a multiplicative Schwarz method for variational inequalities. (English summary) **2005a:65059**
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Bang, Hyochoong *see* **Kwon, Young W.**
Bank, Randolph E. (*with* Lu, Shaoying) A domain decomposition solver for a parallel adaptive meshing paradigm. (English summary) **2005i:65199**
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Barrientos, Mauricio A. (*with* Gatica, Gabriel N.; Rodríguez, Rodolfo; Torrejón, Marcela E.) Analysis of a coupled BEM/FEM eigensolver for the hydroelastic vibrations problem. (English summary) **2005m:74040**
Bartels, Sören (*with* Carstensen, Carsten; Dolzmann, Georg) Inhomogeneous Dirichlet conditions in a priori and a posteriori finite element error analysis. (English summary) **2005i:65166**
— (*with* Carstensen, Carsten) Averaging techniques yield reliable a posteriori finite element error control for obstacle problems. (English summary) **2005m:35067**
Barth, Teri (*with* Bochev, Pavel B.; Gunzburger, Max D.; Shadid, John N.) A taxonomy of consistently stabilized finite element methods for the Stokes problem. (English summary) **2005c:76061**
Becker, Roland (*with* Rannacher, Rolf) Error control for model reduction by discretization in optimal control of flows. **2005e:76039**
— (*with* Vexler, Boris) A posteriori error estimates for parameter identification. (English summary) **2005j:65129**
— (*with* Braack, Malte; Vexler, Boris) Parameter identification for chemical models in combustion problems. (English summary) **2005m:80005**
Behr, Marek *see* **Abraham, Feby et al., 2005g:49056**
Beirão da Veiga, L. Optimal error bounds for the MITC4 plate bending element. (English summary) **2005h:74058**
— *see also* **Auricchio, Ferdinando et al., 2005i:74072** *and* **2005m:74091**
Belhachmi, Zakaria Residual a posteriori error estimates for a 3D mortar finite-element method: the Stokes system. (English summary) **2005e:65172**
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Bendali, Abderrahmane (*with* Boubendir, Yassine) Méthode de décomposition de domaine et éléments finis nodaux pour la résolution de l'équation d'Helmholtz. (English and French summaries) [Domain decomposition method and nodal finite elements for

solving the Helmholtz equation]

Bermúdez de Castro, Alfredo (*with* Gamallo, Pablo; Rodríguez, Rodolfo) Finite element methods in local active control of sound. (English summary) **2005f:49005**

— (*with* Rodríguez, Rodolfo; Salgado, Pilar) FEM for 3D eddy current problems in bounded domains subject to realistic boundary conditions. An application to metallurgical electrodes. (English summary) **2005m:78027**

— (*with* Rodríguez, Rodolfo; Salgado, Pilar) Numerical solution of eddy current problems in bounded domains using realistic boundary conditions. (English summary) **2005h:78025**

Bernardi, Christine (*with* Maday, Yvon; Rapetti, Francesca) ★ Discrétisations variationnelles de problèmes aux limites elliptiques. (French) [Variational discretizations of elliptic boundary value problems] **2005g:65004**

— (*with* Chacón-Rebollo, Tomás; Gómez Mármol, M.; Lewandowski, Roger; Murat, François) A model for two coupled turbulent fluids. III. Numerical approximation by finite elements. (English summary) **2005g:76074**

Bertoluzza, Silvia (*with* Falletta, S.) The mortar method with approximate constraint. (*see* **2005f:65003**)

Betsakos, Dimitrios (*with* Samuelsson, Klas; Vuorinen, Matti) The computation of capacity of planar condensers. (English summary) **2005i:31004**

Binev, Petăr G. (*with* Dahmen, Wolfgang; DeVore, Ronald) Adaptive finite element methods with convergence rates. (English summary) **2005d:65222**

Bjørstad, Petter E. (*with* Dryja, Maksymilian; Rahman, Talal) Additive Schwarz methods for elliptic mortar finite element problems. (English summary) **2005e:65193**

Blacker, D. J. A robust a posteriori error estimate for the Fortin-Soulie finite-element method. (English summary) **2005m:65244**

Blaheta, Radim (*with* Margenov, S.; Neytcheva, Maya) Uniform estimate of the constant in the strengthened CBS inequality for anisotropic non-conforming FEM systems. (English summary) **2005a:65119**

Bochev, Pavel B. (*with* Robinson, Allen C.) Matching algorithms with physics: exact sequences of finite element spaces. (*see* **2005h:65004**)

— (*with* Garasi, Christopher J.; Hu, Jonathan J.; Robinson, Allen C.; Tuminaro, Raymond S.) An improved algebraic multigrid method for solving Maxwell's equations. (English summary) **2005h:65241**

— (*with* Gunzburger, Max D.) Least-squares finite-element methods for optimization and control problems for the Stokes equations. (English summary) **2005j:76056**

— (*with* Gunzburger, Max D.) An absolutely stable pressure-Poisson stabilized finite element method for the Stokes equations. (English summary) **2005k:65223**

— (*with* Gunzburger, Max D.) Compatible discretizations of second-order elliptic problems. (English and Russian summaries) **2005k:35076**

— *see also* **Dohrmann, Clark R., 2005b:76084** *and* **Barth, Teri et al., 2005c:76061**

Boeriu, S. (*with* Bruch, J. C., Jr.) Performance analysis tools applied to a finite element adaptive mesh free boundary seepage parallel algorithm. (English summary)

Boffi, Daniele (*with* Gastaldi, Lucia) Analysis of finite element approximation of evolution problems in mixed form. (English summary) **2005k:65199**

Bonnet-Ben Dhia, Anne-Sophie (*with* Drissi, Dorra; Gmati, N.) Simulation of muffler's transmission losses by a homogenized finite element method. (English summary) **2005f:76090**

Bostan, Viorel (*with* Han, Weimin; Reddy, B. Daya) A posteriori error estimation and adaptive solution of elliptic variational inequalities of the second kind. (English summary) **2005i:65167**

Boubendir, Yassine *see* **Bendali, Abderrahmane**

Bouillard, Philippe (*with* Lacroix, Valéry; De Bel, Eric) A meshless approach for 2D vibro-acoustic problems. (*see* **2005f:74002**)

Boulbrachene, Messaoud (*with* Chentouf, Boumediène) The finite element approximation of Hamilton-Jacobi-Bellman equations: the noncoercive case. (English summary) **2005k:49092**

— Pointwise error estimates for a class of elliptic quasi-variational inequalities with nonlinear source terms. (English summary) **2005k:65111**

Braack, Malte (*with* Ern, Alexandre) Coupling multimodelling with local mesh refinement for the numerical computation of laminar flames. (English summary) **2005g:80013**

— *see also* **Becker, Roland et al., 2005m:80005**

Braess, Dietrich (*with* Ming, Ping-bing) A finite element method for nearly incompressible elasticity problems. (English summary) **2005f:74073**

Brandts, Jan Conjugate gradients and finite elements—a golden jubilee. (*see* **2005c:65003**)

Brenner, Susanne C. Convergence of nonconforming V-cycle and F-cycle multigrid algorithms for second order elliptic boundary value problems. (English summary) **2005f:65167**

Brezzi, F. (*with* Marini, L. D.) A nonconforming element for the Reissner-Mindlin plate. (English summary) **2005f:74074**

Bruch, J. C., Jr. *see* **Boeriu, S.**

Burman, Erik (*with* Hansbo, Peter) Edge stabilization for Galerkin approximations of convection-diffusion-reaction problems. (English summary) **2005d:65186**

Cai, Xian-Xin (*with* Fleitas, D.; Jiang, Bonan; Liao, Guojun) Adaptive grid generation based on the least-squares finite-element method. (English summary) **2005j:65159**

Canet, J. Miquel *see* **Zalamea, F. et al., 2005d:74011**

Capatina-Papaghiuc, Daniela *see* **Amara, Mohamed et al., 2005a:76039**

Carstensen, Carsten All first-order averaging techniques for a posteriori finite element error control on unstructured grids are efficient and reliable. (English summary) **2005e:65173**

— (*with* Dolzmann, Georg) An a priori error estimate for finite element discretizations in nonlinear elasticity for polyconvex materials under small loads. (English summary) **2005b:74019**

— *see also* **Bartels, Sören et al., 2005i:65166** *and* **2005m:35067**

Casas Rentería, Eduardo (*with* Mateos, Mariano) Uniform convergence of the FEM. Applications to state constrained control problems. (English summary) **2005j:49024**

Casteleiro, Manuel *see* **Cueto-Felgueroso, Luis et al.**

Chacón-Rebollo, Tomás (*with* Rodríguez Gómez, David) Numerical investigation of the regularity of the pressure for the primitive equations of the ocean. (English summary) **2005h:86004**

— *see also* **Bernardi, Christine et al., 2005g:76074**

Chacón-Vera, Eliseo *see* **Amara, Mohamed et al., 2005a:76039**

Chapelle, Dominique Some new results and current challenges in the finite element analysis of shells. (English summary) **2005d:74021**

Chechel′, I. I. *see* **Pal′tsev, B. V., 2005m:76116**

Chen, Cheng-Hung *see* **Chen, Wen-Hwa**

Chen, Goong (*with* Ding, Zhonghai; Hu, Chia-Ren; Ni, Wei-Ming; Zhou, Jianxin) A note on the elliptic sine-Gordon equation. (English summary) **2005f:35059**

Chen, Hongsen Local error estimates of mixed discontinuous Galerkin methods for elliptic problems. (English summary) **2005a:65118**

Chen, Shao Chun *see* **Shi, Dong Yang et al., 2005m:74097**

Chen, Wen-Hwa (*with* Chen, Cheng-Hung) On three-dimensional fracture mechanics analysis by an enriched meshless method. (English summary)

Chen, Xuefeng *see* **Li, Bing et al., (2005i:42002)**

Chen, Yan Ping[1] (*with* Liu, Wen Bin[1]) A posteriori error estimates for mixed finite elements of a quadratic control problem. (English summary) **2005d:49048**

Cheng, Rong (*with* Li, Wan She) Increasing approximation order of finite element multi-scaling functions by two-scale similarity transform. (Chinese. English and Chinese summaries)

Chentouf, Boumediène *see* **Boulbrachene, Messaoud, 2005k:49092**

Ciarlet, Patrick, Jr. Augmented formulations for solving Maxwell equations. (English summary) **2005h:78026**

Coleman, Michael *see* **Fried, Isaac, 2005m:15047**

Collino, Francis *see* **Huttunen, Tomi et al., 2005c:74042**

Colominas, Ignasi *see* **Cueto-Felgueroso, Luis et al.**

Cox, Christopher L. *see* **Waters, L. K. et al., 2005i:76038**

Coyle, Joe (*with* Ledger, P. D.) Evidence of exponential convergence in the computation of Maxwell eigenvalues. (English summary) **2005i:65171**

Creusé, Emmanuel (*with* Nicaise, Serge; Kunert, Gerd) A posteriori error estimation for the Stokes problem: anisotropic and isotropic discretizations. (English summary) **2005g:65159**

Cueto, E. *see* **González, David et al.**

Cueto-Felgueroso, Luis (*with* Colominas, Ignasi; Mosqueira, Gonzalo; Navarrina, Fermín; Casteleiro, Manuel) A Galerkin meshless numerical approach based on the SPH method. (Spanish. English and Spanish summaries)

Cui, Jun Zhi *see* **Feng, Yong-Ping, 2005g:74037**

Dahmen, Wolfgang (*with* Faermann, B.; Graham, I. G.; Hackbusch, Wolfgang; Sauter, Stefan) Inverse inequalities on non-quasi-uniform meshes and application to the mortar element method. (English summary) **2005d:65187**

— *see also* **Binev, Petăr G. et al., 2005d:65222**

Dai, Hui *see* **Leung, Andrew Y. T. et al.**

De Bel, Eric *see* **Bouillard, Philippe et al., (2005f:74002)**

Deĭneka, V. S. *see* **Sergienko, Ivan V., 2005e:49079** *and* **2005g:74056**

Demkowicz, Leszek F. Fully automatic *hp*-adaptivity for Maxwell's equations. (English summary) **2005m:65296**

— *see also* **Gopalakrishnan, Jayadeep et al., 2005c:65115**

Deng, Qingping An optimal parallel nonoverlapping domain decomposition iterative procedure. (English summary) **2005c:65114**

DeVore, Ronald *see* **Binev, Petăr G. et al., 2005d:65222**

Ding, Zhonghai *see* **Chen, Goong et al., 2005f:35059**

Doblaré, M. *see* **González, David et al.**

Dohrmann, Clark R. (*with* Bochev, Pavel B.) A stabilized finite element method for the Stokes problem based on polynomial pressure projections. (English summary) **2005b:76084**

Dolzmann, Georg *see* **Carstensen, Carsten, 2005b:74019** *and* **Bartels, Sören et al., 2005i:65166**

Dörfler, W. (*with* Siebert, Kunibert G.) An adaptive finite element method for minimal surfaces. (English summary) **2005c:53009**

Dossou, Kokou (*with* Fontaine, Marie) A high order isoparametric finite element method for the computation of waveguide modes. (English summary) **2005g:78017**

Drissi, Dorra *see* **Bonnet-Ben Dhia, Anne-Sophie et al., 2005f:76090**

Dryja, Maksymilian *see* **Bjørstad, Petter E. et al., 2005e:65193**

Duan, Huo-Yuan (*with* Lin, Qun[1]) Mixed finite elements of least-squares type for elasticity. (English summary) **2005j:74054**

Dular, Patrick *see* **Sabariego, R. V. et al.**

Dumont, Serge (*with* Lebon, Frédéric) Wavelet-Galerkin method for plane elastostatics. (English and Portuguese summaries) **2005f:74033**

Dunca, Adrian (*with* John, Volker) Finite element error analysis of space averaged flow fields defined by a differential filter. (English summary) **2005a:76100**

Duncan, James S. *see* **Papademetris, Xenophon et al., (2005e:92001)**

Durán, Ricardo G. *see* **Armentano, María G., 2005d:65198**

Eck, Christof (*with* Wohlmuth, Barbara I.) Convergence of a contact-Neumann iteration for the solution of two-body contact problems. (English summary) **2005d:74025**

Efendiev, Yalchin R. (*with* Pankov, A. A.) Numerical homogenization and correctors for nonlinear elliptic equations. (English summary) **2005h:65251**

El Boukili, A. (*with* Madrane, A.; Vaillancourt, Rémi) Unstructured grid adaptation for convection-dominated semiconductor equations. (English summary) **2005a:65147**

Elishakoff, Isaac (*with* Ren, Yongjian) ★ Finite element methods for structures with large stochastic variations. **2005d:65001**

El-Tahan, W. *see* **El-Tawil, Magdy A. et al., 2005i:65013**

El-Tawil, Magdy A. (*with* El-Tahan, W.; Hussein Zaki, Abdellah) A proposed technique of SFEM on solving ordinary random differential equation. (English summary) **2005i:65013**

El-Zafrany, A. *see* **Razzaq, R. J., (2005d:65006)**

Ern, Alexandre (*with* Guermond, Jean-Luc) ★ Theory and practice of finite elements. **2005d:65002**

— *see also* **Braack, Malte, 2005g:80013**

Fabiano, Richard H. Coercivity for finite element approximation of a thermoelastic beam. (*see* **2005m:00008**)

Faermann, B. *see* **Dahmen, Wolfgang et al., 2005d:65187**

Falcón, Sergio *see* **Plaza, Ángel et al., 2005f:65165**

Falletta, S. *see* **Bertoluzza, Silvia, (2005f:65003)**

Farhat, Charbel (*with* Li, Jing-Rebecca) An iterative domain decomposition method for the solution of a class of indefinite problems in computational structural dynamics. (English summary)
Feng, Yong-Ping (*with* Cui, Jun Zhi) Multi-scale analysis and FE computation for the structure of composite materials with small periodic configuration under condition of coupled thermoelasticity. (English summary) **2005g:74037**
Ferreira, Antonio J. M. Analysis of composite laminated plates using Legendre polynomials and a radial basis function method. (Portuguese. English and Portuguese summaries)
Fierro, Francesca (*with* Veeser, Andreas) A posteriori error estimators for regularized total variation of characteristic functions. (English summary) **2005e:49063**
Finěk, Václav Daubechies wavelets on intervals with application to BVPs. (English summary) **2005h:65275**
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Fleitas, D. *see* **Cai, Xian-Xin et al., 2005j:65159**
Flemisch, Bernd (*with* Mair, Michael; Wohlmuth, Barbara I.) Nonconforming discretization techniques for overlapping domain decompositions. (English summary) (*see* **2005j:65003**)
Fok, S. L. *see* **Leung, Andrew Y. T. et al.**
Fontaine, Marie *see* **Dossou, Kokou, 2005g:78017**
Formaggia, Luca (*with* Micheletti, Stefano; Perotto, Simona) Anisotropic mesh adaption in computational fluid dynamics: application to the advection-diffusion-reaction and the Stokes problems. (English summary) **2005h:65191**
Frauenfelder, Philipp *see* **Wihler, Thomas P. et al., 2005e:65171**
Fried, Isaac (*with* Coleman, Michael) Improvable bounds on the largest eigenvalue of a completely positive finite element flexibility matrix. **2005m:15047**
Fuenmayor, F. J. *see* **Tarancón, José Enrique et al.**
Gamallo, Pablo *see* **Bermúdez de Castro, Alfredo et al., 2005f:49005**
Ganesan, Sashikumaar (*with* John, Volker) Pressure separation—a technique for improving the velocity error in finite element discretisations of the Navier-Stokes equations. (English summary) **2005k:76075**
Gao, Shao-qin Least-squares mixed finite element methods for the incompressible magnetohydrodynamic equations. (English summary) **2005m:76114**
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Gaskell, P. H. *see* **Walkley, M. A. et al., 2005j:76063**
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— *see also* **Barrientos, Mauricio A. et al., 2005m:74040**
Gavete, Luis *see* **Martín, Ángel J. et al.**
Geuzaine, Christophe A. *see* **Nicolet, André et al.** *and* **Sabariego, R. V. et al.**
Giles, Michael B. (*with* Süli, Endre) Adjoint methods for PDEs: a posteriori error analysis and postprocessing by duality. (English summary) **2005d:65190**
Ginting, V. Analysis of two-scale finite volume element method for elliptic problem. (English summary) **2005e:65165**
Gmati, N. *see* **Bonnet-Ben Dhia, Anne-Sophie et al., 2005f:76090**
Gómez Mármol, M. *see* **Bernardi, Christine et al., 2005g:76074**
González, David (*with* Cueto, E.; Doblaré, M.) Volumetric locking in natural neighbour Galerkin methods. (English summary)
Gopalakrishnan, Jayadeep (*with* Pasciak, Joseph E.; Demkowicz, Leszek F.) Analysis of a multigrid algorithm for time harmonic Maxwell equations. (English summary) **2005c:65115**
Gradinaru, V. (*with* Hiptmair, Ralf) Multigrid for discrete differential forms on sparse grids. (English summary) **2005g:65183**
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Guermond, Jean-Luc Nonstandard nonconforming approximation of the Stokes problem. I. Periodic boundary conditions. (English summary) **2005i:76074**
— *see also* **Ern, Alexandre, 2005d:65002**
Gunzburger, Max D. The inf-sup condition in mixed finite element methods with application to the Stokes system. (*see* **2005h:65004**)
— *see also* **Barth, Teri et al., 2005c:76061**; **Bochev, Pavel B., 2005j:76056**; **2005k:35076** *and* **2005k:65223**
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Hackbusch, Wolfgang *see* **Dahmen, Wolfgang et al., 2005d:65187**
Han, Weimin *see* **Bostan, Viorel et al., 2005i:65167**
Han, Z. D. *see* **Atluri, Satya N. et al.**
Han, Zhi *see* **Yang, Hai Tian et al.**
Hansbo, Anita (*with* Hansbo, Peter) A finite element method for the simulation of strong and weak discontinuities in solid mechanics. (English summary) **2005b:74116**
Hansbo, Peter *see* **Hansbo, Anita, 2005b:74116** *and* **Burman, Erik, 2005d:65186**
Hartmann, Ralf (*with* Houston, Paul) Adaptive discontinuous Galerkin finite element methods with interior penalty for the compressible Navier-Stokes equations. (English summary) (*see* **2005j:65003**)
Hassan, Oubay *see* **Ledger, P. D. et al., 2005h:78014**
Hazard, Christophe (*with* Lohrengel, Stephanie) A singular field method for Maxwell's equations: numerical aspects for 2D magnetostatics. (English summary) **2005a:78031**
He, Yinnian *see* **Zhou, Xiao Lin[1], 2005j:76069**
He, Zhengjia *see* **Li, Bing et al., (2005i:42002)**
Heinkenschloss, Matthias *see* **Abraham, Feby et al., 2005g:49056**
Hernández, Erwin (*with* Rodríguez, Rodolfo) Finite element approximation of spectral acoustic problems on curved domains. (English summary) **2005c:76063**
Hesse, M. (*with* Rumpf, Martin; Sturm, Karl-Theodor) Discretization and convergence for harmonic maps into trees. (English summary) **2005g:58028**
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Hlaváček, Ivan Unilateral contact with Coulomb friction and uncertain input data. (English summary) **2005b:74088**
Hoarau-Mantel, Thierry-Vincent (*with* Barboteu, Mikaël) Un schéma de prédiction-correction pour un problème hypervisco-élastique en grandes déformations avec contact et frottement. (French summary) [A prediction-correction scheme for a large deformation hyperviscoelastic contact problem with friction]
Holst, Stefan (*with* Jüngel, Ansgar; Pietra, Paola) An adaptive mixed scheme for energy-transport simulations of field-effect transistors. (English summary) **2005d:82130**
Houston, Paul (*with* Perugia, Ilaria; Schötzau, Dominik) Energy norm a posteriori error estimation for mixed discontinuous Galerkin approximations of the Maxwell operator. (English summary) **2005h:78027**
— *see also* **Hartmann, Ralf, (2005j:65003)**
Hu, Chia-Ren *see* **Chen, Goong et al., 2005f:35059**
Hu, Jonathan J. *see* **Bochev, Pavel B. et al., 2005h:65241**
Hu, Jun (*with* Shi, Zhong-Ci) On the convergence of Weissman-Taylor element for Reissner-Mindlin plate. (English summary) **2005c:74067**
— (*with* Huang, Yun Qing; Shen, Hongmei) The lower approximation of eigenvalue by lumped mass finite element method. (English summary) **2005h:65201**
Hu, Qi Ya (*with* Shi, Zhong-Ci; Yu, De Hao) Efficient solvers for saddle-point problems arising from domain decompositions with Lagrange multipliers. (English summary) **2005h:65045**
Huang, Hong Ying (*with* Zhu, Wei) A non-overlapping domain decomposition algorithm for exterior two-dimensional harmonic problems in elongated domains. (Chinese. English and Chinese summaries)
Huang, Jian Guo Numerical solution of the elastic body-plate problem by nonoverlapping domain decomposition type techniques. (English summary) **2005a:65149**
Huang, Yun Qing *see* **Hu, Jun et al., 2005h:65201**
Hüeber, S. (*with* Mair, Michael; Wohlmuth, Barbara I.) A priori error estimates and an inexact primal-dual active set strategy for linear and quadratic finite elements applied to multibody contact problems. (English summary) **2005m:74094**
Hughes, Thomas J. R. (*with* Wells, Garth N.) Conservation properties for the Galerkin and stabilised forms of the advection-diffusion and incompressible Navier-Stokes equations. (English summary) **2005j:76060**
Hussein Zaki, Abdellah *see* **El-Tawil, Magdy A. et al., 2005i:65013**
Huttunen, Tomi (*with* Monk, P. B.; Collino, Francis; Kaipio, Jari P.) The ultra-weak variational formulation for elastic wave problems. (English summary) **2005c:74042**
Iliescu, T. Genuinely nonlinear models for convection-dominated problems. (English summary) **2005h:76064**
Ionescu, Ioan R. (*with* Wolf, Sylvie) Interaction of faults under slip-dependent friction. Non-linear eigenvalue analysis. (English summary) **2005h:74046**
Jamelot, Erell Eléments finis nodaux pour les équations de Maxwell. (English and French summaries) [Nodal finite element methods for Maxwell's equations]
— Corrigendum to the note: "Nodal finite element methods for Maxwell's equations" [C. R. Math. Acad. Sci. Paris **339** (2004), no. 11, 809–814; MR2110386]. (French. English summary)
Jiang, Bonan *see* **Cai, Xian-Xin et al., 2005j:65159**
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Jüngel, Ansgar *see* **Holst, Stefan et al., 2005d:82130**
Kačeniauskas, Arnas (*with* Rutschmann, Peter) Parallel FEM software for CFD problems. (English and Lithuanian summaries)
Kaipio, Jari P. *see* **Huttunen, Tomi et al., 2005c:74042**
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Kelmanson, M. A. *see* **Walkley, M. A. et al., 2005j:76063**
Kerayechian, A. *see* **Aman, M.**
Kerdid, Nabil (*with* Le Dret, Hervé; Saïdi, Abdelkader) Approximation numérique d'un problème de membrane non linéaire. (English and French summaries) [Numerical approximation for a nonlinear membrane problem] **2005h:74039**
Kim, Yongsik *see* **Lee, Sang-Ho[3] et al.**
Klawonn, Axel (*with* Starke, Gerhard) A preconditioner for the equations of linear elasticity discretized by the PEERS element. (English summary) **2005a:74037**
Knobloch, Petr On the application of the p_1^{mod} element to incompressible flow problems. (English summary) **2005a:76101**
Korneev, Vadim G. (*with* Langer, Ulrich[1]; Xanthis, L. S.) On fast domain decomposition solving procedures for *hp*-discretizations of 3-D elliptic problems. (English summary) **2005g:65184**
Korotov, Sergey (*with* Stańdo, Jacek) Nonstandard nonobtuse refinements of planar triangulations. **2005h:65236**
— (*with* Neittaanmäki, Pekka; Repin, S. I.) A posteriori error estimation in terms of linear functionals for boundary value problems of elliptic type. (English summary) (*see* **2005j:65003**)
Křížek, Michal *see* **Liu, Li Ping[2] et al., 2005k:65230**
Kružík, Martin (*with* Prohl, Andreas) Macroscopic modeling of magnetic hysteresis. (English summary) **2005h:47123**
— (*with* Otto, Felix) A phenomenological model for hysteresis in polycrystalline shape memory alloys. (English summary) **2005g:74095**
Kučera, Radek Complexity of an algorithm for solving saddle-point systems with singular blocks arising in wavelet-Galerkin discretizations. (English summary) **2005k:65067**
Kulshreshtha, Kshitij (*with* Nataraj, Neela; Jung, Michael[1]) Performance of a parallel mixed finite element implementation for fourth order clamped anisotropic plate bending problems in distributed memory environments. (English summary) **2005b:74117**
Kunert, Gerd A posterior H^1 error estimation for a singularly perturbed reaction diffusion problem on anisotropic meshes. (English summary) **2005k:65228**
— *see also* **Creusé, Emmanuel et al., 2005g:65159**
Kwak, D. Y. (*with* Nepomnyashchikh, Sergeĭ V.; Pyo, H. C.) Domain decomposition preconditioning for anisotropic problems. (English summary) (*see* **2005i:65006**)
Kwon, Young W. (*with* Bang, Hyochoong) ★ The finite element method using MATLAB.
Lacroix, Valéry *see* **Bouillard, Philippe et al., (2005f:74002)**
Lai, Ming-Jun *see* **Awanou, Gerard, 2005m:65015**
Lam, Kwok-Yan *see* **Zong, Z. et al., 2005m:74099**
Langer, Ulrich[1] *see* **Korneev, Vadim G. et al., 2005g:65184**
Lasser, Caroline (*with* Toselli, Andrea) An overlapping domain decomposition precondi-

tioner for a class of discontinuous Galerkin approximations of advection-diffusion problems. (English summary) **2005b:65140**

Laursen, Tod A. *see* **Yang, Bin[5] et al.**

Lebon, Frédéric *see* **Dumont, Serge**, **2005f:74033**

Ledger, P. D. (*with* Morgan, Kenneth; Hassan, Oubay) Frequency and time domain electromagnetic scattering simulations employing higher order edge elements. (English summary) **2005h:78014**

— *see also* **Coyle, Joe**, **2005i:65171**

Le Dret, Hervé *see* **Kerdid, Nabil et al.**, **2005h:74039**

Lee, Jin-Fa *see* **Lee, Seung-Cheol et al.**, **2005f:65169**

Lee, Sang-Ho[3] (*with* Yoon, Young-Cheol; Kim, Yongsik) New local near-tip functions for the element-free Galerkin method. (English summary)

Lee, Seung-Cheol (*with* Vouvakis, Marinos N.; Lee, Jin-Fa) A non-overlapping domain decomposition method with non-matching grids for modeling large finite antenna arrays. (English summary) **2005f:65169**

Legros, W. *see* **Sabariego, R. V. et al.**

Leung, Andrew Y. T. (*with* Dai, Hui; Fok, S. L.; Su, R. K. L.) The fractal finite element method for unbounded problems. (English summary)

Lew, Adrian (*with* Neff, Patrizio; Sulsky, Deborah; Ortiz, Michael) Optimal BV estimates for a discontinuous Galerkin method for linear elasticity. **2005f:74034**

Lewandowski, Roger *see* **Bernardi, Christine et al.**, **2005g:76074**

Li, Bing (*with* Chen, Xuefeng; He, Zhengjia; Zhuo, Jie) Beam bending analysis using wavelet finite element. (English summary) (*see* **2005i:42002**)

Li, Jing-Rebecca *see* **Farhat, Charbel**

Li, Wan She *see* **Cheng, Rong**

Liakos, A. Finite-element approximation of viscoelastic fluid flow with slip boundary condition. (English summary) **2005k:76079**

Liao, Guojun *see* **Cai, Xian-Xin et al.**, **2005j:65159**

Lin, Qun[1] *see* **Duan, Huo-Yuan**, **2005j:74054**

Lin, Tao[1] *see* **Liu, Li Ping[2] et al.**, **2005k:65230**

Liu, Li Ping[2] (*with* Liu, Tang; Křížek, Michal; Lin, Tao[1]; Zhang, Shu Hua[3]) Global superconvergence and a posteriori error estimators of the finite element method for a quasi-linear elliptic boundary value problem of nonmonotone type. (English summary) **2005k:65230**

Liu, Ling[2] *see* **Yang, Hai Tian et al.**

Liu, Tang *see* **Liu, Li Ping[2] et al.**, **2005k:65230**

Liu, Wen Bin[1] *see* **Chen, Yan Ping[1]**, **2005d:49048**

Loghin, D. (*with* Wathen, Andrew J.) Analysis of preconditioners for saddle-point problems. (English summary) **2005h:65048**

— *see also* **Arioli, Mario et al.**, **2005k:65233**

Lohrengel, Stephanie *see* **Hazard, Christophe**, **2005a:78031**

Lorentz, E. Ill-posed boundary conditions encountered in 3D and plate finite element simulations. (English summary) **2005m:74095**

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Mair, Michael *see* **Hüeber, S. et al.**, **2005m:74094** *and* **Flemisch, Bernd et al.**, (**2005j:65003**)

Maischak, Matthias (*with* Stephan, Ernst P.) A FEM-BEM coupling method for a nonlinear transmission problem modelling Coulomb friction contact. (English summary) **2005i:74075**

— *see also* **Stephan, Ernst P.**, **2005h:78028**

Makinouchi, A. *see* **Xing, Huilin et al.**, (**2005g:00014**)

Mandel, Jan (*with* Popa, Mirela O.) Iterative solvers for coupled fluid-solid scattering. (English summary) **2005m:65303**

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Mao, Shi Peng *see* **Shi, Dong Yang et al.**, **2005m:74097**

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Marini, L. D. *see* **Brezzi, F.**, **2005f:74074**

Márquez Gentil, Antonio (*with* Meddahi, Salim; Selgas, Virginia) A new BEM-FEM coupling strategy for two-dimensional fluid-solid interaction problems. (English summary) **2005b:74041**

— *see also* **Meddahi, Salim et al.**, (**2005b:00020**)

Martín, Ángel J. (*with* Gavete, Luis; Alonso, Beatriz; Ruiz Perea, Antonio) A posteriori error approximation in the element-free Galerkin method. (Spanish. English and Spanish summaries)

Mateos, Mariano *see* **Casas Rentería, Eduardo**, **2005j:49024**

McCormick, Stephen F. *see* **Austin, Travis M. et al.**, **2005d:65226**

Meddahi, Salim (*with* Márquez Gentil, Antonio; Selgas, Virginia) A coupling of spectral and finite elements for an acoustic scattering problem. (*see* **2005b:00020**)

— *see also* **Márquez Gentil, Antonio et al.**, **2005b:74041**

Meng, Xiaonong *see* **Yang, Bin[5] et al.**

Metzger, Jan Numerical computation of constant mean curvature surfaces using finite elements. (English summary) **2005f:53014**

Meyer, Christian[4] (*with* Rösch, Arnd) Superconvergence properties of optimal control problems. (English summary) **2005i:49024**

Micheletti, Stefano *see* **Formaggia, Luca et al.**, **2005h:65191**

Ming, Ping-bing *see* **Braess, Dietrich**, **2005f:74073**

Mohammadi, S. ★ Discontinuum mechanics. **2005g:74104**

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— *see also* **Huttunen, Tomi et al.**, **2005c:74042**

Mora, Peter *see* **Xing, Huilin et al.**, (**2005g:00014**)

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Morin, Pedro *see* **Bänsch, Eberhard et al.**, **2005b:35123**

Mosqueira, Gonzalo *see* **Cueto-Felgueroso, Luis et al.**

Murat, François *see* **Bernardi, Christine et al.**, **2005g:76074**

Naga, Ahmed (*with* Zhang, Zhi Min[2]) A posteriori error estimates based on the polynomial preserving recovery. (English summary) **2005k:65231**

Najib, K. (*with* Sandri, Dominique; Zine, A. M.) On a posteriori estimates for a linearized Oldroyd's problem. (English summary) **2005d:76001**

Nataraj, Neela *see* **Kulshreshtha, Kshitij et al.**, **2005b:74117**

Navarrina, Fermín *see* **Cueto-Felgueroso, Luis et al.**

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Nepomnyashchikh, Sergeĭ V. *see* **Kwak, D. Y. et al.**, (**2005i:65006**)

Nesliturk, A. I. (*with* Tezer-Sezgin, M.) The finite element method for MHD flow at high Hartmann numbers. (English summary) **2005j:76061**

Neuss, Nicolas (*with* Wieners, Christian) Criteria for the approximation property for multigrid methods in nonnested spaces. (English summary) **2005c:65117**

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Ni, Wei-Ming *see* **Chen, Goong et al.**, **2005f:35059**

Nicaise, Serge *see* **Creusé, Emmanuel et al.**, **2005g:65159**

Nicolet, André (*with* Guenneau, Sébastien; Geuzaine, Christophe A.; Zolla, Frédéric) Modelling of electromagnetic waves in periodic media with finite elements. (English summary)

Nie, Yu Feng (*with* Yin, Yun Hui; Zhou, Tian Xiao) Optimization of a combined hybrid scheme with 5-parameter stress mode. (Chinese. English summary)

Nochetto, Ricardo H. *see* **Bänsch, Eberhard et al.**, **2005b:35123**

Ohnimus, Stephan *see* **Stein, Erwin et al.**

Oller, S. *see* **Zalamea, F. et al.**, **2005d:74011**

Ol'shanskiĭ, M. A. (*with* Reusken, Arnold) Convergence analysis of a multigrid method for a convection-dominated model problem. (English summary) **2005j:65033**

— Analysis of a multigrid method for convection-diffusion equations with Dirichlet boundary conditions. (Russian. Russian summary) **2005k:65276**

Ortiz, Michael *see* **Lew, Adrian et al.**, **2005f:74034**

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Padrón, Miguel A. *see* **Plaza, Ángel et al.**, **2005f:65165**

Pal'tsev, B. V. (*with* Chechel', I. I.) Increasing the rate of convergence of bilinear finite-element realizations of iterative methods by splitting boundary conditions for Stokes-type systems for large values of a singular parameter. (Russian. Russian summary) **2005m:76116**

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Papademetris, Xenophon (*with* Škrinjar, Oskar; Duncan, James S.) Recovering displacements and deformations from 3D medical images using biomechanical models. (*see* **2005e:92001**)

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Pietra, Paola *see* **Holst, Stefan et al.**, **2005d:82130**

Plaza, Ángel (*with* Padrón, Miguel A.; Pablo Suárez Rivero, Jose; Falcón, Sergio) The 8-tetrahedra longest-edge partition of right-type tetrahedra. (English summary) **2005f:65165**

Popa, Mirela O. *see* **Mandel, Jan**, **2005m:65303**

Pousin, Jérôme (*with* Sassi, Taoufik) A posteriori error estimates and domain decomposition with nonmatching grids. (English summary) **2005m:65304**

Powar, P. L. Constructive aspects of the Hermite rational finite element over the convex polygon for cubic approximation.

Powell, Catherine Elizabeth (*with* Silvester, David J.) Optimal preconditioning for Raviart-Thomas mixed formulation of second-order elliptic problems. (English summary) **2005h:65054**

Pozrikidis, C. ★ Introduction to finite and spectral element methods using MATLAB®. **2005m:65003**

Pozzi, Paola The discrete Douglas problem: theory and numerics. (English summary) **2005g:53014**

Prohl, Andreas *see* **Kružík, Martin**, **2005h:47123**

Provatidis, Christopher G. Coons-patch macroelements in two-dimensional eigenvalue and scalar wave propagation problems. (English summary) **2005a:65014**

Pyo, H. C. *see* **Kwak, D. Y. et al.**, (**2005i:65006**)

Qi, He (*with* Wang, Lie-heng; Zheng, Wei-ying) On locking-free finite element schemes for three-dimensional elasticity. (English summary) **2005k:74077**

— *see also* **Wang, Lie-heng**, **2005f:74075**

Qiu, Zhi Ping[1] (*with* Wang, Xiaojun[2]) Several solution methods for the generalized complex eigenvalue problem with bounded uncertainties. (English summary) **2005i:70054**

Qu, Zu-Qing ★ Model order reduction techniques. **2005d:65004**

Rabczuk, T. (*with* Belytschko, Ted) Adaptivity for structured meshfree particle methods in 2D and 3D. (English summary) **2005m:74098**

Rachowicz, W. (*with* Zdunek, A.) An *hp*-adaptive finite element method for scattering problems in computational electromagnetics. (English summary) **2005k:78010**

— *see also* **Zdunek, A. et al.**, **2005k:78014**

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Reddy, J. N. ★ An introduction to nonlinear finite element analysis. **2005c:65001**
Ren, Chun Feng (*with* Ma, Yi Chen; Ying, Gen Jun) A two-grid method with backtracking technique for the Navier-Stokes equations. (Chinese. English summary) **2005b:65141**
— (*with* Ma, Yi Chen) Residual a posteriori error estimate two-grid methods for the steady Navier-Stokes equation with stream function form. (Chinese. English and Chinese summaries) **2005c:76065**
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— *see also* **Korotov, Sergey et al., (2005j:65003)**
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Ryan, Jennifer K. (*with* Shu, Chi-Wang) On a one-sided post-processing technique for the discontinuous Galerkin methods. (English summary)
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Sarkis, Marcus V. Partition of unity coarse spaces: enhanced versions, discontinuous coefficients and applications to elasticity. (*see* **2005f:65003**)
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— *see also* **Houston, Paul et al., 2005h:78027**
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Sergienko, Ivan V. (*with* Deĭneka, V. S.) Some problems in the ecology of soil media and the optimal control of processes occurring in them. (Russian. English and Ukrainian summaries) **2005e:49079**
— (*with* Deĭneka, V. S.) On the numerical solution of a problem in the dynamic theory of elasticity with a concentrated mass and a weakly rigid inclusion. (Russian. English summary) **2005g:74056**
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Sladek, J. (*with* Sladek, Valdimir; Atluri, Satya N.) Meshless local Petrov-Galerkin method in anisotropic elasticity. (English summary)
Sladek, Valdimir *see* **Sladek, J. et al.**
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Stein, Erwin (*with* Rüter, Marcus; Ohnimus, Stephan) Adaptive finite element analysis and modelling of solids and structures. Findings, problems and trends. (English summary)
Stephan, Ernst P. (*with* Maischak, Matthias) A posteriori error estimates for fem-bem couplings of three-dimensional electromagnetic problems. (English summary) **2005h:78028**
— *see also* **Maischak, Matthias, 2005i:74075**
Stevenson, Rob On the compressibility operators in wavelet coordinates. (English summary) **2005e:42128**
Stoyan, G. (*with* Strauber, G.; Baran, Ágnes) Generalizations to discrete and analytical Crouzeix-Velte decompositions. (English summary) **2005i:65084**
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Szabó, Barna (*with* Actis, Ricardo) On the importance and uses of feedback information in FEA. (English summary) **2005h:65192**
Taboada, Jose M. Evaluation of Galerkin integrals involving triangular-type wire-to-surface junctions in the method of moments. (English summary)
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Tiba, Dan *see* **Sprekels, Jürgen, 2005f:74040**
Timergaliev, S. N. The Bubnov-Galerkin method for the approximate solution of boundary value problems of the nonlinear theory of thin shells. (Russian. Russian summary) **2005b:74081**
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Veeser, Andreas *see* **Fierro, Francesca, 2005e:49063**
Vermolen, Fred J. (*with* Vuik, Kees; Segal, August) Deflation in preconditioned conjugate gradient methods for finite element problems. (*see* **2005c:65003**)
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Walkley, M. A. (*with* Gaskell, P. H.; Jimack, Peter K.; Kelmanson, M. A.; Summers, J. L.) Finite element simulation of three-dimensional free-surface flow problems with dynamic contact lines. (English summary) **2005j:76063**
Wan, Xiaoliang (*with* Xiu, Dongbin; Karniadakis, George Em) Stochastic solutions for the two-dimensional advection-diffusion equation. (English summary) **2005i:76089**
Wang, Jun Ping[1] (*with* Ye, Xiu) A superconvergent finite element scheme for the Reissner-Mindlin plate by projection methods. (English summary) **2005b:74121**
— *see also* **Badea, Lori et al., 2005a:65059**
Wang, Lie-heng (*with* Qi, He) A locking-free scheme of nonconforming rectangular finite element for the planar elasticity. (English summary) **2005f:74075**
— *see also* **Qi, He et al., 2005k:74077**
Wang, Song[1] (*with* Angermann, Lutz) On convergence of the exponentially fitted finite volume method with an anisotropic mesh refinement for a singularly perturbed convection-diffusion equation. (English summary) **2005d:65185**
Wang, Xiaojun[2] *see* **Qiu, Zhi Ping[1], 2005i:70054**
Waters, L. K. (*with* Fix, George J., III; Cox, Christopher L.) The method of Glowinski and Pironneau for the unsteady Stokes problem. (English summary) **2005i:76038**
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Xanthis, L. S. *see* **Korneev, Vadim G. et al., 2005g:65184**
Xie, Xiao Ping[3] From energy improvement to accuracy enhancement: improvement of plate bending elements by the combined hybrid method. (English summary) **2005b:74122**
— An accurate hybrid macro-element with linear displacements. (English summary)
Xing, Huilin (*with* Mora, Peter; Makinouchi, A.) Finite element simulation of stress evolution in a frictional contact system. (English summary) (*see* **2005g:00014**)
Xiu, Dongbin *see* **Wan, Xiaoliang et al., 2005i:76089**
Xu, Jin Chao (*with* Zhang, Zhi Min[2]) Analysis of recovery type a posteriori error estimators for mildly structured grids. (English summary) **2005f:65141**
Yang, Bin[5] (*with* Laursen, Tod A.; Meng, Xiaonong) Two dimensional mortar contact methods for large deformation frictional sliding. (English summary)
Yang, Hai Tian (*with* Liu, Ling[2]; Han, Zhi) The use of cyclic symmetry in two-dimensional elastic analysis by the element-free Galerkin method. (English summary)
Ye, Xiu *see* **Wang, Jun Ping[1], 2005b:74121**
Yin, Yun Hui *see* **Nie, Yu Feng et al.**
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Ying, Long An *see* **Zheng, Wei-ying, 2005d:81390**
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Yu, De Hao (*with* Zhao, Longhua) Boundary integral equations and a posteriori error estimates. (English summary)
— *see also* **Hu, Qi Ya et al., 2005h:65045**
Zalamea, F. (*with* Canet, J. Miquel; Oller, S.) ★ Tratamiento numérico de materiales compuestos mediante la teoría de homogeneización. (Spanish) [Numerical treatment of composite materials by the homogenization method] **2005d:74011**
Zboiński, G. A posteriori error estimation for hp-approximation of the 3D-based first order shell model. II. Implementation aspects. (English and Georgian summaries) **2005b:74123**

Zdunek, A. (*with* Rachowicz, W.; Sehlstedt, N.) Toward *hp*-adaptive solution of 3D electromagnetic scattering from cavities. (English summary) **2005k:78014**
— *see also* **Rachowicz, W., 2005k:78010**
Zhang, De-yue (*with* Ma, Fu-ming) The two-dimensional electromagnetic scattering from periodic chiral structures and its finite element approximation. (English summary) **2005c:78026**
Zhang, Shu Hua[3] *see* **Liu, Li Ping[2] et al., 2005k:65230**
Zhang, Wen Bo (*with* Sun, Che) Finite-volume and streamline-diffusion finite element method for steady convection dominated convection-diffusion problems. (Chinese. English summary) **2005b:76090**
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Zhang, Zhi Min[2] *see* **Xu, Jin Chao, 2005f:65141** *and* **Naga, Ahmed, 2005k:65231**
Zhao, Jie[3] Convergence of V- and F-cycle multigrid methods for the biharmonic problem using the Hsieh-Clough-Tocher element. (English summary) **2005k:65278**
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Zheng, Wei-ying (*with* Ying, Long An) Finite element approximations to the discrete spectrum of the Schrödinger operator with the Coulomb potential. (English summary) **2005d:81390**
— *see also* **Qi, He et al., 2005k:74077**
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Zhuo, Jie *see* **Li, Bing et al., (2005i:42002)**
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Zingoni, A. A group-theoretic formulation for symmetric finite elements. (English summary)
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Allasia, Giampietro (*with* De Rossi, Alessandra) Application of cardinal radial basis interpolation operators to numerical solution of the Poisson equation. (English summary) **2005m:65287**
Anttila, Juha (*with* Hämäläinen, Jyri; Saranen, Jukka) On the spline collocation for some pseudodifferential equations on the torus with non-uniform meshes. (English summary)
— (*with* Hämäläinen, Jyri; Saranen, Jukka) On the linear spline collocation for pseudodifferential equations on the torus. (English and Estonian summaries) **2005g:65178**
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Bialecki, Bernard (*with* Karageorghis, Andreas) Legendre Gauss spectral collocation for the Helmholtz equation on a rectangle. (English summary) **2005g:65179**
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Bonnefoy, Félicien (*with* Le Touzé, David; Ferrant, Pierre) A nonlinear spectral model for gravity waves generation and propagation in a bounded domain. (English summary) (*see* **2005b:00020**)
Boyd, John Philip Prolate spheroidal wavefunctions as an alternative to Chebyshev and Legendre polynomials for spectral element and pseudospectral algorithms. (English summary) **2005m:65288**
— Chebyshev solution of the nearly-singular one-dimensional Helmholtz equation and related singular perturbation equations: multiple scale series and the boundary layer rule-of-thumb. (English summary) **2005k:65267**
Choi, Yung Sze (*with* Javanainen, Juha; Koltracht, Israel; Koštrun, Marijan; McKenna, Patrick J.; Savytska, Nataliya) A fast algorithm for the solution of the time-independent Gross-Pitaevskii equation. (English summary) **2005f:65161**
Cohen, Gary C. (*with* Duruflé, Marc) Mixed spectral elements for the Helmholtz equation. (English summary) (*see* **2005b:00020**)
Costa, Bruno Spectral methods for partial differential equations. (English summary) **2005k:65268**
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De Rossi, Alessandra *see* **Allasia, Giampietro, 2005m:65287**
Diaz, M. A. (*with* Herrera, Ismael; Yates, Robert E.) Indirect method of collocation: 2nd order elliptic equations. (*see* **2005f:65003**)
Duruflé, Marc *see* **Cohen, Gary C., (2005b:00020)**
Fang, Weifu (*with* Lu, Mingying) A fast collocation method for an inverse boundary value problem. (English summary) **2005a:65140**
Ferrant, Pierre *see* **Bonnefoy, Félicien et al., (2005b:00020)**
Fokas, A. S. *see* **Fulton, S. R. et al., 2005d:65216**
Fulton, S. R. (*with* Fokas, A. S.; Xenophontos, C. A.) An analytical method for linear elliptic PDEs and its numerical implementation. (English summary) **2005d:65216**
Ganesh, Mahadevan Fully discrete spectral methods for boundary integral equations on slender spheroids. (English summary) **2005a:65141**
— (*with* Graham, I. G.) A high-order algorithm for obstacle scattering in three dimensions. (English summary) **2005d:65217**
Gopalakrishnan, Jayadeep (*with* Demkowicz, Leszek F.) Quasioptimality of some spectral mixed methods. (English summary) **2005d:65218**
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Guo, Ben-Yu (*with* Shen, Jie[1]; Xu, Cheng-long) Generalized Laguerre approximation and its applications to exterior problems. (English summary) **2005m:65289**
— *see also* **Wang, Zhong-qing, 2005c:65110**
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Heinrichs, Wilhelm Spectral collocation schemes on the unit disc. (English summary) **2005g:65180**
Herrera, Ismael *see* **Diaz, M. A. et al., (2005f:65003)**
Huang, Wen Bin (*with* Xu, Chuan Ju) Analysis of a two-dimensional finite element preconditioned spectral element method for the Poisson equation. (Chinese. English and Chinese summaries)
Ikeda, Youichi *see* **Kita, E. et al., (2005d:65006)**
Javanainen, Juha *see* **Choi, Yung Sze et al., 2005f:65161**
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Karageorghis, Andreas *see* **Bialecki, Bernard, 2005g:65179**
Kim, Sang Dong (*with* Lee, Hyung-Chun; Shin, Byeong Chun) Pseudospectral least-squares method for the second-order elliptic boundary value problem. (English summary) **2005d:65219**
Kita, E. (*with* Ikeda, Youichi; Kamiya, Norio) Sensitivity analysis of the Poisson equation using the Trefftz method. (English summary) (*see* **2005d:65006**)
Koltracht, Israel *see* **Choi, Yung Sze et al., 2005f:65161**
Koštrun, Marijan *see* **Choi, Yung Sze et al., 2005f:65161**
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Liang, Bei Radial basis functions for solving PDEs. (English and Chinese summaries) **2005c:65109**
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Mai-Duy, Nam Indirect RBFN method with scattered points for numerical solutions of PDEs. (English summary)
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Nguyen, Sébastien (*with* Delcarte, C.) A spectral collocation method to solve Helmholtz problems with boundary conditions involving mixed tangential and normal derivatives. (English summary) **2005f:65162**
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Pelinovsky, Dmitry E. (*with* Stepan′yants, Yu. A.) Convergence of Petviashvili's iteration method for numerical approximation of stationary solutions of nonlinear wave equations. (English summary) **2005i:65196**
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— *see also* **Guo, Ben-Yu et al., 2005m:65289**
Shin, Byeong Chun *see* **Kim, Sang Dong et al., 2005d:65219**
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Wang, Li-Lian *see* **Shen, Jie[1], 2005d:65220**
Wang, Zhong-qing (*with* Guo, Ben-Yu) Modified Legendre rational spectral method for the whole line. (English summary) **2005c:65110**
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Xu, Chuan Ju *see* **Huang, Wen Bin**
Yates, Robert E. *see* **Diaz, M. A. et al., (2005f:65003)**
Zheng, Yao *see* **Jin, Bangti, 2005k:65269**

Items with secondary classifications in 65N35

Abdellatif, Nehla (*with* Bernardi, Christine) A new formulation of the Stokes problem in a cylinder, and its spectral discretization. (English summary) **2005k:76028**
Belyaev, V. V. *see* **Shapeev, V. P. et al., 2005d:76011**
Bernardi, Christine (*with* Maday, Yvon; Rapetti, Francesca) ★ Discrétisations variationnelles de problèmes aux limites elliptiques. (French) [Variational discretizations of elliptic boundary value problems] **2005g:65004**
— *see also* **Abdellatif, Nehla, 2005k:76028**
Bettess, Peter *see* **Perrey-Debain, Emmanuel et al., 2005c:65111**
Cano-Casanova, Santiago (*with* López-Gómez, Julián; Molina-Meyer, Marcela) Isolas: compact solution components separated away from a given equilibrium curve. (English summary) **2005k:47153**
Choi, Wooyoung *see* **Li, Yi A. et al., 2005d:76005**
Dahmen, Wolfgang Multiscale and wavelet methods for operator equations. (English summary) (*see* **2005b:41001**)
Delgado, Vladimir (*with* Kasperski, Guillaume; Labrosse, Gérard) Spectrally accurate numerical incompressible flows with deformed boundaries: a finite volume preconditioning method. (English summary)
Driscoll, Tobin A. *see* **Platte, R. B., 2005m:65251**
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He, Li-Ping (*with* Du, Dong) Fast Legendre spectral tau approximation for evolutionary problems. (Chinese. English and Chinese summaries) **2005e:65154**
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Hon, Yiu-Chung *see* **Li, Ji Chun, 2005d:65231**
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Labrosse, Gérard *see* **Delgado, Vladimir et al.**
Lam, Kwok-Yan *see* **Wang, Q. X. et al.**

Li, Hua[4] *see* **Wang, Q. X. et al.**
Li, Ji Chun (*with* Hon, Yiu-Chung) Domain decomposition for radial basis meshless methods. (English summary) **2005d:65231**
Li, Jia[4] (*with* Hero, A. O., III) A fast spectral method for active 3D shape reconstruction. (English summary) **2005a:68221**
Li, Kai Tai *see* **Wang, He Yuan et al., 2005a:76115**
Li, Yi A. (*with* Hyman, James M.; Choi, Wooyoung) A numerical study of the exact evolution equations for surface waves in water of finite depth. (English summary) **2005d:76005**
Ling, Leevan (*with* Kansa, Edward J.) A least-squares preconditioner for radial basis functions collocation methods. (English summary) **2005m:65066**
Liu, Jian Ping[2] *see* **Wu, Zongmin, 2005e:65020**
López-Gómez, Julián *see* **Cano-Casanova, Santiago et al., 2005k:47153**
Maday, Yvon *see* **Bernardi, Christine et al., 2005g:65004**
Márquez Gentil, Antonio *see* **Meddahi, Salim et al., 2005b:65129**
Mathioudakis, E. N. (*with* Papadopoulou, E. P.; Saridakis, Y. G.) Iterative solution of elliptic collocation systems on a cognitive parallel computer. (English summary) **2005h:65198**
Meddahi, Salim (*with* Márquez Gentil, Antonio; Selgas, Virginia) Computing acoustic waves in an inhomogeneous medium of the plane by a coupling of spectral and finite elements. (English summary) **2005b:65129**
Mehdizadeh, Omid Z. (*with* Paraschivoiu, Marius) Investigation of a three-dimensional spectral element method for Helmholtz's equation. (English summary) (*see* **2005g:65009**)
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Perrey-Debain, Emmanuel (*with* Trevelyan, Jon; Bettess, Peter) Plane wave interpolation in direct collocation boundary element method for radiation and wave scattering: numerical aspects and applications. (English summary) **2005c:65111**
Platte, R. B. (*with* Driscoll, Tobin A.) Computing eigenmodes of elliptic operators using radial basis functions. (English summary) **2005m:65251**
Pozrikidis, C. ★ Introduction to finite and spectral element methods using MATLAB®. **2005m:65003**
Rapetti, Francesca *see* **Bernardi, Christine et al., 2005g:65004**
Rashid, Abdur A spectral method for the Navier-Stokes equations on the spherical surface. (English summary) **2005k:76091**
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Semin, L. G. *see* **Shapeev, V. P. et al., 2005d:76011**
Shapeev, V. P. (*with* Semin, L. G.; Belyaev, V. V.) The collocation and least squares method for numerical solution of Navier-Stokes equations. (English summary) **2005d:76011**
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Turk, G. *see* **Vrankar, L. et al., 2005h:86002**
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Wang, He Yuan (*with* Li, Kai Tai; Zhang, Yindi) Spectral approximation of TB point of the Navier-Stokes equations in two concentric rotating spheres. (English summary) **2005a:76115**
Wang, Q. X. (*with* Li, Hua[4]; Lam, Kwok-Yan) Development of a new meshless-point weighted least-squares (PWLS) method for computational mechanics. (English summary)
Wendland, Holger Solving large generalized interpolation problems efficiently. (English summary) **2005e:41013**
Wu, Zongmin (*with* Liu, Jian Ping[2]) Meshless method for numerical solution of PDE using Hermitian interpolation with radial basis. (English summary) **2005e:65020**
Zhang, Yindi *see* **Wang, He Yuan et al., 2005a:76115**

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Abe, Kazuhisa *see* **Koro, K., (2005d:65006)**
Ademoyero, O. O. (*with* Bartholomew-Biggs, Michael; Davies, Alan J.; Parkhurst, S. C.) Conjugate gradient algorithms and the Galerkin boundary element method. (English summary)
Allan, P. (*with* Watt, A.) A study of corrosion related electromagnetic signatures of marine vessels using a BEM. (English summary) (*see* **2005d:65006**)
Arai, Y. *see* **Tanaka, Masataka et al., (2005d:65006)**
Bao, Zhongping (*with* Mukherjee, Subrata) Electrostatic BEM for MEMS with thin beams. (English summary)
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Börm, Steffen Fast evaluation of eddy current integral operators. (English summary) **2005j:65153**
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Buchau, André (*with* Hafla, Wolfgang; Groh, F.; Rucker, Wolfgang M.) Fast multipole boundary element method for the solution of 3D electrostatic field problems. (English summary) (*see* **2005d:65006**)
— (*with* Hafla, Wolfgang; Rucker, Wolfgang M.) Fast and efficient 3D boundary element method for closed domains. (English summary) **2005j:65154**
Buffa, Annalisa (*with* Hiptmair, Ralf) A coercive combined field integral equation for electromagnetic scattering. (English summary) **2005k:65270**
— (*with* Hiptmair, Ralf) Regularized combined field integral equations. (English summary) **2005m:65292**
Callsen, S. (*with* von Estorff, O.; Zaleski, O.) Direct and indirect approach of a desingularized boundary element formulation for acoustical problems. (English summary)
Carstensen, Carsten (*with* Praetorius, Dirk) A posteriori error control in adaptive qualocation boundary element analysis for a logarithmic-kernel integral equation of the first kind. (English summary) **2005a:65142**
Chakraborty, Swagato (*with* Jandhyala, Vikram) Evaluation of Green's function integrals in conducting media. (English summary)
Chandler-Wilde, Simon N. (*with* Langdon, Stephen; Ritter, Lars) A Galerkin boundary element method for a high frequency scattering problem. (*see* **2005b:00020**)
Chen, Goong (*with* Deng, Yuanhua; Ni, Wei-Ming; Zhou, Jianxin) Semilinear elliptic boundary value problems with nonlinear oblique boundary conditions, a boundary element monotone iteration approach. (English summary) **2005i:65197**
Chen, Hai Bo[3] (*with* Jin, Jianfeng; Zhang, Peiqiang; Lu, Pin[2]) Multi-variable non-singular BEM for 2-D potential problems. (English summary)
Davies, Alan J. *see* **Ademoyero, O. O. et al.**
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Dular, Patrick *see* **Sabariego, R. V. et al.**
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Gáspár, C. Boundary interpolation vs boundary elements: theory and some applications. (English summary) (*see* **2005d:65006**)
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Grasedyck, Lars (*with* Hackbusch, Wolfgang; Le Borne, S.) Adaptive geometrically balanced clustering of $\mathscr{H}$-matrices. (English summary) **2005g:65181**
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Jin, Jianfeng *see* **Chen, Hai Bo[3] et al.**
Johnston, Peter R. (*with* Elliott, David) A sinh transformation for evaluating nearly singular boundary element integrals. (English summary) **2005k:65271**
Kanaun, S. (*with* Romero Medina, Victor) Boundary point method in the dynamic and static problems of mathematical physics. (*see* **2005f:65003**)
Keum, Bangyong (*with* Liu, Yi Jun[1]) Analysis of 3-D frictional contact mechanics problems by a boundary element method. (English summary)
Koro, K. (*with* Abe, Kazuhisa) Matrix compression schemes for wavelet BEM and their performance. (English summary) (*see* **2005d:65006**)
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Leont'ev, A. N. (*with* Huacasi, W.; Herskovits, J.; Mota Soares, Cristóvão M.) Numerical simulation of the forest impact on aquifers. (English summary)
Lesnic, Daniel *see* **Marin, Liviu et al., 2005e:65190**
Lin, Tzu-Chu (*with* Warnapala-Yehiya, Y.) The numerical solution of exterior Neumann problem for Helmholtz's equation via modified Green's functions approach. (English summary) **2005a:65143**
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Maischak, Matthias (*with* Stephan, Ernst P.; Tran, Thanh) A multiplicative Schwarz algorithm for the Galerkin boundary element approximation of the weakly singular integral operator in three dimensions. (English summary) **2005k:65272**
Mantič, V. *see* **Marin, Liviu et al., 2005e:65190**
Manzoli, Osvaldo L. (*with* Venturini, Wilson Sergio) A BEM formulation for the numerical simulation of strong discontinuities. (Portuguese. English and Portuguese summaries)
Margonari, Massimiliano (*with* Bonnet, Marc) Fast multipole method applied to elastostatic BEM-FEM coupling. (English summary) **2005m:65293**
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Natalini, B. (*with* Popov, Viktor) Radial basis function selection in 3D DRM-MD for potential problems. (English summary) (*see* **2005d:65006**)
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Ochiai, Yoshihiro (*with* Sladek, Valdimir) Numerical treatment of domain integrals without internal cells in three-dimensional BIEM formulations. (English summary)
Onyejekwe, Okey Oseloka Green element method for 2D Helmholtz and convection diffusion problems with variable velocity coefficients. (English summary) **2005j:65156**

Parkhurst, S. C. *see* **Ademoyero, O. O. et al.**
Paulino, Glaucio H. *see* **Sutradhar, Alok et al., 2005j:65158**
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Perrey-Debain, Emmanuel (*with* Trevelyan, Jon; Bettess, Peter) Plane wave interpolation in direct collocation boundary element method for radiation and wave scattering: numerical aspects and applications. (English summary) **2005c:65111**
Poljak, D. (*with* Kovac, N.; Samardzioska, T.; Peratta, Andrés; Brebbia, C. A.) Temperature rise in the human body exposed to radiation from base station antennas. (English summary) (*see* **2005d:65006**)
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Samardzioska, T. *see* **Poljak, D. et al., (2005d:65006)**
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Stolper, Mirjam (*with* Rjasanow, Sergej) A compression method for the Helmholtz equation. (English summary) (*see* **2005j:65003**)
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Sutradhar, Alok (*with* Paulino, Glaucio H.; Gray, L. J.) On hypersingular surface integrals in the symmetric Galerkin boundary element method: application to heat conduction in exponentially graded materials. (English summary) **2005j:65158**
Tanaka, Masataka (*with* Matsumoto, Takashi; Arai, Y.) Combined application of BEM and cellular automata to some shape optimization in acoustic fields. (English summary) (*see* **2005d:65006**)
Tausch, J. The variable order fast multipole method for boundary integral equations of the second kind. (English summary) **2005h:65230**
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Trevelyan, Jon *see* **Perrey-Debain, Emmanuel et al., 2005c:65111**
Venturini, Wilson Sergio *see* **Manzoli, Osvaldo L.**
Wang, Haitao *see* **Wang, Pengbo et al.**
Wang, Pengbo (*with* Yao, Zhen Han; Wang, Haitao) Fast multipole BEM for simulation of 2-D solids containing large numbers of cracks. (English summary)
Wang, Ping Shu The natural integral equation and Poisson formula of an elliptic system on the upper-half plane. (Chinese. English and Chinese summaries)
Wang, Yan Bo[1] *see* **Yang, Xin[2] et al., 2005d:65221**
Warnapala-Yehiya, Y. *see* **Lin, Tzu-Chu, 2005a:65143**
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Xuedao, S. The new 3-D contact boundary element method of load peculiarity in a roller bearing. (English summary) (*see* **2005d:65006**)
Yang, Hong Yong[1] *see* **Yang, Xin[2] et al., 2005d:65221**
Yang, Xin[2] (*with* Yang, Hong Yong[1]; Wang, Yan Bo[1]) Collocation boundary element method for a conductivity equation with piecewise constant coefficient. (Chinese. English and Chinese summaries) **2005d:65221**
Yao, Zhen Han *see* **Zhao, Libin** *and* **Wang, Pengbo et al.**
Yu, Chun Xiao (*with* Shen, Guangxian; Liu, Deyi) Mathematical programming solution for the frictional contact multipole BEM. (English summary)
Yu, De Hao Natural boundary integral method and its new development. (English summary)
Zaleski, O. *see* **Callsen, S. et al.**
Zhang, Peiqiang *see* **Chen, Hai Bo[3] et al.**
Zhang, Ran (*with* Jiang, Zheng-yi) A kind of boundary element methods for boundary value problem of Helmholtz equation.
Zhao, Libin (*with* Yao, Zhen Han) Fast multipole BEM for 3-D elastostatic problems with applications for thin structures. (English summary)
Zhou, Jianxin *see* **Chen, Goong et al., 2005i:65197**

Items with secondary classifications in 65N38

Amado Mendes, P. (*with* Tadeu, A.; António, J.) Scattering of 3D acoustic waves by cracks using two different boundary elements formulations. (English summary) (*see* **2005d:65006**)
Antoine, Xavier (*with* Darbas, Marion; Lu, Ya Yan) An improved on-surface radiation condition for acoustic scattering problems in the high-frequency spectrum. (English and French summaries) **2005k:76117**
António, J. *see* **Amado Mendes, P. et al., (2005d:65006)**
Ariza, M. P. *see* **Solís, Mario et al., (2005d:65006)**
Barrientos, Mauricio A. (*with* Gatica, Gabriel N.; Rodríguez, Rodolfo; Torrejón, Marcela E.) Analysis of a coupled BEM/FEM eigensolver for the hydroelastic vibrations problem. (English summary) **2005m:74040**
Bayliss, M. T. (*with* El-Zafrany, A.) Numerical modelling of elastomers using the boundary element method. (English summary)
Bebendorf, M. Hierarchical LU decomposition-based preconditioners for BEM. (English summary) **2005m:65056**
Becker, Wilfried *see* **Lindemann, Jan**
(Brebbia, C. A.) *see* **Boundary elements XXVI, 2005d:65006**
Brož, P. Progress of BE fatigue fracture solutions. (English summary) (*see* **2005d:65006**)
Carstensen, Carsten (*with* Maischak, Matthias; Praetorius, Dirk; Stephan, Ernst P.) Residual-based a posteriori error estimate for hypersingular equation on surfaces. (English summary) **2005c:65119**
Celorrio, Ricardo (*with* Domínguez, Víctor; Sayas, Francisco-Javier) Overlapped BEM-FEM and some Schwarz iterations. (English summary) **2005k:65243**
Chakib, A. (*with* Nachaoui, Abdeljalil) Nonlinear programming approach for a transient free boundary flow problem. (English summary) **2005g:76114**
Chandler-Wilde, Simon N. (*with* Langdon, Stephen; Ritter, Lars) A high-wavenumber boundary-element method for an acoustic scattering problem. (English summary) **2005e:65181**
Chaves, R. A. P. *see* **Dumont, Ney A. et al., (2005d:65006)**
Chen, I-Lin *see* **Chen, Jeng-Tzong et al.**
Chen, Jeng-Tzong (*with* Lin, Tzong-Wey; Chen, I-Lin; Lee, Yang-Jye) Fictitious frequency for the exterior Helmholtz equation subject to the mixed-type boundary condition using BEMs. (English summary)
Cheng, Yueming (*with* McVay, Duane A.; Lee, William John) BEM for 3D unsteady-state flow problems in porous media with a finite-conductivity horizontal wellbore. (English summary) **2005i:76077**
Darbas, Marion *see* **Antoine, Xavier et al., 2005k:76117**
Dargush, G. F. *see* **Grigoriev, M. M.**
De Coster, J. *see* **Sabariego, R. V. et al., 2005j:65148**
Domínguez, José *see* **Solís, Mario et al., (2005d:65006)**
Domínguez, Víctor *see* **Celorrio, Ricardo et al., 2005k:65243**
Dular, Patrick *see* **Sabariego, R. V. et al., 2005j:65148**
Dumont, Ney A. (*with* Oliveira, M. F. F.; Chaves, R. A. P.) Conventional, hybrid and simplified boundary element methods. (English summary) (*see* **2005d:65006**)
El Hajji, S. *see* **Essaouini, M. et al., 2005m:65245**
Elliott, Lionel *see* **Marin, Liviu et al., 2005g:65095**
El-Zafrany, A. *see* **Vlachogiannis, I. V., (2005d:65006); Franco-Nava, J. M., (2005d:65006)** *and* **Bayliss, M. T.**
Essaouini, M. (*with* Nachaoui, Abdeljalil; El Hajji, S.) Numerical method for solving a class of nonlinear elliptic inverse problems. (English summary) **2005m:65245**
Ferreira, C. P. *see* **Zacarias, G. D. et al.**
Flórez, W. *see* **Giraldo, M. et al., (2005d:65006)**
Franco-Nava, J. M. (*with* El-Zafrany, A.) Hyper-singular boundary element method for elastic fracture mechanics analysis with large deformation. (English summary) (*see* **2005d:65006**)
Freddi, F. (*with* Salvadori, Alberto; Savoia, Marco) Boundary element analysis of FRP-concrete delamination. (English summary) (*see* **2005d:65006**)
Gallegos, C. M. (*with* Mammoli, A. A.) A two dimensional numerical study of viscous fingering in a porous medium. (English summary) (*see* **2005b:65003**)
Gatica, Gabriel N. *see* **Barrientos, Mauricio A. et al., 2005m:74040**
Giraldo, M. (*with* Flórez, W.; Isaza, C. A.) Modelling and simulation of a Savonius rotor using the boundary element method. (English summary) (*see* **2005d:65006**)
Grigoriev, M. M. (*with* Dargush, G. F.) Efficiency of boundary element methods for time-dependent convective heat diffusion at high Peclet numbers. (English summary)
Guao, T. L. *see* **Shiah, Y. C. et al.**
Gyselinck, Johan *see* **Sabariego, R. V. et al., 2005j:65148**
Hameyer, Kay *see* **Sabariego, R. V. et al., 2005j:65148**
Handrik, Marián *see* **Kompiš, Vladimír et al., 2005f:65152**
Harbrecht, Helmut (*with* Schneider, Reinhold) Biorthogonal wavelet bases for the boundary element method. (English summary) **2005g:42080**
Heggs, P. J. *see* **Marin, Liviu et al., 2005g:65095**
Henrotte, François *see* **Sabariego, R. V. et al., 2005j:65148**
Huang, Jin[1] (*with* Lü, Tao) Mechanical quadrature methods and their splitting extrapolations for first-kind boundary integral equations on polygonal regions. (Chinese. English summary) **2005c:65121**
Ingham, Derek B. *see* **Marin, Liviu et al., 2005g:65095**
Isaza, C. A. *see* **Giraldo, M. et al., (2005d:65006)**
Kang, Tong *see* **Wu, Zheng Peng et al., 2005e:65187**
Karageorghis, Andreas *see* **Smyrlis, Yiorgos-Sokratis, 2005k:65224**
Kompiš, Vladimír (*with* Toma, Milan; Žmindák, Milan; Handrik, Marián) Use of Trefftz functions in non-linear BEM/FEM. (English summary) **2005f:65152**
Kugblenu, M. *see* **Procházka, Petr, (2005d:65006)**
Langdon, Stephen *see* **Chandler-Wilde, Simon N. et al., 2005e:65181**
Lee, Chi King (*with* Lie, S. T.; Shuai, Y. Y.) On coupling of reproducing kernel particle method and boundary element method. (English summary)
Lee, William John *see* **Cheng, Yueming et al., 2005i:76077**
Lee, Yang-Jye *see* **Chen, Jeng-Tzong et al.**
Leite, L. G. S. (*with* Venturini, Wilson Sergio) Boundary element formulation for 2D solids with stiff and soft inclusions. (English summary) (*see* **2005d:65006**)
Lesnic, Daniel *see* **Marin, Liviu et al., 2005g:65095**
Lie, S. T. *see* **Lee, Chi King et al.**
Lin, Tzong-Wey *see* **Chen, Jeng-Tzong et al.**
Lindemann, Jan (*with* Becker, Wilfried) Investigation of stress-concentration problems in composite laminates by the boundary finite element method. (English summary)
Lü, Tao *see* **Huang, Jin[1], 2005c:65121**
Lu, Ya Yan *see* **Antoine, Xavier et al., 2005k:76117**
Maischak, Matthias (*with* Stephan, Ernst P.) A least squares coupling method with finite elements and boundary elements for transmission problems. (English summary)

2005h:65219
— (*with* Stephan, Ernst P.) A FEM-BEM coupling method for a nonlinear transmission problem modelling Coulomb friction contact. (English summary) **2005i:74075**
— *see also* **Carstensen, Carsten et al., 2005c:65119** *and* **Stephan, Ernst P., 2005h:78028**
Manmoli, A. A. *see* **Gallegos, C. M., (2005b:65003)**
Mansur, W. J. *see* **Soares, D., Jr.**
Marin, Liviu (*with* Elliott, Lionel; Heggs, P. J.; Ingham, Derek B.; Lesnic, Daniel; Wen, Xian Yun) Comparison of regularization methods for solving the Cauchy problem associated with the Helmholtz equation. (English summary) **2005g:65095**
Márquez Gentil, Antonio (*with* Meddahi, Salim; Selgas, Virginia) A new BEM-FEM coupling strategy for two-dimensional fluid-solid interaction problems. (English summary) **2005b:74041**
— *see also* **Meddahi, Salim et al., (2005b:00020)**
McVay, Duane A. *see* **Cheng, Yueming et al., 2005i:76077**
Meddahi, Salim (*with* Márquez Gentil, Antonio; Selgas, Virginia) A coupling of spectral and finite elements for an acoustic scattering problem. (*see* **2005b:00020**)
— *see also* **Márquez Gentil, Antonio et al., 2005b:74041**
Nachaoui, Abdeljalil An improved implementation of an iterative method in boundary identification problems. (English summary) **2005f:65142**
— Numerical linear algebra for reconstruction inverse problems. (English summary) **2005e:65177**
— *see also* **Chakib, A., 2005g:76114** *and* **Essaouini, M. et al., 2005m:65245**
Oliveira, M. F. F. *see* **Dumont, Ney A. et al., (2005d:65006)**
Palermo, L., Jr. Plate analysis under dynamic loads considering the shear deformation effect. (English summary) (*see* **2005d:65006**)
Peratta, Andrés (*with* Popov, Viktor) A BEM DRM-MD for flow and transport in 3D fracture networks. (English summary) (*see* **2005d:65006**)
Popov, Viktor *see* **Peratta, Andrés, (2005d:65006)**
Praetorius, Dirk *see* **Carstensen, Carsten et al., 2005c:65119**
Procházka, Petr (*with* Kugblenu, M.) 3D BEM formulation of stability of tunnel face. (English summary) (*see* **2005d:65006**)
Qatanani, Naji (*with* Schulz, Monika) The heat radiation problem: three-dimensional analysis for arbitrary enclosure geometries. (English summary) **2005f:80003**
Ritter, Lars *see* **Chandler-Wilde, Simon N. et al., 2005e:65181**
Rodríguez, Rodolfo *see* **Barrientos, Mauricio A. et al., 2005m:74040**
Sabariego, R. V. (*with* Gyselinck, Johan; Dular, Patrick; De Coster, J.; Henrotte, François; Hameyer, Kay) Coupled mechanical-electrostatic FE-BE analysis with FMM acceleration: application to a shunt capacitive MEMS switch. (English summary) **2005j:65148**
Salvadori, Alberto *see* **Freddi, F. et al., (2005d:65006)**
Savoia, Marco *see* **Freddi, F. et al., (2005d:65006)**
Sayas, Francisco-Javier *see* **Celorrio, Ricardo et al., 2005k:65243**
Schneider, Reinhold *see* **Harbrecht, Helmut, 2005g:42080**
Schulz, Monika *see* **Qatanani, Naji, 2005f:80003**
Selgas, Virginia *see* **Márquez Gentil, Antonio et al., 2005b:74041** *and* **Meddahi, Salim et al., (2005b:00020)**
Shiah, Y. C. (*with* Guao, T. L.; Tan, Choon-Lai) Two-dimensional BEM thermoelastic analysis of anisotropic media with concentrated heat sources. (English summary)
Shuai, Y. Y. *see* **Lee, Chi King et al.**
Smyrlis, Yiorgos-Sokratis (*with* Karageorghis, Andreas) Numerical analysis of the MFS for certain harmonic problems. (English summary) **2005k:65224**
Soares, D., Jr. (*with* Mansur, W. J.) An efficient time-domain BEM/FEM coupling for acoustic-elastodynamic interaction problems. (English summary)
Solís, Mario (*with* Ariza, M. P.; Domínguez, José) Time harmonic and static crack problems in 3-D transversely isotropic bodies. (English summary) (*see* **2005d:65006**)
Stephan, Ernst P. (*with* Maischak, Matthias) A posteriori error estimates for fem-bem couplings of three-dimensional electromagnetic problems. (English summary) **2005h:78028**
— *see also* **Carstensen, Carsten et al., 2005c:65119**; **Maischak, Matthias, 2005h:65219** *and* **2005i:74075**
Stevenson, Rob On the compressibility operators in wavelet coordinates. (English summary) **2005e:42128**
Tadeu, A. *see* **Amado Mendes, P. et al., (2005d:65006)**
Tan, Choon-Lai *see* **Shiah, Y. C. et al.**
Toma, Milan *see* **Kompiš, Vladimír et al., 2005f:65152**
Torrejón, Marcela E. *see* **Barrientos, Mauricio A. et al., 2005m:74040**
Velasco-Hernández, J. X. *see* **Zacarias, G. D. et al.**
Venturini, Wilson Sergio *see* **Leite, L. G. S., (2005d:65006)**
Vlachogiannis, I. V. (*with* El-Zafrany, A.) Boundary element analysis of elastic frictional contact problems with finite strains. (English summary) (*see* **2005d:65006**)
Wang, Haitao (*with* Yao, Zhen Han) A new fast multipole boundary element method for large scale analysis of mechanical properties in 3D particle-reinforced composites. (English summary)
Wen, Xian Yun *see* **Marin, Liviu et al., 2005g:65095**
Wu, Zheng Peng (*with* Yu, De Hao) Coupling of natural boundary element and finite element for semilinear boundary value problems. (Chinese. English summary) **2005h:65225**
— (*with* Kang, Tong; Yu, De Hao) On the coupled NBEM and FEM for a class of nonlinear exterior Dirichlet problem in R^{2*}. (English summary) **2005e:65187**
Yao, Zhen Han *see* **Wang, Haitao**
Yu, De Hao *see* **Wu, Zheng Peng et al., 2005e:65187** *and* **2005h:65225**
Zacarias, G. D. (*with* Ferreira, C. P.; Velasco-Hernández, J. X.) Porosity and tortuosity relations as revealed by a mathematical model of biofilm structure. (English summary)
Žmindák, Milan *see* **Kompiš, Vladimír et al., 2005f:65152**

Items listed otherwise than by author

Bologna ★ Boundary elements XXVI. **2005d:65006**
Boundary elements XXVI ★ Boundary elements XXVI. **2005d:65006**

65N40 Method of lines

Aliyev, Hamza F. (*with* Imranov, Fariz B.) On convergence of lines method at approximate solution of one partial differential equation of elliptic type. (English summary) **2005h:65231**
Imranov, Fariz B. *see* **Aliyev, Hamza F., 2005h:65231**
Zadorin, A. I. A method of lines for an elliptic problem with boundary layers along a strip. (English summary) (*see* **2005i:65006**)

Items with secondary classifications in 65N40

Campo, Antonio On the asymptotic solution of the Graetz-Nusselt problem for short $x \to 0$ and large $x \to \infty$ with partial usage of finite differences. (English summary)

65N50 Mesh generation and refinement

Anderson, Dale A. *see* **Liao, Guojun et al., 2005m:65297**
Anderson, Michael Lindsay *see* **Carey, Graham F. et al., 2005a:65146**
Athanasiadis, Aristotelis N. (*with* Deconinck, Herman) Hierarchical parameter setting for hybrid grid generation based on the STEP model representation. (English summary)
Bank, Randolph E. (*with* Lu, Shaoying) A domain decomposition solver for a parallel adaptive meshing paradigm. (English summary) **2005i:65199**
Barad, Michael (*with* Colella, Phillip) A fourth-order accurate local refinement method for Poisson's equation. (English summary) **2005m:65295**
Barrera-Sánchez, P. (*with* González Flores, G. F.; Domínguez-Mota, F. J.) Robust discrete grid generation on plane irregular regions. (Russian summary) **2005a:65145**
Becker, Roland (*with* Vexler, Boris) Mesh refinement and numerical sensitivity analysis for parameter calibration of partial differential equations. (English summary) **2005k:65273**
Binev, Petăr G. (*with* Dahmen, Wolfgang; DeVore, Ronald) Adaptive finite element methods with convergence rates. (English summary) **2005d:65222**
Breitkopf, Piotr (*with* Rassineux, Alain; Villon, Pierre) An introduction to moving least squares meshfree methods. **2005h:65232**
Cai, Xian-Xin (*with* Fleitas, D.; Jiang, Bonan; Liao, Guojun) Adaptive grid generation based on the least-squares finite-element method. (English summary) **2005j:65159**
Carey, Graham F. (*with* Anderson, Michael Lindsay; Carnes, B.; Kirk, Benjamin S.) Some aspects of adaptive grid technology related to boundary and interior layers. (English summary) **2005a:65146**
Carnes, B. *see* **Carey, Graham F. et al., 2005a:65146**
Choi, Woo-Young (*with* Son, Il-Heon; Im, Yong-Taek) Locally refined tetrahedral mesh generation based on advancing front technique with optimization and smoothing scheme. (English summary)
Clemens, Markus *see* **De Gersem, Herbert et al.**
Cockburn, Bernardo (*with* Yenikaya, Bayram) An adaptive method with rigorous error control for the Hamilton-Jacobi equations. I. The one-dimensional steady state case. (English summary) **2005i:65200**
Colella, Phillip *see* **Barad, Michael, 2005m:65295**
Conti, Costanza (*with* Morandi, Rossana; Scaramelli, D.) Using discrete uniformity property in a mixed algebraic method. (English summary) **2005h:65233**
— (*with* Morandi, Rossana) Re-parameterisation technique in algebraic numerical grid generation via subdivision schemes. (English summary) **2005j:65160**
— (*with* Morandi, Rossana; Spitaleri, Rosa Maria) An algebraic-elliptic algorithm for boundary orthogonal grid generation. (English summary) **2005h:65234**
Dahmen, Wolfgang *see* **Binev, Petăr G. et al., 2005d:65222**
Deconinck, Herman *see* **Athanasiadis, Aristotelis N.**
De Gersem, Herbert (*with* Wilke, Markus; Clemens, Markus; Weiland, Thomas) Efficient modelling techniques for complicated boundary conditions applied to structured grids. (English summary)
Delanaye, M. (*with* Hirsch, Ch.; Kovalev, K.) Untangling and optimization of unstructured hexahedral meshes. (Russian summary) **2005b:65133**
Demkowicz, Leszek F. Fully automatic *hp*-adaptivity for Maxwell's equations. (English summary) **2005m:65296**
— *see also* **Xue, Dong**
DeVore, Ronald *see* **Binev, Petăr G. et al., 2005d:65222**
Dolejší, Vít (*with* Felcman, Jiří) Anisotropic mesh adaptation for numerical solution of boundary value problems. (English summary) **2005g:65182**
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Dompierre, J. *see* **Labbé, P. et al., 2005h:65237**
Du, Qiang (*with* Wang, Desheng) Boundary recovery for three dimensional conforming Delaunay triangulation. (English summary) **2005d:65223**
— (*with* Wang, Desheng) Constrained boundary recovery for three dimensional Delaunay triangulations. (English summary) **2005e:65191**
Egidi, Nadaniela (*with* Maponi, Pierluigi) An efficient version of the direct method for planar grid generation. (English summary) **2005b:65134**
— (*with* Maponi, Pierluigi) A class of network optimization methods for planar grid generation. (English summary) **2005h:65235**
El Boukili, A. (*with* Madrane, A.; Vaillancourt, Rémi) Unstructured grid adaptation for convection-dominated semiconductor equations. (English summary) **2005a:65147**
Escobar, José María *see* **Montenegro, Rafael Alejandro et al., (2005c:00014)** *and* **(2005m:00008)**
Falcón, Sergio *see* **Plaza, Ángel et al., 2005f:65165**
Felcman, Jiří *see* **Dolejší, Vít, 2005g:65182**
Fleitas, D. *see* **Cai, Xian-Xin et al., 2005j:65159**
Garanzha, V. A. Variational principles in grid generation and geometric modelling: theoretical justifications and open problems. (English summary) **2005d:65224**
González Flores, G. F. *see* **Barrera-Sánchez, P. et al., 2005a:65145**
González-Yuste, José María *see* **Montenegro, Rafael Alejandro et al., (2005c:00014)** *and* **(2005m:00008)**
Graziadei, M. (*with* Mattheij, Robert M. M.; ten Thije Boonkkamp, J. H. M.) Local defect correction with slanting grids. (English summary) **2005b:65135**
Guibault, F. *see* **Labbé, P. et al., 2005h:65237**
Gutiérrez, Claudio (*with* Gutiérrez, Flavio; Rivara, Maria-Cecilia) A geometric approach to the bisection method. (English summary) (*see* **2005d:68010**)

Gutiérrez, Flavio *see* **Gutiérrez, Claudio et al.**, (**2005d:68010**)
Hagen, Hans *see* **Weber, Gunther H. et al.**, (**2005a:65002**)
Hamann, Bernd *see* **Weber, Gunther H. et al.**, (**2005a:65002**)
Haškovec, Jan (*with* Šolín, Pavel) On a novel technique for parallel unstructured mesh generation in 3D. (English summary) (*see* **2005j:65003**)
Heath, Michael T. *see* **Jiao, Xiangmin**, **2005f:65164**
Hirsch, Ch. *see* **Delanaye, M. et al.**, **2005b:65133**
Huang, Wei Zhang[1] Metric tensors for anisotropic mesh generation. (English summary) **2005k:65274**
Im, Yong-Taek *see* **Choi, Woo-Young et al.**
Jiang, Bonan *see* **Cai, Xian-Xin et al.**, **2005j:65159**
Jiao, Xiangmin (*with* Heath, Michael T.) Common-refinement-based data transfer between non-matching meshes in multiphysics simulations. (English summary) **2005f:65164**
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Kirk, Benjamin S. *see* **Carey, Graham F. et al.**, **2005a:65146**
Kitaeva, I. A. *see* **Liseĭkin, V. D. et al.**, (**2005i:65006**)
Kopysov, S. P. (*with* Novikov, A. K.) Analysis of methods for the rebuilding of triangular finite-element grids. (Russian) (*see* **2005b:00029**)
Korotov, Sergey (*with* Stańdo, Jacek) Nonstandard nonobtuse refinements of planar triangulations. **2005h:65236**
— *see also* **Neittaanmäki, Pekka et al.**, (**2005c:65003**)
Kovalev, K. *see* **Delanaye, M. et al.**, **2005b:65133**
Kreylos, Oliver *see* **Weber, Gunther H. et al.**, (**2005a:65002**)
Křížek, Michal (*with* Šolc, Jakub) Acute versus nonobtuse tetrahedralizations. **2005i:65201**
Labbé, P. (*with* Dompierre, J.; Vallet, M.-G.; Guibault, F.; Trépanier, J.-Y.) A universal measure of the conformity of a mesh with respect to an anisotropic metric field. (English summary) **2005h:65237**
Lee, Barry (*with* McCormick, Stephen F.; Philip, Bobby; Quinlan, Daniel J.) Asynchronous fast adaptive composite-grid methods: numerical results. (English summary) **2005e:65192**
Lee, Swungho (*with* Soni, B. K.) The enhancement of an elliptic grid using appropriate control functions. (English summary) **2005h:65238**
Lei, Zhong *see* **Liao, Guojun et al.**, **2005m:65297**
Li, Ruo (*with* Liu, Wen Bin[1]; Ma, He Ping) Moving mesh method with error-estimator-based monitor and its applications to static obstacle problem. (English summary) **2005b:65136**
Li, Tak Sing Hexahedral mesh generation driven by concavity. (*see* **2005m:00008**)
Li, Zhong[5] *see* **Wang, Rui Li et al.**
Liao, Guojun (*with* Su, Jianzhong; Lei, Zhong; de la Pena, Gary C.; Anderson, Dale A.) A moving finite difference method for partial differential equations. (English summary) **2005m:65297**
— *see also* **Cai, Xian-Xin et al.**, **2005j:65159**
Ligocki, Terry J. *see* **Weber, Gunther H. et al.**, (**2005a:65002**)
Likhanova, Y. V. *see* **Liseĭkin, V. D. et al.**, (**2005i:65006**)
Liseĭkin, V. D. On geometric and numerical analysis of grid properties. (English summary) (*see* **2005i:65006**)
— (*with* Kitaeva, I. A.; Likhanova, Y. V.) Numerical grid generation based on qualitative analysis of singularities. (English summary) (*see* **2005i:65006**)
— On the analysis of invariants of monitor metrics used in the control of difference grids. (Russian)
— On a universal elliptic method for constructing adaptive difference grids. (Russian. Russian summary) **2005m:65298**
Liu, Wen Bin[1] *see* **Li, Ruo et al.**, **2005b:65136**
Löhner, Rainald (*with* Oñate, Eugenio) A general advancing front technique for filling space with arbitrary objects. (English summary) **2005h:65239**
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McCormick, Stephen F. *see* **Lee, Barry et al.**, **2005e:65192**
Montenegro, Rafael Alejandro (*with* Montero García, Gustavo; Escobar, José María; Rodriguez Barrier, Eduardo Miguel; González-Yuste, José María) Results on 3-D adaptive finite element mesh generation. (*see* **2005m:00008**)
— (*with* Escobar, José María; Rodriguez Barrier, Eduardo Miguel; Montero García, Gustavo; González-Yuste, José María) Improved objective functions for tetrahedral mesh optimisation. (English summary) (*see* **2005c:00014**)
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— (*with* Joppich, Wolfgang) ★ Practical Fourier analysis for multigrid methods. **2005h:65247**
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— Convergence of V- and F-cycle multigrid methods for the biharmonic problem using the Hsieh-Clough-Tocher element. (English summary) **2005k:65278**
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— *see also* **Li, Chenliang et al.**, **2005h:65243**
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Bai, Yi La (*with* Liu, Bo[1]; Feng, En Min) Quasi multigrid preconditioned iteration method for a boundary value problem of an elliptic equation. (Chinese. English and Chinese summaries)
Barboteu, Mikaël Construction du préconditionneur Neumann-Neumann de décomposition de domaine de niveau 2 pour des problèmes élastodynamiques en grandes déformations. (English and French summaries) [Construction of the balancing domain decomposition preconditioner for elastodynamic finite deformation problems]
Bayada, Guy (*with* Sabil, J.; Sassi, Taoufik) A Neumann-Neumann domain decomposition algorithm for the Signorini problem. (English summary) **2005d:74024**
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— (*with* Chilton, Lawrence K.; Seshaiyer, Padmanabhan) Non-conforming computational methods for mixed elasticity problems. (English summary) **2005a:65125**
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Karakashian, Ohannes A. (*with* Pascal, Frédéric) A posteriori error estimates for a discontinuous Galerkin approximation of second-order elliptic problems. (English summary) **2005d:65192**
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Kim, Sang Dong (*with* Shin, Byeong Chun; Kim, Seokchan; Woo, Gyungsoo) Discrete minus one norm least-squares for the stress formulation of linear elasticity with numerical results. (English summary) **2005h:65212**
Kim, Seokchan *see* **Kim, Sang Dong et al., 2005h:65212**
Kumar, Harish *see* **Sekhar, T. V. S. et al., 2005i:76128**
Kuznetsov, Yurīĭ Alekseevich[1] Domain decomposition, fictitious domains, and distributed Lagrange multipliers. (English summary) (*see* **2005i:65006**)
Kwak, D. Y. V-cycle multigrid convergence for cell centered finite difference method, 3-D case. (*see* **2005f:65003**)
Lagnese, John E. (*with* Leugering, Günter) ★ Domain decomposition methods in optimal control of partial differential equations. **2005g:49002**
Lahaye, Domenico (*with* Vandewalle, Stefan; Hameyer, Kay) An algebraic multilevel preconditioner for field-circuit coupled problems. (English summary)
Lamichhane, Bishnu P. (*with* Wohlmuth, Barbara I.) Mortar finite elements for interface problems. (English summary) **2005g:65171**
Lee, Barry *see* **Cai, Zhiqiang et al., 2005i:65180**
Leem, K. H. (*with* Oliveira, Suely; Stewart, David E.) Algebraic multigrid (AMG) for saddle point systems from meshfree discretizations. (English summary) **2005g:65059**
Leugering, Günter *see* **Lagnese, John E., 2005g:49002**
Li, Dong Hui[1] *see* **Jiang, Ying-Jun et al., 2005b:90144**
Li, Jing-Rebecca *see* **Farhat, Charbel**
Li, Li-kang *see* **Bi, Chun-jia, 2005c:65095**
Li, Yiming (*with* Yu, Shao-Ming) A parallel adaptive finite volume method for nanoscale double-gate MOSFETs simulation. (English summary)
Liu, Bo[1] *see* **Bai, Yi La et al.**
Livne, O. E. (*with* Brandt, Achi) Local mode analysis of multicolor and composite relaxation schemes. (English summary) **2005d:65196**
Lui, S. H. *see* **Xu, Xue Jun et al., 2005i:65194**
Magoulès, Frédéric (*with* Roux, François-Xavier; Salmon, Stéphanie) Optimal discrete transmission conditions for a nonoverlapping domain decomposition method for the Helmholtz equation. (English summary) **2005c:76079**
Mair, Michael (*with* Wohlmuth, Barbara I.) A domain decomposition method for domains with holes using a complementary decomposition. (English summary) **2005f:74035**
Manteuffel, Thomas A. *see* **Heys, J. J. et al., 2005m:65247** *and* **De Sterck, H. et al., 2005m:65263**
McCormick, Stephen F. *see* **Heys, J. J. et al., 2005m:65247** *and* **De Sterck, H. et al., 2005m:65263**
Metz, Volker "Laplacians" on finitely ramified, graph directed fractals. (English summary) **2005i:31016**
Ming, Ping-bing *see* **E, Wei-nan et al., 2005k:65246**
Nedoma, Jiří (*with* Hlaváček, Ivan; Daněk, Josef; Vavřík, P.; Stehlík, J.; Denk, Frantisek) Some recent results on a domain decomposition method in biomechanics of human joints. (English summary) (*see* **2005g:65008**)
Oeltz, Daniel *see* **Griebel, Michael et al., 2005a:74036**
Oliveira, Suely *see* **Leem, K. H. et al., 2005g:65059**
Ol′shanskiĭ, M. A. (*with* Reusken, Arnold) Convergence analysis of a multigrid method for a convection-dominated model problem. (English summary) **2005j:65033**
Olson, Luke N. *see* **Heys, J. J. et al., 2005m:65247** *and* **De Sterck, H. et al., 2005m:65263**
Panasenko, Grigory The method of asymptotic partial decomposition of domain and partial homogenization. (English summary) **2005f:35028**
Park, Jungho A primal mixed domain decomposition procedure based on the nonconforming streamline diffusion method. (English summary) **2005f:65156**
Pascal, Frédéric *see* **Karakashian, Ohannes A., 2005d:65192**
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Schweitzer, Marc Alexander *see* **Griebel, Michael et al., 2005a:74036**
Sekhar, T. V. S. (*with* Sivakumar, R.; Kumar, Harish) Numerical study of the steady flow past a sphere in an aligned magnetic field. (English summary) **2005i:76128**
Seshaiyer, Padmanabhan *see* **Ben Belgacem, Faker et al., 2005a:65125**
Shin, Byeong Chun *see* **Kim, Sang Dong et al., 2005h:65212**
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Stefanica, Dan Parallel FETI algorithms for mortars. (English summary)
Stehlík, J. *see* **Nedoma, Jiřiet al., (2005g:65008)**
Steinbach, Olaf ★ Stability estimates for hybrid coupled domain decomposition methods. **2005a:65116**
Stephan, Ernst P. *see* **Tran, Thanh, 2005i:65198**
Stewart, David E. *see* **Leem, K. H. et al., 2005g:65059**
Suzuki, Atsushi (*with* Tabata, Masahisa) Finite element matrices in congruent subdomains and their effective use for large-scale computations. (English summary) **2005m:65283**
Szabó, Zsuzsanna On the multi-grid iteration for the eigenvalue problem and the degree of interpolation which it requires. I. (English summary)
Tabata, Masahisa *see* **Suzuki, Atsushi, 2005m:65283**
Tai, Xue-Cheng *see* **Badea, Lori et al., 2005a:65059**
Thomas, James L. *see* **Diskin, Boris, 2005a:76121**
Toselli, Andrea (*with* Widlund, Olof B.) ★ Domain decomposition methods—algorithms and theory. **2005g:65006**
Tran, Thanh (*with* Stephan, Ernst P.) An overlapping additive Schwarz preconditioner for boundary element approximations to the Laplace screen and Lamé crack problems. (English summary) **2005i:65198**
Tu, Xuemin (*with* Sarkis, Marcus V.) Singular function enhanced mortar finite element. (*see* **2005f:65003**)
Vandewalle, Stefan *see* **Lahaye, Domenico et al.**
Vasilevskiĭ, Yu. V. A parallel CG solver based on domain decomposition and non-smooth aggregation. **2005h:65056**
Vassilevski, Panayot S. *see* **Falgout, Robert D., 2005i:65047** *and* **Brown, Peter N. et al., 2005k:65234**
Vavřík, P. *see* **Nedoma, Jiřiet al., (2005g:65008)**
van der Vorst, Henk A. *see* **Genseberger, M. et al., (2005f:65003)**
Wan, W. L. (*with* Chan, Tony F. C.) A phase error analysis of multigrid methods for hyperbolic equations. (English summary) **2005g:65161**
Wang, Jun Ping[1] *see* **Badea, Lori et al., 2005a:65059**

Wang, Ke Ning *see* **Brenner, Susanne C. et al., 2005i:65178**
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Woo, Gyungsoo *see* **Kim, Sang Dong et al., 2005h:65212**
Woodward, Carol S. *see* **Brown, Peter N. et al., 2005k:65234**
Xu, Xue Jun (*with* Lui, S. H.; Rahman, Talal) A two-level additive Schwarz method for the Morley nonconforming element approximation of a nonlinear biharmonic equation. (English summary) **2005i:65194**
(Yates, Robert E.) *see* **Domain decomposition methods in science and engineering, 2005f:65003**
Yu, Shao-Ming *see* **Li, Yiming**
Yudin, M. N. (*with* Yudin, V. M.) On the decomposition of direct geo-electric problems, based on the Schwarz method. (Russian. Russian summary) **2005b:86041**
Yudin, V. M. *see* **Yudin, M. N., 2005b:86041**
Zeng, Jin-Ping *see* **Jiang, Ying-Jun et al., 2005b:90144**
Zhang, Ping Wen *see* **E, Wei-nan et al., 2005k:65246**
Zhao, Jie[3] *see* **Brenner, Susanne C. et al., 2005i:65178**
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Items listed otherwise than by author

Cocoyoc ★ Domain decomposition methods in science and engineering. **2005f:65003**
Domain decomposition methods in science and engineering ★ Domain decomposition methods in science and engineering. **2005f:65003**
Lecture Notes in Mathematics *see* **Steinbach, Olaf, 2005a:65116**

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Abgrall, Rémi Numerical discretization of boundary conditions for first order Hamilton-Jacobi equations. (English summary) **2005a:65152**
Aleĭnikov, I. A. (*with* Vlasova, E. V.) On the approximate solution of a boundary value problem for an inhomogeneous biharmonic equation. (Russian. English and Russian summaries) **2005h:65249**
Alves, Carlos J. S. (*with* Chen, Ching Shyang) A new method of fundamental solutions applied to nonhomogeneous elliptic problems. (English summary) **2005m:65305**
Atkinson, Kendall (*with* Han, Weimin) On the numerical solution of some semilinear elliptic problems. (English summary) **2005k:65279**
Au, C. K. A geometrical approach for solving 2D eikonal equation. (English summary)
Badea, Lori (*with* Daripa, Prabir) A domain embedding method using the optimal distributed control and a fast algorithm. (English summary) **2005f:65171**
Barrault, Maxime (*with* Maday, Yvon; Nguyen, Ngoc Cuong; Patera, Anthony T.) An 'empirical interpolation' method: application to efficient reduced-basis discretization of partial differential equations. (English and French summaries)
Basarab, M. O. (*with* Kravchenko, V. F.) Semi-analytic coordinate sequences for solving Dirichlet boundary value problems in domains of complex form. (Russian)
Benamou, Jean-David (*with* Collino, Francis; Runborg, Olof) Numerical microlocal analysis of harmonic wavefields. (English summary) **2005e:65202**
Biros, George *see* **Ying, Lexing et al., 2005d:65235**
Boĭkov, I. V. (*with* Moiko, N. V.) Approximate solution of Helmholtz equations. (English summary) (*see* **2005i:65006**)
Boyd, John Philip Fourier embedded domain methods: extending a function defined on an irregular region to a rectangle so that the extension is spatially periodic and C^∞. (English summary) **2005i:65210**
Bruno, Oscar P. *see* **McKay Hyde, E., 2005h:65253**
Burmistrov, A. V. Improvement of the Euler scheme for the solution of a stationary diffusion equation by extrapolation. (English summary) **2005h:65250**
Casteleiro, Manuel *see* **Colominas, Ignasi et al., (2005d:65006)**
Chelikowsky, James R. *see* **Lorin de la Grandmaison, Emmanuel et al., 2005k:65281**
Chen, Ching Shyang (*with* Muleshkov, A. S.; Golberg, M. A.; Mattheij, Robert M. M.) A mesh-free approach to solving the axisymmetric Poisson's equation. (English summary) **2005j:65169**
— *see also* **Alves, Carlos J. S., 2005m:65305**
Chen, Chuan Miao (*with* Xie, Zi-qing) Search extension method for multiple solutions of a nonlinear problem. (English summary) **2005d:65233**
Collino, Francis *see* **Benamou, Jean-David et al., 2005e:65202**
Colominas, Ignasi (*with* Cueto-Felgueroso, Luis; Mosqueira, Gonzalo; Navarrina, Fermín; Casteleiro, Manuel) A particle numerical approach based on the SPH method for computational fluid mechanics. (English summary) (*see* **2005d:65006**)
Cueto-Felgueroso, Luis *see* **Colominas, Ignasi et al., (2005d:65006)**
Cui, Jun Zhi *see* **He, Wen Ming, 2005d:65234**
Daripa, Prabir *see* **Badea, Lori, 2005f:65171**
Ding, Hang *see* **Liu, Gui-Rong et al.**
Duraiswami, Ramani *see* **Gumerov, N. A., 2005a:65154**
Efendiev, Yalchin R. (*with* Pankov, A. A.) Numerical homogenization of monotone elliptic operators. (English summary) **2005a:65153**
— (*with* Pankov, A. A.) Numerical homogenization and correctors for nonlinear elliptic equations. (English summary) **2005h:65251**
Engquist, Björn *see* **Tornberg, Anna-Karin, 2005e:65204**
Fairweather, Graeme (*with* Karageorghis, Andreas; Smyrlis, Yiorgos-Sokratis) A matrix decomposition MFS algorithm for axisymmetric biharmonic problems. (English summary) **2005m:65306**
Fam, G. S. A. (*with* Rashed, Y. F.) The method of fundamental solutions, a dipole formulation for potential problems. (English summary) (*see* **2005d:65006**)
Fulina, Silvia *see* **Sburlan, Cristina, 2005g:65186**
Gander, Martin J. (*with* Halpern, Laurence; Nataf, Frédéric) Optimal Schwarz waveform relaxation for the one dimensional wave equation. (English summary) **2005h:65252**
Gobet, Emmanuel (*with* Maire, Sylvain) A spectral Monte Carlo method for the Poisson equation. (English summary)
Golberg, M. A. *see* **Chen, Ching Shyang et al., 2005j:65169**
Gowda, Shivaraju B. *see* **Lorin de la Grandmaison, Emmanuel et al., 2005k:65281**
Guessous, Nagib (*with* Hadfat, Fouzia) Analytical nodal methods for diffusion equations. (English summary) **2005i:65211**
Gumerov, N. A. (*with* Duraiswami, Ramani) Recursions for the computation of multipole translation and rotation coefficients for the 3-D Helmholtz equation. (English summary) **2005a:65154**
Hadfat, Fouzia *see* **Guessous, Nagib, 2005i:65211**
Halpern, Laurence *see* **Gander, Martin J. et al., 2005h:65252**
Han, Weimin *see* **Atkinson, Kendall, 2005k:65279**
He, Wen Ming (*with* Cui, Jun Zhi) A highly efficient Monte Carlo method for a special kind of elliptic problem. (Chinese. English and Chinese summaries) **2005d:65234**
Helsing, Johan (*with* Wadbro, Eddie) Laplace's equation and the Dirichlet-Neumann map: a new mode for Mikhlin's method. (English summary) **2005m:65307**
Horák, Jiří Constrained mountain pass algorithm for the numerical solution of semilinear elliptic problems. (English summary) (*see* **2005j:65003**)
Huttunen, Tomi (*with* Kaipio, Jari P.; Monk, P. B.) The perfectly matched layer for the ultra weak variational formulation of the 3D Helmholtz equation. (English summary) **2005e:65203**
Hwang, Chi-Ok *see* **Mascagni, Michael et al., (2005b:65002)**
Jin, Bangti A meshless method for the Laplace and biharmonic equations subjected to noisy boundary data. (English summary)
Kaipio, Jari P. *see* **Huttunen, Tomi et al., 2005e:65203**
Karageorghis, Andreas *see* **Fairweather, Graeme et al., 2005m:65306**
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Khenner, M. Computation of the material indicator function near the contact line (in Tryggvason's method). (English summary)
Kim, Do Hyun Alternating linear shooting method for nonlinear partial differential equations. (English summary) **2005i:65212**
Knudsen, Kim M. (*with* Mueller, Jennifer L.; Siltanen, Samuli) Numerical solution method for the dbar-equation in the plane. (English summary) **2005g:65185**
Kravchenko, V. F. *see* **Basarab, M. O.**
Lesnic, Daniel *see* **Marin, Liviu, 2005i:65214**
Liu, Bo An *see* **Zhou, Xin[4] et al.**
Liu, Gui-Rong (*with* Wu, Yan Ling; Ding, Hang) Meshfree weak-strong (MWS) form method and its application to incompressible flow problems. (English summary)
López-Mobilia, Rafael (*with* Nash, Patrick L.) Discrete approximation of the radial contribution to the Schrödinger time evolution operator in three-dimensional Euclidean space. (English summary) **2005k:65280**
Lorin de la Grandmaison, Emmanuel (*with* Gowda, Shivaraju B.; Saad, Youcef; Tiago, Murilo L.; Chelikowsky, James R.) Efficient computation of the coupling matrix in time-dependent density functional theory. (English summary) **2005k:65281**
Lukinov, V. L. (*with* Mikhailov, Gennadii A.) Probabilistic representation and Monte Carlo methods for the first boundary value problem for a polyharmonic equation. (English summary) **2005i:65213**
Maday, Yvon *see* **Barrault, Maxime et al.**
Maire, Sylvain *see* **Gobet, Emmanuel**
Marin, Liviu (*with* Lesnic, Daniel) The method of fundamental solutions for the Cauchy problem associated with two-dimensional Helmholtz-type equations. (English summary) **2005i:65214**
Marin-Enriquez, Ivan *see* **Perez-Enriquez, Raul et al.**
Marín Flores, José Luis *see* **Perez-Enriquez, Raul et al.**
Mascagni, Michael (*with* Karaivanova, Aneta; Hwang, Chi-Ok) Quasi-Monte Carlo methods for elliptic BVPs. (English summary) (*see* **2005b:65002**)
Matos, José M. A. (*with* Rodrigues, Maria João; Vasconcelos, Paulo B.) New implementation of the tau method for PDEs. (English summary) **2005a:65155**
Mattheij, Robert M. M. *see* **Chen, Ching Shyang et al., 2005j:65169**
McKay Hyde, E. (*with* Bruno, Oscar P.) A fast, higher-order solver for scattering by penetrable bodies in three dimensions. (English summary) **2005h:65253**
Mikhailov, Gennadii A. *see* **Lukinov, V. L., 2005i:65213**
Moiko, N. V. *see* **Boĭkov, I. V., (2005i:65006)**
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Muleshkov, A. S. *see* **Chen, Ching Shyang et al., 2005j:65169**
Nakao, Mitsuhiro T. (*with* Watanabe, Yoshitaka) An efficient approach to the numerical verification for solutions of elliptic differential equations. (English summary) **2005i:65215**
Nash, Patrick L. *see* **López-Mobilia, Rafael, 2005k:65280**
Nataf, Frédéric *see* **Gander, Martin J. et al., 2005h:65252**
Navarrina, Fermín *see* **Colominas, Ignasi et al., (2005d:65006)**
Nguyen, Ngoc Cuong *see* **Barrault, Maxime et al.**
Oberai, Assad A. (*with* Wanderer, J.) A dynamic approach for evaluating parameters in a numerical method. (English summary) **2005i:65216**
Pankov, A. A. *see* **Efendiev, Yalchin R., 2005a:65153** *and* **2005h:65251**
Patera, Anthony T. *see* **Barrault, Maxime et al.**
Perez-Enriquez, Raul (*with* Marin-Enriquez, Ivan; Marín Flores, José Luis; Riera, R.) Chebyshev functions and their use for two-dimensional electrostatic problems in elliptic coordinates. (English summary)
Polyzos, D. *see* **Sellountos, E. J. et al.**
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Saad, Youcef *see* **Lorin de la Grandmaison, Emmanuel et al., 2005k:65281**
Sburlan, Cristina (*with* Fulina, Silvia) A numerical method for elliptic problems. (English summary) **2005g:65186**

Sellountos, E. J. (*with* Vavourakis, V.; Polyzos, D.) A new singular/hypersingular MLPG (LBIE) method for 2D elastostatics. (English summary)
Shi, Bing Xue *see* **Zhou, Xin[4] et al.**
Siltanen, Samuli *see* **Knudsen, Kim M. et al., 2005g:65185**
Smelov, V. V. On generalized solution of two-dimensional elliptic problem with piecewise constant coefficients based on splitting a differential operator and specific basis functions. (*see* **2005i:65006**)
Smyrlis, Yiorgos-Sokratis *see* **Fairweather, Graeme et al., 2005m:65306**
Sorokin, M. V. Solution of a mixed problem in the theory of elasticity by the Monte Carlo method. (Russian. Russian summary)
Takao, Yoshihiro *see* **Wang, Wen-Xue, 2005e:65205**
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Vavourakis, V. *see* **Sellountos, E. J. et al.**
Vlasov, V. I. A method for solving boundary value problems for the Laplace equation in domains with cones. (Russian)
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Ying, Lexing (*with* Biros, George; Zorin, Denis) A kernel-independent adaptive fast multipole algorithm in two and three dimensions. (English summary) **2005d:65235**
Zhou, Xin[4] (*with* Liu, Bo An; Shi, Bing Xue) Space compartment method for solving steady-state heat transfer problem with neural networks. (Chinese. English and Chinese summaries)
Zorin, Denis *see* **Ying, Lexing et al., 2005d:65235**

Items with secondary classifications in 65N99

Avital, E. J. A second look at the role of the fast Fourier transform as an elliptic solver. (English summary)
Axler, Sheldon (*with* Gorkin, Pamela; Voss, Karl) The Dirichlet problem on quadratic surfaces. (English summary) **2005g:31001**
Ben Abdallah, Naoufel *see* **Polizzi, E., 2005g:82131**
Biazar, J. (*with* Ebrahimi, Hamideh) An approximation to the solution of hyperbolic equations by Adomian decomposition method and comparison with characteristic method. (English summary)
Brannan, James R. (*with* Ervin, Vincent J.; Duan, Jin Qiao; Razoumov, Leonid) A Wiener-Hopf approximation technique for a multiple plate diffraction problem. (English summary) **2005d:35033**
Byström, Johan (*with* Dasht, Johan; Wall, Peter) A numerical study of the convergence in stochastic homogenization. (English summary) **2005g:74101**
Chowdhury, Indranil (*with* Jandhyala, Vikram) Single level multipole expansions and operators for potentials of the form $r^{-\lambda}$. (English summary) **2005j:70020**
Dang Duc Trong *see* **Matsuura, Tsutomu et al., 2005k:31009**
Dasht, Johan *see* **Byström, Johan et al., 2005g:74101**
Dimitroglo, M. G. (*with* Lifanov, Ivan K.; Setukha, A. V.) On numerical modelling of a three-dimensional flow past a wing with external flow suction and on the effect of flow suction on trailing vortices. (English summary) **2005b:76079**
Ding, Hang *see* **Shu, Chang[1] et al.**
Duan, Jin Qiao *see* **Brannan, James R. et al., 2005d:35033**
Ebrahimi, Hamideh *see* **Biazar, J.**
Egidi, Nadaniela (*with* Maponi, Pierluigi) A perturbative method for direct scattering problems. (English summary) **2005m:35208**
Ervin, Vincent J. *see* **Brannan, James R. et al., 2005d:35033**
Golyandina, N. Convergence rate for spherical processes with shifted centres. (English summary)
Gorkin, Pamela *see* **Axler, Sheldon et al., 2005g:31001**
Guidotti, Patrick A new first kind boundary integral formulation for the Dirichlet-to-Neumann map in 2D. (English summary) **2005a:35054**
Haslinger, Jaroslav (*with* Kozubek, Tomáš; Kunisch, Karl; Peichl, Gunther H.) Fictitious domain methods in shape optimization with applications in free-boundary problems. (English summary) **2005k:49115**
Hausdorf, Marcus (*with* Seiler, Werner M.) On the numerical analysis of overdetermined linear partial differential systems. (English summary) **2005a:35210**
Horák, Jiří Constrained mountain pass algorithm for the numerical solution of semilinear elliptic problems. (English summary) **2005i:35087**
Ignatieva, E. I. *see* **Sushkevich, T. A. et al., (2005i:65006)**
Ikehata, Masaru (*with* Siltanen, Samuli) Numerical solution of the Cauchy problem for the stationary Schrödinger equation using Faddeev's Green function. (English summary) **2005j:65059**
Jandhyala, Vikram *see* **Chowdhury, Indranil, 2005j:70020**
Karaivanova, Aneta (*with* Mascagni, Michael; Simonov, Nikolai A.) Parallel quasirandom walks on the boundary. (English summary)
— *see also* **Rasulov, Abdujabor et al.**
Kargin, A. V. A numerical-analytic method for solving the generalized Stokes problem. (Russian) (*see* **2005b:00029**)
Kozubek, Tomáš *see* **Haslinger, Jaroslav et al., 2005k:49115**
Kulikov, A. K. *see* **Sushkevich, T. A. et al., (2005i:65006)**
Kumar, Devendra Approximation of generalized axisymmetric potentials having fast growth. (English summary) **2005c:30039**
Kunisch, Karl *see* **Haslinger, Jaroslav et al., 2005k:49115**
Lai, Ming-Chih (*with* Liu, Hsi-Chi) Fast direct solver for the biharmonic equation on a disk and its application to incompressible flows. (English summary) **2005m:76135**
Latyshev, Anatoliĭ Vasil'evich (*with* Yushkanov, A. A.) A method for solving boundary value problem for kinetic equations. (Russian. Russian summary) **2005f:82100**
Leung, Shingyu *see* **Qian, Jianliang, 2005a:74053**
Levadoux, David P. (*with* Michielsen, Bastiaan L.) Nouvelles formulations intégrales pour les problèmes de diffraction d'ondes. (English and French summaries) [New integral formulations for wave diffraction problems] **2005b:35040**
Levykin, A. I. *see* **Sabelfeld, Karl K. et al.**
Lifanov, Ivan K. *see* **Dimitroglo, M. G. et al., 2005b:76079**
Liu, Hsi-Chi *see* **Lai, Ming-Chih, 2005m:76135**
Liu, JiJun Determination of Dirichlet-to-Neumann map for a mixed boundary problem. (English summary)
Maksakova, S. V. *see* **Sushkevich, T. A. et al., (2005i:65006)**
Maponi, Pierluigi *see* **Egidi, Nadaniela, 2005m:35208**
Mascagni, Michael *see* **Karaivanova, Aneta et al.** *and* **Rasulov, Abdujabor et al.**
Masserey, Alexandre (*with* Rappaz, Jacques; Rozsnyo, Roland; Swierkosz, Marek) Numerical integration of the three-dimensional Green kernel for an electromagnetic problem. (English summary) **2005m:78031**
Matsuura, Tsutomu (*with* Saitoh, Saburou; Dang Duc Trong) Numerical solutions of the Poisson equation. (English summary) **2005k:31009**
Michielsen, Bastiaan L. *see* **Levadoux, David P., 2005b:35040**
Minamoto, Teruya Numerical method with guaranteed accuracy of a double turning point for a radially symmetric solution of the perturbed Gelfand equation. (English summary) **2005h:65254**
Oñate, Eugenio Possibilities of finite calculus in computational mechanics. (English summary) **2005b:74120**
Pap, Margit Discrete approximation of the solution of the Dirichlet problem by discrete means. (English summary) **2005m:41043**
Peichl, Gunther H. *see* **Haslinger, Jaroslav et al., 2005k:49115**
Pimenta de Abreu, Marcos Mixed singular-regular boundary conditions in multislab radiation transport. (English summary) **2005c:85009**
Polizzi, E. (*with* Ben Abdallah, Naoufel) Subband decomposition approach for the simulation of quantum electron transport in nanostructures. (English summary) **2005g:82131**
Pownuk, Andrzej Numerical solutions of fuzzy partial differential equations and its applications in computational mechanics. (English summary) **2005g:74055**
Qian, Jianliang (*with* Leung, Shingyu) A level set based Eulerian method for paraxial multivalued traveltimes. (English summary) **2005a:74053**
Rappaz, Jacques *see* **Masserey, Alexandre et al., 2005m:78031**
Rasulov, Abdujabor (*with* Karaivanova, Aneta; Mascagni, Michael) Quasirandom sequences in branching random walks. (English summary)
Razoumov, Leonid *see* **Brannan, James R. et al., 2005d:35033**
Rozsnyo, Roland *see* **Masserey, Alexandre et al., 2005m:78031**
Sabelfeld, Karl K. (*with* Shalimova, I. A.) Decentered random walk on spheres for static elasticity problems. (English summary) (*see* **2005i:65006**)
— (*with* Shalimova, I. A.; Levykin, A. I.) Discrete random walk on large spherical grids generated by spherical means for PDEs. (English summary)
Saitoh, Saburou *see* **Matsuura, Tsutomu et al., 2005k:31009**
Sakamoto, Reiko Restricted energy inequalities and numerical approximations. **2005k:35088**
Seiler, Werner M. *see* **Hausdorf, Marcus, 2005a:35210**
Setukha, A. V. *see* **Dimitroglo, M. G. et al., 2005b:76079**
Shalimova, I. A. *see* **Sabelfeld, Karl K. et al., (2005i:65006)**
Shu, Chang[1] (*with* Ding, Hang; Yeo, K. S.) Computation of incompressible Navier-Stokes equations by local RBF-based differential quadrature method. (English summary)
Siltanen, Samuli *see* **Ikehata, Masaru, 2005j:65059**
Simonov, Nikolai A. *see* **Karaivanova, Aneta et al.**
Sorokin, M. V. Solution of the second boundary value problem by the Monte Carlo method in the case of an anisotropic medium. (Russian. Russian summary)
Strelkov, S. A. *see* **Sushkevich, T. A. et al., (2005i:65006)**
Sushkevich, T. A. (*with* Vladimirova, E. V.; Ignatieva, E. I.; Kulikov, A. K.; Maksakova, S. V.; Strelkov, S. A.) Influence functions method for numerical solution to boundary-value problems of transfer theory. (English summary) (*see* **2005i:65006**)
Swierkosz, Marek *see* **Masserey, Alexandre et al., 2005m:78031**
Tang, Li[1] (*with* Yang, Wen Sheng) Probabilistic methods for numerical solutions of exterior Dirichlet problems. (Chinese. English and Chinese summaries)
Vladimirova, E. V. *see* **Sushkevich, T. A. et al., (2005i:65006)**
Voss, Karl *see* **Axler, Sheldon et al., 2005g:31001**
Wall, Peter *see* **Byström, Johan et al., 2005g:74101**
Yang, Wen Sheng *see* **Tang, Li[1]**
Yeo, K. S. *see* **Shu, Chang[1] et al.**
Yushkanov, A. A. *see* **Latyshev, Anatoliĭ Vasil'evich, 2005f:82100**

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65P10 Hamiltonian systems including symplectic integrators

Amodio, Pierluigi (*with* Iavernaro, Felice; Trigiante, Donato) Symmetric schemes and Hamiltonian perturbations of linear Hamiltonian problems. (English summary) **2005m:65308**
Hairer, Ernst Geometric integration of ordinary differential equations on manifolds. (English summary) **2005d:65236**
Hong, Jialin (*with* Liu, Ying[2]) Multisymplecticity of the centred box scheme for a class of Hamiltonian PDEs and an application to quasi-periodically solitary waves. (English summary) **2005e:65206**
Huang, Lang Yang (*with* Zheng, Xiao Hong) Multi-symplectic Preissman scheme for solving the vibration equation of beams. (Chinese. English and Chinese summaries)
Iavernaro, Felice *see* **Amodio, Pierluigi et al., 2005m:65308**

Islas, A. L. (*with* Schober, C. M.) Backward error analysis for a multi-symplectic integrator. (*see* **2005b:00020**)
Liu, Ying[3] *see* **Hong, Jialin**, 2005e:65206
Ma, Jian Wei (*with* Yang, Hui Zhu) Multiresolution symplectic scheme for wave propagation in complex media. (Chinese. English and Chinese summaries) **2005f:65172**
— An exploration of multiresolution symplectic scheme for wave propagation using second-generation wavelets. (English summary) **2005k:65282**
Ma, Zhong Qi *see* **Sun, Jian Qiang et al.**
Orel, Bojan Extrapolated Magnus methods. (English summary) **2005d:65237**
Qin, Meng Zhao *see* **Wang, Yu Shun et al.**, 2005d:65238; 2005d:65239 *and* **Sun, Jian Qiang et al.**, 2005g:65187
Schober, C. M. *see* **Islas, A. L.**, (2005b:00020)
Simos, T. E. *see* **Tselios, Kostas**, 2005a:65156
Sun, Jian Qiang (*with* Qin, Meng Zhao) Multi-symplectic methods for the coupled 1D nonlinear Schrödinger system. (English summary) **2005g:65187**
— (*with* Ma, Zhong Qi; Qin, Meng Zhao) Explicit square conserving schemes of Landau-Lifshitz equation with Gilbert component. (Chinese. English and Chinese summaries)
Tang, Yi-Fa *see* **Xiao, Ai-Guo**, 2005g:65188
Trigiante, Donato *see* **Amodio, Pierluigi et al.**, 2005m:65308
Tselios, Kostas (*with* Simos, T. E.) Symplectic methods of fifth order for the numerical solution of the radial Schrödinger equation. (English summary) **2005a:65156**
Wang, Bin[1] *see* **Wang, Yu Shun et al.**, 2005d:65238; 2005d:65239 *and* **2005j:65170**
Wang, Yu Shun (*with* Wang, Bin[1]; Qin, Meng Zhao) Numerical implementation of the multisymplectic Preissman scheme and its equivalent schemes. (English summary) **2005d:65238**
— (*with* Wang, Bin[1]; Yang, Hong Wei; Wang, Yun Feng) An artificial boundary condition for the multisymplectic Preissman scheme. (English summary) **2005j:65170**
— (*with* Wang, Bin[1]; Qin, Meng Zhao) Concatenating construction of the multisymplectic schemes for 2 + 1-dimensional sine-Gordon equation. (English summary) **2005d:65239**
Wang, Yun Feng *see* **Wang, Yu Shun et al.**, 2005j:65170
Xiao, Ai-Guo (*with* Tang, Yi-Fa) Order properties of symplectic Runge-Kutta-Nyström methods. (English summary) **2005g:65188**
Yang, Hong Wei *see* **Wang, Yu Shun et al.**, 2005j:65170
Yang, Hui Zhu *see* **Ma, Jian Wei**, 2005f:65172
Zheng, Xiao Hong *see* **Huang, Lang Yang**

Items with secondary classifications in 65P10

Antohe, V. (*with* Gladwell, Ian) Performance of variable step size methods for solving model separable Hamiltonian systems. (English summary) **2005j:70002**
Arnold, Martin *see* **Pfeiffer, Andreas**, 2005k:37190
Arponen, Teijo (*with* Leimkuhler, B.) An efficient geometric integrator for thermostatted anti-/ferromagnetic models. (English summary) **2005h:65095**
Bai, Yong-Qiang *see* **Liu, Zhen[3] et al.**, 2005a:65135
Bálint, Attila *see* **Szenkovits, Ferenc et al.**, 2005h:70003
Burbanks, A. *see* **Waalkens, Holger et al.**, 2005b:37118
Cancès, Eric (*with* Castella, François; Chartier, Philippe; Faou, Erwan; Le Bris, Claude; Legoll, Frédéric; Turinici, Gabriel) Long-time averaging for integrable Hamiltonian dynamics. (English summary) **2005m:37138**
Cano, B. (*with* Durán Martín, Angel) A technique to improve the error propagation when integrating relative equilibria. (English summary) **2005e:70023**
Castella, François *see* **Cancès, Eric et al.**, 2005m:37138
Chartier, Philippe *see* **Cancès, Eric et al.**, 2005m:37138
Chekanov, N. A. *see* **Ukolov, Yu. A. et al.**, 2005j:70001
Chen, Jing-Bo Multisymplectic geometry, local conservation laws and Fourier pseudospectral discretization for the "good" Boussinesq equation. (English summary) **2005h:37144**
Chen, May-Ru (*with* Li, Ming-Chia) The limit sets of the Euler method with variable stepsizes. (English summary) **2005j:34078**
Cotter, Colin John (*with* Reich, Sebastian) Adiabatic invariance and applications: from molecular dynamics to numerical weather prediction. (English summary) **2005g:37119**
Crow, Mariesa *see* **Okunbor, Daniel et al.**
Csillik, Iharka *see* **Szenkovits, Ferenc et al.**, 2005h:70003
Dixon, Matthew F. (*with* Reich, Sebastian) Symplectic time-stepping for particle methods. (English summary)
Djoleto, Wilhelmina *see* **Okunbor, Daniel et al.**
Doedel, Eusebius *see* **Muñoz-Almaraz, F. J. et al.**, 2005a:37104
Dullin, Holger R. (*with* Fassò, Francesco) An algorithm for detecting directional quasi-convexity. (English summary) **2005h:37132**
Durán Martín, Angel *see* **Cano, B.**, 2005e:70023
Endres, L. *see* **Krysl, P.**, 2005m:70004
Faou, Erwan *see* **Cancès, Eric et al.**, 2005m:37138
Farkas, Gyula[2] On discretizations of invariant foliations over inertial manifolds. (English summary) **2005h:37188**
Fassò, Francesco *see* **Dullin, Holger R.**, 2005h:37132
Fetecau, R. C. (*with* Marsden, Jerrold E.; Ortiz, Michael; West, Matthew) Nonsmooth Lagrangian mechanics and variational collision integrators. (English summary) **2005e:37197**
Frank, Jason Geometric space-time integration of ferromagnetic materials. (English summary) **2005b:82084**
Freire Macías, Emilio *see* **Muñoz-Almaraz, F. J. et al.**, 2005a:37104
Galán-Vioque, J. *see* **Muñoz-Almaraz, F. J. et al.**, 2005a:37104
Gao, Feng[6] *see* **Wang, Ren Hong**
Gladwell, Ian *see* **Antohe, V.**, 2005j:70002
Gusev, Aleksandr A. *see* **Ukolov, Yu. A. et al.**, 2005j:70001
Hairer, Ernst Global modified Hamiltonian for constrained symplectic integrators. (English summary) **2005d:37169**
— (*with* Lubich, Christian) Symmetric multistep methods over long times. (English summary) **2005k:70001**
Iavernaro, Felice (*with* Mazzia, Francesca; Trigiante, Donato) Multistep methods for conservative problems. (English summary) **2005m:37202**
Islas, A. L. (*with* Schober, C. M.) On the preservation of phase space structure under multisymplectic discretization. (English summary) **2005b:37200**
Kahng, Byungik The invariant fractals of symplectic piecewise affine elliptic dynamics. (English summary) **2005j:37086**
Kamelander, G. *see* **Pohn, E. et al.**, 2005j:82076
Karasözen, Bülent Poisson integrators. (English summary) **2005j:37140**
Krysl, P. (*with* Endres, L.) Explicit Newmark/Verlet algorithm for time integration of the rotational dynamics of rigid bodies. (English summary) **2005m:70004**
Le Bris, Claude *see* **Cancès, Eric et al.**, 2005m:37138
Legoll, Frédéric *see* **Cancès, Eric et al.**, 2005m:37138
Leimkuhler, B. *see* **Arponen, Teijo**, 2005h:65095
Li, Ming-Chia *see* **Chen, May-Ru**, 2005j:34078
Li, Qi Sheng[2] *see* **Liu, Zhen[3] et al.**, 2005a:65135
Liu, Hong-yu (*with* Sun, Geng) Symplectic RK methods and symplectic PRK methods with real eigenvalues. (English summary) **2005d:37170**
Liu, Zhen[3] (*with* Bai, Yong-Qiang; Li, Qi Sheng[2]; Wu, Ke[1]) Symplectic and multisymplectic schemes with the simple finite element method. (English summary) **2005a:65135**
Lubich, Christian *see* **Hairer, Ernst**, 2005k:70001
Makó, Zoltán *see* **Szenkovits, Ferenc et al.**, 2005h:70003
Marsden, Jerrold E. *see* **Fetecau, R. C. et al.**, 2005e:37197
Mazzia, Francesca *see* **Iavernaro, Felice et al.**, 2005m:37202
McLachlan, Robert I. (*with* Perlmutter, Matthew; Quispel, G. Reinout W.) On the nonlinear stability of symplectic integrators. (English summary) **2005d:37171**
— (*with* Quispel, G. Reinout W.) Explicit geometric integration of polynomial vector fields. (English summary) **2005h:37203**
— (*with* Perlmutter, Matthew) Energy drift in reversible time integration. (English summary) **2005j:37141**
Minesaki, Yukitaka (*with* Nakamura, Yoshimasa) A conservative numerical integration algorithm for integrable Henon-Heiles system. (English summary)
Muñoz-Almaraz, F. J. (*with* Freire Macías, Emilio; Galán-Vioque, J.; Doedel, Eusebius; Vanderbauwhede, André) Continuation of periodic orbits in conservative and Hamiltonian systems. (English summary) **2005a:37104**
Nakamura, Yoshimasa *see* **Minesaki, Yukitaka**
Okunbor, Daniel (*with* Djoleto, Wilhelmina; Crow, Mariesa) Transient stability analysis using symplectic integrators. (English summary)
Ortiz, Michael *see* **Fetecau, R. C. et al.**, 2005e:37197
Palacios, Manuel Partitioned Runge-Kutta methods and redundant orbital problems. (Spanish. Spanish summary) **2005g:70026**
Perlmutter, Matthew *see* **McLachlan, Robert I. et al.**, 2005d:37171 *and* **2005j:37141**
Pfeiffer, Andreas (*with* Arnold, Martin) Numerical analysis of structure preserving Nyström methods for Hamiltonian systems. (English summary) **2005k:37190**
Pohn, E. (*with* Shoucri, M. M.; Kamelander, G.) Eulerian Vlasov codes. (English summary) **2005j:82076**
Postolache, Mihai *see* **Udrişte, Constantin**, 2005b:37202
Qin, Meng Zhao *see* **Sun, Ya-juan**, 2005b:37201 *and* **Su, Hong-Ling**, 2005f:37180
Quispel, G. Reinout W. *see* **McLachlan, Robert I. et al.**, 2005d:37171 *and* **2005h:37203**
Reich, Sebastian *see* **Cotter, Colin John**, 2005g:37119 *and* **Dixon, Matthew F.**
Rostovtsev, V. A. *see* **Ukolov, Yu. A. et al.**, 2005j:70001
Schober, C. M. *see* **Islas, A. L.**, 2005b:37200
Shoucri, M. M. *see* **Pohn, E. et al.**, 2005j:82076
Solak, Ercan On the security of a class of discrete-time chaotic cryptosystems. (English summary) **2005f:94122**
Su, Hong-Ling (*with* Qin, Meng Zhao) Symplectic schemes for Birkhoffian system. (English summary) **2005f:37180**
Sun, Geng *see* **Liu, Hong-yu**, 2005d:37170
Sun, Ya-juan (*with* Qin, Meng Zhao) A multi-symplectic scheme for RLW equation. (English summary) **2005b:37201**
Szenkovits, Ferenc (*with* Makó, Zoltán; Csillik, Iharka; Bálint, Attila) ★ Mechanikai rendszerek számítógépes modellezése. (Hungarian. English and Hungarian summaries) [Computer modelling of mechanical systems] **2005h:70003**
Tan, Xiaobo Almost symplectic Runge-Kutta schemes for Hamiltonian systems. (English summary) **2005i:37099**
Trigiante, Donato *see* **Iavernaro, Felice et al.**, 2005m:37202
Tupper, P. F. A test problem for molecular dynamics integrators. (English summary) **2005m:82149**
Turinici, Gabriel *see* **Cancès, Eric et al.**, 2005m:37138
Udrişte, Constantin (*with* Postolache, Mihai) Least squares problem and geometric dynamics. (English summary) **2005b:37202**
Ukolov, Yu. A. (*with* Chekanov, N. A.; Gusev, Aleksandr A.; Rostovtsev, V. A.; Vinitskiĭ, S. I.; Uwano, Yoshio) A REDUCE program for the normalization of polynomial Hamiltonians. (English summary) **2005j:70001**
Uwano, Yoshio *see* **Ukolov, Yu. A. et al.**, 2005j:70001
Vanderbauwhede, André *see* **Muñoz-Almaraz, F. J. et al.**, 2005a:37104
Vinitskiĭ, S. I. *see* **Ukolov, Yu. A. et al.**, 2005j:70001
Waalkens, Holger (*with* Burbanks, A.; Wiggins, Stephen) A computational procedure to detect a new type of high-dimensional chaotic saddle and its application to the 3D Hill's problem. (English summary) **2005b:37118**
Wang, Bin[1] *see* **Wang, Yu Shun et al.**, 2005h:65142
Wang, Jian A multi-symplectic method for the Dirac equation. (Chinese. English and Chinese summaries) **2005b:35279**
Wang, Ren Hong (*with* Gao, Feng[6]) A few symplectic difference schemes for linear Hamiltonian systems. (English and Chinese summaries)
Wang, Yu Shun (*with* Wang, Bin[1]; Yang, Hong Wei; Wang, Yun Feng) Multisymplectic five-point scheme for the nonlinear wave equation. (English summary) **2005h:65142**
Wang, Yun Feng *see* **Wang, Yu Shun et al.**, 2005h:65142
West, Matthew *see* **Fetecau, R. C. et al.**, 2005e:37197
Wiggins, Stephen *see* **Waalkens, Holger et al.**, 2005b:37118
Wu, Ke[1] *see* **Liu, Zhen[3] et al.**, 2005a:65135
Yang, Hong Wei *see* **Wang, Yu Shun et al.**, 2005h:65142

65P20 Numerical chaos

Ablowitz, Mark J. (*with* Schober, C. M.) Chaotic dynamics in nonlinear waves: computational and physical. (*see* **2005h:65004**)
Schober, C. M. *see* **Ablowitz, Mark J.**, (**2005h:65004**)

Items with secondary classifications in 65P20

Banerjee, Santo *see* **Saha, Papri et al., 2005f:94027**
Chang, Qian Shun *see* **Ma, Shuqing, 2005f:65135**
Cruz-Hernández, C. *see* **López-Mancilla, D., 2005m:37216**
Diakonos, Fotis K. *see* **Pingel, Detlef et al., 2005k:37193**
Hu, Han Ping[1] (*with* Liu, Shuang Hong; Wang, Zu Xi; Wu, Xiao Gang) A method for generating chaotic key stream. (Chinese. English and Chinese summaries) **2005b:94033**
Karniadakis, George Em *see* **Lucor, Didier, 2005j:37083**
Kouptsov, Konstantin L. Interval propagation method for finding trajectories of chaotic maps. (English summary) **2005b:37053**
Liu, Shuang Hong *see* **Hu, Han Ping[1] et al., 2005b:94033**
López-Mancilla, D. (*with* Cruz-Hernández, C.) Output synchronization of chaotic systems: model-matching approach with application to secure communication. (English summary) **2005m:37216**
Lucor, Didier (*with* Karniadakis, George Em) Adaptive generalized polynomial chaos for nonlinear random oscillators. (English summary) **2005j:37083**
Ma, Shuqing (*with* Chang, Qian Shun) Strange attractors on pseudospectral solutions for dissipative Zakharov equations. (English summary) **2005f:65135**
Pingel, Detlef (*with* Schmelcher, Peter; Diakonos, Fotis K.) Stability transformation: a tool to solve nonlinear problems. (English summary) **2005k:37193**
Roy Chowdhury, A. *see* **Saha, Papri et al., 2005f:94027**
Saha, Papri (*with* Banerjee, Santo; Roy Chowdhury, A.) Chaos, signal communication and parameter estimation. (English summary) **2005f:94027**
Schmelcher, Peter *see* **Pingel, Detlef et al., 2005k:37193**
Wang, Zu Xi *see* **Hu, Han Ping[1] et al., 2005b:94033**
Wu, Xiao Gang *see* **Hu, Han Ping[1] et al., 2005b:94033**

65P30 Bifurcation problems

Luzyanina, Tatyana (*with* Roose, Dirk) Equations with distributed delays: bifurcation analysis using computational tools for discrete delay equations. (English summary) **2005e:65207**
Minamoto, Teruya Numerical method with guaranteed accuracy of a double turning point for a radially symmetric solution of the perturbed Gelfand equation. (English summary) **2005h:65254**
Murashige, Sunao *see* **Tanaka, Ken'ichiro et al., 2005m:65309**
Oishi, Shin'ichi *see* **Tanaka, Ken'ichiro et al., 2005m:65309**
Roose, Dirk *see* **Luzyanina, Tatyana, 2005e:65207**
Tanaka, Ken'ichiro (*with* Murashige, Sunao; Oishi, Shin'ichi) On necessary and sufficient conditions for numerical verification of double turning points. (English summary) **2005m:65309**

Items with secondary classifications in 65P30

Beyn, Wolf-Jürgen (*with* Hüls, Thorsten) Error estimates for approximating non-hyperbolic heteroclinic orbits of maps. (English summary) **2005h:37048**
Burroughs, Elizabeth A. *see* **Salinger, Andrew G. et al., 2005k:37194**
Bychkov, Yu. A. (*with* Shcherbakov, S. V.) Algorithms for the investigation of bifurcation processes in deterministic nonlinear nonautonomous models of dynamical systems. (Russian. Russian summary) **2005h:93045**
Champneys, Alan R. *see* **Oldeman, Bart E. et al., 2005b:37203**
Derks, Gianne (*with* Gottwald, Georg A.) A robust numerical method to study oscillatory instability of gap solitary waves. (English summary) **2005m:37204**
Dhooge, Annick *see* **Doedel, Eusebius et al., 2005k:37191**
Diethelm, Kai (*with* Weilbeer, Marc) A numerical approach for Joulin's model of a point source initiated flame. (English summary) **2005b:80013**
Doedel, Eusebius (*with* Govaerts, Willy; Kuznetsov, Yuriĭ Aleksandrovich; Dhooge, Annick) Numerical continuation of branch points of equilibria and periodic orbits. (English summary) **2005k:37191**
England, J. P. (*with* Krauskopf, Bernd; Osinga, Hinke M.) Computing one-dimensional stable manifolds and stable sets of planar maps without the inverse. (English summary) **2005a:37161**
Forde, Jonathan (*with* Nelson, Patrick W.) Applications of Sturm sequences to bifurcation analysis of delay differential equation models. (English summary) **2005g:34184**
Geum, Young Hee (*with* Kim, Young Ik) Accurate computation of component centers in the degree-n bifurcation set. (English summary) **2005d:37090**
Gottwald, Georg A. *see* **Derks, Gianne, 2005m:37204**
Govaerts, Willy *see* **Doedel, Eusebius et al., 2005k:37191**
Guckenheimer, John (*with* Xiang, Yongjian) Defining equations for bifurcations and singularities. (English and Russian summaries) **2005g:58075**
Hu, Hai Yan *see* **Wang, Huailei**
Hüls, Thorsten *see* **Beyn, Wolf-Jürgen, 2005h:37048**
Kawanago, Tadashi Computer assisted proof to symmetry-breaking bifurcation phenomena in nonlinear vibration. (English summary) **2005a:47127**
— Corrigendum to: "A symmetry-breaking bifurcation theorem and some related theorems applicable to maps having unbounded derivatives" [Japan J. Indust. Appl. Math. **21** (2004), no. 1, 57–74; MR2033572 (2004m:47158)]. **2005k:47154**
Keller, H. B. RPM—a remedy for instability. (*see* **2005h:65004**)
Kevrekidis, Ioannis G. *see* **Möller, J. et al., 2005k:37192**
Kevrekidis, Panayotis G. *see* **Möller, J. et al., 2005k:37192**
Kim, Young Ik *see* **Geum, Young Hee, 2005d:37090**
Krauskopf, Bernd *see* **England, J. P. et al., 2005a:37161** *and* **Oldeman, Bart E. et al., 2005b:37203**
Kuznetsov, Yuriĭ Aleksandrovich *see* **Doedel, Eusebius et al., 2005k:37191**
Li, Kai Tai *see* **Wang, He Yuan et al., 2005d:37173**
Lin, Ping[1] (*with* O'Malley, Robert E., Jr.) The numerical solution of a challenging class of turning point problems. (English summary) **2005d:65102**
Lust, K. *see* **Möller, J. et al., 2005k:37192**
Möller, J. (*with* Runborg, Olof; Kevrekidis, Panayotis G.; Lust, K.; Kevrekidis, Ioannis G.) Equation-free, effective computation for discrete systems: a time stepper based approach. (English summary) **2005k:37192**
Nelson, Patrick W. *see* **Forde, Jonathan, 2005g:34184**
Oldeman, Bart E. (*with* Champneys, Alan R.; Krauskopf, Bernd) Homoclinic branch switching: a numerical implementation of Lin's method. (English summary) **2005b:37203**
O'Malley, Robert E., Jr. *see* **Lin, Ping[1], 2005d:65102**
Osinga, Hinke M. *see* **England, J. P. et al., 2005a:37161**
Pawlowski, R. P. *see* **Salinger, Andrew G. et al., 2005k:37194**
Pelinovsky, Dmitry E. (*with* Rothos, Vassilios M.) Bifurcations of travelling wave solutions in the discrete NLS equations. (English summary) **2005k:37172**
Phipps, E. T. *see* **Salinger, Andrew G. et al., 2005k:37194**
Romero, Louis A. *see* **Salinger, Andrew G. et al., 2005k:37194**
Rothos, Vassilios M. *see* **Pelinovsky, Dmitry E., 2005k:37172**
Runborg, Olof *see* **Möller, J. et al., 2005k:37192**
Salinger, Andrew G. (*with* Burroughs, Elizabeth A.; Pawlowski, R. P.; Phipps, E. T.; Romero, Louis A.) Bifurcation tracking algorithms and software for large scale applications. (English summary) **2005k:37194**
Shcherbakov, S. V. *see* **Bychkov, Yu. A., 2005h:93045**
Spence, Alastair Eigenvalue and parameter approximation at Hopf bifurcation. (*see* **2005h:65004**)
Wang, He Yuan (*with* Li, Kai Tai; Xu, Zhong Feng) Splitting iteration method of symmetry breaking bifurcation point. (Chinese. English and Chinese summaries) **2005d:37173**
Wang, Huailei (*with* Hu, Hai Yan) Bifurcation analysis of a delayed dynamic system via method of multiple scales and shooting technique. (English summary)
Weilbeer, Marc *see* **Diethelm, Kai, 2005b:80013**
Xiang, Yongjian *see* **Guckenheimer, John, 2005g:58075**
Xu, Zhong Feng *see* **Wang, He Yuan et al., 2005d:37173**
Zhang, Chun Rui (*with* Zheng, Bao Dong) Hopf bifurcation in numerical approximation of a n-dimension neural network model with multi-delays. (English summary) **2005k:34313**
Zheng, Bao Dong *see* **Zhang, Chun Rui, 2005k:34313**

65P40 Nonlinear stabilities

Măruşter, Ştefan On the expansion schemes in trajectory reversing method. (English summary) **2005e:65208**

Items with secondary classifications in 65P40

Beyn, Wolf-Jürgen *see* **Zou, Yongkui, 2005h:37051**
Bui, Q. V. Modified Newmark family for non-linear dynamic analysis. (English summary) **2005f:70002**
Chiş ăliţă, Adrian (*with* Lung, Nicolae) New methods for computing maximum Lyapunov exponent for chaotic systems. **2005g:37160**
Craioveanu, Mircea (*with* Moş, Ionel; Puta, Mircea; Voitecovici, Alexandru) The splitting midpoint integrators for the Maxwell-Bloch equations and the 3-dimensional Toda lattice dynamics. (English summary) **2005e:37196**
Dieci, Luca (*with* Rebaza, Jorge) Point-to-periodic and periodic-to-periodic connections. (English summary) **2005i:37100**
Du, Weihua (*with* Huang, Ming You) Dissipative schemes with property of inheriting homoclinic orbits for $2n$-dimensional Hamiltonian systems. (English summary) **2005j:37108**
Elaiw, A. M. Stabilization of sampled-data nonlinear systems by an l-step receding horizon control based on their approximate discrete-time models. (English summary) **2005h:93132**
García-Archilla, B. *see* **Sánchez Umbría, Juan Jose et al., 2005f:76032**
Huang, Ming You *see* **Du, Weihua, 2005j:37108**
Kornev, A. A. On an iterative method for constructing "Hadamard whiskers". (Russian. Russian summary) **2005k:37197**
Lung, Nicolae *see* **Chiş ăliţă, Adrian, 2005g:37160**
Moore, Gerald Laguerre approximation of stable manifolds with application to connecting orbits. (English summary) **2005f:37185**
Moş, Ionel *see* **Craioveanu, Mircea et al., 2005e:37196**
Net, M. *see* **Sánchez Umbría, Juan Jose et al., 2005f:76032**
Osinga, Hinke M. (*with* Rokni Lamooki, G. R.; Townley, Stuart) Numerical approximations of strong (un)stable manifolds. (English summary) **2005j:37151**
Peng, Ming Shu Symmetry breaking, bifurcations, periodicity and chaos in the Euler method for a class of delay differential equations. (English summary) **2005j:37152**
Puta, Mircea *see* **Craioveanu, Mircea et al., 2005e:37196**
Rebaza, Jorge *see* **Dieci, Luca, 2005i:37100**
Rokni Lamooki, G. R. *see* **Osinga, Hinke M. et al., 2005j:37151**
Sánchez Umbría, Juan Jose (*with* Net, M.; García-Archilla, B.; Simó, C.) Newton-Krylov continuation of periodic orbits for Navier-Stokes flows. (English summary) **2005f:76032**
Simó, C. *see* **Sánchez Umbría, Juan Jose et al., 2005f:76032**
Townley, Stuart *see* **Osinga, Hinke M. et al., 2005j:37151**
Viswanath, Divakar The fractal property of the Lorenz attractor. (English summary) **2005a:37057**
Voitecovici, Alexandru *see* **Craioveanu, Mircea et al., 2005e:37196**
Zou, Yongkui (*with* Beyn, Wolf-Jürgen) On the existence of transversal heteroclinic orbits in discretized dynamical systems. (English summary) **2005h:37051**

65P99 None of the above, but in this section

Bai, Zhao-jun (*with* Su, Yang Feng) Dimension reduction of large-scale second-order dynamical systems via a second-order Arnoldi method. (English summary) **2005m:65310**

Fatkullin, Ibrahim (*with* Vanden-Eijnden, Eric) A computational strategy for multiscale systems with applications to Lorenz 96 model. (English summary) **2005e:65209**
Ghanem, Roger G. *see* **Le Maître, Olivier P. et al., 2005b:65142**
Knio, Omar M. *see* **Le Maître, Olivier P. et al., 2005b:65142**
Le Maître, Olivier P. (*with* Najm, Habib N.; Ghanem, Roger G.; Knio, Omar M.) Multiresolution analysis of Wiener-type uncertainty propagation schemes. (English summary) **2005b:65142**
Najm, Habib N. *see* **Le Maître, Olivier P. et al., 2005b:65142**
Su, Yang Feng *see* **Bai, Zhao-jun, 2005m:65310**
Vanden-Eijnden, Eric *see* **Fatkullin, Ibrahim, 2005e:65209**

Items with secondary classifications in 65P99

Abe, Takashi *see* **Komatsu, Nobuyoshi, 2005g:82123**
Armano, Tiziana (*with* Cermelli, Paolo) Noncrystallographic motion of a dislocation as a fine mixture of rectilinear paths. (English summary) **2005j:74011**
Baldovin, Fulvio Numerical analysis of conservative maps: a possible foundation of nonextensive phenomena. (English summary) (*see* **2005g:82001**)
Basurto, M. (*with* Tebaldi, Claudio[1]) Characterization of time periodic behaviour by proper orthogonal decomposition. (English summary) (*see* **2005c:00016**)
Cermelli, Paolo *see* **Armano, Tiziana, 2005j:74011**
Chen, May-Ru (*with* Li, Ming-Chia) Stability of uniformly Morse-Smale gradient-like numerical methods for flows. (English summary) **2005g:37171**
Flashner, Henryk (*with* Golat, Michael) Expanded point mapping analysis of periodic systems. (English summary) (*see* **2005b:93006**)
Giné, Jaume (*with* Santallusia, Xavier) Implementation of a new algorithm of computation of the Poincaré-Liapunov constants. (English summary) **2005d:34061**
Golat, Michael *see* **Flashner, Henryk, (2005b:93006)**
Hayes, Wayne B. (*with* Jackson, Kenneth R.) Rigorous shadowing of numerical solutions of ordinary differential equations by containment. (English summary) **2005e:37045**
Jackson, Kenneth R. *see* **Hayes, Wayne B., 2005e:37045**
Komatsu, Nobuyoshi (*with* Abe, Takashi) Numerical irreversibility in time-reversible molecular dynamics simulation. (English summary) **2005g:82123**
de León, Manuel (*with* Martín de Diego, David; Santamaría-Merino, Aitor) Geometric numerical integration of nonholonomic systems and optimal control problems. (English summary) **2005k:49097**
Li, Ming-Chia Qualitative property between flows and numerical methods. (English summary) **2005g:37161**
— *see also* **Chen, May-Ru, 2005g:37171**
Martín de Diego, David *see* **de León, Manuel et al., 2005k:49097**
Müller, Stefan C. (*with* Ortiz, Michael) On the Γ-convergence of discrete dynamics and variational integrators. (English summary) **2005m:37203**
Ortiz, Michael *see* **Müller, Stefan C., 2005m:37203**
Santallusia, Xavier *see* **Giné, Jaume, 2005d:34061**
Santamaría-Merino, Aitor *see* **de León, Manuel et al., 2005k:49097**
Smaoui, Nejib A hybrid neural network model for the dynamics of the Kuramoto-Sivashinsky equation. (English summary) **2005g:37162**
Tebaldi, Claudio[1] *see* **Basurto, M., (2005c:00016)**

65Q05 Difference and functional equations, recurrence relations

Agarwal, Ravi P. (*with* O'Regan, Donal; Wong, Patricia J. Y.) Existence of constant-sign solutions to a system of difference equations: the semipositone and singular case. (English summary) **2005i:65217**
Angadi, Savita *see* **Vaidya, P. G., 2005g:65189**
Fedotov, E. M. Correctness of multicomponent two-layer nonlinear operator-difference schemes. (Russian. Russian summary) **2005d:65240**
Junk, Michael (*with* Yang, Zhao Xia) Asymptotic analysis of finite difference methods. (English summary) **2005f:65173**
O'Regan, Donal *see* **Agarwal, Ravi P. et al., 2005i:65217**
Vaidya, P. G. (*with* Angadi, Savita) A computational procedure to generate difference equations from differential equations. (English summary) **2005g:65189**
Wong, Patricia J. Y. *see* **Agarwal, Ravi P. et al., 2005i:65217**
Yang, Zhao Xia *see* **Junk, Michael, 2005f:65173**

Items with secondary classifications in 65Q05

Aguirre, Luis A. *see* **Letellier, Christophe et al., 2005f:39036**
Alaoui, Aziz *see* **Letellier, Christophe et al., 2005f:39036**
Apreutesei, Narcisa C. A finite difference scheme in Hilbert spaces. (English summary) **2005d:39080**
Ashyralyev, Allaberen (*with* Sobolevskii, Pavel E.) ★ New difference schemes for partial differential equations. **2005g:65003**
Baldovin, Fulvio Numerical analysis of conservative maps: a possible foundation of nonextensive phenomena. (English summary) (*see* **2005g:82001**)
Brandén, Henrik (*with* Sundqvist, Per) An algorithm for computing fundamental solutions of difference operators. (English summary) **2005h:65268**
Bruno, Oscar P. *see* **Geronimo, Jeffrey S. et al., 2005g:39010**
Casabán, M. C. (*with* Morera, J. L.; Rubio Navarro, Gregorio; Ossandón, G. A.) The stability of parametric difference linear systems. (English summary) **2005f:65112**
Dehghan, Mehdi (*with* Saadatmandi, A.) Bounds for solutions of a six-point partial-difference scheme. (English summary) **2005b:65092**
Duval, Anne Confluence q-différence vers différence pour un système fuchsien. (English summary) [Confluence of q-difference to difference for a Fuchsian system] **2005k:39023**
Elaydi, Saber N. *see* **Letellier, Christophe et al., 2005f:39036**
Engelborghs, Koen *see* **Green, Kirk et al., 2005d:37172**
Geronimo, Jeffrey S. (*with* Bruno, Oscar P.; Van Assche, Walter) WKB and turning point theory for second-order difference equations. (English summary) **2005g:39010**
Gibbs, W. R. A parallel/recursive algorithm. (English summary) **2005f:68163**
Green, Kirk (*with* Krauskopf, Bernd; Engelborghs, Koen) One-dimensional unstable eigenfunction and manifold computations in delay differential equations. (English summary) **2005d:37172**
He, Zhi Min (*with* Zhang, Xianming) Monotone iterative technique for first order impulsive difference equations with periodic boundary conditions. (English summary) **2005d:39005**
Jain, Lalit (*with* Tzermias, Pavlos) Beukers' integrals and Apéry's recurrences. (English summary) **2005h:11156**
Krauskopf, Bernd *see* **Green, Kirk et al., 2005d:37172**
Letellier, Christophe (*with* Elaydi, Saber N.; Aguirre, Luis A.; Alaoui, Aziz) Difference equations versus differential equations, a possible equivalence for the Rössler system? (English summary) **2005f:39036**
López Fenner, Julio Shadowing in extended hyperbolic difference equations. (English summary) **2005a:39035**
Morera, J. L. *see* **Casabán, M. C. et al., 2005f:65112**
Ossandón, G. A. *see* **Casabán, M. C. et al., 2005f:65112**
Pereira, Edgar (*with* Vitória, José) On difference matrix equations. (English summary) **2005e:39021**
Rodríguez, Miguel Angel[2] (*with* Winternitz, Pavel) Lie symmetries and exact solutions of first-order difference schemes. (English summary) **2005g:65103**
Rubio Navarro, Gregorio *see* **Casabán, M. C. et al., 2005f:65112**
Saadatmandi, A. *see* **Dehghan, Mehdi, 2005b:65092**
Shi, Bao *see* **Zeng, Xiaoyun et al., 2005i:39022**
Sobolevskii, Pavel E. *see* **Ashyralyev, Allaberen, 2005g:65003**
Sundqvist, Per *see* **Brandén, Henrik, 2005h:65268**
Tzermias, Pavlos *see* **Jain, Lalit, 2005h:11156**
Van Assche, Walter *see* **Geronimo, Jeffrey S. et al., 2005g:39010**
Vitória, José *see* **Pereira, Edgar, 2005e:39021**
Winternitz, Pavel *see* **Rodríguez, Miguel Angel[2], 2005g:65103**
Zeng, Xiaoyun (*with* Shi, Bao; Zhang, De Cun) Stability of solutions for the recursive sequence $x_{n+1} = (\alpha - \beta x_n)/(\gamma + g(x_{n-k}))$. (English summary) **2005i:39022**
Zhang, De Cun *see* **Zeng, Xiaoyun et al., 2005i:39022**
Zhang, Xianming *see* **He, Zhi Min, 2005d:39005**

65Rxx Integral equations, integral transforms

65R10 Integral transforms

Abate, Joseph *see* **Valkó, Peter P., 2005j:65172** *and* **2005k:65283**
Al-Shuaibi, Abdulaziz *see* **Iqbal, Mohammad[1], 2005d:65241**
Andersson, Fredrik (*with* Beylkin, Gregory) The fast Gauss transform with complex parameters. (English summary) **2005j:65171**
Bal, Guillaume (*with* Moireau, Philippe) Fast numerical inversion of the attenuated Radon transform with full and partial measurements. (English summary) **2005g:65190**
Beylkin, Gregory *see* **Andersson, Fredrik, 2005j:65171**
Bukhgeim, A. A. (*with* Kazantsev, S. G.) Numerical methods in tensor and emission tomography for divergent beam geometry. (English summary) (*see* **2005i:65006**)
— *see also* **Kazantsev, S. G., 2005f:65174**
Donoho, David L. (*with* Levi, Ofer) Fast X-ray and beamlet transforms for three-dimensional data. (English summary) **2005g:65191**
(Greengard, Leslie) *see* **Kobayashi, Kenta, 2005b:65143**
Iqbal, Mohammad[1] (*with* Al-Shuaibi, Abdulaziz) On comparison of operator theoretic and regularization methods for numerical inversion of Laplace transform. (English summary) **2005d:65241**
Katsevich, Alexander (*with* Lauritsch, Guenter) Filtered backprojection algorithms for spiral cone beam CT. (English summary) (*see* **2005h:94001**)
Kazantsev, S. G. (*with* Bukhgeim, A. A.) Singular value decomposition for the 2D fan-beam Radon transform of tensor fields. (English summary) **2005f:65174**
— *see also* **Bukhgeim, A. A., (2005i:65006)**
Kobayashi, Kenta A remark on the fast Gauss transform. Comment on: "A new version of the fast Gauss transform" [Doc. Math. **1998**, Extra Vol. III, 575–584 (electronic); MR1648189 (99i:65146)] by L. Greengard and X. Sun. (English summary) **2005b:65143**
Kryzhniy, V. V. On regularization method for numerical inversion of Laplace transforms. (English summary) **2005h:65255**
Lauritsch, Guenter *see* **Katsevich, Alexander, (2005h:94001)**
Lee, Jinwoo (*with* Sheen, Dongwoo) An accurate numerical inversion of Laplace transforms based on the location of their poles. (English summary) **2005h:65256**
Levi, Ofer *see* **Donoho, David L., 2005g:65191**
Lopez-Fernandez, Maria (*with* Palencia de Lara, C.) On the numerical inversion of the Laplace transform of certain holomorphic mappings. (English summary) **2005e:65210**
Lubich, Christian Convolution quadrature revisited. (English summary) **2005f:65175**
Moireau, Philippe *see* **Bal, Guillaume, 2005g:65190**
Palencia de Lara, C. *see* **Lopez-Fernandez, Maria, 2005e:65210**
Sheen, Dongwoo *see* **Lee, Jinwoo, 2005h:65256**
Suda, Reiji Stability analysis of the fast Legendre transform algorithm based on the fast multipole method. (English and Estonian summaries) **2005d:65242**
(Sun, Xiaobai) *see* **Kobayashi, Kenta, 2005b:65143**
Valkó, Peter P. (*with* Abate, Joseph) Comparison of sequence accelerators for the Gaver method of numerical Laplace transform inversion. (English summary) **2005k:65283**
— (*with* Abate, Joseph) Numerical inversion of 2-D Laplace transforms applied to fractional diffusion equations. (English summary) **2005j:65172**

Items with secondary classifications in 65R10

Aliev, Ilham A. *see* **Eryiğit, Melih, 2005k:42097**
Balandin, A. L. (*with* Ono, Y.) The method of series expansion for 3-D vector tomography reconstruction. (English summary) **2005g:44005**
Bruno, Oscar P. *see* **McKay Hyde, E., 2005h:65253**
Eryiğit, Melih (*with* Aliev, Ilham A.) A wavelet-type transform generated by the Poisson semigroup. (English summary) **2005k:42097**

Faridani, Adel Introduction to the mathematics of computed tomography. (English summary) **2005b:44001**
Fischer, Silva *see* **Hansen, Olaf et al., 2005e:65072**
Hansen, Olaf (*with* Fischer, Silva; Ramlau, Ronny) Regularization of Mellin-type inverse problems with an application to oil engineering. (English summary) **2005e:65072**
Izen, Steven H. (*with* Rohler, David P.; Kasibhatla, Sastry L. A.) Exploiting symmetry in fan beam CT: overcoming third generation undersampling. (English summary) **2005k:92032**
Kasibhatla, Sastry L. A. *see* **Izen, Steven H. et al., 2005k:92032**
Lyness, J. N. (*with* Monegato, Giovanni) Asymptotic expansions for two-dimensional hypersingular integrals. (English summary) **2005m:65042**
Maione, Guido Inverting fractional order transfer functions through Laguerre approximation. (English summary) **2005d:26010**
McKay Hyde, E. (*with* Bruno, Oscar P.) A fast, higher-order solver for scattering by penetrable bodies in three dimensions. (English summary) **2005h:65253**
Monegato, Giovanni *see* **Lyness, J. N., 2005m:65042**
Nieslony, Arthur *see* **Potts, Daniel et al., 2005f:65184**
Ono, Y. *see* **Balandin, A. L., 2005g:44005**
Petrella, G. An extension of the Euler Laplace transform inversion algorithm with applications in option pricing. (English summary) **2005f:44001**
Popović, Nikola (*with* Praetorius, Dirk) Applications of $\mathscr{H}$-matrix techniques in micromagnetics. (English summary) **2005m:78002**
Postnikov, E. B. About calculation of the Hankel transform using preliminary wavelet transform. **2005a:44006**
Potts, Daniel (*with* Steidl, Gabriele; Nieslony, Arthur) Fast convolution with radial kernels at nonequispaced knots. (English summary) **2005f:65184**
Praetorius, Dirk *see* **Popović, Nikola, 2005m:78002**
Ramlau, Ronny *see* **Hansen, Olaf et al., 2005e:65072**
Rieder, Andreas (*with* Schuster, Thomas) The approximate inverse in action. III. 3D-Doppler tomography. (English summary) **2005f:65076**
Rohler, David P. *see* **Izen, Steven H. et al., 2005k:92032**
Sakurai, Taka Numerical inversion for Laplace transforms of functions with discontinuities. (English summary) **2005a:60005**
Schuster, Thomas *see* **Rieder, Andreas, 2005f:65076**
Steidl, Gabriele *see* **Potts, Daniel et al., 2005f:65184**
Tagliani, Aldo (*with* Velásquez, Yurayh) Inverse Laplace transform for heavy-tailed distributions. (English summary) **2005d:60029**
Velásquez, Yurayh *see* **Tagliani, Aldo, 2005d:60029**
Wang, Jin Ping Singular value decomposition for generalized Radon transforms in $\mathbf{R}^n$. (Chinese. English and Chinese summaries) **2005e:44005**

65R20 Integral equations

Abdou, Mohamed A. (*with* Mohamed, Khamis I.; Ismail, A. S.) Toeplitz matrix and product Nystrom methods for solving the singular integral equation. (English summary) **2005h:65257**
Ackleh, Azmy S. (*with* Deng, Keng; Derouen, J.; Li, Wei[15]) A numerical method for a nonlocal hyperbolic model arising from a reliability system. (English summary) **2005c:65118**
Agachev, Yu. R. On the optimization of direct methods for solving ordinary integrodifferential equations. (Russian) **2005m:65311**
Aghazadeh, N. *see* **Maleknejad, K., 2005m:65313**
Ahues, Mario (*with* Largillier, Alain; Titaud, Olivier) Iterative refinement schemes for two families of numerical approximations of the radiative transfer equation. (English summary) (*see* **2005d:47001**)
d'Almeida, Filomena (*with* Titaud, Olivier; Vasconcelos, Paulo B.) A numerical study of iterative refinement schemes for weakly singular integral equations. (English summary) **2005k:65284**
Alnasr, Modi H. The P-stability of backward differentiation method for singularly perturbed Volterra integral equations with delay argument. (English summary) **2005d:65243**
Amer, Samir Mohamed (*with* Hassan, A. A. M.; Radwan, A. H.) On the modified Newton's method for the solution of a class of nonlinear singular integro-differential equations. (English summary) **2005i:65218**
Apartsin, A. S. (*with* Markova, E. V.) On numerical solution of multilinear Volterra equations of the first kind. (English summary) (*see* **2005i:65006**)
Asady, Babak (*with* Tavassoli Kajani, M.; Hadi Vencheh, A.; Heydari, A.) Solving second kind integral equations with hybrid Fourier and block-pulse functions. (English summary) **2005h:65258**
Atluri, Satya N. *see* **Qian, Zhongyan et al.**
Babolian, E. (*with* Davari, A.) Numerical implementation of Adomian decomposition method for linear Volterra integral equations of the second kind. (English summary) **2005k:65285**
Baker, Christopher T. H. *see* **Song, Yihong, 2005j:65173**
Baratella, Paola (*with* Palamara Orsi, Annamaria) A new approach to the numerical solution of weakly singular Volterra integral equations. (English summary) **2005a:65157**
Beale, J. Thomas A grid-based boundary integral method for elliptic problems in three dimensions. (English summary) **2005h:65259**
Blatov, I. A. On estimates of the inverse matrices elements for the Galerkin method for singular integral equations based on the spline wavelets. (English summary) (*see* **2005i:65006**)
Boĭkov, I. V. (*with* Tynda, A. N.) Methods of optimal accuracy for approximate solution of second-kind weakly singular Volterra integral equations for multiprocessor computers. (English summary) (*see* **2005i:65006**)
— (*with* Tynda, A. N.) Approximate methods, optimal with respect to accuracy, for solving Volterra integral equations. (Russian. Russian summary) **2005h:65260**
Börm, Steffen $\mathscr{H}^2$-matrices—multilevel methods for the approximation of integral operators. (English summary)
Brunner, Hermann (*with* Pedas, Arvet; Vaĭnikko, G. M.) A spline collocation method for linear Volterra integro-differential equations with weakly singular kernels. (English summary) **2005g:65192**
— (*with* Messina, Eleonora) Time-stepping methods for Volterra-Fredholm integral equations. (English summary) **2005b:65144**
— The discretization of Volterra functional integral equations with proportional delays. (English summary) **2005i:65219**
— Discretization of Volterra integral equations with weakly singular kernels. (*see* **2005c:39001**)
Bruno, Oscar P. (*with* McKay Hyde, E.) An efficient, preconditioned, high-order solver for scattering by two-dimensional inhomogeneous media. (English summary) **2005e:65211**
Caliò, F. (*with* Marchetti, E.; Pavani, R.; Micula, Gheorghe) About some Volterra problems solved by a particular spline collocation. (English summary) **2005i:65220**
Capobianco, Giovanni (*with* Crisci, Maria Rosaria; Russo, Elvira) Nonstationary waveform relaxation methods for Abel integral equations. (English summary) **2005f:65176**
Carstensen, Carsten (*with* Maischak, Matthias; Praetorius, Dirk; Stephan, Ernst P.) Residual-based a posteriori error estimate for hypersingular equation on surfaces. (English summary) **2005c:65119**
Chan, Kai-Yuen (*with* Tang, Tao; Teng, Zhen-huan) A fast numerical method for integral equations of the first kind with logarithmic kernel using mesh grading. (English summary) **2005d:65244**
Chapko, Roman On the numerical solution of a boundary value problem in the plane elasticity for a double-connected domain. (English summary) **2005e:65212**
Cheng, Jin[2] (*with* Hon, Yiu-Chung; Wang, Yan Bo[1]) A numerical method for the discontinuous solutions of Abel integral equations. (English summary) **2005e:65213**
Crisci, Maria Rosaria *see* **Capobianco, Giovanni et al., 2005f:65176**
Cvetković, Aleksandar S. (*with* De Bonis, M. C.) Projection methods for Cauchy singular integral equations on the bounded intervals. (English summary) **2005k:65286**
Dagnino, Catterina (*with* Demichelis, V.; Santi, Elisabetta) A nodal spline collocation method for weakly singular Volterra integral equations. (English summary) **2005i:65221**
Darve, Eric (*with* Havé, Pascal) Efficient fast multipole method for low-frequency scattering. (English summary) **2005d:65245**
Davari, A. *see* **Babolian, E., 2005k:65285**
Davies, Penny J. (*with* Duncan, Dugald B.) Stability and convergence of collocation schemes for retarded potential integral equations. (English summary) **2005k:65287**
— *see also* **Duncan, Dugald B., (2005b:00020)**
De Bonis, M. C. (*with* Frammartino, C.; Mastroianni, Giuseppe) Numerical methods for some special Fredholm integral equations on the real line. (English summary) **2005c:65120**
— *see also* **Cvetković, Aleksandar S., 2005k:65286**
Deeba, Elias (*with* Xie, Shishen) Numerical approximation for integral equations. (English summary) **2005b:65145**
Demichelis, V. *see* **Dagnino, Catterina et al., 2005i:65221**
Deng, Keng *see* **Ackleh, Azmy S. et al., 2005c:65118**
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Mirzaee, F. *see* **Maleknejad, K. et al., 2005g:42083**
Monegato, Giovanni *see* **Mastroianni, Giuseppe, 2005b:65022**
Nikolaeva, Natalia N. (*with* Rychagov, M. N.; Titarenko, V. N.; Yagola, A. G.) Error estimation for the reconstruction of symmetric velocity profiles in multipath measurement modules. (Russian. Russian summary) **2005b:76053**
Pan, Bao Zhen (*with* Gu, Chuan Qing) Algebraic properties and a convergence theorem for function-valued Padé-type approximation used for solutions of integral equations. (Chinese. English and Chinese summaries)
Parts, Inga *see* **Kangro, Raul, 2005f:45013**
Pavani, R. *see* **Caliò, F. et al., 2005d:65125**
Pedas, Arvet Piecewise polynomial approximations for linear Volterra integro-differential equations with nonsmooth kernels. (English summary) **2005m:45011**
Pettitt, B. Montgomery *see* **Kelley, Carl T., 2005b:82085**
Pinnau, René *see* **Seaïd, Mohammed et al., 2005d:65178**
Praetorius, Dirk *see* **Carstensen, Carsten, 2005a:65142**
Razzaghi, Mohsen *see* **Shamsi, M., 2005a:78033**
Rychagov, M. N. *see* **Nikolaeva, Natalia N. et al., 2005b:76053**
Santi, Elisabetta *see* **Dagnino, Catterina et al., 2005d:41011**
Schneider, Reinhold *see* **Harbrecht, Helmut, (2005d:00012)**
Seaïd, Mohammed (*with* Frank, Martin[2]; Klar, Axel; Pinnau, René; Thömmes, Guido) Efficient numerical methods for radiation in gas turbines. (English summary) **2005d:65178**
Selgas, Virginia *see* **Meddahi, Salim et al., 2005b:65129**
Shamsi, M. (*with* Razzaghi, Mohsen) Efficient numerical techniques for solving Pocklington's integral equation using multiwavelets. (English summary) **2005a:78033**
Slodička, Marián An approximation scheme for a nonlinear degenerate parabolic equation with a second-order differential Volterra operator. (English summary)
Stefani, Frank *see* **Xu, Mingtian et al., 2005k:85008**
Stephan, Ernst P. *see* **Tran, Thanh, 2005i:65198**
Strakhov, V. N. On a generalization of the method of linear integral equations, which is of principal importance in gravimetry and magnetometry. Derivation of the basic relations of the method of linear integral representations. (Russian) **2005i:86003**
— On a generalization of the method of linear integral equations, which is of principal importance in gravimetry and magnetometry. Determination of high-accuracy approximations of solutions of a set of systems of linear algebraic equations with exact data in the right-hand sides. (Russian)
Tarang, Mare ★ Stability of the spline collocation method for Volterra integro-differential equations. **2005e:65003**
Thömmes, Guido *see* **Seaïd, Mohammed et al., 2005d:65178**
Titarenko, V. N. *see* **Nikolaeva, Natalia N. et al., 2005b:76053**
Tran, Thanh (*with* Stephan, Ernst P.) An overlapping additive Schwarz preconditioner

for boundary element approximations to the Laplace screen and Lamé crack problems. (English summary) **2005i:65198**
Tvalodze, Yu. *see* **Zhuzhunashvili, A., 2005e:65082**
Wu, Lixin[2] *see* **Dai, Min[2] et al., 2005e:91072**
Xu, Mingtian (*with* Stefani, Frank; Gerbeth, Gunter) Integral equation approach to time-dependent kinematic dynamos in finite domains. (English summary) **2005k:85008**
Yagola, A. G. *see* **Nikolaeva, Natalia N. et al., 2005b:76053**
Zhao, Zhi Gao (*with* Huang, Qi Bai) Calculation of singular integral for the Helmholtz boundary integral equation in acoustics. (Chinese. English and Chinese summaries)
Zhuzhunashvili, A. (*with* Tvalodze, Yu.) On numerical method for some singular minimization problems. (English and Georgian summaries) **2005e:65082**
Ziogas, Andrew *see* **Chiarella, Carl, 2005j:91038**
Zokayi, A. R. (*with* Hadizadeh, M.) On the Volterra-Hammerstein integral equations of mixed type with exponential nonlinearity. (English summary) **2005f:45011**

65R30 Improperly posed problems

Abubakar, Aria (*with* van den Berg, Peter M.; Habashy, Tarek M.; Braunisch, Henning) A multiplicative regularization approach for deblurring problems. (English summary) **2005g:65196**
van den Berg, Peter M. *see* **Abubakar, Aria et al., 2005g:65196**
Bertram, B. S. *see* **Hilgers, J. W., 2005k:65298**
Börm, Steffen (*with* Löhndorf, Maike; Melenk, Jens M.) Approximation of integral operators by variable-order interpolation. (English summary) **2005j:65176**
Braunisch, Henning *see* **Abubakar, Aria et al., 2005g:65196**
Carasso, Alfred S. Singular integrals, image smoothness, and the recovery of texture in image deblurring. (English summary) **2005h:65265**
Gorohova, O. M. *see* **Nazarenko, M. O., 2005f:65183**
Habashy, Tarek M. *see* **Abubakar, Aria et al., 2005g:65196**
Hilgers, J. W. (*with* Bertram, B. S.) Comparing different types of approximators for choosing the parameters in the regularization of ill-posed problems. (English summary) **2005k:65298**
Li, Gong Sheng (*with* Ma, Yi Chen) Numerical analysis on solving Symm's integral equation with a modified Tikhonov regularization algorithm. (Chinese. English and Chinese summaries) **2005i:65228**
Löhndorf, Maike *see* **Börm, Steffen et al., 2005j:65176**
Ma, Yi Chen *see* **Li, Gong Sheng, 2005i:65228**
Melenk, Jens M. *see* **Börm, Steffen et al., 2005j:65176**
Nazarenko, M. O. (*with* Gorohova, O. M.) On spline-recovery of M_N-weak solutions of integral Fredholm equation of first kind by incomplete discrete information. (English summary) **2005f:65183**
Ramm, Alexander G. (*with* Smirnova, Alexandra B.) On deconvolution problems: numerical aspects. (English summary) **2005h:65266**
Smirnova, Alexandra B. *see* **Ramm, Alexander G., 2005h:65266**
Zasyad'ko, A. A. Comparing the Tikhonov method and the multicriterial optimization method for the solution of the signal restoration problem. (Russian. English, Russian and Ukrainian summaries) **2005k:65299**

Items with secondary classifications in 65R30

Al-Shuaibi, Abdulaziz *see* **Iqbal, Mohammad[1], 2005d:65241**
Cai, Hai Tao A basic theorem for ill-posed problems. I. (Chinese. English and Chinese summaries)
Cheng, Jin[2] (*with* Hon, Yiu-Chung; Wang, Yan Bo[1]) A numerical method for the discontinuous solutions of Abel integral equations. (English summary) **2005e:65213**
Daubechies, Ingrid (*with* Defrise, Michel; De Mol, Christine) An iterative thresholding algorithm for linear inverse problems with a sparsity constraint. (English summary) **2005k:65106**
Defrise, Michel *see* **Daubechies, Ingrid et al., 2005k:65106**
De Mol, Christine *see* **Daubechies, Ingrid et al., 2005k:65106**
Dmitriev, Vladimir Ivanovich (*with* Ingtem, Zh.) Solving integral equation of the first kind by spline approximation. (English summary) **2005f:45003**
Fischer, Silva *see* **Hansen, Olaf et al., 2005e:65072**
Hansen, Olaf (*with* Fischer, Silva; Ramlau, Ronny) Regularization of Mellin-type inverse problems with an application to oil engineering. (English summary) **2005e:65072**
Hon, Yiu-Chung *see* **Cheng, Jin[2] et al., 2005e:65213**
Hosoda, Y. *see* **Kitagawa, Takashi et al., 2005d:65063**
Ingtem, Zh. *see* **Dmitriev, Vladimir Ivanovich, 2005f:45003**
Iqbal, Mohammad[1] (*with* Al-Shuaibi, Abdulaziz) On comparison of operator theoretic and regularization methods for numerical inversion of Laplace transform. (English summary) **2005d:65241**
Kitagawa, Takashi (*with* Nakata, Susumu; Hosoda, Y.) Regularization using QR factorization and the estimation of the optimal parameter. (English summary) **2005d:65063**
Li, Lei[2] (*with* Speed, Terence P.) Deconvolution of sparse positive spikes. (English summary)
Nakata, Susumu *see* **Kitagawa, Takashi et al., 2005d:65063**
Nicoreştianu, Felicia Eugenia A numerical method for super-resolution in confocal scanning microscopy. (English and Romanian summaries)
Ramlau, Ronny *see* **Hansen, Olaf et al., 2005e:65072**
Smirnov, G. V. Adsorption integral equation. (English summary) **2005k:45005**
Speed, Terence P. *see* **Li, Lei[2]**
Wang, Yan Bo[1] *see* **Cheng, Jin[2] et al., 2005e:65213**
Zhilyakov, E. G. On the computation of approximate solutions of Fredholm integral equations of the first kind using empirical data. (Russian. Russian summary) **2005m:65317**

65R32 Inverse problems

Das, P. C. *see* **Sastry, Challa S., 2005m:65318**
Derevtsov, E. Yu. (*with* Louis, A. K.; Schuster, Thomas) Two approaches to the problem of defect correction in vector field tomography solving boundary value problems. (English summary) **2005j:65177**
Likhachëv, A. V. (*with* Pikalov, V. V.) Influence of approximation of 3D tomography integral equation on inversion accuracy. (English summary) (*see* **2005i:65006**)
Louis, A. K. *see* **Derevtsov, E. Yu. et al., 2005j:65177**
Pikalov, V. V. *see* **Likhachëv, A. V., (2005i:65006)**
Sastry, Challa S. (*with* Das, P. C.) A convolution back projection algorithm for local tomography. (English summary) **2005m:65318**
Schuster, Thomas *see* **Derevtsov, E. Yu. et al., 2005j:65177**

Items with secondary classifications in 65R32

Chambolle, Antonin An algorithm for total variation minimization and applications. (English summary) **2005m:49058**
Dmitriev, Vladimir Ivanovich Multidimensional inverse problems of magnetotelluric sounding. (Russian. Russian summary) **2005a:78019**
Khan, Taufiquar Rahman (*with* Smirnova, Alexandra B.) 1D inverse problem in diffusion based optical tomography using iteratively regularized Gauss-Newton algorithm. (English summary) **2005h:35363**
Ling, Yi[1] *see* **Liu, Fengshan et al., 2005c:42038**
Liu, Fengshan (*with* Ling, Yi[1]; Xia, Xiang-Gen; Shi, Xi Quan[2]) Wavelet methods for ground penetrating radar imaging. (English summary) **2005c:42038**
Shi, Xi Quan[2] *see* **Liu, Fengshan et al., 2005c:42038**
Smirnova, Alexandra B. *see* **Khan, Taufiquar Rahman, 2005h:35363**
Xia, Xiang-Gen *see* **Liu, Fengshan et al., 2005c:42038**

65R99 None of the above, but in this section

Abbasbandy, S. *see* **Babolian, E. et al., 2005i:65229**
Babolian, E. (*with* Sadeghi Goghary, H.; Abbasbandy, S.) Numerical solution of linear Fredholm fuzzy integral equations of the second kind by Adomian method. (English summary) **2005i:65229**
Breitzman, Anthony F. *see* **Johnson, Jeremy R., 2005e:65220**
Diethelm, Kai (*with* Ford, Neville J.; Freed, Alan D.; Luchko, Yu.) Algorithms for the fractional calculus: a selection of numerical methods. (English summary) **2005g:65197**
Ford, Neville J. *see* **Diethelm, Kai et al., 2005g:65197**
Freed, Alan D. *see* **Diethelm, Kai et al., 2005g:65197**
Johnson, Jeremy R. (*with* Breitzman, Anthony F.) Automatic derivation and implementation of fast convolution algorithms. (English summary) **2005e:65220**
Luchko, Yu. *see* **Diethelm, Kai et al., 2005g:65197**
Sadeghi Goghary, H. *see* **Babolian, E. et al., 2005i:65229**

Items with secondary classifications in 65R99

Gajek, Lesław On the deficit distribution when ruin occurs—discrete time model. (English summary) **2005k:91183**

65S05 Graphical methods

Bradbury, Emma L. (*with* Enright, Wayne H.) Fast contouring of solutions to partial differential equations. (English summary) **2005b:65153**
Enright, Wayne H. *see* **Bradbury, Emma L., 2005b:65153**
Mihoc, Maria On the nomographic functions of four variables. (English summary) **2005d:65248**

Items with secondary classifications in 65S05

Chen, Cha'o-Kuang *see* **Wu, Tzong-Mou, 2005c:70004**
Wu, Tzong-Mou (*with* Chen, Cha'o-Kuang) Kinematics representations of graphical operation methods. (English summary) **2005c:70004**

65Txx Numerical methods in Fourier analysis

65T40 Trigonometric approximation and interpolation

De Pierro, Alvaro R. *see* **Wei, Mu Sheng et al., 2005f:65185**
Grishin, Denis (*with* Strohmer, Thomas) Fast scattered data approximation with Neumann and other boundary conditions. (English summary) **2005e:65221**
Nieslony, Arthur *see* **Potts, Daniel et al., 2005f:65184**
Potts, Daniel (*with* Steidl, Gabriele; Nieslony, Arthur) Fast convolution with radial kernels at nonequispaced knots. (English summary) **2005f:65184**
Sarvas, Jukka Performing interpolation and anterpolation entirely by fast Fourier transform in the 3-D multilevel fast multipole algorithm. (English summary) **2005d:65249**
Steidl, Gabriele *see* **Potts, Daniel et al., 2005f:65184**
Strohmer, Thomas *see* **Grishin, Denis, 2005e:65221**
Wei, Mu Sheng (*with* De Pierro, Alvaro R.; Yin, Jiahong) Error estimates for two filters based on polynomial interpolation for recovering a function from its Fourier coefficients. (English summary) **2005f:65185**
Yin, Jiahong *see* **Wei, Mu Sheng et al., 2005f:65185**

Items with secondary classifications in 65T40

Cools, Ronald (*with* Govaert, Hilde) Five- and six-dimensional lattice rules generated by structured matrices. (English summary) **2005a:65021**
Govaert, Hilde *see* **Cools, Ronald, 2005a:65021**
Healy, Dennis M., Jr. (*with* Rockmore, Daniel N.; Kostelec, P. J.; Moore, Sean S. B.) FFTs for the 2-sphere-improvements and variations. (English summary) **2005d:43014**
Kostelec, P. J. *see* **Healy, Dennis M., Jr. et al., 2005d:43014**
Moore, Sean S. B. *see* **Healy, Dennis M., Jr. et al., 2005d:43014**
Nkemzi, Boniface On solution of Lamé equations in axisymmetric domains with conical points. (English summary) **2005g:35286**
Rockmore, Daniel N. *see* **Healy, Dennis M., Jr. et al., 2005d:43014**

65T50 Discrete and fast Fourier transforms

Ahmad, M. Omair *see* **Bouguezel, Saad et al., 2005h:65267**
Bhamidipati, Veerabhadra S. *see* **Grigoryan, Artyom M., 2005h:65271**
Bouguezel, Saad (*with* Ahmad, M. Omair; Swamy, M. N. S.) A new radix-2/8 FFT algorithm for length-$q \times 2^m$ DFTs. (English summary) **2005h:65267**
Brandén, Henrik (*with* Sundqvist, Per) An algorithm for computing fundamental solutions of difference operators. (English summary) **2005h:65268**
Bultheel, Adhemar (*with* Martínez Sulbaran, Héctor E.) Computation of the fractional Fourier transform. (English summary) **2005d:65250**
Burbano, Daniel *see* **Seguel, Jaime**, (**2005g:00014**)
Cao, Jihua (*with* Wang, Zhaohua; Li, Fengting) DC coefficients recovery-based error concealment technique for MPEG-2 video streams. (English summary) (*see* **2005i:42002**)
Chen, Che-Hong (*with* Liu, Bin-Da; Yang, Jar-Ferr) Direct recursive structures for computing radix-r two-dimensional DCT/IDCT/DST/IDST. (English summary) **2005h:65269**
Chen, Zhao Dou (*with* Shen, Yan Nan; Zhang, Li Jing[1]; Zhang, Dong Xia) An extension of Cooley-Tukey fast Fourier transform algorithms for multidimensional discrete Fourier transform. (Chinese. English summary) **2005j:65178**
Clausen, Michael (*with* Müller, Meinard) Generating fast Fourier transforms of solvable groups. (English summary) **2005e:65222**
Fan, Guo-Xin (*with* Liu, Qing Huo) Fast Fourier transform for discontinuous functions. (English summary)
Fenn, Markus (*with* Steidl, Gabriele) Fast NFFT based summation of radial functions. (English summary) **2005k:65300**
Fourmont, Karsten Non-equispaced fast Fourier transforms with applications to tomography. (English summary) **2005b:65154**
Fulop, Sean A. Semantic bootstrapping of type-logical grammar. (English summary) **2005i:65230**
Gao, Jing[1] (*with* Liu, Hua Ning) Generalized Möbius transform and arithmetic Fourier transform. (Chinese. English and Chinese summaries) **2005m:65319**
Greengard, Leslie *see* **Lee, June-Yub**
Grigoryan, Artyom M. An algorithm for calculation of the discrete cosine transform by paired transform. (English summary) **2005h:65270**
— (*with* Bhamidipati, Veerabhadra S.) Method of flow graph simplification for the 16-point discrete Fourier transform. (English summary) **2005h:65271**
van der Hoeven, Joris The truncated Fourier transform and applications. (English summary) (*see* **2005i:68002**)
Hu, Zhong (*with* Wan, Hong Hui) A novel generic fast Fourier transform pruning technique and complexity analysis. (English summary) **2005h:65272**
Jin, Guofan *see* **Yang, Xingpeng et al., 2005h:65274**
Lee, June-Yub (*with* Greengard, Leslie) The type 3 nonuniform FFT and its applications. (English summary)
Li, Fengting *see* **Cao, Jihua et al.**, (**2005i:42002**)
Liu, Bin-Da *see* **Chen, Che-Hong et al., 2005h:65269**
Liu, Hua Ning *see* **Gao, Jing[1], 2005m:65319**
Liu, J. G. (*with* Liu, Y. Z.; Wang, Guoyou) Fast discrete W transforms via computation of moments. (English summary) **2005j:65179**
Liu, Qing Huo *see* **Fan, Guo-Xin**
Liu, Y. Z. *see* **Liu, J. G. et al., 2005j:65179**
Martínez Sulbaran, Héctor E. *see* **Bultheel, Adhemar, 2005d:65250**
Meneguette, Messias, Jr. (*with* Messias, Marcelo) Theoretical aspects of the cosine transform. (English and Portuguese summaries)
Messias, Marcelo *see* **Meneguette, Messias, Jr.**
Müller, Meinard *see* **Clausen, Michael, 2005e:65222**
Mullin, Lenore R. *see* **Raynolds, James E., 2005m:65320**
Murakami, Hideo Prime-length real-valued polynomial residue division algorithms. (English summary) **2005g:65198**
Plonka, Gerlind (*with* Tasche, Manfred) Integer DCT-II by lifting steps. (English summary) (*see* **2005a:41001**)
Ran, Qiwen (*with* Yeung, Daniel S.; Tsang, Eric C. C.; Wang, Qi[5]) General multifractional Fourier transform method based on the generalized permutation matrix group. (English summary) **2005h:65273**
Raynolds, James E. (*with* Mullin, Lenore R.) Applications of conformal computing techniques to problems in computational physics: the fast Fourier transform. (English summary) **2005m:65320**
Seguel, Jaime Design and implementation of a parallel prime edge-length symmetric FFT. (English summary) (*see* **2005g:65008**)
— (*with* Burbano, Daniel) A parallel prime edge-length crystallographic FFT. (English summary) (*see* **2005g:00014**)
Shen, Yan Nan *see* **Chen, Zhao Dou et al., 2005j:65178**
Steidl, Gabriele *see* **Fenn, Markus, 2005k:65300**
Sun, Jia Chang (*with* Yao, Ji Feng) A fast algorithm for discrete generalized Fourier transforms on hexagon domains. (Chinese. English summary) **2005j:65180**
— *see also* **Yao, Ji Feng, 2005j:65181**
Sundqvist, Per *see* **Brandén, Henrik, 2005h:65268**
Swamy, M. N. S. *see* **Bouguezel, Saad et al., 2005h:65267**
Tan, Qiaofeng *see* **Yang, Xingpeng et al., 2005h:65274**
Tasche, Manfred *see* **Plonka, Gerlind**, (**2005a:41001**)
Tsang, Eric C. C. *see* **Ran, Qiwen et al., 2005h:65273**
Wan, Hong Hui *see* **Hu, Zhong, 2005h:65272**
Wang, Guoyou *see* **Liu, J. G. et al., 2005j:65179**
Wang, Qi[5] *see* **Ran, Qiwen et al., 2005h:65273**
Wang, Zhaohua *see* **Cao, Jihua et al.**, (**2005i:42002**)
Wei, Xiaofeng *see* **Yang, Xingpeng et al., 2005h:65274**
Xiang, Yong[1] *see* **Yang, Xingpeng et al., 2005h:65274**
Yan, Yingbai *see* **Yang, Xingpeng et al., 2005h:65274**
Yang, Jar-Ferr *see* **Chen, Che-Hong et al., 2005h:65269**
Yang, Xingpeng (*with* Tan, Qiaofeng; Wei, Xiaofeng; Xiang, Yong[1]; Yan, Yingbai; Jin, Guofan) Improved fast fractional-Fourier-transform algorithm. (English summary) **2005h:65274**
Yao, Ji Feng (*with* Sun, Jia Chang) HFFT on parallel dodecahedron domains and its parallel implementation. (Chinese. English summary) **2005j:65181**
— *see also* **Sun, Jia Chang, 2005j:65180**
Yeung, Daniel S. *see* **Ran, Qiwen et al., 2005h:65273**
Zhang, Dong Xia *see* **Chen, Zhao Dou et al., 2005j:65178**
Zhang, Li Jing[1] *see* **Chen, Zhao Dou et al., 2005j:65178**

Items with secondary classifications in 65T50

Ahmad, M. Omair *see* **Bouguezel, Saad et al., 2005f:94017**
Ahmed, Waleed Abd El Maguid *see* **Hanna, Magdy Tawfik et al., 2005h:65059**
Atoyan, A. (*with* Patera, Jiří) Properties of continuous Fourier extension of the discrete cosine transform and its multidimensional generalization. (English summary) **2005d:94022**
Babuška, Ivo (*with* Sauter, Stefan) Algebraic algorithms for the analysis of mechanical trusses. (English summary) **2005a:74066**
Beauchemin, Steven S. *see* **Beaudoin, Normand, 2005e:94019**
Beaudoin, Normand (*with* Beauchemin, Steven S.) A new numerical Fourier transform in d-dimensions. (English summary) **2005e:94019**
Bouguezel, Saad (*with* Ahmad, M. Omair; Swamy, M. N. S.) A new split-radix FHT algorithm for length-$q * 2^m$ DHTs. (English summary) **2005f:94017**
Carasso, Alfred S. Singular integrals, image smoothness, and the recovery of texture in image deblurring. (English summary) **2005h:65265**
Chen, Che-Hong (*with* Liu, Bin-Da; Yang, Jar-Ferr; Wang, Jiun-Lung) Efficient recursive structures for forward and inverse discrete cosine transform. (English summary) **2005f:94018**
Ding, Jian-Jiun *see* **Pei, Soo-Chang, 2005e:42101**
Fedorenko, S. V. *see* **Trifonov, P. V., 2005g:94023**
Hanna, Magdy Tawfik (*with* Seif, Nabila Philip Attalla; Ahmed, Waleed Abd El Maguid) Hermite-Gaussian-like eigenvectors of the discrete Fourier transform matrix based on the singular-value decomposition of its orthogonal projection matrices. (English summary) **2005h:65059**
He, Jia Xing *see* **Wang, Mengzhe**, (**2005i:42002**)
Karampetakis, N. P. *see* **Vologiannidis, S., 2005g:15012**
Liu, Bin-Da *see* **Chen, Che-Hong et al., 2005f:94018**
Liu, Liang (*with* Sun, Qi) A problem on Mersenne transform over $\mathbf{F}_{q^2}$. **2005k:11238**
Maslen, David Keith (*with* Rockmore, Daniel N.) The Cooley-Tukey FFT and group theory. (English summary) **2005e:20009**
Patera, Jiří *see* **Atoyan, A., 2005d:94022**
Pei, Soo-Chang (*with* Ding, Jian-Jiun) Generalized eigenvectors and fractionalization of offset DFTs and DCTs. (English summary) **2005e:42101**
— (*with* Ding, Jian-Jiun) Generalized prolate spheroidal wave functions for optical finite fractional Fourier and linear canonical transforms. (English summary)
Plonka, Gerlind (*with* Tasche, Manfred) Numerical stability of fast trigonometric and orthogonal wavelet transforms. (English summary) **2005h:42077**
Prabhu, K. M. M. *see* **Raghavan, Vasanthan et al., 2005h:94018**
Raghavan, Vasanthan (*with* Prabhu, K. M. M.; Sommen, Piet C. W.) An analysis of real-Fourier domain-based adaptive algorithms implemented with the Hartley transform using cosine-sine symmetries. (English summary) **2005h:94018**
Rockmore, Daniel N. *see* **Maslen, David Keith, 2005e:20009**
Sauter, Stefan *see* **Babuška, Ivo, 2005a:74066**
Schipp, Ferenc On orthonormal product systems. (English summary) **2005m:42052**
Seif, Nabila Philip Attalla *see* **Hanna, Magdy Tawfik et al., 2005h:65059**
Sommen, Piet C. W. *see* **Raghavan, Vasanthan et al., 2005h:94018**
Sun, Qi *see* **Liu, Liang, 2005k:11238**
Swamy, M. N. S. *see* **Bouguezel, Saad et al., 2005f:94017**
Tasche, Manfred *see* **Plonka, Gerlind, 2005h:42077**
Trifonov, P. V. (*with* Fedorenko, S. V.) A method for the fast computation of the Fourier transform over a finite field. (Russian. Russian summary) **2005g:94023**
Vologiannidis, S. (*with* Karampetakis, N. P.) Inverses of multivariable polynomial matrices by discrete Fourier transforms. (English summary) **2005g:15012**
Wang, Jiun-Lung *see* **Chen, Che-Hong et al., 2005f:94018**
Wang, Mengzhe (*with* He, Jia Xing) The algorithm research of fast multiwavelet transform based on FFT. (English summary) (*see* **2005i:42002**)
Yang, Jar-Ferr *see* **Chen, Che-Hong et al., 2005f:94018**

65T60 Wavelets

Bennett, Nicholas N. (*with* Malinverno, Alberto) Fast model updates using wavelets. (English summary) **2005i:65231**
Beuchler, S. (*with* Schneider, Reinhold; Schwab, Christoph) Multiresolution weighted norm equivalences and applications. (English summary) **2005g:65199**
Beutel, Laura Nonstationary sibling wavelet frames on bounded intervals: the duality relation. (English summary) (*see* **2005j:68003**)
Cao, Chun Hong (*with* Gao, Xie Ping) A preliminary result of the symmetry of r multiplicity orthogonal and balanced multi-wavelets. (Chinese. English and Chinese summaries)
Chen, Qiuhui (*with* Xu, Yuesheng) The cascade algorithm for the numerical computation of refinable functions. (English summary) **2005f:65186**
Cheng, Zheng Xing *see* **Leng, Jin Song et al., 2005j:65182**
Finěk, Václav Daubechies wavelets on intervals with application to BVPs. (English summary) **2005h:65275**
Flad, Heinz-Jürgen (*with* Hackbusch, Wolfgang; Luo, Hongjun; Kolb, Dietmar) Wavelet approach to quasi two-dimensional extended many-particle systems. I. Supercell Hartree-Fock method. (English summary) **2005m:65321**
Freeden, W. (*with* Michel, Volker) Orthogonal zonal, tesseral and sectorial wavelets on the sphere for the analysis of satellite data. (English summary) **2005d:65251**
Fu, Kai Xin *see* **Liang, Hui Fang**
Gao, Xie Ping *see* **Cao, Chun Hong**
Hackbusch, Wolfgang *see* **Flad, Heinz-Jürgen et al., 2005m:65321**

Hajji, M. A. (*with* Melkonian, S.; Vaillancourt, Rémi) Two-dimensional wavelet bases for partial differential operators and applications. (English summary) **2005g:65200**
Hegland, Markus (*with* Nielsen, Ole M.; Shen, Zuowei) Multidimensional smoothing using hyperbolic interpolatory wavelets. (English summary) **2005m:65322**
Huang, Ting-Zhu *see* **Leng, Jin Song et al., 2005j:65182**
Kolb, Dietmar *see* **Flad, Heinz-Jürgen et al., 2005m:65321**
Kopysov, S. P. (*with* Sagdeeva, Yu. A.) Multiscale analysis based on the finite element method and wavelet transformation. (Russian) (*see* **2005b:00029**)
Leng, Jin Song (*with* Cheng, Zheng Xing; Yang, Shou Zhi; Huang, Ting-Zhu) Construction of conjugate quadrature filter. (Chinese. English summary) **2005j:65182**
Liang, Hui Fang (*with* Fu, Kai Xin) Approximation properties of spline wavelets interpolation on the interval and its parallel algorithm. (Chinese. English and Chinese summaries)
Luo, Hongjun *see* **Flad, Heinz-Jürgen et al., 2005m:65321**
Malinverno, Alberto *see* **Bennett, Nicholas N., 2005i:65231**
Matei, Basarab Smoothness characterization and stability for nonlinear multiscale representations. (English and French summaries)
Melkonian, S. *see* **Hajji, M. A. et al., 2005g:65200**
Michel, Volker *see* **Freeden, W., 2005d:65251**
Nielsen, Ole M. *see* **Hegland, Markus et al., 2005m:65322**
Roşca, Daniela Haar wavelets on spherical triangulations. (English summary) (*see* **2005j:68003**)
Sagdeeva, Yu. A. *see* **Kopysov, S. P., (2005b:00029)**
Schneider, Reinhold *see* **Beuchler, S. et al., 2005g:65199**
Schwab, Christoph *see* **Beuchler, S. et al., 2005g:65199**
Shen, Zuowei *see* **Hegland, Markus et al., 2005m:65322**
Strelkov, N. A. Wavelets generated by B-splines. (English summary) (*see* **2005i:65006**)
Sun, Yankui (*with* Tang, Long) Fast method to compute tensor product 2-D wavelet transforms. (English summary) (*see* **2005i:42002**)
Tang, Long *see* **Sun, Yankui, (2005i:42002)**
Vaillancourt, Rémi *see* **Hajji, M. A. et al., 2005g:65200**
Xu, Yuesheng *see* **Chen, Qiuhui, 2005f:65186**
Yang, Shou Zhi A fast algorithm for constructing orthogonal multiwavelets. (English summary) **2005h:65276**
— (*with* Yang, Xiao Zhong) Computation of the support of multiscaling functions. (Chinese. English summary) **2005m:65323**
— *see also* **Leng, Jin Song et al., 2005j:65182**
Yang, Xiao Zhong *see* **Yang, Shou Zhi, 2005m:65323**

Items with secondary classifications in 65T60

Abe, Kazuhisa *see* **Koro, K., (2005d:65006)**
Aliev, Ilham A. *see* **Eryiğit, Melih, 2005k:42097**
Amat, Sergio (*with* Liandrat, Jacques) On the stability of the PPH nonlinear multiresolution. (English summary) **2005k:41058**
Ameur, El Bachir (*with* Sbibih, Driss) Quadratic spline wavelets with arbitrary simple knots on the sphere. (English summary) **2005a:41006**
Ashino, Ryuichi (*with* Mandai, Takeshi; Morimoto, Akira) Applications of wavelet transforms to system identification. (English summary) **2005g:93031**
Bacchelli, Barbara (*with* Bozzini, Mira; Rabut, Christophe; Varas S., María Leonor) Decomposition and reconstruction of multidimensional signals using polyharmonic prewavelets. (English summary) **2005m:42058**
Bacchelli, Silvia (*with* Papi, Serena) Filtered wavelet thresholding methods. (English summary) **2005e:94009**
Bastin, F. (*with* Boigelot, C.; Laubin, P.) Spline wavelets in periodic Sobolev spaces and application to high order collocation methods. (English summary) **2005d:65214**
Belardi, Aldo Artur (*with* Cardoso, José Roberto; França Sartori, Carlos Antonio) Wavelet's application in electrostatic and their computing aspects. (English summary)
Bigot, Jérémie A scale-space approach with wavelets to singularity estimation. (English summary)
Billings, Stephen A. *see* **Wei, H. L.**
Blatov, I. A. On estimates of the inverse matrices elements for the Galerkin method for singular integral equations based on the spline wavelets. (English summary) (*see* **2005i:65006**)
Blum, Jacques *see* **Paun, Ioana et al., 2005b:86014**
Boigelot, C. *see* **Bastin, F. et al., 2005d:65214**
Bonneau, Georges-Pierre *see* **Sauvage, Basile et al., 2005i:65026**
de la Bourdonnaye, Armel (*with* Tolentino, Marc) Reducing the condition number for microlocal discretization problems. (English summary)
Bozzini, Mira *see* **Bacchelli, Barbara et al., 2005m:42058**
Bultheel, Adhemar *see* **Vanraes, Evelyne et al., 2005e:42129**
Capobianco, M. R. (*with* Themistoclakis, W.) Interpolating polynomial wavelets on $[-1, 1]$. (English summary) **2005m:42060**
Cardoso, José Roberto *see* **Belardi, Aldo Artur et al.**
Cattani, Carlo (*with* Laserra, E.; Pecoraro, M.) Spline-wavelet solutions for diffusion equation. (English summary) **2005c:65087**
— Harmonic wavelet solutions of the Schrödinger equation. (English summary) **2005m:35060**
Charpentier, Isabelle *see* **Paun, Ioana et al., 2005b:86014**
Chen, Qiuhui (*with* Micchelli, Charles A.; Peng, Silong; Xu, Yuesheng) Multivariate filter banks having matrix factorizations. (English summary) **2005a:42025**
— (*with* Micchelli, Charles A.; Xu, Yuesheng) Biorthogonal multivariate filter banks from centrally symmetric matrices. (English summary) **2005m:42061**
Chen, Xuefeng *see* **Li, Bing et al., (2005i:42002)**
Cheng, Zheng Xing *see* **Yang, Jian Wei, 2005i:42051**
Chertock, Alina (*with* Levy, Doron) On wavelet-based numerical homogenization. (English summary) **2005i:74065**
Christensen, Ole (*with* Strohmer, Thomas) The finite section method and problems in frame theory. (English summary) **2005k:42071**
Craigmile, Peter F. Approximate wavelet-based simulation of long memory processes. (English summary)
Dekel, S. (*with* Leviatan, D.; Sharir, Micha) On bivariate smoothness spaces associated with nonlinear approximation. (English summary) **2005g:41051**
Dumont, Serge (*with* Lebon, Frédéric) Wavelet-Galerkin method for plane elastostatics. (English and Portuguese summaries) **2005f:74033**
Eppler, K. (*with* Harbrecht, Helmut) Exterior electromagnetic shaping using wavelet BEM. (English summary) **2005j:65155**
Eryiğit, Melih (*with* Aliev, Ilham A.) A wavelet-type transform generated by the Poisson semigroup. (English summary) **2005k:42097**
Farge, Marie *see* **Schneider, Kai et al., 2005j:76048**
Finěk, Václav Approximation properties of wavelets and relations among scaling moments. II. (English summary) **2005i:42042**
— Approximation properties of wavelets and relations among scaling moments. (English summary) **2005i:42043**
Ford, Judith M. An improved discrete wavelet transform preconditioner for dense matrix problems. (English summary) **2005e:65038**
França Sartori, Carlos Antonio *see* **Belardi, Aldo Artur et al.**
Fu, H. S. (*with* Han, Bo) A wavelet multiscale method for the inverse problems of a two-dimensional wave equation. (English summary)
Ghanem, Roger G. *see* **Le Maître, Olivier P. et al., 2005a:76123**
Goldstein, Daniel E. (*with* Vasilyev, Oleg V.) Stochastic coherent adaptive large eddy simulation method. (English summary) **2005b:76077**
Goosen, K. M. *see* **de Villiers, J. M. et al., 2005c:42035**
Hahmann, Stefanie *see* **Sauvage, Basile et al., 2005i:65026**
Han, Bin[2] (*with* Yu, Thomas P.-Y.; Piper, Bruce) Multivariate refinable Hermite interpolant. (English summary) **2005e:41004**
Han, Bo *see* **Fu, H. S.**
Harbrecht, Helmut (*with* Schneider, Reinhold) Wavelet based fast solution of boundary integral equations. (English summary) (*see* **2005d:00012**)
— *see also* **Eppler, K., 2005j:65155**
He, Tian Xiao Biorthogonal spline type wavelets. (English summary) **2005h:42071**
He, Yinnian *see* **Zhou, Xiao Lin[1], 2005j:76069**
He, Zhengjia *see* **Li, Bing et al., (2005i:42002)**
Heijmans, Henk J. A. M. (*with* Pesquet-Popescu, Béatrice; Piella, Gemma) Building nonredundant adaptive wavelets by update lifting. (English summary) **2005m:42066**
Herbst, B. M. *see* **de Villiers, J. M. et al., 2005c:42035**
Hoffman, David K. *see* **Yang, Jiansheng et al., 2005e:42134**
Hogan, Jeffrey A. (*with* Lakey, Joseph D.) ★ Time-frequency and time-scale methods. **2005k:42102**
Hou, Xia (*with* Hu, Shou Song) A novel weighted wavelet with subdivision. (Chinese. English and Chinese summaries) **2005k:42103**
Hu, Shou Song *see* **Hou, Xia, 2005k:42103**
Huang, Da Ren (*with* Li, Feng; Yang, Li Hua[1]) L^1-based decomposition and reconstruction algorithms and W-matrices. (English summary) **2005a:94018**
Huybrechs, Daan (*with* Simoens, J.; Vandewalle, Stefan) A note on wave number dependence of wavelet matrix compression for integral equations with oscillatory kernel. (English summary) **2005e:78019**
Jacob, Arne F. *see* **Schneider, Guido[2] et al.**
Johnson, Brody Dylan On the oversampling of affine wavelet frames. (English summary) **2005d:42034**
Kakadiaris, Ioannis *see* **Yang, Jiansheng et al., 2005e:42134**
Kamont, Anna (*with* Wolnik, Barbara) The Walsh transform of wavelet type systems: divergence almost everywhere. (English summary) **2005g:42082**
Keinert, Fritz ★ Wavelets and multiwavelets. **2005b:42001**
Keller, Wolfgang ★ Wavelets in geodesy and geodynamics. **2005b:86042**
Kevlahan, Nicholas *see* **Schneider, Kai et al., 2005j:76048**
Khramov, A. E. *see* **Koronovskiĭ, A. A., 2005i:42044**
Kivinukk, Andi *see* **Vaĭnikko, G. M. et al., 2005m:65316**
Knio, Omar M. *see* **Le Maître, Olivier P. et al., 2005a:76123**
Koro, K. (*with* Abe, Kazuhisa) Matrix compression schemes for wavelet BEM and their performance. (English summary) (*see* **2005d:65006**)
Koronovskiĭ, A. A. (*with* Khramov, A. E.) ★ Непрерывный вейвлетный анализ в приложениях к задачам нелинейной динамики. (Russian. Russian summary) [Continuous wavelet analysis in applications to problems of nonlinear dynamics] **2005i:42044**
Kouri, Donald J. *see* **Yang, Jiansheng et al., 2005e:42134**
Kunoth, Angela Adaptive wavelet schemes for an elliptic control problem with Dirichlet boundary control. (English summary) **2005k:49095**
Lakey, Joseph D. *see* **Hogan, Jeffrey A., 2005k:42102**
Laserra, E. *see* **Cattani, Carlo et al., 2005c:65087**
Laubin, P. *see* **Bastin, F. et al., 2005d:65214**
Lebon, Frédéric *see* **Dumont, Serge, 2005f:74033**
Le Maître, Olivier P. (*with* Knio, Omar M.; Najm, Habib N.; Ghanem, Roger G.) Uncertainty propagation using Wiener-Haar expansions. (English summary) **2005a:76123**
Lepik, Ülo Numerical solution of differential equations using Haar wavelets. (English summary) **2005m:65148**
Leviatan, D. *see* **Dekel, S. et al., 2005g:41051**
Levy, Doron *see* **Chertock, Alina, 2005i:74065**
Li, Bing (*with* Chen, Xuefeng; He, Zhengjia; Zhuo, Jie) Beam bending analysis using wavelet finite element. (English summary) (*see* **2005i:42002**)
Li, Denggao (*with* Qin, Kai-Huai; Sun, Hanqiu) Curve modeling with constrained B-spline wavelets. (English summary)
Li, Feng *see* **Huang, Da Ren et al., 2005a:94018**
Li, Luo Qing *see* **Yang, Jian Wei et al., 2005k:42112**
Li, Ying *see* **Yuan, Xiu Gui**
Lian, Jian-ao On multivariate multiwavelets. (English summary) (*see* **2005i:65007**)
Liandrat, Jacques *see* **Piquemal, Anne-Sophie, 2005j:65073** *and* **Amat, Sergio, 2005k:41058**
Liang, Xi Kun A Thiele-type algorithm for continuous wavelet transformations. (Chinese. English summary) **2005d:42044**
Liang, Zhigang (*with* Yau, Stephen S. T.) Wavelet-Galerkin method for the Kolmogorov equation. (English summary) **2005j:65113**

Lippus, Jüri *see* **Vaĭnikko, G. M. et al., 2005m:65316**
Liu, Xiangning *see* **Wu, Bo Ying, (2005i:42002)**
Liu, Ze Yi (*with* Yu, Wen Huan) Identification of discrete and nonlinear systems by use of wavelet neural networks. (Chinese. English and Chinese summaries) **2005k:93057**
Liu, Zhuyong *see* **Tang, Jia Shi**
Ma, Jian Wei (*with* Yang, Hui Zhu) Multiresolution symplectic scheme for wave propagation in complex media. (Chinese. English and Chinese summaries) **2005f:65172**
Maes, Jan *see* **Vanraes, Evelyne et al., 2005e:42129**
Mandai, Takeshi *see* **Ashino, Ryuichi et al., 2005g:93031**
Marrosu, Francesco *see* **Santoni, Federico, (2005d:92001)**
Matache, Ana-Maria (*with* von Petersdorff, Tobias; Schwab, Christoph) Fast deterministic pricing of options on Lévy driven assets. (English summary) **2005h:60200**
Mehra, Mani (*with* Ratish Kumar, B. V.) Time-accurate solution of advection-diffusion problems by wavelet-Taylor-Galerkin method. (English summary) **2005m:65220**
— *see also* **Ratish Kumar, B. V., 2005h:65170**
Micchelli, Charles A. *see* **Chen, Qiuhui et al., 2005a:42025** *and* **2005m:42061**
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Najm, Habib N. *see* **Le Maître, Olivier P. et al., 2005a:76123**
Nazarzadeh, J. *see* **Shamsi, M. et al., 2005g:65195**
Nitsche, Pál-Andrej Sparse approximation of singularity functions. (English summary) **2005h:41038**
Oberschmidt, Gerald *see* **Schneider, Guido[2] et al.**
Papadakis, Manos *see* **Yang, Jiansheng et al., 2005e:42134**
Papi, Serena *see* **Bacchelli, Silvia, 2005e:94009**
Parsian, H. Two dimension Legendre wavelets and operational matrices of integration. (English summary) **2005k:42108**
Paule, Peter (*with* Scherzer, Otmar; Schoisswohl, Armin) Wavelets with scale dependent properties. (English summary) **2005a:42029**
Paun, Ioana (*with* Blum, Jacques; Charpentier, Isabelle) Utilisation des bases d'ondelettes pour la réduction du coût de l'assimilation de données dans un modèle de circulation océanique. (French summary) [Using wavelet bases to reduce the cost of data assimilation in an ocean circulation model] **2005b:86014**
Pecoraro, M. *see* **Cattani, Carlo et al., 2005c:65087**
Peng, Silong *see* **Chen, Qiuhui et al., 2005a:42025**
Perel, Maria V. (*with* Sidorenko, Mikhail S.) Wavelet analysis in solving the Cauchy problem for the wave equation in three-dimensional space. (English summary) (*see* **2005b:00020**)
Pesquet-Popescu, Béatrice *see* **Heijmans, Henk J. A. M. et al., 2005m:42066**
von Petersdorff, Tobias *see* **Matache, Ana-Maria et al., 2005h:60200**
Piella, Gemma *see* **Heijmans, Henk J. A. M. et al., 2005m:42066**
Piper, Bruce *see* **Han, Bin[2] et al., 2005e:41004**
Piquemal, Anne-Sophie (*with* Liandrat, Jacques) A new wavelet preconditioner for finite difference operators. (English summary) **2005j:65073**
Qin, Kai-Huai *see* **Li, Denggao et al.**
Rabut, Christophe *see* **Bacchelli, Barbara et al., 2005m:42058**
Ratish Kumar, B. V. (*with* Mehra, Mani) Time-accurate solutions of Korteweg-de Vries equation using wavelet Galerkin method. (English summary) **2005h:65170**
— *see also* **Mehra, Mani, 2005m:65220**
Razzaghi, Mohsen *see* **Shamsi, M. et al., 2005g:65195**
Regińska, Teresa Application of wavelet shrinkage to solving the sideways heat equation. (English summary) **2005c:65080**
Santoni, Federico (*with* Marrosu, Francesco) EEG analysis in cerebral death condition using wavelet packet decomposition. (English summary) (*see* **2005d:92001**)
Sauvage, Basile (*with* Hahmann, Stefanie; Bonneau, Georges-Pierre) Length preserving multiresolution editing of curves. (English summary) **2005i:65026**
Sbibih, Driss *see* **Ameur, El Bachir, 2005a:41006**
Scherzer, Otmar *see* **Paule, Peter et al., 2005a:42029**
Schneider, Guido[2] (*with* Oberschmidt, Gerald; Jacob, Arne F.) Efficient implementation of a wavelet based Galerkin scheme. (English summary)
Schneider, Kai (*with* Farge, Marie; Kevlahan, Nicholas) Spatial intermittency in two-dimensional turbulence: a wavelet approach. (English summary) **2005j:76048**
Schneider, Reinhold *see* **Harbrecht, Helmut, (2005d:00012)**
Schoisswohl, Armin *see* **Paule, Peter et al., 2005a:42029**
Schwab, Christoph *see* **Matache, Ana-Maria et al., 2005h:60200**
Shafiee, M. *see* **Shamsi, M. et al., 2005g:65195**
Shamsi, M. (*with* Razzaghi, Mohsen; Nazarzadeh, J.; Shafiee, M.) Haar wavelets method for solving Pocklington's integral equation. (English summary) **2005g:65195**
Sharir, Micha *see* **Dekel, S. et al., 2005g:41051**
Shen, Lixin[2] *see* **Yang, Jiansheng et al., 2005e:42134**
Sidorenko, Mikhail S. *see* **Perel, Maria V., (2005b:00020)**
Simoens, J. *see* **Huybrechs, Daan et al., 2005e:78019**
Spanos, Pol-T. D. (*with* Tezcan, Jale; Tratskas, Petros) Stochastic processes evolutionary spectrum estimation via harmonic wavelets. (English summary)
Stevenson, Rob Locally supported, piecewise polynomial biorthogonal wavelets on nonuniform meshes. (English summary) **2005a:42032**
Strohmer, Thomas *see* **Christensen, Ole, 2005k:42071**
Sun, Hanqiu *see* **Li, Denggao et al.**
Tang, Jia Shi (*with* Liu, Zhuyong) Quasi-wavelet solution of diffusion problems. (English summary)
Tang, Yuan Yan[1] *see* **Yang, Jian Wei et al., 2005k:42112**
Tausch, J. A variable order wavelet method for the sparse representation of layer potentials in the non-standard form. (English summary) **2005f:65163**
Tezcan, Jale *see* **Spanos, Pol-T. D. et al.**
Themistoclakis, W. *see* **Capobianco, M. R., 2005m:42060**
Tolentino, Marc *see* **de la Bourdonnaye, Armel**
Tratskas, Petros *see* **Spanos, Pol-T. D. et al.**
Vaĭnikko, G. M. (*with* Kivinukk, Andi; Lippus, Jüri) Fast solvers of integral equations of the second kind: wavelet methods. (English summary) **2005m:65316**
Vandewalle, Stefan *see* **Huybrechs, Daan et al., 2005e:78019**
Vanraes, Evelyne (*with* Maes, Jan; Bultheel, Adhemar) Powell-Sabin spline wavelets. (English summary) **2005e:42129**
Varas S., María Leonor *see* **Bacchelli, Barbara et al., 2005m:42058**
Vasilyev, Oleg V. *see* **Goldstein, Daniel E., 2005b:76077**
de Villiers, J. M. (*with* Goosen, K. M.; Herbst, B. M.) Dubuc-Deslauriers subdivision for finite sequences and interpolation wavelets on an interval. (English summary) **2005c:42035**
Wei, H. L. (*with* Billings, Stephen A.) Identification and reconstruction of chaotic systems using multiresolution wavelet decompositions. (English summary)
Wolnik, Barbara The Walsh transform of wavelet type systems: convergence almost everywhere. (English summary) **2005m:42070**
— *see also* **Kamont, Anna, 2005g:42082**
Wu, Bo Ying (*with* Liu, Xiangning) Domain decomposition adaptive algorithm with wavelet method to trace shock wave. (English summary) (*see* **2005i:42002**)
Xu, Yuesheng *see* **Chen, Qiuhui et al., 2005a:42025** *and* **2005m:42061**
Yan, Wen Jun *see* **Zheng, Jun[2] et al.**
Yang, Hui Zhu *see* **Ma, Jian Wei, 2005f:65172**
Yang, Jian Wei (*with* Cheng, Zheng Xing) Construction of orthogonal multiwavelets. (Chinese. English summary) **2005i:42051**
— (*with* Li, Luo Qing; Tang, Yuan Yan[1]) Construction of compactly supported bivariate orthogonal wavelets by univariate orthogonal wavelets. (English summary) **2005k:42112**
Yang, Jiansheng (*with* Shen, Lixin[2]; Papadakis, Manos; Kakadiaris, Ioannis; Kouri, Donald J.; Hoffman, David K.) Orthonormal wavelets arising from HDAFs. (English summary) **2005e:42134**
Yang, Li Hua[1] *see* **Huang, Da Ren et al., 2005a:94018**
Yang, Shou Zhi Compactly supported interpolatory orthogonal multiwavelet packets. (English summary) **2005m:42072**
Yau, Stephen S. T. *see* **Liang, Zhigang, 2005j:65113**
Yu, Thomas P.-Y. *see* **Han, Bin[2] et al., 2005e:41004**
Yu, Wen Huan *see* **Liu, Ze Yi, 2005k:93057**
Yuan, Xiu Gui (*with* Li, Ying) An application of wavelet analysis on economical forecast model. (Chinese. English and Chinese summaries)
Zheng, Jun[2] (*with* Yan, Wen Jun; Zhu, Jing[1]) Nonparametric identification approach based on wavelet approximation and scale transformation. (Chinese. English and Chinese summaries)
Zhou, Xiao Lin[1] Wavelets-Galerkin scheme for a Stokes problem. (English summary) **2005d:65213**
— (*with* He, Yinnian) Using divergence free wavelets for the numerical solution of the 2-D stationary Navier-Stokes equations. (English summary) **2005j:76069**
Zhou, Xinlong Subdivision schemes with nonnegative masks. (English summary) **2005m:65033**
Zhu, Jing[1] *see* **Zheng, Jun[2] et al.**
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Ferrari, José A. *see* **Perciante, César D., 2005h:65277**
Perciante, César D. (*with* Ferrari, José A.) Fast Hankel transform of nth order with improved performance. (English summary) **2005h:65277**

Items with secondary classifications in 65T99

Healy, Dennis M., Jr. (*with* Kostelec, P. J.; Rockmore, Daniel N.) Towards safe and effective high-order Legendre transforms with applications to FFTs for the 2-sphere. (English summary) **2005d:42031**
Kostelec, P. J. *see* **Healy, Dennis M., Jr. et al., 2005d:42031**
Liu, Yijing *see* **Luo, Jinwen**
Luo, Jinwen (*with* Liu, Yijing) Fast computation of the target signal phase in noisy environments. (English summary)
Pakhomov, S. N. Computation of interior segment of Fourier spectrum. (English summary)
Rockmore, Daniel N. *see* **Healy, Dennis M., Jr. et al., 2005d:42031**

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Chiorean, Ioana On some 2D parallel relaxation schemes. (English summary) (*see* **2005b:41002**)
— Parallel methods for solving partial differential equations. (English summary)
Clark, Terry *see* **Scott, Larkin Ridgway et al., 2005k:65301**
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Cui, Wei (*with* Zeng, Xian Wen; Zhao, Guo Wei) Parallel algorithm by row action method with orthogonalization for systems of linear equations. (Chinese. English and Chinese summaries)
Devine, Karen D. (*with* Boman, Erik G.; Heaphy, Robert T.; Hendrickson, Bruce A.; Teresco, James D.; Faik, Jamal; Flaherty, Joseph E.; Gervasio, Luis G.) New challenges in dynamic load balancing. (English summary)
El Baz, Didier (*with* Frommer, Andreas; Spiteri, Pierre) Asynchronous iterations with flexible communication: contracting operators. (English summary) **2005i:65232**
Faik, Jamal *see* **Devine, Karen D. et al.**
Fernández Cara, Enrique *see* **Galo, José R. et al.**
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Galo, José R. (*with* Albarreal Núñez, Isidoro I.; Calzada Canalejo, M. Carmen; Cruz Soto, José Luis; Fernández Cara, Enrique; Marín Beltrán, Mercedes) Simultaneous directions parallel methods for elliptic and parabolic systems. (English and French summaries)

Gervasio, Luis G. *see* **Devine, Karen D. et al.**
Heaphy, Robert T. *see* **Devine, Karen D. et al.**
Hendrickson, Bruce A. *see* **Devine, Karen D. et al.**
Huang, Xu Dong[1] *see* **Lin, Lu[1]**
Kačeniauskas, Arnas (*with* Rutschmann, Peter) Parallel FEM software for CFD problems. (English and Lithuanian summaries)
Lastovetskiĭ, A. L. (*with* Reddy, Ravi) On performance analysis of heterogeneous parallel algorithms. (English summary)
Lin, Lu[1] (*with* Huang, Xu Dong[1]) A parallel algorithm for Lagrange interpolation polynomials. (Chinese. English and Chinese summaries)
Marín Beltrán, Mercedes *see* **Galo, José R. et al.**
Nägeli, Hans-Heinrich *see* **Rotaru, Tiberiu**, 2005b:65155
Reddy, Ravi *see* **Lastovetskiĭ, A. L.**
Reif, John H. Efficient parallel factorization and solution of structured and unstructured linear systems. (English summary) **2005m:65324**
Rodríguez, Ismael *see* **Rubio, Fernando**, (2005c:00015)
Rotaru, Tiberiu (*with* Nägeli, Hans-Heinrich) Fast algorithms for fair dynamic load redistribution in heterogeneous environments. (English summary) **2005b:65155**
Rubio, Fernando (*with* Rodríguez, Ismael) A parallel framework for computational science. (English summary) (*see* **2005c:00015**)
Rutschmann, Peter *see* **Kačeniauskas, Arnas**
Scott, Larkin Ridgway (*with* Clark, Terry; Bagheri, Babak) ★ Scientific parallel computing. **2005k:65301**
Spiteri, Pierre *see* **El Baz, Didier et al.**, 2005i:65232
Teresco, James D. *see* **Devine, Karen D. et al.**
Yang, Zhi Xia (*with* Zhang, Zhi Nan) A new parallel algorithm for linear least-squares problems. (Chinese. English and Chinese summaries)
Zeng, Xian Wen *see* **Cui, Wei et al.**
Zhang, Zhi Nan *see* **Yang, Zhi Xia**
Zhao, Guo Wei *see* **Cui, Wei et al.**

Items with secondary classifications in 65Y05

Akhmetzyanov, A. V. (*with* Kulibanov, V. N.) Unconventional mathematical models of fluid filtration in porous media. (Russian. Russian summary) **2005d:76040**
Albarreal Núñez, Isidoro I. *see* **Galo, José R. et al.**
Allen, Kevin P. (*with* Gobbert, Matthias K.) Coarse-grained parallel matrix-free solution of a three-dimensional elliptic prototype problem. (English summary) (*see* **2005g:65009**)
Alonso, Pedro (*with* Cortina, Raquel; Díaz, Irene; Ranilla, José) Neville elimination: a study of the efficiency using checkerboard partitioning. (English summary) **2005g:65045**
Altundas, Y. B. (*with* Caginalp, G.) Parallel computation of single-needle dendrites in 3D and comparison with microgravity experiment. (English summary) (*see* **2005b:65003**)
Arnal, Josep (*with* Migallón, Violeta; Penadés, José) Parallel Newton two-stage multisplitting iterative methods for nonlinear systems. (English summary) **2005d:65082**
Aykanat, Cevdet *see* **Uçar, Bora**, 2005g:05092
Bahi, Jacques M. (*with* Contassot-Vivier, Sylvain; Couturier, Raphaël) Evaluation of the asynchronous iterative algorithms in the context of distant heterogeneous clusters. (English summary)
Boĭkov, I. V. (*with* Tynda, A. N.) Methods of optimal accuracy for approximate solution of second-kind weakly singular Volterra integral equations for multiprocessor computers. (English summary) (*see* **2005i:65006**)
Caginalp, G. *see* **Altundas, Y. B.**, (2005b:65003)
Cai, Xiao-Chuan *see* **Murillo, Maria**, 2005f:65123
Calzada Canalejo, M. Carmen *see* **Galo, José R. et al.**
Campbell, Timothy J. *see* **Nakano, Aiichiro et al.**, (2005c:81001)
Caron, Eddy (*with* Utard, Gil) On the performance of parallel factorization of out-of-core matrices. (English summary) **2005a:65028**
Chawla, Man M. (*with* Khazal, Reyadh R.) A parallel householder method for banded linear systems. (*see* **2005m:00008**)
Chigerev, E. N. *see* **Tolstykh, Andrei I. et al.**, (2005b:76005)
Chiorean, Ioana *see* **Szakacs, Laura**
Čiegis, Raimondas (*with* Starikovičius, V.; Waśniewski, Jerzy) Performance prediction tool for parallel Gaussian elimination algorithm. (English summary) (*see* **2005c:65004**)
Climent, Joan-Josep (*with* Perea, Carmen; Tortosa, Leandro; Zamora, Antonio) A BSP recursive divide and conquer algorithm to solve a tridiagonal linear system. (English summary) **2005e:65034**
— (*with* Perea, Carmen; Tortosa, Leandro; Zamora, Antonio) An overlapped two-way method for solving tridiagonal linear systems in a BSP computer. (English summary)
Contassot-Vivier, Sylvain *see* **Bahi, Jacques M. et al.**
Cortina, Raquel *see* **Alonso, Pedro et al.**, 2005g:65045
Couturier, Raphaël *see* **Bahi, Jacques M. et al.**
Cruz Soto, José Luis *see* **Galo, José R. et al.**
Cui, Xia *see* **Sheng, Zhiqiang et al.**, 2005i:65138
Díaz, Irene *see* **Alonso, Pedro et al.**, 2005g:65045
Dixon, Matthew F. (*with* Tan, Chih Jeng Kenneth) Distributed solution of high-order compact difference schemes for multidimensional convection-diffusion equations. (English summary) **2005k:65169**
Drăgan, Mircea[2] On decomposing large sparse systems of nonlinear equations. (English summary) **2005c:65043**
Duff, Iain S. (*with* Scott, Jennifer A.) A parallel direct solver for large sparse highly unsymmetric linear systems. (English summary) **2005b:65052**
El Baz, Didier *see* **Spiteri, Pierre et al.**, 2005a:65151
Elizarova, T. G. (*with* Milyukova, O. Yu.) Parallel algorithm for numerical simulation of 3D incompressible flows. (English summary) (*see* **2005b:76005**)
Fernández Cara, Enrique *see* **Galo, José R. et al.**
Galo, José R. (*with* Albarreal Núñez, Isidoro I.; Calzada Canalejo, M. Carmen; Cruz Soto, José Luis; Fernández Cara, Enrique; Marín Beltrán, Mercedes) A simultaneous directions parallel algorithm for the Navier-Stokes equations. (English and French summaries)
Garbey, M. Aitken-Schwarz method for CFD solvers. (*see* **2005b:76005**)
Gobbert, Matthias K. *see* **Allen, Kevin P.**, (2005g:65009)
Haridas, Satchidanand G. (*with* Ziavras, Sotirios G.) FPGA implementation of a Cholesky algorithm for a shared-memory multiprocessor architecture. (English summary)
Heath, Lenwood S. (*with* Ribbens, C. J.; Pemmaraju, Sriram V.) Processor-efficient sparse matrix-vector multiplication. (English summary) **2005h:65077**
Kalia, Rajiv K. *see* **Nakano, Aiichiro et al.**, (2005c:81001)
Kaya, Doğan (*with* Wright, Ken) Parallel algorithms for LU decomposition on a shared memory multiprocessor. (English summary)
— The symmetric tridiagonal eigenproblem on a shared memory multiprocessor. II. (English summary)
— (*with* Wright, Ken) Parallel algorithms for reduction of a general matrix to upper Hessenberg form on a shared memory multiprocessor. (English summary) **2005m:65081**
Khazal, Reyadh R. *see* **Chawla, Man M.**, (2005m:00008)
Kodiyalam, Sanjay *see* **Nakano, Aiichiro et al.**, (2005c:81001)
Kohout, Josef (*with* Kolingerová, Ivana; Žára, Jiří) Parallel Delaunay triangulation in E^2 and E^3 for computers with shared memory. (English summary)
Kolda, Tamara G. (*with* Torczon, Virginia J.) On the convergence of asynchronous parallel pattern search. (English summary) **2005i:90068**
Kolingerová, Ivana *see* **Kohout, Josef et al.**
Kriemann, R. Parallel $\mathscr{H}$-matrix arithmetics on shared memory systems. (English summary)
Kulibanov, V. N. *see* **Akhmetzyanov, A. V.**, 2005d:76040
Kumar, Bipin *see* **Ratish Kumar, B. V.**, 2005m:65101
Laha, Arijit (*with* Seń, Amitava[2]; Sinha, Bhabani P.) Parallel algorithms for identifying convex and non-convex basis polygons in an image. (English summary) **2005m:65034**
Laitinen, Erkki J. (*with* Lapin, A. V.; Pieskä, J.) Asynchronous domain decomposition methods for solving continuous casting problem. (*see* **2005f:65003**)
Lapin, A. V. *see* **Laitinen, Erkki J. et al.**, (2005f:65003)
Li, Hong Wei[1] Overlapping additive Schwarz methods for distributed memory machines. (Chinese. English summary) **2005d:65230**
Li, Xiao Mei *see* **Wei, Li Feng**, 2005c:65035 *and* **Zhang, Li Lun et al.**, 2005e:65158
Lipavskii, M. V. *see* **Tolstykh, Andrei I. et al.**, (2005b:76005)
Lipnikov, K. (*with* Vasilevskiĭ, Yu. V.) Parallel adaptive solution of the Stokes and Oseen problems on unstructured 3D meshes. (English summary) (*see* **2005b:76005**)
Liu, Xiao Yu[1] (*with* Zhao, Kai[3]; Lu, Jin Fu) A parallel algorithm for the convection diffusion problem. (English summary) **2005h:65137**
Liu, Xing Ping *see* **Sheng, Zhiqiang et al.**, 2005i:65138
Louter-Nool, Margreet (*with* Proot, Michael M. J.) A parallel least-squares spectral element solver for incompressible flow problems on unstructured grids. (English summary) **2005m:65290**
Lu, Jin Fu *see* **Liu, Xiao Yu[1] et al.**, 2005h:65137
Maleknejad, K. (*with* Safdari, H.) Parallel algorithm for solving linear systems arising from PDE and integral equations. (English summary) **2005e:65043**
Marín Beltrán, Mercedes *see* **Galo, José R. et al.**
Mathioudakis, E. N. (*with* Papadopoulou, E. P.; Saridakis, Y. G.) Iterative solution of elliptic collocation systems on a cognitive parallel computer. (English summary) **2005h:65198**
Miellou, Jean-Claude *see* **Spiteri, Pierre et al.**, 2005a:65151
Migallón, Violeta *see* **Arnal, Josep et al.**, 2005d:65082
Milyukova, O. Yu. *see* **Elizarova, T. G.**, (2005b:76005)
Murillo, Maria (*with* Cai, Xiao-Chuan) A fully implicit parallel algorithm for simulating the non-linear electrical activity of the heart. (English summary) **2005f:65123**
Nakano, Aiichiro (*with* Campbell, Timothy J.; Kalia, Rajiv K.; Kodiyalam, Sanjay; Ogata, Shuji; Shimojo, Fuyuki; Su, Xiaotao; Vashishta, Priya) Scalable multiresolution algorithms for classical and quantum molecular dynamics simulations of nanosystems. (*see* **2005c:81001**)
Nashunbuhe (*with* Su, Zhi Xun) AGE-3 numerical parallel method for a nonlinear evolution equation. (Chinese. English and Chinese summaries)
Ogata, Shuji *see* **Nakano, Aiichiro et al.**, (2005c:81001)
Papadopoulou, E. P. *see* **Mathioudakis, E. N. et al.**, 2005h:65198
Pemmaraju, Sriram V. *see* **Heath, Lenwood S. et al.**, 2005h:65077
Penadés, José *see* **Arnal, Josep et al.**, 2005d:65082
Perea, Carmen *see* **Climent, Joan-Josep et al.**, 2005e:65034
Pieskä, J. *see* **Laitinen, Erkki J. et al.**, (2005f:65003)
Popoviciu, Ioan Parallel methods for solving the linear algebraic systems. (English summary) **2005k:65058**
Proot, Michael M. J. *see* **Louter-Nool, Margreet**, 2005m:65290
Ranilla, José *see* **Alonso, Pedro et al.**, 2005g:65045
Ratish Kumar, B. V. (*with* Kumar, Bipin) On the development of parallel sparse CGM solver for CFD computations on Anu-cluster. (English summary) **2005m:65101**
Ribbens, C. J. *see* **Heath, Lenwood S. et al.**, 2005h:65077
Safdari, H. *see* **Maleknejad, K.**, 2005e:65043
Saridakis, Y. G. *see* **Mathioudakis, E. N. et al.**, 2005h:65198
Scott, Jennifer A. Parallel frontal solvers for large sparse linear systems. (English summary) **2005b:65053**
— *see also* **Duff, Iain S.**, 2005b:65052
Segal, August *see* **Vermolen, Fred J. et al.**, (2005j:65003)
Seń, Amitava[2] *see* **Laha, Arijit et al.**, 2005m:65034
Shaidurov, V. V. (*with* Shchepanovskaya, G. I.) Solution to viscous heat-conductive gas equations based on multiprocessor computer system. (*see* **2005i:65006**)
Shchepanovskaya, G. I. *see* **Shaidurov, V. V.**, (2005i:65006)
Shen, Long Jun *see* **Zhou, Yu Lin[1] et al.**, 2005c:65078
Sheng, Zhiqiang (*with* Liu, Xing Ping; Cui, Xia) Domain decomposition algorithm for the parabolic equation with variable coefficient. (English summary) **2005i:65138**
Shimojo, Fuyuki *see* **Nakano, Aiichiro et al.**, (2005c:81001)
Sinha, Bhabani P. *see* **Laha, Arijit et al.**, 2005m:65034
Song, Jun Qiang *see* **Zhang, Li Lun et al.**, 2005e:65158
Spiteri, Pierre (*with* Miellou, Jean-Claude; El Baz, Didier) Parallel asynchronous Schwarz and multisplitting methods for a nonlinear diffusion problem. (English summary) **2005a:65151**
Starikovičius, V. *see* **Čiegis, Raimondas et al.**, (2005c:65004)

Stefanica, Dan Parallel FETI algorithms for mortars. (English summary)
Su, Xiaotao *see* **Nakano, Aiichiro et al.**, (2005c:81001)
Su, Zhi Xun *see* **Nashunbuhe**
Szakacs, Laura (*with* Chiorean, Ioana) Automatic derivation of a systolic algorithm for sequences comparison. (English summary)
Tan, Chih Jeng Kenneth *see* **Dixon, Matthew F., 2005k:65169**
Tolstykh, Andrei I. (*with* Lipavskii, M. V.; Chigerev, E. N.) On arbitrary-order schemes for parallel CFD calculations. (English summary) (*see* **2005b:76005**)
Torczon, Virginia J. *see* **Kolda, Tamara G., 2005i:90068**
Tortosa, Leandro *see* **Climent, Joan-Josep et al., 2005e:65034**
Tynda, A. N. *see* **Boĭkov, I. V.**, (2005i:65006)
Uçar, Bora (*with* Aykanat, Cevdet) Encapsulating multiple communication-cost metrics in partitioning sparse rectangular matrices for parallel matrix-vector multiplies. (English summary) **2005g:05092**
Utard, Gil *see* **Caron, Eddy, 2005a:65028**
Vashishta, Priya *see* **Nakano, Aiichiro et al.**, (2005c:81001)
Vasilevskiĭ, Yu. V. *see* **Lipnikov, K.**, (2005b:76005)
Vermolen, Fred J. (*with* Vuik, Kees; Segal, August) Deflation acceleration parallel preconditioned conjugate gradient method in finite element problems. (English summary) (*see* **2005j:65003**)
Voss, D. A. Fourth-order parallel Rosenbrock formulae for stiff systems. (English summary) **2005m:65144**
Vuik, Kees *see* **Vermolen, Fred J. et al.**, (2005j:65003)
Wakatani, Akiyoshi A parallel and scalable algorithm for ADI method with pre-propagation and message vectorization. (English summary)
Wang, Wen Qia A class of alternating segment Crank-Nicolson methods for solving convection-diffusion equations. (English summary) **2005g:65128**
Waśniewski, Jerzy *see* **Čiegis, Raimondas et al.**, (2005c:65004)
Wei, Li Feng (*with* Li, Xiao Mei) Parallel divide and conquer algorithm with multisection for real symmetric band generalized eigenvalue problems. (Chinese. English summary) **2005c:65035**
Wright, Ken *see* **Kaya, Doğan, 2005m:65081**
Yuan, Dong Jing On the convergence of the discretized parallel chaotic waveform relaxation method. (English summary) **2005a:65062**
Yuan, Guangwei *see* **Zhou, Yu Lin[1] et al., 2005c:65078**
Zamora, Antonio *see* **Climent, Joan-Josep et al., 2005e:65034**
Žára, Jiří *see* **Kohout, Josef et al.**
Zhang, Li Lun (*with* Song, Jun Qiang; Li, Xiao Mei) Semi-implicit discretization of 2-D shallow water equations based on spectral element method and its parallel computing. (Chinese. English summary) **2005e:65158**
Zhao, Kai[3] *see* **Liu, Xiao Yu[1] et al., 2005h:65137**
Zhou, Yu Lin[1] (*with* Shen, Long Jun; Yuan, Guangwei) Unconditional stable difference methods with intrinsic parallelism for semilinear parabolic systems of divergence type. (English summary) **2005c:65078**
Ziavras, Sotirios G. *see* **Haridas, Satchidanand G.**

65Y15 Packaged methods

Items with secondary classifications in 65Y15

Hu, Chang Song Iterative approximation problems of fixed points for asymptotically nonexpansive type mappings in Banach spaces. (Chinese. English and Chinese summaries)
Žilinskas, Julius Comparison of packages for interval arithmetic. (English and Lithuanian summaries) **2005m:65104**

65Y20 Complexity and performance of numerical algorithms [see also 68Q25]

Babuška, Ivo (*with* Oden, J. Tinsley) Verification and validation in computational engineering and science: basic concepts. (English summary)
Bhowmick, S. (*with* McInnes, L.; Norris, B.; Raghavan, Padma) The role of multi-method linear solvers in PDE-based simulations. (English summary) (*see* **2005g:65008**)
Davison, Matt *see* **Doeschl, Andrea et al., 2005h:65278**
Didier, Laurent-Stéphane (*with* Rico, Fabien) High radix BKM algorithm. (English summary)
Dixon, Matthew F. *see* **Tan, Chih Jeng Kenneth et al.**, (2005g:65008)
Doeschl, Andrea (*with* Davison, Matt; Rasmussen, Henning; Reid, Gregory John) Assessing cellular automata based models using partial differential equations. (English summary) **2005h:65278**
Hagan, David *see* **Tan, Chih Jeng Kenneth et al.**, (2005g:65008)
McInnes, L. *see* **Bhowmick, S. et al.**, (2005g:65008)
Norris, B. *see* **Bhowmick, S. et al.**, (2005g:65008)
Oden, J. Tinsley *see* **Babuška, Ivo**
Raghavan, Padma *see* **Bhowmick, S. et al.**, (2005g:65008) *and* **Teranishi, Keita et al.**, (2005g:65008)
Rasmussen, Henning *see* **Doeschl, Andrea et al., 2005h:65278**
Reid, Gregory John *see* **Doeschl, Andrea et al., 2005h:65278**
Rico, Fabien *see* **Didier, Laurent-Stéphane**
Tan, Chih Jeng Kenneth (*with* Hagan, David; Dixon, Matthew F.) A performance comparison of matrix solvers on Compaq Alpha, Intel Itanium, and Intel Itanium II processors. (English summary) (*see* **2005g:65008**)
Teranishi, Keita (*with* Raghavan, Padma; Yang, Chao[2]) Time-memory trade-offs using sparse matrix methods for large-scale eigenvalue problems. (English summary) (*see* **2005g:65008**)
Yang, Chao[2] *see* **Teranishi, Keita et al.**, (2005g:65008)

Items with secondary classifications in 65Y20

Aksoylu, Burak (*with* Bond, Stephen D.; Holst, M. J.) An odyssey into local refinement and multilevel preconditioning. III. Implementation and numerical experiments. (English summary) **2005i:65204**
Bai, Yan Qin (*with* El Ghami, M.; Roos, Cornelis) A comparative study of kernel functions for primal-dual interior-point algorithms in linear optimization. (English summary) **2005h:90065**
Binev, Petăr G. (*with* Dahmen, Wolfgang; DeVore, Ronald) Adaptive finite element methods with convergence rates. (English summary) **2005d:65222**
Bischof, Christian H. (*with* Bücker, H. Martin; Rasch, Arno) Sensitivity analysis of turbulence models using automatic differentiation. (English summary) **2005i:76069**
Bond, Stephen D. *see* **Aksoylu, Burak et al., 2005i:65204**
Brugnano, Luigi (*with* Magherini, Cecilia) The BiM code for the numerical solution of ODEs. (English summary) **2005d:65108**
Bücker, H. Martin *see* **Bischof, Christian H. et al., 2005i:76069**
Bürgisser, Peter (*with* Cucker, Felipe) Counting complexity classes for numeric computations. II. Algebraic and semialgebraic sets. (English summary) **2005j:68035**
Chernov, Nikolai I. (*with* Lesort, C.; Simányi, Nándor) On the complexity of curve fitting algorithms. (English summary) **2005b:65012**
Cheung, Dennis (*with* Cucker, Felipe; Ye, Yinyu) Linear programming and condition numbers under the real number computation model. **2005f:90063**
Čiegis, Raimondas (*with* Starikovičius, V.; Waśniewski, Jerzy) Performance prediction tool for parallel Gaussian elimination algorithm. (English summary) (*see* **2005c:65004**)
Cucker, Felipe *see* **Cheung, Dennis et al., 2005f:90063** *and* **Bürgisser, Peter, 2005j:68035**
Dahmen, Wolfgang *see* **Binev, Petăr G. et al., 2005d:65222**
DeVore, Ronald *see* **Binev, Petăr G. et al., 2005d:65222**
Dontchev, Asen L. (*with* Rockafellar, R. Tyrrell) Regularity and conditioning of solution mappings in variational analysis. (English summary) **2005d:49031**
El Ghami, M. *see* **Bai, Yan Qin et al., 2005h:90065**
Gu, Gui Ding (*with* Zhu, Wen Yue) Seed projection methods for solving unsymmetric shifted systems with multiple right-hand sides. (Chinese. English summary) **2005m:65059**
Hickernell, Fred J. (*with* Sloan, Ian H.; Wasilkowski, Grzegorz W.) On tractability of weighted integration for certain Banach spaces of functions. (English summary) (*see* **2005b:65002**)
— (*with* Sloan, Ian H.; Wasilkowski, Grzegorz W.) The strong tractability of multivariate integration using lattice rules. (English summary) (*see* **2005b:65002**)
— (*with* Sloan, Ian H.; Wasilkowski, Grzegorz W.) On tractability of weighted integration over bounded and unbounded regions in $\mathbb{R}^s$. (English summary) **2005c:65018**
— (*with* Sloan, Ian H.; Wasilkowski, Grzegorz W.) On strong tractability of weighted multivariate integration. (English summary) **2005c:65019**
Holst, M. J. *see* **Aksoylu, Burak et al., 2005i:65204**
Jeannerod, Claude-Pierre (*with* Villard, Gilles) Essentially optimal computation of the inverse of generic polynomial matrices. (English summary) **2005k:15010**
Kacewicz, Bolesław Asymptotic setting (revisited): analysis of a boundary-value problem and a relation to a classical approximation result. (English summary) **2005h:65108**
Keyes, David E. Domain decomposition in the mainstream of computational science. (*see* **2005f:65003**)
Kong, Rong *see* **Spanier, Jerome**, (2005b:65002)
Kwas, Marek (*with* Li, Youming[1]) Worst case complexity of multivariate Feynman-Kac path integration. (English summary) **2005g:65039**
Lesort, C. *see* **Chernov, Nikolai I. et al., 2005b:65012**
Li, Youming[1] *see* **Kwas, Marek, 2005g:65039**
Magherini, Cecilia *see* **Brugnano, Luigi, 2005d:65108**
Nieslony, Arthur *see* **Potts, Daniel et al., 2005f:65184**
Petzold, Linda R. *see* **Rathinam, Muruhan, 2005b:37204**
Potts, Daniel (*with* Steidl, Gabriele; Nieslony, Arthur) Fast convolution with radial kernels at nonequispaced knots. (English summary) **2005f:65184**
Rasch, Arno *see* **Bischof, Christian H. et al., 2005i:76069**
Rathinam, Muruhan (*with* Petzold, Linda R.) A new look at proper orthogonal decomposition. (English summary) **2005b:37204**
Rockafellar, R. Tyrrell *see* **Dontchev, Asen L., 2005d:49031**
Roos, Cornelis *see* **Bai, Yan Qin et al., 2005h:90065**
Simányi, Nándor *see* **Chernov, Nikolai I. et al., 2005b:65012**
Sloan, Ian H. (*with* Woźniakowski, Henryk) When does Monte Carlo depend polynomially on the number of variables? (English summary) (*see* **2005b:65002**)
— *see also* **Hickernell, Fred J. et al., 2005c:65018; 2005c:65019; (2005b:65002)** *and* **(2005b:65002)**
Spanier, Jerome (*with* Kong, Rong) A new adaptive method for geometric convergence. (English summary) (*see* **2005b:65002**)
Starikovičius, V. *see* **Čiegis, Raimondas et al.**, (2005c:65004)
Steidl, Gabriele *see* **Potts, Daniel et al., 2005f:65184**
Suttmeier, F. T. Reliable, goal-oriented postprocessing for FE-discretizations. (English summary) **2005j:65149**
Villard, Gilles *see* **Jeannerod, Claude-Pierre, 2005k:15010**
Wasilkowski, Grzegorz W. (*with* Woźniakowski, Henryk) Finite-order weights imply tractability of linear multivariate problems. (English summary) **2005d:41048**
— *see also* **Hickernell, Fred J. et al., 2005c:65018; 2005c:65019; (2005b:65002)** *and* **(2005b:65002)**
Waśniewski, Jerzy *see* **Čiegis, Raimondas et al.**, (2005c:65004)
Woźniakowski, Henryk *see* **Wasilkowski, Grzegorz W., 2005d:41048** *and* **Sloan, Ian H.**, (2005b:65002)
Ye, Yinyu *see* **Cheung, Dennis et al., 2005f:90063**
Zhu, Wen Yue *see* **Gu, Gui Ding, 2005m:65059**

65Y99 None of the above, but in this section

Binev, Petăr G. (*with* DeVore, Ronald) Fast computation in adaptive tree approximation. (English summary) **2005e:65223**
DeVore, Ronald *see* **Binev, Petăr G., 2005e:65223**
Frolova, Yu. V. *see* **Korobitsyn, V. V.**
Kalman, Dan Doubly recursive multivariate automatic differentiation. **2005e:65224**

Korobitsyn, V. V. (*with* Frolova, Yu. V.) ★ Численные методы и программирование. (Russian) [Numerical methods and programming]

Smoktunowicz, Alicja (*with* Wróbel, Iwona) On improving the accuracy of Horner's and Goertzel's algorithms. (English summary) **2005m:65325**

Wróbel, Iwona *see* **Smoktunowicz, Alicja**, **2005m:65325**

Items with secondary classifications in 65Y99

Do, Dang-Khoa Spigot algorithm and reliable computation of natural logarithm. (English summary) **2005f:65027**

65Z05 Applications to physics

Misner, Charles W. Spherical harmonic decomposition on a cubic grid. (English summary) **2005b:65156**

68–XX Computer science {For papers involving machine computations and programs in a specific mathematical area, see Section –04 in that area.}

68–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

(Arbib, Michael A.) *see* **Handbook of brain theory and neural networks, 2005m:68002**
(Mehta, Dinesh P.) *see* **Handbook of data structures and applications, 2005m:68003**
(Meyer, John-Jules Ch.) *see* **Agent-based defeasible control in dynamic environments, 2005d:68001**
(Sahni, Sartaj) *see* **Handbook of data structures and applications, 2005m:68003**
(Singh, Munindar P.) *see* **Practical handbook of internet computing**
(Treur, Jan) *see* **Agent-based defeasible control in dynamic environments, 2005d:68001**
(Tucker, Allen B.) *see* **Computer science handbook, 2005m:68001**

Items listed otherwise than by author

Agent-based defeasible control in dynamic environments ★ Agent-based defeasible control in dynamic environments. **2005d:68001**
Computer science handbook ★ Computer science handbook. **2005m:68001**
Handbook of brain theory and neural networks ★ The handbook of brain theory and neural networks. **2005m:68002**
Handbook of data structures and applications ★ Handbook of data structures and applications. **2005m:68003**
Practical handbook of internet computing ★ The practical handbook of internet computing.

Items with secondary classifications in 68–00

(Martín-Vide, Carlos) *see* **Formal languages and applications, 2005g:68088**
(Mitrana, Victor) *see* **Formal languages and applications, 2005g:68088**
(Păun, Gheorghe) *see* **Formal languages and applications, 2005g:68088**

Items listed otherwise than by author

Formal languages and applications ★ Formal languages and applications. **2005g:68088**

68–01 Instructional exposition (textbooks, tutorial papers, etc.)

Clote, Peter (*with* Kranakis, Evangelos) ★ Boolean functions and computation models. **2005d:68002**
Huth, Michael R. A. (*with* Ryan, Mark) ★ Logic in computer science. **2005d:68003**
Kranakis, Evangelos *see* **Clote, Peter, 2005d:68002**
Lassaigne, Richard (*with* de Rougemont, Michel) ★ Logic and complexity. **2005k:68001**
Papadimitriou, Christos H. ★ Turing. **2005h:68001**
de Rougemont, Michel *see* **Lassaigne, Richard, 2005k:68001**
Ryan, Mark *see* **Huth, Michael R. A., 2005d:68003**
(Turing, Alan Mathison) *see* **Papadimitriou, Christos H., 2005h:68001**
Zomorodian, Afra J. ★ Topology for computing. **2005i:68001**

Items with secondary classifications in 68–01

Benenti, Giuliano (*with* Casati, Giulio; Strini, Giuliano) ★ Principles of quantum computation and information. Vol. I. **2005f:81038**
Casati, Giulio *see* **Benenti, Giuliano et al., 2005f:81038**
Enns, Richard H. ★ Computer algebra recipes for mathematical physics. **2005f:00001**
Humphreys, J. F. (*with* Prest, M. Y.) ★ Numbers, groups and codes. **2005d:00002**
Košecká, Jana *see* **Ma, Yi² et al., 2005a:68198**
Ma, Yi² (*with* Soatto, Stefano; Košecká, Jana; Sastry, S. Shankar) ★ An invitation to 3-D vision. **2005a:68198**
Prest, M. Y. *see* **Humphreys, J. F., 2005d:00002**
Sastry, S. Shankar *see* **Ma, Yi² et al., 2005a:68198**
Soatto, Stefano *see* **Ma, Yi² et al., 2005a:68198**
Strini, Giuliano *see* **Benenti, Giuliano et al., 2005f:81038**

68–02 Research exposition (monographs, survey articles)

Abdeljaoued, Jounaïdi (*with* Lombardi, Henri) ★ Méthodes matricielles: introduction à la complexité algébrique. (French) [Matrix methods: introduction to algebraic complexity] **2005c:68001**
Balakirsky, Stephen B. ★ A framework for planning with incrementally created graphs in attributed problem spaces. (English summary) **2005k:68002**
(van Breugel, Franck) *see* **Rutten, J. J. M. M. et al., 2005d:68004**
(Chen, Dechang) *see* **Pattern recognition and string matching, 2005b:68003**
(Cheng, Xiuzhen) *see* **Pattern recognition and string matching, 2005b:68003**
Crochemore, Maxime (*with* Rytter, Wojciech) ★ Jewels of stringology. **2005b:68001**
(Dodgson, Neil A.) *see* **Advances in multiresolution for geometric modelling, 2005j:68003**
Dömösi, Pál (*with* Nehaniv, Chrystopher L.) ★ Algebraic theory of automata networks. **2005m:68004**
(Floater, Michael S.) *see* **Advances in multiresolution for geometric modelling, 2005j:68003**
Halpern, Joseph Y. ★ Reasoning about uncertainty. **2005h:68002**
(Herzog, Otthein) *see* **Balakirsky, Stephen B., 2005k:68002**
Ito, Masami[1] ★ Algebraic theory of automata and languages. **2005f:68001**
Kelarev, Andrei V. ★ Graph algebras and automata. **2005e:68001**
Kwiatkowska, Marta *see* **Rutten, J. J. M. M. et al., 2005d:68004**
Levinson, Stephen E. ★ Mathematical models for speech technology. **2005j:68001**
(Loia, Vincenzo) *see* **Fuzzy logic and the internet, 2005b:68002**
Lombardi, Henri *see* **Abdeljaoued, Jounaïdi, 2005c:68001**
Nehaniv, Chrystopher L. *see* **Dömösi, Pál, 2005m:68004**
(Nikravesh, Masoud) *see* **Fuzzy logic and the internet, 2005b:68002**
Norman, Gethin *see* **Rutten, J. J. M. M. et al., 2005d:68004**
(Panangaden, Prakash) *see* **Rutten, J. J. M. M. et al., 2005d:68004**
(Papadimitriou, Christos H.) *see* **Vempala, Santosh S., 2005j:68002**
Parker, David *see* **Rutten, J. J. M. M. et al., 2005d:68004**
Rutten, J. J. M. M. (*with* Kwiatkowska, Marta; Norman, Gethin; Parker, David) ★ Mathematical techniques for analyzing concurrent and probabilistic systems. **2005d:68004**
Rytter, Wojciech *see* **Crochemore, Maxime, 2005b:68001**
(Sabin, Malcolm A.) *see* **Advances in multiresolution for geometric modelling, 2005j:68003**
Vempala, Santosh S. ★ The random projection method. **2005j:68002**
Wang, Dongming ★ Elimination practice. **2005a:68001**
(Zadeh, Lotfi A.) *see* **Fuzzy logic and the internet, 2005b:68002**
Zimand, Marius ★ Computational complexity: a quantitative perspective. **2005m:68005**

Items listed otherwise than by author

Advances in multiresolution for geometric modelling ★ Advances in multiresolution for geometric modelling. **2005j:68003**
Cambridge ★ Advances in multiresolution for geometric modelling. **2005j:68003**
Fuzzy logic and the internet ★ Fuzzy logic and the internet. **2005b:68002**
Mathematical techniques for analyzing concurrent and probabilistic systems *see* **Rutten, J. J. M. M. et al., 2005d:68004**
Pattern recognition and string matching ★ Pattern recognition and string matching. **2005b:68003**

Items with secondary classifications in 68–02

Alla, Hassane *see* **David, René Marcel, 2005k:68148**
David, René Marcel (*with* Alla, Hassane) ★ Discrete, continuous, and hybrid Petri nets. **2005k:68148**
(Drechsler, Rolf) *see* **Advanced formal verification, 2005i:94027**
(Faugeras, Olivier) *see* **Hartley, Richard, 2005b:68251**
Hartley, Richard (*with* Zisserman, Andrew) ★ Multiple view geometry in computer vision. **2005b:68251**
Košecká, Jana *see* **Ma, Yi² et al., 2005a:68198**
Kovacs, Tim ★ Strength or accuracy: credit assignment in learning classifier systems. **2005k:68171**
(Krajíček, Jan) *see* **Complexity of computations and proofs, 2005j:68005**
Levy, Paul Blain ★ Call-by-push-value. **2005d:68081**
Ma, Yi² (*with* Soatto, Stefano; Košecká, Jana; Sastry, S. Shankar) ★ An invitation to 3-D vision. **2005a:68198**
McIver, Annabelle (*with* Morgan, Carroll C.) ★ Abstraction, refinement and proof for probabilistic systems. **2005h:68095**
Morgan, Carroll C. *see* **McIver, Annabelle, 2005h:68095**
Nishizeki, Takao (*with* Rahman, Md. Saidur) ★ Planar graph drawing. **2005k:68161**
Rahman, Md. Saidur *see* **Nishizeki, Takao, 2005k:68161**
Sastry, S. Shankar *see* **Ma, Yi² et al., 2005a:68198**
Shackell, John R. ★ Symbolic asymptotics. **2005i:68094**
(Silva, Manuel) *see* **David, René Marcel, 2005k:68148**
Soatto, Stefano *see* **Ma, Yi² et al., 2005a:68198**
Terwijn, S. A. Complexity and randomness. (English summary) **2005k:68102**
Truemper, Klaus ★ Design of logic-based intelligent systems. **2005e:68210**
Williamson, Jon ★ Bayesian nets and causality. **2005k:68198**
Zisserman, Andrew *see* **Hartley, Richard, 2005b:68251**

Items listed otherwise than by author

Advanced formal verification ★ Advanced formal verification. **2005i:94027**
Complexity of computations and proofs ★ Complexity of computations and proofs. **2005j:68005**

68–03 Historical (must also be assigned at least one classification number from Section 01)

(Aiken, Howard) *see* **Copeland, B. Jack**
(Berkeley, Edmund) *see* **Longo, Bernadette**
Copeland, B. Jack Unfair to Aiken. (English summary)
— Colossus: its origins and originators. (English summary)
Galindo Tixaire, Alberto Between zero and one: the art of computing. (Spanish) **2005f:68002**
Gillies, Donald A. Logicism and the development of computer science. (English summary) **2005g:68001**
Hügli, Heinz *see* **Piguet, Christian, 2005f:68003**
(Kantorovich, Leonid Vital'evich) *see* **Kantorovich, V. L.**
Kantorovich, V. L. Some facts related to the papers by L. V. Kantorovich reproduced in this issue. (Russian)
Longo, Bernadette Edmund Berkeley, computers, and modern methods of thinking. (English summary)
(de Micheli, Giovanni) *see* **Piguet, Christian, 2005f:68003**
Piguet, Christian (*with* Hügli, Heinz) ★ Du zéro à l'ordinateur. (French) [From zero to the computer] **2005f:68003**
Plotkin, Gordon D. The origins of structural operational semantics. (English summary) **2005e:68002**
— A structural approach to operational semantics. **2005e:68003**

Items listed otherwise than by author

Biography:
Berkeley, Edmund Callis *see* **Longo, Bernadette**

Items with secondary classifications in 68–03

Attie, Paul C. *see* **Goldin, Dina Q. et al., 2005k:68045**
(Augier, Mie) *see* **Models of a man, 2005f:00007**

Belanger, Jay (*with* Stein, Dorothy) Shadowy vision: spanners in the mechanization of mathematics. (English and French summaries) **2005j:01009**
Copeland, B. Jack Hypercomputation: philosophical issues. (English summary) **2005b:03012**
Drygalla, Volker *see* **Zielke, Gerhard**, **2005d:65069**
(Fet, Ya. I.) *see* **Alekseĭ Andreevich Lyapunov**, **2005a:01023** *and* **Kolmogorov and cybernetics**, **2005a:94001**
Goldin, Dina Q. (*with* Smolka, Scott A.; Attie, Paul C.; Sonderegger, Elaine L.) Turing machines, transition systems, and interaction. (English summary) **2005k:68045**
González de Posada, Francisco (*with* González Redondo, Francisco A.) Leonardo Torres Quevedo (1852–1936). I. Algebraic machines. (Spanish)
González Redondo, Francisco A. *see* **González de Posada, Francisco**
Knuth, Donald E. ★ Selected papers on computer languages. **2005b:68045**
(Kolmogorov, Andreĭ Nikolaevich) *see* **Kolmogorov and cybernetics**, **2005a:94001**
(Kowalski, Robert A.) *see* **Sergot, Marek**, (**2005f:68005a**)
(Lyapunov, Alekseĭ Andreevich) *see* **Alekseĭ Andreevich Lyapunov**, **2005a:01023**
(Lyapunova, N. A.) *see* **Alekseĭ Andreevich Lyapunov**, **2005a:01023**
MacKenzie, Donald ★ Mechanizing proof. **2005f:03019**
(March, James G.) *see* **Models of a man**, **2005f:00007**
(McCulloch, Warren S.) *see* **Piccinini, Gualtiero**
McIver, Annabelle (*with* Morgan, Carroll C.) ★ Abstraction, refinement and proof for probabilistic systems. **2005h:68095**
Morgan, Carroll C. *see* **McIver, Annabelle**, **2005h:68095**
Papadimitriou, Christos H. ★ Turing. **2005h:68001**
Peng, Yong Dong The early diffusion of cybernetics in China (1929–1966). (Chinese. English and Chinese summaries)
Piccinini, Gualtiero The first computational theory of mind and brain: a close look at W. S. McCulloch and W. Pitts's "A logical calculus of ideas immanent in nervous activity" [Bull. Math. Biophys. **5** (1943), 115–133; MR0010388 (6,12a)]. (English summary)
(Pitts, Walter) *see* **Piccinini, Gualtiero**
(Pospelov, D. A.) *see* **Kolmogorov and cybernetics**, **2005a:94001**
Roos, Cornelis Time will tell. (Dutch)
Rudich, Steven Complexity theory: from Gödel to Feynman.
Sergot, Marek Bob Kowalski: a portrait. (*see* **2005f:68005a**)
(Simon, Herbert A.) *see* **Models of a man**, **2005f:00007**
Smolka, Scott A. *see* **Goldin, Dina Q. et al.**, **2005k:68045**
Sonderegger, Elaine L. *see* **Goldin, Dina Q. et al.**, **2005k:68045**
Stein, Dorothy *see* **Belanger, Jay**, **2005j:01009**
(Torres Quevedo, Leonardo) *see* **González de Posada, Francisco**
(Turing, Alan Mathison) *see* **Papadimitriou, Christos H.**, **2005h:68001**
(Wittgenstein, Ludwig) *see* **Roos, Cornelis**
Zielke, Gerhard (*with* Drygalla, Volker) Genaue Lösung linearer Gleichungssysteme. [A sharp solution of linear systems] **2005d:65069**

Items listed otherwise than by author

Alekseĭ Andreevich Lyapunov ★ Алексей Андреевич Ляпунов. (Russian) [Alekseĭ Andreevich Lyapunov] **2005a:01023**
Biography:
Kowalski, Robert Anthony *see* **Sergot, Marek**, (**2005f:68005a**)
Torres Quevedo, Leonardo *see* **González de Posada, Francisco**
Collected Works:
Knuth, Donald E. *see* **Knuth, Donald E.**, **2005b:68045**
Kolmogorov and cybernetics ★ Колмогоров и кибернетика. (Russian) [Kolmogorov and cybernetics] **2005a:94001**
Models of a man ★ Models of a man. **2005f:00007**
Selected papers on computer languages *see* **Knuth, Donald E.**, **2005b:68045**

68–06 Proceedings, conferences, collections, etc.

Alonso-Jiménez, José Antonio *see* **Laita, Luis M. et al.**
(Alpigini, James J.) *see* **Rough sets and current trends in computing**, **2005c:68011**
Alt, Helmut Foreword [Symposium on Theoretical Aspects of Computer Science].
— *see also* **STACS 2003**, **2005b:68025**
(Álvarez Sánchez, Jóse Ramón) *see* **Artificial neural nets problem solving methods**, **2005a:68006** *and* **Computational methods in neural modeling**, **2005a:68011**
(Amadio, Roberto M.) *see* **CONCUR 2003—concurrency theory**, **2005b:68010**
Anger, Frank D. *see* **Guesgen, Hans W. et al.**
(Apostolico, Alberto) *see* **Combinatorial pattern matching**, **2005a:68009**
(Araki, Keijiro) *see* **FME 2003: formal methods**, **2005b:68013**
(Arora, Sanjeev) *see* **Approximation, randomization, and combinatorial optimization**, **2005b:68007**
Baader, Franz Preface [19th International Conference on Automated Deduction (CADE-19)].
(Baaz, Matthias) *see* **Logic for programming, artificial intelligence, and reasoning**, **2005c:68007**
Bäck, Thomas (*with* Schoenauer, Marc; Willmes, Lars) Preface [Special issue on evolutionary computation].
(Baeten, Jos C. M.) *see* **Automata, languages and programming**, **2005b:68008**
(Baeza-Yates, Ricardo) *see* **Combinatorial pattern matching**, **2005a:68010**
(Barthe, Gilles) *see* **Applied semantics**, **2005b:68006**
(Basin, David) *see* **Theorem proving in higher order logics**, **2005b:68026**
Berthé, Valérie (*with* Bruyère, Véronique) Préface: [Journées Montoises d'Informatique Théorique]. [Preface: [Mons Conference on Theoretical Computer Science]]
(Bertrand, Gilles) *see* **Digital and image geometry**, **2005j:68006**
(Blockeel, Hendrik) *see* **Machine learning: ECML 2003**, **2005c:68008**
(Blundo, Carlo) *see* **Theoretical computer science**, **2005b:68027**
Boiten, Eerke A. (*with* Möller, Bernhard) Foreword [Special issue on mathematics of program construction].
— *see also* **Mathematics of program construction**, **2005b:68021**
Bordim, Jacir L. (*with* Nakano, Koji; Rosenberg, Arnold L.) Foreword. Special Issue: advances in parallel and distributed computational models. Part 1.
(Bose, Prosenjit) *see* **Algorithms and computation**, **2005b:68004**
(Brinksma, Ed) *see* **Computer aided verification**, **2005b:68011**
Bruyère, Véronique *see* **Berthé, Valérie**
Buchholz, Wilfried (*with* Kahle, Reinhard) Preface [Festschrift on the occasion of Helmut Schwichtenberg's 60th birthday].
(Bunker, Annette) *see* **Theorem proving in higher order logics**, **2005m:68012**
Burgin, Mark (*with* Klinger, Allen) Preface: [Super-recursive algorithms and hypercomputation].
(Camacho, Rui) *see* **Inductive logic programming**, **2005m:68010**
(Cesa-Bianchi, Nicolò) *see* **Algorithmic learning theory**, **2005a:68003**
(Chaib-draa, Brahim) *see* **Advances in artificial intelligence**, **2005f:68004**
(Chávez, Edgar) *see* **Combinatorial pattern matching**, **2005a:68010**
(Chen, Fa-Lai) *see* **Geometric computation**, **2005c:68006**
Ciobanu, Gabriel (*with* Paprzycki, Marcin; Rahimi, Shahram) Information society—foreword to the special issue [Agent based computing].
(Conejo, Ricardo) *see* **Automata, languages and programming**, **2005a:68008**
Corradini, Flavio (*with* Nestmann, Uwe) Editorial [Expressiveness in concurrency].
(Crochemore, Maxime) *see* **Combinatorial pattern matching**, **2005a:68010**
Csuhaj-Varjú, Erzsébet (*with* Wotschke, Detlef) Preface [Descriptional complexity of formal systems].
Cussens, James (*with* Frisch, Alan M.) Introduction to the special issue on inductive logic programming.
(Dehne, Frank) *see* **Algorithms and data structures**, **2005b:68005**
Delrieux, Claudio (*with* Pereira, Luís Moniz) Special issue arising from the Third International Workshop on Computational Models of Scientific Reasoning and Applications.
(Dershowitz, Nachum) *see* **Verification: theory and practice**, **2005d:68014**
(Di Battista, Giuseppe) *see* **Algorithms—ESA 2003**, **2005c:68003**
(Diekert, Volker) *see* **STACS 2004**, **2005d:68012**
(Diks, Krzysztof) *see* **Mathematical foundations of computer science 2002**, **2005b:68019**
Dix, Jürgen (*with* Leite, João Alexandre; Satoh, Ken) Introduction [Special issue on computational logic in multi-agent systems II].
(Domaratzki, Michael) *see* **Implementation and application of automata**, **2005m:68009**
(Dongarra, Jack J.) *see* **Parallel processing and applied mathematics**, **2005d:68011**
Drmota, Michael (*with* Szpankowski, Wojciech) Special issue on analysis of algorithms [8th Seminar].
(Dybjer, Peter) *see* **Applied semantics**, **2005b:68006**
Edalat, Abbas (*with* Jung, Achim) Introduction to special issue on domain theory.
(Eidenbenz, Stephan) *see* **Automata, languages and programming**, **2005a:68008**
Ellman, Thomas (*with* Giunchiglia, Fausto) Introduction to the special volume on reformulation.
Ésik, Zoltán (*with* Walukiewicz, Igor) Foreword [Selected papers from the Workshop Fixed Points in Computer Science 2003 (FICS'03)].
Faltings, Boi (*with* Yokoo, Makoto) Introduction: Special issue on distributed constraint satisfaction.
(Farach-Colton, Martín) *see* **LATIN 2004: Theoretical informatics**, **2005d:68010**
(Fiala, Jiří) *see* **Mathematical foundations of computer science 2004**, **2005m:68011**
(Fich, Faith Ellen) *see* **Distributed computing**, **2005a:68013**
(Franco, John) *see* **Theory and applications of satisfiability testing**
Frisch, Alan M. *see* **Cussens, James**
(Fulcher, John) *see* **Applied intelligent systems**, **2005j:68004**
(Gamberger, Dragan) *see* **Machine learning: ECML 2003**, **2005c:68008**
(Gámez, José A.) *see* **Advances in Bayesian networks**
(Gavaldà, Ricard) *see* **Algorithmic learning theory**, **2005a:68004**
(Geuvers, Herman) *see* **Types for proofs and programs**, **2005a:68017**
Giunchiglia, Fausto *see* **Ellman, Thomas**
(Gnesi, Stefania) *see* **FME 2003: formal methods**, **2005b:68013**
(Gonnet, Gastón H.) *see* **LATIN 2000: theoretical informatics**, **2005b:68017**
(Goodrich, Michael T.) *see* **Graph drawing**, **2005a:68014**
(Gopalakrishnan, Ganesh) *see* **Theorem proving in higher order logics**, **2005m:68012**
(Gordon, Andrew D.) *see* **Foundations of software science and computation structures**, **2005b:68014**
Gorrieri, Roberto (*with* Martinelli, Fabio) Preface [Theoretical foundations of security analysis and design. II].
Gotsman, Craig (*with* Kobbelt, Leif) Editorial [Special issue on geometry processing].
(Grädel, Erich) *see* **Automata, logics, and infinite games**, **2005b:68009**
Grefenstette, Gregory *see* **Kilgarriff, Adam**
Guesgen, Hans W. (*with* Anger, Frank D.; Ligozat, Gérard; Rodríguez, Rita V.) J.UCS special issue: Spatial and temporal reasoning.
— *see also* **Renz, Jochen**
(Gutierrez, Jaime) *see* **ISSAC 2004**, **2005i:68002**
(Habib, Michel) *see* **STACS 2003**, **2005b:68025** *and* **STACS 2004**, **2005d:68012**
(Harju, Tero) *see* **Proceedings: WORDS'03**, **2005c:68010**
Hasnah, Ahmad M. *see* **Jaoua, Ali et al.**
(Hennessy, Matthew) *see* **Automata, languages and programming**, **2005a:68008**
(Horváth, Tamás[2]) *see* **Inductive logic programming**, **2005b:68016**
(Hunt, Warren A., Jr.) *see* **Computer aided verification**, **2005b:68012**
(Ibaraki, Toshihide) *see* **Algorithms and computation**, **2005c:68004**
(Ibarra, Oscar H.) *see* **Computing and combinatorics**, **2005a:68012**
(Imiya, Atsushi) *see* **Digital and image geometry**, **2005j:68006**
Jaam, Jihad Mohamad *see* **Jaoua, Ali et al.**
(Jain, Lakhmi C.) *see* **Applied intelligent systems**, **2005j:68004**
(Jansen, Klaus) *see* **Approximation, randomization, and combinatorial optimization**, **2005b:68007**; **Approximation and online algorithms**, **2005c:68005** *and* **Approximation algorithms for combinatorial optimization**, **2005d:68005**
(Jantke, Klaus P.) *see* **Algorithmic learning theory**, **2005a:68004**
Jaoua, Ali (*with* Jaam, Jihad Mohamad; Hasnah, Ahmad M.; Sadiq Ali Akbar, Abdulhamid) Preface [Special issue: Information technology. Selected papers from the Inter-

national Arab Conference on Information Technology (ACIT'2002)].
(Johnson, Mark Edward) *see* **Mathematical foundations of speech and language processing, 2005c:68009**
Jung, Achim *see* **Edalat, Abbas**
Jünger, Michael *see* **Mutzel, Petra**
Kahle, Reinhard *see* **Buchholz, Wilfried**
(Kakas, Antonios C.) *see* **Computational logic: logic programming and beyond. Part I, 2005f:68005a** *and* **Computational logic: logic programming and beyond. Part II, 2005f:68005b**
Kapur, Deepak (*with* Vigneron, Laurent) Preface [First-order theorem proving].
(Karhumäki, Juhani) *see* **Proceedings: WORDS'03, 2005c:68010** *and* **Theory is forever, 2005g:68002**
(Katoh, Naoki) *see* **Algorithms and computation, 2005c:68004**
(Kautz, Henry) *see* **Theory and applications of satisfiability testing**
(Khudanpur, Sanjeev P.) *see* **Mathematical foundations of speech and language processing, 2005c:68009**
Kilgarriff, Adam (*with* Grefenstette, Gregory) Introduction to the special issue on the web as corpus. (English summary)
(King, Ross D.) *see* **Inductive logic programming, 2005m:68010**
Klein, Rolf Foreword [Special issue on the 19th European Workshop on Computational Geometry—EuroCG 03].
(Kleine Büning, Hans) *see* **Theory and applications of satisfiability testing**
(Klette, Reinhard) *see* **Digital and image geometry, 2005j:68006**
Klinger, Allen *see* **Burgin, Mark**
(Kłopotek, Mieczysław A.) *see* **Intelligent information processing and web mining, 2005d:68009**
Kobbelt, Leif *see* **Gotsman, Craig**
(Kobourov, Stephen G.) *see* **Graph drawing, 2005a:68014**
(Koubek, Václav) *see* **Mathematical foundations of computer science 2004, 2005m:68011**
(Kowalski, Robert A.) *see* **Computational logic: logic programming and beyond. Part I, 2005f:68005a** *and* **Computational logic: logic programming and beyond. Part II, 2005f:68005b**
(Krajíček, Jan) *see* **Complexity of computations and proofs, 2005j:68005**
(Kratochvíl, Jan) *see* **Mathematical foundations of computer science 2004, 2005m:68011**
(Kučera, Luděk) *see* **Graph-theoretic concepts in computer science, 2005a:68015**
Kutrib, Martin (*with* Margenstern, Maurice; Umeo, Hiroshi) Foreword [Special issue on cellular automata].
Laita, Luis M. (*with* Roanes-Lozano, Eugenio; Alonso-Jiménez, José Antonio) Preface to the special issue of RACSAM devoted to "Symbolic computation in logic and artificial intelligence".
(Laneve, Cosimo) *see* **Theoretical computer science, 2005b:68027**
(Larsen, Kim Guldstrand) *see* **Computer aided verification, 2005b:68011**
(Lavrač, Nada) *see* **Machine learning: ECML 2003, 2005c:68008**
(van Leeuwen, Jan) *see* **Automata, languages and programming, 2005a:68007**
Leite, João Alexandre *see* **Dix, Jürgen et al.**
(Lenstra, Jan Karel) *see* **Automata, languages and programming, 2005b:68008**
Lenzerini, Maurizio Preface [Papers from the Ninth International Conference on Database Theory (ICDT'03)].
(Leonardi, Stefano) *see* **Approximation algorithms for combinatorial optimization, 2005d:68005**
Leuschel, Michael (*with* Podelski, Andreas; Ramakrishnan, C. R.; Ultes-Nitsche, Ulrich) Introduction to the special issue on verification and computational logic.
(Levi, Giorgio) *see* **Verification, model checking, and abstract interpretation, 2005d:68013**
(Lifschitz, Vladimir) *see* **Logic programming and nonmonotonic reasoning, 2005b:68018**
Ligozat, Gérard *see* **Guesgen, Hans W. et al.**
Lilius, Johan (*with* Østerbye, Kasper) Guest editors' foreword: Programming and software development environment research in the Nordic countries.
(Lingas, Andrzej) *see* **Fundamentals of computation theory, 2005b:68015**
Liotta, Giuseppe (*with* Tollis, Ioannis G.) Advances in graph algorithms [Special Issue on Selected Papers from the Seventh International Workshop on Algorithms and Data Structures, WADS 2001]: guest editors' foreword.
(Liu, Qing[3]) *see* **Rough sets, fuzzy sets, data mining, and granular computing, 2005b:68024**
(Lodaya, Kamal) *see* **FSTTCS 2004: Foundations of software technology and theoretical computer science, 2005m:68007**
Lodi, Elena (*with* Pagli, Linda; Santoro, Nicola) Preface: Fun with algorithms [Combinatorial algorithms, optimization and computer science].
(Lomuscio, Alessio) *see* **Deontic logic in computer science, 2005d:68007**
de Luca, Aldo (*with* Mignosi, Filippo; Perrin, Dominique; Rozenberg, Grzegorz) Preface [The art of theory].
(Lugiez, Denis) *see* **CONCUR 2003—concurrency theory, 2005b:68010**
(van Maaren, Hans) *see* **Theory and applications of satisfiability testing**
(Mahajan, Meena) *see* **FSTTCS 2004: Foundations of software technology and theoretical computer science, 2005m:68007**
(Mandrioli, Dino) *see* **FME 2003: formal methods, 2005b:68013**
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(Möhring, Rolf H.) *see* **Algorithms—ESA 2002, 2005c:68002**
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(Moral, Serafín) *see* **Advances in Bayesian networks**
(Morales-Bueno, Rafael) *see* **Automata, languages and programming, 2005a:68008**
(Morin, Pat) *see* **Algorithms and computation, 2005b:68004**
Mount, David M. Editorial [Special issue on the 19th Annual Symposium on Computational Geometry].
Mutzel, Petra (*with* Jünger, Michael) Advances in graph drawing. Special issue on selected papers from the Ninth International Symposium on Graph Drawing, GD 2001: guest editors' foreword.
Nakano, Koji *see* **Bordim, Jacir L. et al.**
Nestmann, Uwe (*with* Victor, Björn) Guest editors' introduction: special issue on the π-calculus.
— *see also* **Corradini, Flavio**
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(Parrow, Joachim) *see* **Automata, languages and programming, 2005b:68008**
(Păun, Gheorghe) *see* **Theory is forever, 2005g:68002**
Peleg, David (*with* Sibeyn, Jop F.) Preface [Structural information and communication complexity].
(Penttonen, Martti) *see* **Algorithm theory—SWAT 2002, 2005a:68002**
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(Raita, Timo) *see* **Algorithm theory—SWAT 2002, 2005a:68002**
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(Restivo, Antonio) *see* **de Luca, Aldo et al.**
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(Sack, Jörg-Rüdiger) *see* **Algorithms and data structures, 2005b:68005**
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Salomaa, Kai (*with* Yu, Sheng) Preface: Special issue: 9th International Conference on Implementation and Application of Automata (CIAA 2004).
— *see also* **Implementation and application of automata, 2005m:68009**
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(Saraiva, João) *see* **Applied semantics, 2005b:68006**
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Streinu, Ileana Editorial [Special issue on the 10th Fall Workshop on Computational Geometry].
Svátek, Vojtěch (*with* Štěpánková, Olga) Special issue: guest editorial [Papers from the 2nd Annual Conference "Knowledge 2003"].
Szpankowski, Wojciech *see* **Drmota, Michael**
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Bibliography:
Restivo, Antonio *see* **de Luca, Aldo et al.**
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CONCUR 2003—concurrency theory ★ CONCUR 2003—concurrency theory. **2005b:68010**
Conference:
Web Information System and Applications, 1st ★ The First Conference on Web Information System and Applications.
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Kyoto ★ Algorithms and computation. **2005c:68004**
LATIN 2000: theoretical informatics ★ LATIN 2000: theoretical informatics. **2005b:68017**
LATIN 2004: Theoretical informatics ★ LATIN 2004: Theoretical informatics. **2005d:68010**
Lecture Notes in Computer Science ★ LATIN 2000: theoretical informatics. **2005b:68017**
— ★ Automata, languages and programming. **2005a:68007**
— ★ Rough sets and current trends in computing. **2005b:68023**
— ★ Digital and image geometry. **2005j:68006**
— ★ Algorithm theory—SWAT 2002. **2005a:68002**
— ★ Algorithmic learning theory. **2005a:68003**

—★ Automata, languages and programming. **2005a:68008**
—★ Combinatorial pattern matching. **2005a:68009**
—★ Computing and combinatorics. **2005a:68012**
—★ Graph drawing. **2005a:68014**
—★ Graph-theoretic concepts in computer science. **2005a:68015**
—★ Algorithms and computation. **2005b:68004**
—★ Applied semantics. **2005b:68006**
—★ Automata, logics, and infinite games. **2005b:68009**
—★ Computer aided verification. **2005b:68011**
—★ Mathematical foundations of computer science 2002. **2005b:68019**
—★ Mathematics of program construction. **2005b:68021**
—★ Rewriting techniques and applications. **2005b:68022**
—★ Algorithms—ESA 2002. **2005c:68002**
—★ Logic for programming, artificial intelligence, and reasoning. **2005c:68007**
—★ Rough sets and current trends in computing. **2005c:68011**
—★ Approximation algorithms for combinatorial optimization. **2005d:68005**
—★ Computational logic: logic programming and beyond. Part I. **2005f:68005a**
—★ Computational logic: logic programming and beyond. Part II. **2005f:68005b**
—★ Algorithmic learning theory. **2005a:68004**
—★ Artificial neural nets problem solving methods. **2005a:68006**
—★ Combinatorial pattern matching. **2005a:68010**
—★ Computational methods in neural modeling. **2005a:68011**
—★ Distributed computing. **2005a:68013**
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—★ Algorithms and data structures. **2005b:68005**
—★ Approximation, randomization, and combinatorial optimization. **2005b:68007**
—★ Automata, languages and programming. **2005b:68008**
—★ CONCUR 2003—concurrency theory. **2005b:68010**
—★ Computer aided verification. **2005b:68012**
—★ FME 2003: formal methods. **2005b:68013**
—★ Foundations of software science and computation structures. **2005b:68014**
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—★ LATIN 2004: Theoretical informatics. **2005d:68010**
—★ Parallel processing and applied mathematics. **2005d:68011**
—★ STACS 2004. **2005d:68012**
—★ Verification, model checking, and abstract interpretation. **2005d:68013**
—★ Theory is forever. **2005g:68002**
—★ Computer science logic. **2005m:68006**
—★ FSTTCS 2004: Foundations of software technology and theoretical computer science. **2005m:68007**
—★ Foundations of software science and computation structures. **2005m:68008**
—★ Inductive logic programming. **2005m:68010**
—★ Mathematical foundations of computer science 2004. **2005m:68011**
—★ Theorem proving in higher order logics. **2005m:68012**
—★ Implementation and application of automata. **2005m:68009**
Logic for programming, artificial intelligence, and reasoning ★ Logic for programming, artificial intelligence, and reasoning. **2005c:68007**
Logic programming and nonmonotonic reasoning ★ Logic programming and nonmonotonic reasoning. **2005b:68018**
Lübeck ★ Algorithmic learning theory. **2005a:68003**
Machine learning: ECML 2003 ★ Machine learning: ECML 2003. **2005c:68008**
Madeira ★ Deontic logic in computer science. **2005d:68007**
Málaga ★ Automata, languages and programming. **2005a:68008**
Malmö ★ Fundamentals of computation theory. **2005b:68015**
Malvern, PA ★ Rough sets and current trends in computing. **2005c:68011**
Maó ★ Artificial neural nets problem solving methods. **2005a:68006**
—★ Computational methods in neural modeling. **2005a:68011**
Marseille ★ CONCUR 2003—concurrency theory. **2005b:68010**
Mathematical foundations of computer science 2002 ★ Mathematical foundations of computer science 2002. **2005b:68019**
Mathematical foundations of computer science 2003 ★ Mathematical foundations of computer science 2003. **2005b:68020**
Mathematical foundations of computer science 2004 ★ Mathematical foundations of computer science 2004. **2005m:68011**
Mathematical foundations of speech and language processing ★ Mathematical foundations of speech and language processing. **2005c:68009**
Mathematics of program construction ★ Mathematics of program construction. **2005b:68021**
Minneapolis, MN ★ Mathematical foundations of speech and language processing. **2005c:68009**
Montpellier ★ STACS 2004. **2005d:68012**
Montreal, QC ★ Proceedings of the Thirty-Fourth Annual ACM Symposium on Theory of Computing. **2005i:68004**
Morelia ★ Combinatorial pattern matching. **2005a:68010**
Mumbai ★ FST TCS 2003: Foundations of software technology and theoretical computer science. **2005d:68008**
Ottawa, ON ★ Algorithms and data structures. **2005b:68005**
Parallel processing and applied mathematics ★ Parallel processing and applied mathematics. **2005d:68011**
Park City, UT ★ Theorem proving in higher order logics. **2005m:68012**
Pisa ★ FME 2003: formal methods. **2005b:68013**
Portland, OR ★ Proceedings of the Thirty-Second Annual ACM Symposium on Theory of Computing. **2005i:68003**
Porto ★ Inductive logic programming. **2005m:68010**
Prague ★ Mathematical foundations of computer science 2004. **2005m:68011**
Princeton, NJ ★ Approximation, randomization, and combinatorial optimization. **2005b:68007**
Proceedings:
Conference on Artificial Intelligence (AAAI-04), 19th National ★ Proceedings: Nineteenth National Conference on Artificial Intelligence (AAAI-04), and Sixteenth Innovative Applications of Artificial Intelligence Conference (IAAI-04). **2005j:68007**
Innovative Applications of Artificial Intelligence Conference (IAAI-04), 16th ★ Proceedings: Nineteenth National Conference on Artificial Intelligence (AAAI-04), and Sixteenth Innovative Applications of Artificial Intelligence Conference (IAAI-04). **2005j:68007**
Symposium on Theory of Computing, 32nd Annual ACM ★ Proceedings of the Thirty-Second Annual ACM Symposium on Theory of Computing. **2005i:68003**
Symposium on Theory of Computing, 33rd Annual ACM, STOC'01 ★ Proceedings of the Thirty-Third Annual ACM Symposium on Theory of Computing. **2005j:68008**
Symposium on Theory of Computing, 34th Annual ACM, STOC'02 ★ Proceedings of the Thirty-Fourth Annual ACM Symposium on Theory of Computing. **2005i:68004**
Symposium on Theory of Computing, 35th Annual ACM, STOC'03 ★ Proceedings of the Thirty-Fifth Annual ACM Symposium on Theory of Computing. **2005j:68009**
Symposium on Theory of Computing, 36th Annual ACM, STOC'04 ★ Proceedings of the 36th Annual ACM Symposium on Theory of Computing. **2005i:68005**
WORDS'03 ★ Proceedings of WORDS'03. **2005c:68010**
Punta del Este ★ LATIN 2000: theoretical informatics. **2005b:68017**
Rewriting techniques and applications ★ Rewriting techniques and applications. **2005b:68022**
—★ Rewriting techniques and applications. **2005a:68016**
Rome ★ Algorithms—ESA 2002. **2005c:68002**
—★ Approximation algorithms for combinatorial optimization. **2005d:68005**
—★ Theorem proving in higher order logics. **2005b:68026**
Rough sets and current trends in computing ★ Rough sets and current trends in computing. **2005b:68023**
—★ Rough sets and current trends in computing. **2005c:68011**
Rough sets, fuzzy sets, data mining, and granular computing ★ Rough sets, fuzzy sets, data mining, and granular computing. **2005b:68024**
San Diego, CA ★ Proceedings of the Thirty-Fifth Annual ACM Symposium on Theory of Computing. **2005j:68009**
San Jose, CA ★ Proceedings: Nineteenth National Conference on Artificial Intelligence (AAAI-04), and Sixteenth Innovative Applications of Artificial Intelligence Conference (IAAI-04). **2005j:68007**
Santander ★ ISSAC 2004. **2005i:68002**
Sapporo ★ Algorithmic learning theory. **2005a:68004**
Schloss Dagstuhl ★ Digital and image geometry. **2005j:68006**
Singapore ★ Computing and combinatorics. **2005a:68012**
Sorrento ★ Distributed computing. **2005a:68013**
STACS 2003 ★ STACS 2003. **2005b:68025**
STACS 2004 ★ STACS 2004. **2005d:68012**
Szeged ★ Inductive logic programming. **2005b:68016**
Tbilisi ★ Logic for programming, artificial intelligence, and reasoning. **2005c:68007**
Theorem proving in higher order logics ★ Theorem proving in higher order logics. **2005b:68026**
—★ Theorem proving in higher order logics. **2005m:68012**
Theoretical computer science ★ Theoretical computer science. **2005b:68027**
Theory and applications of satisfiability testing ★ Theory and applications of satisfiability testing.
Theory is forever ★ Theory is forever. **2005g:68002**
Turku ★ Algorithm theory—SWAT 2002. **2005a:68002**
—★ Proceedings of WORDS'03. **2005c:68010**
Types for proofs and programs ★ Types for proofs and programs. **2005a:68017**
Valencia ★ Rewriting techniques and applications. **2005a:68016**
Vancouver, BC ★ Algorithms and computation. **2005b:68004**
Venice ★ Verification, model checking, and abstract interpretation. **2005d:68013**
Verification, model checking, and abstract interpretation ★ Verification, model checking, and abstract interpretation. **2005d:68013**
Verification: theory and practice ★ Verification: theory and practice. **2005d:68014**
Warsaw ★ Mathematical foundations of computer science 2002. **2005b:68019**
—★ Foundations of software science and computation structures. **2005b:68014**
Wuhan ★ The First Conference on Web Information System and Applications.
Zakopane ★ Intelligent information processing and web mining. **2005d:68009**

Items with secondary classifications in 68–06

(Akiyama, Jin) *see* **Discrete and computational geometry**, **2005f:52002**
Birkedal, Lars (*with* Escardó, Martín Hötzel; Jung, Achim; Rosolini, Giuseppe) Preface [Recent developments in domain theory: a collection of papers in honour of Dana S. Scott].
(Bodlaender, Hans L.) *see* **Graph-theoretic concepts in computer science**, **2005b:05002**
(Borovik, Alexandre V.) *see* **Computational and experimental group theory**, **2005b:20003**
(de Bruijn, N. G.) *see* **Thirty-five years of automating mathematics**, **2005d:03006**

(Chen, Dechang) *see* **Pattern recognition and string matching, 2005b:68003**
(Cheng, Xiuzhen) *see* **Pattern recognition and string matching, 2005b:68003**
(Dodgson, Neil A.) *see* **Advances in multiresolution for geometric modelling, 2005j:68003**
(Drmota, Michael) *see* **Mathematics and computer science. III, 2005d:00014**
Emiris, Ioannis Z. (*with* Mourrain, Bernard; Pan, Victor Ya.) Preface [Algebraic and numberical algorithms].
Escardó, Martín Hötzel *see* **Birkedal, Lars et al.**
(Farin, Gerald) *see* **Hierarchical and geometrical methods in scientific visualization, 2005a:65002**
(Flajolet, Philippe) *see* **Mathematics and computer science. III, 2005d:00014**
(Floater, Michael S.) *see* **Advances in multiresolution for geometric modelling, 2005j:68003**
Ganter, Bernhard (*with* Stumme, Gerd; Wille, Rudolf) Formal concept analysis: theory and applications.
(Gardy, Danièle) *see* **Mathematics and computer science. III, 2005d:00014**
(Gil, María Angeles) *see* **Soft methodology and random information systems, 2005i:62007**
(Gittenberger, Bernhard) *see* **Mathematics and computer science. III, 2005d:00014**
(Grzegorzewski, Przemysław) *see* **Soft methodology and random information systems, 2005i:62007**
(Hagen, Hans) *see* **Hierarchical and geometrical methods in scientific visualization, 2005a:65002**
(Hamann, Bernd) *see* **Hierarchical and geometrical methods in scientific visualization, 2005a:65002**
Hinze, Ralf Editorial: [Special issue on functional pearls].
(Hirose, Akira) *see* **Complex-valued neural networks, 2005b:00018**
(Hryniewicz, Olgierd) *see* **Soft methodology and random information systems, 2005i:62007**
Jung, Achim *see* **Birkedal, Lars et al.**
(Kamareddine, Fairouz D.) *see* **Thirty-five years of automating mathematics, 2005d:03006**
(Kano, Mikio) *see* **Discrete and computational geometry, 2005f:52002**
Knuth, Donald E. ★ Selected papers on computer languages. **2005b:68045**
— ★ Selected papers on discrete mathematics. **2005c:01030**
(Lawry, Jonathan) *see* **Soft methodology and random information systems, 2005i:62007**
(Loia, Vincenzo) *see* **Fuzzy logic and the internet, 2005b:68002**
(López-Díaz, Miguel) *see* **Soft methodology and random information systems, 2005i:62007**
(Martín-Vide, Carlos) *see* **Formal languages and applications, 2005g:68088**
(Mitrana, Victor) *see* **Formal languages and applications, 2005g:68088**
Mourrain, Bernard *see* **Emiris, Ioannis Z. et al.**
(Myasnikov, Aleksei G.) *see* **Computational and experimental group theory, 2005b:20003**
(Nikravesh, Masoud) *see* **Fuzzy logic and the internet, 2005b:68002**
Pan, Victor Ya. *see* **Emiris, Ioannis Z. et al.**
(Păun, Gheorghe) *see* **Formal languages and applications, 2005g:68088**
(Rajapakse, Jagath Chandana) *see* **Neural information processing: research and development, 2005g:68143**
Rosolini, Giuseppe *see* **Birkedal, Lars et al.**
(Sabin, Malcolm A.) *see* **Advances in multiresolution for geometric modelling, 2005j:68003**
(Scott, Dana S.) *see* **Birkedal, Lars et al.**
Stumme, Gerd *see* **Ganter, Bernhard et al.**
(Wang, Lipo) *see* **Neural information processing: research and development, 2005g:68143**
(Warnow, Tandy) *see* **Computing and combinatorics, 2005a:05002**
Wille, Rudolf *see* **Ganter, Bernhard et al.**
(Zadeh, Lotfi A.) *see* **Fuzzy logic and the internet, 2005b:68002**
(Zhu, Binhai) *see* **Computing and combinatorics, 2005a:05002**

Items listed otherwise than by author

Advances in multiresolution for geometric modelling ★ Advances in multiresolution for geometric modelling. **2005j:68003**
Baltimore, MD ★ Computational and experimental group theory. **2005b:20003**
Big Sky, MT ★ Computing and combinatorics. **2005a:05002**
Cambridge ★ Advances in multiresolution for geometric modelling. **2005j:68003**
Collected Works:
Knuth, Donald E. *see* **Knuth, Donald E., 2005b:68045** *and* **2005c:01030**
Complex-valued neural networks ★ Complex-valued neural networks. **2005b:00018**
Computational and experimental group theory ★ Computational and experimental group theory. **2005b:20003**
Computing and combinatorics ★ Computing and combinatorics. **2005a:05002**
Contemporary Mathematics ★ Computational and experimental group theory. **2005b:20003**
Discrete and computational geometry ★ Discrete and computational geometry. **2005f:52002**
Elspeet ★ Graph-theoretic concepts in computer science. **2005b:05002**
Formal languages and applications ★ Formal languages and applications. **2005g:68088**
Fuzzy logic and the internet ★ Fuzzy logic and the internet. **2005b:68002**
Graph-theoretic concepts in computer science ★ Graph-theoretic concepts in computer science. **2005b:05002**
Hierarchical and geometrical methods in scientific visualization ★ Hierarchical and geometrical methods in scientific visualization. **2005a:65002**
Lecture Notes in Computer Science ★ Computing and combinatorics. **2005a:05002**
— ★ Graph-theoretic concepts in computer science. **2005b:05002**
— ★ Discrete and computational geometry. **2005f:52002**
Mathematics and computer science. III ★ Mathematics and computer science. III. **2005d:00014**
Neural information processing: research and development ★ Neural information processing: research and development. **2005g:68143**
Oviedo ★ Soft methodology and random information systems. **2005i:62007**
Pattern recognition and string matching ★ Pattern recognition and string matching. **2005b:68003**
Selected papers on computer languages *see* **Knuth, Donald E., 2005b:68045**
Selected papers on discrete mathematics *see* **Knuth, Donald E., 2005c:01030**
Soft methodology and random information systems ★ Soft methodology and random information systems. **2005i:62007**
Tahoe City, CA ★ Hierarchical and geometrical methods in scientific visualization. **2005a:65002**
Thirty-five years of automating mathematics ★ Editorial preface. Thirty-five years of automating mathematics. **2005d:03006**
Tokyo ★ Discrete and computational geometry. **2005f:52002**
Vienna ★ Mathematics and computer science. III. **2005d:00014**

68Mxx Computer system organization

68M07 Mathematical problems of computer architecture

Al-Radadi, E. (*with* Siy, P.) RNS sign detector based on Chinese remainder theorem II (CRT II). (English summary) **2005a:68018**
Bertoni, Guido (*with* Guajardo, Jorge; Orlando, Gerardo) Systolic and scalable architectures for digit-serial multiplication in fields GF(p^m). (English summary) **2005e:68004**
Brodal, Gerth Stølting (*with* Fagerberg, Rolf) Funnel heap—a cache oblivious priority queue. (English summary) (*see* **2005b:68004**)
Buell, Duncan A. (*with* Devarkal, S.; Wake, Heather A.) Reconfigurable computing machines and their applications in computational number theory. (English summary) **2005c:68012**
Chiorean, Ioana *see* **Szakacs, Laura**
Devarkal, S. *see* **Buell, Duncan A. et al., 2005c:68012**
Fagerberg, Rolf *see* **Brodal, Gerth Stølting, (2005b:68004)**
Fischer, Wieland (*with* Seifert, Jean-Pierre) High-speed modular multiplication. (English summary) (*see* **2005d:94157**)
Geiselmann, Willi (*with* Steinwandt, Rainer) Yet another sieving device. (English summary) (*see* **2005d:94157**)
Guajardo, Jorge *see* **Bertoni, Guido et al., 2005e:68004**
Hanrot, Guillaume (*with* Rivat, Joël; Tenenbaum, Gérald; Zimmermann, Paul) Density results on floating-point invertible numbers. (English summary) **2005b:68028**
Honkala, Iiro (*with* Lobstein, Antoine) On identification in $\mathbb{Z}^2$ using translates of given patterns. (English summary) **2005m:68013**
Jung, Seok Won *see* **Lee, Seon Ok et al., (2005d:94153)**
Kim, Chang Han *see* **Lee, Seon Ok et al., (2005d:94153)**
Kim, Daeho *see* **Lee, Seon Ok et al., (2005d:94153)**
Koh, Jae-Young *see* **Lee, Seon Ok et al., (2005d:94153)**
Lee, Seon Ok (*with* Jung, Seok Won; Kim, Chang Han; Yoon, Janghong; Koh, Jae-Young; Kim, Daeho) Design of bit parallel multiplier with lower time complexity. (English summary) (*see* **2005d:94153**)
Lobstein, Antoine *see* **Honkala, Iiro, 2005m:68013**
Orlando, Gerardo *see* **Bertoni, Guido et al., 2005e:68004**
Pereira, A. (*with* Rodrigues, R.) Minimal convergence conditions for multiplicative normalization division. **2005f:68007**
— *see also* **Rocha, Eugénio M. et al., 2005f:68008**
Rivat, Joël *see* **Hanrot, Guillaume et al., 2005b:68028**
Rocha, Eugénio M. (*with* Sarychev, Andrei V.; Pereira, A.; Rodrigues, R.) An application of control-theoretic methods to digital arithmetic algorithms. **2005f:68008**
Rodrigues, R. *see* **Pereira, A., 2005f:68007** *and* **Rocha, Eugénio M. et al., 2005f:68008**
Sarychev, Andrei V. *see* **Rocha, Eugénio M. et al., 2005f:68008**
Seifert, Jean-Pierre *see* **Fischer, Wieland, (2005d:94157)**
Siy, P. *see* **Al-Radadi, E., 2005a:68018**
Steinwandt, Rainer *see* **Geiselmann, Willi, (2005d:94157)**
Szakacs, Laura (*with* Chiorean, Ioana) Automatic derivation of a systolic algorithm for sequences comparison. (English summary)
Tenenbaum, Gérald *see* **Hanrot, Guillaume et al., 2005b:68028**
Wake, Heather A. *see* **Buell, Duncan A. et al., 2005c:68012**
Yoon, Janghong *see* **Lee, Seon Ok et al., (2005d:94153)**
Zimmermann, Paul *see* **Hanrot, Guillaume et al., 2005b:68028**

Items with secondary classifications in 68M07

Adler, Micah (*with* Leighton, Frank Thomson) Compression using efficient multicasting. (*see* **2005i:68003**)
Ambühl, Christoph (*with* Weber, Birgitta) Parallel prefetching and caching is hard. (English summary) **2005e:68074**
Avanzi, Roberto Maria (*with* Mihăilescu, Preda) Generic efficient arithmetic algorithms for PAFFs (processor adequate finite fields) and related algebraic structures. (English summary) **2005f:94079**
Bakhanovich, S. V. (*with* Likhoded, N. A.) Mapping of algorithms onto parallel architectures of given dimension and given size. (Russian. English and Russian summaries) **2005a:68228**
Batina, Lejla (*with* Bruin-Muurling, Geeke; Örs, Sıddıka Berna) Flexible hardware design for RSA and elliptic curve cryptosystems. (English summary) **2005f:94081**
Benachour, P. (*with* Farrell, Patrick G.; Honary, Bahram) A line code construction for the adder channel with rates higher than time-sharing. (English summary) (*see* **2005b:94001**)
Bender, Michael A. (*with* Duan, Ziyang; Iacono, John; Wu, Jing) A locality-preserving cache-oblivious dynamic dictionary. (English summary) **2005e:68030**
Bertoni, Guido (*with* Guajardo, Jorge; Kumar, Sandeep; Orlando, Gerardo; Paar, Christof; Wollinger, Thomas) Efficient GF(p^m) arithmetic architectures for cryptographic applications. (English summary) (*see* **2005b:94045**)
Bilardi, Gianfranco (*with* Peserico, Enoch) A characterization of temporal locality and its portability across memory hierarchies. (English summary) (*see* **2005a:68007**)
Biswas, Rupak *see* **Feng, Huiyu et al.**
Brodal, Gerth Stølting (*with* Fagerberg, Rolf) Cache oblivious distribution sweeping. (English summary) (*see* **2005a:68008**)
Bruin-Muurling, Geeke *see* **Batina, Lejla et al., 2005f:94081**
Bryant, Randal E. *see* **Lahiri, Shuvendu K., (2005b:68012)**
Chang, Ku-Young *see* **Hong, Dowon et al., 2005d:94174**
Chiou, Che Wun (*with* Yang, Ted C.) A fast base-K logarithm with redundant representation. (English summary)
Conway, Thomas Galois field arithmetic over GF(p^m) for high-speed/low-power error-control applications. (English summary) **2005e:94282**

Dimitrakopoulos, Giorgos (*with* Paliouras, Vassilis) A novel architecture and a systematic graph-based optimization methodology for modulo multiplication. (English summary) **2005a:68241**
Duan, Ziyang *see* **Bender, Michael A. et al., 2005e:68030**
Even, Guy (*with* Seidel, Peter-M.; Ferguson, Warren E.) A parametric error analysis of Goldschmidt's division algorithm. (English summary) **2005h:68187**
Fagerberg, Rolf *see* **Brodal, Gerth Stølting, (2005a:68008)**
Fal′kovski, B. (*with* Fu, Cheng) A family of ternary arithmetic polynomial representations based on new classes of transformations. (Russian. Russian summary) **2005d:94226**
Farrell, Patrick G. *see* **Benachour, P. et al., (2005b:94001)**
Feng, Huiyu (*with* Van der Wijngaart, Rob F.; Biswas, Rupak) Unstructured adaptive meshes: bad for your memory? (English summary)
Ferguson, Warren E. *see* **Even, Guy et al., 2005h:68187**
Fischer, Wieland (*with* Seifert, Jean-Pierre) Unfolded modular multiplication. (English summary) **2005e:94087**
Fu, Cheng *see* **Fal′kovski, B., 2005d:94226**
Galán-Simón, F. Javier (*with* Martínez-Moro, Edgar; Tena-Ayuso, Juan G.) Majority-logic-decodable cyclic arithmetic-modular AN-codes in 1, 2, and L steps. (English summary) (*see* **2005b:94001**)
Golin, Mordecai J. (*with* Yong, Xuerong; Zhang, Yuan Ping; Sheng, Li[1]) New upper and lower bounds on the channel capacity of read/write isolated memory. (English summary) **2005f:68025**
Guajardo, Jorge *see* **Bertoni, Guido et al., (2005b:94045)**
Heys, Howard M. *see* **Xiao, Lu[1], (2005b:94052)**
Honary, Bahram *see* **Benachour, P. et al., (2005b:94001)**
Hong, Dowon (*with* Chang, Ku-Young; Ryu, Heuisu) Efficient oblivious transfer in the bounded-storage model. (English summary) **2005d:94174**
Iacono, John *see* **Bender, Michael A. et al., 2005e:68030**
Jung, Seok Won *see* **Yoon, Joong Chul et al., 2005f:94127**
Kashyap, Srinivas (*with* Khuller, Samir) Algorithms for non-uniform size data placement on parallel disks. (English summary) **2005e:68039**
Khuller, Samir *see* **Kashyap, Srinivas, 2005e:68039**
Kim, Hyun-Gyu (*with* Oh, Hyeong-Cheol) Efficient hardware multiplicative inverters. (English summary) (*see* **2005b:94052**)
Klimov, Alexander (*with* Shamir, Adi) Cryptographic applications of T-functions. (English summary) **2005g:94077**
Kryzhanovskiĭ, B. V. (*with* Litinskiĭ, L. B.) Vector models of associative memory. (Russian. Russian summary)
Kumar, Sandeep *see* **Bertoni, Guido et al., (2005b:94045)**
Lahiri, Shuvendu K. (*with* Bryant, Randal E.) Deductive verification of advanced out-of-order microprocessors. (English summary) (*see* **2005b:68012**)
Lee, Sung-Woo *see* **Yoon, Joong Chul et al., 2005f:94127**
Leighton, Frank Thomson *see* **Adler, Micah, (2005i:68003)**
Likhoded, N. A. *see* **Bakhanovich, S. V., 2005a:68228**
Litinskiĭ, L. B. *see* **Kryzhanovskiĭ, B. V.**
Martínez-Moro, Edgar *see* **Galán-Simón, F. Javier et al., (2005b:94001)**
Matsumae, Susumu Simulation of meshes with separable buses by meshes with multiple partitioned buses. (English summary) **2005a:68230**
Mihăilescu, Preda *see* **Avanzi, Roberto Maria, 2005f:94079**
Mukhopadhyaya, Srabani *see* **Venkataraman, Gayathri et al.**
Nakano, Junji Parallel computing techniques. (*see* **2005g:62004**)
Oh, Hyeong-Cheol *see* **Kim, Hyun-Gyu, (2005b:94052)**
Orlando, Gerardo *see* **Bertoni, Guido et al., (2005b:94045)**
Örs, Sıddıka Berna *see* **Batina, Lejla et al., 2005f:94081**
Paar, Christof *see* **Bertoni, Guido et al., (2005b:94045)**
Paliouras, Vassilis *see* **Dimitrakopoulos, Giorgos, 2005a:68241**
Peserico, Enoch *see* **Bilardi, Gianfranco, (2005a:68007)**
Ryu, Heuisu *see* **Hong, Dowon et al., 2005d:94174**
Sahni, Sartaj *see* **Venkataraman, Gayathri et al.**
Seidel, Peter-M. *see* **Even, Guy et al., 2005h:68187**
Seifert, Jean-Pierre *see* **Fischer, Wieland, 2005c:94087**
Shamir, Adi *see* **Klimov, Alexander, 2005g:94077**
Sheng, Li[1] *see* **Golin, Mordecai J. et al., 2005f:68025**
Stetsyura, G. G. Possibilities of the application of fractal bonds and group operations in multi-processor systems with an adjustable structure for evolutionary computations. (Russian. Russian summary)
Tena-Ayuso, Juan G. *see* **Galán-Simón, F. Javier et al., (2005b:94001)**
Van der Wijngaart, Rob F. *see* **Feng, Huiyu et al.**
Venkataraman, Gayathri (*with* Sahni, Sartaj; Mukhopadhyaya, Srabani) A blocked all-pairs shortest-paths algorithm. (English summary)
Weber, Birgitta *see* **Ambühl, Christoph, 2005e:68074**
Wollinger, Thomas *see* **Bertoni, Guido et al., (2005b:94045)**
Wu, Jing *see* **Bender, Michael A. et al., 2005e:68030**
Xiao, Lu[1] (*with* Heys, Howard M.) Hardware design and analysis of block cipher components. (English summary) (*see* **2005b:94052**)
Yang, Ted C. *see* **Chiou, Che Wun**
Yong, Xuerong *see* **Golin, Mordecai J. et al., 2005f:68025**
Yoon, Joong Chul (*with* Jung, Seok Won; Lee, Sung-Woo) Architecture for an elliptic curve scalar multiplication resistant to some side-channel attacks. (English summary) **2005f:94127**
Zhang, Yuan Ping *see* **Golin, Mordecai J. et al., 2005f:68025**

68M10 Network design and communication [see also 68R10, 90B18]

Adamy, Udo (*with* Ambuehl, Christoph; Anand, R. Sai; Erlebach, Thomas) Call control in rings. (English summary) (*see* **2005a:68008**)
Adler, Micah Tradeoffs in probabilistic packet marking for IP traceback. (English summary) (*see* **2005i:68004**)
Ageev, A. A. (*with* Fishkin, Aleksei V.; Kononov, Aleksandr Veniaminovich; Sevast′yanov, S. V.) Open block scheduling in optical communication networks. (English summary) (*see* **2005c:68005**)
Aiello, William A. (*with* Mansour, Yishay; Rajagopolan, S.; Rosén, Adi) Competitive queue policies for differentiated services. (English summary) **2005k:68003**
Ajmone Marsan, Marco *see* **Leonardi, Emilio et al.**
Altman, Tom (*with* Igarashi, Yoshihide; Motegi, Kazuhiro) Fast and dependable communication in hyper-rings. (English summary) (*see* **2005a:68012**)
Àlvarez, Carme (*with* Blesa, M.; Díaz, Josep; Fernández, Antonio[1]; Serna, Maria José) Adversarial models for priority-based networks. (English summary) (*see* **2005b:68020**)
Ambuehl, Christoph *see* **Adamy, Udo et al., (2005a:68008)**
Ambühl, Christoph (*with* Clementi, Andrea E. F.; Di Ianni, Miriam; Lev-Tov, Nissan; Monti, Angelo; Peleg, David; Rossi, Gianluca; Silvestri, Riccardo) Efficient algorithms for low-energy bounded-hop broadcast in ad-hoc wireless networks (extended abstract). (English summary) (*see* **2005d:68012**)
Anand, R. Sai (*with* Erlebach, Thomas) Routing and call control algorithms for ring networks. (English summary) (*see* **2005b:68005**)
— *see also* **Adamy, Udo et al., (2005a:68008)**
Angel, Eric (*with* Bampis, Evripidis; Pascual, Fanny) Traffic grooming in a passive star WDM network. (English summary)
Anshelevich, Elliot (*with* Dasgupta, Anirban[2]; Tardos, Éva; Wexler, Thomas B.) Near-optimal network design with selfish agents. (English summary) **2005k:68004**
Arvanitis, Theodoros N. *see* **Stepanenko, Alexander S. et al., 2005m:68020**
Awerbuch, Baruch (*with* Brinkmann, André; Scheideler, Christian) Anycasting in adversarial systems: routing and admission control. (English summary) (*see* **2005b:68008**)
— (*with* Azar, Yossi; Richter, Yossi; Tsur, Dekel) Tradeoffs in worst-case equilibria. (English summary) (*see* **2005c:68005**)
— (*with* Kleinberg, Robert D.) Adaptive routing with end-to-end feedback: distributed learning and geometric approaches. (English summary) **2005j:68010**
Azar, Yossi (*with* Cohen, Edith; Fiat, Amos; Kaplan, Haim; Räcke, Harald) Optimal oblivious routing in polynomial time. (English summary) **2005k:68005**
— (*with* Epstein, Amir; Epstein, Leah) Load balancing of temporary tasks in the l_p norm. (English summary) (*see* **2005c:68005**)
— (*with* Richter, Yossi) The zero-one principle for switching networks. (English summary) **2005j:68011**
— (*with* Cohen, Edith; Fiat, Amos; Kaplan, Haim; Räcke, Harald) Optimal oblivious routing in polynomial time. (English summary) **2005c:68013**
— *see also* **Awerbuch, Baruch et al., (2005c:68005)**
Baltz, Andreas (*with* Jäger, Gerold; Srivastav, Anand) Constructions of sparse asymmetric connectors (extended abstract). (English summary) (*see* **2005d:68008**)
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— (*with* Kortsarz, Guy) Approximation algorithm for directed telephone multicast problem. (English summary) (*see* **2005b:68008**)
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Tan, Guo-zhen (*with* Xia, Xiang-fu; Gao, Wen[1]) Reliability theory model and expected life shortest path in stochastic and time-dependent networks. (English summary) **2005i:62145**
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Wang, Hong Jun (*with* Wang, Rui Jun; Wang, Da Dong; Gao, Yuan) Convergence time of BGP based on dispute digraph. (Chinese. English and Chinese summaries)
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— *see also* **Xu, Min[5] et al., 2005h:05066**
Xu, Min[5] (*with* Xu, Jun Ming; Hou, Xin-Min) Fault diameter of Cartesian product graphs. (English summary) **2005h:05066**
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Yamada, Toshinori (*with* Ohtsuka, T.; Watanabe, A.; Ueno, Shuichi) On sequential diagnosis of multiprocessor systems. (English summary) **2005k:68013**
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Yang, Jian[4] (*with* Leung, Joseph Y.-T.) A generalization of the weighted set covering problem. (English summary) **2005k:90193**
Yang, Xiaofan (*with* Evans, David John[1]; Lai, Hong-Jian; Megson, Graham M.) Generalized honeycomb torus is Hamiltonian. (English summary) **2005d:68108**
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Yu, Jie[3] (*with* Petropulu, Athina P.; Sethu, Harish) Rate-limited EAFRP—a new improved model for high-speed network traffic. (English summary)
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Items listed otherwise than by author

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Fitzi, Matthias (*with* Maurer, Ueli) From partial consistency to global broadcast. (*see* **2005i:68003**)
Fu, Xiang[2] (*with* Bultan, Tevfik; Su, Jianwen) Conversation protocols: a formalism for specification and verification of reactive electronic services. (English summary) **2005g:68007**
Gilbert, Anna Catherine (*with* Karloff, Howard) On the fractal behavior of TCP. (English summary) **2005k:68010**
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Li, La Yuan (*with* Li, Chun Lin) A QoS multicast routing protocol for dynamic group topology. (English summary)
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Zhu, Lie Huang (*with* Cao, Yuan Da) Multicast rekeying protocol based on one-way key chain tree. (Chinese. English and Chinese summaries)

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Lin, Chi-Yi *see* **Tsai, Jichiang et al.**, **2005d:68020**
Lindell, Yehuda (*with* Lysyanskaya, Anna; Rabin, Tal) On the composition of authenticated Byzantine agreement. (English summary) (*see* **2005i:68004**)
— Bounded-concurrent secure two-party computation without setup assumptions. (English summary) **2005j:94033**
— *see also* **Canetti, Ran et al.**, (2005i:68004)
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Zhang, Ai Xin (*with* Yang, Ming Fu; Li, Sheng Hong[2]; Li, Jian Hua) An analysis and design logic for authentication security. (Chinese. English and Chinese summaries)
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Lee, Okbin (*with* Lee, Sang Ho; Kim, Seongyeol; Chung, Ilyong) An efficient load balancing algorithm employing a symmetric balanced incomplete block design. (English summary) (*see* **2005c:00014**)
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Lhoussaine, Cédric Type inference for a distributed π-calculus. (English summary) **2005a:68149**
Lücking, Thomas (*with* Monien, Burkhard; Rode, Manuel) On the problem of scheduling flows on distributed networks. (English summary) (*see* **2005b:68019**)
Metel′skiĭ, V. M. *see* **Kovalenko, N. S. et al.**
Mitchell, Chris J. Remote user authenticaton using public information. (English summary) (*see* **2005d:94152**)
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Pattinson, Dirk (*with* Wirsing, Martin) A coordination approach to mobile components. (English summary) **2005i:68046**
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Shi, Wei (*with* Bouabdallah, A.; Srimani, Pradip K.) Leader election in oriented star graphs. (English summary) **2005k:68164**
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Xiang, Yang[1] (*with* Chen, Xiaoyun) Interface verification for multiagent probabilistic inference. (English summary)
Xu, Cheng-Zhong[2] ★ Scalable and secure internet services and architecture.
Yan, Kuo-Qin (*with* Wang, Shu-Ching) Reaching fault diagnosis agreement on an unreliable general network. (English summary)
Zemmari, Akka *see* **Duchon, Philippe et al.**, 2005e:68007

Items listed otherwise than by author

Distributed computing ★ Distributed computing. **2005a:68013**
Lecture Notes in Computer Science ★ Distributed computing. **2005a:68013**
Sorrento ★ Distributed computing. **2005a:68013**

68M15 Reliability, testing and fault tolerance [see also 94C12]

Abdellha, M. H. *see* **Mahdy, Y. B. et al.**, 2005f:68013
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Gonzalez, Teofilo F. (*with* Serena, David) n-cube network: node disjoint shortest paths for maximal distance pairs of vertices. (English summary)

— (*with* Serena, David) Complexity of pairwise shortest path routing in the grid. (English summary) **2005e:68015**
Hsu, Hong-Chun (*with* Chiang, Liang-Chih; Tan, Jimmy J. M.; Hsu, Lih-Hsing) Fault Hamiltonicity of augmented cubes. (English summary) **2005k:68012**
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Latora, Vito *see* **Crucitti, Paolo et al., 2005e:68014**
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Mahdy, Y. B. (*with* Younes, Adel Y. H.; Soliman, M. A.; Abdellha, M. H.) A modified algorithm for computing the upper-bound reliability of computer networks. (English summary) **2005f:68013**
Maity, Soumen (*with* Nayak, Amiya; Roy, Bimal K.) Characterization of catastrophic faults in two-dimensional reconfigurable systolic arrays with unidirectional links. (English summary)
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Nabli, Hédi Performability: asymptotic distribution and moment computation. (English summary) **2005c:68020**
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Nayak, Amiya *see* **Maity, Soumen et al.**
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Pan, Zhong Liang *see* **Yang, Yi**
Pelc, Andrzej (*with* Peleg, David) Broadcasting with locally bounded Byzantine faults. **2005h:68011**
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Vedeshenkov, V. A. A procedure for restoring the operation of fault-tolerant digital systems with dynamic redundancy. (Russian. Russian summary)
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Wu, Xiaolong[2] *see* **Zheng, Jun[3] et al., 2005g:68011**
Yamada, Toshinori (*with* Ohtsuka, T.; Watanabe, A.; Ueno, Shuichi) On sequential diagnosis of multiprocessor systems. (English summary) **2005k:68013**
Yang, Yi (*with* Pan, Zhong Liang) A BDD-based method for computing network reliability. (Chinese. English and Chinese summaries)
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Zheng, Jun[3] (*with* Latifi, Shahram; Regentova, Emma; Luo, Kai; Wu, Xiaolong[2]) Diagnosability of star graphs under the comparison diagnosis model. (English summary) **2005g:68011**

Items with secondary classifications in 68M15

Alekhina, M. A. On the complexity of reliable circuits consisting of unreliable elements with single-type constant faults. (Russian. Russian summary) **2005f:94181**
Almási, B. (*with* Sztrik, János) Reliability investigations of heterogeneous terminal systems using MOSEL.
Attiya, Hagit (*with* Dagan, Eyal) Improved implementations of binary universal operations. (English summary)
— (*with* Fouren, Arie) Algorithms adapting to point contention. (English summary) **2005m:68023**
Bang, Young-Cheol (*with* Choo, Hyunseung; Mun, Youngsong) Reliability problem on all pairs quickest paths. (English summary) **2005h:90028**
Blundo, Carlo (*with* D'Arco, Paolo; Daza, Vanessa; Padró, Carles) Bounds and constructions for unconditionally secure distributed key distribution schemes for general access structures. (English summary) **2005d:94160**
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Carmi, Paz (*with* Dolev, Shlomi; Har-Peled, Sariel; Katz, Matthew J.; Segal, Michael) Geographic quorum system approximations. (English summary) **2005k:68203**
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Chuang, Po-Jen (*with* Yao, Li-Chiang) An efficient reconfiguration scheme for fault-tolerant meshes. (English summary)
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Fernández-Zepeda, José Alberto (*with* Estrella-Balderrama, Alejandro; Bourgeois, Anu G.) Designing fault tolerant algorithms for reconfigurable meshes. (English summary)
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Friedman, Roy (*with* Mostefaoui, Achour; Raynal, Michel) Asynchronous bounded lifetime failure detectors. (English summary) **2005k:68222**
Frumkin, M. A. (*with* Van der Wijngaart, Rob F.) Tight bounds on cache use for stencil operations on rectangular grids. (English summary)
Gupta, Arvind (*with* Mañuch, Ján; Stacho, Ladislav) Fault tolerant forwarding and optical indexes: a design theory approach. (English summary)
Har-Peled, Sariel *see* **Carmi, Paz et al., 2005k:68203**
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Ito, Hiro (*with* Iwama, Kazuo; Okabe, Yasuo; Yoshihiro, Takuya) Single backup table schemes for shortest-path routing. (English summary) **2005j:68013**
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Karavaĭ, M. F. Minimized embedding of arbitrary Hamiltonian graphs into fault-tolerant graphs and reconfiguration under failures. II. Lattices and k-fault tolerance. (Russian. Russian summary) **2005m:68167**
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Leu, Yuh-Rong *see* **Wang, Shih-Chang et al., 2005b:68034**
Li, Tseng-Kuei (*with* Tan, Jimmy J. M.; Hsu, Lih-Hsing) Hyper Hamiltonian laceability on edge fault star graph. (English summary) **2005e:05085**
Lin, Chi-Yi *see* **Tsai, Jichiang et al., 2005d:68020**
Lobanov, A. V. Information cross-matching with detection and identification of opposing failures in incompletely connected multicomputer systems. (Russian. Russian summary)
Mañuch, Ján *see* **Gupta, Arvind et al.**
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Nardelli, Enrico (*with* Proietti, Guido; Widmayer, Peter) Nearly linear time minimum spanning tree maintenance for transient node failures. (English summary) **2005b:68216**
Nasroallah, Abdelaziz Monte Carlo simulation of Markov chain steady-state distribution.
Noore, A. (*with* Cross, P. L.) Modeling the reliability of large dynamic distributed non-homogeneous networks.
Noskov, V. N. Efficient diagnosis of faults in automaton networks. (Russian. Russian summary) **2005m:94060**
Okabe, Yasuo *see* **Ito, Hiro et al., 2005j:68013**
Padró, Carles *see* **Blundo, Carlo et al., 2005d:94160**
Paquette, Michel (*with* Pelc, Andrzej) Optimal decision strategies in Byzantine environments. (English summary)
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Pencolé, Yannick (*with* Cordier, Marie-Odile) A formal framework for the decentralised diagnosis of large scale discrete event systems and its application to telecommunication networks. (English summary) **2005m:68207**
Piotrów, Marek Depth optimal sorting networks resistant to k passive faults. (English summary) **2005m:68069**
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Ravikumar, Balasubramanian A fault-tolerant merge sorting algorithm. (English summary) (*see* **2005a:68012**)
Raynal, Michel *see* **Friedman, Roy et al., 2005k:68222** *and* **Mostefaoui, Achour et al., 2005m:68018**
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Stacho, Ladislav *see* **Gupta, Arvind et al.**
Steinder, Małgorzata (*with* Sethi, Adarshpal S.) A survey of fault localization techniques in computer networks. (English summary)
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Vanier, Sonia *see* **Maurras, Jean François, 2005c:90014**
Wang, Dajin *see* **Wu, Jie[5]**
Wang, Shih-Chang (*with* Leu, Yuh-Rong; Kuo, Sy-Yen) Distributed fault-tolerant embedding of several topologies in hypercubes. (English summary) **2005b:68034**
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Wolle, Thomas A framework for network reliability problems on graphs of bounded treewidth. (English summary) (*see* **2005b:68004**)
Wu, Jie[5] (*with* Wang, Dajin) Fault-tolerant and deadlock-free routing in 2-D meshes using rectilinear-monotone polygonal fault blocks. (English summary)
Xu, Jun Ming Wide diameters of Cartesian product graphs and digraphs. (English summary) **2005f:05052**
— *see also* **Xu, Min[5] et al., 2005h:05066**
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Yan, Kuo-Qin (*with* Wang, Shu-Ching) Reaching fault diagnosis agreement on an unreliable general network. (English summary)

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Yoshihiro, Takuya *see* **Ito, Hiro et al., 2005j:68013**

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Anagnostopoulos, Aris (*with* Kirsch, Adam; Upfal, Eli) Load balancing in arbitrary network topologies with stochastic adversarial input. (English summary) **2005k:68014**
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— *see also* **Srinivasan, Anand[1], (2005i:68004)**
Andrews, Matthew (*with* Zhang, Lisa) Minimizing end-to-end delay in high-speed networks with a simple coordinated schedule. (English summary) **2005a:68028**
— (*with* Zhang, Lisa) The effects of temporary sessions on network performance. (English summary) **2005b:68038**
Anshelevich, Elliot (*with* Kempe, David; Kleinberg, Jon) Stability of load balancing algorithms in dynamic adversarial systems. (English summary) (*see* **2005i:68004**)
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Bar-Noy, Amotz (*with* Bar-Yehuda, Reuven; Freund, Ari; Naor, Joseph; Schieber, Baruch) A unified approach to approximating resource allocation and scheduling. (*see* **2005i:68003**)
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Beaumont, Olivier (*with* Legrand, Arnaud; Marchal, Loris; Robert, Yves) Steady-state scheduling on heterogeneous clusters. (English summary)
Becchetti, Luca (*with* Leonardi, Stefano) Non-clairvoyant scheduling to minimize the average flow time on single and parallel machines. (English summary) (*see* **2005j:68008**)
Berenbrink, Petra (*with* Czumaj, Artur; Steger, Angelika; Vöcking, Berthold) Balanced allocations: the heavily loaded case. (*see* **2005i:68003**)
Bhaskar, Vidhyacharan (*with* Joiner, Laurie L.) Modeling scheduled dataflow architecture: an open queuing network model approach. (English summary)
Bhatia, Randeep (*with* Chuzhoy, Julia; Freund, Ari; Naor, Joseph) Algorithmic aspects of bandwidth trading. (English summary) (*see* **2005b:68008**)
Bhattacharjee, Rajat (*with* Goel, Ashish; Lotker, Zvi) Instability of FIFO at arbitrarily low rates in the adversarial queueing model. (English summary) **2005m:68024**
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— *see also* **Bampis, Evripidis et al., (2005b:68004)**
Chaudhry, Mohan L. (*with* Gupta, U. C.; Goswami, V.) On discrete-time multiserver queues with finite buffer: $GI/Geom/m/N$. (English summary) **2005b:68040**
Chawla, Shuchi *see* **Bansal, Nikhil et al., (2005c:68003)**
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— (*with* Epstein, Leah; Noga, John; Sgall, Jiří; van Stee, Rob; Tichý, Tomáš; Vakhaniya, Nodari N.) Preemptive scheduling in overloaded systems. (English summary) (*see* **2005a:68008**)
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— (*with* Zhang, Guochuan) On maximizing the throughput of multiprocessor tasks. (English summary) (*see* **2005b:68019**)
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Rajaraman, Rajmohan *see* **Muthukrishnan, S. Muthu et al., 2005m:68269**
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Remy, Jan Resource constrained scheduling on multiple machines. (English summary) **2005b:68289**
Rivlin, Ehud *see* **Finkelstein, Lev et al., 2005h:68167**
Rode, Manuel *see* **Lücking, Thomas et al., 2005f:91015** *and* **Feldmann, Rainer et al., (2005b:68008)**
Rojanasoonthon, Siwate (*with* Bard, Jonathan F.) A GRASP for parallel machine scheduling with time windows. (English summary) **2005k:90044**
Rotaru, Tiberiu (*with* Nägeli, Hans-Heinrich) Fast algorithms for fair dynamic load redistribution in heterogeneous environments. (English summary) **2005b:65155**
Roughgarden, Tim Stackelberg scheduling strategies. (English summary) (*see* **2005j:68008**)
— Stackelberg scheduling strategies. (English summary) **2005e:68100**
Roumeliotis, Manos *see* **Baklavas, G., 2005k:90029**
Saad, Rachid *see* **Rahoual, Malek**
Salehi-Rad, M. R. (*with* Mengersen, Kerrie; Shahkar, G. H.) Reservicing some customers in $M/G/1$ queues under three disciplines. (English summary) **2005m:60214**
Sanders, Peter *see* **Krysta, Piotr et al., 2005c:90030**
Savenkov, T. Yu. Limit theorems for the characteristics of queueing systems with batch processing of customers. (Russian. Russian summary) **2005e:60219**
Scheideler, Christian *see* **Awerbuch, Baruch et al., (2005b:68008)**
Schieber, Baruch *see* **Kesselman, Alexander et al., 2005d:90050**
Schwiegelshohn, Uwe Preemptive weighted completion time scheduling of parallel jobs. (English summary) **2005h:90051**
Scutellà, Maria Grazia *see* **Frangioni, Antonio et al., 2005b:90045**
Segal, Michael *see* **Carmi, Paz et al., 2005k:68203**
Serna, Maria José *see* **Àlvarez, Carme et al., (2005b:68020)**
Servilio, Mara *see* **Arbib, Claudio et al., 2005f:90041**
Sgall, Jiří *see* **Bartal, Yair et al., 2005e:90034**
Shachnai, Hadas (*with* Tamir, Tami; Woeginger, Gerhard J.) Minimizing makespan and preemption costs on a system of uniform machines. (English summary) (*see* **2005c:68002**)
— (*with* Tamir, Tami; Woeginger, Gerhard J.) Minimizing makespan and preemption costs on a system of uniform machines. (English summary) **2005m:68260**
Shaheen, Anthony *see* **Muthukrishnan, S. Muthu et al., 2005m:68269**
Shahkar, G. H. *see* **Salehi-Rad, M. R. et al., 2005m:60214**
Sharafali, Moosa (*with* Co, Henry C.; Goh, Mark) Production scheduling in a flexible manufacturing system under random demand. (English summary) **2005a:90082**
Shreve, Steven E. *see* **Kruk, Łukasz et al., 2005j:60171**
Simons, Dirk *see* **Biskup, Dirk, 2005b:90039**
Smriglio, Stefano *see* **Arbib, Claudio et al., 2005f:90041**
Speranza, Maria Grazia *see* **Angelelli, E. et al., 2005g:90041**
Spirakis, Paul G. *see* **Lücking, Thomas et al., 2005f:91015**
Sprugnoli, R. *see* **Merlini, Donatella et al., 2005h:68112**
van Stee, Rob *see* **Epstein, Leah, 2005h:68041**
Suresh, S. (*with* Mani, V.; Omkar, S. N.; Kim, Hyoung Joong) An equivalent network for divisible load scheduling in nonblocking mode of communication. (English summary)
Sviridenko, M. I. *see* **Kesselman, Alexander et al., 2005d:90050**
Sztrik, János (*with* Kim, Che Soong) Markov-modulated finite-source queueing models in evaluation of computer and communication systems. (English summary) **2005j:60175**
— Tool supported performance modelling of finite-source retrial queues with breakdowns. (English summary)
Tamir, Tami *see* **Harvey, Nicholas J. A. et al., 2005c:68224**; **Shachnai, Hadas et al., 2005m:68260** *and* **(2005c:68002)**
Tan, Zhiyi (*with* He, Yong[1]) Ordinal scheduling problem and its asymptotically optimal algorithms on parallel machine system. (English summary) **2005c:90033**
Teresco, James D. *see* **Devine, Karen D. et al.**
Tichý, Tomáš *see* **Bartal, Yair et al., 2005e:90034**
Tier, Charles *see* **Knessl, Charles et al., 2005d:60145**
To, Kar-Keung *see* **Chan, Ho-Leung et al., 2005k:68085**
Tuza, Zsolt *see* **Angelelli, E. et al., 2005g:90041**
Verri, M. Cecilia *see* **Merlini, Donatella et al., 2005h:68112**
Vizvári, Béla *see* **Dósa, György**
Vöcking, Berthold How asymmetry helps load balancing. (English summary) **2005m:68247**
— *see also* **Krysta, Piotr et al., 2005c:90030**
Vrt'o, Imrich *see* **Lücking, Thomas et al., 2005f:91015**
Wang, Ji-Bo (*with* Xia, Zun Quan) Scheduling jobs under decreasing linear deterioration. (English summary) **2005j:90032**
Wang, Limin *see* **Low, Steven H. et al.**
Woeginger, Gerhard J. *see* **Shachnai, Hadas et al., 2005m:68260** *and* **(2005c:68002)**
Wójcik, Robert *see* **Polak, Michałet al.**
Xia, Zun Quan *see* **Wang, Ji-Bo, 2005j:90032**
Xu, Cheng-Zhong[2] ★ Scalable and secure internet services and architecture.
Ye, Deshi (*with* Zhang, Guochuan) Online scheduling of parallel jobs with dependencies on 2-dimensional meshes. (English summary) **2005e:90045**
Yeung, Shu-Ngai *see* **Kruk, Łukasz et al., 2005j:60171**
Yuan, Jin Jiang (*with* Liu, Zhaohui; Ng, C. T. Daniel; Cheng, T. C. Edwin) The unbounded single machine parallel batch scheduling problem with family jobs and release dates to minimize makespan. (English summary) **2005a:90077**
Zeevi, Assaf *see* **Maglaras, Constantinos, 2005m:60178**
Zhang, Feng[1] Controllable scheduling for the sum of the number of late jobs and the maximal compress rate of processing times. (Chinese. English and Chinese summaries) **2005b:90054**
Zhang, Guochuan *see* **Ye, Deshi, 2005e:90045**

Zhang, Lisa *see* **Andrews, Matthew**
Zhang, Zhe George *see* **Zhu, Yi Jun**
Zhao, Yiqiang Q. *see* **Miyazawa, Masakiyo**, 2005h:60280
Zhu, Yi Jun (*with* Zhang, Zhe George) *M/GI/1* queues with services of both positive and negative customers. (English summary)
Zwart, Bert (*with* Borst, S. C.; Mandjes, Michel) Exact asymptotics for fluid queues fed by multiple heavy-tailed on-off flows. (English summary) **2005e:60226**

Items listed otherwise than by author

Handbook:
Scheduling ★ Handbook of scheduling. **2005d:90001**

68M99 None of the above, but in this section

Chaves, Ricardo *see* **Sousa, Leonel**, 2005m:68027
El-Owny, Hassan Exact scalar product on high-performance computing. (English and Bulgarian summaries) (*see* **2005f:00011**)
Imam, T. (*with* Kaykobad, Mohammad) Symbolic substitution based canonical recoding algorithms. (English summary)
Kaykobad, Mohammad *see* **Imam, T.**
Lafonte, Arnaud Ismael Essay on macro-additions. (English summary)
Sousa, Leonel (*with* Chaves, Ricardo) A universal architecture for designing efficient modulo $2^n + 1$ multipliers. (English summary) **2005m:68027**

Items with secondary classifications in 68M99

Brodal, Gerth Stølting (*with* Fagerberg, Rolf) On the limits of cache-obliviousness. (English summary) **2005k:68037**
— (*with* Demaine, Erik D.; Munro, J. Ian) Fast allocation and deallocation with an improved buddy system. (English summary) **2005m:68041**
Chatterjee, Siddhartha *see* **Sen, Sandeep et al.**, 2005m:68271
Chen, Song (*with* Hong, Xian-Long; Dong, She-Qin; Ma, Yu-Chun; Cheng, Chung-Kuan; Gu, Jun) Fast evaluation of bounded slice-line grid. (English summary)
Cheng, Chung-Kuan *see* **Chen, Song et al.**
Cipolatti, R. *see* **López Gondar, J.**, 2005b:45005
Demaine, Erik D. *see* **Brodal, Gerth Stølting et al.**, 2005m:68041
Dong, She-Qin *see* **Chen, Song et al.**
Dumir, Neeraj *see* **Sen, Sandeep et al.**, 2005m:68271
Dwork, Cynthia (*with* Goldberg, Andrew V.; Naor, Moni) On memory-bound functions for fighting spam. (English summary) **2005e:94230**
Fagerberg, Rolf *see* **Brodal, Gerth Stølting**, 2005k:68037
Goldberg, Andrew V. *see* **Dwork, Cynthia et al.**, 2005e:94230
Gu, Jun *see* **Chen, Song et al.**
Harley, Thomas R. (*with* Maheshwaramurthy, G. P.) Address generators for mapping arrays in bit-reversed order. (English summary) **2005c:94038**
Hong, Xian-Long *see* **Chen, Song et al.**
Jo, Byung G. (*with* Sunwoo, Myung H.) New continuous-flow mixed-radix (CFMR) FFT processor using novel in-place strategy. (English summary)
Kim, Hyun-Sung (*with* Yoo, Kee-Young) AOP arithmetic architectures over GF(2^m). (English summary) **2005e:94301**
Kuroe, Yasuaki A model of complex-valued associative memories and its dynamics. (*see* **2005b:00018**)
Lee, Donq-Liang Complex-valued neural associative memories: network stability and learning algorithm. (*see* **2005b:00018**)
Lee, Inkyu Modification of the MAP algorithm for memory savings. (English summary) **2005j:94042**
López Gondar, J. (*with* Cipolatti, R.) A mathematical model for virus infection in a system of interacting computers. (English summary) **2005b:45005**
Lou, Der-Chyuan (*with* Wu, Chia-Long) Parallel modular exponentiation using signed-digit-folding technique. (English summary)
Ma, Yu-Chun *see* **Chen, Song et al.**
Maheshwaramurthy, G. P. *see* **Harley, Thomas R.**, 2005c:94038
Monahan, John Basic computational algorithms. (*see* **2005g:62004**)
Munro, J. Ian *see* **Brodal, Gerth Stølting et al.**, 2005m:68041
Naor, Moni *see* **Dwork, Cynthia et al.**, 2005e:94230
Niculescu, Silviu-Iulian On delay robustness analysis of a simple control algorithm in high-speed networks. (English summary)
Sen, Sandeep (*with* Chatterjee, Siddhartha; Dumir, Neeraj) Towards a theory of cache-efficient algorithms. (English summary) **2005m:68271**
Sofroniou, Mark (*with* Spaletta, Giulia) Precise numerical computation. (English summary) **2005m:65102**
Spaletta, Giulia *see* **Sofroniou, Mark**, 2005m:65102
Sunwoo, Myung H. *see* **Jo, Byung G.**
Vuillemin, Jean Digital algebra and circuits. (English summary) **2005g:94147**
Wu, Chia-Long *see* **Lou, Der-Chyuan**
Yoo, Kee-Young *see* **Kim, Hyun-Sung**, 2005e:94301

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68N01 General

Kutsia, Temur *see* **Marin, Mircea**
Marin, Mircea (*with* Kutsia, Temur) Programming with transformation rules. (English summary)

Items with secondary classifications in 68N01

Fu, Zhi Xiang *see* **Wang, Xiao Dong[1] et al.**
Lilius, Johan (*with* Østerbye, Kasper) Guest editors' foreword: Programming and software development environment research in the Nordic countries.
Østerbye, Kasper *see* **Lilius, Johan**
Wang, Xiao Dong[1] (*with* Wu, Ying Jie; Fu, Zhi Xiang) Induction and loop invariants for algorithm design. (Chinese. English and Chinese summaries)
Wu, Ying Jie *see* **Wang, Xiao Dong[1] et al.**

68N15 Programming languages

Abramsky, Samson (*with* Jagadeesan, Radha) A game semantics for generic polymorphism. (English summary) (*see* **2005b:68014**)
Ancona, Davide (*with* Fagorzi, Sonia; Moggi, Eugenio; Zucca, Elena) Mixin modules and computational effects. (English summary) (*see* **2005b:68008**)
— (*with* Fagorzi, Sonia; Zucca, Elena) A calculus for dynamic linking. (English summary) (*see* **2005b:68027**)
Atiya, Diyaa-Addein (*with* King, Steve; Woodcock, Jim C. P.) A *Circus* semantics for Ravenscar protected objects. (English summary) (*see* **2005b:68013**)
Bartoletti, Massimo (*with* Degano, Pierpaolo; Ferrari, Gian Luigi) Security-aware program transformations. (English summary) (*see* **2005b:68027**)
Besson, Frédéric (*with* de Grenier de Latour, Thomas; Jensen, Thomas P.) Interfaces for stack inspection. (English summary) **2005k:68017**
Cardelli, Luca (*with* Gardner, Philippa; Ghelli, Giorgio) Manipulating trees with hidden labels. (English summary) (*see* **2005b:68014**)
Coquery, Emmanuel (*with* Fages, François) Subtyping constraints in quasi-lattices. (English summary) **2005e:68019**
Crary, Karl (*with* Kliger, Aleksey; Pfenning, Frank) A monadic analysis of information flow security with mutable state. (English summary) **2005k:68018**
Degano, Pierpaolo *see* **Bartoletti, Massimo et al.**, (**2005b:68027**)
Dunfield, Joshua (*with* Pfenning, Frank) Type assignment for intersections and unions in call-by-value languages. (English summary) (*see* **2005b:68014**)
Fages, François *see* **Coquery, Emmanuel**, 2005e:68019
Fagorzi, Sonia *see* **Ancona, Davide et al.**, (**2005b:68027**) *and* (**2005b:68008**)
Ferrari, Gian Luigi *see* **Bartoletti, Massimo et al.**, (**2005b:68027**)
Gardner, Philippa *see* **Cardelli, Luca et al.**, (**2005b:68014**)
Ghelli, Giorgio *see* **Cardelli, Luca et al.**, (**2005b:68014**)
Ghica, Dan R. (*with* McCusker, Guy) The regular-language semantics of second-order idealized Algol. (English summary) **2005g:68013**
de Grenier de Latour, Thomas *see* **Besson, Frédéric et al.**, 2005k:68017
Hinze, Ralf (*with* Jeuring, Johan; Löh, Andres) Type-indexed data types. (English summary)
Honsell, Furio (*with* Miculan, Marino; Scagnetto, Ivan) An axiomatic approach to metareasoning on nominal algebras in HOAS. (English summary) (*see* **2005a:68007**)
Jagadeesan, Radha *see* **Abramsky, Samson**, (**2005b:68014**)
Jensen, Thomas P. *see* **Besson, Frédéric et al.**, 2005k:68017
Jeuring, Johan *see* **Hinze, Ralf et al.**
King, Steve *see* **Atiya, Diyaa-Addein et al.**, (**2005b:68013**)
Kliger, Aleksey *see* **Crary, Karl et al.**, 2005k:68018
Knuth, Donald E. ★ Selected papers on computer languages. **2005b:68045**
Löh, Andres *see* **Hinze, Ralf et al.**
McCusker, Guy *see* **Ghica, Dan R.**, 2005g:68013
Miculan, Marino *see* **Honsell, Furio et al.**, (**2005a:68007**)
Moggi, Eugenio *see* **Ancona, Davide et al.**, (**2005b:68008**)
Ong, C.-H. Luke An approach to deciding the observational equivalence of Algol-like languages. (English summary) **2005i:68010**
Pfenning, Frank *see* **Crary, Karl et al.**, 2005k:68018 *and* **Dunfield, Joshua**, (2005b:68014)
Scagnetto, Ivan *see* **Honsell, Furio et al.**, (**2005a:68007**)
Selinger, Peter Towards a quantum programming language. (English summary) **2005e:68020**
Woodcock, Jim C. P. *see* **Atiya, Diyaa-Addein et al.**, (**2005b:68013**)
Zucca, Elena *see* **Ancona, Davide et al.**, (**2005b:68027**) *and* (**2005b:68008**)

Items listed otherwise than by author

Collected Works:
Knuth, Donald E. *see* **Knuth, Donald E.**, 2005b:68045
Selected papers on computer languages *see* **Knuth, Donald E.**, 2005b:68045

Items with secondary classifications in 68N15

Abel, Andreas Termination checking with types. (English summary) **2005f:68018**
Banerjee, Anindya[2] (*with* Naumann, David A.) Stack-based access control and secure information flow. (English summary) **2005k:68023**
Benke, Marcin (*with* Dybjer, Peter; Jansson, Patrik) Universes for generic programs and proofs in dependent type theory. (English summary) **2005d:68026**
Berger, Martin Friedrich (*with* Honda, Kohei; Yoshida, Nobuko) Genericity and the π-calculus. (English summary) (*see* **2005b:68014**)
Bilardi, Gianfranco (*with* Pingali, Keshav) Algorithms for computing the static single assignment form. (English summary) **2005m:68040**
Bordini, Rafael H. (*with* Moreira, Álvaro F.) Proving BDI properties of agent-oriented programming languages: the asymmetry thesis principles in AgentSpeak(L). (English summary) **2005h:68014**
Cardone, Felice (*with* Coppo, Mario) Decidability properties of recursive types. (English summary) (*see* **2005b:68027**)
Coppo, Mario *see* **Cardone, Felice**, (**2005b:68027**)
Curien, Pierre-Louis Abstract machines, control, and sequents. (English summary) (*see* **2005b:68006**)
Dybjer, Peter *see* **Benke, Marcin et al.**, 2005d:68026
Giacobazzi, Roberto (*with* Ranzato, Francesco; Scozzari, Francesca) Making abstract domains condensing. (English summary) **2005j:68075**
Gupta, Gopal (*with* Pontelli, Enrico) Specification, implementation, and verification of domain specific languages: a logic programming-based approach. (English summary) (*see* **2005f:68005a**)
Haack, Christian (*with* Wells, Joe B.) Type error slicing in implicitly typed higher-order languages. (English summary) **2005a:68038**

Hamid, Nadeem Abdul (*with* Shao, Zhong) Interfacing Hoare logic and type systems for foundational proof-carrying code. (English summary) (*see* **2005m:68012**)
Hamrin, G. (*with* Stoltenberg-Hansen, V.) Cartesian closed categories of effective domains. **2005b:68183**
Hannay, Jo Axiomatic criteria for quotients and subobjects for higher-order data types. (English summary) (*see* **2005b:68008**)
Honda, Kohei (*with* Yoshida, Nobuko) Noninterference through flow analysis. (English summary) **2005m:68158**
— *see also* **Berger, Martin Friedrich et al.**, (**2005b:68014**)
Jansson, Patrik *see* **Benke, Marcin et al.**, **2005d:68026**
King, Andrew Malcolm (*with* Lu, Lunjin) A backward analysis for constraint logic programs. (English summary) **2005f:68080**
Kristiansen, Lars (*with* Voda, Paul J.) The surprising power of restricted programs and Gödel's functionals. **2005a:03082**
Kristiansen, Lill (*with* Niggl, Karl-Heinz) On the computational complexity of imperative programming languages. (English summary) **2005g:03056**
Kutsia, Temur *see* **Marin, Mircea**
Levy, Paul Blain ★ Call-by-push-value. **2005d:68081**
Liang, Chuck (*with* Nadathur, Gopalan) Tradeoffs in the intensional representation of lambda terms. (English summary) (*see* **2005b:68022**)
Lu, Lunjin *see* **King, Andrew Malcolm**, **2005f:68080**
Marin, Mircea (*with* Kutsia, Temur) Programming with transformation rules. (English summary)
Moreira, Álvaro F. *see* **Bordini, Rafael H.**, **2005h:68014**
Nadathur, Gopalan *see* **Liang, Chuck**, (**2005b:68022**)
Nakata, Masahiro (*with* Saneto, Norimichi; Yasugi, Mariko) An application of $\mathrm{NDJ}_{\mathrm{PROP}}$ to the catch and throw mechanism. (English summary) **2005g:03018**
Naumann, David A. *see* **Banerjee, Anindya²**, **2005k:68023**
Niggl, Karl-Heinz Control structures in programs and computational complexity. (English summary) **2005m:03080**
— *see also* **Kristiansen, Lill**, **2005g:03056**
Pingali, Keshav *see* **Bilardi, Gianfranco**, **2005m:68040**
Plotkin, Gordon D. The origins of structural operational semantics. (English summary) **2005e:68002**
— A structural approach to operational semantics. **2005e:68003**
Pontelli, Enrico *see* **Gupta, Gopal**, (**2005f:68005a**)
Raffalli, C. Getting results from programs extracted from classical proofs. (English summary) **2005e:03066**
Ranzato, Francesco *see* **Giacobazzi, Roberto et al.**, **2005j:68075**
Reddy, Uday S. (*with* Yang, Hongseok) Correctness of data representations involving heap data structures. (English summary) **2005a:68054**
Saneto, Norimichi *see* **Nakata, Masahiro et al.**, **2005g:03018**
Schöpp, Ulrich (*with* Stark, Ian) A dependent type theory with names and binding. (English summary) **2005m:03021**
Scozzari, Francesca *see* **Giacobazzi, Roberto et al.**, **2005j:68075**
Shao, Zhong *see* **Hamid, Nadeem Abdul**, (**2005m:68012**)
Stark, Ian *see* **Schöpp, Ulrich**, **2005m:03021**
Stoltenberg-Hansen, V. *see* **Hamrin, G.**, **2005b:68183**
Voda, Paul J. *see* **Kristiansen, Lars**, **2005a:03082**
Wells, Joe B. The essence of principal typings. (English summary) (*see* **2005a:68008**)
— *see also* **Haack, Christian**, **2005a:68038**
Yang, Hongseok *see* **Reddy, Uday S.**, **2005a:68054**
Yasugi, Mariko *see* **Nakata, Masahiro et al.**, **2005g:03018**
Yoshida, Nobuko *see* **Honda, Kohei**, **2005m:68158** *and* **Berger, Martin Friedrich et al.**, (**2005b:68014**)
Zamulin, A. V. Algebraic semantics of an imperative programming language. (Russian)

68N17 Logic programming

Akman, Varol *see* **Sabuncu, Orkunt et al.**, (**2005b:68018**)
Alferes, José Júlio (*with* Pereira, Luís Moniz) Logic programming updating—a guided approach. (English summary) (*see* **2005f:68005b**)
— (*with* Banti, Federico; Brogi, Antonio; Leite, João Alexandre) Semantics for dynamic logic programming: a principle-based approach. (English summary) (*see* **2005b:68018**)
— (*with* Pereira, Luís Moniz; Swift, Terrance) Abduction in well-founded semantics and generalized stable models via tabled dual programs. (English summary) **2005b:68046**
— (*with* Banti, Federico; Brogi, Antonio; Leite, João Alexandre) The refined extension principle for semantics of dynamic logic programming. (English summary) **2005m:68028**
Alpaslan, Ferda N. *see* **Sabuncu, Orkunt et al.**, (**2005b:68018**)
Alpuente, María (*with* Lucas, Salvador; Vidal, Germán; Hanus, Michael) Specialization of functional logic programs based on needed narrowing. (English summary) **2005m:68029**
Andrews, James H. The witness properties and the semantics of the Prolog cut. (English summary) **2005e:68021**
Arias, Marta (*with* Khardon, Roni) Complexity parameters for first-order classes. (English summary) (*see* **2005b:68016**)
Aronsson, Martin *see* **Sjöland, Thomas et al.**, (**2005f:68005a**)
Arrazola, José *see* **Osorio, Mauricio et al.**, **2005f:68016**
Bader, Sebastian (*with* Hitzler, Pascal) Logic programs, iterated function systems, and recurrent radial basis function networks. (English summary) **2005e:68022**
Bagnara, Roberto (*with* Gori, Roberta; Hill, Patricia M.; Zaffanella, Enea) Finite-tree analysis for constraint logic-based languages. (English summary) **2005d:68021**
— (*with* Zaffanella, Enea; Hill, Patricia M.) Enhanced sharing analysis techniques: a comprehensive evaluation. (English summary)
— *see also* **Hill, Patricia M. et al.**, **2005b:68050**
Banerjee, Rabindra Nath (*with* Bujosa, A.) A geometric interpretation of LD-resolution. (English summary) **2005a:68029**
Banti, Federico *see* **Alferes, José Júlio et al.**, **2005m:68028** *and* (**2005b:68018**)
Baral, Chitta (*with* Gelfond, Michael; Rushton, Nelson) Probabilistic reasoning with answer sets. (English summary) (*see* **2005b:68018**)
— *see also* **Son, Tran Cao et al.**, (**2005b:68018**)
Bertino, Elisa (*with* Perlasca, Paolo; Catania, Barbara) Introducing dynamic behavior in amalgamated knowledge bases. (English summary) **2005d:68022**
Bonatti, Piero A. Reasoning with infinite stable models. (English summary) **2005b:68047**
Bordini, Rafael H. (*with* Moreira, Álvaro F.) Proving BDI properties of agent-oriented programming languages: the asymmetry thesis principles in AgentSpeak(L). (English summary) **2005h:68014**
Bossi, Annalisa (*with* Cocco, Nicoletta; Etalle, Sandro) Transformation systems and nondeclarative properties. (English summary) (*see* **2005f:68005a**)
— (*with* Etalle, Sandro; Rossi, Sabina; Smaus, Jan-Georg) Termination of simply moded logic programs with dynamic scheduling. (English summary) **2005a:68030**
Braßel, Bernd (*with* Hanus, Michael; Huch, Frank) Encapsulating non-determinism in functional logic computations. (English summary)
Brewka, Gerhard Answer sets: from constraint programming towards qualitative optimization. (English summary) (*see* **2005b:68018**)
— (*with* Niemelä, Ilkka; Syrjänen, Tommi) Logic programs with ordered disjunction. (English summary) **2005a:68031**
Broda, Krysia *see* **Ray, Oliver et al.**, **2005h:68017**
Brogi, Antonio *see* **Alferes, José Júlio et al.**, **2005m:68028** *and* (**2005b:68018**)
Bruynooghe, Maurice *see* **Pelov, Nikolay et al.**, (**2005b:68018**)
Buccafurri, Francesco (*with* Gottlob, Georg) Multiagent compromises, joint fixpoints, and stable models. (English summary) (*see* **2005f:68005a**)
Bujosa, A. *see* **Banerjee, Rabindra Nath**, **2005a:68029**
Catania, Barbara *see* **Bertino, Elisa et al.**, **2005d:68022**
Cenzer, Douglas (*with* Remmel, Jeffrey B.; Vanderbilt, Amy) Locally determined logic programs and recursive stable models. (English summary) **2005b:68048**
Cocco, Nicoletta *see* **Bossi, Annalisa et al.**, (**2005f:68005a**)
Codish, Michael *see* **Genaim, Samir**, **2005i:68013**
Davison, Andrew Logic programming languages for the internet. (English summary) (*see* **2005f:68005a**)
Delgrande, James P. (*with* Schaub, Torsten; Tompits, Hans) A framework for compiling preferences in logic programs. (English summary) **2005d:68023**
Denecker, Marc (*with* Kakas, Antonios C.) Abduction in logic programming. (English summary) (*see* **2005f:68005a**)
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(King, Ross D.) *see* **Inductive logic programming, 2005m:68010**
Klíma, Ondřej Unification modulo associativity and idempotency is NP-complete. (English summary) (*see* **2005b:68019**)
(Kowalski, Robert A.) *see* **Computational logic: logic programming and beyond. Part I, 2005f:68005a** *and* **Computational logic: logic programming and beyond. Part II, 2005f:68005b**
Krajči, Stanislav (*with* Lencses, Rastislav; Vojtáš, Peter) A comparison of fuzzy and annotated logic programming. (English summary) **2005b:68245**
— *see also* **Vojtáš, Peter et al.**
Lämmel, Ralf Evolution of rule-based programs. (English summary) **2005a:68127**
Lau, Kung-Kiu (*with* Ornaghi, Mario) Logic for component-based software development. (*see* **2005f:68005a**)
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Leone, Nicola *see* **Eiter, Thomas et al., 2005b:68235**
Leuschel, Michael (*with* Podelski, Andreas; Ramakrishnan, C. R.; Ultes-Nitsche, Ulrich) Introduction to the special issue on verification and computational logic.
Li, Meng Jun (*with* Li, Zhou Jun; Chen, Huo Wang) Verifying security protocols based on logic program. (Chinese. English and Chinese summaries)
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Lifschitz, Vladimir *see* **Logic programming and nonmonotonic reasoning, 2005b:68018** *and* **Doğandağ, Semra et al., (2005b:68018)**
Lloyd, John W. Higher-order computational logic. (English summary) (*see* **2005f:68005a**)
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Miller, Robert Simon (*with* Shanahan, Murray) Some alternative formulations of the event calculus. (English summary) (*see* **2005f:68005b**)
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Nguyen, Linh Anh (*with* Goré, Rajeev) Completeness of hyper-resolution via the semantics of disjunctive logic programs. (English summary)
(Niemelä, Ilkka) *see* **Logic programming and nonmonotonic reasoning, 2005b:68018**
Nutt, Werner *see* **Cohen, Sara et al., 2005k:68039**
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Pettorossi, Alberto (*with* Proietti, Maurizio) Program derivation = rules + strategies. (English summary) (*see* **2005f:68005a**)
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Shen, Zhizhang A study of a generalization of a card problem. (English summary) 2005m:05019
Shmueli, Oded *see* **Halevy, Alon Y. et al.**, 2005m:68056
Siekmann, Jörg (*with* Wrightson, Graham) An open research problem: strong completeness of R. Kowalski's connection graph proof procedure. (English summary) 2005g:03015
Sipma, Henny B. *see* **Zhang, Ting[3] et al.**, (2005m:68012)
Srinivasan, Ashwin *see* **Inductive logic programming**, 2005m:68010 *and* **Santos Costa, Vítor et al.**
Stolle, Reinhard (*with* Hogan, Apollo; Bradley, Elizabeth) Agenda control for heterogeneous reasoners. (English summary)
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Van Laer, Wim *see* **Santos Costa, Vítor et al.**
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Vermeulen, C. F. M. Axiomatization of a denotational semantics for first-order logic. (English summary) 2005h:68088
Vojtáš, Peter (*with* Horváth, Tomáš; Krajči, Stanislav; Lencses, Rastislav) An ILP model for a monotone graded classification problem. (English summary)
— *see also* **Krajči, Stanislav et al.**, 2005b:68245
Wang, Jie[1] (*with* Ju, Shier; Luo, Xudong; Hu, Jueliang) Probabilistic logic programming with inheritance. (English summary) 2005a:68191
Wheeler, Gregory R. (*with* Pereira, Luís Moniz) Epistemology and artificial intelligence. (English summary) 2005g:68160
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Wrightson, Graham *see* **Siekmann, Jörg**, 2005g:03015
Xie, Li Cong (*with* Yu, Jian Jia; Zhang, Ying) Rewriting algorithms of Boolean queries. (Chinese. English and Chinese summaries)
(Yamamoto, Akihiro) *see* **Inductive logic programming**, 2005b:68016
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Zaniolo, Carlo Key constraints and monotonic aggregates in deductive databases. (English summary) 2005g:68030
Zhang, Ting[3] (*with* Sipma, Henny B.; Manna, Zohar) Term algebras with length function and bounded quantifier alternation. (English summary) (*see* 2005m:68012)
Zhang, Yan[1] Handling defeasibilities in action domains. (English summary) 2005b:68233
Zhang, Ying *see* **Xie, Li Cong et al.**

Items listed otherwise than by author

Computational logic: logic programming and beyond. Part I ★ Computational logic: logic programming and beyond. Part I. 2005f:68005a
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— ★ Inductive logic programming. 2005m:68010
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— ★ Computational logic: logic programming and beyond. Part II. 2005f:68005b
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— ★ Inductive logic programming. 2005m:68010
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Szeged ★ Inductive logic programming. 2005b:68016

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Baillot, Patrick Type inference for light affine logic via constraints on words. (English summary) 2005k:68020
Barthe, Gilles (*with* Coquand, Thierry) An introduction to dependent type theory. (English summary) (*see* 2005b:68006)
— (*with* Coquand, Thierry) Remarks on the equational theory of non-normalizing pure type systems. (English summary) 2005a:68037
Bauer, Andrej (*with* Escardó, Martín Hötzel; Simpson, Alex) Comparing functional paradigms for exact real-number computation. (English summary) (*see* 2005a:68008)
Benke, Marcin (*with* Dybjer, Peter; Jansson, Patrik) Universes for generic programs and proofs in dependent type theory. (English summary) 2005d:68026
Benton, Nick (*with* Hyland, J. Martin E.) Traced premonoidal categories. (English summary) 2005f:68019
Benzinger, Ralph Automated higher-order complexity analysis. (English summary) 2005e:68025
Berghofer, Stefan Program extraction in simply-typed higher order logic. (English summary) (*see* 2005a:68017)
Bird, Richard S. *see* **Mu, Shin-Cheng**, 2005b:68060
Caballero, Rafael (*with* López-Fraguas, Francisco J.) Improving deterministic computations in lazy functional logic languages. (English summary)
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— (*with* Nielsen, Lasse R.) CPS transformation of beta-redexes. (English summary) 2005k:68021
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Florido, Mário (*with* Damas, Luís) Linearization of the lambda-calculus and its relation with intersection type systems. (English summary) 2005e:68027
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Haack, Christian (*with* Wells, Joe B.) Type error slicing in implicitly typed higher-order languages. (English summary) 2005a:68038
Hinze, Ralf Editorial: [Special issue on functional pearls].
Huet, Gérard Automata mista. (English summary) (*see* 2005d:68014)
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Joachimski, Felix *see* **Aehlig, Klaus**, 2005e:68024
Johann, Patricia On proving the correctness of program transformations based on free theorems for higher-order polymorphic calculi. (English summary) 2005k:68022
Jürgensen, Claus (*with* Vogler, Heiko) Syntactic composition of top-down tree transducers is short cut fusion. (English summary) 2005a:68039
Kollár, Ján The conception and application of PFL: a process functional programming language. (English and Ukrainian summaries)
Konečný, Michal Typing with conditions and guarantees for functional in-place update. (English summary) (*see* 2005a:68017)
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— Game semantics and linear CPS interpretation. (English summary) 2005j:68022
Liang, Chuck (*with* Nadathur, Gopalan) Tradeoffs in the intensional representation of lambda terms. (English summary) (*see* 2005b:68022)
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Moggi, Eugenio (*with* Sabry, Amr) An abstract monadic semantics for value recursion. (English summary) 2005f:68020
Momigliano, Alberto (*with* Ambler, Simon J.) Multi-level meta-reasoning with higher-order abstract syntax. (English summary) (*see* 2005b:68014)
Mu, Shin-Cheng (*with* Bird, Richard S.) Theory and applications of inverting functions as folds. (English summary) 2005b:68060
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Osorio, Mauricio (*with* Nieves, Juan Carlos; Jayaraman, Bharat) Aggregation in functional query languages. (English summary) 2005h:68018
Peña, Ricardo (*with* Segura, Clara) Non-determinism analyses in a parallel-functional language. (English summary)
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Sánchez Alvarez, Daniel (*with* Gómez Skarmeta, Antonio F.) A fuzzy language. (English summary) 2005a:68040
Schürmann, Carsten (*with* Pfenning, Frank) A coverage checking algorithm for LF. (English summary) (*see* 2005b:68026)
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Thiyagarajan, M. (*with* Sairam, N.) Power of folder in functional programming. (English summary)
van Tonder, André A lambda calculus for quantum computation. (English summary) **2005e:68028**
Tsuiki, Hideki Real number computation with committed choice logic programming languages. (English summary) **2005m:68039**
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Braßel, Bernd (*with* Hanus, Michael; Huch, Frank) Encapsulating non-determinism in functional logic computations. (English summary)
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Cardone, Felice (*with* Coppo, Mario) Decidability properties of recursive types. (English summary) (*see* **2005b:68027**)
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Dezani-Ciancaglini, Mariangiola (*with* Meyer, Robert K.; Motohama, Yoko) The semantics of entailment omega. (English summary) **2005a:03044**
— (*with* Ghilezan, Silvia) Two behavioural lambda models. (English summary) (*see* **2005a:68017**)
— (*with* Ghilezan, Silvia; Likavec, Silvia) Behavioural inverse limit λ-models. (English summary) **2005d:03027**
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— *see also* **Lengrand, Stéphane et al.**, **2005h:03036**
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Kamareddine, Fairouz D. (*with* Laan, Twan; Nederpelt, Rob) ★ A modern perspective on type theory. **2005d:03016**
— (*with* Bloo, Roel) De Bruijn's syntax and reductional behaviour of λ-terms: the untyped case. (English summary) **2005i:03018**
— (*with* Bloo, Roel) De Bruijn's syntax and reductional behaviour of λ-terms: the typed case. (English summary) **2005m:03032**
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Kennaway, J. R. (*with* Khasidashvili, Zurab; Piperno, Adolfo) Static analysis of modularity of β-reduction in the hyperbalanced λ-calculus. (English summary) (*see* **2005b:68022**)
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Levy, Paul Blain ★ Call-by-push-value. **2005d:68081**
Likavec, Silvia *see* **Dezani-Ciancaglini, Mariangiola et al.**, **2005d:03027**
Löh, Andres *see* **Hinze, Ralf et al.**
Longo, Giuseppe[1] Proofs and programs. **2005a:03027**
Lucas, Salvador *see* **Alpuente, María et al.**, **2005m:68029**
Luo, Yong[3] *see* **Luo, Zhaohui**, **2005m:03020**
Luo, Zhaohui (*with* Luo, Yong[3]) Transitivity in coercive subtyping. (English summary) **2005m:03020**
Lusin, Stefania (*with* Salibra, Antonino) The lattice of lambda theories. (English summary) **2005g:03017**
Mackie, Ian *see* **Fernández, Maribel et al.**, **2005m:03031**
Manes, Ernie Monads of sets. **2005a:18007**
Meyer, Robert K. *see* **Dezani-Ciancaglini, Mariangiola et al.**, **2005a:03044**
Miculan, Marino *see* **Honsell, Furio et al.**, (**2005a:68007**)
Moggi, Eugenio *see* **Benton, Nick et al.**, (**2005b:68006**)
Mossakowski, Till *see* **Schröder, Lutz**, **2005c:68178**
Motohama, Yoko *see* **Dezani-Ciancaglini, Mariangiola et al.**, **2005a:03044**
de Moura, Flávio L. C. *see* **Ayala-Rincón, Mauricio et al.**, **2005m:03030**
Nadathur, Gopalan A treatment of higher-order features in logic programming. (English summary) **2005m:68034**
Nakata, Masahiro (*with* Saneto, Norimichi; Yasugi, Mariko) An application of $\mathrm{NDJ}_{\mathrm{PROP}}$ to the catch and throw mechanism. (English summary) **2005g:03018**
Nederpelt, Rob *see* **Kamareddine, Fairouz D. et al.**, **2005d:03016**
Niggl, Karl-Heinz Control structures in programs and computational complexity. (English summary) **2005m:03080**
Ong, C.-H. Luke (*with* Di Gianantonio, Pietro) Games characterizing Levy-Longo trees. (English summary) (*see* **2005a:68008**)
Pfenning, Frank *see* **Cervesato, Iliano**, **2005i:03016** *and* **Harper, Robert**, **2005i:03017**
Piperno, Adolfo *see* **Kennaway, J. R. et al.**, (**2005b:68022**)
Pitts, Andrew M. Operational semantics and program equivalence. (English summary) (*see* **2005b:68006**)
Poernomo, Iman (*with* Crossley, John N.) The Curry-Howard isomorphism adapted for imperative program synthesis and reasoning. (English summary) **2005a:68136**
— *see also* **Jeavons, John et al.**, **2005b:03035**
Raffalli, C. Getting results from programs extracted from classical proofs. (English summary) **2005e:03066**
Regnier, Laurent *see* **Ehrhard, Thomas**, **2005h:03035**

Rodríguez, Ismael *see* **Rubio, Fernando**, (2005c:00015)
Rubio, Fernando (*with* Rodríguez, Ismael) A parallel framework for computational science. (English summary) (*see* **2005c:00015**)
Salibra, Antonino *see* **Bucciarelli, Antonio**, 2005c:03021 *and* **Lusin, Stefania**, 2005g:03017
Salvati, Sylvain (*with* de Groote, Philippe) On the complexity of higher-order matching in the linear λ-calculus. (English summary) (*see* **2005a:68016**)
Saneto, Norimichi *see* **Nakata, Masahiro et al.**, 2005g:03018
Scagnetto, Ivan *see* **Honsell, Furio et al.**, (2005a:68007)
Schöpp, Ulrich (*with* Stark, Ian) A dependent type theory with names and binding. (English summary) **2005m:03021**
Schröder, Lutz (*with* Mossakowski, Till) Monad-independent dynamic logic in HasCasl. (English summary) **2005c:68178**
Schwichtenberg, Helmut *see* **Berger, Ulrich et al.**, 2005a:68108
Severi, Paula (*with* de Vries, Fer-Jan) An extensional Böhm model. (English summary) (*see* **2005b:68022**)
Sinot, François-Régis *see* **Fernández, Maribel et al.**, 2005m:03031
Stark, Ian *see* **Schöpp, Ulrich**, 2005m:03021
Statman, Rick On the λY calculus. (English summary) **2005e:03027**
Streicher, Thomas *see* **Escardó, Martín Hötzel et al.**, 2005k:68127
Touratier, E. Étude du typage dans le système de calcul scientifique Aldor. [Study of typing in the computer algebra system Aldor] **2005f:68173**
Vidal, Germán *see* **Alpuente, María et al.**, 2005m:68029
de Vries, Fer-Jan *see* **Severi, Paula**, (2005b:68022)
Wadler, Philip The Girard-Reynolds isomorphism. (English summary) **2005a:03035**
Wells, Joe B. The essence of principal typings. (English summary) (*see* **2005a:68008**)
(Wiedijk, Freek) *see* **Types for proofs and programs**, 2005a:68017
Yamagata, Yoriyuki Strong normalization of the second-order symmetric $\lambda\mu$-calculus. (English summary) **2005e:03028**
Yasugi, Mariko *see* **Nakata, Masahiro et al.**, 2005g:03018
Yoshida, Nobuko *see* **Berger, Martin Friedrich et al.**, (2005b:68014)

Items listed otherwise than by author

Berg en Dal ★ Types for proofs and programs. **2005a:68017**
Lecture Notes in Computer Science ★ Types for proofs and programs. **2005a:68017**
Types for proofs and programs ★ Types for proofs and programs. **2005a:68017**

68N19 Other programming techniques (object-oriented, sequential, concurrent, automatic, etc.)

Abadi, Martín (*with* Leino, K. Rustan M.) A logic of object-oriented programs. (English summary) **2005e:68029**
Agusa, Kiyoshi *see* **Kuwabara, Hiroaki et al.**
Alstrup, Stephen (*with* Brodal, Gerth Stølting; Gørtz, Inge Li; Rauhe, Theis) Time and space efficient multi-method dispatching. (English summary) (*see* **2005a:68002**)
Banerjee, Anindya[2] (*with* Naumann, David A.) Stack-based access control and secure information flow. (English summary) **2005k:68023**
Borba, Paulo (*with* Sampaio, Augusto; Cavalcanti, Ana; Cornélio, Márcio) Algebraic reasoning for object-oriented programming. (English summary)
Boudol, Gérard The recursive record semantics of objects revisited. (English summary) **2005c:68031**
Brodal, Gerth Stølting *see* **Alstrup, Stephen et al.**, (2005a:68002)
Cavalcanti, Ana *see* **Borba, Paulo et al.**
Chen, Zhen-Qiang (*with* Xu, Bao-Wen; Zhou, Yu-Ming) Measuring class cohesion based on dependence analysis. (English summary)
Compagnoni, Adriana (*with* Goguen, Healfdene) Typed operational semantics for higher-order subtyping. (English summary) **2005b:68062**
Cornélio, Márcio *see* **Borba, Paulo et al.**
Goguen, Healfdene *see* **Compagnoni, Adriana**, 2005b:68062
Gørtz, Inge Li *see* **Alstrup, Stephen et al.**, (2005a:68002)
Große-Rhode, Martin Integrating semantics for object-oriented system models. (English summary) (*see* **2005a:68007**)
Hajdara, Sz. (*with* Kozma, László[2]; Ugron, B.) Synthesis of a system composed by many similar objects. (English summary)
Kerbœuf, Mickaël (*with* Talpin, Jean-Pierre) Encapsulation and behavioral inheritance in a synchronous model of computation for embedded system services adaptation. (English summary) **2005k:68024**
Kozma, László[2] *see* **Hajdara, Sz. et al.**
Kuwabara, Hiroaki (*with* Yuen, Shoji; Agusa, Kiyoshi) A formal description of a real-time object-oriented language by the π-calculus with time. (Japanese. English and Japanese summaries)
Leino, K. Rustan M. *see* **Abadi, Martín**, 2005e:68029
Naumann, David A. *see* **Banerjee, Anindya[2]**, 2005k:68023
Rauhe, Theis *see* **Alstrup, Stephen et al.**, (2005a:68002)
Sampaio, Augusto *see* **Borba, Paulo et al.**
Talpin, Jean-Pierre *see* **Kerbœuf, Mickaël**, 2005k:68024
Thorup, Mikkel Space efficient dynamic stabbing with fast queries. (English summary) **2005k:68025**
Ugron, B. *see* **Hajdara, Sz. et al.**
Xu, Bao-Wen *see* **Chen, Zhen-Qiang et al.**
Yuen, Shoji *see* **Kuwabara, Hiroaki et al.**
Zhou, Yu-Ming *see* **Chen, Zhen-Qiang et al.**

Items with secondary classifications in 68N19

Ábrahám-Mumm, Erika (*with* de Boer, Frank S.; de Roever, Willem-Paul; Steffen, Martin) An assertion-based proof system for multithreaded java. (English summary)
Abramsky, Samson (*with* Jagadeesan, Radha) A game semantics for generic polymorphism. (English summary) (*see* **2005b:68014**)
Alur, Rajeev Formal analysis of hierarchical state machines. (English summary) **2005e:68139**
Arbab, Farhad Abstract behavior types: a foundation model for components and their composition. (English summary) **2005h:68097**
Atiya, Diyaa-Addein (*with* King, Steve; Woodcock, Jim C. P.) A *Circus* semantics for Ravenscar protected objects. (English summary) (*see* **2005b:68013**)
van Bakel, Steffen (*with* de'Liguoro, Ugo) Logical semantics for the first order ζ-calculus. (English summary) (*see* **2005b:68027**)
de Boer, Frank S. *see* **Ábrahám-Mumm, Erika et al.**
Bognár, Katalin[2] A classification based approach to case based reasoning. (Hungarian. English and Hungarian summaries)
Borisov, E. S. A semi-automatic system for the decomposition of sequential programs for parallel computers with distributed memory. (Russian. English and Ukrainian summaries)
Cardone, Felice (*with* Coppo, Mario) Decidability properties of recursive types. (English summary) (*see* **2005b:68027**)
Clark, Keith (*with* Robinson, Peter J.) Agents as multi-threaded logical objects. (English summary) (*see* **2005f:68005a**)
Compagnoni, Adriana Higher-order subtyping and its decidability. (English summary) **2005d:03026**
Coppo, Mario *see* **Cardone, Felice**, (2005b:68027)
Dragoni, Nicola (*with* Gaspari, Mauro) An object based algebra for specifying a fault tolerant software architecture. (English summary) **2005k:68027**
Fournet, Cédric (*with* Laneve, Cosimo; Maranget, Luc; Rémy, Didier) Inheritance in the join calculus. (English summary) **2005c:68200**
Gaspari, Mauro *see* **Dragoni, Nicola**, 2005k:68027
Jagadeesan, Radha *see* **Abramsky, Samson**, (2005b:68014)
King, Steve *see* **Atiya, Diyaa-Addein et al.**, (2005b:68013)
Laneve, Cosimo *see* **Fournet, Cédric et al.**, 2005c:68200
de'Liguoro, Ugo *see* **van Bakel, Steffen**, (2005b:68027)
Lumpe, M. (*with* Schneider, J.-G.) A form-based meta-model for software composition. (English summary)
Malkowsky, Eberhard Visualisation and animation in mathematics and physics. (English summary) **2005j:53005a**
— *see also* **Veličković, Vesna**, **2005j:53005b**
Maranget, Luc *see* **Fournet, Cédric et al.**, 2005c:68200
Rémy, Didier Using, understanding, and unraveling the OCaml language from practice to theory and vice versa. (English summary) (*see* **2005b:68006**)
— *see also* **Fournet, Cédric et al.**, 2005c:68200
Reus, Bernhard (*with* Streicher, Thomas) Semantics and logic of object calculi. (English summary) **2005c:68160**
Robinson, Peter J. *see* **Clark, Keith**, (2005f:68005a)
de Roever, Willem-Paul *see* **Ábrahám-Mumm, Erika et al.**
Schneider, J.-G. *see* **Lumpe, M.**
Sekerinski, Emil Verification and refinement with fine-grained action-based concurrent objects. (English summary)
Steffen, Martin *see* **Ábrahám-Mumm, Erika et al.**
Streicher, Thomas *see* **Reus, Bernhard**, 2005c:68160
Veličković, Vesna (*with* Malkowsky, Eberhard) Analytic transformations between surfaces with animations. (English summary) **2005j:53005b**
Virius, Miroslav Object oriented computing. (*see* **2005g:62004**)
Woodcock, Jim C. P. *see* **Atiya, Diyaa-Addein et al.**, (2005b:68013)

68N20 Compilers and interpreters

Bilardi, Gianfranco (*with* Pingali, Keshav) Algorithms for computing the static single assignment form. (English summary) **2005m:68040**
Bravenboer, Martin (*with* Visser, Eelco) Rewriting strategies for instruction selection. (English summary) (*see* **2005b:68022**)
Champarnaud, Jean-Marc (*with* Nicart, Florent; Ziadi, Djelloul) Computing the follow automaton of an expression. (English summary) (*see* **2005m:68009**)
Chupaeva, I. Yu. *see* **Clauss, Philippe**
Clauss, Philippe (*with* Chupaeva, I. Yu.) Application of the symbolic approach to Bernstein expansion in the analysis and optimization of programs. (Russian. Russian summary)
Danvy, Olivier (*with* Schultz, Ulrik P.) Lambda-lifting in quadratic time. (English summary)
Farré, Jacques (*with* Fortes Gálvez, J.) Bounded-connect noncanonical discriminating-reverse parsers. (English summary) **2005a:68042**
Fortes Gálvez, J. *see* **Farré, Jacques**, **2005a:68042**
Malykh, O. N. (*with* Shakhnovskiĭ, Yu. S.) Optimization of a data dependence graph for the local microcode compaction problem. I. Formulation of the problem. (Russian. Russian summary)
— (*with* Shakhnovskiĭ, Yu. S.) Optimization of a data dependence graph for the local microcode compaction problem. II. Algorithms and experiment. (Russian. Russian summary)
Nicart, Florent *see* **Champarnaud, Jean-Marc et al.**, (2005m:68009)
Ohori, Atsushi Register allocation by proof transformation. (English summary) **2005a:68043**
Pingali, Keshav *see* **Bilardi, Gianfranco**, **2005m:68040**
Schultz, Ulrik P. *see* **Danvy, Olivier**
Shakhnovskiĭ, Yu. S. *see* **Malykh, O. N.**
Slivnik, Boštjan (*with* Vilfan, Boštjan) Improved error recovery in generated LR parsers. (English summary)
Vilfan, Boštjan *see* **Slivnik, Boštjan**
Visser, Eelco *see* **Bravenboer, Martin**, (2005b:68022)
Ziadi, Djelloul *see* **Champarnaud, Jean-Marc et al.**, (2005m:68009)

Items with secondary classifications in 68N20

Backhouse, Kevin (*with* Backhouse, Roland) Safety of abstract interpretations for free, via logical relations and Galois connections. (English summary) **2005m:68136**
Backhouse, Roland *see* **Backhouse, Kevin**, **2005m:68136**

Barbuti, Roberto (*with* Cataudella, Stefano; Tesei, Luca) Abstract interpretation against races. (English summary) **2005g:68089**
Bertsch, Eberhard L. (*with* Nederhof, Mark-Jan) Fast parallel recognition of LR language suffixes. (English summary) **2005g:68185**
Borchardt, Björn Code selection by tree series transducers. (English summary) (*see* **2005m:68009**)
Bossi, Annalisa (*with* Cocco, Nicoletta; Etalle, Sandro) Transformation systems and nondeclarative properties. (English summary) (*see* **2005f:68005a**)
Calcagno, Cristiano Two-level languages for program optimization. (English summary) **2005b:68182**
Cataudella, Stefano *see* **Barbuti, Roberto et al., 2005g:68089**
Chatterjee, Krishnendu (*with* Ma, Di; Majumdar, Rupak; Zhao, Tian; Henzinger, Thomas A.; Palsberg, Jens) Stack size analysis for interrupt-driven programs. (English summary) **2005g:68017**
Cocco, Nicoletta *see* **Bossi, Annalisa et al., (2005f:68005a)**
Darriba, V. M. *see* **Vilares Ferro, Manuel et al., 2005f:68078**
Delgrande, James P. (*with* Schaub, Torsten; Tompits, Hans) A framework for compiling preferences in logic programs. (English summary) **2005d:68023**
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Etalle, Sandro *see* **Bossi, Annalisa et al., (2005f:68005a)**
Fédèle, Carine *see* **Ponsini, Olivier et al.**
Hennessy, Matthew (*with* Rathke, Julian) Typed behavioural equivalences for processes in the presence of subtyping. (English summary) **2005e:68174**
Henzinger, Thomas A. *see* **Chatterjee, Krishnendu et al., 2005g:68017**
Ilie, Lucian (*with* Yu, Sheng) Follow automata. (English summary) **2005a:68121**
Kounalis, Emmanuel *see* **Ponsini, Olivier et al.**
Lee, Lillian Fast context-free grammar parsing requires fast Boolean matrix multiplication. (English summary) **2005m:68116**
Ma, Di *see* **Chatterjee, Krishnendu et al., 2005g:68017**
Majumdar, Rupak *see* **Chatterjee, Krishnendu et al., 2005g:68017**
Nederhof, Mark-Jan Weighted deductive parsing and Knuth's algorithm. (English summary)
— (*with* Satta, Giorgio) Tabular parsing. (*see* **2005g:68088**)
— *see also* **Bertsch, Eberhard L., 2005g:68185**
Oflazer, Kemal Dependency parsing with an extended finite-state approach. (English summary)
Palsberg, Jens *see* **Chatterjee, Krishnendu et al., 2005g:68017**
Ponsini, Olivier (*with* Fédèle, Carine; Kounalis, Emmanuel) Rewriting of imperative programs into logical equations. (English summary)
Rathke, Julian *see* **Hennessy, Matthew, 2005e:68174**
Ribadas, F. J. *see* **Vilares Ferro, Manuel et al., 2005f:68078**
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Vilares, J. *see* **Vilares Ferro, Manuel et al., 2005f:68078**
Vilares Ferro, Manuel (*with* Darriba, V. M.; Vilares, J.; Ribadas, F. J.) A formal frame for robust parsing. (English summary) **2005f:68078**
Yu, Sheng *see* **Ilie, Lucian, 2005a:68121**
Zamulin, A. V. An abstract model of a compiler as a result of the algebraic semantics of a programming language. (Russian)
Zhao, Tian *see* **Chatterjee, Krishnendu et al., 2005g:68017**

68N25 Operating systems

Albers, Susanne (*with* Büttner, Markus) Integrated prefetching and caching with read and write requests. (English summary) (*see* **2005b:68005**)
Brodal, Gerth Stølting (*with* Fagerberg, Rolf) Cache oblivious distribution sweeping. (English summary) (*see* **2005a:68008**)
— (*with* Demaine, Erik D.; Munro, J. Ian) Fast allocation and deallocation with an improved buddy system. (English summary) **2005m:68041**
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Epstein, Leah (*with* Imreh, Csanád; van Stee, Rob) More on weighted servers or FIFO is better than LRU. (English summary) (*see* **2005b:68019**)
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Imreh, Csanád *see* **Epstein, Leah et al., (2005b:68019)**
Kang, Jung-Min *see* **Shin, Wook et al., (2005d:94153)**
Kim, Hyoung-Chun *see* **Shin, Wook et al., (2005d:94153)**
Lai, Tony W. Paging on a RAM with limited resources. (English summary) (*see* **2005a:68002**)
Lee, Dong-Ik *see* **Shin, Wook et al., (2005d:94153)**
Lee, Jin-Seok *see* **Shin, Wook et al., (2005d:94153)**
Munro, J. Ian *see* **Brodal, Gerth Stølting et al., 2005m:68041**
Pilegaard, Henrik (*with* Hansen, Michael Reichhardt; Sharp, Robin) An approach to analyzing availability properties of security protocols. (English summary) **2005a:68044**
Sharp, Robin *see* **Pilegaard, Henrik et al., 2005a:68044**
Shin, Wook (*with* Lee, Dong-Ik; Kim, Hyoung-Chun; Kang, Jung-Min; Lee, Jin-Seok) Extended role based access control and procedural restrictions. (English summary) (*see* **2005d:94153**)
van Stee, Rob *see* **Epstein, Leah et al., (2005b:68019)**

Items with secondary classifications in 68N25

Albers, Susanne (*with* Favrholdt, Lene M.; Giel, Oliver) On paging with locality of reference. (English summary) (*see* **2005i:68004**)
— (*with* Büttner, Markus) Integrated prefetching and caching in single and parallel disk systems. (English summary) **2005k:68230**
Becchetti, Luca (*with* Leonardi, Stefano) Non-clairvoyant scheduling to minimize the average flow time on single and parallel machines. (English summary) (*see* **2005j:68008**)
Bender, Michael A. (*with* Cole, Richard; Raman, Rajeev) Exponential structures for efficient cache-oblivious algorithms. (English summary) (*see* **2005a:68008**)
Brodal, Gerth Stølting (*with* Fagerberg, Rolf) Funnel heap—a cache oblivious priority queue. (English summary) (*see* **2005b:68004**)
Büttner, Markus *see* **Albers, Susanne, 2005k:68230**
Cole, Richard *see* **Bender, Michael A. et al., (2005a:68008)**
Epstein, Leah (*with* van Stee, Rob) Minimizing the maximum starting time on-line. (English summary) **2005h:68041**
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Favrholdt, Lene M. *see* **Albers, Susanne et al., (2005i:68004)**
Feder, Tomás (*with* Motwani, Rajeev; Panigrahy, Rina; Seiden, Steven S.; van Stee, Rob; Zhu, An) Combining request scheduling with web caching. (English summary) **2005f:68157**
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Giel, Oliver *see* **Albers, Susanne et al., (2005i:68004)**
Haldar, Sibsankar (*with* Vitányi, Paul M. B.) Bounded concurrent timestamp systems using vector clocks. (English summary) **2005m:68157**
Harchol-Balter, Mor Task assignment with unknown duration. (English summary)
Jelenković, Predrag R. (*with* Radovanović, Ana) Optimizing LRU caching for variable document sizes. (English summary) **2005e:68246**
— (*with* Radovanović, Ana) Least-recently-used caching with dependent requests. (English summary) **2005e:68247**
Lempel, Ronny (*with* Moran, Shlomo) Competitive caching of query results in search engines. (English summary) **2005c:68281**
Leonardi, Stefano *see* **Becchetti, Luca, (2005j:68008)**
Mendel, Manor (*with* Seiden, Steven S.) Online companion caching. (English summary) **2005c:68055**
— *see also* **Fiat, Amos et al., (2005c:68002)**
Moran, Shlomo *see* **Lempel, Ronny, 2005c:68281**
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68N30 Mathematical aspects of software engineering (specification, verification, metrics, requirements, etc.)

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Baranov, S. N. (*with* Volkov, V. A.; Godlevskiĭ, A. B.; Kapitonova, Yu. V.; Letichevskiĭ, Aleksandr Adol'fovich) Verification of the reasonableness of software requirements presented as attribute transition systems. (Russian. English and Ukrainian summaries)
Barrio-Solórzano, Manuel *see* **Cuesta, Carlos E. et al., 2005k:68026**
Beato, M. Encarnación *see* **Cuesta, Carlos E. et al., 2005k:68026**
Bidoit, Michel (*with* Sannella, Donald; Tarlecki, Andrzej) Global development via local observational construction steps. (English summary) (*see* **2005b:68019**)
Bossi, Annalisa (*with* Macedonio, Damiano; Piazza, Carla; Rossi, Sabina) Information flow security and recursive systems. (English summary) (*see* **2005b:68027**)
Broy, Manfred A semantic and methodological essence of message sequence charts. (English summary) **2005h:68020**
Celiku, Orieta (*with* McIver, Annabelle) Cost-based analysis of probabilistic programs mechanised in HOL. (English summary) **2005f:68021**
Cuesta, Carlos E. (*with* de la Fuente, Pablo; Barrio-Solórzano, Manuel; Beato, M. Encarnación) An "abstract process" approach to algebraic dynamic architecture description. (English summary) **2005k:68026**
Doucet, Frédéric *see* **Talpin, Jean-Pierre et al.**
Dragoni, Nicola (*with* Gaspari, Mauro) An object based algebra for specifying a fault tolerant software architecture. (English summary) **2005k:68027**
Fersman, Elena (*with* Yi, Wang) A generic approach to schedulability analysis of real-time tasks. (English summary)
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Hannay, Jo (*with* Katsumata, Shin-ya; Sannella, Donald) Semantic and syntactic approaches to simulation relations. (English summary) (*see* **2005b:68020**)
Janicki, Ryszard On a mereological system for relational software specifications. (English summary) (*see* **2005b:68019**)
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Latvala, Timo (*with* Tauriainen, Heikki) Improved on-the-fly verification with testers. (English summary)
Lau, Kung-Kiu (*with* Ornaghi, Mario) Logic for component-based software development. (*see* **2005f:68005a**)
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Mu, Ke Dian (*with* Jin, Zhi; Lu, Ru Qian) Handling inconsistent priorities of overlapped requirements in merging viewpoints. (Chinese. English and Chinese summaries)
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Wang, Xiao Dong[1] (*with* Wu, Ying Jie; Fu, Zhi Xiang) Induction and loop invariants for algorithm design. (Chinese. English and Chinese summaries)
Wu, Ying Jie *see* **Wang, Xiao Dong[1] et al.**
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Achermann, Franz (*with* Nierstrasz, Oscar) A calculus for reasoning about software composition. (English summary) **2005i:68047**
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Ancona, Davide (*with* Fagorzi, Sonia; Zucca, Elena) A calculus for dynamic linking. (English summary) (*see* **2005b:68027**)
Attiya, Hagit (*with* Dagan, Eyal) Improved implementations of binary universal operations. (English summary)
Beckert, Bernhard (*with* Giese, Martin; Habermalz, Elmar; Hähnle, Reiner; Roth, Andreas[2]; Rümmer, Philipp; Schlager, Steffen) Taclets: a new paradigm for constructing interactive theorem provers. (English and Spanish summaries)
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Bernardo, Marco Symbolic semantic rules for producing compact STGLAs from value passing process descriptions. (English summary) **2005c:68196**
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Bracciali, Andrea (*with* Brogi, Antonio; Turini, Franco) A framework for specifying and verifying the behaviour of open systems. (English summary) **2005k:68128**
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Clarke, Edmund (*with* Grumberg, Orna; Jha, Somesh; Lu, Yuan; Veith, Helmut) Counterexample-guided abstraction refinement for symbolic model checking. (English summary) **2005m:68141**
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Kapur, Deepak *see* **Rodríguez-Carbonell, Enric**, (2005i:68002)
Kaufmann, Matt (*with* Moore, J. Strother) Some key research problems in automated theorem proving for hardware and software verification. (English and Spanish summaries)
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Lilius, Johan (*with* Østerbye, Kasper) Guest editors' foreword: Programming and software development environment research in the Nordic countries.
Lozes, Étienne Elimination of spatial connectives in static spatial logics. (English summary) **2005i:68053**
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Blanck, J. Efficient exact computation of iterated maps. (English summary) **2005m:68043**
Boehm, Hans-J. The constructive reals as a Java library. (English summary)
Cai, Kai-Yuan (*with* Li, Yong-Chao; Ning, Wei-Yi) Optimal software testing in the setting of controlled Markov chains. (English summary)
Chatterjee, Krishnendu (*with* Ma, Di; Majumdar, Rupak; Zhao, Tian; Henzinger, Thomas A.; Palsberg, Jens) Stack size analysis for interrupt-driven programs. (English summary) **2005g:68017**
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Agarwal, Pankaj K. (*with* Arge, Lars; Procopiuc, Octavian; Vitter, Jeffrey Scott) A framework for index bulk loading and dynamization. (English summary) (*see* **2005a:68007**)
— (*with* Arge, Lars; Yang, Jun; Yi, Ke) I/O-efficient structures for orthogonal range-max and stabbing-max queries. (English summary) (*see* **2005c:68003**)
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— *see also* **Agarwal, Pankaj K. et al.**, (**2005a:68007**) *and* (**2005c:68003**)
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— (*with* Duan, Ziyang; Iacono, John; Wu, Jing) A locality-preserving cache-oblivious dynamic dictionary. (English summary) **2005e:68030**
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Chen, Shi Ping (*with* Chen, Guang Ju) Simplification of logic functions based on integer lists forms. (Chinese. English and Chinese summaries)
Clifford, Raphaël (*with* Sergot, Marek) Distributed and paged suffix trees for large genetic databases. (English summary) (*see* **2005a:68010**)
Cohen, Robert F. *see* **Goodrich, Michael T. et al.**, (**2005b:94045**)
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— (*with* Muthukrishnan, S. Muthu) An improved data stream summary: the count-min sketch and its applications. (English summary) **2005k:68028**
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— (*with* Pagh, Rasmus; Sanders, Peter; Spirakis, Paul G.) Space efficient hash tables with worst case constant access time. (English summary) **2005j:68023**
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— (*with* Grossi, Roberto) Optimal cache-oblivious implicit dictionaries. (English summary) (*see* **2005b:68008**)
— (*with* Grossi, Roberto; Munro, J. Ian; Pagli, Linda) Implicit B-trees: a new data structure for the dictionary problem. (English summary) **2005b:68068**
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— (*with* Hong, Edwin S.; Mohr, Alexander E.; Pentney, William R.; Rocke, Emily C.) Characterizing history independent data structures. (English summary) **2005k:68029**
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Gottlieb, Lee-Ad *see* **Cole, Richard et al., 2005j:68114**
Grübel, Rudolf (*with* Stefanoski, Nikolče) Mixed Poisson approximation of node depth distributions in random binary search trees. (English summary) **2005k:60073**
Gudmundsson, Joachim (*with* Levcopoulos, Christos; Narasimhan, Giri; Smid, Michiel) Approximate distance oracles revisited. (English summary) (*see* **2005b:68004**)
Guibas, Leonidas J. *see* **Agarwal, Pankaj K. et al.**, (**2005c:68002**)
Gustavson, Fred G. *see* **Elmroth, Erik et al., 2005h:65005**
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Hayes, John P. *see* **Viamontes, George F. et al.**
Hellerstein, Joseph M. (*with* Koutsoupias, Elias; Miranker, Daniel P.; Papadimitriou, Christos H.; Samoladas, Vasilis) On a model of indexability and its bounds for range queries. (English summary) **2005m:68058**

van der Helm, Peter A. Transparallel processing by hyperstrings. (English summary)
Hershberger, John Kinetic collision detection with fast flight plan changes. (English summary) **2005f:68150**
— Smooth kinetic maintenance of clusters. (English summary) **2005k:68208**
Hivert, Florent (*with* Novelli, Jean-Christophe; Thibon, Jean-Yves) An analogue of the plactic monoid for binary search trees. (English summary) **2005d:05150**
Hon, Wing-Kai (*with* Sadakane, Kunihiko) Space-economical algorithms for finding maximal unique matches. (English summary) (*see* **2005a:68009**)
Hoshino, Hiromasa *see* **Inenaga, Shunsuke et al., 2005h:68169**
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Husfeldt, Thore (*with* Rauhe, Theis) New lower bound techniques for dynamic partial sums and related problems. (English summary) **2005c:68077**
Iacono, John Key independent optimality. (English summary) (*see* **2005b:68004**)
— Expected asymptotically optimal planar point location. (English summary)
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Inenaga, Shunsuke (*with* Hoshino, Hiromasa; Shinohara, Ayumi; Takeda, Masayuki; Arikawa, Setsuo; Mauri, Giancarlo; Pavesi, Giulio) On-line construction of compact directed acyclic word graphs. (English summary) **2005h:68169**
— *see also* **Miyamoto, Satoru et al., 2005f:68073**
Islam, T. M. *see* **Manob, A. H. et al.**
Italiano, Giuseppe F. *see* **Demetrescu, Camil, 2005k:05225**
JaJa, Joseph *see* **Shi, Qingmin, 2005c:68275**
Janson, Svante (*with* Lonardi, Stefano; Szpankowski, Wojciech) On average sequence complexity. (English summary) **2005e:68041**
Jonsson, Isak *see* **Elmroth, Erik et al., 2005h:65005**
Jürgensen, Claus (*with* Vogler, Heiko) Syntactic composition of top-down tree transducers is short cut fusion. (English summary) **2005a:68039**
Kadoya, Y. (*with* Fuketa, M.; Atlam, El-Sayed; Morita, Kazuhiro; Sumitomo, Toru; Aoe, J.) A compression algorithm using integrated record information for translation dictionaries. (English summary)
Kågström, Bo *see* **Elmroth, Erik et al., 2005h:65005**
Kaplan, Haim *see* **Alstrup, Stephen et al., 2005b:05064** *and* **Barkan, Arye, (2005c:68002)**
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Koutsoupias, Elias *see* **Hellerstein, Joseph M. et al., 2005m:68058**
Kowalik, Łukasz (*with* Kurowski, Maciej) Short path queries in planar graphs in constant time. (English summary) **2005k:05227**
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Krishnamurthy, Balachander *see* **Buchsbaum, Adam L. et al., 2005f:68177**
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Kurowski, Maciej *see* **Kowalik, Łukasz, 2005k:05227**
Lagogiannis, George *see* **Sioutas, Spyros et al., 2005k:68210**
Lee, Chuan-Min (*with* Hung, Ling-Ju; Chang, Maw-Shang; Shen, Chia-Ben; Tang, Chuan Yi) An improved algorithm for the maximum agreement subtree problem. (English summary) **2005k:68217**
Levcopoulos, Christos *see* **Gudmundsson, Joachim et al., (2005b:68004)**
Lewenstein, Moshe *see* **Cole, Richard et al., 2005j:68114**
Li, J. (*with* Liang, Xiaojun; Selveraj, H.; Muthukumar, V.; Gewali, Laxmi P.) A novel data structure for unit disk graphs. (English summary)
Liang, Xiaojun *see* **Li, J. et al.**
Lin, Jyh-Jye *see* **Wang, Biing-Feng et al., 2005a:68239**
Lingas, Andrzej *see* **Gąsieniec, Leszek, (2005b:68005)**
Lonardi, Stefano *see* **Janson, Svante et al., 2005e:68041**
Mahmoud, Hosam M. Erratum: "The size of random bucket trees via urn models" [Acta. Inform. **38** (2002), no. 11-12, 813–838; MR1943199 (2003h:68153)]. **2005f:68164**
— (*with* Tsukiji, Tatsuie) Limit laws for terminal nodes in random circuits with restricted fan-out: a family of graphs generalizing binary search trees. (English summary) **2005g:05138**
— *see also* **Christophi, Costas A., 2005m:60010**
Makris, Christos *see* **Sioutas, Spyros et al., 2005k:68210**
Malamatos, Theocharis *see* **Arya, Sunil et al., (2005i:68004)**
Manob, A. H. (*with* Islam, T. M.; Parvez, M. T.; Kaykobad, Mohammad) Search trees and Stirling numbers. (English summary)
Markov, Igor L. *see* **Viamontes, George F. et al.**
Mauri, Giancarlo (*with* Pavesi, Giulio) Pattern discovery in RNA secondary structure using affix trees. (English summary) (*see* **2005a:68010**)
— *see also* **Inenaga, Shunsuke et al., 2005h:68169**
(Mehta, Dinesh P.) *see* **Handbook of data structures and applications, 2005m:68003**
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Miranker, Daniel P. *see* **Hellerstein, Joseph M. et al., 2005m:68058**
Miyamoto, Satoru (*with* Inenaga, Shunsuke; Takeda, Masayuki; Shinohara, Ayumi) Ternary directed acyclic word graphs. (English summary) **2005f:68073**
Mohamed, Manal *see* **Crochemore, Maxime et al., 2005f:68161**
Morin, Pat *see* **Bose, Prosenjit et al., 2005g:52035**
Morita, Kazuhiro *see* **Kadoya, Y. et al.**
Morris, Katherine On parameters in monotonically labelled trees. (English summary) (*see* **2005d:00014**)
— (*with* Panholzer, Alois; Prodinger, Helmut) On some parameters in heap ordered trees. (English summary) **2005f:68112**
Mount, David M. *see* **Arya, Sunil et al., (2005i:68004)**
Muir, Alex (*with* Düntsch, Ivo; Gediga, Günther) Rough set data representation using binary decision diagrams. (English and Spanish summaries)
Muthukrishnan, S. Muthu (*with* Şahinalp, Süleyman Cenk) Simple and practical sequence nearest neighbors with block operations. (English summary) (*see* **2005a:68009**)
Muthukumar, V. *see* **Li, J. et al.**
Mutzel, Petra The SPQR-tree data structure in graph drawing. (English summary) (*see* **2005b:68008**)
Narasimhan, Giri *see* **Gudmundsson, Joachim et al., (2005b:68004)**
Nave, Démian (*with* Chrisochoides, Nikos; Chew, L. Paul) Guaranteed-quality parallel Delaunay refinement for restricted polyhedral domains. (English summary) **2005a:68215**
Nekrich, Yakov *see* **Berman, Piotr et al., (2005a:68008)**
Nepomnyashchiĭ, V. A. A symbolic method for the verification of definite iterations over altered data structures. (Russian. Russian summary)
Nikolopoulos, Stavros D. (*with* Palios, Leonidas) On the recognition of P_4-comparability graphs. (English summary) (*see* **2005a:68015**)
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Samoladas, Vasilis *see* **Hellerstein, Joseph M. et al., 2005m:68058**
Sanders, Peter Algorithms for memory hierarchies. (English summary)
— *see also* **Beier, René et al., (2005a:68008)**
Schmidt, Alfred (*with* Siebert, Kunibert G.) ★ Design of adaptive finite element software. **2005i:65003**
Selveraj, H. *see* **Li, J. et al.**
Sen, Pranab (*with* Venkatesh, Srinivasan) Lower bounds in the quantum cell probe model. (English summary) (*see* **2005a:68007**)
Sharifov, F. A. On the efficiency of algorithms for solving network problems on tree-like structures. (Russian. English and Ukrainian summaries)
Sharir, Micha *see* **Agarwal, Pankaj K., 2005k:52036**
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Shi, Qingmin (*with* JaJa, Joseph) Fast algorithms for 3-D dominance reporting and counting. (English summary) **2005c:68275**
Shim, Jeong Min (*with* Song, Seok Il; Yoo, Jae Soo; Min, Young Soo) An efficient cache conscious multi-dimensional index structure. (English summary)
Shinohara, Ayumi *see* **Miyamoto, Satoru et al., 2005f:68073** *and* **Inenaga, Shunsuke et al., 2005h:68169**
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Sikora, Thomas *see* **Skarbek, Władysław et al.**
Silva, Frutuoso G. M. (*with* Gomes, Abel J. P.) AIF—a data structure for polygonal meshes. (English summary) (*see* **2005i:00014**)
Sinha, Ranjan (*with* Zobel, Justin) Cache-conscious sorting of large sets of strings with dynamic tries. (English summary) **2005h:68023**
Sioutas, Spyros (*with* Makris, Christos; Kitsios, Nektarios; Lagogiannis, George; Tsaknakis, John; Tsichlas, Kostas; Vassiliadis, Bill) Geometric retrieval for grid points in the RAM model. (English summary) **2005k:68210**
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Thorup, Mikkel Fully-dynamic min-cut. (English summary) (*see* **2005j:68008**)
— *see also* **Andersson, Arne A., (2005i:68003)**
Tiunchik, A. A. Matching graph models of systolic-type algorithms on the basis of a matrix representation of data structures. (Russian. English and Russian summaries)
Tóth, Csaba D. Binary space partition for orthogonal fat rectangles. (English summary) (*see* **2005c:68003**)
Tripathy, B. K. (*with* Pattanaik, G. P.) On some properties of lists and fuzzy lists. (English summary) **2005i:03063**
Tsaknakis, John *see* **Sioutas, Spyros et al., 2005k:68210**
Tsichlas, Kostas *see* **Sioutas, Spyros et al., 2005k:68210**
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Viamontes, George F. (*with* Markov, Igor L.; Hayes, John P.) Graph-based simulation of quantum computation in the density matrix representation. (English summary)
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Vogler, Heiko *see* **Jürgensen, Claus**, 2005a:68039
Wang, Biing-Feng (*with* Lin, Jyh-Jye; Ku, Shan-Chyun) Efficient algorithms for the scaled indexing problem. (English summary) 2005a:68239
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Items listed otherwise than by author

Algorithms and data structures ★ Algorithms and data structures. 2005b:68005
Handbook of data structures and applications ★ Handbook of data structures and applications. 2005m:68003
Lecture Notes in Computer Science ★ Algorithms and data structures. 2005b:68005
Ottawa, ON ★ Algorithms and data structures. 2005b:68005

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Al-Badarneh, Amer (*with* El-Aker, Fouad) Efficient adaptive in-place radix sorting. (English and Lithuanian summaries)
Amano, Kazuyuki (*with* Maruoka, Akira) On optimal merging networks. (English summary) 2005c:68037
Andersson, Arne A. (*with* Thorup, Mikkel) Tight(er) worst-case bounds on dynamic searching and priority queues. (*see* 2005i:68003)
Barbay, Jérémy (*with* Kenyon, Claire) Deterministic algorithm for the t-threshold set problem. (English summary) 2005d:68028
Barkan, Arye (*with* Kaplan, Haim) Partial alphabetic trees. (English summary) (*see* 2005c:68002)
Biedl, Therese (*with* Chan, Timothy M.; Demaine, Erik D.; Fleischer, Rudolf; Golin, Mordecai J.; King, James A.; Munro, J. Ian) Fun-sort—or the chaos of unordered binary search. (English summary) 2005f:68024
Brodal, Gerth Stølting (*with* Fagerberg, Rolf) On the limits of cache-obliviousness. (English summary) 2005k:68037
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Carmo, Renato (*with* Donadelli, Jair; Kohayakawa, Yoshiharu; Laber, Eduardo Sany) Searching in random partially ordered sets. (English summary) 2005d:68029
Chan, Timothy M. *see* **Biedl, Therese et al.**, 2005f:68024
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Davila, Jaime (*with* Rajasekaran, Sanguthevar) Randomized sorting on the POPS network. (English summary) 2005k:68038
Demaine, Erik D. *see* **Biedl, Therese et al.**, 2005f:68024
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Drmota, Michael An analytic approach to the height of binary search trees. II. (English summary) 2005m:68050
El-Aker, Fouad *see* **Al-Badarneh, Amer**
Elmasry, Amr Priority queues, pairing, and adaptive sorting. (English summary) (*see* 2005a:68008)
— Three sorting algorithms using priority queues. (English summary) 2005e:68034
— (*with* Fredman, Michael L.) Adaptive sorting and the information theoretic lower bound. (English summary) 2005c:68039
Fagerberg, Rolf *see* **Brodal, Gerth Stølting**, 2005k:68037
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Hadjicostas, Petros (*with* Lakshmanan, K. B.) Bubble sort with erroneous comparisons. (English summary) 2005j:68025
Han, Yijie Deterministic sorting in $O(n \log\log n)$ time and linear space. (English summary) (*see* 2005i:68004)
Hartman, Tzvika A simpler 1.5-approximation algorithm for sorting by transpositions. (English summary) (*see* 2005a:68010)
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Iacono, John Key independent optimality. (English summary) (*see* 2005b:68004)
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Mahajan, Meena (*with* Rama, Raghavan; Raman, Venkatesh; Vijayakumar, Sundarrajan) Merging and sorting by strip moves. (English summary) 2005e:68035
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Morohashi, Gembu (*with* Iwata, Shigeki) Some minimum merging networks. (English summary) 2005g:68024
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van Oostrum, René (*with* Veltkamp, Remco C.) Parametric search made practical. (English summary) 2005a:68055
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— New results in minimum-comparison sorting. (English summary) 2005d:68030
Podgorelec, David (*with* Klajnšek, Gregor) Acceleration of sweep-line technique by employing smart quicksort. (English summary) 2005i:68016
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Ravikumar, Balasubramanian A fault-tolerant merge sorting algorithm. (English summary) (*see* 2005a:68012)
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Song, Tao *see* **Yang, Lei et al.**
Stachowiak, Grzegorz Fast periodic correction networks. (English summary) 2005c:68041
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Items with secondary classifications in 68P10

Akhavi, Ali (*with* Moreira Dos Santos, Céline) Another view of the Gaussian algorithm. (English summary) (*see* 2005d:68010)
Albert, Michael H. (*with* Atkinson, M. D.) Sorting with a forklift. (English summary) (*see* 2005a:68002)
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Arslan, Abdullah N. (*with* Eğecioğlu, Ömer) Dictionary look-up within small edit distance. (English summary) (*see* 2005a:68012)
Arulanandham, Joshua J. (*with* Calude, Cristian S.; Dinneen, Michael J.) A fast natural algorithm for searching. (English summary) 2005a:68063
Atkinson, M. D. *see* **Albert, Michael H.**, (2005a:68002)
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Caminiti, Saverio (*with* Finocchi, Irene; Petreschi, Rossella) A unified approach to coding labeled trees. (English summary) (*see* 2005d:68010)
Charikar, Moses S. (*with* Fagin, Ronald; Guruswami, Venkatesan; Kleinberg, Jon; Raghavan, Prabhakar; Sahai, Amit) Query strategies for priced information (extended abstract). (*see* 2005i:68003)
Chassaing, Philippe *see* **Alonso, Laurent et al.**, 2005f:68174
Chauvin, Brigitte (*with* Pouyanne, Nicolas) m-ary search trees when $m \geq 27$: a strong asymptotics for the space requirements. (English summary) 2005a:68050
Curado, Luiz Reginaldo A. F. *see* **Walter, Maria Emilia M. T. et al.**, (2005a:68010)
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Eğecioğlu, Ömer *see* **Arslan, Abdullah N.**, (2005a:68012)
Ergün, Funda (*with* Şahinalp, Süleyman Cenk; Sharp, Jonathan; Sinha, Rakesh) Biased dictionaries with fast insert/deletes. (English summary) (*see* 2005j:68008)
Fagin, Ronald *see* **Charikar, Moses S. et al.**, (2005i:68003)
Fekete, Eric Arms and feet nodes level polynomial in binary search trees. (English summary) 2005g:68019
Finocchi, Irene (*with* Italiano, Giuseppe F.) Sorting and searching in the presence of memory faults (without redundancy). (English summary) 2005j:68139
— *see also* **Caminiti, Saverio et al.**, (2005d:68010)
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— (*with* Pagh, Rasmus; Sanders, Peter; Spirakis, Paul G.) Space efficient hash tables with worst case constant access time. (English summary) 2005j:68023
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— *see also* **Alon, Noga et al., 2005a:68056**
Vila, María-Amparo *see* **Berzal, Fernando et al.**
Vu, Nghia D. Relationships between closure operations and choice functions—equivalent descriptions of a family of functional dependencies. (English summary) **2005b:68082**
Vu Duc Thi (*with* Nguyen Hoang Son) Some problems related to keys and the Boyce-Codd normal form. (English summary) **2005b:68083**
Wang, Shan *see* **He, Ying Jie[2] et al.** *and* **Li, Sheng-En**
Wang, Teng Jiao *see* **Gao, Jun[3] et al.**
Weinstein, Scott *see* **Buneman, Peter et al., 2005b:68076**
Wong, Limsoon *see* **Hella, Lauri et al., 2005m:68057**
Worland, Peter B. An efficient algorithm for 3NF determination. (English summary)
Xie, Li Cong (*with* Yu, Jian Jia; Zhang, Ying) Rewriting algorithms of Boolean queries. (Chinese. English and Chinese summaries)
Yan, Ping (*with* Lü, Teng; Sheng, Qi-rong) On XML-data schema consistency problem. (English and Chinese summaries)
Yang, Dong Qing *see* **Gao, Jun[3] et al.**
Yang, Guoqiang *see* **Yang, Zhengwu**

Yang, Zhengwu (*with* Yang, Guoqiang) A near-optimal similarity join algorithm and performance evaluation. (English summary)
Yoo, Jae Soo *see* **Shim, Jeong Min et al.**
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Yu, Jian Jia *see* **Xie, Li Cong et al.**
Zaniolo, Carlo Key constraints and monotonic aggregates in deductive databases. (English summary) **2005g:68030**
Zhang, Chengqi *see* **Zhang, Shichao et al.**
Zhang, Lijuan *see* **Thomasian, Alexander et al.**
Zhang, Mao Yuan (*with* Lu, Zheng Ding) An agent-based database system framework and its parallel algorithm of rules. (Chinese. English and Chinese summaries)
Zhang, Shichao (*with* Zhang, Chengqi; Yu, Jeffrey Xu) An efficient strategy for mining exceptions in multi-databases. (English summary)
Zhang, Ying *see* **Xie, Li Cong et al.**

Items with secondary classifications in 68P15

Alon, Noga (*with* Milo, Tova; Neven, Frank; Suciu, Dan; Vianu, Victor) XML with data values: typechecking revisited. (English summary) **2005g:68176**
Amir, Eyal (*with* McIlraith, Sheila) Partition-based logical reasoning for first-order and propositional theories. (English summary) **2005k:68176**
André, Yves² (*with* Caron, Anne-Cécile; Debarbieux, Denis; Roos, Yves; Tison, Sophie) Extraction and implication of path constraints. (English summary) **2005m:68234**
Arimura, Hiroki Efficient text mining with optimized pattern discovery. (English summary) (*see* **2005a:68009**)
Aslam, Javed A. (*with* Pelekhov, Ekaterina; Rus, Daniela) The star clustering algorithm for static and dynamic information organization. (English summary) **2005h:68114**
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Berlea, Alexandru (*with* Seidl, Helmut) Binary queries for document trees. (English summary) **2005d:68140**
Bertino, Elisa (*with* Perlasca, Paolo; Catania, Barbara) Introducing dynamic behavior in amalgamated knowledge bases. (English summary) **2005d:68022**
Berwanger, Dietmar (*with* Grädel, Erich) Fixed-point logics and solitaire games. (English summary) **2005h:03062**
Black, Andrew P. (*with* Cremet, Vincent; Guerraoui, Rachid; Odersky, Martin) An equational theory for transactions. (English summary) (*see* **2005d:68008**)
Boyens, Claus (*with* Günther, Oliver; Lenz, Hans-Joachim) Statistical databases. (*see* **2005g:62004**)
Branković, Ljiljana (*with* Širáň, Jozef) 2-compromise usability in 1-dimensional statistical databases. (English summary) **2005a:62019**
— (*with* Cvetković, Dragoš M.) The eigenspace of the eigenvalue -2 in generalized line graphs and a problem in security of statistical databases. (English summary) **2005i:05118**
Cardelli, Luca (*with* Gardner, Philippa; Ghelli, Giorgio) Manipulating trees with hidden labels. (English summary) (*see* **2005b:68014**)
Caron, Anne-Cécile *see* **André, Yves² et al., 2005m:68234**
Caspard, Nathalie (*with* Monjardet, Bernard) Erratum to: "The lattices of closure systems, closure operators, and implicational systems on a finite set: a survey" [Discrete Appl. Math. **127** (2003), no. 2, 241–269; MR1984087 (2004b:06006)].
Catania, Barbara *see* **Bertino, Elisa et al., 2005d:68022**
Chakrabarty, Kankana Notion of fuzzy IC-bags. (English summary) **2005b:68243**
Chang, Ming-Yuan *see* **Jea, Kuen-Fang et al.**
Chen, Danny Z. (*with* Smid, Michiel; Xu, Bin) Geometric algorithms for density-based data clustering. (English summary) (*see* **2005c:68002**)
Chen, Yen-Liang *see* **Hsu, Ping-Yu et al.**
Clifford, Raphaël (*with* Sergot, Marek) Distributed and paged suffix trees for large genetic databases. (English summary) (*see* **2005a:68010**)
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Crescenzi, Valter (*with* Mecca, Giansalvatore) Automatic information extraction from large websites. (English summary) **2005m:68237**
Cvetković, Dragoš M. *see* **Branković, Ljiljana, 2005i:05118**
Debarbieux, Denis *see* **André, Yves² et al., 2005m:68234**
De Cock, Martine (*with* Cornelis, C.; Kerre, Etienne E.) Elicitation of fuzzy association rules from positive and negative examples. (English summary)
Dong, Xiang Jun (*with* Wang, Shu Jing; Song, Han Tao; Lu, Yu Chang) Study on negative association rules. (Chinese. English and Chinese summaries)
Dubhashi, Devdatt (*with* Laura, Luigi; Panconesi, Alessandro) Analyis and experimental evaluation of a simple algorithm for collaborative filtering in planted partition models (extended abstract). (English summary) (*see* **2005d:68008**)
Dukić, Nedžad (*with* Avdagić, Zikrija) Formalization of provenes fuzzy functional dependancy in fuzzy databases. (English summary) [Formalization of proof in fuzzy functional dependency for fuzzy databases]
Fan, Wenfei (*with* Libkin, Leonid) On XML integrity constraints in the presence of DTDs. (English summary) **2005m:03022**
Feder, Tomás (*with* Motwani, Rajeev; Panigrahy, Rina; Olston, Chris; Widom, Jennifer) Computing the median with uncertainty. (*see* **2005i:68003**)
Feng, Zu Hong (*with* Xu, Zong Ben) WPERF+: an efficient optimization algorithm for distributed queries. (Chinese. English and Chinese summaries)
Ganguly, Niloy *see* **Maji, Pradipta et al., 2005d:68095**
Gantayat, S. S. *see* **Tripathy, B. K., 2005f:03092**
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Ghelli, Giorgio *see* **Cardelli, Luca et al., (2005b:68014)**
Gottlob, Georg (*with* Papadimitriou, Christos H.) On the complexity of single-rule Datalog queries. (English summary) **2005g:68045**
— (*with* Leone, Nicola; Scarcello, Francesco) Robbers, marshals, and guards: game theoretic and logical characterizations of hypertree width. (English summary) **2005d:05126**
— (*with* Pichler, Reinhard) Hypergraphs in model checking: acyclicity and hypertree-width versus clique-width. (English summary) **2005b:03077**
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Grohe, Martin (*with* Schwentick, Thomas; Segoufin, Luc) When is the evaluation of conjunctive queries tractable? (English summary) (*see* **2005j:68008**)
— (*with* Schweikardt, Nicole) Comparing the succinctness of monadic query languages over finite trees. (English summary) **2005i:03042**
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Günther, Oliver *see* **Boyens, Claus et al., (2005g:62004)**
Halperin, Eran *see* **Cohen, Edith et al., 2005j:68113**
He, Zhen Feng (*with* Xiong, Fan Lun) A constrained partition model and K-means algorithm. (Chinese. English and Chinese summaries)
Hébrail, Georges (*with* Lechevallier, Yves) Building small scale models of multi-entity databases by clustering. (English summary) (*see* **2005i:62003**)
Hesselink, Wim H. Using eternity variables to specify and prove a serializable database interface. (English summary) **2005b:68190**
Hsu, Ping-Yu (*with* Chen, Yen-Liang; Ling, Chun-Ching) Algorithms for mining association rules in bag databases. (English summary)
Iyer, Balakrishna R. *see* **Wang, Min⁵ et al., 2005j:62135**
Jaroszewicz, Szymon (*with* Simovici, Dan A.; Rosenberg, Ivo G.) Measures on Boolean polynomials and their applications in data mining. (English summary) **2005e:68236**
Jayaraman, Bharat *see* **Osorio, Mauricio et al., 2005h:68018**
Jea, Kuen-Fang (*with* Chang, Ming-Yuan; Lin, Ke-Chung) An efficient and flexible algorithm for online mining of large itemsets.
Johnson, Chris A. Top-down query processing in first-order deductive databases under the DWFS. (English summary) **2005a:68034**
Ju, Shi Guang *see* **Lu, Jie Ping et al.**
Kang, Dazhou (*with* Xu, Bao-Wen; Lu, Jianjiang; Wang, Peng) Approximate querying between heterogeneous ontologies based on association matrix. (English and Chinese summaries)
Kaplan, Haim *see* **Cohen, Edith et al., 2005j:68113**
Kerre, Etienne E. *see* **De Cock, Martine et al.**
Kleinberg, Jon (*with* Papadimitriou, Christos H.; Raghavan, Prabhakar) Segmentation problems. (English summary) **2005m:90174**
Kolev, Boyan Generalized nets in modeling relational database management systems. (English summary)
Laura, Luigi *see* **Dubhashi, Devdatt et al., (2005d:68008)**
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Lenz, Hans-Joachim *see* **Boyens, Claus et al., (2005g:62004)**
Lenzerini, Maurizio Preface [Papers from the Ninth International Conference on Database Theory (ICDT'03)].
Leone, Nicola *see* **Gottlob, Georg et al., 2005d:05126**
Li, Jian Zhong *see* **Zhang, Zhao Gong et al.**
Libkin, Leonid *see* **Fan, Wenfei, 2005m:03022**
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Lin, Xuemin Delay optimization in quorum consensus. (English summary) **2005a:68024**
Ling, Chun-Ching *see* **Hsu, Ping-Yu et al.**
Loyer, Yann (*with* Spyratos, Nicolas) Hypothesis-founded semantics for datalog programs with negation. (English summary) (*see* **2005b:68019**)
Lu, Jianjiang *see* **Kang, Dazhou et al.**
Lu, Jie Ping (*with* Yang, Ming; Sun, Zhi Hui; Ju, Shi Guang) Fast mining of global maximum frequent itemsets. (Chinese. English and Chinese summaries)
Lu, Yu Chang *see* **Dong, Xiang Jun et al.**
Maji, Pradipta (*with* Shaw, Chandrama; Ganguly, Niloy; Sikdar, Biplab K.; Pal Chaudhuri, Parimal) Theory and application of cellular automata for pattern classification. (English summary) **2005d:68095**
Maneth, Sebastian The macro tree transducer hierarchy collapses for functions of linear size increase. (English summary) **2005e:68129**
Martens, Wim (*with* Neven, Frank; Schwentick, Thomas) Complexity of decision problems for simple regular expressions. (English summary) **2005m:68130**
Mascellani, Paolo (*with* Pedreschi, Dino) The declarative side of magic. (English summary) (*see* **2005f:68005b**)
McColm, Gregory L. Guarded quantification in least fixed point logic. (English summary) **2005h:03063**
McIlraith, Sheila *see* **Amir, Eyal, 2005k:68176**
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Meghini, Carlo (*with* Tzitzikas, Yannis; Spyratos, Nicolas) An abduction-based method for index relaxation in taxonomy-based sources. (English summary) **2005c:68250**
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Milo, Tova *see* **Alon, Noga et al., 2005g:68176**
Minker, Jack (*with* Seipel, Dietmar) Disjunctive logic programming: a survey and assessment. (English summary) (*see* **2005f:68005a**)
Monjardet, Bernard *see* **Caspard, Nathalie**
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Neven, Frank (*with* Van Den Bussche, Jan) Expressiveness of structured document query languages based on attribute grammars. (English summary) **2005m:68117**
— Attribute grammars for unranked trees as a query language for structured documents. (English summary) **2005j:68069**
— *see also* **Alon, Noga et al., 2005g:68176** *and* **Martens, Wim et al., 2005m:68130**
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Olston, Chris *see* **Feder, Tomás et al., (2005i:68003)**
Oommen, B. John (*with* Rueda, Luis G.) A formal analysis of why heuristic functions work. (English summary) **2005k:90226**
Osorio, Mauricio (*with* Nieves, Juan Carlos; Jayaraman, Bharat) Aggregation in functional query languages. (English summary) **2005h:68018**
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Van Den Bussche, Jan *see* **Neven, Frank, 2005m:68117**
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Vitter, Jeffrey Scott *see* **Wang, Min[5] et al., 2005j:62135**
Wang, Haibin (*with* Smarandache, Florentin; Zhang, Yan-Qing; Sunderraman, Rajshekhar) ★ Interval neutrosophic sets and logic: theory and applications in computing.
Wang, Min[5] (*with* Iyer, Balakrishna R.; Vitter, Jeffrey Scott) Scalable mining for classification rules in relational databases. (English summary) **2005j:62135**
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Wang, Shu Jing *see* **Dong, Xiang Jun et al.**
Widom, Jennifer *see* **Feder, Tomás et al., (2005i:68003)**
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Wu, Wei Biao (*with* Ravishankar, Chinya V.) The performance of difference coding for sets and relational tables. (English summary) **2005m:68065**
Wu, Wensheng (*with* Yu, Clement; Meng, Weiyi) Database selection for longer queries. (*see* **2005i:62003**)
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Xu, Bao-Wen *see* **Kang, Dazhou et al.**
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Zhang, Yan-Qing *see* **Wang, Haibin et al.**
Zhang, Yan Qiu *see* **Zhang, Zhao Gong et al.**
Zhang, Zhao Gong (*with* Li, Jian Zhong; Zhang, Yan Qiu) Parallel mining algorithm of association rules on massive data. (Chinese. English and Chinese summaries)
Zhou, Mi[2] (*with* Wong, Man Hon) A segment-wise time warping method for time scaling searching. (English summary)

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Ajtai, Miklós The invasiveness of off-line memory checking. (English summary) (*see* **2005i:68004**)
Albers, Susanne (*with* van Stee, Rob) A study of integrated document and connection caching. (English summary) (*see* **2005b:68008**)
Bezerra, Byron L. D. (*with* de Carvalho, Francisco de A. T.) A symbolic approach for content-based information filtering. (English summary)
de Carvalho, Francisco de A. T. *see* **Bezerra, Byron L. D.**
Charikar, Moses S. Similarity estimation techniques from rounding algorithms. (English summary) (*see* **2005i:68004**)
Chen, Shu-Ching (*with* Wang, Xinran; Rishe, Naphtali; Weiss, Mark Allen) A web-based spatial data access system using semantic *R*-trees. (English summary)
Cole, Richard (*with* Hariharan, Ramesh) Faster suffix tree construction with missing suffix links. (*see* **2005i:68003**)
Dietzfelbinger, Martin (*with* Woelfel, Philipp) Almost random graphs with simple hash functions. (English summary) **2005k:68041**
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Golin, Mordecai J. (*with* Yong, Xuerong; Zhang, Yuan Ping; Sheng, Li[1]) New upper and lower bounds on the channel capacity of read/write isolated memory. (English summary) **2005f:68025**
Hariharan, Ramesh *see* **Cole, Richard, (2005i:68003)**
Hazewinkel, Michiel Dynamic stochastic models for indexes and thesauri, identification clouds, and information retrieval and storage. (English summary) (*see* **2005f:60007**)
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Madrid de la Vega, Humberto (*with* García Calvillo, Irma Delia; Resendiz Flores, Edgar Omar) Internet search engines and singular value decomposition. (Spanish. Spanish summary) (*see* **2005i:00011**)
Meghini, Carlo (*with* Sebastiani, Fabrizio; Straccia, Umberto) A model of multimedia information retrieval. (English summary)
Mühlbacher, Jörg R. Full hash table search using primitive roots of the prime residue group $\mathbf{Z}/p$. (English summary)
Muthukrishnan, S. Muthu (*with* Şahinalp, Süleyman Cenk) Approximate nearest neighbors and sequence comparison with block operations. (*see* **2005i:68003**)
Östlin, Anna (*with* Pagh, Rasmús) Uniform hashing in constant time and linear space. (English summary) **2005k:68042**
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Şahinalp, Süleyman Cenk *see* **Muthukrishnan, S. Muthu, (2005i:68003)**
Schwabe, Eric J. (*with* Sutherland, Ian M.) Efficient data mappings for parity-declustered data layouts. (English summary) **2005d:68031**
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Albers, Susanne (*with* Büttner, Markus) Integrated prefetching and caching with read and write requests. (English summary) (*see* **2005b:68005**)
Barbay, Jérémy (*with* Kenyon, Claire) Deterministic algorithm for the t-threshold set problem. (English summary) **2005d:68028**
Berlea, Alexandru (*with* Seidl, Helmut) Binary queries for document trees. (English summary) **2005d:68140**
Buhrman, Harry (*with* Miltersen, Peter Bro; Radhakrishnan, Jaikumar; Venkatesh, Srinivasan) Are bitvectors optimal? (*see* **2005i:68003**)
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Cai, Ning (*with* Tolhuizen, Ludo M. G. M.; Hollmann, Henk D. L.) Common coordinates in consecutive addresses. (English summary) **2005a:94109**
Chen, Shi-Jay (*with* Chen, Shyi-Ming) Fuzzy information retrieval based on geometric-mean averaging operators. (English summary) **2005k:03119**
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Christophi, Costas A. (*with* Mahmoud, Hosam M.) The oscillatory distribution of distances in random tries. (English summary) **2005m:60010**
Ergün, Funda (*with* Şahinalp, Süleyman Cenk; Sharp, Jonathan; Sinha, Rakesh) Biased dictionaries with fast insert/deletes. (English summary) (*see* **2005j:68008**)
Fagin, Ronald *see* **Ajtai, Miklós et al., 2005m:68060**
Friburger, N. (*with* Maurel, D.) Finite-state transducer cascades to extract named entities in texts. (English summary) **2005a:68200**
Frieze, Alan (*with* Kannan, Ravi; Vempala, Santosh S.) Fast Monte-Carlo algorithms for finding low-rank approximations. (English summary) **2005m:65006**
Grossi, Roberto (*with* Vitter, Jeffrey Scott) Compressed suffix arrays and suffix trees with applications to text indexing and string matching (extended abstract). (*see* **2005i:68003**)
Grumbach, Stéphane (*with* Rafanelli, Maurizio; Tininini, Leonardo) On the equivalence and rewriting of aggregate queries. (English summary) **2005k:68040**
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Kang, Dazhou (*with* Xu, Bao-Wen; Lu, Jianjiang; Wang, Peng) Approximate querying between heterogeneous ontologies based on association matrix. (English and Chinese summaries)
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— (*with* Yung, Moti) Cryptographic hardness based on the decoding of Reed-Solomon codes. (English summary) (*see* **2005a:68008**)
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Vadhan, Salil P. On constructing locally computable extractors and cryptosystems in the bounded storage model. (English summary) **2005e:94210**
— Constructing locally computable extractors and cryptosystems in the bounded-storage model. (English summary) **2005e:94211**
— *see also* **Barak, Boaz et al., 2005e:94107**
(Vaudenay, Serge) *see* **Martin, Bruno, 2005j:94001**
Wang, Guilin On the security of the Li-Hwang-Lee-Tsai threshold group signature scheme. (English summary) (*see* **2005b:94052**)
Wang, Huaxiong *see* **Pieprzyk, Josef, 2005e:94197** *and* **Kurnio, Hartono et al., (2005b:94052)**

Wang, Hui Rong (*with* Lü, Xue Qin; Liu, Huan Ping) A verifiable threshold secret sharing scheme based on the ElGamal system. (Chinese. English and Chinese summaries)
Wang, Shiuh-Jeng (*with* Chuang, Chen-Ming) Anonymous message communications with user hierarchy in a multicast system. (English summary) **2005e:68010**
Wang, Yu Min[2] *see* **Kang, Bao Yuan**
Wiener, Michael J. The full cost of cryptanalytic attacks. (English summary) **2005a:94070**
Wigderson, Avi Average case complexity.
Wu, Chuan-Kun (*with* Dawson, Edward) Correlation immunity and resiliency of symmetric Boolean functions. (English summary) **2005a:94071**
— *see also* **Zhang, Wen Ying[1] et al.**
Xiao, Guo Zhen[1] *see* **Zhang, Zhang, 2005f:94151**
Yan, Song-yuan ★ Number theory for computing. **2005a:11197**
Yang, Ke *see* **Garay, Juan A. et al., 2005d:94167**
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Yang, Xiong *see* **Li, Hong Da et al.**
Yie, Ikkwon (*with* Lim, Seongan; Kim, Seungjoo; Kim, Dongryeol) Prime numbers of Diffie-Hellman groups for IKE-MODP. (English summary) (*see* **2005d:94154**)
Yokoo, Makoto (*with* Suzuki, Koutarou; Hirayama, Katsutoshi) Secure distributed constraint satisfaction: reaching agreement without revealing private information. (English summary)
Yoo, Kee-Young *see* **Jeon, Jun-Cheol, (2005g:65008)**
Yung, Moti *see* **Kiayias, Aggelos, (2005a:68008); (2005a:68007)** *and* **Di Crescenzo, Giovanni et al., (2005i:68003)**
Zhang, Wen Ying[1] (*with* Wu, Chuan-Kun; Li, Shi Qu) Construction of cryptographically important Boolean permutations. (English summary)
Zhang, Zhang (*with* Xiao, Guo Zhen[1]) New multisignature scheme for specified group of verifiers. (English summary) **2005f:94151**
Zhao, Yunlei (*with* Deng, Xiao Tie; Lee, Chan Hee; Zhu, Hong[1]) Reduction zero-knowledge. (English summary) **2005a:68081**
Zhu, Hong[1] *see* **Zhao, Yunlei et al., 2005a:68081**
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Items listed otherwise than by author

Information security and cryptology—ICISC 2002 ★ Information security and cryptology—ICISC 2002. **2005b:94052**
Lecture Notes in Computer Science ★ Information security and cryptology—ICISC 2002. **2005b:94052**
Seoul ★ Information security and cryptology—ICISC 2002. **2005b:94052**

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Adler, Micah (*with* Leighton, Frank Thomson) Compression using efficient multicasting. (*see* **2005i:68003**)
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Alur, Rajeev (*with* Chaudhuri, Swarat; Etessami, Kousha; Guha, Sudipto; Yannakakis, Mihalis) Compression of partially ordered strings. (English summary) (*see* **2005b:68010**)
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Chen, Xin *see* **Li, Ming[1] et al., 2005f:68028**
Conci, Aura (*with* Aquino, Felipe R.) Fractal coding based on image local fractal dimension. (English summary)
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Deorowicz, Sebastian Context exhumation after the Burrows-Wheeler transform. (English summary) **2005m:68063**
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Giancarlo, Raffaele (*with* Sciortino, Marinella) Optimal partitions of strings: a new class of Burrows-Wheeler compression algorithms. (English summary) (*see* **2005a:68010**)
— *see also* **Buchsbaum, Adam L. et al., 2005m:68062**
Grossi, Roberto (*with* Vitter, Jeffrey Scott) Compressed suffix arrays and suffix trees with applications to text indexing and string matching (extended abstract). (*see* **2005i:68003**)
Guha, Sudipto *see* **Alur, Rajeev et al., (2005b:68010)**
He, Da-ke (*with* Yang, En-Hui) Performance analysis of grammar-based codes revisited. (English summary) **2005d:68033**
Ishai, Yuval (*with* Kushilevitz, Eyal; Ostrovsky, Rafail; Sahai, Amit) Batch codes and their applications. (English summary) **2005j:68030**
Janson, Svante (*with* Lonardi, Stefano; Szpankowski, Wojciech) On average sequence complexity. (English summary) **2005e:68041**
Jevtić, Nikola (*with* Orlitsky, Alon; Santhanam, Narayana P.) A lower bound on compression of unknown alphabets. (English summary) **2005i:68018**
Kadoya, Y. (*with* Fuketa, M.; Atlam, El-Sayed; Morita, Kazuhiro; Sumitomo, Toru; Aoe, J.) A compression algorithm using integrated record information for translation dictionaries. (English summary)
Kerenidis, Iordanis (*with* de Wolf, Ronald) Exponential lower bound for 2-query locally decodable codes via a quantum argument. (English summary) **2005e:68042**
Kieffer, John C. (*with* Szpankowski, Wojciech; Yang, En-Hui) Problems on sequences: information theory and computer science interface.
Klein, Shmuel Tomi (*with* Wiseman, Yair) Parallel Lempel Ziv coding. (English summary) **2005h:68028**
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Leighton, Frank Thomson *see* **Adler, Micah, (2005i:68003)**
Li, Ming[1] (*with* Chen, Xin; Li, Xin; Ma, Bin; Vitányi, Paul M. B.) The similarity metric. (English summary) **2005f:68028**
Li, Xin *see* **Li, Ming[1] et al., 2005f:68028**
Litow, Bruce (*with* Deo, Narsingh) Graph compression and the zeros of polynomials. (English summary) **2005k:68043**
Logeswaran, Rajasvaran Fast two-stage Lempel-Ziv lossless numeric telemetry data compression using a neural network predictor. (English summary)
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Rautio, Jussi (*with* Tanninen, Jani; Tarhio, Jorma) String matching with stopper encoding and code splitting. (English summary) (*see* **2005a:68009**)
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Savari, Serap A. Compressing a representation of events in a concurrent system. (English summary) **2005d:68034**
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Yannakakis, Mihalis *see* **Alur, Rajeev et al., (2005b:68010)**

Items with secondary classifications in 68P30

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Amigó, José M. *see* **Szczepański, Janusz et al., (2005j:92002)**
Amir, Amihood (*with* Landau, Gad M.; Sokol, Dina) Inplace 2D matching in compressed images. (English summary) **2005g:68179**
Anīsīmov, Anatolīĭ V. Data coding by linear forms of number sequences. (Russian. English and Ukrainian summaries) **2005g:94043**
— *see also* **Reznik, Yu. A., (2005d:00014)**
Ashikhmin, Alexei (*with* Litsyn, Simon) Simple MAP decoding of first-order Reed-Muller and Hamming codes. (English summary) **2005f:94166**
Astola, Jaakko T. *see* **Ryabko, B. Ya. et al., 2005e:94076**
Baeza-Yates, Ricardo (*with* Navarro, Gonzalo) Modeling text databases. (English summary) (*see* **2005f:60007**)
Barros, João (*with* Servetto, Sergio D.) Coding theorems for the sensor reachback problem with partially cooperating nodes. (English summary) **2005g:94046**
Bar-Yam, Yaneer Multiscale complexity/entropy. (English summary)
Benci, Vieri (*with* Bonanno, Claudio; Galatolo, Stefano; Menconi, G.; Virgilio, Michele) Dynamical systems and computable information. (English summary) **2005j:94015**
Ben-Sasson, Eli (*with* Goldreich, Oded; Harsha, Prahladh; Sudan, Madhu; Vadhan, Salil P.) Robust PCPs of proximity, shorter PCPs and applications to coding. (English summary) **2005j:68034**
Black, John (*with* Rogaway, Phillip; Shrimpton, Thomas) Black-box analysis of the block-cipher-based hash-function constructions from PGV. (English summary) **2005a:94051**
Bonanno, Claudio *see* **Benci, Vieri et al., 2005j:94015**
Boyd, Stephen P. *see* **Gupta, Pankaj[3] et al.**
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Chan, Yung-Kuan (*with* Wang, Her-Fa; Lee, Chin-Fan) A refined VQ-based image compression method. (English summary)
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Dai, Zongduo (*with* Jiang, Shaoquan; Imamura, Kyoki; Gong, Guang) Asymptotic behavior of normalized linear complexity of ultimately nonperiodic binary sequences. (English summary)
Désarménien, Jacques *see* **Crochemore, Maxime et al.**, **2005m:68172**
Dodis, Yevgeniy (*with* Oliveira, Roberto Imbuzeiro) On extracting private randomness over a public channel. (English summary) (*see* **2005b:68007**)
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Egiazarian, Karen O. *see* **Ryabko, B. Ya. et al.**, **2005e:94076**
Fan, John L. (*with* Poo, T. Lei; Marcus, Brian H.) Constraint gain. (English summary)
Fayolle, Julien An average-case analysis of basic parameters of the suffix tree. (English summary) (*see* **2005d:00014**)
Feder, Meir *see* **Meron, Eado**, **2005f:94064**
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— (*with* Yong, Xuerong; Zhang, Yuan Ping; Sheng, Li[1]) New upper and lower bounds on the channel capacity of read/write isolated memory. (English summary) **2005f:68025**
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Grassl, Markus Algorithmic aspects of quantum error-correcting codes. (English summary) **2005g:94131**
Gupta, Pankaj[3] (*with* Prabhakar, Balaji; Boyd, Stephen P.) Near-optimal depth-constrained codes. (English summary)
Hand, David J. Preface: pattern discovery.
Harsha, Prahladh *see* **Ben-Sasson, Eli et al.**, **2005j:68034**
He, Nan Zhong *see* **Wang, Xue Mei**, **2005i:94002**
Helleseth, Tor (*with* Maas, Martijn; Mathiassen, John Erik; Segers, Toon) Linear complexity over F_p of Sidel′nikov sequences. (English summary)
— (*with* Schaathun, Hans Georg) On the (2, 1)-separating weight of the Kerdock code. (English summary) **2005g:94137**
van der Helm, Peter A. Transparallel processing by hyperstrings. (English summary)
Ikeda, Shiro (*with* Tanaka, Toshiyuki[2]; Amari, Shun-ichi) Information geometry of turbo and low-density parity-check codes. (English summary) **2005g:94107**
Ilie, Lucian (*with* Yu, Sheng; Zhang, Kaizhong) Word complexity and repetitions in words. (English summary) **2005a:68167**
Imamura, Kyoki *see* **Dai, Zongduo et al.**
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(Kac, Mark) *see* **McEliece, Robert J.**, **2005m:94001**
Kaltchenko, Alexei (*with* Yang, En-Hui) Universal compression of ergodic quantum sources. (English summary) **2005d:81088**
Karpinski, Marek (*with* Larmore, Lawrence L.; Nekrich, Yakov) Work-efficient algorithms for the construction of length-limited Huffman codes. (English summary) **2005c:94036**
Katona, Gyula O. H. (*with* Sali, Attila) New type of coding problem motivated by database theory. (English summary) **2005e:68036**
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— (*with* Yang, En-Hui) Grammar-based lossless universal refinement source coding. (English summary) **2005f:94062**
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Li, Jin[1] Image compression: the mathematics of JPEG 2000. (English summary) **2005c:94010**
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Mantaci, Sabrina (*with* Restivo, Antonio; Sciortino, Marinella) Combinatorial aspects of the Burrows-Wheeler transform. (*see* **2005c:68010**)
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Reznik, Yu. A. (*with* Anīsīmov, Anatolīĭ V.) Using tries for universal data compression. (English summary) (*see* **2005d:00014**)
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Wu, Lenan *see* **Liu, Qiangsheng et al.**
(Xing, Chaoping) *see* **Coding, cryptography and combinatorics**, **2005c:94005**
Yang, En-Hui *see* **Kaltchenko, Alexei**, **2005d:81088**; **Kieffer, John C.**, **2005e:94070** *and* **2005f:94062**
Yong, Xuerong *see* **Golin, Mordecai J. et al.**, **2005f:68025**
Young, Neal E. *see* **Golin, Mordecai J. et al.**, (**2005i:68004**)
Yu, Sheng *see* **Ilie, Lucian et al.**, **2005a:68167**
Zhang, Junan *see* **Orlitsky, Alon et al.**, **2005f:94066**
Zhang, Kaizhong *see* **Ilie, Lucian et al.**, **2005a:68167**

Zhang, Wen Ying[1] (*with* Wu, Chuan-Kun; Li, Shi Qu) Construction of cryptographically important Boolean permutations. (English summary)
Zhang, Yuan Ping *see* **Golin, Mordecai J. et al., 2005f:68025**
Zhu, Xuan Yong (*with* Qi, Wen Feng) Compression mappings on primitive sequences over $Z/(p^e)$. (English summary)

Items listed otherwise than by author

Coding, cryptography and combinatorics ★ Coding, cryptography and combinatorics. **2005c:94005**

68P99 None of the above, but in this section

Cormode, Graham (*with* Muthukrishnan, S. Muthu) Estimating dominance norms of multiple data streams. (English summary) (*see* **2005c:68003**)
Dubhashi, Devdatt (*with* Laura, Luigi; Panconesi, Alessandro) Analyis and experimental evaluation of a simple algorithm for collaborative filtering in planted partition models (extended abstract). (English summary) (*see* **2005d:68008**)
Ergün, Funda (*with* Muthukrishnan, S. Muthu; Şahinalp, Süleyman Cenk) Sublinear methods for detecting periodic trends in data streams. (English summary) (*see* **2005d:68010**)
Laura, Luigi *see* **Dubhashi, Devdatt et al., (2005d:68008)**
Muthukrishnan, S. Muthu (*with* Strauss, Martin Joel) Maintenance of multidimensional histograms. (English summary) **2005e:68043**
— *see also* **Cormode, Graham, (2005c:68003)** *and* **Ergün, Funda et al., (2005d:68010)**
Panconesi, Alessandro *see* **Dubhashi, Devdatt et al., (2005d:68008)**
Şahinalp, Süleyman Cenk *see* **Ergün, Funda et al., (2005d:68010)**
Strauss, Martin Joel *see* **Muthukrishnan, S. Muthu, 2005e:68043**

Items with secondary classifications in 68P99

Arikawa, Setsuo *see* **Inenaga, Shunsuke et al., (2005b:68019)**
Bannai, Hideo *see* **Inenaga, Shunsuke et al., (2005b:68019)**
Inenaga, Shunsuke (*with* Shinohara, Ayumi; Takeda, Masayuki; Bannai, Hideo; Arikawa, Setsuo) Space-economical construction of index structures for all suffixes of a string. (English summary) (*see* **2005b:68019**)
Kurosawa, Kaoru *see* **Ogata, Wakaha, 2005j:94019**
Motwani, Rajeev (*with* Panigrahy, Rina; Saraswat, Vijay; Ventkatasubramanian, Suresh) On the decidability of accessibility problems (extended abstract). (*see* **2005i:68003**)
Ogata, Wakaha (*with* Kurosawa, Kaoru) Oblivious keyword search. (English summary) **2005j:94019**
Padmanabhan, Balaji The interestingness paradox in pattern discovery. (English summary) **2005j:68106**
Panigrahy, Rina *see* **Motwani, Rajeev et al., (2005i:68003)**
Saraswat, Vijay *see* **Motwani, Rajeev et al., (2005i:68003)**
Shinohara, Ayumi *see* **Inenaga, Shunsuke et al., (2005b:68019)**
Takeda, Masayuki *see* **Inenaga, Shunsuke et al., (2005b:68019)**
Ventkatasubramanian, Suresh *see* **Motwani, Rajeev et al., (2005i:68003)**

68Qxx Theory of computing

Papadimitriou, Christos H. The joy of theory. (English summary) (*see* **2005i:68004**)

68Q01 General

Veni Madhavan, C. E. Mathematics and computer science: the interplay. (English summary)
Wigderson, Avi Depth through breadth, or why should we attend talks in other areas? (English summary) (*see* **2005i:68005**)

Items with secondary classifications in 68Q01

Arkoudas, Konstantine *see* **Bringsjord, Selmer, 2005b:68222**
Bringsjord, Selmer (*with* Arkoudas, Konstantine) The modal argument for hypercomputing minds. (English summary) **2005b:68222**
Burgin, Mark Nonlinear phenomena in spaces of algorithms. (English summary) **2005a:68064**
Kugel, Peter Toward a theory of intelligence. (English summary) **2005b:68223**
Lassaigne, Richard (*with* de Rougemont, Michel) ★ Logic and complexity. **2005k:68001**
de Luca, Aldo (*with* Mignosi, Filippo; Perrin, Dominique; Rozenberg, Grzegorz) Preface [The art of theory].
Mignosi, Filippo *see* **de Luca, Aldo et al.**
Perrin, Dominique *see* **de Luca, Aldo et al.**
(Restivo, Antonio) *see* **de Luca, Aldo et al.**
de Rougemont, Michel *see* **Lassaigne, Richard, 2005k:68001**
Rozenberg, Grzegorz *see* **de Luca, Aldo et al.**

Items listed otherwise than by author

Bibliography:
Restivo, Antonio *see* **de Luca, Aldo et al.**

68Q05 Models of computation (Turing machines, etc.) [see also 03D10, 81P68]

Aaronson, Scott Quantum lower bound for the collision problem. (English summary) (*see* **2005i:68004**)
— Lower bounds for local search by quantum arguments. (English summary) **2005i:68019**
Ablaev, Farid M. (*with* Moore, Cristopher; Pollett, Christopher) Quantum and stochastic branching programs of bounded width (track A). (English summary) (*see* **2005a:68008**)
— (*with* Gainutdinova, Aida) Classical simulation complexity of quantum machines. (English summary) **2005b:68086**
Alhazov, Artiom (*with* Martín-Vide, Carlos; Pan, Lin Qiang) Solving a PSPACE-complete problem by recognizing P systems with restricted active membranes. (English summary) **2005c:68043**
— (*with* Pan, Lin Qiang; Păun, Gheorghe) Trading polarization for labels in P systems with active membranes. (English summary) **2005g:68032**
— On determinism of evolution-communication P systems. (English summary) **2005m:68066**
Altenberg, Lee Open problems in the spectral analysis of evolutionary dynamics. (English summary) (*see* **2005f:68006**)
Ambainis, Andris Quantum lower bounds by quantum arguments. (*see* **2005i:68003**)
— (*with* Ķikusts, Arnolds) Exact results for accepting probabilities of quantum automata. (English summary) **2005b:68087**
Angelsmark, Ola (*with* Dahllöf, Vilhelm; Jonsson, Peter) Finite domain constraint satisfaction using quantum computation. (English summary) (*see* **2005b:68019**)
Antunes, Luís (*with* Fortnow, Lance; Vinodchandran, N. V.) Using depth to capture average-case complexity. (English summary) **2005c:68044**
Artho, Cyrille (*with* Barringer, Howard; Goldberg, Allen; Havelund, Klaus; Khurshid, Sarfraz; Lowry, Mike; Pasareanu, Corina; Roşu, Grigore; Sen, Koushik; Visser, Willem; Washington, Rich) Combining test case generation and runtime verification. (English summary)
Arulanandham, Joshua J. (*with* Calude, Cristian S.; Dinneen, Michael J.) A fast natural algorithm for searching. (English summary) **2005a:68063**
Attie, Paul C. *see* **Goldin, Dina Q. et al., 2005k:68045**
Barringer, Howard *see* **Artho, Cyrille et al.**
Beaudry, Martin (*with* Fernandez, José M.; Holzer, Markus) A common algebraic description for probabilistic and quantum computations (extended abstract). (English summary) (*see* **2005m:68011**)
Bernardini, Francesco (*with* Gheorghe, Marian) Population P systems. (English summary)
Bertoni, Alberto (*with* Mereghetti, Carlo; Palano, Beatrice) Lower bounds on the size of quantum automata accepting unary languages. (English summary) **2005b:68088**
Bilardi, Gianfranco (*with* Peserico, Enoch) A characterization of temporal locality and its portability across memory hierarchies. (English summary) (*see* **2005a:68007**)
Blass, Andreas (*with* Gurevich, Yuri) Algorithms: a quest for absolute definitions. (English summary)
Blum, Lenore Computing over the reals: where Turing meets Newton. **2005c:68044**
Bollig, Beate (*with* Woelfel, Philipp) A lower bound technique for nondeterministic graph-driven read-once-branching programs and its applications (extended abstract). (English summary) (*see* **2005b:68019**)
— Complexity theoretical results on nondeterministic graph-driven read-once branching programs (extended abstract). (English summary) (*see* **2005b:68025**)
Bonizzoni, Paola (*with* De Felice, Clelia; Mauri, Giancarlo; Zizza, Rosalba) Circular splicing and regularity. (English summary) **2005c:68045**
Börger, Egon The ASM ground model method as a foundation of requirements engineering. (English summary) (*see* **2005d:68014**)
Brosenne, Henrik (*with* Homeister, Matthias; Waack, Stephan) Lower bounds for general graph-driven read-once parity branching programs. (English summary) **2005c:68046**
Buhrman, Harry (*with* Röhrig, Hein) Distributed quantum computing. (English summary) (*see* **2005b:68020**)
Burgin, Mark Nonlinear phenomena in spaces of algorithms. (English summary) **2005a:68064**
Calude, Cristian S. *see* **Arulanandham, Joshua J. et al., 2005a:68063**
Campagnolo, Manuel Lameiras Continuous-time computation with restricted integration capabilities. (English summary) **2005f:68030**
Casasnovas, Jaume (*with* Miró-Julià, José J.; Moyà, Manuel; Rosselló-Llompart, Francesc) An approach to membrane computing under inexactitude. (English summary) **2005h:68029**
Castellanos, Juan (*with* Leupold, Peter; Mitrana, Victor) On the size complexity of hybrid networks of evolutionary processors. (English summary) **2005h:68030**
Cavaliere, Matteo (*with* Genova, Daniela) P systems with symport/antiport of rules. (English summary)
Chaitin, Gregory Leibniz, randomness & the halting probability.
Chashkin, A. V. Modeling circuits consisting of functional elements on a universal Turing machine. (Russian. Russian summary) **2005b:68089**
Chen, Wei[3] *see* **Fujiwara, Akihiro et al., 2005a:68066**
Cordón-Franco, Andrés (*with* Sancho-Caparrini, Fernando) A note on complexity measures for probabilistic P systems. (English summary)
Costa, José Félix *see* **Mycka, Jerzy, 2005g:68036**
Cotta, Carlos (*with* Moscato, Pablo) Evolutionary computation: challenges and duties. (English summary) (*see* **2005f:68006**)
Csuhaj-Varjú, Erzsébet (*with* Martín-Vide, Carlos; Mitrana, Victor) Hybrid networks of evolutionary processors are computationally complete. (English summary) **2005k:68044**
— (*with* Dassow, Jürgen) A remark on evolutionary systems. (English summary) **2005g:68033**
Dahllöf, Vilhelm *see* **Angelsmark, Ola et al., (2005b:68019)**
Dang, Zhe *see* **Xie, Gaoyan et al., 2005c:68053** *and* **Ibarra, Oscar H. et al., (2005b:68020)**
Dantsin, E. Ya. (*with* Wolpert, Alexander) Solving constraint satisfaction problems with DNA computing. (English summary) (*see* **2005a:68012**)
— (*with* Wolpert, Alexander) A robust DNA computation model that captures PSPACE. (English summary) **2005b:68090**
Dassow, Jürgen *see* **Csuhaj-Varjú, Erzsébet, 2005g:68033**
De Felice, Clelia *see* **Bonizzoni, Paola et al., 2005c:68045**
De Jong, Kenneth Two grand challenges for EC. (English summary) (*see* **2005f:68006**)
De la Torre, Pilar How efficiently can room at the bottom be traded away for speed at the top? (English summary) **2005b:68096**
Demaine, Erik D. *see* **Hearn, Robert A., (2005a:68008)**
Dinneen, Michael J. *see* **Arulanandham, Joshua J. et al., 2005a:68063**
Dong, Yafei *see* **Xu, Jin[2] et al.**
Dzyuzhan'ski, P. Modelling of complex systems given as a Mealy machine with linear decision diagrams. (English summary) (*see* **2005c:00015**)
Eberbach, Eugene (*with* Wegner, Peter) Beyond Turing machines. (English summary)

Eğecioğlu, Ömer *see* **Ibarra, Oscar H. et al.**, (2005b:68020)
Fantozzi, Carlo (*with* Pietracaprina, Andrea; Pucci, Geppino) Seamless integration of parallelism and memory hierarchy (extended abstract). (English summary) (*see* **2005a:68008**)
Fernandez, José M. *see* **Beaudry, Martin et al.**, (2005m:68011)
Fontana, Federico (*with* Franco, Giuditta) Finding the maximum element using P systems. (English summary)
Fortnow, Lance *see* **Antunes, Luís et al.**, 2005c:68044
Franco, Giuditta *see* **Fontana, Federico**
Freund, Rudolf (*with* Kelemen, Jozef; Păun, Gheorghe) A note on emergence in multi-agent string processing systems. (English summary)
— P systems working in the sequential mode on arrays and strings. (English summary)
— (*with* Păun, Gheorghe; Pérez-Jiménez, Mario J.) Tissue P systems with channel states. (English summary) **2005h:68031**
— (*with* Kari, Lila; Oswald, Marion; Sosík, Petr) Computationally universal P systems without priorities: two catalysts are sufficient. (English summary) **2005h:68032**
Frisco, Pierluigi (*with* Hoogeboom, Hendrik Jan) P systems with symport/antiport simulating counter automata. (English summary) **2005g:68034**
— The conformon-P system: a molecular and cell biology-inspired computability model. (English summary) **2005a:68065**
Fujiwara, Akihiro (*with* Matsumoto, Ken'ichi; Chen, Wei[3]) Procedures for logic and arithmetic operations with DNA molecules. (English summary) **2005a:68066**
Gainutdinova, Aida *see* **Ablaev, Farid M.**, 2005b:68086
Genova, Daniela *see* **Cavaliere, Matteo**
Gheorghe, Marian *see* **Bernardini, Francesco**
Glässer, Uwe (*with* Gu, Qian-Ping) Formal description and analysis of a distributed location service for mobile ad hoc networks. (English summary) **2005m:68067**
Goldberg, Allen *see* **Artho, Cyrille et al.**
Goldin, Dina Q. (*with* Smolka, Scott A.; Attie, Paul C.; Sonderegger, Elaine L.) Turing machines, transition systems, and interaction. (English summary) **2005k:68045**
Graça, Daniel Silva Some recent developments on Shannon's general purpose analog computer. (English summary) **2005f:68031**
Gröpl, Clemens (*with* Prömel, Hans Jürgen; Srivastav, Anand) Ordered binary decision diagrams and the Shannon effect. (English summary) **2005f:68032**
Grover, Lov K. Rapid sampling through quantum computing. (*see* **2005i:68003**)
Gu, Qian-Ping *see* **Glässer, Uwe**, 2005m:68067
Gurevich, Yuri *see* **Blass, Andreas**
Hallgren, Sean (*with* Russell, Alexander; Ta-Shma, Amnon) Normal subgroup reconstruction and quantum computation using group representations. (*see* **2005i:68003**)
Harju, Tero (*with* Petre, Ion; Rozenberg, Grzegorz) Gene assembly in ciliates. I. Molecular operations.
— (*with* Petre, Ion; Rozenberg, Grzegorz) Gene assembly in ciliates. II. Formal frameworks. (English summary)
Harman, M. *see* **Hierons, R. M.**, 2005f:68033
Havelund, Klaus *see* **Artho, Cyrille et al.**
Hearn, Robert A. (*with* Demaine, Erik D.) The nondeterministic constraint logic model of computation: reductions and applications. (English summary) (*see* **2005a:68008**)
Hierons, R. M. (*with* Harman, M.) Testing conformance of a deterministic implementation against a non-deterministic stream X-machine. (English summary) **2005f:68033**
Holzer, Markus *see* **Beaudry, Martin et al.**, (2005m:68011)
Homeister, Matthias *see* **Brosenne, Henrik et al.**, 2005c:68046
Hoogeboom, Hendrik Jan *see* **Frisco, Pierluigi**, 2005g:68034
Høyer, Peter (*with* Špalek, Robert) Quantum circuits with unbounded fan-out. (English summary) **2005b:68091**
Hromkovič, Juraj (*with* Schnitger, Georg) Pushdown automata and multicounter machines, a comparison of computation modes (extended abstract). (English summary) (*see* **2005b:68008**)
— (*with* Schnitger, Georg) Nondeterminism versus determinism for two-way finite automata: generalizations of Sipser's separation. (English summary) **2005c:68047**
Ibarra, Oscar H. (*with* Dang, Zhe; Eğecioğlu, Ömer; Saxena, Gaurav) Characterizations of catalytic membrane computing systems (extended abstract). (English summary) (*see* **2005b:68020**)
— (*with* Yen, Hsu-Chun; Dang, Zhe) The power of maximal parallelism in P systems. (English summary)
— On the computational complexity of membrane systems. (English summary) **2005e:68045**
— *see also* **Xie, Gaoyan et al.**, 2005c:68053
Imai, Hiroshi *see* **Sakakibara, Yasubumi**, 2005b:68094
Inoue, Atsuyuki (*with* Ito, Akira; Inoue, Katsushi; Okazaki, Tokio) Some properties of one-pebble Turing machines with sublogarithmic space. (English summary) **2005d:68035**
— (*with* Inoue, Katsushi; Ito, Akira; Wang, Yue[2]; Okazaki, Tokio) A note on one-pebble two-dimensional Turing machines. (English summary) **2005b:68092**
Inoue, Katsushi (*with* Ito, Akira; Kamiura, Takashi; Petersen, Holger; Zhang, Lan) A note on rebound Turing machines. (English summary) **2005g:68035**
— *see also* **Inoue, Atsuyuki et al.**, 2005b:68092 *and* **2005d:68035**
Ionescu, Mihai (*with* Sburlan, Dragoş) On P systems with promoters/inhibitors. (English summary)
Ishdorj, Tseren-Onolt *see* **Pan, Lin Qiang**
Ito, Akira *see* **Inoue, Atsuyuki et al.**, 2005b:68092; **2005d:68035** *and* **Inoue, Katsushi et al.**, 2005g:68035
Jonsson, Peter *see* **Angelsmark, Ola et al.**, (2005b:68019)
Kamiura, Takashi *see* **Inoue, Katsushi et al.**, 2005g:68035
Kára, Jan (*with* Kráľ, Daniel) Optimal free binary decision diagrams for computation of EAR_n. (English summary) (*see* **2005b:68019**)
Kari, Lila *see* **Freund, Rudolf et al.**, 2005h:68032
Kelemen, Jozef *see* **Freund, Rudolf et al.**
Khurshid, Sarfraz *see* **Artho, Cyrille et al.**
Kieu, Tien D. Quantum algorithm for Hilbert's tenth problem. (English summary) **2005e:68046**
— Hypercomputation with quantum adiabatic processes. (English summary) **2005d:68036**
— *see also* **Ord, Toby**, 2005k:68049
Ķikusts, Arnolds *see* **Ambainis, Andris**, 2005b:68087
Klauck, Hartmut Quantum time-space tradeoffs for sorting. (English summary) **2005k:68046**
— Quantum and approximate privacy. (English summary) **2005i:68020**
Kolpakov, A. (*with* Latypov, R. Kh.) Approximate algorithms for the minimization of binary decision diagrams on the basis of linear transformations of variables. (Russian. Russian summary) **2005d:68037**
Konečný, Michal Real functions incrementally computable by finite automata. (English summary) **2005e:68047**
Kráľ, Daniel *see* **Kára, Jan**, (2005b:68019)
Kreinovich, Vladik (*with* Longpré, Luc) Fast quantum algorithms for handling probabilistic and interval uncertainty. (English summary) **2005f:68034**
Krishnamurthy, E. V. Problems and prospects for quantum computational speed-up. (English summary) (*see* **2005g:65007**)
Krithivasan, Kamala *see* **Mutyam, Madhu et al.**
Kuske, Dietrich (*with* Weigel, Peter) The role of the complementarity relation in Watson-Crick automata and sticker systems. (English summary)
Lanotte, Ruggero (*with* Maggiolo-Schettini, Andrea; Peron, Adriano; Tini, Simone) Dynamic hierarchical machines. (English summary) **2005e:68048**
Latypov, R. Kh. *see* **Kolpakov, A.**, 2005d:68037
Lee, Cassey Emergence and universal computation. (English summary) **2005c:68048**
van Leeuwen, Jan *see* **Verbaan, Peter et al.**, 2005h:68034
Leporati, Alberto (*with* Zandron, Claudio; Mauri, Giancarlo) Simulating the Fredkin gate with energy-based P systems. (English summary) **2005m:68068**
— *see also* **Mauri, Giancarlo**, 2005c:68050
Leupold, Peter *see* **Castellanos, Juan et al.**, 2005h:68030
Levine, R. D. *see* **Remacle, F.**, 2005g:68037
Li, San Ping *see* **Xu, Jin[2] et al.**
Lisovik, L. P. Structured Turing machines. (Russian. English and Ukrainian summaries) **2005k:68047**
Liu, Guangwu *see* **Pan, Lin Qiang et al.**
Liu, Xing Wu[2] (*with* Xu, Zhi Wei; Sun, Yu Zhong) Notes on interaction and Turing-computability.
— (*with* Xu, Zhi Wei; Sun, Yu Zhong) Notes on interaction and Turing computability. (Chinese)
Liu, Yachun *see* **Pan, Lin Qiang et al.**
Longpré, Luc *see* **Kreinovich, Vladik**, 2005f:68034
Losseva, Elena Building reliable systems from unreliable components and the DNA computing paradigm. (English summary)
Lowry, Mike *see* **Artho, Cyrille et al.**
Lu, Mingming *see* **Qu, Huiqin et al.**
MacLennan, Bruce J. Natural computation and non-Turing models of computation. (English summary) **2005c:68049**
Maggiolo-Schettini, Andrea *see* **Lanotte, Ruggero et al.**, 2005e:68048
Margenstern, Maurice Turing machines: universality and limits of computational power. (*see* **2005g:68088**)
Martín-Vide, Carlos *see* **Alhazov, Artiom et al.**, 2005c:68043 *and* **Csuhaj-Varjú, Erzsébet et al.**, 2005k:68044
Matsumoto, Ken'ichi *see* **Fujiwara, Akihiro et al.**, 2005a:68066
Mauri, Giancarlo (*with* Leporati, Alberto) On the computational complexity of conservative computing. (English summary) **2005c:68050**
— *see also* **Bonizzoni, Paola et al.**, 2005c:68045 *and* **Leporati, Alberto et al.**, 2005m:68068
McKenzie, Pierre (*with* Vollmer, Heribert; Wagner, Klaus W.) Arithmetic circuits and polynomial replacement systems. (English summary) **2005k:68048**
Mereghetti, Carlo *see* **Bertoni, Alberto et al.**, 2005b:68088
Michel, Pascal Small Turing machines and generalized busy beaver competition. (English summary) **2005e:68049**
Miró-Julià, José J. *see* **Casasnovas, Jaume et al.**, 2005h:68029
Mitrana, Victor *see* **Castellanos, Juan et al.**, 2005h:68030 *and* **Csuhaj-Varjú, Erzsébet et al.**, 2005k:68044
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Moyà, Manuel *see* **Casasnovas, Jaume et al.**, 2005h:68029
Mühlenbein, Heinz Towards a theory of organisms and evolving automata. (English summary) (*see* **2005f:68006**)
Mutyam, Madhu (*with* Prakash, Vaka Jaya; Krithivasan, Kamala) Rewriting tissue P systems. (English summary)
Mycka, Jerzy (*with* Costa, José Félix) Real recursive functions and their hierarchy. (English summary) **2005g:68036**
Naughton, Thomas J. *see* **Woods, Damien**, 2005k:68053
Nishimura, Harumichi (*with* Ozawa, Masanao) Uniformity of quantum circuit families for error-free algorithms. (English summary) **2005i:68021**
Okazaki, Tokio *see* **Inoue, Atsuyuki et al.**, 2005b:68092 *and* **2005d:68035**
Ord, Toby (*with* Kieu, Tien D.) The diagonal method and hypercomputation. (English summary) **2005k:68049**
Osipov, S. A. The problem of the applicability of the normal algorithm of A. A. Markov. I. (Russian. English and Russian summaries) **2005i:68022**
— The problem of the applicability of the normal algorithm of A. A. Markov. II. (Russian. English and Russian summaries) **2005i:68023**
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Ozawa, Masanao *see* **Nishimura, Harumichi**, 2005i:68021
Palano, Beatrice *see* **Bertoni, Alberto et al.**, 2005b:68088
Palem, Krishna V. Computational proof as experiment: probabilistic algorithms from a thermodynamic perspective. (English summary) **2005f:68035**
Pan, Lin Qiang (*with* Ishdorj, Tseren-Onolt) P systems with active membranes and separation rules. (English summary)
— (*with* Liu, Guangwu; Xu, Jin[2]; Liu, Yachun) Solid phase based DNA solution of the coloring problem. (English summary)
— *see also* **Alhazov, Artiom et al.**, 2005c:68043 *and* **2005g:68032**

Pardo, D. (*with* Rabinovich, Alexander; Trakhtenbrot, Boris A.) Synchronous circuits over continuous time: feedback reliability and completeness. (English summary) **2005e:68050**
Pasareanu, Corina *see* **Artho, Cyrille et al.**
Păun, Gheorghe Membrane computing. (English summary) **2005b:68093**
— Membrane computing. (English summary) (*see* **2005g:68088**)
— (*with* Pérez-Jiménez, Mario J.; Riscos-Núñez, Agustín) P systems with tables of rules. (English summary) **2005h:68033**
— *see also* **Alhazov, Artiom et al., 2005g:68032** *and* **Freund, Rudolf et al., 2005h:68031**
Pérez-Jiménez, Mario J. (*with* Romero-Campero, Francisco José) An efficient family of P systems for packing items into bins. (English summary)
— *see also* **Freund, Rudolf et al., 2005h:68031** *and* **Păun, Gheorghe et al., 2005h:68033**
Peron, Adriano *see* **Lanotte, Ruggero et al., 2005e:68048**
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— *see also* **Pan, Lin Qiang et al.**
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Abbott, Derek (*with* Doering, Charles R.; Caves, Carlton M.; Lidar, Daniel A.; Brandt, Howard E.; Hamilton, Alex R.; Ferry, David K.; Gea-Banacloche, Julio; Bezrukov, Sergey M.; Kish, Laszlo B.) Dreams versus reality: plenary debate session on quantum computing.
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Groote, Jan Friso (*with* Zantema, Hans) Resolution and binary decision diagrams cannot simulate each other polynomially. (English summary) **2005a:03026**
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Gudder, Stanley Computational logic on Fock space. (English summary) **2005h:81034**
Gurvits, Leonid Classical deterministic complexity of Edmond's problem and quantum entanglement. (English summary) **2005k:68092**
Gutiérrez-Naranjo, Miguel A. (*with* Rogozhin, Vladimir) Deductive databases and P systems. (English summary)
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Haddad, Yael *see* **Choffrut, Christian, 2005a:68225**
Halava, Vesa Decidability in infinite post correspondence problem. (English summary) (*see* **2005c:68010**)
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Hariharan, Ramesh *see* **Cole, Richard et al., 2005a:68229**
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Heckmann, Reinhold *see* **Edalat, Abbas,** (2005b:68006)
Heinrich, Stefan (*with* Kwas, Marek; Woźniakowski, Henryk) Quantum Boolean summation with repetitions in the worst-average setting. (English summary) **2005d:81087**
— On the power of quantum algorithms for vector valued mean computation. (English summary) **2005g:81061**
Hofmann, Martin *see* **Escardó, Martín Hötzel et al., 2005k:68127**
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Holzer, Markus *see* **Damm, Carsten et al., 2005a:68074**
Høyer, Peter (*with* Mosca, Michele; de Wolf, Ronald) Quantum search on bounded-error imputs. (English summary) (*see* **2005b:68008**)
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Husfeldt, Thore (*with* Rauhe, Theis) New lower bound techniques for dynamic partial sums and related problems. (English summary) **2005c:68077**
Ibarra, Oscar H. On membrane hierarchy in P systems. (English summary) **2005k:68057**
Imai, Hiroshi *see* **Yamasaki, Tomohiro et al., 2005c:81042**
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Ivanyos, Gábor *see* **Friedl, Katalin et al., 2005j:81037**
Iwama, Kazuo (*with* Kawachi, Akinori; Yamashita, Shigeru) Quantum sampling for balanced allocations. (English summary) **2005c:81039**
— *see also* **Ambainis, Andris et al., 2005f:81036**
Japaridze, Giorgi Introduction to computability logic. (English summary) **2005b:03073**
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Kacewicz, Bolesław Randomized and quantum algorithms yield a speed-up for initial-value problems. (English summary) **2005g:68190**
Kaltchenko, Alexei (*with* Yang, En-Hui) Universal compression of ergodic quantum sources. (English summary) **2005d:81088**
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Kelly, Kevin T. Uncomputability: the problem of induction internalized. (English summary) **2005d:03009**
Kempe, Julia Discrete quantum walks hit exponentially faster. (English summary) **2005m:81063**
— (*with* Regev, Oded) 3-local Hamiltonian is QMA-complete. (English summary) **2005b:68106**
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Kindler, Guy (*with* Romik, Dan) On distributions computable by random walks on graphs. (English summary) **2005k:68120**
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Kitaev, Alexei (*with* Watrous, John) Parallelization, amplification, and exponential time simulation of quantum interactive proof systems. (*see* **2005i:68003**)
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Klauck, Hartmut On quantum and probabilistic communication: Las Vegas and one-way protocols. (*see* **2005i:68003**)
— (*with* Nayak, Ashwin; Ta-Shma, Amnon; Zuckerman, David) Interaction in quantum communication and the complexity of set disjointness. (English summary) (*see* **2005j:68008**)
— Quantum and classical communication-space tradeoffs from rectangle bounds (extended abstract). (English summary) (*see* **2005m:68007**)
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Kobayashi, Hirotada (*with* Matsumoto, Keiji[2]) Quantum multi-prover interactive proof systems with limited prior entanglement. (English summary) (*see* **2005b:68004**)
— (*with* Matsumoto, Keiji[2]; Yamakami, Tomoyuki) Quantum Merlin-Arthur proof systems: are multiple Merlins more helpful to Arthur? (English summary) **2005d:68047**
— *see also* **Yamasaki, Tomohiro et al., 2005c:81042**
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— *see also* **Heinrich, Stefan et al., 2005d:81087**
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Li, Yuan[2] (*with* Fang, Chen; Ouyang, Qi) Genetic algorithm in DNA computing: a solution to the maximal clique problem. (English summary)
Lidar, Daniel A. On the quantum computational complexity of the Ising spin glass partition function and of knot invariants. (English summary) **2005i:82022**
— *see also* **Abbott, Derek et al.**
Liu, Wenbin *see* **Gao, Lin[2] et al.**
Long, Gui Lu (*with* Li, Xiao[1]) Parallel quantum computing in a single ensemble quantum computer. (English summary) **2005d:81094**
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Marcus, Solomon *see* **Calude, Cristian S. et al.**
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Margenstern, Maurice (*with* Păun, Gheorghe; Rogozhin, Yurii; Verlan, Sergey) Context-free insertion-deletion systems. (English summary) **2005h:68060**
— *see also* **Grigorieff, Serge, 2005f:68098**
Markov, Igor L. *see* **Viamontes, George F. et al., 2005d:81103** *and* **Shende, Vivek V., 2005m:81067**
Martín-Vide, Carlos (*with* Pazos, J.; Păun, Gheorghe; Rodríguez-Patón, A.) A new class of symbolic abstract neural nets: tissue P systems. (English summary) (*see* **2005a:68012**)
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— On a refined analysis of some problems in interval arithmetic using real number complexity theory. (English summary) **2005g:65077**

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Mills, Lan *see* **Calude, Elena et al., 2005b:68167**
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Muir, Alex (*with* Düntsch, Ivo; Gediga, Günther) Rough set data representation using binary decision diagrams. (English and Spanish summaries)
Muthukrishnan, S. Muthu *see* **Cole, Richard et al., 2005a:68229**
Myrgren, E. S. (*with* Whaley, K. Birgitta) Implementing a quantum algorithm with exchange-coupled quantum dots: a feasibility study. (English summary) **2005d:81096**
Nanchen, Stanislas (*with* Stärk, Robert F.) A logic for secure memory access of abstract state machines. (English summary) **2005k:03076**
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Nishimura, Harumichi On quantum computation with some restricted amplitudes. (English summary) (*see* **2004j:68020**)
— (*with* Yamakami, Tomoyuki) Polynomial time quantum computation with advice. (English summary) **2005a:81046**
Novak, Erich (*with* Sloan, Ian H.; Woźniakowski, Henryk) Tractability of approximation for weighted Korobov spaces on classical and quantum computers. (English summary) **2005h:81097**
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— *see also* **Accardi, Luidgi, 2005k:81042**
Ono, Hirotaka *see* **Kobayashi, Takenori et al., 2005c:81040**
Orús, Román (*with* Latorre, José I.) Universality of entanglement and quantum-computation complexity. (English summary) **2005d:81068**
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Ozeri, R. *see* **Chiaverini, J. et al., 2005k:81046**
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Papageorgiou, Anargyros Average case quantum lower bounds for computing the Boolean mean. (English summary) **2005g:81064**
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Păun, Gheorghe (*with* Suzuki, Yasuhiro; Tanaka, Hiroshi[3]; Yokomori, Takashi) On the power of membrane division in P systems. (English summary) **2005g:68070**
— *see also* **Margenstern, Maurice et al., 2005h:68060** *and* **Martín-Vide, Carlos et al., (2005a:68012)**
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Pontelli, Enrico (*with* Ranjan, Desh) A simple optimal solution for the temporal precedence problem on pure pointer machines. (English summary) **2005h:68022**
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Protopopescu, Vladimir A. (*with* Barhen, Jacob) Quantum algorithm for continuous global optimization. (English summary) **2005m:90089**
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Qiu, Daowen Automata theory based on quantum logic: some characterizations. (English summary) **2005k:03143**
Ranjan, Desh *see* **Pontelli, Enrico, 2005h:68022**
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Razborov, A. A. An upper bound on the threshold quantum decoherence rate. (English summary) **2005g:81065**
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Regev, Oded *see* **Kempe, Julia, 2005b:68106**
Reichardt, Ben W. The quantum adiabatic optimization algorithm and local minima. (English summary) **2005j:81042**
Reif, John H. (*with* Sun, Zheng[1]) On frictional mechanical systems and their computational power. (English summary) **2005f:68145**
Reiser, Renata Hax Sander (*with* Dimuro, Graçaliz Pereira; da Rocha Costa, Antônio Carlos) The interval geometric machine model. (English summary) **2005h:68111**
Remmel, Jeffrey B. *see* **Marek, Victor W., 2005b:68057**
Rettinger, Robert (*with* Weihrauch, Klaus) The computational complexity of some Julia sets. (English summary) **2005j:68060**
Rocha, Armando Freitas (*with* Massad, Eduardo; Pereira, Alfredo, Jr.) ★ The brain: fuzzy arithmetic to quantum computing. **2005h:92007**
da Rocha Costa, Antônio Carlos *see* **Reiser, Renata Hax Sander et al., 2005h:68111**
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Ruohonen, Keijo Chomskian hierarchies of families of sets of piecewise continuous functions. (English summary) **2005g:37017**
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— *see also* **Moore, Cristopher, 2005a:81114**
Rybalov, A. N. Computational complexity in algebraic systems. (Russian. Russian summary) **2005i:68026**
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Salomaa, Arto Developmental languages versus DNA computing. (English summary) (*see* **2005g:68088**)
Samoĭlenko, Anatoliĭ Mikhaĭlovich (*with* Prikarpat·s′kiĭ, Ya. A.; Taneri, Ufuk; Prikarpat·skiĭ, A. K.; Blackmore, D. L.) A geometrical approach to quantum holonomic computing algorithms. (English summary) **2005d:81099**
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Sauerhoff, Martin (*with* Woelfel, Philipp) Time-space tradeoff lower bounds for integer multiplication and graphs of arithmetic functions. (English summary) **2005k:68079**
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Selinger, Peter Towards a quantum programming language. (English summary) **2005e:68020**
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Sempere, José M. A representation theorem for languages accepted by Watson-Crick finite automata. (English summary)
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Smelyanskiy, V. N. (*with* Knysh, S.; Morris, Robin D.) Quantum adiabatic optimization and combinatorial landscapes. (English summary) **2005k:81050**
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Song, Guang (*with* Klappenecker, Andreas) Optimal realizations of simplified Toffoli gates. (English summary) **2005h:81101**
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— *see also* **Margenstern, Maurice et al., 2005h:68060**
Viamontes, George F. (*with* Markov, Igor L.; Hayes, John P.) Improving gate-level simulation of quantum circuits. (English summary) **2005d:81103**
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— On the complexity of simulating space-bounded quantum computations. (English summary) **2005f:68047**
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Woelfel, Philipp Symbolic topological sorting with OBDDs (extended abstract). (English summary) (*see* **2005b:68020**)
— *see also* **Sauerhoff, Martin, 2005k:68079** *and* **Bollig, Beate, (2005j:68008)**
de Wolf, Ronald Nondeterministic quantum query and communication complexities. (English summary) **2005c:68056**
— *see also* **Kerenidis, Iordanis, 2005e:68042** *and* **Høyer, Peter et al., (2005b:68008)**
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Xu, Jin^2 *see* **Gao, Lin^2 et al.**
Xue, Rui (*with* Feng, Deng Guo) New semantic model for authentication protocols in ASMs. (English summary) **2005h:68027**
Yamakami, Tomoyuki Computational complexity measures of multipartite quantum entanglement (extended abstract). (English summary) (*see* **2005c:68004**)
— Analysis of quantum functions. (English summary) **2005g:81073**
— *see also* **Nishimura, Harumichi, 2005a:81046** *and* **Kobayashi, Hirotada et al., 2005d:68047**
Yamasaki, Tomohiro (*with* Kobayashi, Hirotada; Imai, Hiroshi) An analysis of absorbing times of quantum walks. (English summary) **2005c:81042**
Yamashita, Masafumi *see* **Kobayashi, Takenori et al., 2005c:81040**
Yamashita, Shigeru *see* **Iwama, Kazuo et al., 2005c:81039** *and* **Ambainis, Andris et al., 2005f:81036**
Yang, En-Hui *see* **Kaltchenko, Alexei, 2005d:81088**
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Yao, Andrew Chi-Chih On the power of quantum fingerprinting. (English summary) **2005k:81051**
— Graph entropy and quantum sorting problems. (English summary) **2005k:81052**
— *see also* **Aharonov, Dorit et al., (2005i:68003)**
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Zambelli, Stefano Production of ideas by means of ideas: a Turing machine metaphor. (English summary) **2005b:91155**
Zantema, Hans *see* **Groote, Jan Friso, 2005a:03026**
Zhang, Shengyu On the power of Ambainis lower bounds. (English summary) **2005m:68092**
Ziegler, Martin^2 (*with* Brattka, Vasco) Computability in linear algebra. (English summary) **2005f:03099**
Zimand, Marius ★ Computational complexity: a quantitative perspective. **2005m:68005**
Zizza, Rosalba *see* **Verlan, Sergey, (2005c:68010)**
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Items listed otherwise than by author

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68Q10 Modes of computation (nondeterministic, parallel, interactive, probabilistic, etc.) [see also 68Q85]

Adamy, Udo (*with* Erlebach, Thomas) Online coloring of intervals with bandwidth. (English summary) (*see* **2005c:68005**)
Albers, Susanne On randomized online scheduling. (English summary) (*see* **2005i:68004**)
— (*with* Favrholdt, Lene M.; Giel, Oliver) On paging with locality of reference. (English summary) (*see* **2005i:68004**)
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Awerbuch, Baruch (*with* Azar, Yossi; Meyerson, Adam) Reducing truth-telling online mechanisms to online optimization. (English summary) **2005k:68055**
— *see also* **Alon, Noga et al., 2005k:68054**
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Bent, Russell *see* **Anagnostopoulos, Aris et al., 2005h:68036**
Blum, Avrim (*with* Kumar, Vijay^3; Rudra, Atri; Wu, Felix) Online learning in online auctions. (English summary) **2005e:68054**
Boyar, Joan (*with* Favrholdt, Lene M.; Larsen, Kim S.; Nielsen, Morten N.) Extending the accommodating function. (English summary) (*see* **2005a:68012**)
Brodsky, Alex An impossibility gap between width-4 and width-5 permutation branching programs. **2005k:68056**
Bunde, David P. SPT is optimally competitive for uniprocessor flow. (English summary) **2005a:68070**
Chen, Peter P. (*with* Ding, Guoli) The best expert versus the smartest algorithm. (English summary) **2005e:68055**
Chin, Francis Y. L. (*with* Fung, Stanley P. Y.) Improved competitive algorithms for online scheduling with partial job values. (English summary) **2005d:68039**
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Ďuriš, Pavol (*with* Hromkovič, Juraj; Inoue, Katsushi) On the power of nondeterminism and Las Vegas randomization for two-dimensional finite automata. (English summary) **2005a:68071**
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Fotakis, Dimitris A. On the competitive ratio for online facility location. (English summary) (*see* **2005b:68008**)
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Kontogiannis, Spyros Lower bounds & competitive algorithms for online scheduling of unit-size tasks to related machines. (English summary) (*see* **2005i:68004**)
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— *see also* **Ho, Kevin I.-J., 2005f:68036**
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— (*with* Lu, Xi Wen; de Paepe, Willem E.; Sitters, René A.; Stougie, Leen) On-line dial-a-ride problems under a restricted information model. (English summary) **2005f:68037**
— *see also* **Krumke, Sven Oliver et al., (2005d:68005)**
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Ma, Weimin (*with* Xu, Yinfeng; You, Jane; Liu, James Nga-Kwok; Wang, Kanliang) New results on the k-truck problem. (English summary) (*see* **2005a:68012**)
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— *see also* **Mendel, Manor**, **2005c:68055**; **Fleischer, Rudolf et al.**, **2005e:68056**; **Epstein, Leah et al.**, (**2005a:68008**) *and* **Fiat, Amos et al.**, (**2005c:68002**)
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— *see also* **Lipmann, Maarten et al.**, **2005f:68037** *and* (**2005c:68002**)
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Aaronson, Scott Algorithms for Boolean function query properties. (English summary) **2005b:68116**
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Aslam, Javed A. (*with* Pelekhov, Ekaterina; Rus, Daniela) The star clustering algorithm for static and dynamic information organization. (English summary) **2005h:68114**
Ausiello, G. (*with* Demange, Marc; Laura, Luigi; Paschos, Vangelis Th.) Algorithms for the on-line quota traveling salesman problem. (English summary) **2005c:90071**
Awerbuch, Baruch (*with* Azar, Yossi; Bartal, Yair) On-line generalized Steiner problem. (English summary) **2005d:68102**
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— (*with* Epstein, Amir; Epstein, Leah) Load balancing of temporary tasks in the l_p norm. (English summary) (*see* **2005c:68005**)
— *see also* **Awerbuch, Baruch et al.**, **2005d:68102**
Bach, Eric (*with* Boyar, Joan; Epstein, Leah; Favrholdt, Lene M.; Jiang, Tao[1]; Larsen, Kim S.; Lin, Guo-Hui; van Stee, Rob) Tight bounds on the competitive ratio on accommodating sequences for the seat reservation problem. (English summary) **2005f:68051**
Bagheri, Babak *see* **Scott, Larkin Ridgway et al.**, **2005k:65301**
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Bartal, Yair (*with* Chin, Francis Y. L.; Chrobak, Marek; Fung, Stanley P. Y.; Jawor, Wojciech; Lavi, Ron; Sgall, Jiří; Tichý, Tomáš) Online competitive algorithms for maximizing weighted throughput of unit jobs. (English summary) **2005e:90034**
— *see also* **Awerbuch, Baruch et al.**, **2005d:68102**
Bar-Yossef, Ziv (*with* Jayram, T. S.; Kerenidis, Iordanis) Exponential separation of quantum and classical one-way communication complexity. (English summary) **2005j:68033**
Batty, Michael (*with* Braunstein, Samuel L.; Duncan, Andrew J.; Rees, Sarah) Quantum algorithms in group theory. (English summary) **2005e:81037**
Becchetti, Luca (*with* Leonardi, Stefano; Marchetti-Spaccamela, Alberto; Pruhs, Kirk R.) Semi-clairvoyant scheduling. (English summary) (*see* **2005c:68003**)
Borodin, Allan (*with* Nielsen, Morten N.; Rackoff, Charles) (Incremental) priority algorithms. (English summary) **2005f:90044**
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— *see also* **Bach, Eric et al.**, **2005f:68051**
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Caragiannis, Ioannis (*with* Fishkin, Aleksei V.; Kaklamanis, Christos; Papaioannou, Evi) Online algorithms for disk graphs. (English summary) **2005m:05206**
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— *see also* **Bampis, Evripidis et al.**, (**2005b:68004**)
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— (*with* Lam, Tak-Wah; Ting, Hing-Fung; Wong, Wai-Ha) A unified analysis of hot video schedulers. (English summary) (*see* **2005i:68004**)
Chandra, Tushar (*with* Hadzilacos, Vassos; Jayanti, Prasad; Toueg, Sam) Generalized irreducibility of consensus and the equivalence of t-resilient and wait-free implementations of consensus. (English summary) **2005k:68221**
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Chen, Jing[5] (*with* Cao, Zi-Ning) Model checking real-time value-passing systems. (English summary) **2005e:68147**
Cheremisinova, L. D. Coding the states of an asynchronous parallel automaton. (Russian. Russian summary)
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— *see also* **Bartal, Yair et al.**, **2005e:90034** *and* **Fung, Stanley P. Y. et al.**
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Chrobak, Marek (*with* Epstein, Leah; Noga, John; Sgall, Jiří; van Stee, Rob; Tichý, Tomáš; Vakhaniya, Nodari N.) Preemptive scheduling in overloaded systems. (English summary) (*see* **2005a:68008**)
— *see also* **Bartal, Yair et al.**, **2005e:90034**
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— *see also* **Ausiello, G. et al.**, **2005c:90071**
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Dósa, György (*with* He, Yong[1]) Semi-online algorithms for parallel machine scheduling problems. (English summary) **2005c:90028**
— (*with* He, Yong[1]) Better online algorithms for scheduling with machine cost. (English summary) **2005g:90049**
Du, Donglei Optimal preemptive semi-online scheduling on two uniform processors. (English summary) **2005e:68016**
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— *see also* **Bach, Eric et al.**, **2005f:68051**; **Tan, Zhiyi et al.**, **2005k:90046**; **Chrobak, Marek et al.**, (**2005a:68008**) *and* **Azar, Yossi et al.**, (2005c:68005)
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68Q15 Complexity classes (hierarchies, relations among complexity classes, etc.) [see also 03D15, 68Q17, 68Q19]

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— (*with* Thierauf, Thomas) On the minimal polynomial of a matrix. (English summary) **2005b:68109**
— (*with* Thierauf, Thomas) Erratum: "On the minimal polynomial of a matrix" [Internat. J. Found. Comput. Sci. **15** (2004), no. 1, 89–105; MR2056725 (2005b:68109)].
Thérien, Denis *see* **Gavaldà, Ricard, 2005b:68102** *and* **Tesson, Pascal, 2005k:68070**
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— *see also* **Micciancio, Daniele, 2005e:68068**; **Ben-Sasson, Eli et al., 2005j:68034**; **2005k:68058**; **Healy, Alexander et al., 2005j:68036**; **Sahai, Amit, 2005m:68082** *and* **Goldreich, Oded et al.**, (**2005a:68007**)
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— *see also* **Ben-Sasson, Eli et al., 2005k:68058** *and* **Goldreich, Oded et al.**, (**2005a:68007**)
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— (*with* Deng, Xiao Tie; Lee, Chan Hee; Zhu, Hong[1]) Reduction zero-knowledge. (English summary) **2005a:68081**
— *see also* **Deng, Xiao Tie et al.**, (**2005a:68012**)
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Beckmann, Arnold A note on universal measures for weak implicit computational complexity. (English summary) (*see* **2005c:68007**)
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Cucker, Felipe On sparseness, reducibilities, and complexity. (English summary) **2005m:03079**

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Dal Lago, Ugo On the expressive power of light affine logic. (English summary) **2005b:03141**

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— *see also* **Hemaspaandra, Edith et al.**, **2005m:05152** *and* **2005m:68085**

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— (*with* Schmidt-Samoa, Katja; Takagi, Tsuyoshi) A complete and explicit security reduction algorithm for RSA-based cryptosystems. (English summary) **2005k:94023**

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— (*with* Nikoletseas, Sotiris E.; Papadopoulou, Vicky G.; Spirakis, Paul G.) Radiocolorings in periodic planar graphs: PSPACE-completeness and efficient approximations for the optimal range of frequencies. (English summary) (*see* **2005a:68015**)
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Istrail, Sorin Statistical mechanics, three-dimensionality and NP-completeness. I. Universality of intractability for the partition function of the Ising model across non-planar surfaces (extended abstract). (*see* **2005i:68003**)
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Mäkinen, Veli (*with* Ukkonen, Esko) Local similarity based point-pattern matching. (English summary) (*see* **2005a:68009**)
Makowsky, Johann A. (*with* Mariño, J. P.) The parametrized complexity of knot polynomials. (English summary) **2005e:68099**
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— *see also* **Pitassi, Toniann, 2005c:03108**
Razborov, A. A. Resolution lower bounds for perfect matching principles. (English summary) **2005b:03137**
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— (*with* Sun, Zheng[1]) Movement planning in the presence of flows. (English summary) **2005b:68249**
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— *see also* **Alon, Noga et al., 2005e:68110**
Rybakov, M. N. (*with* Chagrov, A. V.) Constant formulas in modal logics: the decidability problem. (Russian. English summary) **2005a:03042**
— *see also* **Chagrov, A. V., 2005h:03044**
Rychlik, Marcin On probabilistic quantified satisfiability games. (English summary) **2005c:68073**
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Wang, Lu Sheng (*with* Zhao, Hao; Dong, Guozhu; Li, Jian Ping[3]) On the complexity of finding emerging patterns. (English summary) **2005m:68102**
Wang, Rui[3] (*with* Lau, Francis C. M.; Liu, Yan Yan) NP-completeness results for all-shortest-path interval routing. (English summary)
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Yang, Boting (*with* Wang, Cao An; Chin, Francis Y. L.) Algorithms and complexity for tetrahedralization detections. (English summary) (*see* **2005b:68004**)
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Yu, Wenci (*with* Hoogeveen, Johannes Adzer; Lenstra, Jan Karel) Minimizing makespan in a two-machine flow shop with delays and unit-time operations is NP-hard. (English summary) **2005g:90065**
Zhang, Yu Zhong[1] (*with* Wang, Lin) NP-completeness of a new batch scheduling problem. (Chinese. English and Chinese summaries) **2005k:90051**
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Zhao, Qianchuan *see* **Yang, Ke, 2005f:93117**
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Items listed otherwise than by author

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Items with secondary classifications in 68Q19

Addison, J. W. Tarski's theory of definability: common themes in descriptive set theory, recursive function theory, classical pure logic, and finite-universe logic. (English summary) **2005b:03076**
Barrington, David A. Mix (*with* Immerman, Neil; Lautemann, Clemens; Schweikardt, Nicole; Thérien, Denis) First-order expressibility of languages with neutral letters or: The Crane Beach conjecture. (English summary) **2005m:03055**
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Grohe, Martin (*with* Wöhrle, Stefan) An existential locality theorem. (English summary) **2005j:03027**
— *see also* **Flum, Jörg, 2005f:68042**
Hella, Lauri (*with* Libkin, Leonid; Nurmonen, Juha; Wong, Limsoon) Logics with aggregate operators. (English summary) **2005m:68057**
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Keisler, H. Jerome (*with* Lotfallah, Wafik Boulos) First order quantifiers in monadic second order logic. (English summary) **2005d:03058**
Kim, Jeong Han (*with* Pikhurko, Oleg; Spencer, Joel H.; Verbitskiĭ, O. V.) How complex are random graphs in first order logic? (English summary) **2005k:05218**
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Lassaigne, Richard (*with* de Rougemont, Michel) ★ Logic and complexity. **2005k:68001**
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Wang, Rui Min (*with* Chen, Zhuo) A full-angle algorithm for solving the triangle packing problem. (Chinese. English and Chinese summaries)
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Aardal, Karen Lattice basis reduction in optimization: selected topics. (English summary) **2005g:90084**

Abdeljaoued, Jounaïdi (*with* Lombardi, Henri) ★ Méthodes matricielles: introduction à la complexité algébrique. (French) [Matrix methods: introduction to algebraic complexity] **2005c:68001**

Achlioptas, Dimitris (*with* Beame, Paul; Molloy, Michael S. O.) A sharp threshold in proof complexity. (English summary) (*see* **2005j:68008**)

— (*with* Peres, Yuval) The threshold for random k-SAT is $2^k \log 2 - O(k)$. **2005g:68137**

— (*with* Beame, Paul; Molloy, Michael S. O.) A sharp threshold in proof complexity yields lower bounds for satisfiability search. (English summary) **2005f:03093**

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Adsul, Bharat (*with* Sohoni, Milind) Complete and tractable local linear time temporal logics over traces. (English summary) (*see* **2005a:68008**)

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Aigner, Martin Variants of the majority problem. (English summary) **2005b:05003**

— The k-equal problem. (English summary) **2005m:05004**

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— (*with* Jayram, T. S.; Kumar, S. Ravi; Sivakumar, Dandapani) Approximate counting of inversions in a data stream. (English summary) (*see* **2005i:68004**)

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Alber, Jochen (*with* Fernau, Henning; Niedermeier, Rolf) Parameterized complexity: exponential speed-up for planar graph problems. (English summary) **2005f:68038**

— (*with* Fiala, Jiří) Geometric separation and exact solutions for the parameterized independent set problem on disk graphs. (English summary) **2005b:68207**

Albers, Susanne (*with* Büttner, Markus) Integrated prefetching and caching in single and parallel disk systems. (English summary) **2005k:68230**

Alekhina, M. A. On the complexity of reliable circuits consisting of unreliable elements with single-type constant faults. (Russian. Russian summary) **2005f:94181**

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de Alfaro, Luca (*with* Faella, Marco) Information flow in concurrent games. (English summary) **2005c:68194**

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Allen, David Leonard (*with* Darwiche, Adnan) Optimal time-space tradeoff in probabilistic inference. (English summary)

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Althaus, Ernst (*with* Duchier, Denys; Koller, Alexander; Mehlhorn, Kurt; Niehren, Joachim; Thiel, Sven) An efficient graph algorithm for dominance constraints. (English summary) **2005g:68127**

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Anderson, Edward J. (*with* Potts, Chris N.) Online scheduling of a single machine to minimize total weighted completion time. (English summary) **2005d:90043**

Angel, Eric (*with* Bampis, Evripidis; Gourvès, Laurent) Approximating the Pareto curve with local search for the bicriteria TSP(1, 2) problem. (English summary) (*see* **2005b:68015**)

Angelopoulos, Spyros (*with* Borodin, Allan) On the power of priority algorithms for facility location and set cover. (English summary) (*see* **2005d:68005**)

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Arias, Marta (*with* Khardon, Roni) Complexity parameters for first-order classes. (English summary) (*see* **2005b:68016**)

Arkin, Esther M. (*with* Bender, Michael A.; Demaine, Erik D.; Demaine, Martin L.; Mitchell, Joseph S. B.; Sethia, Saurabh; Skiena, Steven S.) When can you fold a map? (English summary) **2005c:52009**

— *see also* **Sztainberg, Marcelo O. et al., (2005a:68002)**

Armstrong, Derek E. (*with* Jacobson, Sheldon H.) Polynomial transformations and data-independent neighborhood functions. (English summary) **2005e:90070**

Arvind, V. (*with* Raman, Venkatesh) Approximation algorithms for some parameterized counting problems. (English summary) (*see* **2005b:68004**)

— (*with* Kurur, Piyush P.) Upper bounds on the complexity of some Galois theory problems (extended abstract). (English summary) (*see* **2005c:68004**)

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Ashikhmin, Alexei (*with* Litsyn, Simon) Simple MAP decoding of first-order Reed-Muller and Hamming codes. (English summary) **2005f:94166**

Atserias, Albert (*with* Bonet, María Luisa) On the automatizability of resolution and related propositional proof systems. (English summary) **2005a:03024**

Averbakh, Igor (*with* Bereg, Sergei) Facility location problems with uncertainty on the plane. (English summary) **2005m:90056**

Avidor, Adi (*with* Zwick, Uri) Approximating MIN k-SAT. (English summary) (*see* **2005b:68004**)

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Bachmat, E. Average case analysis for batched disk scheduling and increasing subsequences. (English summary) (*see* **2005i:68004**)

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Baldacci, Roberto (*with* Boschetti, Marco A.; Maniezzo, Vittorio; Zamboni, Marco) Scatter search methods for the covering tour problem. (English summary) (*see* **2005h:90007**)

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Banderier, Cyril (*with* Beier, René; Mehlhorn, Kurt) Smoothed analysis of three combinatorial problems. (English summary) **2005c:68302**

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Barbay, Jérémy (*with* Kenyon, Claire) Deterministic algorithm for the t-threshold set problem. (English summary) **2005d:68028**

Bartal, Yair (*with* Linial, Nathan; Mendel, Manor; Naor, Assaf) On metric Ramsey-type phenomena. (English summary) **2005j:52021**

Baswana, Surender (*with* Hariharan, Ramesh; Sen, Sandeep) Improved decremental algorithms for maintaining transitive closure and all-pairs shortest paths. (English summary) (*see* **2005i:68004**)

Batu, Tuğkan (*with* Dasgupta, Sanjoy; Kumar, S. Ravi; Rubinfeld, Ronitt) The complexity of approximating entropy. (English summary) (*see* **2005i:68004**)

— (*with* Ergün, Funda; Kilian, Joe; Magen, Avner; Raskhodnikova, Sofya; Rubinfeld, Ronitt; Sami, Rahul) A sublinear algorithm for weakly approximating edit distance. (English summary) **2005k:68231**

Bazgan, Cristina (*with* Tuza, Zsolt; Vanderpooten, Daniel) On the existence and determination of satisfactory partitions in a graph. (English summary) **2005d:68103**

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— (*with* Vöcking, Berthold) Random knapsack in expected polynomial time. (English summary) **2005f:68175**

— *see also* **Banderier, Cyril et al., 2005c:68302**

Béjar, Ramón (*with* Domshlak, Carmel; Fernández, Cèsar; Gomes, Carla P.; Krishnamachari, Bhaskar; Selman, Bart; Valls, Magda) Sensor networks and distributed CSP: communication, computation and complexity. (English summary)

Belleville, Patrice *see* **Keil, J. Mark, 2005b:05166**

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Berwanger, Dietmar (*with* Blumensath, Achim) Automata for guarded fixed point logics. (*see* **2005b:68009**)

— (*with* Grädel, Erich) Fixed-point logics and solitaire games. (English summary) **2005h:03062**

Bessen, Arvid J. The power of various real-valued quantum queries. (English summary) **2005e:81038**

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Bienstock, Daniel (*with* Iyengar, Garud) Solving fractional packing problems in $O^*(1/\varepsilon)$ iterations. (English summary) (*see* **2005i:68005**)

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— Functions on groups and computational complexity. (English summary) **2005h:20077**

— *see also* **Sapir, Mark V. et al., 2005b:20077a**

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Blake, Ian F. (*with* Garefalakis, Theodoulos) On the complexity of the discrete logarithm and Diffie-Hellman problems. (English summary) **2005e:94111**

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enforces termination. (English summary) **2005m:94025**

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Bley, Andreas On the complexity of vertex-disjoint length-restricted path problems. (English summary) **2005f:05084**

Blumensath, Achim *see* **Berwanger, Dietmar**, (**2005b:68009**)

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— (*with* Bongartz, Dirk) Protein folding in the HP model on grid lattices with diagonals (extended abstract). (English summary) (*see* **2005m:68011**)

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Borgs, Christian (*with* Chayes, Jennifer T.; Mertens, Stephan; Pittel, Boris) Constrained integer partitions. (English summary) (*see* **2005d:68010**)

— (*with* Chayes, Jennifer T.; Mertens, Stephan; Pittel, Boris) Phase diagram for the constrained integer partitioning problem. (English summary) **2005c:82030**

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— *see also* **Angelopoulos, Spyros**, (**2005d:68005**)

Boros, Endre (*with* Elbassioni, Khaled M.; Gurvich, Vladimir; Khachiyan, Leonid; Makino, Kazuhisa) On generating all minimal integer solutions for a monotone system of linear inequalities. (English summary) (*see* **2005a:68007**)

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— (*with* Elbassioni, Khaled M.; Gurvich, Vladimir; Khachiyan, Leonid) Generating maximal independent sets for hypergraphs with bounded edge-intersections. (English summary) **2005f:05119**

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Brandenburg, Franz-Josef Cycles in generalized networks. (English summary) (*see* **2005a:68015**)

— Erratum: "Cycles in generalized networks" [in *Graph-theoretic concepts in computer science*, 47–56, Lecture Notes in Comput. Sci., 2573, Springer, Berlin, 2002; MR2062357]. (English summary) (*see* **2005b:05002**)

Brandstädt, Andreas (*with* Dragan, Feodor F.; Le, Hoàng-Oanh; Mosca, Raffaele) New graph classes of bounded clique-width. (English summary) (*see* **2005a:68015**)

— (*with* Dragan, Feodor F.; Le, Hoàng-Oanh; Le, Van Bang; Uehara, Ryuhei) Tree spanners for bipartite graphs and probe interval graphs. (English summary) (*see* **2005b:05002**)

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— (*with* Fomin, Fedor V.; Nešetřil, Jaroslav; Woeginger, Gerhard J.) More about subcolorings. (English summary) (*see* **2005a:68015**)

Brönnimann, Hervé (*with* Iacono, John; Katajainen, Jyrki; Morin, Pat; Morrison, Jason; Toussaint, Godfried) Space-efficient planar convex hull algorithms. **2005g:68168**

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— (*with* Knust, Sigrid; Wang, Guoqing[1]) Complexity results for flow-shop problems with a single server. (English summary) **2005i:90086**

— *see also* **Baptiste, Philippe et al.**, **2005d:90044**

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— *see also* **Clautiaux, François et al.**, **2005e:68184**

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Chazelle, Bernard (*with* Rubinfeld, Ronitt; Trevisan, Luca) Approximating the minimum spanning tree weight in sublinear time. (English summary) (*see* **2005a:68007**)

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Chen, Zhi Bin (*with* Li, Jian Ping[3]) Optimal structure of information dissemination. (Chinese. English and Chinese summaries)

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— *see also* **Chen, Jian-Er et al.**, **2005b:68211**; **2005e:68273**; **2005g:68178**; **2005j:68040** *and* **2005m:68251**
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— *see also* **Alon, Noga et al.**, **2005g:68192**
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— (*with* Marathe, Madhav V.; Poensgen, Diana; Ravi, S. S.; Wirth, Hans-Christoph) Budgeted maximum graph coverage. (English summary) (*see* **2005a:68015**)

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— (*with* Wahlen, Martin) Subexponential-time algorithms for maximum independent set and related problems on box graphs. (English summary) (*see* **2005a:05002**)

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Mahajan, Meena (*with* Varadarajan, Kasturi R.) A new NC-algorithm for finding a perfect matching in bipartite planar and small genus graphs (extended abstract). (*see* **2005i:68003**)
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Subramani, K. An analysis of quantified linear programs. (English summary) **2005a:90096**
— Cascading random walks. (English summary) **2005m:68246**
Subramanian, C. R. *see* **Raman, Venkatesh et al.**, (2005b:68004)
Subramanya, P. R. *see* **Mahajan, Meena et al.**, **2005i:05148**
Sudborough, I. H. *see* **Miller, Zevi et al.**, **2005m:05059**
Sun, Julie *see* **Biedl, Therese et al.**, **2005m:52019**
Sun, Xiao Dong[1] *see* **Saks, Michael**, (2005i:68004)
Sung, Shao Chin *see* **Mihara, Takashi**, **2005e:68069**
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Suzuki, Yasuhiro *see* **Păun, Gheorghe et al.**, **2005g:68070**
Suzuki, Yusuke[2] (*with* Shoudai, Takayoshi; Matsumoto, Satoshi; Uchida, Tomoyuki; Miyahara, Tetsuhiro) Efficient learning of ordered and unordered tree patterns with contractible variables. (English summary) (*see* **2005a:68004**)
— *see also* **Matsumoto, Satoshi et al.**, (2005a:68004)
Sviridenko, M. I. *see* **Kesselman, Alexander et al.**, **2005d:90050**
Swamy, M. N. S. *see* **Bouguezel, Saad et al.**, **2005h:65267**
Szałas, Andrzej On a logical approach to estimating computational complexity of potentially intractable problems. (English summary) **2005b:68115**
Szegedy, Mario (*with* Chen, Xiaomin) Computing Boolean functions from multiple faulty copies of input bits. (English summary) **2005g:68043**
— *see also* **Santha, Miklos**, **2005j:68031**
Szeider, Stefan Generalizations of matched CNF formulas. (English summary) **2005k:68080**
Sztainberg, Marcelo O. (*with* Arkin, Esther M.; Bender, Michael A.; Mitchell, Joseph S. B.) Analysis of heuristics for the freeze-tag problem. (English summary) (*see* **2005a:68002**)
Szwarcfiter, Jayme L. *see* **Costa Dourado, Mitre et al.**, **2005g:05105** *and* **Dias, Vânia M. F. et al.**, **2005m:68162**
Takeda, Masayuki *see* **Baba, Kensuke et al.**, **2005c:68230**
Takei, Yoshinori *see* **Itoh, Toshiya et al.**, **2005k:68157**
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Tamir, Tami *see* **Shachnai, Hadas**, **2005b:68098** *and* **2005e:68266**
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Tang, Kwei *see* **Chen, Yen-Liang**, **2005g:90047**
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Tarui, Jun *see* **Itoh, Toshiya et al.**, **2005k:68157**
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Tesson, Pascal (*with* Thérien, Denis) Complete classifications for the communication complexity of regular languages. (English summary) **2005c:68157**
— (*with* Thérien, Denis) Complete classifications for the communication complexity of regular languages. (English summary) **2005k:68070**
Thakur, Mayur *see* **Hemaspaandra, Edith et al.**, (2005d:68010)
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Thilikos, Dimitris M. *see* **Díaz, Josep et al.**, **2005b:05086**; **2005i:05062**; **Demaine, Erik D. et al.**, **2005e:68185**; **2005m:05207**; (**2005b:68004**) *and* **Fomin, Fedor V.**, **2005e:68188**
Tholey, Torsten Solving the 2-disjoint paths problem in nearly linear time. (English summary) **2005e:05140**
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Tokuyama, Takeshi *see* **Asano, Tetsuo et al.**, **2005h:05142**
Tompits, Hans *see* **Eiter, Thomas et al.**, **2005c:68026**
Tompkins, Dave A. D. (*with* Hoos, Holger H.) Scaling and probabilistic smoothing: dynamic local search for unweighted MAX-SAT. (English summary) (*see* **2005f:68004**)
Toussaint, Godfried *see* **Brönnimann, Hervé et al.**, **2005g:68168**
Trevisan, Luca *see* **Chazelle, Bernard et al.**, (2005a:68007)
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Tuza, Zsolt *see* **Bazgan, Cristina et al.**, **2005d:68103** *and* **Kratochvíl, Jan et al.**, (2005a:68015)
Uchida, Tomoyuki *see* **Suzuki, Yusuke[2] et al.**, (2005a:68004) *and* **Matsumoto, Satoshi et al.**, (2005a:68004)
Ueberhuber, C. W. *see* **Gansterer, Wilfried N. et al.**, **2005c:65030**
Uehara, Ryuhei (*with* Toda, Seinosuke; Nagoya, Takayuki) Graph isomorphism completeness for chordal bipartite graphs and strongly chordal graphs. (English summary) **2005h:05137**
— *see also* **Brandstädt, Andreas et al.**, (2005b:05002)
Ukkonen, Esko *see* **Mäkinen, Veli**, (2005a:68009)
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Vaccaro, Ugo *see* **Cicalese, Ferdinando et al.**, **2005g:68023**
Vadhan, Salil P. On constructing locally computable extractors and cryptosystems in the bounded storage model. (English summary) **2005e:94210**
— *see also* **Micciancio, Daniele**, **2005e:68068** *and* **Lu, Chi-Jen et al.**, **2005k:68227**
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Varadarajan, Kasturi R. *see* **Har-Peled, Sariel**, 2005b:68265 *and* **Mahajan, Meena**, (2005i:68003)
Vazirani, Umesh V. *see* **Aharonov, Dorit et al.**, (2005j:68008)
Vempala, Santosh S. ★ The random projection method. **2005j:68002**
Vercauteren, Frederik Computing zeta functions of hyperelliptic curves over finite fields of characteristic 2. (English summary) **2005d:11092**
Vernitski, Alexei Finite quasivarieties and self-referential conditions. (English summary) **2005j:08005**
Vietri, Andrea The complexity of arc-colorings for directed hypergraphs. (English summary) **2005e:05059**
Vigoda, Eric *see* **Dyer, Martin et al.**, 2005f:05055
Vikalo, Haris *see* **Hassibi, Babak**, 2005a:94017
Vikas, Narayan Connected and loosely connected list homomorphisms. (English summary) (*see* **2005a:68015**)
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Voigt, Margit *see* **Kratochvíl, Jan et al.**, (2005a:68015)
Volkov, Mikhail V. Checking quasi-identities in a finite semigroup may be computationally hard. (English summary) **2005h:20132**
Vorob'ev, Nikolaĭ, Jr. *see* **Pericleous, Savvas**, 2005d:14086
Vorob'ev, S. G. The most nonelementary theory. (English summary) **2005b:03099**
— *see also* **Björklund, Henrik et al.**, 2005c:68286
Vredeveld, Tjark *see* **Krumke, Sven Oliver et al.**, (2005c:68005)
Vyalyĭ, M. N. Approximate computation of the weight function of a linear binary code. (Russian. Russian summary) **2005m:81071**
Wagler, Annegret K. *see* **Hougardy, Stefan**, 2005j:05035
Wagner, Klaus W. *see* **Hemaspaandra, Lane A. et al.**, (2005a:68007)
Wagner, Uli *see* **Ambühl, Christoph**, (2005b:68004)
Wah, Benjamin W. (*with* Wu, Zhe) Penalty formulations and trap-avoidance strategies for solving hard satisfiability problems. (English summary) **2005k:68184**
Wahlen, Martin *see* **Lingas, Andrzej**, 2005h:05194 *and* (2005a:05002)
Walther, Andrea Bounding the number of processors and checkpoints needed in time-minimal parallel reversal schedules. (English summary) **2005g:68188**
Wan, Yung-Chun *see* **Khuller, Samir et al.**, 2005b:68288
Wang, Biing-Feng (*with* Lin, Jyh-Jye; Ku, Shan-Chyun) Efficient algorithms for the scaled indexing problem. (English summary) **2005a:68239**
Wang, Guoqing[1] *see* **Brucker, Peter et al.**, 2005i:90086
Wang, Hai Ming *see* **Shuai, Tian Ping**, 2005m:90100
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Wang, Lu Sheng *see* **Li, Ming**[1] **et al.**, 2005m:68256
Wang, Xiaoqun[1] *see* **Dick, Josef et al.**, 2005h:65008
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Werschulz, Arthur G. (*with* Woźniakowski, Henryk) Surface approximation is sometimes easier than surface integration. (English summary) **2005c:65014**
Weyer, Mark Decidability of S1S and S2S. (*see* **2005b:68009**)
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Woods, Alan R. Subset sum "cubes" and the complexity of primality testing. (English summary) **2005g:68044**
Wormald, Nicholas C. Analysis of greedy algorithms on graphs with bounded degrees. (English summary) **2005d:68159**
Woźniakowski, Henryk *see* **Werschulz, Arthur G.**, 2005c:65014 *and* **Dick, Josef et al.**, 2005h:65008
Wu, Bang Ye (*with* Huang, Zheng-Nan; Zhan, Fu-Jie) Exact algorithms for the minimum latency problem.
Wu, S. David (*with* Golbasi, Hakan) Multi-item, multi-facility supply chain planning: models, complexities, and algorithms. (English summary) **2005h:90012**
Wu, Zhe *see* **Wah, Benjamin W.**, 2005k:68184
Xia, Ge *see* **Chen, Jian-Er et al.**, 2005j:68040 *and* 2005m:68251
Xing, Zhao (*with* Zhang, Weixiong) MaxSolver: an efficient exact algorithm for (weighted) maximum satisfiability. (English summary) **2005k:90075**
Xu, Dao Yun Homomorphism proof systems for unsatisfiable formulas. (Chinese. English and Chinese summaries) **2005k:03032**
Xu, Jun[3] *see* **Chen, Guantao et al.**, 2005e:05075
Xu, Yinfeng *see* **Ma, Weimin et al.**, 2005a:90073
Yamaguchi, Atsuko (*with* Aoki, Kiyoko F.; Mamitsuka, Hiroshi) Finding the maximum common subgraph of a partial k-tree and a graph with a polynomially bounded number of spanning trees. (English summary) **2005e:05142**
Yan, Song-yuan ★ Number theory for computing. **2005a:11197**
Yang, I-Hsuan (*with* Huang, Chien-Pin; Chao, Kun-Mao) A fast algorithm for computing a longest common increasing subsequence. (English summary) **2005i:68098**
Yang, Jaehwan The complexity of customer order scheduling problems on parallel machines. (English summary) **2005i:90026**
Yannakakis, Mihalis *see* **Alur, Rajeev et al.**, 2005i:68048 *and* (2005a:68007)
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Ye, Yinyu *see* **Ageev, A. A. et al.**, 2005h:68178 *and* **Rojas, J. Maurice**, 2005m:12001
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Young, Neal E. *see* **Karger, David R. et al.**, 2005d:68153
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Yuan, Jin Jiang *see* **Cheng, T. C. Edwin et al.**, 2005k:90034
Yugandhar, V. (*with* Saxena, Sanjeev) Parallel algorithms for separable permutations. (English summary) **2005h:68174**
Zamboni, Marco *see* **Baldacci, Roberto et al.**, (2005h:90007)
Zanuttini, Bruno New polynomial classes for logic-based abduction. (English summary) **2005h:68141**
Zelikovsky, Alexander *see* **Karpinski, Marek et al.**, (2005b:68005)
Zeugmann, Thomas *see* **Case, John et al.**, (2005a:68004)
Zhan, Fu-Jie *see* **Wu, Bang Ye et al.**
Zhang, Huaming (*with* He, Xin[1]) A simple linear time algorithm for finding even triangulations of 2-connected bipartite plane graphs. (English summary) (*see* **2005c:68002**)
Zhang, Jiawei *see* **Ageev, A. A. et al.**, 2005h:68178
Zhang, Lian Sheng *see* **Chen, Feng**[3], 2005j:90004
Zhang, Tong Quan (*with* Wang, Ze Lei; Li, Jian Ping[3]) Tree partition problems with some fixed vertices. (Chinese. English and Chinese summaries)
Zhang, Weixiong *see* **Sen, Anup K. et al.**, 2005a:68179 *and* **Xing, Zhao**, 2005k:90075
Zhang, Yuanlin (*with* Yap, Roland H. C.) P. van Beek and R. Dechter's theorem on constraint looseness and local consistency. Erratum: "Constraint tightness and looseness versus local and global consistency" [J. ACM **44** (1997), no. 4, 549–566; MR1481314 (98h:68215)].
Zhao, Yinglei *see* **Condon, Anne et al.**, 2005a:92016
Zhao, Yunlei (*with* Deng, Xiao Tie; Lee, Chan Hee; Zhu, Hong[1]) $(2+f(n))$-SAT and its properties. (English summary) **2005a:68082**
Zhu, Hong[1] *see* **Zhao, Yunlei et al.**, 2005a:68082 *and* **Qu, Huiqin et al.**
Zieliński, Paweł On computing the latest starting times and floats of activities in a network with imprecise durations. (English summary) **2005h:90018**
Zilberstein, Shlomo *see* **Goldman, Claudia V.**, 2005j:93007
Zilles, Sandra Intrinsic complexity of uniform learning. (English summary) 2005b:68159
Zolotykh, N. Yu. On the complexity of the solution of a class of integer linear programming problems. (Russian. Russian summary) **2005e:90077**
Zverovich, Igor Edmundovich Stabex method for extension of α-polynomial hereditary classes. (English summary) **2005a:05205**
Zwick, Uri All pairs shortest paths using bridging sets and rectangular matrix multiplication. (English summary) **2005m:05217**
— *see also* **Avidor, Adi**, (2005b:68004)

Items listed otherwise than by author

Handbook:
Scheduling ★ Handbook of scheduling. **2005d:90001**
Lecture Notes in Computer Science *see* **Dietzfelbinger, Martin**, 2005m:11235
Theory and applications of satisfiability testing ★ Theory and applications of satisfiability testing.

68Q30 Algorithmic information theory (Kolmogorov complexity, etc.)

Antunes, Luís (*with* Fortnow, Lance) Sophistication revisited. (English summary) **2005c:68114**
Bagnoli, Franco (*with* Bignone, Franco A.; Cecconi, Fabio; Politi, Antonio) Information complexity and biology. (English summary) **2005e:68106**
Bignone, Franco A. *see* **Bagnoli, Franco et al.**, 2005e:68106
Burgin, Mark Algorithmic complexity of recursive and inductive algorithms. (English summary) **2005k:68098**
Calude, Cristian S. (*with* Marcus, Solomon; Staiger, Ludwig) A topological characterization of random sequences. (English summary) **2005b:68146**
Cecconi, Fabio *see* **Bagnoli, Franco et al.**, 2005e:68106
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Ding, De Cheng *see* **Yu, Liang**[1] **et al.**, 2005e:68109
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— *see also* **Yu, Liang**[1] **et al.**, 2005e:68109
Durand, Bruno (*with* Vereshchagin, Nikolai K.) Kolmogorov-Loveland stochasticity for finite strings. (English summary) **2005c:68116**

Fortnow, Lance Kolmogorov complexity and computational complexity. **2005m:68103**
— *see also* **Antunes, Luís**, **2005c:68114**
Griffiths, Evan J. *see* **Downey, Rodney G. et al., 2005e:68107**
Hitchcock, John M. (*with* López-Valdés, María; Mayordomo Cámara, Elvira) Scaled dimension and the Kolmogorov complexity of Turing-hard sets. (English summary) **2005m:68104**
Lee, Troy (*with* Romashchenko, Andrei) On polynomially time bounded symmetry of information. (English summary) **2005m:68105**
López-Valdés, María *see* **Hitchcock, John M. et al., 2005m:68104**
Lutz, Jack H. The dimensions of individual strings and sequences. (English summary) **2005k:68099**
Marcus, Solomon *see* **Calude, Cristian S. et al., 2005b:68146**
Mayordomo Cámara, Elvira *see* **Hitchcock, John M. et al., 2005m:68104**
Merkle, Wolfgang The Kolmogorov-Loveland stochastic sequences are not closed under selecting subsequences. (English summary) **2005c:68117**
Miller, Joseph S. Every 2-random real is Kolmogorov random. (English summary) **2005e:68108**
Muchnik, An. A. (*with* Semenov, Aleksei L'vovich) On the role of large numbers in the theory of randomness. (Russian. Russian summary) **2005h:68053**
— *see also* **Semenov, Aleksei L'vovich**, **2005d:68066**
Parisi, Giorgio Complexity and intelligence. (English summary) **2005b:68147**
Poland, Jan A coding theorem for enumerable output machines. (English summary) **2005b:68148**
Politi, Antonio *see* **Bagnoli, Franco et al., 2005e:68106**
Reid, Stephanie *see* **Downey, Rodney G. et al., 2005e:68107**
Romashchenko, Andrei *see* **Lee, Troy**, **2005m:68105**
Semenov, Aleksei L'vovich (*with* Muchnik, An. A.) On the sharpening of Kolmogorov bounds relating to random number generators and to the complexity definition of randomness. (Russian) **2005d:68066**
— *see also* **Muchnik, An. A., 2005h:68053**
Serdobolskii, V. I. Constructive foundations of randomness. (English summary) **2005k:68100**
Staiger, Ludwig Constructive dimension equals Kolmogorov complexity. (English summary) **2005k:68101**
— *see also* **Calude, Cristian S. et al., 2005b:68146**
Terwijn, S. A. Complexity and randomness. (English summary) **2005k:68102**
Ushakov, M. A. On the Kolmogorov complexity of the initial segments of periodic sequences. (Russian. Russian summary) **2005k:68103**
Vereshchagin, Nikolai K. *see* **Durand, Bruno**, **2005c:68116**
Vitányi, Paul M. B. Meaningful information. (English summary) (*see* **2005b:68004**)
Vyugin, Mikhail V. Systems of strings with large mutual complexity. (Russian. Russian summary) **2005f:68062**
Yu, Liang[1] (*with* Ding, De Cheng; Downey, Rodney G.) The Kolmogorov complexity of random reals. (English summary) **2005e:68109**

Items with secondary classifications in 68Q30

Allender, Eric (*with* Buhrman, Harry; Koucký, Michal) What can be efficiently reduced to the K-random strings? (English summary) **2005e:68057**
Athreya, Krishna B. (*with* Hitchcock, John M.; Lutz, Jack H.; Mayordomo Cámara, Elvira) Effective strong dimension in algorithmic information and computational complexity. (English summary) **2005f:68039**
Baronchelli, Andrea (*with* Caglioti, Emanuele; Loreto, Vittorio) Artificial sequences and complexity measures. (English summary) **2005m:68061**
Bar-Yam, Yaneer Multiscale complexity/entropy. (English summary)
Bilu, Yonatan (*with* Hoory, Shlomo) On codes from hypergraphs. (English summary) **2005d:94200**
Bonanno, Claudio (*with* Galatolo, Stefano; Isola, Stefano) Recurrence and algorithmic information. (English summary) **2005d:37025**
Brito, Carlos (*with* Gafni, Eli; Vaya, Shailesh) An information theoretic lower bound for broadcasting in radio networks. (English summary) **2005e:68005**
Buhrman, Harry *see* **Allender, Eric et al., 2005e:68057**
Caglioti, Emanuele *see* **Baronchelli, Andrea et al., 2005m:68061**
Carette, Jacques Understanding expression simplification. (English summary) **2005j:68133**
Chaitin, Gregory Leibniz, randomness & the halting probability.
Charikar, Moses S. (*with* Lehman, Eric; Liu, Ding[1]; Panigrahy, Rina; Prabhakaran, Manoj; Rasala, April; Sahai, Amit; Shelat, Abhi) Approximating the smallest grammar: Kolmogorov complexity in natural models. (English summary) (*see* **2005i:68004**)
Chen, Xin (*with* Francia, Brent; Li, Ming[1]; McKinnon, Brian; Seker, Amit) Shared information and program plagiarism detection. (English summary) **2005f:94037**
— *see also* **Li, Ming[1] et al., 2005f:68028**
Chernov, Alexey V. *see* **Vereshchagin, Nikolai K. et al., 2005e:03015**
Dai, Jack Jie A computable version of the random signs problem and Kolmogorov complexity. (English summary) **2005d:60012**
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Downey, Rodney G. (*with* Hirschfeldt, Denis R.; Nies, Andre O.; Stephan, Frank) Trivial reals. **2005a:03089**
— (*with* Griffiths, Evan J.) Schnorr randomness. (English summary) **2005b:03106**
— (*with* Griffiths, Evan J.; Laforte, Geoffrey) On Schnorr and computable randomness, martingales, and machines. (English summary) **2005h:03085**
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Falcioni, Massimo (*with* Loreto, Vittorio; Vulpiani, Angelo) Kolmogorov's legacy about entropy, chaos, and complexity. (English summary) **2005b:82003**
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Li, Ming[1] (*with* Tromp, John; Vitányi, Paul M. B.) Sharpening Occam's razor (extended abstract). (English summary) (*see* **2005a:68012**)
— (*with* Chen, Xin; Li, Xin; Ma, Bin; Vitányi, Paul M. B.) The similarity metric. (English summary) **2005f:68028**
— *see also* **Chen, Xin et al., 2005f:94037**
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Merkle, Wolfgang The Kolmogorov-Loveland stochastic sequences are not closed under selecting subsequences. (English summary) (*see* **2005a:68008**)
— (*with* Mihailović, Nenad) On the construction of effective random sets. (English summary) (*see* **2005b:68019**)
— *see also* **Ebert, Todd et al., 2005f:03058**
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— *see also* **Ambainis, Andris et al., 2005b:68149**

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Hellerstein, Lisa (*with* Raghavan, Vijay K.) Exact learning of DNF formulas using DNF hypotheses. (English summary) (*see* **2005i:68004**)

— (*with* Raghavan, Vijay K.) Exact learning of DNF formulas using DNF hypotheses. (English summary) **2005m:68107**

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de la Higuera, Colin (*with* Oncina, Jose) Identification with probability one of stochastic deterministic linear languages. (English summary) (*see* **2005a:68004**)

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— (*with* Kinber, Efim) Intrinsic complexity of learning geometrical concepts from positive data. (English summary) **2005a:68105**

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— *see also* **Ambainis, Andris et al., 2005b:68149**; **Case, John et al., 2005g:68058** *and* (**2005a:68004**)

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— *see also* **Jackson, Jeffrey C. et al., (2005i:68004)**

Köbler, Johannes (*with* Lindner, Wolfgang) A general dimension for approximately learning Boolean functions. (English summary) (*see* **2005a:68003**)

— (*with* Lindner, Wolfgang) The complexity of learning concept classes with polynomial general dimension. (English summary) (*see* **2005a:68003**)

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— *see also* **Mossel, Elchanan et al., 2005e:68113**; **2005j:68065** *and* **Klivans, Adam R. et al., 2005g:68060**

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— (*with* La Torre, Salvatore; Pappas, George J.) Optimal paths in weighted timed automata. (English summary) **2005a:68129**
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— (*with* Li, Cheng; Dang, Zhe) Linear reachability problems and minimal solutions to linear Diophantine equation systems. (English summary) **2005h:68051**
Xu, Ying[3] (*with* Wang, Lu Sheng; Zhao, Hao; Li, Jian Ping[3]) Exact matching of RNA secondary structure patterns. (English summary) **2005m:92029**
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Yang, Shan Lin (*with* Zhu, Shi Xin; Tong, Hong Xi) Two recursive algorithms for computing the depth of a codeword on the finite ring Z_4. (Chinese. English and Chinese summaries)
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Zakrevskiĭ, A. D. Optimization problems in a linear Boolean space. (Russian. English and Russian summaries)
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— (*with* Fokkink, Willem Jan; van Glabbeek, Rob J.; Ingólfsdóttir, Anna) Nested semantics over finite trees are equationally hard. (English summary) **2005b:68198**
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Zamulin, A. V. An abstract model of a compiler as a result of the algebraic semantics of a programming language. (Russian)

Items with secondary classifications in 68Q65

Abramsky, Samson (*with* Jagadeesan, Radha) A game semantics for generic polymorphism. (English summary) (*see* **2005b:68014**)
Adámek, Jiří (*with* Milius, Stefan; Velebil, Jiří) On coalgebra based on classes. (English summary) **2005h:18002**
van Bakel, Steffen (*with* de'Liguoro, Ugo) Logical semantics for the first order ζ-calculus. (English summary) (*see* **2005b:68027**)
Bartels, Falk (*with* Sokolova, Ana; de Vink, E. P.) A hierarchy of probabilistic system types. (English summary) **2005f:68102**
Basin, David (*with* Clavel, Manuel; Meseguer, José) Reflective metalogical frameworks. (English summary) **2005d:03052**
Bloom, Stephen L. (*with* Ésik, Zoltán) An extension theorem with an application to formal tree series. (English summary) **2005c:68127**
Boreale, Michele (*with* Gadducci, Fabio) Denotational testing semantics in coinductive form. (English summary) (*see* **2005b:68020**)
(van Breugel, Franck) *see* **Rutten, J. J. M. M. et al., 2005d:68004**
Cancila, Daniela (*with* Honsell, Furio) A coalgebraic description of web interactions. (English summary) (*see* **2005b:68027**)
Cîrstea, Corina A compositional approach to defining logics for coalgebras. (English summary) **2005e:03035**
Clavel, Manuel *see* **Basin, David et al., 2005d:03052**
De Marchi, Federico *see* **Ghani, Neil et al., 2005m:18004**
Diaconescu, Răzvan An institution-independent proof of Craig interpolation theorem. (English summary) **2005e:03070**
Doberkat, Ernst-Erich The converse of a stochastic relation. (English summary) **2005i:68059**
Dybjer, Peter (*with* Setzer, Anton) Induction-recursion and initial algebras. (English summary) **2005h:03026**
Ésik, Zoltán *see* **Bloom, Stephen L., 2005c:68127**
Ferrari, Gian Luigi (*with* Montanari, Ugo; Tuosto, Emilio) Coalgebraic minimization of HD-automata for the π-calculus using polymorphic types. (English summary) **2005k:68149**
Fülöp, Zoltán (*with* Vogler, Heiko) Weighted tree transducers. (English summary) **2005c:68142**
Gadducci, Fabio *see* **Boreale, Michele,** (**2005b:68020**)
Ghani, Neil (*with* Lüth, Christoph; De Marchi, Federico) Monads of coalgebras: rational terms and term graphs. (English summary) **2005m:18004**
Goldblatt, Robert Enlargements of polynomial coalgebras. (English summary) **2005a:03063**
Honsell, Furio *see* **Cancila, Daniela,** (**2005b:68027**)
Jagadeesan, Radha *see* **Abramsky, Samson,** (**2005b:68014**)
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Klin, Bartek Adding recursive constructs to bialgebraic semantics. (English summary) **2005g:68092**
Kühnemann, Armin *see* **Voigtländer, Janis, 2005a:68041**
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Lämmel, Ralf Evolution of rule-based programs. (English summary) **2005a:68127**
Lazić, R. S. (*with* Newcomb, T. C.; Roscoe, A. W.) On model checking data-independent systems with arrays without reset. (English summary) **2005e:68158**
Lenisa, Marina (*with* Power, John; Watanabe, Hiroshi[6]) Category theory for operational semantics. (English summary) **2005e:68136**
Li, Sheng Gang *see* **Liu, Ni, 2005k:18013**
de'Liguoro, Ugo *see* **van Bakel, Steffen,** (**2005b:68027**)
Liu, Ni (*with* Li, Sheng Gang) Cartesian closed stable categories. (English summary) **2005k:18013**
Longley, John R. Universal types and what they are good for. (English summary) **2005b:68184**
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Meseguer, José *see* **Basin, David et al., 2005d:03052**
Milius, Stefan *see* **Adámek, Jiřiet al., 2005h:18002**
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(Panangaden, Prakash) *see* **Rutten, J. J. M. M. et al., 2005d:68004**
Parker, David *see* **Rutten, J. J. M. M. et al., 2005d:68004**
Pöschel, Reinhard (*with* Semigrodskikh, A. P.; Vogler, Heiko) Relationally defined clones of tree functions closed under selection or primitive recursion. (English summary) **2005e:03091**
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Roscoe, A. W. *see* **Lazić, R. S. et al., 2005e:68158**
Rutten, J. J. M. M. Behavioural differential equations: a coinductive calculus of streams, automata, and power series. (English summary) **2005g:68095**
— (*with* Kwiatkowska, Marta; Norman, Gethin; Parker, David) ★ Mathematical techniques for analyzing concurrent and probabilistic systems. **2005d:68004**
Schellhorn, Gerhard ASM refinement and generalizations of forward simulation in data refinement: a comparison. (English summary) **2005m:68070**
Semigrodskikh, A. P. *see* **Pöschel, Reinhard et al., 2005e:03091**
Setzer, Anton *see* **Dybjer, Peter, 2005h:03026**
Sokolova, Ana *see* **Bartels, Falk et al., 2005f:68102**
Touratier, E. Étude du typage dans le système de calcul scientifique Aldor. [Study of typing in the computer algebra system Aldor] **2005f:68173**
Tucker, J. V. (*with* Zucker, J. I.) Abstract versus concrete computation on metric partial algebras. (English summary) **2005e:68163**
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Velebil, Jiří *see* **Adámek, Jiřiet al., 2005h:18002**
de Vink, E. P. *see* **Bartels, Falk et al., 2005f:68102**
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Voigtländer, Janis (*with* Kühnemann, Armin) Composition of functions with accumulating parameters. (English summary) **2005a:68041**
Watanabe, Hiroshi[6] *see* **Lenisa, Marina et al., 2005e:68136**
Zucker, J. I. *see* **Tucker, J. V., 2005e:68163**

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Ambainis, Andris (*with* Beaudry, Martin; Golovkins, Marats; Ķikusts, Arnolds; Mercer, Mark; Thérien, Denis) Algebraic results on quantum automata. (English summary) **2005e:68166**
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Bergeron, Anne (*with* Hamel, Sylvie) From cascade decompositions to bit-vector algorithms. (English summary) **2005a:68139**
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Bogdanović, Stojan *see* **Ćirić, Miroslav et al., 2005f:68091**
Borchardt, Björn (*with* Vogler, Heiko) Determinization of finite state weighted tree automata. (English summary) **2005e:68167**
Bouillard, Anne (*with* Mairesse, Jean) Möbius inversion formula for the trace group. (English and French summaries) **2005g:68105**
Cao, Chun Hua (*with* Yang, Di) Properties on the product of left cancellative languages and disjunctive languages or of their generalizations. (Chinese. English and Chinese

summaries)

Champarnaud, Jean-Marc (*with* Duchamp, Gérard) Derivatives of rational expressions and related theorems. (English summary) **2005f:68090**

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Choffrut, Christian (*with* Goldwurm, Massimiliano; Lonati, Violetta) On the maximum coefficients of rational formal series in commuting variables. (English summary)

— Rational relations as rational series. (English summary) **2005h:68100**

Ćirić, Miroslav (*with* Petković, Tatjana; Bogdanović, Stojan; Bogdanović, Milena) Remarks on power automata. (English summary) **2005f:68091**

Droste, Manfred (*with* Kuske, Dietrich) Skew and infinitary formal power series. (English summary) **2005c:68184**

Duchamp, Gérard *see* **Champarnaud, Jean-Marc, 2005f:68090**

Ésik, Zoltán (*with* Kuich, Werner) Conway-Halbringe als Grundlage für eine mathematische Automatentheorie. (Russian summary) [Conway semirings as the basis for a mathematical automata theory] (*see* **2005f:00008**)

— (*with* Weil, Pascal) On logically defined recognizable tree languages. (English summary) **2005e:68168**

— (*with* Larsen, Kim Guldstrand) Regular languages definable by Lindström quantifiers. (English summary) **2005d:68092**

— (*with* Kuich, Werner) Equational axioms for a theory of automata. (English summary) (*see* **2005g:68088**)

— (*with* Kuich, Werner) An algebraic generalization of ω-regular languages. (English summary) **2005m:68147**

— (*with* Kuich, Werner) A semiring-semimodule generalization of ω-context-free languages. (English summary) **2005h:68101**

Goldwurm, Massimiliano *see* **Choffrut, Christian et al.**

Golovkins, Marats *see* **Ambainis, Andris et al., 2005e:68166**

Halava, Vesa Integer weighted finite automata, matrices, and formal power series over Laurent polynomials. (English summary) **2005h:68102**

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Inokuchi, Shuichi (*with* Kawahara, Yasuo) Tree expressions and their product formula. (English summary) **2005a:68140**

Karner, Georg Continuous monoids and semirings. (English summary) **2005m:68148**

Kawahara, Yasuo *see* **Inokuchi, Shuichi, 2005a:68140**

Kelarev, Andrei V. On the structure of incidence rings of group automata. (English summary) **2005e:68169**

Ķikusts, Arnolds *see* **Ambainis, Andris et al., 2005e:68166**

Krawetz, Bryan (*with* Lawrence, John W.; Shallit, Jeffrey O.) State complexity and the monoid of transformations of a finite set. (English summary) (*see* **2005m:68009**)

Kuich, Werner *see* **Ésik, Zoltán, 2005h:68101; 2005m:68147; (2005f:00008)** *and* **(2005g:68088)**

Kuske, Dietrich *see* **Droste, Manfred, 2005c:68184**

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La Torre, Salvatore (*with* Napoli, Margherita) Finite automata on timed ω-trees. (English summary) **2005b:68196**

Lawrence, John W. *see* **Krawetz, Bryan et al., (2005m:68009)**

Lonati, Violetta *see* **Choffrut, Christian et al.**

Mairesse, Jean *see* **Bouillard, Anne, 2005g:68105**

Mel′nikov, B. F. Description of special submonoids of the global supermonoid of a free monoid. (Russian) **2005f:68092**

Mercer, Mark *see* **Ambainis, Andris et al., 2005e:68166**

Napoli, Margherita *see* **La Torre, Salvatore, 2005b:68196**

Németh, Zoltán L. A hierarchy theorem for regular languages over free bisemigroups. (English summary) **2005f:68093**

Oliĭnyk, A. S. (*with* Sushchanskiĭ, V. I.) Conjugacy in inverse semigroups of partial automaton permutations over a finite alphabet. (Russian. English summary) **2005k:68137**

Petković, Tatjana *see* **Ćirić, Miroslav et al., 2005f:68091**

Ponomareva, A. Yu. (*with* Chirkov, M. K.) Optimal forms for specification of generalized nonstationary finite automaton models. (English summary) **2005k:68138**

Rystsov, I. K. Representation of regular ideals in finite automata. (Russian. English and Ukrainian summaries) **2005d:68093**

Shallit, Jeffrey O. *see* **Krawetz, Bryan et al., (2005m:68009)**

Shtrakov, Sl. (*with* Shtrakov, Vl.) Tree automata and separable sets of input variables. (English summary) **2005g:68106**

Shtrakov, Vl. *see* **Shtrakov, Sl., 2005g:68106**

Silva, Pedro V. Rational subsets of partially reversible monoids. (*see* **2005c:68010**)

(Simon, Imre) *see* **Thérien, Denis, 2005k:68139**

Sushchanskiĭ, V. I. *see* **Oliĭnyk, A. S., 2005k:68137**

Tesson, Pascal (*with* Thérien, Denis) Monoids and computations. (English summary) **2005h:68103**

Thérien, Denis Imre Simon: an exceptional graduate student. (English summary) **2005k:68139**

— *see also* **Chattopadhyay, Arkadev, 2005c:68183; Ambainis, Andris et al., 2005e:68166** *and* **Tesson, Pascal, 2005h:68103**

Vogler, Heiko *see* **Borchardt, Björn, 2005e:68167**

Volkov, Mikhail V. Reflexive relations, extensive transformations and piecewise testable languages of a given height. (English summary) **2005i:68056**

Weil, Pascal Algebraic recognizability of languages. (English summary) **2005m:68149**

— *see also* **Ésik, Zoltán, 2005e:68168**

Yang, Di *see* **Cao, Chun Hua**

Items with secondary classifications in 68Q70

Aceto, Luca (*with* Fokkink, Willem Jan; van Glabbeek, Rob J.; Ingólfsdóttir, Anna) Nested semantics over finite trees are equationally hard. (English summary) **2005b:68198**

Ananichev, D. S. (*with* Volkov, Mikhail V.) Synchronizing monotonic automata. (English summary) **2005h:68063**

Bartholdi, Laurent (*with* Grigorchuk, Rostislav I.; Šuniḱ, Zoran) Branch groups. **2005f:20046**

Bergeron-Brlek, Anouk (*with* Brlek, Srečko; Lacasse, Annie; Provençal, Xavier) Patterns in smooth tilings. (English summary) (*see* **2005c:68010**)

Bloom, Stephen L. (*with* Ésik, Zoltán) An extension theorem with an application to formal tree series. (English summary) **2005c:68127**

Bogdanović, Stojan *see* **Petković, Tatjana et al., 2005f:68074**

Bonizzoni, Paola (*with* De Felice, Clelia; Mauri, Giancarlo; Zizza, Rosalba) Circular splicing and regularity. (English summary) **2005c:68045**

Borchardt, Björn A pumping lemma and decidability problems for recognizable tree series. (English summary) **2005f:68067**

Brlek, Srečko *see* **Bergeron-Brlek, Anouk et al., (2005c:68010)**

Brodsky, Alex An impossibility gap between width-4 and width-5 permutation branching programs. **2005k:68056**

Bruyère, Véronique (*with* Carton, Olivier; Sénizergues, Géraud) Tree automata and automata on linear orderings. (*see* **2005c:68010**)

Burdonov, I. B. (*with* Kosachev, A. S.; Kulyamin, V. V.) Irredundant algorithms for traversing directed graphs. The deterministic case. (Russian. Russian summary) **2005c:68128**

Cao, Chun Hua The problem of freedom on certain subsemigroups of the submonoid of left singular languages. (English summary) **2005c:68129**

Carton, Olivier *see* **Bruyère, Véronique et al., (2005c:68010)**

Chalopin, Jérémie (*with* Leung, Hing) On factorization forests of finite height. (English summary) **2005a:20086**

Ćirić, Miroslav *see* **Petković, Tatjana et al., 2005f:68074**

Debski, Wojciech (*with* Fraczak, Wojciech) Concatenation state machines and simple functions. (English summary) (*see* **2005m:68009**)

De Felice, Clelia *see* **Bonizzoni, Paola et al., 2005c:68045**

Dimovski, Donco *see* **Manevska, Violeta, 2005m:20159**

Dömösi, Pál (*with* Nehaniv, Chrystopher L.) ★ Algebraic theory of automata networks. **2005m:68004**

Ehrenfeucht, Andrzej (*with* Harju, Tero; Rozenberg, Grzegorz) Zebra factorizations in free semigroups. (English summary) **2005b:20113**

Elston, Gillian Z. (*with* Ostheimer, Gretchen) On groups whose word problem is solved by a counter automaton. (English summary) **2005g:20051**

Ésik, Zoltán (*with* Németh, Zoltán L.) Higher dimensional automata. (English summary) **2005c:68138**

— (*with* Kuich, Werner) Inductive $*$-semirings. (English summary) **2005c:68139**

— (*with* Németh, Zoltán L.) Algebraic and graph-theoretic properties of infinite n-posets. (English summary) **2005m:68123**

— *see also* **Bloom, Stephen L., 2005c:68127**

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Fraczak, Wojciech *see* **Debski, Wojciech, (2005m:68009)**

Fülöp, Zoltán (*with* Gazdag, Zsolt; Vogler, Heiko) Hierarchies of tree series transformations. (English summary) **2005g:68078**

Gaál, Tamás Deciding sequentiability of finite-state transducers by finite-state pattern-matching. (English summary) **2005a:68117**

Gazdag, Zsolt *see* **Fülöp, Zoltán et al., 2005g:68078**

Gécseg, Ferenc (*with* Imreh, Balázs) On definite and nilpotent DR tree languages. (English summary) **2005b:68170**

van Glabbeek, Rob J. *see* **Aceto, Luca et al., 2005b:68198**

Grigorchuk, Rostislav I. *see* **Bartholdi, Laurent et al., 2005f:20046**

Guo, Xiu Hong Some properties of quantum languages. (Chinese. English and Chinese summaries)

Harju, Tero *see* **Ehrenfeucht, Andrzej et al., 2005b:20113**

Holzer, Markus (*with* König, Barbara) Regular languages, sizes of syntactic monoids, graph colouring, state complexity results, and how these topics are related to each other. (English summary)

— (*with* König, Barbara) On deterministic finite automata and syntactic monoid size. (English summary) **2005k:68117**

Honkala, Juha It is decidable whether the image of an N-rational sequence has a base. (English summary) **2005h:11051**

Hornung, Tamás (*with* Vágvölgyi, Sándor) Storage-to-tree transducers with look-ahead. (English summary) **2005k:68118**

Hudry, A. Injective envelope and parallel decomposition of a transition system. (English summary) **2005j:18002**

Imreh, Balázs *see* **Gécseg, Ferenc, 2005b:68170**

Ingólfsdóttir, Anna *see* **Aceto, Luca et al., 2005b:68198**

Ito, Masami[1] ★ Algebraic theory of automata and languages. **2005f:68001**

Jürgensen, Claus (*with* Vogler, Heiko) Syntactic composition of top-down tree transducers is short cut fusion. (English summary) **2005a:68039**

Kelarev, Andrei V. ★ Graph algebras and automata. **2005e:68001**

— (*with* Miller, Mirka; Sokratova, Olga V.) Languages recognized by two-sided automata of graphs. (English and Estonian summaries) **2005k:68119**

Keller, Walter Clustering for Petri nets. (English summary) **2005d:68098**

Kempe, André Extraction and recoding of input-ε-cycles in finite state transducers. (English summary) **2005c:68149**

Kirsten, Daniel The star problem in trace monoids: reductions beyond C4 (extended abstract). (English summary) (*see* **2005a:68007**)

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Kulyamin, V. V. *see* **Burdonov, I. B. et al., 2005c:68128**

Kunc, Michal The trace coding problem is undecidable (extended abstract). (English summary) (*see* **2005a:68007**)

— Equational description of pseudovarieties of homomorphisms. (English summary) **2005c:20106**

Lacasse, Annie *see* **Bergeron-Brlek, Anouk et al., (2005c:68010)**

Lawvere, F. William Functorial concepts of complexity for finite automata. (English summary) **2005h:18009**

Leung, Hing *see* **Chalopin, Jérémie, 2005a:20086**

Lisitsa, Alexei (*with* Potapov, Igor) Membership and reachability problems for row-monomial transformations. (English summary) **2005m:68127**
Maletti, Andreas Relating tree series transducers and weighted tree automata. (English summary)
Mamaghani, M. J. A class of two generated automaton groups on a three letter alphabet. (English and Persian summaries) **2005m:20062**
Manevska, Violeta (*with* Dimovski, Donco) (3, 2)-semigroups generated by (3, 2)-automata. (English summary) **2005m:20159**
Marchenkov, S. S. On the number of maximal subgroups in automaton permutation groups. (Russian. Russian summary) **2005b:68175**
Massouros, Gerasimos G. On the attached hypergroups of the order of an automation. (English summary) (*see* **2005a:20001**)
Mauri, Giancarlo *see* **Bonizzoni, Paola et al., 2005c:68045**
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Ohsaki, Hitoshi (*with* Seki, Hiroyuki; Takai, Toshinori) Recognizing Boolean closed A-tree languages with membership conditional rewriting mechanism. (English summary) (*see* **2005a:68016**)
Okhotin, Alexander Decision problems for language equations with Boolean operations. (English summary) (*see* **2005b:68008**)
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Pech, Christian Kleene's theorem for weighted tree-automata. (English summary) **2005c:68153**
Petković, Tatjana (*with* Ćirić, Miroslav; Bogdanović, Stojan) Unary algebras, semigroups and congruences on free semigroups. (English summary) **2005f:68074**
Petre, Ion On the difference problem for semilinear power series. (English summary) **2005a:68123**
Piirainen, Ville Monotone algebras, $\mathscr{R}$-trivial monoids and a variety of tree languages. (English summary)
Pin, Jean-Éric Expressive power of existential first-order sentences of Büchi's sequential calculus. (English summary) **2005k:03093**
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Provençal, Xavier *see* **Bergeron-Brlek, Anouk et al., (2005c:68010)**
Rhodes, John L. (*with* Steinberg, Benjamin) Join irreducible pseudovarieties, group mapping, and Kovács-Newman semigroups. (English summary) **2005k:20144**
Richomme, Gwénaël (*with* Séébold, Patrice) Conjectures and results on morphisms generating k-power-free words. (English summary) **2005d:68117**
Rozenberg, Grzegorz *see* **Ehrenfeucht, Andrzej et al., 2005b:20113**
Sântean, Nicolae Bimachines and structurally-reversed automata. (English summary) **2005c:68155**
Scheicher, Klaus (*with* Thuswaldner, Jörg M.) On the characterization of canonical number systems. **2005c:11013**
Schott, René (*with* Spehner, Jean-Claude) Two optimal parallel algorithms on the commutation class of a word. (English summary) **2005e:68133**
Séébold, Patrice *see* **Richomme, Gwénaël, 2005d:68117**
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(Shum, Kar Ping) *see* **Ordered structures and algebra of computer languages, 2005g:20001**
Silva, Pedro V. An application of first-order logic to the study of recognizable languages. (English summary) **2005g:03053**
— (*with* Steinberg, Benjamin) A geometric characterization of automatic monoids. (English summary) **2005f:20106**
Sokratova, Olga V. *see* **Kelarev, Andrei V. et al., 2005k:68119**
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Tesson, Pascal (*with* Thérien, Denis) Complete classifications for the communication complexity of regular languages. (English summary) **2005k:68070**
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Verma, Kumar Neeraj Two-way equational tree automata for AC-like theories: decidability and closure properties. (English summary) (*see* **2005a:68016**)
Vetrova, M. V. (*with* Evtushenko, N. V.) Synthesis of controllers for abstract and structural automata. (Russian. Russian summary) **2005k:93141**
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Weil, Pascal On the logical definability of certain graph and poset languages. (English summary) **2005e:03088**
Yu, Shyr-Shen Factorizations in the monoid of languages. (English summary) **2005h:68128**
(Yuen, Pong C.) *see* **Ordered structures and algebra of computer languages, 2005g:20001**
Zhao, Xian Zhong Locally closed semirings and iteration semirings. (English summary) **2005k:16100**
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Items listed otherwise than by author

Hong Kong ★ Ordered structures and algebra of computer languages. **2005g:20001**
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Abbott, Derek *see* **Flitney, Adrian P., 2005h:68104**
Achasova, S. M. Simple self-reproducing programs in a cellular space, based on the parallel substitution algorithm. (Russian. Russian summary)
Adachi, Susumu (*with* Peper, Ferdinand; Lee, Jia) Computation by asynchronously updating cellular automata. (English summary) **2005a:68141**
— *see also* **Lee, Jia et al., 2005c:68189**
Bandini, Stefania (*with* Simone, Carla) Integrating forms of interaction in a distributed model. (English summary) **2005c:68185**
Beigy, Hamid (*with* Meybodi, M. R.) A mathematical framework for cellular learning automata. (English summary) **2005i:68057**
Bernardi, Vincent (*with* Durand, Bruno; Formenti, Enrico; Kari, Jarkko) A new dimension sensitive property for cellular automata. (English summary) **2005m:68150**
Berthiaume, André (*with* Bittner, Todd; Perković, Ljubomir; Settle, Amber; Simon, Janos) Bounding the firing synchronization problem on a ring. (English summary) **2005c:68186**
Bittner, Todd *see* **Berthiaume, André et al., 2005c:68186**
Boykett, Tim Efficient exhaustive listings of reversible one dimensional cellular automata. (English summary) **2005f:68094**
Chapa Vergara, Sergio V. *see* **Seck Tuoh Mora, Juan Carlos et al., 2005k:68142**
Cho, Sung-Jin Analysis of pseudo-noise sequences generated by null boundary cellular automata. (English summary) **2005k:68140**
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Czeizler, Eugen On the size of the inverse neighborhoods for one-dimensional reversible cellular automata. (English summary) **2005e:68170**
Delorme, M. (*with* Mazoyer, J.) Real-time recognition of languages on an two-dimensional Archimedean thread. (English summary) **2005f:68096**
Durand, Bruno *see* **Bernardi, Vincent et al., 2005m:68150**
Dürr, Christoph (*with* Rapaport, Ivan; Theyssier, Guillaume) Cellular automata and communication complexity. (English summary) **2005c:68187**
Flitney, Adrian P. (*with* Abbott, Derek) A semi-quantum version of the game of Life. (English summary) **2005h:68104**
Formenti, Enrico *see* **Bernardi, Vincent et al., 2005m:68150**
Ganguly, Niloy *see* **Maji, Pradipta et al., 2005d:68095**
Gotts, Nicholas M. Self-organized construction in sparse random arrays of Conway's game of life. **2005f:68097**
Griffeath, David (*with* Hickerson, Dean) A two-dimensional cellular automaton crystal with irrational density. **2005g:68107**
Grigorieff, Serge (*with* Margenstern, Maurice) Register cellular automata in the hyperbolic plane. (English summary) **2005f:68098**
Ha, Kyeoung-Ju *see* **Ku, Kyo-Min et al., (2005c:00015)**
Hickerson, Dean *see* **Griffeath, David, 2005g:68107**
Hunziker, Markus (*with* Machiavelo, António; Park, Jihun) Chebyshev polynomials over finite fields and reversibility of σ-automata on square grids. (English summary) **2005a:68142**
Imai, Katsunobu *see* **Iwamoto, Chuzo et al., 2005c:68188**
Iwamoto, Chuzo (*with* Tateishi, Katsuyuki; Morita, Kenichi; Imai, Katsunobu) Simulations between multi-dimensional deterministic and alternating cellular automata. (English summary) **2005c:68188**
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Kari, Jarkko Theory of cellular automata: a survey. (English summary) **2005k:68141**
— *see also* **Bernardi, Vincent et al., 2005m:68150**
Ku, Kyo-Min (*with* Ha, Kyeoung-Ju; Yoo, Kee-Young) Fast exponentiation over GF(2^m) based on cellular automata. (English summary) (*see* **2005c:00015**)
Kunishima, Wataru (*with* Nishiyama, Akinobu; Tanaka, Hiroshi[4]; Tokihiro, Tetsuji) Differential equations for creating complex cellular automaton patterns. (English summary) **2005d:68094**
Kůrka, Petr (*with* Maass, Alejandro) Stability of subshifts in cellular automata. (English summary) **2005g:68108**
Kutrib, Martin (*with* Löwe, Jan-Thomas) Space- and time-bounded nondeterminism for cellular automata. (English summary) **2005f:68099**
Lee, Jia (*with* Adachi, Susumu; Peper, Ferdinand; Morita, Kenichi) Embedding universal delay-insensitive circuits in asynchronous cellular spaces. (English summary) **2005c:68189**
— *see also* **Adachi, Susumu et al., 2005a:68141**
Lomazova, Irina A. Communities of interacting automata. (Russian)
Löwe, Jan-Thomas *see* **Kutrib, Martin, 2005f:68099**
Maass, Alejandro *see* **Kůrka, Petr, 2005g:68108**
Machiavelo, António *see* **Hunziker, Markus et al., 2005a:68142**
Maji, Pradipta (*with* Shaw, Chandrama; Ganguly, Niloy; Sikdar, Biplab K.; Pal Chaudhuri, Parimal) Theory and application of cellular automata for pattern classification. (English summary) **2005d:68095**
Malcher, Andreas On one-way cellular automata with a fixed number of cells. (English summary) **2005h:68105**
Malinetskiĭ, G. G. (*with* Stepantsov, M. E.) Application of cellular automata to modeling the motion of a group of people. (Russian. Russian summary)
Mange, Daniel (*with* Stauffer, André; Petraglio, Enrico; Tempesti, Gianluca) Self-replicating loop with universal construction. (English summary) **2005c:68190**
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— *see also* **Grigorieff, Serge, 2005f:68098**
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McIntosh, Harold V. *see* **Seck Tuoh Mora, Juan Carlos et al., 2005k:68142**
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Michisaka, Koshi *see* **Umeo, Hiroshi et al., (2005c:00014)**
Morita, Kenichi *see* **Iwamoto, Chuzo et al., 2005c:68188** *and* **Lee, Jia et al., 2005c:68189**
Nichitiu, Codrin M. (*with* Rémila, Éric) Effective simulations on hyperbolic networks. (English summary) **2005c:68191**
Niemiec, Mark D. Synthesis of complex life objects from gliders. **2005c:68192**
Nishio, Hidenosuke (*with* Saito, Takashi[1]) Information dynamics of cellular automata. I. An algebraic study. (English summary) **2005f:68100**
Nishiyama, Akinobu *see* **Kunishima, Wataru et al., 2005d:68094**
Noguchi, Kenichiro Simple 8-state minimal time solution to the firing squad synchronization problem. (English summary) **2005a:68144**

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— The intrinsic universality problem of one-dimensional cellular automata. (English summary) **2005c:68193**
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Rémila, Éric *see* **Nichitiu, Codrin M., 2005c:68191**
Saito, Takashi[1] *see* **Nishio, Hidenosuke, 2005f:68100**
Seck Tuoh Mora, Juan Carlos (*with* Chapa Vergara, Sergio V.; Juárez Martínez, Genaro; McIntosh, Harold V.) Procedures for calculating reversible one-dimensional cellular automata. (English summary) **2005k:68142**
Settle, Amber *see* **Berthiaume, André et al., 2005c:68186**
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Stauffer, André *see* **Mange, Daniel et al., 2005c:68190**
Stepantsov, M. E. *see* **Malinetskiĭ, G. G.**
Stetsyura, G. G. Possibilities for the engineering implementation of cellular automata with remote connections and group operations. (Russian. Russian summary)
Sutner, Klaus Cellular automata and intermediate reachability problems. (English summary) **2005g:68109**
— Almost periodic configurations on linear cellular automata. (English summary) **2005g:68110**
— The complexity of reversible cellular automata. (English summary) **2005g:68111**
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Tateishi, Katsuyuki *see* **Iwamoto, Chuzo et al., 2005c:68188**
Tempesti, Gianluca *see* **Mange, Daniel et al., 2005c:68190**
Terrier, Véronique Two-dimensional cellular automata and their neighborhoods. (English summary) **2005b:68197**
Theyssier, Guillaume Captive cellular automata. (English summary) **2005m:68151**
— *see also* **Dürr, Christoph et al., 2005c:68187**
Tokihiro, Tetsuji *see* **Kunishima, Wataru et al., 2005d:68094**
Umeo, Hiroshi (*with* Michisaka, Koshi; Kamikawa, Naoki) A synchronization problem on 1-bit communication cellular automata. (English summary) (*see* **2005c:00014**)
— (*with* Kamikawa, Naoki) Real-time generation of primes by a 1-bit-communication cellular automaton. (English summary) **2005e:68171**
Wang, Farn (*with* Yen, Hsu-Chun) Reachability solution characterization of parametric real-time systems. (English summary) **2005f:68101**
Worsch, Thomas Simulations between cellular automata on trees extended by horizontal edges. (English summary) **2005g:68112**
— *see also* **Merkle, Daniel, 2005a:68143**
Yen, Hsu-Chun *see* **Wang, Farn, 2005f:68101**
Yoo, Kee-Young *see* **Ku, Kyo-Min et al., (2005c:00015)**

Items with secondary classifications in 68Q80

Adachi, Susumu *see* **Lee, Jia et al., 2005h:82079**
Agapie, Alexandru (*with* Höns, Robin; Mühlenbein, Heinz) Markov chain analysis for one-dimensional asynchronous cellular automata. (English summary) **2005d:60110**
Allouche, Jean-Paul (*with* Skordev, Gencho) Remarks on permutive cellular automata. (English summary) **2005j:37019**
Alonso-Sanz, Ramón One-dimensional $r = 2$ cellular automata with memory. (English summary) **2005f:37025**
Ammor, Nezha *see* **El Yacoubi, Samira et al., 2005e:93100**
Aracena, Julio (*with* Demongeot, Jacques; Goles Ch., Eric) On limit cycles of monotone functions with symmetric connection graph. (English summary) **2005m:37028**
Arai, Y. *see* **Tanaka, Masataka et al., (2005d:65006)**
Barrett, Chris L. (*with* Hunt, Harry B., III; Marathe, Madhav V.; Ravi, S. S.; Rosenkrantz, Daniel J.; Stearns, Richard E.) On some special classes of sequential dynamical systems. (English summary) **2005h:37038**
Blanchard, François (*with* Cervelle, Julien; Formenti, Enrico) Periodicity and transitivity for cellular automata in Besicovitch topologies. (English summary) **2005h:37024**
Boccara, Nino *see* **Moreira, Andrés et al., 2005f:37030**
Bouvry, Pascal *see* **Seredynski, Franciszek et al., 2005c:94057**
Bunimovich, Leonid A. (*with* Kreslavskiy, D. M.) Lorentz gas cellular automata on graphs. (English summary) **2005m:82098**
Capobianco, Silvio *see* **Toffoli, Tommaso et al., 2005j:82054**
Cattaneo, Gianpiero (*with* Dennunzio, Alberto; Margara, Luciano) Solution of some conjectures about topological properties of linear cellular automata. (English summary) **2005e:37025**
Cervelle, Julien (*with* Formenti, Enrico) On sand automata. (English summary) **2005c:68131**
— *see also* **Blanchard, François et al., 2005h:37024**
Chen, William Y. C. (*with* Li, Xue-liang; Wang, Chao[2]; Zhang, Xiaoyan) The minimum all-ones problem for trees. (English summary) **2005b:68125**
Chowdhury, Debashish *see* **John, Alexander et al.**
Chua, Leon O. (*with* Sbitnev, V. I.; Yoon, Sook) A nonlinear dynamics perspective of Wolfram's new kind of science. III. Predicting the unpredictable. (English summary) **2005h:37022**
— *see also* **Itoh, Makoto, 2005b:37019**
Colón-Reyes, Omar (*with* Laubenbacher, Reinhard; Pareigis, Bodo) Boolean monomial dynamical systems. (English summary) **2005k:37016**
Dartnell, Pablo (*with* Maass, Alejandro; Schwartz, Fernando) Combinatorial constructions associated to the dynamics of one-sided cellular automata. (English summary) **2005f:37027**
Davison, Matt *see* **Doeschl, Andrea et al., 2005h:65278**
Demongeot, Jacques *see* **Aracena, Julio et al., 2005m:37028**
Dennunzio, Alberto *see* **Cattaneo, Gianpiero et al., 2005e:37025**
Dihidar, Kajal (*with* Pal Choudhury, Pabitra) Matrix algebraic formulae concerning some exceptional rules of two-dimensional cellular automata. (English summary) **2005d:37024**
Doeschl, Andrea (*with* Davison, Matt; Rasmussen, Henning; Reid, Gregory John) Assessing cellular automata based models using partial differential equations. (English summary) **2005h:65278**
Dogaru, Radu ★ Universality and emergent computation in cellular neural networks. **2005e:82090**
Dömösi, Pál (*with* Nehaniv, Chrystopher L.) ★ Algebraic theory of automata networks. **2005m:68004**
Dong, Jian-Lang *see* **Shih, Mau-Hsiang, 2005g:06017**
Elder, Murray Regular geodesic languages and the falsification by fellow traveler property. (English summary) **2005k:20101**
Eloranta, Kari The bounded eight-vertex model. (English summary) **2005b:82018**
El Yacoubi, Samira (*with* Jacewicz, Przemyslaw; Ammor, Nezha) Analyse et contrôle par automates cellulaires. (French summary) [Analysis and control by cellular automata] **2005e:93100**
Evans, Kellie Michele Replicators and larger-than-life examples. **2005h:37025**
Fiorenzi, Francesca Semi-strongly irreducible shifts. (English summary) **2005d:37016**
Formenti, Enrico *see* **Cervelle, Julien, 2005c:68131** *and* **Blanchard, François et al., 2005h:37024**
aus der Fünten, Thomas *see* **Mühlenbein, Heinz, 2005g:82097**
Fuzzati, Rachele *see* **Nestmann, Uwe et al., (2005b:68010)**
Gajardo, Anahí (*with* Goles Ch., Eric) Dynamics of a class of ants on a one-dimensional lattice. (English summary) **2005c:82060**
Goles Ch., Eric *see* **Gajardo, Anahí, 2005c:82060**; **Moreira, Andrés et al., 2005f:37030**; **Aracena, Julio et al., 2005m:37028** *and* **Nivat, Maurice**
Gravner, Janko Growth phenomena in cellular automata. **2005d:82085**
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Gunji, Yukio-Pegio *see* **Haruna, Taichi, 2005m:06007**
Haruna, Taichi (*with* Gunji, Yukio-Pegio) Autonomous indefiniteness versus external indefiniteness: theory of weak topped ∩-structure and its application to elementary local cellular automaton. (English summary) **2005m:06007**
Heidel, Jack *see* **Matache, Mihaela T., 2005f:37028**
Hellberg, C. Stephen *see* **Weinstein, Yaakov S., 2005d:81104**
Hernández Encinas, Luis *see* **Rubio, C. Fraile et al., 2005k:65012**
Höns, Robin *see* **Agapie, Alexandru et al., 2005d:60110**
Hoya White, S. *see* **Rubio, C. Fraile et al., 2005k:65012**
Hughes, Joy V. Cellular automata for imaging, art, and video. (*see* **2005b:82059**)
Hunt, Harry B., III *see* **Barrett, Chris L. et al., 2005h:37038**
Inokuchi, Shuichi (*with* Kawahara, Yasuo) Tree expressions and their product formula. (English summary) **2005a:68140**
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Jacewicz, Przemyslaw *see* **El Yacoubi, Samira et al., 2005e:93100**
John, Alexander (*with* Schadschneider, Andreas; Chowdhury, Debashish; Nishinari, Katsuhiro) Collective effects in traffic on bi-directional ant trails. (English summary)
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Kreslavskiy, D. M. *see* **Bunimovich, Leonid A., 2005m:82098**
Krivovichev, S. V. Crystal structures and cellular automata. (English summary) **2005a:82111**
Kunimatsu, Toshihiko *see* **Konno, Norio et al., 2005g:37019**
Kůrka, Petr Cellular automata with vanishing particles. (English summary) **2005m:37029**
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Lee, Cassey Emergence and universal computation. (English summary) **2005c:68048**
Lee, Jia (*with* Adachi, Susumu; Peper, Ferdinand; Morita, Kenichi) Asynchronous game of life. (English summary) **2005h:82079**
Li, Xue-liang *see* **Chen, William Y. C. et al., 2005b:68125**
Louis, Pierre-Yves Ergodicity of PCA: equivalence between spatial and temporal mixing conditions. (English summary) **2005k:60158**
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Maass, Alejandro *see* **Dartnell, Pablo et al., 2005f:37027**
Mabuchi, Kosuke *see* **Ohi, Fumio, 2005j:37020**
Macfarlane, A. J. Linear reversible second-order cellular automata and their first-order matrix equivalents. (English summary) **2005h:82080**
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Margara, Luciano *see* **Cattaneo, Gianpiero et al., 2005e:37025**
Margolus, Norman H. Universal cellular automata based on the collisions of soft spheres. **2005m:37030**
Markose, Sheri M. Novelty in complex adaptive systems (CAS) dynamics: a computational theory of actor innovation. (English summary) **2005g:91023**
Martín del Rey, Ángel *see* **Rubio, C. Fraile et al., 2005k:65012**
Matache, Mihaela T. (*with* Heidel, Jack) Random Boolean network model exhibiting deterministic chaos. (English summary) **2005f:37028**
— (*with* Heidel, Jack) Asynchronous random Boolean network model based on elementary cellular automata rule 126. (English summary)
Matamala, Martín (*with* Moreno, Eduardo) Dynamic of cyclic automata over $\mathbb{Z}^2$. (English summary) **2005k:37017**
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Mentrasti, Patrizia *see* **Toffoli, Tommaso et al., 2005j:82054**
Merro, Massimo *see* **Nestmann, Uwe et al., (2005b:68010)**
(Moore, Cristopher) *see* **New constructions in cellular automata, 2005b:82059**
Moreira, Andrés (*with* Boccara, Nino; Goles Ch., Eric) On conservative and monotone one-dimensional cellular automata and their particle representation. (English summary)

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Moreno, Eduardo *see* **Matamala, Martín**, 2005k:37017

Morita, Kenichi *see* **Lee, Jia et al.**, 2005h:82079

Mühlenbein, Heinz Towards a theory of organisms and evolving automata. (English summary) (*see* **2005f:68006**)

— (*with* aus der Fünten, Thomas) An investigation of the phase transitions of a family of probabilistic automata. (English summary) **2005g:82097**

— *see also* **Agapie, Alexandru et al.**, 2005d:60110

Nehaniv, Chrystopher L. Asynchronous automata networks can emulate any synchronous automata network. (English summary) **2005h:68083**

— *see also* **Dömösi, Pál**, 2005m:68004

Nestmann, Uwe (*with* Fuzzati, Rachele; Merro, Massimo) Modeling consensus in a process calculus. (English summary) (*see* **2005b:68010**)

Nishinari, Katsuhiro *see* **John, Alexander et al.**

Nivat, Maurice For the 50th anniversary of Eric Goles [Discrete applied problems, florilegium for E. Goles].

Nobe, Atsushi (*with* Yura, Fumitaka) On reversibility of cellular automata with periodic boundary conditions. (English summary) **2005k:37018**

Ohi, Fumio (*with* Mabuchi, Kosuke) Time-space pattern and dynamics determined by elementary cellular automata. (English summary) **2005j:37020**

Okhotin, Alexander Boolean grammars. (English summary) **2005g:68068**

— On the equivalence of linear conjunctive grammars and trellis automata. (English summary) **2005b:68177**

Pal Choudhury, Pabitra *see* **Dihidar, Kajal**, 2005d:37024

Papazian, Christophe (*with* Rémila, Éric) Hyperbolic recognition by graph automata. (*see* **2005a:68008**)

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Peper, Ferdinand *see* **Lee, Jia et al.**, 2005h:82079

Rácz, Éva V. P. (*with* Karsai, János) Computer simulation results for cellular automata models of some ecological systems. (English summary) **2005b:92049**

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Rosenkrantz, Daniel J. *see* **Barrett, Chris L. et al.**, 2005h:37038

Rubio, C. Fraile (*with* Hernández Encinas, Luis; Hoya White, S.; Martín del Rey, Ángel; Rodríguez Sánchez, G.) The use of linear hybrid cellular automata as pseudorandom bit generators in cryptography. (English summary) **2005k:65012**

Sbitnev, V. I. *see* **Chua, Leon O. et al.**, 2005h:37022

Schadschneider, Andreas *see* **John, Alexander et al.**

Schwartz, Fernando *see* **Dartnell, Pablo et al.**, 2005f:37027

Seredynski, Franciszek (*with* Bouvry, Pascal; Zomaya, Albert Y.) Cellular automata computations and secret key cryptography. (English summary) **2005c:94057**

Shih, Mau-Hsiang (*with* Dong, Jian-Lang) A combinatorial analogue of the Jacobian problem in automata networks. (English summary) **2005g:06017**

Skordev, Gencho *see* **Allouche, Jean-Paul**, 2005j:37019

Stearns, Richard E. *see* **Barrett, Chris L. et al.**, 2005h:37038

Tanaka, Masataka (*with* Matsumoto, Takashi; Arai, Y.) Combined application of BEM and cellular automata to some shape optimization in acoustic fields. (English summary) (*see* **2005d:65006**)

Toffoli, Tommaso (*with* Capobianco, Silvio; Mentrasti, Patrizia) How to turn a second-order cellular automaton into a lattice gas: a new inversion scheme. (English summary) **2005j:82054**

Wang, Chao² *see* **Chen, William Y. C. et al.**, 2005b:68125

Watanabe, Tomonori Concrete construction and properties of the difference equation derived from the cellular automaton using the filtration technique. (English summary) **2005h:39037**

Weinstein, Yaakov S. (*with* Hellberg, C. Stephen) Quantum-cellular-automata pseudorandom maps. (English summary) **2005d:81104**

Yang, Xin-She Pattern formation in enzyme inhibition and cooperativity with parallel cellular automata. (English summary) **2005b:92004**

Yoon, Sook *see* **Chua, Leon O. et al.**, 2005h:37022

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Items listed otherwise than by author

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Aceto, Luca Some of my favourite results in classic process algebra.

— (*with* Fokkink, Willem Jan; van Glabbeek, Rob J.; Ingólfsdóttir, Anna) Nested semantics over finite trees are equationally hard. (English summary) **2005b:68198**

— (*with* Fokkink, Willem Jan; Ingólfsdóttir, Anna; Luttik, Bas) CCS with Hennessy's merge has no finite-equational axiomatization. (English summary) **2005k:68143**

de Alfaro, Luca (*with* Faella, Marco) Information flow in concurrent games. (English summary) **2005c:68194**

— (*with* Faella, Marco; Henzinger, Thomas A.; Majumdar, Rupak; Stoelinga, Mariëlle) The element of surprise in timed games. (English summary) **2005c:68195**

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Asarin, Eugene Challenges in timed languages: from applied theory to basic theory. (English summary)

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Baeten, Jos C. M. A brief history of process algebra. (English summary)

Baier, Christel (*with* Katoen, Joost-Pieter; Hermanns, Holger; Haverkort, Boudewijn) Simulation for continuous-time Markov chains. (English summary) **2005a:68145**

van Bakel, Steffen (*with* de'Liguoro, Ugo) Logical semantics for the first order ζ-calculus. (English summary) (*see* **2005b:68027**)

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Negulescu, Radu *see* **Brzozowski, Janusz, 2005h:03120**
Nestmann, Uwe (*with* Victor, Björn) Guest editors' introduction: special issue on the π-calculus.
— *see also* **Corradini, Flavio**
Norman, Gethin *see* **Rutten, J. J. M. M. et al., 2005d:68004**
Nygaard, Mikkel (*with* Winskel, Glynn) Full abstraction for HOPLA. (English summary) (*see* **2005b:68010**)
— (*with* Winskel, Glynn) Domain theory for concurrency. (English summary) **2005g:68094**
Oanea, Olivia *see* **Ţiplea, Ferucio Laurenţiu, 2005g:68100**
Odersky, Martin An introduction to functional nets. (English summary) (*see* **2005b:68006**)
Panangaden, Prakash *see* **Desharnais, Josée et al., 2005a:68132** *and* **Rutten, J. J. M. M. et al., 2005d:68004**
Pancerz, Krzysztof *see* **Fryc, B. et al.**
Panina, Ekaterina M. *see* **Regev, Aviv et al., 2005e:92018**
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Park, Seungjoon *see* **Dershowitz, Nachum et al., 2005e:68151**
Parker, David *see* **Rutten, J. J. M. M. et al., 2005d:68004**
Pass, Rafael Bounded-concurrent secure multi-party computation with a dishonest majority. (English summary) **2005j:68018**
Pattinson, Dirk (*with* Wirsing, Martin) A coordination approach to mobile components. (English summary) **2005i:68046**
Pei, Yu (*with* Xu, Qi Wen) Checking interval based properties for reactive systems. (English summary) **2005e:68162**
Peters, James F., III *see* **Fryc, B. et al.**
Piazza, Carla (*with* Policriti, Alberto) Ackermann encoding, bisimulations and OBDDs. (English summary) **2005f:68086**
Plotkin, Gordon D. The origins of structural operational semantics. (English summary) **2005e:68002**
Pnueli, Amir *see* **Arons, Tamarah et al., 2005c:68163**
Polak, Michał (*with* Majdzik, Paweł; Banaszak, Zbigniew; Wójcik, Robert) The performance evaluation tool for automated prototyping of concurrent cyclic processes. (English summary)
Policriti, Alberto *see* **Piazza, Carla, 2005f:68086**
Prelic, Amela *see* **Bugliesi, Michele et al., 2005d:94088**
Priami, C. *see* **Curti, M. et al., 2005e:92015**
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Rathke, Julian *see* **Hennessy, Matthew et al., 2005b:68036** *and* **Jeffrey, Alan Stewart Austin, 2005c:68029**
Raussen, Martin *see* **Fajstrup, L. et al., 2005a:55010**
Regev, Aviv (*with* Panina, Ekaterina M.; Silverman, William; Cardelli, Luca; Shapiro, Ehud) BioAmbients: an abstraction for biological compartments. (English summary) **2005e:92018**
Retoré, Christian A description of the non-sequential execution of Petri nets in partially commutative linear logic. (English summary) **2005e:03137**
Rohloff, Kurt (*with* Lafortune, Stéphane[1]) PSPACE-completeness of modular supervisory control problems. (English summary) **2005k:93134**
Rudeanu, Sergiu (*with* Vaida, Dragoş) Semirings in operations research and computer science: more algebra. (English summary) **2005k:68136**
Rukšėnas, Rimvydas A rigorous environment for development of concurrent systems. (English summary)
Rutten, J. J. M. M. Behavioural differential equations: a coinductive calculus of streams, automata, and power series. (English summary) **2005g:68095**
— (*with* Kwiatkowska, Marta; Norman, Gethin; Parker, David) ★ Mathematical techniques for analyzing concurrent and probabilistic systems. **2005d:68004**
Sangiorgi, Davide (*with* Valente, Andrea) A distributed abstract machine for safe ambients (extended abstract). (*see* **2005a:68007**)
Sassone, Vladimiro *see* **Bugliesi, Michele et al., 2005d:94088**
Savari, Serap A. Compressing a representation of events in a concurrent system. (English summary) **2005d:68034**
Schobbens, Pierre-Yves *see* **Bontemps, Yves et al., 2005h:68090**
Seatzu, Carla *see* **Giua, Alessandro et al., 2005b:93113**
Shapiro, Ehud *see* **Regev, Aviv et al., 2005e:92018**
Shikaripura, Vivek (*with* Kshemkalyani, Ajay D.) A simple, memory-efficient bounded concurrent timestamping algorithm. (English summary) (*see* **2005b:68004**)
Silverman, William *see* **Regev, Aviv et al., 2005e:92018**
Simpson, Alex Sequent calculi for process verification: Hennessy-Milner logic for an arbitrary GSOS. (English summary) **2005d:68090**
Singh, Awadhesh Kumar[2] (*with* Bandyopadhyay, Anup Kumar) Verifying mutual exclusion and liveness properties with split preconditions. (English summary)
Sohoni, Milind *see* **Adsul, Bharat,** (**2005a:68008**)
Srba, Jiří Strong bisimilarity in regularity of basic process algebra is PSPACE-hard. (English summary) (*see* **2005a:68008**)
Suraj, Zbigniew *see* **Fryc, B. et al.**
Syropoulos, Apostolos *see* **Atanassov, Krassimir T. et al.**
Takamura, Masataka (*with* Igarashi, Yoshihide) Group mutual exclusion algorithms based on ticket orders. (English summary) (*see* **2005a:05002**)
— (*with* Altman, Tom; Igarashi, Yoshihide) Speedup of Vidyasankar's algorithm for the group k-exclusion problem. (English summary) **2005a:68233**
Talpin, Jean-Pierre *see* **Kerbœuf, Mickaël, 2005k:68024**
Tarek, Ahmed (*with* Lopez-Benitez, Noé) Optimal legal firing sequence of Petri nets using linear programming. (English summary) **2005d:90075**
Tini, Simone Rule formats for compositional non-interference properties. (English summary) **2005b:68185**
Ţiplea, Ferucio Laurenţiu (*with* Oanea, Olivia) Model checking for linear time μ-calculus and extended Petri nets. (English summary) **2005g:68100**
Touili, Tayssir *see* **Bouajjani, Ahmed, 2005e:68115**

Trefler, Richard *see* **Amla, Nina et al.**, (2005b:68010)
Tsinakis, Constantine (*with* Zhang, Han) Order algebras as models of linear logic. (English summary) **2005g:03116**
Turini, Franco *see* **Bracciali, Andrea et al.**, 2005k:68128
Ulidowski, Irek (*with* Yuen, Shoji) Process languages with discrete relative time based on the ordered SOS format and rooted eager bisimulation. (English summary) **2005g:68096**
Vaida, Dragoş *see* **Rudeanu, Sergiu**, 2005k:68136
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Vardi, Moshe Y. *see* **Bustan, Doron et al.**, 2005e:68145
Vasconcelos, Vasco Thudichum Lambda and pi calculi, CAM and SECD machines. (English summary) **2005h:68019**
Victor, Björn *see* **Nestmann, Uwe**
Villemaire, Roger An approximation semantics for the propositional mu-calculus. (English summary) (*see* **2005b:68019**)
de Vink, E. P. *see* **Baeten, Jos C. M.**, 2005b:68180
Vogler, Walter *see* **Khomenko, Victor et al.**, (2005b:68011)
Völzer, Hagen A constructive proof for FLP. (English summary) **2005c:68019**
Vorob'ev, Nikolaĭ, Jr. *see* **Korovina, Margarita**, 2005m:93096
Wan, Fu Cai *see* **Li, Yan Ping[1] et al.**
Wang, Farn Inductive composition of numbers with maximum, minimum, and addition: a new theory for program execution-time analysis. (English summary) **2005k:68133**
Winskel, Glynn *see* **Nygaard, Mikkel**, 2005g:68094 *and* (2005b:68010)
Wirsing, Martin *see* **Pattinson, Dirk**, 2005i:68046
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Wójcik, Robert *see* **Polak, Michałet al.**
Wolf, Verena *see* **Baier, Christel et al.**, (2005b:68010)
Woods, Damien (*with* Naughton, Thomas J.) An optical model of computation. (English summary) **2005k:68053**
Worrell, James *see* **van Breugel, Franck**, (2005a:68007)
Xie, Xiao-Lan *see* **Darondeau, Ph.**, 2005k:93139
Xu, Qi Wen *see* **Pei, Yu**, 2005e:68162
Yakovlev, Alexandre V. *see* **Khomenko, Victor et al.**, 2005d:68085
Yeh, Hong-Gwa (*with* Zhu, Xuding) Resource-sharing system scheduling and circular chromatic number. (English summary) **2005j:68083**
Yin, Hao *see* **Jiang, Yi Xin et al.**
Yuan, Zhong Hu *see* **Li, Yan Ping[1] et al.**
Yuen, Shoji *see* **Ulidowski, Irek**, 2005g:68096
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Zhang, Han *see* **Tsinakis, Constantine**, 2005g:03116
Zhu, Xuding *see* **Yeh, Hong-Gwa**, 2005j:68083
Zuck, Lenore *see* **Arons, Tamarah et al.**, 2005c:68163

Items listed otherwise than by author

CONCUR 2003—concurrency theory ★ CONCUR 2003—concurrency theory. **2005b:68010**
Lecture Notes in Computer Science ★ CONCUR 2003—concurrency theory. **2005b:68010**
Marseille ★ CONCUR 2003—concurrency theory. **2005b:68010**
Mathematical techniques for analyzing concurrent and probabilistic systems *see* **Rutten, J. J. M. M. et al.**, 2005d:68004

68Q99 None of the above, but in this section

Baier, Christel (*with* Hermanns, Holger; Katoen, Joost-Pieter; Wolf, Verena) Comparative branching-time semantics for Markov chains (extended abstract). (English summary) (*see* **2005b:68010**)
Danos, Vincent (*with* Desharnais, Josée; Panangaden, Prakash) Conditional expectation and the approximation of labelled Markov processes. (English summary) **2005c:68211**
Desharnais, Josée *see* **Danos, Vincent et al.**, 2005c:68211
Hermanns, Holger *see* **Baier, Christel et al.**, (2005b:68010)
Katoen, Joost-Pieter *see* **Baier, Christel et al.**, (2005b:68010)
Lee, James R. (*with* Mendel, Manor; Naor, Assaf) Metric structures in L_1: dimension, snowflakes, and average distortion. (English summary) **2005g:68125**
Mendel, Manor *see* **Lee, James R. et al.**, 2005g:68125
Miltersen, Peter Bro (*with* Radhakrishnan, Jaikumar; Wegener, Ingo) On converting CNF to DNF. (English summary) **2005c:68212**
Naor, Assaf *see* **Lee, James R. et al.**, 2005g:68125
Panangaden, Prakash *see* **Danos, Vincent et al.**, 2005c:68211
Radhakrishnan, Jaikumar *see* **Miltersen, Peter Bro et al.**, 2005c:68212
Wegener, Ingo *see* **Miltersen, Peter Bro et al.**, 2005c:68212
Wolf, Verena *see* **Baier, Christel et al.**, (2005b:68010)

Items with secondary classifications in 68Q99

D'Souza, Raissa M. (*with* Homsy, George E.; Margolus, Norman H.) Simulating digital logic with the reversible aggregation model of crystal growth. **2005f:82072**
Dyer, Martin (*with* Sinclair, Alistair; Vigoda, Eric; Weitz, Dror) Mixing in time and space for lattice spin systems: a combinatorial view. (English summary) **2005d:82082**
Gács, Peter Compatible sequences and a slow Winkler percolation. (English summary) (*see* **2005j:68008**)
Glebskiĭ, L. Yu. (*with* Gordon, E. I.) On approximation of locally compact groups by finite algebraic systems. (English summary) **2005g:26032**
Gordon, E. I. *see* **Glebskiĭ, L. Yu.**, 2005g:26032
Homsy, George E. *see* **D'Souza, Raissa M. et al.**, 2005f:82072
Kopperman, Ralph (*with* Künzi, Hans-Peter A.; Waszkiewicz, Paweł) Bounded complete models of topological spaces. (English summary) **2005e:54012**
Künzi, Hans-Peter A. *see* **Kopperman, Ralph et al.**, 2005e:54012
Margolus, Norman H. *see* **D'Souza, Raissa M. et al.**, 2005f:82072
Montenegro, Ravi (*with* Son, Jung-Bae) Edge isoperimetry and rapid mixing on matroids and geometric Markov chains. (English summary) (*see* **2005j:68008**)
Orlov, V. A. On the recognition of some properties of systems of finite-valued functions. (Russian) **2005c:94093**
Papadimitriou, Christos H. ★ Turing. **2005h:68001**
Pinus, A. G. (*with* Zhurkov, S. V.) Scales of computability potentials of finite algebras: results and problems. (Russian. English and Russian summaries) **2005g:08004**
Sinclair, Alistair *see* **Dyer, Martin et al.**, 2005d:82082
Son, Jung-Bae *see* **Montenegro, Ravi**, (2005j:68008)
(Turing, Alan Mathison) *see* **Papadimitriou, Christos H.**, 2005h:68001
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Waszkiewicz, Paweł *see* **Kopperman, Ralph et al.**, 2005e:54012
Weitz, Dror *see* **Dyer, Martin et al.**, 2005d:82082
Zhurkov, S. V. *see* **Pinus, A. G.**, 2005g:08004

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68R01 General

Items with secondary classifications in 68R01

Drmota, Michael An analytic approach to the height of binary search trees. II. (English summary) **2005m:68050**
Ergün, Funda (*with* Kumar, S. Ravi; Rubinfeld, Ronitt) Fast approximate probabilistically checkable proofs. (English summary) **2005a:68076**
Icking, Christian (*with* Klein, Rolf; Langetepe, Elmar; Schuierer, Sven; Semrau, Ines) An optimal competitive strategy for walking in streets. (English summary) **2005e:68095**
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Semrau, Ines *see* **Icking, Christian et al.**, 2005e:68095

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Ajtai, Miklós (*with* Jayram, T. S.; Kumar, S. Ravi; Sivakumar, Dandapani) Approximate counting of inversions in a data stream. (English summary) (*see* **2005i:68004**)
Bacchelli, Silvia (*with* Barcucci, Elena; Grazzini, Elisabetta; Pergola, Elisa) Exhaustive generation of combinatorial objects by ECO. (English summary) **2005b:68203**
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Bargachev, V. Some properties of min-wise independent families and groups of permutations. (Russian. English and Russian summaries) **2005g:68126**
Bereg, Sergei Cylindrical hierarchy for deforming necklaces. (English summary) **2005b:68204**
Bergeron, Anne A very elementary presentation of the Hannenhalli-Pevzner theory. (English summary) **2005k:68156**
Borgs, Christian (*with* Chayes, Jennifer T.; Mertens, Stephan; Pittel, Boris) Constrained integer partitions. (English summary) (*see* **2005d:68010**)
Caminiti, Saverio (*with* Finocchi, Irene; Petreschi, Rossella) A unified approach to coding labeled trees. (English summary) (*see* **2005d:68010**)
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Chen, Xiao (*with* Shen, Jian[2]) On the Frame-Stewart conjecture about the Towers of Hanoi. (English summary) **2005e:68179**
Cicalese, Ferdinando (*with* Deppe, Christian) Quasi-perfect minimally adaptive q-ary search with unreliable tests. (English summary) **2005d:68101**
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Cormode, Graham (*with* Muthukrishnan, S. Muthu; Şahinalp, Süleyman Cenk) Permutation editing and matching via embeddings. (English summary) (*see* **2005a:68007**)
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Elbassioni, Khaled M. An algorithm for dualization in products of lattices and its applications. (English summary) (*see* **2005c:68002**)
Fagin, Ronald (*with* Kumar, S. Ravi; Sivakumar, Dandapani) Comparing top k lists. (English summary) **2005a:68154**
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Flajolet, Philippe (*with* Guivarc'h, Yves; Szpankowski, Wojciech; Vallée, Brigitte) Hidden pattern statistics. (English summary) (*see* **2005a:68007**)
Goldwurm, Massimiliano *see* **de Falco, Diego et al.**, (2005c:68010)
Golubitskiĭ, O. D. (*with* Falconer, Sean Michael) Infinite strings generated by insertions. (Russian. Russian summary)
Grazzini, Elisabetta *see* **Bacchelli, Silvia et al.**, 2005b:68203
Guivarc'h, Yves *see* **Flajolet, Philippe et al.**, (2005a:68007)
Halldórsson, Magnús M. (*with* Iwama, Kazuo; Miyazaki, Shuichi; Yanagisawa, Hiroki) Randomized approximation of the stable marriage. (English summary) 2005e:68181
Hliněný, Petr Branch-width, parse trees, and monadic second-order logic for matroids (extended abstract). (English summary) **2005b:68205**
Itoh, Toshiya (*with* Takei, Yoshinori; Tarui, Jun) On the sample size of k-restricted min-wise independent permutations and other distributions. (English summary) **2005k:68157**
— *see also* **Tarui, Jun et al.**, 2005c:68215
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Jayram, T. S. *see* **Ajtai, Miklós et al.**, (2005i:68004)

Kiwi, Marcos (*with* Loebl, Martin; Matoušek, Jiří) Expected length of the longest common subsequence for large alphabets. (English summary) **2005f:68110**
Klazar, Martin On the least exponential growth admitting uncountably many closed permutation classes. (English summary) **2005f:68111**
Kumar, S. Ravi *see* **Fagin, Ronald et al., 2005a:68154** *and* **Ajtai, Miklós et al., (2005i:68004)**
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Morris, Katherine (*with* Panholzer, Alois; Prodinger, Helmut) On some parameters in heap ordered trees. (English summary) **2005f:68112**
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Muthukrishnan, S. Muthu *see* **Cormode, Graham et al., (2005a:68007)**
Newman, Alantha (*with* Ruhl, Matthias) Combinatorial problems on strings with applications to protein folding. (English summary) (*see* **2005d:68010**)
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Talwar, Kunal The price of truth: frugality in truthful mechanisms. (English summary) **2005b:68206**
Tan, Bo[2] (*with* Wen, Zhi-Xiong; Zhang, Yi Ping) The structure of invertible substitutions on a three-letter alphabet. (English summary) **2005e:68182**
Tarui, Jun (*with* Itoh, Toshiya; Takei, Yoshinori) A nearly linear size 4-min-wise independent permutation family by finite geometries. (English summary) **2005c:68215**
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Tokuyama, Takeshi *see* **Sadakane, Kunihiko et al., (2005a:68007)**
Vallée, Brigitte *see* **Flajolet, Philippe et al., (2005a:68007)**
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Wigderson, Avi *see* **Meshulam, Roy, (2005i:68004)**
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Items with secondary classifications in 68R05

Aarts, Emile *see* **Michiels, Wil et al., 2005c:68303**
Agrawal, Aseem *see* **Bansal, Vipul et al., 2005c:05148**
Alekseyev, Max A. (*with* Pevzner, Pavel A.) Genome halving problem revisited. (English summary) **2005m:92020**
Babai, László (*with* Gál, Anna; Kimmel, Peter G.; Lokam, Satyanarayana V.) Communication complexity of simultaneous messages. (English summary) **2005a:68084**
Bansal, Vipul (*with* Agrawal, Aseem; Malhotra, Varun S.) Stable marriages with multiple partners: efficient search for an optimal solution. (English summary) **2005c:05148**
Ben-Naim, Eli (*with* Krapivsky, Paul L.; Redner, Sidney) Extremal properties of random structures. (English summary) (*see* **2005g:05005**)
Bergeron, Anne (*with* Stoye, Jens) On the similarity of sets of permutations and its applications to genome comparison. (English summary) (*see* **2005a:05002**)
Bodini, Olivier (*with* Rémila, Éric) Tilings with trichromatic colored-edges triangles. (English summary) **2005f:05037**
Böhler, Elmar (*with* Glaßer, Christian; Schwarz, Bernhard; Wagner, Klaus W.) Generation problems. (English summary) **2005m:68096**
Borgs, Christian (*with* Chayes, Jennifer T.; Pittel, Boris) Sharp threshold and scaling window for the integer partitioning problem. (English summary) (*see* **2005j:68008**)
Boykett, Tim Efficient exhaustive listings of reversible one dimensional cellular automata. (English summary) **2005f:68094**
Brlek, Srečko (*with* Labelle, Gilbert; Lacasse, Annie) Algorithms for polyominoes based on the discrete Green theorem. (English summary) **2005m:05057**
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Akkerman, Thorsten (*with* Buchheim, Christoph; Jünger, Michael; Teske, Daniel) Corrigendum: "The complexity of drawing trees nicely" [Acta Inform. **18** (1982/83), no. 4, 377–392; MR0691736 (84c:68033)] by K. J. Supowit and E. M. Reingold. (English summary) **2005b:68117**

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— (*with* Fellows, Michael R.; Niedermeier, Rolf) Polynomial-time data reduction for dominating set. (English summary) **2005m:68093**

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— (*with* Shapira, Asaf) Testing subgraphs in directed graphs. (English summary) **2005e:68083**

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Bae, Myung M. (*with* Albdaiwi, Bader F.; Bose, Bella) Edge-disjoint Hamiltonian cycles in two-dimensional torus. (English summary) **2005e:05082**

Baltz, Andreas (*with* Jäger, Gerold; Srivastav, Anand) Constructions of sparse asymmetric connectors (extended abstract). (English summary) (*see* **2005d:68008**)

— (*with* Srivastav, Anand) Approximation algorithms for the Euclidean bipartite TSP. (English summary) **2005m:68249**

Ban, Yih-En Andrew (*with* Bereg, Sergei; Mustafa, Nabil H.) A conjecture on Wiener indices in combinatorial chemistry. (English summary) **2005e:05042**

Barabási, Albert-László (*with* Albert, Réka) Emergence of scaling in random networks. (English summary)

Barbanchon, Régis On unique graph 3-colorability and parsimonious reductions in the plane. (English summary) **2005e:68086**

Barbosa, Valmir C. *see* **Penso, Lucia D., 2005d:05116**

Barrière, Lali (*with* Fraigniaud, Pierre; Santoro, Nicola; Thilikos, Dimitris M.) Searching is not jumping. (English summary) (*see* **2005b:05002**)

Bartal, Yair (*with* Mendel, Manor) Randomized k-server algorithms for growth-rate bounded graphs. (English summary) **2005m:68245**

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Beigel, Richard *see* **Alon, Noga et al., 2005e:68110**

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Benkoczi, Robert (*with* Bhattacharya, Binay; Chrobak, Marek; Larmore, Lawrence L.; Rytter, Wojciech) Faster algorithms for k-medians in trees (extended abstract). (English summary) (*see* **2005b:68020**)

(Ben-Naim, Eli) *see* **Complex networks, 2005g:05005**

Bereg, Sergei *see* **Ban, Yih-En Andrew et al., 2005e:05042**

Berg, Alex R. (*with* Jordán, Tibor) Algorithms for graph rigidity and scene analysis. (English summary) (*see* **2005c:68003**)

Berman, Piotr (*with* Karpinski, Marek) Approximation hardness of bounded degree MIN-CSP and MIN-BISECTION. (English summary) (*see* **2005a:68008**)

Berry, Anne (*with* Heggernes, Pinar; Simonet, Geneviève) The minimum degree heuristic and the minimal triangulation process. (English summary) **2005c:05053**

— (*with* Sigayret, Alain) Representing a concept lattice by a graph. (English summary) **2005e:68235**

Bertossi, Alan A. (*with* Pinotti, Cristina M.; Rizzi, Romeo; Shende, Anil M.) Channel assignment in honeycomb networks. (English summary) (*see* **2005b:68027**)

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Bhosle, Amit *see* **Hershberger, John et al., 2005b:68114**

Biedl, Therese (*with* Wilkinson, Dana F.) Bounded-degree independent sets in planar graphs. (English summary) (*see* **2005b:68004**)

— (*with* Brejová, Broňa; Demaine, Erik D.; Hamel, Angèle M.; López-Ortiz, Alejandro; Vinař, Tomáš) Finding hidden independent sets in interval graphs. (English summary) **2005c:68283**

— (*with* Chan, Timothy M.) A note on 3D orthogonal graph drawing. (English summary) **2005k:05165**

— (*with* Wilkinson, Dana F.) Bounded-degree independent sets in planar graphs. (English summary) **2005k:05174**

Björklund, A. (*with* Husfeldt, Thore) Finding a path of superlogarithmic length. (English summary) (*see* **2005a:68008**)

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— (*with* Gajardo, Anahí; Heymans, Maureen; Senellart, Pierre; Van Dooren, Paul) A measure of similarity between graph vertices: applications to synonym extraction and web searching. (English summary) **2005m:05205**

Bodini, Olivier On the minimum size of a contraction-universal tree. (English summary) (*see* **2005a:68015**)

Bodirsky, Manuel (*with* Gröpl, Clemens; Kang, Mihyun) Generating labeled planar graphs uniformly at random. (English summary) (*see* **2005b:68008**)

Bodlaender, Hans L. (*with* Rotics, Udi) Computing the treewidth and the minimum fill-in with the modular decomposition. (English summary) (*see* **2005a:68002**)

— (*with* Brandstädt, Andreas; Kratsch, Dieter; Rao, Michaël; Spinrad, Jeremy P.) Linear time algorithms for some NP-complete problems on (P_5, Gem)-free graphs (extended abstract). (English summary) (*see* **2005b:68015**)

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Bollobás, Béla (*with* Gamarnik, David; Riordan, Oliver; Sudakov, Benny) On the value of a random minimum weight Steiner tree. (English summary) **2005d:05130**

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— (*with* Gavoille, Cyril; Hanusse, Nicolas) An information-theoretic upper bound of planar graphs using triangulation (extended abstract). (English summary) (*see* **2005b:68025**)

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— (*with* Gurvich, Vladimir; Khachiyan, Leonid; Makino, Kazuhisa) Dual-bounded generating problems: weighted transversals of a hypergraph. (English summary) **2005g:05102**

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Bose, Prosenjit (*with* Gudmundsson, Joachim; Smid, Michiel) Constructing plane spanners of bounded degree and low weight. (English summary) (*see* **2005c:68002**)

— (*with* Czyzowicz, Jurek; Morin, Pat; Wood, David R.) The maximum number of edges in a three-dimensional grid-drawing. (English summary) **2005h:05138**

— (*with* Morin, Pat) Competitive online routing in geometric graphs. (English summary) **2005d:68015**

— (*with* Gudmundsson, Joachim; Smid, Michiel) Constructing plane spanners of bounded degree and low weight. (English summary) **2005m:52020**

Bouchitté, V. (*with* Mazoit, F.; Todinca, Ioan) Chordal embeddings of planar graphs. (English summary) **2005b:05071**

Boussaïri, Abderrahim (*with* Ille, Pierre; Lopez, Gérard; Thomassé, Stéphan) The C_3-structure of the tournaments. (English summary) **2005h:05090**

Brandstädt, Andreas (*with* Dragan, Feodor F.; Le, Hoàng-Oanh; Le, Van Bang; Uehara, Ryuhei) Tree spanners for bipartite graphs and probe interval graphs. (English summary) (*see* **2005b:05002**)

— (P_5, diamond)-free graphs revisited: structure and linear time optimization. (English summary) **2005g:05127**

— (*with* Le, Hoàng-Oanh; Mosca, Raffaele) Gem- and co-gem-free graphs have bounded clique-width. (English summary) **2005b:05193**

— *see also* **Bodlaender, Hans L. et al., (2005b:68015)**

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— *see also* **Salman, A. N. M. et al., 2005c:05146**

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Carayol, Arnaud (*with* Wöhrle, Stefan) The Caucal hierarchy of infinite graphs in terms of logic and higher-order pushdown automata. (English summary) **2005f:03014**

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Chakrabarti, Amit (*with* Khot, Subhash) Improved lower bounds on the randomized complexity of graph properties. (English summary) (*see* **2005a:68007**)

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Chao, Kun-Mao *see* **Lin, Rung-Ren et al.**, (**2005c:68004**)

Chazelle, Bernard (*with* Rubinfeld, Ronitt; Trevisan, Luca) Approximating the minimum spanning tree weight in sublinear time. (English summary) (*see* **2005a:68007**)

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Chen, An Long (*with* Tang, Chang Jie; Tao, Hong Cai; Yuan, Chang An; Xie, Fang Jun) An improved algorithm based on maximum clique and FP-tree for mining association rules. (Chinese. English and Chinese summaries)

Chen, Danny Z. *see* **Wu, Xiaodong[1] et al.**, (**2005a:68008**) *and* (**2005a:05002**)

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Chen, Guantao (*with* Faudree, R. Jasper; Gould, Ronald J.; Jacobson, Michael S.; Lesniak, Linda; Pfender, Florian) Linear forests and ordered cycles. (English summary) **2005m:05122**

Chen, Guo Liang[2] *see* **Zhang, Xian-Chao et al.**

Chen, Jian-Er (*with* Kanj, Iyad A.; Xia, Ge) Labeled search trees and amortized analysis: improved upper bounds for NP-hard problems. (English summary) (*see* **2005c:68004**)

— (*with* Kanj, Iyad A.; Perković, Ljubomir; Sedgwick, Eric; Xia, Ge) Genus characterizes the complexity of graph problems: some tight results. (English summary) **2005c:68086**

Chen, Jiangzhuo (*with* Kleinberg, Robert D.; Lovász, László; Rajaraman, Rajmohan; Sundaram, Ravi; Vetta, Adrian) (Almost) tight bounds and existence theorems for confluent flows. (English summary) **2005i:90007**

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Chen, Shih-Yuan[2] *see* **Chuang, Po-Jen et al.**, **2005e:68006**

Chen, William Y. C. (*with* Li, Xue-liang; Wang, Chao[2]; Zhang, Xiaoyan) The minimum all-ones problem for trees. (English summary) **2005b:68125**

— (*with* Li, Xue-liang; Zheng, Jie[1]) Matrix method for linear sequential dynamical systems on digraphs. (English summary) **2005g:37029**

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Cheriyan, Joseph (*with* Karloff, Howard; Rabani, Yuval) Approximating directed multicuts. (English summary) **2005m:05103**

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— (*with* Frieze, Alan; Vera, Juan-Carlos) Random deletion in a scale-free random graph process. (English summary) **2005k:05214**

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— *see also* **Lau, Lap Chi**, **2005i:05187**

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— (*with* Halldórsson, Magnús M.; Lingas, Andrzej; Nilsson, Johan) Approximation algorithms for optimization problems in graphs with superlogarithmic treewidth. (English summary) **2005k:68232**

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Darvishi, Mohammad Taghi Euler number and complete graphs. (English summary)

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De Beule, Jan (*with* Metsch, Klaus) Small point sets that meet all generators of $Q(2n, p)$, $p > 3$ prime. (English summary) **2005c:51012**

Delhommé, Christian Automaticité des ordinaux et des graphes homogènes. (English and French summaries) [Automaticity of ordinals and of homogeneous graphs] **2005b:03093**

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— (*with* Hajiaghayi, Mohammad Taghi; Thilikos, Dimitris M.) The bidimensional theory of bounded-genus graphs. (English summary) **2005m:05207**

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— (*with* Hajiaghayi, Mohammad Taghi; Nishimura, Naomi; Ragde, Prabhakar; Thilikos, Dimitris M.) Approximation algorithms for classes of graphs excluding single-crossing graphs as minors. (English summary) **2005e:05131**

— (*with* Hajiaghayi, Mohammad Taghi; Thilikos, Dimitris M.) Exponential speedup of fixed-parameter algorithms for classes of graphs excluding single-crossing graphs as minors. (English summary) **2005i:68031**

— *see also* **Biedl, Therese et al.**, **2005c:68283** *and* **Pătraşcu, Mihai**, **2005j:68024**

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— (*with* de Werra, Dominique; Monnot, Jérôme; Paschos, Vangelis Th.) Weighted node coloring: when stable sets are expensive. (English summary) (*see* **2005a:68015**)

— (*with* Paschos, Vangelis Th.) On-line vertex-covering. (English summary) **2005j:05085**

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— (*with* Italiano, Giuseppe F.) A new approach to dynamic all pairs shortest paths. (English summary) **2005k:05225**

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— *see also* **Litow, Bruce**, **2005k:68043**

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Díaz, Josep (*with* Serna, Maria José; Thilikos, Dimitris M.) The complexity of restrictive H-coloring. (English summary) (*see* **2005a:68015**)

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— (*with* Serna, Maria José; Wormald, Nicholas C.) Computation of the bisection width for random d-regular graphs. (English summary) (*see* **2005d:68010**)

— (*with* Serna, Maria José; Thilikos, Dimitris M.) The restrictive H-coloring problem. (English summary) **2005i:05062**

Didimo, Walter (*with* Pizzonia, Maurizio) Upward embeddings and orientations of undirected planar graphs. (English summary) **2005h:05054**

— *see also* **Di Giacomo, Emilio et al.**, **2005k:05077**

Di Giacomo, Emilio (*with* Didimo, Walter; Liotta, Giuseppe; Wismath, Stephen K.) Curve-constrained drawings of planar graphs. (English summary) **2005k:05077**

Diks, Krzysztof (*with* Kowalik, Łukasz; Kurowski, Maciej) A new 3-color criterion for planar graphs. (English summary) (*see* **2005a:68015**)

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— *see also* **Volgenant, A.**, **2005g:05085**

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— (*with* Krauthgamer, Robert; Nissim, Kobbi) Approximating the minimum bisection size (extended abstract). (*see* **2005i:68003**)
Fellows, Michael R. Blow-ups, win/win's, and crown rules: some new directions in *FPT*. (English summary) (*see* **2005b:05002**)
— *see also* **Alber, Jochen et al., 2005m:68093**; **(2005a:68002)** *and* **Ellis, John A. et al., (2005a:68002)**
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— *see also* **Alber, Jochen et al., (2005a:68007)**
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— *see also* **Broersma, H. J. et al., 2005c:05094**; **Demaine, Erik D. et al., 2005c:68091** *and* **Golovach, Petr A. et al., 2005g:91049**
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— *see also* **Barrière, Lali et al., (2005b:05002)**
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— *see also* **Skulrattanakulchai, San, 2005a:05204**
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— *see also* **Bonichon, Nicolas et al., (2005b:68025)**
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— *see also* **Dyer, Martin et al., 2005f:68056**
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— *see also* **Di Giacomo, Emilio et al.**, **2005k:05077**
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Mutzel, Petra (*with* Jünger, Michael) Advances in graph drawing. Special issue on selected papers from the Ninth International Symposium on Graph Drawing, GD 2001: guest editors' foreword.
Nagamochi, Hiroshi (*with* Okada, Kohei) Polynomial time 2-approximation algorithms for the minmax subtree cover problem. (English summary) **2005d:68154**
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Panholzer, Alois The distribution of the size of the ancestor-tree and of the induced spanning subtree for random trees. (English summary) **2005d:60015**
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Panigrahy, Rina *see* **Motwani, Rajeev et al., (2005i:68003)**
Papadimitriou, Christos H. *see* **Mihail, Milena, 2005b:05203**
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Parente, Mimmo *see* **Ferrante, Alessandro, 2005k:68234**
Parhami, Behrooz (*with* Kwai, Ding-Ming) Comparing four classes of torus-based parallel architectures: network parameters and communication performance. (English summary) **2005g:68006**
Park, Chong-Dae (*with* Chwa, Kyung-Yong) Hamiltonian properties on the class of hypercube-like networks. (English summary) **2005a:05133**
Park, Jung-Heum (*with* Kim, Hee-Chul) Fault-Hamiltonicity of product graph to path and cycle. (English summary) (*see* **2005a:05002**)
Park, Sang-Min *see* **Gudmundsson, Joachim et al., (2005d:68005)**

Parks, Dolores A. *see* **Hedetniemi, Sandra M. et al.**, 2005f:05058
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Paterson, Mike *see* **Goldberg, Leslie Ann et al.**, 2005a:68088
Pătraşcu, Mihai (*with* Demaine, Erik D.) Lower bounds for dynamic connectivity. (English summary) 2005j:68024
Paul, Christophe *see* **Gavoille, Cyril**, 2005i:05163; (2005c:68003) *and* **Habib, Michel**, 2005j:05087
Paulusma, Daniël *see* **Levin, Asaf et al.**, 2005c:68098
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Penso, Lucia D. (*with* Barbosa, Valmir C.) A distributed algorithm to find k-dominating sets. (English summary) 2005d:05116
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Pettie, Seth On the comparison-addition complexity of all-pairs shortest paths. (English summary) (*see* 2005b:68004)
— (*with* Ramachandran, Vijaya) An optimal minimum spanning tree algorithm. (English summary) 2005m:68100
— (*with* Sanders, Peter) A simpler linear time $2/3 - \varepsilon$ approximation for maximum weight matching. (English summary) 2005e:68265
— A new approach to all-pairs shortest paths on real-weighted graphs. (English summary) 2005b:05210
Pfender, Florian *see* **Chen, Guantao et al.**, 2005m:05122
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Rahman, Mohammad Sohel (*with* Kaykobad, Mohammad) Independence number and degree bounded spanning tree. (English summary)
— (*with* Kaykobad, Mohammad) Complexities of some interesting problems on spanning trees. (English summary) 2005k:68096
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Ramnath, Sarnath Forewarned is fore-armed: dynamic digraph connectivity with lookahead speeds up a static clustering algorithm. (English summary) (*see* 2005a:68002)
Randerath, Bert (*with* Schiermeyer, Ingo) 3-colorability $\in \mathcal{P}$ for P_6-free graphs. (English summary) 2005b:05098
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(Reingold, Edward M.) *see* **Akkerman, Thorsten et al.**, 2005b:68117
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Rozenberg, Grzegorz *see* **Ehrenfeucht, Andrzej et al.**, 2005d:05074
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Safra, Shmuel *see* **Hazan, Elad et al.**, 2005c:68095
Saha, Anita (*with* Pal, Madhumangal; Pal, Tapan K.) An optimal parallel algorithm for solving all-pairs shortest paths problem on circular-arc graphs. (English summary) 2005g:90158
Salavatipour, Mohammad R. A polynomial time algorithm for strong edge coloring of partial k-trees. (English summary) 2005c:05088
— A $(1+\varepsilon)$-approximation algorithm for partitioning hypergraphs using a new algorithmic version of the Lovász local lemma. (English summary) 2005b:05212
Salman, A. N. M. (*with* Broersma, H. J.; Baskoro, Edy Tri) Spanning 2-connected subgraphs in alphabet graphs, special classes of grid graphs. (English summary) 2005c:05146
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Shahrokhi, Farhad (*with* Sýkora, Ondrej; Székely, László A.; Vrt'o, Imrich) Bounds for convex crossing numbers. (English summary) (*see* 2005a:05002)
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Shi, Zhengnan (*with* Goddard, Wayne; Hedetniemi, Stephen T.) An anonymous self-stabilizing algorithm for 1-maximal independent set in trees. (English summary) 2005a:68026
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Siegel, Alan On universal classes of extremely random constant-time hash functions. (English summary) 2005e:68277
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Skulrattanakulchai, San Δ-list vertex coloring in linear time. (English summary) (*see* 2005a:68002)
— Acyclic colorings of subcubic graphs. (English summary) 2005e:05056
— (*with* Gabow, Harold N.) Coloring algorithms on subcubic graphs. (English summary) 2005a:05204
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Šparl, Petra (*with* Žerovnik, Janez) 2-local 5/4-competitive algorithm for multicoloring triangle-free hexagonal graphs. (English summary) 2005a:68238
Speckmann, Bettina *see* **Aichholzer, Oswin et al.**, 2005g:65034
Spencer, Joel H. *see* **Kim, Jeong Han et al.**, 2005k:05218
Spielman, Daniel A. (*with* Teng, Shang-Hua) Nearly-linear time algorithms for graph partitioning, graph sparsification, and solving linear systems. (English summary) 2005i:05188
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Srinivasan, Aravind The value of strong inapproximability results for clique. (*see* 2005i:68003)
— *see also* **Gandhi, Rajiv et al.**, (2005a:68007); (2005b:68008) *and* **Halperin, Eran**, (2005d:68005)

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Stacho, Ladislav (*with* Širáň, Jozef; Zhou, Sanming) Routing balanced communications on Hamilton decomposable networks. (English summary)
— *see also* **Gargano, Luisa et al.**, 2005d:05121 *and* (2005a:68008)
Stamp, Austin E. *see* **Stamp, Mark**
Stamp, Mark (*with* Stamp, Austin E.) Pokémon cards and the shortest common superstring. (English summary)
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Sýkora, Ondrej (*with* Székely, László A.; Vrt'o, Imrich) Two counterexamples in graph drawing. (English summary) 2005a:05072
— *see also* **Shahrokhi, Farhad et al.**, (2005a:05002)
Szeider, Stefan Minimal unsatisfiable formulas with bounded clause-variable difference are fixed-parameter tractable. (English summary) 2005j:68063
Székely, László A. *see* **Sýkora, Ondrej et al.**, 2005a:05072 *and* **Shahrokhi, Farhad et al.**, (2005a:05002)
Szymańska, E. *see* **Czygrinow, Andrzej et al.**, 2005e:68252
Tada, Akio (*with* Migita, Masahiro; Nakamura, Ryozo) Parallel topological sorting algorithm. (Japanese. English and Japanese summaries) 2005a:68231
Takki-Chebihi, Nadia (*with* Tokuyama, Takeshi) Enumerating global roundings of an outerplanar graph. (English summary) 2005e:05070
Talwar, Kunal *see* **Fakcharoenphol, Jittat et al.**, 2005c:05163 *and* 2005h:05056
Tan, Guo-zhen (*with* Han, Xiaojun; Gao, Wen[1]) Network-tree model and shortest path algorithm. (English summary) (*see* 2005g:00014)
Tan, Jimmy J. M. *see* **Tsai, Chang-Hsiung et al.**, 2005b:05138; **Li, Tseng-Kuei et al.**, 2005e:05085 *and* **Hsu, Hong-Chun et al.**, 2005k:68012
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Tang, Chang Jie *see* **Chen, An Long et al.**
Tang, Shyue-Ming (*with* Wang, Yue-Li; Leu, Yung-Ho) Optimal independent spanning trees on hypercubes. (English summary) 2005e:05139
Tantau, Till *see* **Nickelsen, Arfst**, (2005a:68012)
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Ta-Shma, Amnon (*with* Zucherman, David) Extractor codes. (English summary) (*see* 2005j:68008)
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Tholey, Torsten A dynamic data structure for maintaining disjoint paths information in digraphs. (English summary) 2005d:68027
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Thorup, Mikkel (*with* Zwick, Uri) Approximate distance oracles. (English summary) (*see* 2005j:68008)
— *see also* **Karger, David R. et al.**, 2005d:68153
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— *see also* **Bouchitté, V. et al.**, 2005b:05071 *and* **Kratsch, Dieter et al.**, 2005g:05142
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Tóth, Géza[1] *see* **Pach, János et al.**, (2005a:68014)
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Tsai, Chang-Hsiung (*with* Tan, Jimmy J. M.; Hsu, Lih-Hsing) The super-connected property of recursive circulant graphs. (English summary) 2005b:05138
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Tsioutsiouliklis, Kostas *see* **Flake, Gary William et al.**, 2005m:05210
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Uehara, Ryuhei (*with* Toda, Seinosuke; Nagoya, Takayuki) Graph isomorphism completeness for chordal bipartite graphs and strongly chordal graphs. (English summary) 2005h:05137
— *see also* **Brandstädt, Andreas et al.**, (2005b:05002)
Vaccaro, Ugo *see* **Gargano, Luisa et al.**, 2005d:05121 *and* (2005a:68008)
Valiente Feruglio, Gabriel A new simple algorithm for the maximum-weight independent set problem on circle graphs. (English summary) (*see* 2005c:68004)
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Vanherpe, Jean-Marie Clique-width of partner-limited graphs. (English summary) 2005a:05174
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Verbitskiĭ, O. V. A note on the approximability of the dense subgraph problem. (English and Russian summaries) 2005k:05229
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Vikas, Narayan Connected and loosely connected list homomorphisms. (English summary) (*see* 2005a:68015)
— Computational complexity of compaction to irreflexive cycles. (English summary) 2005f:05063
— Compaction, retraction, and constraint satisfaction. (English summary) 2005c:68112
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Volgenant, A. (*with* Duin, C. W.) On Steiner versions of (bi)connectivity in network problems. (English summary) 2005g:05085
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Vu Duc Thi (*with* Nguyen Hoang Son) Some problems related to keys and the Boyce-Codd normal form. (English summary) 2005b:68083
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Wang, Lei (*with* Lin, Ya Ping; Chen, Zhi Ping; Wen, Xue) Topology and routing algorithms of 2-D torus/double-loops connected Petersen graph network. (Chinese English and Chinese summaries)
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Wanka, Rolf Any load-balancing regimen for evolving tree computations on circulant graphs is asymptotically optimal. (English summary) (*see* 2005a:68015)
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Weil, Pascal On the logical definability of certain graph and poset languages. (English summary) 2005e:03088
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— *see also* **Hsiao, Hung Kuei, 2005e:68199**
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Zhang, Kaizhong *see* **Ilie, Lucian et al., 2005a:68167** *and* **(2005a:68012)**
Zhao, Yu-Kuang A note of prefix n-primitive words. (English summary) **2005j:68085**

Items with secondary classifications in 68R15

Adamczewski, Boris Répartition des suites $(n\alpha)_{n\in\mathbb{N}}$ et substitutions. [Distribution of the sequences $(n\alpha)_{n\in\mathbb{N}}$ and substitutions] **2005f:11158**
Alber, Jochen (*with* Gramm, Jens; Guo, Jiong; Niedermeier, Rolf) Computing the similarity of two sequences with nested arc annotations. (English summary) **2005b:68118**
Allouche, Jean-Paul (*with* Shallit, Jeffrey O.; Skordev, Gencho) Self-generating sets integers with missing blocks, and substitutions. (English summary) **2005k:11052**
Ambrož, P. (*with* Frougny, Christiane; Masáková, Zuzana; Pelantová, Edita) Arithmetics on number systems with irrational bases. (English summary) **2005h:11019**
(Apostolico, Alberto) *see* **Combinatorial pattern matching, 2005a:68009**
Barbé, A. (*with* von Haeseler, F.) Correlation functions of higher-dimensional automatic sequences. (English summary) **2005h:11050**
Barcucci, Elena (*with* Bélanger, Luc; Brlek, Srečko) On Tribonacci sequences. (English summary) **2005h:11028**
Bélanger, Luc *see* **Barcucci, Elena et al., 2005h:11028**
Bergeron-Brlek, Anouk (*with* Brlek, Srečko; Lacasse, Annie; Provençal, Xavier) Patterns in smooth tilings. (English summary) (*see* **2005c:68010**)
Berment, Vincent *see* **Del Vigna, Claude, 2005c:68132**
Brlek, Srečko (*with* Mendès France, Michel; Robson, J. M.; Rubey, Martin) Cantorian tableaux and permanents. (English summary) **2005k:05028**
— *see also* **Barcucci, Elena et al., 2005h:11028** *and* **Bergeron-Brlek, Anouk et al., (2005c:68010)**
Buls, Jānis Machine invariant classes. (English summary) (*see* **2005c:68010**)
Chemillier, Marc Synchronization of musical words. (English summary) **2005d:68075**
Chen, Zhi-Zhong (*with* Grigni, Michelangelo; Papadimitriou, Christos H.) Map graphs. (English summary) **2005m:05067**
Cooper, Joshua N. (*with* Graham, Ronald L.) Generalized de Bruijn cycles. (English summary) **2005b:05005**
D'Alessandro, Flavio (*with* Varricchio, Stefano) Well quasi-orders and context-free grammars. (English summary) **2005j:68074**
Del Vigna, Claude (*with* Berment, Vincent) Ambiguïtés irréductibles dans les monoïdes de mots. (English and French summaries) [Irreducible ambiguities in word monoids] **2005c:68132**
Do Long Van *see* **Kieu Van Hung et al., 2005i:94023**
Dömösi, Pál (*with* Horváth, Géza; Ito, Masami[1]) A small hierarchy of languages consisting of non-primitive words. (English summary) **2005a:68116**
Duval, Jean-Pierre (*with* Kolpakov, R. M.; Kucherov, G. A.; Lecroq, Thierry; Lefebvre, Arnaud) Linear-time computation of local periods. (English summary) **2005c:68137**

de Falco, Diego (*with* Goldwurm, Massimiliano; Lonati, Violetta) Pattern statistics in bicomponent stochastic models. (English summary) (*see* **2005c:68010**)
Ferenczi, Sébastien (*with* Holton, Charles; Zamboni, Luca Q.) Combinatorics of three-interval exchanges. (English summary) (*see* **2005a:68007**)
Fischler, Stéphane Spectres pour l'approximation d'un nombre réel et de son carré. (English and French summaries) [Spectra for approximating a real number and its square] **2005j:11052**
Flajolet, Philippe (*with* Guivarc'h, Yves; Szpankowski, Wojciech; Vallée, Brigitte) Hidden pattern statistics. (English summary) (*see* **2005a:68007**)
Frougny, Christiane (*with* Masáková, Zuzana; Pelantová, Edita) Complexity of infinite words associated with beta-expansions. (English summary) **2005b:11027a**
— (*with* Masáková, Zuzana; Pelantová, Edita) Corrigendum: "Complexity of infinite words associated with beta-expansions" [Theor. Inform. Appl. **38** (2004), no. 2, 163–185; MR2060775 (2005b:11027a)]. (English summary) **2005b:11027b**
— *see also* **Ambrož, P. et al., 2005h:11019**
Gao, Zhicheng (*with* Wormald, Nicholas C.) Asymptotic normality determined by high moments, and submap counts of random maps. (English summary) **2005m:60044**
Gąsieniec, Leszek (*with* Kolpakov, R. M.; Potapov, Igor) Space efficient search for maximal repetitions. (English summary) (*see* **2005c:68010**)
— (*with* Kolpakov, R. M.; Potapov, Igor) Space efficient search for maximal repetitions. (English summary) **2005m:68241**
Goldwurm, Massimiliano *see* **de Falco, Diego et al., (2005c:68010)**
Graham, Ronald L. *see* **Cooper, Joshua N., 2005b:05005**
Gramm, Jens *see* **Alber, Jochen et al., 2005b:68118**
Grigni, Michelangelo *see* **Chen, Zhi-Zhong et al., 2005m:05067**
Guivarc'h, Yves *see* **Flajolet, Philippe et al., (2005a:68007)**
Guo, Jiong *see* **Alber, Jochen et al., 2005b:68118**
von Haeseler, F. *see* **Barbé, A., 2005h:11050**
(Harju, Tero) *see* **Proceedings: WORDS'03, 2005c:68010**
Holton, Charles *see* **Ferenczi, Sébastien et al., (2005a:68007)**
Honkala, Juha On infinite HD0L words having sparse letters. (English summary) **2005a:68119**
Horváth, Géza *see* **Dömösi, Pál et al., 2005a:68116**
Ito, Masami[1] *see* **Dömösi, Pál et al., 2005a:68116**
Janson, Svante (*with* Lonardi, Stefano; Szpankowski, Wojciech) On average sequence complexity. (English summary) **2005e:68041**
Kamae, Teturo (*with* Yu-Mei, Xue) Two dimensional word with $2k$ maximal pattern complexity. **2005c:37014**
Karhumäki, Juhani (*with* Latteux, Michel; Petre, Ion) The commutation with codes and ternary sets of words. (English summary) **2005c:68148**
— *see also* **Proceedings: WORDS'03, 2005c:68010**
Keränen, Veikko On abelian square-free DT0L-languages over 4 letters. (English summary) (*see* **2005c:68010**)
Kieu Van Hung (*with* Phan Trung Huy; Do Long Van) Codes concerning roots of words. (English summary) **2005i:94023**
Klette, Reinhard (*with* Rosenfeld, Azriel) Digital straightness—a review. (English summary) **2005a:68212**
Kolpakov, R. M. *see* **Duval, Jean-Pierre et al., 2005c:68137; Gąsieniec, Leszek et al., 2005m:68241** *and* **(2005c:68010)**
Korže, Danilo (*with* Vesel, Aleksander) $L(2,1)$-labeling of strong products of cycles.
Kucherov, G. A. *see* **Duval, Jean-Pierre et al., 2005c:68137**
Lacasse, Annie *see* **Bergeron-Brlek, Anouk et al., (2005c:68010)**
Latteux, Michel *see* **Karhumäki, Juhani et al., 2005c:68148**
Leck, Uwe Nonexistence of a Kruskal-Katona type theorem for subword orders. (English summary) **2005d:06004**
Lecroq, Thierry *see* **Duval, Jean-Pierre et al., 2005c:68137**
Lefebvre, Arnaud *see* **Duval, Jean-Pierre et al., 2005c:68137**
Lenz, Daniel Hierarchical structures in Sturmian dynamical systems. (English summary) **2005g:37015**
Leupold, Peter On some properties of context-free languages related to primitive words. (English summary) (*see* **2005c:68010**)
Lonardi, Stefano *see* **Janson, Svante et al., 2005e:68041**
Lonati, Violetta *see* **de Falco, Diego et al., (2005c:68010)**
Marcus, Solomon Quasiperiodic infinite words. (English summary)
Masáková, Zuzana *see* **Frougny, Christiane et al., 2005b:11027a; 2005b:11027b** *and* **Ambrož, P. et al., 2005h:11019**
Mendès France, Michel *see* **Brlek, Srečko et al., 2005k:05028**
Nakamura, Masataka Characterizations of polygreedoids and poly-antimatroids by greedy algorithms. (English summary) **2005j:90111**
Niedermeier, Rolf *see* **Alber, Jochen et al., 2005b:68118**
O'Bryant, Kevin Sturmian words and the permutation that orders fractional parts. (English summary) **2005c:05005**
Papadimitriou, Christos H. *see* **Chen, Zhi-Zhong et al., 2005m:05067**
Pelantová, Edita *see* **Frougny, Christiane et al., 2005b:11027a; 2005b:11027b** *and* **Ambrož, P. et al., 2005h:11019**
Petre, Ion *see* **Karhumäki, Juhani et al., 2005c:68148**
Phan Trung Huy *see* **Kieu Van Hung et al., 2005i:94023**
Potapov, Igor *see* **Gąsieniec, Leszek et al., 2005m:68241** *and* **(2005c:68010)**
Provençal, Xavier *see* **Bergeron-Brlek, Anouk et al., (2005c:68010)**
Robertson, Aaron Restricted permutations from Catalan to Fine and back. (English summary) **2005d:05008**
Robson, J. M. *see* **Brlek, Srečko et al., 2005k:05028**
Rosenfeld, Azriel *see* **Klette, Reinhard, 2005a:68212**
Rubey, Martin *see* **Brlek, Srečko et al., 2005k:05028**
Shallit, Jeffrey O. Formal languages and number theory. (English summary) **2005d:11035**
— *see also* **Allouche, Jean-Paul et al., 2005k:11052**
Silva, Pedro V. An application of first-order logic to the study of recognizable languages. (English summary) **2005g:03053**
Skordev, Gencho *see* **Allouche, Jean-Paul et al., 2005k:11052**
Szpankowski, Wojciech *see* **Janson, Svante et al., 2005e:68041** *and* **Flajolet, Philippe et al., (2005a:68007)**
(Takeda, Masayuki) *see* **Combinatorial pattern matching, 2005a:68009**
Tan, Bo[2] (*with* Wen, Zhi-Xiong; Zhang, Yi Ping) The structure of invertible substitutions on a three-letter alphabet. (English summary) **2005f:20094**
Vallée, Brigitte *see* **Flajolet, Philippe et al., (2005a:68007)**
Varricchio, Stefano *see* **D'Alessandro, Flavio, 2005j:68074**
Vesel, Aleksander *see* **Korže, Danilo**
Wen, Zhi-Xiong *see* **Tan, Bo[2] et al., 2005f:20094**
Wormald, Nicholas C. *see* **Gao, Zhicheng, 2005m:60044**
Yu-Mei, Xue *see* **Kamae, Teturo, 2005c:37014**
Zamboni, Luca Q. *see* **Ferenczi, Sébastien et al., (2005a:68007)**
Zhang, Yi Ping *see* **Tan, Bo[2] et al., 2005f:20094**

Items listed otherwise than by author

Combinatorial pattern matching ★ Combinatorial pattern matching. **2005a:68009**
Fukuoka ★ Combinatorial pattern matching. **2005a:68009**
Lecture Notes in Computer Science ★ Combinatorial pattern matching. **2005a:68009**
Proceedings:
WORDS'03 ★ Proceedings of WORDS'03. **2005c:68010**
Turku ★ Proceedings of WORDS'03. **2005c:68010**

68R99 None of the above, but in this section

Achlioptas, Dimitris (*with* Peres, Yuval) The threshold for random k-SAT is $2^k \log 2 - O(k)$. **2005g:68137**
Peres, Yuval *see* **Achlioptas, Dimitris, 2005g:68137**

Items with secondary classifications in 68R99

Creignou, Nadia (*with* Daudé, Hervé) Coarse and sharp transitions for random generalized satisfiability problems. (English summary) **2005g:68051**
Daudé, Hervé *see* **Creignou, Nadia, 2005g:68051**
Dey, Partha Pratim Exploring invariant linear codes through generators and centralizers. (English summary) **2005i:94017**
Dietz, Paul F. (*with* Seiferas, Joel I.; Zhang, Ju) A tight lower bound for online monotonic list labeling. (English summary) **2005m:68045**
Doerr, Benjamin Typical rounding problems. (English summary) **2005b:11119**
Ésik, Zoltán (*with* Németh, Zoltán L.) Algebraic and graph-theoretic properties of infinite n-posets. (English summary) **2005m:68123**
Goles Ch., Eric (*with* Latapy, Matthieu; Magnien, Clémence; Morvan, Michel; Phan, Ha Duong) Sandpile models and lattices: a comprehensive survey. (English summary) **2005h:05013**
Latapy, Matthieu *see* **Goles Ch., Eric et al., 2005h:05013**
Magnien, Clémence *see* **Goles Ch., Eric et al., 2005h:05013**
Morvan, Michel *see* **Goles Ch., Eric et al., 2005h:05013**
Németh, Zoltán L. *see* **Ésik, Zoltán, 2005m:68123**
Phan, Ha Duong *see* **Goles Ch., Eric et al., 2005h:05013**
Seiferas, Joel I. *see* **Dietz, Paul F. et al., 2005m:68045**
Zhang, Ju *see* **Dietz, Paul F. et al., 2005m:68045**

68Txx Artificial intelligence

Items with secondary classifications in 68Txx

(Chaib-draa, Brahim) *see* **Advances in artificial intelligence, 2005f:68004**
(Xiang, Yang[1]) *see* **Advances in artificial intelligence, 2005f:68004**

Items listed otherwise than by author

Advances in artificial intelligence ★ Advances in artificial intelligence. **2005f:68004**
Halifax, NS ★ Advances in artificial intelligence. **2005f:68004**
Lecture Notes in Computer Science ★ Advances in artificial intelligence. **2005f:68004**
Proceedings:
Conference on Artificial Intelligence (AAAI-04), 19th National ★ Proceedings: Nineteenth National Conference on Artificial Intelligence (AAAI-04), and Sixteenth Innovative Applications of Artificial Intelligence Conference (IAAI-04). **2005j:68007**
Innovative Applications of Artificial Intelligence Conference (IAAI-04), 16th ★ Proceedings: Nineteenth National Conference on Artificial Intelligence (AAAI-04), and Sixteenth Innovative Applications of Artificial Intelligence Conference (IAAI-04). **2005j:68007**
San Jose, CA ★ Proceedings: Nineteenth National Conference on Artificial Intelligence (AAAI-04), and Sixteenth Innovative Applications of Artificial Intelligence Conference (IAAI-04). **2005j:68007**

68T01 General

Arkoudas, Konstantine *see* **Bringsjord, Selmer, 2005b:68222**
Bringsjord, Selmer (*with* Arkoudas, Konstantine) The modal argument for hypercomputing minds. (English summary) **2005b:68222**
de Bruijn, N. G. A mathematical model for biological memory and consciousness. (*see* **2005d:03006**)
Dobrev, Dimiter A definition of artificial intelligence. (English summary)
Feigenbaum, Edward A. Some challenges and grand challenges for computational intelligence.
Kugel, Peter Toward a theory of intelligence. (English summary) **2005b:68223**
Polger, Thomas W. Neural machinery and realization. (English summary)
Rabinovich, Z. L. On natural mechanisms of thinking and computer intelligence. (Russian. English and Ukrainian summaries)
Singh, Push Examining the Society of Mind. (English summary)
Skokowski, Paul Structural content: a naturalistic approach to implicit belief. (English summary) **2005b:68224**

Items with secondary classifications in 68T01

Khrennikov, Andrei Yu. ★ Information dynamics in cognitive, psychological, social and anomalous phenomena. **2005b:91005**

Piccinini, Gualtiero Functionalism, computationalism, and mental states. (English summary) **2005i:01007**

68T05 Learning and adaptive systems [see also 68Q32, 91E40]

Abe, Shigeo *see* **Kaieda, Kenichi, 2005f:68126**

Abellán, Joaquín (*with* Moral, Serafín) Upper entropy of credal sets. Applications to credal classification. (English summary) **2005m:68179**

Aggelis, Vasilios *see* **Tsakonas, Athanasios et al.**

Alsberg, Bjørn K. *see* **King, Ross D. et al.**

Anthony, Martin Some connections between learning and optimization. (English summary) **2005e:68205**

Arenas, Maribel García *see* **Rivas, V. M. et al.**

Arpe, Jan (*with* Reischuk, Rüdiger) Robust inference of relevant attributes. (English summary) (*see* **2005a:68004**)

Bao, Pei Ming Learning capability in fuzzy Petri nets based on BP net. (Chinese. English and Chinese summaries)

Beck, Sebastian (*with* Mikut, R.; Jäkel, J.) A cost-sensitive learning algorithm for fuzzy rule-based classifiers. (English summary) **2005k:68169**

Begleiter, Ron (*with* El-Yaniv, Ran; Yona, Golan) On prediction using variable order Markov models. (English summary) **2005j:68086**

Bělohlávek, Radim *see* **Tagliaferri, Roberto et al., (2005b:00019)**

Berhane, Indrias (*with* Srinivasan, Cidambi) Stability of neural networks for slightly perturbed training data sets. (English summary) **2005g:68138**

Bienvenüe, Alexis (*with* François, Olivier) Global convergence for evolution strategies in spherical problems: some simple proofs and difficulties. (English summary) **2005g:68139**

Blake, Andrew P. *see* **Romdhani, Sami et al.**

Blockeel, Hendrik *see* **Santos Costa, Vítor et al.**

Blum, Avrim (*with* Kalai, Adam; Wasserman, Hal) Noise-tolerant learning, the parity problem, and the statistical query model. (*see* **2005i:68003**)

Boginski, Vladimir L. (*with* Pardalos, Panos M.; Vazacopoulos, Alkis) Network-based models and algorithms in data mining and knowledge discovery. (*see* **2005h:90001**)

Bologna, Guido Is it worth generating rules from neural network ensembles? (English summary)

Born, Stefan (*with* Schmidt-Thieme, Lars) Optimal discretization of quantitative attributes for association rules. (English summary) (*see* **2005i:62003**)

Borodin, Allan (*with* El-Yaniv, Ran; Gogan, Vincent) Can we learn to beat the best stock. (English summary)

Boros, Endre (*with* Menkov, Vladimir) Exact and approximate discrete optimization algorithms for finding useful disjunctions of categorical predicates in data analysis. (English summary) **2005e:68206**

Botta, Marco (*with* Giordana, Attilio; Saitta, Lorenza; Sebag, Michèle) Relational learning as search in a critical region. (English summary)

Brafman, Ronen I. (*with* Tennenholtz, Moshe) Learning to coordinate efficiently: a model-based approach. (English summary) **2005h:68129**

— (*with* Tennenholtz, Moshe) Efficient learning equilibrium. (English summary) **2005h:68130**

Bratko, Ivan *see* **Šuc, Dorian et al., 2005e:68209**

Brefeld, Ulf (*with* Geibel, Peter; Wysotzki, Fritz) Support vector machines with example dependent costs. (English summary) (*see* **2005c:68008**)

Breimer, Eric A. (*with* Goldberg, Mark K.; Lim, Darren T.) A learning algorithm for the longest common subsequence problem. (English summary)

(Bull, Larry) *see* **Applications of learning classifier systems, 2005m:68182**

Camacho, Rui *see* **Santos Costa, Vítor et al.**

Cao, Li Ping *see* **Liu, Yi Guang et al.**

Castellano, J. G. *see* **Rivas, V. M. et al.**

Castelo, Robert (*with* Perlman, Michael D.) Learning essential graph Markov models from data. (English summary)

— (*with* Kočka, Tomáš) On inclusion-driven learning of Bayesian networks. (English summary)

Castillo, P. A. *see* **Rivas, V. M. et al.**

Ceccatto, H. A. *see* **Granitto, P. M. et al.**

Cesa-Bianchi, Nicolò (*with* Conconi, Alex; Gentile, Claudio) On the generalization ability of on-line learning algorithms. (English summary) **2005g:68140**

Chakraborty, Uday K. *see* **Konar, Amit et al.**

Chatpatanasiri, Ratthachat (*with* Kijsirikul, Boonserm) Learning first-order Bayesian networks. (English summary) (*see* **2005f:68004**)

Chawla, Deepak (*with* Li, Lin[3]; Scott, Stephen D.) On approximating weighted sums with exponentially many terms. (English summary) **2005i:68070**

Cheema, Tanweer Ahmad *see* **Jalil, A. et al.**

Chen, An Long (*with* Tang, Chang Jie; Tao, Hong Cai; Yuan, Chang An; Xie, Fang Jun) An improved algorithm based on maximum clique and FP-tree for mining association rules. (Chinese. English and Chinese summaries)

— *see also* **Yuan, Chang An et al.**

Chen, Cheng-Hung *see* **Lin, Cheng-Jian**

Chen, Hao *see* **Jin, Hai et al., (2005b:94052)**

Chen, Ming-Tsung (*with* Tseng, Shian-Shyong) A genetic algorithm for multicast routing under delay constraint in WDM network with different light splitting. (English summary)

Chen, Shu-Heng (*with* Duffy, John; Yeh, Chia-Hsuan) Equilibrium selection via adaptation: using genetic programming to model learning in a coordination game. (English summary) **2005h:68131**

Chen, Yu-Ju (*with* Huang, Tsung-Chuan; Hwang, Rey-Chue) An effective learning of neural network by using RFBP learning algorithm. (English summary)

Cheng, Ke *see* **Song, Feng Xi et al.**

Cheng, Wen-Chang *see* **Lin, Chin-Teng et al.**

Ciaramella, Angelo *see* **Tagliaferri, Roberto et al., (2005b:00019)**

Cicchello, Orlando (*with* Kremer, Stefan C.) Inducing grammars from sparse data sets: a survey of algorithms and results. (English summary)

Clarke, Bertrand Comparing Bayes model averaging and stacking when model approximation error cannot be ignored. (English summary)

Conan-Guez, Brieuc (*with* Rossi, Fabrice) Phoneme discrimination with functional multi-layer perceptrons. (English summary) (*see* **2005i:62003**)

— *see also* **El Golli, Aïcha et al., (2005i:62003)**

Conconi, Alex *see* **Cesa-Bianchi, Nicolò et al., 2005g:68140**

Cornelis, C. *see* **De Cock, Martine et al.**

Costa, Jose A. (*with* Hero, A. O., III) Geodesic entropic graphs for dimension and entropy estimation in manifold learning. (English summary) **2005d:68118**

Coste, François (*with* Fredouille, Daniel) Unambiguous automata inference by means of state-merging methods. (English summary) (*see* **2005c:68008**)

Cristianini, Nello *see* **Shawe-Taylor, John et al., (2005a:68003)** *and* **De Bie, Tijl et al., (2005a:68004)**

Czogała, Tomasz *see* **Łęski, Jacek M., 2005m:68181**

Damaschke, Peter Approximate location of relevant variables under the crossover distribution. (English summary) **2005f:68125**

De Bie, Tijl (*with* Momma, Michinari; Cristianini, Nello) Efficiently learning the metric with side-information. (English summary) (*see* **2005a:68004**)

Debnath, R. (*with* Takahide, N.; Takahashi, Haruhisa) A decision based one-against-one method for multi-class support vector machine. (English summary)

De Cock, Martine (*with* Cornelis, C.; Kerre, Etienne E.) Elicitation of fuzzy association rules from positive and negative examples. (English summary)

Delivopoulos, E. (*with* Theocharis, J. B.) A modified PNN algorithm with optimal PD modeling using the orthogonal least squares method. (English summary)

Demoen, Bart *see* **Santos Costa, Vítor et al.**

Deng, Guang Iterative learning algorithms for linear Gaussian observation models (English summary) **2005d:68119**

Di Nola, Antonio *see* **Tagliaferri, Roberto et al., (2005b:00019)**

Dong, Xiang Jun (*with* Wang, Shu Jing; Song, Han Tao; Lu, Yu Chang) Study on negative association rules. (Chinese. English and Chinese summaries)

Doshi, Shailesh *see* **Oates, Tim et al., (2005b:68016)**

Dounias, Georgios *see* **Tsakonas, Athanasios et al.**

Dourado, António *see* **Paiva, Rui Pedro**

Duffy, John *see* **Chen, Shu-Heng et al., 2005h:68131**

Dumitrescu, Dan (*with* Járai-Szabó, Ferenc; Simon, Károly[2]) Link-cell method for evolutionary multi-modal optimization application in dynamic evolutionary clustering. (English summary)

— *see also* **Gog, Anca**

Düntsch, Ivo *see* **Wang, Hui[6] et al., 2005a:68172**

Dzemyda, Gintautas Animated visual analysis of extremal problems. (English summary) (*see* **2005c:90002**)

El Golli, Aïcha (*with* Conan-Guez, Brieuc; Rossi, Fabrice) A self-organizing map for dissimilarity data. (English summary) (*see* **2005i:62003**)

El-Yaniv, Ran *see* **Begleiter, Ron et al., 2005j:68086** *and* **Borodin, Allan et al.**

Engel, Yaakov (*with* Mannor, Shie; Meir, Ron) The kernel recursive least-squares algorithm. (English summary)

Ernst, Damien (*with* Geurts, Pierre; Wehenkel, Louis) Iteratively extending time horizon reinforcement learning. (English summary) (*see* **2005c:68008**)

Fang, Chen *see* **Li, Yuan[2] et al.**

Fang, Liu *see* **Liu, Jing[1] et al.**

Fonarëv, A. B. *see* **Kryzhanovskiĭ, B. V. et al., 2005f:68127**

Forster, Jürgen (*with* Simon, Hans Ulrich) On the smallest possible dimension and the largest possible margin of linear arrangements representing given concept classes uniform distribution. (English summary) (*see* **2005a:68003**)

François, Olivier *see* **Bienvenüe, Alexis, 2005g:68139**

Fredouille, Daniel *see* **Coste, François, (2005c:68008)**

Freund, Yoav (*with* Iyer, Raj; Schapire, Robert E.; Singer, Yoram) An efficient boosting algorithm for combining preferences. (English summary)

Geche, F. E. (*with* Kotsovs'kiĭ, V. M.) Neuron elements over the ring $\mathbb{Z}_{p^m}$. (Ukrainian. English summary)

— *see also* **Gritsyk, V. V.**

Gediga, Günther *see* **Wang, Hui[6] et al., 2005a:68172**

Geibel, Peter *see* **Brefeld, Ulf et al., (2005c:68008)**

Gentile, Claudio *see* **Cesa-Bianchi, Nicolò et al., 2005g:68140**

Geurts, Pierre *see* **Ernst, Damien et al., (2005c:68008)**

Ghosh, Ashish (*with* Nath, Bhabesh) Multi-objective rule mining using genetic algorithms. (English summary)

Ghosh, Joydeep *see* **Zhong, Shi**

Giel, Oliver (*with* Wegener, Ingo) Evolutionary algorithms and the maximum matching problem. (English summary) **2005c:68239**

Giordana, Attilio *see* **Botta, Marco et al.**

Gog, Anca (*with* Dumitrescu, Dan) A new approach of genetic chromodynamics. (English summary)

Gogan, Vincent *see* **Borodin, Allan et al.**

Goldberg, Mark K. *see* **Breimer, Eric A. et al.**

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Gritsyk, V. V. (*with* Geche, F. E.) Realization of Boolean and multivalued logic functions on neuron elements. (Ukrainian. English summary)

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Xu, Li Xin (*with* Liu, Wan Quan) A new recurrent neural network adaptive approach for host-gate way rate control protocol within intranets using ATM ABR service. (English summary)
Xu, Shao Hua (*with* He, Xin Gui) Learning algorithms of process neural networks based on orthogonal function basis expansion. (Chinese. English and Chinese summaries)
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Yuan, Chang An (*with* Tang, Chang Jie; Zuo, Jie; Xie, Fang Jun; Chen, An Long; Hu, Jian Jun) Function mining based on Gene expression programming—convergency analysis and remnant-guided evolution algorithm. (Chinese. English and Chinese summaries)
— *see also* **Chen, An Long et al.**
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Zhang, Harry *see* **Ling, Charles X. et al.**, (**2005f:68004**)
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Zhang, Tai Yi *see* **Lu, Cong De et al.**
Zhang, Xian *see* **Tao, Qing et al.**
Zhong, Shi (*with* Ghosh, Joydeep) A unified framework for model-based clustering. (English summary)
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Zhou, Chun Guang *see* **Huang, Yan Xin et al.**
Zhou, Ji Xiang[2] *see* **Zhou, Yu Ren et al.**
Zhou, Yu Ren (*with* Yue, Xi Shun; Zhou, Ji Xiang[2]) The convergence rate and efficiency of evolutionary algorithms. (Chinese. English and Chinese summaries)
Zou, Shu Xue *see* **Huang, Yan Xin et al.**
Zuo, Jie *see* **Yuan, Chang An et al.**

Items listed otherwise than by author

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Items with secondary classifications in 68T05

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Abney, Steven Understanding the Yarowsky algorithm. (English summary) **2005d:68132**
Adem, Jan (*with* Gochet, Willy) Aggregating classifiers with mathematical programming. (English summary)
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Akutsu, Tatsuya (*with* Bannai, Hideo; Miyano, Satoru; Ott, Sascha) On the complexity of deriving position specific score matrices from examples. (English summary) (*see* **2005a:68009**)
— (*with* Ott, Sascha) Inferring a union of halfspaces from examples. (English summary) (*see* **2005a:68012**)
— *see also* **Fukagawa, Daiji**, **2005f:68179**
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Alexandre, Joël *see* **Pelfrêne, Johann et al.**, (**2005a:68010**)
Alidaee, Bahram *see* **Kochenberger, Gary A. et al.**, (**2005f:68006**)
Allison, Lloyd Models for machine learning and data mining in functional programming. (English summary)
Al-Rabadi, Anas N. (*with* Perkowski, Marek; Zwick, Martin) A comparison of modified reconstructability analysis and Ashenhurst-Curtis decomposition of Boolean functions. (English summary) **2005e:94304**
Altenberg, Lee Open problems in the spectral analysis of evolutionary dynamics. (English summary) (*see* **2005f:68006**)
(Álvarez Sánchez, Jóse Ramón) *see* **Artificial neural nets problem solving methods**, **2005a:68006** *and* **Computational methods in neural modeling**, **2005a:68011**
Ando, Tomohiro (*with* Imoto, Seiya; Konishi, Sadanori) Adaptive learning machines for nonlinear classification and Bayesian information criteria. (English summary)
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Balabanov, A. S. Reconstruction of the structures of systems of probabilistic dependencies from data. The apparatus of genotypes of variables. (Russian. English, Russian and Ukrainian summaries) **2005h:68142**
— Correction to: "Reconstruction of the structures of systems of probabilistic dependencies from data. The apparatus of genotypes of variables" [Problemy Upravlen. Inform. **2003**, no. 2, 91–99, 157–158; MR2111996 (2005h:68142)]. (Russian)
Baldi, Pierre A computational theory of surprise. (English summary) **2005d:94048**
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Bandyopadhyay, Sanghamitra An efficient technique for superfamily classification of amino acid sequences: feature extraction, fuzzy clustering and prototype selection. (English summary)
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Basalyga, Gleb (*with* Rattray, Magnus) Statistical dynamics of on-line independent component analysis. (English summary)
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Besombes, Jérôme (*with* Marion, Jean-Yves) Learning reversible categorial grammars from structures. (English summary) (*see* **2005d:68009**)
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— (*with* Jabłoński, Dariusz; Kedzierski, Marek) Properties and applications of weakly nonlinear neurons. (English summary) **2005c:37039**
— (*with* Ombach, Jerzy) Shadowing property in analysis of neural networks dynamics. (English summary) **2005b:37039**
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— (*with* Kumar, Vijay[3]; Rudra, Atri; Wu, Felix) Online learning in online auctions. (English summary) **2005e:68054**
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Caramia, Massimiliano (*with* Felici, G.; Pezzoli, A.) Improving search results with data mining in a thematic search engine. (English summary)
Case, John (*with* Jain, Sanjay[1]; Reischuk, Rüdiger; Stephan, Frank; Zeugmann, Thomas) Learning a subclass of regular patterns in polynomial time. (English summary) (*see* **2005a:68004**)
Cavory, G. (*with* Dupas, R.; Goncalves, Gilles) A genetic approach to solving the problem of cyclic job shop scheduling with linear constraints. (English summary)
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Costa, Andre Ants, stochastic optimisation and reinforcement learning. (English summary) **2005m:90071**
Cotik, V. (*with* Romero Zaliz, R.; Zwir, I.) A hybrid promoter analysis methodology for prokaryotic genomes. (English summary)
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— (*with* Frisch, Alan M.) Introduction to the special issue on inductive logic programming.
Damaschke, Peter Fast perfect phylogeny haplotype inference. (English summary) **2005b:92031**
Darwiche, Adnan *see* **Park, James D., 2005d:68127**
Dasgupta, Sanjoy (*with* Pavlov, Elan; Singer, Yoram) An efficient PAC algorithm for reconstructing a mixture of lines. (English summary) (*see* **2005a:68003**)
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Finkelstein, Lev (*with* Markovitch, Shaul; Rivlin, Ehud) Optimal schedules for parallelizing anytime algorithms: the case of shared resources. (English summary) **2005h:68167**
Flach, Peter (*with* Lavrač, Nada) Learning in clausal logic: a perspective on inductive logic programming. (English summary) (*see* **2005f:68005a**)
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Fox, Richard Directed molecular evolution by machine learning and the influence of nonlinear interactions. (English summary)
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Goncalves, Gilles *see* **Cavory, G. et al.**
Gopalsamy, K. Stability of artificial neural networks with impulses. (English summary) **2005d:92004**
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Gupta, Nidhi[2] (*with* Singh, Manu Pratap) Estimation of software reliability with execution time model using the pattern mapping technique of artificial neural network. (English summary)
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He, Jun (*with* Yao, Xin) Time complexity analysis of an evolutionary algorithm for finding nearly maximum cardinality matching. (English summary)
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de la Higuera, Colin (*with* Oncina, Jose) Identification with probability one of stochastic deterministic linear languages. (English summary) (*see* **2005a:68004**)
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Huang, De-Shuang (*with* Horace, H. S. Ip; Law, Ken Chee Keung; Chi, Zheru; Wong, H. S.) A new partitioning neural network model for recursively finding arbitrary roots of higher order arbitrary polynomials. (English summary) **2005i:65073**
Huang, He (*with* Cao, Jin De; Qu, Yuzhong) Global robust stability of delayed neural networks with a class of general activation functions. (English summary) **2005i:82056**
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— (*with* O'Donnell, Ryan; Servedio, Rocco A.) Learning intersections and thresholds of halfspaces. (English summary) **2005g:68060**

Klose, Aljoscha (*with* Kruse, Rudolf) Information mining with semi-supervised learning. (*see* 2005i:62007)

Kochenberger, Gary A. (*with* Glover, Fred W.; Alidaee, Bahram; Rego, César) Solving combinatorial optimization problems via reformulation and adaptive memory metaheuristics. (English summary) (*see* **2005f:68006**)

Koivisto, Mikko (*with* Rastas, Pasi; Ukkonen, Esko) Recombination systems. (English summary) **2005h:68078**

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— (*with* Omlin, Christian W.) Getting to grips with support vector machines: application. (English summary)

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Kumar, Vijay[3] *see* **Blum, Avrim et al.**, 2005e:68054

Kumazawa, I. *see* **Fanany, M. I.**

Kurz, Mary E. (*with* Askin, Ronald G.) Scheduling flexible flow lines with sequence-dependent setup times. (English summary) **2005a:90069**

Kuttler, Christina *see* **Hadeler, Karl P. et al.**, 2005a:92017

Kuznetsov, Sergei O. Complexity of learning in concept lattices from positive and negative examples. (English summary) **2005d:68068**

Kwong, Sam *see* **Wang, Hanli et al.**

Laguna, Manuel *see* **Martí, Rafael et al.**, (2005h:90007)

Lai, J. (*with* Moraga, Claudio; Meyer zu Bexten, E.) An improved genetic algorithm for the travelling-salesman problem. (English summary)

Lallich, Stéphane *see* **Zighed, Djamel A. et al.**

Larose, Daniel T. ★ Discovering knowledge in data.

Larrañaga, Pedro *see* **Blanco, Rosa et al.**

Laskov, Pavel *see* **Mika, Sebastian et al.**, (2005g:62004)

Lavrač, Nada *see* **Machine learning: ECML 2003**, 2005c:68008 *and* **Flach, Peter**, (2005f:68005a)

Law, Ken Chee Keung *see* **Huang, De-Shuang et al.**, 2005i:65073

Lawry, Jonathan (*with* Hall, J. W.; Bovey, R.) Fusion of expert and learnt knowledge in a framework of fuzzy labels. (English summary) **2005a:68194**

— *see also* **Rodríguez, Inés González et al.**

Lee, Jay H. *see* **Dubey, Anshul et al.**

Lenaerts, Tom *see* **Tuyls, Karl et al.**, 2005a:91017

Lencses, Rastislav *see* **Vojtáš, Peter et al.**

Lesser, Victor *see* **Becker, Raphen et al.**, 2005k:68178

Levinson, Stephen E. ★ Mathematical models for speech technology. **2005j:68001**

Li, Chun Lian (*with* Wang, Xi Cheng; Zhao, Jin Cheng; Wu, Jin Ying) An information-entropy-based multi-population genetic algorithm. (Chinese. English and Chinese summaries)

Li, Cong *see* **Li, Hang**

Li, Hang (*with* Li, Cong) Word translation disambiguation using bilingual bootstrapping. (English summary)

Li, Jian Zhong *see* **Zhang, Zhao Gong et al.**

Li, WanQing *see* **Randall, Jonathan et al.**

Li, Zhou Jun *see* **Yan, Yue Jin et al.**

Liang, Yan Chun *see* **Yang, Xiao Wei[1] et al.**

Lim, Cheng-Chew *see* **Chew, Hong-Gunn et al.**, (2005m:90002)

Lin, Cheng-Jian (*with* Ho, Wen-Hao) An asymmetry-similarity-measure-based neural fuzzy inference system. (English summary)

Lin, Chih-Jen *see* **Chen, Pai-Hsuen et al.**

Lisi, Francesca A. (*with* Esposito, Floriana) Efficient evaluation of candidate hypotheses in $\mathcal{AL}$-log. (English summary) (*see* **2005m:68010**)

Liu, Gui-Rong *see* **Yang, Xiao Wei[1] et al.**

Liu, Jing[1] *see* **Zhong, Wei Cai et al.**

Liu, Xiao Hua[3] *see* **Zhang, Li Biao et al.**

Liu, Yufeng (*with* Shen, Xiaotong; Doss, Hani) Multicategory ψ-learning and support vector machine: computational tools. (English summary) **2005k:62160**

Logeswaran, Rajasvaran Fast two-stage Lempel-Ziv lossless numeric telemetry data compression using a neural network predictor. (English summary)

Lu, Fangyan (*with* Sun, Hong Wei[1]) Positive definite dot product kernels in learning theory. (English summary) **2005k:42023**

Lu, Fletcher (*with* Schuurmans, Dale) Model-based least-squares policy evaluation. (English summary) (*see* **2005f:68004**)

Lu, Wenlian (*with* Chen, Tian Ping) Synchronization of coupled connected neural networks with delays. (English summary) **2005g:34194**

— *see also* **Rong, Libin et al.**, 2005f:34217

Lü, Ying Hua *see* **Zhang, Li Biao et al.**

Lucas, Peter J. F. Restricted Bayesian network structure learning. (English summary)

Lugosi, Gábor (*with* Vayatis, Nicolas) On the Bayes-risk consistency of regularized boosting methods. (English summary) **2005d:62107**

— *see also* **Discussion of "Process consistency for AdaBoost", "On the Bayes-risk consistency of regularized boosting methods" and "Statistical behavior and consistency of classification methods based on convex risk minimization"**, 2005d:62109 *and* **Blanchard, Gilles et al.**, 2005k:62156

Luna, Francisco *see* **Alba, Enrique et al.**, 2005d:90145

Ma, Ming *see* **Zhang, Li Biao et al.**

Ma, Zhi Qiang *see* **Zhang, Li Biao et al.**

Maass, Wolfgang (*with* Natschlaeger, Thomas; Markram, Henry) Computational models for generic cortical microcircuits. (*see* **2005h:92008**)

— (*with* Markram, Henry) On the computational power of circuits of spiking neurons. (English summary) **2005f:92007**

Macready, William G. Problems in optimization. (English summary) (*see* **2005f:68006**)

Maggini, Marco *see* **Diligenti, Michelangelo et al.**, 2005c:91109

Mali, Kalyani (*with* Mitra, Sushmita) Symbolic classification, clustering and fuzzy radial basis function network. (English summary)

Malzahn, Dörthe (*with* Opper, Manfred) An approximate analytical approach to resampling averages. (English summary)

Man, K. F. *see* **Wang, Hanli et al.**

Manderick, Bernard *see* **Tuyls, Karl et al.**, 2005a:91017

Mandic, Danilo P. (*with* Goh, Su Lee; Hanna, Andrew) Data-reusing algorithm for complex-valued adaptive filters. (*see* **2005b:00018**)

Mannor, Shie (*with* Meir, Ron; Zhang, Tong[2]) Greedy algorithms for classification—consistency, convergence rates, and adaptivity. (English summary) **2005f:68133**

Marion, Jean-Yves *see* **Besombes, Jérôme**, (2005d:68009)

Markovitch, Shaul *see* **Finkelstein, Lev et al.**, 2005b:68167

Markram, Henry *see* **Maass, Wolfgang et al.**, 2005f:92007 *and* (2005h:92008)

Martí, Rafael (*with* Laguna, Manuel; Campos, Vicente) Scatter search vs. genetic algorithms. (English summary) (*see* **2005h:90007**)

Martínez, Servet A. *see* **Hart, Andrew G.**, 2005c:68144

Massad, Eduardo *see* **Rocha, Armando Freitas et al.**, 2005h:92007

Matsumoto, Satoshi *see* **Suzuki, Yusuke[2] et al.**, (2005a:68004)

McAllester, David (*with* Ortiz, Luis) Concentration inequalities for the missing mass and for histogram rule error. (English summary) **2005j:62133**

(McMorris, Frederick R.) *see* **Classification, clustering, and data mining applications**, 2005i:62003

Medina Moreno, Jesús (*with* Mérida-Casermeiro, E.; Ojeda-Aciego, Manuel) A neural implementation of multi-adjoint logic programming. (English summary) **2005f:68015**

Meir, Ron (*with* Zhang, Tong[2]) Generalization error bounds for Bayesian mixture algorithms. (English summary) **2005b:68055**

— *see also* **Mannor, Shie et al.**, 2005f:68133

Mendelson, Shahar On the performance of kernel classes. (English summary) **2005i:62062**

(Menon, Anil) *see* **Frontiers of evolutionary computation**, 2005f:68006

Mérida-Casermeiro, E. *see* **Medina Moreno, Jesús et al.**, 2005f:68015

Mesterharm, Chris Tracking linear-threshold concepts with Winnow. (English summary) **2005b:68156**

Meyer zu Bexten, E. *see* **Lai, J. et al.**

Mika, Sebastian (*with* Schäfer, Christin; Laskov, Pavel; Tax, D. M. J.; Müller, Klaus-Robert) Support vector machines. (*see* **2005g:62004**)

Miller, Wendy *see* **Rickard, John T. et al.**

(Mira, José) *see* **Artificial neural nets problem solving methods**, 2005a:68006 *and* **Computational methods in neural modeling**, 2005a:68011

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Miyahara, Tetsuhiro *see* **Suzuki, Yusuke[2] et al.**, (2005a:68004)

Miyano, Satoru *see* **Akutsu, Tatsuya et al.**, (2005a:68009)

Moore, Michelle An accurate parallel genetic algorithm to schedule tasks on a cluster. (English summary) **2005a:90203**

Moraga, Claudio *see* **Lai, J. et al.**

Morato, Laura M. (*with* Siri, Paola) Stochastic learning of fractal images. (English summary) **2005f:94012**

Moreira, Andrés Genetic algorithms for the imitation of genomic styles in protein backtranslation. (English summary)

Morrison, Ronald W. ★ Designing evolutionary algorithms for dynamic environments. **2005b:90005**

Moscato, Pablo *see* **Cotta, Carlos**, (2005f:68006)

Muhlenbach, Fabrice *see* **Zighed, Djamel A. et al.**

Mühlenbein, Heinz Towards a theory of organisms and evolving automata. (English summary) (*see* **2005f:68006**)

Müller, Klaus-Robert *see* **Mika, Sebastian et al.**, (2005g:62004)

Myasnikov, Aleksei G. *see* **Myasnikov, Alexei D.**, 2005g:20055

Myasnikov, Alexei D. (*with* Myasnikov, Aleksei G.) Whitehead method and genetic algorithms. (English summary) **2005g:20055**

Natschlaeger, Thomas *see* **Maass, Wolfgang et al.**, (2005h:92008)

Ncube, Israel (*with* Campbell, Sue Ann; Vrscay, E. R.) Stationary densities and the stochastic approximation of a certain class of random algorithms. (English summary) **2005c:92001**

Nebro, Antonio J. *see* **Alba, Enrique et al.**, 2005d:90145

Nederhof, Mark-Jan A general technique to train language models on language models. (English summary) **2005m:68206**

Nikolakopoulos, Athanassios *see* **Sarimveis, Haralambos**

Nouretdinov, Ilia (*with* V'yugin, Vladimir V.; Gammerman, Alex) Transductive confidence machine is universal. (English summary) **2005f:62147**

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(Numao, Masayuki) *see* **Algorithmic learning theory, 2005a:68003**
Nussbaum, Alexander K. *see* **Hadeler, Karl P. et al., 2005a:92017**
O'Donnell, Ryan (*with* Servedio, Rocco A.) New degree bounds for polynomial threshold functions. (English summary) **2005k:68104**
— *see also* **Klivans, Adam R. et al., 2005g:68060**
Ogawa, Takeshi *see* **Hirata, Kouichi et al., (2005m:68010)**
Oğuz, Ceyda (*with* Fung, Yu-Fai; Ercan, M. Fikret; Qi, Xiangtong) Parallel genetic algorithm for a flow-shop problem with multiprocessor tasks. (English summary) (*see* **2005g:00014**)
Oh, Sung-Kwun (*with* Pedrycz, Witold; Park, Byoung-Jun) Relation-based neurofuzzy networks with evolutionary data granulation. (English summary)
Ojeda-Aciego, Manuel *see* **Medina Moreno, Jesús et al., 2005f:68015**
Ombach, Jerzy *see* **Bielecki, Andrzej, 2005b:37039**
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Opper, Manfred *see* **Malzahn, Dörthe**
Orponen, Pekka *see* **Šíma, Jiří, (2005j:68008)**
Orsenigo, Carlotta (*with* Vercellis, Carlo) Multivariate classification trees based on minimum features discrete support vector machines. (English summary) **2005a:90205**
— (*with* Vercellis, Carlo) Discrete support vector decision trees via tabu search. (English summary)
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Ott, Sascha *see* **Akutsu, Tatsuya et al., (2005a:68012)** *and* **(2005a:68009)**
Paetz, Jürgen (*with* Schneider, Gisbert) A neuro-fuzzy approach to virtual screening in molecular bioinformatics. (English summary)
Pal, Nikhil R. *see* **Pal, Srimanta et al.**
Pal, Srimanta (*with* Pal, Nikhil R.; Datta, Amitava) A multi-layer dynamic neural network for convex-hull computation. (English summary)
Parisi, Giorgio Complexity and intelligence. (English summary) **2005b:68147**
Park, Byoung-Jun *see* **Oh, Sung-Kwun et al.**
Park, James D. (*with* Darwiche, Adnan) A differential semantics for jointree algorithms. (English summary) **2005d:68127**
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Pearson, Ronald K. ★ Mining imperfect data.
Pedrycz, Witold *see* **Oh, Sung-Kwun et al.**; **Ciaramella, Angelo et al.** *and* **Homenda, Wladyslaw**
Pelfrêne, Johann (*with* Abdeddaïm, Saïd; Alexandre, Joël) Extracting approximate patterns (extended abstract). (English summary) (*see* **2005a:68010**)
Pereira, Alfredo, Jr. *see* **Rocha, Armando Freitas et al., 2005h:92007**
Pérez-Cruz, Fernando *see* **Sánchez-Fernández, Matilde et al., 2005c:62102**
Perkowski, Marek *see* **Al-Rabadi, Anas N. et al., 2005e:94304**
Petrakieva, Lina *see* **Gabrys, Bogdan, 2005b:68226**
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Phoha, Vir V. *see* **Iyengar, S. Sitharama et al., 2005d:94034**
Pindur, Roman (*with* Susmaga, Robert; Stefanowski, Jerzy) Hyperplane aggregation of dominance decision rules. (English summary)
Poranen, Timo A simulated annealing algorithm for determining the thickness of a graph. (English summary)
de Prado-Cumplido, Mario *see* **Sánchez-Fernández, Matilde et al., 2005c:62102**
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Qu, Yuzhong *see* **Huang, He et al., 2005i:82056**
Quan, Yong (*with* Yang, Jie[3]) Modified kernel functions by geodesic distance. (English summary)
Raghavan, Vijay K. *see* **Hellerstein, Lisa, 2005m:68107**
Rahman, Syed Atiqur *see* **Jayadeva**
Randall, Jonathan (*with* Guan, Ling; Li, WanQing) A hierarchical neural network model for image analysis. (English summary)
Rastas, Pasi *see* **Koivisto, Mikko et al., 2005h:68078**
Ratsaby, Joel A stochastic gradient descent algorithm for structural risk minimisation. (English summary) **2005h:62171**
Rattray, Magnus *see* **Basalyga, Gleb**
Ray, Oliver (*with* Broda, Krysia; Russo, Alessandra) A hybrid abductive inductive proof procedure. (English summary) **2005h:68017**
Realff, Matthew J. *see* **Dubey, Anshul et al.**
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Reidenbach, Daniel A negative result on inductive inference of extended pattern languages. (English summary) (*see* **2005a:68003**)
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(Resende, Maurício G. C.) *see* **Metaheuristics: computer decision-making, 2005b:90007**
Rickard, John T. (*with* Yager, Ronald R.; Miller, Wendy) Mountain clustering on non-uniform grids using p-trees. (English summary)
Rivlin, Ehud *see* **Finkelstein, Lev et al., 2005h:68167**
Rocha, Armando Freitas (*with* Massad, Eduardo; Pereira, Alfredo, Jr.) ★ The brain: fuzzy arithmetic to quantum computing. **2005h:92007**
Rodríguez, Inés González (*with* Lawry, Jonathan; Baldwin, Jim F.) Induction and fusion of fuzzy prototypes. (English summary)
Romero Zaliz, R. *see* **Cotik, V. et al.**
Rong, Libin (*with* Lu, Wenlian; Chen, Tian Ping) Global exponential stability in Hopfield and bidirectional associative memory neural networks with time delays. (English summary) **2005f:34217**
Roska, Tamás *see* **Török, Levente, 2005g:37173** *and* **Gál, V. et al.**
Roth, Dan *see* **Har-Peled, Sariel et al., (2005a:68003)**
Ruan, Qing (*with* Wang, Yi-qiang) PCA approach to BP learning. (English and Chinese summaries) **2005m:62120**
Rubinstein, Reuven Y. (*with* Kroese, Dirk P.) ★ The cross-entropy method. **2005c:90001**
Rudra, Atri *see* **Blum, Avrim et al., 2005e:68054**
Russo, Alessandra *see* **Ray, Oliver et al., 2005h:68017**
Rutkowski, Leszek ★ Flexible neuro-fuzzy systems. **2005f:68143**
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— New norm type inequalities for linear mappings. (English summary) **2005d:41046**
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Sánchez-Fernández, Matilde (*with* de Prado-Cumplido, Mario; Arenas-García, Jerónimo; Pérez-Cruz, Fernando) SVM multiregression for nonlinear channel estimation in multiple-input multiple-output systems. (English summary) **2005c:62102**
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Schäfer, Christin *see* **Mika, Sebastian et al., (2005g:62004)**
Schlottmann, Frank (*with* Seese, Detlef) Modern heuristics for finance problems: a survey of selected methods and applications. (English summary) (*see* **2005b:91009**)
Schneider, Gisbert *see* **Paetz, Jürgen**
Schölkopf, Bernhard *see* **Chen, Pai-Hsuen et al.**
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Seese, Detlef *see* **Schlottmann, Frank, (2005b:91009)**
Seow, Ming-Jung (*with* Asari, Vijayan K.) Ratio rule for recurrent neural network based associative recall of multilevel patterns. (English summary)
Serafini, T. (*with* Zanghirati, G.; Zanni, L.) Large quadratic programs in training Gaussian support vector machines. (English summary) **2005c:90064**
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— *see also* **Klivans, Adam R. et al., 2005c:68118**; **2005g:68060** *and* **O'Donnell, Ryan, 2005k:68104**
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Shoudai, Takayoshi *see* **Suzuki, Yusuke[2] et al., (2005a:68004)**
Shu, Lei *see* **Yang, Xiao Wei[1] et al.**
Šíma, Jiří (*with* Orponen, Pekka) Computing with continuous-time Liapunov systems. (English summary) (*see* **2005j:68008**)
Singer, Yoram *see* **Dasgupta, Sanjoy et al., (2005a:68003)**
Singh, Manu Pratap *see* **Gupta, Nidhi[2]**
Siri, Paola *see* **Morato, Laura M., 2005f:94012**
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Smale, Stephen (*with* Zhou, Ding-Xuan) Shannon sampling and function reconstruction from point values. **2005b:94022**
— *see also* **Cucker, Felipe et al., 2005b:91192**
(de Sousa, Jorge Pinho) *see* **Metaheuristics: computer decision-making, 2005b:90007**
Stefanowski, Jerzy *see* **Pindur, Roman et al.**
Stephan, Frank *see* **Case, John et al., (2005a:68004)**
Storch, Tobias (*with* Wegener, Ingo) Real royal road functions for constant population size. (English summary) **2005a:90107**
Subbu, Raj (*with* Sanderson, Arthur C.) ★ Network-based distributed planning using coevolutionary algorithms. **2005a:90004**
Sun, Hong Wei[1] *see* **Lu, Fangyan, 2005k:42023**
Susmaga, Robert Reducts and constructs in attribute reduction. (English summary)
— *see also* **Pindur, Roman et al.**
Suzuki, Yusuke[2] (*with* Shoudai, Takayoshi; Matsumoto, Satoshi; Uchida, Tomoyuki; Miyahara, Tetsuhiro) Efficient learning of ordered and unordered tree patterns with contractible variables. (English summary) (*see* **2005a:68004**)
Szörényi, Balázs *see* **Goldsmith, Judy et al., 2005e:68111**
Tagliaferri, Roberto *see* **Ciaramella, Angelo et al.**
Takane, Yoshio (*with* Oshima-Takane, Yuriko) Nonlinear generalized canonical correlation analysis by neural network models. (English summary) (*see* **2005b:62010**)
(Takimoto, Eiji) *see* **Algorithmic learning theory, 2005a:68004**
Tan, Kok Kiong *see* **Zhang, Yi[1], 2005g:37058**
Tan, Mao *see* **Gao, Qigang**
Tang, Yongchuan (*with* Xu, Yang[1]) Application of fuzzy naive Bayes and a real-valued genetic algorithm in identification of fuzzy model. (English summary)
Tax, D. M. J. *see* **Mika, Sebastian et al., (2005g:62004)**
Tesi, Alberto *see* **Forti, Mauro**
(Todorovski, Ljupčo) *see* **Machine learning: ECML 2003, 2005c:68008**
Török, Levente (*with* Roska, Tamás) Stability of multi-layer cellular neural/nonlinear networks. (English summary) **2005g:37173**
Toussaint, Godfried Open problems in geometric methods for instance-based learning. (English summary) (*see* **2005f:52002**)
Troffaes, Matthias C. M. Learning and optimal control of imprecise Markov decision processes by dynamic programming using the imprecise Dirichlet model. (*see* **2005i:62007**)
Tsoularis, A. (*with* Wallace, James) Reinforcement learning for a stochastic automaton modelling predation in stationary model-mimic environments. (English summary) **2005m:92046**
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Turán, György *see* **Goldsmith, Judy et al., 2005e:68111**
Tuyls, Karl (*with* Nowe, Ann; Lenaerts, Tom; Manderick, Bernard) An evolutionary game theoretic perspective on learning in multi-agent systems. (English summary) **2005a:91017**
Uchida, Tomoyuki *see* **Suzuki, Yusuke[2] et al., (2005a:68004)**

Uemura, Jin (*with* Sato, Masako) Compactness and learning of classes of unions of erasing regular pattern languages. (English summary) (*see* **2005a:68003**)
Ukkonen, Esko *see* **Koivisto, Mikko et al., 2005h:68078**
Urfer, W. *see* **Guimarães, G., (2005b:62008)**
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Vempala, Santosh S. (*with* Wang, Grant) A spectral algorithm for learning mixture models. (English summary) **2005e:62098**
— *see also* Dunagan, John, 2005d:68151
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(Viana, Ana) *see* **Metaheuristics: computer decision-making, 2005b:90007**
Vila, María-Amparo *see* **Berzal, Fernando et al.**
Vitkovski, T. (*with* Antchak, A.) Genetic algorithms: a modern tool for searching for quasi-optimal solutions. (Russian. English, Russian and Ukrainian summaries)
Vojtáš, Peter (*with* Horváth, Tomáš; Krajči, Stanislav; Lencses, Rastislav) An ILP model for a monotone graded classification problem. (English summary)
Vorontsov, K. V. Combinatorial bounds for the quality of learning by precedents. (Russian) **2005e:94045**
Vovk, Vladimir G. Asymptotic optimality of transductive confidence machine. (English summary) (*see* **2005a:68003**)
Vrscay, E. R. *see* **Ncube, Israel et al., 2005c:92001**
Vyugin, Mikhail V. (*with* V′yugin, Vladimir V.) Predictive complexity and information. (English summary) **2005m:68108**
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Wang, Ding Wei Colony location algorithm for assignment problems. (English summary) **2005h:90064**
Wang, Grant *see* **Vempala, Santosh S., 2005e:62098**
Wang, Hanli (*with* Kwong, Sam; Jin, Yaochu; Wei, Wei[3]; Man, K. F.) Multi-objective hierarchical genetic algorithm for interpretable fuzzy rule-based knowledge extraction. (English summary)
Wang, Qiang[5] (*with* Ai, Hai-Zhou; Xu, Guang You) Learning-based tracking of complex non-rigid motion. (English summary)
Wang, Shaojun (*with* Schuurmans, Dale) Learning continuous latent variable models with Bregman divergences. (English summary) **2005i:62015**
Wang, Xi Cheng *see* **Li, Chun Lian et al.**
Wang, Yi-qiang *see* **Ruan, Qing, 2005m:62120**
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Watanabe, Keigo (*with* Hashem, M. M. A.) ★ Evolutionary computations. **2005c:93003**
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Wei, Wei[3] *see* **Wang, Hanli et al.**
Wheway, Virginia L. *see* **Davy, Pamela J., (2005a:62014)**
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Wong, H. S. *see* **Huang, De-Shuang et al., 2005i:65073**
Wu, Felix *see* **Blum, Avrim et al., 2005e:68054**
Wu, Jin Ying *see* **Li, Chun Lian et al.**
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Xu, Yang[1] *see* **Tang, Yongchuan**
Xu, Yong Mao *see* **Zhao, Shi Jian, 2005m:62180**
Xue, Ming Zhi (*with* Zhong, Wei Cai; Jiao, Li Cheng) Strong convergence for generalized abstract evolutionary algorithm. (English summary) (*see* **2005i:42002**)
Yager, Ronald R. *see* **Rickard, John T. et al.**
(Yamamoto, Akihiro) *see* **Inductive logic programming, 2005b:68016**
Yan, Yue Jin (*with* Li, Zhou Jun; Chen, Huo Wang) Efficiently mining of maximal frequent item sets based on FP-tree. (Chinese. English and Chinese summaries)
Yan, Zi Zong (*with* Fei, Pu Sheng) Gene reorganization algorithm for TSP. (Chinese. English and Chinese summaries)
Yang, Jie[3] *see* **Quan, Yong**
Yang, Ke New lower bounds for statistical query learning. (English summary) **2005m:68109**
Yang, Xiao Wei[1] (*with* Shu, Lei; Hao, Zhifeng; Liang, Yan Chun; Liu, Gui-Rong; Han, Xu) An extended Lagrangian support vector machine for classifications. (English summary)
Yao, Xin *see* **He, Jun**
Yu, Yuan-Hui (*with* Chang, Chin-Chen) Scenery image segmentation using support vector machines. (English summary)
(Zadeh, Lotfi A.) *see* **Rutkowski, Leszek, 2005f:68143**
Zak, Michail Dynamical networks for information processing. (English summary) **2005g:37034**
Zanghirati, G. *see* **Serafini, T. et al., 2005c:90064**
Zanni, L. *see* **Serafini, T. et al., 2005c:90064**
Železný, Filip Efficiency-conscious propositionalization for relational learning. (English summary)
Zelus, Dominique *see* **Guermeur, Yann et al., 2005k:62158**
Zeugmann, Thomas *see* **Case, John et al., (2005a:68004)**
Zhang, Bo[2] *see* **Zhang, Ling[1], 2005a:68181**
Zhang, Li Biao (*with* Zhou, Chun Guang; Liu, Xiao Hua[3]; Ma, Ming; Lü, Ying Hua; Ma, Zhi Qiang) A novel evolutionary algorithm for solving constrained optimization problems. (Chinese. English and Chinese summaries)
Zhang, Liang (*with* Zhou, Xiang Dong; Zhang, Qi; Shi, Bai Le) A long-term learning-based dynamic user model in image retrieval. (Chinese. English and Chinese summaries)
Zhang, Ling[1] (*with* Zhang, Bo[2]) The quotient space theory of problem solving. (English summary) **2005a:68181**
Zhang, Qi *see* **Zhang, Liang et al.**
Zhang, Tong[2] Statistical behavior and consistency of classification methods based on convex risk minimization. (English summary) **2005d:62108**
— *see also* Discussion of "Process consistency for AdaBoost", "On the Bayes-risk consistency of regularized boosting methods" and "Statistical behavior and consistency of classification methods based on convex risk minimization", 2005d:62109; Mannor, Shie et al., 2005f:68133 *and* **Meir, Ron, 2005h:68055**
Zhang, Yan Qiu *see* **Zhang, Zhao Gong et al.**
Zhang, Yi[4] (*with* Tan, Kok Kiong) ★ Convergence analysis of recurrent neural networks. **2005g:37058**
Zhang, Zhao Gong (*with* Li, Jian Zhong; Zhang, Yan Qiu) Parallel mining algorithm of association rules on massive data. (Chinese. English and Chinese summaries)
Zhao, Hong Yong Existence and global attractivity of almost periodic solution for cellular neural network with distributed delays. (English summary) **2005f:34203**
Zhao, Jin Cheng *see* **Li, Chun Lian et al.**
Zhao, Shi Jian (*with* Xu, Yong Mao) Neural network implementation of the PLS algorithm. (Chinese. English and Chinese summaries) **2005m:62180**
Zhong, Wei Cai (*with* Liu, Jing[1]; Fang, Liu; Jiao, Li Cheng) Combinatorial optimization using multi-agent evolutionary algorithm. (Chinese. English and Chinese summaries)
— *see also* Xue, Ming Zhi et al., (2005i:42002)
Zhou, Chun Guang *see* **Zhang, Li Biao et al.**
Zhou, Ding-Xuan *see* **Cucker, Felipe et al., 2005b:91192** *and* **Smale, Stephen, 2005b:94022**
Zhou, Xiang Dong *see* **Zhang, Liang et al.**
Zhu, Ji (*with* Hastie, Trevor) Kernel logistic regression and the import vector machine. (English summary)
Zighed, Djamel A. (*with* Lallich, Stéphane; Muhlenbach, Fabrice) A statistical approach to class separability. (English summary)
Zilberstein, Shlomo *see* **Becker, Raphen et al., 2005k:68178**
Zimak, Dav *see* **Har-Peled, Sariel et al., (2005a:68003)**
Zwick, Martin *see* **Al-Rabadi, Anas N. et al., 2005e:94304**
Zwir, I. *see* **Cotik, V. et al.**

Items listed otherwise than by author

Algorithmic learning theory ★ Algorithmic learning theory. **2005a:68003**
— ★ Algorithmic learning theory. **2005a:68004**
Alicante ★ Computational neuroscience. **2005j:92002**
Applied intelligent systems ★ Applied intelligent systems. **2005j:68004**
Artificial neural nets problem solving methods ★ Artificial neural nets problem solving methods. **2005a:68006**
Cavtat ★ Machine learning: ECML 2003. **2005c:68008**
Chicago, IL ★ Classification, clustering, and data mining applications. **2005i:62003**
Classification, clustering, and data mining applications ★ Classification, clustering, and data mining applications. **2005i:62003**
Complex-valued neural networks ★ Complex-valued neural networks. **2005b:00018**
Computational methods in neural modeling ★ Computational methods in neural modeling. **2005a:68011**
Computational neuroscience ★ Computational neuroscience. **2005j:92002**
Discussion of "Process consistency for AdaBoost", "On the Bayes-risk consistency of regularized boosting methods" and "Statistical behavior and consistency of classification methods based on convex risk minimization" Discussion of: "Process consistency for AdaBoost" [Ann. Statist. **32** (2004), no. 1, 13–29; MR2050999 (2005d:62106)] by W. Jiang, "On the Bayes-risk consistency of regularized boosting methods" [ibid., 30–55; MR2051000 (2005d:62107)] by G. Lugosi and N. Vayatis, and "Statistical behavior and consistency of classification methods based on convex risk minimization" [ibid., 56–85; MR2051001 (2005d:62108)] by T. Zhang. **2005d:62109**
Frontiers of evolutionary computation ★ Frontiers of evolutionary computation. **2005f:68006**
Handbook of brain theory and neural networks ★ The handbook of brain theory and neural networks. **2005m:68002**
Inductive logic programming ★ Inductive logic programming. **2005b:68016**
Lecture Notes in Computer Science ★ Algorithmic learning theory. **2005a:68003**
— ★ Algorithmic learning theory. **2005a:68004**
— ★ Artificial neural nets problem solving methods. **2005a:68006**
— ★ Computational methods in neural modeling. **2005a:68011**
— ★ Inductive logic programming. **2005b:68016**
— ★ Machine learning: ECML 2003. **2005c:68008**
Lübeck ★ Algorithmic learning theory. **2005a:68003**
Machine learning: ECML 2003 ★ Machine learning: ECML 2003. **2005c:68008**
Maó ★ Artificial neural nets problem solving methods. **2005a:68006**
— ★ Computational methods in neural modeling. **2005a:68011**
Metaheuristics: computer decision-making ★ Metaheuristics: computer decision-making. **2005b:90007**
Porto ★ Metaheuristics: computer decision-making. **2005b:90007**
Sapporo ★ Algorithmic learning theory. **2005a:68004**
Szeged ★ Inductive logic programming. **2005b:68016**

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Aliev, R. A. (*with* Guirimov, B. G.; Aliev, Rashad R.) A neuro-fuzzy graphic object classifier with modified distance measure estimator. (English summary)
Aliev, Rashad R. *see* **Aliev, R. A. et al.**
Arimura, Hiroki Efficient text mining with optimized pattern discovery. (English summary) (*see* **2005a:68009**)
Bellegarda, Jerome R. Latent semantic language modeling for speech recognition. (English summary) (*see* **2005c:68009**)
Bereznev, V. A. (*with* Volkov, A. Yu.; Cherednichenko, I. N.) On the choice of parameters in an algorithm for recognizing separate handwritten text. (Russian. Russian summary) (*see* **2005i:00008**)
Bershteĭn, L. S. (*with* Kovalev, S. M.) Fuzzy temporal models of acoustic processes in intelligent systems for automatic speech recognition. (Russian. Russian summary)
Berzal, Fernando (*with* Cubero, Juan-Carlos; Marín, Nicolás; Sánchez, Daniel) Building multi-way decision trees with numerical attributes. (English summary)

Bielecki, Andrzej Mathematical principles of artificial neural networks. (Polish) **2005f:68132**
Bloch, Isabelle *see* **Colliot, Olivier et al., 2005c:68241**
Bondarenko, A. V. (*with* Galaktionov, V. A.; Gerasimenko, A. A.; Ëlkin, S. V.; Musatov, A. M.; Klyshinskiĭ, È. S.; Slezkina, O. Yu.) Automation of the transcription process for the problem of multilanguage interpretation of proper names. (Russian. Russian summary)
Brijs, Tom *see* **Janssens, Davy et al.**
Caulfield, H. John (*with* Karavolos, Angelo; Ludman, Jacques E.) Improving optical Fourier pattern recognition by accommodating the missing information. (English summary) **2005a:68173**
Cendrowska, Dorota Strict maximum separability of two finite sets: an algorithmic approach. (English summary) **2005m:68183**
Cesar, Roberto M. *see* **Colliot, Olivier et al., 2005c:68241**
Chekhovich, Yu. V. *see* **Rudakov, K. V., 2005f:68134**
Chen, Guo Qing *see* **Yan, Peng[2]**
Chen, Huo Wang *see* **Yan, Yue Jin et al.**
Cherednichenko, I. N. *see* **Bereznev, V. A. et al., (2005i:00008)**
Chrissikopoulos, Vassilis *see* **Poulos, Marios et al.**
Cidotă, Marina Discriminative learning between the states of the hidden Markov model for speech recognition. (English summary)
Colliot, Olivier (*with* Tuzikov, A. V.; Cesar, Roberto M.; Bloch, Isabelle) Approximate reflectional symmetries of fuzzy objects with an application in model-based object recognition. (English summary) **2005c:68241**
Csirik, János *see* **Tóth, László[1] et al.**
Cubero, Juan-Carlos *see* **Berzal, Fernando et al.**
Daoudi, Khalid *see* **Deviren, Murat**
Deng, Li[1] Switching dynamic system models for speech articulation and acoustics. (English summary) (*see* **2005c:68009**)
Deviren, Murat (*with* Daoudi, Khalid) Continuous speech recognition using dynamic Bayesian networks: a fast decoding algorithm. (English summary)
Domenach, Florent (*with* Leclerc, Bruno) Closure systems, implicational systems, overhanging relations and the case of hierarchical classification. (English summary) **2005a:68174**
Dvoenko, S. D. (*with* Kopylov, A. V.; Mottl′, V. V.) Pattern recognition problems in arrays of interconnected objects. Statement of the recognition problem and basic assumptions. (Russian. Russian summary) **2005d:68120**
Dyukova, E. V. On the complexity of the realization of discrete (logical) recognition procedures. (Russian. Russian summary) **2005e:68211**
Ëlkin, S. V. *see* **Bondarenko, A. V. et al.**
El-Qawasmeh, Eyas Word prediction using a clustered optimal binary search tree. (English summary) **2005g:68144**
Evangelou, Agelos *see* **Poulos, Marios et al.**
Fateman, Richard *see* **Yang, Michael, (2005i:68002)**
Fu, Camel Y. *see* **Shih, Frank Y. et al.**
Gabrys, Bogdan (*with* Petrakieva, Lina) Combining labelled and unlabelled data in the design of pattern classification systems. (English summary) **2005b:68226**
Galaktionov, V. A. *see* **Bondarenko, A. V. et al.**
Georgiacodis, Fotis *see* **Poulos, Marios et al.**
Gerasimenko, A. A. *see* **Bondarenko, A. V. et al.**
Guirimov, B. G. *see* **Aliev, R. A. et al.**
Hasegawa-Johnson, Mark *see* **Omar, Mohamed Kamal, 2005j:68088**
Heckel, Martin (*with* Zendulka, Jaroslav) Data mining and its use in texture analysis. (English summary)
Hong, Pengyu (*with* Huang, Thomas S.) Spatial pattern discovery by learning a probabilistic parametric model from multiple attributed relational graphs. (English summary) **2005c:68242**
Huang, Guo Shun (*with* Liu, Yun Sheng) Similarity measures between vague sets and their application to pattern recognition. (Chinese. English and Chinese summaries)
Huang, Thomas S. *see* **Hong, Pengyu, 2005c:68242**
Janssens, Davy (*with* Wets, Geert; Brijs, Tom; Vanhoof, Koen) Adapting the CBA algorithm by means of intensity of implication. (English summary)
Karavolos, Angelo *see* **Caulfield, H. John et al., 2005a:68173**
Klyshinskiĭ, È. S. *see* **Bondarenko, A. V. et al.**
Kocsor, András *see* **Tóth, László[1] et al.**
Kolokolov, A. S. Preliminary processing and segmentation of a speech signal in a frequency domain for speech recognition. (Russian. Russian summary)
Kopylov, A. V. *see* **Dvoenko, S. D. et al., 2005d:68120**
Kovalev, S. M. *see* **Bershteĭn, L. S.**
Leclerc, Bruno *see* **Domenach, Florent, 2005a:68174**
Lee, R. S. T. (*with* Liu, James Nga-Kwok) ★ Invariant object recognition based on elastic graph matching.
Li, Jian Zhong *see* **Zhang, Zhao Gong et al.**
Li, Juan Zi *see* **Zhang, Kuo et al.**
Li, Zhou Jun *see* **Yan, Yue Jin et al.**
Liu, James Nga-Kwok *see* **Lee, R. S. T.**
Liu, Yun Sheng *see* **Huang, Guo Shun**
Ludman, Jacques E. *see* **Caulfield, H. John et al., 2005a:68173**
Mannor, Shie (*with* Meir, Ron; Zhang, Tong[2]) Greedy algorithms for classification—consistency, convergence rates, and adaptivity. (English summary) **2005f:68133**
Marín, Nicolás *see* **Berzal, Fernando et al.**
Mashtalir, V. P. (*with* Shlyakhov, V. V.) Properties of multi-algebraic systems in comparative recognition problems. (Russian. English and Ukrainian summaries) **2005g:68145**
Meir, Ron *see* **Mannor, Shie et al., 2005f:68133**
Mitoma, Hiroto (*with* Uchida, Seiichi; Sakoe, Hiroaki) Online character recognition using elastic matching and eigen-deformations. (Japanese. English and Japanese summaries)
Mottl′, V. V. *see* **Dvoenko, S. D. et al., 2005d:68120**
Musatov, A. M. *see* **Bondarenko, A. V. et al.**
Nowak, Robert D. *see* **Scott, Clayton**
Omar, Mohamed Kamal (*with* Hasegawa-Johnson, Mark) Model enforcement: a unified feature transformation framework for classification and recognition. (English summary) **2005j:68088**
Petrakieva, Lina *see* **Gabrys, Bogdan, 2005b:68226**
Petry, Frederick E. *see* **Yager, Ronald R.**
Poulos, Marios (*with* Rangoussi, Maria; Chrissikopoulos, Vassilis; Evangelou, Agelos; Georgiacodis, Fotis) Comparative analysis of the computational geometry and neural network classification methods for person identification purposes via the EEG. I. (English summary)
Rangoussi, Maria *see* **Poulos, Marios et al.**
Rudakov, K. V. (*with* Chekhovich, Yu. V.) Criteria for the completeness of models of algorithms and families of decision rules for classification problems with set-theoretic restrictions. (Russian) **2005f:68134**
— (*with* Chekhovich, Yu. V.) Criteria for the completeness of families of correcting operations and models of algorithmic operators for classification problems with set-theoretic restrictions. (Russian)
Sakoe, Hiroaki *see* **Mitoma, Hiroto et al.**
Sánchez, Daniel *see* **Berzal, Fernando et al.**
Scott, Clayton (*with* Nowak, Robert D.) TEMPLAR: a wavelet-based framework for pattern learning and analysis. (English summary)
Shih, Frank Y. (*with* Fu, Camel Y.; Zhang, Kai[3]) Multi-view face identification and pose estimation using B-spline interpolation. (English summary)
Shlyakhov, V. V. *see* **Mashtalir, V. P., 2005g:68145**
Slezkina, O. Yu. *see* **Bondarenko, A. V. et al.**
Tóth, László[1] (*with* Kocsor, András; Csirik, János) On naive Bayes in speech recognition. (English summary)
Toussaint, Godfried Geometric graphs for improving nearest neighbor decision rules. (*see* **2005i:00014**)
Tuzikov, A. V. *see* **Colliot, Olivier et al., 2005c:68241**
Uchida, Seiichi *see* **Mitoma, Hiroto et al.**
Vanhoof, Koen *see* **Janssens, Davy et al.**
Vasil′ev, V. I. The reduction principle in pattern recognition problems. I. (Russian. English and Ukrainian summaries)
— The reduction principle in pattern recognition problems. II. (Russian. English and Ukrainian summaries) **2005m:68184**
Volkov, A. Yu. *see* **Bereznev, V. A. et al., (2005i:00008)**
Wang, Ke Hong *see* **Zhang, Kuo et al.**
Wets, Geert *see* **Janssens, Davy et al.**
Wong, Man Hon *see* **Zhou, Mi[2]**
Wozniak, Michal Case- and rule-based algorithms for the contextual pattern recognition problem. (English summary) (*see* **2005g:65008**)
Xu, Peng[2] *see* **Zhang, Kuo et al.**
Yager, Ronald R. (*with* Petry, Frederick E.) A framework for linguistic relevance feedback in content-based image retrieval using fuzzy logic. (English summary)
Yan, Peng[2] (*with* Chen, Guo Qing) Discovering a cover set of ARsi with hierarchy from quantitative databases. (English summary)
Yan, Yue Jin (*with* Li, Zhou Jun; Chen, Huo Wang) Efficiently mining of maximal frequent item sets based on FP-tree. (Chinese. English and Chinese summaries)
Yang, Michael (*with* Fateman, Richard) Extracting mathematical expressions from Postscript documents. (English summary) (*see* **2005i:68002**)
Zendulka, Jaroslav *see* **Heckel, Martin**
Zhang, Kai[3] *see* **Shih, Frank Y. et al.**
Zhang, Kuo (*with* Xu, Peng[2]; Li, Juan Zi; Wang, Ke Hong) Optimized hierarchy clustering based extraction for document logical structures. (Chinese. English and Chinese summaries)
Zhang, Tong[2] *see* **Mannor, Shie et al., 2005f:68133**
Zhang, Yan Qiu *see* **Zhang, Zhao Gong et al.**
Zhang, Zhao Gong (*with* Li, Jian Zhong; Zhang, Yan Qiu) Parallel mining algorithm of association rules on massive data. (Chinese. English and Chinese summaries)
Zhou, Mi[2] (*with* Wong, Man Hon) A segment-wise time warping method for time scaling searching. (English summary)
Žunić, Joviša Digital partitions encoding. (English summary) (*see* **2005j:68006**)

Items with secondary classifications in 68T10

Abe, Shigeo *see* **Kaieda, Kenichi, 2005f:68126**
Al-Rawi, Mohammed *see* **Yang, Jie[3]**
Anthony, Martin On data classification by iterative linear partitioning. (English summary) **2005e:62094**
(Arabie, Phipps) *see* **Classification, clustering, and data mining applications, 2005i:62003**
Arora, Sanjeev (*with* Khot, Subhash) Fitting algebraic curves to noisy data. (English summary) (*see* **2005i:68004**)
Ayache, Nicholas *see* **Cachier, Pascal, 2005a:68218**
Babak, O. V. On an approach to the optimization of learning problems for pattern recognition based on the method of support vectors. (Russian. English and Ukrainian summaries)
(Banks, David Lane) *see* **Classification, clustering, and data mining applications, 2005i:62003**
Bilmes, Jeffrey A. Graphical models and automatic speech recognition. (English summary) **2005c:68253**
Bober, Miroslaw *see* **Skarbek, Władysław et al., 2005b:62139**
Boginski, Vladimir L. (*with* Pardalos, Panos M.; Vazacopoulos, Alkis) Network-based models and algorithms in data mining and knowledge discovery. (*see* **2005h:90001**)
Bormotov, Dmitry Y. Experimenting with primitive elements in F_2. (English summary) **2005e:20035**
Bribiesca, E. 3D-curve representation by means of a binary chain code. (English summary)
Cachier, Pascal (*with* Ayache, Nicholas) Isotropic energies, filters and splines for vector field regularization. (English summary) **2005a:68218**
Cakmakov, Dusan (*with* Celakoska, Emilija) Estimation of curve similarity using turning functions. (English summary) **2005f:68146**
Cao, Mao Yong (*with* Sun, Nong Liang; Yu, Dao Yin) Polar-radius-invariant-moment for pattern recognition. (Chinese. English and Chinese summaries)
Celakoska, Emilija *see* **Cakmakov, Dusan, 2005f:68146**
Chakraborty, Uday K. *see* **Konar, Amit et al.**

(Chen, Dechang) *see* **Pattern recognition and string matching, 2005b:68003**
Chen, Songcan *see* **Zhang, Daoqiang et al.**
(Cheng, Xiuzhen) *see* **Pattern recognition and string matching, 2005b:68003**
Cormode, Graham (*with* Muthukrishnan, S. Muthu) An improved data stream summary: the Count-Min Sketch and its applications. (English summary) (*see* **2005d:68010**)
Cui, Jian Fu *see* **Li, Yan[6] et al., 2005m:62125**
Diday, Edwin Spatial pyramidal clustering based on a tessellation. (English summary) **2005j:62131**
Eguchi, Shinto Information geometry and statistical pattern recognition. (Japanese) **2005i:62093**
Ergün, Funda (*with* Muthukrishnan, S. Muthu; Şahinalp, Süleyman Cenk) Sublinear methods for detecting periodic trends in data streams. (English summary) (*see* **2005d:68010**)
Faugeras, Olivier (*with* Gomes, Jose; Keriven, Renaud) Computational stereo: a variational method. (English summary) (*see* **2005a:94002**)
Fredriksson, Kimmo (*with* Navarro, Gonzalo; Ukkonen, Esko) Optimal exact and fast approximate two dimensional pattern matching allowing rotations. (English summary) (*see* **2005a:68009**)
Fryc, B. (*with* Pancerz, Krzysztof; Peters, James F., III; Suraj, Zbigniew) On fuzzy reasoning using matrix representation of extended fuzzy Petri nets. (English summary)
(Gaul, Wolfgang) *see* **Classification, clustering, and data mining applications, 2005i:62003**
Ghosh, Joydeep *see* **Zhong, Shi**
Gomes, Jose *see* **Faugeras, Olivier et al., (2005a:94002)**
Grau, Antoni *see* **Staffetti, Ernesto et al., 2005m:68230**
Grauel, A. (*with* Renners, I.; Saavedra, Ernesto) Classification techniques based on methods of computational intelligence. (English summary) (*see* **2005b:62008**)
Grigorescu, Cosmin (*with* Petkov, Nicolai) Distance sets for shape filters and shape recognition. (English summary) **2005f:94008**
Gupta, Anupam (*with* Tardos, Éva) A constant factor approximation algorithm for a class of classification problems. (*see* **2005i:68003**)
Gurov, S. I. Reliability estimation of classification algorithms. I. Introduction to the problem. Point frequency estimates. (English summary)
Haralick, Robert M. (*with* Myasnikov, Alexei D.; Myasnikov, Aleksei G.) Pattern recognition approaches to solving combinatorial problems in free groups. (English summary) **2005f:20065**
Healy, Dennis M., Jr. *see* **Priebe, Carey E. et al., (2005b:94011)**
Hinton, Geoffrey E. *see* **Teh, Yee Whye et al.**
(House, Leanna L.) *see* **Classification, clustering, and data mining applications, 2005i:62003**
Hu, Junling (*with* Wellman, Michael P.) Nash Q-learning for general-sum stochastic games. (English summary) **2005m:68180**
Huang, Yan Xin (*with* Zhou, Chun Guang; Zou, Shu Xue; Wang, Yan) A hybrid algorithm on class cover problems. (Chinese. English and Chinese summaries)
Hyyrö, Heikki (*with* Navarro, Gonzalo) Faster bit-parallel approximate string matching. (English summary) (*see* **2005a:68009**)
Kacprzyk, Janusz (*with* Zadrożny, Sławomir) Linguistic database summaries and their protoforms: towards natural language based knowledge discovery tools. (English summary)
Kaieda, Kenichi (*with* Abe, Shigeo) KPCA-based training of a kernel fuzzy classifier with ellipsoidal regions. (English summary) **2005f:68126**
Kamada, Masaru Sampling and modified optimization for reproduction of handwritten letters. (English summary) **2005g:65029**
Kenyon, Claire (*with* Rabani, Yuval; Sinclair, Alistair) Low distortion maps between point sets. (English summary) **2005j:68057**
Keriven, Renaud *see* **Faugeras, Olivier et al., (2005a:94002)**
Khot, Subhash *see* **Arora, Sanjeev, (2005i:68004)**
Kleinberg, Jon (*with* Tardos, Éva) Approximation algorithms for classification problems with pairwise relationships: metric labeling and Markov random fields. (English summary) **2005m:68254**
Konar, Amit (*with* Chakraborty, Uday K.; Wang, Paul P.) Supervised learning on a fuzzy Petri net. (English summary)
Kucharski, Krzysztof *see* **Skarbek, Władysław et al., 2005b:62139**
Lee, Yue-Shi *see* **Yen, Show-Jane**
Levinson, Stephen E. ★ Mathematical models for speech technology. **2005j:68001**
Li, Yan[6] (*with* Cui, Jian Fu; Ma, Lei[2]; Shi, Lei[2]) Application of local influence analysis in support vector machines. (Chinese. English and Chinese summaries) **2005m:62125**
Lian, Qiu-Sheng *see* **Wang, Cheng-Ru et al.**
Liu, Huawen Similarity measures between intuitionistic fuzzy sets and between elements and application to pattern recognitions. (English summary)
Liu, Yuanning (*with* Yang, Xiao Guang; Yuan, Shenmiao; Zhu, Xiaodong; Xu, Tao) A practical fast point pattern matching algorithm based on matching pair support and registration condition. (English summary)
Ma, Lei[2] *see* **Li, Yan[6] et al., 2005m:62125**
Malík, Antonín *see* **Novovičová, Jana**
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Mannila, Heikki Local and global methods in data mining: basic techniques and open problems. (English summary) (*see* **2005a:68008**)
Marchette, David J. ★ Random graphs for statistical pattern recognition. **2005f:62104**
— *see also* Priebe, Carey E. et al., (2005b:94011)
(McMorris, Frederick R.) *see* **Classification, clustering, and data mining applications, 2005i:62003**
Mena, J. B. (*with* Malpica, J. A.) Color image segmentation based on three levels of texture statistical evaluation. (English summary)
Mohri, Mehryar Weighted finite-state transducer algorithms. An overview. (English summary) (*see* **2005g:68088**)
Muthukrishnan, S. Muthu *see* **Ergün, Funda et al., (2005d:68010)** *and* **Cormode, Graham, (2005d:68010)**
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Myasnikov, Alexei D. *see* **Haralick, Robert M. et al., 2005f:20065**
Navarro, Gonzalo *see* **Hyyrö, Heikki, (2005a:68009)** *and* **Fredriksson, Kimmo et al., (2005a:68009)**
Novovičová, Jana (*with* Malík, Antonín) Text document classification based on mixture models. (English summary)
Osindero, Simon *see* **Teh, Yee Whye et al.**
Pan, Jian Jiang (*with* Yang, Xun Nian; Wang, Guo Zhao) An image segmentation and its algorithm based on fuzzy connectedness. (Chinese. English and Chinese summaries)
Pancerz, Krzysztof *see* **Fryc, B. et al.**
Pardalos, Panos M. *see* **Boginski, Vladimir L. et al., (2005h:90001)**
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Petkov, Nicolai *see* **Grigorescu, Cosmin, 2005f:94008**
Pirçon, Jean-Yves (*with* Rasson, Jean-Paul) The last step of a new divisive monothetic clustering method: the gluing-back criterion. (English summary) (*see* **2005i:62003**)
Priebe, Carey E. (*with* Marchette, David J.; Healy, Dennis M., Jr.) Integrated sensing and processing for statistical pattern recognition. (English summary) (*see* **2005b:94011**)
Rabani, Yuval *see* **Kenyon, Claire et al., 2005j:68057**
Rasson, Jean-Paul *see* **Pirçon, Jean-Yves, (2005i:62003)**
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Shi, Lei[2] *see* **Li, Yan[6] et al., 2005m:62125**
Shinozawa, Yoshihisa The offline handwritten character recognition by self-similarities. (Japanese. English and Japanese summaries)
Sinclair, Alistair *see* **Kenyon, Claire et al., 2005j:68057**
Skarbek, Władysław (*with* Kucharski, Krzysztof; Bober, Mirosław) Dual LDA for face recognition. (English summary) **2005b:62139**
Staffetti, Ernesto (*with* Grau, Antoni; Serratosa, Francesc; Sanfeliu, Alberto) Object and image indexing based on region connection calculus and oriented matroid theory. (English summary) **2005m:68230**
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Suraj, Zbigniew *see* **Fryc, B. et al.**
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Teh, Yee Whye (*with* Welling, Max; Osindero, Simon; Hinton, Geoffrey E.) Energy-based models for sparse overcomplete representations. (English summary)
Toussaint, Godfried Open problems in geometric methods for instance-based learning. (English summary) (*see* **2005f:52002**)
Tsumoto, Shusaku Extraction of structure of medical diagnosis from clinical data. (English summary) **2005a:92028**
Turski, Jacek Geometric Fourier analysis of the conformal camera for active vision. (English summary) **2005i:43010**
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Vazacopoulos, Alkis *see* **Boginski, Vladimir L. et al., (2005h:90001)**
Wang, Cheng-Ru (*with* Wang, Jin-Jia; Lian, Qiu-Sheng) A novel PNN classification for speaker identification. (English and Chinese summaries)
Wang, Guo Zhao *see* **Pan, Jian Jiang et al.**
Wang, Jin-Jia *see* **Wang, Cheng-Ru et al.**
Wang, Paul P. *see* **Konar, Amit et al.**
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Yang, Jie[3] (*with* Al-Rawi, Mohammed) Illumination invariant recognition of three-dimensional texture in color images. (English summary)
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Yang, Xun Nian *see* **Pan, Jian Jiang et al.**
Yen, Show-Jane (*with* Lee, Yue-Shi) Mining interesting association rules and sequential patterns. (English summary)
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Zalesskiĭ, B. A. Gibbs classifiers. (Russian. Russian summary) **2005i:62096**
Zhang, Daoqiang (*with* Chen, Songcan; Zhou, Zhi-Hua) A new face recognition method based on SVD perturbation for single example image per person. (English summary)
Zhong, Shi (*with* Ghosh, Joydeep) A unified framework for model-based clustering. (English summary)
Zhou, Chun Guang *see* **Huang, Yan Xin et al.**
Zhou, Zhi-Hua *see* **Zhang, Daoqiang et al.**
Zhu, Xiaodong *see* **Liu, Yuanning et al.**
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Items listed otherwise than by author

Chicago, IL ★ Classification, clustering, and data mining applications. **2005i:62003**
Classification, clustering, and data mining applications ★ Classification, clustering, and data mining applications. **2005i:62003**
Pattern recognition and string matching ★ Pattern recognition and string matching. **2005b:68003**

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Akbarpour, Behzad (*with* Tahar, Sofiène) Error analysis of digital filters using theorem proving. (English summary) (*see* **2005m:68012**)
Alonso-Jiménez, José Antonio *see* **Martín-Mateos, Francisco Jesús et al., 2005g:68147**
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Anderson, Penny (*with* Pfenning, Frank) Verifying uniqueness in a logical framework. (English summary) (*see* **2005m:68012**)
Beckert, Bernhard (*with* Giese, Martin; Habermalz, Elmar; Hähnle, Reiner; Roth, Andreas[2]; Rümmer, Philipp; Schlager, Steffen) Taclets: a new paradigm for constructing interactive theorem provers. (English and Spanish summaries)
Boite, Olivier Proof reuse with extended inductive types. (English summary) (*see* **2005m:68012**)
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Bundy, Alan A critique of proof planning. (English summary) (*see* **2005f:68005b**)
Cordero, Pablo (*with* Gutiérrez, Gloria; Martínez del Castillo, Javier; de Guzmán, I. P.) A new algebraic tool for automatic theorem provers. Multisemilattice: a structure to improve the efficiency of provers in temporal logics. (English summary) **2005k:68177**
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Cruz-Filipe, Luís (*with* Wiedijk, Freek) Hierarchical reflection. (English summary) (*see* **2005m:68012**)
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Detlefs, David (*with* Nelson, Charles Gregory; Saxe, James B.) Simplify: a theorem prover for program checking. (English summary) **2005m:68185**
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Hähnle, Reiner *see* **Beckert, Bernhard et al.**
Hai, Lin (*with* Sun, Ji Gui) Knowledge compilation using the extension rule. (English summary) **2005a:68175**
Hasegawa, Ryuzo (*with* Fujita, Hiroshi; Koshimura, Miyuki; Shirai, Yasuyuki) A model generation based theorem prover MGTP for first-order logic. (English summary) (*see* **2005f:68005b**)
Hickey, Jason (*with* Nogin, Aleksey) Extensible hierarchical tactic construction in a logical framework. (English summary) (*see* **2005m:68012**)
Hidalgo, María José *see* **Martín-Mateos, Francisco Jesús et al., 2005g:68147**
Ida, Tetsuo (*with* Buchberger, Bruno) Proving and solving in computational origami. (English summary)
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Jurkowiak, Bernard (*with* Li, Chu Min; Utard, Gil) A parallelization scheme based on work stealing for a class of SAT solvers. (English summary)
Kaufmann, Matt (*with* Moore, J. Strother) Some key research problems in automated theorem proving for hardware and software verification. (English and Spanish summaries)
Koshimura, Miyuki *see* **Hasegawa, Ryuzo et al., (2005f:68005b)**
Kounalis, Emmanuel *see* **Urso, Pascal, 2005e:68214**
Kullmann, Peter (*with* Sandri, Sandra) An annotated logic theorem prover for an extended possibilistic logic. (English summary) **2005b:68227**
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Li, Hong Bo Algebraic representation, elimination and expansion in automated geometric theorem proving. (English summary) **2005e:68212**
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— (*with* Liu, Wu; Xiang, Xiao-Lin) Geometry theorem proving by decomposing polynomial system into strong regular sets. (English summary) **2005g:68146**
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Liu, Wu *see* **Li, Yong Bin et al., 2005g:68146**
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Lyaletskiĭ, A. V. Evidential paradigm: a logical aspect. (Russian. English and Ukrainian summaries) **2005d:68122**
Mackenzie, Dana What in the name of Euclid is going on here? (English summary)
Manna, Zohar *see* **Zhang, Ting[3] et al., (2005m:68012)**
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Martín-Mateos, Francisco Jesús (*with* Alonso-Jiménez, José Antonio; Hidalgo, María José; Ruiz-Reina, José Luis) Formal verification of a generic framework to synthesize SAT-provers. (English summary) **2005g:68147**
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Nelson, Charles Gregory *see* **Detlefs, David et al., 2005m:68185**
Nguyen, Linh Anh (*with* Goré, Rajeev) Completeness of hyper-resolution via the semantics of disjunctive logic programs. (English summary)
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Richter, Stefan[2] Formalizing integration theory with an application to probabilistic algorithms. (English summary) (*see* **2005m:68012**)
Roth, Andreas[2] *see* **Beckert, Bernhard et al.**
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Vanlehn, Kurt *see* **Matsuda, Noboru, 2005a:68176**
Wang, Jinchang A cost-reducing question-selection algorithm for propositional knowledge-based systems. (English summary)
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Yang, Hong *see* **Wu, Yong Wei et al.**
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Zhang, Ting[3] (*with* Sipma, Henny B.; Manna, Zohar) Term algebras with length function and bounded quantifier alternation. (English summary) (*see* **2005m:68012**)
Zheng, Wei Min *see* **Wu, Yong Wei et al.**
Zimmer, Jürgen (*with* Melis, Erica) Constraint solving for proof planning. (English summary) **2005i:68074**
Zinn, Claus ★ Understanding informal mathematical discourse. (English and German summaries)

Items with secondary classifications in 68T15

Abrial, Jean-Raymond (*with* Cansell, Dominique) Click'n prove: interactive proofs within set theory. (English summary) (*see* **2005b:68026**)
Alonso-Jiménez, José Antonio (*with* Borrego-Díaz, Joaquín; Hidalgo, María José; Martín-Mateos, Francisco Jesús; Ruiz-Reina, José Luis) Verification of the formal concept analysis. (English and Spanish summaries)
— *see also* **Ruiz-Reina, José Luis et al., 2005e:03023**
Anantharaman, Siva (*with* Narendran, Paliath; Rusinowitch, Michaël) Unification modulo ACUI plus distributivity axioms. (English summary) **2005i:68034**
Arai, Noriko (*with* Pitassi, Toniann; Urquhart, Alasdair) The complexity of analytic tableaux. (English summary) (*see* **2005j:68008**)
Aspinall, David (*with* Beringer, Lennart; Hofmann, Martin; Loidl, Hans-Wolfgang; Momigliano, Alberto) A program logic for resource verification. (English summary) (*see* **2005m:68012**)
Atserias, Albert (*with* Bonet, María Luisa) On the automatizability of resolution and related propositional proof systems. (English summary) **2005a:03024**
Baader, Franz Preface [19th International Conference on Automated Deduction (CADE-19)].
Bachmair, Leo (*with* Tiwari, Ashish; Vigneron, Laurent) Abstract congruence closure. (English summary) **2005b:68161**
Barendregt, Henk Towards an interactive mathematical proof mode. (*see* **2005d:03006**)
(Basin, David) *see* **Theorem proving in higher order logics, 2005b:68026**
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Benzinger, Ralph Automated higher-order complexity analysis. (English summary) **2005e:68025**
Berghofer, Stefan Program extraction in simply-typed higher order logic. (English summary) (*see* **2005a:68017**)
Beringer, Lennart *see* **Aspinall, David et al., (2005m:68012)**
Bhargavan, Karthikeyan (*with* Obradovic, Davor; Gunter, Carl A.) Formal verification of standards for distance vector routing protocols. (English summary)
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Bofill, Miquel (*with* Godoy, Guillem) On the completeness of arbitrary selection strategies for paramodulation. (English summary) (*see* **2005a:68007**)
Bonet, María Luisa (*with* Domingo, Carlos Francisco; Gavaldà, Ricard; Maciel, Alexis; Pitassi, Toniann) Non-automatizability of bounded-depth Frege proofs. (English summary) **2005m:03119**
— *see also* **Atserias, Albert, 2005a:03024**
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— Towards the automated synthesis of a Gröbner bases algorithm. (English and Spanish summaries) **2005k:68240**

Bunder, M. W. (*with* Seldin, Jonathan P.) Variants of the basic calculus of constructions. (English summary) **2005g:03016**

(Bunker, Annette) *see* **Theorem proving in higher order logics, 2005m:68012**

Cadoli, Marco (*with* Schaerf, Andrea) Compiling problem specifications into SAT. (English summary) **2005j:68089**

Cansell, Dominique *see* **Abrial, Jean-Raymond, (2005b:68026)**

Cantone, Domenico (*with* Omodeo, Eugenio G.; Schwartz, Jacob T.; Ursino, Pietro) Notes from the logbook of a proof-checker's project. (English summary) (*see* **2005d:68014**)

Chandru, Vijaya (*with* Lassez, Jean-Louis) Qualitative theorem proving in linear constraints. (English summary) **2005e:03021**

Chen, Xue Feng (*with* Wang, DingKang) The projection of quasi variety and its application on geometric theorem proving and formula deduction. (English summary) (*see* **2005d:68006**)

Chupaeva, I. Yu. Automated proving and analysis of geometric theorems in coordinate-free form, using the method of anticommutative Gröbner bases. (Russian. English and Russian summaries) **2005e:68267**

Cordero, Pablo *see* **Martínez del Castillo, Javier et al., 2005d:03113**

Darwiche, Adnan Decomposable negation normal form. (English summary) **2005m:03027**

Dehlinger, Christophe (*with* Dufourd, Jean-François) Formalizing generalized maps in Coq. (English summary) **2005i:68080**

— (*with* Dufourd, Jean-François) Formalizing the trading theorem in Coq. (English summary) **2005i:68081**

Dix, Jürgen (*with* Leite, João Alexandre; Satoh, Ken) Introduction [Special issue on computational logic in multi-agent systems II].

— *see also* **Özcan, Fatma et al., 2005h:68139**

Dixon, Heidi E. (*with* Ginsberg, Matthew L.; Parkes, Andrew J.) Generalizing Boolean satisfiability. I. Background and survey of existing work. (English summary)

— (*with* Ginsberg, Matthew L.; Luks, Eugene M.; Parkes, Andrew J.) Generalizing Boolean satisfiability. II. Theory. (English summary)

Domingo, Carlos Francisco *see* **Bonet, María Luisa et al., 2005m:03119**

Dufourd, Jean-François *see* **Dehlinger, Christophe, 2005i:68080** *and* **2005i:68081**

Durga Bhavani, S. (*with* Pujari, Arun K.) EvIA—evidential interval algebra and heuristic backtrack-free algorithm. (English summary) **2005e:68221**

Echenim, Mnacho *see* **Boy de la Tour, Thierry, 2005m:03026**

Eiter, Thomas (*with* Fink, Michael; Sabbatini, Giuliana; Tompits, Hans) Reasoning about evolving nonmonotonic knowledge bases. (English summary) **2005m:68030**

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Field, Clinton *see* **Sieg, Wilfried, 2005k:03030**

Fink, Michael *see* **Eiter, Thomas et al., 2005m:68030**

Flanagan, Cormac (*with* Freund, Stephen N.; Qadeer, Shaz; Seshia, Sanjit A.) Modular verification of multithreaded programs. (English summary) **2005m:68155**

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(Franco, John) *see* **Theory and applications of satisfiability testing**

Franssen, Michael (*with* de Swart, Harrie) Cocktail: a tool for deriving correct programs. (English and Spanish summaries)

Freund, Stephen N. *see* **Flanagan, Cormac et al., 2005m:68155**

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Gavaldà, Ricard *see* **Bonet, María Luisa et al., 2005m:03119**

Genet, Thomas *see* **Feuillade, Guillaume et al., 2005m:68112**

Ghilardi, Silvio Unification, finite duality and projectivity in varieties of Heyting algebras. (English summary) **2005e:03056**

— (*with* Sacchetti, Lorenzo) Filtering unification and most general unifiers in modal logic. (English summary) **2005g:03028**

Giesl, Jürgen *see* **Kapur, Deepak et al., 2005k:03029**

Ginsberg, Matthew L. *see* **Dixon, Heidi E. et al.**

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de Guzmán, I. P. *see* **Martínez del Castillo, Javier et al., 2005d:03113**

Hamid, Nadeem Abdul (*with* Shao, Zhong) Interfacing Hoare logic and type systems for foundational proof-carrying code. (English summary) (*see* **2005m:68012**)

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Hofmann, Martin *see* **Aspinall, David et al., (2005m:68012)**

Jermann, Christophe (*with* Neveu, Bertrand; Trombettoni, Gilles) A new structural rigidity for geometric constraint systems. (English summary) (*see* **2005d:68006**)

Johnsen, Einar Broch (*with* Lüth, Christoph) Abstracting refinements for transformation. (English summary) **2005b:68191**

(Kamareddine, Fairouz D.) *see* **Thirty-five years of automating mathematics, 2005d:03006**

Kaporis, Alexis C. (*with* Kirousis, Lefteris M.; Lalas, Efthimios G.) The probabilistic analysis of a greedy satisfiability algorithm. (English summary) (*see* **2005c:68002**)

Kapur, Deepak (*with* Sakhanenko, Nikita A.) Automatic generation of generalization lemmas for proving properties of tail-recursive definitions. (English summary) **2005d:03024**

— (*with* Vigneron, Laurent) Preface [First-order theorem proving].

— (*with* Giesl, Jürgen; Subramaniam, Mahadevan) Induction and decision procedures. (English and Spanish summaries) **2005k:03029**

Kauers, Manuel Computer proofs for polynomial identities in arbitrary many variables. (English summary) (*see* **2005i:68002**)

(Kautz, Henry) *see* **Theory and applications of satisfiability testing**

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(Kleine Büning, Hans) *see* **Theory and applications of satisfiability testing**

Klíma, Ondřej Unification modulo associativity and idempotency is NP-complete. (English summary) (*see* **2005b:68019**)

Korovin, Konstantin (*with* Voronkov, Andrei) Knuth-Bendix constraint solving is NP-complete. (English summary) **2005k:68108**

Kreitz, Christoph (*with* Mantel, Heiko) A matrix characterization for multiplicative exponential linear logic. (English summary) **2005d:03025**

Kullmann, Oliver Upper and lower bounds on the complexity of generalised resolution and generalised constraint satisfaction problems. (English summary) **2005a:68098**

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Letouzey, Pierre A new extraction for Coq. (English summary) (*see* **2005a:68017**)

Li, Hong Bo Automated geometric theorem proving, Clifford bracket algebra and Clifford expansions. (English summary) **2005c:15044**

— Symbolic computation in the homogeneous geometric model with Clifford algebra. (English summary) (*see* **2005i:68002**)

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Liu, Faye F. Making assumptions in the automated derivation. (English summary)

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MacKenzie, Donald ★ Mechanizing proof. **2005f:03019**

Mantel, Heiko *see* **Kreitz, Christoph, 2005d:03025**

Marin, Mircea (*with* Kutsia, Temur) Programming with transformation rules. (English summary)

Martínez del Castillo, Javier (*with* Cordero, Pablo; Gutiérrez, Gloria; de Guzmán, I. P.) Restricted ideals and the groupability property. Tools for temporal reasoning. (English summary) **2005d:03113**

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McCune, W. (*with* Padmanabhan, R.; Rose, Michael A.; Veroff, R.) Automated discovery of single axioms for ortholattices. (English summary) **2005i:03075**

Meikle, Laura I. (*with* Fleuriot, Jacques D.) Formalizing Hilbert's Grundlagen in Isabelle/Isar. (English summary) (*see* **2005b:68026**)

Miller, Robert Simon (*with* Shanahan, Murray) Some alternative formulations of the event calculus. (English summary) (*see* **2005f:68005b**)

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Paulson, Lawrence C. Organizing numerical theories using axiomatic type classes. (English summary) **2005h:03033**

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Ruggieri, Salvatore *see* **Pedreschi, Dino, 2005m:68035**

Ruiz-Reina, José Luis (*with* Alonso-Jiménez, José Antonio; Hidalgo, María José; Martín-Mateos, Francisco Jesús) Termination in ACL2 using multiset relations. **2005e:03023**

— *see also* **Alonso-Jiménez, José Antonio et al.**

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Ligozat, Gérard *see* **Guesgen, Hans W. et al.**
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(Lomuscio, Alessio) *see* **Deontic logic in computer science, 2005d:68007**
Loyer, Yann (*with* Spyratos, Nicolas; Stamate, Daniel) Hypothesis-based semantics of logic programs in multivalued logics. (English summary) **2005b:68056**
Lozes, Étienne Elimination of spatial connectives in static spatial logics. (English summary) **2005i:68053**
Lukasiewicz, Thomas *see* **Eiter, Thomas, 2005e:68091**
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Marković, Zoran¹ (*with* Ognjanović, Zoran; Rašković, Miodrag) A probabilistic extension of intuitionistic logic. (English summary) **2005b:03058**
— (*with* Ognjanović, Zoran; Rašković, Miodrag) An intuitionistic logic with probabilistic operators. (English summary) **2005e:03045**
Marquis, Pierre (*with* Porquet, Nadège) Resource-bounded paraconsistent inference. (English summary) **2005a:03053**
McEliece, Robert J. (*with* Yildirim, Muhammed) Belief propagation on partially ordered sets. (English summary) **2005d:94056**
Mechtenberg, Lydia The stability theory of knowledge and belief revision: Comments on: "Stability, strength and sensitivity: converting belief into knowledge" [Erkenntnis **61** (2004), no. 2-3, 469–493; MR2117114 (2005j:03012)] by H. Rott. (English summary) **2005j:03013**
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Odelstad, Jan (*with* Boman, Magnus) Algebras for agent norm-regulation. (English summary) **2005i:91029**
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Ognjanović, Zoran *see* **Marković, Zoran¹ et al., 2005b:03058** *and* **2005e:03045**
Ouyang, Ji Hong (*with* Liu, Da You²; Hu, He; Chen, Bo Yu) A hybrid spatial reasoning approach based on fuzzy sets. (Chinese. English and Chinese summaries)
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Peppas, Pavlos The limit assumption and multiple revision. (English summary) **2005d:03028**
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Pliuškevičius, Regimantas (*with* Pliuškevičienė, Aida) Decision procedure for temporal logic of belief and actions. (English and Lithuanian summaries) **2005g:03026**
Porquet, Nadège *see* **Marquis, Pierre, 2005a:03053**
Portinale, Luigi (*with* Magro, Diego; Torasso, Pietro) Multi-modal diagnosis combining case-based and model-based reasoning: a formal and experimental analysis. (English summary)
Prakken, Henry (*with* Sartor, Giovanni) The role of logic in computational models of legal argument: a critical study. (English summary) (*see* **2005f:68005b**)
Psillos, Stathis Simply the best: a case for abduction. (English summary) (*see* **2005f:68005b**)
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Renz, Jochen (*with* Guesgen, Hans W.) Guest editorial [Spatial and temporal reasoning].
Ritter, Eike *see* **Pym, David J., 2005e:03002**
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Roeper, Peter A sequent formulation of conditional logic based on belief change operations. (English summary) **2005d:03029**
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Rott, Hans Economics and economy in the theory of belief revision. **2005c:03028**
— *see also* **Fermé, Eduardo, 2005f:03023** *and* **Mechtenberg, Lydia, 2005j:03013**
Sakalauskaitė, J. A sequent calculus for propositional dynamic logic for agents. (English and Lithuanian summaries) **2005i:03026**
Sakama, Chiaki Induction from answer sets in nonmonotonic logic programs. (English summary) **2005m:68036**
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Sartor, Giovanni *see* **Prakken, Henry, (2005f:68005b)**
Satoh, Ken *see* **Dix, Jürgen et al.**
Schaub, Torsten *see* **Delgrande, James P. et al., 2005g:03019**
Schmidt, Renate A. (*with* Tishovsky, Dmitry) Combining dynamic logic with doxastic modal logics. (English summary) **2005k:03045**
— (*with* Tishkovskiĭ, D. E.; Hustadt, Ullrich) Interactions between knowledge, action and commitment within agent dynamic logic. (English summary) **2005m:03038**
Schulte, Oliver (*with* Delgrande, James P.) Representing von Neumann-Morgenstern games in the situation calculus. (English summary) **2005k:91074**
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— The reasonableness of necessity. (English summary) **2005c:68256**
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Tu, Phan Huy *see* **Son, Tran Cao et al., 2005k:03073**
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Van Horn, Kevin S. Constructing a logic of plausible inference: a guide to Cox's theorem. (English summary) **2005a:03049**
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Walker, Elbert A. *see* **Yager, Ronald R. et al., 2005i:03065**
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Walliser, Bernard (*with* Zwirn, Denis; Zwirn, Hervé) Abductive logics in a belief revision framework. (English summary) **2005k:03036**
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Woods, John Hayden *see* **Gabbay, Dov M., 2005a:03001**
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Yager, Ronald R. (*with* Walker, Carol L.; Walker, Elbert A.) Generalizing Leximin to t-norms and t-conorms: the LexiT and LexiS orderings. (English summary) **2005i:03065**
Yildirim, Muhammed *see* **McEliece, Robert J., 2005d:94056**
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Zhang, Xin⁴ *see* **Son, Tran Cao et al., 2005k:03073**
Zhou, Qing² (*with* Wu, Li Hua¹) A theoretical analysis of combining system from logical reasoning to arithmetic. (Chinese. English and Chinese summaries)
Zwirn, Denis *see* **Walliser, Bernard et al., 2005k:03036**
Zwirn, Hervé *see* **Walliser, Bernard et al., 2005k:03036**

Items listed otherwise than by author

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—★ Logic programming and nonmonotonic reasoning. **2005b:68018**
—★ Deontic logic in computer science. **2005d:68007**
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Logic programming and nonmonotonic reasoning ★ Logic programming and nonmonotonic reasoning. **2005b:68018**
Madeira ★ Deontic logic in computer science. **2005d:68007**
Tbilisi ★ Logic for programming, artificial intelligence, and reasoning. **2005c:68007**

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Alonso-Jiménez, José Antonio (*with* Borrego-Díaz, Joaquín; Hidalgo, María José; Martín-Mateos, Francisco Jesús; Ruiz-Reina, José Luis) Verification of the formal concept analysis. (English and Spanish summaries)
Balabanov, A. S. Reconstruction of the structures of systems of probabilistic dependencies from data. The apparatus of genotypes of variables. (Russian. English, Russian and Ukrainian summaries) **2005h:68142**
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— Correction to: "Reconstruction of the structures of systems of probabilistic dependencies from data. The apparatus of genotypes of variables" [Problemy Upravlen. Inform. 2003, no. 2, 91–99, 157–158; MR2111996 (2005h:68142)]. (Russian)
Baldan, Paolo (*with* Mancarella, Paolo; Raffaetà, Alessandra; Turini, Franco) MuTACLP: a language for temporal reasoning with multiple theories. (English summary) (*see* **2005f:68005b**)
Baldwin, Richard A. (*with* Neufeld, Eric) On the structure model interpretation of Wright's NESS test. (English summary) (*see* **2005f:68004**)
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de Campos Ibáñez, Luis Miguel (*with* Gámez, José A.; Puerta, J. Miguel) A graphical meta-model for reasoning about Bayesian network structure. (English summary)
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Moral, Serafín (*with* Salmerón, Antonio) Dynamic importance sampling in Bayesian networks based on probability trees. (English summary) **2005h:68149**
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Prakken, Henry (*with* Sartor, Giovanni) The role of logic in computational models of legal argument: a critical study. (English summary) (*see* **2005f:68005b**)
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Raffaetà, Alessandra *see* **Baldan, Paolo et al.**, (**2005f:68005b**)
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Studený, Milan Characterization of inclusion neighbourhood in terms of the essential graph. (English summary) **2005h:68150**
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Vomlelová, Marta (*with* Jensen, Finn V.) An extension of lazy evaluation for influence diagrams avoiding redundant variables in the potentials. (English summary) **2005a:68190**
Wang, Jie[1] (*with* Ju, Shier; Luo, Xudong; Hu, Jueliang) Probabilistic logic programming with inheritance. (English summary) **2005a:68191**
Wang, Pei[2] The limitation of Bayesianism. (English summary) **2005b:68239**
Wellman, Michael P. *see* **Liu, Chao-Lin, 2005b:68238**
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Zacpal, Jiří *see* **Bělohlávek, Radim et al., 2005c:68252**
Zakharyashchev, Michael *see* **Kutz, Oliver et al., 2005a:68187**
Železný, Filip Efficiency-conscious propositionalization for relational learning. (English summary)
Zhang, Da Lu (*with* Tong, Xi) Establishment of semantic web based on binary relation. (Chinese. English and Chinese summaries)
Zhang, Lian Wen (*with* Kočka, Tomáš) Effective dimensions of hierarchical latent class models. (English summary) **2005j:68101**
— *see also* **Chen, Tao**[1] **et al., 2005h:68144**
Zhang, Yuanlin (*with* Yap, Roland H. C.) P. van Beek and R. Dechter's theorem on constraint looseness and local consistency. Erratum: "Constraint tightness and looseness versus local and global consistency" [J. ACM **44** (1997), no. 4, 549–566; MR1481314 (98h:68215)].

Items with secondary classifications in 68T30

Aslam, Javed A. (*with* Pelekhov, Ekaterina; Rus, Daniela) The star clustering algorithm for static and dynamic information organization. (English summary) **2005h:68114**
Baader, Franz (*with* Hladik, Jan; Lutz, Carsten; Wolter, Frank) From tableaux to automata for description logics. (English summary) **2005h:68134**
Bacauskiene, Marija (*with* Verikas, Antanas) The evidence theory based post-processing of colour images. (English and Lithuanian summaries)
Baldoni, Matteo (*with* Martelli, Alberto; Patti, Viviana; Giordano, Laura) Programming rational agents in a modal action logic. (English summary) **2005e:68218**
Baral, Chitta (*with* Gelfond, Michael; Rushton, Nelson) Probabilistic reasoning with answer sets. (English summary) (*see* **2005b:68018**)
Bernard, Otto On contexts of direct products, ordinal sums and ordinal products. (English summary) **2005g:06007**
Bolt, Janneke H. (*with* van der Gaag, Linda C.; Renooij, Silja) Introducing situational signs in qualitative probabilistic networks. (English summary)
Brito, Paula (*with* Polaillon, Géraldine) Structuring probabilistic data by Galois lattices. (English and French summaries)
Brunet, Olivier A logic for partial system description. (English summary) **2005f:03039**
Calvanese, Diego (*with* De Giacomo, Giuseppe; Lenzerini, Maurizio) Description logics for information integration. (English summary) (*see* **2005f:68005b**)

Castelo, Robert (*with* Perlman, Michael D.) Learning essential graph Markov models from data. (English summary)
— (*with* Kočka, Tomáš) On inclusion-driven learning of Bayesian networks. (English summary)
Čepek, Ondřej A simple heuristic for knowledge base compression. (English summary) **2005a:68182**
Chikalov, Igor V. *see* **Moshkov, Mikhail, 2005b:68228**
Coste-Marquis, Sylvie (*with* Marquis, Pierre) On stratified belief base compilation. (English summary) **2005g:68150**
Couso Blanco, Inés (*with* Sánchez, Luciano; Gil Álvarez, Pedro Ángel) Imprecise distribution function associated to a random set. (English summary) **2005a:60020**
Daniel, Milan Algebraic structures related to the combination of belief functions. (English summary) **2005e:68227**
Darwiche, Adnan *see* **Park, James D., 2005j:68104**
Dastani, Mehdi (*with* Hulstijn, Joris; van der Torre, Leendert) How to decide what to do? (English summary) **2005e:68220**
De Giacomo, Giuseppe *see* **Sardina, Sebastian et al., 2005b:68232** *and* **Calvanese, Diego et al., (2005f:68005b)**
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Doherty, Patrick *see* **Meyer, John-Jules Ch., (2005d:68001)**
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Eiter, Thomas (*with* Fink, Michael; Sabbatini, Giuliana; Tompits, Hans) Reasoning about evolving nonmonotonic knowledge bases. (English summary) **2005m:68030**
Finger, Marcelo (*with* Wassermann, Renata) Approximate and limited reasoning: semantics, proof theory, expressivity and control. (English summary) **2005d:68124**
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van der Gaag, Linda C. *see* **Bolt, Janneke H. et al.**
(Gámez, José A.) *see* **Advances in Bayesian networks**
Ganter, Bernhard (*with* Krauße, Rüdiger) Pseudo-models and propositional Horn inference. (English summary) **2005i:03015**
García-Díaz, Miguel (*with* Nieva, Susana) Formalizing two fixed point semantics for $HH(C)$. (English summary) **2005i:68012**
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— *see also* **Baral, Chitta et al., (2005b:68018)**
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Guller, Dušan Procedural semantics for fuzzy disjunctive programs on residuated lattices. (English summary) (*see* **2005d:68010**)
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Hladik, Jan *see* **Baader, Franz et al., 2005h:68134**
van der Hoek, Wiebe *see* **van Linder, Bernd et al., (2005d:68001)**
Homenda, Wladyslaw (*with* Pedrycz, Witold) Balanced fuzzy computing unit. (English summary)
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Iancu, Ion A representation of an uncertain body of evidence. (English summary) **2005b:68244**
Kameya, Yoshitaka *see* **Sato, Taisuke, (2005f:68005b)**
Kang, Dazhou (*with* Xu, Bao-Wen; Lu, Jianjiang; Wang, Peng) Approximate querying between heterogeneous ontologies based on association matrix. (English and Chinese summaries)
Kočka, Tomáš *see* **Castelo, Robert**
Kohout, Ladislav J. Equations and inequalities with BK-products of relations. (English summary) (*see* **2005b:00019**)
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Korotkikh, V. V. An approach to the mathematical theory of perception-based information. (English summary) (*see* **2005b:00019**)
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Lomuscio, Alessio (*with* Sergot, Marek) A formalisation of violation, error recovery, and enforcement in the bit transmission problem. (English summary) **2005d:03034**
Loyer, Yann (*with* Spyratos, Nicolas; Stamate, Daniel) Parametrized semantics of logic programs—a unifying framework. (English summary) **2005b:68055**
Lu, Jianjiang *see* **Kang, Dazhou et al.**
Lu, Tsai-Ching (*with* Druzdzel, Marek J.) Causal models, value of intervention, and search for opportunities. (English summary)
Lucas, Peter J. F. Restricted Bayesian network structure learning. (English summary)
Lutz, Carsten Description logics with concrete domains—a survey. (English summary) **2005h:68136**
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McEliece, Robert J. (*with* Yildirim, Muhammed) Belief propagation on partially ordered sets. (English summary) **2005d:94056**
Meghini, Carlo (*with* Sebastiani, Fabrizio; Straccia, Umberto) A model of multimedia information retrieval. (English summary)
— (*with* Tzitzikas, Yannis; Spyratos, Nicolas) An abduction-based method for index relaxation in taxonomy-based sources. (English summary) **2005c:68250**
Mena, J. B. (*with* Malpica, J. A.) Color image segmentation based on three levels of texture statistical evaluation. (English summary)
van der Meyden, Ron *see* **Halpern, Joseph Y. et al., 2005b:03041**
Meyer, John-Jules Ch. (*with* Doherty, Patrick) Preferential action semantics. (*see* **2005d:68001**)
— *see also* **van Linder, Bernd et al., (2005d:68001)**
(Moral, Serafín) *see* **Advances in Bayesian networks**
Moshkov, Mikhail (*with* Chikalov, Igor V.) Consecutive optimization of decision trees concerning various complexity measures. (English summary) **2005b:68228**
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Ouerd, M. (*with* Oommen, B. John; Matwin, S.) A formal approach to using data distributions for building causal polytree structures. (English summary) **2005i:68072**
Park, James D. (*with* Darwiche, Adnan) Complexity results and approximation strategies for MAP explanations. (English summary) **2005j:68104**
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Shimony, Solomon Eyal *see* **Rosen, Tzachi et al., 2005a:68196**
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Suck, Reinhard Set representations of orders and a structural equivalent of saturation. (English summary) **2005k:06004**
Ţăndăreanu, Nicolae Distinguished representatives for equivalent labelled stratified graphs and applications. (English summary) **2005e:68192**
Tang, Yongchuan (*with* Xu, Yang[1]) Application of fuzzy naive Bayes and a real-valued genetic algorithm in identification of fuzzy model. (English summary)
Tao, Zhi (*with* Xu, Bao Dong; Zhao, Chun Yuan) Attributes relative reduction approach based on discernibility function and strong compressible set theory. (Chinese. English and Chinese summaries)
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Xu, Bao-Wen *see* **Kang, Dazhou et al.**
Xu, Yang[1] *see* **Tang, Yongchuan**
Yager, Ronald R. On the determination of strength of belief for decision support under uncertainty. II. Fusing strengths of belief. (English summary) **2005e:68230**
— Decision making using minimization of regret. (English summary) **2005a:68197**
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Zhang, Bo[2] *see* **Zhang, Ling[1], 2005a:68181**
Zhang, Ling[1] (*with* Zhang, Bo[2]) The quotient space theory of problem solving. (English summary) **2005a:68181**
Zhang, Yan[1] Two results for prioritized logic programming. (English summary) **2005b:68059**
Zhao, Chun Yuan *see* **Tao, Zhi et al.**

Items listed otherwise than by author

Advances and applications of DSmT for information fusion ★ Advances and applications of DSmT for information fusion.
Advances in Bayesian networks ★ Advances in Bayesian networks.
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Abdelbar, Ashraf M. Approximating cost-based abduction is NP-hard. (English summary) **2005f:68139**
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Ying, Mingsheng Knowledge transformation and fusion in diagnostic systems. (English summary) **2005i:68077**
Zhou, Qing[2] (*with* Wu, Li Hua[1]) A theoretical analysis of combining system from logical reasoning to arithmetic. (Chinese. English and Chinese summaries)

Items with secondary classifications in 68T35

Allahverdi, Novruz *see* **Vagin, Vadim N.**
Bondarenko, A. V. (*with* Galaktionov, V. A.; Gerasimenko, A. A.; Ëlkin, S. V.; Musatov, A. M.; Klyshinskiĭ, È. S.; Slezkina, O. Yu.) Automation of the transcription process for the problem of multilanguage interpretation of proper names. (Russian. Russian summary)
Bovey, R. *see* **Lawry, Jonathan et al., 2005a:68194**
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Slezkina, O. Yu. *see* **Bondarenko, A. V. et al.**
Tron, Eviatar (*with* Margaliot, Michael) Mathematical modeling of observed natural behavior: a fuzzy logic approach. (English summary)
Truemper, Klaus ★ Design of logic-based intelligent systems. **2005e:68210**
Vagin, Vadim N. (*with* Allahverdi, Novruz) Intelligent case for semiotic systems. (English summary)
Vyshinskiĭ, L. L. (*with* Grinev, I. L.; Dunin-Barkovskiĭ, V. L.; Flerov, Yu. A.; Shirokov, N. I.) ★ Мониторинг, анализ и прогнозирование поведения многоагентных систем на базе нейрокомпьютерной модели мозжечка. (Russian. Russian summary) [Monitoring, analysis, and prediction of the behavior of multi-agent systems on the basis of a neurocomputer model of the cerebellum]
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Items listed otherwise than by author

Applied intelligent systems ★ Applied intelligent systems. **2005j:68004**

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Akchurina, N. R. (*with* Vagin, Vadim N.) A generalized problem of quantizing the values of attributes, based on the theory of approximate sets. (Russian. Russian summary)
Allen, David Leonard (*with* Darwiche, Adnan) Optimal time-space tradeoff in probabilistic inference. (English summary)
Alsinet, Teresa (*with* Godo, Lluís) Adding similarity-based reasoning capabilities to a Horn fragment of possibilistic logic with fuzzy constants. (English summary) **2005b:68240**
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Elorza, Jorge (*with* Burillo López, Pedro J.) Parametric families of fuzzy consequence operators. (English summary) **2005m:68197**
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van der Gaag, Linda C. *see* **Bolt, Janneke H. et al.**
Gámez, José A. Abductive inference in Bayesian networks: a review. (English summary)

Gebhardt, J. (*with* Borgelt, Christian; Kruse, Rudolf; Detmer, H.) Knowledge revision in Markov networks. (English summary) **2005k:68192**
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— (*with* Hall, J. W.; Bovey, R.) Fusion of expert and learnt knowledge in a framework of fuzzy labels. (English summary) **2005a:68194**
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— *see also* **Zhang, Dong Feng et al.**
Lin, Zuo Quan (*with* Mu, Ke Dian; Han, Qing) An approach to combination of conflicting evidences by disturbance of ignorance. (Chinese. English and Chinese summaries)
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Zhang, Dong Feng (*with* Huang, Shu Ling; Li, Fan[2]) An approach to measuring the similarity between vague sets. (Chinese. English and Chinese summaries)
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Items listed otherwise than by author

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— (*with* Lan, Qian; Li, Suo Ping; Wang, Bai Yan) Similarity degree and pseudo-distance in the propositional logic S_3. (Chinese. English and Chinese summaries)
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Morales, Montaña *see* **León-Rojas, Juan M., 2005j:62020**
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Muel, E. *see* **Kolesárová, Anna et al., 2005f:28040**
Neagu, Nicoleta ★ Constraint satisfaction techniques for agent-based reasoning. **2005k:68182**
Newby, Martin *see* **Oussalah, Mourad, 2005e:60201**
Nielsen, Thomas D. (*with* Jensen, Finn V.) Advances in decision graphs. (English summary)
(Nikravesh, Masoud) *see* **Fuzzy partial differential equations and relational equations, 2005b:00019** *and* **Fuzzy logic and the internet, 2005b:68002**
Oussalah, Mourad (*with* Newby, Martin) Combination of qualitative and quantitative sources of knowledge for risk assessment in the framework of possibility theory. (English summary) **2005e:60201**
Pal, Madhumangal *see* **Shyamal, Amiya K., 2005a:03108**
Parashkevova, Daniela *see* **Gegov, Alexander et al.**
Paris, J. B. (*with* Vencovská, A.) The emergence of reasons conjecture. (English summary) **2005k:03050**
Park, James D. (*with* Darwiche, Adnan) A differential semantics for jointree algorithms. (English summary) **2005d:68127**
Parkan, Celik *see* **Wang, Ying-Ming, 2005m:03115**
Pei, Dao Wu Fuzzy logic algebras on residuated lattices. (English summary) **2005c:03047**
— Simplification and independence of axioms of fuzzy logic systems IMTL and NM. (English summary) **2005m:03046**
Pelessoni, Renato (*with* Vicig, Paolo) Uncertainty modelling and conditioning with convex imprecise previsions. (English summary) **2005k:60011**
(Peters, James F., III) *see* **Rough sets and current trends in computing, 2005c:68011**
Pindur, Roman (*with* Susmaga, Robert; Stefanowski, Jerzy) Hyperplane aggregation of dominance decision rules. (English summary)
Polkowski, Lech A note on 3-valued rough logic accepting decision rules. (English summary) **2005b:03060**
Prade, Henri *see* **Dubois, Didier et al., 2005b:03068**; **2005b:68230**; **2005b:91065** *and* **2005c:03099**
Pradera, A. *see* **Calvo, T., 2005e:28025**
Premaratne, K. *see* **Kulasekere, E. C. et al., 2005b:68237**
Puerta, J. Miguel *see* **de Campos Ibáñez, Luis Miguel et al.**
Qin, Ke-yun *see* **Xu, Yang[1] et al., 2005d:03001**
Ramos, Fabio Tozeto (*with* Cozman, Fabio Gagliardi) Anytime anyspace probabilistic inference. (English summary) **2005i:68076**
Rana, S. S. (*with* Sharma, Pramod C.; Upadhyay, Samar; Devendra Nath, J.) Fuzzy ordering using root mean square deviation method. (English summary)
Recasens, Jordi *see* **Hernández, Enric, 2005h:68145**
Reis, Manuel J. C. S. *see* **Ferreira, Paulo J. S. G., 2005g:94035**
da Rocha, José Carlos F. (*with* Cozman, Fabio Gagliardi) Inference in credal networks: branch-and-bound methods and the A/R+ algorithm. (English summary)
Ruan, Da *see* **Xu, Yang[1] et al., 2005d:03001**
Sabbadin, Régis *see* **Fargier, Hélène, 2005k:91087**
(Salmerón, Antonio) *see* **Advances in Bayesian networks**
Salvetti, Andrea *see* **Antonucci, Alessandro et al., (2005i:62007)**
Saminger, Susanne (*with* Mesiar, Radko) A general approach to decomposable bi-capacities. (English summary) **2005b:28026**
Sanchez, Elie Decomposition of fuzzy relations and functional relations. (English summary) (*see* **2005b:00019**)
Sandri, Sandra *see* **Kullmann, Peter, 2005b:68227**
Sardina, Sebastian (*with* De Giacomo, Giuseppe; Lespérance, Yves; Levesque, Hector J.) On the semantics of deliberation in IndiGolog—from theory to implementation. (English summary) **2005b:68232**
Schramm, Manfred (*with* Fronhöfer, Bertram) Probabilistic aspects of score systems. (English summary) **2005b:62138**
Schulte, Oliver (*with* Delgrande, James P.) Representing von Neumann-Morgenstern games in the situation calculus. (English summary) **2005k:91074**
Scozzafava, Romano *see* **Coletti, Giulianella, 2005b:03001**
Seidenfeld, T. A contrast between two decision rules for use with (convex) sets of probabilities: Γ-maximin versus E-admissibility.
Sharma, Pramod C. *see* **Rana, S. S. et al.**
Shyamal, Amiya K. (*with* Pal, Madhumangal) Two new operators on fuzzy matrices. (English summary) **2005a:03108**
Shyu, M.-L. *see* **Kulasekere, E. C. et al., 2005b:68237**
Singpurwalla, Nozer D. (*with* Booker, Jane M.) Membership functions and probability measures of fuzzy sets. (English summary) **2005k:60012**
Sirbiladze, G. (*with* Gachechiladze, T.) Restored fuzzy measures in expert decision-making. (English summary)
(Skowron, Andrzej[1]) *see* **Rough sets, fuzzy sets, data mining, and granular computing, 2005b:68024** *and* **Rough sets and current trends in computing, 2005c:68011**
Smith, Jim Q. *see* **Daneshkhah, Alireza**
Snow, Paul Belief, logic, and partial truth. (English summary) **2005f:03035**
Spyratos, Nicolas *see* **Meghini, Carlo et al., 2005c:68250**
Stefanowski, Jerzy *see* **Pindur, Roman et al.**
Stepaniuk, Jaroslaw (*with* Hońko, Piotr) Learning first-order rules: a rough set approach. (English summary)
Sun, Zeng Qi *see* **Chen, Wei**
Susmaga, Robert *see* **Pindur, Roman et al.**
Thorbiornson, Johan *see* **Ekenberg, Love et al., 2005i:91037**
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Vencovská, A. *see* **Paris, J. B., 2005k:03050**
Vicig, Paolo *see* **Pelessoni, Renato, 2005k:60011**
Viertl, Reinhard (*with* Hareter, Dietmar) Fuzzy information and stochastics. (English summary)
Vomlelová, Marta (*with* Jensen, Finn V.) An extension of lazy evaluation for influence diagrams avoiding redundant variables in the potentials. (English summary) **2005a:68190**
Wang, Bai Yan *see* **Li, Jun[6] et al.**
Wang, Fei Yue On the abstraction of conventional dynamic systems: from numerical analysis to linguistic analysis. (English summary)
(Wang, Guoyin) *see* **Rough sets, fuzzy sets, data mining, and granular computing, 2005b:68024**
Wang, Jie[1] (*with* Ju, Shier; Luo, Xudong; Hu, Jueliang) Probabilistic logic programming with inheritance. (English summary) **2005a:68191**
Wang, Pei[2] The limitation of Bayesianism. (English summary) **2005b:68239**
Wang, Xue Ping[2] *see* **Yang, Yan, 2005i:03066**
Wang, Ying-Ming (*with* Parkan, Celik) Multiple attribute decision making based on fuzzy preference information on alternatives: ranking and weighting. (English summary) **2005m:03115**
Wellman, Michael P. *see* **Liu, Chao-Lin, 2005b:68238**
Xia, Ya Feng *see* **Li, Jun[6] et al., 2005c:03038**
Xirouchakis, Paul *see* **Gheorghe, Razvan et al., 2005m:03108**
Xu, Yang[1] (*with* Ruan, Da; Qin, Ke-yun; Liu, Jun[7]) ★ Lattice-valued logic. **2005d:03001**
Xu, Ze Shui A method based on fuzzy linguistic assessments and the GIOWA operator

in multi-attribute group decision making. (Chinese. English and Chinese summaries) **2005a:91107**

Yager, Ronald R. Monitored heavy fuzzy measures and their role in decision making under uncertainty. (English summary) **2005b:28028**

Yañez Gestoso, Javier *see* **Gómez González, Daniel et al., 2005b:03126**

Yang, Yan (*with* Wang, Xue Ping[2]) On the convergence exponent of decomposable relations. (English summary) **2005i:03066**

Yao, Jing-Shing (*with* Yu, Ming-Miin) Decision making based on statistical data, signed distance and compositional rule of inference. (English summary)

(Yao, Yiyu) *see* **Rough sets and current trends in computing, 2005b:68023** *and* **Rough sets, fuzzy sets, data mining, and granular computing, 2005b:68024**

Yu, Ming-Miin *see* **Yao, Jing-Shing**

Yue, Bo (*with* Jiao, Li Cheng) The invariance of the marginal probability distribution in the optimal approximate Bayesian networks. (Chinese. English and Chinese summaries) **2005g:62014**

(Zadeh, Lotfi A.) *see* **Fuzzy partial differential equations and relational equations, 2005b:00019** *and* **Fuzzy logic and the internet, 2005b:68002**

Zaffalon, Marco *see* **Antonucci, Alessandro et al., (2005i:62007)**

Zhang, Bo[2] *see* **Zhang, Ling[1], 2005a:68181**

Zhang, Lian Wen (*with* Kočka, Tomáš) Effective dimensions of hierarchical latent class models. (English summary) **2005j:68101**

— *see also* **Chen, Tao[1] et al., 2005h:68144**

Zhang, Ling[1] (*with* Zhang, Bo[2]) The quotient space theory of problem solving. (English summary) **2005a:68181**

(Zhong, Ning[2]) *see* **Rough sets and current trends in computing, 2005c:68011**

(Ziarko, Wojciech) *see* **Rough sets and current trends in computing, 2005b:68023**

Items listed otherwise than by author

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Agent-based defeasible control in dynamic environments ★ Agent-based defeasible control in dynamic environments. **2005d:68001**

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Chongqing ★ Rough sets, fuzzy sets, data mining, and granular computing. **2005b:68024**

Cuenca ★ Advances in Bayesian networks.

Fuzzy logic and the internet ★ Fuzzy logic and the internet. **2005b:68002**

Fuzzy partial differential equations and relational equations ★ Fuzzy partial differential equations and relational equations. **2005b:00019**

Lecture Notes in Computer Science ★ Rough sets and current trends in computing. **2005b:68023**

—★ Rough sets and current trends in computing. **2005c:68011**

—★ Rough sets, fuzzy sets, data mining, and granular computing. **2005b:68024**

Malvern, PA ★ Rough sets and current trends in computing. **2005c:68011**

Rough sets and current trends in computing ★ Rough sets and current trends in computing. **2005b:68023**

—★ Rough sets and current trends in computing. **2005c:68011**

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Arkin, Esther M. *see* **Sztainberg, Marcelo O. et al., (2005a:68002)**

Bender, Michael A. *see* **Sztainberg, Marcelo O. et al., (2005a:68002)**

Burdonov, I. B. Traversing an unknown directed graph by a finite robot. (Russian. Russian summary)

Cieliebak, Mark (*with* Flocchini, Paola; Prencipe, Giuseppe; Santoro, Nicola) Solving the robots gathering problem. (English summary) (*see* **2005b:68008**)

— Gathering non-oblivious mobile robots. (English summary) (*see* **2005d:68010**)

Demaine, Erik D. (*with* López-Ortiz, Alejandro; Munro, J. Ian) Robot localization without depth perception. (English summary) (*see* **2005a:68002**)

Dessmark, Anders (*with* Pelc, Andrzej) Optimal graph exploration without good maps. (English summary) (*see* **2005c:68002**)

Farber, Michael S. Instabilities of robot motion. (English summary) **2005g:68166**

Flocchini, Paola *see* **Cieliebak, Mark et al., (2005b:68008)**

Fraigniaud, Pierre (*with* Gąsieniec, Leszek; Kowalski, Dariusz R.; Pelc, Andrzej) Collective tree exploration. (English summary) (*see* **2005d:68010**)

— (*with* Ilcinkas, David) Digraphs exploration with little memory. (English summary) **2005e:68231**

Gąsieniec, Leszek *see* **Fraigniaud, Pierre et al., (2005d:68010)**

German, O. V. (*with* Zan′ko, D. V.) Synthesis of a control algorithm in a system of production rules with a time parameter. (Russian. Russian summary) **2005e:68232**

Ilcinkas, David *see* **Fraigniaud, Pierre, 2005e:68231**

Kowalski, Dariusz R. *see* **Fraigniaud, Pierre et al., (2005d:68010)**

López-Ortiz, Alejandro (*with* Schuierer, Sven) Online parallel heuristics and robot searching under the competitive framework. (English summary) (*see* **2005a:68002**)

— *see also* **Demaine, Erik D. et al., (2005a:68002)**

Luk′yanov, A. A. Effective visual localization of mobile robots on the basis of a probabilistic Markov localization method. (Russian. Russian summary)

Mitchell, Joseph S. B. *see* **Sztainberg, Marcelo O. et al., (2005a:68002)**

Mohades, Ali (*with* Shiri, Mohammad Ebrahim; Razzazi, Mohammadreza) The reachability problem in a concave region: a new context. (English summary) **2005e:68233**

Munro, J. Ian *see* **Demaine, Erik D. et al., (2005a:68002)**

Pelc, Andrzej *see* **Dessmark, Anders, (2005c:68002)** *and* **Fraigniaud, Pierre et al., (2005d:68010)**

Prencipe, Giuseppe *see* **Cieliebak, Mark et al., (2005b:68008)**

Rabinoff, Joseph Hybrid grids and the homing robot. (English summary) **2005e:68234**

Razzazi, Mohammadreza *see* **Mohades, Ali et al., 2005e:68233**

Reif, John H. (*with* Sun, Zheng[1]) On frictional mechanical systems and their computational power. (English summary) **2005f:68145**

— (*with* Sun, Zheng[1]) Movement planning in the presence of flows. (English summary) **2005b:68249**

Santoro, Nicola *see* **Cieliebak, Mark et al., (2005b:68008)**

Schuierer, Sven *see* **López-Ortiz, Alejandro, (2005a:68002)**

Shiri, Mohammad Ebrahim *see* **Mohades, Ali et al., 2005e:68233**

Sun, Zheng[1] *see* **Reif, John H., 2005b:68249** *and* **2005f:68145**

Sztainberg, Marcelo O. (*with* Arkin, Esther M.; Bender, Michael A.; Mitchell, Joseph S. B.) Analysis of heuristics for the freeze-tag problem. (English summary) (*see* **2005a:68002**)

Zan′ko, D. V. *see* **German, O. V., 2005e:68232**

Items with secondary classifications in 68T40

Abłamowicz, Rafał (*with* Baylis, William E.; Branson, Thomas; Lounesto, Pertti; Porteous, Ian; Ryan, John; Selig, J. M.; Sobczyk, Garret) ★ Lectures on Clifford (geometric) algebras and applications. **2005d:15001**

Agarwal, Pankaj K. (*with* Berretty, Robert-Paul; Collins, Anne D.) A near-quadratic algorithm for fence design. (English summary) **2005m:68208**

Baldoni, Matteo (*with* Martelli, Alberto; Patti, Viviana; Giordano, Laura) Programming rational agents in a modal action logic. (English summary) **2005e:68218**

Baylis, William E. *see* **Abłamowicz, Rafał et al., 2005d:15001**

Beauzamy, Bernard *see* **Decugis, Vincent, 2005j:70005**

Berretty, Robert-Paul *see* **Agarwal, Pankaj K. et al., 2005m:68208**

Branson, Thomas *see* **Abłamowicz, Rafał et al., 2005d:15001**

Burdakov, S. F. (*with* Miroshnik, I. V.; Stel′makov, R. È.) ★ Системы управления движением колесных роботов. (Russian. English and Russian summaries) [Systems for the control of the motion of wheeled robots] **2005a:70008**

Burdonov, I. B. The problem of backtracking along a tree in the transversing of an unknown directed graph by a finite robot. (Russian. Russian summary)

Chwa, Kyung-Yong *see* **Park, Sang-Min et al., (2005a:68007)**

Collins, Anne D. *see* **Agarwal, Pankaj K. et al., 2005m:68208**

Datta, Amitava (*with* Soundaralakshmi, Subbiah) On-line path planning in an unknown polygonal environment. (English summary) **2005b:68260**

Decugis, Vincent (*with* Beauzamy, Bernard) Convergence of a reactive planning algorithm. (English summary) **2005j:70005**

Dessmark, Anders (*with* Pelc, Andrzej) Optimal graph exploration without good maps. (English summary) **2005e:68186**

Efrat, Alon (*with* Indyk, Piotr; Ventkatasubramanian, Suresh) Pattern matching for sets of segments. (English summary) **2005d:52027**

Farber, Michael S. (*with* Yuzvinsky, Sergey) Topological robotics: subspace arrangements and collision free motion planning. (English summary) **2005i:55019**

Gaddipati, Vijayalakshmi *see* **Shih, Frank Y., 2005j:68112**

Gervasi, Vincenzo (*with* Prencipe, Giuseppe) Coordination without communication: the case of the flocking problem. (English summary) **2005i:68008**

Giordano, Laura *see* **Baldoni, Matteo et al., 2005e:68218**

Hashem, M. M. A. *see* **Watanabe, Keigo, 2005c:93003**

Indyk, Piotr *see* **Efrat, Alon et al., 2005d:52027**

Kameda, Tsunehiko *see* **Yamashita, Masafumi et al., 2005c:68278**

Kamphans, Tom (*with* Langetepe, Elmar) The pledge algorithm reconsidered under errors in sensors and motion. (English summary) (*see* **2005c:68005**)

Koussoulas, Nick T. (*with* Skiadas, Photis) Symbolic computation for mobile robot path planning. (English summary) **2005e:70002**

Langetepe, Elmar *see* **Kamphans, Tom, (2005c:68005)**

Lee, Jae-Ha *see* **Park, Sang-Min et al., (2005a:68007)**

Li, Shao Yuan[2] (*with* Zou, Tao; Yang, Yi-Peng) Finding the fuzzy satisfying solutions to constrained optimal control systems and application to robot path planning. (English summary)

Li, Ze-Xiang *see* **Shen, Hui et al.**

Liu, Guan-Feng *see* **Shen, Hui et al.**

Lopez-Sanchez, J. *see* **Murciano, A. et al., 2005k:60034**

Lounesto, Pertti *see* **Abłamowicz, Rafał et al., 2005d:15001**

Martelli, Alberto *see* **Baldoni, Matteo et al., 2005e:68218**

Miroshnik, I. V. *see* **Burdakov, S. F. et al., 2005a:70008**

Murciano, A. (*with* Lopez-Sanchez, J.; Zamora, Javier; Rodríguez Santa María, Emilia) Approximating an expectation related to cooperative robots. (English summary) **2005k:60034**

Park, Sang-Min (*with* Lee, Jae-Ha; Chwa, Kyung-Yong) Visibility-based pursuit-evasion in a polygonal region by a searcher. (English summary) (*see* **2005a:68007**)

Patti, Viviana *see* **Baldoni, Matteo et al., 2005e:68218**

Pearson, K. J. (*with* Zhang, Tan) Topological complexity and motion planning in certain real Grassmannians. (English summary) **2005b:55003**

Pelc, Andrzej *see* **Dessmark, Anders, 2005e:68186**

Porteous, Ian *see* **Abłamowicz, Rafał et al., 2005d:15001**

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Ryan, John *see* **Abłamowicz, Rafał et al., 2005d:15001**

Samuélidès, Manuel *see* **Zenou, Emmanuel**

Selig, J. M. Clifford algebras in engineering. (English summary) (*see* **2005d:15001**)

— *see also* **Abłamowicz, Rafał et al., 2005d:15001**

Shen, Hui (*with* Wu, Xu-Zhong; Liu, Guan-Feng; Li, Ze-Xiang) A geometric method of singularity analysis for parallel robots. (English and Chinese summaries)

Shih, Frank Y. (*with* Gaddipati, Vijayalakshmi) Geometric modeling and representation based on sweep mathematical morphology. (English summary) **2005j:68112**

Skiadas, Photis *see* **Koussoulas, Nick T., 2005e:70002**

Sobczyk, Garret *see* **Abłamowicz, Rafał et al., 2005d:15001**

Soundaralakshmi, Subbiah *see* **Datta, Amitava, 2005b:68260**

Stel′makov, R. È. *see* **Burdakov, S. F. et al., 2005a:70008**

Sun, Zheng[1] (*with* Reif, John H.) Adaptive and compact discretization for weighted region optimal path finding. (English summary) **2005c:68276**

Suzuki, Ichiro[1] *see* **Yamashita, Masafumi et al., 2005c:68278**

Ventkatasubramanian, Suresh *see* **Efrat, Alon et al., 2005d:52027**

Watanabe, Keigo (*with* Hashem, M. M. A.) ★ Evolutionary computations. **2005c:93003**

Wu, Xu-Zhong *see* **Shen, Hui et al.**

Yamashita, Masafumi (*with* Suzuki, Ichiro[1]; Kameda, Tsunehiko) Searching a polygonal region by a group of stationary k-searchers. (English summary) **2005c:68278**
Yang, Yi-Peng *see* **Li, Shao Yuan[2] et al.**
Yuzvinsky, Sergey *see* **Farber, Michael S., 2005i:55019**
Zamora, Javier *see* **Murciano, A. et al., 2005k:60034**
Zenou, Emmanuel (*with* Samuélidès, Manuel) Galois lattice theory for probabilistic visual landmarks. (English summary)
Zhang, Bo[2] *see* **Zhang, Ling[1], 2005a:68181**
Zhang, Ling[1] (*with* Zhang, Bo[2]) The quotient space theory of problem solving. (English summary) **2005a:68181**
Zhang, Tan *see* **Pearson, K. J., 2005b:55003**
Zou, Tao *see* **Li, Shao Yuan[2] et al.**

Items listed otherwise than by author

Lectures on Clifford (geometric) algebras and applications *see* **Abłamowicz, Rafałet al., 2005d:15001**

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Albizuri, F. X. *see* **Raducanu, B. et al.**
d'Anjou, A. *see* **Raducanu, B. et al.**
Arbeláez, Pablo Andrés (*with* Cohen, Laurent D.) Energy partitions and image segmentation. (English summary) **2005c:68258**
Bazin, Pierre-Louis (*with* Boutin, Mireille) Structure from motion: a new look from the point of view of invariant theory. (English summary) **2005b:68250**
Bekker, Henk *see* **Roerdink, Jos B. T. M., (2005j:68006)**
Biedl, Therese (*with* Hasan, Masud; López-Ortiz, Alejandro) Efficient view point selection for silhouettes of convex polyhedra. (English summary) **2005m:68202**
Boutin, Mireille (*with* Kemper, Gregor) On reconstructing n-point configurations from the distribution of distances or areas. (English summary) **2005c:68259**
— *see also* **Bazin, Pierre-Louis, 2005b:68250**
Bribiesca, E. 3D-curve representation by means of a binary chain code. (English summary)
Brooks, Michael J. *see* **Chojnacki, Wojciech et al.**
Cakmakov, Dusan (*with* Celakoska, Emilija) Estimation of curve similarity using turning functions. (English summary) **2005f:68146**
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Chen, Guo Ping (*with* Zhang, Qing Liang) An improvement of the snake algorithm. (Chinese. English and Chinese summaries)
Chen, Songcan *see* **Zhang, Daoqiang et al.**
Chojnacki, Wojciech (*with* Brooks, Michael J.; van den Hengel, Anton; Gawley, Darren) FNS, CFNS and HEIV: a unifying approach. (English summary)
Cohen, Laurent D. *see* **Arbeláez, Pablo Andrés, 2005c:68258**
Cohen, Reuven (*with* Peleg, David) Robot convergence via center-of-gravity algorithms. (English summary)
Delon, Julie Midway image equalization. (English summary) **2005d:68130**
Dibos, Françoise (*with* Frosini, Patrizio; Pasquignon, Denis) The use of size functions for comparison of shapes through differential invariants. (English summary) **2005f:68147**
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Hasan, Masud *see* **Biedl, Therese et al., 2005m:68202**
van den Hengel, Anton *see* **Chojnacki, Wojciech et al.**
Kemper, Gregor *see* **Boutin, Mireille, 2005c:68259**
Košecká, Jana *see* **Ma, Yi[2] et al., 2005a:68198**
Liu, Jin[1] (*with* Zhang, Tian Xu) The generalization of moment invariants. (Chinese. English and Chinese summaries)
López-Ortiz, Alejandro *see* **Biedl, Therese et al., 2005m:68202**
Ma, Yi[2] (*with* Soatto, Stefano; Košecká, Jana; Sastry, S. Shankar) ★ An invitation to 3-D vision. **2005a:68198**
Maeda, Yoichi (*with* Maehara, Hiroshi) Observing an angle from various viewpoints. (English summary) (*see* **2005f:52002**)
Maehara, Hiroshi *see* **Maeda, Yoichi, (2005f:52002)**
Pasquignon, Denis *see* **Dibos, Françoise et al., 2005f:68147**
Peleg, David *see* **Cohen, Reuven**
Raducanu, B. (*with* Graña, Manuel; Albizuri, F. X.; d'Anjou, A.) A probabilistic hit-and-miss transform for face localization. (English summary)
Roerdink, Jos B. T. M. (*with* Bekker, Henk) Similarity measure computation of convex polyhedra revisited. (English summary) (*see* **2005j:68006**)
Rosenhahn, Bodo (*with* Sommer, Gerald) Pose estimation in conformal geometric algebra. I. The stratification of mathematical spaces. (English summary) **2005m:68203**
— (*with* Sommer, Gerald) Pose estimation in conformal geometric algebra. II. Real-time pose estimation using extended feature concepts. (English summary) **2005m:68204**
Samuélidès, Manuel *see* **Zenou, Emmanuel**
Sastry, S. Shankar *see* **Ma, Yi[2] et al., 2005a:68198**
Soatto, Stefano *see* **Ma, Yi[2] et al., 2005a:68198**
Sochen, Nir A. Affine invariant flows in the Beltrami framework. (English summary) **2005a:68199**
Sommer, Gerald *see* **Rosenhahn, Bodo, 2005m:68203** *and* **2005m:68204**
Sugihara, Kokichi Mathematics of pictures of impossible objects: human vision vs. robot vision [translation of Sūgaku **54** (2002), no. 1, 58–68; MR1918698 (2004h:68138)]. (*see* **2005a:00025**)
Suter, David (*with* Wang, Hanzi) Robust fitting using mean shift: applications in computer vision. (English summary) (*see* **2005c:62006**)
Veelaert, Peter Collinearity and weak collinearity in the digital plane. (English summary) (*see* **2005j:68006**)
Wang, Hanzi *see* **Suter, David, (2005c:62006)**
Wang, Qiang[5] (*with* Ai, Hai-Zhou; Xu, Guang You) Learning-based tracking of complex non-rigid motion. (English summary)
Williams, Lance R. *see* **Zweck, John, 2005d:68131**
Xu, Guang You *see* **Wang, Qiang[5] et al.**
Younes, Laurent ★ Invariance, déformations et reconnaissance de formes. (French) [Invariance, deformations and pattern recognition] **2005b:68252**
Zenou, Emmanuel (*with* Samuélidès, Manuel) Galois lattice theory for probabilistic visual landmarks. (English summary)
Zhang, Daoqiang (*with* Chen, Songcan; Zhou, Zhi-Hua) A new face recognition method based on SVD perturbation for single example image per person. (English summary)
Zhang, Qing Liang *see* **Chen, Guo Ping**
Zhang, Tian Xu *see* **Liu, Jin[1]**
Zhou, Zhi-Hua *see* **Zhang, Daoqiang et al.**
Zisserman, Andrew *see* **Hartley, Richard, 2005b:68251**
Zweck, John (*with* Williams, Lance R.) Euclidean group invariant computation of stochastic completion fields using shiftable-twistable functions. (English summary) **2005d:68131**

Items with secondary classifications in 68T45

Abłamowicz, Rafał (*with* Baylis, William E.; Branson, Thomas; Lounesto, Pertti; Porteous, Ian; Ryan, John; Selig, J. M.; Sobczyk, Garret) ★ Lectures on Clifford (geometric) algebras and applications. **2005d:15001**
Aliev, R. A. (*with* Guirimov, B. G.; Aliev, Rashad R.) A neuro-fuzzy graphic object classifier with modified distance measure estimator. (English summary)
Aliev, Rashad R. *see* **Aliev, R. A. et al.**
Al-Rawi, Mohammed *see* **Yang, Jie[3]**
Arnaud, Élise (*with* Mémin, Étienne; Cernuschi-Frías, Bruno) Conditional filters for image sequence-based tracking—application to point tracking. (English summary)
Arora, Sanjeev (*with* Khot, Subhash) Fitting algebraic curves to noisy data. (English summary) (*see* **2005i:68004**)
Basch, Julien (*with* Erickson, Jeff; Guibas, Leonidas J.; Hershberger, John; Zhang, Li[6]) Kinetic collision detection between two simple polygons. (English summary) **2005a:68048**
Baylis, William E. *see* **Abłamowicz, Rafałet al., 2005d:15001**
de Berg, Mark *see* **Haverkort, Herman J. et al., 2005a:68209**
(Bertrand, Gilles) *see* **Digital and image geometry, 2005j:68006**
Borisenko, G. V. (*with* Denisov, A. M.; Krylov, A. S.) On a method for the diffusion filtering of images. (Russian. Russian summary)
Boukerroui, Djamal (*with* Noble, J. Alison; Brady, John Michael) On the choice of band-pass quadrature filters. (English summary)
Brady, John Michael *see* **Boukerroui, Djamal et al.**
Branson, Thomas *see* **Abłamowicz, Rafałet al., 2005d:15001**
Brunnett, Guido *see* **Vanco, M., (2005f:65004)**
Burchard, P. *see* **Tsai, Yen-Hsi Richard et al., 2005c:35040**
Caulfield, H. John (*with* Fu, Jian; Yoo, Seong-Moo) Artificial color image logic. (English summary)
Cernuschi-Frías, Bruno *see* **Arnaud, Élise et al.**
Chambolle, Antonin An algorithm for total variation minimization and applications. (English summary) **2005m:49058**
Charpiat, Guillaume (*with* Faugeras, Olivier; Keriven, Renaud) Approximations of shape metrics and application to shape warping and empirical shape statistics. (English summary) **2005m:60014**
Chazelle, Bernard *see* **Kazhdan, Michael et al., 2005b:68266**
Chefd'hotel, C. (*with* Tschumperlé, D.; Deriche, Rachid; Faugeras, Olivier) Regularizing flows for constrained matrix-valued images. (English summary) **2005b:94004**
Chen, Gang[3] *see* **Feng, Zhi Lin et al.**
Chen, Xinkai (*with* Kano, Hiroyuki[1]) State observer for a class of nonlinear systems and its application to machine vision. (English summary) **2005g:93019**
Chen, Yun-mei *see* **Vemuri, Baba C., (2005a:94002)**
Chen, Zhen[1] (*with* Gao, Man Tun; Qu, Shi Ru; Yang, Sheng Yun) Reconstructing 3D motion and structure from straight-line optical flow. (Chinese. English and Chinese summaries)
Cheng, Li-Tien *see* **Tsai, Yen-Hsi Richard et al., 2005c:35040**
Coughlan, James M. (*with* Yuille, Alan L.) A large deviation theory analysis of Bayesian tree search. (English summary) **2005a:68192**
Coupier, David (*with* Desolneux, Agnès; Ycart, Bernard) A zero-one law for first-order logic on random images. (English summary) **2005f:03044**
Damon, James Smoothness and geometry of boundaries associated to skeletal structures. I. Sufficient conditions for smoothness. (English and French summaries) **2005d:58009**
De Floriani, Leila (*with* Kobbelt, Leif; Puppo, Enrico) A survey on data structures for level-of-detail models. (English summary) (*see* **2005j:68003**)
Denisov, A. M. *see* **Borisenko, G. V. et al.**
Deriche, Rachid *see* **Paragios, Nikos, 2005b:68280** *and* **Chefd'hotel, C. et al., 2005b:94004**
Desolneux, Agnès *see* **Coupier, David et al., 2005f:03044**
Dobkin, David *see* **Kazhdan, Michael et al., 2005b:68266**
Dong, Jin Xiang *see* **Feng, Zhi Lin et al.**
Dougherty, Edward R. A lattice-based minimal gray-scale switching algorithm for obtaining the optimal increasing filter from the optimal filter. (English summary)
Dzemyda, Gintautas Animated visual analysis of extremal problems. (English summary) (*see* **2005c:90002**)
Easley, Glenn R. (*with* Walnut, D. F.) Local multichannel deconvolution. (English summary) **2005c:94008**
Eidenbenz, Stephan Optimum inapproximability results for finding minimum hidden guard sets in polygons and terrains. (English summary) (*see* **2005a:68002**)
Erickson, Jeff *see* **Basch, Julien et al., 2005a:68048**
Falcidieno, Bianca *see* **Mortara, Michela et al., 2005a:68214**
Farin, Gerald *see* **Stylianou, Georgios, (2005a:65002)**

Faugeras, Olivier *see* **Chefd'hotel, C. et al., 2005b:94004** *and* **Charpiat, Guillaume et al., 2005m:60014**
Feng, Xiaobing (*with* Prohl, Andreas) Analysis of gradient flow of a regularized Mumford-Shah functional for image segmentation and image inpainting. (English summary) **2005f:35136**
Feng, Zhi Lin (*with* Yin, Jian Wei; Chen, Gang[3]; Dong, Jin Xiang) A finite element segmentation algorithm for Jacquard image. (Chinese. English and Chinese summaries)
Fu, Jian *see* **Caulfield, H. John et al.**
Funkhouser, Thomas *see* **Kazhdan, Michael et al., 2005b:68266**
Gaddipati, Vijayalakshmi *see* **Shih, Frank Y., 2005j:68112**
Gao, Man Tun *see* **Chen, Zhen[1] et al.**
Gavrilov, Martin (*with* Indyk, Piotr; Motwani, Rajeev; Ventkatasubramanian, Suresh) Combinatorial and experimental methods for approximate point pattern matching. (English summary) **2005a:68207**
Gefeller, O. *see* **Hothorn, Torsten et al., (2005b:62008)**
Gelli, Daniele (*with* Vitulano, Domenico) Exploiting light projection for shape from shading. (English summary)
Gil, Debora (*with* Radeva, Petia) Shape restoration via a regularized curvature flow. (English summary) **2005f:68156**
Gu, Xianfeng (*with* Wang, Yalin; Yau, Shing-Tung) Computing conformal invariants: period matrices. (English summary) **2005m:53019**
Gudmundsson, Joachim *see* **Haverkort, Herman J. et al., 2005a:68209**
Guibas, Leonidas J. *see* **Basch, Julien et al., 2005a:68048**
Guirimov, B. G. *see* **Aliev, R. A. et al.**
Haverkort, Herman J. (*with* de Berg, Mark; Gudmundsson, Joachim) Box-trees for collision checking in industrial installations. (English summary) **2005a:68209**
Hero, A. O., III *see* **Li, Jia[4], 2005a:68221**
Hershberger, John *see* **Basch, Julien et al., 2005a:68048**
Hintermüller, Michael (*with* Ring, Wolfgang) An inexact Newton-CG-type active contour approach for the minimization of the Mumford-Shah functional. (English summary) **2005d:65096**
Hothorn, Torsten (*with* Pal, I.; Gefeller, O.; Lausen, Berthold; Michelson, G.; Paulus, D.) Automated classification of optic nerve head topography images for glaucoma screening. (English summary) (*see* **2005b:62008**)
Huang, Jian Guo *see* **Mu, Jian-fei, 2005j:15014**
(Imiya, Atsushi) *see* **Digital and image geometry, 2005j:68006**
Indyk, Piotr *see* **Gavrilov, Martin et al., 2005a:68207**
Jin, Hailin *see* **Yezzi, Anthony et al., (2005a:94002)**
Kaminski, Jeremy Yirmeyahu (*with* Teicher, Mina) A general framework for trajectory triangulation. (English summary)
Kano, Hiroyuki[1] *see* **Chen, Xinkai, 2005g:93019**
Kazhdan, Michael (*with* Chazelle, Bernard; Dobkin, David; Funkhouser, Thomas; Rusinkiewicz, Szymon) A reflective symmetry descriptor for 3D models. (English summary) **2005b:68266**
Keriven, Renaud *see* **Charpiat, Guillaume et al., 2005m:60014**
Khot, Subhash *see* **Arora, Sanjeev, (2005i:68004)**
Kimmel, Ron *see* **Sochen, Nir A. et al., 2005g:94010**
(Klette, Reinhard) *see* **Digital and image geometry, 2005j:68006**
Kobbelt, Leif *see* **De Floriani, Leila et al., (2005j:68003)**
Kozera, Ryszard *see* **Noakes, J. Lyle, (2005j:68006)**
Krinidis, Stelios (*with* Pitas, Ioannis) Fast free-vibration modal analysis of 2-D physics-based deformable objects. (English summary) **2005j:65020**
Krylov, A. S. *see* **Borisenko, G. V. et al.**
Kühne, Gerald *see* **Weickert, Joachim, (2005a:94002)**
Lausen, Berthold *see* **Hothorn, Torsten et al., (2005b:62008)**
Leung, Henry *see* **Li, Winston**
Li, Jia[4] (*with* Hero, A. O., III) A fast spectral method for active 3D shape reconstruction. (English summary) **2005a:68221**
Li, Winston (*with* Leung, Henry) A maximum likelihood approach for image registration using control point and intensity. (English summary)
Lim, Ji-Young ★ Discrete scale-space formulation and multiscale edge extraction toward higher dimensions. (English, German and Korean summaries) **2005k:68214**
Lounesto, Pertti *see* **Abłamowicz, Rafałet al., 2005d:15001**
Maeda, Yoichi Viewing cube and its visual angles. (English summary) (*see* **2005f:52002**)
Malpica, J. A. *see* **Mena, J. B.**
Maybank, Stephen J. Fisher information and model selection for projective transformations of the line. (English summary) **2005c:62112**
Mémin, Étienne *see* **Arnaud, Élise et al.**
Mena, J. B. (*with* Malpica, J. A.) Color image segmentation based on three levels of texture statistical evaluation. (English summary)
Michelson, G. *see* **Hothorn, Torsten et al., (2005b:62008)**
Mortara, Michela (*with* Patanè, Giuseppe; Spagnuolo, Michela; Falcidieno, Bianca; Rossignac, Jaroslaw R.) Blowing bubbles for multi-scale analysis and decomposition of triangle meshes. (English summary) **2005a:68214**
Motwani, Rajeev *see* **Gavrilov, Martin et al., 2005a:68207**
Mu, Jian-fei (*with* Huang, Jian Guo) Some studies on finding the nearest volume-preserving matrix. (English and Chinese summaries) **2005j:15014**
Noakes, J. Lyle (*with* Kozera, Ryszard) The 2-D leap-frog: integrability, noise, and digitization. (English summary) (*see* **2005j:68006**)
Noble, J. Alison *see* **Boukerroui, Djamal et al.**
Osher, Stanley *see* **Tsai, Yen-Hsi Richard et al., 2005c:35040**
Pal, I. *see* **Hothorn, Torsten et al., (2005b:62008)**
Paragios, Nikos (*with* Rousson, Mikaël) Shape analysis towards model-based segmentation. (English summary) (*see* **2005a:94002**)
— (*with* Deriche, Rachid) Variational principles in optical flow estimation and tracking. (English summary) **2005b:68280**
Patanè, Giuseppe *see* **Mortara, Michela et al., 2005a:68214**
Paulus, D. *see* **Hothorn, Torsten et al., (2005b:62008)**
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Qu, Shi Ru *see* **Chen, Zhen[1] et al.**
Radeva, Petia *see* **Gil, Debora, 2005f:68156**
Raskhodnikova, Sofya Approximate testing of visual properties. (English summary) **2005c:68106**
Ring, Wolfgang *see* **Hintermüller, Michael, 2005d:65096**
Ronda, José Ignacio *see* **Valdés, Antonio, 2005m:68232**
Ros, Lluís (*with* Thomas, Federico) Geometric methods for shape recovery from line drawings of polyhedra. (English summary) **2005m:68229**
Rossignac, Jaroslaw R. *see* **Mortara, Michela et al., 2005a:68214**
Rousson, Mikaël *see* **Paragios, Nikos, (2005a:94002)**
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Sagiv, Chen *see* **Sochen, Nir A. et al., 2005g:94010**
Sapiro, Guillermo R. *see* **Tsai, Yen-Hsi Richard et al., 2005c:35040**
Selig, J. M. Clifford algebras in engineering. (English summary) (*see* **2005d:15001**)
— *see also* **Abłamowicz, Rafałet al., 2005d:15001**
Shih, Frank Y. (*with* Gaddipati, Vijayalakshmi) Geometric modeling and representation based on sweep mathematical morphology. (English summary) **2005j:68112**
Soatto, Stefano *see* **Yezzi, Anthony et al., 2005a:94008** *and* **(2005a:94002)**
Sobczyk, Garret *see* **Abłamowicz, Rafałet al., 2005d:15001**
Sochen, Nir A. (*with* Sagiv, Chen; Kimmel, Ron) Stereographic combing a porcupine or studies on direction diffusion in image processing. (English summary) **2005g:94010**
Spagnuolo, Michela *see* **Mortara, Michela et al., 2005a:68214**
(Stiehl, Siegfried H.) *see* **Lim, Ji-Young, 2005k:68214**
Stylianou, Georgios (*with* Farin, Gerald) Shape feature extraction. (English summary) (*see* **2005a:65002**)
Sveshnikova, N. V. (*with* Yurin, D. V.) A priori and a posteriori estimation of errors in the recovery of three-dimensional scenes by factorization algorithms. (Russian. Russian summary)
Teicher, Mina *see* **Kaminski, Jeremy Yirmeyahu**
Thomas, Federico *see* **Ros, Lluís, 2005m:68229**
Toussaint, Godfried The Erdős-Nagy theorem and its ramifications. (English summary) **2005m:52024**
Tsai, Andy *see* **Yezzi, Anthony et al., 2005a:94008** *and* **(2005a:94002)**
Tsai, Yen-Hsi Richard (*with* Cheng, Li-Tien; Osher, Stanley; Burchard, P.; Sapiro, Guillermo R.) Visibility and its dynamics in a PDE based implicit framework. (English summary) **2005c:35040**
Tschumperlé, D. *see* **Chefd'hotel, C. et al., 2005b:94004**
Valdés, Antonio (*with* Ronda, José Ignacio) Camera autocalibration and the calibration pencil. (English summary) **2005m:68232**
Vanco, M. (*with* Brunnett, Guido) Direct segmentation of algebraic models for reverse engineering. (English summary) (*see* **2005f:65004**)
Vemuri, Baba C. (*with* Chen, Yun-mei) Joint image registration and segmentation. (English summary) (*see* **2005a:94002**)
Ventkatasubramanian, Suresh *see* **Gavrilov, Martin et al., 2005a:68207**
Vitulano, Domenico *see* **Gelli, Daniele**
Walnut, D. F. *see* **Easley, Glenn R., 2005c:94008**
Wang, Yalin *see* **Gu, Xianfeng et al., 2005m:53019**
Weickert, Joachim (*with* Kühne, Gerald) Fast methods for implicit active contour models. (English summary) (*see* **2005a:94002**)
Willsky, Alan S. *see* **Yezzi, Anthony et al., 2005a:94008** *and* **(2005a:94002)**
Yang, Jie[3] (*with* Al-Rawi, Mohammed) Illumination invariant recognition of three-dimensional texture in color images. (English summary)
Yang, Sheng Yun *see* **Chen, Zhen[1] et al.**
Yau, Shing-Tung *see* **Gu, Xianfeng et al., 2005m:53019**
Ycart, Bernard *see* **Coupier, David et al., 2005f:03044**
Yezzi, Anthony (*with* Soatto, Stefano; Jin, Hailin; Tsai, Andy; Willsky, Alan S.) Mumford-Shah for segmentation and stereo. (English summary) (*see* **2005a:94002**)
— (*with* Soatto, Stefano; Tsai, Andy; Willsky, Alan S.) The Mumford-Shah functional: from segmentation to stereo. (English summary) **2005a:94008**
Yin, Jian Wei *see* **Feng, Zhi Lin et al.**
Yoo, Seong-Moo *see* **Caulfield, H. John et al.**
Yuille, Alan L. *see* **Coughlan, James M., 2005a:68192**
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Items listed otherwise than by author

Digital and image geometry ★ Digital and image geometry. **2005j:68006**
Lecture Notes in Computer Science ★ Digital and image geometry. **2005j:68006**
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Schloss Dagstuhl ★ Digital and image geometry. **2005j:68006**

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Abney, Steven Understanding the Yarowsky algorithm. (English summary) **2005d:68132**
Bogner, Robert E. *see* **Chew, Hong-Gunn et al., (2005m:90002)**
Branco, António Horta Anaphoric constraints and dualities in the semantics of nominals. (English summary)
Casacuberta Nolla, Francisco (*with* Vidal Ruiz, Enrique) Machine translation with inferred stochastic finite-state transducers. (English summary)
Castaño, José M. Global index grammars and descriptive power. (English summary)
Chew, Hong-Gunn (*with* Lim, Cheng-Chew; Bogner, Robert E.) An implementation of training dual-nu support vector machines. (English summary) (*see* **2005m:90002**)
Collins, Michael Head-driven statistical models for natural language parsing. (English summary)
— (*with* Koo, Terry) Discriminative reranking for natural language parsing. (English summary)

Curteanu, Neculai Contrastive meanings of the terms "predicative" and "predicational" in various linguistic theories. II. (English summary)
Cussens, James Issues in learning language in logic. (English summary) (*see* **2005f:68005b**)
Dahl, Veronica On implicit meanings. (English summary) (*see* **2005f:68005b**)
Fernando, Tim A finite-state approach to events in natural language semantics. (English summary) **2005d:68133**
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Frisch, Stefan *see* **beim Graben, Peter et al.**, **2005b:68253**
Fyodorov, Yaroslav (*with* Winter, Yoad; Francez, Nissim) Order-based inference in natural logic. (English summary) **2005a:68201**
Geman, Stuart (*with* Johnson, Mark Edward) Probability and statistics in computational linguistics, a brief review. (*see* **2005c:68009**)
beim Graben, Peter (*with* Jurish, Bryan; Saddy, J. Douglas; Frisch, Stefan) Language processing by dynamical systems. (English summary) **2005b:68253**
Graña, Jorge *see* **Vilares Ferro, Manuel et al.**, (**2005m:68009**)
Hwa, Rebecca Sample selection for statistical parsing. (English summary)
Jaeger, Efrat (*with* Francez, Nissim; Wintner, Shuly) Unification grammars and off-line parsability. (English summary) **2005k:68199**
Jansche, Martin Learning local transductions is hard. (English summary)
Jelinek, Frederick Stochastic analysis of structured language modeling. (English summary) **2005c:68260**
Johnson, Mark Edward *see* **Geman, Stuart**, (**2005c:68009**)
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Kallmeyer, Laura Tree-local multicomponent tree-adjoining grammars with shared nodes. (English summary) **2005m:68205**
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Kracht, Marcus Features in phonological theory. (English summary) (*see* **2005b:00026**)
Li, Cong *see* **Li, Hang**
Li, Hang (*with* Li, Cong) Word translation disambiguation using bilingual bootstrapping. (English summary)
Lim, Cheng-Chew *see* **Chew, Hong-Gunn et al.**, (**2005m:90002**)
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Mellish, Chris DCGs: parsing as deduction? (English summary) (*see* **2005f:68005b**)
Mihov, Stoyan (*with* Schulz, Klaus U.) Fast approximate search in large dictionaries. (English summary)
Nederhof, Mark-Jan (*with* Satta, Giorgio) IDL-expressions: a formalism for representing and parsing finite languages in natural language processing. (English summary) **2005j:68105**
— A general technique to train language models on language models. (English summary) **2005m:68206**
Otero, Juan *see* **Vilares Ferro, Manuel et al.**, (**2005m:68009**)
(Pāṇini) *see* **Petersen, Wiebke**
Petersen, Wiebke A mathematical analysis of Pāṇini's *Śivasūtras*. (English summary)
Ranta, Aarne Computational semantics in type theory. (English and French summaries) **2005a:68203**
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Vidal Ruiz, Enrique *see* **Casacuberta Nolla, Francisco**
Vilares Ferro, Manuel (*with* Otero, Juan; Graña, Jorge) Regional finite-state error repair. (English summary) (*see* **2005m:68009**)
Widdows, Dominic ★ Geometry and meaning.
Winter, Yoad *see* **Fyodorov, Yaroslav et al.**, **2005a:68201**
Wintner, Shuly *see* **Jaeger, Efrat et al.**, **2005k:68199**

Items with secondary classifications in 68T50

Althaus, Ernst (*with* Duchier, Denys; Koller, Alexander; Mehlhorn, Kurt; Niehren, Joachim; Thiel, Sven) An efficient graph algorithm for dominance constraints. (English summary) **2005g:68127**
Aoe, J. *see* **Kadoya, Y. et al.**
Areces, Carlos (*with* Bernardi, Raffaella) Analyzing the core of categorial grammar. (English summary) **2005c:03034**
Atlam, El-Sayed *see* **Kadoya, Y. et al.**
van Benthem, Johan Mathematical logic and natural language: life at the border. (English summary) (*see* **2005b:00026**)
Bernardi, Raffaella *see* **Areces, Carlos**, **2005c:03034**
Besombes, Jérôme (*with* Marion, Jean-Yves) Learning reversible categorial grammars from structures. (English summary) (*see* **2005d:68009**)
Bilmes, Jeffrey A. Graphical models and automatic speech recognition. (English summary) **2005c:68253**
Buszkowski, Wojciech Syntactic calculus and pregroups. (English summary) **2005a:03043**
— Type logics in grammar. (English summary) **2005b:03053**
Ceterchi, Rodica Marcus contextual grammars. (*see* **2005g:68088**)
Conan-Guez, Brieuc (*with* Rossi, Fabrice) Phoneme discrimination with functional multi-layer perceptrons. (English summary) (*see* **2005i:62003**)
Cucker, Felipe (*with* Smale, Stephen; Zhou, Ding-Xuan) Modeling language evolution. (English summary) **2005b:91192**
Du, Shi Ping (*with* Li, Hai) Second-order hidden Markov models and their application to computational linguistics. (Chinese. English and Chinese summaries) **2005a:60115**
Duchier, Denys *see* **Althaus, Ernst et al.**, **2005g:68127**
Fenstad, Jens Erik Tarski, truth and natural languages. (English summary) **2005a:03060**
Fujiyoshi, Akio Linearity and nondeletion on monadic context-free tree grammars. (English summary) **2005g:68064**
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Glöckner, Ingo Evaluation of quantified propositions in generalized models of fuzzy quantification. (English summary) **2005c:03055**
Grefenstette, Gregory *see* **Kilgarriff, Adam**
de Groote, Philippe (*with* Pogodalla, Sylvain) On the expressive power of abstract categorial grammars: representing context-free formalisms. (English summary) **2005k:03048**
(Johnson, Mark Edward) *see* **Mathematical foundations of speech and language processing**, **2005c:68009**
Kadoya, Y. (*with* Fuketa, M.; Atlam, El-Sayed; Morita, Kazuhiro; Sumitomo, Toru; Aoe, J.) A compression algorithm using integrated record information for translation dictionaries. (English summary)
Kepser, Stephan Querying linguistic treebanks with monadic second-order logic in linear time. (English summary) **2005h:68048**
(Khudanpur, Sanjeev P.) *see* **Mathematical foundations of speech and language processing**, **2005c:68009**
Kilgarriff, Adam (*with* Grefenstette, Gregory) Introduction to the special issue on the web as corpus. (English summary)
Kiślak-Malinowska, Aleksandra Conjoinability in pregroups. (English summary) **2005f:03029**
Koller, Alexander *see* **Althaus, Ernst et al.**, **2005g:68127**
Lee, Lillian Fast context-free grammar parsing requires fast Boolean matrix multiplication. (English summary) **2005m:68116**
Levinson, Stephen E. ★ Mathematical models for speech technology. **2005j:68001**
Li, Hai *see* **Du, Shi Ping**, **2005a:60115**
Marciniec, Jacek Optimal unification of infinite sets of types. (English summary) **2005m:03040**
Marion, Jean-Yves *see* **Besombes, Jérôme**, (**2005d:68009**)
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Mielniczuk, Pawel Basic theory of feature trees. (English summary) **2005c:68251**
Morita, Kazuhiro *see* **Kadoya, Y. et al.**
Nederhof, Mark-Jan Weighted deductive parsing and Knuth's algorithm. (English summary)
Niehren, Joachim (*with* Villaret, Mateu) Parallelism and tree regular constraints. (English summary) (*see* **2005c:68007**)
— *see also* **Althaus, Ernst et al.**, **2005g:68127**
Oflazer, Kemal Dependency parsing with an extended finite-state approach. (English summary)
(Ostendorf, Mari) *see* **Mathematical foundations of speech and language processing**, **2005c:68009**
Pogodalla, Sylvain *see* **de Groote, Philippe**, **2005k:03048**
van Rooij, Robert (*with* Schulz, Katrin) Exhaustive interpretation of complex sentences. (English summary)
(Rosenfeld, Roni) *see* **Mathematical foundations of speech and language processing**, **2005c:68009**
Rossi, Fabrice *see* **Conan-Guez, Brieuc**, (**2005i:62003**)
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Sumitomo, Toru *see* **Kadoya, Y. et al.**
Sun, Yu^2 (*with* Sui, Yue-Fei; Xia, You-Ming) Logical sentences as the intent of concepts. (English summary)
(Tarski, Alfred) *see* **Fenstad, Jens Erik**, **2005a:03060**
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Xia, You-Ming *see* **Sun, Yu^2 et al.**
Zhou, Ding-Xuan *see* **Cucker, Felipe et al.**, **2005b:91192**
Zinn, Claus ★ Understanding informal mathematical discourse. (English and German summaries)

Items listed otherwise than by author

Mathematical foundations of speech and language processing ★ Mathematical foundations of speech and language processing. **2005c:68009**
Minneapolis, MN ★ Mathematical foundations of speech and language processing. **2005c:68009**

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Berry, Anne (*with* Sigayret, Alain) Representing a concept lattice by a graph. (English summary) **2005e:68235**
Chang, Ming-Yuan *see* **Jea, Kuen-Fang et al.**
Chen, Guo Qing (*with* Yan, Peng^2; Kerre, Etienne E.) Computationally efficient mining for fuzzy implication-based association rules in quantitative databases. (English summary)
Chen, Yen-Liang *see* **Hsu, Ping-Yu et al.**
Chi, Zhong Xian *see* **Yan, De Qin et al.**
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Cotofrei, Paul (*with* Stoffel, Kilian) Higher order temporal rules. (English summary) (*see* **2005c:00014**)
Dai, Guozhong *see* **Luan, Shangmin**, (**2005g:65009**)
De Raedt, Luc Data mining as constraint logic programming. (English summary) (*see* **2005f:68005b**)
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Fomina, M. V. *see* **Vagin, Vadim N. et al.**
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Gao, Xie Ping *see* **Jia, Cai-Yan**
Hsu, Ping-Yu (*with* Chen, Yen-Liang; Ling, Chun-Ching) Algorithms for mining association rules in bag databases. (English summary)

Huang, Chongfu (*with* Moraga, Claudio) Extracting fuzzy if-then rules by using the information matrix technique. (English summary) **2005k:68200**
Jaroszewicz, Szymon (*with* Simovici, Dan A.; Rosenberg, Ivo G.) Measures on Boolean polynomials and their applications in data mining. (English summary) **2005e:68236**
Jea, Kuen-Fang (*with* Chang, Ming-Yuan; Lin, Ke-Chung) An efficient and flexible algorithm for online mining of large itemsets.
Jia, Cai-Yan (*with* Gao, Xie Ping) Multi-scaling sampling: an adaptive sampling method for discovering approximate association rules. (English summary)
Ju, Shi Guang *see* **Lu, Jie Ping et al.**
Kerre, Etienne E. *see* **Chen, Guo Qing et al.**
Kulikov, A. V. *see* **Vagin, Vadim N. et al.**
Lee, Suh-Yin *see* **Lin, Ming-Yen**
Li, Qing (*with* Feng, Ling; Wong, Allan) From intra-transaction to generalized inter-transaction: landscaping multidimensional contexts in association rule mining. (English summary)
Lin, Ke-Chung *see* **Jea, Kuen-Fang et al.**
Lin, Ming-Yen (*with* Lee, Suh-Yin) Interactive sequence discovery by incremental mining. (English summary)
Ling, Chun-Ching *see* **Hsu, Ping-Yu et al.**
Liu, Jun Qiang^2 (*with* Sun, Xiao Ying; Wang, Xun; Pan, Yun He) A new algorithm for mining maximal frequent patterns. (Chinese. English and Chinese summaries)
Liu, Lu *see* **Tian, Jinlan et al.**
Lu, Jie Ping (*with* Yang, Ming; Sun, Zhi Hui; Ju, Shi Guang) Fast mining of global maximum frequent itemsets. (Chinese. English and Chinese summaries)
Luan, Shangmin (*with* Dai, Guozhong) An algorithm for diagnosing system with structured description. (English summary) (*see* **2005g:65009**)
Ma, Shuai (*with* Tang, Shi Wei; Yang, Dong Qing; Wang, Teng Jiao; Gao, Jun^3) Mining maximal moving sequential patterns in mobile environment. (English and Chinese summaries)
Macula, Anthony J. (*with* Popyack, Leonard J.) A group testing method for finding patterns in data. (English summary) **2005h:68155**
Moraga, Claudio *see* **Huang, Chongfu, 2005k:68200**
Padmanabhan, Balaji The interestingness paradox in pattern discovery. (English summary) **2005j:68106**
Pan, Yun He *see* **Liu, Jun Qiang^2 et al.**
Pencolé, Yannick (*with* Cordier, Marie-Odile) A formal framework for the decentralised diagnosis of large scale discrete event systems and its application to telecommunication networks. (English summary) **2005m:68207**
Popyack, Leonard J. *see* **Macula, Anthony J., 2005h:68155**
Rosenberg, Ivo G. *see* **Jaroszewicz, Szymon et al., 2005e:68236**
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Sun, Zhi Hui *see* **Lu, Jie Ping et al.**
Tang, Shi Wei *see* **Ma, Shuai et al.**
Tian, Jinlan (*with* Zhu, Lin; Zhang, Suqin; Liu, Lu) Improvement and parallelism of k-means clustering algorithm. (English summary)
Torasso, Pietro (*with* Torta, Gianluca) Compact diagnoses representation in diagnostic problem solving. (English summary)
Torta, Gianluca *see* **Torasso, Pietro**
Vagin, Vadim N. (*with* Kulikov, A. V.; Fomina, M. V.) Methods in the theory of rough sets in the solution of the notion generation problem. (Russian. Russian summary)
Wang, Shu-Ching *see* **Yan, Kuo-Qin**
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Wang, Xun *see* **Liu, Jun Qiang^2 et al.**
Wong, Allan *see* **Li, Qing et al.**
Yan, De Qin (*with* Chi, Zhong Xian; Zhang, Min) A new algorithm for the core of an information system. (Chinese. English and Chinese summaries)
Yan, Kuo-Qin (*with* Wang, Shu-Ching) Reaching fault diagnosis agreement on an unreliable general network. (English summary)
Yan, Peng^2 *see* **Chen, Guo Qing et al.**
Yang, Dong Qing *see* **Ma, Shuai et al.**
Yang, Ming *see* **Lu, Jie Ping et al.**
Zhang, Min *see* **Yan, De Qin et al.**
Zhang, Suqin *see* **Tian, Jinlan et al.**
Zhu, Lin *see* **Tian, Jinlan et al.**

Items with secondary classifications in 68T99

von Ahn, Luis (*with* Blum, Manuel; Hopper, Nicholas J.; Langford, John) CAPTCHA: using hard AI problems for security. (English summary) **2005e:94222**
Anderson, Brian D. O. *see* **Eren, Tolga et al., 2005m:68163**
Araabi, Babak N. *see* **Hatami, S. et al.**
Archer, Aaron (*with* Papadimitriou, Christos H.; Talwar, Kunal; Tardos, Éva) An approximate truthful mechanism for combinatorial auctions with single parameter agents. (English summary) **2005b:91089**
Bădoiu, Mihai (*with* Har-Peled, Sariel; Indyk, Piotr) Approximate clustering via core-sets. (English summary) (*see* **2005i:68004**)
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Calvert, Bruce D. *see* **Marinov, Corneliu A., 2005b:34101**
Cao, Yongqiang A convergence theorem related to iterative mean clustering. (English summary) **2005i:91094**
de Carvalho, Francisco de A. T. (*with* de Souza, Renata M. C. R.; Verde, Rosanna) A modal symbolic pattern classifier. (English summary) (*see* **2005f:62007**)
Chen, Guo Qing *see* **Yan, Peng^2**
Cheng, Shein-Yun *see* **Heh, Jia-Sheng et al.**
Chiu, David K. Y. (*with* Wong, Andrew K. C.) Multiple pattern associations for interpreting structural and functional characteristics of biomolecules. (English summary)
Cornforth, David (*with* Green, David G.; Newth, David) Ordered asynchronous processes in multi-agent systems. (English summary)
Eren, Tolga (*with* Anderson, Brian D. O.; Morse, A. Stephen; Whiteley, Walter; Belhumeur, Peter N.) Operations on rigid formations of autonomous agents. (English summary) **2005m:68163**
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Hand, David J. (*with* Bolton, Richard J.) Pattern discovery and detection: a unified statistical methodology. (English summary) **2005j:62132**
Har-Peled, Sariel *see* **Bădoiu, Mihai et al., (2005i:68004)**
Harrenstein, Paul (*with* van der Hoek, Wiebe; Meyer, John-Jules Ch.; Witteveen, Cees) A modal characterization of Nash equilibrium. (English summary) **2005b:91037**
Hatami, S. (*with* Araabi, Babak N.; Lucas, Caro) A new fuzzy morphology approach based on the fuzzy-valued generalized Dempster-Shafer theory. (English summary)
Heh, Jia-Sheng (*with* Cheng, Shein-Yun; Hsu, Chang-Kai) Nested state-transition graph data sequencing model with hierarchical taxonomy through radix coding. (English summary)
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Hopper, Nicholas J. *see* **von Ahn, Luis et al., 2005e:94222**
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Indyk, Piotr *see* **Bădoiu, Mihai et al., (2005i:68004)**
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Langford, John *see* **von Ahn, Luis et al., 2005e:94222**
Lucas, Caro *see* **Hatami, S. et al.**
Maji, Pradipta (*with* Shaw, Chandrama; Ganguly, Niloy; Sikdar, Biplab K.; Pal Chaudhuri, Parimal) Theory and application of cellular automata for pattern classification. (English summary) **2005d:68095**
Marinov, Corneliu A. (*with* Calvert, Bruce D.) Sorting with dynamical systems of neural type. (English summary) **2005b:34101**
Meyer, John-Jules Ch. *see* **Harrenstein, Paul et al., 2005b:91037**
Morse, A. Stephen *see* **Eren, Tolga et al., 2005m:68163**
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Perevozchikova, O. L. (*with* Tul'chinskiĭ, V. G.; Kharchenko, AndreĭVyacheslavovich) On specific features of minimizing the risk functional in large data sets. (Russian. English and Ukrainian summaries)
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Rickard, Scott *see* **Yılmaz, Özgür, 2005e:94039**
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Shaw, Chandrama *see* **Maji, Pradipta et al., 2005d:68095**
Sikdar, Biplab K. *see* **Maji, Pradipta et al., 2005d:68095**
Solimanpur, M. (*with* Vrat, P.; Shankar, Ravi) Ant colony optimization algorithm to the inter-cell layout problem in cellular manufacturing. (English summary)
de Souza, Renata M. C. R. *see* **de Carvalho, Francisco de A. T. et al., (2005f:62007)**
Sulis, William H. Archetypal dynamics: an approach to the study of emergence. (English summary) (*see* **2005f:92001**)
Talwar, Kunal The price of truth: frugality in truthful mechanisms. (English summary) **2005b:68206**
— *see also* **Archer, Aaron et al., 2005b:91089**
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Witteveen, Cees *see* **Harrenstein, Paul et al., 2005b:91037**
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Yan, Peng^2 (*with* Chen, Guo Qing) Discovering a cover set of ARsi with hierarchy from quantitative databases. (English summary)
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— (*with* Govindarajan, Sathish; Muthukrishnan, S. Muthu) Range searching in categorical data: colored range searching on grid. (English summary) (*see* **2005c:68002**)
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Aloupis, Greg (*with* Demaine, Erik D.; Dujmović, Vida; et al.) Flat-state connectivity of linkages under dihedral motions. (English summary) (*see* **2005b:68004**)
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Aronov, Boris (*with* Koltun, Vladlen; Sharir, Micha) Cutting triangular cycles of lines in space. (English summary) **2005j:68107**
— (*with* Brönnimann, Hervé; Chang, Allen Y.; Chiang, Yi-Jen) Cost-driven octree construction schemes: an experimental study. (English summary) **2005k:68201**
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Barmak, A. V. Information computer technology for modeling and controlling manipulator and virtual systems. (Russian. English, Russian and Ukrainian summaries)
Beletskyy, Volodymyr Finding coarse grained parallelism in computational geometry algorithms. (English summary) (*see* **2005i:00014**)
Belyaev, A. G. *see* **Ohtake, Yutaka et al.**, (**2005j:68003**)
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— *see also* **Haverkort, Herman J. et al.**, **2005a:68209** *and* **Cabello, Sergio et al.**, **2005k:68202**
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— (*with* Maheshwari, Anil; Narasimhan, Giri; Smid, Michiel; Zeh, Norbert) Approximating geometric bottleneck shortest paths. (English summary) **2005e:68237**
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— (*with* Demaine, Erik D.; Erickson, Jeff; Iacono, John; Langerman, Stefan; Morin, Pat; Toussaint, Godfried) Output-sensitive algorithms for computing nearest-neighbour decision boundaries. (English summary) **2005m:68210**
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— (*with* Glisse, Marc) Cost-optimal trees for ray shooting. (English summary) (*see* **2005d:68010**)
— (*with* Iacono, John; Katajainen, Jyrki; Morin, Pat; Morrison, Jason; Toussaint, Godfried) Space-efficient planar convex hull algorithms. **2005g:68168**
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Balogh, József (*with* Regev, Oded; Smyth, Clifford; Steiger, William; Szegedy, Mario) Long monotone paths in line arrangements. (English summary) **2005e:52033**
Barequet, Gill The on-line Heilbronn's triangle problem in three and four dimensions. (English summary) **2005a:68069**
Barthe, Loïc (*with* Gérot, Cédric; Sabin, Malcolm A.; Kobbelt, Leif) Simple computation of the eigencomponents of a subdivision matrix in the Fourier domain. (English summary) (*see* **2005j:68003**)
— *see also* **Gérot, Cédric et al., (2005j:68003)**
Basch, Julien (*with* Erickson, Jeff; Guibas, Leonidas J.; Hershberger, John; Zhang, Li[6]) Kinetic collision detection between two simple polygons. (English summary) **2005a:68048**
Belhumeur, Peter N. *see* **Eren, Tolga et al., 2005m:68163**
Below, Alexander (*with* De Loera, Jesús A.; Richter-Gebert, Jürgen) The complexity of finding small triangulations of convex 3-polytopes. (English summary) **2005d:68061**
Bereg, Sergei An approximate morphing between polylines. (English summary) **2005j:52029**
— On partitioning a cake. (English summary) **2005i:52001**
— (*with* Kirkpatrick, David) Constrained equitable 3-cuttings. (English summary) **2005i:52002**
— An approximate morphing between polylines. (English summary) **2005k:52028**
— *see also* **Averbakh, Igor, 2005m:90056**
Berg, Alex R. (*with* Jordán, Tibor) Algorithms for graph rigidity and scene analysis. (English summary) (*see* **2005c:68003**)
Bergey, Antoine *see* **Lienhardt, Pascal et al., 2005e:57007**
Berry, Anne (*with* Heggernes, Pinar; Villanger, Yngve) A vertex incremental approach for dynamically maintaining chordal graphs. (English summary) (*see* **2005c:68004**)
(Bertrand, Gilles) *see* **Digital and image geometry, 2005j:68006**
Betke, Ulrich Relaxation, new combinatorial and polynomial algorithms for the linear feasibility problem. (English summary) **2005c:90068**
Bhattacharya, Binay (*with* Mukhopadhyay, Asish) On the minimum perimeter triangle enclosing a convex polygon. (English summary) **2005g:52020**
Biedl, Therese (*with* Hasan, Masud; López-Ortiz, Alejandro) Efficient view point selection for silhouettes of convex polyhedra. (English summary) **2005m:68202**
— (*with* Lubiw, Anna; Sun, Julie) When can a net fold to a polyhedron? (English summary) **2005m:52019**
Binucci, Carla (*with* Didimo, Walter; Liotta, Giuseppe; Nonato, Maddalena) Computing labeled orthogonal drawings. (English summary) (*see* **2005a:68014**)
Blandford, Daniel K. (*with* Blelloch, Guy E.; Cardoze, David E.; Kadow, Clemens) Compact representations of simplicial meshes in two and three dimensions. (English summary) **2005k:65026**
Blelloch, Guy E. *see* **Blandford, Daniel K. et al., 2005k:65026**
Boada, Imma (*with* Coll, Narcís; Sellarès, J. Antoni) Dynamically maintaining a hierarchical planar Voronoi diagram approximation. (English summary) (*see* **2005i:00014**)
Bodlaender, Hans L. (*with* Tel, Gerard) A note on rectilinearity and angular resolution. (English summary) **2005g:68128**
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Bose, Prosenjit (*with* Maheshwari, Anil; Narasimhan, Giri; Smid, Michiel; Zeh, Norbert) Approximating geometric bottleneck shortest paths. (English summary) **2005c:68217**
— (*with* Morin, Pat) Online routing in triangulations. (English summary) **2005b:65017**
— (*with* Gudmundsson, Joachim; Smid, Michiel) Constructing plane spanners of bounded degree and low weight. (English summary) **2005m:52020**
Botana Ferreiro, F. (*with* Valcarce, José L.) Automatic determination of envelopes and other derived curves within a graphic environment. (English summary)
Brahma, Siddhartha (*with* Pal, Sudebkumar Prasant; Sarkar, Dilip) A linear worst-case lower bound on the number of holes inside regions visible due to multiple diffuse reflections. (English summary) **2005k:52047**
Brandes, Ulrik (*with* Cornelsen, Sabine; Fieß, Christian; Wagner, Dorothea) How to draw the minimum cuts of a planar graph. (English summary) **2005e:05033**
Brazil, Marcus (*with* Nielsen, Benny K.; Winter, Pawel; Zachariasen, Martin) Rotationally optimal spanning and Steiner trees in uniform orientation metrics. (English summary) **2005f:05157**
Bremner, David (*with* Hurtado, Ferran; Ramaswami, Suneeta; Sacristán, Vera) Small strictly convex quadrilateral meshes of point sets. (English summary) **2005d:65016**
— *see also* **Aichholzer, Oswin et al., 2005g:91059**
Brodal, Gerth Stølting (*with* Fagerberg, Rolf) Cache oblivious distribution sweeping. (English summary) (*see* **2005a:68008**)
Brun, Luc (*with* Kropatsch, Walter) Introduction to combinatorial pyramids. (English summary) (*see* **2005j:68006**)
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Bryant, Robert L. (*with* Edelsbrunner, Herbert; Koehl, Patrice; Levitt, Michael) The area derivative of a space-filling diagram. (English summary) **2005k:92077**
Burago, D. (*with* Grigor'ev, D. Yu.; Slissenko, A. O.) Approximating shortest path for the skew lines problem in time doubly logarithmic in 1/epsilon. (English summary) **2005c:68083**
Cardoze, David E. *see* **Blandford, Daniel K. et al., 2005k:65026**
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Chalmoviansk\u00fd, P. (*with* Jüttler, Bert) Fairness criteria for algebraic curves. (English summary) **2005k:65027**
Chan, Bin *see* **Wang, Wen Ping[1] et al., (2005f:65004)**
Chan, Timothy M. Dynamic subgraph connectivity with geometric applications. (English summary) (*see* **2005i:68004**)
Charikar, Moses S. (*with* Indyk, Piotr; Panigrahy, Rina) New algorithms for subset query, partial match, orthogonal range searching, and related problems. (English summary) (*see* **2005a:68008**)
Chassery, Jean-Marc *see* **Sivignon, Isabelle et al., 2005a:68222**
Chazelle, Bernard *see* **Ailon, Nir, 2005j:68038**
Chen, Chun-Yen (*with* Cheng, Kuo-Young) A sharpness dependent filter for mesh smoothing. (English summary)
Chen, Danny Z. (*with* Hu, Xiaobo S.; Luan, Shuang; Wu, Xiaodong[1]; Yu, Cedric X.) Optimal terrain construction problems and applications in intensity-modulated radiation therapy. (English summary) **2005m:92016**
— *see also* **Huang, Yingping et al., 2005e:65023**
Chen, Min[8] (*with* Arvo, James) Analytical solution for irradiance due to inhomogeneous Lambertian polygonal emitters. (English summary) **2005b:78002**
Chen, Ying[6] *see* **Li, Hong Bo, 2005b:52030**
Cheng, Kuo-Young *see* **Chen, Chun-Yen**
Chepoi, Victor D. (*with* Fanciullini, Clémentine; Vaxès, Yann) Median problem in some plane triangulations and quadrangulations. (English summary) **2005d:52026**
Chiang, Yi-Jen (*with* Lenz, Tobias; Lu, Xiang; Rote, Günter) Simple and optimal output-sensitive construction of contour trees using monotone paths. (English summary) **2005h:52016**
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Chun, Jinhee (*with* Sadakane, Kunihiko; Tokuyama, Takeshi) Efficient algorithms for constructing a pyramid from a terrain. (English summary) **2005g:52036**
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Cohen-Or, Daniel *see* **Lee, Yunjin et al.**
Cole-McLaughlin, Kree (*with* Edelsbrunner, Herbert; Harer, John; Natarajan, Vijay; Pascucci, Valerio) Loops in Reeb graphs of 2-manifolds. (English summary) **2005c:57003**
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Cornelsen, Sabine *see* **Brandes, Ulrik et al.**, **2005e:05033**
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Czyzowicz, Jurek (*with* Kranakis, Evangelos; Krizanc, Danny; Urrutia, Jorge) Discrete realizations of contact and intersection graphs. (English summary) **2005g:68130**
— *see also* **Csizmadia, György et al.**, **2005b:05061**
Dai, H. K. (*with* Su, H. C.) On the locality properties of space-filling curves. (English summary) (*see* **2005c:68004**)
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Damian, Mirela Exact and approximation algorithms for computing optimal fat decompositions. (English summary) **2005e:65022**
Damon, James Smoothness and geometry of boundaries associated to skeletal structures. I. Sufficient conditions for smoothness. (English and French summaries) **2005d:58009**
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Datta, Amitava *see* **Pal, Srimanta et al.**
De Floriani, Leila (*with* Kobbelt, Leif; Puppo, Enrico) A survey on data structures for level-of-detail models. (English summary) (*see* **2005j:68003**)
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Dellas, Spyridon *see* **Kaklis, Panagiotis**, **2005m:65025**
De Loera, Jesús A. (*with* Hemmecke, Raymond; Tauzer, Jeremiah; Yoshida, Ruriko) Effective lattice point counting in rational convex polytopes. (English summary) **2005i:52020**
— *see also* **Below, Alexander et al.**, **2005d:68061**
Demaine, Erik D. (*with* Langerman, Stefan; O'Rourke, Joseph) Geometric restrictions on producible polygonal protein chains. (English summary) (*see* **2005c:68004**)
— (*with* Eppstein, David; Erickson, Jeff; Hart, George W.; O'Rourke, Joseph) Vertex-unfoldings of simplicial manifolds. (English summary) **2005b:52028**
— (*with* Demaine, Martin L.; Eppstein, David; Frederickson, Greg N.; Friedman, Erich) Hinged dissection of polyominoes and polyforms. (English summary) **2005m:52017**
— *see also* **Aichholzer, Oswin et al.**, **2005g:91059** *and* **Hearn, Robert A.**, (**2005a:68008**)
Demaine, Martin L. *see* **Demaine, Erik D. et al.**, **2005m:52017**
Desbarats, Pascal (*with* Gueorguieva, Stefka) CW complexes: topological mainframe for numerical representations of objects. (English summary) (*see* **2005i:00014**)
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Di Giacomo, Emilio (*with* Didimo, Walter; Liotta, Giuseppe; Wismath, Stephen K.) Drawing planar graphs on a curve. (English summary) **2005c:05145**
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Dong, Shen (*with* Kircher, S.; Garland, M.) Harmonic functions for quadrilateral remeshing of arbitrary manifolds. (English summary)
Du, Qiang (*with* Wang, Desheng) Anisotropic centroidal Voronoi tessellations and their applications. (English summary) **2005k:65031**
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Dumitrescu, Adrian Monotone paths in line arrangements with a small number of directions. (English summary) **2005k:52044**
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— (*with* Kobourov, Stephen G.) Polar coordinate drawing of planar graphs with good angular resolution. (English summary) **2005h:68119**
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Eckhardt, Ulrich (*with* Reiter, Helene) Polygonal representations of digital sets. (English summary) **2005f:68155**
Edalat, Abbas (*with* Heckmann, Reinhold) Computing with real numbers. I. The LFT approach to real number computation. II. A domain framework for computational geometry. (English summary) (*see* **2005b:68006**)
Edelsbrunner, Herbert (*with* Üngör, Alper) Relaxed scheduling in dynamic skin triangulation. (English summary) **2005h:65028**
— *see also* **Cole-McLaughlin, Kree et al.**, **2005c:57003** *and* **Bryant, Robert L. et al.**, **2005k:92077**
Effantin, Brice Generation of valid labeled binary trees. (English summary) (*see* **2005g:65008**)
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(Emmer, Michele) *see* **Mathematics and culture. II**, **2005i:00002**
Eppstein, David *see* **Demaine, Erik D. et al.**, **2005b:52028** *and* **2005m:52017**
Eren, Tolga (*with* Anderson, Brian D. O.; Morse, A. Stephen; Whiteley, Walter; Belhumeur, Peter N.) Operations on rigid formations of autonomous agents. (English summary) **2005m:68163**
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Even, Guy (*with* Rawitz, Dror; Shahar, Shimon) Hitting sets when the VC-dimension is small. (English summary) **2005m:68253**
Fagerberg, Rolf *see* **Brodal, Gerth Stølting**, (**2005a:68008**)
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(Farin, Gerald) *see* **Geometric modelling**, **2005f:65004** *and* **2005g:65010**
Feldman, Sharona (*with* Sharir, Micha) An improved bound for joints in arrangements of lines in space. (English summary) **2005k:52045**
Felsner, Stefan (*with* Liotta, Giuseppe; Wismath, Stephen K.) Straight-line drawings on restricted integer grids in two and three dimensions. (English summary) **2005h:68120**
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Fiala, Jiří (*with* Kratochvíl, Jan; Proskurowski, Andrzej) Geometric systems of disjoint representatives. (English summary) (*see* **2005a:68014**)
Fieß, Christian *see* **Brandes, Ulrik et al.**, **2005e:05033**
de Figueiredo, Luiz Henrique (*with* Stolfi, Jorge) Affine arithmetic: concepts and applications. (English summary)
Floater, Michael S. (*with* Hormann, Kai) Surface parameterization: a tutorial and survey. (English summary) (*see* **2005j:68003**)
— *see also* **Advances in multiresolution for geometric modelling**, **2005j:68003**
(Förstner, Wolfgang) *see* **Heuel, Stephan**, **2005e:62003**
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Friedman, Erich *see* **Demaine, Erik D. et al.**, **2005m:52017**
Fu, Camel Y. *see* **Shih, Frank Y. et al.**
Fukuda, Komei From the zonotope construction to the Minkowski addition of convex polytopes. (English summary) **2005f:52016**
Gallier, Jean *see* **Ramaswami, Suneeta et al.**, **2005k:65041**
Gan, Jia Fu (*with* Yang, Xun Nian; Zhao, Yan) An optimized algorithm for mesh parameterization. (Chinese. English and Chinese summaries) **2005k:65033**
Gao, Jie[1] (*with* Gupta, Rakesh[2]) Efficient proximity search for 3-D cuboids. (English summary) (*see* **2005i:00014**)
Gao, Xiao-Shan (*with* Li, Ming[1]) Rational quadratic approximation to real algebraic curves. (English summary) **2005j:65012**
Garg, Ashim (*with* Rusu, Adrian) Area-efficient order-preserving planar straight-line drawings of ordered trees. (English summary) (*see* **2005a:05002**)
Garland, M. *see* **Dong, Shen et al.**
Gąsieniec, Leszek *see* **Csizmadia, György et al.**, **2005b:05061**
Gee, James *see* **Ramaswami, Suneeta et al.**, **2005k:65041**
Gérot, Cédric (*with* Barthe, Loïc; Dodgson, Neil A.; Sabin, Malcolm A.) Subdivision as a sequence of sampled C^p surfaces. (English summary) (*see* **2005j:68003**)
— *see also* **Barthe, Loïc et al.**, (**2005j:68003**)
(Goldman, Ronald N.) *see* **Geometric modelling**, **2005f:65004** *and* **2005g:65010**
Golin, Mordecai J. (*with* Langerman, Stefan; Steiger, William) The convex hull for random lines in the plane. (English summary) **2005g:52013**
Gomes, Abel J. P. *see* **Morgado, Francisco**, (**2005i:00014**)
(Goodman, Jacob E.) *see* **Handbook: Discrete and computational geometry**, **2005j:52001**
Gotsman, Craig (*with* Kobbelt, Leif) Editorial [Special issue on geometry processing].
Grigor′ev, D. Yu. *see* **Burago, D. et al.**, **2005c:68083**
Gu, Xianfeng (*with* Wang, Yalin; Yau, Shing-Tung) Computing conformal invariants: period matrices. (English summary) **2005m:53019**
— (*with* Wang, Yalin; Yau, Shing-Tung) Geometric compression using Riemann surface structure. (English summary) **2005m:53005**
Gudmundsson, Joachim *see* **Andersson, Mattias et al.**, **2005h:52014** *and* **Bose, Prosenjit et al.**, **2005m:52020**
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Haas, Ruth (*with* Orden Martín, David; Rote, Günter; Santos, Francisco; Servatius, Brigitte; Servatius, Herman; Souvaine, D. L.; Streinu, Ileana; Whiteley, Walter) Planar minimally rigid graphs and pseudo-triangulations. (English summary) **2005m:05070**
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— *see also* **Agarwal, Pankaj K. et al.**, (**2005c:68002**)
Hart, George W. *see* **Demaine, Erik D. et al.**, **2005b:52028**
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Hearn, Robert A. (*with* Demaine, Erik D.) The nondeterministic constraint logic model of computation: reductions and applications. (English summary) (*see* **2005a:68008**)
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Heggernes, Pinar *see* **Berry, Anne et al.**, (**2005c:68004**)
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Heuel, Stephan ★ Uncertain projective geometry. **2005e:62003**
Hillman, Jonathan A. *see* **Hong, Seok Hee[2] et al.**, **2005g:68133**
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Hu, Xiaobo S. *see* **Chen, Danny Z. et al.**, **2005m:92016**
Huang, Yingping (*with* Xu, Jinhui; Chen, Danny Z.) Geometric permutations of higher dimensional spheres. (English summary) **2005e:65023**

Hurtado, Ferran (*with* Seara, Carlos; Sethia, Saurabh) Red-blue separability problems in 3D. (English summary) (*see* **2005i:00014**)
— *see also* **Bremner, David et al., 2005d:65016**; **Aichholzer, Oswin et al., 2005e:05030** *and* **2005g:91059**
Icking, Christian (*with* Klein, Rolf; Langetepe, Elmar; Schuierer, Sven; Semrau, Ines) An optimal competitive strategy for walking in streets. (English summary) **2005e:68095**
Idwan, Sahar (*with* Mehta, Dinesh P.; López, Mario Alberto) Fast pursuit of mobile nodes using TPR trees. (English summary) **2005f:68022**
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(Imiya, Atsushi) *see* **Digital and image geometry, 2005j:68006**
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— (*with* Dodgson, Neil A.; Sabin, Malcolm A.) $\sqrt{3}$-subdivision. (English summary) (*see* **2005j:68003**)
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Johnstone, J. K. The Bézier tangential surface system: a robust dual representation of tangent space. (English summary) **2005h:65019**
Jordán, Tibor *see* **Berg, Alex R., (2005c:68003)**
Joswig, Michael (*with* Ziegler, Günter M.) Convex hulls, oracles, and homology. (English summary) **2005h:52017**
Joy, Kenneth I. (*with* Legakis, Justin; MacCracken, Ron) Data structures for multiresolution representation of unstructured meshes. (English summary) (*see* **2005a:65002**)
— *see also* **Linsen, Lars et al., 2005f:42091**
Jüttler, Bert *see* **Chalmoviansky, P., 2005k:65027**
Kadow, Clemens *see* **Blandford, Daniel K. et al., 2005k:65026**
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van der Kallen, Wilberd *see* **Lindenbergh, Roderik et al., 2005c:52010**
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Karpinski, Marek *see* **Fernandez de la Vega, Wenceslao et al., 2005j:68127**
Kato, Ryo[1] (*with* Imai, Keiko; Asano, Takao) An improved algorithm for the minimum Manhattan network problem. (English summary) (*see* **2005b:68004**)
Kenyon, Claire (*with* Rabani, Yuval; Sinclair, Alistair) Low distortion maps between point sets. (English summary) **2005j:68057**
— *see also* **Fernandez de la Vega, Wenceslao et al., 2005j:68127**
Khot, Subhash *see* **Jayram, T. S. et al., 2005e:68077**
Kim, ChangHun *see* **Oh, BeomSoo, (2005i:00014)**
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Kim, Myung Soo *see* **Wang, Wen Ping[1] et al., (2005f:65004)**
Kircher, S. *see* **Dong, Shen et al.**
Kirkpatrick, David *see* **Bereg, Sergei, 2005i:52002**
Klein, Rolf Foreword [Special issue on the 19th European Workshop on Computational Geometry—EuroCG 03].
— *see also* **Icking, Christian et al., 2005e:68095**
(Klette, Reinhard) *see* **Digital and image geometry, 2005j:68006**
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Kobourov, Stephen G. *see* **Duncan, Christian A., 2005h:68119**
Koehl, Patrice *see* **Bryant, Robert L. et al., 2005k:92077**
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Kovalevskiĭ, V. A. Algorithms and data structures for computer topology. (English summary) (*see* **2005j:68006**)
Koźniewski, Edwin Geometry of roofs from the view point of graph theory. (English summary)
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Kratochvíl, Jan *see* **Fiala, Jiří et al., (2005a:68014)**
van Kreveld, Marc (*with* Speckmann, Bettina) Cutting a country for smallest square fit. (English summary) (*see* **2005b:68004**)
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Kropatsch, Walter *see* **Brun, Luc, (2005j:68006)**
Krtolica, Predrag V. (*with* Stanimirović, Predrag S.; Stanojević, Rade) Reverse Polish notation in constructing the algorithm for polygon triangulation. (English summary) **2005g:68203**
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— (*with* Steiger, William) Optimization in arrangements. (English summary) **2005c:90075**
— (*with* Morin, Pat) Covering things with things. (English summary) **2005k:52030**
— *see also* **Golin, Mordecai J. et al., 2005g:52013** *and* **Demaine, Erik D. et al., (2005c:68004)**
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Lindenbergh, Roderik (*with* van der Kallen, Wilberd; Siersma, Dirk) Configuration spaces and limits of Voronoi diagrams. (English summary) **2005c:52010**
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Mount, David M. Editorial [Special issue on the 19th Annual Symposium on Computational Geometry].
Muhlenbach, Fabrice *see* **Zighed, Djamel A. et al.**
Mukhopadhyay, Asish (*with* Rao, Seela Veerabhadreswara) Computing a largest empty arbitrary oriented rectangle: theory and implementation. (English summary) (*see* **2005i:00014**)
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— Non-stretchable pseudo-visibility graphs. (English summary) **2005m:05155**
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Wu, Xiaodong[1] *see* **Chen, Danny Z. et al.**, 2005m:92016
Xu, Jinhui *see* **Huang, Yingping et al.**, 2005e:65023
Xu, Yinfeng *see* **Rote, Günter et al.**, 2005d:52030
Yang, Boting (*with* Wang, Cao An) Minimal tetrahedralizations of a class of polyhedra. (English summary) **2005d:52029**
Yang, Jun *see* **Agarwal, Pankaj K. et al.**, (2005c:68003)
Yang, Xun Nian *see* **Yu, Ming Cai et al.**, 2005e:65015 *and* **Gan, Jia Fu et al.**, 2005k:65033
Yau, Shing-Tung *see* **Gu, Xianfeng et al.**, 2005m:53005 *and* **2005m:53019**
Ye, Yinyu (*with* Zhang, Jiawei) An improved algorithm for approximating the radii of point sets. (English summary) **2005c:68113**
Yi, Ke *see* **Agarwal, Pankaj K. et al.**, (2005c:68003)
Yoshida, Ruriko *see* **De Loera, Jesús A. et al.**, 2005i:52020
Younes, Laurent ★ Invariance, déformations et reconnaissance de formes. (French) [Invariance, deformations and pattern recognition] **2005b:68252**
Yu, Cedric X. *see* **Chen, Danny Z. et al.**, 2005m:92016
Yu, Ming Cai (*with* Yang, Xun Nian; Wang, Guo Zhao) Curve fitting by optimal biarc splines. (Chinese. English and Chinese summaries) **2005e:65015**
Zachariasen, Martin *see* **Brazil, Marcus et al.**, 2005f:05157
Zayer, Rhaleb (*with* Rössl, Christian; Seidel, Hans-Peter) Variations on angle based flattening. (English summary) (*see* **2005j:68003**)
Zeh, Norbert *see* **Bose, Prosenjit et al.**, 2005c:68217
Zhang, Bo[7] *see* **Liu, Li Gang et al.**, 2005k:68215
Zhang, Huaming (*with* He, Xin[1]) Compact visibility representation and straight-line grid embedding of plane graphs. (English summary) (*see* **2005b:68005**)
— (*with* He, Xin[1]) Canonical ordering trees and their applications in graph drawing. (English summary) **2005m:05156**
Zhang, Jiawei *see* **Ye, Yinyu**, 2005c:68113
Zhang, Jingyuan *see* **Fan, Guangbin**, 2005a:68020
Zhang, Kai[3] *see* **Shih, Frank Y. et al.**
Zhang, Li[6] *see* **Basch, Julien et al.**, 2005a:68048
Zhang, Liyan *see* **Nielson, Gregory M. et al.**
Zhang, Ren Jiang (*with* Wang, Guo Jin[1]) Error estimates for approximating a parametric surface by interpolated plane triangular patches. (Chinese. English summary) **2005m:65032**
Zhao, Yan *see* **Gan, Jia Fu et al.**, 2005k:65033
Ziegler, Günter M. *see* **Joswig, Michael**, 2005h:52017
Zighed, Djamel A. (*with* Lallich, Stéphane; Muhlenbach, Fabrice) A statistical approach to class separability. (English summary)
Zomorodian, Afra J. ★ Topology for computing. **2005i:68001**

Items listed otherwise than by author

Advances in multiresolution for geometric modelling ★ Advances in multiresolution for geometric modelling. **2005j:68003**
Cambridge ★ Advances in multiresolution for geometric modelling. **2005j:68003**
Dagstuhl ★ Geometric modelling. **2005g:65010**
Digital and image geometry ★ Digital and image geometry. **2005j:68006**
Geometric level set methods in imaging, vision, and graphics ★ Geometric level set methods in imaging, vision, and graphics. **2005a:94002**
Geometric modelling ★ Geometric modelling. **2005f:65004**
— ★ Geometric modelling. **2005g:65010**
Handbook:
Discrete and computational geometry ★ Handbook of discrete and computational geometry. **2005j:52001**
Lecture Notes in Computer Science ★ Digital and image geometry. **2005j:68006**
Mathematics and culture. II ★ Mathematics and culture. II. **2005i:00002**
Schloss Dagstuhl ★ Digital and image geometry. **2005j:68006**

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Chen, Fa-Lai *see* **Xu, Chen-Dong**
Hoffmann, Miklós Numerical control of Kohonen neural network for scattered data approximation. (English summary) **2005m:68217**
Mátyási, Gy. *see* **Szilvási-Nagy, M.**, 2005a:68217
Owen, John C. (*with* Power, Stephen C.) The nonsolvability by radicals of generic 3-connected planar graphs. (English summary) (*see* **2005d:68006**)
Power, Stephen C. *see* **Owen, John C.**, (2005d:68006)
Saliola, Franco (*with* Whiteley, Walter) Constraining plane configurations in CAD: circles, lines, and angles in the plane. (English summary) **2005k:68212**
Szilvási-Nagy, M. (*with* Mátyási, Gy.) Analysis of STL files. (English summary) **2005a:68217**
Whiteley, Walter *see* **Saliola, Franco**, 2005k:68212
Xu, Chen-Dong (*with* Chen, Fa-Lai) Blending canal surfaces based on PH curves. (English summary)

Items with secondary classifications in 68U07

Albrecht, Gudrun An algorithm for parametric quadric patch construction. (English summary) **2005k:65025**
Ayala, Dolors *see* **Vigo, M. et al.**, 2005k:65044
Azariadis, P. N. (*with* Sapidis, N. S.) Planar development of free-form surfaces: quality evaluation and visual inspection. (English summary) **2005h:65025**
Bertram, Martin Biorthogonal loop-subdivision wavelets. (English summary) **2005h:42066**
Bloor, M. I. G. (*with* Wilson, Michael John) An analytic pseudo-spectral method to generate a regular 4-sided PDE surface patch. (English summary) **2005m:65021**
Bonneau, Georges-Pierre *see* **Hahmann, Stefanie et al.**, 2005k:65035
(Brunnett, Guido) *see* **Geometric modelling**, 2005f:65004 *and* **2005g:65010**
Bultheel, Adhemar *see* **Vanraes, Evelyne et al.**, 2005e:42129
Chan, Bin *see* **Wang, Wen Ping**[1] **et al.**, (2005f:65004)
Cheng, Min (*with* Wang, Guo Jin[1]) Multi-degree reduction of NURBS curves based on their explicit matrix representation and polynomial approximation theory. (English summary) **2005d:65017**
Choi, Hyeong In (*with* Kwon, Song-Hwa; Wee, Nam-Sook) Almost rotation-minimizing rational parametrization of canal surfaces. (English summary) **2005f:53004**
Choi, Yi-King *see* **Wang, Wen Ping**[1] **et al.**, (2005f:65004)
Costantini, Paolo (*with* Sampoli, Maria Lucia) A general frame for the construction of constrained curves. (English summary) **2005m:41036**
Damavandi, Nader (*with* Safavi-Nacini, Safieddin) A hybrid evolutionary programming method for circuit optimization. (English summary)
Danovaro, Emanuele *see* **Sokolovsky, Neta et al.**, (2005j:68003)
De Floriani, Leila *see* **Sokolovsky, Neta et al.**, (2005j:68003)
Delaunay, Claire Real structures on smooth compact toric surfaces. (English summary) **2005b:14090**
Dey, Tamal K. (*with* Zhao, Wulue) Approximating the medial axis from the Voronoi diagram with a convergence guarantee. (English summary) **2005d:68135**
Dokken, Tor (*with* Thomassen, Jan Brede) Overview of approximate implicitization. (English summary) **2005d:65018**
Dyn, Nira *see* **Sheffer, Alla et al.**, (2005f:65004) *and* **Marinov, Martin et al.**, (2005j:68003)
Elkadi, Mohamed (*with* Galligo, André; Lê, Thi Ha) Parametrized surfaces in $\mathbb{P}^3$ of bidegree (1, 2). (English summary) **2005j:68135**
Etayo Gordejuela, Fernando (*with* González-Vega, Laureano; Tănăsescu, Claudiu) Computing the intersection curve of two surfaces: The tangential case. (English summary) **2005f:65021**
Falcidieno, Bianca *see* **Pernot, J.-P. et al.**, (2005i:65007)
(Farin, Gerald) *see* **Geometric modelling**, 2005f:65004 *and* **2005g:65010**
Gaddipati, Vijayalakshmi *see* **Shih, Frank Y.**, 2005j:68112
Galligo, André *see* **Elkadi, Mohamed et al.**, 2005j:68135
Giannini, F. *see* **Pernot, J.-P. et al.**, (2005i:65007)
Gilsinn, David E. (*with* McClain, Marjorie; Witzgall, Christoph) Using nonoscillatory splines to model urban environments. (English summary) (*see* **2005i:65007**)
Goldman, Ronald N. Polar forms in geometric modeling and algebraic geometry. (English summary) **2005f:65022**
— *see also* **Krasauskas, Rimvydas**, 2005d:65022; **Geometric modelling**, 2005f:65004 *and* **2005g:65010**
González-Vega, Laureano (*with* Necula, Ioana; Pérez-Díaz, Sonia; Sendra, Juana; Sendra, J. Rafael) Algebraic methods in computer aided geometric design: theoretical and practical applications. (English summary) (*see* **2005c:68006**)
— *see also* **Etayo Gordejuela, Fernando et al.**, 2005f:65021
Gotsman, Craig (*with* Kobbelt, Leif) Editorial [Special issue on geometry processing].
— *see also* **Sheffer, Alla et al.**, (2005f:65004)
Guillet, S. *see* **Pernot, J.-P. et al.**, (2005i:65007)
Hahmann, Stefanie (*with* Sauvage, Basile; Bonneau, Georges-Pierre) Area preserving deformation of multiresolution curves. (English summary) **2005k:65035**
— *see also* **Geometric modelling**, 2005f:65004 *and* **2005g:65010**
Hu, Shi-Min (*with* Wallner, Johannes) A second order algorithm for orthogonal projection onto curves and surfaces. (English summary) **2005j:65015**
Jiang, Su Rong *see* **Wang, Guo Jin**[1], 2005g:65033
Johnstone, J. K. The Bézier tangential surface system: a robust dual representation of tangent space. (English summary) **2005h:65019**
Jüttler, Bert *see* **Shalaby, Mohamed Fathy et al.**, (2005d:68006)
Kaklis, Panagiotis *see* **Karavelas, Menelaos I. et al.**, 2005k:65038
Karavelas, Menelaos I. (*with* Kaklis, Panagiotis; Kostas, K. V.) Bounding the distance between 2D parametric Bézier curves and their control polygon. (English summary) **2005k:65038**
Kim, Myung Soo *see* **Wang, Wen Ping**[1] **et al.**, (2005f:65004)
Kobbelt, Leif *see* **Gotsman, Craig**
Kostas, K. V. *see* **Karavelas, Menelaos I. et al.**, 2005k:65038
Krasauskas, Rimvydas (*with* Goldman, Ronald N.) Toric Bézier patches with depth. (English summary) **2005d:65022**
Kwon, Song-Hwa *see* **Choi, Hyeong In et al.**, 2005f:53004

Lê, Thi Ha *see* **Elkadi, Mohamed et al., 2005j:68135**
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Levin, David *see* **Marinov, Martin et al., (2005j:68003)**
Maes, Jan *see* **Vanraes, Evelyne et al., 2005e:42129**
Magillo, Paola *see* **Sokolovsky, Neta et al., (2005j:68003)**
Marinov, Martin (*with* Dyn, Nira; Levin, David) Geometrically controlled 4-point interpolatory schemes. (English summary) (*see* **2005j:68003**)
McClain, Marjorie *see* **Gilsinn, David E. et al., (2005i:65007)**
Monterde, J. Bézier surfaces of minimal area: the Dirichlet approach. (English summary) **2005b:65019**
Mourrain, Bernard (*with* Técourt, Jean-Pierre; Teillaud, Monique) On the computation of an arrangement of quadrics in 3D. (English summary) **2005h:68158**
Necula, Ioana *see* **González-Vega, Laureano et al., (2005c:68006)**
Pérez-Díaz, Sonia *see* **González-Vega, Laureano et al., (2005c:68006)**
Pernot, J.-P. (*with* Guillet, S.; Léon, Jean-Claude; Falcidieno, Bianca; Giannini, F.) Interactive operators for free-form feature manipulation. (English summary) (*see* **2005i:65007**)
Pla, N. *see* **Vigo, M. et al., 2005k:65044**
Rababah, Abedallah Distance for degree raising and reduction of triangular Bézier surfaces. (English summary) **2005a:65015**
— Distances with rational triangular Bézier surfaces. (English summary) **2005h:65022**
Sabin, Malcolm A. Recent progress in subdivision: a survey. (English summary) (*see* **2005j:68003**)
Safavi-Naeini, Safieddin *see* **Damavandi, Nader**
Sampoli, Maria Lucia *see* **Costantini, Paolo, 2005m:41036**
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Sauvage, Basile *see* **Hahmann, Stefanie et al., 2005k:65035**
Schicho, Josef *see* **Shalaby, Mohamed Fathy et al., (2005d:68006)**
Schramm, Étienne (*with* Schreck, Pascal) Solving geometric constraints invariant modulo the similarity group. (English summary) (*see* **2005i:00014**)
Schreck, Pascal *see* **Schramm, Étienne, (2005i:00014)**
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Sendra, Juana *see* **González-Vega, Laureano et al., (2005c:68006)**
Shalaby, Mohamed Fathy (*with* Jüttler, Bert; Schicho, Josef) C^1 spline implicitization of planar curves. (English summary) (*see* **2005d:68006**)
Sheffer, Alla (*with* Gotsman, Craig; Dyn, Nira) Robust spherical parameterization of triangular meshes. (English summary) (*see* **2005f:65004**)
Shih, Frank Y. (*with* Gaddipati, Vijayalakshmi) Geometric modeling and representation based on sweep mathematical morphology. (English summary) **2005j:68112**
Sokolovsky, Neta (*with* Danovaro, Emanuele; De Floriani, Leila; Magillo, Paola) Encoding level-of-detail tetrahedral meshes. (English summary) (*see* **2005j:68003**)
Sottile, Frank Toric ideals, real toric varieties, and the moment map. (English summary) **2005g:14100**
Tănăsescu, Claudiu *see* **Etayo Gordejuela, Fernando et al., 2005f:65021**
Técourt, Jean-Pierre *see* **Mourrain, Bernard et al., 2005h:68158**
Teillaud, Monique *see* **Mourrain, Bernard et al., 2005h:68158**
Thomassen, Jan Brede *see* **Dokken, Tor, 2005d:65018**
Tran, Quoc-Nam Efficient Groebner walk conversion for implicitization of geometric objects. (English summary) **2005h:65032**
Ugail, Hassan Spine based shape parameterisation for PDE surfaces. (English summary) **2005j:65018**
Vanraes, Evelyne (*with* Maes, Jan; Bultheel, Adhemar) Powell-Sabin spline wavelets. (English summary) **2005e:42129**
Vigo, M. (*with* Pla, N.; Ayala, Dolors) Two triangulation methods based on edge refinement. (English summary) **2005k:65044**
Wallner, Johannes *see* **Hu, Shi-Min, 2005j:65015**
Wang, Guo Jin[1] (*with* Jiang, Su Rong) The algorithms for evaluating two new types of generalized Ball curves/surfaces and their applications. (Chinese. English and Chinese summaries) **2005g:65033**
— *see also* **Cheng, Min, 2005d:65017** *and* **Zhang, Ren Jiang, 2005m:65032**
Wang, Guo Zhao *see* **Yu, Ming Cai et al., 2005e:65015**
Wang, Jia Ye *see* **Wang, Wen Ping[1] et al., (2005f:65004)**
Wang, Wen Ping[1] (*with* Choi, Yi-King; Chan, Bin; Kim, Myung Soo; Wang, Jia Ye) Efficient collision detection for moving ellipsoids using separating planes. (English summary) (*see* **2005f:65004**)
Wee, Nam-Sook *see* **Choi, Hyeong In et al., 2005f:53004**
Wilson, Michael John *see* **Bloor, M. I. G., 2005m:65021**
Witzgall, Christoph *see* **Gilsinn, David E. et al., (2005i:65007)**
Yang, Xun Nian *see* **Yu, Ming Cai et al., 2005e:65015**
Yu, Ming Cai (*with* Yang, Xun Nian; Wang, Guo Zhao) Curve fitting by optimal biarc splines. (Chinese. English and Chinese summaries) **2005e:65015**
Zakrevskiĭ, A. D. Logical equations with applications to computer-aided design and control. (Russian. Russian summary)
Zhang, Ren Jiang (*with* Wang, Guo Jin[1]) Error estimates for approximating a parametric surface by interpolated plane triangular patches. (Chinese. English summary) **2005m:65032**
Zhao, Wulue *see* **Dey, Tamal K., 2005d:68135**

Items listed otherwise than by author

Dagstuhl ★ Geometric modelling. **2005g:65010**
Geometric modelling ★ Geometric modelling. **2005f:65004**
—★ Geometric modelling. **2005g:65010**

68U10 Image processing

Abe, Keiichi *see* **Fujimoto, Nobuaki et al.**
Aiello, Marco (*with* Smeulders, Arnold W. M.) Thick 2D relations for document understanding. (English summary)
Alpers, Andreas (*with* Gritzmann, Peter; Thorens, Lionel) Stability and instability in discrete tomography. (English summary) (*see* **2005j:68006**)
Al-Rawi, Mohammed *see* **Yang, Jie[3]**
Alter, François (*with* Durand, Sylvain; Froment, Jacques) Adapted total variation for artifact free decompression of JPEG images. (English summary) **2005m:68218**
Ames, Aaron D. (*with* Jalkio, Jeffrey A.; Shakiban, Chehrzad) Three-dimensional object recognition using invariant Euclidean signature curves. (English summary) (*see* **2005f:00014**)
Aoki, Hiroyuki Applications of complex-valued neural networks for image processing. (*see* **2005b:00018**)
Araabi, Babak N. *see* **Hatami, S. et al.**
Aubert, Gilles *see* **Aujol, Jean-François et al., 2005m:68219**
Aujol, Jean-François (*with* Aubert, Gilles; Blanc-Féraud, Laure; Chambolle, Antonin) Image decomposition into a bounded variation component and an oscillating component. (English summary) **2005m:68219**
Ayache, Nicholas *see* **Cachier, Pascal, 2005a:68218**
Ayala, R. (*with* Domínguez Murillo, Eladio; Frances Román, Ángel Ramón; Quintero, A.) Digital homotopy with obstacles. (English summary) **2005b:68270**
Bacauskiene, Marija (*with* Verikas, Antanas) The evidence theory based post-processing of colour images. (English and Lithuanian summaries)
Baeza, I. (*with* Villanueva-Oller, J.; Villanueva Micó, R. J.; Law, Alan G.) Progressive transmission of images: adaptive best strategies. (English summary)
Ballester, Coloma (*with* Caselles, Vicent; Verdera, Joan[2]) Disocclusion by joint interpolation of vector fields and gray levels. (English summary) **2005b:68271**
— *see also* **Caselles, Vicent et al., 2005a:68219**
Balogh, Emese *see* **Kuba, Attila et al., 2005b:68277**
Barla, Annalisa *see* **Odone, Francesca et al.**
Bede, Barnabás (*with* Di Nola, Antonio) Elementary calculus in Riesz MV-algebras. (English summary) **2005b:68272**
Belahmidi, Abdelmounim (*with* Chambolle, Antonin) Time-delay regularization of anisotropic diffusion and image processing. (English summary) **2005m:68220**
Bertrand, Gilles *see* **Lohou, Christophe, 2005b:68278** *and* **Couprie, Michel et al., 2005m:68224**
Bhattacharya, Prabir (*with* Rosenfeld, Azriel; Weiss, Isaac) Point-to-line mappings and Hough transforms. (English summary) (*see* **2005j:68006**)
Bian, Zheng Zhong *see* **Zhang, Hongmei[2] et al.**
Blanc-Féraud, Laure *see* **Aujol, Jean-François et al., 2005m:68219**
Borisenko, G. V. (*with* Denisov, A. M.; Krylov, A. S.) On a method for the diffusion filtering of images. (Russian. Russian summary)
Boukerroui, Djamal (*with* Noble, J. Alison; Brady, John Michael) On the choice of band-pass quadrature filters. (English summary)
Brady, John Michael *see* **Boukerroui, Djamal et al.**
Braga-Neto, Ulisses Multiscale connected operators. (English summary) **2005m:68221**
Breen, David *see* **Museth, Ken et al., (2005a:94002)**
Brun, Luc (*with* Kropatsch, Walter) Introduction to combinatorial pyramids. (English summary) (*see* **2005j:68006**)
Buckley, Michael James *see* **Van Droogenbroeck, M., 2005m:68233**
Bülow, Thomas (*with* Klette, Reinhard) Approximation of 3D shortest polygons in simple cube curves. (English summary) (*see* **2005j:68006**)
Cachier, Pascal (*with* Ayache, Nicholas) Isotropic energies, filters and splines for vector field regularization. (English summary) **2005a:68218**
Candocia, Frank M. Analysis and enhancements to piecewise linear comparametric image registration. (English summary)
Cao, Frédéric (*with* Musé, Pablo; Sur, Frédéric) Extracting meaningful curves from images. (English summary) **2005m:68222**
Carpentieri, Bruno *see* **Rizzo, Francesco et al.**
Caselles, Vicent (*with* Sapiro, Guillermo R.; Solé, Andreas F.; Ballester, Coloma) Morse description and morphological encoding of continuous data. (English summary) **2005a:68219**
— *see also* **Ballester, Coloma et al., 2005b:68271**
Caulfield, H. John (*with* Fu, Jian; Yoo, Seong-Moo) Artificial color image logic. (English summary)
Chambolle, Antonin *see* **Aujol, Jean-François et al., 2005m:68219** *and* **Belahmidi, Abdelmounim, 2005m:68220**
Chang, Chin-Chen *see* **Yu, Yuan-Hui**
Charbonnier, Pierre *see* **Dahyot, Rozenn et al.**
Chassery, Jean-Marc *see* **Sivignon, Isabelle et al., 2005a:68222**
Chen, Danny Z. *see* **Wu, Xiaodong[1], (2005a:68008)**
Chen, Zhen[1] (*with* Gao, Man Tun; Qu, Shi Ru; Yang, Sheng Yun) Reconstructing 3D motion and structure from straight-line optical flow. (Chinese. English and Chinese summaries)
Cheng, Shouxian *see* **Shih, Frank Y.**
Chou, Chien-Hsin (*with* Su, Mu-Chun; Lai, Eugene) A new cluster validity measure and its application to image compression. (English summary)
Coeurjolly, David (*with* Debled-Rennesson, Isabelle; Teytaud, Olivier) Segmentation and length estimation of 3D discrete curves. (English summary) (*see* **2005j:68006**)
Coleman, Tommy *see* **Hung, Chih-Cheng et al.**
Costa, Marie-Christine (*with* de Werra, Dominique; Picouleau, C.; Schindl, D.) A solvable case of image reconstruction in discrete tomography. (English summary) **2005m:68223**
Couprie, Michel (*with* Najman, Laurent; Bertrand, Gilles) Quasi-linear algorithms for the topological watershed. (English summary) **2005m:68224**
Craizer, Marcos (*with* Pesco, Sinésio; Teixeira, Ralph) A numerical scheme for the curvature equation near the singularities. (English summary) **2005m:68225**
Dahyot, Rozenn (*with* Charbonnier, Pierre; Heitz, Fabrice) A Bayesian approach to object detection using probabilistic appearance-based models. (English summary)
Dai, H. K. (*with* Su, H. C.) On the locality properties of space-filling curves. (English summary) (*see* **2005c:68004**)
Debled-Rennesson, Isabelle *see* **Coeurjolly, David et al., (2005j:68006)**
Demaret, Laurent (*with* Dyn, Nira; Floater, Michael S.; Iske, Armin) Adaptive thinning for terrain modelling and image compression. (English summary) (*see* **2005j:68003**)
Denisov, A. M. *see* **Borisenko, G. V. et al.**
Deriche, Rachid *see* **Paragios, Nikos, 2005b:68280**

Dey, Tamal K. (*with* Giesen, Joachim; Goswami, Samrat) Shape segmentation and matching with flow discretization. (English summary) (*see* **2005b:68005**)
Di Nola, Antonio *see* **Bede, Barnabás**, **2005b:68272**
Doerr, Benjamin (*with* Schnieder, Henning) Non-independent randomized rounding and an application to digital halftoning. (English summary) (*see* **2005c:68002**)
Domínguez Murillo, Eladio (*with* Frances Román, Ángel Ramón) An axiomatic approach to digital topology. (English summary) (*see* **2005j:68006**)
— *see also* **Ayala, R. et al.**, **2005b:68270**
Dooley, Saul R. (*with* Stewart, Robert W.; Durrani, Tariq S.; Setarehdan, S. Kamal; Soraghan, John J.) Efficient implementation of accurate geometric transformations for 2-D and 3-D image processing. (English summary) **2005d:68137**
Dougherty, Edward R. A lattice-based minimal gray-scale switching algorithm for obtaining the optimal increasing filter from the optimal filter. (English summary)
Dupont, Florent *see* **Sivignon, Isabelle et al.**, **2005a:68222**
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Eckhardt, Ulrich Digital lines and digital convexity. (English summary) (*see* **2005j:68006**)
— (*with* Reiter, Helene) Polygonal representations of digital sets. (English summary) **2005f:68155**
Fanany, M. I. (*with* Kumazawa, I.) Multiple-view shape extraction from shading as local regression by analytic NN scheme. (English summary)
Felsberg, M. (*with* Sommer, Gerald) The monogenic scale-space: a unifying approach to phase-based image processing in scale-space. (English summary) **2005b:68273**
Feschet, Fabien (*with* Tougne, Laure) An approach for the estimation of the precision of a real object from its digitization. (English summary) **2005b:68274**
Floater, Michael S. *see* **Demaret, Laurent et al.**, (**2005j:68003**)
Foote, Richard M. (*with* Mirchandani, Gagan; Rockmore, Daniel N.) Two-dimensional wreath product group-based image processing. (English summary) **2005e:68245**
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Fu, Jian *see* **Caulfield, H. John et al.** *and* **Hu, Guo Fei et al.**
Fujimoto, Nobuaki (*with* Ohsaki, Miho; Sugiyama, Takahiro; Abe, Keiichi) Evaluation of edge detection algorithms based on edges drawn by humans. (Japanese. English and Japanese summaries)
Galinski, Grzegorz *see* **Skarbek, Władysław et al.**
Gan, Tong (*with* Ma, Kai-Kuang) Weighted unequal error protection for transmitting scalable object-oriented images over packet-erasure networks. (English summary)
Gao, Man Tun *see* **Chen, Zhen[1] et al.**
Gao, Qigang (*with* Tan, Mao) A generic model for learning perceptual curve partitioning. (English summary)
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Doerr, Benjamin Nonindependent randomized rounding and an application to digital halftoning. (English summary) **2005i:68088**
Dong, Haizhen *see* **Yu, Donggang et al.**, (**2005i:00014**)
Droske, M. (*with* Rumpf, Martin) A variational approach to nonrigid morphological image registration. (English summary) **2005a:49022**
— *see also* **Strzodka, R. et al.**, **2005k:65114**
Duci, Alessandro *see* **Soatto, Stefano et al.**, (**2005a:94002**)
Dugatkin, Diego *see* **Effros, Michelle**
Duits, Remco (*with* Florack, Luc; de Graaf, Jan; ter Haar Romeny, Bart) On the axioms of scale space theory. (English summary) **2005k:94005**
Durand, Sylvain *see* **Almansa, Andrés et al.**
Easley, Glenn R. (*with* Walnut, D. F.) Local multichannel deconvolution. (English summary) **2005c:94008**
Echi, Othman (*with* Itō, Munehiko) Up-spectral spaces and A-spectral spaces. (English summary) **2005m:06014**
Effros, Michelle (*with* Dugatkin, Diego) Multiresolution vector quantization. (English summary)
Elad, A. (*with* Kimmel, Ron) Spherical flattening of the cortex surface. (English summary) (*see* **2005a:92002**)
Faĭnzil'berg, L. S. Reconstruction of the pattern of cyclic signals, based on the use of the Hausdorff metric in a coordinate phase space. (Russian. English and Ukrainian summaries)
Faridani, Adel Sampling theory and parallel-beam tomography. (English summary) (*see* **2005h:94001**)
Fateman, Richard *see* **Yang, Michael**, (**2005i:68002**)
Faugeras, Olivier (*with* Gomes, Jose; Keriven, Renaud) Computational stereo: a variational method. (English summary) (*see* **2005a:94002**)
— (*with* Hermosillo, Gerardo) Well-posedness of two nonrigid multimodal image registration methods. (English summary) **2005e:94011**
— *see also* **Hartley, Richard**, **2005b:68251**; **Chefd'hotel, C. et al.**, **2005b:94004**; **Aubert, Gilles et al.**, **2005g:49070** *and* **Leventon, Michael et al.**, (**2005a:94002**)
Feng, Xiaobing (*with* Prohl, Andreas) Analysis of gradient flow of a regularized Mumford-Shah functional for image segmentation and image inpainting. (English summary) **2005f:35136**
Fischer, Bernd[1] (*with* Modersitzki, Jan) Large scale problems arising from image registration. (English summary) **2005k:94003**
Florack, Luc *see* **Duits, Remco et al.**, **2005k:94005**
Frosini, Andrea *see* **Del Lungo, Alberto et al.**, (**2005a:68008**)
Frosini, Patrizio *see* **Dibos, Françoise et al.**, **2005f:68147**
Gaddipati, Vijayalakshmi *see* **Shih, Frank Y.**, **2005j:68112**
Gallo, Giovanni *see* **Battiato, Sebastiano et al.**
Garduño, Edgar (*with* Herman, Gabor T.) Optimization of basis functions for both reconstruction and visualization. (English summary) **2005d:65028**
Gérard, Yan *see* **Coeurjolly, David et al.**
Gomes, Jose *see* **Faugeras, Olivier et al.**, (**2005a:94002**)
Goutsias, John *see* **Braga-Neto, Ulisses**, **2005g:94007**
de Graaf, Jan *see* **Duits, Remco et al.**, **2005k:94005**
Graña, Manuel *see* **Raducanu, B. et al.**
Greenberg, Ronald I. Fast and space-efficient location of heavy or dense segments in run-length encoded sequences (extended abstract). (English summary) (*see* **2005a:05002**)
Grimson, Eric *see* **Leventon, Michael et al.**, (**2005a:94002**)
Gual-Arnau, Ximo On the volume from planar sections through a curve. (English summary) **2005m:53144**
ter Haar Romeny, Bart *see* **Duits, Remco et al.**, **2005k:94005**
Han, Xiao[2] (*with* Xu, Chenyang; Prince, Jerry) Topology preserving geometric deformable models for brain reconstruction. (English summary) (*see* **2005a:94002**)
Hao, Pengwei *see* **She, Yiyuan**, **2005k:15028**
Hartley, Richard (*with* Zisserman, Andrew) ★ Multiple view geometry in computer vision **2005b:68251**
Heckel, Martin (*with* Zendulka, Jaroslav) Data mining and its use in texture analysis. (English summary)
Heitz, Fabrice *see* **Salomon, M. et al.**
Henn, Stefan A Levenberg-Marquardt scheme for nonlinear image registration. (English summary) **2005c:65036**
Herbst, B. M. *see* **Muller, Neil et al.**, **2005k:65081**
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Hermosillo, Gerardo *see* **Faugeras, Olivier**, **2005e:94011**
Hintermüller, Michael (*with* Ring, Wolfgang) An inexact Newton-CG-type active contour approach for the minimization of the Mumford-Shah functional. (English summary) **2005d:65096**
Hirose, Akira *see* **Suksmono, Andriyan Bayu**, (**2005b:00018**)
Hirota, Kaoru (*with* Nobuhara, H.; Kawamoto, Kazuhiko; Yoshida, Shinichi) On a lossy image compression/reconstruction method based on fuzzy relational equations. (English summary)
Ho, Chung-wa *see* **Chan, Raymond H. et al.**, **2005e:65065**
Hong, Don (*with* Schumaker, Larry L.) Surface compression using a space of C^1 cubic splines with a hierarchical basis. (English summary) **2005f:41026**
Hughes, Joy V. Cellular automata for imaging, art, and video. (*see* **2005b:82059**)
(Imiya, Atsushi) *see* **Digital and image geometry**, **2005j:68006**
Impoco, Gaetano *see* **Battiato, Sebastiano et al.**
Ippoliti, Luigi (*with* Romagnoli, Luca) Adjusted least square estimation for noisy images. (English summary) (*see* **2005f:62007**)
Itō, Munehiko *see* **Echi, Othman**, **2005m:06014**
Jehan-Besson, Stéphanie *see* **Aubert, Gilles et al.**, **2005g:49070**
Jiang, Zhuhan (*with* de Vel, Olivier; Litow, Bruce) Unification and extension of weighted finite automata applicable to image compression. (English summary) **2005b:68173**
Jin, Hailin *see* **Yezzi, Anthony et al.**, (**2005a:94002**)
Jin, Yi Qing *see* **Wang, Dong Mei**
Kaczynski, Tomasz (*with* Mischaikow, Konstantin; Mrozek, Marian) ★ Computational homology. **2005g:55001**
Kaneda, Kazufumi *see* **Otsubo, Yuma et al.**
Katritzke, F. (*with* Merzenich, W.; Thomas, Michael[1]) Enhancements of partitioning techniques for image compression using weighted finite automata. (English summary) **2005c:94009**
Katsevich, Alexander (*with* Lauritsch, Guenter) Filtered backprojection algorithms for spiral cone beam CT. (English summary) (*see* **2005h:94001**)
Kawamoto, Kazuhiko *see* **Hirota, Kaoru et al.**
Kelarev, Andrei V. *see* **Bereg, Sergei**, **2005a:68224**
Keller, Yosi (*with* Averbuch, Amir Z.) Fast motion estimation using bidirectional gradient methods. (English summary)
Kenyon, Claire (*with* Rabani, Yuval; Sinclair, Alistair) Low distortion maps between point sets. (English summary) **2005j:68057**
Keriven, Renaud *see* **Faugeras, Olivier et al.**, (**2005a:94002**)
Kikinis, Ron *see* **Leventon, Michael et al.**, (**2005a:94002**)
Kim, Dong Sik[2] *see* **Lee, Kiryung et al.**
Kim, Taejeong *see* **Lee, Kiryung et al.**
Kimmel, Ron *see* **Sochen, Nir A. et al.**, **2005g:94010** *and* **Elad, A.**, (**2005a:92002**)
Klassen, Eric Paul *see* **Mio, W. et al.**, **2005d:41008**
Klette, Reinhard (*with* Rosenfeld, Azriel) Digital straightness—a review. (English summary) **2005a:68212**
— *see also* **Digital and image geometry**, **2005j:68006**
Klose, Aljoscha (*with* Kruse, Rudolf) Semi-supervised learning in knowledge discovery. (English summary)
Koepfler, Georges *see* **Dibos, Françoise et al.**, (**2005a:94002**) *and* (**2005a:94002**)
Kopperman, Ralph On storage of topological information. (English summary) **2005j:54007**
Košecká, Jana *see* **Ma, Yi[2] et al.**, **2005a:68198**
Kreinovich, Vladik (*with* Aló, Richard) Interval mathematics for analysis of multi-level granularity. (English summary) **2005b:65054**

— *see also* **Mulupuru, Bharat C. et al.**
Kruse, Rudolf *see* **Klose, Aljoscha**
Lai, Shang-Hong *see* **Yang, Chyuan-Huei Thomas et al.**
Lai, Wei *see* **Yu, Donggang et al.**, (2005i:00014)
Lamberti, C. *see* **Sarti, Alessandro et al.**, (2005a:92002) *and* (2005a:92002)
Lauritsch, Guenter *see* **Katsevich, Alexander**, (2005h:94001)
Lee, Chin-Fan *see* **Chan, Yung-Kuan et al.**
Lee, Kiryung (*with* Kim, Dong Sik[2]; Kim, Taejeong) Regression-based prediction for blocking artifact reduction in JPEG-compressed images. (English summary)
Lee, Kun *see* **Nielson, Gregory M. et al.**
Leventon, Michael (*with* Grimson, Eric; Faugeras, Olivier; Kikinis, Ron; Wells, William, III) Knowledge-based segmentation of medical images. (English summary) (*see* 2005a:94002)
Lewenstein, Moshe *see* **Amir, Amihood et al.**, (2005b:68005)
Li, Suo Ping (*with* Yin, Xiaopei) New model used for image denoising and its grid numerical algorithm. (English summary)
Li, Yue *see* **Thomasian, Alexander et al.**
Lions, Pierre-Louis *see* **Rudin, Leonid et al.**, 2005d:94010
Litow, Bruce *see* **Jiang, Zhuhan et al.**, 2005b:68173
Liu, Bede *see* **Xia, Minghui**, 2005d:94019
Lockett, S. J. *see* **Ortiz de Solorzano, C. et al.**, (2005a:92002)
Loo, Chu Kiong (*with* Peruš, Mitja; Bischof, Horst) Associative memory based image and object recognition by quantum holography. (English summary) 2005f:81041
Lowe, David *see* **Stainvas, Inna**
Ma, Yi[2] (*with* Soatto, Stefano; Košecká, Jana; Sastry, S. Shankar) ★ An invitation to 3-D vision. 2005a:68198
Magaia, Lourenço *see* **Muller, Neil et al.**, 2005k:65081
Malladi, Ravikanth (*with* Sethian, J. A.) Fast methods for shape extraction in medical and biomedical imaging. (English summary) (*see* 2005a:92002)
— *see also* **Ortiz de Solorzano, C. et al.**, (2005a:92002) *and* **Sarti, Alessandro et al.**, (2005a:92002)
Maragos, Petros Morphological global reconstruction and levelings: lattice and PDE approaches. (English summary) (*see* 2005a:94002)
Mardesic, Tomislav J. *see* **Vallejos, Ronny O.**
Matei, Basarab Smoothness characterization and stability in nonlinear multiscale framework: theoretical results. (English summary) 2005m:42068
Meghini, Carlo (*with* Sebastiani, Fabrizio; Straccia, Umberto) A model of multimedia information retrieval. (English summary)
Merzenich, W. *see* **Katritzke, F. et al.**, 2005c:94009
Mikula, Karol *see* **Sarti, Alessandro et al.**, (2005a:92002)
Mio, W. (*with* Srivastava, Anuj; Klassen, Eric Paul) Interpolations with elasticae in Euclidean spaces. (English summary) 2005d:41008
Mischaikow, Konstantin *see* **Kaczynski, Tomasz et al.**, 2005g:55001
Modersitzki, Jan *see* **Fischer, Bernd[1]**, 2005k:94003
Molchanov, Ilya S. Applications of random sets in image analysis. How to average a cat and a dog? 2005j:60026
Monasse, Pascal *see* **Dibos, Françoise et al.**, (2005a:94002) *and* (2005a:94002)
Morisaki, Yoji (*with* Nishii, Ryuei) Contextual image fusion based on Markov random fields and its applications to geo-spatial image enhancement. (English summary) (*see* 2005a:62014)
Mrozek, Marian *see* **Kaczynski, Tomasz et al.**, 2005g:55001
Muller, Neil (*with* Magaia, Lourenço; Herbst, B. M.) Singular value decomposition, eigenfaces, and 3D reconstructions. (English summary) 2005k:65081
Mulupuru, Bharat C. (*with* Kreinovich, Vladik; Osegueda, Roberto) Interval approach to phase measurements can lead to arbitrarily complex sets—a theorem and ways around it. (English summary)
Nagy, Benedek Generalised triangular grids in digital geometry. (English summary) 2005k:52031
Neves, António J. R. *see* **Pinho, Armando J.**
Nielson, Gregory M. (*with* Lee, Kun; Zhang, Liyan) Lifting curve parameterization methods to isosurfaces. (English summary)
Nikolova, Mila A variational approach to remove outliers and impulse noise. (English summary) 2005b:94006
— Weakly constrained minimization: application to the estimation of images and signals involving constant regions. (English summary) 2005g:94020
— *see also* **Chan, Raymond H. et al.**, 2005e:65065
Nishii, Ryuei *see* **Morisaki, Yoji**, (2005a:62014)
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Nobuhara, H. *see* **Hirota, Kaoru et al.**
Nyström, Ingela (*with* Sanniti di Baja, Gabriella; Svensson, Stina) Advances in discrete geometry and topology (DGCI 2003).
Okada, Masato *see* **Tanaka, Kazuyuki[2] et al.**, 2005d:94016
Or, S. H. *see* **Wong, Kin Hong et al.**, (2005d:35008)
Ortiz de Solorzano, C. (*with* Malladi, Ravikanth; Lockett, S. J.) A geometric model for image analysis in cytology. (English summary) (*see* 2005a:92002)
Osegueda, Roberto *see* **Mulupuru, Bharat C. et al.**
Osher, Stanley *see* **Rudin, Leonid et al.**, 2005d:94010
Otsubo, Yuma (*with* Kaneda, Kazufumi; Yamashita, Hideo) A method of transition control for an image morphing. (Japanese. English and Japanese summaries)
Papi, Serena *see* **Bacchelli, Silvia**, 2005e:94009
Pasquignon, Denis *see* **Dibos, Françoise et al.**, 2005f:68147
Perrin, G.-R. *see* **Salomon, M. et al.**
Peruš, Mitja *see* **Loo, Chu Kiong et al.**, 2005f:81041
Petry, Frederick E. *see* **Yager, Ronald R.**
Pinho, Armando J. (*with* Neves, António J. R.) A survey on palette reordering methods for improving the compression of color-indexed images. (English summary)
Popa, Constantin (*with* Zdunek, Rafal) Kaczmarz extended algorithm for tomographic image reconstruction from limited data. (English summary) 2005i:94001
Porat, Ely *see* **Amir, Amihood et al.**, (2005b:68005)
Prasad, V. Shiv Naga (*with* Yegnanarayana, B.) Finding axes of symmetry from potential fields. (English summary) 2005g:94009
Prince, Jerry *see* **Han, Xiao[2] et al.**, (2005a:94002)
Prohl, Andreas *see* **Feng, Xiaobing**, 2005f:35136
Qiu, Peihua ★ Image processing and jump regression analysis. 2005h:62007
Rabani, Yuval *see* **Kenyon, Claire et al.**, 2005j:68057
Raducanu, B. (*with* Graña, Manuel; Albizuri, F. X.; d'Anjou, A.) A probabilistic hit-and-miss transform for face localization. (English summary)
Raskhodnikova, Sofya Approximate testing of visual properties. (English summary) 2005c:68106
Reveillés, J.-P. *see* **Coeurjolly, David et al.**
Riemenschneider, Sherman D. *see* **Chan, Raymond H. et al.**, 2005h:94006
Ring, Wolfgang *see* **Hintermüller, Michael**, 2005d:65096
Roerdink, Jos B. T. M. (*with* Bekker, Henk) Similarity measure computation of convex polyhedra revisited. (English summary) (*see* 2005j:68006)
Romagnoli, Luca *see* **Ippoliti, Luigi**, (2005f:62007)
Ronse, Christian Guest editorial [Special issue on mathematical morphology after 40 years].
Rosenfeld, Azriel *see* **Klette, Reinhard**, 2005a:68212
Rosenhahn, Bodo (*with* Sommer, Gerald) Pose estimation in conformal geometric algebra. I. The stratification of mathematical spaces. (English summary) 2005m:68203
— (*with* Sommer, Gerald) Pose estimation in conformal geometric algebra. II. Real-time pose estimation using extended feature concepts. (English summary) 2005m:68204
Rougé, Bernard *see* **Almansa, Andrés et al.**
Rousson, Mikaël (*with* Deriche, Rachid) Adaptive segmentation of vector valued images. (English summary) (*see* 2005a:94002)
Rudin, Leonid (*with* Lions, Pierre-Louis; Osher, Stanley) Multiplicative denoising and deblurring: theory and algorithms. (English summary) 2005d:94010
Rumpf, Martin *see* **Droske, M.**, 2005a:49022 *and* **Strzodka, R. et al.**, 2005k:65114
Sagiv, Chen *see* **Sochen, Nir A. et al.**, 2005g:94010
Salomon, M. (*with* Heitz, Fabrice; Perrin, G.-R.; Armspach, J.-P.) A massively parallel approach to deformable matching of 3D medical images via stochastic differential equations. (English summary)
Sanniti di Baja, Gabriella *see* **Nyström, Ingela et al.**
Sapiro, Guillermo R. *see* **Solé, Andreas F. et al.**
Sarti, Alessandro (*with* Lamberti, C.; Malladi, Ravikanth) Level set models for analysis of 2D and 3D echocardiographic data. (English summary) (*see* 2005a:92002)
— (*with* Mikula, Karol; Sgallari, F.; Lamberti, C.) Nonlinear multiscale analysis models for filtering of 3D + time biomedical images. (English summary) (*see* 2005a:92002)
Sastry, S. Shankar *see* **Ma, Yi[2] et al.**, 2005a:68198
Scherzer, Otmar Taut-string algorithm and regularization programs with G-norm data fit. (English summary) 2005m:62021
Schmeelk, J. Wavelet transforms and edge detectors on digital images. (English summary)
Schumaker, Larry L. *see* **Hong, Don**, 2005f:41026
Sebastiani, Fabrizio *see* **Meghini, Carlo et al.**
Serra Capizzano, Stefano A note on antireflective boundary conditions and fast deblurring models. (English summary) 2005e:94013
Sethian, J. A. *see* **Malladi, Ravikanth**, (2005a:92002)
Sgallari, F. *see* **Sarti, Alessandro et al.**, (2005a:92002)
She, Yiyuan (*with* Hao, Pengwei) Block TERM factorization of block matrices. (English summary) 2005k:15028
Shen, Jianhong Bayesian video dejittering by the BV image model. (English summary) 2005h:94010
Shen, Lixin[2] *see* **Chan, Raymond H. et al.**, 2005h:94006
Shen, Zuowei *see* **Chan, Raymond H. et al.**, 2005h:94006
Shi, Bai Le *see* **Zhang, Liang et al.**
Shih, Frank Y. (*with* Gaddipati, Vijayalakshmi) Geometric modeling and representation based on sweep mathematical morphology. (English summary) 2005j:68112
Shouno, Hayaru *see* **Tanaka, Kazuyuki[2] et al.**, 2005d:94016
Sifakis, Eftychis (*with* Tziritas, George) Fast marching techniques for visual grouping & segmentation. (English summary) (*see* 2005a:94002)
Sinclair, Alistair *see* **Kenyon, Claire et al.**, 2005j:68057
Sloboda, Fridrich (*with* Zaťko, Bedrich) On approximation of Jordan surfaces in 3D. (English summary) (*see* 2005j:68006)
Smale, Stephen (*with* Zhou, Ding-Xuan) Shannon sampling and function reconstruction from point values. 2005b:94022
Soatto, Stefano (*with* Yezzi, Anthony; Duci, Alessandro) Region matching and tracking under deformations or occlusions. (English summary) (*see* 2005a:94002)
— *see also* **Ma, Yi[2] et al.**, 2005a:68198; **Yezzi, Anthony et al.**, 2005a:94008 *and* (2005a:94002)
Sochen, Nir A. Affine invariant flows in the Beltrami framework. (English summary) 2005a:68199
— (*with* Sagiv, Chen; Kimmel, Ron) Stereographic combing a porcupine or studies on direction diffusion in image processing. (English summary) 2005g:94010
Solé, Andreas F. (*with* Caselles, Vicent; Sapiro, Guillermo R.; Arándiga, Francesc) Morse description and geometric encoding of digital elevation maps. (English summary)
Sommer, Gerald *see* **Rosenhahn, Bodo**, 2005m:68203 *and* 2005m:68204
Sowa, Artur Novel types of nondiffusive flows with applications to image enhancement. (English summary) 2005d:94012
Srivastava, Anuj *see* **Mio, W. et al.**, 2005d:41008
Stainvas, Inna (*with* Lowe, David) A generative model for separating illumination and reflectance from images. (English summary)
Stanco, Filippo *see* **Battiato, Sebastiano et al.**
Steland, Ansgar Jump-preserving monitoring of dependent time series using pilot estimators. (English summary) 2005c:62168
Straccia, Umberto *see* **Meghini, Carlo et al.**
Strong, David (*with* Chan, Tony F. C.) Edge-preserving and scale-dependent properties of total variation regularization. (English summary) 2005d:94014
Strzodka, R. (*with* Droske, M.; Rumpf, Martin) Image registration by a regularized gradient flow. A streaming implementation in DX9 graphics hardware. (English summary) 2005k:65114
Suchard, Eytan H. Square fractal algorithm. (English summary) 2005j:28015

Sugihara, Kokichi Mathematics of pictures of impossible objects: human vision vs. robot vision [translation of Sūgaku **54** (2002), no. 1, 58–68; MR1918698 (2004h:68138)]. (*see* **2005a:00025**)
Suksmono, Andriyan Bayu (*with* Hirose, Akira) Adaptive interferometric radar image processing by using complex-valued neural network. (*see* **2005b:00018**)
Svalbe, Imants Sampling properties of the discrete Radon transform. (English summary) **2005b:44005**
Svensson, Stina *see* **Nyström, Ingela et al.**
Tanács, Attila Image registration methods based on interactively identified point pairs. (Hungarian. English and Hungarian summaries) **2005f:94015**
Tanaka, Kazuyuki[2] Statistical-mechanical approach to image processing. (English summary) **2005d:94015**
— (*with* Shouno, Hayaru; Okada, Masato; Titterington, D. Michael) Accuracy of the Bethe approximation for hyperparameter estimation in probabilistic image processing. (English summary) **2005d:94016**
Terzopoulos, Demetri Deformable models: classic, topology-adaptive and generalized formulations. (English summary) (*see* **2005a:94002**)
Thomas, Michael[1] *see* **Katritzke, F. et al., 2005c:94009**
Thomasian, Alexander (*with* Li, Yue; Zhang, Lijuan) Exact k-NN queries on clustered SVD datasets. (English summary)
Titterington, D. Michael *see* **Tanaka, Kazuyuki[2] et al., 2005d:94016**
Tougne, Laure *see* **Coeurjolly, David et al.**
Tsai, Andy *see* **Yezzi, Anthony et al., 2005a:94008** *and* **(2005a:94002)**
Tschumperlé, D. *see* **Chefd'hotel, C. et al., 2005b:94004**
Turski, Jacek Geometric Fourier analysis of the conformal camera for active vision. (English summary) **2005i:43010**
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Tziritas, George *see* **Sifakis, Eftychis, (2005a:94002)**
Vallejos, Ronny O. (*with* Mardesic, Tomislav J.) A recursive algorithm to restore images based on robust estimation of NSHP autoregressive models. (English summary)
Vasconcelos, Nuno On the efficient evaluation of probabilistic similarity functions for image retrieval. (English summary) **2005e:68038**
de Vel, Olivier *see* **Jiang, Zhuhan et al., 2005b:68173**
Vemuri, Baba C. (*with* Chen, Yun-mei) Joint image registration and segmentation. (English summary) (*see* **2005a:94002**)
Vese, Luminita Multiphase object detection and image segmentation. (English summary) (*see* **2005a:94002**)
— *see also* **Chan, Tony F. C., (2005a:92002)**
Vuillon, Laurent *see* **Del Lungo, Alberto et al., (2005a:68008)**
Walnut, D. F. *see* **Easley, Glenn R., 2005c:94008**
Wang, Dong Mei (*with* Jin, Yi Qing) Semi-period of doubly even order magic square transformed digital image. (Chinese. English and Chinese summaries)
Wang, Her-Fa *see* **Chan, Yung-Kuan et al.**
Wang, Li Sheng[3] (*with* Xu, Zong Ben) Review on PDE-based image processing techniques and their applications in biomedical images analysis. (Chinese. English and Chinese summaries)
Wells, William, III *see* **Leventon, Michael et al., (2005a:94002)**
White, P. R. *see* **De Stefano, Antonio et al.**
Willsky, Alan S. *see* **Yezzi, Anthony et al., 2005a:94008** *and* **(2005a:94002)**
Wong, Kin Hong (*with* Or, S. H.; Chang, M. M. Y.) Pose tracking for virtual walk-through environment construction. (English summary) (*see* **2005d:35008**)
Wu, Xiaodong[1] Segmenting doughnut-shaped objects in medical images. (English summary) (*see* **2005c:68004**)
Xia, Minghui (*with* Liu, Bede) Image registration by "super-curves". (English summary) **2005d:94019**
Xu, Chenyang *see* **Han, Xiao[2] et al., (2005a:94002)**
Xu, Zong Ben *see* **Wang, Li Sheng[3]**
Yager, Ronald R. (*with* Petry, Frederick E.) A framework for linguistic relevance feedback in content-based image retrieval using fuzzy logic. (English summary)
Yamashita, Hideo *see* **Otsubo, Yuma et al.**
Yang, Chyuan-Huei Thomas (*with* Lai, Shang-Hong; Chang, Long-Wen) Robust face image matching under illumination variations. (English summary)
Yang, Michael (*with* Fateman, Richard) Extracting mathematical expressions from Postscript documents. (English summary) (*see* **2005i:68002**)
Yang, Yun *see* **Yu, Donggang et al., (2005i:00014)**
Yegnanarayana, B. *see* **Prasad, V. Shiv Naga, 2005g:94009**
Yezzi, Anthony (*with* Soatto, Stefano; Jin, Hailin; Tsai, Andy; Willsky, Alan S.) Mumford-Shah for segmentation and stereo. (English summary) (*see* **2005a:94002**)
— (*with* Soatto, Stefano; Tsai, Andy; Willsky, Alan S.) The Mumford-Shah functional: from segmentation to stereo. (English summary) **2005a:94008**
— *see also* **Soatto, Stefano et al., (2005a:94002)**
Yin, Xiaopei *see* **Li, Suo Ping**
Yoshida, Shinichi *see* **Hirota, Kaoru et al.**
Younes, Laurent ★ Invariance, déformations et reconnaissance de formes. (French) [Invariance, deformations and pattern recognition] **2005b:68252**
Yu, Donggang (*with* Dong, Haizhen; Lai, Wei; Yang, Yun) Projection filling based on contour structural points. (English summary) (*see* **2005i:00014**)
Zaťko, Bedrich *see* **Sloboda, Fridrich, (2005j:68006)**
Zdunek, Rafał *see* **Popa, Constantin, 2005i:94001**
Zendulka, Jaroslav *see* **Heckel, Martin**
Zhang, Liang (*with* Zhou, Xiang Dong; Zhang, Qi; Shi, Bai Le) A long-term learning-based dynamic user model in image retrieval. (Chinese. English and Chinese summaries)
Zhang, Lijuan *see* **Thomasian, Alexander et al.**
Zhang, Liyan *see* **Nielson, Gregory M. et al.**
Zhang, Qi *see* **Zhang, Liang et al.**
Zhizhina, E. A. *see* **Descombes, Xavier, 2005j:94005**
Zhou, Ding-Xuan *see* **Smale, Stephen, 2005b:94022**
Zhou, Xiang Dong *see* **Zhang, Liang et al.**
Zisserman, Andrew *see* **Hartley, Richard, 2005b:68251**
Žunić, Joviša Digital partitions encoding. (English summary) (*see* **2005j:68006**)

Items listed otherwise than by author

Digital and image geometry ★ Digital and image geometry. **2005j:68006**
Lecture Notes in Computer Science ★ Digital and image geometry. **2005j:68006**
Schloss Dagstuhl ★ Digital and image geometry. **2005j:68006**

68U15 Text processing; mathematical typography

Berlea, Alexandru (*with* Seidl, Helmut) Binary queries for document trees. (English summary) **2005d:68140**
Seidl, Helmut *see* **Berlea, Alexandru, 2005d:68140**

Items with secondary classifications in 68U15

(Apostolico, Alberto) *see* **Combinatorial pattern matching, 2005a:68009**
Baeza-Yates, Ricardo (*with* Navarro, Gonzalo) Text searching: theory and practice. (English summary) (*see* **2005g:68088**)
Fan, Wenfei (*with* Libkin, Leonid) On XML integrity constraints in the presence of DTDs. (English summary) **2005m:03022**
Libkin, Leonid *see* **Fan, Wenfei, 2005m:03022**
Miner, Robert The importance of MathML to mathematics communication.
Navarro, Gonzalo *see* **Baeza-Yates, Ricardo, (2005g:68088)**
Neven, Frank Attribute grammars for unranked trees as a query language for structured documents. (English summary) **2005j:68069**
(Takeda, Masayuki) *see* **Combinatorial pattern matching, 2005a:68009**
Tresser, Charles Dynamique de la diffusion de l'erreur sur plusieurs polytopes. (English and French summaries) [Dynamics of error diffusion on several polytopes] **2005b:37028**

Items listed otherwise than by author

Combinatorial pattern matching ★ Combinatorial pattern matching. **2005a:68009**
Fukuoka ★ Combinatorial pattern matching. **2005a:68009**
Lecture Notes in Computer Science ★ Combinatorial pattern matching. **2005a:68009**

68U20 Simulation [see also 65Cxx]

Items with secondary classifications in 68U20

Albin, J. M. P. On sampling of stationary increment processes. (English summary) **2005k:60115**
Antyufeev, V. S. (*with* Nikolaev, S. V.) Simulation of proteasomal protein degradation by the Monte Carlo method. (English summary)
Barrett, Chris L. (*with* Chen, William Y. C.; Zheng, Michelle J.) Discrete dynamical systems on graphs and Boolean functions. (English summary) **2005b:37025**
Ben-Ameur, Hatem (*with* L'Ecuyer, Pierre; Lemieux, Christiane) Combination of general antithetic transformations and control variables. (English summary) **2005i:65010**
Bhaskar, Atul *see* **Leary, Stephen J. et al., 2005h:90006**
Bischof, Christian H. (*with* Bücker, H. Martin; Rasch, Arno) Sensitivity analysis of turbulence models using automatic differentiation. (English summary) **2005i:76069**
Bücker, H. Martin *see* **Bischof, Christian H. et al., 2005i:76069**
Chen, William Y. C. *see* **Barrett, Chris L. et al., 2005b:37025**
Florea, Ion Upon multiservers preemptive queueing system: a formal and object oriented approach. (English summary) **2005b:60238**
— A simulation algorithm for a variable number of parallel stations queuing system of head-of-line type. (English summary) **2005h:60273**
Gammack, David (*with* Ganguli, Suman; Marino, Simeone; Segovia-Juarez, Jose L.; Kirschner, Denise E.) Understanding the immune response in tuberculosis using different mathematical models and biological scales. (English summary) **2005j:92003**
Ganguli, Suman *see* **Gammack, David et al., 2005j:92003**
Gåsemyr, Jørund (*with* Natvig, Bent; Nygård, Cecilie Sjuls) An application of adaptive independent chain Metropolis-Hastings algorithms in Bayesian hazard rate estimation (English summary) **2005f:65015**
Guclu, Hasan (*with* Korniss, György; Toroczkai, Zoltán; Novotny, Mark A.) Small-world synchronized computing networks for scalable parallel discrete-event simulations. (English summary) **2005h:68004**
Huang, Chongfu A demonstration of reliability of the interior-outer-set model. (English summary)
Keane, Andy J. *see* **Leary, Stephen J. et al., 2005h:90006**
Kirschner, Denise E. *see* **Gammack, David et al., 2005j:92003**
Korniss, György *see* **Guclu, Hasan et al., 2005h:68004**
Kozachenko, Yu. V. (*with* Rozora, Ī. V.) Accuracy and reliability of modeling random processes in the space $\mathrm{Sub}_{\varphi}(\Omega)$. (Ukrainian. Ukrainian summary) **2005m:60077**
Leary, Stephen J. (*with* Bhaskar, Atul; Keane, Andy J.) A derivative based surrogate model for approximating and optimizing the output of an expensive computer simulation. (English summary) **2005h:90006**
L'Ecuyer, Pierre *see* **Ben-Ameur, Hatem et al., 2005i:65010**
Lemieux, Christiane *see* **Ben-Ameur, Hatem et al., 2005i:65010**
Marino, Simeone *see* **Gammack, David et al., 2005j:92003**
Merhav, Neri (*with* Weinberger, Marcelo J.) On universal simulation of information sources using training data. (English summary) **2005b:62018**
Mortveit, H. S. (*with* Reidys, C. M.) Reduction of discrete dynamical systems over graphs (English summary) **2005d:37083**
Natvig, Bent *see* **Gåsemyr, Jørund et al., 2005f:65015**
Nikolaev, S. V. *see* **Antyufeev, V. S.**
Novotny, Mark A. *see* **Guclu, Hasan et al., 2005h:68004**
Nygård, Cecilie Sjuls *see* **Gåsemyr, Jørund et al., 2005f:65015**
Rasch, Arno *see* **Bischof, Christian H. et al., 2005i:76069**
Reidys, C. M. *see* **Mortveit, H. S., 2005d:37083**
Rozora, Ī. V. *see* **Kozachenko, Yu. V., 2005m:60077**
Segovia-Juarez, Jose L. *see* **Gammack, David et al., 2005j:92003**
Toroczkai, Zoltán *see* **Guclu, Hasan et al., 2005h:68004**
Toth, Daniell Adding interior points to an existing Brownian sheet lattice. (English summary) **2005c:60040**

Weinberger, Marcelo J. *see* **Merhav, Neri, 2005b:62018**
Zheng, Michelle J. *see* **Barrett, Chris L. et al., 2005b:37025**

68U35 Information systems (hypertext navigation, interfaces, decision support, etc.)

Alon, Noga (*with* Milo, Tova; Neven, Frank; Suciu, Dan; Vianu, Victor) XML with data values: typechecking revisited. (English summary) **2005g:68176**
André, Yves² (*with* Caron, Anne-Cécile; Debarbieux, Denis; Roos, Yves; Tison, Sophie) Extraction and implication of path constraints. (English summary) **2005m:68234**
Azar, Yossi (*with* Richter, Yossi) Management of multi-queue switches in QoS networks. (English summary) (*see* **2005j:68009**)
Babaioff, Moshe (*with* Nisan, Noam) Concurrent auctions across the supply chain. (English summary)
Bhargavan, Karthikeyan (*with* Fournet, Cédric; Gordon, Andrew D.) A semantics for web services authentication. (English summary) **2005m:68235**
Bielecki, Michał (*with* Hidders, Jan; Paredaens, Jan; Tyszkiewicz, Jerzy; Van Den Bussche, Jan) Navigating with a browser. (English summary) (*see* **2005a:68008**)
Birmingham, William P. *see* **Park, Sunju et al.**
Bongiovanni, Giancarlo (*with* Penna, Paolo) XOR-based schemes for fast parallel IP lookups. (English summary) **2005m:68236**
Borella, Michael S. On estimating long range dependence of network delay. (English summary)
Burke, Robin *see* **Sieg, Ahu et al.**, (**2005i:62003**)
Cancila, Daniela (*with* Honsell, Furio) A coalgebraic description of web interactions. (English summary) (*see* **2005b:68027**)
Caron, Anne-Cécile *see* **André, Yves² et al., 2005m:68234**
Chen, Ping *see* **Deeba, Elias et al.**
Cheng, Shein-Yun *see* **Heh, Jia-Sheng et al.**
Chien, Steve (*with* Dwork, Cynthia; Kumar, S. Ravi; Simon, Daniel R.; Sivakumar, Dandapani) Link evolution: analysis and algorithms. (English summary) **2005h:68164**
Cohen, Edith (*with* Halperin, Eran; Kaplan, Haim) Performance aspects of distributed caches using TTL-based consistency. (English summary) (*see* **2005a:68007**)
— (*with* Kaplan, Haim) Balanced-replication algorithms for distribution trees. (English summary) (*see* **2005c:68002**)
— (*with* Halperin, Eran; Kaplan, Haim) Performance aspects of distributed caches using TTL-based consistency. (English summary) **2005j:68113**
Collberg, Christian S. (*with* Proebsting, Todd A.) Problem identification using program checking. (English summary)
Cooper, Colin (*with* Frieze, Alan) Crawling on web graphs. (English summary) (*see* **2005i:68004**)
Crescenzi, Valter (*with* Mecca, Giansalvatore) Automatic information extraction from large websites. (English summary) **2005m:68237**
Cross, P. L. *see* **Noore, A.**
Debarbieux, Denis *see* **André, Yves² et al., 2005m:68234**
Deeba, Elias (*with* de Korvin, André; Chen, Ping) Generating and applying rules for web documents retrieval. (English summary)
Ding, Chris H. Q. (*with* Zha, Hong-yuan; He, Xiaofeng; Husbands, Parry; Simon, Horst D.) Link analysis: hubs and authorities on the World Wide Web. (English summary) **2005h:68165**
Durfee, Edmund H. *see* **Park, Sunju et al.**
Dwork, Cynthia *see* **Chien, Steve et al., 2005h:68164**
Fagin, Ronald (*with* Karlin, Anna R.; Kleinberg, Jon; Raghavan, Prabhakar; Rajagopalan, Sridhar; Rubinfeld, Ronitt; Sudan, Madhu; Tomkins, Andrew) Random walks with "back buttons" (extended abstract). (*see* **2005i:68003**)
Feder, Tomás (*with* Motwani, Rajeev; Panigrahy, Rina; Seiden, Steven S.; van Stee, Rob; Zhu, An) Combining request scheduling with web caching. (English summary) **2005f:68157**
Fournet, Cédric *see* **Bhargavan, Karthikeyan et al., 2005m:68235**
Frieze, Alan *see* **Cooper, Colin**, (**2005i:68004**)
Fukuda, Kensuke (*with* Takayasu, Hideki; Takayasu, Misako) A stochastic map model of phase transition in internet traffic. (English summary)
Gerstel, Ornan (*with* Kutten, Shay; Matichin, Rachel; Peleg, David) Hotlink enhancement algorithms for web directories (extended abstract). (English summary) (*see* **2005c:68004**)
Gordon, Andrew D. *see* **Bhargavan, Karthikeyan et al., 2005m:68235**
Halperin, Eran *see* **Cohen, Edith et al., 2005j:68113** *and* (**2005a:68007**)
He, Xiaofeng *see* **Ding, Chris H. Q. et al., 2005h:68165**
Heh, Jia-Sheng (*with* Cheng, Shein-Yun; Hsu, Chang-Kai) Nested state-transition graph data sequencing model with hierarchical taxonomy through radix coding. (English summary)
Henzinger, Monika R. Algorithmic challenges in web search engines. (English summary)
Hidders, Jan *see* **Bielecki, Michałet al.**, (**2005a:68008**)
Hong, Dawei (*with* Man, Shushuang) Analysis of Web search algorithm hits. (English summary) **2005d:68141**
Honsell, Furio *see* **Cancila, Daniela**, (**2005b:68027**)
Hsu, Chang-Kai *see* **Heh, Jia-Sheng et al.**
Husbands, Parry *see* **Ding, Chris H. Q. et al., 2005h:68165**
Jelenković, Predrag R. (*with* Radovanović, Ana) Optimizing LRU caching for variable document sizes. (English summary) **2005e:68246**
— (*with* Radovanović, Ana) Least-recently-used caching with dependent requests. (English summary) **2005e:68247**
Jiang, Pei Gang² *see* **Long, Tu Jing et al.**
Kang, Dazhou (*with* Xu, Bao-Wen; Lu, Jianjiang; Wang, Peng) Approximate querying between heterogeneous ontologies based on association matrix. (English and Chinese summaries)
Kaplan, Haim *see* **Cohen, Edith et al., 2005j:68113**; (**2005a:68007**) *and* (**2005c:68002**)
Karlin, Anna R. *see* **Fagin, Ronald et al.**, (**2005i:68003**)
Kesselman, Alexander (*with* Mansour, Yishay; van Stee, Rob) Improved competitive guarantees for QoS buffering. (English summary) (*see* **2005c:68003**)
Kleinberg, Jon *see* **Fagin, Ronald et al.**, (**2005i:68003**)
de Korvin, André *see* **Deeba, Elias et al.**
Kumar, S. Ravi *see* **Chien, Steve et al., 2005h:68164**
Kutten, Shay *see* **Gerstel, Ornan et al.**, (**2005c:68004**)
Langville, Amy N. (*with* Meyer, Carl D.) Deeper inside pagerank. (English summary)
Lempel, Ronny (*with* Moran, Shlomo) Competitive caching of query results in search engines. (English summary) **2005c:68281**
Li, Chun Wen *see* **Long, Tu Jing et al.**
Liu, Jin Hua *see* **Long, Tu Jing et al.**
Long, Tu Jing (*with* Sun, Zheng Shun; Li, Chun Wen; Jiang, Pei Gang²; Liu, Jin Hua) A new multifractal wavelet model for network traffic. (Chinese. English and Chinese summaries)
Lu, Jianjiang *see* **Kang, Dazhou et al.**
Mahmoud, Hosam M. Random sprouts as internet models, and Pólya processes. (English summary) **2005m:68238**
Man, Shushuang *see* **Hong, Dawei**, **2005d:68141**
Mansour, Yishay *see* **Kesselman, Alexander et al.**, (**2005c:68003**)
Markarian, Roberto (*with* Möller, Nelson) The importance of each node in a structure of links: Google-PageRank™. (Spanish. Spanish summary)
Matichin, Rachel *see* **Gerstel, Ornan et al.**, (**2005c:68004**)
Mecca, Giansalvatore *see* **Crescenzi, Valter**, **2005m:68237**
Meng, Weiyi *see* **Wu, Wensheng et al.**, (**2005i:62003**)
Meyer, Carl D. *see* **Langville, Amy N.**
Milo, Tova *see* **Alon, Noga et al., 2005g:68176**
Mitzenmacher, Michael A brief history of generative models for power law and lognormal distributions. (English summary) **2005c:68282**
— Dynamic models for file sizes and double pareto distributions. (English summary) **2005h:68166**
Mobasher, Bamshad *see* **Sieg, Ahu et al.**, (**2005i:62003**)
Möller, Nelson *see* **Markarian, Roberto**
Moran, Shlomo *see* **Lempel, Ronny**, **2005c:68281**
Motwani, Rajeev *see* **Feder, Tomás et al., 2005f:68157**
Neven, Frank *see* **Alon, Noga et al., 2005g:68176**
Nisan, Noam *see* **Babaioff, Moshe**
Noore, A. (*with* Cross, P. L.) Modeling the reliability of large dynamic distributed non-homogeneous networks.
Pandurangan, Gopal (*with* Raghavan, Prabhakar; Upfal, Eli) Using PageRank to characterize Web structure. (English summary) (*see* **2005a:68012**)
Panigrahy, Rina *see* **Feder, Tomás et al., 2005f:68157**
Papadimitriou, Christos H. Algorithms, games, and the internet. (English summary) (*see* **2005j:68008**)
Paredaens, Jan *see* **Bielecki, Michałet al.**, (**2005a:68008**)
Park, Sunju (*with* Durfee, Edmund H.; Birmingham, William P.) Use of Markov chains to design an agent bidding strategy for continuous double actions. (English summary)
Peleg, David *see* **Gerstel, Ornan et al.**, (**2005c:68004**)
Penna, Paolo *see* **Bongiovanni, Giancarlo**, **2005m:68236**
Proebsting, Todd A. *see* **Collberg, Christian S.**
Pruhs, Kirk R. (*with* Uthaisombut, Patchrawat) A comparison of multicast pull models. (English summary) **2005m:68239**
Qing, Si-han *see* **Wen, Wei-ping**
Radovanović, Ana *see* **Jelenković, Predrag R., 2005e:68246** *and* **2005e:68247**
Raghavan, Prabhakar *see* **Pandurangan, Gopal et al.**, (**2005a:68012**) *and* **Fagin, Ronald et al.**, (**2005i:68003**)
Rajagopalan, Sridhar *see* **Fagin, Ronald et al.**, (**2005i:68003**)
Richter, Yossi *see* **Azar, Yossi**, (**2005j:68009**)
Roos, Yves *see* **André, Yves² et al., 2005m:68234**
Rubinfeld, Ronitt *see* **Fagin, Ronald et al.**, (**2005i:68003**)
Seiden, Steven S. *see* **Feder, Tomás et al., 2005f:68157**
Sella, Yaron Speeding up secure sessions establishment on the Internet. (English summary) (*see* **2005b:94052**)
Shakkottai, Sanjay (*with* Srikant, Rayadurgam) Mean FDE models for internet congestion control under a many-flows regime. (English summary) **2005e:68248**
Sieg, Ahu (*with* Mobasher, Bamshad; Burke, Robin) Inferring user's information context from user profiles and concept hierarchies. (English summary) (*see* **2005i:62003**)
Simon, Daniel R. *see* **Chien, Steve et al., 2005h:68164**
Simon, Horst D. *see* **Ding, Chris H. Q. et al., 2005h:68165**
Sivakumar, Dandapani *see* **Chien, Steve et al., 2005h:68164**
Srikant, Rayadurgam *see* **Shakkottai, Sanjay**, **2005e:68248**
van Stee, Rob *see* **Feder, Tomás et al., 2005f:68157** *and* **Kesselman, Alexander et al.**, (**2005c:68003**)
Suciu, Dan *see* **Alon, Noga et al., 2005g:68176**
Sudan, Madhu *see* **Fagin, Ronald et al.**, (**2005i:68003**)
Sufyan Beg, M. M. A subjective measure of web search quality. (English summary)
— User feedback based enhancement in web search quality. (English summary)
Sun, Zheng Shun *see* **Long, Tu Jing et al.**
Takayasu, Hideki *see* **Fukuda, Kensuke et al.**
Takayasu, Misako *see* **Fukuda, Kensuke et al.**
Tennenholtz, Moshe Program equilibrium. (English summary) **2005g:68177**
Tison, Sophie *see* **André, Yves² et al., 2005m:68234**
Tomkins, Andrew *see* **Fagin, Ronald et al.**, (**2005i:68003**)
Trub, I. I. On an optimal strategy for generating results for queries to a database internet server. (Russian. Russian summary)
Tyszkiewicz, Jerzy *see* **Bielecki, Michałet al.**, (**2005a:68008**)
Upfal, Eli *see* **Pandurangan, Gopal et al.**, (**2005a:68012**)
Uthaisombut, Patchrawat *see* **Pruhs, Kirk R., 2005m:68239**
Van Den Bussche, Jan *see* **Bielecki, Michałet al.**, (**2005a:68008**)
Vianu, Victor *see* **Alon, Noga et al., 2005g:68176**
Wang, Peng *see* **Kang, Dazhou et al.**
Wen, Wei-ping (*with* Qing, Si-han) Mechanism and defense on malicious code. (English summary)

Wu, Wensheng (*with* Yu, Clement; Meng, Weiyi) Database selection for longer queries. (*see* **2005i:62003**)
Xu, Bao-Wen *see* **Kang, Dazhou et al.**
Xu, Cheng-Zhong[2] ★ Scalable and secure internet services and architecture.
Yu, Clement *see* **Wu, Wensheng et al.**, (**2005i:62003**)
Zha, Hong-yuan *see* **Ding, Chris H. Q. et al.**, **2005h:68165**
Zhu, An *see* **Feder, Tomás et al.**, **2005f:68157**

Items with secondary classifications in 68U35

Albert, Réka *see* **Barabási, Albert-László**
Alon, Noga (*with* Milo, Tova; Neven, Frank; Suciu, Dan; Vianu, Victor) Typechecking XML views of relational databases. (English summary) **2005a:68056**
Arimura, Hiroki Efficient text mining with optimized pattern discovery. (English summary) (*see* **2005a:68009**)
Arora, Sanjeev (*with* Brinkman, Bo) A randomized online algorithm for bandwidth utilization. (English summary)
Arvanitis, Theodoros N. *see* **Stepanenko, Alexander S. et al.**, **2005m:68020**
Bachelet, Bruno (*with* Mahey, Philippe) Minimum convex-cost tension problems on series-parallel graphs. (English summary) **2005b:68208**
Baeza-Yates, Ricardo (*with* Navarro, Gonzalo) Modeling text databases. (English summary) (*see* **2005f:60007**)
Bao, Feng *see* **Wang, Guilin et al.**
Barabási, Albert-László (*with* Albert, Réka) Emergence of scaling in random networks. (English summary)
Bargachev, V. Some properties of min-wise independent families and groups of permutations. (Russian. English and Russian summaries) **2005g:68126**
Biskup, Joachim (*with* Bonatti, Piero A.) Controlled query evaluation for known policies by combining lying and refusal. (English summary) **2005a:68058**
Blumrosen, Liad (*with* Nisan, Noam; Segal, Ilya) Multi-player and multi-round auctions with severely bounded communication. (English summary) (*see* **2005c:68003**)
Bonatti, Piero A. *see* **Biskup, Joachim**, **2005a:68058**
Borrell, Joan *see* **Castellà-Roca, Jordi et al.**, (**2005d:94154**)
Bouchou, Béatrice (*with* Duarte, Denio; Halfeld Ferrari Alves, Mírian; Laurent, Dominique; Musicante, Martin A.) Schema evolution for XML: a consistency-preserving approach. (English summary) **2005m:68051**
Brandes, Ulrik (*with* Cornelsen, Sabine) Visual ranking of link structures. (English summary) **2005h:68117**
Brinkman, Bo *see* **Arora, Sanjeev**
Buckley, James J. ★ Fuzzy probabilities and fuzzy sets for web planning. **2005a:60008**
Castellà-Roca, Jordi (*with* Domingo-Ferrer, Josep; Riera, Andreu; Borrell, Joan) Practical mental poker without a TTP based on homomorphic encryption. (English summary) (*see* **2005d:94154**)
Charikar, Moses S. (*with* Fagin, Ronald; Guruswami, Venkatesan; Kleinberg, Jon; Raghavan, Prabhakar; Sahai, Amit) Query strategies for priced information (extended abstract). (*see* **2005i:68003**)
Chen, Shu-Ching (*with* Wang, Xinran; Rishe, Naphtali; Weiss, Mark Allen) A web-based spatial data access system using semantic *R*-trees. (English summary)
Chen, Tzer-Shyong A threshold signature scheme based on the elliptic curve cryptosystem. (English summary) **2005j:94022**
Chothia, Tom (*with* Duggan, Dominic) Abstractions for fault-tolerant global computing. (English summary) **2005b:68037**
Chung, Fan (*with* Lu, Linyuan) The small world phenomenon in hybrid power law graphs. (English summary) **2005j:05080**
— (*with* Lu, Linyuan) Coupling online and offline analyses for random power law graphs. (English summary) **2005j:05081**
Cohen, Edith (*with* Kaplan, Haim) Balanced-replication algorithms for distribution trees. (English summary) **2005j:68117**
Constantinou, Constantinos C. *see* **Stepanenko, Alexander S. et al.**, **2005m:68020**
Cooper, Colin Classifying special interest groups in web graphs. (English summary) **2005c:05186**
— (*with* Frieze, Alan) Crawling on simple models of web graphs. (English summary) **2005e:05123**
— (*with* Frieze, Alan; Vera, Juan-Carlos) Random deletion in a scale-free random graph process. (English summary) **2005k:05214**
Cornelsen, Sabine *see* **Brandes, Ulrik**, **2005h:68117**
Csirik, János A. *see* **Stone, Peter et al.**
Davison, Andrew Logic programming languages for the internet. (English summary) (*see* **2005f:68005a**)
Diligenti, Michelangelo (*with* Gori, Marco; Maggini, Marco) Neural computation, social networks, and topological spectra. (English summary) **2005c:91109**
Domingo-Ferrer, Josep *see* **Castellà-Roca, Jordi et al.**, (**2005d:94154**)
Dorogovtsev, Sergei N. (*with* Mendes, José F. F.) ★ Evolution of networks. **2005d:05002**
— (*with* Goltsev, Alexander V.; Mendes, José F. F.; Samukhin, Alexander N.) Random networks: eigenvalue spectra. (English summary) **2005d:05132**
Duarte, Denio *see* **Bouchou, Béatrice et al.**, **2005m:68051**
Duggan, Dominic *see* **Chothia, Tom**, **2005b:68037**
Eiter, Thomas (*with* Mascardi, Viviana; Subrahmanian, V. S.) Error-tolerant agents. (English summary) (*see* **2005f:68005a**)
Fabrikant, Alex (*with* Koutsoupias, Elias; Papadimitriou, Christos H.) Heuristically optimized trade-offs: a new paradigm for power laws in the internet. (English summary) (*see* **2005a:68008**)
Fagin, Ronald *see* **Charikar, Moses S. et al.**, (**2005i:68003**)
Feigenbaum, Joan (*with* Papadimitriou, Christos H.; Shenker, Scott) Sharing the cost of multicast transmissions (preliminary version). (*see* **2005i:68003**)
Fierro, Ricardo D. (*with* Jiang, Eric P.) Lanczos and the Riemannian SVD in information retrieval applications. (English summary) **2005m:65078**
Flesca, Sergio (*with* Greco, Sergio) Partially ordered regular languages for graph queries. (English summary) **2005h:68025**
Fortz, Bernard (*with* Thorup, Mikkel) Increasing internet capacity using local search. (English summary) **2005e:90016**
Freund, Ari (*with* Naor, Joseph) Approximating the advertisement placement problem. (English summary) **2005f:68167**
Frieze, Alan *see* **Cooper, Colin et al.**, **2005e:05123** *and* **2005k:05214**
García Calvillo, Irma Delia *see* **Madrid de la Vega, Humberto et al.**, (**2005i:00011**)
Gaul, Wolfgang (*with* Schmidt-Thieme, Lars) Mining web navigation path fragments. (English summary) (*see* **2005b:62010**)
Ghim, Chul-Min *see* **Goh, Kwang-Il et al.**, **2005h:90149**
Goh, Kwang-Il (*with* Oh, Eulsik; Ghim, Chul-Min; Kahng, Byungnam; Kim, Doochul) Classes of the shortest pathway structures in scale free networks. (English summary) **2005h:90149**
Goldberg, Andrew V. (*with* Hartline, Jason D.; Karlin, Anna R.; Saks, Michael) A lower bound on the competitive ratio of truthful auctions. (English summary) **2005e:91061**
Goltsev, Alexander V. *see* **Dorogovtsev, Sergei N. et al.**, **2005d:05132**
Gori, Marco *see* **Diligenti, Michelangelo et al.**, **2005c:91109**
Grebogi, Celso *see* **de Moura, Alessandro P. S. et al.**, **2005e:68009**
Greco, Sergio *see* **Flesca, Sergio**, **2005h:68025**
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Guruswami, Venkatesan *see* **Charikar, Moses S. et al.**, (**2005i:68003**)
Halfeld Ferrari Alves, Mírian *see* **Bouchou, Béatrice et al.**, **2005m:68051**
Hartline, Jason D. *see* **Goldberg, Andrew V. et al.**, **2005e:91061**
Hazewinkel, Michiel Dynamic stochastic models for indexes and thesauri, identification clouds, and information retrieval and storage. (English summary) (*see* **2005f:60007**)
Jiang, Eric P. *see* **Fierro, Ricardo D.**, **2005m:65078**
Juszczyszyn, Krzysztof (*with* Sachse, Paweł) Assessing trust in the semantic web. (English summary)
Kahng, Byungnam *see* **Goh, Kwang-Il et al.**, **2005h:90149**
Kaplan, Haim *see* **Cohen, Edith**, **2005j:68117**
Karlin, Anna R. *see* **Goldberg, Andrew V. et al.**, **2005e:91061**
Kesselman, Alexander (*with* Lotker, Zvi; Mansour, Yishay; Patt-Shamir, Boaz) Buffer overflows of merging streams. (English summary) (*see* **2005c:68003**)
— (*with* Mansour, Yishay) Harmonic buffer management policy for shared memory switches. (English summary) **2005c:68024**
Kilgarriff, Adam (*with* Grefenstette, Gregory) Introduction to the special issue on the web as corpus. (English summary)
Kim, Doochul *see* **Goh, Kwang-Il et al.**, **2005h:90149**
Kim, Sung-Ryul (*with* Lee, Inbok; Park, Kunsoo) A fast algorithm for the generalized k-keyword proximity problem given keyword offsets. (English summary) **2005b:68295**
Kimura, Masahiro (*with* Saito, Kazumi; Ueda, Naonori) Modeling share dynamics by extracting competition structure. (English summary) **2005m:62164**
Kleinberg, Jon (*with* Sandler, Mark) Using mixture models for collaborative filtering. (English summary) (*see* **2005i:68005**)
— *see also* **Charikar, Moses S. et al.**, (**2005i:68003**)
Kleinberg, Robert D. (*with* Leighton, Frank Thomson) Consistent load balancing via spread minimization. (English summary) **2005k:68016**
Kolev, Boyan Generalized nets in modeling relational database management systems. (English summary)
Koutsoupias, Elias Selfish task allocation.
— *see also* **Fabrikant, Alex et al.**, (**2005a:68008**)
Krishnamoorthy, Mukkai S. *see* **Punin, J. R. et al.**, (**2005b:62008**)
Kurosawa, Kaoru *see* **Ogata, Wakaha**, **2005f:94141**
Laurent, Dominique *see* **Bouchou, Béatrice et al.**, **2005m:68051**
Lee, Inbok *see* **Kim, Sung-Ryul et al.**, **2005b:68295**
Leighton, Frank Thomson *see* **Kleinberg, Robert D.**, **2005k:68016**
Li, Chun Lin *see* **Li, La Yuan**
Li, Juan Zi *see* **Zhang, Kuo et al.**
Li, La Yuan (*with* Li, Chun Lin) A QoS multicast routing protocol for dynamic group topology. (English summary)
Li, Shi Qu *see* **Zhang, Wen Ying**[1] **et al.**
Ling, Yibei (*with* Mi, Jie) An optimal trade-off between content freshness and refresh cost. (English summary) **2005i:94026**
Littman, Michael L. *see* **Stone, Peter et al.**
(Loia, Vincenzo) *see* **Fuzzy logic and the internet**, **2005b:68002**
Lomonosov, Andrew (*with* Sitharam, Meera; Park, Kihong[2]) Network QoS games: stability vs optimality tradeoff. (English summary) **2005d:91006**
Lotker, Zvi *see* **Kesselman, Alexander et al.**, (**2005c:68003**)
Lu, Linyuan *see* **Chung, Fan**, **2005j:05080** *and* **2005j:05081**
Lü, Teng *see* **Yan, Ping et al.**
Madrid de la Vega, Humberto (*with* García Calvillo, Irma Delia; Resendiz Flores, Edgar Omar) Internet search engines and singular value decomposition. (Spanish. Spanish summary) (*see* **2005i:00011**)
Maggini, Marco *see* **Diligenti, Michelangelo et al.**, **2005c:91109**
Mahey, Philippe *see* **Bachelet, Bruno**, **2005b:68208**
Malkhi, Dahlia Locality-aware network solutions (a survey).
Mansour, Yishay *see* **Kesselman, Alexander et al.**, **2005c:68024** *and* (**2005c:68003**)
Martens, Wim (*with* Neven, Frank; Schwentick, Thomas) Complexity of decision problems for simple regular expressions. (English summary) **2005m:68130**
Mascardi, Viviana *see* **Eiter, Thomas et al.**, (**2005f:68005a**)
Masugi, Masao Detrended fluctuation analysis of IP-network traffic using a two-dimensional topology map. (English summary)
Matichin, Rachel (*with* Peleg, David) Approximation algorithm for hotlink assignments in web directories. (English summary) (*see* **2005b:68005**)
— (*with* Peleg, David) Approximation algorithm for hotlink assignment in the greedy model. (English summary)
Matsumoto, Satoshi (*with* Suzuki, Yusuke[2]; Shoudai, Takayoshi; Miyahara, Tetsuhiro; Uchida, Tomoyuki) Learning of finite unions of tree patterns with repeated internal structured variables from queries. (English summary) (*see* **2005a:68004**)
— *see also* **Suzuki, Yusuke**[2] **et al.**, (**2005a:68004**)
McAllester, David *see* **Stone, Peter et al.**
Mendes, José F. F. *see* **Dorogovtsev, Sergei N. et al.**, **2005d:05002** *and* **2005d:05132**
Mi, Jie *see* **Ling, Yibei**, **2005i:94026**

Milo, Tova *see* **Alon, Noga et al., 2005a:68056**
Miyahara, Tetsuhiro *see* **Suzuki, Yusuke[2] et al., (2005a:68004)** *and* **Matsumoto, Satoshi et al., (2005a:68004)**
Moinzadeh, Kamran *see* **Tan, Yong et al., 2005j:90013**
Mookerjee, Vijay S. *see* **Tan, Yong et al., 2005j:90013**
Motter, Adilson E. *see* **de Moura, Alessandro P. S. et al., 2005e:68009**
de Moura, Alessandro P. S. (*with* Motter, Adilson E.; Grebogi, Celso) Searching in small-world networks. (English summary) **2005e:68009**
Musicante, Martin A. *see* **Bouchou, Béatrice et al., 2005m:68051**
Naor, Joseph *see* **Freund, Ari, 2005f:68167**
Navarro, Gonzalo *see* **Baeza-Yates, Ricardo, (2005f:60007)**
Neven, Frank *see* **Alon, Noga et al., 2005a:68056** *and* **Martens, Wim et al., 2005m:68130**
(Nikravesh, Masoud) *see* **Fuzzy logic and the internet, 2005b:68002**
Nisan, Noam *see* **Blumrosen, Liad et al., (2005c:68003)**
Ogata, Wakaha (*with* Kurosawa, Kaoru) Bounds for robust metering schemes and their relationship with A^2-code. (English summary) **2005f:94141**
Oh, Eulsik *see* **Goh, Kwang-Il et al., 2005h:90149**
Papadimitriou, Christos H. *see* **Fabrikant, Alex et al., (2005a:68008)** *and* **Feigenbaum, Joan et al., (2005i:68003)**
Park, Kihong[2] *see* **Lomonosov, Andrew et al., 2005d:91006**
Park, Kunsoo *see* **Kim, Sung-Ryul et al., 2005b:68295**
Pastor-Satorras, Romualdo (*with* Vázquez, Alexei; Vespignani, Alessandro) Topology, hierarchy, and correlations in internet graphs. (English summary) **2005m:91172**
Patt-Shamir, Boaz *see* **Kesselman, Alexander et al., (2005c:68003)**
Peleg, David *see* **Matichin, Rachel, (2005b:68005)**
Punin, J. R. (*with* Krishnamoorthy, Mukkai S.; Zaki, Mohammed Javeed) Web usage mining—languages and algorithms. (English summary) (*see* **2005b:62008**)
Qu, Wei Min (*with* Sun, Le; Sun, Yu Fang) A result size estimation algorithm for value predication in XML query. (Chinese. English and Chinese summaries)
Raghavan, Prabhakar *see* **Charikar, Moses S. et al., (2005i:68003)**
Resendiz Flores, Edgar Omar *see* **Madrid de la Vega, Humberto et al., (2005i:00011)**
Riera, Andreu *see* **Castellà-Roca, Jordi et al., (2005d:94154)**
Rishe, Naphtali *see* **Chen, Shu-Ching et al.**
Sachse, Paweł *see* **Juszczyszyn, Krzysztof**
Sahai, Amit *see* **Charikar, Moses S. et al., (2005i:68003)**
Saito, Kazumi *see* **Kimura, Masahiro et al., 2005m:62164**
Saks, Michael *see* **Goldberg, Andrew V. et al., 2005e:91061**
Samukhin, Alexander N. *see* **Dorogovtsev, Sergei N. et al., 2005d:05132**
Sandler, Mark *see* **Kleinberg, Jon, (2005i:68005)**
Schapire, Robert E. *see* **Stone, Peter et al.**
Schmidt-Thieme, Lars ★ Assoziationsregel-Algorithmen für Daten mit komplexer Struktur. (German) [Association rule algorithms for data with complex structure]
— *see also* **Gaul, Wolfgang, (2005b:62010)**
Schwentick, Thomas *see* **Martens, Wim et al., 2005m:68130**
Segal, Ilya *see* **Blumrosen, Liad et al., (2005c:68003)**
Sheng, Qi-rong *see* **Yan, Ping et al.**
Shenker, Scott *see* **Feigenbaum, Joan et al., (2005i:68003)**
Shi, Bai Le *see* **Tan, Zi Jing**
Shoudai, Takayoshi *see* **Suzuki, Yusuke[2] et al., (2005a:68004)** *and* **Matsumoto, Satoshi et al., (2005a:68004)**
(Singh, Munindar P.) *see* **Practical handbook of internet computing**
Sitharam, Meera *see* **Lomonosov, Andrew et al., 2005d:91006**
Stepanenko, Alexander S. (*with* Constantinou, Constantinos C.; Arvanitis, Theodoros N.) Large-scale behaviour of packet-switched networks: theoretical analysis framework. (English summary) **2005m:68020**
Stone, Peter (*with* Schapire, Robert E.; Littman, Michael L.; Csirik, János A.; McAllester, David) Decision-theoretic bidding based on learned density models in simultaneous, interacting auctions. (English summary)
Subrahmanian, V. S. *see* **Eiter, Thomas et al., (2005f:68005a)**
Suciu, Dan *see* **Alon, Noga et al., 2005a:68056**
Sun, Le *see* **Qu, Wei Min et al.**
Sun, Yu Fang *see* **Qu, Wei Min et al.**
Suzuki, Yusuke[2] (*with* Shoudai, Takayoshi; Matsumoto, Satoshi; Uchida, Tomoyuki; Miyahara, Tetsuhiro) Efficient learning of ordered and unordered tree patterns with contractible variables. (English summary) (*see* **2005a:68004**)
— *see also* **Matsumoto, Satoshi et al., (2005a:68004)**
Tadić, Bosiljka Modeling traffic of information packets on graphs with complex topology. (English summary) (*see* **2005c:00014**)
Tan, Yong (*with* Moinzadeh, Kamran; Mookerjee, Vijay S.) Optimal processing policies for an e-commerce web server. (English summary) **2005j:90013**
Tan, Zi Jing (*with* Shi, Bai Le) Propagating functional dependency and normalization between relations and XML. (Chinese. English and Chinese summaries)
Thorup, Mikkel Quick k-median, k-center, and facility location for sparse graphs. (English summary) (*see* **2005a:68007**)
— *see also* **Fortz, Bernard, 2005e:90016**
Uchida, Tomoyuki *see* **Suzuki, Yusuke[2] et al., (2005a:68004)** *and* **Matsumoto, Satoshi et al., (2005a:68004)**
Ueda, Naonori *see* **Kimura, Masahiro et al., 2005m:62164**
Vázquez, Alexei *see* **Pastor-Satorras, Romualdo et al., 2005m:91172**
Vera, Juan-Carlos *see* **Cooper, Colin et al., 2005k:05214**
Vespignani, Alessandro *see* **Pastor-Satorras, Romualdo et al., 2005m:91172**
Vianu, Victor *see* **Alon, Noga et al., 2005a:68056**
Wang, Guilin (*with* Bao, Feng; Zhou, Jianying) On the security of a certified e-mail scheme. (English summary)
Wang, Ke Hong *see* **Zhang, Kuo et al.**
Wang, Xinran *see* **Chen, Shu-Ching et al.**
Weiss, Mark Allen *see* **Chen, Shu-Ching et al.**
Wu, Chuan-Kun *see* **Zhang, Wen Ying[1] et al.**
Xu, Peng[2] *see* **Zhang, Kuo et al.**
Yan, Ping (*with* Lü, Teng; Sheng, Qi-rong) On XML-data schema consistency problem. (English and Chinese summaries)
(Zadeh, Lotfi A.) *see* **Fuzzy logic and the internet, 2005b:68002**
Zaki, Mohammed Javeed *see* **Punin, J. R. et al., (2005b:62008)**
Zhang, Kuo (*with* Xu, Peng[2]; Li, Juan Zi; Wang, Ke Hong) Optimized hierarchy clustering based extraction for document logical structures. (Chinese. English and Chinese summaries)
Zhang, Wen Ying[1] (*with* Wu, Chuan-Kun; Li, Shi Qu) Construction of cryptographically important Boolean permutations. (English summary)
Zhou, Jianying *see* **Wang, Guilin et al.**

Items listed otherwise than by author

Conference:
Web Information System and Applications, 1st ★ The First Conference on Web Information System and Applications.
Fuzzy logic and the internet ★ Fuzzy logic and the internet. **2005b:68002**
Practical handbook of internet computing ★ The practical handbook of internet computing.
Wuhan ★ The First Conference on Web Information System and Applications.

68U99 None of the above, but in this section

Items with secondary classifications in 68U99

Abbas, S. E. *see* **Farrag, A. S., 2005m:54015**
Berdyshev, V. I. Navigation by means of the field of altitudes and its fragment. (English summary) **2005h:70029**
Białynicka-Birula, Iwona *see* **Białynicki-Birula, Iwo, 2005h:00002**
Białynicki-Birula, Iwo (*with* Białynicka-Birula, Iwona) ★ Modeling reality. **2005h:00002**
Dwork, Cynthia (*with* Goldberg, Andrew V.; Naor, Moni) On memory-bound functions for fighting spam. (English summary) **2005e:94230**
Farrag, A. S. (*with* Abbas, S. E.) Computer programming for construction and enumeration of all regular topologies and equivalence relations on finite sets. (English summary) **2005m:54015**
Goldberg, Andrew V. *see* **Dwork, Cynthia et al., 2005e:94230**
Iske, Armin ★ Multiresolution methods in scattered data modelling. **2005f:94023**
Mizushima, Shigeru Computer experiments for circle packings on surfaces. (English summary) **2005f:52039**
Naor, Moni *see* **Dwork, Cynthia et al., 2005e:94230**

68Wxx Algorithms {For numerical algorithms, see 65–XX; for combinatorics and graph theory, see 68Rxx.}

Items with secondary classifications in 68Wxx

(Dehne, Frank) *see* **Algorithms and data structures, 2005b:68005**
(Di Battista, Giuseppe) *see* **Algorithms—ESA 2003, 2005c:68003**
(Möhring, Rolf H.) *see* **Algorithms—ESA 2002, 2005c:68002**
(Penttonen, Martti) *see* **Algorithm theory—SWAT 2002, 2005a:68002**
(Raita, Timo) *see* **Algorithm theory—SWAT 2002, 2005a:68002**
(Raman, Rajeev) *see* **Algorithms—ESA 2002, 2005c:68002**
(Sack, Jörg-Rüdiger) *see* **Algorithms and data structures, 2005b:68005**
(Schmidt, Erik Meineche) *see* **Algorithm theory—SWAT 2002, 2005a:68002**
(Smid, Michiel) *see* **Algorithms and data structures, 2005b:68005**
(Zwick, Uri) *see* **Algorithms—ESA 2003, 2005c:68003**

Items listed otherwise than by author

Algorithm theory—SWAT 2002 ★ Algorithm theory—SWAT 2002. **2005a:68002**
Algorithms and data structures ★ Algorithms and data structures. **2005b:68005**
Algorithms—ESA 2002 ★ Algorithms—ESA 2002. **2005c:68002**
Algorithms—ESA 2003 ★ Algorithms—ESA 2003. **2005c:68003**
Budapest ★ Algorithms—ESA 2003. **2005c:68003**
Lecture Notes in Computer Science ★ Algorithm theory—SWAT 2002. **2005a:68002**
— ★ Algorithms—ESA 2002. **2005c:68002**
— ★ Algorithms and data structures. **2005b:68005**
— ★ Algorithms—ESA 2003. **2005c:68003**
Ottawa, ON ★ Algorithms and data structures. **2005b:68005**
Rome ★ Algorithms—ESA 2002. **2005c:68002**
Turku ★ Algorithm theory—SWAT 2002. **2005a:68002**

68W01 General

Buchberger, Bruno Algorithm invention and verification by lazy thinking. (English summary) **2005f:68158**
Chen, Jian-Er (*with* Friesen, Donald K.; Jia, Weijia; Kanj, Iyad A.) Using nondeterminism to design efficient deterministic algorithms. (English summary) **2005g:68178**
Finkelstein, Lev (*with* Markovitch, Shaul; Rivlin, Ehud) Optimal schedules for parallelizing anytime algorithms: the case of shared resources. (English summary) **2005h:68167**
Friesen, Donald K. *see* **Chen, Jian-Er et al., 2005g:68178**
Jia, Weijia *see* **Chen, Jian-Er et al., 2005g:68178**
Kanj, Iyad A. *see* **Chen, Jian-Er et al., 2005g:68178**
Markovitch, Shaul *see* **Finkelstein, Lev et al., 2005h:68167**
Rivlin, Ehud *see* **Finkelstein, Lev et al., 2005h:68167**
Sanders, Peter Algorithms for memory hierarchies. (English summary)

Items with secondary classifications in 68W01

Finocchi, Irene (*with* Italiano, Giuseppe F.) Sorting and searching in the presence of memory faults (without redundancy). (English summary) **2005j:68139**
Italiano, Giuseppe F. *see* **Finocchi, Irene, 2005j:68139**

(Mehta, Dinesh P.) *see* **Handbook of data structures and applications, 2005m:68003**
Orlin, James B. (*with* Schulz, Andreas S.; Sengupta, Sudipta[2]) ε-optimization schemes and L-bit precision: alternative perspectives in combinatorial optimization. (English summary) (*see* **2005i:68003**)
(Sahni, Sartaj) *see* **Handbook of data structures and applications, 2005m:68003**
Schulz, Andreas S. *see* **Orlin, James B. et al., (2005i:68003)**
Sengupta, Sudipta[2] *see* **Orlin, James B. et al., (2005i:68003)**
Skobelev, V. G. Searching: models and methods. (English and Estonian summaries) **2005m:68190**

Items listed otherwise than by author

Handbook of data structures and applications ★ Handbook of data structures and applications. **2005m:68003**

68W05 Nonnumerical algorithms

Abdeddaïm, Saïd *see* **Pelfrêne, Johann et al., (2005a:68010)**
Abouelhoda, Mohamed Ibrahim (*with* Ohlebusch, Enno) Multiple genome alignment: chaining algorithms revisited. (English summary) (*see* **2005a:68010**)
Alexandre, Joël *see* **Pelfrêne, Johann et al., (2005a:68010)**
Amir, Amihood (*with* Landau, Gad M.; Lewenstein, Moshe; Sokol, Dina) Dynamic text and static pattern matching. (English summary) (*see* **2005b:68005**)
— (*with* Butman, Ayelet; Lewenstein, Moshe; Porat, Ely) Real two dimensional scaled matching. (English summary) (*see* **2005b:68005**)
— (*with* Aumann, Yonatan; Cole, Richard; Lewenstein, Moshe; Porat, Ely) Function matching: algorithms, applications, and a lower bound. (English summary) (*see* **2005b:68008**)
— (*with* Butman, Ayelet; Crochemore, Maxime; Landau, Gad M.; Schaps, Mary E.) Two-dimensional pattern matching with rotations. (English summary) (*see* **2005a:68010**)
— (*with* Landau, Gad M.; Sokol, Dina) Inplace 2D matching in compressed images. (English summary) **2005g:68179**
— (*with* Lewenstein, Moshe; Porat, Ely) Faster algorithms for string matching with k mismatches. (English summary) **2005a:68223**
— (*with* Butman, Ayelet; Crochemore, Maxime; Landau, Gad M.; Schaps, Mary E.) Two-dimensional pattern matching with rotations. (English summary) **2005e:68249**
Arikawa, Setsuo *see* **Inenaga, Shunsuke et al., 2005h:68169** *and* **(2005b:68019)**
Arnavut, Ziya A fast and memory efficient algorithm for transforming between permutations and inversion tables. (English summary)
Arslan, Abdullah N. (*with* Eğecioğlu, Ömer) Dictionary look-up within small edit distance. (English summary) (*see* **2005a:68012**)
Aumann, Yonatan *see* **Amir, Amihood et al., (2005b:68008)**
Baeza-Yates, Ricardo (*with* Navarro, Gonzalo) Text searching: theory and practice. (English summary) (*see* **2005g:68088**)
Bannai, Hideo *see* **Inenaga, Shunsuke et al., (2005b:68019)**
Bar-Noy, Amotz (*with* Ladner, Richard E.) Efficient algorithms for optimal stream merging for media-on-demand. (English summary) **2005e:68250**
Behzadi, Behshad (*with* Steyaert, Jean-Marc) An improved algorithm for generalized comparison of minisatellites. (English summary) (*see* **2005a:68010**)
Benkoczi, Robert (*with* Bhattacharya, Binay; Chrobak, Marek; Larmore, Lawrence L.; Rytter, Wojciech) Faster algorithms for k-medians in trees (extended abstract). (English summary) (*see* **2005b:68020**)
Bereg, Sergei (*with* Kelarev, Andrei V.) An algorithm for analysis of images in spatial information systems. (English summary) **2005a:68224**
Bhattacharya, Binay *see* **Benkoczi, Robert et al., (2005b:68020)**
Biedl, Therese (*with* Brejová, Broňa; Demaine, Erik D.; Hamel, Angèle M.; López-Ortiz, Alejandro; Vinař, Tomáš) Finding hidden independent sets in interval graphs. (English summary) **2005c:68283**
Bille, Philip A survey on tree edit distance and related problems. (English summary) **2005m:68240**
Bodlaender, Hans L. (*with* Telle, Jan Arne) Space-efficient construction variants of dynamic programming. (English summary) **2005i:68085**
Brejová, Broňa *see* **Biedl, Therese et al., 2005c:68283**
Burkhardt, Stefan (*with* Kärkkäinen, Juha) One-gapped q-gram filters for Levenshtein distance. (English summary) (*see* **2005a:68009**)
Butman, Ayelet (*with* Eres, Revital; Landau, Gad M.) Scaled and permuted string matching. (English summary) **2005f:68159**
— *see also* **Amir, Amihood et al., 2005e:68249**; **(2005a:68010)** *and* **(2005b:68005)**
Chakaravarthy, Venkatesan T. (*with* Krishnamurthy, Rajaesekar) The problem of context sensitive string matching. (English summary) (*see* **2005a:68009**)
Chang, Maw-Shang *see* **Lee, Chuan-Min et al., 2005k:68217**
Che, Zhi-Zhong (*with* Gao, Yong; Lin, Guo-Hui; Niewiadomski, Robert; Wang, Yang[4]; Wu, Jun Feng[2]) A space-efficient algorithm for sequence alignment with inversions and reversals. (English summary) **2005d:68142**
Chen, Ting[1] *see* **He, Yong[1], 2005a:68227**
Choffrut, Christian (*with* Haddad, Yael) String-matching with OBDDs. (English summary) **2005a:68225**
Chrobak, Marek *see* **Benkoczi, Robert et al., (2005b:68020)**
Chung, Kai-min (*with* Lu, Hsueh-I.) An optimal algorithm for the maximum-density segment problem. (English summary) (*see* **2005c:68003**)
Cole, Richard (*with* Hariharan, Ramesh) Verifying candidate matches in sparse and wildcard matching. (English summary) (*see* **2005i:68004**)
— (*with* Gottlieb, Lee-Ad; Lewenstein, Moshe) Dictionary matching and indexing with errors and don't cares. (English summary) **2005j:68114**
— *see also* **Amir, Amihood et al., (2005b:68008)**
Crochemore, Maxime (*with* Iliopoulos, Costas S.; Lecroq, Thierry; Plandowski, Wojciech; Rytter, Wojciech) Three heuristics for δ-matching: δ-BM algorithms. (English summary) (*see* **2005a:68009**)
— (*with* Lecroq, Thierry; Plandowski, Wojciech; Iliopoulos, Costas S.; Pinzon, Yoan J.; Rytter, Wojciech) Occurrence and substring heuristics for δ-matching. (English summary) **2005d:68143**
— (*with* Iliopoulos, Costas S.; Pinzon, Yoan J.) Speeding-up Hirschberg and Hunt-Szymanski LCS algorithms. (English summary) **2005e:68251**
— (*with* Melichar, Bořivoj; Troníček, Zdeněk) Directed acyclic subsequence graph—overview. (English summary) **2005f:68160**
— (*with* Iliopoulos, Costas S.; Mohamed, Manal; Sagot, Marie-France) Longest repeats with a block of don't cares. (English summary) **2005f:68161**
— *see also* **Pisanti, Nadia et al., 2005c:68284**; **Amir, Amihood et al., 2005e:68249** *and* **(2005a:68010)**
Dal Palú, A. (*with* Pontelli, Enrico; Ranjan, Desh) An optimal algorithm for finding NCA on pure pointer machines. (English summary) (*see* **2005a:68002**)
De Bonis, Annalisa (*with* Gąsieniec, Leszek; Vaccaro, Ugo) Generalized framework for selectors with applications in optimal group testing. (English summary) (*see* **2005b:68008**)
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— (*with* Mohamed, Manal; Mouchard, Laurent; Smyth, William F.; Perdikuri, Katerina G.; Tsakalidis, Athanasios K.) String regularities with don't cares. (English summary) **2005a:68168**
Inenaga, Shunsuke (*with* Takeda, Masayuki; Shinohara, Ayumi; Hoshino, Hiromasa; Arikawa, Setsuo) The minimum DAWG for all suffixes of a string and its applications. (English summary) (*see* **2005a:68009**)
— *see also* **Bannai, Hideo et al.**, **2005c:68033** *and* **Miyamoto, Satoru et al.**, **2005f:68073**
Italiano, Giuseppe F. *see* **Demetrescu, Camil**, (**2005a:68008**)
Jiang, Jiandong *see* **Franěk, František et al.**, (**2005a:68009**)
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Jungnickel, Dieter ★ Graphs, networks and algorithms. **2005g:05002**
Kaplan, Haim *see* **Alstrup, Stephen et al.**, **2005b:05064**
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Khachatryan, V. E. *see* **Podlovchenko, R. I.**, **2005d:68080**
Kloks, Ton (*with* Kratochvíl, Jan; Müller, Haiko) Computing the branchwidth of interval graphs. (English summary) **2005i:05185**
Kolpakov, R. M. (*with* Kucherov, G. A.) Finding approximate repetitions under Hamming distance. (English summary) **2005m:68177**
— *see also* **Duval, Jean-Pierre et al.**, **2005f:68117**
Kosachev, A. S. *see* **Burdonov, I. B. et al.**, **2005g:68129**
Kratochvíl, Jan *see* **Kloks, Ton et al.**, **2005i:05185**
Kratsch, Dieter (*with* Müller, Haiko; Todinca, Ioan) Feedback vertex set and longest induced path on AT-free graphs. (English summary) **2005g:05142**
Kristiansen, Petter *see* **Fiala, Jiřiet al.**, **2005f:05057**
Kucherov, G. A. *see* **Duval, Jean-Pierre et al.**, **2005f:68117** *and* **Kolpakov, R. M.**, **2005m:68177**
Kulyamin, V. V. *see* **Burdonov, I. B. et al.**, **2005g:68129**
Kutlu, Ayferi *see* **Goldin, Dina Q. et al.**, **2005g:68025**
Ladner, Richard E. *see* **Bar-Noy, Amotz**, **2005c:68014**
Lam, Tak-Wah (*with* Sadakane, Kunihiko; Sung, Wing-Kin; Yiu, Siu-Ming) A space and time efficient algorithm for constructing compressed suffix arrays. (English summary) (*see* **2005a:68012**)
— (*with* Lu, N.; Ting, Hing-Fung; Wong, Prudence W. H.; Yiu, Siu-Ming) Efficient algorithms for optimizing whole genome alignment with noise. (English summary) **2005d:92014**
— *see also* **Hon, Wing-Kai et al.**, (**2005c:68004**)
Lecroq, Thierry *see* **Duval, Jean-Pierre et al.**, **2005f:68117**
Lefebvre, Arnaud *see* **Duval, Jean-Pierre et al.**, **2005f:68117**
Li, Guo Jun[1] *see* **Deng, Xiao Tie et al.**, (**2005a:68008**)
Li, Jian Ping[3] *see* **Xu, Ying[3] et al.**, **2005m:92029**
Li, Ming[1] (*with* Ma, Bin; Wang, Lu Sheng) On the closest string and substring problems. (English summary) **2005m:68256**
Li, Xiang-Yang (*with* Wang, Yu[3]) Efficient construction of low weighted bounded degree planar spanner. (English summary) **2005f:68115**
Li, Zi Mao *see* **Deng, Xiao Tie et al.**, (**2005a:68008**)
Lin, Guo-Hui (*with* Chen, Zhi-Zhong; Jiang, Tao[1]; Wen, Jianjun) The longest common subsequence problem for sequences with nested arc annotations (extended abstract). (English summary) (*see* **2005a:68007**)
Lin, Yaw-Ling (*with* Hsu, Tsan-Sheng) Efficient algorithms for descendent subtrees comparison of phylogenetic trees with applications to co-evolutionary classifications in bacterial genome. (English summary) **2005d:92013**
López-Ortiz, Alejandro *see* **Albert, Michael H. et al.**, **2005c:68032**
Lu, N. *see* **Lam, Tak-Wah et al.**, **2005d:92014**
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Lubiw, Anna *see* **Dror, Moshe et al.**, **2005k:68087**
Lyngsø, Rune B. *see* **Brodal, Gerth Stølting et al.**, (**2005a:68008**)
Ma, Bin *see* **Li, Ming[1] et al.**, **2005m:68256** *and* **Deng, Xiao Tie et al.**, (**2005a:68008**)
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Makris, Christos *see* **Iliopoulos, Costas S. et al.**, (**2005a:68009**)
Manlove, David F. *see* **Middendorf, Martin**, **2005f:68121**
Manzini, Giovanni (*with* Ferragina, Paolo) Engineering a lightweight suffix array construction algorithm. (English summary) **2005b:68071**
Mauri, Giancarlo (*with* Pavesi, Giulio) Pattern discovery in RNA secondary structure using affix trees. (English summary) (*see* **2005a:68010**)
Meyer, Ulrich[2] *see* **Arge, Lars et al.**, **2005h:68113**
Middendorf, Martin (*with* Manlove, David F.) Combined super-/substring and super-/subsequence problems. (English summary) **2005f:68121**
Millstein, Todd D. *see* **Goldin, Dina Q. et al.**, **2005g:68025**
Mitchell, Joseph S. B. *see* **Dror, Moshe et al.**, **2005k:68087**
Miyamoto, Satoru (*with* Inenaga, Shunsuke; Takeda, Masayuki; Shinohara, Ayumi) Ternary directed acyclic word graphs. (English summary) **2005f:68073**
Mohamed, Manal *see* **Iliopoulos, Costas S. et al.**, **2005a:68168**
Moret, Bernard M. E. *see* **Tang, Jijun**, (**2005b:68005**)
Mouchard, Laurent *see* **Iliopoulos, Costas S. et al.**, **2005a:68168**
Moukrim, Aziz *see* **Clautiaux, François et al.**, **2005e:68184**
Müller, Haiko *see* **Kratsch, Dieter et al.**, **2005g:05142** *and* **Kloks, Ton et al.**, **2005i:05185**
Muthukrishnan, S. Muthu (*with* Şahinalp, Süleyman Cenk) An efficient algorithm for sequence comparison with block reversals. (English summary) **2005b:68221**
Navarro, Gonzalo Approximate regular expression searching with arbitrary integer weights. (English summary) (*see* **2005c:68004**)
— Approximate regular expression searching with arbitrary integer weights. (English summary) **2005i:68043**
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Pedersen, Christian N. S. *see* **Brodal, Gerth Stølting et al.**, (**2005a:68008**)
Peng, Z. S. (*with* Ting, Hing-Fung) Time and space efficient algorithms for constrained sequence alignment. (English summary) (*see* **2005m:68009**)
Perdikuri, Katerina G. *see* **Iliopoulos, Costas S. et al.**, **2005a:68168**
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Pevzner, Pavel A. *see* **Alekseyev, Max A.**, **2005m:92020**
Podlovchenko, R. I. (*with* Khachatryan, V. E.) An approach to solving the equivalence problem. (Russian. Russian summary) **2005d:68080**
Raffinot, Mathieu *see* **Béal, Marie-Pierre et al.**, **2005f:92015**
Rao, Satti Srinivasa *see* **Albert, Michael H. et al.**, **2005c:68032**
Rastegari, Baharak *see* **Condon, Anne et al.**, **2005a:92016**
Rauhe, Theis *see* **Alstrup, Stephen et al.**, **2005b:05064**
Rautio, Jussi (*with* Tanninen, Jani; Tarhio, Jorma) String matching with stopper encoding and code splitting. (English summary) (*see* **2005a:68009**)
Rytter, Wojciech *see* **Crochemore, Maxime**, **2005b:68001**
Sadakane, Kunihiko *see* **Lam, Tak-Wah et al.**, (**2005a:68012**); **Hon, Wing-Kai et al.**, (**2005a:68009**) *and* (**2005c:68004**)
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Schnitger, Georg *see* **Weinard, Maik**, **2005e:68278**
Serna, Maria José *see* **Díaz, Josep et al.**, **2005b:05086**
Shen, Shi Yi A note on the distance matrix of multiple sequence alignment. (Chinese. English and Chinese summaries) **2005h:92019**
Shinohara, Ayumi *see* **Bannai, Hideo et al.**, **2005c:68033**; **Baba, Kensuke et al.**, **2005c:68230**; **Miyamoto, Satoru et al.**, **2005f:68073** *and* **Inenaga, Shunsuke et al.**, (**2005a:68009**)
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Sun, Fangting (*with* Fernández-Baca, David; Yu, Wei) Inverse parametric sequence alignment. (English summary) (*see* **2005a:68012**)
— (*with* Fernández-Baca, David; Yu, Wei) Inverse parametric sequence alignment. (English summary) **2005c:92021**
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Tamaki, Hisao *see* **Asano, Tetsuo et al.**, **2005h:05142**
Tang, Jijun (*with* Moret, Bernard M. E.) Phylogenetic reconstruction from gene-rearrangement data with unequal gene content. (English summary) (*see* **2005b:68005**)
Tanninen, Jani *see* **Rautio, Jussi et al.**, (**2005a:68009**)
Tarhio, Jorma *see* **Fredriksson, Kimmo**, **2005f:68027** *and* **Rautio, Jussi et al.**, (**2005a:68009**)
Tarrant, Finbarr *see* **Condon, Anne et al.**, **2005a:92016**
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Thilikos, Dimitris M. *see* **Díaz, Josep et al.**, **2005b:05086**
Thorup, Mikkel Fully-dynamic min-cut. (English summary) (*see* **2005j:68008**)
Ting, Hing-Fung *see* **Lam, Tak-Wah et al.**, **2005d:92014** *and* **Peng, Z. S.**, (**2005m:68009**)
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Tokuyama, Takeshi *see* **Asano, Tetsuo et al.**, **2005h:05142**
Toma, Laura *see* **Arge, Lars et al.**, **2005h:68113**
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Tsakalidis, Athanasios K. *see* **Iliopoulos, Costas S. et al.**, **2005a:68168** *and* (**2005a:68009**)
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Tsuruta, Satoshi *see* **Baba, Kensuke et al.**, **2005c:68230**
Vialette, Stéphane Pattern matching problems over 2-interval sets. (English summary) (*see* **2005a:68009**)
Wang, Li-San (*with* Warnow, Tandy) Estimating true evolutionary distances between genomes. (English summary) (*see* **2005j:68008**)
Wang, Lu Sheng *see* **Li, Ming[1] et al.**, **2005m:68256**; **Xu, Ying[3] et al.**, **2005m:92029** *and* **Deng, Xiao Tie et al.**, (**2005a:68008**)
Wang, Yu[3] *see* **Li, Xiang-Yang**, **2005f:68115**
Warnow, Tandy *see* **Ganapathy, Ganeshkumar**, (**2005d:68005**) *and* **Wang, Li-San**, (**2005j:68008**)
Weinard, Maik (*with* Schnitger, Georg) On the greedy superstring conjecture. (English summary) **2005e:68278**
Wen, Jianjun *see* **Lin, Guo-Hui et al.**, (**2005a:68007**)
Wilson, Nadine *see* **Hoffman, D. G. et al.**, **2005m:94020**
Wong, Prudence W. H. *see* **Lam, Tak-Wah et al.**, **2005d:92014**
Wu, Bang Ye Constructing evolutionary trees from rooted triples. (English summary) **2005a:92033**
Wu, Xiaodong[1] *see* **Chen, Danny Z.**, **2005b:68210**
Xiao, Xiangdong *see* **Franěk, František et al.**, **2005a:68052**
Xu, Ying[3] (*with* Wang, Lu Sheng; Zhao, Hao; Li, Jian Ping[3]) Exact matching of RNA secondary structure patterns. (English summary) **2005m:92029**
Yamamoto, Hiroaki A new translation from semi-extended regular expressions into NFAs and its application to an approximate matching problem. (English summary) (*see* **2005c:68004**)
Yang, I-Hsuan (*with* Huang, Chien-Pin; Chao, Kun-Mao) A fast algorithm for computing a longest common increasing subsequence. (English summary) **2005i:68098**
Yiu, Siu-Ming *see* **Lam, Tak-Wah et al.**, **2005d:92014** *and* (**2005a:68012**)
Yu, Sheng *see* **Ilie, Lucian**, **2005a:68121**
Yu, Wei *see* **Sun, Fangting et al.**, **2005c:92021** *and* (**2005a:68012**)
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Zeh, Norbert *see* **Arge, Lars et al.**, **2005h:68113**
Zhao, Hao *see* **Xu, Ying[3] et al.**, **2005m:92029**
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Items listed otherwise than by author

Combinatorial pattern matching ★ Combinatorial pattern matching. **2005a:68009**
Fukuoka ★ Combinatorial pattern matching. **2005a:68009**
Lecture Notes in Computer Science ★ Combinatorial pattern matching. **2005a:68009**
Pattern recognition and string matching ★ Pattern recognition and string matching. **2005b:68003**

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Abu-Ghazaleh, Nayef *see* **El-Qawasmeh, Eyas et al.**
de Agostino, Sergio Almost work-optimal PRAM EREW decoders of LZ compressed text. (English summary) **2005h:68173**
Al-Ayyoub, Abdel-Elah *see* **El-Qawasmeh, Eyas et al.**
Bakhanovich, S. V. (*with* Likhoded, N. A.) Mapping of algorithms onto parallel architectures of given dimension and given size. (Russian. English and Russian summaries) **2005a:68228**
Berman, Piotr (*with* Karpinski, Marek; Nekrich, Yakov) Approximating Huffman codes in parallel. (English summary) (*see* **2005a:68008**)
Bertsch, Eberhard L. (*with* Nederhof, Mark-Jan) Fast parallel recognition of LR language suffixes. (English summary) **2005g:68185**
Borisov, E. S. A semi-automatic system for the decomposition of sequential programs for parallel computers with distributed memory. (Russian. English and Ukrainian summaries)
Chao, Hsiao-Shu *see* **Hsu, F. R. et al.**, **2005m:68242**
Chiorean, Ioana Remarks on some parallel algorithms for prefix computation. (English summary) **2005k:68219**
Cole, Richard (*with* Galil, Zvi; Hariharan, Ramesh; Muthukrishnan, S. Muthu; Park, Kunsoo) Parallel two dimensional witness computation. (English summary) **2005a:68229**
Datta, Alak Kumar (*with* Sen, Ranjan Kumar) $o(\log^4 n)$ time parallel maximal matching algorithm using linear number of processors. (English summary) **2005k:68220**
El-Qawasmeh, Eyas (*with* Al-Ayyoub, Abdel-Elah; Abu-Ghazaleh, Nayef) Quick matrix multiplication on clusters of workstations. (English and Lithuanian summaries)
Fredrickson, Judith R. *see* **Yuan, Bei et al.**
Galil, Zvi *see* **Cole, Richard et al.**, **2005a:68229**
Garcia, Thierry (*with* Semé, David) A coarse-grained multicomputer algorithm for the detection of repetitions. (English summary)
Gibbs, W. R. A parallel/recursive algorithm. (English summary) **2005f:68163**
Gustedt, Jens (*with* Telle, Jan Arne) A work-optimal coarse-grained PRAM algorithm for lexicographically first maximal independent set. (English summary) (*see* **2005b:68027**)
Hariharan, Ramesh *see* **Cole, Richard et al.**, **2005a:68229**
Harris, Frederick C., Jr. *see* **Yuan, Bei et al.**
Hsu, F. R. (*with* Shan, M. K.; Chao, Hsiao-Shu; Lee, Richard Char Tung) Some optimal parallel algorithms on interval and circular-arc graphs. (English summary) **2005m:68242**
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Ito, Hideaki *see* **Kajiyama, Tamito et al.**
Jiang, Sheng-Yi *see* **Li, Qing Hua et al.**
Kajiyama, Tamito (*with* Ito, Hideaki; Iida, Saburou) Implementations of tree-structured parallel algorithms on a parallel computer based on ring architecture. (Japanese. English and Japanese summaries)
Karpinski, Marek *see* **Berman, Piotr et al.**, (**2005a:68008**)
Kashem, Md. Abul (*with* Rahman, M. Ziaur) An optimal parallel algorithm for c-vertex-ranking of trees. (English summary) **2005d:68145**
Kittitornkun, Surin (*with* Hu, Yu Hen) Efficient implementation of nested-loop multimedia algorithms. (English summary)
Kriemann, R. Parallel $\mathscr{H}$-matrix arithmetics on shared memory systems. (English summary)
Lee, Richard Char Tung *see* **Hsu, F. R. et al.**, **2005m:68242**
Li, Ken-Li (*with* Li, Ren-Fa; Li, Qing Hua) Optimal parallel algorithm for the knapsack problem without memory conflicts. (English summary) **2005g:68186**
Li, Keqin Scheduling DAGs with random parallel tasks on binarily partitionable systems. (English summary)
Li, Qing Hua (*with* Ruan, You-Lin; Liu, Gan; Jiang, Sheng-Yi; Yang, Shi-Da) An optimal scheduling algorithm for fork-join task graphs. (English and Chinese summaries)
— *see also* **Li, Ken-Li et al.**, **2005g:68186**
Li, Ren-Fa *see* **Li, Ken-Li et al.**, **2005g:68186**
Likhoded, N. A. Mapping of affine loop nests onto independent processors. (Russian. English and Ukrainian summaries)
— *see also* **Bakhanovich, S. V.**, **2005a:68228**
Liu, Gan *see* **Li, Qing Hua et al.**
Mahajan, Meena (*with* Varadarajan, Kasturi R.) A new NC-algorithm for finding a perfect matching in bipartite planar and small genus graphs (extended abstract). (*see* **2005i:68003**)
Martin, Sean C. *see* **Yuan, Bei et al.**
Matsumae, Susumu Simulation of meshes with separable buses by meshes with multiple partitioned buses. (English summary) **2005a:68230**
Migita, Masahiro *see* **Tada, Akio et al.**, **2005a:68231**
Milovanović, E. I. *see* **Stojanović, N. M. et al.**, **2005g:68187**
Milovanović, I. Ž. *see* **Stojanović, N. M. et al.**, **2005g:68187**
Müller-Olm, Markus (*with* Seidl, Helmut) On optimal slicing of parallel programs. (English summary) (*see* **2005j:68008**)
Muthukrishnan, S. Muthu *see* **Cole, Richard et al.**, **2005a:68229**
Nakamura, Ryozo *see* **Tada, Akio et al.**, **2005a:68231**
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Rahman, M. Ziaur *see* **Kashem, Md. Abul**, **2005d:68145**
Randjelović, Dragan M. Object functions 1D systolic arrays. (English summary)
Ruan, You-Lin *see* **Li, Qing Hua et al.**
Saxena, Sanjeev *see* **Yugandhar, V.**, **2005h:68174**
Seidl, Helmut *see* **Müller-Olm, Markus**, (**2005j:68008**)
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Sen, Ranjan Kumar *see* **Datta, Alak Kumar**, **2005k:68220**
Shan, M. K. *see* **Hsu, F. R. et al.**, **2005m:68242**
Stojanović, N. M. (*with* Milovanović, E. I.; Stojmenović, I.; Milovanović, I. Ž.; Tokić, T. I.) Mapping matrix multiplication algorithm onto fault-tolerant systolic array. (English summary) **2005g:68187**
Stojmenović, I. *see* **Stojanović, N. M. et al.**, **2005g:68187**
Tada, Akio (*with* Migita, Masahiro; Nakamura, Ryozo) Parallel topological sorting algorithm. (Japanese. English and Japanese summaries) **2005a:68231**
Telle, Jan Arne *see* **Gustedt, Jens**, (**2005b:68027**)
Tiskin, Alexandre All-pairs shortest paths computation in the BSP model. (English summary) (*see* **2005a:68007**)
Tiunchik, A. A. Matching graph models of systolic-type algorithms on the basis of a matrix representation of data structures. (Russian. English and Russian summaries)
Tokić, T. I. *see* **Stojanović, N. M. et al.**, **2005g:68187**
Varadarajan, Kasturi R. *see* **Mahajan, Meena**, (**2005i:68003**)
Walther, Andrea Bounding the number of processors and checkpoints needed in time-minimal parallel reversal schedules. (English summary) **2005g:68188**
Yang, Shi-Da *see* **Li, Qing Hua et al.**
Yuan, Bei (*with* Martin, Sean C.; Fredrickson, Judith R.; Harris, Frederick C., Jr.) A generic queuing system for computationally intensive problems. (English summary)
Yugandhar, V. (*with* Saxena, Sanjeev) Parallel algorithms for separable permutations. (English summary) **2005h:68174**

Items with secondary classifications in 68W10

Akl, Selim G. (*with* Cordy, Brendan J.; Yao, Weiguang) An analysis of the effect of parallelism in the control of dynamical systems. (English summary) **2005m:37215**

Albers, Susanne On randomized online scheduling. (English summary) (*see* **2005i:68004**)
Armspach, J.-P. *see* **Salomon, M. et al.**
Bagheri, Babak *see* **Scott, Larkin Ridgway et al., 2005k:65301**
Belegundu, Ashok D. (*with* Damle, Amol; Rajan, Subramaniam Dharma; Dattaguru, Bhagavatula; Ville, James St.) Parallel line search in method of feasible directions. (English summary)
Beletskyy, Volodymyr Finding coarse grained parallelism in computational geometry algorithms. (English summary) (*see* **2005i:00014**)
Benson, Maurice W. *see* **Hu, Jie, (2005m:00008)**
Chang, Donghoon *see* **Lee, Wonil et al., 2005h:94052**
Chang, Weng-Long *see* **Guo, Minyi et al.**
Cheremisinova, L. D. Coding the states of an asynchronous parallel automaton. (Russian. Russian summary)
Chong, Ka Wong (*with* Nikolopoulos, Stavros D.; Palios, Leonidas) An optimal parallel co-connectivity algorithm. (English summary) **2005g:05082**
Clark, Terry *see* **Scott, Larkin Ridgway et al., 2005k:65301**
Cordy, Brendan J. *see* **Akl, Selim G. et al., 2005m:37215**
Craitoiu, Teodor Gabriel Parallel computation, co-operation, tabu search. (English summary) (*see* **2005h:90007**)
Dai, Yi-Qi *see* **Luo, Ping[1], 2005b:94037**
Damle, Amol *see* **Belegundu, Ashok D. et al.**
Dattaguru, Bhagavatula *see* **Belegundu, Ashok D. et al.**
Davila, Jaime (*with* Rajasekaran, Sanguthevar) Randomized sorting on the POPS network. (English summary) **2005k:68038**
(Dongarra, Jack J.) *see* **Parallel processing and applied mathematics, 2005d:68011**
Doroshenko, A. E. (*with* Tseĭtlin, G. E.) Models and parallel programming abstractions to enhance concurrency of parallel programs. (English summary)
Dósa, György (*with* He, Yong[1]) Semi-online algorithms for parallel machine scheduling problems. (English summary) **2005c:90028**
El Baz, Didier (*with* Frommer, Andreas; Spiteri, Pierre) Asynchronous iterations with flexible communication: contracting operators. (English summary) **2005i:65232**
— *see also* **Spiteri, Pierre et al., 2005a:65151**
Elmroth, Erik (*with* Gustavson, Fred G.; Jonsson, Isak; Kågström, Bo) Recursive blocked algorithms and hybrid data structures for dense matrix library software. (English summary) **2005h:65005**
Ercan, M. Fikret *see* **Oğuz, Ceyda et al., (2005g:00014)**
Even, Guy (*with* Seidel, Peter-M.; Ferguson, Warren E.) A parametric error analysis of Goldschmidt's division algorithm. (English summary) **2005h:68187**
Ferguson, Warren E. *see* **Even, Guy et al., 2005h:68187**
Frommer, Andreas *see* **El Baz, Didier et al., 2005i:65232**
Fukuda, Komei (*with* Rosta, V.) Exact parallel algorithms for the location depth and the maximum feasible subsystem problems. (English summary) **2005e:90168**
Fung, Yu-Fai *see* **Oğuz, Ceyda et al., (2005g:00014)**
Gabow, Harold N. (*with* Skulrattanakulchai, San) Coloring algorithms on subcubic graphs. (English summary) (*see* **2005a:68012**)
— *see also* **Skulrattanakulchai, San, 2005a:05204**
Gao, Hong (*with* Li, Jian Zhong) Parallel data cube storage structure for range sum queries and dynamic updates. (English summary)
Garcia, Thierry (*with* Semé, David) A coarse-grained multicomputer algorithm for the longest repeated suffix ending at each point in a word. (English summary) (*see* **2005g:65009**)
Gehrke, Johannes E. *see* **Muthukrishnan, S. Muthu et al., 2005m:68269**
Gu, Shu Sheng *see* **Li, Hong Ru[2]**
Guo, Minyi (*with* Ho, Michael; Chang, Weng-Long) Fast parallel molecular solution to the dominating-set problem on massively parallel bio-computing. (English summary)
Gustavson, Fred G. *see* **Elmroth, Erik et al., 2005h:65005**
Haridas, Satchidanand G. (*with* Ziavras, Sotirios G.) FPGA implementation of a Cholesky algorithm for a shared-memory multiprocessor architecture. (English summary)
He, Xin[1] *see* **Huang, Chun-Hsi, 2005b:68135**
He, Yong[1] *see* **Dósa, György, 2005c:90028**
Heath, Lenwood S. (*with* Ribbens, C. J.; Pemmaraju, Sriram V.) Processor-efficient sparse matrix-vector multiplication. (English summary) **2005h:65077**
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Ho, Chin-wen *see* **Hsieh, Sun-Yuan et al., 2005a:68161**
Ho, Michael *see* **Guo, Minyi et al.**
Hsieh, Sun-Yuan (*with* Ho, Chin-wen; Hsu, Tsan-Sheng; Ko, Ming-tat) Efficient algorithms for the Hamiltonian problem on distance-hereditary graphs. (English summary) **2005a:68161**
— Efficiently parallelizable problems on a class of decomposable graphs. (English summary) **2005i:68064**
Hsu, Tsan-Sheng *see* **Hsieh, Sun-Yuan et al., 2005a:68161**
Hu, Jie (*with* Benson, Maurice W.) Asynchronous multiscale self-organizing maps. (*see* **2005m:00008**)
Huang, Chun-Hsi (*with* He, Xin[1]) Average-case communication-optimal parallel parenthesis matching. (English summary) **2005b:68135**
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Kågström, Bo *see* **Elmroth, Erik et al., 2005h:65005**
Kashem, Md. Abul (*with* Rahman, M. Ziaur) An optimal parallel algorithm for c-vertex-ranking of trees. (English summary) **2005e:05135**
Kaya, Doğan (*with* Wright, Ken) Parallel algorithms for LU decomposition on a shared memory multiprocessor. (English summary)
Kik, Marcin Periodic multisorting comparator networks. (English summary) **2005c:68040**
Ko, Ming-tat *see* **Hsieh, Sun-Yuan et al., 2005a:68161**
Kohout, Josef (*with* Kolingerová, Ivana; Žára, Jiří) Parallel Delaunay triangulation in E^2 and E^3 for computers with shared memory. (English summary)
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Kolingerová, Ivana *see* **Kohout, Josef et al.**
Kothari, Anshul (*with* Suri, Subhash; Zhou, Yunhong) Bandwidth-constrained allocation in grid computing. (English summary) (*see* **2005b:68005**)
Lee, Sangjin *see* **Lee, Wonil et al., 2005h:94052**
Lee, Wonil (*with* Chang, Donghoon; Lee, Sangjin; Sung, Soo Hak; Nandi, Mridul) New parallel domain extenders for UOWHF. (English summary) **2005h:94052**
Li, Hong Ru[2] (*with* Gu, Shu Sheng) A fast parallel algorithm for a recurrent neural network. (Chinese. English and Chinese summaries)
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Li, Pak-Ching (*with* Russell, Ryan) A parallel implementation of an algorithm for computing covering numbers. (English summary)
Liu, Guangwu *see* **Pan, Lin Qiang et al.**
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Luo, Ping[1] (*with* Dai, Yi-Qi) Fast modular multiplication and parallel algorithms in public-key cryptosystems. (English summary) **2005b:94037**
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— A tight analysis and near-optimal instances of the algorithm of Anderson and Woll. (English summary) **2005g:68208**
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Muthukrishnan, S. Muthu (*with* Rajaraman, Rajmohan; Shaheen, Anthony; Gehrke, Johannes E.) Online scheduling to minimize average stretch. (English summary) **2005m:68269**
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Oğuz, Ceyda (*with* Fung, Yu-Fai; Ercan, M. Fikret; Qi, Xiangtong) Parallel genetic algorithm for a flow-shop problem with multiprocessor tasks. (English summary) (*see* **2005g:00014**)
Oliveira, Carlos A. S. (*with* Pardalos, Panos M.) Randomized parallel algorithms for the multidimensional assignment problem. (English summary) **2005e:90101**
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Pal, Tapan K. *see* **Saha, Anita et al., 2005g:90158**
Palios, Leonidas *see* **Chong, Ka Wong et al., 2005g:05082**
Pan, Lin Qiang (*with* Liu, Guangwu; Xu, Jin[2]; Liu, Yachun) Solid phase based DNA solution of the coloring problem. (English summary)
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Qi, Xiangtong *see* **Oğuz, Ceyda et al., (2005g:00014)**
Qu, Huiqin (*with* Lu, Mingming; Zhu, Hong[1]) Solve the partitioning problem by sticker model in DNA computing. (English summary)
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Rajaraman, Rajmohan *see* **Muthukrishnan, S. Muthu et al., 2005m:68269**
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Reif, John H. Efficient parallel factorization and solution of structured and unstructured linear systems. (English summary) **2005m:65324**
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Saad, Rachid *see* **Rahoual, Malek**
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Salomon, M. (*with* Heitz, Fabrice; Perrin, G.-R.; Armspach, J.-P.) A massively parallel approach to deformable matching of 3D medical images via stochastic differential equations. (English summary)
Schlage-Puchta, Jan-Christoph On Shanks' algorithm for modular square roots. (English summary) **2005i:11178**
Schott, René (*with* Spehner, Jean-Claude) Two optimal parallel algorithms on the commutation class of a word. (English summary) **2005e:68133**
Scott, Larkin Ridgway (*with* Clark, Terry; Bagheri, Babak) ★ Scientific parallel computing. **2005k:65301**
Seidel, Peter-M. *see* **Even, Guy et al., 2005h:68187**
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Sen, Sandeep *see* **Rajasekaran, Sanguthevar, 2005i:68097**
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Sewisy, Adel A. Parallel coordinates: a tool for visualizing N-variable linear programming problems. (English summary)
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Spehner, Jean-Claude *see* **Schott, René**, **2005e:68133**
Spiteri, Pierre (*with* Miellou, Jean-Claude; El Baz, Didier) Parallel asynchronous Schwarz and multisplitting methods for a nonlinear diffusion problem. (English summary) **2005a:65151**
— *see also* **El Baz, Didier et al.**, **2005i:65232**
Stachowiak, Grzegorz Fast periodic correction networks. (English summary) **2005c:68041**
Strongin, Roman G. (*with* Sergeev, Yaroslav D.) Global optimization: fractal approach and non-redundant parallelism. (English summary) **2005b:90137**
Subramanya, P. R. *see* **Mahajan, Meena et al.**, **2005i:05148**
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Yao, Weiguang *see* **Akl, Selim G. et al.**, **2005m:37215**
Ye, Deshi (*with* Zhang, Guochuan) On-line scheduling of parallel jobs. (English summary)
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Zhang, Guochuan *see* **Ye, Deshi**
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Items listed otherwise than by author

Częstochowa ★ Parallel processing and applied mathematics. **2005d:68011**
Lecture Notes in Computer Science ★ Parallel processing and applied mathematics. **2005d:68011**
Parallel processing and applied mathematics ★ Parallel processing and applied mathematics. **2005d:68011**

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Aspnes, James (*with* Waarts, Orli) Compositional competitiveness for distributed algorithms. (English summary) **2005h:68175**
Bi, Jing Ping *see* **Wu, Qi**[2] **et al.**
Blin, Lélia (*with* Butelle, Franck) The first approximated distributed algorithm for the minimum degree spanning tree problem on general graphs. (English summary) **2005a:68232**
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Chandra, Tushar (*with* Hadzilacos, Vassos; Jayanti, Prasad; Toueg, Sam) Generalized irreducibility of consensus and the equivalence of t-resilient and wait-free implementations of consensus. (English summary) **2005k:68221**
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Cohen, Edith (*with* Kaplan, Haim) Balanced-replication algorithms for distribution trees. (English summary) **2005j:68117**
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Dobrev, Stefan (*with* Pelc, Andrzej) Leader election in rings with nonunique labels. (English summary) **2005d:68146**
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Gairing, Martin (*with* Geist, Robert M.; Hedetniemi, Stephen T.; Kristiansen, Petter) A self-stabilizing algorithm for maximal 2-packing. (English summary) **2005d:68147**
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Wu, Qi[2] (*with* Bi, Jing Ping; Wang, Kai; Huang, Jing; Li, Zhong Cheng) Completely distributed algorithm for measurement collaboration problem. (Chinese. English and Chinese summaries)

Items with secondary classifications in 68W15

Amestoy, Patrick R. (*with* Duff, Iain S.; Vömel, Christof) Task scheduling in an asynchronous distributed memory multifrontal solver. (English summary) **2005j:65045**
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Béjar, Ramón (*with* Domshlak, Carmel; Fernández, Cèsar; Gomes, Carla P.; Krishnamachari, Bhaskar; Selman, Bart; Valls, Magda) Sensor networks and distributed CSP: communication, computation and complexity. (English summary)
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Chen, Peter P. *see* **Seiden, Steven S. et al.**, **2005m:68019**
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— *see also* **Silaghi, Marius-Călin**
Fernández, Antonio[1] (*with* Georgiou, Chryssis; Russell, Alexander; Shvartsman, Alexander A.) The Do-All problem with Byzantine processor failures. (English summary) **2005j:68021**
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Godard, Emmanuel (*with* Métivier, Yves; Muscholl, Anca) Characterizations of classes of graphs recognizable by local computations. (English summary) **2005m:68113**
Goddard, Wayne (*with* Hedetniemi, Stephen T.; Jacobs, David P.; Srimani, Pradip K.) Self-stabilizing algorithms for orderings and colorings. (English summary) **2005k:68160**
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Seiden, Steven S. (*with* Chen, Peter P.; Lax, R. F.; Chen, Jianhua; Ding, Guoli) New bounds for randomized busing. (English summary) **2005m:68019**
Selman, Bart *see* **Béjar, Ramón et al.**
Shen, Wei-Min *see* **Modi, Pragnesh Jay et al.**
Shi, Zhengnan (*with* Goddard, Wayne; Hedetniemi, Stephen T.) An anonymous self-stabilizing algorithm for 1-maximal independent set in trees. (English summary) **2005a:68026**
Shvartsman, Alexander A. *see* **Fernández, Antonio[1] et al.**, 2005j:68021
Silaghi, Marius-Călin (*with* Faltings, Boi) Asynchronous aggregation and consistency in distributed constraint satisfaction. (English summary)
Silvestri, Riccardo *see* **Finocchi, Irene et al.**, 2005f:68113
Šparl, Petra (*with* Žerovnik, Janez) 2-local 4/3-competitive algorithm for multicoloring hexagonal graphs. (English summary) **2005k:68248**
Srimani, Pradip K. *see* **Goddard, Wayne et al.**, 2005k:68160
Ştefănescu, Alin (*with* Esparza, Javier; Muscholl, Anca) Synthesis of distributed algorithms using asynchronous automata. (English summary) **2005c:68180**
Talwar, Kunal The price of truth: frugality in truthful mechanisms. (English summary) **2005b:68206**
Tambe, Milind *see* **Modi, Pragnesh Jay et al.**
To, Kar-Keung *see* **Chan, Ho-Leung et al.**, 2005k:68085
Valls, Magda *see* **Béjar, Ramón et al.**
Vömel, Christof *see* **Amestoy, Patrick R. et al.**, 2005j:65045
Wallace, Richard J. (*with* Freuder, Eugene C.) Constraint-based reasoning and privacy/efficiency tradeoffs in multi-agent problem solving. (English summary)
Wang, Guandong *see* **Zhang, Weixiong et al.**
Wang, Shih-Chang (*with* Leu, Yuh-Rong; Kuo, Sy-Yen) Distributed fault-tolerant embedding of several topologies in hypercubes. (English summary) **2005b:68034**
Wittenburg, Lars *see* **Zhang, Weixiong et al.**
Wu, Yong Wei (*with* Yang, Guang Wen; Yang, Hong; Zheng, Wei Min; Lin, Dong Dai) A distributed computing model for Wu's method. (Chinese. English and Chinese summaries)
Xing, Zhao *see* **Zhang, Weixiong et al.**
Yang, Guang Wen *see* **Wu, Yong Wei et al.**
Yang, Hong *see* **Wu, Yong Wei et al.**
Yokoo, Makoto *see* **Faltings, Boi**; **Hirayama, Katsutoshi** *and* **Modi, Pragnesh Jay et al.**
Zemmari, Akka *see* **Duchon, Philippe et al.**, 2005e:68007
Žerovnik, Janez *see* **Šparl, Petra**, 2005k:68248
Zhang, Weixiong (*with* Wang, Guandong; Xing, Zhao; Wittenburg, Lars) Distributed stochastic search and distributed breakout: properties, comparison and applications to constraint optimization problems in sensor networks. (English summary)
Zhao, Ben Y. *see* **Hildrum, Kris et al.**, 2005a:68022
Zheng, Wei Min *see* **Wu, Yong Wei et al.**

Items listed otherwise than by author

Distributed computing ★ Distributed computing. **2005a:68013**
Lecture Notes in Computer Science ★ Distributed computing. **2005a:68013**
Sorrento ★ Distributed computing. **2005a:68013**

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Ajtai, Miklós (*with* Kumar, S. Ravi; Sivakumar, Dandapani) A sieve algorithm for the shortest lattice vector problem. (English summary) **2005k:68224**
Alon, Noga (*with* Kaufman, Tali; Krivelevich, Michael; Litsyn, Simon; Ron, Dana) Testing low-degree polynomials over GF(2). (English summary) **2005c:68285**
Angelopoulos, Spyros Randomized priority algorithms (extended abstract). (English summary) (*see* **2005c:68005**)
Arikawa, Setsuo *see* **Baba, Kensuke et al.**, 2005b:68283
Arvind, V. (*with* Raman, Venkatesh) Approximation algorithms for some parameterized counting problems. (English summary) (*see* **2005b:68004**)
Aspnes, James (*with* Shah, Gauri; Shah, Jatin) Wait-free consensus with infinite arrivals. (English summary) (*see* **2005i:68004**)
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Björklund, Henrik (*with* Sandberg, Sven; Vorob′ev, S. G.) A discrete subexponential algorithm for parity games. (English summary) **2005c:68286**
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— (*with* Oliveira, Roberto Imbuzeiro) On extracting private randomness over a public channel. (English summary) (*see* **2005b:68007**)
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Goldreich, Oded Pseudorandomness. I.
Gopalakrishnan, K. Derandomization via matroidal sample spaces. (English summary) **2005i:68089**
Gopalan, Parikshit (*with* Lipton, Richard J.; Mehta, Aranyak) Randomized time-space tradeoffs for directed graph connectivity. (English summary) **2005e:68254**
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Impagliazzo, Russell (*with* Shaltiel, Ronen; Wigderson, Avi) Extractors and pseudo-random generators with optimal seed length. (*see* **2005i:68003**)
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Karlin, Anna R. (*with* Kenyon, Claire; Randall, Dana) Dynamic TCP acknowledgement and other stories about $e/(e-1)$. (English summary) (*see* **2005j:68008**)
Karp, Richard M. (*with* Kenyon, Claire) A gambling game arising in the analysis of adaptive randomized rounding. (English summary) **2005c:68288**
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Kenyon, Claire *see* **Karp, Richard M.**, 2005c:68288 *and* **Karlin, Anna R. et al.**, (2005j:68008)
Kijima, Shuji (*with* Matsui, Tomomi) Polynomial time perfect sampling algorithm for two-rowed contingency tables. (English summary) **2005g:68191**
Klivans, Adam R. (*with* Spielman, Daniel A.) Randomness efficient identity testing of multivariate polynomials. (English summary) (*see* **2005j:68008**)
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Lu, Chi-Jen (*with* Reingold, Omer; Vadhan, Salil P.; Wigderson, Avi) Extractors: optimal up to constant factors. (English summary) **2005k:68227**
Mahmoud, Hosam M. Erratum: "The size of random bucket trees via urn models" [Acta Inform. **38** (2002), no. 11-12, 813–838; MR1943199 (2003h:68153)]. 2005f:68164
Matsui, Tomomi *see* **Kijima, Shuji**, 2005g:68191
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Mehta, Aranyak *see* **Gopalan, Parikshit et al.**, 2005e:68254
Mendel, Manor *see* **Fiat, Amos**, 2005k:68225 *and* **Bartal, Yair**, 2005m:68245
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Seiden, Steven S. A guessing game and randomized online algorithms. (*see* **2005i:68003**)
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Shah, Jatin *see* **Aspnes, James et al., (2005i:68004**)
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Takeda, Masayuki *see* **Baba, Kensuke et al., 2005b:68283**
Ta-Shma, Amnon (*with* Umans, Christopher; Zuckerman, David) Loss-less condensers, unbalanced expanders, and extractors. (English summary) (*see* **2005j:68008**)
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— *see also* **Chazelle, Bernard et al., (2005a:68007**)
Umans, Christopher Pseudo-random generators for all hardnesses. (English summary) (*see* **2005i:68004**)
— *see also* **Ta-Shma, Amnon et al., (2005j:68008**)
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Zuckerman, David *see* **Ta-Shma, Amnon et al., (2005j:68008**)

Items with secondary classifications in 68W20

Ahn, Hee-Kap (*with* Cheong, Otfried; van Oostrum, René) Casting a polyhedron with directional uncertainty. (English summary) (*see* **2005b:68004**)
Ajtai, Miklós (*with* Jayram, T. S.; Kumar, S. Ravi; Sivakumar, Dandapani) Approximate counting of inversions in a data stream. (English summary) (*see* **2005i:68004**)
— The invasiveness of off-line memory checking. (English summary) (*see* **2005i:68004**)
Albers, Susanne (*with* Schmidt, Markus) On the performance of greedy algorithms in packet buffering. (English summary) **2005j:68138**
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Alon, Noga (*with* Shapira, Asaf) Testing subgraphs in directed graphs. (English summary) **2005j:68050**
— (*with* Shapira, Asaf) Testing subgraphs in directed graphs. (English summary) **2005e:68083**
— (*with* Beigel, Richard; Kasif, Simon; Rudich, Steven; Sudakov, Benny) Learning a hidden matching. (English summary) **2005e:68110**
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Aravena, Jorge L. *see* **Chen, Xinjia et al., 2005c:93066**
Archer, Aaron (*with* Papadimitriou, Christos H.; Talwar, Kunal; Tardos, Éva) An approximate truthful mechanism for combinatorial auctions with single parameter agents. (English summary) **2005b:91089**
(Arora, Sanjeev) *see* **Approximation, randomization, and combinatorial optimization, 2005b:68007**
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Bach, Eric (*with* Boyar, Joan; Epstein, Leah; Favrholdt, Lene M.; Jiang, Tao[1]; Larsen, Kim S.; Lin, Guo-Hui; van Stee, Rob) Tight bounds on the competitive ratio on accommodating sequences for the seat reservation problem. (English summary) **2005f:68051**
Bachmat, E. Average case analysis for batched disk scheduling and increasing subsequences. (English summary) (*see* **2005i:68004**)
Bartal, Yair (*with* Chin, Francis Y. L.; Chrobak, Marek; Fung, Stanley P. Y.; Jawor, Wojciech; Lavi, Ron; Sgall, Jiří; Tichý, Tomáš) Online competitive algorithms for maximizing weighted throughput of unit jobs. (English summary) **2005e:90034**
Baswana, Surender (*with* Hariharan, Ramesh; Sen, Sandeep) Improved decremental algorithms for maintaining transitive closure and all-pairs shortest paths. (English summary) (*see* **2005i:68004**)
Becchetti, Luca (*with* Leonardi, Stefano) Non-clairvoyant scheduling to minimize the average flow time on single and parallel machines. (English summary) (*see* **2005j:68008**)
Beigel, Richard *see* **Alon, Noga et al., 2005e:68110**
Berenbrink, Petra (*with* Czumaj, Artur; Steger, Angelika; Vöcking, Berthold) Balanced allocations: the heavily loaded case. (*see* **2005i:68003**)
Berezney, Ronald *see* **Xu, Jinhui et al., 2005b:90111**
Bobkov, Sergei G. (*with* Tetali, Prasad) Modified log-Sobolev inequalities, mixing and hypercontractivity. (English summary) **2005k:60027**
Bollig, Beate A large lower bound on the query complexity of a simple Boolean function. (English summary) **2005m:68084**
Bollobás, Béla (*with* Scott, Alexander D.) Max Cut for random graphs with a planted partition. (English summary) **2005j:68082**
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Boyar, Joan *see* **Bach, Eric et al., 2005f:68051**
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— (*with* Fortnow, Lance; Pavan, A.) Some results on derandomization. (English summary) **2005k:68059**
Capalbo, Michael (*with* Reingold, Omer; Vadhan, Salil P.; Wigderson, Avi) Randomness conductors and constant-degree lossless expanders. (English summary) (*see* **2005i:68004**)
Caragiannis, Ioannis (*with* Kaklamanis, Christos; Persiano, Giuseppe; Sidiropoulos, Anastasios) Fractional and integral coloring of locally-symmetric sets of paths on binary trees. (English summary) (*see* **2005c:68005**)
— (*with* Ferreira, Afonso; Kaklamanis, Christos; Pérennès, Stéphane; Persiano, Giuseppe; Rivano, Hervé) Approximate constrained bipartite edge coloring. (English summary) **2005k:05088**
Chakrabarti, Amit (*with* Khot, Subhash) Improved lower bounds on the randomized complexity of graph properties. (English summary) (*see* **2005a:68007**)
Charikar, Moses S. (*with* O'Callaghan, Liadan Ita; Panigrahy, Rina) Better streaming algorithms for clustering problems. (English summary) **2005k:68086**
— (*with* Kleinberg, Jon; Kumar, S. Ravi; Rajagopalan, Sridhar; Sahai, Amit; Tomkins, Andrew) Minimizing wirelength in zero and bounded skew clock trees. (English summary) **2005d:68156**
Chen, Xinjia (*with* Zhou, Kemin; Aravena, Jorge L.) Fast construction of robustness degradation function. (English summary) **2005c:93066**
Chen, Zhi-Zhong (*with* Okamoto, Yuusuke; Wang, Lu Sheng) Improved deterministic approximation algorithms for Max TSP. (English summary) **2005m:68252**
Cheong, Otfried *see* **Ahn, Hee-Kap et al., (2005b:68004**)
Chin, Francis Y. L. *see* **Bartal, Yair et al., 2005e:90034**
Chockler, Hana (*with* Gutfreund, Dan) A lower bound for testing juntas. (English summary) **2005a:68093**
Chrobak, Marek (*with* Sgall, Jiří) Analysis of the Harmonic algorithm for three servers. (English summary) **2005f:68178a**
— *see also* **Bartal, Yair et al., 2005e:90034**
Cohen, Edith (*with* Kaplan, Haim) Balanced-replication algorithms for distribution trees. (English summary) **2005j:68117**
Cooper, Colin (*with* Frieze, Alan) Crawling on simple models of web graphs. (English summary) **2005e:05123**
Cryan, Mary (*with* Dyer, Martin) A polynomial-time algorithm to approximately count contingency tables when the number of rows is constant. (English summary) (*see* **2005i:68004**)
Czumaj, Artur (*with* Scheideler, Christian) A new algorithm approach to the general Lovász local lemma with applications to scheduling and satisfiability problems (extended abstract). (*see* **2005i:68003**)
— (*with* Sohler, Christian) Estimating the weight of metric minimum spanning trees in sublinear-time. (English summary) **2005j:68126**
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Damaschke, Peter Distributed soft path coloring. (English summary) **2005c:68220**
Dantsin, E. Ya. (*with* Hirsch, Edward A.; Wolpert, Alexander) Algorithms for SAT based on search in Hamming balls. (English summary) **2005e:68090**
Díaz, Josep (*with* Do, Norman; Serna, Maria José; Wormald, Nicholas C.) Bounds on the max and min bisection of random cubic and random 4-regular graphs. (English summary) **2005h:05184**
Dick, Josef (*with* Sloan, Ian H.; Wang, Xiaoqun[1]; Woźniakowski, Henryk) Liberating the weights. (English summary) **2005h:65008**
Dietzfelbinger, Martin (*with* Woelfel, Philipp) Almost random graphs with simple hash functions. (English summary) **2005k:68041**
—★ Primality testing in polynomial time. **2005m:11235**
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— Typical rounding problems. (English summary) (*see* **2005d:68005**)
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Dubhashi, Devdatt (*with* Laura, Luigi; Panconesi, Alessandro) Analyis and experimental evaluation of a simple algorithm for collaborative filtering in planted partition models (extended abstract). (English summary) (*see* **2005d:68008**)
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— *see also* **Cryan, Mary, (2005i:68004**)
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— (*with* Lehman, Eric; Newman, Ilan; Raskhodnikova, Sofya; Rubinfeld, Ronitt; Samorodnitsky, Alex) Monotonicity testing over general poset domains. (English summary) (*see* **2005i:68004**)
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randomized subcube partitions. (English summary) **2005a:68087**
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Gabow, Harold N. (*with* Skulrattanakulchai, San) Coloring algorithms on subcubic graphs. (English summary) (*see* **2005a:68012**)
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Hartinger, Jürgen (*with* Kainhofer, Reinhold F.; Tichy, Robert F.) Quasi-Monte Carlo algorithms for unbounded, weighted integration problems. (English summary) **2005g:65014**
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Hendrix, Eligius M. T. (*with* Ortigosa, Pilar M.; García-Fernández, I.) On the efficiency and effectiveness of controlled random search. (English summary) **2005d:90058**
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— (*with* Lingas, Andrzej; Zhao, Hairong) Polynomial-time approximation schemes for the Euclidean survivable network design problem. (English summary) (*see* **2005a:68008**)
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— (*with* Măndoiu, Ion I.; Olshevsky, Alexander; Zelikovsky, Alexander) Improved approximation algorithms for the quality of service multicast tree problem. (English summary) **2005k:68236**
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Caragiannis, Ioannis (*with* Ferreira, Afonso; Kaklamanis, Christos; Pérennès, Stéphane; Persiano, Giuseppe; Rivano, Hervé) Approximate constrained bipartite edge coloring. (English summary) **2005k:05088**

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— (*with* Langerman, Stefan) Designing small keyboards is hard. (English summary) **2005i:68030**

Carmi, Paz (*with* Dolev, Shlomi; Har-Peled, Sariel; Katz, Matthew J.; Segal, Michael) Geographic quorum system approximations. (English summary) **2005k:68203**

Chakaravarthy, Venkatesan T. (*with* Krishnamurthy, Rajaesekar) The problem of context sensitive string matching. (English summary) (*see* **2005a:68009**)

Chan, Timothy M. Euclidean bounded-degree spanning tree ratios. (English summary) **2005d:68134**

Chang, Soo Y. *see* **Hwang, Hark-Chin et al., 2005h:90042**

Charikar, Moses S. (*with* Kleinberg, Jon; Kumar, S. Ravi; Rajagopalan, Sridhar; Sahai, Amit; Tomkins, Andrew) Minimizing wirelength in zero and bounded skew clock trees. (English summary) **2005d:68156**

Chataigner, Frédéric Approximating the maximum agreement forest on k trees. (English summary) **2005h:68040**

Chazelle, Bernard (*with* Rubinfeld, Ronitt; Trevisan, Luca) Approximating the minimum spanning tree weight in sublinear time. (English summary) (*see* **2005a:68007**)

Chekuri, Chandra (*with* Mydlarz, Marcelo; Shepherd, F. Bruce) Multicommodity demand flow in a tree (extended abstract). (English summary) (*see* **2005b:68008**)

— (*with* Khanna, Sanjeev) On multidimensional packing problems. (English summary) **2005c:68085**

Chen, Bo[1] *see* **Zhang, Jiawei et al., 2005k:90067**

Chen, Danny Z. (*with* Wu, Xiaodong[1]) Efficient algorithms for k-terminal cuts on planar graphs. (English summary) **2005b:68210**

— *see also* **Wu, Xiaodong[1] et al., 2005b:68219**

Chen, Duhong (*with* Eulenstein, O.; Fernández-Baca, David; Sanderson, Michael J.) Supertrees by flipping. (English summary) **2005b:92030**

Chen, Jian-Er (*with* Huang, Xiuzhen; Kanj, Iyad A.; Xia, Ge) Linear FPT reductions and computational lower bounds. (English summary) **2005j:68040**

— *see also* **Miranda, Antonio et al., (2005b:68004)**

Chen, Jiangzhuo (*with* Rajaraman, Rajmohan; Sundaram, Ravi) Meet and merge: approximation algorithms for confluent flows. (English summary) **2005k:90185**

Chen, Yen Hung (*with* Lu, Chin Lung; Tang, Chuan Yi) On the full and bottleneck full Steiner tree problems. (English summary) (*see* **2005a:05002**)

Chen, Zhi Bin (*with* Li, Jian Ping[3]) Maximizing the throughput of ring routing problem in SONET. (Chinese. English and Chinese summaries)

— *see also* **Sun, Chun Ling et al.**

Chen, Zhuo *see* **Wang, Rui Min**

Cheng, Christine T. Improved approximation algorithms for the demand routing and slotting problem with unit demands on rings. (English summary) **2005h:68008**

Cheriyan, Joseph (*with* Karloff, Howard; Rabani, Yuval) Approximating directed multicuts. (English summary) **2005m:05103**

Chernykh, Ilya *see* **Averbakh, Igor et al., 2005j:90019**

Chin, Francis Y. L. (*with* Deng, Xiao Tie; Fang, Qi-zhi; Zhu, Shanfeng) Approximate and dynamic rank aggregation. (English summary) **2005j:91024**

Chuzhoy, Julia (*with* Guha, Sudipto; Halperin, Eran; Khanna, Sanjeev; Kortsarz, Guy; Naor, Joseph) Asymmetric k-center is $\log^* n$-hard to approximate. (English summary) **2005j:68041**

— (*with* Naor, Joseph) New hardness results for congestion minimization and machine scheduling. (English summary) **2005j:68042**

— *see also* **Bhatia, Randeep et al., (2005b:68008)**

Cohen, Edith (*with* Kaplan, Haim) Balanced-replication algorithms for distribution trees. (English summary) **2005j:68117**

Coja-Oghlan, Amin (*with* Krumke, Sven Oliver; Nierhoff, Till) A heuristic for the stacker crane problem on trees which is almost surely exact. (English summary) **2005e:90096**

— The Lovász number of random graphs. (English summary) **2005d:05131**

— (*with* Goerdt, Andreas; Lanka, André; Schädlich, Frank) Certifying unsatisfiability of random $2k$-SAT formulas using approximation techniques. (English summary) **2005c:68087**

— (*with* Taraz, Anusch) Colouring random graphs in expected polynomial time. (English summary) **2005c:68219**

— (*with* Taraz, Anusch) Exact and approximative algorithms for coloring $G(n, p)$. (English summary) **2005c:05181**

Crochemore, Maxime (*with* Lecroq, Thierry; Plandowski, Wojciech; Iliopoulos, Costas S.; Pinzon, Yoan J.; Rytter, Wojciech) Occurrence and substring heuristics for δ-matching. (English summary) **2005d:68143**

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Damaschke, Peter Approximate location of relevant variables under the crossover distribution. (English summary) **2005f:68125**

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Demaine, Erik D. (*with* Hajiaghayi, Mohammad Taghi; Thilikos, Dimitris M.) 1.5-approximation for treewidth of graphs excluding a graph with one crossing as a minor. (English summary) (*see* **2005d:68005**)

— (*with* Fomin, Fedor V.; Hajiaghayi, Mohammad Taghi; Thilikos, Dimitris M.) Fixed-parameter algorithms for the (k, r)-center in planar graphs and map graphs. (English summary) **2005c:68091**

— (*with* Hajiaghayi, Mohammad Taghi; Nishimura, Naomi; Ragde, Prabhakar; Thilikos, Dimitris M.) Approximation algorithms for classes of graphs excluding single-crossing graphs as minors. (English summary) **2005e:05131**

Demange, Marc (*with* de Werra, Dominique; Monnot, Jérôme; Paschos, Vangelis Th.) Weighted node coloring: when stable sets are expensive. (English summary) (*see* **2005a:68015**)

— Reducing off-line to on-line: an example and its applications. (English summary) **2005b:68130**

— (*with* Paschos, Vangelis Th.) On-line vertex-covering. (English summary) **2005j:05085**

— *see also* **Ausiello, G. et al., (2005b:68020)**

Deng, Xiao Tie (*with* Papadimitriou, Christos H.; Safra, Shmuel) On the complexity of equilibria. (English summary) (*see* **2005i:68004**)

— *see also* **Chin, Francis Y. L. et al., 2005j:91024**

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— *see also* **Cryan, Mary, 2005h:68177**

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— (*with* Garg, Naveen; Könemann, Jochen; Ravi, Ramamoorthi; Sinha, Amitabh) Covering graphs using trees and stars. (English summary) **2005c:05162**

— (*with* Lotker, Zvi; Ron, Dana; Smorodinskiĭ, S. S.) Conflict-free colorings of simple geometric regions with applications to frequency assignment in cellular networks. (English summary) **2005e:68274**

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— (*with* Motwani, Rajeev; O'Callaghan, Liadan Ita; Olston, Chris; Panigrahy, Rina) Computing shortest paths with uncertainty. (English summary) **2005c:68223**

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— *see also* **Ageev, A. A. et al., (2005c:68005)**

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Fotakis, Dimitris A. (*with* Nikoletseas, Sotiris E.; Papadopoulou, Vicky G.; Spirakis, Paul G.) Radiocolorings in periodic planar graphs: PSPACE-completeness and efficient approximations for the optimal range of frequencies. (English summary) (*see* **2005a:68015**)

— *see also* **Andreou, Maria I. et al., (2005b:68019)**

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— *see also* **Navarro, Gonzalo, 2005g:68182**

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— *see also* **Bhatia, Randeep et al., (2005b:68008)**

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— (*with* Lücking, Thomas; Mavronicolas, Marios; Monien, Burkhard) Computing Nash equilibria for scheduling on restricted parallel links. (English summary) (*see* **2005i:68005**)

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— *see also* **Coja-Oghlan, Amin et al., 2005c:68087**

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— *see also* **Alber, Jochen et al., (2005a:68009)**

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— *see also* **Chuzhoy, Julia et al., 2005j:68041**

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— (*with* Iwama, Kazuo; Miyazaki, Shuichi; Yanagisawa, Hiroki) Randomized approximation of the stable marriage. (English summary) **2005e:68181**

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— *see also* **Carmi, Paz et al., 2005k:68203**

Hartman, Tzvika A simpler 1.5-approximation algorithm for sorting by transpositions. (English summary) (*see* **2005a:68010**)

Hassin, Refael (*with* Levin, Asaf) Minimum restricted diameter spanning trees. (English summary) (*see* **2005d:68005**)

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— *see also* **Arkin, Esther M. et al., (2005a:68002)**

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Hon, Wing-Kai (*with* Lam, Tak-Wah; Yiu, Siu-Ming; Kao, Ming-Yang; Sung, Wing-Kin) Subtree transfer distance for degree-d phylogenies. (English summary) **2005i:68087**

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— (*with* Mahdian, Mohammad; Saberi, Amin) Approximating market equilibria. (English summary) **2005c:91011**

— (*with* Vazirani, Vijay V.) An approximation algorithm for the fault tolerant metric facility location problem. (English summary) **2005b:90063**

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Janiak, Adam (*with* Kovalëv, M. Ya.; Kubiak, Wieslaw; Werner, Frank) Positive half-products and scheduling with controllable processing times. (English summary) **2005m:90036**

Jansen, Klaus (*with* Mastrolilli, Monaldo; Solis-Oba, Roberto) Approximation algorithms for flexible job shop problems. (English summary) **2005m:90037**

— *see also* **Approximation, randomization, and combinatorial optimization, 2005b:68007**; **Approximation and online algorithms, 2005c:68005**; **Approximation algorithms for combinatorial optimization, 2005d:68005** *and* **Fishkin, Aleksei V. et al., 2005e:90037**

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Jiang, Ming Hui[2] UPS-k: a set partitioning problem with applications in UPS pickup-delivery system.

Jiang, Tao[1] *see* **Bach, Eric et al., 2005f:68051**

Jothi, Raja (*with* Raghavachari, Balaji) Survivable network design: the capacitated minimum spanning network problem. (English summary) **2005a:68162**

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— *see also* **Hon, Wing-Kai et al., 2005i:68087**

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— *see also* **Berman, Piotr et al., (2005a:68008)**

Karuno, Yoshiyuki (*with* Nagamochi, Hiroshi) A better approximation for the two-machine flowshop scheduling problem with time lags. (English summary) (*see* **2005c:68004**)

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Kim, Yoo-Ah Data migration to minimize the total completion time. (English summary) 2005m:68026
Kimmel, Gad (*with* Sharan, Roded; Shamir, Ron) Computational problems in noisy SNP and haplotype analysis: block scores, block identification, and population stratification. (English summary) 2005g:92020
Kirkpatrick, David *see* **Asano, Tetsuo et al.**, 2005b:68255
Klasing, Ralf *see* **Böckenhauer, Hans-Joachim et al.**, 2005e:68075
Kleinberg, Jon (*with* Papadimitriou, Christos H.; Raghavan, Prabhakar) Segmentation problems. (English summary) 2005m:90174
— *see also* **Charikar, Moses S. et al.**, 2005d:68156
Knauer, Christian *see* **Efrat, Alon et al.**, 2005b:68262
Ko, Ker-I *see* **Ruan, Lu et al.**, 2005g:05113
Köhler, Ekkehard *see* **Baier, Georg et al.**, (2005c:68002)
Kolliopoulos, Stavros G. (*with* Steiner, George) Partially-ordered knapsack and applications to scheduling. (English summary) (*see* 2005c:68002)
— *see also* **Engels, Daniel W. et al.**, 2005h:90036
Könemann, Jochen (*with* Ravi, Ramamoorthi) Quasi-polynomial time approximation algorithm for low-degree minimum-cost Steiner trees. (English summary) 2005e:05137
— (*with* Ravi, Ramamoorthi) Primal-dual meets local search: approximating MST's with nonuniform degree bounds. (English summary) 2005k:90191
— *see also* **Even, Guy et al.**, 2005c:05162
Kononov, Aleksandr Veniaminovich *see* **Ageev, A. A. et al.**, (2005c:68005)
Koolen, Jacobus H. *see* **Dress, Andreas W. M. et al.**, 2005k:92037
Kortsarts, Yana (*with* Kortsarz, Guy; Nutov, Zeev) Greedy approximation algorithms for directed multicuts. (English summary) 2005m:05213
Kortsarz, Guy (*with* Krauthgamer, Robert; Lee, James R.) Hardness of approximation for vertex-connectivity network design problems. (English summary) 2005e:68079
— *see also* **Chuzhoy, Julia et al.**, 2005j:68041; **Kortsarts, Yana et al.**, 2005m:05213 *and* **Even, Guy et al.**, (2005a:68002)
Koudas, Nick *see* **Guha, Sudipto et al.**, (2005j:68008)
Kovalëv, M. Ya. *see* **Janiak, Adam et al.**, 2005m:90036
Kowaluk, Miroslaw *see* **Karpinski, Marek et al.**, 2005g:68134
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Krumke, Sven Oliver (*with* Marathe, Madhav V.; Poensgen, Diana; Ravi, S. S.; Wirth, Hans-Christoph) Budgeted maximum graph coverage. (English summary) (*see* 2005a:68015)
— *see also* **Coja-Oghlan, Amin et al.**, 2005e:90096
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Kumar, Amit[2] *see* **Swamy, Chaitanya**, 2005c:90042 *and* (2005d:68005)
Kumar, Piyush[2] (*with* Mitchell, Joseph S. B.; Yıldırım, E. Alper) Approximate minimum enclosing balls in high dimensions using core-sets. (English summary) 2005f:68151
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Lancia, Giuseppe G. (*with* Pinotti, Maria Cristina; Rizzi, Romeo) Haplotyping populations by pure parsimony: complexity of exact and approximation algorithms. (English summary) 2005g:92021
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— *see also* **Kortsarz, Guy et al.**, 2005e:68079
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— *see also* **Approximation algorithms for combinatorial optimization**, 2005d:68005
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Li, Guo Jun[1] *see* **Li, Shuguang[3] et al.**, 2005k:90041
Li, Jian Ping[3] (*with* Wang, Lu Sheng) On k-coloring of weighted circular-arc graphs. (English summary) 2005c:05190
— *see also* **Chen, Zhi Bin** *and* **Sun, Chun Ling et al.**
Li, Shuguang[3] (*with* Li, Guo Jun[1]; Zhang, Shao-qiang) Minimizing makespan with release times on identical parallel batching machines. (English summary) 2005k:90041
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Mahdian, Mohammad (*with* Pál, Martin) Universal facility location. (English summary) 2005d:90070
— *see also* **Jain, Kamal et al.**, 2005c:91011
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Montenegro, Ravi Vertex and edge expansion properties for rapid mixing. (English summary) 2005j:60140
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— *see also* **Chuzhoy, Julia et al.**, 2005j:68041; 2005j:68042 *and* **Bhatia, Randeep et al.**, (2005b:68008)
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Navarro, Gonzalo (*with* Fredriksson, Kimmo) Average complexity of exact and approximate multiple string matching. (English summary) 2005g:68182
— *see also* **Fredriksson, Kimmo et al.**, 2005h:68168 *and* (2005d:68010)
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Nielsen, Frank[1] (*with* Nock, Richard) A fast deterministic smallest enclosing disk approximation algorithm. (English summary) 2005h:68159
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Nutov, Zeev Approximating rooted connectivity augmentation problems. (English summary) 2005c:68227
— *see also* **Kortsarts, Yana et al.**, 2005m:05213
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Papadimitriou, Christos H. (*with* Vempala, Santosh S.) On the approximability of the traveling salesman problem (extended abstract). (*see* 2005i:68003)
— *see also* **Kleinberg, Jon et al.**, 2005m:90174 *and* **Deng, Xiao Tie et al.**, (2005i:68004)
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Pettie, Seth A new approach to all-pairs shortest paths on real-weighted graphs. (English summary) **2005b:05210**
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Qian, Jianbo (*with* Wang, Cao An) A linear-time approximation scheme for maximum weight triangulation of convex polygons. (English summary) **2005f:68154**
Rababah, Abedallah Distances with rational triangular Bézier surfaces. (English summary) **2005h:65022**
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Rao, Satish (*with* Richa, Andréa W.) New approximation techniques for some linear ordering problems. (English summary) **2005j:68141**
— *see also* Fakcharoenphol, Jittat et al., 2005h:05056 *and* **Arora, Sanjeev et al.**, 2005j:68081
Raskhodnikova, Sofya Approximate testing of visual properties. (English summary) **2005c:68106**
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Regev, Oded Improved inapproximability of lattice and coding problems with preprocessing. (English summary) **2005e:94074**
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(Rolim, José D. P.) *see* **Approximation, randomization, and combinatorial optimization**, 2005b:68007
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Roy, Sasanka (*with* Goswami, Partha P.; Das, Sandip; Nandy, Subhas C.) Optimal algorithm for a special point-labeling problem. (English summary) **2005b:68144**
Ruan, Lu (*with* Du, Hongwei; Jia, Xiaohua; Wu, Weili; Li, Yingshu; Ko, Ker-I) A greedy approximation for minimum connected dominating sets. (English summary) **2005g:05113**
Rubinfeld, Ronitt *see* **Chazelle, Bernard et al.**, (2005a:68007)
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Saks, Michael (*with* Sun, Xiao Dong[1]) Space lower bounds for distance approximation in the data stream model. (English summary) (*see* **2005i:68004**)
Salavatipour, Mohammad R. A $(1+\varepsilon)$-approximation algorithm for partitioning hypergraphs using a new algorithmic version of the Lovász local lemma. (English summary) **2005b:05212**
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Schäfer, Guido *see* **Leonardi, Stefano**, 2005h:90062
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Shachnai, Hadas *see* **Naor, Joseph et al.**, 2005e:90041
Shafrir, Nira *see* **Kaplan, Haim**, 2005g:68207
Shamir, Ron (*with* Sharan, Roded; Tsur, Dekel) Cluster graph modification problems. (English summary) (*see* **2005a:68015**)
— (*with* Sharan, Roded; Tsur, Dekel) Cluster graph modification problems. (English summary) **2005e:68191**
— *see also* Kimmel, Gad et al., 2005g:92020
Sharan, Roded *see* **Shamir, Ron et al.**, 2005e:68191; (2005a:68015) *and* **Kimmel, Gad et al.**, 2005g:92020
Sharifi, Ali *see* **Esfahbod, Behdad et al.**, (2005b:68005)
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Shmoys, David B. The design and analysis of approximation algorithms: facility location as a case study. (English summary) **2005h:90063**
— *see also* Archer, Aaron et al., 2005d:90063
Sigal, I. Kh. Large-scale discrete programming problems: parametrization and investigation of ε-approximate algorithms. (Russian) **2005c:90127**
Silverman, Ruth *see* **Kanungo, Tapas et al.**, 2005a:68210
Sinclair, Alistair *see* **Morris, Ben**, 2005k:68095
Sinha, Amitabh *see* **Even, Guy et al.**, 2005c:05162
Sivakumar, Dandapani *see* **Fagin, Ronald et al.**, 2005a:68154 *and* **Ajtai, Miklós et al.**, (2005i:68004)
Skutella, Martin *see* **Baier, Georg et al.**, (2005c:68002)
Slany, Wolfgang *see* **Even, Guy et al.**, (2005a:68002)
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Smorodinskiĭ, S. S. *see* **Even, Guy et al.**, 2005e:68274
Solis-Oba, Roberto *see* **Approximation and online algorithms**, 2005c:68005; **Jansen, Klaus et al.**, 2005c:68005 *and* 2005m:90037
Spakowski, Holger *see* **Hemaspaandra, Edith et al.**, (2005a:68015)
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van Stee, Rob *see* **Bach, Eric et al.**, 2005f:68051
Steger, Angelika Approximability of NP-optimization problems. **2005a:68080**
Steiner, George *see* **Kolliopoulos, Stavros G.**, (2005c:68002)
Sudakov, Benny *see* **Bollobás, Béla et al.**, 2005d:05130
Sun, Chun Ling (*with* Chen, Zhi Bin; Li, Jian Ping[3]) A new approximation algorithm for the bin-packing problem. (Chinese. English and Chinese summaries)
Sun, Xiao Dong[1] *see* **Saks, Michael**, (2005i:68004)
Sun, Zheng[1] (*with* Reif, John H.) Adaptive and compact discretization for weighted region optimal path finding. (English summary) **2005c:68276**
Sundaram, Ravi *see* **Chen, Jiangzhuo et al.**, 2005k:90185
Sung, Wing-Kin *see* **Jansson, Jesper et al.**, 2005f:68162 *and* **Hon, Wing-Kai et al.**, 2005i:68087
Sviridenko, M. I. *see* **Arkin, Esther M. et al.**, (2005a:68002)
Swamy, Chaitanya (*with* Kumar, Amit[2]) Primal-dual algorithms for connected facility location problems. (English summary) (*see* **2005d:68005**)
— (*with* Kumar, Amit[2]) Primal-dual algorithms for connected facility location problems. (English summary) **2005c:90042**
Talwar, Kunal *see* **Fakcharoenphol, Jittat et al.**, 2005c:05163 *and* 2005h:05056
Tamir, Tami *see* **Naor, Joseph et al.**, 2005e:90041
Tan, Zhiyi (*with* He, Yong[1]) Ordinal scheduling problem and its asymptotically optimal algorithms on parallel machine system. (English summary) **2005c:90033**
Tang, Chuan Yi *see* **Chen, Yen Hung et al.**, (2005a:05002)
Tantau, Till A logspace approximation scheme for the shortest path problem for graphs with bounded independence number. (English summary) **2005e:68103**
Taraz, Anusch *see* **Coja-Oghlan, Amin**, 2005c:05181 *and* 2005c:68219
Tate, Stephen R. *see* **Kao, Ming-Yang et al.**, (2005i:68003)
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Tirthapura, Srikanta *see* **Gibbons, Phillip B.**, 2005m:68047
Tomás, Ana Paula (*with* Bajuelos, António Leslie; Marques, Fábio) Approximation algorithms to minimum vertex cover problems on polygons and terrains. (English summary) (*see* **2005c:00014**)
Tomkins, Andrew *see* **Charikar, Moses S. et al.**, 2005d:68156
Torres, Luz *see* **Miranda, Antonio et al.**, (2005b:68004)
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Vakhaniya, Nodari N. *see* **Shchepin, E. V.**, 2005g:90061
Vazirani, Umesh V. *see* **Arora, Sanjeev et al.**, 2005j:68081
Vazirani, Vijay V. *see* **Jain, Kamal**, 2005b:90063; (2005j:68008) *and* **Approximation algorithms for combinatorial optimization**, 2005d:68005
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Venkatesh, Srinivasan *see* **Håstad, Johan**, 2005e:68066
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Vishwanathan, Sundar An approximation algorithm for finding long paths in Hamiltonian graphs. (English summary) **2005d:05141**
Visser, Marc Simon *see* **Manyem, Prabhu et al.**, 2005h:68043

Vollmer, Heribert *see* **Glaßer, Christian et al., 2005k:90228**
Vyalyĭ, M. N. Approximate computation of the weight function of a linear binary code. (Russian. Russian summary) **2005m:81071**
Wang, Cao An *see* **Qian, Jianbo, 2005f:68154**
Wang, Lu Sheng *see* **Li, Jian Ping[3], 2005c:05190**
Wang, Rui Min (*with* Chen, Zhuo) A full-angle algorithm for solving the triangle packing problem. (Chinese. English and Chinese summaries)
Wegener, Ingo *see* **Giel, Oliver, 2005c:68239**
Wein, Joel *see* **Engels, Daniel W. et al., 2005h:90036**
Wenk, Carola *see* **Efrat, Alon et al., 2005b:68262**
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Wu, Angela Y. *see* **Kanungo, Tapas et al., 2005a:68210**
Wu, Bang Ye Approximation algorithms for the optimal p-source communication spanning tree. (English summary) **2005m:05216**
Wu, Weili *see* **Ruan, Lu et al., 2005g:05113**
Wu, Xiaodong[1] (*with* Chen, Danny Z.; Mason, James J.; Schmid, Steven R.) Efficient approximation algorithms for pairwise data clustering and applications. (English summary) **2005b:68219**
— *see also* **Chen, Danny Z., 2005b:68210**
Xia, Ge *see* **Chen, Jian-Er et al., 2005j:68040**
Xu, Guang (*with* Xu, Jinhui) An LP rounding algorithm for approximating uncapacitated facility location problem with penalties. (English summary)
Xu, Jinhui (*with* Lin, Zhiyong; Yang, Yang[2]; Berezney, Ronald) Traveling salesman problem of segments. (English summary) **2005b:90111**
— *see also* **Xu, Guang**
Yakhini, Zohar *see* **Aumann, Yonatan et al., 2005k:92034**
Yamamoto, Shigeyuki *see* **Ishii, Toshimasa et al., 2005e:05134**
Yanagisawa, Hiroki *see* **Halldórsson, Magnús M. et al., 2005d:05146** *and* **2005e:68181**
Yang, Yang[2] *see* **Xu, Jinhui et al., 2005b:90111**
Yap, Chee K. *see* **Asano, Tetsuo et al., 2005b:68255**
Ye, Deshi (*with* Zhang, Hu) The range assignment problem in static ad-hoc networks on metric spaces. (English summary)
Ye, Yinyu (*with* Zhang, Jiawei) An improved algorithm for approximating the radii of point sets. (English summary) **2005c:68113**
— *see also* **Ageev, A. A. et al., 2005c:90039** *and* **Zhang, Jiawei et al., 2005k:90067**
Yıldırım, E. Alper *see* **Kumar, Piyush[2] et al., 2005f:68151**
Yiu, Siu-Ming *see* **Hon, Wing-Kai et al., 2005i:68087**
Zeh, Norbert *see* **Bose, Prosenjit et al., 2005c:68217** *and* **2005e:68237**
Zhang, Guochuan *see* **Fishkin, Aleksei V., 2005c:68023**
Zhang, Hu *see* **Ye, Deshi**
Zhang, Jiawei (*with* Chen, Bo[1]; Ye, Yinyu) A multiexchange local search algorithm for the capacitated facility location problem. (English summary) **2005k:90067**
— *see also* **Ye, Yinyu, 2005c:68113** *and* **Ageev, A. A. et al., 2005c:90039**
Zhang, Shao-qiang *see* **Li, Shuguang[3] et al., 2005k:90041**
Zhao, Liang[1] (*with* Nagamochi, Hiroshi; Ibaraki, Toshihide) On generalized greedy splitting algorithms for multiway partition problems. (English summary) **2005k:05025**
Zhu, Shanfeng *see* **Chin, Francis Y. L. et al., 2005j:91024**
Zito, Michele *see* **Beis, Mihalis et al., (2005b:68019)**

Items listed otherwise than by author

Approximation algorithms for combinatorial optimization ★ Approximation algorithms for combinatorial optimization. **2005d:68005**
Approximation and online algorithms ★ Approximation and online algorithms. **2005c:68005**
Approximation, randomization, and combinatorial optimization ★ Approximation, randomization, and combinatorial optimization. **2005b:68007**
Budapest ★ Approximation and online algorithms. **2005c:68005**
Handbook:
Scheduling ★ Handbook of scheduling. **2005d:90001**
Lecture Notes in Computer Science ★ Approximation algorithms for combinatorial optimization. **2005d:68005**
— ★ Approximation, randomization, and combinatorial optimization. **2005b:68007**
— ★ Approximation and online algorithms. **2005c:68005**
Princeton, NJ ★ Approximation, randomization, and combinatorial optimization. **2005b:68007**
Rome ★ Approximation algorithms for combinatorial optimization. **2005d:68005**

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Abramov, S. A. (*with* Petkovšek, Marko) Erratum to: "Rational normal forms and minimal decompositions of hypergeometric terms" [J. Symbolic Comput. 33 (2002), no. 5, 521–543; MR1919902 (2004i:33037)].
Andreica, Alina Defining algebraic categories in Mathematica. (English summary)
Baldwin, Douglas Eugene (*with* Göktaş, Ü.; Hereman, W.) Symbolic computation of hyperbolic tangent solutions for nonlinear differential-difference equations. (English summary)
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Bläser, Markus Improvements of the Alder-Strassen bound: algebras with nonzero radical. (English summary) (*see* **2005a:68007**)
Botana Ferreiro, F. (*with* Valcarce, José L.) Automatic determination of envelopes and other derived curves within a graphic environment. (English summary)
Bradford, Russell J. *see* **Beaumont, James C. et al., (2005i:68002)**
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(Caviness, B. F.) *see* **Bronstein, Manuel, 2005i:68092**
Chèze, Guillaume Absolute polynomial factorization in two variables and the knapsack problem. (English summary) **2005j:68134**
Chupaeva, I. Yu. Automated proving and analysis of geometric theorems in coordinate-free form, using the method of anticommutative Gröbner bases. (Russian. English and Russian summaries) **2005e:68267**
Corvez, Solen (*with* Rouillier, Fabrice) Using computer algebra tools to classify serial manipulators. (English summary) (*see* **2005d:68006**)
Davenport, James H. *see* **Beaumont, James C. et al., (2005i:68002)**
Dolzmann, Andreas (*with* Seidl, Andreas; Sturm, Thomas) Efficient projection orders for CAD. (English summary) (*see* **2005i:68002**)
Elkadi, Mohamed (*with* Galligo, André; Lê, Thi Ha) Parametrized surfaces in $\mathbb{P}^3$ of bidegree (1, 2). (English summary) **2005j:68135**
Emiris, Ioannis Z. (*with* Pan, Victor Ya.) Improved algorithms for computing determinants and resultants. (English summary) **2005h:68186**
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Galligo, André *see* **Elkadi, Mohamed et al., 2005j:68135**
Gao, Xiao-Shan (*with* Zhang, Ming Bo[2]) Decomposition of differential polynomials with constant coefficients. (English summary) (*see* **2005i:68002**)
Gatermann, Karin (*with* Parrilo, Pablo A.) Symmetry groups, semidefinite programs, and sums of squares. (English summary) **2005d:68155**
von zur Gathen, Joachim (*with* Shparlinski, Igor E.; Sinclair, Alistair) Finding points on curves over finite fields. (English summary) **2005b:68293**
— (*with* Nöcker, Michael) Computing special powers in finite fields. (English summary) **2005g:68202**
Göktaş, Ü. *see* **Baldwin, Douglas Eugene et al.**
Grigor'ev, D. Yu. (*with* Pasechnik, Dmitrii V.) Polynomial-time computing over quadratic maps. I. Sampling in real algebraic sets. (English summary) **2005m:68262**
Hereman, W. *see* **Baldwin, Douglas Eugene et al.**
van Hoeij, Mark (*with* Monagan, Michael) Algorithms for polynomial GCD computation over algebraic function fields. (English summary) **2005j:68136**
Kaltofen, Erich (*with* Villard, Gilles) On the complexity of computing determinants (English summary) **2005m:68263**
Kauers, Manuel Computer proofs for polynomial identities in arbitrary many variables. (English summary) (*see* **2005i:68002**)
— *see also* **Ballarin, Clemens, 2005f:68172**
Kıymaz, Onur (*with* Mirasyedioğlu, Şeref) A new symbolic computation for formal integration with exact power series. (English summary) **2005i:68093**
Krtolica, Predrag V. (*with* Stanimirović, Predrag S.; Stanojević, Rade) Reverse Polish notation in constructing the algorithm for polygon triangulation. (English summary) **2005g:68203**
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Li, Hong Bo Symbolic computation in the homogeneous geometric model with Clifford algebra. (English summary) (*see* **2005i:68002**)
Lian, Xinze *see* **Wang, Weiming**
Lin, Changsheng *see* **Wang, Weiming**
Lingas, Andrzej A geometric approach to Boolean matrix multiplication. (English summary) (*see* **2005b:68004**)
Liu, Jin Wang (*with* Shen, Jian Hua; Xiao, Yue Long) The Groebner bases of two-sided ideals in Clifford and Grassmann algebras. (Chinese. English and Chinese summaries) **2005k:68241**
Malashonok, G. I. (*with* Satina, E. S.) Fast multiplication and sparse structures. (Russian. Russian summary)
Mirasyedioğlu, Şeref *see* **Kıymaz, Onur, 2005i:68093**
Monagan, Michael Maximal quotient rational reconstruction: an almost optimal algorithm for rational reconstruction. (English summary) **2005j:68137**
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Schneider, Carsten The summation package Sigma: underlying principles and a rhombus tiling application. (English summary) **2005e:68270**
Seidl, Andreas *see* **Dolzmann, Andreas et al., (2005i:68002)**
Shackell, John R. ★ Symbolic asymptotics. **2005i:68094**
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Shparlinski, Igor E. *see* **von zur Gathen, Joachim et al., 2005b:68293**
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Sturm, Thomas *see* **Dolzmann, Andreas et al., (2005i:68002)**
Temurchaolu An algorithmic theory of reduction of differential polynomials system. (English and Chinese summaries) **2005a:68240**
Touratier, E. Étude du typage dans le système de calcul scientifique Aldor. [Study of typing in the computer algebra system Aldor] **2005f:68173**
Tung, Michael M. FORM matters: fast symbolic computation under UNIX. (English summary)
Valcarce, José L. *see* **Botana Ferreiro, F.**
Villard, Gilles *see* **Kaltofen, Erich, 2005m:68263**
Wang, Weiming (*with* Lian, Xinze) A new algorithm for symbolic integral with application. (English summary)
— (*with* Lin, Changsheng) A new algorithm for integral of trigonometric functions with mechanization. (English summary)
Wester, Michael J. Foreword: Applications of computer algebra in science, engineering, simulation and special software.
Xiao, Yue Long *see* **Liu, Jin Wang et al., 2005k:68241**
Zhang, Jun[13] An automatic proof of Euler's formula. (English summary)
Zhang, Ming Bo[2] *see* **Gao, Xiao-Shan, (2005i:68002)**

Items with secondary classifications in 68W30

Abad, Alberto J. *see* **San-Juan, Juan Félix, (2005c:00014)**
Abdeljaoued, Jounaïdi (*with* Lombardi, Henri) ★ Méthodes matricielles: introduction à la complexité algébrique. (French) [Matrix methods: introduction to algebraic complexity] **2005c:68001**
Abramov, S. A. (*with* Le, H. Q.; Petkovšek, Marko) Rational canonical forms and efficient representations of hypergeometric terms. (English summary) **2005m:33040**
— (*with* Carette, Jacques; Geddes, Keith O.; Le, H. Q.) Telescoping in the context of symbolic summation in Maple. (English summary) **2005f:05173**
— (*with* Ryabenko, A. A.) Sparse power series and parametrized linear operators. (Russian. Russian summary) **2005m:34012**
Alonso-Jiménez, José Antonio *see* **Laita, Luis M. et al.**
Altas, Irfan *see* **Yazıcı, Ali et al., (2005c:00014)**
Anai, Hirokazu (*with* Yanami, Hitoshi) SyNRAC: a Maple-package for solving real algebraic constraints. (English summary) (*see* **2005c:00014**)
Andrei, Ştefan (*with* Chin, Wei-Ngan) Solving a class of higher-order equations over a group structure. (English summary) **2005g:39038**
Apel, Joachim Passive complete orthonomic systems of PDEs and involutive bases of polynomial modules. (English summary) **2005a:35014**
Aris, Nor'aini (*with* Rahman, Ali bin Abdul) On the division of generalized polynomials. (English summary) **2005d:13041**
Bailey, David H. *see* **Borwein, Jonathan Michael et al., 2005h:11002**
Baldwin, Douglas Eugene (*with* Göktaş, Ü.; Hereman, W.; Hong, L.; Martino, R. S.; Miller, Joel C.) Symbolic computation of exact solutions expressible in hyperbolic and elliptic functions for nonlinear PDEs. (English summary) **2005i:35025**
Baranovskiĭ, S. P. (*with* Shirokov, Igor V.; Shmakov, S. V.) Computation of the automorphism group of a finite-dimensional algebra in the Maple system. (Russian. English summary) (*see* **2005c:00008**)
Barkatou, Moulay A. (*with* Chyzak, Frédéric; Loday-Richaud, Michèle) Remarques algorithmiques liées au rang d'un opérateur différentiel linéaire. (English and French summaries) [Algorithmic methods involving the rank of a linear differential operator] **2005c:34178**
Basiri, Abdolali (*with* Faugère, Jean-Charles) Changing the ordering of Gröbner bases with LLL: case of two variables. (English summary) **2005b:13049**
— (*with* Enge, Andreas; Faugère, Jean-Charles; Gürel, Nicolas) The arithmetic of Jacobian groups of superelliptic cubics. (English summary) **2005f:11126**
Bayer, Thomas Optimal descriptions of orbit spaces and strata of finite groups. (English summary) **2005k:14099**
Beaumont, James C. (*with* Bradford, Russell J.; Davenport, James H.) Better simplification of elementary functions through power series. (English summary) **2005e:33018**
Bläser, Markus Algebras of minimal rank over arbitrary fields. (English summary) **2005c:68081**
— A complete characterization of the algebras of minimal bilinear complexity. (English summary) **2005k:68072**
Bodnár, Gábor Algorithmic tests for the normal crossing property. (English summary) **2005h:14033**
— Efficient desingularization of reducible algebraic sets. (English summary) **2005k:14026**
Bompadre, A. (*with* Matera, Guillermo; Wachenchauzer, R.; Waissbein, A.) Polynomial equation solving by lifting procedures for ramified fibers. (English summary) **2005g:13044**
Borwein, Jonathan Michael (*with* Bailey, David H.; Girgensohn, Roland) ★ Experimentation in mathematics. **2005h:11002**
Bostan, Alin (*with* Salvy, Bruno; Schost, Éric) Fast algorithms for zero-dimensional polynomial systems using duality. (English summary) **2005b:13050**
— (*with* Lecerf, G.; Salvy, Bruno; Schost, Éric; Wiebelt, B.) Complexity issues in bivariate polynomial factorization. (English summary) **2005k:68084**
Boulier, François (*with* Lemaire, François; Moreno Maza, Marc) Pardi! (English summary) **2005b:13046**
Bradford, Russell J. *see* **Beaumont, James C. et al., 2005e:33018**
Breitzman, Anthony F. *see* **Johnson, Jeremy R., 2005e:65220**
Brunat, Josep M. (*with* Montes, Antonio) The characteristic ideal of a finite, connected, regular graph. (English summary) **2005k:05230**
Buchberger, Bruno (*with* Ida, Tetsuo) Computational origami: interaction of solving, proving and computing. (English summary)
Burger, Reinhold (*with* Labahn, George; van Hoeij, Mark) Closed form solutions of linear ODEs having elliptic function coefficients. (English summary) **2005k:34003**
Bürgisser, Peter The complexity of factors of multivariate polynomials. (English summary) **2005i:68024**
Busé, Laurent Residual resultant over the projective plane and the implicitization problem. (English summary) **2005a:14083**
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Çelik, Ercan On the numerical solution of differential-algebraic equations with index-2. (English summary) **2005g:65117**
Chan, Kai Cheong (Lemmus) (*with* Cheb-Terrab, E. S.) Non-Liouvillian solutions for second order linear ODEs. (English summary) **2005j:34001**
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Chekanov, N. A. *see* **Gusev, Aleksandr A. et al., 2005m:81005**
Chen, Xue Feng (*with* Wang, DingKang) The projection of quasi variety and its application on geometric theorem proving and formula deduction. (English summary) (*see* **2005d:68006**)
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Chin, Wei-Ngan *see* **Andrei, Ştefan, 2005g:39038**
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Chyzak, Frédéric *see* **Barkatou, Moulay A. et al., 2005c:34178**
Cluzeau, Thomas (*with* van Hoeij, Mark) A modular algorithm for computing the exponential solutions of a linear differential operator. (English summary) **2005m:13035**
Corless, Robert M. (*with* Giesbrecht, Mark W.; van Hoeij, Mark; Kotsireas, Ilias S.; Watt, Stephen M.) Towards factoring bivariate approximate polynomials. (English summary) **2005j:13026**
— (*with* González-Vega, Laureano; Necula, Ioana; Shakoori, Azar) Topology determination of implicitly defined real algebraic plane curves. (English summary) **2005h:65026**
— (*with* Watt, Stephen M.; Zhi, Lihong) *QR* factoring to compute the GCD of univariate approximate polynomials. (English summary) **2005i:65064**
Courtois, Nicolas T. (*with* Patarin, Jacques) About the XL algorithm over GF(2). (English summary) (*see* **2005b:94045**)
Dahan, Xavier (*with* Schost, Éric) Sharp estimates for triangular sets. (English summary) **2005m:13038**
D'Andrea, Carlos (*with* Emiris, Ioannis Z.) Hybrid sparse resultant matrices for bivariate systems. (English summary) **2005b:15013**
Darwiche, Adnan Decomposable negation normal form. (English summary) **2005m:03027**
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De Loera, Jesús A. (*with* Haws, David; Hemmecke, Raymond; Huggins, P.; Sturmfels, Bernd; Yoshida, Ruriko) Short rational functions for toric algebra and applications. (English summary) **2005j:13027**
— (*with* Hemmecke, Raymond; Tauzer, Jeremiah; Yoshida, Ruriko) Effective lattice point counting in rational convex polytopes. (English summary) **2005i:52020**
Develin, Mike (*with* Sullivant, Seth) Markov bases of binary graph models. (English summary) **2005b:62125**
Diaz-Toca, Gema M. (*with* González-Vega, Laureano) Various new expressions for subresultants and their applications. (English summary) **2005j:13028**
Dickenstein, Alicia (*with* Emiris, Ioannis Z.) Multihomogeneous resultant matrices. (English summary) **2005h:13044**
Duan, Hai Bao (*with* Zhao, Xu An; Zhao, Xuezhi) The Cartan matrix and enumerative calculus. (English summary) **2005g:14089**
Eberly, Wayne Reliable Krylov-based algorithms for matrix null space and rank (extended abstract). (English summary) (*see* **2005i:68002**)
El Houari, Hassan (*with* El Kahoui, M'Hammed) Algorithms for recognizing coordinates in two variables over UFD's. (English summary) **2005k:13041**
El Kahoui, M'Hammed *see* **El Houari, Hassan, 2005k:13041**
Emiris, Ioannis Z. (*with* Mourrain, Bernard; Pan, Victor Ya.) Preface [Algebraic and numberical algorithms].
— *see also* **D'Andrea, Carlos, 2005b:15013** *and* **Dickenstein, Alicia, 2005h:13044**
Enge, Andreas *see* **Basiri, Abdolali et al., 2005f:11126**
Ergenç, Tanıl *see* **Yazıcı, Ali et al., (2005c:00014)**
Etayo Gordejuela, Fernando (*with* González-Vega, Laureano; Tănăsescu, Claudiu) Computing the intersection curve of two surfaces: The tangential case. (English summary) **2005f:65021**
Evans, Steven N. Fourier analysis and phylogenetic trees. (English summary) (*see* **2005b:94011**)
Famelis, I. Th. (*with* Papakostas, S. N.; Tsitouras, Ch.) Symbolic derivation of Runge-Kutta order conditions. (English summary) **2005e:65092**
Faugère, Jean-Charles A new efficient algorithm for computing Gröbner bases without reduction to zero (F_5). (English summary) **2005c:13033**
— (*with* Joux, Antoine) Algebraic cryptanalysis of hidden field equation (HFE) cryptosystems using Gröbner bases. (English summary) **2005e:94140**
— *see also* **Basiri, Abdolali et al., 2005b:13049** *and* **2005f:11126**
Feng, Ruyong (*with* Gao, Xiao-Shan) Rational general solutions of algebraic ordinary differential equations. (English summary) **2005j:34002**
Filaseta, Michael (*with* Meade, Douglas B.) Irreducibility testing of lacunary 0, 1-polynomials. (English summary) **2005m:12010**
Foo, Mao-Ching (*with* Chionh, Eng-Wee) Corner point pasting and Dixon $\mathscr{A}$-resultant quotients. (English summary) **2005d:13043**
Fortuna, Elisabetta (*with* Gianni, Patrizia; Parenti, Paola; Traverso, Carlo) Computing the topology of real algebraic surfaces. (English summary) **2005d:14083**
Frandsen, Gudmund Skovbjerg (*with* Shparlinski, Igor E.) On reducing a system of equations to a single equation. (English summary) **2005k:13055**
Fredet, Anne Factorization of linear differential operators in exponential extensions. (English summary) **2005d:12007**

Gabbay, Murdoch J. *see* **Urban, Christian et al., 2005e:03025**
Gao, Min (*with* Kato, Yasuyuki; Ito, Masaaki) A REDUCE package for finding conserved densities of systems of implicit difference-difference equations. (English summary)
Gao, Xiao-Shan *see* **Feng, Ruyong, 2005j:34002**
von zur Gathen, Joachim (*with* Nöcker, Michael) Fast arithmetic with general Gaußperiods. (English summary) **2005d:11173**
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Giesbrecht, Mark W. (*with* Kaltofen, Erich; Lee, Wen-shin) Algorithms for computing the sparsest shifts of polynomials via the Berlekamp/Massey algorithm. **2005d:13044**
— *see also* **Corless, Robert M. et al., 2005j:13026**
Girgensohn, Roland *see* **Borwein, Jonathan Michael et al., 2005h:11002**
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de Graaf, Willem A. Five constructions of representations of quantum groups. (English summary) **2005i:17018**
Graf, Urs ★ Applied Laplace transforms and z-transforms for scientists and engineers. **2005d:44001**
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Gusev, Aleksandr A. (*with* Chekanov, N. A.; Rostovtsev, V. A.; Vinitskiĭ, S. I.; Uwano, Yoshio) A comparison of algorithms for the normalization and quantization of polynomial Hamiltonians. (Russian. Russian summary) **2005m:81005**
Gutierrez, Jaime (*with* Rubio, Rosario; Sevilla, David) Unirational fields of transcendence degree one and functional decomposition. (English summary) **2005g:12005**
— *see also* **ISSAC 2004, 2005i:68002**
Hanrot, Guillaume (*with* Morain, François) Solvability by radicals from an algorithmic point of view. (English summary) **2005a:11200**
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Haws, David *see* **De Loera, Jesús A. et al., 2005j:13027**
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Heuberger, Clemens (*with* Togbé, Alain; Ziegler, Volker) Automatic solution of families of Thue equations and an example of degree 8. (English summary) **2005h:11070**
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Jebelean, Tudor *see* **Kovács, Laura**
Jermann, Christophe (*with* Neveu, Bertrand; Trombettoni, Gilles) A new structural rigidity for geometric constraint systems. (English summary) (*see* **2005d:68006**)
Johnson, Jeremy R. (*with* Breitzman, Anthony F.) Automatic derivation and implementation of fast convolution algorithms. (English summary) **2005e:65220**
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Joswig, Michael (*with* Ziegler, Günter M.) Convex hulls, oracles, and homology. (English summary) **2005h:52017**
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Kalman, Dan Doubly recursive multivariate automatic differentiation. **2005e:65224**
Kaltofen, Erich An output-sensitive variant of the baby steps/giant steps determinant algorithm. **2005e:15008**
— *see also* **Giesbrecht, Mark W. et al., 2005d:13044**
Kapur, Deepak (*with* Narendran, Paliath; Wang, Lida) An E-unification algorithm for analyzing protocols that use modular exponentiation. (English summary) (*see* **2005a:68016**)
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Kato, Yasuyuki *see* **Gao, Min et al.**
Kim, Chang Hoon *see* **Kwon, Soonhak et al., 2005d:94123**
Klivans, Adam R. (*with* Spielman, Daniel A.) Randomness efficient identity testing of multivariate polynomials. (English summary) (*see* **2005j:68008**)
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— *see also* **Corless, Robert M. et al., 2005j:13026**
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Kovács, Laura (*with* Jebelean, Tudor) Practical aspects of imperative program verification in Theorema. (English summary)
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Kwon, Soonhak (*with* Kim, Chang Hoon; Hong, Chun Pyo) Gauss period, sparse polynomial, redundant basis, and efficient exponentiation for a class of finite fields with small characteristic. (English summary) **2005d:94123**
Labahn, George (*with* Li, Ziming) Hyperexponential solutions of finite-rank ideals in orthogonal Ore rings. (English summary) **2005m:16035**
— *see also* **Cheng, Howard, 2005d:13042** *and* **Burger, Reinhold et al., 2005k:34003**
Laita, Luis M. (*with* Roanes-Lozano, Eugenio; Alonso-Jiménez, José Antonio) Preface to the special issue of RACSAM devoted to "Symbolic computation in logic and artificial intelligence".
Langley, Simon *see* **Richardson, Daniel, 2005d:65075**
Larcombe, Peter J. (*with* Riese, Axel; Zimmermann, Burkhard) Computer proofs of matrix product identities. (English summary) **2005a:15015**
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— Applications of the theory of weakly nondegenerate conditions to zero decomposition for polynomial systems. (English summary) **2005g:13049**
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Luks, Eugene M. (*with* Miyazaki, Takunari) Polynomial-time normalizers for permutation groups with restricted composition factors. (English summary) **2005d:20006**
Marché, Claude (*with* Urbain, Xavier) Modular and incremental proofs of AC-termination. (English summary) **2005e:68118**
Marco, Ana (*with* Martínez, José-Javier) Parallel computation of determinants of matrices with polynomial entries. (English summary) **2005f:65066**
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Matera, Guillermo (*with* Sedoglavic, Alexandre) The differential Hilbert function of a differential rational mapping can be computed in polynomial time. (English summary) **2005d:12009**
— (*with* Sedoglavic, Alexandre) Fast computation of discrete invariants associated to a differential rational mapping. (English summary) **2005a:12011**
— *see also* **Bompadre, A. et al., 2005g:13044**
Matiyasevich, Yu. V. Elimination of quantifiers from arithmetical formulas defining recursively enumerable sets. (English summary) **2005d:03057**
McMillan, K. L. Interpolation and SAT-based model checking. (English summary) (*see* **2005b:68012**)
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Micciancio, Daniele (*with* Warinschi, Bogdan) A linear space algorithm for computing the Hermite normal form. (English summary) **2005b:15034**
Michel, Jean² Calculs en théorie des groupes et introduction au langage GAP (groups, algorithms and programming). [Group-theoretical computations and introduction to the language GAP (groups, algorithms and programming)] **2005b:20002**
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Milowski, R. Alexander Computing irredundant irreducible decompositions of large scale monomial ideals. (English summary) (*see* **2005i:68002**)
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Nepomnyashchiĭ, V. A. A symbolic method for the verification of definite iterations over altered data structures. (Russian. Russian summary)
Neves, Armando G. M. Symbolic computation of high-order exact Picard iterates for systems of linear differential equations with time-periodic coefficients. (English summary) (*see* **2005c:00014**)
Neveu, Bertrand *see* **Jermann, Christophe et al., (2005d:68006)**
Nöcker, Michael *see* **von zur Gathen, Joachim, 2005d:11173**
Noël, Alfred G. Computing maximal tori using LiE and Mathematica. (English summary) **2005d:22010**
Noro, Masayuki (*with* Yokoyama, Kazuhiro) Yet another practical implementation of polynomial factorization over finite fields. **2005d:11181**
Otto, Friedrich (*with* Sokratova, Olga V.) Reduction relations for monoid semirings. (English summary) **2005g:68069**
Pan, Victor Ya. (*with* Wang, Xinmao) Acceleration of Euclidean algorithm and extensions. (English summary) **2005a:68101**
— Randomized acceleration of fundamental matrix computations. (English summary) **2005c:15037**
— (*with* Wang, Xinmao) On rational number reconstruction and approximation. (English

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Pemmaraju, Sriram V. (*with* Skiena, Steven S.) Combinatorica: a system for exploring combinatorics and graph theory in Mathematica.
Pérez-Díaz, Sonia (*with* Sendra, J. Rafael) Computation of the degree of rational surface parametrizations. (English summary) **2005d:14090**
Petković, Marko D. (*with* Stanimirović, Predrag S.) Partitioning method for two-variable rational and polynomial matrices. (English summary)
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Pratibha Fast and efficient algorithms for solving ordinary differential equations through computer algebra system. (English summary)
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Robbiano, Lorenzo *see* **Caboara, Massimo et al., 2005g:13045**
Rodríguez-Carbonell, Enric (*with* Kapur, Deepak) Automatic generation of polynomial loop invariants: algebraic foundations. (English summary) (*see* **2005i:68002**)
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San-Juan, Juan Félix (*with* Abad, Alberto J.) Symbolic solution of Kepler's generalized equation. (English summary) (*see* **2005c:00014**)
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Shemyakova, E. S. Involutive divisions. Graphs. (Russian. Russian summary) **2005g:20108**
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Shmakov, S. V. *see* **Baranovskiĭ, S. P. et al., (2005c:00008)**
Shparlinski, Igor E. Sparse polynomial approximation in finite fields. (English summary) (*see* **2005j:68008**)
— (*with* Steinfeld, Ron) Noisy Chinese remaindering in the Lee norm. (English summary) **2005e:11167**
— *see also* **Frandsen, Gudmund Skovbjerg, 2005k:13055**
Sills, Andrew V. RRtools—a Maple package for aiding the discovery and proof of finite Rogers-Ramanujan type identities. (English summary) **2005f:33041**
Skiadas, Photis *see* **Koussoulas, Nick T., 2005e:70002**
Skiena, Steven S. *see* **Pemmaraju, Sriram V.**
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— (*with* Verschelde, Jan; Wampler, Charles W.) Numerical factorization of multivariate complex polynomials. (English summary) **2005i:13038**
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Yazıcı, Ali (*with* Ergenç, Tanıl; Altas, Irfan) Romberg integration: a symbolic approach with Mathematica. (English summary) (*see* **2005c:00014**)
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Ziegler, Martin[2] Quasi-optimal arithmetic for quaternion polynomials. (English summary) (*see* **2005c:68004**)
Ziegler, Volker *see* **Heuberger, Clemens et al., 2005h:11070**
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Zobnin, Alekseĭ Igor'evich Generalized reduction in a ring of differential polynomials. (Russian. Russian summary) **2005h:12012**

Items listed otherwise than by author

ISSAC 2004 ★ ISSAC 2004. **2005i:68002**
Santander ★ ISSAC 2004. **2005i:68002**

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Andersson, Mattias (*with* Gudmundsson, Joachim; Levcopoulos, Christos) Chips on wafers (extended abstract). (English summary) (*see* **2005b:68005**)
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Charikar, Moses S. (*with* Kleinberg, Jon; Kumar, S. Ravi; Rajagopalan, Sridhar; Sahai, Amit; Tomkins, Andrew) Minimizing wirelength in zero and bounded skew clock trees. (English summary) **2005d:68156**
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— (*with* Butman, Ayelet; Crochemore, Maxime; Landau, Gad M.; Schaps, Mary E.) Two-dimensional pattern matching with rotations. (English summary) **2005e:68249**
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— (*with* Eğecioğlu, Ömer) Dictionary look-up within small edit distance. (English summary) **2005a:68047**
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Breimer, Eric A. (*with* Goldberg, Mark K.; Lim, Darren T.) A learning algorithm for the longest common subsequence problem. (English summary)

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— (*with* Karloff, Howard; Kenyon, Claire; Reingold, Nick; Thorup, Mikkel) OPT versus LOAD in dynamic storage allocation. (English summary) **2005b:68122**

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Charikar, Moses S. (*with* Indyk, Piotr; Panigrahy, Rina) New algorithms for subset query, partial match, orthogonal range searching, and related problems. (English summary) (*see* **2005a:68008**)

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— (*with* Fung, Stanley P. Y.) Improved competitive algorithms for online scheduling with partial job values. (English summary) **2005d:68039**

— *see also* **Fung, Stanley P. Y. et al.**

Chrobak, Marek (*with* Sgall, Jiří) The weighted 2-server problem. (English summary) **2005g:68038**

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Díaz, Josep (*with* Serna, Maria José; Wormald, Nicholas C.) Computation of the bisection width for random d-regular graphs. (English summary) (*see* **2005d:68010**)

Dietz, Paul F. (*with* Seiferas, Joel I.; Zhang, Ju) A tight lower bound for online monotonic list labeling. (English summary) **2005m:68045**

Ding, Guoli *see* **Chen, Peter P., 2005e:68055**

Drineas, Petros *see* **Akcoglu, Karhan et al., 2005h:91094**

Drmota, Michael (*with* Szpankowski, Wojciech) Special issue on analysis of algorithms [8th Seminar].

— On Robson's convergence and boundedness conjectures concerning the height of binary search trees. (English summary) **2005g:68018**

Eğecioğlu, Ömer *see* **Arslan, Abdullah N., 2005a:68047** *and* **(2005a:68012)**

Eisenbrand, Friedrich (*with* Grandoni, Fabrizio[2]) On the complexity of fixed parameter clique and dominating set. (English summary) **2005e:05133**

Elmasry, Amr (*with* Fredman, Michael L.) Adaptive sorting and the information theoretic lower bound. (English summary) **2005c:68039**

Epstein, Leah (*with* Favrholdt, Lene M.) On-line maximizing the number of items packed in variable-sized bins. (English summary) (*see* **2005a:68012**)

— (*with* Imreh, Csanád; van Stee, Rob) More on weighted servers or FIFO is better than LRU. (English summary) (*see* **2005b:68019**)

— (*with* van Stee, Rob) Minimizing the maximum starting time on-line. (English summary) **2005h:68041**

— *see also* **Bach, Eric et al., 2005f:68051** *and* **Tan, Zhiyi et al., 2005k:90046**

Eres, Revital *see* **Butman, Ayelet et al., 2005f:68159**

Erlebach, Thomas *see* **Miyazawa, Hiroyuki, 2005b:68284** *and* **Adamy, Udo, (2005c:68005)**

Evans, David John[1] The generalised coupled alternating group explicit (CAGE) method. (English summary) (*see* **2005m:00007**)

Fagerberg, Rolf *see* **Brodal, Gerth Stølting et al., 2005a:68092** *and* **2005k:68037**
Faloutsos, Christos *see* **Wong, Angeline et al., 2005g:68201**
Fang, Bin Xing *see* **He, Long Tao et al., 2005i:68086**
Favrholdt, Lene M. *see* **Bach, Eric et al., 2005f:68051**; **Boyar, Joan et al.**, (**2005a:68012**); **Epstein, Leah**, (**2005a:68012**) *and* **Albers, Susanne et al.**, (**2005i:68004**)
Feige, Uriel (*with* Lovász, László; Tetali, Prasad) Approximating min sum set cover. (English summary) **2005e:68261**
Feigenbaum, Joan (*with* Kannan, Sampath; Zhang, Jian[6]) Computing diameter in the streaming and sliding-window models. (English summary) **2005g:68196**
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Fellows, Michael R. *see* **Alber, Jochen et al., 2005m:68093**
Fernández-Baca, David *see* **Sun, Fangting et al.**, (**2005a:68012**)
Fiala, Jiří (*with* Heggernes, Pinar; Kristiansen, Petter; Telle, Jan Arne) Generalized H-coloring and H-covering of trees. (English summary) **2005f:05057**
— (*with* Fishkin, Aleksei V.; Fomin, Fedor V.) On distance constrained labeling of disk graphs. (English summary) **2005e:68187**
Fiat, Amos (*with* Mendel, Manor) Better algorithms for unfair metrical task systems and applications. (English summary) **2005k:68225**
Fill, James Allen (*with* Flajolet, Philippe; Kapur, Nevin) Singularity analysis, Hadamard products, and tree recurrences. (English summary) **2005h:05012**
Finkelstein, Lev (*with* Markovitch, Shaul; Rivlin, Ehud) Optimal schedules for parallelizing anytime algorithms: the case of shared resources. (English summary) **2005h:68167**
Finocchi, Irene (*with* Panconesi, Alessandro; Silvestri, Riccardo) An experimental analysis of simple, distributed vertex coloring algorithms. (English summary) **2005f:68113**
Fishkin, Aleksei V. *see* **Fiala, Jiříet al., 2005e:68187** *and* **Caragiannis, Ioannis et al., 2005m:05206**
Flajolet, Philippe *see* **Fill, James Allen et al., 2005h:05012**
Flaxman, Abraham D. (*with* Gamarnik, David; Sorkin, Gregory B.) Embracing the giant component. (English summary) (*see* **2005d:68010**)
Fleischer, Lisa *see* **Iwata, Satoru et al., 2005m:90096**
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Franklin, W. Randolph Analysis of mass properties of the union of millions of polyhedra. (English summary) (*see* **2005i:65007**)
Frederiksen, Jens S. (*with* Larsen, Kim S.) Packet bundling. (English summary) (*see* **2005a:68002**)
Fredman, Michael L. *see* **Elmasry, Amr, 2005c:68039**
Fredriksson, Kimmo (*with* Navarro, Gonzalo; Ukkonen, Esko) Optimal exact and fast approximate two dimensional pattern matching allowing rotations. (English summary) (*see* **2005a:68009**)
— (*with* Navarro, Gonzalo) Average-optimal multiple approximate string matching. (English summary) (*see* **2005a:68010**)
— (*with* Mäkinen, Veli; Navarro, Gonzalo) Rotation and lighting invariant template matching. (English summary) (*see* **2005d:68010**)
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Frieze, Alan (*with* Kannan, Ravi; Vempala, Santosh S.) Fast Monte-Carlo algorithms for finding low-rank approximations. (English summary) **2005m:65006**
— On random symmetric travelling salesman problems. (English summary) **2005j:05082**
Fu, Wei (*with* Hon, Wing-Kai; Sung, Wing-Kin) On all-substrings alignment problems. (English summary) (*see* **2005a:05002**)
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Fujita, Satoshi On-line grid-packing with a single active grid. (English summary) (*see* **2005a:68012**)
Fujiwara, Hiroshi (*with* Iwama, Kazuo) Average-case competitive analyses for ski-rental problems. (English summary) (*see* **2005b:68004**)
Fung, Stanley P. Y. (*with* Chin, Francis Y. L.; Shen, Hong[2]) Online scheduling of unit jobs with bounded importance ratio. (English summary)
— *see also* **Chin, Francis Y. L., 2005a:90060** *and* **2005d:68039**
Gabow, Harold N. An ear decomposition approach to approximating the smallest 3-edge connected spanning subgraph of a multigraph. (English summary) **2005k:05226**
Gamarnik, David *see* **Coppersmith, Don et al., 2005c:68088** *and* **Flaxman, Abraham D. et al.**, (**2005d:68010**)
Gao, Yong (*with* Wu, Jun Feng[2]; Niewiadomski, Robert; Wang, Yang[4]; Chen, Zhi-Zhong; Lin, Guo-Hui) A space efficient algorithm for sequence alignment with inversions. (English summary) (*see* **2005a:05002**)
— *see also* **Che, Zhi-Zhong et al., 2005d:68142**
Garcia, Thierry (*with* Semé, David) A coarse-grained multicomputer algorithm for the longest repeated suffix ending at each point in a word. (English summary) (*see* **2005g:65009**)
Gibbons, Phillip B. *see* **Wong, Angeline et al., 2005g:68201**
Giel, Oliver (*with* Wegener, Ingo) Evolutionary algorithms and the maximum matching problem. (English summary) **2005c:68239**
— *see also* **Albers, Susanne et al.**, (**2005i:68004**)
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Gottlieb, Lee-Ad *see* **Cole, Richard et al., 2005j:68114**
Gramm, Jens (*with* Guo, Jiong; Hüffner, Falk; Niedermeier, Rolf) Automated generation of search tree algorithms for hard graph modification problems. (English summary) **2005a:68178**
— *see also* **Alber, Jochen et al., 2005b:68118**
Grandoni, Fabrizio[2] *see* **Eisenbrand, Friedrich, 2005e:05133** *and* **Chandran, L. Sunil, 2005g:68047**
Griffiths, Evan J. (*with* Orponen, Pekka) Optimization, block designs and No Free Lunch theorems. (English summary) **2005j:90068**
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Guo, Jiong *see* **Gramm, Jens et al., 2005a:68178** *and* **Alber, Jochen et al., 2005b:68118**
Guo, Junyi[2] (*with* Hwang, Frank K.) An almost-linear time and linear space algorithm for the longest common subsequence problem. (English summary) **2005k:92043**
Gusfield, Dan Optimal, efficient reconstruction of root-unknown phylogenetic networks with constrained and structured recombination. (English summary) **2005k:92036**
György, András (*with* Linder, Tamás; Lugosi, Gábor) Efficient adaptive algorithms and minimax bounds for zero-delay lossy source coding. (English summary) **2005h:94030**
Hadjicostas, Petros (*with* Lakshmanan, K. B.) Bubble sort with erroneous comparisons. (English summary) **2005j:68025**
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Hamel, Angèle M. *see* **Biedl, Therese et al., 2005c:68283**
Han, Yijie Deterministic sorting in $O(n \log\log n)$ time and linear space. (English summary) (*see* **2005i:68004**)
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Hassin, Refael (*with* Levin, Asaf) Approximation algorithms for quickest spanning tree problems. (English summary) **2005f:68169**
He, Jun (*with* Yao, Xin) A study of drift analysis for estimating computation time of evolutionary algorithms. (English summary)
He, Long Tao (*with* Fang, Bin Xing; Yu, Xiang Zhan) A time optimal exact string matching algorithm. (Chinese. English and Chinese summaries)
— (*with* Fang, Bin Xing; Sui, Jie) The wide window string matching algorithm. (English summary) **2005i:68086**
He, Yong[1] (*with* Jiang, Yi-Wei) Preemptive semi-online scheduling with tightly-grouped processing times. (English summary)
— *see also* **Tan, Zhiyi et al., 2005k:90046**
Heggernes, Pinar *see* **Fiala, Jiříet al., 2005f:05057**
Heinrich, Stefan (*with* Kwas, Marek; Woźniakowski, Henryk) Quantum Boolean summation with repetitions in the worst-average setting. (English summary) **2005d:81087**
van der Helm, Peter A. Transparallel processing by hyperstrings. (English summary)
Hitczenko, Paweł (*with* Johnson, Jeremy R.; Huang, Hung-Jen) Distribution of WHT recurrences. (English summary) (*see* **2005d:00014**)
Holm, Jacob (*with* de Lichtenberg, Kristian; Thorup, Mikkel) Poly-logarithmic deterministic fully-dynamic algorithms for connectivity, minimum spanning tree, 2-edge, and biconnectivity. (English summary) **2005m:68164**
Hon, Wing-Kai *see* **Fu, Wei et al.**, (**2005a:05002**)
Hong, Dawei (*with* Man, Shushuang) Analysis of Web search algorithm hits. (English summary) **2005d:68141**
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Hu, Zhong (*with* Wan, Hong Hui) A novel generic fast Fourier transform pruning technique and complexity analysis. (English summary) **2005h:65272**
Huang, Ben Wen (*with* Lü, Yu Xiang; Liao, Xiang Jun) Quick trickle permutations (Chinese. English and Chinese summaries) **2005b:05007**
Huang, Hui *see* **Yang, Lei et al.**
Huang, Hung-Jen *see* **Hitczenko, Paweł et al.**, (**2005d:00014**)
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Huang, Si-ming Expected number of iterations of interior-point algorithms for linear programming. (English summary) **2005k:90208**
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Husfeldt, Thore *see* **Björklund, A.**, (**2005a:68008**)
Huson, Daniel H. (*with* Reinert, Knut; Myers, Eugene W.) The greedy path-merging algorithm for contig scaffolding. (English summary) **2005m:92022**
Hwang, Frank K. *see* **Guo, Junyi[2], 2005k:92043**
Hyyrö, Heikki (*with* Navarro, Gonzalo) Faster bit-parallel approximate string matching. (English summary) (*see* **2005a:68009**)
Icking, Christian (*with* Klein, Rolf; Langetepe, Elmar; Schuierer, Sven; Semrau, Ines) An optimal competitive strategy for walking in streets. (English summary) **2005e:68095**
Ilie, Lucian (*with* Yu, Sheng) Follow automata. (English summary) **2005a:68121**
Iliopoulos, Costas S. (*with* Mohamed, Manal; Mouchard, Laurent; Smyth, William F.; Perdikuri, Katerina G.; Tsakalidis, Athanasios K.) String regularities with don't cares. (English summary) **2005a:68168**
— *see also* **Crochemore, Maxime et al., 2005e:68251** *and* **(2005a:68009)**
Imreh, Csanád *see* **Epstein, Leah et al.**, (**2005b:68019**)
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Itoh, Kohei M. *see* **Van Meter, Rodney, 2005m:81070**
Ivansson, Lars (*with* Lagergren, Jens) Algorithms for RH mapping: new ideas and improved analysis. (English summary) **2005k:68094**
Iwama, Kazuo *see* **Fujiwara, Hiroshi**, (**2005b:68004**)
Iwata, Satoru (*with* Fleischer, Lisa; Fujishige, Satoru) A combinatorial strongly polynomial algorithm for minimizing submodular functions. (English summary) **2005m:90096**
Jacobson, Sheldon H. (*with* Yücesan, Enver) Global optimization performance measures for generalized hill climbing algorithms. (English summary) **2005e:90166**
Jägersküpper, Jens Analysis of a simple evolutionary algorithm for minimization in Euclidean spaces. (English summary) (*see* **2005b:68008**)
Jansen, Klaus (*with* Solis-Oba, Roberto; Sviridenko, M. I.) Makespan minimization in job shops: a linear time approximation scheme. (English summary) **2005b:68287**
Jia, Weijia *see* **Chen, Jian-Er et al., 2005g:68178**
Jiang, Tao[1] *see* **Bach, Eric et al., 2005f:68051**
Jiang, Yi-Wei *see* **He, Yong[1]**
Johnsen, Jacob *see* **Aceto, Luca et al., 2005d:68059**
Johnson, Jeremy R. *see* **Hitczenko, Paweł et al.**, (**2005d:00014**)
Johnson, L. F. Tumble, a fast simple iteration algorithm for Fibonacci. (English summary) **2005b:11014**

Jonsson, Peter *see* **Dahllöf, Vilhelm et al., 2005b:68128** *and* **2005j:68055**
Juang, Tso-Bing (*with* Hsiao, Shen-Fu; Tsai, Ming-Yu) Para-CORDIC: parallel CORDIC rotation algorithm. (English summary) **2005e:94029**
Kacewicz, Bolesław Asymptotic setting (revisited): analysis of a boundary-value problem and a relation to a classical approximation result. (English summary) **2005h:65108**
Kaklamanis, Christos *see* **Caragiannis, Ioannis et al., 2005m:05206**
Kalyanasundaram, Bala (*with* Pruhs, Kirk R.) Minimizing flow time nonclairvoyantly. (English summary) **2005m:68025**
Kanj, Iyad A. *see* **Chen, Jian-Er et al., 2005g:68178**
Kannan, Ravi *see* **Frieze, Alan et al., 2005m:65006**
Kannan, Sampath *see* **Feigenbaum, Joan et al., 2005g:68196**
Kao, Ming-Yang (*with* Nolte, Andreas; Tate, Stephen R.) The risk profile problem for stock portfolio optimization (extended abstract). (*see* **2005i:68003**)
— *see also* **Akcoglu, Karhan et al., 2005h:91094**
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Kärkkäinen, Juha Computing the threshold for q-gram filters. (English summary) (*see* **2005a:68002**)
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Karp, Richard M. (*with* Kenyon, Claire) A gambling game arising in the analysis of adaptive randomized rounding. (English summary) **2005c:68288**
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Khanna, Sanjeev *see* **Chekuri, Chandra et al., 2005i:68009** *and* (**2005j:68008**)
Kieffer, John C. (*with* Szpankowski, Wojciech; Yang, En-Hui) Problems on sequences: information theory and computer science interface.
Kijima, Shuji (*with* Matsui, Tomomi) Polynomial time perfect sampling algorithm for two-rowed contingency tables. (English summary) **2005g:68191**
Kirsch, Adam *see* **Anagnostopoulos, Aris et al., 2005k:68014**
Klein, Rolf *see* **Icking, Christian et al., 2005e:68095**
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— *see also* **Charikar, Moses S. et al., 2005d:68156**
Knudsen, John *see* **Aceto, Luca et al., 2005d:68059**
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Koo, Chiu-Yuen (*with* Lam, Tak-Wah; Ngan, Tsuen-Wan Johnny; To, Kar-Keung) Extra processors versus future information in optimal deadline scheduling. (English summary) **2005h:90043**
Koutsoupias, Elias (*with* Taylor, David Scot) The CNN problem and other k-server variants. (English summary) **2005d:68041**
Kowalski, Dariusz R. (*with* Pelc, Andrzej) Faster deterministic broadcasting in ad hoc radio networks. (English summary) **2005m:68243**
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Krivelevich, Michael *see* **Alon, Noga et al., 2005c:68285**
Krumke, Sven Oliver (*with* Laura, Luigi; Lipmann, Maarten; Marchetti-Spaccamela, Alberto; de Paepe, Willem E.; Poensgen, Diana; Stougie, Leen) Non-abusiveness helps: an $\mathcal{O}(1)$-competitive algorithm for minimizing the maximum flow time in the online traveling salesman problem. (English summary) (*see* **2005d:68005**)
Kumar, Amit[2] *see* **Chekuri, Chandra et al., 2005i:68009**
Kumar, S. Ravi *see* **Charikar, Moses S. et al., 2005d:68156**
Kwas, Marek (*with* Woźniakowski, Henryk) Sharp error bounds on quantum Boolean summation in various settings. (English summary) **2005d:81089**
— *see also* **Heinrich, Stefan et al., 2005d:81087**
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Lakshmanan, K. B. *see* **Hadjicostas, Petros, 2005j:68025**
Lam, Tak-Wah (*with* Ngan, Tsuen-Wan Johnny; To, Kar-Keung) Performance guarantee for EDF under overload. (English summary) **2005a:90070**
— (*with* Ngan, Tsuen-Wan Johnny; To, Kar-Keung) A tighter extra-resource analysis of online deadline scheduling. (English summary) **2005m:90039**
— *see also* **Koo, Chiu-Yuen et al., 2005h:90043** *and* **Chan, Ho-Leung et al., 2005k:68085**
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Langetepe, Elmar *see* **Icking, Christian et al., 2005e:68095**
Larsen, Kim S. *see* **Bach, Eric et al., 2005f:68051**; **Boyar, Joan et al.,** (**2005a:68012**) *and* **Frederiksen, Jens S.,** (**2005a:68002**)
Laura, Luigi *see* **Ausiello, G. et al., 2005c:90071** *and* **Krumke, Sven Oliver et al.,** (**2005d:68005**)
Lecroq, Thierry *see* **Crochemore, Maxime et al.,** (**2005a:68009**)
Lee, Chuan-Min (*with* Hung, Ling-Ju; Chang, Maw-Shang; Shen, Chia-Ben; Tang, Chuan Yi) An improved algorithm for the maximum agreement subtree problem. (English summary) **2005k:68217**
Lee, Jae-Ha Online deadline scheduling: team adversary and restart. (English summary) **2005d:90051**
Lesort, C. *see* **Chernov, Nikolai I. et al., 2005b:65012**
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— *see also* **Cole, Richard et al., 2005j:68114**; **Amir, Amihood et al.,** (**2005b:68005**); (**2005b:68005**) *and* (**2005b:68008**)
Li, Ming[1] (*with* Ma, Bin; Wang, Lu Sheng) Near optimal multiple alignment within a band in polynomial time. (*see* **2005i:68003**)
Li, Minming (*with* Huang, Shawn L.; Sun, Xiao Ming[2]; Huang, Xiao) Performance evaluation for energy efficient topologic control in ad hoc wireless networks. (English summary) **2005d:68017**
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Liao, Xiang Jun *see* **Huang, Ben Wen et al., 2005b:05007**
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Linder, Tamás *see* **György, András et al., 2005h:94030**
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Lipmann, Maarten (*with* Lu, Xi Wen; de Paepe, Willem E.; Sitters, René A.; Stougie, Leen) On-line dial-a-ride problems under a restricted information model. (English summary) (*see* **2005c:68002**)
— (*with* Lu, Xi Wen; de Paepe, Willem E.; Sitters, René A.; Stougie, Leen) On-line dial-a-ride problems under a restricted information model. (English summary) **2005f:68037**
— *see also* **Krumke, Sven Oliver et al.,** (**2005d:68005**)
Litsyn, Simon *see* **Alon, Noga et al., 2005c:68285**
Liu, James Nga-Kwok *see* **Ma, Weimin et al.,** (**2005a:68012**)
Liu, Xiao Wen (*with* Zhu, Da Ming; Ma, Shao Han; Li, Zi Mao; Wang, Lu Sheng) An $O(n^2)$ algorithm for sorting oriented genomes by translocations. (Chinese. English and Chinese summaries)
— *see also* **Wang, Lu Sheng et al., 2005k:68218**
Liu, Zhaohui *see* **Cheng, T. C. Edwin et al., 2005k:90034**
López-Ortiz, Alejandro *see* **Biedl, Therese et al., 2005c:68283**
Loreto, Vittorio *see* **Baronchelli, Andrea et al., 2005m:68061**
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Lu, Xi Wen *see* **Lipmann, Maarten et al., 2005f:68037** *and* (**2005c:68002**)
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Lugosi, Gábor *see* **György, András et al., 2005h:94030**
Ma, Bin *see* **Li, Ming[1] et al.,** (**2005i:68003**)
Ma, Shao Han *see* **Wang, Lu Sheng et al., 2005k:68218** *and* **Liu, Xiao Wen et al.**
Ma, Weimin (*with* Xu, Yinfeng; You, Jane; Liu, James Nga-Kwok; Wang, Kanliang) New results on the k-truck problem. (English summary) (*see* **2005a:68012**)
Madsen, Bolette Ammitzbøll *see* **Byskov, Jesper Makholm et al., 2005i:68029**
Mahmoud, Hosam M. (*with* Tsukiji, Tatsuie) Limit laws for terminal nodes in random circuits with restricted fan-out: a family of graphs generalizing binary search trees. (English summary) **2005g:05138**
Mäkinen, Veli *see* **Fredriksson, Kimmo et al.,** (**2005d:68010**)
Malashonok, G. I. (*with* Satina, E. S.) Fast multiplication and sparse structures. (Russian. Russian summary)
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Marron, Mark (*with* Swenson, Krister M.; Moret, Bernard M. E.) Genomic distances under deletions and insertions. (English summary) **2005d:92015**
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Mount, David M. (*with* Netanyahu, Nathan S.; Zuck, E.) Analyzing the number of samples required for an approximate Monte-Carlo LMS line estimator. (English summary) (*see* **2005c:62006**)
Muthukrishnan, S. Muthu (*with* Şahinalp, Süleyman Cenk) Approximate nearest neighbors and sequence comparison with block operations. (*see* **2005i:68003**)
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— A new approach to all-pairs shortest paths on real-weighted graphs. (English summary) **2005b:05210**
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— *see also* **Roditty, Liam, 2005i:68066**

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Johnson, Jeremy R. (*with* Breitzman, Anthony F.) Automatic derivation and implementation of fast convolution algorithms. (English summary) **2005e:65220**
Lin, Yaw-Ling (*with* Jiang, Tao[1]; Chao, Kun-Mao) Efficient algorithms for locating the length-constrained heaviest segments, with applications to biomolecular sequence analysis (extended abstract). (English summary) (*see* **2005b:68019**)
Möller, Bodo Improved techniques for fast exponentiation. (English summary) (*see* **2005b:94052**)
(Resende, Maurício G. C.) *see* **Metaheuristics: computer decision-making, 2005b:90007**
Sofroniou, Mark (*with* Spaletta, Giulia) Precise numerical computation. (English summary) **2005m:65102**
(de Sousa, Jorge Pinho) *see* **Metaheuristics: computer decision-making, 2005b:90007**
Spaletta, Giulia *see* **Sofroniou, Mark, 2005m:65102**
Tezuka, Shu Polynomial arithmetic analogue of Hickernell sequences. (English summary) (*see* **2005b:65002**)
(Viana, Ana) *see* **Metaheuristics: computer decision-making, 2005b:90007**
Wu, Huapeng (*with* Hasan, M. Anwarul; Blake, Ian F.) Speeding up RSA and elliptic curve systems by choosing suitable moduli. (English summary) **2005e:68040**

Items listed otherwise than by author

Metaheuristics: computer decision-making ★ Metaheuristics: computer decision-making. **2005b:90007**
Porto ★ Metaheuristics: computer decision-making. **2005b:90007**

70–XX Mechanics of particles and systems {For relativistic mechanics, see 83A05 and 83C10; for statistical mechanics, see 82–XX.}

70–01 Instructional exposition (textbooks, tutorial papers, etc.)

Meirovitch, Leonard ★ Methods of analytical dynamics. **2005a:70001**
Spivak, Michael David ★ Elementary mechanics from a mathematician's viewpoint. **2005d:70001**
Zhuravlëv, V. F. ★ Основы теоретической механики. (Russian. Russian summary) [Foundations of theoretical mechanics] **2005d:70002**

70–02 Research exposition (monographs, survey articles)

Items with secondary classifications in 70–02

Gladwell, Graham M. L. ★ Inverse problems in vibration. **2005g:74059**
Zhang, Shi Qing Central configurations for n-body problems. (English summary)

70–03 Historical (must also be assigned at least one classification number from Section 01)

Arminjon, Mayeul Gravity as Archimedes' thrust and a bifurcation in that theory. (English summary)
Bailey, C. D. Hamilton and the law of varying action revisited. (English summary) **2005h:70001**
Capecchi, Danilo (*with* Drago, Antonino) On Lagrange's history of mechanics. (English summary) **2005m:70001**
Drago, Antonino *see* **Capecchi, Danilo**, **2005m:70001**
Groetsch, Charles W. Tartaglia's bet. (English summary)
(Hooke, Robert) *see* **Nauenberg, Michael**, **2005m:70002**
Nauenberg, Michael Robert Hooke's seminal contribution to orbital dynamics. (English summary) **2005m:70002**
Panza, Marco Mathematisation of the science of motion and the birth of analytical mechanics: a historiographical note. (*see* **2005a:00015**)
Roche, John What is mass? (English summary)

Items with secondary classifications in 70–03

Barot, Emmanuel Le rasoir hégélien: déconstruire les forces suspectes de la mécanique newtonienne. [Hegel's razor: deconstructing the suspect forces of Newtonian mechanics]
Blay, Michel Mathematization of the science of motion at the turn of the seventeenth and eighteenth centuries: Pierre Varignon. (*see* **2005k:01017**)
Büttner, Jochen (*with* Damerow, Peter; Renn, Jürgen) Galileo's unpublished treatises. A case study on the role of shared knowledge in the emergence and dissemination of an early modern "new science". (*see* **2005k:01017**)
Caparrini, Sandro The theory of vectors at the beginning of the 19th century.
Chatzis, Konstantinos La réception de la statique graphique en France durant le dernier tiers du XIXe siècle. (English and French summaries) [France's reception of graphic statics at the end of the nineteenth century] **2005f:01009**
Chinenova, V. N. (*with* Yakovlev, V. I.) The contribution of P. Varignon to the science of motion. (Russian. English and Russian summaries) (*see* **2005b:01005**)
Ciarcià, M. *see* **Miele, Angelo et al.**, **2005g:70047**
Cohen, H. Floris A historical-analytical framework for the controversies over Galileo's conception of motion. (*see* **2005k:01017**)
(Cohen, I. Bernard) *see* **Cambridge companion to Newton**, **2005f:01008**
Damerow, Peter *see* **Büttner, Jochen et al.**, (**2005k:01017**)
(Descartes, René) *see* **Shea, William R.**, (**2005k:01017**)
Erlichson, Herman Huygens and Newton on motion in a cycloid. (English summary) **2005g:01016**
(Euler, Leonhard) *see* **González Redondo, Francisco A.**, **2005m:01016**
Fraser, Doreen L. The third law in Newton's *Waste book* (or, the road less taken to the second law). (English summary) **2005k:01015**
Gabbey, Alan What was "mechanical" about "the mechanical philosophy"? (*see* **2005k:01017**)
(Galilei, Galileo) *see* **Shea, William R.**, (**2005k:01017**) *and* **Büttner, Jochen et al.**, (**2005k:01017**)
(Gassendi, Pierre) *see* **Palmerino, Carla Rita**, (**2005k:01017**)
Giusti, Enrico A master and his pupils: theories of motion in the Galilean school. (*see* **2005k:01017**)
Goldstein, Bernard R. (*with* Hon, Giora) Kepler's move from orbs to orbits: documenting a revolutionary scientific concept. (English summary)
González Redondo, Francisco A. Leonhard Euler's contributions to the mathematization of the quantities and laws of mechanics, 1736–1765. (Spanish. English and Spanish summaries) **2005m:01016**
— Algebraic expression of Fundamental Law of Newtonian dynamics in Euler's mechanics. (Spanish. English summary) **2005b:01032**
Hauser, Kai (*with* Lang, Reinhard) On the geometrical and physical meaning of Newton's solution to Kepler's problem. **2005a:70009**
(Hegel, G.-W.-F.) *see* **Barot, Emmanuel**
(Hilbert, David[1]) *see* **Kondrat'ev, E. F.**, (**2005f:00008**)
(Hobbes, Thomas) *see* **Leijenhorst, Cees**, (**2005k:01017**)
Hon, Giora *see* **Goldstein, Bernard R.**
Hooper, Wallace Seventeenth-century theories of the tides as a gauge of scientific change. (*see* **2005k:01017**)
(Huygens, Christiaan) *see* **Vilain, Christiane**, (**2005k:01017**)
(Kepler, Johannes) *see* **Goldstein, Bernard R.**
Kondrat'ev, E. F. David Hilbert and the axiomatization of physics. (Russian. English and Russian summaries) (*see* **2005f:00008**)
Kul'vetsas, L. L. Systematization of the concept of acceleration in the works of Newton. (Russian. English and Russian summaries) **2005g:01018**
Lang, Reinhard *see* **Hauser, Kai**, **2005a:70009**
Leijenhorst, Cees Hobbes and the Galilean law of free fall. (*see* **2005k:01017**)
Maierù, Luigi Mécanique et géométrie dans les écrits de mécanique de John Wallis. Le calcul du centre de gravité. (English and French summaries) [Mechanics and geometry in John Wallis' mechanical writings. Calculating the center of gravity] **2005f:01006**
Mathwig, J. *see* **Miele, Angelo et al.**, **2005g:70047**
Miele, Angelo (*with* Ciarcià, M.; Mathwig, J.) Reflections on the Hohmann transfer. (English summary) **2005g:70047**
(Newton, Isaac) *see* **Pourciau, Bruce**, **2005d:01012**; **Cambridge companion to Newton**, **2005f:01008**; **Kul'vetsas, L. L.**, **2005g:01018** *and* **Fraser, Doreen L.**, **2005k:01015**
Palmerino, Carla Rita Galileo's theories of free fall and projectile motion as interpreted by Pierre Gassendi. (*see* **2005k:01017**)
— *see also* **Reception of the Galilean science of motion in seventeenth-century Europe**, **2005k:01017**
Pourciau, Bruce The importance of being equivalent: Newton's two models of one-body motion. (English summary) **2005d:01012**
Radelet de Grave, Patricia Historiographie de la mécanique de 1975 à 2000: une étude statistique. (English and French summaries) [Histography of mechanics from 1975 to 2000: a statistical study]
Renn, Jürgen *see* **Büttner, Jochen et al.**, (**2005k:01017**)
Romo, José Did Galileo do experiments? (Spanish. English and Spanish summaries)
Roux, Sophie Cartesian mechanics. (*see* **2005k:01017**)
Shea, William R. The "rational" Descartes and the "empirical" Galileo. (*see* 2005k:01017)
(Smith, George E.) *see* **Cambridge companion to Newton**, **2005f:01008**
(Thijssen, J. M. M. H.) *see* **Reception of the Galilean science of motion in seventeenth-century Europe**, **2005k:01017**
(Varignon, Pierre) *see* **Chinenova, V. N.**, (**2005b:01005**) *and* **Blay, Michel**, (**2005k:01017**)
Vilain, Christiane Christiaan Huygens' Galilean mechanics. (*see* **2005k:01017**)
(Wallis, John) *see* **Maierù, Luigi**, **2005f:01006**
Yakovlev, V. I. *see* **Chinenova, V. N.**, (**2005b:01005**)

Items listed otherwise than by author

Biography:
Euler, Leonhard *see* **González Redondo, Francisco A.**, **2005m:01016**
Cambridge companion to Newton ★ The Cambridge companion to Newton. **2005f:01008**
Reception of the Galilean science of motion in seventeenth-century Europe ★ The reception of the Galilean science of motion in seventeenth-century Europe. **2005k:01017**

70–04 Explicit machine computation and programs (not the theory of computation or programming)

Chekanov, N. A. *see* **Ukolov, Yu. A. et al.**, **2005j:70001**
Gusev, Aleksandr A. *see* **Ukolov, Yu. A. et al.**, **2005j:70001**
Rostovtsev, V. A. *see* **Ukolov, Yu. A. et al.**, **2005j:70001**
Ukolov, Yu. A. (*with* Chekanov, N. A.; Gusev, Aleksandr A.; Rostovtsev, V. A.; Vinitskiĭ, S. I.; Uwano, Yoshio) A REDUCE program for the normalization of polynomial Hamiltonians. (English summary) **2005j:70001**
Uwano, Yoshio *see* **Ukolov, Yu. A. et al.**, **2005j:70001**
Vinitskiĭ, S. I. *see* **Ukolov, Yu. A. et al.**, **2005j:70001**

Items with secondary classifications in 70–04

Bálint, Attila *see* **Szenkovits, Ferenc et al.**, **2005h:70003**
Bertolazzi, Enrico (*with* Biral, F.; Da Lio, M.) Symbolic-numeric indirect method for solving optimal control problems for large multibody systems. (English summary)
Biral, F. *see* **Bertolazzi, Enrico et al.**
Broer, Henk W. (*with* Hoveijn, Igor; Lunter, Gerton; Vegter, Gert) ★ Bifurcations in Hamiltonian systems. **2005d:37110**
Cooley, Bryan B. (*with* Newton, Paul K.) Random number generation from chaotic impact collisions. (English summary) **2005f:70032**
Csillik, Iharka *see* **Szenkovits, Ferenc et al.**, **2005h:70003**
Da Lio, M. *see* **Bertolazzi, Enrico et al.**
Fisette, Paul *see* **Samin, Jean-Claude**, **2005k:70024**
Glumov, V. M. (*with* Zemlyakov, S. D.; Rutkovskiĭ, V. Yu.; Sukhanov, V. M.) Some peculiarities of computer-aided derivation of equations of motion for a coupling of mechanical systems and their decomposition. (Russian. Russian summary) **2005m:70092**
Hoveijn, Igor *see* **Broer, Henk W. et al.**, **2005d:37110**
Koussoulas, Nick T. (*with* Skiadas, Photis) Symbolic computation for mobile robot path planning. (English summary) **2005e:70002**
Lunter, Gerton *see* **Broer, Henk W. et al.**, **2005d:37110**
Makó, Zoltán *see* **Szenkovits, Ferenc et al.**, **2005h:70003**
Mironov, S. V. Determination of the stationary solutions of the Newtonian annular restricted fourteen-body problem. (Russian. Russian summary) **2005k:70033**
Newton, Paul K. *see* **Cooley, Bryan B.**, **2005f:70032**
Packel, Edward W. (*with* Yuen, David S.) Projectile motion with resistance and the Lambert W function. **2005f:70023**
Persson, Fredrik (*with* Rauch-Wojciechowski, Stefan) Triangular Newton equations with maximal number of integrals of motion. (English summary) **2005k:37129**
Rauch-Wojciechowski, Stefan *see* **Persson, Fredrik**, **2005k:37129**
Rutkovskiĭ, V. Yu. *see* **Glumov, V. M. et al.**, **2005m:70092**
Samin, Jean-Claude (*with* Fisette, Paul) ★ Symbolic modeling of multibody systems. **2005k:70024**
Shirazi, Kourosh H. Synthesis of linkages with four points of accuracy using Maple-V. (English summary)
Skiadas, Photis *see* **Koussoulas, Nick T.**, **2005e:70002**
Sukhanov, V. M. *see* **Glumov, V. M. et al.**, **2005m:70092**

Szenkovits, Ferenc (*with* Makó, Zoltán; Csillik, Iharka; Bálint, Attila) ★ Mechanikai rendszerek számítógépes modellezése. (Hungarian. English and Hungarian summaries) [Computer modelling of mechanical systems] **2005h:70003**
Vegter, Gert *see* **Broer, Henk W. et al., 2005d:37110**
Yu, Pei[1] (*with* Zhu, Songhui) Computation of the normal forms for general M-DOF systems using multiple time scales. I. Autonomous systems. (English summary) **2005k:34153**
Yuen, David S. *see* **Packel, Edward W., 2005f:70023**
Zemlyakov, S. D. *see* **Glumov, V. M. et al., 2005m:70092**
Zhu, Songhui *see* **Yu, Pei**[1], **2005k:34153**

Items listed otherwise than by author

Lecture Notes in Mathematics *see* **Broer, Henk W. et al., 2005d:37110**

70–05 Experimental work

Items with secondary classifications in 70–05

Champneys, Alan R. *see* **Piiroinen, P. T. et al., 2005b:70027**
Piiroinen, P. T. (*with* Virgin, L. N.; Champneys, Alan R.) Chaos and period-adding: experimental and numerical verification of the grazing bifurcation. (English summary) **2005b:70027**
Virgin, L. N. *see* **Piiroinen, P. T. et al., 2005b:70027**

70–06 Proceedings, conferences, collections, etc.

Bestle, Dieter *see* **Eberhard, Peter**
(Delgado Fernández, Joaquín) *see* **New advances in celestial mechanics and Hamiltonian systems, 2005b:70001**
Eberhard, Peter (*with* Bestle, Dieter) Preface [Euromech 442 Colloquium on "Optimization of Mechanical Systems"].
Issac, K. Kurien *see* **Seth, Bhartendu**
(Lacomba, Ernesto A.) *see* **New advances in celestial mechanics and Hamiltonian systems, 2005b:70001**
(Llibre, Jaume) *see* **New advances in celestial mechanics and Hamiltonian systems, 2005b:70001**
Maciejewski, Andrzej J. *see* **Stevens, Bonnie A.**
Morbidelli, Alessandro (*with* Nicholson, Phil) Preface [Papers from the XXXVth Annual Meeting of the Division of Dynamic Astronomy of the American Astronomical Society].
Nicholson, Phil *see* **Morbidelli, Alessandro**
(Palacián, Jesús F.) *see* **Proceedings: Conference on Celestial Mechanics, 6th, 2005g:70001**
(Pérez-Chavela, E.) *see* **New advances in celestial mechanics and Hamiltonian systems, 2005b:70001**
(Rumyantsev, V. V.) *see* **Problems in the investigation of the stability and stabilization of motion, 2005c:70001**
Seth, Bhartendu (*with* Issac, K. Kurien) Preface [NaCoMM-99 The National Conference on Machines and Mechanisms].
Stevens, Bonnie A. (*with* Maciejewski, Andrzej J.) Preface [From order to disorder in gravitational N-body dynamical systems].
(Yanguas, Patricia) *see* **Proceedings: Conference on Celestial Mechanics, 6th, 2005g:70001**

Items listed otherwise than by author

Guanajuato ★ New advances in celestial mechanics and Hamiltonian systems. **2005b:70001**
New advances in celestial mechanics and Hamiltonian systems ★ New advances in celestial mechanics and Hamiltonian systems. **2005b:70001**
Problems in the investigation of the stability and stabilization of motion ★ Задачи исследования устойчивости и стабилизации движения. (Russian) [Problems in the investigation of the stability and stabilization of motion] **2005c:70001**
Proceedings:
Conference on Celestial Mechanics, 6th ★ Actas de las VI Jornadas de Mecánica Celeste. [Proceedings of the 6th Conference on Celestial Mechanics] **2005g:70001**
Señorío de Bértiz ★ Actas de las VI Jornadas de Mecánica Celeste. [Proceedings of the 6th Conference on Celestial Mechanics] **2005g:70001**

Items with secondary classifications in 70–06

Delshams, Amadeu (*with* Giorgilli, Antonio) Hamiltonian systems and applications [Preface].
Deng, Zi Chen *see* **Zhang, Su Ying, 2005a:70026**
(Fernández Núñez, J.) *see* **Proceedings: Workshop on Geometry and Physics, XI Fall, 2005i:53002**
(Fuertes, Wifredo García) *see* **Proceedings: Workshop on Geometry and Physics, XI Fall, 2005i:53002**
Giorgilli, Antonio *see* **Delshams, Amadeu**
(Harnad, John) *see* **Superintegrability in classical and quantum systems, 2005g:00018**
(Miller, Willard, Jr.) *see* **Superintegrability in classical and quantum systems, 2005g:00018**
(Pogosyan, George S.) *see* **Superintegrability in classical and quantum systems, 2005g:00018**
(Rodríguez, Miguel Angel[2]**)** *see* **Superintegrability in classical and quantum systems, 2005g:00018**
(Skrypnik, Igor′ Vladimirovich) *see* **Proceedings: Institute of Applied Mathematics and Mechanics, Vol. 7, 2005m:00006**
(Tempesta, Piergiulio) *see* **Superintegrability in classical and quantum systems, 2005g:00018**
Udwadia, Firdaus E. Preface [Special issue: 12th International Workshop on Dynamics and Control].
(Viña Escalar, A.) *see* **Proceedings: Workshop on Geometry and Physics, XI Fall, 2005i:53002**
(Winternitz, Pavel) *see* **Superintegrability in classical and quantum systems, 2005g:00018**
Zhang, Su Ying (*with* Deng, Zi Chen) Lie group integration for constrained generalized Hamiltonian system with dissipation by projection method. (Chinese. English and Chinese summaries) **2005a:70026**

Items listed otherwise than by author

Dynamical systems. Part I ★ Dynamical systems. Part I. **2005a:37002**
Montréal, QC ★ Superintegrability in classical and quantum systems. **2005g:00018**
Oviedo ★ Proceedings of the XI Fall Workshop on Geometry and Physics. **2005i:53002**
Pisa ★ Dynamical systems. Part I. **2005a:37002**
Proceedings:
Institute of Applied Mathematics and Mechanics, Vol. 7 ★ Труды Института Прикладной Математики и Механики. Том 7. (Russian) [Proceedings of the Institute of Applied Mathematics and Mechanics. Vol. 7] **2005m:00006**
Workshop on Geometry and Physics, XI Fall ★ Proceedings of the XI Fall Workshop on Geometry and Physics. **2005i:53002**
Superintegrability in classical and quantum systems ★ Superintegrability in classical and quantum systems. **2005g:00018**

70–08 Computational methods

Abad, Alberto J. *see* **San-Juan, Juan Félix, (2005c:00014)**
Antohe, V. (*with* Gladwell, Ian) Performance of variable step size methods for solving model separable Hamiltonian systems. (English summary) **2005j:70002**
Au, F. T. K. *see* **Wang, Meng Fu**
Bálint, Attila *see* **Szenkovits, Ferenc et al., 2005h:70003**
Berry, Matthew M. (*with* Healy, Liam M.) Implementation of Gauss-Jackson integration for orbit propagation. (English summary) **2005m:70003**
Betsch, Peter A unified approach to the energy-consistent numerical integration of nonholonomic mechanical systems and flexible multibody dynamics. (English summary) **2005f:70001**
Bui, Q. V. Energy conserving and dissipative time finite element schemes for N-body stiff problems. (English summary) **2005e:70001**
— Modified Newmark family for non-linear dynamic analysis. (English summary) **2005f:70002**
Cartmell, Matthew P. *see* **Forehand, David I. M. et al.**
Clemente-Gallardo, J. *see* **Talasila, V. et al., 2005k:70002**
Csillik, Iharka *see* **Szenkovits, Ferenc et al., 2005h:70003**
Endres, L. *see* **Krysl, P., 2005m:70004**
Forehand, David I. M. (*with* Khanin, Raya; Cartmell, Matthew P.) A Lagrangian multibody code for deriving the symbolic state-space equations of motion for open-loop systems containing flexible beams. (English summary)
Funes, Francisco Javier *see* **Rodríguez, José Ignacio et al., 2005g:70002**
García de Jalón, Javier *see* **Rodríguez, José Ignacio et al., 2005g:70002**
Gladwell, Ian *see* **Antohe, V., 2005j:70002**
Greenspan, Donald ★ N-body problems and models. **2005h:70002**
Hairer, Ernst (*with* Lubich, Christian) Symmetric multistep methods over long times. (English summary) **2005k:70001**
Healy, Liam M. *see* **Berry, Matthew M., 2005m:70003**
Hoppe, Ronald H. W. *see* **Revnic, Adrian et al.**
Irtegov, V. D. (*with* Titorenko, T. N.) Computer algebra and investigation of invariant manifolds of mechanical systems. (English summary) **2005f:70003**
Jézéquel, L. *see* **Sinou, J.-J. et al., 2005g:70003**
Jiménez, José Manuel *see* **Rodríguez, José Ignacio et al., 2005g:70002**
Kamberaj, H. (*with* Low, R. J.; Neal, M. P.) Symplectic and time reversible integrator for rigid bodies. (English summary) **2005b:70002**
Khanin, Raya *see* **Forehand, David I. M. et al.**
Kim, Hong Oh *see* **Kim, Hyoung Seok et al., 2005b:70003**
Kim, Hyoung Seok (*with* Kim, Hong Oh; Shin, Sung Yong) Collision detection algorithm of a continuous type using spherical extreme vertex diagrams. (English summary) **2005b:70003**
Krysl, P. (*with* Endres, L.) Explicit Newmark/Verlet algorithm for time integration of the rotational dynamics of rigid bodies. (English summary) **2005m:70004**
Low, R. J. *see* **Kamberaj, H. et al., 2005b:70002**
Lubich, Christian *see* **Hairer, Ernst, 2005k:70001**
Ma, Hang (*with* Qin, Qing-Hua) A second-order scheme for integration of one-dimensional dynamic analysis. (English summary) **2005j:70003**
Makó, Zoltán *see* **Szenkovits, Ferenc et al., 2005h:70003**
Minesaki, Yukitaka (*with* Nakamura, Yoshimasa) A new conservative numerical integration algorithm for the three-dimensional Kepler motion based on the Kustaanheimo-Stiefel regularization theory. (English summary) **2005a:70002**
Nakamura, Yoshimasa *see* **Minesaki, Yukitaka, 2005a:70002**
Neal, M. P. *see* **Kamberaj, H. et al., 2005b:70002**
Qin, Qing-Hua *see* **Ma, Hang, 2005j:70003**
Revnic, Adrian (*with* Hoppe, Ronald H. W.; Sibona, Gustavo) The numerical analysis of some systems of differential equations arising from molecular dynamics. (English summary)
Rodríguez, José Ignacio (*with* Jiménez, José Manuel; Funes, Francisco Javier; García de Jalón, Javier) Recursive and residual algorithms for the efficient numerical integration of multi-body systems. (English summary) **2005g:70002**
San-Juan, Juan Félix (*with* Abad, Alberto J.) Symbolic solution of Kepler's generalized equation. (English summary) (*see* **2005c:00014**)
van der Schaft, A. J. *see* **Talasila, V. et al., 2005k:70002**
Shin, Sung Yong *see* **Kim, Hyoung Seok et al., 2005b:70003**
Sibona, Gustavo *see* **Revnic, Adrian et al.**
Sinou, J.-J. (*with* Thouverez, F.; Jézéquel, L.) Methods to reduce non-linear mechanical systems for instability computation. (English summary) **2005g:70003**
Szenkovits, Ferenc (*with* Makó, Zoltán; Csillik, Iharka; Bálint, Attila) ★ Mechanikai rendszerek számítógépes modellezése. (Hungarian. English and Hungarian summaries) [Computer modelling of mechanical systems] **2005h:70003**
Talasila, V. (*with* Clemente-Gallardo, J.; van der Schaft, A. J.) Geometry and Hamiltonian mechanics on discrete spaces. (English summary) **2005k:70002**
Thouverez, F. *see* **Sinou, J.-J. et al., 2005g:70003**
Titorenko, T. N. *see* **Irtegov, V. D., 2005f:70003**

Wang, Meng Fu (*with* Au, F. T. K.) Higher-order mixed method for time integration in dynamic structural analysis.

Items with secondary classifications in 70–08

Aleksandrov, A. Yu. (*with* Zhabko, A. P.) Preservation of asymptotic stability in the transition from differential equations to difference equations. (English summary) **2005g:37159**

Anastassi, Z. A. (*with* Simos, T. E.) An optimized Runge-Kutta method for the solution of orbital problems. (English summary)

Anitescu, Mihai (*with* Hart, Gary D.) A constraint-stabilized time-stepping approach for rigid multibody dynamics with joints, contact and friction. (English summary) **2005e:70007**

— (*with* Hart, Gary D.) A fixed-point iteration approach for multibody dynamics with contact and small friction. (English summary) **2005e:70008**

Arioli, Gianni Branches of periodic orbits for the planar restricted 3-body problem. (English summary) **2005m:70051**

Arnold, Martin *see* **Pfeiffer, Andreas, 2005k:37190**

Banajh, M. A. *see* **Sharaf, M. A.**

Bergman, Lawrence A. *see* **Lee, Young Sup et al., 2005m:70079**

Bertolazzi, Enrico (*with* Biral, F.; Da Lio, M.) Symbolic-numeric indirect method for solving optimal control problems for large multibody systems. (English summary)

Biral, F. *see* **Bertolazzi, Enrico et al.**

Blanes, Sergio (*with* Budd, Chris J.) Explicit adaptive symplectic (easy) integrators: a scaling invariant generalisation of the Levi-Civita and KS regularisations. (English summary) **2005f:70021**

Bloch, Anthony M. *see* **Sanyal, Amit K. et al., 2005j:70012**

Budd, Chris J. *see* **Blanes, Sergio, 2005f:70021**

Calvo Pinilla, M. Backward error analysis of numerical methods for ODEs and Lie-Hori perturbation theory. (English summary) **2005k:65116**

— (*with* Jay, Laurent O.; Montijano, Juan I.; Rández, Luis) Approximate compositions of a near identity map by multi-revolution Runge-Kutta methods. (English summary) **2005m:37200**

Cano, B. (*with* Durán Martín, Angel) A technique to improve the error propagation when integrating relative equilibria. (English summary) **2005e:70023**

Caps, H. (*with* Dorbolo, S.; Ponte, S.; Croisier, H.; Vandewalle, N.) Rolling and slipping motion of Euler's disk. (English summary)

Casciaro, Raffaele *see* **Garcea, Giovanni et al., 2005h:74035**

Caşu, Ioan *see* **Puta, Mircea et al., 2005f:70007**

Champneys, Alan R. *see* **Piiroinen, P. T. et al., 2005b:70027**

Chin, Siu A. (*with* Scuro, Sante R.) Exact evolution of time-reversible symplectic integrators and their phase errors for the harmonic oscillator. (English summary) **2005m:37201**

Chung, Chin Hyun *see* **Kim, Jin Ok et al.,** (**2005c:00014**) *and* (**2005c:00014**)

Ciccotti, Giovanni (*with* Kalibaeva, Galina) Deterministic and stochastic algorithms for mechanical systems under constraints. (English summary) **2005c:70015**

Contopoulos, G. *see* **Efthymiopoulos, C. et al., 2005f:70025**

Cotter, Colin John (*with* Reich, Sebastian) Adiabatic invariance and applications: from molecular dynamics to numerical weather prediction. (English summary) **2005g:37119**

Croisier, H. *see* **Caps, H. et al.**

Cveticanin, L. A new approach for solving a complex-valued differential equation. (English summary) **2005g:70042**

Da Lio, M. *see* **Bertolazzi, Enrico et al.**

Danilin, A. N. (*with* Snegovski, D. V.; Volkov-Bogorodsky, D. B.) On implicit algorithms of continuation method with applications to dynamic systems. (English summary) **2005d:65098**

Dixon, Matthew F. (*with* Reich, Sebastian) Symplectic time-stepping for particle methods. (English summary)

Doedel, Eusebius *see* **Muñoz-Almaraz, F. J. et al., 2005a:37104**

Dorbolo, S. *see* **Caps, H. et al.**

Dullin, Holger R. (*with* Fassò, Francesco) An algorithm for detecting directional quasi-convexity. (English summary) **2005h:37132**

— Poisson integrator for symmetric rigid bodies. (English summary) **2005k:37188**

Durán Martín, Angel *see* **Cano, B., 2005e:70023**

Efthymiopoulos, C. (*with* Giorgilli, Antonio; Contopoulos, G.) Nonconvergence of formal integrals. II. Improved estimates for the optimal order of truncation. (English summary) **2005f:70025**

Fassò, Francesco *see* **Dullin, Holger R., 2005h:37132**

Fetecau, R. C. (*with* Marsden, Jerrold E.; Ortiz, Michael; West, Matthew) Nonsmooth Lagrangian mechanics and variational collision integrators. (English summary) **2005e:37197**

Filip, Diana Andrada ★ Numerical methods in the dynamics of the solid-fluid system. **2005e:76014**

Flashner, Henryk (*with* Golat, Michael) Expanded point mapping analysis of periodic systems. (English summary) (*see* **2005b:93006**)

Formica, Giovanni *see* **Garcea, Giovanni et al., 2005h:74035**

Freire Macías, Emilio *see* **Muñoz-Almaraz, F. J. et al., 2005a:37104**

Galán-Vioque, J. *see* **Muñoz-Almaraz, F. J. et al., 2005a:37104**

Garcea, Giovanni (*with* Formica, Giovanni; Casciaro, Raffaele) A numerical analysis of infinitesimal mechanisms. (English summary) **2005h:74035**

García Orden, J. C. Analysis of joint clearances in multibody systems. (English summary) **2005m:70044**

Giorgilli, Antonio *see* **Efthymiopoulos, C. et al., 2005f:70025**

Glowinski, Roland (*with* Shiau, LieJune; Kuo, Ying Ming; Nasser, G.) The numerical simulation of friction constrained motions. I. One degree of freedom models. (English summary) **2005b:70018**

Golat, Michael *see* **Flashner, Henryk,** (**2005b:93006**)

Gómez, Gerard (*with* Marcote, M.; Mondelo, J. M.) The invariant manifold structure of the spatial Hill's problem. (English summary) **2005k:70035**

Gubanov, V. S. ★ Обобщенный метод наименьших квадратов. (Russian. Russian summary) [The generalized method of least squares] **2005e:65010**

Hairer, Ernst Geometric integration of ordinary differential equations on manifolds. (English summary) **2005d:65236**

— Global modified Hamiltonian for constrained symplectic integrators. (English summary) **2005d:37169**

Hart, Gary D. *see* **Anitescu, Mihai, 2005e:70007** *and* **2005e:70008**

Higueras Sanz, Immaculada (*with* Roldán, T.) Starting algorithms for partitioned Runge-Kutta methods: the pair Lobatto IIIA-IIIB. (English summary) **2005i:65097**

Hwang, Jun *see* **Kim, Jin Ok et al.,** (**2005c:00014**) *and* (**2005c:00014**)

Ioja, Ioan *see* **Puta, Mircea et al., 2005f:70007**

Ismail, A. I. The numerical solutions for the rotational motion of a gyrostat in a Newtonian field of force. (English summary)

Janovská, Drahoslava (*with* Opfer, Gerhard) Fast Givens transformation for quaternion valued matrices applied to Hessenberg reductions. (English summary) **2005m:70005**

Jay, Laurent O. *see* **Calvo Pinilla, M. et al., 2005m:37200**

Kalibaeva, Galina *see* **Ciccotti, Giovanni, 2005c:70015**

Kanapady, Ramdev (*with* Tamma, Kumar K.) An integrated design of generalized single step LMS time operators for nonlinear structural dynamics. (English summary)

Karpov, Eduard G. *see* **Liu, Wing Kam et al., 2005c:74005**

Kerschen, Gaetan *see* **Lee, Young Sup et al., 2005m:70079**

Khlystunova, N. V. Symplectic integration for the Euler case of motion of a nearly symmetric rigid body. (English summary) **2005k:70016**

Kim, Jin Ok (*with* Lee, Bum Ro; Chung, Chin Hyun; Hwang, Jun; Lee, Woongjae) The uniform posture map algorithm for the real-time interactive motion transitions of an articulated body. (English summary) (*see* **2005c:00014**)

— (*with* Lee, Bum Ro; Chung, Chin Hyun; Hwang, Jun; Lee, Woongjae) The inductive inverse kinematics algorithm to manipulate the posture of an articulated body. (English summary) (*see* **2005c:00014**)

Kosenko, I. I. A computational model of shock interactions in an orbital tethered system. II. (Russian. English and Russian summaries) (*see* **2005c:70001**)

Kumar, Vijay[5] *see* **Song, Peng et al., 2005b:74094**

Kuo, Ying Ming *see* **Glowinski, Roland et al., 2005b:70018**

Kuznetsov, Vadim B. (*with* Petrera, Matteo; Ragnisco, Orlando) Separation of variables and Bäcklund transformations for the symmetric Lagrange top. (English summary) **2005i:70004**

Lee, Bum Ro *see* **Kim, Jin Ok et al.,** (**2005c:00014**) *and* (**2005c:00014**)

Lee, Woongjae *see* **Kim, Jin Ok et al.,** (**2005c:00014**) *and* (**2005c:00014**)

Lee, Young Sup (*with* Kerschen, Gaetan; Vakakis, Alexander F.; Panagopoulos, Panagiotis; Bergman, Lawrence A.; McFarland, D. Michael) Complicated dynamics of a linear oscillator with a light, essentially nonlinear attachment. (English summary) **2005m:70079**

de León, Manuel (*with* Martín de Diego, David; Santamaría-Merino, Aitor) Geometric numerical integration of nonholonomic systems and optimal control problems. (English summary) (*see* **2005b:93007**)

Leszczynski, Jacek S. Computer simulations of multiparticle-contacts dynamics. English summary) (*see* **2005c:00014**)

Liu, Chaoqun *see* **Thompson, James L.,** (**2005i:00016**)

Liu, Hong-yu (*with* Sun, Geng) Symplectic RK methods and symplectic PRK methods with real eigenvalues. (English summary) **2005d:37170**

Liu, Wing Kam (*with* Karpov, Eduard G.; Zhang, Sulin; Park, Harold S.) An introduction to computational nanomechanics and materials. (English summary) **2005c:74005**

Marcote, M. *see* **Gómez, Gerard et al., 2005k:70035**

Marsden, Jerrold E. *see* **Fetecau, R. C. et al., 2005e:37197** *and* **Vela-Arevalo, Luz V., 2005e:70015**

Martín de Diego, David *see* **de León, Manuel et al.,** (**2005b:93007**)

McClamroch, N. Harris *see* **Sanyal, Amit K. et al., 2005j:70012**

McFarland, D. Michael *see* **Lee, Young Sup et al., 2005m:70079**

McLachlan, Robert I. (*with* Perlmutter, Matthew; Quispel, G. Reinout W.) On the nonlinear stability of symplectic integrators. (English summary) **2005d:37171**

— (*with* Zanna, Antonella) The discrete Moser-Veselov algorithm for the free rigid body, revisited. (English summary) **2005k:37189**

Minesaki, Yukitaka (*with* Nakamura, Yoshimasa) A conservative numerical integration algorithm for integrable Henon-Heiles system. (English summary)

Mondelo, J. M. *see* **Gómez, Gerard et al., 2005k:70035**

Montijano, Juan I. *see* **Calvo Pinilla, M. et al., 2005m:37200**

Mukharlyamov, R. G. On the construction of systems of differential equations of motion of constrained mechanical systems. (Russian. Russian summary) **2005m:70068**

Muñoz-Almaraz, F. J. (*with* Freire Macías, Emilio; Galán-Vioque, J.; Doedel, Eusebius; Vanderbauwhede, André) Continuation of periodic orbits in conservative and Hamiltonian systems. (English summary) **2005a:37104**

Nakamura, Yoshimasa *see* **Minesaki, Yukitaka**

Nasser, G. *see* **Glowinski, Roland et al., 2005b:70018**

Nikolis, Athanassios (*with* Seimenis, Ioannis) Solving dynamical systems with cubic trigonometric splines. **2005k:65021**

Opfer, Gerhard *see* **Janovská, Drahoslava, 2005m:70005**

Ortiz, Michael *see* **Fetecau, R. C. et al., 2005e:37197**

Palacios, Manuel Partitioned Runge-Kutta methods and redundant orbital problems (Spanish. Spanish summary) **2005g:70026**

Panagopoulos, Panagiotis *see* **Lee, Young Sup et al., 2005m:70079**

Pang, Jong-Shi *see* **Song, Peng et al., 2005b:74094**

Park, Harold S. *see* **Liu, Wing Kam et al., 2005c:74005**

Perlmutter, Matthew *see* **McLachlan, Robert I. et al., 2005d:37171**

Petrera, Matteo *see* **Kuznetsov, Vadim B. et al., 2005i:70004**

Pfeiffer, Andreas (*with* Arnold, Martin) Numerical analysis of structure preserving Nyström methods for Hamiltonian systems. (English summary) **2005k:37190**

Piiroinen, P. T. (*with* Virgin, L. N.; Champneys, Alan R.) Chaos and period-adding experimental and numerical verification of the grazing bifurcation. (English summary) **2005b:70027**

Ponte, S. *see* **Caps, H. et al.**

Puta, Mircea (*with* Caşu, Ioan; Tudoran, Răzvan; Ioja, Ioan) Some remarks on the rigid body dynamics in a central gravitational field. (English summary) **2005f:70007**

— (*with* Voicu, Constantin) Some remarks on the twisted top. (English summary)

2005j:70013
Qin, Meng Zhao *see* **Su, Hong-Ling**, **2005f:37180**
Qiu, Zhi Ping[1] (*with* Wang, Xiaojun[2]) Several solution methods for the generalized complex eigenvalue problem with bounded uncertainties. (English summary) **2005i:70054**
Quispel, G. Reinout W. *see* **McLachlan, Robert I. et al.**, **2005d:37171**
Ragnisco, Orlando *see* **Kuznetsov, Vadim B. et al.**, **2005i:70004**
Raman-Nair, W. (*with* Simoes Re, A.; Veitch, B.) Dynamics of lifeboat and boom in deployment from a moving support. (English summary) **2005m:70049**
Rández, Luis *see* **Calvo Pinilla, M. et al.**, **2005m:37200**
Reich, Sebastian *see* **Cotter, Colin John**, **2005g:37119** *and* **Dixon, Matthew F.**
Rodríguez, Miguel Angel[2] (*with* Winternitz, Pavel) Lie symmetries and exact solutions of first-order difference schemes. (English summary) **2005g:65103**
Roldán, T. *see* **Higueras Sanz, Immaculada**, **2005i:65097**
Roy, Debasish A family of lower- and higher-order transversal linearization techniques in non-linear stochastic engineering dynamics. (English summary) **2005c:70027**
Santamaría-Merino, Aitor *see* **de León, Manuel et al.**, (**2005b:93007**)
Sanyal, Amit K. (*with* Bloch, Anthony M.; McClamroch, N. Harris) Dynamics of multibody systems in planar motion in a central gravitational field. (English summary) **2005j:70012**
Scuro, Sante R. *see* **Chin, Siu A.**, **2005m:37201**
Seimenis, Ioannis *see* **Nikolis, Athanassios**, **2005k:65021**
Sharaf, M. A. (*with* Banajh, M. A.) Error analysis for stationary one point iteration formulae of arbitrary order of convergence for solving universal Kepler's equation. (English summary)
Sharp, P. W. Comparisons of integrators on a diverse collection of restricted three-body test problems. (English summary) **2005g:70018**
Shiau, LieJune *see* **Glowinski, Roland et al.**, **2005b:70018**
Shuster, Malcolm D. Deterministic three-axis attitude determination. (English summary) **2005m:70085**
Sideris, Ioannis V. The validity of the continuum limit in the gravitational N-body problem. (English summary) **2005h:70010**
Simoes Re, A. *see* **Raman-Nair, W. et al.**, **2005m:70049**
Simos, T. E. A trigonometrically-fitted method for long-time integration of orbital problems. (English summary) **2005k:65134**
— *see also* **Anastassi, Z. A.**
Snegovski, D. V. *see* **Danilin, A. N. et al.**, **2005d:65098**
Song, Peng (*with* Pang, Jong-Shi; Kumar, Vijay[5]) A semi-implicit time-stepping model for frictional compliant contact problems. (English summary) **2005b:74094**
Su, Hong-Ling (*with* Qin, Meng Zhao) Symplectic schemes for Birkhoffian system. (English summary) **2005f:37180**
Sun, Geng *see* **Liu, Hong-yu**, **2005d:37170**
Tamma, Kumar K. *see* **Kanapady, Ramdev**
Tan, Xiaobo Almost symplectic Runge-Kutta schemes for Hamiltonian systems. (English summary) **2005i:37099**
Thompson, James L. (*with* Liu, Chaoqun) Implicit compact scheme for harmonic oscillator equation with Coulomb friction. (English summary) (*see* **2005i:00016**)
Tudoran, Răzvan *see* **Puta, Mircea et al.**, **2005f:70007**
Udrişte, Constantin Discrete geometric dynamics. (English summary) **2005d:70007**
Vakakis, Alexander F. *see* **Lee, Young Sup et al.**, **2005m:70079**
Vanderbauwhede, André *see* **Muñoz-Almaraz, F. J. et al.**, **2005a:37104**
Vandewalle, N. *see* **Caps, H. et al.**
Veitch, B. *see* **Raman-Nair, W. et al.**, **2005m:70049**
Vela-Arevalo, Luz V. (*with* Marsden, Jerrold E.) Time-frequency analysis of the restricted three-body problem: transport and resonance transitions. (English summary) **2005e:70015**
Virgin, L. N. *see* **Piiroinen, P. T. et al.**, **2005b:70027**
Voicu, Constantin *see* **Puta, Mircea**, **2005j:70013**
Volkov-Bogorodsky, D. B. *see* **Danilin, A. N. et al.**, **2005d:65098**
Wang, Bin[1] *see* **Wang, Yu Shun et al.**
Wang, Xiaojun[2] *see* **Qiu, Zhi Ping**[1], **2005i:70054**
Wang, Yu Shun (*with* Wang, Bin[1]; Wang, Yun Feng; Yang, Hong Wei) A discrete variational method for Hamiltonian systems. (Chinese. English and Chinese summaries)
Wang, Yun Feng *see* **Wang, Yu Shun et al.**
West, Matthew *see* **Fetecau, R. C. et al.**, **2005e:37197**
Winternitz, Pavel *see* **Rodríguez, Miguel Angel**[2], **2005g:65103**
Yang, Hong Wei *see* **Wang, Yu Shun et al.**
Zanna, Antonella *see* **McLachlan, Robert I.**, **2005k:37189**
Zhabko, A. P. *see* **Aleksandrov, A. Yu.**, **2005g:37159**
Zhang, Sulin *see* **Liu, Wing Kam et al.**, **2005c:74005**
Ziegler, Martin[2] Fast relative approximation of potential fields. (English summary) **2005c:68280**

70A05 Axiomatics, foundations

Pérez Laraudogoitia, Jon Just as beautiful but not (necessarily) a supertask. (English summary)

Items with secondary classifications in 70A05

Bain, Jonathan Theories of Newtonian gravity and empirical indistinguishability. (English summary) **2005i:83001**
Barot, Emmanuel Le rasoir hégélien: déconstruire les forces suspectes de la mécanique newtonienne. [Hegel's razor: deconstructing the suspect forces of Newtonian mechanics]
Benci, Vieri Some remarks on the theory of relativity and the naïve realism. **2005f:83005**
(Hegel, G.-W.-F.) *see* **Barot, Emmanuel**
Hooker, C. A. Asymptotics, reduction and emergence. (English summary) **2005d:00007**
Koslow, Arnold Laws and possibilities. (English summary)
Santilli, Ruggero Maria Iso-, geno-, hyper-mathematics and their isoduals constructed from open physical, chemical, and biological problems. (English summary) (*see* **2005c:00013**)

70Bxx Kinematics [see also 53A17]

Items with secondary classifications in 70Bxx

Hahn, Hubert ★ Rigid body dynamics of mechanisms. I. **2005e:70003a**
— ★ Rigid body dynamics of mechanisms. II. **2005e:70003b**
Selig, J. M. Clifford algebras in engineering. (English summary) (*see* **2005d:15001**)

70B05 Kinematics of a particle

Karacan, Murat Kemal *see* **Yayli, Yusuf et al.**
Yayli, Yusuf (*with* Yaz, Nergiz; Karacan, Murat Kemal) Hamilton operators and homothetic motions in $\mathbf{R}^3$. (English summary)
Yaz, Nergiz *see* **Yayli, Yusuf et al.**

70B10 Kinematics of a rigid body

Janovská, Drahoslava (*with* Opfer, Gerhard) Fast Givens transformation for quaternion valued matrices applied to Hessenberg reductions. (English summary) **2005m:70005**
Markley, F. Landis *see* **Shuster, Malcolm D.**, **2005c:70002**
Opfer, Gerhard *see* **Janovská, Drahoslava**, **2005m:70005**
Shuster, Malcolm D. (*with* Markley, F. Landis) Generalization of the Euler angles. (English summary) **2005c:70002**

Items with secondary classifications in 70B10

Danilyuk, D. A. *see* **Kovalev, A. M.**, **2005m:70038**
Fosdick, Roger L. (*with* Royer-Carfagni, Gianni) Stress as a constraint reaction in rigid bodies. (English summary) **2005f:74004**
Godlewski, Piotr Quantization of anisotropic rigid body. (English summary) **2005a:81108**
Kovalev, A. M. (*with* Danilyuk, D. A.) Linear normal oscillations of a rigid body in Rodrigues-Hamilton parameters. (Russian. Russian summary) **2005m:70038**
Royer-Carfagni, Gianni *see* **Fosdick, Roger L.**, **2005f:74004**

70B15 Mechanisms, robots [see also 68T40, 70Q05, 93C85]

Abdel-Malek, Karim *see* **Yang, Jingzhou et al.**
Alici, Gürsel (*with* Shirinzadeh, Bijan) Topology optimisation and singularity analysis of a 3-SPS parallel manipulator with a passive constraining spherical joint. (English summary)
Altuzarra, O. *see* **Hernández, Alfonso et al.**, **2005m:70014**
Amarnath, C. *see* **Umesh, K. N.**, **2005m:70024**
Arimoto, Suguru (*with* Bae, Ji-Hun; Hashiguchi, H.; Ozawa, Ryuta) Natural resolution of ill-posedness of inverse kinematics for redundant robots under constraints. (English summary) **2005m:70006**
Attia, Hazem Ali Dynamic analysis of spatial linkages: a recursive approach. (English summary) **2005m:70007**
Avilés, R. *see* **Hernández, Alfonso et al.**, **2005m:70014**
Bae, Ji-Hun *see* **Arimoto, Suguru et al.**, **2005m:70006**
Bandyopadhyay, Sandipan (*with* Ghosal, Ashitava) Analysis of configuration space singularities of closed-loop mechanisms and parallel manipulators. (English summary) **2005m:70008**
Beaman, J. J. *see* **King, C. W. et al.**
Beauzamy, Bernard *see* **Decugis, Vincent**, **2005j:70005**
Bouzakis, K.-D. *see* **Mitsi, S. et al.**
Boya, Luis Joaquín (*with* Sudarshan, E. C. George) Relation between rigid-body motion, isotropic cones, and spinors. (English summary)
Campbell, M. I. *see* **King, C. W. et al.**
Ceccarelli, Marco (*with* Lanni, Chiara) A multi-objective optimum design of general 3R manipulators for prescribed workspace limits. (English summary)
Chen, Cha'o-Kuang *see* **Wu, Tzong-Mou**, **2005c:70004**
Chen, Li Ping *see* **Yang, Jingzhou et al.**
Chen, Yan[6] (*with* You, Zhong) Mobile assemblies based on the Bennett linkage. (English summary) **2005k:70003**
Chernous'ko, F. L. Modelling of snake-like locomotion. (English summary) **2005j:70004**
Chung, Chin Hyun *see* **Kim, Jin Ok et al.**, (**2005c:00014**) *and* (**2005c:00014**)
Collins, Curtis L. Forward kinematics of planar parallel manipulators in the Clifford algebra of P^2. (English summary) **2005m:70009**
Decugis, Vincent (*with* Beauzamy, Bernard) Convergence of a reactive planning algorithm. (English summary) **2005j:70005**
Ding, Han *see* **Zhu, Limin et al.**
Duindam, Vincent *see* **Stramigioli, Stefano**, **2005k:70005**
Feng, Zhi-Jing *see* **Zhao, Jing-Shan et al.**, **2005m:70025**
Figurina, Tatiana Quasi-static motion of a two-link system along a horizontal plane. (English summary) **2005a:70003**
Fisette, Paul *see* **Ganovski, L. et al.**, **2005i:70001**
Fong, Zhang-Hua *see* **Tsay, Ming-Feng**, **2005m:70023**
Frangos, C. *see* **Yavin, Y.**
Ganovski, L. (*with* Fisette, Paul; Samin, Jean-Claude) Piecewise overactuation of parallel mechanisms following singular trajectories: modeling, simulation and control. (English summary) **2005i:70001**
Geike, Thomas (*with* McPhee, John J.) Inverse dynamic analysis of parallel manipulators with full mobility. (English summary) **2005m:70010**
Ghosal, Ashitava *see* **Bandyopadhyay, Sandipan**, **2005m:70008**
Gogu, Grigore Chebychev-Grübler-Kutzbach's criterion for mobility calculation of multi-loop mechanisms revisited via theory of linear transformations. (English summary) **2005m:70011**
Griffis, Michael A study of curvature for single point contact. (English summary) **2005m:70012**
Guenther, Raul *see* **Martins, Daniel**, **2005m:70019**

Hahn, Hubert Mathematical modeling, control, computer simulation and laboratory experiments of a spatial servopneumatic parallel robot. I. Mathematical models, controllers, and computer simulations. (English summary)
Hashiguchi, H. *see* **Arimoto, Suguru et al., 2005m:70006**
Hay, A. M. (*with* Snyman, Jan A.) Optimization of a planar tendon-driven parallel manipulator for a maximal dextrous workspace. (English summary) **2005m:70013**
Hernández, Alfonso (*with* Altuzarra, O.; Avilés, R.; Petuya, V.) Kinematic analysis of mechanisms via a velocity equation based in a geometric matrix. (English summary) **2005m:70014**
Hwang, Jun *see* **Kim, Jin Ok et al., (2005c:00014)** *and* **(2005c:00014)**
Issac, K. Kurien *see* **Kar, Debasis et al., 2005m:70016**
Ivancevic, V. Symplectic rotational geometry in human biomechanics. (English summary) **2005m:70015**
Jayarajan, K. *see* **Kar, Debasis et al., 2005m:70016**
Jing, Xing-Jian (*with* Wang, Yue-Chao; Tan, Da-Long) Artificial coordinating field and its application to motion planning of robots in uncertain dynamic environments. (English summary) **2005j:70006**
Kar, Debasis (*with* Issac, K. Kurien; Jayarajan, K.) Gaits and energetics in terrestrial legged locomotion. (English summary) **2005m:70016**
Kim, Jin Ok (*with* Lee, Bum Ro; Chung, Chin Hyun; Hwang, Jun; Lee, Woongjae) The uniform posture map algorithm for the real-time interactive motion transitions of an articulated body. (English summary) (*see* **2005c:00014**)
— (*with* Lee, Bum Ro; Chung, Chin Hyun; Hwang, Jun; Lee, Woongjae) The inductive inverse kinematics algorithm to manipulate the posture of an articulated body. (English summary) (*see* **2005c:00014**)
King, C. W. (*with* Campbell, M. I.; Beaman, J. J.; Sreenivasan, S. V.) Synthesis of multistable equilibrium linkage systems using an optimization approach. (English summary)
Koussoulas, Nick T. (*with* Skiadas, Photis) Symbolic computation for mobile robot path planning. (English summary) **2005e:70002**
Kovalev, M. D. Straightenable hinged frameworks. (Russian. Russian summary) **2005k:70004**
Lanni, Chiara *see* **Ceccarelli, Marco**
Larin, Vladimir B. (*with* Matiyasevich, V. M.) An algorithm for the control of the spatial motion of a hopping device. (Russian. English and Ukrainian summaries)
— A spatial model of a hopping device. (Russian. English and Ukrainian summaries)
Lebedev, D. V. Using parameters of planar collineation for describing screw motion of a rigid body. (English summary)
Lebedev, P. A. Vector method for the synthesis of mechanisms. (English summary) **2005m:70017**
Lee, Bum Ro *see* **Kim, Jin Ok et al., (2005c:00014)** *and* **(2005c:00014)**
Lee, Woongjae *see* **Kim, Jin Ok et al., (2005c:00014)** *and* **(2005c:00014)**
Lerbet, Jean Singular set of four screws: an intrinsic solution. (English summary) **2005m:70018**
Li, Ze-Xiang *see* **Shen, Hui et al.**
Liu, Guan-Feng *see* **Shen, Hui et al.**
Liu, Xueshen[1] *see* **Wang, Yu Xin[1] et al., 2005c:70003**
Luo, Honggen *see* **Zhu, Limin et al.**
Maißer, Peter *see* **Müller, Andreas, 2005a:70005**
Mansour, G. *see* **Mitsi, S. et al.**
Martins, Daniel (*with* Guenther, Raul) Hierarchical kinematic analysis of robots. (English summary) **2005m:70019**
Matiyasevich, V. M. *see* **Larin, Vladimir B.**
McPhee, John J. *see* **Geike, Thomas, 2005m:70010**
Mitsi, S. (*with* Bouzakis, K.-D.; Mansour, G.; Popescu, Iulian) Position analysis in polynomial form of planar mechanisms with Assur groups of class 3 including revolute and prismatic joints. (English summary)
Mladenov, Ivaïlo M. *see* **Mladenova, Clementina D., 2005a:70004**
Mladenova, Clementina D. (*with* Mladenov, Ivaïlo M.) An approach to diagonalizing real 3×3 symmetric matrix and mechanical applications. (English summary) **2005a:70004**
Moldabekov, M. M. (*with* Murushkin, S. A.) Analysis of the positions of a three-dimensional seven-link hinge-lever mechanism. (Russian. English, Russian and Kazakh summaries)
Mruthyunjaya, T. S. Kinematic structure of mechanisms revisited. (English summary) **2005m:70020**
Müller, Andreas (*with* Maißer, Peter) A Lie-group formulation of kinematics and dynamics of constrained MBS and its application to analytical mechanics. (English summary) **2005a:70005**
Murushkin, S. A. *see* **Moldabekov, M. M.**
Ozawa, Ryuta *see* **Arimoto, Suguru et al., 2005m:70006**
Pérez González, Antonio *see* **Sánchez Marín, Francisco T., 2005m:70021**
Petuya, V. *see* **Hernández, Alfonso et al., 2005m:70014**
Popescu, Iulian *see* **Mitsi, S. et al.**
Samin, Jean-Claude *see* **Ganovski, L. et al., 2005i:70001**
Sánchez Marín, Francisco T. (*with* Pérez González, Antonio) Global optimization in path synthesis based on design space reduction. (English summary) **2005m:70021**
Schiehlen, Werner Energy-optimal design of walking machines. (English summary)
Senft, James R. Force-linear mechanisms. (English summary) **2005m:70022**
Shen, Hui (*with* Wu, Xu-Zhong; Liu, Guan-Feng; Li, Ze-Xiang) A geometric method of singularity analysis for parallel robots. (English and Chinese summaries)
Shirazi, Kourosh H. Synthesis of linkages with four points of accuracy using Maple-V. (English summary)
Shirinzadeh, Bijan *see* **Alici, Gürsel**
Skiadas, Photis *see* **Koussoulas, Nick T., 2005e:70002**
Snyman, Jan A. *see* **Hay, A. M., 2005m:70013**
Sreenivasan, S. V. *see* **King, C. W. et al.**
Stramigioli, Stefano Port-Hamiltonian modeling of spatial compliant contacts. (English summary) (*see* **2005b:93007**)
— (*with* Duindam, Vincent) Port based modeling of spatial visco-elastic contacts. (English summary) **2005k:70005**
Sudarshan, E. C. George *see* **Boya, Luis Joaquín**
Tan, Da-Long *see* **Jing, Xing-Jian et al., 2005j:70006**
Tsay, Ming-Feng (*with* Fong, Zhang-Hua) Study on the generalized mathematical model of noncircular gears. (English summary) **2005m:70023**
Udrişte, Daniel Ion On a control system of trailer-truck jackknifing. (English summary) (*see* **2005b:00022**)
— Critical & postcritical behavior of components of automotive latches and locks mechanisms. (English and Romanian summaries)
Umesh, K. N. (*with* Amarnath, C.) Motion properties of planar two-degree-of-freedom mechanisms. (English summary) **2005m:70024**
Wang, Delun (*with* Wang, Shufen) A unified approach to kinematic synthesis of mechanism by adaptive curve fitting. (English summary) **2005a:70006**
Wang, Shufen *see* **Wang, Delun, 2005a:70006**
Wang, Yiming *see* **Wang, Yu Xin[1] et al., 2005c:70003**
Wang, Yu Xin[1] (*with* Wang, Yiming; Liu, Xueshen[1]) Bifurcation property and persistence of configurations for parallel mechanisms. (English summary) **2005c:70003**
Wang, Yue-Chao *see* **Jing, Xing-Jian et al., 2005j:70006**
Wu, Tzong-Mou (*with* Chen, Cha'o-Kuang) Kinematics representations of graphical operation methods. (English summary) **2005c:70004**
Wu, Xu-Zhong *see* **Shen, Hui et al.**
Yang, Jingzhou (*with* Zhang, Yun Qing[2]; Chen, Li Ping; Abdel-Malek, Karim) Reach envelope of human extremities. (English summary)
Yavin, Y. (*with* Frangos, C.) Modelling the motion of a three-link manipulator based on a plane with a time-dependent inclination. (English summary)
You, Zhong *see* **Chen, Yan[6], 2005k:70003**
Zhang, Yun Qing[2] *see* **Yang, Jingzhou et al.**
Zhao, Jing-Shan (*with* Zhou, Kai; Feng, Zhi-Jing) A theory of degrees of freedom for mechanisms. (English summary) **2005m:70025**
Zhou, Kai *see* **Zhao, Jing-Shan et al., 2005m:70025**
Zhu, Limin (*with* Luo, Honggen; Ding, Han) Accuracy characterization and measurement point planning for workpiece localization. (English summary)

Items with secondary classifications in 70B15

Abłamowicz, Rafał (*with* Baylis, William E.; Branson, Thomas; Lounesto, Pertti; Porteous, Ian; Ryan, John; Selig, J. M.; Sobczyk, Garret) ★ Lectures on Clifford (geometric) algebras and applications. **2005d:15001**
Agrawal, V. P. *see* **Bhangale, Prasadkumar P. et al.**
Alt, Helmut (*with* Knauer, Christian; Rote, Günter; Whitesides, Sue) On the complexity of the linkage reconfiguration problem. (English summary) **2005a:68083**
Andreev, Aleksandr Sergeevich (*with* Boïkova, T. A.) On the stability of the unsteady motion of a mechanical system. (Russian. Russian summary) **2005j:70048**
Attia, Hazem Ali Point-joint coordinate formulation for the dynamic analysis of generalised planar linkages. (English summary) **2005k:70023**
Ayalew, A. *see* **Oyadiji, S. O. et al.**
Bär, Gert Explicit calculation methods for conjugate profiles. (English summary) **2005e:53014**
Basch, Julien (*with* Erickson, Jeff; Guibas, Leonidas J.; Hershberger, John; Zhang, Li[6]) Kinetic collision detection between two simple polygons. (English summary) **2005a:68048**
Baylis, William E. *see* **Abłamowicz, Rafałet al., 2005d:15001**
Bendsøe, M. P. *see* **Kawamoto, Atsushi et al.**
Bergamasco, M. *see* **Gallardo-Alvarado, J. et al., 2005m:70045**
Bhangale, Prasadkumar P. (*with* Saha, Subir Kumar; Agrawal, V. P.) A dynamic model based robot arm selection criterion. (English summary)
Biswas, Arpan *see* **Suryawanshi, Anil B. et al., 2005m:70047**
Blanchini, Franco (*with* Pellegrino, Felice Andrea; Visentini, Luca) Control of manipulators in a constrained workspace by means of linked invariant sets. (English summary) **2005e:93103**
Blickhan, Reinhard *see* **Günther, Michael et al., 2005c:92003** *and* **Geyer, Hartmut et al.**
Boïkova, T. A. *see* **Andreev, Aleksandr Sergeevich, 2005j:70048**
Bonvin, D. *see* **Mullhaupt, Ph. et al.**
Branson, Thomas *see* **Abłamowicz, Rafałet al., 2005d:15001**
Bruns, T. E. (*with* Sigmund, O.) Toward the topology design of mechanisms that exhibit snap-through behavior. (English summary) **2005b:74104**
Bullo, Francesco Trajectory design for mechanical control systems: from geometry to algorithms. (English summary) **2005k:93144**
Burdakov, S. F. (*with* Miroshnik, I. V.; Stel′makov, R. È.) ★ Системы управления движением колесных роботов. (Russian. English and Russian summaries) [Systems for the control of the motion of wheeled robots] **2005a:70008**
Cai, He Gao *see* **Yang, Lei et al.**
Casciaro, Raffaele *see* **Garcea, Giovanni et al., 2005h:74035**
Checcacci, D. *see* **Gallardo-Alvarado, J. et al., 2005m:70045**
Cherchas, D. B. *see* **Wong, R., 2005f:70011**
Chung, Wan Kyun *see* **Kwon, S. J., 2005d:93002**
Corvez, Solen (*with* Rouillier, Fabrice) Using computer algebra tools to classify serial manipulators. (English summary) (*see* **2005d:68006**)
Dasgupta, Bhaskar[2] *see* **Sen, Shamik et al., 2005m:70046** *and* **Suryawanshi, Anil B. et al., 2005m:70047**
Erickson, Jeff *see* **Basch, Julien et al., 2005a:68048**
Fanghella, P. (*with* Galletti, C.; Torre, G.) An explicit independent-coordinate formulation for the equations of motion of flexible multibody systems. (English summary) **2005m:70043**
Faraway, Julian Human animation using nonparametric regression. (English summary)
Farber, Michael S. (*with* Yuzvinsky, Sergey) Topological robotics: subspace arrangements and collision free motion planning. (English summary) **2005i:55019**
— Instabilities of robot motion. (English summary) **2005g:68166**
Figurina, Tatiana Controlled quasistatic motions of a two-link robot on a horizontal plane. (Russian. Russian summary) **2005e:70009**
Fisette, Paul *see* **Samin, Jean-Claude, 2005k:70024**
Flashner, Henryk *see* **McNitt-Gray, Jill et al., 2005k:92005**

Formica, Giovanni *see* **Garcea, Giovanni et al., 2005h:74035**
Francis, Bruce A. *see* **Lin, Zhi Yun et al., 2005g:93079**
Frangos, C. *see* **Yavin, Y.**
Frisoli, A. *see* **Gallardo-Alvarado, J. et al., 2005m:70045**
Gallardo-Alvarado, J. (*with* Rico-Martínez, José M.; Frisoli, A.; Checcacci, D.; Bergamasco, M.) Dynamics of parallel manipulators by means of screw theory. (English summary) **2005m:70045**
Galletti, C. *see* **Fanghella, P. et al., 2005m:70043**
Gao, Xiao Hui *see* **Yang, Lei et al.**
Garcea, Giovanni (*with* Formica, Giovanni; Casciaro, Raffaele) A numerical analysis of infinitesimal mechanisms. (English summary) **2005h:74035**
Geyer, Hartmut (*with* Seyfarth, André; Blickhan, Reinhard) Spring-mass running: simple approximate solution and application to gait stability. (English summary)
Ghosal, Ashitava *see* **Theodore, Rex J., 2005m:70048**
Guibas, Leonidas J. *see* **Basch, Julien et al., 2005a:68048**
Gukasyan, A. A. (*with* Matevosyan, A. G.) A stochastic game-theoretic problem for the control of the movement of a two-link manipulator. (Russian. Russian and Armenian summaries)
Günther, Michael (*with* Keppler, Valentin; Seyfarth, André; Blickhan, Reinhard) Human leg design: optimal axial alignment under constraints. (English summary) **2005c:92003**
Hashem, M. M. A. *see* **Watanabe, Keigo, 2005c:93003**
Hershberger, John *see* **Basch, Julien et al., 2005a:68048**
Issac, K. Kurien *see* **Seth, Bhartendu**
Joshi, Milind B. *see* **Suryawanshi, Anil B. et al., 2005m:70047**
Kaneda, Masahiro[2] *see* **Xin, Xin et al., 2005b:70005**
Kawamoto, Atsushi (*with* Bendsøe, M. P.; Sigmund, O.) Articulated mechanism design with a degree of freedom constraint. (English summary)
Keppler, Valentin *see* **Günther, Michael et al., 2005c:92003**
Kim, Hong Oh *see* **Kim, Hyoung Seok et al., 2005b:70003**
Kim, Hyoung Seok (*with* Kim, Hong Oh; Shin, Sung Yong) Collision detection algorithm of a continuous type using spherical extreme vertex diagrams. (English summary) **2005b:70003**
Knauer, Christian *see* **Alt, Helmut et al., 2005a:68083**
Kwon, S. J. (*with* Chung, Wan Kyun) ★ Perturbation compensator based robust tracking control and state estimation of mechanical systems. **2005d:93002**
Lai, Eugene *see* **Oyadiji, S. O. et al.**
Laurie, H. (*with* Penne, R.) Projective geometry of human motion, with an application to injury risk. (English summary) **2005i:51014**
Lee, Ho-Hoon A new design approach for the anti-swing trajectory control of overhead cranes with high-speed hoisting. (English summary) **2005g:93050**
Lin, Zhi Yun (*with* Francis, Bruce A.; Maggiore, Manfredi) Necessary and sufficient graphical conditions for formation control of unicycles. (English summary) **2005g:93079**
Liu, Hong[9] *see* **Yang, Lei et al.**
Lounesto, Pertti *see* **Abłamowicz, Rafał et al., 2005d:15001**
Luk′yanov, A. A. Effective visual localization of mobile robots on the basis of a probabilistic Markov localization method. (Russian. Russian summary)
Maggiore, Manfredi *see* **Lin, Zhi Yun et al., 2005g:93079**
Mallik, Asok Kumar *see* **Sen, Shamik et al., 2005m:70046**
Matevosyan, A. G. *see* **Gukasyan, A. A.**
Matyukhin, V. I. Computer-aided integration of the motions of a discontinuous mechanical system. (Russian. Russian summary) **2005g:34014**
McNitt-Gray, Jill (*with* Flashner, Henryk; Requejo, Philip) Dynamic modeling of human movement during activities involving impact. (English summary) **2005k:92005**
Miroshnik, I. V. *see* **Burdakov, S. F. et al., 2005a:70008**
Mita, Tsutomu *see* **Xin, Xin et al., 2005b:70005**
Mullhaupt, Ph. (*with* Srinivasan, Balasubrahmanyan; Bonvin, D.) Analysis of exclusively kinetic two-link underactuated mechanical systems. (English summary)
Noakes, J. Lyle Non-null Lie quadratics in E^3. (English summary) **2005h:53009**
Oyadiji, S. O. (*with* Ayalew, A.; Lai, Eugene) Analytical framework for the smooth manoeuvre of wheeled mobile robots traversing obstacles. (English summary)
Pearson, K. J. (*with* Zhang, Tan) Topological complexity and motion planning in certain real Grassmannians. (English summary) **2005b:55003**
Pellegrino, Felice Andrea *see* **Blanchini, Franco et al., 2005e:93103**
Penne, R. *see* **Laurie, H., 2005i:51014**
Porteous, Ian *see* **Abłamowicz, Rafał et al., 2005d:15001**
Reif, John H. (*with* Sun, Zheng[1]) On frictional mechanical systems and their computational power. (English summary) **2005f:68145**
Requejo, Philip *see* **McNitt-Gray, Jill et al., 2005k:92005**
Rico-Martínez, José M. *see* **Gallardo-Alvarado, J. et al., 2005m:70045**
Rote, Günter *see* **Alt, Helmut et al., 2005a:68083**
Rouillier, Fabrice *see* **Corvez, Solen, (2005d:68006)**
Ryan, John *see* **Abłamowicz, Rafał et al., 2005d:15001**
Saha, Subir Kumar *see* **Bhangale, Prasadkumar P. et al.**
Samin, Jean-Claude (*with* Fisette, Paul) ★ Symbolic modeling of multibody systems. **2005k:70024**
Selig, J. M. *see* **Abłamowicz, Rafał et al., 2005d:15001**
Sen, Shamik (*with* Dasgupta, Bhaskar[2]; Mallik, Asok Kumar) Variational approach for singularity-free path-planning of parallel manipulators. (English summary) **2005m:70046**
Seth, Bhartendu (*with* Issac, K. Kurien) Preface [NaCoMM-99 The National Conference on Machines and Mechanisms].
Seyfarth, André *see* **Günther, Michael et al., 2005c:92003** *and* **Geyer, Hartmut et al.**
Shin, Sung Yong *see* **Kim, Hyoung Seok et al., 2005b:70003**
Sigmund, O. *see* **Bruns, T. E., 2005b:74104** *and* **Kawamoto, Atsushi et al.**
Sobczyk, Garret *see* **Abłamowicz, Rafał et al., 2005d:15001**
Srinivasan, Balasubrahmanyan *see* **Mullhaupt, Ph. et al.**
Stel′makov, R. È. *see* **Burdakov, S. F. et al., 2005a:70008**
Sun, Zheng[1] *see* **Reif, John H., 2005f:68145**
Suryawanshi, Anil B. (*with* Joshi, Milind B.; Dasgupta, Bhaskar[2]; Biswas, Arpan) Domain mapping as an expeditionary strategy for fast path planning. (English summary) **2005m:70047**
Szkodny, Tadeusz Modelling and simulation of experimental robot. (English summary)
Theodore, Rex J. (*with* Ghosal, Ashitava) Robust control of multilink flexible manipulators. (English summary) **2005m:70048**
Torre, G. *see* **Fanghella, P. et al., 2005m:70043**
Visentini, Luca *see* **Blanchini, Franco et al., 2005e:93103**
Watanabe, Keigo (*with* Hashem, M. M. A.) ★ Evolutionary computations. **2005c:93003**
Whitesides, Sue *see* **Alt, Helmut et al., 2005a:68083**
Wong, R. (*with* Cherchas, D. B.) Hybrid constraint space dynamics and control for robot manipulators. (English summary) **2005f:70011**
Xin, Xin (*with* Mita, Tsutomu; Kaneda, Masahiro[2]) The posture control of a two-link free flying acrobot with initial angular momentum. (English summary) **2005b:70005**
Yang, Lei (*with* Gao, Xiao Hui; Liu, Hong[9]; Cai, He Gao) Cartesian impedance control for HIT dexterous robot hand based on fingertip force sensor. (Chinese. English and Chinese summaries)
Yavin, Y. (*with* Frangos, C.) Control of a three-link manipulator: collision avoidance of a moving obstacle. (English summary)
Yuzvinsky, Sergey *see* **Farber, Michael S., 2005i:55019**
Zhang, Li[6] *see* **Basch, Julien et al., 2005a:68048**
Zhang, Tan *see* **Pearson, K. J., 2005b:55003**

Items listed otherwise than by author

Lecture Notes in Control and Information Sciences *see* **Kwon, S. J., 2005d:93002**
Lectures on Clifford (geometric) algebras and applications *see* **Abłamowicz, Rafał et al., 2005d:15001**

70B99 None of the above, but in this section

Karacan, Murat Kemal (*with* Yayli, Yusuf) General two parameter motion. (English summary) **2005m:70026**
Rao, Singiresu Sambasiva (*with* Wu, Wei Dong[2]) Optimum tolerance allocation in mechanical assemblies using an interval method. (English summary) **2005m:70027**
Wu, Wei Dong[2] *see* **Rao, Singiresu Sambasiva, 2005m:70027**
Yayli, Yusuf *see* **Karacan, Murat Kemal, 2005m:70026**

Items with secondary classifications in 70B99

Abdel-All, Nassar H. (*with* Hamdon, Fathi M.) A geometric characterisation of two-parameter spatial motions with many locally one-dimensional point paths. (English summary) **2005a:53017**
Giesl, Peter (*with* Meisel, Dorothea; Scheurle, Jürgen; Wagner, Heiko) Stability analysis of the elbow with a load. (English summary)
Hamdon, Fathi M. *see* **Abdel-All, Nassar H., 2005a:53017**
Meisel, Dorothea *see* **Giesl, Peter et al.**
Scheurle, Jürgen *see* **Giesl, Peter et al.**
Wagner, Heiko *see* **Giesl, Peter et al.**

70C20 Statics

Items with secondary classifications in 70C20

Kovalev, M. D. Straightenable hinged frameworks. (Russian. Russian summary) **2005k:70004**
Maehara, Hiroshi Distance graphs and rigidity. (English summary) **2005g:05101**

70Exx Dynamics of a rigid body and of multibody systems

Hahn, Hubert ★ Rigid body dynamics of mechanisms. I. **2005e:70003a**
— ★ Rigid body dynamics of mechanisms. II. **2005e:70003b**

70E05 Motion of the gyroscope

Beletskaya, A. I. Investigation of the asymptotically periodic motions of a spherical gyrostat under potential and gyroscopic forces. (Russian. Russian summary)
Ge, Zheng Ming (*with* Lee, Jui-Kai) Chaos synchronization and parameter identification for gyroscope system. (English summary) **2005j:70007**
Ismail, A. I. The numerical solutions for the rotational motion of a gyrostat in a Newtonian field of force. (English summary)
Kaĭrakbaev, A. K. Construction of an averaged differential inclusion for a model of a gyroscope. (Russian. English and Russian summaries) **2005j:70008**
Konosevich, B. I. Investigation of the main condition for the stability of the steady motions of a gyroscope in a Cardan suspension supplied with an electric motor. (Russian. Russian summary) **2005k:70006**
Konosevich, Yu. B. Conditions for the stability of the steady modes of motion of a synchronous gyroscope in a Cardan suspension. (Russian. Russian summary) **2005k:70007**
Lee, Jui-Kai *see* **Ge, Zheng Ming, 2005j:70007**
Uzbek, E. K. On semiregular precessions of a gyrostat under potential and gyroscopic forces. (Russian. Russian summary) **2005k:70008**

Items with secondary classifications in 70E05

Chaĭkin, S. V. Stability of a family of nontrivial equilibrium orientations to the attracting center of a gyrostat with an elastic rod. (Russian. Russian summary) **2005k:70049**
Izzo, D. (*with* Valente, Chiara) A globally stable Lyapunov non linear controller for the attitude of a platform equipped with a system of actuating gyroscopes. (English summary) (*see* **2005c:00016**)
Kuang, Jin Lu *see* **Leung, Andrew Y. T., 2005e:37202**
Kutsenko, I. A. *see* **Volosov, V. V. et al., 2005g:70048**

Leung, Andrew Y. T. (*with* Kuang, Jin Lu) Spatial chaos of 3-D elastica with the Kirchhoff gyrostat analogy using Melnikov integrals. (English summary) **2005e:37202**
Loseva, N. N. (*with* Puzyrēv, V. E.) On the stability in the first approximation of uniform rotations of a system of two Lagrange gyroscopes that form a half-closed chain. (Russian. Russian summary) (*see* **2005m:00006**)
Popadinets, V. I. *see* **Volosov, V. V. et al., 2005g:70048**
Puzyrēv, V. E. *see* **Loseva, N. N., (2005m:00006)**
Uzbek, E. K. On a new solution of the Kirchhoff equations for the problem of the motion of a gyrostat under potential and gyroscopic forces. (Russian. Russian summary) **2005i:70005**
Valente, Chiara *see* **Izzo, D., (2005c:00016)**
Volosov, V. V. (*with* Kutsenko, I. A.; Popadinets, V. I.) Mathematical models of the rotational motion of spacecraft with redundant systems of gyrodines and flywheels, and problems of attitude control. I. (Russian. English, Russian and Ukrainian summaries) **2005g:70048**

70E15 Free motion of a rigid body [see also 70M20]

Chevallier, Dominique On the foundations of ordinary and generalized rigid body dynamics and the principle of objectivity. (English summary) **2005e:70004**
Grioli, Giuseppe Dynamics of the rigid bodies and celestial mechanics. (*see* **2005c:00016**)
Kharlamov, M. P. Automatic control of the programmed orientation of a rigid body. (Russian. Russian summary) **2005m:70028**

Items with secondary classifications in 70E15

Bajodah, Abdulrahman H. (*with* Hodges, Dewey H.; Chen, Ye-Hwa) Inverse dynamics of servo-constraints based on the generalized inverse. (English summary) **2005j:70056**
Breiter, Sławomir (*with* Métris, Gilles; Vokrouhlický, David) Generalized Hansen coefficients. (English summary) **2005a:70031**
Cendra, Hernán (*with* Marsden, Jerrold E.) Geometric mechanics and the dynamics of asteroid pairs. (English summary) **2005j:70023**
Chen, Ye-Hwa *see* **Bajodah, Abdulrahman H. et al., 2005j:70056**
Denisenko, V. I. *see* **Kayuk, Ya. F.**
Dullin, Holger R. Poisson integrator for symmetric rigid bodies. (English summary) **2005k:37188**
El-Gohary, Awad I. Optimal control of damping rotation of a rigid body using fly wheels with friction. (English summary)
— New optimal control laws for attitude of a rigid body motion without angular velocity measurements. (English summary)
Filip, Diana Andrada ★ Numerical methods in the dynamics of the solid-fluid system. **2005e:76014**
Ghaffari-Saadat, Mohammad H. *see* **Shirazi, Kourosh H., 2005j:70054**
Guerman, A. *see* **Sarychev, V. A. et al., 2005a:70032**
Hodges, Dewey H. *see* **Bajodah, Abdulrahman H. et al., 2005j:70056**
Iacob, Felix *see* **Puta, Mircea, 2005k:81144**
Kamberaj, H. (*with* Low, R. J.; Neal, M. P.) Symplectic and time reversible integrator for rigid bodies. (English summary) **2005b:70002**
Kayuk, Ya. F. (*with* Denisenko, V. I.) Motion of a mechanical system with variable mass-inertia characteristics. (Russian. English and Ukrainian summaries)
Kirichenko, N. F. (*with* Matvienko, V. T.) Algorithms for the asymptotic, terminal, and adaptive stabilization of the rotational motions of a rigid body. (Russian. English, Russian and Ukrainian summaries) **2005g:70050**
Low, R. J. *see* **Kamberaj, H. et al., 2005b:70002**
Marsden, Jerrold E. *see* **Cendra, Hernán, 2005j:70023**
Matvienko, V. T. *see* **Kirichenko, N. F., 2005g:70050**
Métris, Gilles *see* **Breiter, Sławomir et al., 2005a:70031**
Neal, M. P. *see* **Kamberaj, H. et al., 2005b:70002**
Paglione, P. *see* **Sarychev, V. A. et al., 2005a:70032**
Puta, Mircea (*with* Iacob, Felix) The quantization of the free rigid body. (English summary) **2005k:81144**
Sarychev, V. A. (*with* Guerman, A.; Paglione, P.) Influence of constant torque on equilibria of satellite in circular orbit. (English summary) **2005a:70032**
Shirazi, Kourosh H. (*with* Ghaffari-Saadat, Mohammad H.) Bifurcation and chaos in an apparent-type gyrostat satellite. (English summary) **2005j:70054**
Sirotin, A. N. On the problem of reorientation, optimal with respect to power consumption, with simultaneous braking of a spherically symmetric body over unspecified time. (Russian. Russian summary) **2005j:70057**
Vokrouhlický, David *see* **Breiter, Sławomir et al., 2005a:70031**

70E17 Motion of a rigid body with a fixed point

Akulenko, L. D. (*with* Kozachenko, T. A.; Leshchenko, D. D.) Perturbed rotational motions of a rigid body under the action of a nonstationary restoring moment that depends on the nutation angle. (Russian. Russian summary)
Amer, Tarek S. Motion of a rigid body analogous to the case of Euler and Poinsot. (English summary) **2005m:70029**
Amisheva, N. V. On invariant directions and their properties on an isoenergy surface of nonintegrable Kirchhoff differential equations. (Russian. English and Russian summaries)
Aron, Anania *see* **Puta, Mircea, 2005f:70006**
Belyaev, A. V. Solutions of the Euler-Poisson equations without singular points. (Ukrainian. English summary) **2005i:70002**
— The entire solutions of the Euler-Poisson equations. (English and Ukrainian summaries) **2005m:70030**
Birtea, Petre (*with* Hogea, Cosmin; Puta, Mircea) Some remarks on the Clebsch's system. (English summary) **2005f:70004**
Bruno, Alexander D. Analysis of the Euler-Poisson equations by power geometry methods. (Russian. Russian summary) **2005m:70031**
Burov, A. A. On restricted problems in the mechanics of a rigid body. (Russian. English and Russian summaries) **2005e:70005**
— On a "restricted" formulation of the problem of the motion of a heavy rigid body. (Russian. Russian summary) **2005i:70003**
Cantarelli, Giancarlo (*with* Risito, Corrado) An example of a non-degenerate precession possessing two distinct pairs of axes. (English and Italian summaries) **2005f:70005**
Caşu, Ioan *see* **Puta, Mircea et al., 2005f:70007**
Chen, Hsien-Keng (*with* Ge, Zheng Ming) Bifurcations and chaos of a two-degree-of-freedom dissipative gyroscope. (English summary)
Craioveanu, Mircea (*with* Ioja, Ioan; Puta, Mircea) Some remarks on the rigid body with one control. **2005b:70004**
Danileĭko, E. A. A new particular solution of the equations of motion of a gyrostat in a magnetic field. (Russian. Russian summary) **2005k:70009**
Danilyuk, D. A. *see* **Kovalev, A. M., 2005m:70038**
El-Gohary, Awad I. Optimal stabilization of an equilibrium position of a rigid body using rotors system with friction forces. (English summary)
Elipe Sánchez, Antonio C. Rotations of perturbed triaxial rigid bodies. (English summary) **2005k:70010**
Gashenenko, Igor N. (*with* Kucher, E. Yu.) Analysis of isoenergy surfaces for exact solutions of the problem of the motion of a rigid body. (Russian. Russian summary) **2005m:70032**
— Enveloping surfaces in the problem of the motion of a heavy gyrostat. (Russian. Russian summary) **2005k:70011**
— (*with* Kucher, E. Yu.) Characteristic exponents of periodic solutions of Euler-Poisson equations. (Russian. Russian summary) **2005k:70012**
— (*with* Richter, Peter H.) Enveloping surfaces and admissible velocities of heavy rigid bodies. (English summary) **2005j:70009**
Ge, Zheng Ming *see* **Chen, Hsien-Keng**
Gorr, Gennadiĭ Viktorovich On a class of precession-isoconic motions of a body under potential and gyroscopic forces. (Russian. Russian summary) **2005m:70033**
Hogea, Cosmin *see* **Birtea, Petre et al., 2005f:70004**
Ioja, Ioan *see* **Craioveanu, Mircea et al., 2005b:70004** *and* **Puta, Mircea et al., 2005f:70007**
Kharlamov, A. P. Visualization of the periodic inertial motions of a body fastened at a fixed point by a nonholonomic hinge. (Russian. Russian summary) **2005m:70034**
— Parametrization and construction of the complete solution of the problem of the motion of the Kovalevskaya gyroscope in the Delone case. (Russian. Russian summary) **2005k:70013**
Kharlamov, M. P. A class of solutions with two invariant relations of the problem of the motion of the Kovalevskaya top in a double constant field. (Russian. Russian summary) **2005k:70014**
— (*with* Savushkin, A. Yu.; Shvedov, E. G.) The bifurcation set in a problem of the motion of a generalized Kovalevskaya top. (Russian. Russian summary) **2005m:70035**
— (*with* Savushkin, A. Yu.) Explicit integration of one problem of motion of the generalized Kowalevski top. (English summary) **2005m:70036**
— (*with* Zot'ev, D. B.) Non-degenerate energy surfaces of rigid body in two constant fields (English summary) **2005k:70015**
Khlystunova, N. V. Symplectic integration for the Euler case of motion of a nearly symmetric rigid body. (English summary) **2005k:70016**
Kirichenko, V. V. Integrals of the equations of perturbed motion of the Goryachev-Chaplygin gyroscope. (Russian. Russian summary) (*see* **2005m:00006**)
Kovalev, A. M. Embedding of invariant manifolds into a family of integral manifolds and the analysis of the Hess solution. (Russian. Russian summary) **2005m:70037**
— (*with* Danilyuk, D. A.) Linear normal oscillations of a rigid body in Rodrigues-Hamilton parameters. (Russian. Russian summary) **2005m:70038**
— The existence of the fourth integral of the equations of motion of a rigid body with a fixed point under Hess conditions. (Russian. English summary) **2005m:70039**
Kozachenko, T. A. *see* **Akulenko, L. D. et al.**
Kucher, E. Yu. Characteristic exponents of periodic Steklov and Chaplygin solutions (Russian. Russian summary)
— *see also* **Gashenenko, Igor N., 2005k:70012** *and* **2005m:70032**
Kuznetsov, Vadim B. (*with* Petrera, Matteo; Ragnisco, Orlando) Separation of variables and Bäcklund transformations for the symmetric Lagrange top. (English summary) **2005i:70004**
Leshchenko, D. D. *see* **Akulenko, L. D. et al.**
Mandal, Bharat Lal *see* **Singh, Bishnudeo**
Markeev, A. P. Stability of motion of a rigid body in the Steklov case. (Russian) **2005m:70040**
— On the Steklov case in rigid body dynamics. (English summary) **2005k:70017**
Petrera, Matteo *see* **Kuznetsov, Vadim B. et al., 2005i:70004**
Puta, Mircea (*with* Aron, Anania) Some remarks on the heavy top dynamics. (English summary) **2005f:70006**
— (*with* Caşu, Ioan; Tudoran, Răzvan; Ioja, Ioan) Some remarks on the rigid body dynamics in a central gravitational field. (English summary) **2005f:70007**
— *see also* **Craioveanu, Mircea et al., 2005b:70004** *and* **Birtea, Petre et al., 2005f:70004**
Ragnisco, Orlando *see* **Kuznetsov, Vadim B. et al., 2005i:70004**
Richter, Peter H. *see* **Gashenenko, Igor N., 2005j:70009**
Risito, Corrado *see* **Cantarelli, Giancarlo, 2005f:70005**
Savushkin, A. Yu. *see* **Kharlamov, M. P. et al., 2005m:70035** *and* **2005m:70036**
Shvedov, E. G. *see* **Kharlamov, M. P. et al., 2005m:70035**
Singh, Bishnudeo (*with* Mandal, Bharat Lal) Stability of uniform rotation of a rigid body about a principal axes of Hamiltonian system.
Tudoran, Răzvan *see* **Puta, Mircea et al., 2005f:70007**
Uzbek, E. K. On lowering the order of Kirchhoff differential equations for the problem of the motion of a gyrostat under the action of potential and gyroscopic forces. (Russian. English summary)
— On a new solution of the Kirchhoff equations for the problem of the motion of a gyrostat under potential and gyroscopic forces. (Russian. Russian summary) **2005i:70005**
Zot'ev, D. B. *see* **Kharlamov, M. P., 2005k:70015**
Zyza, A. V. On polynomial solutions of the equations of motion of a gyrostat in a magnetic field. (Russian. Russian summary) **2005k:70018**

Items with secondary classifications in 70E17

Benettin, Giancarlo (*with* Fassò, Francesco; Guzzo, Massimiliano) Long term stability of proper rotations of the perturbed Euler rigid body. (English summary) **2005f:70009**

El-Gohary, Awad I. (*with* Tawfik, T. S.) Optimal control of the rotational motion of a rigid body using moving masses. (English summary) **2005a:70033**

— Optimal control of rigid body motion with the help of rotors using stereographic coordinates. (English summary) **2005m:70090**

— Optimal control of the rotational motion of a rigid body using Euler parameters with the help of rotor system. (English summary) **2005i:70060**

Endres, L. *see* **Krysl, P., 2005m:70004**

Fassò, Francesco *see* **Benettin, Giancarlo et al., 2005f:70009**

Fomenko, Anatoliĭ T. (*with* Morozov, P. V.) Some new results in topological classification of integrable systems in rigid body dynamics. (English summary) **2005c:37103**

Gashenenko, Igor N. Integral manifolds in the problem of the motion of a heavy rigid body. (Russian. Russian summary) **2005k:70020**

Godlewski, Piotr Quantization of anisotropic rigid body. (English summary) **2005a:81108**

Guzzo, Massimiliano *see* **Benettin, Giancarlo et al., 2005f:70009**

Irtegov, V. D. (*with* Titorenko, T. N.) Computer algebra and investigation of invariant manifolds of mechanical systems. (English summary) **2005f:70003**

Ivanov, Ts. P. (*with* Savova, R.) Stability of relative equilibria of an elastic top. (English summary) **2005c:70006**

Kholostova, O. V. Periodic motions of a nearly dynamically symmetric satellite in a neighborhood of a conical precession. (Russian. Russian summary) **2005e:70037**

Kovalev, A. M. Invariant and integral manifolds of dynamical systems and the problem of integration of the Euler-Poisson equations. (English summary) **2005d:37034**

Krysl, P. (*with* Endres, L.) Explicit Newmark/Verlet algorithm for time integration of the rotational dynamics of rigid bodies. (English summary) **2005m:70004**

McLachlan, Robert I. (*with* Zanna, Antonella) The discrete Moser-Veselov algorithm for the free rigid body, revisited. (English summary) **2005k:37189**

Morosi, Carlo (*with* Tondo, Giorgio) Separation of variables in multi-Hamiltonian systems. Application to the Lagrange top. (Russian. Russian summary) **2005b:37125**

Morozov, P. V. *see* **Fomenko, Anatoliĭ T., 2005c:37103**

O'Reilly, Oliver M. (*with* Tan, Meng How) Steady motions of an axisymmetric satellite: an atlas of their bifurcations. (English summary) **2005f:70033**

Savova, R. *see* **Ivanov, Ts. P., 2005c:70006**

Suris, Yu. B. Discrete Lagrangian models. (English summary) **2005e:37116**

Tan, Meng How *see* **O'Reilly, Oliver M., 2005f:70033**

Tawfik, T. S. *see* **El-Gohary, Awad I., 2005a:70033**

Teğmen, Adnan Momentum map and action-angle variables for Nambu dynamics. (English summary) **2005b:70025**

Titorenko, T. N. *see* **Irtegov, V. D., 2005f:70003**

Tondo, Giorgio *see* **Morosi, Carlo, 2005b:37125**

Tsyganov, Andreĭ Vladimirovich[1] On the Steklov-Lyapunov case of the rigid body motion. (English summary) **2005f:70010**

Zanna, Antonella *see* **McLachlan, Robert I., 2005k:37189**

70E18 Motion of a rigid body in contact with a solid surface [see also 70F25]

Bou-Rabee, Nawaf M. (*with* Marsden, Jerrold E.; Romero, Louis A.) Tippe top inversion as a dissipation-induced instability. (English summary) **2005h:70004**

Brearley, Maurice N. (*with* de Mestre, Neville J.) Rolling of a rigid ball on a horizontal deformable surface. (English summary) **2005e:70006**

Burov, A. A. (*with* Chevallier, Dominique) On the first integrals in the problem of the motion of a heavy rigid body that bounces on a smooth horizontal plane. (Russian) **2005j:70010**

Bychkov, Yu. P. On the rolling of a rigid body on a moving surface. (Russian. Russian summary) **2005k:70019**

Caps, H. (*with* Dorbolo, S.; Ponte, S.; Croisier, H.; Vandewalle, N.) Rolling and slipping motion of Euler's disk. (English summary)

Chevallier, Dominique *see* **Burov, A. A., 2005j:70010**

Croisier, H. *see* **Caps, H. et al.**

Dorbolo, S. *see* **Caps, H. et al.**

Karapetyan, A. V. (*with* Selyutskaya, O. V.) On the steady motions of a heavy fluid-filled ellipsoid on a plane with friction. (Russian. English and Russian summaries) **2005f:70008**

Kozhevnikov, I. F. *see* **Vil'ke, V. G.**

Kuleshov, A. S. On integral equations of motion of a gyrostat on a rough plane. (Russian. English and Russian summaries) **2005g:70004**

— On integral equations of motion of a gyrostat on a rough plane. (Russian. Russian summary)

Marsden, Jerrold E. *see* **Bou-Rabee, Nawaf M. et al., 2005h:70004**

de Mestre, Neville J. *see* **Brearley, Maurice N., 2005e:70006**

Ponte, S. *see* **Caps, H. et al.**

Romero, Louis A. *see* **Bou-Rabee, Nawaf M. et al., 2005h:70004**

Selyutskaya, O. V. *see* **Karapetyan, A. V., 2005f:70008**

Vandewalle, N. *see* **Caps, H. et al.**

Vil'ke, V. G. (*with* Kozhevnikov, I. F.) On a model of a wheel with a reinforced tire. (Russian. Russian summary)

Items with secondary classifications in 70E18

Bernardin, Frédéric (*with* Schatzman, Michelle; Lamarque, Claude-Henri) A Stochastic differential equation from friction mechanics. (English and French summaries) **2005j:60123**

— (*with* Schatzman, Michelle; Lamarque, Claude-Henri) Second-order multivalued stochastic differential equations on Riemannian manifolds. (English summary) **2005g:58063**

Borisov, Alekseĭ Vladimirovich (*with* Mamaev, I. S.; Kilin, A. A.) Dynamics of rolling disk. (English summary) **2005e:37139**

Cendra, Hernán (*with* Ibort, Luis Alberto; de León, Manuel; Martín de Diego, David) A generalization of Chetaev's principle for a class of higher order nonholonomic constraints. (English summary) **2005d:70004**

Ibort, Luis Alberto *see* **Cendra, Hernán et al., 2005d:70004**

Kilin, A. A. *see* **Borisov, Alekseĭ Vladimirovich et al., 2005e:37139**

Lamarque, Claude-Henri *see* **Bernardin, Frédéric et al., 2005g:58063** *and* **2005j:60123**

de León, Manuel *see* **Cendra, Hernán et al., 2005d:70004**

Mamaev, I. S. *see* **Borisov, Alekseĭ Vladimirovich et al., 2005e:37139**

Martín de Diego, David *see* **Cendra, Hernán et al., 2005d:70004**

Moghadasi, S. Reza Rolling of a body on a plane or a sphere: a geometric point of view. (English summary) **2005f:93037**

Pfeiffer, Friedrich G. Unilateral problems of dynamics. (English summary) **2005b:70015**

Ramos, Arturo Poisson structures for reduced non-holonomic systems. (English summary) **2005d:37137**

Schatzman, Michelle *see* **Bernardin, Frédéric et al., 2005g:58063** *and* **2005j:60123**

Zimmerman, Jason A. Optimal control of the sphere S^n rolling on E^n. (English summary) **2005m:49036**

70E20 Perturbation methods for rigid body dynamics

Akulenko, L. D. (*with* Kozachenko, T. A.; Leshchenko, D. D.) Perturbed rotations of a rigid body under the action of a nonstationary restoring moment. (Russian. Russian summary)

Benettin, Giancarlo (*with* Fassò, Francesco; Guzzo, Massimiliano) Long term stability of proper rotations of the perturbed Euler rigid body. (English summary) **2005f:70009**

Fassò, Francesco *see* **Benettin, Giancarlo et al., 2005f:70009**

Guzzo, Massimiliano *see* **Benettin, Giancarlo et al., 2005f:70009**

Kozachenko, T. A. *see* **Akulenko, L. D. et al.**

Leshchenko, D. D. *see* **Akulenko, L. D. et al.**

Items with secondary classifications in 70E20

Akulenko, L. D. (*with* Kozachenko, T. A.; Leshchenko, D. D.) Perturbed rotational motions of a rigid body under the action of a nonstationary restoring moment that depends on the nutation angle. (Russian. Russian summary)

Amer, Tarek S. Motion of a rigid body analogous to the case of Euler and Poinsot. (English summary) **2005m:70029**

Elipe Sánchez, Antonio C. Rotations of perturbed triaxial rigid bodies. (English summary) **2005k:70010**

Kirichenko, V. V. Integrals of the equations of perturbed motion of the Goryachev-Chaplygin gyroscope. (Russian. Russian summary) (*see* **2005m:00006**)

Kozachenko, T. A. *see* **Akulenko, L. D. et al.**

Kuang, Jin Lu (*with* Leung, Andrew Y. T.; Tan, Soonhie) Hamiltonian and chaotic attitude dynamics of an orbiting gyrostat satellite under gravity-gradient torques. (English summary) **2005e:70038**

Leshchenko, D. D. *see* **Akulenko, L. D. et al.**

Leung, Andrew Y. T. *see* **Kuang, Jin Lu et al., 2005e:70038**

Tan, Soonhie *see* **Kuang, Jin Lu et al., 2005e:70038**

70E40 Integrable cases of motion

Abrarov, D. L. On the mechanism of the integrability of the Euler-Poisson equations. (Russian. English and Russian summaries) **2005g:70005**

Gashenenko, Igor N. Integral manifolds in the problem of the motion of a heavy rigid body. (Russian. Russian summary) **2005k:70020**

Komarov, I. V. (*with* Sokolov, V. V.; Tsyganov, Andreĭ Vladimirovich[1]) Poisson maps and integrable deformations of the Kowalevski top. (English summary) **2005a:70007**

— (*with* Tsyganov, Andreĭ Vladimirovich[1]) On integration of the Kowalevski gyrostat and the Clebsch problems. (English summary) **2005g:70006**

Ryabov, P. E. Bifurcations of first integrals in the Sokolov case. (Russian. Russian summary) **2005c:70005**

Sokolov, V. V. *see* **Komarov, I. V. et al., 2005a:70007**

Tsyganov, Andreĭ Vladimirovich[1] On the Steklov-Lyapunov case of the rigid body motion. (English summary) **2005f:70010**

— *see also* **Komarov, I. V. et al., 2005a:70007** *and* **2005g:70006**

Vozmishcheva, T. G. The Kovalevskaya top. Bifurcation analysis under the Kolosov change. **2005k:70021**

Items with secondary classifications in 70E40

Birtea, Petre (*with* Hogea, Cosmin; Puta, Mircea) Some remarks on the Clebsch's system. (English summary) **2005f:70004**

Christov, Ognyan *see* **Zhivkov, Angel, 2005g:37112**

Fomenko, Anatoliĭ T. (*with* Morozov, P. V.) Some new results in topological classification of integrable systems in rigid body dynamics. (English summary) **2005c:37103**

Gashenenko, Igor N. (*with* Richter, Peter H.) Enveloping surfaces and admissible velocities of heavy rigid bodies. (English summary) **2005j:70009**

Hogea, Cosmin *see* **Birtea, Petre et al., 2005f:70004**

Kharlamov, M. P. A class of solutions with two invariant relations of the problem of the motion of the Kovalevskaya top in a double constant field. (Russian. Russian summary) **2005k:70014**

— (*with* Savushkin, A. Yu.) Explicit integration of one problem of motion of the generalized Kowalevski top. (English summary) **2005m:70036**

Kovalev, A. M. Embedding of invariant manifolds into a family of integral manifolds and the analysis of the Hess solution. (Russian. Russian summary) **2005m:70037**

— Invariant and integral manifolds of dynamical systems and the problem of integration of the Euler-Poisson equations. (English summary) **2005d:37034**

Kuznetsov, Vadim B. (*with* Petrera, Matteo; Ragnisco, Orlando) Separation of variables and Bäcklund transformations for the symmetric Lagrange top. (English summary) **2005i:70004**

Leach, P. G. L. (*with* Nucci, M. C.) Reduction of the classical MICZ-Kepler problem to a two-dimensional linear isotropic harmonic oscillator. (English summary) **2005f:70014**

Morosi, Carlo (*with* Tondo, Giorgio) Separation of variables in multi-Hamiltonian systems. Application to the Lagrange top. (Russian. Russian summary) **2005b:37125**
Morozov, P. V. Topology of Liouville foliations of cases of Steklov and Sokolov integrability of the Kirchhoff equations. (Russian. Russian summary) **2005j:37097**
— *see also* **Fomenko, Anatoliĭ T., 2005c:37103**
Nucci, M. C. *see* **Leach, P. G. L., 2005f:70014**
Penskoĭ, A. V. Symmetries and Lagrangian time-discretizations of Euler equations. (English summary) **2005h:37146**
Petrera, Matteo *see* **Kuznetsov, Vadim B. et al., 2005i:70004**
Puta, Mircea *see* **Birtea, Petre et al., 2005f:70004**
Ragnisco, Orlando *see* **Kuznetsov, Vadim B. et al., 2005i:70004**
Richter, Peter H. *see* **Gashenenko, Igor N., 2005j:70009**
Savushkin, A. Yu. *see* **Kharlamov, M. P., 2005m:70036**
Tondo, Giorgio *see* **Morosi, Carlo, 2005b:37125**
Tsyganov, Andreĭ Vladimirovich[1] Integrable deformations of tops associated with the algebra so(p, q). (Russian. Russian summary) **2005m:37136**
— On an isomorphism of integrable cases of the Euler equations on the bi-Hamiltonian manifolds e(3) and so(4). (Russian. English and Russian summaries) **2005j:37100**
— On a family of integrable systems on S^2 with a cubic integral of motion. (English summary) **2005i:37069**
— A new integrable system on S^2 with the second integral quartic in the momenta. (English summary) **2005m:37137**
Zhivkov, Angel (*with* Christov, Ognyan) Effective solutions of the Clebsch and C. Neumann systems. (English summary) **2005g:37112**

70E45 Higher-dimensional generalizations

Items with secondary classifications in 70E45

Bruschi, Mario (*with* Calogero, Francesco) Convenient parameterizations of matrices in terms of vectors. (English summary) **2005i:15051**
Calogero, Francesco *see* **Bruschi, Mario, 2005i:15051**
Chevallier, Dominique On the foundations of ordinary and generalized rigid body dynamics and the principle of objectivity. (English summary) **2005e:70004**
Golubchik, I. Z. (*with* Sokolov, V. V.) Factorization of the loop algebra, and integrable top-like equations. (Russian. Russian summary)
Sokolov, V. V. *see* **Golubchik, I. Z.**
Tsyganov, Andreĭ Vladimirovich[1] Integrable deformations of tops associated with the algebra so(p, q). (Russian. Russian summary) **2005m:37136**

70E50 Stability problems

Ignatyev, Oleksiy Alexandrovich Asymptotic stability of the relative equilibrium position of a system of bodies modeling rotary blades. (Russian. Russian summary)
Ivanov, Ts. P. (*with* Savova, R.) Stability of relative equilibria of an elastic top. (English summary) **2005c:70006**
Karapetyan, A. V. (*with* Samsonov, V. A.; Sumin, T. S.) On the stability and branching of permanent rotations of a rigid body with a liquid filling. (Russian. Russian summary) **2005i:70006**
Kononov, Yu. N. On the stability of equilibrium of a physical pendulum containing a multilayer fluid separated by elastic plates. (Russian. Russian summary) **2005k:70022**
Puzyrëv, V. E. Passive stabilization of the steady motion of a rotating pendulum. (Russian. Russian summary)
Samsonov, V. A. *see* **Karapetyan, A. V. et al., 2005i:70006**
Savova, R. *see* **Ivanov, Ts. P., 2005c:70006**
Sumin, T. S. *see* **Karapetyan, A. V. et al., 2005i:70006**

Items with secondary classifications in 70E50

Aron, Anania *see* **Puta, Mircea, 2005f:70006**
Benettin, Giancarlo (*with* Fassò, Francesco; Guzzo, Massimiliano) Long term stability of proper rotations of the perturbed Euler rigid body. (English summary) **2005f:70009**
Birtea, Petre (*with* Dobre, Liliana; Puta, Mircea) Some remarks on a theorem of Leonard and Marsden. (English summary) **2005j:70049**
— (*with* Hogea, Cosmin; Puta, Mircea) Some remarks on the Clebsch's system. (English summary) **2005f:70004**
Bou-Rabee, Nawaf M. (*with* Marsden, Jerrold E.; Romero, Louis A.) Tippe top inversion as a dissipation-induced instability. (English summary) **2005h:70004**
Breiter, Sławomir (*with* Métris, Gilles; Vokrouhlický, David) Generalized Hansen coefficients. (English summary) **2005a:70031**
Caşu, Ioan *see* **Puta, Mircea et al., 2005f:70007**
Chaĭkin, S. V. Stability of a family of nontrivial equilibrium orientations to the attracting center of a gyrostat with an elastic rod. (Russian. Russian summary) **2005k:70049**
Dobre, Liliana *see* **Birtea, Petre et al., 2005j:70049**
El-Gohary, Awad I. (*with* Tawfik, T. S.) Optimal control of the rotational motion of a rigid body using moving masses. (English summary) **2005a:70033**
Fassò, Francesco *see* **Benettin, Giancarlo et al., 2005f:70009**
Gashenenko, Igor N. (*with* Kucher, E. Yu.) Characteristic exponents of periodic solutions of Euler-Poisson equations. (Russian. Russian summary) **2005k:70012**
— Integral manifolds in the problem of the motion of a heavy rigid body. (Russian. Russian summary) **2005k:70020**
Guerman, A. *see* **Sarychev, V. A. et al., 2005a:70032**
Guzzo, Massimiliano *see* **Benettin, Giancarlo et al., 2005f:70009**
Hogea, Cosmin *see* **Birtea, Petre et al., 2005f:70004**
Ioja, Ioan *see* **Puta, Mircea et al., 2005f:70007**
Konosevich, B. I. Investigation of the main condition for the stability of the steady motions of a gyroscope in a Cardan suspension supplied with an electric motor. (Russian. Russian summary) **2005k:70006**
Konosevich, Yu. B. Conditions for the stability of the steady modes of motion of a synchronous gyroscope in a Cardan suspension. (Russian. Russian summary) **2005k:70007**
Kucher, E. Yu. *see* **Gashenenko, Igor N., 2005k:70012**
Loseva, N. N. (*with* Puzyrëv, V. E.) On the stability in the first approximation of uniform rotations of a system of two Lagrange gyroscopes that form a half-closed chain. (Russian. Russian summary) (*see* **2005m:00006**)
Mandal, Bharat Lal *see* **Singh, Bishnudeo**
Mantegazza, P. *see* **Quaranta, G. et al.**
Markeev, A. P. Stability of motion of a rigid body in the Steklov case. (Russian) **2005m:70040**
— On the Steklov case in rigid body dynamics. (English summary) **2005k:70017**
Marsden, Jerrold E. *see* **Bou-Rabee, Nawaf M. et al., 2005h:70004**
Masarati, P. *see* **Quaranta, G. et al.**
Métris, Gilles *see* **Breiter, Sławomir et al., 2005a:70031**
Paglione, P. *see* **Sarychev, V. A. et al., 2005a:70032**
Puta, Mircea (*with* Aron, Anania) Some remarks on the heavy top dynamics. (English summary) **2005f:70006**
— (*with* Caşu, Ioan; Tudoran, Răzvan; Ioja, Ioan) Some remarks on the rigid body dynamics in a central gravitational field. (English summary) **2005f:70007**
— *see also* **Birtea, Petre et al., 2005f:70004** *and* **2005j:70049**
Puzyrëv, V. E. *see* **Loseva, N. N., (2005m:00006)**
Quaranta, G. (*with* Mantegazza, P.; Masarati, P.) Assessing the local stability of periodic motions for large multibody non-linear systems using proper orthogonal decomposition. (English summary)
Romero, Louis A. *see* **Bou-Rabee, Nawaf M. et al., 2005h:70004**
Sarychev, V. A. (*with* Guerman, A.; Paglione, P.) Influence of constant torque on equilibria of satellite in circular orbit. (English summary) **2005a:70032**
Singh, Bishnudeo (*with* Mandal, Bharat Lal) Stability of uniform rotation of a rigid body about a principal axes of Hamiltonian system.
Tawfik, T. S. *see* **El-Gohary, Awad I., 2005a:70033**
Tudoran, Răzvan *see* **Puta, Mircea et al., 2005f:70007**
Vokrouhlický, David *see* **Breiter, Sławomir et al., 2005a:70031**

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Agirrebeitia, J. (*with* Avilés, R.; de Bustos, I. F.; Ajuria, G.) Inverse position problem in highly redundant multibody systems in environments with obstacles. (English summary) **2005m:70041**
Agulló i Batlle, Joaquim Rough collisions in multibody systems. Restitution rules and energetical consistency. (English summary) **2005c:70007**
Ajuria, G. *see* **Agirrebeitia, J. et al., 2005m:70041**
Anitescu, Mihai (*with* Hart, Gary D.) A constraint-stabilized time-stepping approach for rigid multibody dynamics with joints, contact and friction. (English summary) **2005e:70007**
— (*with* Hart, Gary D.) A fixed-point iteration approach for multibody dynamics with contact and small friction. (English summary) **2005e:70008**
Aslanov, V. S. (*with* Doroshin, A. V.) The motion of a system of coaxial bodies of variable mass. (Russian. Russian summary) **2005j:70011**
Attia, Hazem Ali Point-joint coordinate formulation for the dynamic analysis of generalised planar linkages. (English summary) **2005k:70023**
Avilés, R. *see* **Agirrebeitia, J. et al., 2005m:70041**
Bloch, Anthony M. *see* **Sanyal, Amit K. et al., 2005j:70012**
Bolgrabskaya, I. A. Uniform rotations in systems with a half-closed chain. (Russian Russian summary) **2005m:70042**
de Bustos, I. F. *see* **Agirrebeitia, J. et al., 2005m:70041**
Doroshin, A. V. *see* **Aslanov, V. S., 2005j:70011**
Fanghella, P. (*with* Galletti, C.; Torre, G.) An explicit independent-coordinate formulation for the equations of motion of flexible multibody systems. (English summary) **2005m:70043**
Fisette, Paul *see* **Samin, Jean-Claude, 2005k:70024** *and* **Sass, L. et al.**
Galletti, C. *see* **Fanghella, P. et al., 2005m:70043**
García Orden, J. C. Analysis of joint clearances in multibody systems. (English summary) **2005m:70044**
Grenier, D. *see* **Sass, L. et al.**
Hart, Gary D. *see* **Anitescu, Mihai, 2005e:70007** *and* **2005e:70008**
Klimke, Andreas (*with* Willner, Kai; Wohlmuth, Barbara I.) Uncertainty modeling using fuzzy arithmetic based on sparse grids: applications to dynamic systems. (English summary) **2005i:70007**
Leutin, A. P. Extremal property of the constraint reactions of systems of coupled bodies. (Russian. Russian summary) **2005h:70005**
Lin, Yi-Shih *see* **Nikravesh, Parviz E.**
Loseva, N. N. (*with* Puzyrëv, V. E.) On the stability in the first approximation of uniform rotations of a system of two Lagrange gyroscopes that form a half-closed chain. (Russian. Russian summary) (*see* **2005m:00006**)
Mantegazza, P. *see* **Quaranta, G. et al.**
Masarati, P. *see* **Quaranta, G. et al.**
McClamroch, N. Harris *see* **Sanyal, Amit K. et al., 2005j:70012**
McPhee, John J. *see* **Sass, L. et al.**
Nikravesh, Parviz E. (*with* Lin, Yi-Shih) Use of principal axes as the floating reference frame for a moving deformable body. (English summary)
Puzyrëv, V. E. *see* **Loseva, N. N., (2005m:00006)**
Quaranta, G. (*with* Mantegazza, P.; Masarati, P.) Assessing the local stability of periodic motions for large multibody non-linear systems using proper orthogonal decomposition (English summary)
Samin, Jean-Claude (*with* Fisette, Paul) ★ Symbolic modeling of multibody systems. **2005k:70024**
Sanyal, Amit K. (*with* Bloch, Anthony M.; McClamroch, N. Harris) Dynamics of multibody systems in planar motion in a central gravitational field. (English summary) **2005j:70012**
Sass, L. (*with* McPhee, John J.; Schmitke, C.; Fisette, Paul; Grenier, D.) A comparison of different methods for modelling electromechanical multibody systems. (English summary)

Schmitke, C. *see* **Sass, L. et al.**
Suleman, A. Multibody dynamics and nonlinear control of flexible space structures. (English summary)
Torre, G. *see* **Fanghella, P. et al., 2005m:70043**
Willner, Kai *see* **Klimke, Andreas et al., 2005i:70007**
Wohlmuth, Barbara I. *see* **Klimke, Andreas et al., 2005i:70007**

Items with secondary classifications in 70E55

Attia, Hazem Ali Dynamic analysis of spatial linkages: a recursive approach. (English summary) **2005m:70007**
Bernardin, Frédéric (*with* Schatzman, Michelle; Lamarque, Claude-Henri) A Stochastic differential equation from friction mechanics. (English and French summaries) **2005j:60123**
Bertolazzi, Enrico (*with* Biral, F.; Da Lio, M.) Symbolic-numeric indirect method for solving optimal control problems for large multibody systems. (English summary)
Betsch, Peter A unified approach to the energy-consistent numerical integration of nonholonomic mechanical systems and flexible multibody dynamics. (English summary) **2005f:70001**
Biral, F. *see* **Bertolazzi, Enrico et al.**
Bottasso, Carlo L. (*with* Croce, Alessandro) Optimal control of multibody systems using an energy preserving direct transcription method. (English summary)
Cartmell, Matthew P. *see* **Forehand, David I. M. et al.**
Chen, Li Qun *see* **Zhao, Wei-Jia et al., 2005g:34010**
Chen, Thomas Critical manifolds and stability in Hamiltonian systems with non-holonomic constraints. (English summary) **2005d:37135**
Chernous'ko, F. L. Modelling of snake-like locomotion. (English summary) **2005j:70004**
Croce, Alessandro *see* **Bottasso, Carlo L.**
Da Lio, M. *see* **Bertolazzi, Enrico et al.**
Fetecau, R. C. (*with* Marsden, Jerrold E.; Ortiz, Michael; West, Matthew) Nonsmooth Lagrangian mechanics and variational collision integrators. (English summary) **2005e:37197**
Forehand, David I. M. (*with* Khanin, Raya; Cartmell, Matthew P.) A Lagrangian multibody code for deriving the symbolic state-space equations of motion for open-loop systems containing flexible beams. (English summary)
Fortin, Jérôme (*with* Millet, O.; de Saxcé, Géry) Numerical simulation of granular materials by an improved discrete element method. (English summary) **2005i:76113**
Funes, Francisco Javier *see* **Rodríguez, José Ignacio et al., 2005g:70002**
García de Jalón, Javier *see* **Rodríguez, José Ignacio et al., 2005g:70002**
Geike, Thomas (*with* McPhee, John J.) Inverse dynamic analysis of parallel manipulators with full mobility. (English summary) **2005m:70010**
Gerdts, Matthias Parameter optimization in mechanical multibody systems and linearized Runge-Kutta methods. (English summary) (*see* **2005a:00022**)
Glocker, Christoph (*with* Studer, Christian) Formulation and preparation for numerical evaluation of linear complementarity systems in dynamics. (English summary) **2005m:70067**
Glumov, V. M. (*with* Zemlyakov, S. D.; Rutkovskiĭ, V. Yu.; Sukhanov, V. M.) Some peculiarities of computer-aided derivation of equations of motion for a coupling of mechanical systems and their decomposition. (Russian. Russian summary) **2005m:70092**
Hippmann, Gerhard An algorithm for compliant contact between complexly shaped bodies. (English summary)
Hüeber, S. (*with* Mair, Michael; Wohlmuth, Barbara I.) A priori error estimates and an inexact primal-dual active set strategy for linear and quadratic finite elements applied to multibody contact problems. (English summary) **2005m:74094**
— (*with* Wohlmuth, Barbara I.) A primal-dual active set strategy for non-linear multibody contact problems. (English summary) **2005m:74071**
Jiménez, José Manuel *see* **Rodríguez, José Ignacio et al., 2005g:70002**
Khanin, Raya *see* **Forehand, David I. M. et al.**
Kumar, Vijay[5] *see* **Song, Peng et al., 2005b:74094**
Kunkel, Peter (*with* Mehrmann, Volker) Index reduction for differential-algebraic equations by minimal extension. (English summary) **2005d:34008**
Lamarque, Claude-Henri *see* **Bernardin, Frédéric et al., 2005j:60123**
Mair, Michael *see* **Hüeber, S. et al., 2005m:74094**
Maißer, Peter *see* **Müller, Andreas, 2005a:70005**
Marsden, Jerrold E. *see* **Fetecau, R. C. et al., 2005e:37197**
McPhee, John J. *see* **Geike, Thomas, 2005m:70010**
Mehrmann, Volker *see* **Kunkel, Peter, 2005d:34008**
Millet, O. *see* **Fortin, Jérôme et al., 2005i:76113**
Mladenov, Ivaïlo M. *see* **Mladenova, Clementina D., 2005a:70004**
Mladenova, Clementina D. (*with* Mladenov, Ivaïlo M.) An approach to diagonalizing real 3×3 symmetric matrix and mechanical applications. (English summary) **2005a:70004**
Müller, Andreas (*with* Maißer, Peter) A Lie-group formulation of kinematics and dynamics of constrained MBS and its application to analytical mechanics. (English summary) **2005a:70005**
Nagata, Takashi Variable-gain constraint stabilization for general multibody systems with applications. (English summary)
Ortiz, Michael *see* **Fetecau, R. C. et al., 2005e:37197**
Pan, Zhen-kuan *see* **Zhao, Wei-Jia et al., 2005g:34010**
Pang, Jong-Shi *see* **Song, Peng et al., 2005b:74094**
Paoli, Laetitia An existence result for non-smooth vibro-impact problems. (English summary) **2005j:34023**
— Continuous dependence on data for vibro-impact problems. (English summary) **2005j:34005**
Rodríguez, José Ignacio (*with* Jiménez, José Manuel; Funes, Francisco Javier; García de Jalón, Javier) Recursive and residual algorithms for the efficient numerical integration of multi-body systems. (English summary) **2005g:70002**
Rutkovskiĭ, V. Yu. *see* **Glumov, V. M. et al., 2005m:70092**
de Saxcé, Géry *see* **Fortin, Jérôme et al., 2005i:76113**
Schaffer, Andrei Stability of the adjoint differential-algebraic equation of the index-3 multibody system equation of motion. (English summary) **2005k:93138**
Schatzman, Michelle *see* **Bernardin, Frédéric et al., 2005j:60123**
Song, Peng (*with* Pang, Jong-Shi; Kumar, Vijay[5]) A semi-implicit time-stepping model for frictional compliant contact problems. (English summary) **2005b:74094**
Studer, Christian *see* **Glocker, Christoph, 2005m:70067**
Sukhanov, V. M. *see* **Glumov, V. M. et al., 2005m:70092**
West, Matthew *see* **Fetecau, R. C. et al., 2005e:37197**
Wohlmuth, Barbara I. *see* **Hüeber, S. et al., 2005m:74071** *and* **2005m:74094**
Zemlyakov, S. D. *see* **Glumov, V. M. et al., 2005m:70092**
Zhao, Wei-Jia (*with* Pan, Zhen-kuan; Chen, Li Qun) A theorem on the existence and uniqueness of the solution to Euler-Lagrange equations. (English and Chinese summaries) **2005g:34010**

70E60 Robot dynamics and control [see also 68T40, 70Q05, 93C85]

Agrawal, V. P. *see* **Bhangale, Prasadkumar P. et al.**
Avetisyan, Vahan Vardgesi (*with* Barsegyan, A. R.) Optimization of the control of the capture of a target object by a robot manipulator under incomplete information. (Russian. English and Armenian summaries)
Ayalew, A. *see* **Oyadiji, S. O. et al.**
Barsegyan, A. R. *see* **Avetisyan, Vahan Vardgesi**
Bergamasco, M. *see* **Gallardo-Alvarado, J. et al., 2005m:70045**
Bhangale, Prasadkumar P. (*with* Saha, Subir Kumar; Agrawal, V. P.) A dynamic model based robot arm selection criterion. (English summary)
Biswas, Arpan *see* **Suryawanshi, Anil B. et al., 2005m:70047**
Burdakov, S. F. (*with* Miroshnik, I. V.; Stel'makov, R. È.) ★ Системы управления движением колесных роботов. (Russian. English and Russian summaries) [Systems for the control of the motion of wheeled robots] **2005a:70008**
Cao, Hongjun (*with* Chi, Xue Bin; Chen, Guanrong) Suppressing or inducing chaos in a model of robot arms and mechanical manipulators. (English summary) **2005g:70007**
Checcacci, D. *see* **Gallardo-Alvarado, J. et al., 2005m:70045**
Chen, Guanrong *see* **Cao, Hongjun et al., 2005g:70007**
Cherchas, D. B. *see* **Wong, R., 2005f:70011**
Chettibi, T. (*with* Haddad, M.; Labed, A.; Hanchi, S.) Generating optimal dynamic motions for closed-chain robotic systems. (English summary)
Chi, Xue Bin *see* **Cao, Hongjun et al., 2005g:70007**
Dasgupta, Bhaskar[2] *see* **Sen, Shamik et al., 2005m:70046** *and* **Suryawanshi, Anil B. et al., 2005m:70047**
Figurina, Tatiana Controlled quasistatic motions of a two-link robot on a horizontal plane. (Russian. Russian summary) **2005e:70009**
Frangos, C. *see* **Yavin, Y.**
Frisoli, A. *see* **Gallardo-Alvarado, J. et al., 2005m:70045**
Gallardo-Alvarado, J. (*with* Rico-Martínez, José M.; Frisoli, A.; Checcacci, D.; Bergamasco, M.) Dynamics of parallel manipulators by means of screw theory. (English summary) **2005m:70045**
Ghosal, Ashitava *see* **Theodore, Rex J., 2005m:70048**
Hacioglu, Yuksel *see* **Yagiz, Nurkan**
Haddad, M. *see* **Chettibi, T. et al.**
Hanchi, S. *see* **Chettibi, T. et al.**
Herman, Przemysław Inverse dynamics control in terms of unnormalized quasi-velocities. (English summary) **2005i:70008**
Joshi, Milind B. *see* **Suryawanshi, Anil B. et al., 2005m:70047**
Kaneda, Masahiro[2] *see* **Xin, Xin et al., 2005b:70005**
Labed, A. *see* **Chettibi, T. et al.**
Lai, Eugene *see* **Oyadiji, S. O. et al.**
Mallik, Asok Kumar *see* **Sen, Shamik et al., 2005m:70046**
Mazur, Alicja Hybrid adaptive control laws solving a path following problem for non-holonomic mobile manipulators. (English summary) **2005g:70008**
Miroshnik, I. V. *see* **Burdakov, S. F. et al., 2005a:70008**
Mita, Tsutomu *see* **Xin, Xin et al., 2005b:70005**
Oyadiji, S. O. (*with* Ayalew, A.; Lai, Eugene) Analytical framework for the smooth manoeuvre of wheeled mobile robots traversing obstacles. (English summary)
Rico-Martínez, José M. *see* **Gallardo-Alvarado, J. et al., 2005m:70045**
Saha, Subir Kumar *see* **Bhangale, Prasadkumar P. et al.**
Semenova, M. M. Controllability and observability of manipulators with elastic joints. (Russian. Russian summary)
Sen, Shamik (*with* Dasgupta, Bhaskar[2]; Mallik, Asok Kumar) Variational approach for singularity-free path-planning of parallel manipulators. (English summary) **2005m:70046**
Sharma, Bibhya *see* **Vanualailai, Jito, 2005i:70009**
Stel'makov, R. È. *see* **Burdakov, S. F. et al., 2005a:70008**
Suryawanshi, Anil B. (*with* Joshi, Milind B.; Dasgupta, Bhaskar[2]; Biswas, Arpan) Domain mapping as an expeditionary strategy for fast path planning. (English summary) **2005m:70047**
Theodore, Rex J. (*with* Ghosal, Ashitava) Robust control of multilink flexible manipulators. (English summary) **2005m:70048**
Vanualailai, Jito (*with* Sharma, Bibhya) Moving a robot arm: an interesting application of the direct method of Lyapunov. (English and Spanish summaries) **2005i:70009**
Wong, R. (*with* Cherchas, D. B.) Hybrid constraint space dynamics and control for robot manipulators. (English summary) **2005f:70011**
Xin, Xin (*with* Mita, Tsutomu; Kaneda, Masahiro[2]) The posture control of a two-link free flying acrobot with initial angular momentum. (English summary) **2005b:70005**
Yagiz, Nurkan (*with* Hacioglu, Yuksel) Fuzzy sliding modes with moving surface for the robust control of a planar robot. (English summary)
Yavin, Y. (*with* Frangos, C.) Control of a three-link manipulator: collision avoidance of a moving obstacle. (English summary)
— (*with* Frangos, C.) Control of a three-link manipulator driven by three spinning disks. (English summary)

Items with secondary classifications in 70E60

Acho Zuppa, Leonardo *see* **Aguilar, L. T. et al., 2005k:93142**

Aguilar, L. T. (*with* Orlov, Yuri V.; Acho Zuppa, Leonardo) Nonlinear $\mathscr{H}_\infty$-control of nonsmooth time-varying systems with application to friction mechanical manipulators. (English summary) **2005k:93142**
— *see also* **Orlov, Yuri V., 2005e:93049**
Ailon, Amit Asymptotic stability in a flexible-joint robot with model uncertainty and multiple time delays in feedback. (English summary) **2005e:93102**
Aĭrapetyan, V. V. (*with* Gukasyan, A. A.; Manukyan, A. A.) On a problem of the optimal guaranteed control of a manipulator under incomplete information. (Russian. English and Armenian summaries)
Arimoto, Suguru (*with* Bae, Ji-Hun; Hashiguchi, H.; Ozawa, Ryuta) Natural resolution of ill-posedness of inverse kinematics for redundant robots under constraints. (English summary) **2005m:70006**
Bae, Ji-Hun *see* **Arimoto, Suguru et al., 2005m:70006**
Banavar, Ravi N. *see* **Mahindrakar, Arun D. et al., 2005m:93103**
Bertozzi, Andrea L. (*with* Kemp, Mathieu; Marthaler, Daniel) Determining environmental boundaries: asynchronous communication and physical scales. (English summary) **2005h:93109**
Blajer, Wojciech (*with* Kołodziejczyk, Krzysztof) A geometric approach to solving problems of control constraints: theory and a DAE framework. (English summary) **2005g:70049**
Blanchini, Franco (*with* Pellegrino, Felice Andrea; Visentini, Luca) Control of manipulators in a constrained workspace by means of linked invariant sets. (English summary) **2005e:93103**
Bochard, S. *see* **Gaudiller, L., 2005m:74065**
Borzova, Elena (*with* Hurmuzlu, Yildirim) Passively walking five-link robot. (English summary)
Bullo, Francesco Trajectory design for mechanical control systems: from geometry to algorithms. (English summary) **2005c:70033**
— Trajectory design for mechanical control systems: from geometry to algorithms. (English summary) **2005k:93144**
— (*with* Cortés, Jorge) Adaptive and distributed coordination algorithms for mobile sensing networks. (English summary) **2005h:93115**
Cahlon, Baruch (*with* Schmidt, Darrell) Asymptotic stability of a mechanical robotics model with damping and delay. (English summary) (*see* **2005i:00016**)
Cai, He Gao *see* **Yang, Lei et al.**
Chung, Wan Kyun *see* **Kwon, S. J., 2005d:93002**
Cohen, Reuven (*with* Peleg, David) Robot convergence via center-of-gravity algorithms. (English summary)
Cortés, Jorge *see* **Bullo, Francesco, 2005h:93115**
Ditkovskiĭ, A. E. *see* **Golubev, Yu. F., 2005h:74049**
Dong, Wenjie On trajectory and force tracking control of constrained mobile manipulators with parameter uncertainty. (English summary)
Duindam, Vincent (*with* Stramigioli, Stefano) Passive asymptotic curve tracking. (English summary) **2005m:93036**
Dzhafarov, É. M. *see* **Parlakci, M. N. A. et al.**
Feng, Yong[2] *see* **Zhang, Niao Na et al.**
Figurina, Tatiana Quasi-static motion of a two-link system along a horizontal plane. (English summary) **2005a:70003**
Fujimoto, Kenji (*with* Sugie, Toshiharu) Basic framework for I/O based optimal control of Hamiltonian systems. (English summary) **2005c:49051**
Gao, Xiao Hui *see* **Yang, Lei et al.**
Gaudiller, L. (*with* Bochard, S.) Adaptive active control of flexible structures subjected to rigid body displacements. (English summary) **2005m:74065**
Golubev, Yu. F. (*with* Ditkovskiĭ, A. E.) Control of an elastic manipulator taking into account the useful load and the force of gravity. (Russian. Russian summary) **2005h:74049**
Griesse, Roland (*with* Walther, Andrea) Using AD-generated derivatives in optimal control of an industrial robot. (English summary) (*see* **2005a:00022**)
Gukasyan, A. A. (*with* Matevosyan, A. G.) A stochastic game-theoretic problem for the control of the movement of a two-link manipulator. (Russian. Russian and Armenian summaries)
— *see also* **Aĭrapetyan, V. V. et al.**
Hahn, Hubert Mathematical modeling, control, computer simulation and laboratory experiments of a spatial servopneumatic parallel robot. I. Mathematical models, controllers, and computer simulations. (English summary)
Hashiguchi, H. *see* **Arimoto, Suguru et al., 2005m:70006**
Herman, Przemysław Sliding mode control of manipulators using first-order equations of motion with diagonal mass matrix. (English summary)
Hou, Xue-Zhang (*with* Tsui, Sze-Kai) Analysis and control of a two-link and three-joint elastic robot arm. (English summary) **2005b:93041**
— Asymptotical behavior of a flexible robot system with point-wise control. (English summary) **2005e:93104**
Hsieh, K.-Y. *see* **Wai, R.-J. et al.**
Huang, Chunqing (*with* Shi, Song Jiao) Globally robust nonlinear PID controllers for robot manipulators with an uncertain Jacobian matrix. (English summary)
Hurmuzlu, Yildirim *see* **Borzova, Elena**
Ibrir, Salim (*with* Xie, Wen Fang[1]; Su, Chun-Yi) Observer-based control of discrete-time Lipschitzian non-linear systems: application to one-link flexible joint robot. (English summary)
Indri, Marina Experimental control of a simple robot subject to impacts. (English summary) (*see* **2005b:93007**)
Istefanopulos, Y. *see* **Parlakci, M. N. A. et al.**
Izumi, Kiyotaka *see* **Yang, Xin et al.**
Jing, Xing-Jian (*with* Wang, Yue-Chao; Tan, Da-Long) Artificial coordinating field and its application to motion planning of robots in uncertain dynamic environments. (English summary) **2005j:70006**
Kemp, Mathieu *see* **Bertozzi, Andrea L. et al., 2005h:93109**
Kiguchi, Kazuo *see* **Yang, Xin et al.**
Kołodziejczyk, Krzysztof *see* **Blajer, Wojciech, 2005g:70049**
Kozłowski, Krzysztof (*with* Pazderski, Dariusz) Modeling and control of a 4-wheel skid-steering mobile robot. (English summary)
Kumar, Vijay[5] *see* **Zhang, Fan et al.**
Kwon, S. J. (*with* Chung, Wan Kyun) ★ Perturbation compensator based robust tracking control and state estimation of mechanical systems. **2005d:93002**
Lambrechts, P. F. *see* **Noijen, S. P. M. et al.**
Larin, Vladimir B. Nonsteady modes of movement of a hopping apparatus. (Russian. English, Russian and Ukrainian summaries)
— (*with* Matiyasevich, V. M.) An algorithm for the control of the spatial motion of a hopping device. (Russian. English and Ukrainian summaries)
— A spatial model of a hopping device. (Russian. English and Ukrainian summaries)
Laurie, H. (*with* Penne, R.) Projective geometry of human motion, with an application to injury risk. (English summary) **2005i:51014**
Lee, Ho-Hoon A new design approach for the anti-swing trajectory control of overhead cranes with high-speed hoisting. (English summary) **2005g:93050**
— (*with* Prevost, J.) A coupled sliding-surface approach for the trajectory control of a flexible-link robot based on a distributed dynamic model. (English summary)
Liu, Hong[9] *see* **Yang, Lei et al.**
Liu, Xueshen[1] *see* **Wang, Yu Xin**[1] **et al., 2005c:70003**
Luk′yanov, A. A. Effective visual localization of mobile robots on the basis of a probabilistic Markov localization method. (Russian. Russian summary)
Mahindrakar, Arun D. (*with* Banavar, Ravi N.; Reyhanoglu, Mahmut) Controllability and point-to-point control of 3-DOF planar horizontal underactuated manipulators. (English summary)
— (*with* Banavar, Ravi N.; Reyhanoglu, Mahmut) Corrections to: "Controllability and point-to-point control of 3-DOF planar horizontal underactuated manipulators" [Internat. J. Control **78** (2005), no. 1, 1–13; MR2115680].
— (*with* Banavar, Ravi N.) A swing-up of the acrobot based on a simple pendulum strategy. (English summary) **2005m:93103**
Manukyan, A. A. *see* **Aĭrapetyan, V. V. et al.**
Marthaler, Daniel *see* **Bertozzi, Andrea L. et al., 2005h:93109**
Marti, Kurt Adaptive optimal stochastic trajectory planning and control (AOSTPC) for robots. (English summary) **2005h:93112**
Martynenko, Yu. G. On the theory of the generalized Magnus effect for nonholonomic mechanical systems. (Russian. Russian summary) **2005k:70039**
Matevosyan, A. G. *see* **Gukasyan, A. A.**
Matiyasevich, V. M. *see* **Larin, Vladimir B.**
Matyukhin, V. I. Computer-aided integration of the motions of a discontinuous mechanical system. (Russian. Russian summary) **2005g:34014**
Miroshnik, I. V. (*with* Sergeev, K. A.) Control of spatial motion relative to moving external objects. (Russian. Russian summary) **2005k:93147**
Nijmeijer, Henk *see* **Putra, Devi, 2005f:93120** *and* **Noijen, S. P. M. et al.**
Noijen, S. P. M. (*with* Lambrechts, P. F.; Nijmeijer, Henk) An observer-controller combination for a unicycle mobile robot. (English summary)
Orlov, Yuri V. (*with* Aguilar, L. T.) Non-smooth $\mathscr{H}_\infty$-position control of mechanical manipulators with frictional joints. (English summary) **2005e:93049**
— *see also* **Aguilar, L. T. et al., 2005k:93142**
Ozawa, Ryuta *see* **Arimoto, Suguru et al., 2005m:70006**
Parlakci, M. N. A. (*with* Dzhafarov, É. M.; Istefanopulos, Y.) PD-sliding mode controller for robot manipulators: a comparison analysis. (English summary)
Pazderski, Dariusz *see* **Kozłowski, Krzysztof**
Peleg, David *see* **Cohen, Reuven**
Pellegrino, Felice Andrea *see* **Blanchini, Franco et al., 2005e:93103**
Penne, R. *see* **Laurie, H., 2005i:51014**
Pereira, Guilherme S. *see* **Zhang, Fan et al.**
Prevost, J. *see* **Lee, Ho-Hoon**
Putra, Devi (*with* Nijmeijer, Henk) Limit cycling in an observer-based controlled system with friction: numerical analysis and experimental validation. (English summary) **2005f:93120**
Raman-Nair, W. (*with* Simoes Re, A.; Veitch, B.) Dynamics of lifeboat and boom in deployment from a moving support. (English summary) **2005m:70049**
Reif, John H. (*with* Sun, Zheng[1]) On frictional mechanical systems and their computational power. (English summary) **2005f:68145**
Reyhanoglu, Mahmut *see* **Mahindrakar, Arun D. et al.**
Rouchon, Pierre[1] Flatness based control of oscillators. (English summary) **2005m:93017**
Schiehlen, Werner Energy-optimal design of walking machines. (English summary)
Schmidt, Darrell *see* **Cahlon, Baruch, (2005i:00016)**
Seo, Jin Heon *see* **Son, Young I. et al., 2005e:93106**
Sepehri, Nariman *see* **Zeng, Hairong**
Sergeev, K. A. *see* **Miroshnik, I. V., 2005k:93147**
Shi, Song Jiao *see* **Huang, Chunqing**
Shim, Hyungbo *see* **Son, Young I. et al., 2005e:93106**
Simoes Re, A. *see* **Raman-Nair, W. et al., 2005m:70049**
Skrzypczyk, Krzysztof Control of a team of mobile robots based on non-cooperative equilibria with partial coordination. (English summary) **2005j:93051**
Son, Young I. (*with* Shim, Hyungbo; Seo, Jin Heon) A dynamic output feedback control law for elastic joint robots via feedback-passivity approach. (English summary) **2005e:93106**
Stramigioli, Stefano *see* **Duindam, Vincent, 2005m:93036**
Su, Chun-Yi *see* **Ibrir, Salim et al.**
Sugie, Toshiharu *see* **Fujimoto, Kenji, 2005c:49051**
Sun, Li Xia *see* **Zhang, Niao Na et al.**
Sun, Zheng[1] *see* **Reif, John H., 2005f:68145**
Szkodny, Tadeusz Modelling and simulation of experimental robot. (English summary)
Tan, Da-Long *see* **Jing, Xing-Jian et al., 2005j:70006**
Tsui, Sze-Kai *see* **Hou, Xue-Zhang, 2005b:93041**
Tu, C.-Y. *see* **Wai, R.-J. et al.**
Veitch, B. *see* **Raman-Nair, W. et al., 2005m:70049**
Visentini, Luca *see* **Blanchini, Franco et al., 2005e:93103**
Wai, R.-J. (*with* Tu, C.-Y.; Hsieh, K.-Y.) Adaptive tracking control for robot manipulator. (English summary)

Walther, Andrea *see* **Griesse, Roland**, (2005a:00022)
Wang, Hong[5] *see* **Wen, Jin Huan**, 2005g:93081
Wang, Yiming *see* **Wang, Yu Xin**[1] **et al.**, 2005c:70003
Wang, Yu Xin[1] (*with* Wang, Yiming; Liu, Xueshen[1]) Bifurcation property and persistence of configurations for parallel mechanisms. (English summary) **2005c:70003**
Wang, Yue-Chao *see* **Jing, Xing-Jian et al.**, 2005j:70006
Watanabe, Keigo *see* **Yang, Xin et al.**
Wen, Jin Huan (*with* Wang, Hong[5]) A class of robust control strategies for trajectory tracking of uncertain robot manipulators. (Chinese. English and Chinese summaries) **2005g:93081**
Xie, Wen Fang[1] *see* **Ibrir, Salim et al.**
Yang, Lei (*with* Gao, Xiao Hui; Liu, Hong[9]; Cai, He Gao) Cartesian impedance control for HIT dexterous robot hand based on fingertip force sensor. (Chinese. English and Chinese summaries)
Yang, Xin (*with* Watanabe, Keigo; Izumi, Kiyotaka; Kiguchi, Kazuo) A decentralized control system for cooperative transportation by multiple non-holonomic mobile robots. (English summary)
Zavalishchin, S. T. Control of motion of mechanical systems in a viscous medium for optimum energy consumption. (English summary) **2005h:93031**
Zeng, Hairong (*with* Sepehri, Nariman) Non-linear position control of cooperative hydraulic manipulators handling unknown payloads. (English summary)
Zhang, Fan (*with* Pereira, Guilherme S.; Kumar, Vijay[5]) Cooperative localization and tracking in distributed robot-sensor networks. (English summary)
Zhang, Niao Na (*with* Feng, Yong[2]; Sun, Li Xia) Terminal sliding mode control of two-link flexible manipulators. (Chinese. English and Chinese summaries)

Items listed otherwise than by author

Lecture Notes in Control and Information Sciences *see* **Kwon, S. J.**, 2005d:93002

70E99 None of the above, but in this section

Derendyaev, N. V. (*with* Soldatov, I. N.) Stability of the steady motions of a rotor system with fluid in the framework of a discrete model. (Russian. Russian summary)
Gołubowska, Barbara Infinitesimal affinely-rigid bodies in Riemann spaces. (English summary)
Kovalchuk, Vasyl *see* **Sławianowski, Jan J.**
Loseva, N. N. *see* **Mironova, E. M.**, (2005m:00006)
Mironova, E. M. (*with* Loseva, N. N.) A new solution of the equations of motion of a rigid body in a magnetic field. (Russian) (*see* **2005m:00006**)
Ong, Jeun Jye (*with* O'Reilly, Oliver M.) On the equations of motion for rigid bodies with surface growth. (English summary) **2005f:70012**
O'Reilly, Oliver M. *see* **Ong, Jeun Jye**, 2005f:70012
Puta, Mircea (*with* Voicu, Constantin) Some remarks on the twisted top. (English summary) **2005j:70013**
Raman-Nair, W. (*with* Simoes Re, A.; Veitch, B.) Dynamics of lifeboat and boom in deployment from a moving support. (English summary) **2005m:70049**
Shamolin, M. V. Classes of variable dissipation systems with nonzero mean in the dynamics of a rigid body. **2005j:70014**
— Geometric representation of motion in a problem of the interaction of a body with a medium. (Russian. English and Ukrainian summaries) **2005m:70050**
Simoes Re, A. *see* **Raman-Nair, W. et al.**, 2005m:70049
Skrypnik, S. V. A class of two linear invariant relations in the problem of the motion of a body in a magnetic field. (Russian. Russian summary) (*see* **2005m:00006**)
Sławianowski, Jan J. (*with* Kovalchuk, Vasyl) Invariant geodetic problems on the projective group $\mathrm{Pr}(n, \mathbb{R})$. (English summary)
Soldatov, I. N. *see* **Derendyaev, N. V.**
Sudakov, S. N. A model problem of the motion about the center of mass of an absolutely rigid ellipsoidal shell with a viscoelastic filler. (Russian. Russian summary)
Veitch, B. *see* **Raman-Nair, W. et al.**, 2005m:70049
Voicu, Constantin *see* **Puta, Mircea**, 2005j:70013

Items with secondary classifications in 70E99

Flashner, Henryk *see* **McNitt-Gray, Jill et al.**, 2005k:92005
Gołubowska, Barbara Action-angle analysis of some geometric models of internal degrees of freedom. (English summary) **2005i:70050**
Janovská, Drahoslava (*with* Opfer, Gerhard) Fast Givens transformation for quaternion valued matrices applied to Hessenberg reductions. (English summary) **2005m:70005**
Martens, Agnieszka Hamiltonian dynamics of planar affinely-rigid body. (English summary) **2005i:70036**
— Quantization of the planar affinely-rigid body. (English summary) **2005i:70037**
Matsyuk, R. Ya. Differential geometric mechanisms in Ostrohradskyj relativistic spherical top dynamics. (English, Russian and Ukrainian summaries) **2005g:70035**
McNitt-Gray, Jill (*with* Flashner, Henryk; Requejo, Philip) Dynamic modeling of human movement during activities involving impact. (English summary) **2005k:92005**
Opfer, Gerhard *see* **Janovská, Drahoslava**, 2005m:70005
Requejo, Philip *see* **McNitt-Gray, Jill et al.**, 2005k:92005
Sudakov, S. N. Motion of a body filled with fluid of variable viscosity in the field of a fixed attracting center. (Russian. Russian summary)

70Fxx Dynamics of a system of particles, including celestial mechanics

70F05 Two-body problems

Almeida, M. A. (*with* Stuchi, T. J.) Non-integrability of the anisotropic Stormer problem with angular momentum. (English summary) **2005d:70003**
Banajh, M. A. *see* **Sharaf, M. A.**
Bărbosu, Mihai (*with* Oproiu, Tiberiu) Stability of equilibrium points in the photogravitational two-body problem. (English summary) **2005j:70015**
Chang, Dong Eui (*with* Marsden, Jerrold E.) Geometric derivation of the Delaunay variables and geometric phases. (English summary) **2005f:70013**
Cordani, Bruno From order to chaos in a perturbed Kepler problem. (English summary) **2005h:70006**
Diacu, Florin (*with* Santoprete, Manuele) On the global dynamics of the anisotropic Manev problem. (English summary) **2005c:70008**
Farach, Horacio A. *see* **Poole, Charles P., Jr. et al.**
Féjoz, Jacques (*with* Kaczmarek, Laurent) Sur le théorème de Bertrand (d'après Michael Herman). (English and French summaries) [On Bertrand's theorem (following Michael Herman)] **2005g:70009**
Hauser, Kai (*with* Lang, Reinhard) On the geometrical and physical meaning of Newton's solution to Kepler's problem. **2005a:70009**
Iñarrea, Manuel (*with* Lanchares, Víctor; Palacián, Jesús F.; Pascual, Ana I.; Salas, J. Pablo; Yanguas, Patricia) On the dynamics of charged particles around rotating magnetic planets: perturbed Keplerian motions. (English summary) **2005g:70010**
Kaczmarek, Laurent *see* **Féjoz, Jacques**, 2005g:70009
Lanchares, Víctor *see* **Iñarrea, Manuel et al.**, 2005g:70010
Lang, Reinhard *see* **Hauser, Kai**, 2005a:70009
Leach, P. G. L. (*with* Nucci, M. C.) Reduction of the classical MICZ-Kepler problem to a two-dimensional linear isotropic harmonic oscillator. (English summary) **2005f:70014**
— *see also* **Nucci, M. C.**, 2005g:70012
Maciejewski, Andrzej J. (*with* Przybylska, Maria) Non-integrability of restricted two body problems in constant curvature spaces. (English summary) **2005g:70011**
Marsden, Jerrold E. *see* **Chang, Dong Eui**, 2005f:70013
Nucci, M. C. (*with* Leach, P. G. L.) Jacobi's last multiplier and symmetries for the Kepler problem plus a lineal story. (English summary) **2005g:70012**
— *see also* **Leach, P. G. L.**, 2005f:70014
Ongay-Larios, Fausto (*with* Palacios, Celina) The Kepler problem and the Poincaré half-plane. (Spanish. Spanish summary) **2005b:70006**
Oproiu, Tiberiu *see* **Bărbosu, Mihai**, 2005j:70015
Palacián, Jesús F. *see* **Iñarrea, Manuel et al.**, 2005g:70010
Palacios, Celina *see* **Ongay-Larios, Fausto**, 2005b:70006
Pascual, Ana I. *see* **Iñarrea, Manuel et al.**, 2005g:70010
Poole, Charles P., Jr. (*with* Safko, John L.; Farach, Horacio A.) Orbits of central force law potentials. (English summary)
Przybylska, Maria *see* **Maciejewski, Andrzej J.**, 2005g:70011
Safko, John L. *see* **Poole, Charles P., Jr. et al.**
Salas, J. Pablo *see* **Iñarrea, Manuel et al.**, 2005g:70010
Santoprete, Manuele *see* **Diacu, Florin**, 2005c:70008
Sharaf, M. A. (*with* Banajh, M. A.) Error analysis for stationary one point iteration formulae of arbitrary order of convergence for solving universal Kepler's equation. (English summary)
Shchepetilov, A. V. Two-body problem on two-point homogeneous spaces, invariant differential operators and the mass center concept. (English summary) **2005k:70025**
Stuchi, T. J. *see* **Almeida, M. A.**, 2005d:70003
Szenkovits, Ferenc Two-body type problems—a topological view. (English summary) **2005i:70010**
Yanguas, Patricia *see* **Iñarrea, Manuel et al.**, 2005g:70010

Items with secondary classifications in 70F05

Abad, Alberto J. *see* **San-Juan, Juan Félix**, (2005c:00014)
Azevêdo, C. (*with* Ontaneda, Pedro) Continuous symmetric perturbations of planar power law forces. (English summary) **2005m:34100**
Bardin, B. S. On orbital stability of planar motions of symmetric satellites in cases of first and second order resonances. (English summary) **2005g:70046**
Berberan-Santos, Mário N. (*with* Bodunov, Evgeny N.; Pogliani, Lionello) Classical and quantum study of the motion of a particle in a gravitational field. (English summary)
Bodunov, Evgeny N. *see* **Berberan-Santos, Mário N. et al.**
Boyer, Timothy H. Unfamiliar trajectories for a relativistic particle in a Kepler or Coulomb potential. (English summary)
Bozis, George (*with* Kotoulas, Thomas A.) Homogeneous two-parametric families of orbits in three-dimensional homogeneous potentials. (English summary) **2005m:70061**
Chalykh, Oleg A. (*with* Veselov, A. P.) A remark on rational isochronous potentials. (English summary) **2005h:70020**
Chandrasekar, V. K. (*with* Senthilvelan, Murugaian; Lakshmanan, M.) Extended Prelle-Singer method and integrability/solvability of a class of nonlinear nth order ordinary differential equations. (English summary) **2005k:34023**
Ferrer, S. Keplerian systems: orbital elements and reductions. (English summary) **2005i:70019**
Kholshevnikov, Konstantin V. (*with* Vasil′ev, N. N.[1]) Natural metrics in the spaces of elliptic orbits. (English summary) **2005g:70025a**
— (*with* Vasil′ev, N. N.[1]) Errata: "Natural metrics in the spaces of elliptic orbits" [Celestial Mech. Dynam. Astronom. **89** (2004), no. 2, 119–125; MR2086185 (2005g:70025a)]. **2005g:70025b**
Kotoulas, Thomas A. On the determination of the generalized force field from a two-parameteric family of orbits on a given surface. (English summary) **2005m:70063**
— *see also* **Bozis, George**, 2005m:70061
Lakshmanan, M. *see* **Chandrasekar, V. K. et al.**, 2005k:34023
Minesaki, Yukitaka (*with* Nakamura, Yoshimasa) A new conservative numerical integration algorithm for the three-dimensional Kepler motion based on the Kustaanheimo-Stiefel regularization theory. (English summary) **2005a:70002**
Nakamura, Yoshimasa *see* **Minesaki, Yukitaka**, 2005a:70002
(Newton, Isaac) *see* **Pourciau, Bruce**, 2005d:01012
Ontaneda, Pedro *see* **Azevêdo, C.**, 2005m:34100
(Palacián, Jesús F.) *see* **Proceedings: Conference on Celestial Mechanics, 6th**, 2005g:70001
Pogliani, Lionello *see* **Berberan-Santos, Mário N. et al.**
Portilla B., José Gregorio (*with* Villareal, F.) An addendum to the Damour and Deruelle's solution of the post-Newtonian two-body problem. (English summary) **2005g:83035**

Pourciau, Bruce The importance of being equivalent: Newton's two models of one-body motion. (English summary) **2005d:01012**
San-Juan, Juan Félix (*with* Abad, Alberto J.) Symbolic solution of Kepler's generalized equation. (English summary) (*see* **2005c:00014**)
Senthilvelan, Murugaian *see* **Chandrasekar, V. K. et al., 2005k:34023**
Vasil'ev, N. N.[1] *see* **Kholshevnikov, Konstantin V., 2005g:70025a** *and* **2005g:70025b**
Veselov, A. P. *see* **Chalykh, Oleg A., 2005h:70020**
Villareal, F. *see* **Portilla B., José Gregorio, 2005g:83035**
(Yanguas, Patricia) *see* **Proceedings: Conference on Celestial Mechanics, 6th, 2005g:70001**

Items listed otherwise than by author

Proceedings:
Conference on Celestial Mechanics, 6th ★ Actas de las VI Jornadas de Mecánica Celeste. [Proceedings of the 6th Conference on Celestial Mechanics] **2005g:70001**
Señorío de Bértiz ★ Actas de las VI Jornadas de Mecánica Celeste. [Proceedings of the 6th Conference on Celestial Mechanics] **2005g:70001**

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Alvarez-Ramírez, Martha (*with* Delgado Fernández, Joaquín; Cors, Josep Maria) Exchange and capture in the planar restricted parabolic 3-body problem. (English summary) **2005f:70015**
Arioli, Gianni Branches of periodic orbits for the planar restricted 3-body problem. (English summary) **2005m:70051**
Biasco, Luca (*with* Chierchia, Luigi; Valdinoci, Enrico) Elliptic two-dimensional invariant tori for the planetary three-body problem. (English summary) **2005m:70052**
Celletti, Alessandra (*with* Froeschlé, Claude; Lega, Elena) Frequency analysis of the stability of asteroids in the framework of the restricted three-body problem. (English summary) **2005h:70007**
Chenciner, Alain (*with* Féjoz, Jacques; Montgomery, Richard) Rotating eights. I. The three Γ_i families. (English summary) **2005m:70053**
Chierchia, Luigi *see* **Biasco, Luca et al., 2005m:70052**
Corbera, Montserrat (*with* Llibre, Jaume; Pérez-Chavela, E.) Symmetric planar non-collinear relative equilibria for the Lennard-Jones potential 3-body problem with two equal masses. (English summary) **2005j:70016**
— (*with* Llibre, Jaume) Families of periodic orbits for the spatial isosceles 3-body problem. (English summary) **2005b:70007**
Cordani, Bruno Global study of the 2D secular 3-body problem. (English summary) **2005g:70013**
Cors, Josep Maria (*with* Llibre, Jaume) The global flow of the parabolic restricted three-body problem. (English summary) **2005j:70017**
— *see also* **Alvarez-Ramírez, Martha et al., 2005f:70015**
Cucu-Dumitrescu, C. *see* **Şelaru, D. et al., 2005k:70028**
Delgado Fernández, Joaquín *see* **Alvarez-Ramírez, Martha et al., 2005f:70015**
Dvorak, Rudolf *see* **Schwarz, Richard Christian et al.**
Érdi, Bálint Global regularization of the restricted problem of three bodies. (English summary) **2005j:70018**
Féjoz, Jacques *see* **Chenciner, Alain et al., 2005m:70053**
Freire Macías, Emilio *see* **Muñoz-Almaraz, F. J. et al., 2005g:70016**
Froeschlé, Claude *see* **Celletti, Alessandra et al., 2005h:70007**
Fujiwara, Toshiaki (*with* Fukuda, Hiroshi[2]; Ozaki, Hiroshi/asup 2) Evolution of the moment of inertia of three-body figure-eight choreography. (English summary) **2005b:70008**
— (*with* Fukuda, Hiroshi[2]; Kameyama, Atsushi; Ozaki, Hiroshi/asup 2; Yamada, Michio) Synchronized similar triangles for three-body orbits with zero angular momentum. (English summary) **2005g:70014**
Fukuda, Hiroshi[2] *see* **Fujiwara, Toshiaki et al., 2005b:70008** *and* **2005g:70014**
Galán-Vioque, J. *see* **Muñoz-Almaraz, F. J. et al., 2005g:70016**
Ghenescu, M. *see* **Şelaru, D. et al., 2005k:70028**
Gómez, Gerard (*with* Koon, Wang S.; Lo, Martin W.; Marsden, Jerrold E.; Masdemont, J.; Ross, Shane D.) Connecting orbits and invariant manifolds in the spatial restricted three-body problem. (English summary) **2005k:70026**
Gyergyovits, Markus *see* **Schwarz, Richard Christian et al.**
Henrard, Jacques (*with* Navarro, Juan F.) Families of periodic orbits emanating from homoclinic orbits in the restricted problem of three bodies. (English summary) **2005i:70011**
Jiménez-Lara, L. *see* **Piña, E., 2005g:70017**
Kameyama, Atsushi *see* **Fujiwara, Toshiaki et al., 2005g:70014**
Koon, Wang S. *see* **Gómez, Gerard et al., 2005k:70026**
Lega, Elena *see* **Celletti, Alessandra et al., 2005h:70007**
Llibre, Jaume (*with* Ollé, Mercè) Horseshoe periodic orbits in the restricted three body problem. (English summary) **2005e:70010**
— (*with* Pérez-Chavela, E.) Transversal homoclinic orbits in the collinear restricted three-body problem. (English summary) **2005k:70027**
— *see also* **Corbera, Montserrat et al., 2005b:70007**; **2005j:70016** *and* **Cors, Josep Maria, 2005j:70017**
Lo, Martin W. *see* **Gómez, Gerard et al., 2005k:70026**
Maciejewski, Andrzej J. (*with* Rybicki, Sławomir) Global bifurcations of periodic solutions of the restricted three body problem. (English summary) **2005e:70011**
Makó, Zoltán (*with* Szenkovits, Ferenc) Capture in the circular and elliptic restricted three-body problem. (English summary) **2005h:70008**
Marsden, Jerrold E. *see* **Vela-Arevalo, Luz V., 2005e:70015** *and* **Gómez, Gerard et al., 2005k:70026**
Masdemont, J. *see* **Gómez, Gerard et al., 2005k:70026**
McCord, Christopher Saari's conjecture for the planar three-body problem with equal masses. (English summary) **2005g:70015**
Métris, Gilles *see* **Spallicci, Alessandro D. A. M. et al., 2005g:70019**
Mioc, V. *see* **Şelaru, D. et al., 2005k:70028**
Moeckel, Richard A computer-assisted proof of Saari's conjecture for the planar three-body problem. (English summary) **2005m:70054**
Montgomery, Richard *see* **Chenciner, Alain et al., 2005m:70053**
Morbidelli, Alessandro *see* **Spallicci, Alessandro D. A. M. et al., 2005g:70019**
Muñoz-Almaraz, F. J. (*with* Galán-Vioque, J.; Freire Macías, Emilio) Families of symmetric periodic orbits in the three body problem and the figure eight. (English summary) **2005g:70016**
Nagler, Jan Crash test for the Copenhagen problem. (English summary) **2005e:70012**
Navarro, Juan F. *see* **Henrard, Jacques, 2005i:70011**
Nucci, M. C. Jacobi's three-body system moves like a free particle. (English summary) **2005h:70009**
Offin, Daniel (*with* Skoczylas, Wojciech) Instability of periodic orbits in the restricted three body problem. **2005e:70013**
Ollé, Mercè (*with* Pacha, Juan R.; Villanueva, Jordi) Motion close to the Hopf bifurcation of the vertical family of periodic orbits of L_4. (English summary) **2005i:70012**
— *see also* **Llibre, Jaume, 2005e:70010**
Ozaki, Hiroshi/asup 2 *see* **Fujiwara, Toshiaki et al., 2005b:70008** *and* **2005g:70014**
Pacha, Juan R. *see* **Ollé, Mercè et al., 2005i:70012**
Palacián, Jesús F. (*with* Yanguas, Patricia) Invariant manifolds of spatial restricted three-body problems: the lunar case. (English summary) **2005i:70013**
Pérez-Chavela, E. *see* **Corbera, Montserrat et al., 2005j:70016** *and* **Llibre, Jaume, 2005k:70027**
Piña, E. (*with* Jiménez-Lara, L.) Perturbing the Lagrange solution to the general three body problem. (English summary) **2005g:70017**
Prado, Antonio F. Bertachini A. *see* **Sukhanov, Alexander, 2005j:70019**
Ross, Shane D. *see* **Gómez, Gerard et al., 2005k:70026**
Rybicki, Sławomir *see* **Maciejewski, Andrzej J., 2005e:70011**
Schwarz, Richard Christian (*with* Gyergyovits, Markus; Dvorak, Rudolf) On the stability of high inclined L_4 and L_5 Trojans. (English summary)
Şelaru, D. (*with* Mioc, V.; Cucu-Dumitrescu, C.; Ghenescu, M.) Chaos in Hill's generalized problem: from the solar system to black holes. (English summary) **2005k:70028**
Sharp, P. W. Comparisons of integrators on a diverse collection of restricted three-body test problems. (English summary) **2005g:70018**
Skoczylas, Wojciech *see* **Offin, Daniel, 2005e:70013**
Spallicci, Alessandro D. A. M. (*with* Morbidelli, Alessandro; Métris, Gilles) The three-body problem and the Hannay angle. (English summary) **2005g:70019**
Sukhanov, Alexander (*with* Prado, Antonio F. Bertachini A.) Lambert problem solution in the Hill model of motion. (English summary) **2005j:70019**
Szenkovits, Ferenc *see* **Makó, Zoltán, 2005h:70008**
Tsygvintsev, A. V. Non-existence of new meromorphic first integrals in the planar three-body problem. (English summary) **2005e:70014**
Valdinoci, Enrico *see* **Biasco, Luca et al., 2005m:70052**
Vela-Arevalo, Luz V. (*with* Marsden, Jerrold E.) Time-frequency analysis of the restricted three-body problem: transport and resonance transitions. (English summary) **2005e:70015**
Villanueva, Jordi *see* **Ollé, Mercè et al., 2005i:70012**
Yamada, Michio *see* **Fujiwara, Toshiaki et al., 2005g:70014**
Yanguas, Patricia *see* **Palacián, Jesús F., 2005i:70013**

Items with secondary classifications in 70F07

Andrade, Manuel (*with* Docobo, J. A.) Stability in triple star systems with mass loss. (Spanish. Spanish summary) **2005h:70011**
Baldomá, Inmaculada (*with* Fontich, Ernest) Stable manifolds associated to fixed points with linear part equal to identity. (English summary) **2005c:37044**
Barutello, V. (*with* Terracini, Susanna) Action minimizing orbits in the n-body problem with simple choreography constraint. (English summary) **2005k:70029**
Berti, Massimiliano (*with* Biasco, Luca; Valdinoci, Enrico) Periodic orbits close to elliptic tori and applications to the three-body problem. (English summary) **2005e:37130**
Biasco, Luca *see* **Berti, Massimiliano et al., 2005e:37130**
Boucher, Delphine (*with* Weil, Jacques-Arthur) Application of J.-J. Morales and J.-P. Ramis' theorem to test the non-complete integrability of the planar three-body problem. (English summary) **2005d:37115**
Burbanks, A. *see* **Waalkens, Holger et al., 2005b:37118**
Burgos, Melissa *see* **Gidea, Marian, 2005c:70010**
Burnell, F. (*with* Malecki, Justin John; Mann, Robert B.; Ohta, Tadayuki) Chaos in an exact relativistic three-body self-gravitating system. (English summary) **2005g:83091**
Callegari, N., Jr. (*with* Michtchenko, T. A.; Ferraz-Mello, S.) Dynamics of two planets in the 2/1 mean-motion resonance. (English summary) **2005f:70020**
Celli, Martin Mouvements rigides associés à des masses positives et négatives. (English and French summaries) [Rigid motions associated with positive and negative masses] **2005m:70055**
Cvitanović, Predrag *see* **Lan, Yueheng, 2005f:37050**
(Delgado Fernández, Joaquín) *see* **New advances in celestial mechanics and Hamiltonian systems, 2005b:70001**
Docobo, J. A. *see* **Andrade, Manuel, 2005h:70011**
Faruque, S. B. Solution of the Sitnikov problem. (English summary) **2005b:70012**
Ferrario, Davide L. (*with* Terracini, Susanna) On the existence of collisionless equivariant minimizers for the classical n-body problem. (English summary) **2005b:70010**
Ferraz-Mello, S. *see* **Callegari, N., Jr. et al., 2005f:70020**
Fontich, Ernest *see* **Baldomá, Inmaculada, 2005c:37044**
Gabern, Frederic (*with* Jorba, Àngel; Robutel, Philippe) On the accuracy of restricted three-body models for the Trojan motion. (English summary) **2005h:70013**
Gidea, Marian (*with* Burgos, Melissa) Chaotic transfers in three- and four-body systems. (English summary) **2005c:70010**
Gómez, Gerard (*with* Marcote, M.; Mondelo, J. M.) The invariant manifold structure of the spatial Hill's problem. (English summary) **2005k:70035**
Grebenikov, E. A. (*with* Mitropol'skiĭ, Yuriĭ Alekseevich; Ryabov, Yu. A.) ★ Asymptotic methods in resonance analytical dynamics. **2005d:34099**
Howell, K. C. (*with* Marchand, B. G.) Natural and non-natural spacecraft formations near the L_1 and L_2 libration points in the Sun-Earth/Moon ephemeris system. (English summary) **2005h:70028**

Jorba, Àngel *see* **Gabern, Frederic et al., 2005h:70013**
(Lacomba, Ernesto A.) *see* **New advances in celestial mechanics and Hamiltonian systems, 2005b:70001**
Lan, Yueheng (*with* Cvitanović, Predrag) Variational method for finding periodic orbits in a general flow. (English summary) **2005f:37050**
(Llibre, Jaume) *see* **New advances in celestial mechanics and Hamiltonian systems, 2005b:70001**
Maciejewski, Andrzej J. *see* **Stevens, Bonnie A.**
Malecki, Justin John *see* **Burnell, F. et al., 2005g:83091**
Mann, Robert B. *see* **Burnell, F. et al., 2005g:83091**
Marchand, B. G. *see* **Howell, K. C., 2005h:70028**
Marcote, M. *see* **Gómez, Gerard et al., 2005k:70035**
Michtchenko, T. A. *see* **Callegari, N., Jr. et al., 2005f:70020**
Mitropol'skiĭ, Yuriĭ Alekseevich *see* **Grebenikov, E. A. et al., 2005d:34099**
Mondelo, J. M. *see* **Gómez, Gerard et al., 2005k:70035**
Ohta, Tadayuki *see* **Burnell, F. et al., 2005g:83091**
(Palacián, Jesús F.) *see* **Proceedings: Conference on Celestial Mechanics, 6th, 2005g:70001**
(Pérez-Chavela, E.) *see* **New advances in celestial mechanics and Hamiltonian systems, 2005b:70001**
Robutel, Philippe *see* **Gabern, Frederic et al., 2005h:70013**
Ryabov, Yu. A. *see* **Grebenikov, E. A. et al., 2005d:34099**
Stevens, Bonnie A. (*with* Maciejewski, Andrzej J.) Preface [From order to disorder in gravitational N-body dynamical systems].
Tanikawa, Kiyotaka *see* **Yamaguchi, Yoshihiro, 2005i:37047**
Terracini, Susanna *see* **Ferrario, Davide L., 2005b:70010** *and* **Barutello, V., 2005k:70029**
Valdinoci, Enrico *see* **Berti, Massimiliano et al., 2005e:37130**
Waalkens, Holger (*with* Burbanks, A.; Wiggins, Stephen) A computational procedure to detect a new type of high-dimensional chaotic saddle and its application to the 3D Hill's problem. (English summary) **2005b:37118**
Weil, Jacques-Arthur *see* **Boucher, Delphine, 2005d:37115**
Wiggins, Stephen *see* **Waalkens, Holger et al., 2005b:37118**
Yagasaki, Kazuyuki Computation of low energy Earth-to-Moon transfer with moderate flight time. (English summary) **2005f:70034**
Yamaguchi, Yoshihiro (*with* Tanikawa, Kiyotaka) Oscillatory orbits in the standard mapping. (English summary) **2005i:37047**
(Yanguas, Patricia) *see* **Proceedings: Conference on Celestial Mechanics, 6th, 2005g:70001**

Items listed otherwise than by author

Guanajuato ★ New advances in celestial mechanics and Hamiltonian systems. **2005b:70001**
New advances in celestial mechanics and Hamiltonian systems ★ New advances in celestial mechanics and Hamiltonian systems. **2005b:70001**
Proceedings:
Conference on Celestial Mechanics, 6th ★ Actas de las VI Jornadas de Mecánica Celeste. [Proceedings of the 6th Conference on Celestial Mechanics] **2005g:70001**
Señorío de Bértiz ★ Actas de las VI Jornadas de Mecánica Celeste. [Proceedings of the 6th Conference on Celestial Mechanics] **2005g:70001**

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Albouy, A. (*with* Stuchi, T. J.) Generalizing the classical fixed-centres problem in a non-Hamiltonian way. (English summary) **2005f:70016**
Alvarez-Ramírez, Martha (*with* Delgado Fernández, Joaquín) Central configurations of the symmetric restricted 4-body problem. (English summary) **2005a:70010**
Barutello, V. (*with* Terracini, Susanna) Action minimizing orbits in the n-body problem with simple choreography constraint. (English summary) **2005k:70029**
Brihaye, Yves (*with* Giller, S.; Gonera, Cezary; Kosiński, Piotr; Maślanka, Paweł) Quadratic integrals of motion for the systems of identical particles. (English summary) **2005i:70014**
Burgos, Melissa *see* **Gidea, Marian, 2005c:70010**
Calogero, Francesco A technique to identify solvable dynamical systems, and another solvable extension of the goldfish many-body problem. (English summary) **2005k:70030**
Celli, Martin Sur les distances mutuelles d'une chorégraphie à masses distinctes. (English and French summaries) [Mutual distances for a choreography with distinct masses] **2005b:70009**
— Mouvements rigides associés à des masses positives et négatives. (English and French summaries) [Rigid motions associated with positive and negative masses] **2005m:70055**
Chen, Kuo-Chang Binary decompositions for planar N-body problems and symmetric periodic solutions. (English summary) **2005c:70009**
Chenciner, Alain Perverse solutions of the planar n-body problem. (English and French summaries) **2005g:70020**
Chowdhury, Indranil (*with* Jandhyala, Vikram) Single level multipole expansions and operators for potentials of the form $r^{-\lambda}$. (English summary) **2005j:70020**
Delgado Fernández, Joaquín (*with* Vidal, Claudio) Blow up of total collision in the tetrahedral non-rotating four body problem. (English summary) **2005e:70016**
— *see also* **Alvarez-Ramírez, Martha, 2005a:70010**
Dullin, Holger R. *see* **Waalkens, Holger et al., 2005k:70034**
Efroimsky, Michael (*with* Goldreich, Peter) Gauge symmetry of the N-body problem in the Hamilton-Jacobi approach. (English summary) **2005a:70011**
Ferrario, Davide L. (*with* Terracini, Susanna) On the existence of collisionless equivariant minimizers for the classical n-body problem. (English summary) **2005b:70010**
Gidea, Marian (*with* Burgos, Melissa) Chaotic transfers in three- and four-body systems. (English summary) **2005c:70010**
Giller, S. *see* **Brihaye, Yves et al., 2005i:70014**
Goldreich, Peter *see* **Efroimsky, Michael, 2005a:70011**
Gómez-Ullate Oteiza, D. (*with* Sommacal, Matteo) Periods of the goldfish many-body problem. (English summary) **2005i:70015**
Gonera, Cezary *see* **Brihaye, Yves et al., 2005i:70014**
Grebenikov, E. A. (*with* Zemtsova, N. I.; Ikhsanov, E. V.) Theorems on the stability of stationary solutions of the restricted ten-body problem for the third-order resonance case. (Russian. Russian summary) **2005k:70031**
— (*with* Prokopenya, A. N.) On the existence of a new class of exact solutions in the plane Newtonian many-body problem. (Russian. Russian summary) **2005k:70032**
Guillot, Adolfo The Painlevé property for quasihomogenous systems and a many-body problem in the plane. (English summary) **2005m:70056**
Ikhsanov, E. V. *see* **Grebenikov, E. A. et al., 2005k:70031**
Iwai, Toshihiro Stratified reduction of many-body dynamical systems. (English summary) **2005c:70011**
Jandhyala, Vikram *see* **Chowdhury, Indranil, 2005j:70020**
Khushalani, B. Equilibrium configurations based on Platonic geometries. (English summary) **2005f:70017**
Kosiński, Piotr *see* **Brihaye, Yves et al., 2005i:70014**
Maślanka, Paweł *see* **Brihaye, Yves et al., 2005i:70014**
McCord, Christopher Syzygies and the integral manifolds of the spatial N-body problem. (English summary) **2005c:70012**
Mironov, S. V. Determination of the stationary solutions of the Newtonian annular restricted fourteen-body problem. (Russian. Russian summary) **2005k:70033**
Nucci, M. C. Calogero's 'goldfish' is indeed a school of free particles. (English summary) **2005g:70021**
Prokopenya, A. N. *see* **Grebenikov, E. A., 2005k:70032**
Renildo, Gonçalo *see* **Vidal, Claudio, 2005i:70017**
Richter, Peter H. *see* **Waalkens, Holger et al., 2005k:70034**
Sano, Mitsusada M. The classical Coulomb three-body problem in the collinear eZe configuration. (English summary) **2005e:70017**
Sekiguchi, Masayoshi Bifurcation of central configuration in the $2N+1$ body problem. (English summary) **2005j:70021**
Sideris, Ioannis V. The validity of the continuum limit in the gravitational N-body problem. (English summary) **2005h:70010**
Simionescu-Panait, Olivian On the relative motion of systems of particles. (English summary) **2005i:70016**
Sommacal, Matteo *see* **Gómez-Ullate Oteiza, D., 2005i:70015**
Somsikov, V. M. Equilibration of a hard-disks system. (English summary)
Stuchi, T. J. *see* **Albouy, A., 2005f:70016**
Terracini, Susanna *see* **Ferrario, Davide L., 2005b:70010** *and* **Barutello, V., 2005k:70029**
Vidal, Claudio (*with* Renildo, Gonçalo) Homographic solutions in the n-body problem. (English summary) **2005i:70017**
— *see also* **Delgado Fernández, Joaquín, 2005e:70016**
Waalkens, Holger (*with* Dullin, Holger R.; Richter, Peter H.) The problem of two fixed centers: bifurcations, actions, monodromy. (English summary) **2005k:70034**
Xia, Zhihong Convex central configurations for the n-body problem. (English summary) **2005f:70018**
Yang, Dadi (*with* Zhang, Shi Qing) Necessary conditions for central configurations of six-body problems. (English summary) **2005e:70018**
Zemtsova, N. I. *see* **Grebenikov, E. A. et al., 2005k:70031**
Zhang, Shi Qing Central configurations for n-body problems. (English summary)
— The lower bound of the Lagrangian action for spatial 4-body problems. (English summary) **2005i:70018**
— *see also* **Yang, Dadi, 2005e:70018**

Items with secondary classifications in 70F10

Babelon, O. On the quantum inverse problem for the closed Toda chain. (English summary) **2005d:81175**
Ballesteros, Angel (*with* Ragnisco, Orlando) Classical dynamical systems from q-algebras: 'cluster' variables and explicit solutions. (English summary) **2005b:70020**
Borisov, Alekseĭ Vladimirovich (*with* Mamaev, I. S.; Kilin, A. A.) Two-body problem on a sphere. Reduction, stochasticity, periodic orbits. (English summary) **2005k:37199**
Bruschi, Mario (*with* Calogero, Francesco) Convenient parameterizations of matrices in terms of vectors. (English summary) **2005i:15051**
Bui, Q. V. Energy conserving and dissipative time finite element schemes for N-body stiff problems. (English summary) **2005e:70001**
Calogero, Francesco A technique to identify solvable dynamical systems, and a solvable generalization of the goldfish many-body problem. (English summary) **2005d:37119**
— *see also* **Bruschi, Mario, 2005i:15051**
Corbera, Montserrat (*with* Llibre, Jaume; Pérez-Chavela, E.) Symmetric planar non-collinear relative equilibria for the Lennard-Jones potential 3-body problem with two equal masses. (English summary) **2005j:70016**
Cors, Josep Maria (*with* Llibre, Jaume; Ollé, Mercè) Central configurations of the planar coorbital satellite problem. (English summary) **2005h:70012**
Féjoz, Jacques Démonstration du 'théorème d'Arnold' sur la stabilité du système planétaire (d'après Herman). (English and French summaries) [Proof of 'Arnol'd's theorem' on the stability of a planetary system (following Herman)] **2005i:37101**
Greenspan, Donald ★ N-body problems and models. **2005h:70002**
Hardin, Douglas P. (*with* Saff, Edward B.) Minimal Riesz energy point configurations for rectifiable d-dimensional manifolds. (English summary) **2005m:49006**
Heggie, Douglas (*with* Hut, Piet) ★ The gravitational million-body problem. **2005j:85003**
Hoppe, Ronald H. W. *see* **Revnic, Adrian et al.**
Hut, Piet *see* **Heggie, Douglas, 2005j:85003**
Iwai, Toshihiro (*with* Yamaoka, Hidetaka) Stratified reduction of many-body kinetic energy operators. (English summary) **2005e:81076**
Kilin, A. A. *see* **Borisov, Alekseĭ Vladimirovich et al., 2005k:37199**
Knauf, Andreas (*with* Taimanov, Iskander A.) On the integrability of the n-centre problem. (English summary) **2005k:37128**
Llibre, Jaume *see* **Cors, Josep Maria et al., 2005h:70012** *and* **Corbera, Montserrat et al., 2005j:70016**
Lynden-Bell, Donald (*with* Lynden-Bell, R. M.) Relaxation to a perpetually pulsating equilibrium. (English summary) **2005i:82039**
Lynden-Bell, R. M. *see* **Lynden-Bell, Donald, 2005i:82039**
Malecki, Justin John (*with* Mann, Robert B.) Three-body dynamics in a $(1+1)$-dimensional relativistic self-gravitating system. (English summary) **2005e:83067**
Mamaev, I. S. *see* **Borisov, Alekseĭ Vladimirovich et al., 2005k:37199**
Mann, Robert B. *see* **Malecki, Justin John, 2005e:83067**

McCord, Christopher Saari's conjecture for the planar three-body problem with equal masses. (English summary) **2005g:70015**
Moeckel, Richard A computer-assisted proof of Saari's conjecture for the planar three-body problem. (English summary) **2005m:70054**
Ollé, Mercè *see* **Cors, Josep Maria et al., 2005h:70012**
Pérez-Chavela, E. *see* **Corbera, Montserrat et al., 2005j:70016**
Persson, Fredrik (*with* Rauch-Wojciechowski, Stefan) Triangular Newton equations with maximal number of integrals of motion. (English summary) **2005k:37129**
Ragnisco, Orlando *see* **Ballesteros, Angel, 2005b:70020**
Rauch-Wojciechowski, Stefan *see* **Persson, Fredrik, 2005k:37129**
Renner, Stéfan (*with* Sicardy, Bruno) Stationary configurations for co-orbital satellites with small arbitrary masses. (English summary) **2005c:70013**
Revnic, Adrian (*with* Hoppe, Ronald H. W.; Sibona, Gustavo) The numerical analysis of some systems of differential equations arising from molecular dynamics. (English summary)
Saff, Edward B. *see* **Hardin, Douglas P., 2005m:49006**
Sibona, Gustavo *see* **Revnic, Adrian et al.**
Sicardy, Bruno *see* **Renner, Stéfan, 2005c:70013**
Taimanov, Iskander A. *see* **Knauf, Andreas, 2005k:37128**
Yamaoka, Hidetaka *see* **Iwai, Toshihiro, 2005e:81076**
Zhang, Shi Qing (*with* Zhou, Qing[1]) Nonplanar periodic solutions with a fixed energy for Newtonian-like $N \geq 4$-body problems in R^k ($k \geq 3$). (English summary) **2005b:37139**
— (*with* Zhou, Qing[1]) Nonplanar and noncollision periodic solutions for N-body problems. (English summary) **2005e:37138**
Zhou, Qing[1] *see* **Zhang, Shi Qing, 2005b:37139** *and* **2005e:37138**

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Ammar, M. K. Asteroid motion near the 2 : 1 commensurability. (English and Arabic summaries)
Andrade, Manuel (*with* Docobo, J. A.) Stability in triple star systems with mass loss. (Spanish. Spanish summary) **2005h:70011**
Benet, L. (*with* Merlo, O.) Phase-space structure for narrow planetary rings. (English summary) **2005f:70019**
Berkovich, Lev M. (*with* Starinova, O. L.) The Gylden-Meshcherskiĭ problem: trajectories of motion. (Russian. English and Russian summaries) **2005j:70022**
Callegari, N., Jr. (*with* Michtchenko, T. A.; Ferraz-Mello, S.) Dynamics of two planets in the 2/1 mean-motion resonance. (English summary) **2005f:70020**
Cendra, Hernán (*with* Marsden, Jerrold E.) Geometric mechanics and the dynamics of asteroid pairs. (English summary) **2005j:70023**
Contopoulos, G. (*with* Efstathiou, K.) Escapes and recurrence in a simple Hamiltonian system. (English summary) **2005b:70011**
Cordani, Bruno Geometry of Poincaré's variables and the secular planetary problem. (English summary) **2005j:70024**
Cors, Josep Maria (*with* Llibre, Jaume; Ollé, Mercè) Central configurations of the planar coorbital satellite problem. (English summary) **2005h:70012**
D'Hoedt, Sandrine (*with* Lemaitre, Anne) The spin-orbit resonant rotation of Mercury: a two degree of freedom Hamiltonian model. (English summary) **2005g:70022**
Docobo, J. A. *see* **Andrade, Manuel, 2005h:70011**
Domingos, R. C. (*with* Winter, O. C.) Possibility of collision between co-orbital asteroids and the Earth. (English summary)
Dvorak, Rudolf *see* **Funk, Barbara et al.**
Efroimsky, Michael Long-term evolution of orbits about a precessing oblate planet. I. The case of uniform precession. (English summary) **2005j:70025**
Efstathiou, K. *see* **Contopoulos, G., 2005b:70011**
Elipe Sánchez, Antonio C. (*with* Lara, Martín) A simple model for the chaotic motion around (433) Eros. (English summary) **2005g:70023**
Érdi, Bálint *see* **Funk, Barbara et al.**
Faruque, S. B. Solution of the Sitnikov problem. (English summary) **2005b:70012**
Ferraz-Mello, S. *see* **Callegari, N., Jr. et al., 2005f:70020**
Ferrer, S. Keplerian systems: orbital elements and reductions. (English summary) **2005i:70019**
Font, Andreea *see* **Stoica, Cristina, 2005a:70015**
Freistetter, F. *see* **Funk, Barbara et al.**
Funk, Barbara (*with* Lohinger, E.; Dvorak, Rudolf; Freistetter, F.; Érdi, Bálint) Resonances in multiple planetary systems. (English summary)
Gabern, Frederic (*with* Jorba, Àngel; Robutel, Philippe) On the accuracy of restricted three-body models for the Trojan motion. (English summary) **2005h:70013**
— (*with* Jorba, Àngel; Locatelli, Ugo) On the construction of the Kolmogorov normal form for the Trojan asteroids. (English summary) **2005m:70057**
Georgakarakos, Nikolaos Eccentricity generation in hierarchical triple systems with non-coplanar and initially circular orbits. (English summary) **2005a:70012**
Gómez, Gerard (*with* Marcote, M.; Mondelo, J. M.) The invariant manifold structure of the spatial Hill's problem. (English summary) **2005k:70035**
Gronchi, Giovanni F. *see* **Milani, Andrea et al., 2005i:70021**
Gurfil, Pini Analysis of J_2-perturbed motion using mean non-osculating orbital elements. (English summary) **2005i:70020**
Hadjidemetriou, J. D. *see* **Voyatzis, G. et al., 2005j:70028**
Henrard, Jacques (*with* Schwanen, Gabriel) Rotation of synchronous satellites. (English summary) **2005m:70058**
— The rotation of Europa. (English summary) **2005j:70026**
Hong, Shen Variational minimizing solutions for the 2-fixed center problems. (English summary) **2005m:70059**
Jiang, Ing-Guey (*with* Yeh, Li-Chin) Dynamical effects from asteroid belts for planetary systems. (English summary) **2005g:70024**
Jorba, Àngel *see* **Gabern, Frederic et al., 2005h:70013** *and* **2005m:70057**
Kholshevnikov, Konstantin V. (*with* Kurdubov, Sergei L.) Convergence of Liapunov series for Huygens-Roche figures. (English summary) **2005a:70013**
— (*with* Vasil′ev, N. N.[1]) Natural metrics in the spaces of elliptic orbits. (English summary) **2005g:70025a**
— (*with* Kurdubov, Sergei L.) Errata: "Convergence of Liapunov series for Huygens-Roche figures" [Celestial Mech. Dynam. Astronom. **89** (2004), no. 1, 83–96; MR2063968 (2005a:70013)].
— (*with* Vasil′ev, N. N.[1]) Errata: "Natural metrics in the spaces of elliptic orbits" [Celestial Mech. Dynam. Astronom. **89** (2004), no. 2, 119–125; MR2086185 (2005g:70025a)]. **2005g:70025b**
Klačka, Jozef Electromagnetic radiation and motion of a particle. (English summary) **2005a:70014**
Knežević, Zoran *see* **Milani, Andrea et al., 2005i:70021**
Kotoulas, Thomas A. *see* **Voyatzis, G. et al., 2005j:70028**
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Lemaitre, Anne *see* **D'Hoedt, Sandrine, 2005g:70022**
Llibre, Jaume *see* **Cors, Josep Maria et al., 2005h:70012**
Locatelli, Ugo *see* **Gabern, Frederic et al., 2005m:70057**
Lohinger, E. *see* **Funk, Barbara et al.**
Marcote, M. *see* **Gómez, Gerard et al., 2005k:70035**
Marsden, Jerrold E. *see* **Cendra, Hernán, 2005j:70023**
Melita, M. D. (*with* Papaloizou, J. C. B.) Resonantly forced eccentric ringlets: relationships between surface density, resonance location, eccentricity and eccentricity-gradient. (English summary) **2005j:70027**
Merlo, O. *see* **Benet, L., 2005f:70019**
de' Michieli Vitturi, Mattia *see* **Milani, Andrea et al., 2005i:70021**
Michtchenko, T. A. *see* **Callegari, N., Jr. et al., 2005f:70020**
Milani, Andrea (*with* Gronchi, Giovanni F.; de' Michieli Vitturi, Mattia; Knežević, Zoran) Orbit determination with very short arcs. I. Admissible regions. (English summary) **2005i:70021**
Mitchell, Jason William *see* **Richardson, D. L., 2005c:70014**
Mondelo, J. M. *see* **Gómez, Gerard et al., 2005k:70035**
Montojo, F. J. (*with* Lara, Martín) Improvement of an analytic theory for orbital motion around Europa. (Spanish. Spanish summary) (*see* **2005g:70001**)
Nagler, Jan Crash test for the restricted three-body problem. (English summary) **2005m:70060**
Ollé, Mercè *see* **Cors, Josep Maria et al., 2005h:70012**
Palacios, Manuel Partitioned Runge-Kutta methods and redundant orbital problems. (Spanish. Spanish summary) **2005g:70026**
Papaloizou, J. C. B. *see* **Melita, M. D., 2005j:70027**
Renner, Stéfan (*with* Sicardy, Bruno) Stationary configurations for co-orbital satellites with small arbitrary masses. (English summary) **2005c:70013**
Richardson, D. L. (*with* Mitchell, Jason William) A third-order analytical solution for relative motion with a circular reference orbit. (English summary) **2005c:70014**
Robutel, Philippe *see* **Gabern, Frederic et al., 2005h:70013**
Scheeres, D. J. Bounds on rotation periods of disrupted binaries in the full 2-body problem. (English summary) **2005i:70022**
Schwanen, Gabriel *see* **Henrard, Jacques, 2005m:70058**
Sicardy, Bruno *see* **Renner, Stéfan, 2005c:70013**
Starinova, O. L. *see* **Berkovich, Lev M., 2005j:70022**
Stoica, Cristina (*with* Font, Andreea) Global dynamics in the singular logarithmic potential. (English summary) **2005a:70015**
Vasil′ev, N. N.[1] *see* **Kholshevnikov, Konstantin V., 2005g:70025a** *and* **2005g:70025b**
Voyatzis, G. (*with* Kotoulas, Thomas A.; Hadjidemetriou, J. D.) Symmetric and nonsymmetric periodic orbits in the exterior mean motion resonances with Neptune (English summary) **2005j:70028**
Vozmishcheva, T. G. Topological analysis of integrable problems of celestial mechanics on a sphere and pseudosphere. **2005h:70014**
Winter, O. C. *see* **Domingos, R. C.**
Yeh, Li-Chin *see* **Jiang, Ing-Guey, 2005g:70024**

Items with secondary classifications in 70F15

Abad, Alberto J. (*with* San-Juan, Juan Félix; Serrano Pastor, Sergio) Zonal model for orbits of satellites around Mars. (Spanish. Spanish summary) (*see* **2005g:70001**)
Abd El-Salam, F. A. (*with* Ahmed, Mostafa Kamal Mahmoud; Radwan, M.) The post-Newtonian effects in the critical inclination problem in artificial satellite theory. (English summary) **2005h:70025**
— (*with* Ahmed, Mostafa Kamal Mahmoud) Canonical solution of the critical inclination problem taking into account PN-corrections. (English summary) **2005h:70026**
— (*with* Sehnal, L.) The effects of the terrestrial infrared radiation pressure on the earth's artificial satellite dynamics. (English summary)
Ahmed, Mostafa Kamal Mahmoud *see* **Abd El-Salam, F. A. et al., 2005h:70025** *and* **2005h:70026**
Alvarez-Ramirez, Martha (*with* Delgado Fernández, Joaquín) Central configurations of the symmetric restricted 4-body problem. (English summary) **2005a:70010**
— (*with* Delgado Fernández, Joaquín; Cors, Josep Maria) Exchange and capture in the planar restricted parabolic 3-body problem. (English summary) **2005f:70015**
Anastassi, Z. A. (*with* Simos, T. E.) An optimized Runge-Kutta method for the solution of orbital problems. (English summary)
Andrés, Y. N. (*with* Pelaez, Jesus) Stability of electrodynamic tethers in inclined elliptical orbit. (Spanish. Spanish summary) **2005g:70045**
Bekov, A. A. An integrable case of the Hamilton-Jacobi equation for a class of dynamical systems. II. A generalization of the Darboux-Demin case. (Russian. English, Russian and Kazakh summaries) **2005i:70044**
Berry, Matthew M. (*with* Healy, Liam M.) Implementation of Gauss-Jackson integration for orbit propagation. (English summary) **2005m:70003**
Blanes, Sergio (*with* Budd, Chris J.) Explicit adaptive symplectic (easy) integrators: a scaling invariant generalisation of the Levi-Civita and KS regularisations. (English summary) **2005f:70021**
Blesa, F. (*with* Elipe Sánchez, Antonio C.; Lara, Martín) Quasi-geostationary and quasi-periodic orbits with control. (Spanish. Spanish summary) (*see* **2005g:70001**)
Breiter, Sławomir (*with* Métris, Gilles; Vokrouhlický, David) Generalized Hansen coefficients. (English summary) **2005a:70031**

Brumberg, V. A. *see* **Krasinskiĭ, G. A., 2005h:85001**
Budd, Chris J. *see* **Blanes, Sergio, 2005f:70021**
Caranicolas, N. D. (*with* Papadopoulos, N. J.) The role of physical quantities in determining the chaotic nature of orbits in barred galaxies. (English summary) **2005j:85001**
Carpintero, D. D. *see* **Muzzio, J. C. et al.**
Casalino, Lorenzo (*with* Colasurdo, Guido) Optimal control of a grey solar sail for interplanetary missions. (English summary) **2005h:49094**
Cefola, Paul J. *see* **Draim, John E. et al., 2005c:70029**
Celletti, Alessandra (*with* Froeschlé, Claude; Lega, Elena) From regular to chaotic motions through the work of Kolmogorov. (English summary) **2005b:37129**
— (*with* Froeschlé, Claude; Lega, Elena) Frequency analysis of the stability of asteroids in the framework of the restricted three-body problem. (English summary) **2005h:70007**
Celli, Martin Mouvements rigides associés à des masses positives et négatives. (English and French summaries) [Rigid motions associated with positive and negative masses] **2005m:70055**
Chenciner, Alain (*with* Féjoz, Jacques; Montgomery, Richard) Rotating eights. I. The three Γ_i families. (English summary) **2005m:70053**
Ciarcià, M. *see* **Miele, Angelo et al., 2005g:70047**
Cicci, D. A. *see* **Rossi, E. V. et al., 2005b:70031**
Cochran, J. E., Jr. *see* **Rossi, E. V. et al., 2005b:70031**
Colasurdo, Guido *see* **Casalino, Lorenzo, 2005h:49094**
Cors, Josep Maria (*with* Llibre, Jaume) The global flow of the parabolic restricted three-body problem. (English summary) **2005j:70017**
— *see also* **Alvarez-Ramírez, Martha et al., 2005f:70015**
Costa De Beauregard, O. To believe or not believe in the 4-potential, that's a question. The electric Helmholtz-Mikhailov effect and its magnetic analog. (English summary) **2005m:78004**
Delgado Fernández, Joaquín *see* **Alvarez-Ramírez, Martha et al., 2005a:70010**; **2005f:70015** *and* **New advances in celestial mechanics and Hamiltonian systems, 2005b:70001**
Draim, John E. (*with* Cefola, Paul J.; Proulx, Ronald J.; Larsen, Duane; Granholm, George) Elliptical sun-synchronous orbits with line of apsides lying in or near the equatorial plane. (English summary) **2005c:70029**
Dvorak, Rudolf *see* **Schwarz, Richard Christian et al.**
Efroimsky, Michael (*with* Goldreich, Peter) Gauge symmetry of the N-body problem in the Hamilton-Jacobi approach. (English summary) **2005a:70011**
Elipe Sánchez, Antonio C. Rotations of perturbed triaxial rigid bodies. (English summary) **2005k:70010**
— *see also* **Blesa, F. et al., (2005g:70001)**
Érdi, Bálint *see* **Sándor, Zsolt et al., 2005h:37079**
Féjoz, Jacques Démonstration du 'théorème d'Arnold' sur la stabilité du système planétaire (d'après Herman). (English and French summaries) [Proof of 'Arnol′d's theorem' on the stability of a planetary system (following Herman)] **2005i:37101**
— *see also* **Chenciner, Alain et al., 2005m:70053**
Froeschlé, Claude *see* **Celletti, Alessandra et al., 2005b:37129** *and* **2005h:70007**
Fujiwara, Toshiaki (*with* Fukuda, Hiroshi[2]; Kameyama, Atsushi; Ozaki, Hiroshi/asup 2; Yamada, Michio) Synchronized similar triangles for three-body orbits with zero angular momentum. (English summary) **2005g:70014**
Fukuda, Hiroshi[2] *see* **Fujiwara, Toshiaki et al., 2005g:70014**
Funk, Barbara *see* **Sándor, Zsolt et al., 2005h:37079**
Goldreich, Peter *see* **Efroimsky, Michael, 2005a:70011**
Gómez, Gerard (*with* Koon, Wang S.; Lo, Martin W.; Marsden, Jerrold E.; Masdemont, J.; Ross, Shane D.) Connecting orbits and invariant manifolds in the spatial restricted three-body problem. (English summary) **2005k:70026**
Granholm, George *see* **Draim, John E. et al., 2005c:70029**
Grioli, Giuseppe Dynamics of the rigid bodies and celestial mechanics. (*see* **2005c:00016**)
Gyergyovits, Markus *see* **Schwarz, Richard Christian et al.**
Healy, Liam M. *see* **Berry, Matthew M., 2005m:70003**
Hechler, M. (*with* Langevin, Y.; Yáñez, A.) Mars express orbit design evolution. (English summary) **2005h:70027**
Henrard, Jacques The adiabatic invariant theory and applications. **2005m:70069**
(Hooke, Robert) *see* **Nauenberg, Michael, 2005m:70002**
Howell, K. C. (*with* Marchand, B. G.) Natural and non-natural spacecraft formations near the L_1 and L_2 libration points in the Sun-Earth/Moon ephemeris system. (English summary) **2005h:70028**
Iñarrea, Manuel (*with* Lanchares, Víctor; Palacián, Jesús F.; Pascual, Ana I.; Salas, J. Pablo; Yanguas, Patricia) On the dynamics of charged particles around rotating magnetic planets: perturbed Keplerian motions. (English summary) **2005g:70010**
— (*with* Lanchares, Víctor; Palacián, Jesús F.; Pascual, Ana I.; Salas, J. Pablo; Yanguas, Patricia) The Keplerian regime of charged particles in planetary magnetospheres. (English summary) **2005h:85002**
Kameyama, Atsushi *see* **Fujiwara, Toshiaki et al., 2005g:70014**
Knauf, Andreas (*with* Taimanov, Iskander A.) Integrability of the n-center problem at high energies. (Russian) **2005h:70019**
(Kolmogorov, Andreĭ Nikolaevich) *see* **Celletti, Alessandra et al., 2005b:37129**
Koon, Wang S. *see* **Gómez, Gerard et al., 2005k:70026** *and* **Serban, Radu et al., 2005m:70084**
Kosenko, I. I. A computational model of shock interactions in an orbital tethered system. II. (Russian. English and Russian summaries) (*see* **2005c:70001**)
Kossenko, I. I. On preservation of conditionally-periodic satellite librations in elliptic orbit with account of solar light pressure. (English summary) **2005c:70030**
Krasinskiĭ, G. A. (*with* Brumberg, V. A.) Secular increase of astronomical unit from analysis of the major planet motions, and its interpretation. (English summary) **2005h:85001**
(Lacomba, Ernesto A.) *see* **New advances in celestial mechanics and Hamiltonian systems, 2005b:70001**
Lanchares, Víctor *see* **Iñarrea, Manuel et al., 2005g:70010** *and* **2005h:85002**
Langevin, Y. *see* **Hechler, M. et al., 2005h:70027**
Lara, Martín *see* **Blesa, F. et al., (2005g:70001)**
Larsen, Duane *see* **Draim, John E. et al., 2005c:70029**
Lega, Elena *see* **Celletti, Alessandra et al., 2005b:37129** *and* **2005h:70007**
Llibre, Jaume (*with* Pérez-Chavela, E.) Transversal homoclinic orbits in the collinear restricted three-body problem. (English summary) **2005k:70027**
— *see also* **New advances in celestial mechanics and Hamiltonian systems, 2005b:70001** *and* **Cors, Josep Maria, 2005j:70017**
Lo, Martin W. *see* **Gómez, Gerard et al., 2005k:70026** *and* **Serban, Radu et al., 2005m:70084**
Maciejewski, Andrzej J. *see* **Stevens, Bonnie A.**
Mancuso, S. *see* **Miele, Angelo et al., 2005b:70030**
Marchand, B. G. *see* **Howell, K. C., 2005h:70028**
Markov, Yu. G. (*with* Sinitsyn, I. N.) Spectral-correlation models of fluctuations in the rotation of the Earth. (Russian) **2005i:86002**
Marsden, Jerrold E. *see* **Vela-Arevalo, Luz V., 2005e:70015**; **Gómez, Gerard et al., 2005k:70026** *and* **Serban, Radu et al., 2005m:70084**
Masdemont, J. *see* **Gómez, Gerard et al., 2005k:70026**
Mathwig, J. *see* **Miele, Angelo et al., 2005g:70047**
Métris, Gilles *see* **Breiter, Sławomir et al., 2005a:70031** *and* **Spallicci, Alessandro D. A. M. et al., 2005g:70019**
Miele, Angelo On feasibility of interplanetary travel: the flight from earth to mars and back. (English summary) (*see* **2005a:00024**)
— (*with* Wang, Tong[2]; Mancuso, S.) Optimal round-trip Earth-Mars trajectories for robotic flight and manned flight. (English summary) **2005b:70030**
— (*with* Ciarcià, M.; Mathwig, J.) Reflections on the Hohmann transfer. (English summary) **2005g:70047**
Miller, James K. *see* **Weeks, Connie, 2005m:70088**
Moeckel, Richard A computer-assisted proof of Saari's conjecture for the planar three-body problem. (English summary) **2005m:70054**
Montgomery, Richard *see* **Chenciner, Alain et al., 2005m:70053**
Morbidelli, Alessandro (*with* Nicholson, Phil) Preface [Papers from the XXXVth Annual Meeting of the Division of Dynamic Astronomy of the American Astronomical Society].
— *see also* **Spallicci, Alessandro D. A. M. et al., 2005g:70019**
Muzzio, J. C. (*with* Carpintero, D. D.; Wachlin, F. C.) Spatial structure of regular and chaotic orbits in a self-consistent triaxial stellar system. (English summary)
Nauenberg, Michael Robert Hooke's seminal contribution to orbital dynamics. (English summary) **2005m:70002**
Nicholson, Phil *see* **Morbidelli, Alessandro**
Ozaki, Hiroshi/asup 2 *see* **Fujiwara, Toshiaki et al., 2005g:70014**
Palacián, Jesús F. *see* **Proceedings: Conference on Celestial Mechanics, 6th, 2005g:70001**; **Iñarrea, Manuel et al., 2005g:70010** *and* **2005h:85002**
Papadopoulos, N. J. *see* **Caranicolas, N. D., 2005j:85001**
Papaloizou, J. C. B. Disk planet interactions and early evolution in Young planetary systems. (English summary) **2005j:85005**
Pascual, Ana I. *see* **Iñarrea, Manuel et al., 2005g:70010** *and* **2005h:85002**
Pelaez, Jesus *see* **Andrés, Y. N., 2005g:70045**
Pérez-Chavela, E. *see* **New advances in celestial mechanics and Hamiltonian systems, 2005b:70001** *and* **Llibre, Jaume, 2005k:70027**
Petzold, Linda R. *see* **Serban, Radu et al., 2005m:70084**
Prado, Antonio F. Bertachini A. Bi-impulsive control to build a satellite constellation. (English summary) **2005m:70083**
— *see also* **Sukhanov, Alexander, 2005j:70019**
Proulx, Ronald J. *see* **Draim, John E. et al., 2005c:70029**
Radwan, M. *see* **Abd El-Salam, F. A. et al., 2005h:70025**
Ross, Shane D. *see* **Gómez, Gerard et al., 2005k:70026** *and* **Serban, Radu et al., 2005m:70084**
Rossi, E. V. (*with* Cicci, D. A.; Cochran, J. E., Jr.) Existence of periodic motions of a tether trailing satellite. (English summary) **2005b:70031**
Saari, Donald G. Geometry of chaotic and stable discussions. **2005e:91050**
Salas, J. Pablo *see* **Iñarrea, Manuel et al., 2005g:70010** *and* **2005h:85002**
Sándor, Zsolt (*with* Érdi, Bálint; Széll, András; Funk, Barbara) The relative Lyapunov indicator: an efficient method of chaos detection. (English summary) **2005h:37079**
San-Juan, Juan Félix *see* **Abad, Alberto J. et al., (2005g:70001)**
Schwarz, Richard Christian (*with* Gyergyovits, Markus; Dvorak, Rudolf) On the stability of high inclined L_4 and L_5 Trojans. (English summary)
Sehnal, L. *see* **Abd El-Salam, F. A.**
Serban, Radu (*with* Koon, Wang S.; Lo, Martin W.; Marsden, Jerrold E.; Petzold, Linda R.; Ross, Shane D.; Wilson, Roby S.) Halo orbit mission correction maneuvers using optimal control. (English summary) **2005m:70084**
Serrano Pastor, Sergio *see* **Abad, Alberto J. et al., (2005g:70001)**
Sharp, P. W. Comparisons of integrators on a diverse collection of restricted three-body test problems. (English summary) **2005g:70018**
Simos, T. E. *see* **Anastassi, Z. A.**
Sinitsyn, I. N. *see* **Markov, Yu. G., 2005i:86002**
Spallicci, Alessandro D. A. M. (*with* Morbidelli, Alessandro; Métris, Gilles) The three-body problem and the Hannay angle. (English summary) **2005g:70019**
Stevens, Bonnie A. (*with* Maciejewski, Andrzej J.) Preface [From order to disorder in gravitational N-body dynamical systems].
Sukhanov, Alexander (*with* Prado, Antonio F. Bertachini A.) Lambert problem solution in the Hill model of motion. (English summary) **2005j:70019**
Széll, András *see* **Sándor, Zsolt et al., 2005h:37079**
Szenkovits, Ferenc ★ Metode topologice în mecanica cerească. (Romanian) [Topological methods in celestial mechanics] **2005i:70029**
— Two-body type problems—a topological view. (English summary) **2005i:70010**
Taimanov, Iskander A. *see* **Knauf, Andreas, 2005h:70019**
Vela-Arevalo, Luz V. (*with* Marsden, Jerrold E.) Time-frequency analysis of the restricted three-body problem: transport and resonance transitions. (English summary) **2005e:70015**
Vokrouhlický, David *see* **Breiter, Sławomir et al., 2005a:70031**
Vozmishcheva, T. G. ★ Integrable problems of celestial mechanics in spaces of constant curvature. **2005a:37099**
Wachlin, F. C. *see* **Muzzio, J. C. et al.**
Wang, Tong[2] *see* **Miele, Angelo et al., 2005b:70030**
Weeks, Connie (*with* Miller, James K.) A gravity model for navigation close to asteroids and comets. (English summary) **2005m:70088**

Wilson, Roby S. *see* **Serban, Radu et al., 2005m:70084**
Yagasaki, Kazuyuki Sun-perturbed Earth-to-Moon transfers with low energy and moderate flight time. (English summary) **2005j:70055**
— Computation of low energy Earth-to-Moon transfer with moderate flight time. (English summary) **2005f:70034**
Yamada, Michio *see* **Fujiwara, Toshiaki et al., 2005g:70014**
Yáñez, A. *see* **Hechler, M. et al., 2005h:70027**
Yanguas, Patricia *see* **Proceedings: Conference on Celestial Mechanics, 6th, 2005g:70001; Iñarrea, Manuel et al., 2005g:70010** *and* **2005h:85002**

Items listed otherwise than by author

Guanajuato ★ New advances in celestial mechanics and Hamiltonian systems. **2005b:70001**
New advances in celestial mechanics and Hamiltonian systems ★ New advances in celestial mechanics and Hamiltonian systems. **2005b:70001**
Proceedings:
Conference on Celestial Mechanics, 6th ★ Actas de las VI Jornadas de Mecánica Celeste. [Proceedings of the 6th Conference on Celestial Mechanics] **2005g:70001**
Señorío de Bértiz ★ Actas de las VI Jornadas de Mecánica Celeste. [Proceedings of the 6th Conference on Celestial Mechanics] **2005g:70001**

70F16 Collisions in celestial mechanics, regularization

Blanes, Sergio (*with* Budd, Chris J.) Explicit adaptive symplectic (easy) integrators: a scaling invariant generalisation of the Levi-Civita and KS regularisations. (English summary) **2005f:70021**
Budd, Chris J. *see* **Blanes, Sergio, 2005f:70021**

Items with secondary classifications in 70F16

Delgado Fernández, Joaquín (*with* Vidal, Claudio) Blow up of total collision in the tetrahedral non-rotating four body problem. (English summary) **2005e:70016**
Diacu, Florin (*with* Santoprete, Manuele) On the global dynamics of the anisotropic Manev problem. (English summary) **2005c:70008**
Domingos, R. C. (*with* Winter, O. C.) Possibility of collision between co-orbital asteroids and the Earth. (English summary)
Érdi, Bálint Global regularization of the restricted problem of three bodies. (English summary) **2005j:70018**
Ferrario, Davide L. (*with* Terracini, Susanna) On the existence of collisionless equivariant minimizers for the classical n-body problem. (English summary) **2005b:70010**
Fujiwara, Toshiaki (*with* Fukuda, Hiroshi[2]; Kameyama, Atsushi; Ozaki, Hiroshi/asup 2; Yamada, Michio) Synchronized similar triangles for three-body orbits with zero angular momentum. (English summary) **2005g:70014**
Fukuda, Hiroshi[2] *see* **Fujiwara, Toshiaki et al., 2005g:70014**
Kameyama, Atsushi *see* **Fujiwara, Toshiaki et al., 2005g:70014**
Ozaki, Hiroshi/asup 2 *see* **Fujiwara, Toshiaki et al., 2005g:70014**
Santoprete, Manuele *see* **Diacu, Florin, 2005c:70008**
Terracini, Susanna *see* **Ferrario, Davide L., 2005b:70010**
Varvoglis, H. (*with* Vozikis, Ch.; Wodnar, K.) The two fixed centers: an exceptional integrable system. (English summary) **2005f:70026**
Vidal, Claudio *see* **Delgado Fernández, Joaquín, 2005e:70016**
Vozikis, Ch. *see* **Varvoglis, H. et al., 2005f:70026**
Winter, O. C. *see* **Domingos, R. C.**
Wodnar, K. *see* **Varvoglis, H. et al., 2005f:70026**
Yamada, Michio *see* **Fujiwara, Toshiaki et al., 2005g:70014**

70F17 Inverse problems

Anisiu, Mira-Cristiana An alternative point of view on the equations of the inverse problem of dynamics. (English summary) **2005h:70015**
— *see also* **Bozis, George, 2005m:70062**
Bozis, George (*with* Kotoulas, Thomas A.) Homogeneous two-parametric families of orbits in three-dimensional homogeneous potentials. (English summary) **2005m:70061**
— (*with* Anisiu, Mira-Cristiana) A solvable version of the inverse problem of dynamics. (English summary) **2005m:70062**
Kotoulas, Thomas A. On the determination of the generalized force field from a two-parameteric family of orbits on a given surface. (English summary) **2005m:70063**
— *see also* **Bozis, George, 2005m:70061**

70F20 Holonomic systems

Ciccotti, Giovanni (*with* Kalibaeva, Galina) Deterministic and stochastic algorithms for mechanical systems under constraints. (English summary) **2005c:70015**
Fang, Jian Hui *see* **Li, Hong**
Frigioiu, Camelia Lagrangian geometrization in mechanics. (English summary) **2005i:70023**
Hartmann, Carsten (*with* Schütte, Christof) A geometric approach to constrained molecular dynamics and free energy. (English summary) **2005k:70036**
Hedrih, Katica The dissipation function of a nonconservative system of mass particles. (English summary) **2005b:70013**
Kalibaeva, Galina *see* **Ciccotti, Giovanni, 2005c:70015**
Li, Hong (*with* Fang, Jian Hui) Mei symmetry of variable mass systems with unilateral holonomic constraints. (Chinese. English and Chinese summaries)
Mušicki, Djordje Relative motion of systems in a parametric formulation of mechanics. (English and Serbian summaries) **2005b:70014**
Schütte, Christof *see* **Hartmann, Carsten, 2005k:70036**
Yoshimura, Hiroaki Duality and complementarity in constrained mechanical systems. (English summary) **2005i:70024**

Items with secondary classifications in 70F20

Čović, V. M. (*with* Vesković, M. M.) Hagedorn's theorem in some special cases of rheonomic systems. (English summary) **2005k:70046**
Leutin, A. P. Extremal property of the constraint reactions of systems of coupled bodies. (Russian. Russian summary) **2005b:70005**
Maißer, Peter *see* **Müller, Andreas, 2005a:70005**
Müller, Andreas (*with* Maißer, Peter) A Lie-group formulation of kinematics and dynamics of constrained MBS and its application to analytical mechanics. (English summary) **2005a:70005**
Sergi, Alessandro Generalized bracket formulation of constrained dynamics in phase space. (English summary) **2005e:82063**
Serrani, Andrea *see* **Tarn, Tzyh-Jong et al., 2005d:70006**
Tarn, Tzyh-Jong (*with* Zhang, Ming Jun[2]; Serrani, Andrea) New integrability conditions for classifying holonomic and nonholonomic systems. (English summary) **2005d:70006**
Udwadia, Firdaus E. On a general principle of mechanics and its application to general non-ideal nonholonomic constraints. (English summary) **2005e:70027**
Vesković, M. M. *see* **Čović, V. M., 2005k:70046**
Zhang, Ming Jun[2] *see* **Tarn, Tzyh-Jong et al., 2005d:70006**
Zhang, Yi[7] Form invariance and non-Noether conserved quantity for holonomic mechanical systems with remainder coordinates. (Chinese. English and Chinese summaries)

70F25 Nonholonomic systems

Bloch, Anthony M. (*with* Marsden, Jerrold E.; Zenkov, D. V.) Nonholonomic dynamics. **2005k:70037**
Canudas de Wit, Carlos *see* **Perram, John W. et al., 2005c:70017**
Cendra, Hernán (*with* Ibort, Luis Alberto; de León, Manuel; Martín de Diego, David) A generalization of Chetaev's principle for a class of higher order nonholonomic constraints. (English summary) **2005d:70004**
Chen, Li Qun *see* **Zhang, Hong Bin[1] et al.**
Chen, Pei Sheng *see* **Fang, Jian Hui et al., 2005k:70038**
Crăciun, Dana (*with* Opriş, Dumitru) Discrete-continuous mechanical systems with nonholonomic constraints. (English summary) **2005g:70027**
Fang, Jian Hui (*with* Chen, Pei Sheng; Zhang, Jun) Form invariance and Lie symmetry of variable mass nonholonomic mechanical system. (Chinese. English and Chinese summaries) **2005k:70038**
Flannery, M. R. The enigma of nonholonomic constraints. (English summary) **2005i:70025**
Furta, Stanislav (*with* Zampieri, Gaetano) Cruising in a central force field. (English summary) **2005j:70029**
Gao, Puyun To derive Lagrange equations of nonholonomic systems without using the Chetaev conditions. (English summary) **2005m:70064**
García Pérez, Pedro Luis (*with* Rodrigo, C.) The momentum map in vakonomic mechanics. (English summary) **2005m:70065**
Gràcia, Xavier (*with* Martín, Rubén) Nonholonomic systems and the relativistic particle. (English summary) **2005j:70030**
— (*with* Martín, Rubén) Regularity and symmetries of nonholonomic systems. (English summary) **2005m:70066**
Grognard, Frédéric *see* **Perram, John W. et al., 2005c:70017**
Gu, Shu Long (*with* Zhang, Hong Bin[1]) Form invariance of mechanical systems with higher-order integrable differential constraints. (Chinese. English and Chinese summaries)
— *see also* **Zhang, Hong Bin[1] et al.**
Guo, Yong Xin *see* **Luo, Shao Kai et al.**
Ibort, Luis Alberto *see* **Cendra, Hernán et al., 2005d:70004**
Kalenova, V. I. (*with* Morozov, V. M.) On the stability of steady motions of nonholonomic mechanical systems with cyclic coordinates. (Russian. Russian summary) **2005a:70016**
— (*with* Morozov, V. M.; Salmina, M. A.) On the stability and stabilization of the steady motions of nonholonomic mechanical systems of a certain class. (Russian. Russian summary) **2005j:70031**
Kobayashi, Marcelo H. *see* **Terra, Gláucio, 2005e:70021**
Koiller, Jair *see* **de M. Rios, Pedro, 2005e:70019**
Kovačić, Ivana The generalized Lagrange's equations of the second kind and the field method for their integration. (English and Serbo-Croatian summaries) **2005d:70005**
de León, Manuel *see* **Cendra, Hernán et al., 2005d:70004**
Li, Ai Min (*with* Zhang, Ying[8]; Li, Zi Ping) Poincaré-Cartan integral invariant of a nonholonomic constrained generalized mechanical system. (Chinese. English and Chinese summaries)
Li, Ren Jie *see* **Qiao, Yong Fen et al.**
Li, Zi Ping *see* **Li, Ai Min et al.**
Lou, Zhi Mei Form invariance of second-order linear nonholonomic systems in phase space. (Chinese. English and Chinese summaries) **2005c:70016**
— Lie symmetries and conserved quantities of third-order linear nonholonomic systems with unilateral constraint in a phase space. (Chinese. English and Chinese summaries)
Luo, Shao Kai (*with* Mei, Feng Xiang) A non-Noether conserved quantity, i.e. Hojman conserved quantity, for nonholonomic mechanical systems. (Chinese. English and Chinese summaries) **2005a:70017**
— (*with* Guo, Yong Xin; Mei, Feng Xiang) Noether symmetry and Hojman conserved quantity for nonholonomic mechanical systems. (Chinese. English and Chinese summaries)
— (*with* Guo, Yong Xin; Mei, Feng Xiang) Form invariance and Hojman conserved quantity for nonholonomic mechanical systems. (Chinese. English and Chinese summaries)
Marsden, Jerrold E. *see* **Bloch, Anthony M. et al., 2005k:70037**
Martín, Rubén *see* **Gràcia, Xavier, 2005j:70030** *and* **2005m:70066**
Martín de Diego, David *see* **Cendra, Hernán et al., 2005d:70004**
Martynenko, Yu. G. On the theory of the generalized Magnus effect for nonholonomic mechanical systems. (Russian. Russian summary) **2005k:70039**
Mei, Feng Xiang *see* **Luo, Shao Kai et al., 2005a:70017** *and* **Zhang, Yi[7], 2005c:70018**
Morozov, V. M. *see* **Kalenova, V. I. et al., 2005a:70016** *and* **2005j:70031**
de M. Rios, Pedro (*with* Koiller, Jair) Non-holonomic systems with symmetry allowing a conformally symplectic reduction. (English summary) **2005e:70019**

Mukharlyamov, R. G. Control of the dynamics of Chaplygin systems. (Russian. Russian summary) **2005k:70040**
Muñoz-Lecanda, Miguel C. (*with* Yániz-Fernández, F. Javier) A global study of the stability of nonholonomic dissipative systems. (English summary) **2005e:70020**
Opriş, Dumitru *see* **Crăciun, Dana**, **2005g:70027**
Perram, John W. (*with* Shiryaev, A. S.; Canudas de Wit, Carlos; Grognard, Frédéric) Explicit formula for a general integral of motion for a class of mechanical systems subject to holonomic constraint. (English summary) **2005c:70017**
Pfeiffer, Friedrich G. Unilateral problems of dynamics. (English summary) **2005b:70015**
Qiao, Yong Fen (*with* Zhao, Shu Hong; Li, Ren Jie) A non-Noether conserved quantity of holonomic mechanical systems in terms of quasi-coordinates—an extension of the Hojman theorem. (Chinese. English and Chinese summaries)
Rodrigo, C. *see* **García Pérez, Pedro Luis**, **2005m:70065**
Salmina, M. A. *see* **Kalenova, V. I. et al.**, **2005j:70031**
Serrani, Andrea *see* **Tarn, Tzyh-Jong et al.**, **2005d:70006**
Shiryaev, A. S. *see* **Perram, John W. et al.**, **2005c:70017**
Tarn, Tzyh-Jong (*with* Zhang, Ming Jun[2]; Serrani, Andrea) New integrability conditions for classifying holonomic and nonholonomic systems. (English summary) **2005d:70006**
Terra, Gláucio (*with* Kobayashi, Marcelo H.) On classical mechanical systems with nonlinear constraints. (English summary) **2005e:70021**
Yániz-Fernández, F. Javier *see* **Muñoz-Lecanda, Miguel C.**, **2005e:70020**
Zampieri, Gaetano *see* **Furta, Stanislav**, **2005j:70029**
Zenkov, D. V. *see* **Bloch, Anthony M. et al.**, **2005k:70037**
Zhang, Hong Bin[1] (*with* Chen, Li Qun; Gu, Shu Long) Lie symmetries and non-Noether conserved quantities of nonholonomic systems. (English summary)
— (*with* Chen, Li Qun) Characteristic functional structure of infinitesimal symmetry transformations for nonholonomic system. (English summary)
— *see also* **Gu, Shu Long**
Zhang, Jun *see* **Fang, Jian Hui et al.**, **2005k:70038**
Zhang, Ming Jun[2] *see* **Tarn, Tzyh-Jong et al.**, **2005d:70006**
Zhang, Yi[7] (*with* Mei, Feng Xiang) Effects of non-conservative forces and nonholonomic constraints on Noether symmetries of a Lagrangian system. (Chinese. English and Chinese summaries) **2005c:70018**
Zhang, Ying[8] *see* **Li, Ai Min et al.**
Zhao, Shu Hong *see* **Qiao, Yong Fen et al.**

Items with secondary classifications in 70F25

Betsch, Peter A unified approach to the energy-consistent numerical integration of nonholonomic mechanical systems and flexible multibody dynamics. (English summary) **2005f:70001**
Bicchi, Antonio (*with* Chitour, Yacine; Marigo, Alessia) Reachability and steering of rolling polyhedra: a case study in discrete nonholonomy. (English summary) **2005b:93009**
Blankenstein, Guido A joined geometric structure for Hamiltonian and gradient control systems. (English summary) **2005c:37174**
Borisov, Alekseĭ Vladimirovich (*with* Mamaev, I. S.; Kilin, A. A.) Dynamics of rolling disk. (English summary) **2005e:37139**
Brogliato, Bernard Absolute stability and the Lagrange-Dirichlet theorem with monotone multivalued mappings. (English summary) **2005i:93064**
Chen, Li Qun *see* **Zhao, Wei-Jia et al.**, **2005g:34010**
Chen, Thomas Critical manifolds and stability in Hamiltonian systems with non-holonomic constraints. (English summary) **2005d:37135**
Chitour, Yacine *see* **Bicchi, Antonio et al.**, **2005b:93009**
Cortés, Jorge *see* **de León, Manuel et al.**, **2005c:49053**
Drakunov, S. V. (*with* Floquet, Thierry; Perruquetti, Wilfrid) Stabilization and tracking control for an extended Heisenberg system with a drift. (English summary) **2005k:93145**
Ehlers, Kurt (*with* Koiller, Jair; Montgomery, Richard; de M. Rios, Pedro) Nonholonomic systems via moving frames: Cartan equivalence and Chaplygin Hamiltonization. (English summary) **2005k:37138**
Fedorov, Yu. N. (*with* Jovanović, Božidar Žarko) Nonholonomic LR systems as generalized Chaplygin systems with an invariant measure and flows on homogeneous spaces. (English summary) **2005d:37136**
Floquet, Thierry *see* **Drakunov, S. V. et al.**, **2005k:93145**
Francis, Bruce A. *see* **Lin, Zhi Yun et al.**, **2005g:93079**
Frangos, C. (*with* Yavin, Y.) Control of the motion of a small-scale car with four steerable wheels. (English summary)
Fujimoto, Kenji (*with* Sakurama, Kazunori; Sugie, Toshiharu) Trajectory tracking control of nonholonomic Hamiltonian systems via generalized canonical transformations. (English summary) **2005k:93146**
Izumi, Kiyotaka *see* **Yang, Xin et al.**
Jadbabaie, Ali *see* **Tanner, Herbert G. et al.**, **2005h:70032**
Jin, Bo *see* **Zhao, Yue-yu et al.**
Jovanović, Božidar Žarko *see* **Fedorov, Yu. N.**, **2005d:37136**
Kalaba, Robert E. *see* **Udwadia, Firdaus E. et al.**
Kaneda, Masahiro[2] *see* **Xin, Xin et al.**, **2005b:70005**
Kharlamov, A. P. Visualization of the periodic inertial motions of a body fastened at a fixed point by a nonholonomic hinge. (Russian. Russian summary) **2005m:70034**
Kiguchi, Kazuo *see* **Yang, Xin et al.**
Kilin, A. A. *see* **Borisov, Alekseĭ Vladimirovich et al.**, **2005e:37139**
Kobayashi, Marcelo H. *see* **Terra, Gláucio**, **2005d:37138**
Koiller, Jair *see* **Ehlers, Kurt et al.**, **2005k:37138**
de León, Manuel (*with* Martín de Diego, David; Santamaría-Merino, Aitor) Geometric numerical integration of nonholonomic systems and optimal control problems. (English summary) (*see* **2005b:93007**)
— (*with* Martín de Diego, David; Santamaría-Merino, Aitor) Geometric numerical integration of nonholonomic systems and optimal control problems. (English summary) **2005k:49097**
— (*with* Cortés, Jorge; Martín de Diego, David; Martínez, Sonia) General symmetries in optimal control. (English summary) **2005c:49053**
Levi, Mark Lectures on geometrical methods in mechanics. **2005d:37175**
Lin, Zhi Yun (*with* Francis, Bruce A.; Maggiore, Manfredi) Necessary and sufficient graphical conditions for formation control of unicycles. (English summary) **2005g:93079**
Maggiore, Manfredi *see* **Lin, Zhi Yun et al.**, **2005g:93079**
Mamaev, I. S. *see* **Borisov, Alekseĭ Vladimirovich et al.**, **2005e:37139**
Marigo, Alessia *see* **Bicchi, Antonio et al.**, **2005b:93009**
Martín de Diego, David *see* **de León, Manuel et al.**, **2005c:49053**; **2005k:49097** *and* (**2005b:93007**)
Martínez, Sonia *see* **de León, Manuel et al.**, **2005c:49053**
Matyukhin, V. I. Controllability of nonholonomic mechanical systems in the class of bounded controls. (Russian. Russian summary) **2005j:93012**
Mazur, Alicja Hybrid adaptive control laws solving a path following problem for nonholonomic mobile manipulators. (English summary) **2005g:70008**
Mita, Tsutomu *see* **Xin, Xin et al.**, **2005b:70005**
Montgomery, Richard *see* **Ehlers, Kurt et al.**, **2005k:37138**
de M. Rios, Pedro *see* **Ehlers, Kurt et al.**, **2005k:37138**
Ortega, Juan-Pablo (*with* Planas-Bielsa, Víctor) Dynamics on Leibniz manifolds. (English summary) **2005e:37140**
Pan, Zhen-kuan *see* **Zhao, Wei-Jia et al.**, **2005g:34010**
Paoli, Laetitia Problèmes de vibro-impact: étude de la dépendance par rapport aux données. (English and French summaries) {Vibro-impact problems: study of dependence on the data} **2005f:34024**
Pappas, George J. *see* **Tanner, Herbert G. et al.**, **2005h:70032**
Perruquetti, Wilfrid *see* **Drakunov, S. V. et al.**, **2005k:93145**
Phohomsiri, Phailaung *see* **Udwadia, Firdaus E. et al.**
Pitanga, Paulo (*with* Rodrigues, Paulo R.) Projection methods for some constrained systems. (English summary) **2005a:37107**
Planas-Bielsa, Víctor *see* **Ortega, Juan-Pablo**, **2005e:37140**
Ramos, Arturo Poisson structures for reduced non-holonomic systems. (English summary) **2005d:37137**
Rodrigues, Paulo R. *see* **Pitanga, Paulo**, **2005a:37107**
Sakurama, Kazunori *see* **Fujimoto, Kenji et al.**, **2005k:93146**
Sampei, Mitsuji Nonholonomic control experiments—what we have learned from experiments. (English summary) (*see* **2005b:93007**)
Santamaría-Merino, Aitor *see* **de León, Manuel et al.**, **2005k:49097** *and* (**2005b:93007**)
Sosnits'kiĭ, S. P. On the stability of the equilibrium of gyroscopically coupled systems. (Ukrainian. English and Ukrainian summaries) **2005d:70010**
Sugie, Toshiharu *see* **Fujimoto, Kenji et al.**, **2005k:93146**
Tanner, Herbert G. ISS properties of nonholonomic vehicles. (English summary) **2005f:93156**
— (*with* Jadbabaie, Ali; Pappas, George J.) Flocking in teams of nonholonomic agents. (English summary) **2005h:70032**
Tarasov, V. E. Stationary solutions of Liouville equations for non-Hamiltonian systems. (English summary) **2005j:70044**
Terra, Gláucio (*with* Kobayashi, Marcelo H.) On the variational mechanics with nonlinear constraints. (English and French summaries) **2005d:37138**
Udwadia, Firdaus E. On a general principle of mechanics and its application to general nonideal nonholonomic constraints. (English summary) **2005e:70027**
— (*with* Kalaba, Robert E.; Phohomsiri, Phailaung) Mechanical systems with nonideal constraints: explicit equations without the use of generalized inverses. (English summary)
— On constrained motion. (English summary) **2005m:70071**
Watanabe, Keigo *see* **Yang, Xin et al.**
Xin, Xin (*with* Mita, Tsutomu; Kaneda, Masahiro[2]) The posture control of a two-link free flying acrobot with initial angular momentum. (English summary) **2005b:70005**
Xu, Wen-xi *see* **Zhao, Yue-yu et al.**
Yang, Xin (*with* Watanabe, Keigo; Izumi, Kiyotaka; Kiguchi, Kazuo) A decentralized control system for cooperative transportation by multiple non-holonomic mobile robots. (English summary)
Yavin, Y. *see* **Frangos, C.**
Yoshimura, Hiroaki Duality and complementarity in constrained mechanical systems. (English summary) **2005i:70024**
Zhao, Wei-Jia (*with* Pan, Zhen-kuan; Chen, Li Qun) A theorem on the existence and uniqueness of the solution to Euler-Lagrange equations. (English and Chinese summaries) **2005g:34010**
Zhao, Yue-yu (*with* Jin, Bo; Xu, Wen-xi) Equivalence of Chetaev model and Vacco model in ideal nonholonomic system and active realization nonideal nonholonomic system. (English summary)
Zimmerman, Jason A. Optimal control of the sphere S^n rolling on E^n. (English summary) **2005m:49036**

70F35 Collision of rigid or pseudo-rigid bodies

Alecu, Aurel *see* **Buracu, Victor**
Buracu, Victor (*with* Alecu, Aurel) An extension of Carnot's theorem for rigid body collisions. (English summary)
Cataldo, Edson (*with* Sampaio, Rubens) A new model of rigid bodies collision: the C-S model. (English summary) **2005b:70016**
— (*with* Sampaio, Rubens) A review of rigid-body collision models in the plane. (English summary) **2005b:70017**
Chen, Bin[4] *see* **Zhao, Zhen et al.**, **2005j:70032** *and* **Yao, Wenli et al.**
Gal'perin, G. A. Billiard balls count π. **2005i:70026**
Glocker, Christoph Newton's and Poisson's impact law for the non-convex case of re-entrant corners. (English summary) **2005i:70027**
Jin, Hai *see* **Zhao, Zhen et al.**, **2005j:70032**
Liu, Caishan *see* **Zhao, Zhen et al.**, **2005j:70032** *and* **Yao, Wenli et al.**
Sampaio, Rubens *see* **Cataldo, Edson**, **2005b:70016** *and* **2005b:70017**
Yao, Wenli (*with* Chen, Bin[4]; Liu, Caishan) Energetic coefficient of restitution for a planar two-body oblique collision with friction. (English summary)
Zhao, Zhen (*with* Chen, Bin[4]; Liu, Caishan; Jin, Hai) Impact model resolution on Painlevé's paradox. (English summary) **2005j:70032**

Items with secondary classifications in 70F35

Agulló i Batlle, Joaquim Rough collisions in multibody systems. Restitution rules and energetical consistency. (English summary) **2005c:70007**
Anitescu, Mihai (*with* Hart, Gary D.) A constraint-stabilized time-stepping approach for rigid multibody dynamics with joints, contact and friction. (English summary) **2005e:70007**
Bonetti, Elena (*with* Frémond, Michel) Collisions and fracture: a 1-D theory. How to tear off a chandelier from the ceiling. (English summary) **2005e:74047**
Cabot, Alexandre Bounce law at the corners of convex billiards. (English summary) **2005e:34019**
Fetecau, R. C. (*with* Marsden, Jerrold E.; Ortiz, Michael; West, Matthew) Nonsmooth Lagrangian mechanics and variational collision integrators. (English summary) **2005e:37197**
Frémond, Michel *see* **Bonetti, Elena, 2005e:74047**
Glocker, Christoph (*with* Studer, Christian) Formulation and preparation for numerical evaluation of linear complementarity systems in dynamics. (English summary) **2005m:70067**
Hart, Gary D. *see* **Anitescu, Mihai, 2005e:70007**
Lenci, Stefano (*with* Rega, Giuseppe) Regular nonlinear dynamics and bifurcations of an impacting system under general periodic excitation. (English summary) **2005c:70026**
Marsden, Jerrold E. *see* **Fetecau, R. C. et al., 2005e:37197**
Ortiz, Michael *see* **Fetecau, R. C. et al., 2005e:37197**
Radnović, Milena A note on billiard systems in Finsler plane with elliptic indicatrices. (English summary) **2005e:37118**
Rega, Giuseppe *see* **Lenci, Stefano, 2005c:70026**
Studer, Christian *see* **Glocker, Christoph, 2005m:70067**
West, Matthew *see* **Fetecau, R. C. et al., 2005e:37197**
Wylie, Jonathan J. (*with* Zhang, Qiang[1]) Periodic orbits of a one-dimensional inelastic particle system. (English and French summaries) **2005h:82072**
Zhang, Qiang[1] *see* **Wylie, Jonathan J., 2005h:82072**

70F40 Problems with friction

Fassois, Spilios D. *see* **Rizos, Demosthenis D., 2005a:70018**
Ferretti, Gianni (*with* Magnani, Gianantonio; Rocco, Paolo) Single and multistate integral friction models. (English summary) **2005g:70028**
Glocker, Christoph (*with* Studer, Christian) Formulation and preparation for numerical evaluation of linear complementarity systems in dynamics. (English summary) **2005m:70067**
Glowinski, Roland (*with* Shiau, LieJune; Kuo, Ying Ming; Nasser, G.) The numerical simulation of friction constrained motions. I. One degree of freedom models. (English summary) **2005b:70018**
Kuo, Ying Ming *see* **Glowinski, Roland et al., 2005b:70018**
Magnani, Gianantonio *see* **Ferretti, Gianni et al., 2005g:70028**
Mingari Scarpello, Giovanni (*with* Ritelli, Daniele) Circular motion of a particle under friction and hydraulic dissipation. (English summary) **2005i:70028**
Nasser, G. *see* **Glowinski, Roland et al., 2005b:70018**
Ritelli, Daniele *see* **Mingari Scarpello, Giovanni, 2005i:70028**
Rizos, Demosthenis D. (*with* Fassois, Spilios D.) Presliding friction identification based upon the Maxwell slip model structure. (English summary) **2005a:70018**
Rocco, Paolo *see* **Ferretti, Gianni et al., 2005g:70028**
Shiau, LieJune *see* **Glowinski, Roland et al., 2005b:70018**
Studer, Christian *see* **Glocker, Christoph, 2005m:70067**

Items with secondary classifications in 70F40

Agulló i Batlle, Joaquim Rough collisions in multibody systems. Restitution rules and energetical consistency. (English summary) **2005c:70007**
Anitescu, Mihai (*with* Hart, Gary D.) A constraint-stabilized time-stepping approach for rigid multibody dynamics with joints, contact and friction. (English summary) **2005e:70007**
— (*with* Hart, Gary D.) A fixed-point iteration approach for multibody dynamics with contact and small friction. (English summary) **2005e:70008**
Avramov, K. V. Bifurcations of almost periodically excited frictional oscillations. (Russian. English summary) **2005m:70076**
Awrejcewicz, Jan (*with* Sendkowski, D.) How to predict stick-slip chaos in $\mathbf{R}^4$. (English summary)
Bernardin, Frédéric (*with* Schatzman, Michelle; Lamarque, Claude-Henri) A Stochastic differential equation from friction mechanics. (English and French summaries) **2005j:60123**
— (*with* Schatzman, Michelle; Lamarque, Claude-Henri) Second-order multivalued stochastic differential equations on Riemannian manifolds. (English summary) **2005g:58063**
Fortin, Jérôme (*with* Millet, O.; de Saxcé, Géry) Numerical simulation of granular materials by an improved discrete element method. (English summary) **2005i:76113**
Hart, Gary D. *see* **Anitescu, Mihai, 2005e:70007** *and* **2005e:70008**
Hedrih, Katica The dissipation function of a nonconservative system of mass particles. (English summary) **2005b:70013**
Kim, Jae-Jun (*with* Singh, Tarunraj) Desensitized control of vibratory systems with friction: linear programming approach. (English summary)
Kumar, Vijay[5] *see* **Song, Peng et al., 2005b:74094**
Lamarque, Claude-Henri *see* **Bernardin, Frédéric et al., 2005g:58063** *and* **2005j:60123**
Martins, Rogério The effect of inversely unstable solutions on the attractor of the forced pendulum equation with friction. (English summary) **2005m:34090**
Millet, O. *see* **Fortin, Jérôme et al., 2005i:76113**
Pang, Jong-Shi *see* **Song, Peng et al., 2005b:74094**
Pfeiffer, Friedrich G. Unilateral problems of dynamics. (English summary) **2005b:70015**
de Saxcé, Géry *see* **Fortin, Jérôme et al., 2005i:76113**
Schatzman, Michelle *see* **Bernardin, Frédéric et al., 2005g:58063** *and* **2005j:60123**
Sendkowski, D. *see* **Awrejcewicz, Jan**
Singh, Tarunraj *see* **Kim, Jae-Jun**
Song, Peng (*with* Pang, Jong-Shi; Kumar, Vijay[5]) A semi-implicit time-stepping model for frictional compliant contact problems. (English summary) **2005b:74094**

70F45 Infinite particle systems

Mendès France, Michel (*with* Sebbar, Ahmed) Infinite chains of springs and masses. **2005g:70029**
Sebbar, Ahmed *see* **Mendès France, Michel, 2005g:70029**

Items with secondary classifications in 70F45

Chernov, Nikolai I. On a slow drift of a massive piston in an ideal gas that remains at mechanical equilibrium. (English summary) **2005k:80002**
Heggie, Douglas (*with* Hut, Piet) ★ The gravitational million-body problem. **2005j:85003**
Hut, Piet *see* **Heggie, Douglas, 2005j:85003**

70F99 None of the above, but in this section

Angel, Leonard Evens and odds in Newtonian collision mechanics. (English summary) **2005j:70033**
De Martino, Salvatore (*with* De Siena, Silvio; Fedele, Renato; Tzenov, Stephan I.) Mesoscopic description of dynamical systems: hierarchy of recursive equations for the moments of the density distribution with an application to charged particle beam dynamics. (English summary) **2005f:70022**
De Siena, Silvio *see* **De Martino, Salvatore et al., 2005f:70022**
Fang, Jian Hui (*with* Liao, Yong Pan; Zhang, Jun) Non-Noether conserved quantity in a general form for mechanical systems with variable mass. (Chinese. English and Chinese summaries)
Fedele, Renato *see* **De Martino, Salvatore et al., 2005f:70022**
Garel, T. A Newtonian pre-introduction to gravitational lenses. (English summary)
Liao, Yong Pan *see* **Fang, Jian Hui et al.**
Mei, Feng Xiang *see* **Xu, Xue Jun et al.**
Morgan, J. A. Spin and statistics in classical mechanics. (English summary) **2005g:70030**
Mukharlyamov, R. G. On the construction of systems of differential equations of motion of constrained mechanical systems. (Russian. Russian summary) **2005m:70068**
Packel, Edward W. (*with* Yuen, David S.) Projectile motion with resistance and the Lambert W function. **2005f:70023**
Qin, Mao Chang *see* **Xu, Xue Jun et al.**
Smol'yakov, È. R. Nonlinear laws of motion and a justification of the motion of inertioids. (Russian)
Stein, Sherman Remarks on the gravity equation. **2005j:70034**
Tzenov, Stephan I. *see* **De Martino, Salvatore et al., 2005f:70022**
Xu, Xue Jun (*with* Mei, Feng Xiang; Qin, Mao Chang) A non-Noether conserved quantity constructed using form invariance for the Nielsen equation of a non-conservative mechanical system. (Chinese. English and Chinese summaries)
Yuen, David S. *see* **Packel, Edward W., 2005f:70023**
Zhang, Jun *see* **Fang, Jian Hui et al.**

Items with secondary classifications in 70F99

Atilgan, Erdinç *see* **Main, Jörg et al., 2005e:81065**
Bain, Jonathan Theories of Newtonian gravity and empirical indistinguishability (English summary) **2005i:83001**
Burov, A. A. On necessary conditions for the stability of steady motions of systems with constraints realized by large potential forces. (Russian. Russian summary) **2005i:70055**
Casey, James Pseudo-rigid continua: basic theory and a geometrical derivation of Lagrange's equations. (English summary) **2005b:74012**
Duindam, Vincent *see* **Stramigioli, Stefano, 2005k:70005**
Flåm, Sjur Didrik (*with* Morgan, Jacqueline) Newtonian mechanics and Nash play (English summary) **2005k:91015**
Jung, Christof (*with* Seligman, Thomas H.; Torres, J. M.) Canonically transformed detectors applied to the classical inverse scattering problem. (English summary) **2005i:70035**
Kozlov, Valeriĭ V. Rationality conditions for the ratio of elliptic integrals and the great Poncelet theorem. (Russian. Russian summary) **2005d:33030**
Main, Jörg (*with* Atilgan, Erdinç; Taylor, Howard S.; Wunner, Günter) Classical, semiclassical, and quantum investigations of the four-sphere scattering system. (English summary) **2005e:81065**
Mingari Scarpello, Giovanni (*with* Ritelli, Daniele) Circular motion of a particle under friction and hydraulic dissipation. (English summary) **2005i:70028**
Morgan, Jacqueline *see* **Flåm, Sjur Didrik, 2005k:91015**
Ornsteĭn, D. Kolmogorov, random processes, and Newtonian dynamics. (Russian. Russian summary) **2005m:37002**
Pustyl'nikov, L. D. A generalized Newtonian periodic billiard in a ball. (Russian)
Raju, C. K. The electrodynamic 2-body problem and the origin of quantum mechanics. (English summary) **2005e:78003**
Ritelli, Daniele *see* **Mingari Scarpello, Giovanni, 2005i:70028**
Seligman, Thomas H. *see* **Jung, Christof et al., 2005i:70035**
Stramigioli, Stefano (*with* Duindam, Vincent) Port based modeling of spatial visco-elastic contacts. (English summary) **2005k:70005**
Tarasov, V. E. Phase-space metric for non-Hamiltonian systems. (English summary) **2005m:70072**
Taylor, Howard S. *see* **Main, Jörg et al., 2005e:81065**
Torres, J. M. *see* **Jung, Christof et al., 2005i:70035**
Wunner, Günter *see* **Main, Jörg et al., 2005e:81065**

70Gxx General models, approaches, and methods [see also 37–XX]

70G40 Topological and differential-topological methods

Szenkovits, Ferenc ★ Metode topologice în mecanica cereasc㠔. (Romanian) [Topological methods in celestial mechanics] **2005i:70029**

Items with secondary classifications in 70G40

Deryabin, Mikhail V. On asymptotic Hopf invariant for Hamiltonian systems. (English summary) **2005m:70070**

Falconi, Manuel (*with* Lacomba, Ernesto A.; Vidal, Claudio) The flow of classical mechanical cubic potential systems. (English summary) **2005i:70034**

Fomenko, Anatoliĭ T. (*with* Morozov, P. V.) Some new results in topological classification of integrable systems in rigid body dynamics. (English summary) **2005c:37103**

Gashenenko, Igor N. (*with* Kucher, E. Yu.) Analysis of isoenergy surfaces for exact solutions of the problem of the motion of a rigid body. (Russian. Russian summary) **2005m:70032**

— Enveloping surfaces in the problem of the motion of a heavy gyrostat. (Russian. Russian summary) **2005k:70011**

— Integral manifolds in the problem of the motion of a heavy rigid body. (Russian. Russian summary) **2005k:70020**

— (*with* Richter, Peter H.) Enveloping surfaces and admissible velocities of heavy rigid bodies. (English summary) **2005j:70009**

Goujvina, Galina The classification of the bifurcations emerging in the case of an integrable Hamiltonian system with two degrees of freedom when an isoenergetic surface is non-compact. (English summary) **2005i:37066**

Haghighatdoust, Gh. Some methods for topological description of common level surfaces of first integrals of a Hamiltonian system with two degrees of freedom. (*see* **2005f:00012**)

Kharlamov, M. P. (*with* Savushkin, A. Yu.; Shvedov, E. G.) The bifurcation set in a problem of the motion of a generalized Kovalevskaya top. (Russian. Russian summary) **2005m:70035**

— (*with* Zot′ev, D. B.) Non-degenerate energy surfaces of rigid body in two constant fields. (English summary) **2005k:70015**

(Kotschick, D.) *see* **Oshemkov, A. A., 2005d:37121**

Kucher, E. Yu. *see* **Gashenenko, Igor N., 2005m:70032**

Lacomba, Ernesto A. *see* **Falconi, Manuel et al., 2005i:70034**

McCord, Christopher Syzygies and the integral manifolds of the spatial N-body problem. (English summary) **2005c:70012**

Morozov, P. V. Topology of Liouville foliations of cases of Steklov and Sokolov integrability of the Kirchhoff equations. (Russian. Russian summary) **2005j:37097**

— *see also* **Fomenko, Anatoliĭ T., 2005c:37103**

Nguyen Tien Zung Symplectic topology of integrable Hamiltonian systems. II. Topological classification. (English summary) **2005f:53158**

Oshemkov, A. A. On the topological structure of the set of singularities of integrable Hamiltonian systems. **2005d:37121**

— The topology of the set of singular points for integrable Hamiltonian systems with two degrees of freedom. **2005g:37110**

— Singularities of integrable Hamiltonian systems. **2005f:37125**

Richter, Peter H. *see* **Gashenenko, Igor N., 2005j:70009**

Savushkin, A. Yu. *see* **Kharlamov, M. P. et al., 2005m:70035**

Shvedov, E. G. *see* **Kharlamov, M. P. et al., 2005m:70035**

Szenkovits, Ferenc Two-body type problems—a topological view. (English summary) **2005i:70010**

(Terzić, Svjetlana) *see* **Oshemkov, A. A., 2005d:37121**

Vidal, Claudio *see* **Falconi, Manuel et al., 2005i:70034**

Vozmishcheva, T. G. Topological analysis of integrable problems of celestial mechanics on a sphere and pseudosphere. **2005h:70014**

Zot′ev, D. B. *see* **Kharlamov, M. P., 2005k:70015**

70G45 Differential-geometric methods (tensors, connections, symplectic, Poisson, contact, Riemannian, nonholonomic, etc.) [see also 53Cxx, 53Dxx, 58Axx]

Ciobanu, Monica Lagrange functions associated to some dynamical systems. (English summary) **2005b:70019**

Gaeta, Giuseppe (*with* Morando, Paola) Variational principles for involutive systems of vector fields. (English summary) **2005g:70031**

Morando, Paola *see* **Gaeta, Giuseppe, 2005g:70031**

Pasquero, Stefano New geometrical frameworks for classical impulsive mechanics. (English summary) **2005c:70019**

Items with secondary classifications in 70G45

Alonso, Ricardo J. (*with* Vinogradov, A. M.) Green formula and Legendre transformation. (English summary) **2005c:58033**

Amisheva, N. V. On invariant directions and their properties on an isoenergy surface of nonintegrable Kirchhoff differential equations. (Russian. English and Russian summaries)

Baleanu, Dumitru Angular momentum and Killing-Yano tensors. (English summary)

Ballesteros, Angel *see* **Herranz, Francisco J. et al., 2005h:37124**

Barone, Fiorella (*with* Grassini, Renato) Geometry of implicit differential equations on smooth manifolds. (English summary) **2005k:34008**

Bartocci, Claudio (*with* Falqui, Gregorio; Pedroni, Marco) A geometric approach to the separability of the Neumann-Rosochatius system. (English summary) **2005f:37120**

— (*with* Mencattini, Igor) Hyper-symplectic structures on integrable systems. (English summary) **2005g:53081**

Błaszak, Maciej Systematic construction of separable systems with quadratic in momenta first integrals. (English summary) **2005b:37120**

— (*with* Sergeyev, Arthur) Maximal superintegrability of Benenti systems. (English summary) **2005j:37091**

— Separable systems with quadratic in momenta first integrals. (English summary) **2005j:37092**

Bojowald, Martin (*with* Strobl, Thomas) Poisson geometry in constrained systems. (English summary) **2005b:53129**

Bolsinov, A. V. (*with* Matveev, Vladimir S.) Geometrical interpretation of Benenti systems. (English summary) **2005d:37117**

Borisov, Alekseĭ Vladimirovich (*with* Mamaev, I. S.; Kilin, A. A.) Dynamics of rolling disk. (English summary) **2005e:37139**

Borowiec, Andrzej (*with* Ferraris, Marco; Francaviglia, Mauro; Palese, M.) Conservation laws for non-global Lagrangians. (English summary) **2005g:58031**

Bullo, Francesco Trajectory design for mechanical control systems: from geometry to algorithms. (English summary) **2005c:70033**

— (*with* Lewis, Andrew D.) ★ Geometric control of mechanical systems. **2005h:70030**

Calin, Ovidiu L. (*with* Chang, Der-Chen) ★ Geometric mechanics on Riemannian manifolds. **2005h:58031**

Cannas da Silva, Ana ★ Introduction to symplectic and Hamiltonian geometry. **2005k:53141**

Cariñena, José F. (*with* Rañada, Manuel F.; Santander, Mariano; Senthilvelan, Murugaian) A non-linear oscillator with quasi-harmonic behaviour: two- and n-dimensional oscillators. (English summary) **2005c:70021**

Castrillón López, Marco (*with* Marsden, Jerrold E.) Some remarks on Lagrangian and Poisson reduction for field theories. (English summary) **2005e:70040**

— (*with* Muñoz Masqué, J.) Current forms and gauge invariance. (English summary) **2005c:70037**

Cendra, Hernán (*with* Marsden, Jerrold E.; Pekarsky, Sergey; Ratiu, Tudor S.) Variational principles for Lie-Poisson and Hamilton-Poincaré equations. (English and Russian summaries) **2005m:37123**

— (*with* Marsden, Jerrold E.) Geometric mechanics and the dynamics of asteroid pairs. (English summary) **2005j:70023**

Chang, Der-Chen *see* **Calin, Ovidiu L., 2005h:58031**

Chanu, Claudia Separation of variables in the null Hamilton-Jacobi equation. (English summary)

Chevallier, Dominique On the foundations of ordinary and generalized rigid body dynamics and the principle of objectivity. (English summary) **2005e:70004**

Chruściński, Dariusz (*with* Jamiołkowski, Andrzej) ★ Geometric phases in classical and quantum mechanics. **2005g:81125**

Cortés, Jorge (*with* Martínez, Eduardo) Mechanical control systems on Lie algebroids. (English summary) **2005h:93038**

Crăciun, Dana (*with* Opriş, Dumitru) Discrete-continuous mechanical systems with nonholonomic constraints. (English summary) **2005g:70027**

Druzhinina, O. V. On the Lyapunov stability and Zhukovskiĭ stability of trajectories of conservative mechanical systems. (Russian) **2005k:34191**

Echeverría-Enríquez, A. (*with* López-Lacasta, Carlos; Marín-Solano, J.; Muñoz-Lecanda, Miguel C.; Román-Roy, Narciso) Skinner-Rusk formulation in classical field theory. (English summary) **2005j:70058**

Ehlers, Kurt (*with* Koiller, Jair; Montgomery, Richard; de M. Rios, Pedro) Nonholonomic systems via moving frames: Cartan equivalence and Chaplygin Hamiltonization. (English summary) **2005k:37138**

Ezra, Gregory S. Geometric approach to response theory in non-Hamiltonian systems. (English summary) **2005m:82084**

Falqui, Gregorio *see* **Bartocci, Claudio et al., 2005f:37120**

Fatibene, Lorenzo (*with* Francaviglia, Mauro) ★ Natural and gauge natural formalism for classical field theories. **2005f:58015**

Fedorov, Yu. N. (*with* Jovanović, Božidar Žarko) Nonholonomic LR systems as generalized Chaplygin systems with an invariant measure and flows on homogeneous spaces. (English summary) **2005d:37136**

Ferraris, Marco *see* **Borowiec, Andrzej et al., 2005g:58031**

Fiorani, Emanuele Completely and partially integrable Hamiltonian systems in the noncompact case. (English summary) **2005b:37123**

Forger, Michael (*with* Römer, Hartmann) Currents and the energy-momentum tensor in classical field theory: a fresh look at an old problem. (English summary) **2005c:70036**

Francaviglia, Mauro *see* **Fatibene, Lorenzo, 2005f:58015** *and* **Borowiec, Andrzej et al., 2005g:58031**

Frigioiu, Camelia (*with* Kirkovits, Magdalen Sz.) A new geometrization of time dependent Lagrangians. (English summary) **2005k:70041**

— Lagrangian geometrization in mechanics. (English summary) **2005i:70023**

García Pérez, Pedro Luis (*with* Rodrigo, C.) The momentum map in vakonomic mechanics. (English summary) **2005m:70065**

Ghanam, R. (*with* Thompson, Gerard; Miller, E. J.) Variationality of four-dimensional Lie group connections. (English summary) **2005i:70030**

Gołubowska, Barbara Infinitesimal affinely-rigid bodies in Riemann spaces. (English summary)

— Action-angle analysis of some geometric models of internal degrees of freedom. (English summary) **2005i:70050**

Grabowska, Katarzyna (*with* Grabowski, Janusz; Urbański, Paweł) AV-differential geometry: Poisson and Jacobi structures. (English summary) **2005h:53140**

Grabowski, Janusz *see* **Grabowska, Katarzyna et al., 2005h:53140**

Gràcia, Xavier (*with* Martín, Rubén) Time-dependent singular systems. (English summary) **2005j:70041**

— (*with* Muñoz-Lecanda, Miguel C.; Román-Roy, Narciso) On some aspects of the geometry of differential equations in physics. (English summary) **2005e:34002**

— (*with* Martín, Rubén) Regularity and symmetries of nonholonomic systems. (English summary) **2005m:70066**

Grassini, Renato *see* **Barone, Fiorella, 2005k:34008**

Güler, Yurdahan Geometrical interpretation of constrained systems. (English summary)

Guo, Han-Ying *see* **Zhou, Bin[4] et al., 2005d:37108**

Herranz, Francisco J. (*with* Ballesteros, Angel; Santander, Mariano; Sanz-Gil, Teresa) Maximally superintegrable Smorodinsky-Winternitz systems on the N-dimensional sphere and hyperbolic spaces. (English summary) **2005h:37124**

Jamiołkowski, Andrzej *see* **Chruściński, Dariusz, 2005g:81125**

Jay, Laurent O. Preserving Poisson structure and orthogonality in numerical integration of differential equations. (English summary) **2005f:37179**

Jovanović, Božidar Žarko *see* **Fedorov, Yu. N., 2005d:37136**
Kalnins, E. G. (*with* Kress, J. M.; Miller, Willard, Jr.; Winternitz, Pavel) Superintegrable systems in Darboux spaces. (English summary) **2005f:37124**
Kawabe, Tetsuji Indicator of chaos based on the Riemannian geometric approach. (English summary) **2005m:37120**
Kharlamov, M. P. A class of solutions with two invariant relations of the problem of the motion of the Kovalevskaya top in a double constant field. (Russian. Russian summary) **2005k:70014**
Kholshevnikov, Konstantin V. (*with* Vasil′ev, N. N.[1]) Natural metrics in the spaces of elliptic orbits. (English summary) **2005g:70025a**
— (*with* Vasil′ev, N. N.[1]) Errata: "Natural metrics in the spaces of elliptic orbits" [Celestial Mech. Dynam. Astronom. **89** (2004), no. 2, 119–125; MR2086185 (2005g:70025a)]. **2005g:70025b**
Khvedelidze, A. M. On the Hamiltonian formulation of gauge theories in terms of physical variables. (English summary) **2005h:81216**
Kilin, A. A. *see* **Borisov, Alekseĭ Vladimirovich et al., 2005e:37139**
Kirkovits, Magdalen Sz. *see* **Frigioiu, Camelia, 2005k:70041**
Kobayashi, Marcelo H. (*with* Oliva, Waldyr M.) On the Birkhoff approach to classical mechanics. (English summary) **2005e:70022**
— *see also* **Terra, Gláucio, 2005d:37138** *and* **2005e:70021**
Koiller, Jair *see* **de M. Rios, Pedro, 2005e:70019** *and* **Ehlers, Kurt et al., 2005k:37138**
Kovalchuk, Vasyl *see* **Sławianowski, Jan J.**
Kress, J. M. *see* **Kalnins, E. G. et al., 2005f:37124**
Krupková, Olga Non-variational Hamiltonian structures. (English summary) **2005c:37096**
de León, Manuel (*with* Martín de Diego, David; Santamaría-Merino, Aitor) Symmetries in classical field theory. (English summary) **2005j:70059**
Levi, Mark Lectures on geometrical methods in mechanics. **2005d:37175**
Lewis, Andrew D. *see* **Bullo, Francesco, 2005h:70030**
Li, Ze-Xiang *see* **Shen, Hui et al.**
Liu, Guan-Feng *see* **Shen, Hui et al.**
López-Lacasta, Carlos *see* **Echeverría-Enríquez, A. et al., 2005j:70058**
Mamaev, I. S. *see* **Borisov, Alekseĭ Vladimirovich et al., 2005e:37139**
Manoff, Sawa ★ Geometry and mechanics in different models of space-time: dynamics and applications. **2005k:58030**
Marín-Solano, J. *see* **Echeverría-Enríquez, A. et al., 2005j:70058**
Marle, Charles-Michel On mechanical systems with a Lie group as configuration space. **2005b:37116**
Marsden, Jerrold E. *see* **Castrillón López, Marco, 2005e:70040**; **Cendra, Hernán et al., 2005j:70023** *and* **2005m:37123**
Martín, Rubén *see* **Gràcia, Xavier, 2005j:70041** *and* **2005m:70066**
Martín de Diego, David *see* **de León, Manuel et al., 2005j:70059**
Martínez, Eduardo *see* **Cortés, Jorge, 2005h:93038**
Matsyuk, R. Ya. Differential geometric mechanisms in Ostrohradskyj relativistic spherical top dynamics. (English, Russian and Ukrainian summaries) **2005g:70035**
Matveev, Vladimir S. *see* **Bolsinov, A. V., 2005d:37117**
McLenaghan, Raymond G. (*with* Smirnov, Roman G.; The, Dennis) Towards a classification of cubic integrals of motion. (English summary) **2005i:70041**
Mencattini, Igor *see* **Bartocci, Claudio, 2005g:53081**
Miller, E. J. *see* **Ghanam, R. et al., 2005i:70030**
Miller, Willard, Jr. *see* **Kalnins, E. G. et al., 2005f:37124**
Moghadasi, S. Reza Rolling of a body on a plane or a sphere: a geometric point of view. (English summary) **2005f:93037**
Montgomery, Richard *see* **Ehlers, Kurt et al., 2005k:37138**
de M. Rios, Pedro (*with* Koiller, Jair) Non-holonomic systems with symmetry allowing a conformally symplectic reduction. (English summary) **2005e:70019**
— *see also* **Ehlers, Kurt et al., 2005k:37138**
Muñoz-Lecanda, Miguel C. (*with* Yániz-Fernández, F. Javier) A global study of the stability of nonholonomic dissipative systems. (English summary) **2005e:70020**
— *see also* **Gràcia, Xavier et al., 2005e:34002** *and* **Echeverría-Enríquez, A. et al., 2005j:70058**
Muñoz Masqué, J. *see* **Castrillón López, Marco, 2005c:70037**
Munteanu, Florian Dynamical systems on first and second order Hamilton spaces. (English summary) **2005a:37089**
— (*with* Rey, Angel M.; Salgado, Modesto) The Günther's formalism in classical field theory: momentum map and reduction. (English summary) **2005d:70014**
Neamţu, Mihaela The geometry of ordinary second order dynamical systems. (English summary) **2005h:70016**
— (*with* Obădeanu, Virgil) *n*-order dynamical systems and associated geometrical structures. (English summary) **2005b:53034**
Obădeanu, Virgil *see* **Neamţu, Mihaela, 2005b:53034**
Oliva, Waldyr M. *see* **Kobayashi, Marcelo H., 2005e:70022**
Ongay-Larios, Fausto (*with* Palacios, Celina) The Kepler problem and the Poincaré half-plane. (Spanish. Spanish summary) **2005b:70006**
Opriş, Dumitru *see* **Crăciun, Dana, 2005g:70027**
Ortega, Juan-Pablo (*with* Ratiu, Tudor S.) ★ Momentum maps and Hamiltonian reduction. **2005a:53144**
— (*with* Planas-Bielsa, Víctor) Dynamics on Leibniz manifolds. (English summary) **2005e:37140**
Pagani, Enrico A geometric approach to the Legendre transformation. (English summary) **2005i:70031**
Palacios, Celina *see* **Ongay-Larios, Fausto, 2005b:70006**
Palese, M. *see* **Borowiec, Andrzej et al., 2005g:58031**
Pedroni, Marco *see* **Bartocci, Claudio et al., 2005f:37120**
Pekarsky, Sergey *see* **Cendra, Hernán et al., 2005m:37123**
Pitanga, Paulo (*with* Rodrigues, Paulo R.) Projection methods for some constrained systems. (English summary) **2005a:37107**
Planas-Bielsa, Víctor *see* **Ortega, Juan-Pablo, 2005e:37140**
Puta, Mircea (*with* Voicu, Constantin) Some remarks on the twisted top. (English summary) **2005j:70013**
Ramos, Arturo Poisson structures for reduced non-holonomic systems. (English summary) **2005d:37137**
Rañada, Manuel F. (*with* Santander, Mariano) Higher-order superintegrability of a rational oscillator with inversely quadratic nonlinearities: Euclidean and non-Euclidean cases. (English summary) **2005h:37129**
— *see also* **Cariñena, José F. et al., 2005c:70021**
Ratiu, Tudor S. *see* **Ortega, Juan-Pablo, 2005a:53144** *and* **Cendra, Hernán et al., 2005m:37123**
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Rodrigues, Paulo R. *see* **Pitanga, Paulo, 2005a:37107**
Román-Roy, Narciso *see* **Gràcia, Xavier et al., 2005e:34002** *and* **Echeverría-Enríquez, A. et al., 2005j:70058**
Römer, Hartmann *see* **Forger, Michael, 2005c:70036**
Salgado, Modesto *see* **Munteanu, Florian et al., 2005d:70014**
Sandovici, Adrian A rheonomic gauge theory. (English summary) **2005j:70063**
Santamaría-Merino, Aitor *see* **de León, Manuel et al., 2005j:70059**
Santander, Mariano *see* **Cariñena, José F. et al., 2005c:70021**; **Herranz, Francisco J. et al., 2005h:37124** *and* **Rañada, Manuel F., 2005h:37129**
Sanz-Gil, Teresa *see* **Herranz, Francisco J. et al., 2005h:37124**
Sarlet, W. (*with* Vermeire, F.) A class of Poisson-Nijenhuis structures on a tangent bundle. (English summary) **2005k:53154**
Senthilvelan, Murugaian *see* **Cariñena, José F. et al., 2005c:70021**
Sergeyev, Arthur *see* **Błaszak, Maciej, 2005j:37091**
Shashikanth, B. N. Poisson brackets for the dynamically interacting system of a 2D rigid cylinder and N point vortices: the case of arbitrary smooth cylinder shapes. (English summary) **2005k:76022**
Shen, Hui (*with* Wu, Xu-Zhong; Liu, Guan-Feng; Li, Ze-Xiang) A geometric method of singularity analysis for parallel robots. (English and Chinese summaries)
Sławianowski, Jan J. Classical and quantum collective dynamics of deformable objects. Symmetry and integrability problems. (English summary) **2005e:70024**
— (*with* Kovalchuk, Vasyl) Invariant geodetic problems on the projective group $\mathrm{Pr}(n, \mathbb{R})$. (English summary)
— Geodetic systems on linear and affine groups. Classics and quantization. (English summary) **2005i:70051**
Smirnov, Roman G. *see* **McLenaghan, Raymond G. et al., 2005i:70041**
Śniatycki, Jędrzej Multisymplectic reduction for proper actions. (English summary) **2005b:70032**
Strobl, Thomas *see* **Bojowald, Martin, 2005b:53129**
Tarasov, V. E. Phase-space metric for non-Hamiltonian systems. (English summary) **2005m:70072**
Tekkoyun, Mehmet On para-Euler-Lagrange and para-Hamiltonian equations. (English summary) **2005m:37122**
Terra, Gláucio (*with* Kobayashi, Marcelo H.) On classical mechanical systems with non-linear constraints. (English summary) **2005e:70021**
— (*with* Kobayashi, Marcelo H.) On the variational mechanics with non-linear constraints. (English and French summaries) **2005d:37138**
The, Dennis *see* **McLenaghan, Raymond G. et al., 2005i:70041**
Thompson, Gerard *see* **Ghanam, R. et al., 2005i:70030**
Udrişte, Constantin Discrete geometric dynamics. (English summary) **2005d:70007**
Urbański, Paweł *see* **Grabowska, Katarzyna et al., 2005h:53140**
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Vorob′ev, Yu. M. On Poisson realizations of transitive Lie algebroids. (English summary) **2005i:53107**
Vozmishcheva, T. G. ★ Integrable problems of celestial mechanics in spaces of constant curvature. **2005a:37099**
Winternitz, Pavel *see* **Kalnins, E. G. et al., 2005f:37124**
Wu, Ke[1] *see* **Zhou, Bin[4] et al., 2005d:37108**
Wu, Xu-Zhong *see* **Shen, Hui et al.**
Yániz-Fernández, F. Javier *see* **Muñoz-Lecanda, Miguel C., 2005e:70020**
Zhang, Xin Hua[1] Geodesics, nonlinear normal modes of conservative vibratory systems and decomposition method. (English summary) **2005m:70080**
Zhou, Bin[4] (*with* Guo, Han-Ying; Wu, Ke[1]) On general volume-preserving mechanical systems via cohomology. (English summary) **2005d:37108**

Items listed otherwise than by author

Progress in Mathematics *see* **Ortega, Juan-Pablo, 2005a:53144**

70G55 Algebraic geometry methods

Items with secondary classifications in 70G55

Christov, Ognyan *see* **Zhivkov, Angel, 2005g:37112**
Dragović, Vladimir (*with* Radnović, Milena) Cayley-type conditions for billiards within k quadrics in $\mathbb{R}^d$. (English summary) **2005f:37123**
Elachab, A. *see* **Lesfari, A., 2005i:37067**
Komarov, I. V. (*with* Tsyganov, Andreĭ Vladimirovich[1]) On integration of the Kowalevski gyrostat and the Clebsch problems. (English summary) **2005g:70006**
Lesfari, A. (*with* Elachab, A.) Étude géométrique d'une famille de systèmes intégrables (English summary) [Geometric study of a family of integrable systems] **2005i:37067**
Radnović, Milena *see* **Dragović, Vladimir, 2005f:37123**
Tsyganov, Andreĭ Vladimirovich[1] *see* **Komarov, I. V., 2005g:70006**
Zhivkov, Angel (*with* Christov, Ognyan) Effective solutions of the Clebsch and C. Neumann systems. (English summary) **2005g:37112**

70G60 Dynamical systems methods

Items with secondary classifications in 70G60

Diacu, Florin (*with* Santoprete, Manuele) On the global dynamics of the anisotropic Manev problem. (English summary) **2005c:70008**
Gashenenko, Igor N. (*with* Richter, Peter H.) Enveloping surfaces and admissible velocities of heavy rigid bodies. (English summary) **2005j:70009**
Gómez, Gerard (*with* Marcote, M.; Mondelo, J. M.) The invariant manifold structure of the spatial Hill's problem. (English summary) **2005k:70035**
Marcote, M. *see* **Gómez, Gerard et al., 2005k:70035**
Mondelo, J. M. *see* **Gómez, Gerard et al., 2005k:70035**
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70G65 Symmetries, Lie-group and Lie-algebra methods

Klimov, D. M. (*with* Zhuravlëv, V. F.) ★ Group-theoretic methods in mechanics and applied mathematics. **2005c:70020**
Kolev, Boris Lie groups and mechanics: an introduction. (English summary) **2005f:70024**
Zhuravlëv, V. F. *see* **Klimov, D. M., 2005c:70020**

Items with secondary classifications in 70G65

Abrarov, D. L. On the mechanism of the integrability of the Euler-Poisson equations. (Russian. English and Russian summaries) **2005g:70005**
García Pérez, Pedro Luis (*with* Rodrigo, C.) The momentum map in vakonomic mechanics. (English summary) **2005m:70065**
Godlewski, Piotr Quantization of anisotropic rigid body. (English summary) **2005a:81108**
Kozlov, Valeriĭ V. Dynamics of variable systems, and Lie groups. (Russian. Russian summary) **2005j:70045**
Leach, P. G. L. (*with* Nucci, M. C.) Reduction of the classical MICZ-Kepler problem to a two-dimensional linear isotropic harmonic oscillator. (English summary) **2005f:70014**
— *see also* **Nucci, M. C., 2005g:70012**
Levi, Decio Lie symmetries for lattice equations. (English summary) **2005f:39054**
Maißer, Peter *see* **Müller, Andreas, 2005a:70005**
Morgan, J. A. Spin and statistics in classical mechanics. (English summary) **2005g:70030**
Müller, Andreas (*with* Maißer, Peter) A Lie-group formulation of kinematics and dynamics of constrained MBS and its application to analytical mechanics. (English summary) **2005a:70005**
Nucci, M. C. (*with* Leach, P. G. L.) Jacobi's last multiplier and symmetries for the Kepler problem plus a lineal story. (English summary) **2005g:70012**
— Calogero's 'goldfish' is indeed a school of free particles. (English summary) **2005g:70021**
— Jacobi's three-body system moves like a free particle. (English summary) **2005h:70009**
— *see also* **Leach, P. G. L., 2005f:70014**
Rodrigo, C. *see* **García Pérez, Pedro Luis, 2005m:70065**
Rodríguez, Miguel Angel[2] (*with* Winternitz, Pavel) Lie symmetries and exact solutions of first-order difference schemes. (English summary) **2005g:65103**
Shchepetilov, A. V. Two-body problem on two-point homogeneous spaces, invariant differential operators and the mass center concept. (English summary) **2005k:70025**
Winternitz, Pavel *see* **Rodríguez, Miguel Angel**[2]**, 2005g:65103**

70G70 Functional-analytic methods

Items with secondary classifications in 70G70

Beardmore, R. E. (*with* Peletier, Mark A.; Budd, Chris J.; Wadee, M. Ahmer) Bifurcations of periodic solutions satisfying the zero-Hamiltonian constraint in reversible differential equations. (English summary) **2005m:37111**
Budd, Chris J. *see* **Beardmore, R. E. et al., 2005m:37111**
Conte, Robert (*with* Musette, Micheline; Verhoeven, Caroline) Explicit integration of the Hénon-Heiles Hamiltonians. (English summary) **2005i:70033**
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Peletier, Mark A. *see* **Beardmore, R. E. et al., 2005m:37111**
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Wadee, M. Ahmer *see* **Beardmore, R. E. et al., 2005m:37111**

70G75 Variational methods

Items with secondary classifications in 70G75

Arizmendi, C. M. (*with* Delgado Fernández, Joaquín; Núñez-Yépez, H. N.; Salas-Brito, A. L.) Lagrangian description of the variational equations. (English summary) **2005a:70019**
Barutello, V. (*with* Terracini, Susanna) Action minimizing orbits in the n-body problem with simple choreography constraint. (English summary) **2005k:70029**
Delgado Fernández, Joaquín *see* **Arizmendi, C. M. et al., 2005a:70019**
Diacu, Florin (*with* Santoprete, Manuele) On the global dynamics of the anisotropic Manev problem. (English summary) **2005c:70008**
Fetecau, R. C. (*with* Marsden, Jerrold E.; Ortiz, Michael; West, Matthew) Nonsmooth Lagrangian mechanics and variational collision integrators. (English summary) **2005e:37197**
Levi, Mark Lectures on geometrical methods in mechanics. **2005d:37175**
Marsden, Jerrold E. *see* **Fetecau, R. C. et al., 2005e:37197**
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Salas-Brito, A. L. *see* **Arizmendi, C. M. et al., 2005a:70019**
Santoprete, Manuele *see* **Diacu, Florin, 2005c:70008**
Terracini, Susanna *see* **Barutello, V., 2005k:70029**
Timoumi, Mohsen Multiple closed trajectories of a relativistic particle. (English summary) **2005f:37133**
West, Matthew *see* **Fetecau, R. C. et al., 2005e:37197**

70G99 None of the above, but in this section

Items with secondary classifications in 70G99

Martens, Agnieszka Hamiltonian dynamics of planar affinely-rigid body. (English summary) **2005i:70036**

70Hxx Hamiltonian and Lagrangian mechanics [see also 37Jxx]

Items with secondary classifications in 70Hxx

Bálint, Attila *see* **Szenkovits, Ferenc et al., 2005h:70003**
Csillik, Iharka *see* **Szenkovits, Ferenc et al., 2005h:70003**
Delshams, Amadeu (*with* Giorgilli, Antonio) Hamiltonian systems and applications [Preface].
Esposito, Giampiero (*with* Marmo, Giuseppe; Sudarshan, E. C. George) ★ From classical to quantum mechanics. **2005d:81001**
Giorgilli, Antonio *see* **Delshams, Amadeu**
Makó, Zoltán *see* **Szenkovits, Ferenc et al., 2005h:70003**
Marmo, Giuseppe *see* **Esposito, Giampiero et al., 2005d:81001**
Sudarshan, E. C. George *see* **Esposito, Giampiero et al., 2005d:81001**
Szenkovits, Ferenc (*with* Makó, Zoltán; Csillik, Iharka; Bálint, Attila) ★ Mechanikai rendszerek számítógépes modellezése. (Hungarian. English and Hungarian summaries) [Computer modelling of mechanical systems] **2005h:70003**

70H03 Lagrange's equations

Arizmendi, C. M. (*with* Delgado Fernández, Joaquín; Núñez-Yépez, H. N.; Salas-Brito, A. L.) Lagrangian description of the variational equations. (English summary) **2005a:70019**
Bachmayer, Ralf *see* **Moreau, Luc**[2] **et al., (2005b:93007)**
Baleanu, Dumitru Angular momentum and Killing-Yano tensors. (English summary)
Chen, Hang-Hui (*with* Zheng, Han-Qing) Canonical formalism for Lagrangians of maximal nonlocality. (English summary) **2005j:70035**
Chen, Li Qun *see* **Fu, Jing-Li, 2005g:70032**
Delgado Fernández, Joaquín *see* **Arizmendi, C. M. et al., 2005a:70019**
Frigioiu, Camelia (*with* Kirkovits, Magdalen Sz.) A new geometrization of time dependent Lagrangians. (English summary) **2005k:70041**
Fu, Jing-Li (*with* Chen, Li Qun) On Noether symmetries and form invariance of mechanico-electrical systems. (English summary) **2005g:70032**
Ghanam, R. (*with* Thompson, Gerard; Miller, E. J.) Variationality of four-dimensional Lie group connections. (English summary) **2005i:70030**
González, Gabriel Lagrangians and Hamiltonians for one-dimensional autonomous systems. (English summary) **2005g:70033**
Kirkovits, Magdalen Sz. *see* **Frigioiu, Camelia, 2005k:70041**
Kobayashi, Marcelo H. (*with* Oliva, Waldyr M.) On the Birkhoff approach to classical mechanics. (English summary) **2005e:70022**
Leonard, Naomi Ehrich *see* **Moreau, Luc**[2] **et al., (2005b:93007)**
Mei, Feng Xiang (*with* Xu, Xue Jun; Zhang, Yongfa) A unified symmetry of Lagrangian systems. (English summary)
Miller, E. J. *see* **Ghanam, R. et al., 2005i:70030**
Moreau, Luc[2] (*with* Bachmayer, Ralf; Leonard, Naomi Ehrich) Coordinated gradient descent: a case study of Lagrangian dynamics with projected gradient information. (English summary) (*see* **2005b:93007**)
Neamţu, Mihaela The geometry of ordinary second order dynamical systems. (English summary) **2005h:70016**
— (*with* Obădeanu, Virgil) Degenerated Lagrangian systems. (English summary) **2005j:70036**
Núñez-Yépez, H. N. *see* **Arizmendi, C. M. et al., 2005a:70019**
Obădeanu, Virgil *see* **Neamţu, Mihaela, 2005j:70036**
Oliva, Waldyr M. *see* **Kobayashi, Marcelo H., 2005e:70022**
Pagani, Enrico A geometric approach to the Legendre transformation. (English summary) **2005i:70031**
Salas-Brito, A. L. *see* **Arizmendi, C. M. et al., 2005a:70019**
Thompson, Gerard *see* **Ghanam, R. et al., 2005i:70030**
Udrişte, Constantin Discrete geometric dynamics. (English summary) **2005d:70007**
Xu, Xue Jun *see* **Mei, Feng Xiang et al.**
Zhang, Yongfa *see* **Mei, Feng Xiang et al.**
Zheng, Han-Qing *see* **Chen, Hang-Hui, 2005j:70035**

Items with secondary classifications in 70H03

Arroyo, Josu (*with* Barros, Manuel; Garay, Oscar J.) Models of relativistic particle with curvature and torsion revisited. (English summary) **2005g:83004**
Barone, Fiorella (*with* Grassini, Renato) Geometry of implicit differential equations on smooth manifolds. (English summary) **2005k:34008**
Barros, Manuel *see* **Arroyo, Josu et al., 2005g:83004**
Blaom, Anthony D. Reconstruction phases for Hamiltonian systems on cotangent bundles. (English summary) **2005d:53135**
Bloch, Anthony M. *see* **Woolsey, C. A. et al., 2005m:70093**
Bui, Q. V. Modified Newmark family for non-linear dynamic analysis. (English summary) **2005f:70002**
Cariñena, José F. (*with* Rañada, Manuel F.; Santander, Mariano; Senthilvelan, Murugaian) A non-linear oscillator with quasi-harmonic behaviour: two- and n-dimensional oscillators. (English summary) **2005c:70021**
Casey, James Pseudo-rigid continua: basic theory and a geometrical derivation of Lagrange's equations. (English summary) **2005b:74012**
Cendra, Hernán (*with* Marsden, Jerrold E.) Geometric mechanics and the dynamics of asteroid pairs. (English summary) **2005j:70023**
Chang, Dong Eui *see* **Woolsey, C. A. et al., 2005m:70093**

Chen, Xiang Wei[1] (*with* Li, Yan-Min; Zhao, Yong-Hong) Lie symmetries, perturbation to symmetries and adiabatic invariants of Lagrange system. (English summary) **2005i:70046**

Chrastinová, Veronika Differential equations for variations. (English summary) (*see* **2005g:00019**)

Ciobanu, Monica Lagrange functions associated to some dynamical systems. (English summary) **2005b:70019**

Damianou, Pantelis A. (*with* Sophocleous, Christodoulos) Classification of Noether symmetries for Lagrangians with three degrees of freedom. (English summary) **2005e:70026**

Enge, Olaf (*with* Maißer, Peter) Modelling electromechanical systems with electrical switching components using the linear complementarity problem. (English summary) **2005m:70091**

Fang, Jian Hui (*with* Liao, Yong Pan; Zhang, Jun) Non-Noether conserved quantity in a general form for mechanical systems with variable mass. (Chinese. English and Chinese summaries)

— (*with* Zhang, Peng Yu) The conserved quantity of Hojman for mechanical systems with variable mass in phase space. (Chinese. English and Chinese summaries)

Frigioiu, Camelia Lagrangian geometrization in mechanics. (English summary) **2005i:70023**

Garay, Oscar J. *see* **Arroyo, Josu et al., 2005g:83004**

Grassini, Renato *see* **Barone, Fiorella, 2005k:34008**

Gu, Shu Long (*with* Zhang, Hong Bin[1]) Form invariance of mechanical systems with higher-order integrable differential constraints. (Chinese. English and Chinese summaries)

Hu, Li Yun *see* **Ma, Shan Jun et al.**

Huang, Pei Tian *see* **Ma, Shan Jun et al.**

Iwai, Toshihiro Stratified reduction of many-body dynamical systems. (English summary) **2005c:70011**

Kovačić, Ivana The generalized Lagrange's equations of the second kind and the field method for their integration. (English and Serbo-Croatian summaries) **2005d:70005**

Leach, P. G. L. *see* **Moyo, Sibusio, 2005k:34152**

Leonard, Naomi Ehrich *see* **Woolsey, C. A. et al., 2005m:70093**

Li, Yan-Min *see* **Chen, Xiang Wei**[1] **et al., 2005i:70046**

Liao, Yong Pan *see* **Fang, Jian Hui et al.**

Ma, Shan Jun (*with* Xu, Xue Xiang; Huang, Pei Tian; Hu, Li Yun) Discussion on a Lagrange equation containing third-order derivatives. (Chinese. English and Chinese summaries)

Maißer, Peter *see* **Enge, Olaf, 2005m:70091**

Manoff, Sawa ★ Geometry and mechanics in different models of space-time: dynamics and applications. **2005k:58030**

Marsden, Jerrold E. *see* **Cendra, Hernán, 2005j:70023** *and* **Woolsey, C. A. et al., 2005m:70093**

Mei, Feng Xiang *see* **Zhang, Yi**[7]**, 2005c:70018** *and* **Xu, Xue Jun et al.**

Moyo, Sibusio (*with* Leach, P. G. L.) Ordinary differential equations invariant under translation in the independent variable and rescaling: the Lagrangian formulation. (English summary) **2005k:34152**

Mukharlyamov, R. G. On the construction of systems of differential equations of motion of constrained mechanical systems. (Russian. Russian summary) **2005m:70068**

Munteanu, Florian *see* **Popescu, Liviu, 2005g:53134**

Mušicki, Djordje Relative motion of systems in a parametric formulation of mechanics. (English and Serbian summaries) **2005b:70014**

Muslih, Sami I. Hamilton-Jacobi quantization of constrained systems with second-order Lagrangians. (English summary) **2005c:81122**

Pasquero, Stefano New geometrical frameworks for classical impulsive mechanics. (English summary) **2005c:70019**

Penskoĭ, A. V. Symmetries and Lagrangian time-discretizations of Euler equations. (English summary) **2005h:37146**

Popescu, Liviu (*with* Munteanu, Florian) The variational problem in singular rheonomic Lagrange spaces. (English summary) **2005g:53134**

Postolache, Mihai *see* **Udrişte, Constantin, 2005b:37202**

Qin, Mao Chang *see* **Xu, Xue Jun et al.**

Rañada, Manuel F. *see* **Cariñena, José F. et al., 2005c:70021**

Reddy, Chevva Konda *see* **Woolsey, C. A. et al., 2005m:70093**

Santander, Mariano *see* **Cariñena, José F. et al., 2005c:70021**

Senthilvelan, Murugaian *see* **Cariñena, José F. et al., 2005c:70021**

Sophocleous, Christodoulos *see* **Damianou, Pantelis A., 2005e:70026**

Sosnits'kiĭ, S. P. On the stability of the equilibrium of gyroscopically coupled systems. (Ukrainian. English and Ukrainian summaries) **2005d:70010**

Udrişte, Constantin (*with* Postolache, Mihai) Least squares problem and geometric dynamics. (English summary) **2005b:37202**

Woolsey, C. A. (*with* Reddy, Chevva Konda; Bloch, Anthony M.; Chang, Dong Eui; Leonard, Naomi Ehrich; Marsden, Jerrold E.) Controlled Lagrangian systems with gyroscopic forcing and dissipation. (English summary) **2005m:70093**

Xu, Xue Jun (*with* Mei, Feng Xiang; Qin, Mao Chang) A non-Noether conserved quantity constructed using form invariance for the Nielsen equation of a non-conservative mechanical system. (Chinese. English and Chinese summaries)

Xu, Xue Xiang *see* **Ma, Shan Jun et al.**

Zhang, Hong Bin[1] *see* **Gu, Shu Long**

Zhang, Jun *see* **Fang, Jian Hui et al.**

Zhang, Peng Yu *see* **Fang, Jian Hui**

Zhang, Yi[7] (*with* Mei, Feng Xiang) Effects of non-conservative forces and nonholonomic constraints on Noether symmetries of a Lagrangian system. (Chinese. English and Chinese summaries) **2005c:70018**

Zhao, Yong-Hong *see* **Chen, Xiang Wei**[1] **et al., 2005i:70046**

70H05 Hamilton's equations

Ballesteros, Angel (*with* Ragnisco, Orlando) Classical dynamical systems from q-algebras: 'cluster' variables and explicit solutions. (English summary) **2005b:70020**

Barrera, L. A. *see* **López Laurrabaquio, G. et al., 2005h:70018**

Cano, B. (*with* Durán Martín, Angel) A technique to improve the error propagation when integrating relative equilibria. (English summary) **2005e:70023**

Chandre, C. *see* **Ciraolo, Guido et al., 2005i:70032**

Ciraolo, Guido (*with* Chandre, C.; Lima, Ricardo; Vittot, Michel; Pettini, Marco) Control of chaos in Hamiltonian systems. (English summary) **2005i:70032**

Conte, Robert (*with* Musette, Micheline; Verhoeven, Caroline) Explicit integration of the Hénon-Heiles Hamiltonians. (English summary) **2005i:70033**

Contopoulos, G. *see* **Efthymiopoulos, C. et al., 2005f:70025**

Deng, M. L. *see* **Zhu, W. Q., 2005e:70025**

Durán Martín, Angel *see* **Cano, B., 2005e:70023**

Efthymiopoulos, C. (*with* Giorgilli, Antonio; Contopoulos, G.) Nonconvergence of formal integrals. II. Improved estimates for the optimal order of truncation. (English summary) **2005f:70025**

Falconi, Manuel (*with* Lacomba, Ernesto A.; Vidal, Claudio) The flow of classical mechanical cubic potential systems. (English summary) **2005i:70034**

Garibo, Y. *see* **López Laurrabaquio, G. et al., 2005h:70018**

Giorgilli, Antonio *see* **Efthymiopoulos, C. et al., 2005f:70025**

de Gosson, Maurice A. On the notion of phase in mechanics. (English summary) **2005d:70008**

Grebogi, Celso *see* **Motter, Adilson E. et al., 2005k:70042**

Gutiérrez-Romero, S. (*with* Palacián, Jesús F.; Yanguas, Patricia) The invariant manifolds of a finite straight segment. (English summary) **2005h:70017**

Hernández, H. *see* **López Laurrabaquio, G. et al., 2005h:70018**

Jordan, Thomas F. Steppingstones in Hamiltonian dynamics. (English summary)

Jung, Christof (*with* Seligman, Thomas H.; Torres, J. M.) Canonically transformed detectors applied to the classical inverse scattering problem. (English summary) **2005i:70035**

Kantz, Holger *see* **Motter, Adilson E. et al., 2005k:70042**

Khalique, C. M. *see* **Ünal, Gazanfer, 2005g:70034**

Kochan, Denis Pseudodifferential forms and supermechanics. (English summary) **2005a:70020**

Lacomba, Ernesto A. *see* **Falconi, Manuel et al., 2005i:70034**

Lima, Ricardo *see* **Ciraolo, Guido et al., 2005i:70032**

López Laurrabaquio, G. (*with* Barrera, L. A.; Garibo, Y.; Hernández, H.; Salazar, J. C.; Vargas, C. A.) Constants of motion for several one-dimensional systems and problems associated with getting their Hamiltonians. (English summary) **2005h:70018**

Martens, Agnieszka Hamiltonian dynamics of planar affinely-rigid body. (English summary) **2005i:70036**

— Quantization of the planar affinely-rigid body. (English summary) **2005i:70037**

Motter, Adilson E. (*with* de Moura, Alessandro P. S.; Grebogi, Celso; Kantz, Holger) Effective dynamics in Hamiltonian systems with mixed phase space. (English summary) **2005k:70042**

de Moura, Alessandro P. S. *see* **Motter, Adilson E. et al., 2005k:70042**

Musette, Micheline *see* **Conte, Robert et al., 2005i:70033**

Nanayakkara, Asiri Classical trajectories of 1D complex non-Hermitian Hamiltonian systems. (English summary) **2005a:70021**

Palacián, Jesús F. *see* **Gutiérrez-Romero, S. et al., 2005h:70017**

Pettini, Marco *see* **Ciraolo, Guido et al., 2005i:70032**

Ragnisco, Orlando *see* **Ballesteros, Angel, 2005b:70020**

Salazar, J. C. *see* **López Laurrabaquio, G. et al., 2005h:70018**

Seligman, Thomas H. *see* **Jung, Christof et al., 2005i:70035**

Sławianowski, Jan J. Classical and quantum collective dynamics of deformable objects. Symmetry and integrability problems. (English summary) **2005e:70024**

Struckmeier, Jürgen Hamiltonian dynamics on the symplectic extended phase space for autonomous and non-autonomous systems. (English summary) **2005j:70037**

Torres, J. M. *see* **Jung, Christof et al., 2005i:70035**

Ünal, Gazanfer (*with* Khalique, C. M.) Approximate first integrals of the Hénon-Heiles system revisited. (English summary) **2005g:70034**

Vargas, C. A. *see* **López Laurrabaquio, G. et al., 2005h:70018**

Verhoeven, Caroline *see* **Conte, Robert et al., 2005i:70033**

Vernov, S. Yu. Construction of special solutions for nonintegrable dynamical systems with the help of the Painlevé analysis. (English summary) **2005b:70021**

Vidal, Claudio *see* **Falconi, Manuel et al., 2005i:70034**

Vittot, Michel *see* **Ciraolo, Guido et al., 2005i:70032**

Yanguas, Patricia *see* **Gutiérrez-Romero, S. et al., 2005h:70017**

Ying, Z. G. Generalized Hamiltonian norm, Lyapunov exponent and stochastic stability for quasi-Hamiltonian systems. (English summary) **2005i:70038**

Zhu, W. Q. (*with* Deng, M. L.) Optimal bounded control for minimizing the response of quasi-integrable Hamiltonian systems. (English summary) **2005e:70025**

Items with secondary classifications in 70H05

Abdullaev, S. S. Canonical maps near separatrix in Hamiltonian systems. (English summary) **2005m:37144**

Acatrinei, Ciprian Lagrangian versus quantization. (English summary) **2005a:81106**

Aleksandrov, A. Yu. (*with* Zhabko, A. P.) Preservation of asymptotic stability in the transition from differential equations to difference equations. (English summary) **2005g:37159**

Alonso, Ricardo J. (*with* Vinogradov, A. M.) Green formula and Legendre transformation. (English summary) **2005c:58033**

Amiran, Edoh Y. Fitting invariant curves on billiard tables and the Birkhoff-Herman theorem. (English summary) **2005k:37124**

Antohe, V. (*with* Gladwell, Ian) Performance of variable step size methods for solving model separable Hamiltonian systems. (English summary) **2005j:70002**

Arnold, Martin *see* **Pfeiffer, Andreas, 2005k:37190**

Arribas, M. (*with* Elipe Sánchez, Antonio C.; Saura, A.) Quadratic Hamiltonians on pinched spheres. (English summary) **2005i:37059**

Bardin, B. S. On orbital stability of planar motions of symmetric satellites in cases of first and second order resonances. (English summary) **2005g:70046**

Bashkirov, D. BV quantization of covariant (polysymplectic) Hamiltonian field theory. (English summary) **2005g:58030**
Bene, E. *see* **Vértesi, T., 2005h:81145**
Benet, L. (*with* Merlo, O.) Phase-space structure for narrow planetary rings. (English summary) **2005f:70019**
Berceanu, Ştefan (*with* Gheorghe, Cezar A.) Linear Hamiltonians on homogeneous Kähler manifolds of coherent states. (English summary) **2005d:81193**
Birtea, Petre (*with* Hogea, Cosmin; Puta, Mircea) Some remarks on the Clebsch's system. (English summary) **2005f:70004**
Bloch, Anthony M. *see* **Sanyal, Amit K. et al., 2005j:70012**
Brack, Matthias *see* **Pletyukhov, Mikhail, 2005h:81133**
Broer, Henk W. (*with* Hoveijn, Igor; Lunter, Gerton; Vegter, Gert) ★ Bifurcations in Hamiltonian systems. **2005d:37110**
Calin, Ovidiu L. (*with* Chang, Der-Chen; Greiner, Peter C.) Real and complex Hamiltonian mechanics on some subRiemannian manifolds. (English summary) **2005k:53033**
Cardin, Franco (*with* Favretti, Marco) On the Helmholtz-Boltzmann thermodynamics of mechanical systems. (English summary) **2005c:82052**
Cerruti-Sola, Monica *see* **Franzosi, Roberto et al., 2005k:37123**
Chandre, C. *see* **Vittot, Michel et al., 2005g:37121**
Chang, Der-Chen *see* **Calin, Ovidiu L. et al., 2005k:53033**
Chang, Dong Eui (*with* Marsden, Jerrold E.) Geometric derivation of the Delaunay variables and geometric phases. (English summary) **2005f:70013**
Chee, S. C. (*with* Maassen van den Brink, Alec; Young, Kenneth) Hamiltonian and linear-space structure for damped oscillators. I. General theory. (English summary) **2005f:70030**
— (*with* Maassen van den Brink, Alec; Young, Kenneth) Hamiltonian and linear-space structure for damped oscillators. II. Critical points. (English summary) **2005f:70031**
Chekanov, N. A. *see* **Ukolov, Yu. A. et al., 2005j:70001**
Chen, Hang-Hui (*with* Zheng, Han-Qing) Canonical formalism for Lagrangians of maximal nonlocality. (English summary) **2005j:70035**
Chen, Li Qun *see* **Fu, Jing-Li et al.**
Chin, Siu A. (*with* Scuro, Sante R.) Exact evolution of time-reversible symplectic integrators and their phase errors for the harmonic oscillator. (English summary) **2005m:37201**
Ciraolo, Guido *see* **Vittot, Michel et al., 2005g:37121**
Clemente-Gallardo, J. *see* **Talasila, V. et al., 2005k:70002**
Contopoulos, G. (*with* Efstathiou, K.) Escapes and recurrence in a simple Hamiltonian system. (English summary) **2005b:70011**
Corbera, Montserrat (*with* Llibre, Jaume; Pérez-Chavela, E.) Symmetric planar non-collinear relative equilibria for the Lennard-Jones potential 3-body problem with two equal masses. (English summary) **2005j:70016**
Cordani, Bruno Global study of the 2D secular 3-body problem. (English summary) **2005g:70013**
Cors, Josep Maria (*with* Llibre, Jaume) The global flow of the parabolic restricted three-body problem. (English summary) **2005j:70017**
Cushman, Richard *see* **Giacobbe, Andrea et al., 2005h:81111**
(Delgado Fernández, Joaquín) *see* **New advances in celestial mechanics and Hamiltonian systems, 2005b:70001**
Deng, Zi Chen *see* **Zhang, Su Ying, 2005a:70026**
D'Hoedt, Sandrine (*with* Lemaitre, Anne) The spin-orbit resonant rotation of Mercury: a two degree of freedom Hamiltonian model. (English summary) **2005g:70022**
Diminnie, David C. *see* **Haberman, Richard, 2005d:37112**
Dobrokhotov, S. Yu. (*with* Poteryakhin, M. A.) On normal forms in a neighborhood of two-dimensional resonance tori for a multidimensional anharmonic oscillator. (Russian. Russian summary) **2005m:34094**
Doedel, Eusebius *see* **Muñoz-Almaraz, F. J. et al., 2005a:37104**
Dragović, Vladimir (*with* Jovanović, Božidar Žarko; Radnović, Milena) On elliptic billiards in the Lobachevsky space and associated geodesic hierarchies. (English summary) **2005d:37109**
Dullin, Holger R. (*with* Fassò, Francesco) An algorithm for detecting directional quasi-convexity. (English summary) **2005h:37132**
Efstathiou, K. (*with* Sadovskiĭ, D. A.) Perturbations of the 1: 1: 1 resonance with tetrahedral symmetry: a three degree of freedom analogue of the two degree of freedom Hénon-Heiles Hamiltonian. (English summary) **2005b:37130**
— *see also* **Contopoulos, G., 2005b:70011**
Elipe Sánchez, Antonio C. Rotations of perturbed triaxial rigid bodies. (English summary) **2005k:70010**
— *see also* **Arribas, M. et al., 2005i:37059**
Elyutin, P. V. Gibbs attractor: a chaotic nearly Hamiltonian system, driven by external harmonic force. (English summary) **2005g:70043**
Elze, Hans-Thomas Quantum mechanics and discrete time from "timeless" classical dynamics. (English summary) (*see* **2005c:81005**)
Érdi, Bálint *see* **Sándor, Zsolt et al., 2005h:37079**
Ermolayeva, O. *see* **Loutsenko, Igor, 2005c:37128**
Fassò, Francesco *see* **Dullin, Holger R., 2005h:37132**
Favretti, Marco *see* **Cardin, Franco, 2005c:82052**
Franzosi, Roberto (*with* Poggi, Pietro; Cerruti-Sola, Monica) Lyapunov exponents from unstable periodic orbits. (English summary) **2005k:37123**
Freire Macías, Emilio *see* **Muñoz-Almaraz, F. J. et al., 2005a:37104**
Fu, Jing-Li (*with* Chen, Li Qun; Xie, Feng-ping) Form invariance, Noether and Lie symmetry of non-conservative Hamiltonian systems in phase space. (English summary)
Funk, Barbara *see* **Sándor, Zsolt et al., 2005h:37079**
Gabern, Frederic (*with* Jorba, Àngel; Locatelli, Ugo) On the construction of the Kolmogorov normal form for the Trojan asteroids. (English summary) **2005m:70057**
Gaeta, Giuseppe (*with* Morando, Paola) Variational principles for involutive systems of vector fields. (English summary) **2005g:70031**
Galán-Vioque, J. *see* **Muñoz-Almaraz, F. J. et al., 2005a:37104**
Gheorghe, Cezar A. *see* **Berceanu, Ştefan, 2005d:81193**
Giacobbe, Andrea (*with* Cushman, Richard; Sadovskiĭ, D. A.; Zhilinskiĭ, B. I.) Monodromy of the quantum 1 : 1 : 2 resonant swing spring. (English summary) **2005h:81111**
Giorgilli, Antonio Exponential stability of Hamiltonian systems. **2005c:37108**
Gladwell, Ian *see* **Antohe, V., 2005j:70002**
González, Gabriel Lagrangians and Hamiltonians for one-dimensional autonomous systems. (English summary) **2005g:70033**
Gràcia, Xavier (*with* Muñoz-Lecanda, Miguel C.; Román-Roy, Narciso) On some aspects of the geometry of differential equations in physics. (English summary) **2005e:34002**
Greiner, Peter C. *see* **Calin, Ovidiu L. et al., 2005k:53033**
Guo, Han-Ying *see* **Zhou, Bin[4] et al., 2005d:37108**
Gusev, Aleksandr A. *see* **Ukolov, Yu. A. et al., 2005j:70001**
Haberman, Richard (*with* Diminnie, David C.) On the dynamic unfolding of a saddle-center bifurcation and the change in the action. (English summary) **2005d:37112**
Hagiwara, Yohsuke Nambu-Jacobi structures and Jacobi algebroids. (English summary) **2005k:53152**
Hairer, Ernst Global modified Hamiltonian for constrained symplectic integrators. (English summary) **2005d:37169**
Hélein, Frédéric (*with* Kouneiher, Joseph) Covariant Hamiltonian formalism for the calculus of variations with several variables: Lepage-Dedecker versus De Donder-Weyl. (English summary) **2005k:58029**
Henrard, Jacques (*with* Schwanen, Gabriel) Rotation of synchronous satellites. (English summary) **2005m:70058**
Higueras Sanz, Immaculada (*with* Roldán, T.) Starting algorithms for partitioned Runge-Kutta methods: the pair Lobatto IIIA-IIIB. (English summary) **2005i:65097**
Hogea, Cosmin *see* **Birtea, Petre et al., 2005f:70004**
Hornos, José Eduardo M. *see* **Novaes, Marcel, 2005i:81047**
Hoveijn, Igor *see* **Broer, Henk W. et al., 2005d:37110**
Iñarrea, Manuel (*with* Lanchares, Víctor; Palacián, Jesús F.; Pascual, Ana I.; Salas, J. Pablo; Yanguas, Patricia) The Keplerian regime of charged particles in planetary magnetospheres. (English summary) **2005h:85002**
Itin, A. P. Passages through resonances in classical dynamics of a driven hydrogen atom. (English summary) **2005a:81269**
Ivancevic, V. Symplectic rotational geometry in human biomechanics. (English summary) **2005m:70015**
Jorba, Àngel *see* **Gabern, Frederic et al., 2005m:70057**
Jovanović, Božidar Žarko *see* **Dragović, Vladimir et al., 2005d:37109**
Jurdjevic, V. Hamiltonian point of view of non-Euclidean geometry and elliptic functions. (English summary) **2005c:53032**
Kawabe, Tetsuji Indicator of chaos based on the Riemannian geometric approach. (English summary) **2005m:37120**
Kharlamov, M. P. (*with* Savushkin, A. Yu.; Shvedov, E. G.) The bifurcation set in a problem of the motion of a generalized Kovalevskaya top. (Russian. Russian summary) **2005m:70035**
Kiehn, R. M. Entropy production and irreversible processes. (English summary) **2005f:80001**
Ko, Jan Ming *see* **Ying, Z. G. et al., 2005e:93171**
Kolev, Boris Lie groups and mechanics: an introduction. (English summary) **2005f:70024**
Kouneiher, Joseph *see* **Hélein, Frédéric, 2005k:58029**
Kozlov, Valeriĭ V. The spectrum of a Hamiltonian system and the symplectic geometry of the complex Artin space. (Russian) **2005e:70028**
— (*with* Treshchëv, Dmitriĭ V.) Evolution of measures in the phase space of nonlinear Hamiltonian systems. (Russian. Russian summary) **2005j:37084**
Krupková, Olga Non-variational Hamiltonian structures. (English summary) **2005c:37096**
(Lacomba, Ernesto A.) *see* **New advances in celestial mechanics and Hamiltonian systems, 2005b:70001**
Lanchares, Víctor *see* **Iñarrea, Manuel et al., 2005h:85002**
Lemaitre, Anne *see* **D'Hoedt, Sandrine, 2005g:70022**
Lima, Ricardo *see* **Vittot, Michel et al., 2005g:37121**
Llibre, Jaume (*with* Pérez-Chavela, E.) Transversal homoclinic orbits in the collinear restricted three-body problem. (English summary) **2005k:70027**
— *see also* **New advances in celestial mechanics and Hamiltonian systems, 2005b:70001**; **Corbera, Montserrat et al., 2005j:70016** *and* **Cors, Josep Maria, 2005j:70017**
Locatelli, Ugo *see* **Gabern, Frederic et al., 2005m:70057**
Loutsenko, Igor (*with* Ermolayeva, O.) Poisson structure of rational reductions of the 2D dToda hierarchy. (English summary) **2005c:37128**
Lunter, Gerton *see* **Broer, Henk W. et al., 2005d:37110**
Maassen van den Brink, Alec *see* **Chee, S. C. et al., 2005f:70030** *and* **2005f:70031**
Maciejewski, Andrzej J. *see* **Stevens, Bonnie A.**
Malecki, Justin John (*with* Mann, Robert B.) Three-body dynamics in a $(1+1)$-dimensional relativistic self-gravitating system. (English summary) **2005e:83067**
Mann, Robert B. *see* **Malecki, Justin John, 2005e:83067**
Marle, Charles-Michel On mechanical systems with a Lie group as configuration space. **2005b:37116**
Marsden, Jerrold E. *see* **Chang, Dong Eui, 2005f:70013**
McClamroch, N. Harris *see* **Sanyal, Amit K. et al., 2005j:70012**
McLachlan, Robert I. (*with* Perlmutter, Matthew) Energy drift in reversible time integration. (English summary) **2005j:37141**
Merlo, O. *see* **Benet, L., 2005f:70019**
Métris, Gilles *see* **Spallicci, Alessandro D. A. M. et al., 2005g:70019**
Minesaki, Yukitaka (*with* Nakamura, Yoshimasa) A conservative numerical integration algorithm for integrable Henon-Heiles system. (English summary)
— (*with* Nakamura, Yoshimasa) A new conservative numerical integration algorithm for the three-dimensional Kepler motion based on the Kustaanheimo-Stiefel regularization theory. (English summary) **2005a:70002**
Morando, Paola *see* **Gaeta, Giuseppe, 2005g:70031**
Morbidelli, Alessandro *see* **Spallicci, Alessandro D. A. M. et al., 2005g:70019**
de M. Rios, Pedro (*with* Ozorio de Almeida, A. M.) A variational principle for actions on symmetric symplectic spaces. (English summary) **2005m:53160**
Muñoz-Almaraz, F. J. (*with* Freire Macías, Emilio; Galán-Vioque, J.; Doedel, Eusebius; Vanderbauwhede, André) Continuation of periodic orbits in conservative and Hamiltonian systems. (English summary) **2005a:37104**
Muñoz-Lecanda, Miguel C. *see* **Gràcia, Xavier et al., 2005e:34002**

Munteanu, Florian Dynamical systems on first and second order Hamilton spaces. (English summary) **2005a:37089**
Mušicki, Djordje Relative motion of systems in a parametric formulation of mechanics. (English and Serbian summaries) **2005b:70014**
Muslih, Sami I. Integrability and action function in multi-Hamiltonian systems. (English summary) **2005c:70024**
Nadjafov, Tofik I. A problem on periodic trajectories of circular dynamic billiard and its applications. (English summary)
Nagler, Jan Crash test for the Copenhagen problem. (English summary) **2005e:70012**
Nakamura, Yoshimasa *see* **Minesaki, Yukitaka**, **2005a:70002**
Nanayakkara, Asiri Comparison of quantal and classical behavior of PT-symmetric systems at avoided crossings. (English summary) **2005j:81066**
Ni, Yi Qing *see* **Ying, Z. G. et al.**, **2005e:93171**
Novaes, Marcel (*with* Hornos, José Eduardo M.) Quantum nonintegrability and the classical limit for usp(4) systems. (English summary) **2005i:81047**
Ollé, Mercè (*with* Pacha, Juan R.; Villanueva, Jordi) Motion close to the Hopf bifurcation of the vertical family of periodic orbits of L_4. (English summary) **2005i:70012**
Ozorio de Almeida, A. M. *see* **de M. Rios, Pedro**, **2005m:53160**
Pacha, Juan R. *see* **Ollé, Mercè et al.**, **2005i:70012**
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Perlmutter, Matthew *see* **McLachlan, Robert I.**, **2005j:37141**
Petrov, A. G. On the invariant normalization of nonautonomous Hamiltonian systems. (Russian. Russian summary) **2005d:37107**
Pfeiffer, Andreas (*with* Arnold, Martin) Numerical analysis of structure preserving Nyström methods for Hamiltonian systems. (English summary) **2005k:37190**
Pletyukhov, Mikhail (*with* Brack, Matthias) On the canonically invariant calculation of Maslov indices. **2005h:81133**
Poggi, Pietro *see* **Franzosi, Roberto et al.**, **2005k:37123**
Poteryakhin, M. A. *see* **Dobrokhotov, S. Yu.**, **2005m:34094**
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Rostovtsev, V. A. *see* **Ukolov, Yu. A. et al.**, **2005j:70001**
Rovelli, Carlo Dynamics without time for quantum gravity: covariant Hamiltonian formalism and Hamilton-Jacobi equation on the space $\mathscr{G}$. (English summary) **2005d:83056**
Sadovskiĭ, D. A. *see* **Efstathiou, K.**, **2005b:37130** *and* **Giacobbe, Andrea et al.**, **2005h:81111**
Saito, Satoru (*with* Shudo, Akira; Yamamoto, Jun-ichi; Yoshida, Katsuhiko) Nambu-Hamiltonian flows associated with discrete maps. (English summary) **2005c:37097**
Sakakibara, Masato Super Nambu-Hamilton systems. **2005m:53158**
Salas, J. Pablo *see* **Iñarrea, Manuel et al.**, **2005h:85002**
Salomão, Pedro A. S. Convex energy levels of Hamiltonian systems. (English summary) **2005m:37121**
Sándor, Zsolt (*with* Érdi, Bálint; Széll, András; Funk, Barbara) The relative Lyapunov indicator: an efficient method of chaos detection. (English summary) **2005h:37079**
Sanyal, Amit K. (*with* Bloch, Anthony M.; McClamroch, N. Harris) Dynamics of multibody systems in planar motion in a central gravitational field. (English summary) **2005j:70012**
Saura, A. *see* **Arribas, M. et al.**, **2005i:37059**
Savushkin, A. Yu. *see* **Kharlamov, M. P. et al.**, **2005m:70035**
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Schwanen, Gabriel *see* **Henrard, Jacques**, **2005m:70058**
Scuro, Sante R. *see* **Chin, Siu A.**, **2005m:37201**
Shchepetilov, A. V. Two-body problem on two-point homogeneous spaces, invariant differential operators and the mass center concept. (English summary) **2005k:70025**
Shudo, Akira *see* **Saito, Satoru et al.**, **2005c:37097**
Shvedov, E. G. *see* **Kharlamov, M. P. et al.**, **2005m:70035**
Sokolov, V. V. On a class of quadratic Hamiltonians on so(4). (Russian) **2005e:37115**
Spallicci, Alessandro D. A. M. (*with* Morbidelli, Alessandro; Métris, Gilles) The three-body problem and the Hannay angle. (English summary) **2005g:70019**
Sri Namachchivaya, N. (*with* Ramakrishnan, Narayanan) Stochastic dynamics of parametrically excited two d.o.f. systems with symmetry. (English summary) **2005b:70029**
Stevens, Bonnie A. (*with* Maciejewski, Andrzej J.) Preface [From order to disorder in gravitational N-body dynamical systems].
Su, Hong-Ling (*with* Qin, Meng Zhao) Symplectic schemes for Birkhoffian system. (English summary) **2005f:37180**
Suris, Yu. B. Discrete Lagrangian models. (English summary) **2005e:37116**
Széll, András *see* **Sándor, Zsolt et al.**, **2005h:37079**
Szenkovits, Ferenc ★ Metode topologice în mecanica cereascâ. (Romanian) [Topological methods in celestial mechanics] **2005i:70029**
Talasila, V. (*with* Clemente-Gallardo, J.; van der Schaft, A. J.) Geometry and Hamiltonian mechanics on discrete spaces. (English summary) **2005k:70002**
Teğmen, Adnan Momentum map and action-angle variables for Nambu dynamics. (English summary) **2005b:70025**
Tekkoyun, Mehmet On para-Euler-Lagrange and para-Hamiltonian equations. (English summary) **2005m:37122**
Torres del Castillo, G. F. Gauge-invariant formulation of the electromagnetic interaction in Hamiltonian mechanics. (English and Spanish summaries) **2005a:78010**
Treshchëv, Dmitriĭ V. *see* **Kozlov, Valeriĭ V.**, **2005j:37084**
Tsyganov, Andreĭ Vladimirovich[1] On the Steklov-Lyapunov case of the rigid body motion. (English summary) **2005f:70010**
Tupper, P. F. A test problem for molecular dynamics integrators. (English summary) **2005m:82149**
Ukolov, Yu. A. (*with* Chekanov, N. A.; Gusev, Aleksandr A.; Rostovtsev, V. A.; Vinitskiĭ, S. I.; Uwano, Yoshio) A REDUCE program for the normalization of polynomial Hamiltonians. (English summary) **2005j:70001**
Uwano, Yoshio *see* **Ukolov, Yu. A. et al.**, **2005j:70001**
Vanderbauwhede, André *see* **Muñoz-Almaraz, F. J. et al.**, **2005a:37104**
Vegter, Gert *see* **Broer, Henk W. et al.**, **2005d:37110**
Vértesi, T. (*with* Bene, E.) On the detectability of threefold degeneracies of real Hamiltonians. (English summary) **2005h:81145**
Villanueva, Jordi *see* **Ollé, Mercè et al.**, **2005i:70012**
Vinitskiĭ, S. I. *see* **Ukolov, Yu. A. et al.**, **2005j:70001**
Vinogradov, A. M. *see* **Alonso, Ricardo J.**, **2005c:58033**
Vittot, Michel (*with* Chandre, C.; Ciraolo, Guido; Lima, Ricardo) Localized control for non-resonant Hamiltonian systems. (English summary) **2005g:37121**
Vozmishcheva, T. G. Topological analysis of integrable problems of celestial mechanics on a sphere and pseudosphere. **2005h:70014**
Waksjö, Claes (*with* Rauch-Wojciechowski, Stefan) How to find separation coordinates for the Hamilton-Jacobi equation: a criterion of separability for natural Hamiltonian systems. (English summary) **2005c:70022**
Wu, Ke[1] *see* **Zhou, Bin[4] et al.**, **2005d:37108**
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Yanguas, Patricia *see* **Iñarrea, Manuel et al.**, **2005h:85002**
Ying, Z. G. (*with* Ni, Yi Qing; Ko, Jan Ming) Non-linear stochastic optimal control for coupled-structures system of multi-degree-of-freedom. (English summary) **2005e:93171**
Yoshida, Katsuhiko *see* **Saito, Satoru et al.**, **2005c:37097**
Young, Kenneth *see* **Chee, S. C. et al.**, **2005f:70030** *and* **2005f:70031**
Zhabko, A. P. *see* **Aleksandrov, A. Yu.**, **2005g:37159**
Zhang, Jun *see* **Zhang, Li Hong**
Zhang, Li Hong (*with* Zhang, Jun) Mei symmetry and conserved quantity of relativistic Hamiltonian systems. (Chinese. English and Chinese summaries)
Zhang, Su Ying (*with* Deng, Zi Chen) Lie group integration for constrained generalized Hamiltonian system with dissipation by projection method. (Chinese. English and Chinese summaries) **2005a:70026**
Zheng, Han-Qing *see* **Chen, Hang-Hui**, **2005j:70035**
Zhilinskiĭ, B. I. *see* **Giacobbe, Andrea et al.**, **2005h:81111**
Zhou, Bin[4] (*with* Guo, Han-Ying; Wu, Ke[1]) On general volume-preserving mechanical systems via cohomology. (English summary) **2005d:37108**
Zhu, W. Q. Lyapunov exponent and stochastic stability of quasi-non-integrable Hamiltonian systems. (English summary) **2005a:70030**
— Feedback stabilization of quasi nonintegrable Hamiltonian systems by using Lyapunov exponent. (English summary) **2005f:93175**

Items listed otherwise than by author

Guanajuato ★ New advances in celestial mechanics and Hamiltonian systems. **2005b:70001**
Lecture Notes in Mathematics *see* **Broer, Henk W. et al.**, **2005d:37110**
New advances in celestial mechanics and Hamiltonian systems ★ New advances in celestial mechanics and Hamiltonian systems. **2005b:70001**

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Arnlind, Joakim (*with* Hoppe, Jens) Eigenvalue-dynamics off the Calogero-Moser system. (English summary) **2005i:70039**
Cariñena, José F. (*with* Rañada, Manuel F.; Santander, Mariano; Senthilvelan, Murugaian) A non-linear oscillator with quasi-harmonic behaviour: two- and n-dimensional oscillators. (English summary) **2005c:70021**
DeDeo, M. R. (*with* Velasquez, Elinor) An introduction to symplectic maps and generalizations of the Toda lattice. (English summary) **2005i:70040**
Hoppe, Jens *see* **Arnlind, Joakim**, **2005i:70039**
Knauf, Andreas (*with* Taimanov, Iskander A.) Integrability of the n-center problem at high energies. (Russian) **2005h:70019**
McLenaghan, Raymond G. (*with* Smirnov, Roman G.; The, Dennis) Towards a classification of cubic integrals of motion. (English summary) **2005i:70041**
Pucacco, Giuseppe On integrable Hamiltonians with velocity dependent potentials. (English summary) **2005j:70038**
Rañada, Manuel F. *see* **Cariñena, José F. et al.**, **2005c:70021**
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Smirnov, Roman G. *see* **McLenaghan, Raymond G. et al.**, **2005i:70041**
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The, Dennis *see* **McLenaghan, Raymond G. et al.**, **2005i:70041**
Varvoglis, H. (*with* Vozikis, Ch.; Wodnar, K.) The two fixed centers: an exceptional integrable system. (English summary) **2005f:70026**
Velasquez, Elinor *see* **DeDeo, M. R.**, **2005i:70040**
Vozikis, Ch. *see* **Varvoglis, H. et al.**, **2005f:70026**
Wodnar, K. *see* **Varvoglis, H. et al.**, **2005f:70026**

Items with secondary classifications in 70H06

Abrarov, D. L. On the mechanism of the integrability of the Euler-Poisson equations. (Russian. English and Russian summaries) **2005g:70005**
Alonso Izquierdo, A. (*with* González León, M. A.; Mateos Guilarte, J.; de la Torre Mayado, M.) Jacobi metric and Morse theory of dynamical systems. (English summary) **2005k:58022**
Ballesteros, Angel *see* **Herranz, Francisco J. et al.**, **2005h:37124**
Bartocci, Claudio (*with* Falqui, Gregorio; Pedroni, Marco) A geometric approach to the separability of the Neumann-Rosochatius system. (English summary) **2005f:37120**
— (*with* Mencattini, Igor) Hyper-symplectic structures on integrable systems. (English summary) **2005g:53081**
Bekov, A. A. An integrable case of the Hamilton-Jacobi equation for a class of dynamical systems. II. A generalization of the Darboux-Demin case. (Russian. English, Russian and Kazakh summaries) **2005i:70044**

Błaszak, Maciej Systematic construction of separable systems with quadratic in momenta first integrals. (English summary) **2005b:37120**
— Presymplectic representation of bi-Hamiltonian chains. (English summary) **2005k:37144**
— (*with* Sergeyev, Arthur) Maximal superintegrability of Benenti systems. (English summary) **2005j:37091**
— Separable systems with quadratic in momenta first integrals. (English summary) **2005j:37092**
Bolsinov, A. V. (*with* Jovanović, Božidar Žarko) Integrable geodesic flows on Riemannian manifolds: construction and obstructions. (English summary) **2005f:37121**
Borisov, Alekseĭ Vladimirovich (*with* Mamaev, I. S.) Necessary and sufficient conditions for the polynomial integrability of generalized Toda chains. (Russian) **2005i:37064**
— (*with* Mamaev, I. S.; Kilin, A. A.) Two-body problem on a sphere. Reduction, stochasticity, periodic orbits. (English summary) **2005k:37199**
Bruschi, Mario (*with* Calogero, Francesco) Integrable systems of quartic oscillators. II. (English summary) **2005d:37118**
Calogero, Francesco A technique to identify solvable dynamical systems, and another solvable extension of the goldfish many-body problem. (English summary) **2005k:70030**
— *see also* **Bruschi, Mario**, **2005d:37118**
Celletti, Alessandra (*with* Froeschlé, Claude; Lega, Elena) From regular to chaotic motions through the work of Kolmogorov. (English summary) **2005b:37129**
Chervov, A. V. *see* **Talalaev, D. V.**, **2005i:14042**
Conte, Robert (*with* Musette, Micheline; Verhoeven, Caroline) Explicit integration of the Hénon-Heiles Hamiltonians. (English summary) **2005i:70033**
Damianou, Pantelis A. Bi-Hamiltonian formulation of generalized Toda chains. (English summary) **2005b:37122**
— (*with* Kouzaris, Stelios P.) Bogoyavlensky-Volterra and Birkhoff integrable systems. (English summary) **2005f:37122**
— Multiple Hamiltonian structure of Bogoyavlensky-Toda lattices. (English summary) **2005a:37095**
— (*with* Sophocleous, Christodoulos) Noether and master symmetries for the Toda lattice. (English summary) **2005i:37065**
Dragović, Vladimir Separability in Hamilton-Jacobi sense in two degrees of freedom and the Appell hypergeometric functions. (English summary) **2005k:37127**
Dullin, Holger R. (*with* Matveev, Vladimir S.) A new integrable system on the sphere. (English summary) **2005j:37094**
Efimov, D. I. The magnetic geodesic flow in a homogeneous field on a complex projective space. (Russian. Russian summary) **2005d:37120**
— The magnetic geodesic flow on a homogeneous symplectic manifold. (Russian. Russian summary) **2005m:37131**
Elachab, A. *see* **Lesfari, A.**, **2005i:37067**
Ermolayeva, O. On a trigonometric analogue of Atiyah-Hitchin bracket. (English summary) **2005i:53103**
Falqui, Gregorio *see* **Bartocci, Claudio et al.**, **2005f:37120**
Fedorov, Yu. N. (*with* Jovanović, Božidar Žarko) Nonholonomic LR systems as generalized Chaplygin systems with an invariant measure and flows on homogeneous spaces. (English summary) **2005d:37136**
Féjoz, Jacques Démonstration du 'théorème d'Arnold' sur la stabilité du système planétaire (d'après Herman). (English and French summaries) [Proof of 'Arnol′d's theorem' on the stability of a planetary system (following Herman)] **2005i:37101**
Fiorani, Emanuele Completely and partially integrable Hamiltonian systems in the noncompact case. (English summary) **2005b:37123**
Fomenko, Anatoliĭ T. (*with* Morozov, P. V.) Some new results in topological classification of integrable systems in rigid body dynamics. (English summary) **2005c:37103**
Froeschlé, Claude *see* **Celletti, Alessandra et al.**, **2005b:37129**
Furta, Stanislav (*with* Zampieri, Gaetano) Cruising in a central force field. (English summary) **2005j:70029**
von Gehlen, G. (*with* Pakulyak, S. Z.; Sergeev, Sergei M.) Theta-function parametrization and fusion for 3D integrable Boltzmann weights. (English summary) **2005c:82025**
Giachetta, G. (*with* Mangiarotti, L.; Sardanashvili, G. A.) Nonadiabatic holonomy operators in classical and quantum completely integrable systems. (English summary) **2005b:81054**
Golubchik, I. Z. (*with* Sokolov, V. V.) Factorization of the loop algebra, and integrable top-like equations. (Russian. Russian summary)
Gonera, Cezary Maximally superintegrable systems of Winternitz type. (English summary) **2005h:37123**
González León, M. A. *see* **Alonso Izquierdo, A. et al.**, **2005k:58022**
Goujvina, Galina The classification of the bifurcations emerging in the case of an integrable Hamiltonian system with two degrees of freedom when an isoenergetic surface is non-compact. (English summary) **2005i:37066**
Gravel, Simon Cubic integrals of motion and quantum superintegrability. (English summary) **2005j:81075**
(Harnad, John) *see* **Superintegrability in classical and quantum systems**, **2005g:00018**
Herranz, Francisco J. (*with* Ballesteros, Angel; Santander, Mariano; Sanz-Gil, Teresa) Maximally superintegrable Smorodinsky-Winternitz systems on the N-dimensional sphere and hyperbolic spaces. (English summary) **2005h:37124**
Hiranwal, Roshan (*with* Mishra, S. C.; Mishra, Veena) Classical and quantum integrability for a class of potentials in two dimensions. (English summary) **2005c:81085**
Jovanović, Božidar Žarko *see* **Fedorov, Yu. N.**, **2005d:37136** *and* **Bolsinov, A. V.**, **2005f:37121**
Kalnins, E. G. (*with* Kress, J. M.; Miller, Willard, Jr.; Winternitz, Pavel) Superintegrable systems in Darboux spaces. (English summary) **2005f:37124**
Kilin, A. A. *see* **Borisov, Alekseĭ Vladimirovich et al.**, **2005k:37199**
Knauf, Andreas (*with* Taimanov, Iskander A.) On the integrability of the n-centre problem. (English summary) **2005k:37128**
(Kolmogorov, Andreĭ Nikolaevich) *see* **Celletti, Alessandra et al.**, **2005b:37129**
Komarov, I. V. (*with* Sokolov, V. V.; Tsyganov, Andreĭ Vladimirovich[1]) Poisson maps and integrable deformations of the Kowalevski top. (English summary) **2005a:70007**
— (*with* Tsyganov, Andreĭ Vladimirovich[1]) On integration of the Kowalevski gyrostat and the Clebsch problems. (English summary) **2005g:70006**
(Kotschick, D.) *see* **Oshemkov, A. A.**, **2005d:37121**
Kouzaris, Stelios P. *see* **Damianou, Pantelis A.**, **2005f:37122**
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Kress, J. M. *see* **Kalnins, E. G. et al.**, **2005f:37124**
Kulp, C. W. (*with* Tracy, Eugene R.) Control of integrable Hamiltonian systems and degenerate bifurcations. (English summary) **2005j:37109**
Leach, P. G. L. *see* **Nucci, M. C.**, **2005g:70012**
Lega, Elena *see* **Celletti, Alessandra et al.**, **2005b:37129**
Lesfari, A. (*with* Elachab, A.) Étude géométrique d'une famille de systèmes intégrables. (English summary) [Geometric study of a family of integrable systems] **2005i:37067**
Maciejewski, Andrzej J. (*with* Przybylska, Maria) All meromorphically integrable 2D Hamiltonian systems with homogeneous potential of degree 3. (English summary) **2005e:37124**
— *see also* **Nakagawa, Katsuya et al.**, **2005m:37133**
Magri, Franco Lenard chains for classical integrable systems. (Russian. Russian summary) **2005j:37096**
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Mangiarotti, L. *see* **Giachetta, G. et al.**, **2005b:81054**
Mateos Guilarte, J. *see* **Alonso Izquierdo, A. et al.**, **2005k:58022**
Matveev, Vladimir S. *see* **Dullin, Holger R.**, **2005j:37094**
Mencattini, Igor *see* **Bartocci, Claudio**, **2005g:53081**
Miller, Willard, Jr. Complete sets of invariants for classical systems. (English summary) **2005h:37126**
— *see also* **Kalnins, E. G. et al.**, **2005f:37124** *and* **Superintegrability in classical and quantum systems**, **2005g:00018**
Mishra, S. C. *see* **Hiranwal, Roshan et al.**, **2005c:81085**
Mishra, Veena *see* **Hiranwal, Roshan et al.**, **2005c:81085**
Morosi, Carlo (*with* Tondo, Giorgio) Separation of variables in multi-Hamiltonian systems. Application to the Lagrange top. (Russian. Russian summary) **2005b:37125**
Morozov, P. V. *see* **Fomenko, Anatoliĭ T.**, **2005c:37103**
Musette, Micheline *see* **Conte, Robert et al.**, **2005i:70033**
Nakagawa, Katsuya (*with* Maciejewski, Andrzej J.; Przybylska, Maria) New integrable Hamiltonian system with first integral quartic in momenta. (English summary) **2005m:37133**
Nguyen Tien Zung Symplectic topology of integrable Hamiltonian systems. II. Topological classification. (English summary) **2005f:53158**
Nucci, M. C. (*with* Leach, P. G. L.) Jacobi's last multiplier and symmetries for the Kepler problem plus a lineal story. (English summary) **2005g:70012**
Oshemkov, A. A. On the topological structure of the set of singularities of integrable Hamiltonian systems. **2005d:37121**
— The topology of the set of singular points for integrable Hamiltonian systems with two degrees of freedom. **2005g:37110**
— Singularities of integrable Hamiltonian systems. **2005f:37125**
Pakulyak, S. Z. *see* **von Gehlen, G. et al.**, **2005c:82025**
Panasyuk, A. V. Projections of Jordan bi-Poisson structures that are Kronecker, diagonal actions, and the classical Gaudin systems. (English summary) **2005m:37134a**
— Erratum to: "Projections of Jordan bi-Poisson structures that are Kronecker, diagonal actions, and the classical Gaudin systems" [J. Geom. Phys. **47** (2003), no. 4, 379–397; MR1996333 (2005m:37134a)]. **2005m:37134b**
Pedroni, Marco *see* **Bartocci, Claudio et al.**, **2005f:37120**
Persson, Fredrik (*with* Rauch-Wojciechowski, Stefan) Triangular Newton equations with maximal number of integrals of motion. (English summary) **2005k:37129**
Pidkuĭko, S. I. *see* **Vus, A. Ya.**, **2005b:37128**
(Pogosyan, George S.) *see* **Superintegrability in classical and quantum systems**, **2005g:00018**
Przybylska, Maria *see* **Maciejewski, Andrzej J.**, **2005e:37124** *and* **Nakagawa, Katsuya et al.**, **2005m:37133**
Rañada, Manuel F. (*with* Santander, Mariano) Higher-order superintegrability of a rational oscillator with inversely quadratic nonlinearities: Euclidean and non-Euclidean cases. (English summary) **2005h:37129**
Rauch-Wojciechowski, Stefan *see* **Waksjö, Claes**, **2005c:70022** *and* **Persson, Fredrik**, **2005k:37129**
(Rodríguez, Miguel Angel[2]) *see* **Superintegrability in classical and quantum systems**, **2005g:00018**
Sadètov, S. T. A proof of the Mishchenko-Fomenko conjecture (1981). (Russian) **2005j:37098**
Santander, Mariano *see* **Herranz, Francisco J. et al.**, **2005h:37124** *and* **Rañada, Manuel F.**, **2005h:37129**
Sanz-Gil, Teresa *see* **Herranz, Francisco J. et al.**, **2005h:37124**
Sardanashvili, G. A. *see* **Giachetta, G. et al.**, **2005b:81054**
Sergeev, Sergei M. *see* **von Gehlen, G. et al.**, **2005c:82025**
Sergeyev, Arthur *see* **Błaszak, Maciej**, **2005j:37091**
Skrypnyk, Taras V. Deformations of loop algebras and classical integrable systems: finite-dimensional Hamiltonian systems. (English summary) **2005g:37111**
Sokolov, V. V. *see* **Komarov, I. V. et al.**, **2005a:70007** *and* **Golubchik, I. Z.**
Sophocleous, Christodoulos *see* **Damianou, Pantelis A.**, **2005i:37065**
Taimanov, Iskander A. *see* **Knauf, Andreas**, **2005k:37128**
Talalaev, D. V. (*with* Chervov, A. V.) The Hitchin system on singular curves. (Russian. Russian summary) **2005i:14042**
Teğmen, Adnan (*with* Verçin, Abdullah) Superintegrable systems, multi-Hamiltonian structures and Nambu mechanics in an arbitrary dimension. (English summary) **2005a:37098**
(Tempesta, Piergiulio) *see* **Superintegrability in classical and quantum systems**, **2005g:00018**
(Terzić, Svjetlana) *see* **Oshemkov, A. A.**, **2005d:37121**
Tondo, Giorgio *see* **Morosi, Carlo**, **2005b:37125**
de la Torre Mayado, M. *see* **Alonso Izquierdo, A. et al.**, **2005k:58022**
Tracy, Eugene R. *see* **Kulp, C. W.**, **2005j:37109**
Tsyganov, Andreĭ Vladimirovich[1] On the Steklov-Lyapunov case of the rigid body motion. (English summary) **2005f:70010**
— Toda chains in the Jacobi method. (Russian. Russian summary) **2005e:37125**
— Integrable deformations of tops associated with the algebra so(p, q). (Russian. Russian summary) **2005m:37136**

— On an isomorphism of integrable cases of the Euler equations on the bi-Hamiltonian manifolds e(3) and so(4). (Russian. English and Russian summaries) **2005j:37100**
— On a family of integrable systems on S^2 with a cubic integral of motion. (English summary) **2005i:37069**
— A new integrable system on S^2 with the second integral quartic in the momenta. (English summary) **2005m:37137**
— *see also* **Komarov, I. V. et al., 2005a:70007** *and* **2005g:70006**
Valent, Galliano Integrability versus separability for the multi-centre metrics. (English summary) **2005d:53073**
Verçin, Abdullah *see* **Teğmen, Adnan, 2005a:37098**
Verhoeven, Caroline *see* **Conte, Robert et al., 2005i:70033**
Vozmishcheva, T. G. ★ Integrable problems of celestial mechanics in spaces of constant curvature. **2005a:37099**
Vus, A. Ya. (*with* Pidkuĭko, S. I.) Explicitly reducible integrable natural systems with the integral of full momentum. (English summary) **2005b:37128**
Waksjö, Claes (*with* Rauch-Wojciechowski, Stefan) How to find separation coordinates for the Hamilton-Jacobi equation: a criterion of separability for natural Hamiltonian systems. (English summary) **2005c:70022**
Winternitz, Pavel *see* **Kalnins, E. G. et al., 2005f:37124** *and* **Superintegrability in classical and quantum systems, 2005g:00018**
Zampieri, Gaetano *see* **Furta, Stanislav, 2005j:70029**
Zotov, A. V. Elliptic linear problem for the Calogero-Inozemtsev model and Painlevé VI equation. (English summary) **2005d:37125**

Items listed otherwise than by author

Montréal, QC ★ Superintegrability in classical and quantum systems. **2005g:00018**
Superintegrability in classical and quantum systems ★ Superintegrability in classical and quantum systems. **2005g:00018**

70H07 Nonintegrable systems

Burov, A. A. (*with* Nechaev, A. N.) On nonintegrability in the problem of the motion of a heavy double pendulum. (Russian. English and Russian summaries) **2005d:70009**
Driebe, Dean J. *see* **Li, Chun-Biu et al., 2005f:70027**
Li, Chun-Biu (*with* Driebe, Dean J.; Petrosky, Tomio) Resonance overlap, secular effects, and nonintegrability: an approach from ensemble theory. (English summary) **2005f:70027**
Lopes, S. R. *see* **Szezech, J. D., Jr. et al., 2005i:70042**
Nechaev, A. N. *see* **Burov, A. A., 2005d:70009**
Petrosky, Tomio *see* **Li, Chun-Biu et al., 2005f:70027**
Szezech, J. D., Jr. (*with* Lopes, S. R.; Viana, Ricardo L.) Finite-time Lyapunov spectrum for chaotic orbits of non-integrable Hamiltonian systems. (English summary) **2005i:70042**
Viana, Ricardo L. *see* **Szezech, J. D., Jr. et al., 2005i:70042**

Items with secondary classifications in 70H07

Addas-Zanata, Salvador (*with* Grotta Ragazzo, Clodoaldo) Conservative dynamics: unstable sets for saddle-center loops. (English summary) **2005b:37119**
Almeida, M. A. (*with* Stuchi, T. J.) Non-integrability of the anisotropic Stormer problem with angular momentum. (English summary) **2005d:70003**
Audin, Michèle Exemples de hamiltoniens non intégrables en mécanique analytique réelle. (English and French summaries) [Examples of nonintegrable Hamiltonians in real analytic mechanics] **2005m:37128**
Boucher, Delphine (*with* Weil, Jacques-Arthur) Application of J.-J. Morales and J.-P. Ramis' theorem to test the non-complete integrability of the planar three-body problem. (English summary) **2005d:37115**
Broer, Henk W. (*with* Hoveijn, Igor; van Noort, M.; Simó, C.; Vegter, Gert) The parametrically forced pendulum: a case study in $1\frac{1}{2}$ degree of freedom. (English summary) **2005j:37088**
Burov, A. A. On restricted problems in the mechanics of a rigid body. (Russian. English and Russian summaries) **2005e:70005**
Grotta Ragazzo, Clodoaldo *see* **Addas-Zanata, Salvador, 2005b:37119**
Hoveijn, Igor *see* **Broer, Henk W. et al., 2005j:37088**
Maciejewski, Andrzej J. (*with* Przybylska, Maria) Non-integrability of restricted two body problems in constant curvature spaces. (English summary) **2005g:70011**
van Noort, M. *see* **Broer, Henk W. et al., 2005j:37088**
Przybylska, Maria *see* **Maciejewski, Andrzej J., 2005g:70011**
Simó, C. *see* **Broer, Henk W. et al., 2005j:37088**
Stuchi, T. J. *see* **Almeida, M. A., 2005d:70003**
Umeno, Ken *see* **Yoshimura, Kazuyuki, 2005m:37129**
Vegter, Gert *see* **Broer, Henk W. et al., 2005j:37088**
Weil, Jacques-Arthur *see* **Boucher, Delphine, 2005d:37115**
Yoshimura, Kazuyuki (*with* Umeno, Ken) Nonintegrability of nonhomogeneous nonlinear lattices. (English summary) **2005m:37129**

70H08 Nearly integrable Hamiltonian systems, KAM theory

Items with secondary classifications in 70H08

Benet, L. (*with* Merlo, O.) Phase-space structure for narrow planetary rings. (English summary) **2005f:70019**
Berti, Massimiliano (*with* Biasco, Luca; Valdinoci, Enrico) Periodic orbits close to elliptic tori and applications to the three-body problem. (English summary) **2005e:37130**
Biasco, Luca (*with* Chierchia, Luigi; Valdinoci, Enrico) Elliptic two-dimensional invariant tori for the planetary three-body problem. (English summary) **2005m:70052**
— *see also* **Berti, Massimiliano et al., 2005e:37130**
Broer, Henk W. Kolmogorov: the "K" in KAM. (Spanish)
— (*with* Hoveijn, Igor; van Noort, M.; Simó, C.; Vegter, Gert) The parametrically forced pendulum: a case study in $1\frac{1}{2}$ degree of freedom. (English summary) **2005j:37088**
Brüning, Jochen (*with* Dobrokhotov, S. Yu.; Pankrashkin, Konstantin) The spectral asymptotics of the two-dimensional Schrödinger operator with a strong magnetic field. I. (English summary) **2005e:81052**
Chierchia, Luigi KAM lectures. **2005g:37114**
— (*with* Qian, Dingbian) Moser's theorem for lower dimensional tori. (English summary) **2005h:37131**
— *see also* **Biasco, Luca et al., 2005m:70052**
Cong, Fuzhong (*with* Li, Yong[6]) Effective stability for generalized Hamiltonian systems. (English summary) **2005m:37127**
Contopoulos, G. *see* **Efthymiopoulos, C. et al., 2005f:70025**
Cordani, Bruno From order to chaos in a perturbed Kepler problem. (English summary) **2005h:70006**
Delshams, Amadeu (*with* Gutiérrez, Pere) Exponentially small spliting for whiskered tori in Hamiltonian systems: continuation of transverse homoclinic orbits. (English summary) **2005j:37101**
— (*with* Gutiérrez, Pere; Seara, Tere M.) Exponentially small splitting for whiskered tori in Hamiltonian sysems: flow-box coordinates and upper bounds. (English summary) **2005j:37102**
Dobrokhotov, S. Yu. *see* **Brüning, Jochen et al., 2005e:81052**
Dullin, Holger R. (*with* Fassò, Francesco) An algorithm for detecting directional quasi-convexity. (English summary) **2005h:37132**
— (*with* Vũ Ngọc, San) Vanishing twist near focus-focus points. (English summary) **2005e:37121**
— (*with* Ivanov, Aleksei V.) Vanishing twist in the Hamiltonian Hopf bifurcation. (English summary) **2005h:37119**
Efthymiopoulos, C. (*with* Giorgilli, Antonio; Contopoulos, G.) Nonconvergence of formal integrals. II. Improved estimates for the optimal order of truncation. (English summary) **2005f:70025**
Fassò, Francesco *see* **Dullin, Holger R., 2005h:37132**
Froeschlé, Claude *see* **Guzzo, Massimiliano et al., 2005m:37139**
Gaidashev, Denis G. (*with* Koch, Hans) Renormalization and shearless invariant tori: numerical results. (English summary) **2005f:37128**
— Renormalization of isoenergetically degenerate Hamiltonian flows and associated bifurcations of invariant tori. (English summary) **2005m:37125**
Giorgilli, Antonio *see* **Efthymiopoulos, C. et al., 2005f:70025**
Grebogi, Celso *see* **Motter, Adilson E. et al., 2005k:70042**
Gutiérrez, Pere *see* **Delshams, Amadeu et al., 2005j:37101** *and* **2005j:37102**
Guzzo, Massimiliano A direct proof of the Nekhoroshev theorem for nearly integrable symplectic maps. (English summary) **2005h:37133**
— (*with* Lega, Elena; Froeschlé, Claude) First numerical evidence of global Arnold diffusion in quasi-integrable systems. (English summary) **2005m:37139**
Hanßmann, Heinz A survey on bifurcations of invariant tori. (English summary) **2005c:37101**
Hoveijn, Igor *see* **Broer, Henk W. et al., 2005j:37088**
Hubbard, John Hamal (*with* Il′yashenko, Yuliĭ S.) A proof of Kolmogorov's theorem. (English summary) **2005c:37109**
Il′yashenko, Yuliĭ S. *see* **Hubbard, John Hamal, 2005c:37109**
Ivanov, Aleksei V. *see* **Dullin, Holger R., 2005h:37119**
Kantz, Holger *see* **Motter, Adilson E. et al., 2005k:70042**
Khalique, C. M. *see* **Ünal, Gazanfer, 2005g:70034**
Koch, Hans *see* **Gaidashev, Denis G., 2005f:37128**
Kossenko, I. I. On preservation of conditionally-periodic satellite librations in elliptic orbit with account of solar light pressure. (English summary) **2005c:70030**
Lega, Elena *see* **Guzzo, Massimiliano et al., 2005m:37139**
Li, Yong[6] (*with* Yi, Yingfei) A quasi-periodic Poincaré's theorem. (English summary) **2005f:37129**
— *see also* **Cong, Fuzhong, 2005m:37127**
Livi, Roberto (*with* Ruffo, Stefano; Shepelyanskiĭ, D. L.) Kolmogorov pathways from integrability to chaos and beyond. (English summary) **2005b:37132**
de la Llave, Rafael (*with* Wayne, C. Eugene) Whiskered and low dimensional tori in nearly integrable Hamiltonian systems. (English summary) **2005h:37134**
Lochak, Pierre (*with* Marco, Jean-Pierre; Sauzin, David) On the splitting of invariant manifolds in multidimensional near-integrable Hamiltonian systems. (English summary) **2005k:37132**
Marco, Jean-Pierre (*with* Sauzin, David) Wandering domains and random walks in Gevrey near-integrable systems. (English summary) **2005g:37115**
— *see also* **Lochak, Pierre et al., 2005k:37132**
Markeev, A. P. Stability of motion of a rigid body in the Steklov case. (Russian) **2005m:70040**
(Martínez, Regina) *see* **Broer, Henk W.**
Mather, John N. Arnol′d diffusion. I. Announcement of results. (Russian. Russian summary) **2005m:37142**
Merlo, O. *see* **Benet, L., 2005f:70019**
Motter, Adilson E. (*with* de Moura, Alessandro P. S.; Grebogi, Celso; Kantz, Holger) Effective dynamics in Hamiltonian systems with mixed phase space. (English summary) **2005k:70042**
de Moura, Alessandro P. S. *see* **Motter, Adilson E. et al., 2005k:70042**
Niederman, Laurent Exponential stability for small perturbations of steep integrable Hamiltonian systems. (English summary) **2005a:37101**
van Noort, M. *see* **Broer, Henk W. et al., 2005j:37088**
Pankrashkin, Konstantin *see* **Brüning, Jochen et al., 2005e:81052**
Procesi, Michela Exponentially small splitting and Arnold diffusion for multiple time scale systems. (English summary) **2005b:37133**
Qian, Dingbian *see* **Chierchia, Luigi, 2005h:37131**
Rudnev, Michael (*with* Ten, V. V.) Sharp upper bounds for splitting of separatrices near a simple resonance. (English summary) **2005m:37143**
Ruffo, Stefano *see* **Livi, Roberto et al., 2005b:37132**
Salamon, Dietmar A. The Kolmogorov-Arnold-Moser theorem. (English summary) **2005h:37135**
Sauzin, David Nekhoroshev estimates and instability for Gevrey class Hamiltonians.

(English summary) **2005c:37111**
— *see also* **Marco, Jean-Pierre**, **2005g:37115** *and* **Lochak, Pierre et al.**, **2005k:37132**
Seara, Tere M. *see* **Delshams, Amadeu et al.**, **2005j:37102**
Sevryuk, Mikhail B. The classical KAM theory at the dawn of the twenty-first century. (English and Russian summaries) **2005d:37128**
Shepelyanskiĭ, D. L. *see* **Livi, Roberto et al.**, **2005b:37132**
Simó, C. *see* **Broer, Henk W. et al.**, **2005j:37088**
Ten, V. V. *see* **Rudnev, Michael**, **2005m:37143**
Treshchëv, Dmitriĭ V. Evolution of slow variables in a priori unstable Hamiltonian systems. (English summary) **2005g:37116**
Ünal, Gazanfer (*with* Khalique, C. M.) Approximate first integrals of the Hénon-Heiles system revisited. (English summary) **2005g:70034**
Valdinoci, Enrico *see* **Berti, Massimiliano et al.**, **2005e:37130** *and* **Biasco, Luca et al.**, **2005m:70052**
Vegter, Gert *see* **Broer, Henk W. et al.**, **2005j:37088**
Vũ Ngọc, San *see* **Dullin, Holger R.**, **2005e:37121**
Wayne, C. Eugene *see* **de la Llave, Rafael**, **2005h:37134**
Yi, Yingfei *see* **Li, Yong**[6], **2005f:37129**

Items listed otherwise than by author

Dynamical systems. Part I ★ Dynamical systems. Part I. **2005a:37002**
Pisa ★ Dynamical systems. Part I. **2005a:37002**

70H09 Perturbation theories

Items with secondary classifications in 70H09

Abdullaev, S. S. Canonical maps near separatrix in Hamiltonian systems. (English summary) **2005m:37144**
Baldomá, Inmaculada (*with* Fontich, Ernest) Exponentially small splitting of invariant manifolds of parabolic points. (English summary) **2005f:37127**
Berti, Massimiliano (*with* Biasco, Luca; Bolle, Philippe) Drift in phase space: a new variational mechanism with optimal diffusion time. (English and French summaries) **2005h:37130**
Biasco, Luca *see* **Berti, Massimiliano et al.**, **2005h:37130**
Bolle, Philippe *see* **Berti, Massimiliano et al.**, **2005h:37130**
Broer, Henk W. (*with* Hoveijn, Igor; van Noort, M.; Simó, C.; Vegter, Gert) The parametrically forced pendulum: a case study in $1\frac{1}{2}$ degree of freedom. (English summary) **2005j:37088**
Chow, Shui-Nee (*with* Young, Todd R.) A geometric proof of separatrix crossing results. (English summary) **2005b:70022**
Fontich, Ernest *see* **Baldomá, Inmaculada**, **2005f:37127**
Foschi, S. (*with* Mingari Scarpello, Giovanni; Ritelli, Daniele) Higher order approximation of the period-energy function for single degree of freedom Hamiltonian systems. (English summary) **2005e:34114**
Giorgilli, Antonio Exponential stability of Hamiltonian systems. **2005c:37108**
Gu, Shu Long (*with* Zhang, Hong Bin[1]) Integral invariants of relativistic Birkhoff systems. (Chinese. English and Chinese summaries)
Hanßmann, Heinz Hamiltonian torus bifurcations related to simple singularities. (English summary) **2005j:37089**
Henrard, Jacques The adiabatic invariant theory and applications. **2005m:70069**
Hoveijn, Igor *see* **Broer, Henk W. et al.**, **2005j:37088**
Mingari Scarpello, Giovanni *see* **Foschi, S. et al.**, **2005e:34114**
Neishtadt, A. I. On averaging in two-frequency systems with small Hamiltonian and much smaller non-Hamiltonian perturbations. (English and Russian summaries) **2005e:37127**
van Noort, M. *see* **Broer, Henk W. et al.**, **2005j:37088**
Ritelli, Daniele *see* **Foschi, S. et al.**, **2005e:34114**
Simó, C. *see* **Broer, Henk W. et al.**, **2005j:37088**
Vegter, Gert *see* **Broer, Henk W. et al.**, **2005j:37088**
Vittot, Michel Perturbation theory and control in classical or quantum mechanics by an inversion formula. (English summary) **2005d:81145**
Young, Todd R. *see* **Chow, Shui-Nee**, **2005b:70022**
Zhang, Hong Bin[1] *see* **Gu, Shu Long**

70H11 Adiabatic invariants

Chow, Shui-Nee (*with* Young, Todd R.) A geometric proof of separatrix crossing results. (English summary) **2005b:70022**
Henrard, Jacques The adiabatic invariant theory and applications. **2005m:70069**
Young, Todd R. *see* **Chow, Shui-Nee**, **2005b:70022**

Items with secondary classifications in 70H11

Chen, Li Qun *see* **Fu, Jing-Li**, **2005b:70023**
Chen, Xiang Wei[1] (*with* Li, Yan-Min; Zhao, Yong-Hong) Lie symmetries, perturbation to symmetries and adiabatic invariants of Lagrange system. (English summary) **2005i:70046**
Costin, Ovidiu (*with* Dupaigne, Louis; Kruskal, Martin D.) Borel summation of adiabatic invariants. (English summary) **2005k:34344**
Cotter, Colin John (*with* Reich, Sebastian) Adiabatic invariance and applications: from molecular dynamics to numerical weather prediction. (English summary) **2005g:37119**
Diminnie, David C. *see* **Haberman, Richard**, **2005d:37112**
Dolgopyat, Dmitry Evolution of adiabatic invariants in stochastic averaging. (English summary) **2005c:34110**
Dumas, H. Scott (*with* Ellison, James A.; Vogt, Mathias) First-order averaging principles for maps with applications to accelerator beam dynamics. (English summary) **2005j:37103**
Dupaigne, Louis *see* **Costin, Ovidiu et al.**, **2005k:34344**
Ellison, James A. *see* **Dumas, H. Scott et al.**, **2005j:37103**
Fu, Jing-Li (*with* Chen, Li Qun) Perturbation of symmetries of rotational relativistic Birkhoffian systems and its inverse problem. (English summary) **2005b:70023**
Haberman, Richard (*with* Diminnie, David C.) On the dynamic unfolding of a saddle-center bifurcation and the change in the action. (English summary) **2005d:37112**
Kozlov, Valeriĭ V. Statistical equilibrium in the sense of Gibbs and Poincaré in systems with slowly varying parameters. (Russian) **2005i:82007**
Kruskal, Martin D. *see* **Costin, Ovidiu et al.**, **2005k:34344**
Li, Yan-Min *see* **Chen, Xiang Wei[1] et al.**, **2005i:70046**
Métris, Gilles *see* **Spallicci, Alessandro D. A. M. et al.**, **2005g:70019**
Morbidelli, Alessandro *see* **Spallicci, Alessandro D. A. M. et al.**, **2005g:70019**
Reich, Sebastian *see* **Cotter, Colin John**, **2005g:37119**
Spallicci, Alessandro D. A. M. (*with* Morbidelli, Alessandro; Métris, Gilles) The three-body problem and the Hannay angle. (English summary) **2005g:70019**
Vogt, Mathias *see* **Dumas, H. Scott et al.**, **2005j:37103**
Zhao, Yong-Hong *see* **Chen, Xiang Wei[1] et al.**, **2005i:70046**

70H12 Periodic and almost periodic solutions

Chalykh, Oleg A. (*with* Veselov, A. P.) A remark on rational isochronous potentials. (English summary) **2005h:70020**
Veselov, A. P. *see* **Chalykh, Oleg A.**, **2005h:70020**

Items with secondary classifications in 70H12

Berretti, Alberto (*with* Gentile, Guido) Scaling of the critical function for the standard map: some numerical results. (English summary) **2005i:37046**
Berti, Massimiliano (*with* Biasco, Luca; Valdinoci, Enrico) Periodic orbits close to elliptic tori and applications to the three-body problem. (English summary) **2005e:37130**
Biasco, Luca *see* **Berti, Massimiliano et al.**, **2005e:37130**
Borisov, Alekseĭ Vladimirovich (*with* Mamaev, I. S.; Kilin, A. A.) Two-body problem on a sphere. Reduction, stochasticity, periodic orbits. (English summary) **2005k:37199**
Chen, Yi-Chiuan Multibump orbits continued from the anti-integrable limit for Lagrangian systems. (English summary) **2005b:37135**
Corbera, Montserrat (*with* Llibre, Jaume) Families of periodic orbits for the spatial isosceles 3-body problem. (English summary) **2005b:70007**
Efstathiou, K. (*with* Sadovskiĭ, D. A.) Perturbations of the 1: 1: 1 resonance with tetrahedral symmetry: a three degree of freedom analogue of the two degree of freedom Hénon-Heiles Hamiltonian. (English summary) **2005b:37130**
Gentile, Guido *see* **Berretti, Alberto**, **2005i:37046**
Ginzburg, Viktor L. (*with* Lerman, Eugene) Existence of relative periodic orbits near relative equilibria. (English summary) **2005d:37131**
Kilin, A. A. *see* **Borisov, Alekseĭ Vladimirovich et al.**, **2005k:37199**
Lerman, Eugene *see* **Ginzburg, Viktor L.**, **2005d:37131**
Llibre, Jaume *see* **Corbera, Montserrat**, **2005b:70007**
Maciejewski, Andrzej J. (*with* Rybicki, Sławomir) Global bifurcations of periodic solutions of the restricted three body problem. (English summary) **2005e:70011**
Mamaev, I. S. *see* **Borisov, Alekseĭ Vladimirovich et al.**, **2005k:37199**
Palacián, Jesús F. (*with* Yanguas, Patricia) Invariant manifolds of spatial restricted three-body problems: the lunar case. (English summary) **2005i:70013**
Rybicki, Sławomir *see* **Maciejewski, Andrzej J.**, **2005e:70011**
Sadovskiĭ, D. A. *see* **Efstathiou, K.**, **2005b:37130**
Timoumi, Mohsen Multiple closed trajectories of a relativistic particle. (English summary) **2005f:37133**
Valdinoci, Enrico *see* **Berti, Massimiliano et al.**, **2005e:37130**
Yanguas, Patricia *see* **Palacián, Jesús F.**, **2005i:70013**

70H14 Stability problems

Sosnits'kiĭ, S. P. On the stability of the equilibrium of gyroscopically coupled systems. (Ukrainian. English and Ukrainian summaries) **2005d:70010**

Items with secondary classifications in 70H14

Blekhman, I. I. (*with* Yaroshevich, N. P.) On the extension of the domain of applicability of the integral criterion (the extremal property) for stability in synchronization problems. (Russian. Russian summary) **2005k:70045**
Chen, Thomas Critical manifolds and stability in Hamiltonian systems with non-holonomic constraints. (English summary) **2005d:37135**
Dos Santos, F. *see* **Vidal, Claudio**, **2005k:37135**
Giorgilli, Antonio Exponential stability of Hamiltonian systems. **2005c:37108**
Grebenikov, E. A. (*with* Zemtsova, N. I.; Ikhsanov, E. V.) Theorems on the stability of stationary solutions of the restricted ten-body problem for the third-order resonance case. (Russian. Russian summary) **2005k:70031**
Henrard, Jacques (*with* Schwanen, Gabriel) Rotation of synchronous satellites. (English summary) **2005m:70058**
Huang, Zhi Long *see* **Zhu, W. Q.**, **2005d:93146**
Ikhsanov, E. V. *see* **Grebenikov, E. A. et al.**, **2005k:70031**
Ollé, Mercè (*with* Pacha, Juan R.; Villanueva, Jordi) Dynamics and bifurcation near the transition from stability to complex instability. (English summary) **2005d:37113**
Pacha, Juan R. *see* **Ollé, Mercè et al.**, **2005d:37113**
Saa, Alberto On the viability of local criteria for chaos. (English summary) **2005j:37046**
Schwanen, Gabriel *see* **Henrard, Jacques**, **2005m:70058**
Vidal, Claudio (*with* Dos Santos, F.) Stability of equilibrium positions of periodic Hamiltonian systems under third and fourth order resonances. (English summary) **2005k:37135**
Villanueva, Jordi *see* **Ollé, Mercè et al.**, **2005d:37113**
Yaroshevich, N. P. *see* **Blekhman, I. I.**, **2005k:70045**
Ying, Z. G. Generalized Hamiltonian norm, Lyapunov exponent and stochastic stability for quasi-Hamiltonian systems. (English summary) **2005i:70038**
Zemtsova, N. I. *see* **Grebenikov, E. A. et al.**, **2005k:70031**
Zevin, Aleksandr Aronovich A new approach to the theory of the stability of linear canonical systems of differential equations with periodic coefficients. (Russian. Russian summary) **2005d:37114**

Zhu, W. Q. (*with* Huang, Zhi Long) Stochastic stabilization of quasi non-integrable Hamiltonian systems. (English summary) **2005d:93146**

70H15 Canonical and symplectic transformations

Deryabin, Mikhail V. On asymptotic Hopf invariant for Hamiltonian systems. (English summary) **2005m:70070**
Fortuné, Danielle *see* **Vallée, Claude et al., 2005i:70043**
Hjiaj, Mohammed *see* **Vallée, Claude et al., 2005i:70043**
de Saxcé, Géry *see* **Vallée, Claude et al., 2005i:70043**
Vallée, Claude (*with* Hjiaj, Mohammed; Fortuné, Danielle; de Saxcé, Géry) Generalized Legendre-Fenchel transformation. (English summary) **2005i:70043**

Items with secondary classifications in 70H15

Brodlie, Alastair Nonlinear canonical transformations in classical and quantum mechanics. (English summary) **2005b:81090**
Chekanov, N. A. *see* **Ukolov, Yu. A. et al., 2005j:70001**
DeDeo, M. R. (*with* Velasquez, Elinor) An introduction to symplectic maps and generalizations of the Toda lattice. (English summary) **2005i:70040**
de Gosson, Maurice A. On the notion of phase in mechanics. (English summary) **2005d:70008**
Gusev, Aleksandr A. *see* **Ukolov, Yu. A. et al., 2005j:70001**
Guzzo, Massimiliano A direct proof of the Nekhoroshev theorem for nearly integrable symplectic maps. (English summary) **2005h:37133**
Jung, Christof (*with* Seligman, Thomas H.; Torres, J. M.) Canonically transformed detectors applied to the classical inverse scattering problem. (English summary) **2005i:70035**
Li, Zi Ping *see* **Zhang, Ying[8], 2005k:70052**
Petrov, A. G. On the invariant normalization of nonautonomous Hamiltonian systems. (Russian. Russian summary) **2005d:37107**
Qin, Meng Zhao *see* **Su, Hong-Ling, 2005f:37180**
Rostovtsev, V. A. *see* **Ukolov, Yu. A. et al., 2005j:70001**
Seligman, Thomas H. *see* **Jung, Christof et al., 2005i:70035**
Struckmeier, Jürgen Hamiltonian dynamics on the symplectic extended phase space for autonomous and non-autonomous systems. (English summary) **2005j:70037**
Su, Hong-Ling (*with* Qin, Meng Zhao) Symplectic schemes for Birkhoffian system. (English summary) **2005f:37180**
Torres, J. M. *see* **Jung, Christof et al., 2005i:70035**
Ukolov, Yu. A. (*with* Chekanov, N. A.; Gusev, Aleksandr A.; Rostovtsev, V. A.; Vinitskiĭ, S. I.; Uwano, Yoshio) A REDUCE program for the normalization of polynomial Hamiltonians. (English summary) **2005j:70001**
Uwano, Yoshio *see* **Ukolov, Yu. A. et al., 2005j:70001**
Velasquez, Elinor *see* **DeDeo, M. R., 2005i:70040**
Vinitskiĭ, S. I. *see* **Ukolov, Yu. A. et al., 2005j:70001**
Zhang, Ying[8] (*with* Li, Zi Ping) The quantal Poincaré-Cartan integral invariant for singular higher-order Lagrangian in field theories. (English summary) **2005k:70052**

70H20 Hamilton-Jacobi equations

Bekov, A. A. An integrable case of the Hamilton-Jacobi equation for a class of dynamical systems. II. A generalization of the Darboux-Demin case. (Russian. English, Russian and Kazakh summaries) **2005i:70044**
Chanu, Claudia Separation of variables in the null Hamilton-Jacobi equation. (English summary)
Rauch-Wojciechowski, Stefan (*with* Waksjö, Claes) What an effective criterion of separability says about the Calogero type systems. (English summary) **2005i:70045**
— *see also* **Waksjö, Claes, 2005c:70022**
Waksjö, Claes (*with* Rauch-Wojciechowski, Stefan) How to find separation coordinates for the Hamilton-Jacobi equation: a criterion of separability for natural Hamiltonian systems. (English summary) **2005c:70022**
— *see also* **Rauch-Wojciechowski, Stefan, 2005i:70045**

Items with secondary classifications in 70H20

Alonso Izquierdo, A. (*with* González León, M. A.; de la Torre Mayado, M.; Mateos Guilarte, J.) On two-dimensional superpotentials: from classical Hamilton-Jacobi theory to 2D supersymmetric quantum mechanics. (English summary) **2005g:81108**
Anantharaman, Nalini On the zero-temperature or vanishing viscosity limit for certain Markov processes arising from Lagrangian dynamics. (English summary) **2005i:82004**
Baleanu, Dumitru (*with* Güler, Yurdahan) Hamilton-Jacobi and symplectic analysis of a particle constrained on a circle. (English summary) **2005f:70028**
— Reparametrization invariance and Hamilton-Jacobi formalism. (English summary) **2005c:70035**
Bass, Fridrikh G. (*with* Freilikher, V.; Maradudin, A. A.; Prosentsov, V.) Geometrical optics approximation for nonlinear equations. (English summary) **2005c:78001**
Capitanio, Gianmarco Generic singularities of minimax solutions to Hamilton-Jacobi equations. (English summary) **2005f:53137**
Da Lio, Francesca Remarks on the strong maximum principle for viscosity solutions to fully nonlinear parabolic equations. (English summary) **2005i:35121**
Dragović, Vladimir Separability in Hamilton-Jacobi sense in two degrees of freedom and the Appell hypergeometric functions. (English summary) **2005k:37127**
Efroimsky, Michael (*with* Goldreich, Peter) Gauge symmetry of the N-body problem in the Hamilton-Jacobi approach. (English summary) **2005a:70011**
El-Zalan, Hosam A. *see* **Muslih, Sami I., 2005b:70024**
Farkas, Henrik *see* **Kály-Kullai, Kristóf et al., 2005b:58063**
Fathi, Albert Regularity of C^1 solutions of the Hamilton-Jacobi equation. (English and French summaries) **2005d:37134**
Freilikher, V. *see* **Bass, Fridrikh G. et al., 2005c:78001**
Ghassib, Humam B. *see* **Nawafleh, Khaled I. et al., 2005a:70025**
Goldreich, Peter *see* **Efroimsky, Michael, 2005a:70011**
González León, M. A. *see* **Alonso Izquierdo, A. et al., 2005g:81108**
Güler, Yurdahan Geometrical interpretation of constrained systems. (English summary)
— *see also* **Baleanu, Dumitru, 2005f:70028**
Kalnins, E. G. (*with* Kress, J. M.; Miller, Willard, Jr.; Winternitz, Pavel) Superintegrable systems in Darboux spaces. (English summary) **2005f:37124**
Kály-Kullai, Kristóf (*with* Volford, András; Farkas, Henrik) Waves of excitations in heterogeneous annular region. II. Strong asymmetry. (English summary) **2005b:58063**
Kress, J. M. *see* **Kalnins, E. G. et al., 2005f:37124**
Maradudin, A. A. *see* **Bass, Fridrikh G. et al., 2005c:78001**
Mateos Guilarte, J. *see* **Alonso Izquierdo, A. et al., 2005g:81108**
Miller, Willard, Jr. Complete sets of invariants for classical systems. (English summary) **2005h:37126**
— *see also* **Kalnins, E. G. et al., 2005f:37124**
Miron, Radu On the Hamilton-Jacobi equations of the Hamiltonians of order $k \leq 1$. (English summary) **2005i:53090**
Muslih, Sami I. (*with* El-Zalan, Hosam A.) On the Hamilton-Jacobi treatment of constrained systems. (English summary) **2005b:70024**
— Hamilton-Jacobi quantization of constrained systems with second-order Lagrangians. (English summary) **2005c:81122**
— Integrability and action function in multi-Hamiltonian systems. (English summary) **2005c:70024**
Nawafleh, Khaled I. (*with* Rabei, Eqab M.; Ghassib, Humam B.) Hamilton-Jacobi treatment of constrained systems. (English summary) **2005a:70025**
Olivé, C. (*with* Sauzin, David; Seara, Tere M.) Resurgence in a Hamilton-Jacobi equation. (English and French summaries) **2005b:37109**
Prosentsov, V. *see* **Bass, Fridrikh G. et al., 2005c:78001**
Rabei, Eqab M. *see* **Nawafleh, Khaled I. et al., 2005a:70025**
Rovelli, Carlo Dynamics without time for quantum gravity: covariant Hamiltonian formalism and Hamilton-Jacobi equation on the space $\mathcal{F}$. (English summary) **2005d:83056**
Sauzin, David *see* **Olivé, C. et al., 2005b:37109**
Seara, Tere M. *see* **Olivé, C. et al., 2005b:37109**
de la Torre Mayado, M. *see* **Alonso Izquierdo, A. et al., 2005g:81108**
Tsyganov, Andreĭ Vladimirovich[1] Toda chains in the Jacobi method. (Russian. Russian summary) **2005e:37125**
Valent, Galliano Integrability versus separability for the multi-centre metrics. (English summary) **2005d:53073**
Volford, András *see* **Kály-Kullai, Kristóf et al., 2005b:58063**
Winternitz, Pavel *see* **Kalnins, E. G. et al., 2005f:37124**

70H25 Hamilton's principle

Kalaba, Robert E. *see* **Udwadia, Firdaus E. et al.**
Phohomsiri, Phailaung *see* **Udwadia, Firdaus E. et al.**
Udwadia, Firdaus E. (*with* Kalaba, Robert E.; Phohomsiri, Phailaung) Mechanical systems with nonideal constraints: explicit equations without the use of generalized inverses. (English summary)

Items with secondary classifications in 70H25

Bailey, C. D. Hamilton and the law of varying action revisited. (English summary) **2005h:70001**
Chen, Thomas Critical manifolds and stability in Hamiltonian systems with non-holonomic constraints. (English summary) **2005d:37135**
Kobayashi, Marcelo H. *see* **Terra, Gláucio, 2005d:37138**
Lew, Adrian (*with* Marsden, Jerrold E.; Ortiz, Michael; West, Matthew) Variational time integrators. (English summary) **2005g:74054**
Marsden, Jerrold E. *see* **Lew, Adrian et al., 2005g:74054**
Ortiz, Michael *see* **Lew, Adrian et al., 2005g:74054**
Terra, Gláucio (*with* Kobayashi, Marcelo H.) On the variational mechanics with non-linear constraints. (English and French summaries) **2005d:37138**
West, Matthew *see* **Lew, Adrian et al., 2005g:74054**
Yoshimura, Hiroaki Duality and complementarity in constrained mechanical systems. (English summary) **2005i:70024**

70H30 Other variational principles

He, Ji Huan Generalized action principles in mechanics. (English summary)
Villani, Matteo Variational extensions of classical mechanics: stochastic and quantum dynamics. (English summary) **2005c:70023**

Items with secondary classifications in 70H30

Cendra, Hernán (*with* Marsden, Jerrold E.; Pekarsky, Sergey; Ratiu, Tudor S.) Variational principles for Lie-Poisson and Hamilton-Poincaré equations. (English and Russian summaries) **2005m:37123**
Ekeland, Ivar Non-convex duality. (English summary) **2005i:49039**
Ferrario, Davide L. (*with* Terracini, Susanna) On the existence of collisionless equivariant minimizers for the classical n-body problem. (English summary) **2005b:70010**
Ghanam, R. (*with* Thompson, Gerard; Miller, E. J.) Variationality of four-dimensional Lie group connections. (English summary) **2005i:70030**
Leutin, A. P. Extremal property of the constraint reactions of systems of coupled bodies. (Russian. Russian summary) **2005h:70005**
Marsden, Jerrold E. *see* **Cendra, Hernán et al., 2005m:37123**
Miller, E. J. *see* **Ghanam, R. et al., 2005i:70030**
Moiseiwitsch, B. L. ★ Variational principles. **2005h:49106**
Munteanu, Florian *see* **Popescu, Liviu, 2005g:53134**
Pekarsky, Sergey *see* **Cendra, Hernán et al., 2005m:37123**
Popescu, Liviu (*with* Munteanu, Florian) The variational problem in singular rheonomic Lagrange spaces. (English summary) **2005g:53134**
Ratiu, Tudor S. *see* **Cendra, Hernán et al., 2005m:37123**
Terracini, Susanna *see* **Ferrario, Davide L., 2005b:70010**
Thompson, Gerard *see* **Ghanam, R. et al., 2005i:70030**

Udwadia, Firdaus E. On a general principle of mechanics and its application to general non-ideal nonholonomic constraints. (English summary) **2005e:70027**

70H33 Symmetries and conservation laws, reverse symmetries, invariant manifolds and their bifurcations, reduction

Chen, Li Qun *see* **Zhang, Hong Bin[1] et al.** *and* **Fu, Jing-Li et al.**
Chen, Pei Sheng *see* **Fang, Jian Hui et al.**
Chen, Xiang Wei[1] (*with* Li, Yan-Min; Zhao, Yong-Hong) Lie symmetries, perturbation to symmetries and adiabatic invariants of Lagrange system. (English summary) **2005i:70046**
Cushman, Richard *see* **Dullin, Holger R. et al., 2005j:70039**
Damianou, Pantelis A. (*with* Sophocleous, Christodoulos) Classification of Noether symmetries for Lagrangians with three degrees of freedom. (English summary) **2005e:70026**
Dullin, Holger R. (*with* Giacobbe, Andrea; Cushman, Richard) Monodromy in the resonant swing spring. (English summary) **2005j:70039**
Fang, Jian Hui (*with* Yan, Xiang-Hong; Li, Hong; Chen, Pei Sheng) Mei symmetry and Lie symmetry of relativistic Hamiltonian system. (English summary)
Fu, Jing-Li (*with* Chen, Li Qun; Xie, Feng-ping) Form invariance, Noether and Lie symmetry of non-conservative Hamiltonian systems in phase space. (English summary)
Giacobbe, Andrea *see* **Dullin, Holger R. et al., 2005j:70039**
Gu, Shu Long (*with* Zhang, Hong Bin[1]) Integral invariants of relativistic Birkhoff systems. (Chinese. English and Chinese summaries)
— *see also* **Zhang, Hong Bin[1] et al.**
Li, Hong *see* **Fang, Jian Hui et al.**
Li, Yan-Min *see* **Chen, Xiang Wei[1] et al., 2005i:70046**
Mei, Feng Xiang Noether-Lie symmetry of a Lagrange system. (Chinese. English and Chinese summaries)
Rodríguez-Olmos, Miguel (*with* Sousa Dias, M. Esmeralda) A note on the existence and symmetries of relative equilibria in simple mechanical systems. (English summary) **2005j:70040**
Sophocleous, Christodoulos *see* **Damianou, Pantelis A., 2005e:70026**
Sousa Dias, M. Esmeralda *see* **Rodríguez-Olmos, Miguel, 2005j:70040**
Xie, Feng-ping *see* **Fu, Jing-Li et al.**
Yan, Xiang-Hong *see* **Fang, Jian Hui et al.**
Zhang, Hong Bin[1] (*with* Chen, Li Qun; Gu, Shu Long) The general Lie symmetries and non-Noether conserved quantities. (Chinese. English and Chinese summaries)
— *see also* **Gu, Shu Long**
Zhang, Jun *see* **Zhang, Li Hong**
Zhang, Li Hong (*with* Zhang, Jun) Mei symmetry and conserved quantity of relativistic Hamiltonian systems. (Chinese. English and Chinese summaries)
Zhang, Yi[7] Form invariance and non-Noether conserved quantity for holonomic mechanical systems with remainder coordinates. (Chinese. English and Chinese summaries)
Zhao, Yong-Hong *see* **Chen, Xiang Wei[1] et al., 2005i:70046**

Items with secondary classifications in 70H33

Arizmendi, C. M. (*with* Delgado Fernández, Joaquín; Núñez-Yépez, H. N.; Salas-Brito, A. L.) Lagrangian description of the variational equations. (English summary) **2005a:70019**
Ballesteros, Angel (*with* Ragnisco, Orlando) Classical dynamical systems from q-algebras: 'cluster' variables and explicit solutions. (English summary) **2005b:70020**
Beardmore, R. E. (*with* Peletier, Mark A.; Budd, Chris J.; Wadee, M. Ahmer) Bifurcations of periodic solutions satisfying the zero-Hamiltonian constraint in reversible differential equations. (English summary) **2005m:37111**
Blaom, Anthony D. Reconstruction phases for Hamiltonian systems on cotangent bundles. (English summary) **2005d:53135**
Bogoyavlenskii, Oleg I. Hidden structure of symmetries. (English summary) **2005h:37056**
Budd, Chris J. *see* **Beardmore, R. E. et al., 2005m:37111**
Castellani, Elena Dirac on gauges and constraints. (English summary) **2005i:70047**
Cendra, Hernán (*with* Ibort, Luis Alberto; de León, Manuel; Martín de Diego, David) A generalization of Chetaev's principle for a class of higher order nonholonomic constraints. (English summary) **2005d:70004**
Chen, Li Qun *see* **Fu, Jing-Li, 2005b:70023**; **2005g:70032** *and* **Zhang, Hong Bin[1] et al.**
Chen, Pei Sheng *see* **Fang, Jian Hui et al., 2005k:70038**
Chruściński, Dariusz (*with* Jamiołkowski, Andrzej) ★ Geometric phases in classical and quantum mechanics. **2005g:81125**
Crăciun, Dana (*with* Opriş, Dumitru) Discrete-continuous mechanical systems with nonholonomic constraints. (English summary) **2005g:70027**
Damianou, Pantelis A. (*with* Sophocleous, Christodoulos) Noether and master symmetries for the Toda lattice. (English summary) **2005i:37065**
Delgado Fernández, Joaquín *see* **Arizmendi, C. M. et al., 2005a:70019**
Efstathiou, K. (*with* Sadovskiĭ, D. A.; Zhilinskiĭ, B. I.) Analysis of rotation-vibration relative equilibria on the example of a tetrahedral four atom molecule. (English summary) **2005j:37087**
Fan, Cun Xin *see* **Zhang, Yi[7] et al.**
Fang, Jian Hui Mei symmetry and Noether symmetry of the relativistic variable mass system. (English summary) **2005a:70022**
— (*with* Chen, Pei Sheng; Zhang, Jun) Form invariance and Lie symmetry of variable mass nonholonomic mechanical system. (Chinese. English and Chinese summaries) **2005k:70038**
— *see also* **Li, Hong**
Fu, Jing-Li (*with* Chen, Li Qun) Perturbation of symmetries of rotational relativistic Birkhoffian systems and its inverse problem. (English summary) **2005b:70023**
— (*with* Chen, Li Qun) On Noether symmetries and form invariance of mechanico-electrical systems. (English summary) **2005g:70032**
García Pérez, Pedro Luis (*with* Rodrigo, C.) The momentum map in vakonomic mechanics. (English summary) **2005m:70065**
Ge, Wei Kuan *see* **Zhang, Yi[7] et al.**
Ginzburg, Viktor L. (*with* Lerman, Eugene) Existence of relative periodic orbits near relative equilibria. (English summary) **2005d:37131**
Grabsi, Féthi (*with* Montaldi, James; Ortega, Juan-Pablo) Bifurcation and forced symmetry breaking in Hamiltonian systems. (English and French summaries) **2005a:37091**
Gràcia, Xavier (*with* Martín, Rubén) Regularity and symmetries of nonholonomic systems. (English summary) **2005m:70066**
Gu, Shu Long (*with* Zhang, Hong Bin[1]) Form invariance of mechanical systems with higher-order integrable differential constraints. (Chinese. English and Chinese summaries)
— (*with* Zhang, Hong Bin[1]) Construction of the first integrals and integral invariants of the relativistic Birkhoff system. (Chinese. English and Chinese summaries)
— *see also* **Zhang, Hong Bin[1] et al.**
Guo, Yong Xin *see* **Luo, Shao Kai et al.**
Gutiérrez-Romero, S. (*with* Palacián, Jesús F.; Yanguas, Patricia) The invariant manifolds of a finite straight segment. (English summary) **2005h:70017**
Haghighatdoust, Gh. Some methods for topological description of common level surfaces of first integrals of a Hamiltonian system with two degrees of freedom. (*see* **2005f:00012**)
Ibort, Luis Alberto *see* **Cendra, Hernán et al., 2005d:70004**
Ibragimov, Nail Introduction [Special issue on modern group analysis].
Iwai, Toshihiro (*with* Yamaoka, Hidetaka) Stratified reduction of many-body kinetic energy operators. (English summary) **2005e:81076**
— Stratified reduction of many-body dynamical systems. (English summary) **2005c:70011**
Jamiołkowski, Andrzej *see* **Chruściński, Dariusz, 2005g:81125**
Kara, A. H. Equivalent Lagrangians and the inverse variational problem with applications. (English summary) **2005f:34018**
Karasu-Kalkanli, Ayşe *see* **Leach, P. G. L., 2005c:34068**
Khalique, C. M. *see* **Ünal, Gazanfer, 2005g:70034**
Klimov, D. M. (*with* Zhuravlëv, V. F.) ★ Group-theoretic methods in mechanics and applied mathematics. **2005c:70020**
Kobayashi, Marcelo H. (*with* Oliva, Waldyr M.) On the Birkhoff approach to classical mechanics. (English summary) **2005e:70022**
Koiller, Jair *see* **de M. Rios, Pedro, 2005e:70019**
Leach, P. G. L. (*with* Nucci, M. C.) Reduction of the classical MICZ-Kepler problem to a two-dimensional linear isotropic harmonic oscillator. (English summary) **2005f:70014**
— (*with* Karasu-Kalkanli, Ayşe) The Lie algebra sl(2, **R**) and so-called Kepler-Ermakov systems. (English summary) **2005c:34068**
— The solution of some quantum nonlinear oscillators with the common symmetry group SL(2, **R**). (English summary) **2005k:81065**
— *see also* **Nucci, M. C., 2005g:70012**
de León, Manuel *see* **Cendra, Hernán et al., 2005d:70004**
Lerman, Eugene *see* **Ginzburg, Viktor L., 2005d:37131**
Li, Hong (*with* Fang, Jian Hui) Mei symmetry of variable mass systems with unilateral holonomic constraints. (Chinese. English and Chinese summaries)
Li, Ren Jie *see* **Qiao, Yong Fen et al.**
Lou, Zhi Mei Form invariance of second-order linear nonholonomic systems in phase space. (Chinese. English and Chinese summaries) **2005c:70016**
— Lie symmetries and conserved quantities of third-order linear nonholonomic systems with unilateral constraint in a phase space. (Chinese. English and Chinese summaries)
Luo, Shao Kai (*with* Mei, Feng Xiang) A non-Noether conserved quantity, i.e. Hojman conserved quantity, for nonholonomic mechanical systems. (Chinese. English and Chinese summaries) **2005a:70017**
— (*with* Guo, Yong Xin; Mei, Feng Xiang) Noether symmetry and Hojman conserved quantity for nonholonomic mechanical systems. (Chinese. English and Chinese summaries)
— (*with* Guo, Yong Xin; Mei, Feng Xiang) Form invariance and Hojman conserved quantity for nonholonomic mechanical systems. (Chinese. English and Chinese summaries)
Marle, Charles-Michel On mechanical systems with a Lie group as configuration space. **2005b:37116**
Martín, Rubén *see* **Gràcia, Xavier, 2005m:70066**
Martín de Diego, David *see* **Cendra, Hernán et al., 2005d:70004**
Matsui, Eric T. An equivariant Liapunov stability test and the energy-momentum-Casimir method. (English summary) **2005c:37102**
Mei, Feng Xiang (*with* Xu, Xue Jun; Zhang, Yongfa) A unified symmetry of Lagrangian systems. (English summary)
— *see also* **Luo, Shao Kai et al., 2005a:70017**; **Zhang, Yi[7], 2005c:70018** *and* **Xu, Xue Jun et al.**
Montaldi, James *see* **Grabsi, Féthi et al., 2005a:37091**
de M. Rios, Pedro (*with* Koiller, Jair) Non-holonomic systems with symmetry allowing a conformally symplectic reduction. (English summary) **2005e:70019**
Nucci, M. C. (*with* Leach, P. G. L.) Jacobi's last multiplier and symmetries for the Kepler problem plus a lineal story. (English summary) **2005g:70012**
— *see also* **Leach, P. G. L., 2005f:70014**
Núñez-Yépez, H. N. *see* **Arizmendi, C. M. et al., 2005a:70019**
Oliva, Waldyr M. *see* **Kobayashi, Marcelo H., 2005e:70022**
Opriş, Dumitru *see* **Crăciun, Dana, 2005g:70027**
Ortega, Juan-Pablo (*with* Ratiu, Tudor S.) ★ Momentum maps and Hamiltonian reduction. **2005a:53144**
— *see also* **Grabsi, Féthi et al., 2005a:37091**
Palacián, Jesús F. (*with* Yanguas, Patricia) Invariant manifolds of spatial restricted three-body problems: the lunar case. (English summary) **2005i:70013**
— *see also* **Gutiérrez-Romero, S. et al., 2005h:70017**
Peletier, Mark A. *see* **Beardmore, R. E. et al., 2005m:37111**
Penskoĭ, A. V. Symmetries and Lagrangian time-discretizations of Euler equations. (English summary) **2005h:37146**
Plyushchaĭ, M. S. Nonlinear supersymmetry: from classical to quantum mechanics. (English summary) **2005g:81117**
Qiao, Yong Fen (*with* Zhao, Shu Hong; Li, Ren Jie) A non-Noether conserved quantity of holonomic mechanical systems in terms of quasi-coordinates—an extension of the Hojman theorem. (Chinese. English and Chinese summaries)

Qin, Mao Chang *see* **Xu, Xue Jun et al.**
Ragnisco, Orlando *see* **Ballesteros, Angel, 2005b:70020**
Ramakrishnan, Narayanan *see* **Sri Namachchivaya, N., 2005b:70029**
Ratiu, Tudor S. *see* **Ortega, Juan-Pablo, 2005a:53144**
Rodrigo, C. *see* **García Pérez, Pedro Luis, 2005m:70065**
Rothe, Heinz J. (*with* Rothe, Klaus D.) Gauge identities and the Dirac conjecture. (English summary) **2005j:70043**
Rothe, Klaus D. *see* **Rothe, Heinz J., 2005j:70043**
Ryabov, P. E. Bifurcations of first integrals in the Sokolov case. (Russian. Russian summary) **2005c:70005**
Sadovskiĭ, D. A. *see* **Efstathiou, K. et al., 2005j:37087**
Salas-Brito, A. L. *see* **Arizmendi, C. M. et al., 2005a:70019**
Shvedov, Oleg Yu. Symmetries in semiclassical mechanics. (English summary) **2005d:81153**
Śniatycki, Jędrzej Orbits of families of vector fields on subcartesian spaces. (English and French summaries) **2005k:53160**
Sophocleous, Christodoulos *see* **Damianou, Pantelis A., 2005i:37065**
Sri Namachchivaya, N. (*with* Ramakrishnan, Narayanan) Stochastic dynamics of parametrically excited two d.o.f. systems with symmetry. (English summary) **2005b:70029**
Szenkovits, Ferenc ★ Metode topologice în mecanica cereascâ. (Romanian) [Topological methods in celestial mechanics] **2005i:70029**
Teğmen, Adnan Momentum map and action-angle variables for Nambu dynamics. (English summary) **2005b:70025**
Ünal, Gazanfer (*with* Khalique, C. M.) Approximate first integrals of the Hénon-Heiles system revisited. (English summary) **2005g:70034**
Wadee, M. Ahmer *see* **Beardmore, R. E. et al., 2005m:37111**
Wulff, Claudia Persistence of Hamiltonian relative periodic orbits. (English summary) **2005c:37099**
Xu, Xue Jun (*with* Mei, Feng Xiang; Qin, Mao Chang) A non-Noether conserved quantity constructed using form invariance for the Nielsen equation of a non-conservative mechanical system. (Chinese. English and Chinese summaries)
— *see also* **Mei, Feng Xiang et al.**
Yamaoka, Hidetaka *see* **Iwai, Toshihiro, 2005e:81076**
Yanguas, Patricia *see* **Gutiérrez-Romero, S. et al., 2005h:70017** *and* **Palacián, Jesús F., 2005i:70013**
Zhang, Hong Bin[1] (*with* Chen, Li Qun; Gù, Shu Long) Lie symmetries and non-Noether conserved quantities of nonholonomic systems. (English summary)
— *see also* **Gu, Shu Long**
Zhang, Jun *see* **Fang, Jian Hui et al., 2005k:70038**
Zhang, Yi[7] (*with* Mei, Feng Xiang) Effects of non-conservative forces and nonholonomic constraints on Noether symmetries of a Lagrangian system. (Chinese. English and Chinese summaries) **2005c:70018**
— (*with* Mei, Feng Xiang) Effects of constraints on Noether symmetries and conserved quantities in a Birkhoffian system. (Chinese. English and Chinese summaries)
— (*with* Fan, Cun Xin; Ge, Wei Kuan) A new type of conserved quantities for Birkhoffian systems. (Chinese. English and Chinese summaries)
— A geometrical approach to Hojman theorem of a rotational relativistic Birkhoffian system. (English summary)
Zhang, Yongfa *see* **Mei, Feng Xiang et al.**
Zhao, Shu Hong *see* **Qiao, Yong Fen et al.**
Zhilinskiĭ, B. I. *see* **Efstathiou, K. et al., 2005j:37087**
Zhuravlëv, V. F. *see* **Klimov, D. M., 2005c:70020**

Items listed otherwise than by author

Progress in Mathematics *see* **Ortega, Juan-Pablo, 2005a:53144**

70H40 Relativistic dynamics

Boyer, Timothy H. Unfamiliar trajectories for a relativistic particle in a Kepler or Coulomb potential. (English summary)
Chen, Li Qun *see* **Fu, Jing-Li, 2005b:70023**
Fang, Jian Hui Mei symmetry and Noether symmetry of the relativistic variable mass system. (English summary) **2005a:70022**
Fu, Jing-Li (*with* Chen, Li Qun) Perturbation of symmetries of rotational relativistic Birkhoffian systems and its inverse problem. (English summary) **2005b:70023**
Matsyuk, R. Ya. Differential geometric mechanisms in Ostrohradskyj relativistic spherical top dynamics. (English, Russian and Ukrainian summaries) **2005g:70035**
Teodorescu, Petre P. (*with* Toma, Ileana) On Voinea's analogy. (English summary) **2005a:70023**
Toma, Ileana *see* **Teodorescu, Petre P., 2005a:70023**
Zhang, Yi[7] A geometrical approach to Hojman theorem of a rotational relativistic Birkhoffian system. (English summary)

Items with secondary classifications in 70H40

Arroyo, Josu (*with* Barros, Manuel; Garay, Oscar J.) Models of relativistic particle with curvature and torsion revisited. (English summary) **2005g:83004**
Baleanu, Dumitru Reparametrization invariance and Hamilton-Jacobi formalism. (English summary) **2005c:70035**
Barrera, L. A. *see* **López Laurrabaquio, G. et al., 2005h:70018**
Barros, Manuel *see* **Arroyo, Josu et al., 2005g:83004**
Baylis, William E. Applications of Clifford algebras in physics. (English summary) (*see* **2005d:15001**)
Burnell, F. (*with* Malecki, Justin John; Mann, Robert B.; Ohta, Tadayuki) Chaos in an exact relativistic three-body self-gravitating system. (English summary) **2005g:83091**
Cardin, Franco (*with* Marigonda, Antonio) Global world functions. (English summary) **2005i:53096**
Chen, Pei Sheng *see* **Fang, Jian Hui et al.**
Costa De Beauregard, O. To believe or not believe in the 4-potential, that's a question. The electric Helmholtz-Mikhailov effect and its magnetic analog. (English summary) **2005m:78004**
Deryabin, Mikhail V. (*with* Pustyl'nikov, L. D.) Exponential attractors in generalized relativistic billiards. (English summary) **2005e:37141**
Fang, Jian Hui (*with* Yan, Xiang-Hong; Li, Hong; Chen, Pei Sheng) Mei symmetry and Lie symmetry of relativistic Hamiltonian system. (English summary)
Garay, Oscar J. *see* **Arroyo, Josu et al., 2005g:83004**
Garibo, Y. *see* **López Laurrabaquio, G. et al., 2005h:70018**
Gràcia, Xavier (*with* Martín, Rubén) Nonholonomic systems and the relativistic particle. (English summary) **2005j:70030**
Gu, Shu Long (*with* Zhang, Hong Bin[1]) Integral invariants of relativistic Birkhoff systems. (Chinese. English and Chinese summaries)
— (*with* Zhang, Hong Bin[1]) Construction of the first integrals and integral invariants of the relativistic Birkhoff system. (Chinese. English and Chinese summaries)
Hernández, H. *see* **López Laurrabaquio, G. et al., 2005h:70018**
Horwitz, L. P. (*with* Katz, Nir A.; Oron, O.) Could the classical relativistic electron be a strange attractor? (English summary) (*see* **2005d:00011**)
Katz, Nir A. *see* **Horwitz, L. P. et al., (2005d:00011)**
Klačka, Jozef Electromagnetic radiation and motion of a particle. (English summary) **2005a:70014**
Klimov, D. M. (*with* Zhuravlëv, V. F.) ★ Group-theoretic methods in mechanics and applied mathematics. **2005c:70020**
Krasyuk, I. I. (*with* Pogorelov, E. N.) Cartesian ovals as phase trajectories of relativistic charged particles. (Russian. Russian summary) **2005a:78008**
Li, Hong *see* **Fang, Jian Hui et al.**
López Laurrabaquio, G. (*with* Barrera, L. A.; Garibo, Y.; Hernández, H.; Salazar, J. C.; Vargas, C. A.) Constants of motion for several one-dimensional systems and problems associated with getting their Hamiltonians. (English summary) **2005h:70018**
Malecki, Justin John *see* **Burnell, F. et al., 2005g:83091**
Mann, Robert B. *see* **Burnell, F. et al., 2005g:83091**
Marigonda, Antonio *see* **Cardin, Franco, 2005i:53096**
Martín, Rubén *see* **Gràcia, Xavier, 2005j:70030**
Ohta, Tadayuki *see* **Burnell, F. et al., 2005g:83091**
Oron, O. *see* **Horwitz, L. P. et al., (2005d:00011)**
Pin, Massimo *see* **Sonego, Sebastiano, 2005m:83010**
Pogorelov, E. N. *see* **Krasyuk, I. I., 2005a:78008**
Portilla B., José Gregorio (*with* Villareal, F.) An addendum to the Damour and Deruelle's solution of the post-Newtonian two-body problem. (English summary) **2005g:83035**
Pustyl'nikov, L. D. *see* **Deryabin, Mikhail V., 2005e:37141**
Rivadulla, Andrés The Newtonian limit of relativity theory and the rationality of theory change. (English summary) **2005h:83002**
Salazar, J. C. *see* **López Laurrabaquio, G. et al., 2005h:70018**
Schwarz, John H. *see* **Schwarz, Patricia M., 2005b:83001**
Schwarz, Patricia M. (*with* Schwarz, John H.) ★ Special relativity. **2005b:83001**
Sonego, Sebastiano (*with* Pin, Massimo) Deriving relativistic momentum and energy (English summary) **2005m:83010**
Timoumi, Mohsen Multiple closed trajectories of a relativistic particle. (English summary) **2005f:37133**
Vargas, C. A. *see* **López Laurrabaquio, G. et al., 2005h:70018**
Villareal, F. *see* **Portilla B., José Gregorio, 2005g:83035**
Yamaleev, Robert M. Extended relativistic dynamics of charged spinning particle in quaternionic formulation. (English summary) **2005h:83011**
— Extended relativistic dynamics with n-degree characteristic polynomial. (English summary)
Yan, Xiang-Hong *see* **Fang, Jian Hui et al.**
Zhang, Hong Bin[1] *see* **Gu, Shu Long**
Zhang, Jun *see* **Zhang, Li Hong**
Zhang, Li Hong (*with* Zhang, Jun) Mei symmetry and conserved quantity of relativistic Hamiltonian systems. (Chinese. English and Chinese summaries)
Zhuravlëv, V. F. *see* **Klimov, D. M., 2005c:70020**

70H45 Constrained dynamics, Dirac's theory of constraints [see also 70F20, 70F25, 70Gxx]

Baleanu, Dumitru (*with* Güler, Yurdahan) Hamilton-Jacobi and symplectic analysis of a particle constrained on a circle. (English summary) **2005f:70028**
— (*with* Güler, Yurdahan) Chain and Hamilton-Jacobi approaches for systems with purely second-class constraints. (English summary) **2005a:70024**
— *see also* **Muslih, Sami I., 2005j:70042**
Castellani, Elena Dirac on gauges and constraints. (English summary) **2005i:70047**
Deng, Zi Chen *see* **Zhang, Su Ying, 2005a:70026**
Di Bartolo, Cayetano (*with* Gambini, Rodolfo; Porto, Rafael A.; Pullin, Jorge) Dirac-type approach for consistent discretizations of classical constrained theories. (English summary) **2005i:70048**
El-Zalan, Hosam A. *see* **Muslih, Sami I., 2005b:70024**
Gambini, Rodolfo *see* **Di Bartolo, Cayetano et al., 2005i:70048**
Ghassib, Humam B. *see* **Nawafleh, Khaled I. et al., 2005a:70025**
Gràcia, Xavier (*with* Martín, Rubén) Time-dependent singular systems. (English summary) **2005j:70041**
Güler, Yurdahan Geometrical interpretation of constrained systems. (English summary)
— *see also* **Baleanu, Dumitru, 2005a:70024** *and* **2005f:70028**
Martín, Rubén *see* **Gràcia, Xavier, 2005j:70041**
Muslih, Sami I. (*with* El-Zalan, Hosam A.) On the Hamilton-Jacobi treatment of constrained systems. (English summary) **2005b:70024**
— Integrability and action function in multi-Hamiltonian systems. (English summary) **2005c:70024**
— (*with* Baleanu, Dumitru) Hamiltonian formulation of systems with linear velocities within Riemann-Liouville fractional derivatives. (English summary) **2005j:70042**
Nawafleh, Khaled I. (*with* Rabei, Eqab M.; Ghassib, Humam B.) Hamilton-Jacobi treatment of constrained systems. (English summary) **2005a:70025**
Porto, Rafael A. *see* **Di Bartolo, Cayetano et al., 2005i:70048**

Pullin, Jorge *see* **Di Bartolo, Cayetano et al., 2005i:70048**
Rabei, Eqab M. *see* **Nawafleh, Khaled I. et al., 2005a:70025**
Rothe, Heinz J. Dirac's constrained Hamiltonian dynamics from an unconstrained dynamics. (English summary) **2005i:70049**
— (*with* Rothe, Klaus D.) Gauge identities and the Dirac conjecture. (English summary) **2005j:70043**
Rothe, Klaus D. *see* **Rothe, Heinz J., 2005j:70043**
Tarasov, V. E. Stationary solutions of Liouville equations for non-Hamiltonian systems. (English summary) **2005j:70044**
Udwadia, Firdaus E. On constrained motion. (English summary) **2005m:70071**
Zhang, Su Ying (*with* Deng, Zi Chen) Lie group integration for constrained generalized Hamiltonian system with dissipation by projection method. (Chinese. English and Chinese summaries) **2005a:70026**

Items with secondary classifications in 70H45

Błaszak, Maciej *see* **Marciniak, Krzysztof, 2005b:37114**
Bojowald, Martin (*with* Strobl, Thomas) Poisson geometry in constrained systems. (English summary) **2005b:53129**
Chen, Thomas Critical manifolds and stability in Hamiltonian systems with non-holonomic constraints. (English summary) **2005d:37135**
Coroian, Dan I. Improved outer inverses for the numerical solution of Euler-Lagrange equations. (English summary) **2005k:65156**
Ghassib, Humam B. *see* **Rabei, Eqab M. et al., 2005e:81068**
Gràcia, Xavier (*with* Martín, Rubén) Regularity and symmetries of nonholonomic systems. (English summary) **2005m:70066**
Hartmann, Carsten (*with* Schütte, Christof) A geometric approach to constrained molecular dynamics and free energy. (English summary) **2005k:70036**
Kobayashi, Marcelo H. *see* **Terra, Gláucio, 2005d:37138** *and* **2005e:70021**
Louko, Jorma (*with* Molgado, Alberto) Group averaging in the (p, q) oscillator representation of $SL(2, \mathbb{R})$. (English summary) **2005c:81111**
Marciniak, Krzysztof (*with* Błaszak, Maciej) Dirac reduction revisited. (English summary) **2005b:37114**
Martín, Rubén *see* **Gràcia, Xavier, 2005m:70066**
Molgado, Alberto *see* **Louko, Jorma, 2005c:81111**
Mukharlyamov, R. G. On the construction of systems of differential equations of motion of constrained mechanical systems. (Russian. Russian summary) **2005m:70068**
Muslih, Sami I. Hamilton-Jacobi quantization of constrained systems with second-order Lagrangians. (English summary) **2005c:81122**
Nawafleh, Khaled I. *see* **Rabei, Eqab M. et al., 2005e:81068**
Pitanga, Paulo (*with* Rodrigues, Paulo R.) Projection methods for some constrained systems. (English summary) **2005a:37107**
Pons, Josep M. (*with* Talavera, Pere) Truncations driven by constraints: consistency and conditions for correct upliftings. (English summary) **2005m:70094**
Rabei, Eqab M. (*with* Nawafleh, Khaled I.; Ghassib, Humam B.) The motion of a spinning particle in an external electromagnetic field as a constrained system. (English summary) **2005e:81068**
Rodrigues, Paulo R. *see* **Pitanga, Paulo, 2005a:37107**
Schütte, Christof *see* **Hartmann, Carsten, 2005k:70036**
Sergi, Alessandro Generalized bracket formulation of constrained dynamics in phase space. (English summary) **2005e:82063**
Serrani, Andrea *see* **Tarn, Tzyh-Jong et al., 2005d:70006**
Strobl, Thomas *see* **Bojowald, Martin, 2005b:53129**
Talavera, Pere *see* **Pons, Josep M., 2005m:70094**
Tarn, Tzyh-Jong (*with* Zhang, Ming Jun[2]; Serrani, Andrea) New integrability conditions for classifying holonomic and nonholonomic systems. (English summary) **2005d:70006**
Terra, Gláucio (*with* Kobayashi, Marcelo H.) On classical mechanical systems with non-linear constraints. (English summary) **2005e:70021**
— (*with* Kobayashi, Marcelo H.) On the variational mechanics with non-linear constraints. (English and French summaries) **2005d:37138**
Yoshimura, Hiroaki Duality and complementarity in constrained mechanical systems. (English summary) **2005i:70024**
Zhang, Ming Jun[2] *see* **Tarn, Tzyh-Jong et al., 2005d:70006**

70H50 Higher-order theories

Ahmed, N. U. Stability of torsional and vertical motion of suspension bridges subject to stochastic wind forces. (English summary) **2005c:70025**
Hu, Li Yun *see* **Ma, Shan Jun et al.**
Huang, Pei Tian *see* **Ma, Shan Jun et al.**
Ma, Shan Jun (*with* Xu, Xue Xiang; Huang, Pei Tian; Hu, Li Yun) Discussion on a Lagrange equation containing third-order derivatives. (Chinese. English and Chinese summaries)
Xu, Xue Xiang *see* **Ma, Shan Jun et al.**

Items with secondary classifications in 70H50

Alonso, Ricardo J. (*with* Vinogradov, A. M.) Green formula and Legendre transformation. (English summary) **2005c:58033**
Smol′yakov, È. R. Nonlinear laws of motion and a justification of the motion of inertioids. (Russian)
Vinogradov, A. M. *see* **Alonso, Ricardo J., 2005c:58033**

70H99 None of the above, but in this section

Djemaï, A. E. F. Noncommutative classical mechanics. (English summary) **2005f:70029**
Fan, Cun Xin *see* **Zhang, Yi[7] et al.**
Ge, Wei Kuan *see* **Zhang, Yi[7] et al.**
Gołubowska, Barbara Action-angle analysis of some geometric models of internal degrees of freedom. (English summary) **2005i:70050**
Gu, Shu Long (*with* Zhang, Hong Bin[1]) Construction of the first integrals and integral invariants of the relativistic Birkhoff system. (Chinese. English and Chinese summaries)
Il′inskiĭ, K. N. *see* **Zherebtsov, Anton, 2005h:70021**
Kozlov, Valeriĭ V. Dynamics of variable systems, and Lie groups. (Russian. Russian summary) **2005j:70045**
Mei, Feng Xiang *see* **Zhang, Yi[7]**
Salesi, Giovanni Nonrelativistic classical mechanics for spinning particles. (English summary) **2005k:70043**
Sławianowski, Jan J. Geodetic systems on linear and affine groups. Classics and quantization. (English summary) **2005i:70051**
Tarasov, V. E. Phase-space metric for non-Hamiltonian systems. (English summary) **2005m:70072**
Teğmen, Adnan Momentum map and action-angle variables for Nambu dynamics. (English summary) **2005b:70025**
Udwadia, Firdaus E. On a general principle of mechanics and its application to general non-ideal nonholonomic constraints. (English summary) **2005e:70027**
Zhang, Hong Bin[1] *see* **Gu, Shu Long**
Zhang, Yi[7] (*with* Mei, Feng Xiang) Effects of constraints on Noether symmetries and conserved quantities in a Birkhoffian system. (Chinese. English and Chinese summaries)
— (*with* Fan, Cun Xin; Ge, Wei Kuan) A new type of conserved quantities for Birkhoffian systems. (Chinese. English and Chinese summaries)
— Geometric foundations of the Hojman theorem for Birkhoffian systems. (Chinese. English and Chinese summaries)
Zherebtsov, Anton (*with* Il′inskiĭ, K. N.) New application of functional integrals to classical mechanics. (English summary) **2005h:70021**

Items with secondary classifications in 70H99

Azevedo, Julio C. S. *see* **Segatto, Breno R. et al., 2005b:81049a**
Brodlie, Alastair (*with* Kisil, Vladimir V.) Observables and states in p-mechanics. (English summary) **2005k:81006**
Chruściński, Dariusz (*with* Jamiołkowski, Andrzej) ★ Geometric phases in classical and quantum mechanics. **2005g:81125**
Deryabin, Mikhail V. (*with* Pustyl′nikov, L. D.) Exponential attractors in generalized relativistic billiards. (English summary) **2005e:37141**
Ezra, Gregory S. Geometric approach to response theory in non-Hamiltonian systems. (English summary) **2005m:82084**
Gal′perin, G. A. Billiard balls count π. **2005i:70026**
Jamiołkowski, Andrzej *see* **Chruściński, Dariusz, 2005g:81125**
Kisil, Vladimir V. *see* **Brodlie, Alastair, 2005k:81006**
Kovalchuk, Vasyl *see* **Sławianowski, Jan J., 2005m:81192**
Muslih, Sami I. Path integral quantization of mechanical systems within Riemann-Liouville fractional calculus. (English summary) **2005g:81176**
Nonnenmacher, Stéphane Spectral properties of noisy classical and quantum propagators. (English summary) **2005h:81138**
Pustyl′nikov, L. D. *see* **Deryabin, Mikhail V., 2005e:37141**
Segatto, Breno R. (*with* Azevedo, Julio C. S.; de Souza, Manoelito M.) Harmonic potential as an effective limit of a discrete classical interaction. (English summary) **2005b:81049a**
Sławianowski, Jan J. (*with* Kovalchuk, Vasyl) Classical and quantized affine physics: a step towards it. (English summary) **2005m:81192**
de Souza, Manoelito M. *see* **Segatto, Breno R. et al., 2005b:81049a**
Tarasov, V. E. Fractional systems and fractional Bogoliubov hierarchy equations. (English summary) **2005m:82088**
Voronov, Theodore An alternative form of the Helmholtz criterion in the inverse problem of calculus of variations. (English summary) **2005e:37145**

70Jxx Linear vibration theory

70J10 Modal analysis

Eskinat, Esref *see* **Orbak, Âli Yurdun et al., 2005g:70037**
Kaveh, A. (*with* Sayarinejad, M. A.) Graph symmetry and dynamic systems. (English summary) **2005g:70036**
Kempfle, Siegmar *see* **Schäfer, Ingo**
Kozlov, Valeriĭ V. The spectrum of a Hamiltonian system and the symplectic geometry of the complex Artin space. (Russian) **2005e:70028**
Maĭlybaev, A. A. (*with* Seĭranyan, A. P.) Interaction of eigenvalues when the parameters change. (Russian) **2005h:70022**
Orbak, Âli Yurdun (*with* Eskinat, Esref; Turkay, Osman S.) Physical parameter sensitivity of system eigenvalues and physical model reduction. (English summary) **2005g:70037**
Qiu, Zhi Ping[1] (*with* Wang, Xiaojun[2]) Solution theorems for the standard eigenvalue problem of structures with uncertain-but-bounded parameters. (English summary) **2005m:70073**
Sayarinejad, M. A. *see* **Kaveh, A., 2005g:70036**
Schäfer, Ingo (*with* Kempfle, Siegmar) Impulse responses of fractional damped systems. (English summary)
Seĭranyan, A. P. *see* **Maĭlybaev, A. A., 2005h:70022**
Truhar, Ninoslav (*with* Veselić, Krešimir) On some properties of the Lyapunov equation for damped systems. (English summary) **2005i:70052**
Turkay, Osman S. *see* **Orbak, Âli Yurdun et al., 2005g:70037**
Veselić, Krešimir *see* **Truhar, Ninoslav, 2005i:70052**
Wang, Xiaojun[2] *see* **Qiu, Zhi Ping[1], 2005m:70073**

Items with secondary classifications in 70J10

Chu, Moody T. (*with* Golub, Gene H.) Structured inverse eigenvalue problems. (English summary) **2005b:65040**
Dragović, Vladimir (*with* Radnović, Milena) Cayley-type conditions for billiards within k quadrics in $\mathbb{R}^d$. (English summary) **2005f:37123**
Golub, Gene H. *see* **Chu, Moody T., 2005b:65040**
van Horssen, Wim T. *see* **Zarubinskaya, M. A., 2005m:74044**

Radnović, Milena *see* **Dragović, Vladimir**, 2005f:37123
Srivastava, R. K. (*with* Srivastava, Rajeev) Eigen parameter perturbation and application to linear dynamic system modifications. (English summary) **2005d:93065**
Srivastava, Rajeev *see* **Srivastava, R. K.**, 2005d:93065
Zarubinskaya, M. A. (*with* van Horssen, Wim T.) On the vibrations of a simply supported square plate on a weakly nonlinear elastic foundation. (English summary) **2005m:74044**

70J25 Stability

Gladwell, Graham M. L. (*with* Khonsari, M. M.; Ram, Y. M.) Stability boundaries of a conservative gyroscopic system. (English summary) **2005e:70029**
Khonsari, M. M. *see* **Gladwell, Graham M. L. et al.**, 2005e:70029
Kirillov, Oleg N. Destabilization paradox. (Russian) **2005m:70074**
— (*with* Seĭranyan, A. P.) Stabilization and destabilization of a circulatory system by small velocity-dependent forces. (English summary)
— *see also* **Seĭranyan, A. P.**, 2005e:70030
Kliem, Wolfhard (*with* Seĭranyan, A. P.) The Metelitsyn inequality and criteria for the stability of mechanical systems. (Russian. Russian summary) **2005a:70027**
Maĭlybaev, A. A. *see* **Seĭranyan, A. P.**, 2005d:70011
Ram, Y. M. *see* **Gladwell, Graham M. L. et al.**, 2005e:70029
Seĭranyan, A. P. (*with* Maĭlybaev, A. A.) ★ Multiparameter stability theory with mechanical applications. **2005d:70011**
— (*with* Kirillov, Oleg N.) The influence of small dissipative and gyroscopic forces on the stability of nonconservative systems. (Russian) **2005e:70030**
— The problem of the swing. (Russian) **2005g:70038**
— A swing. Parametric resonance. (Russian. Russian summary) **2005i:70053**
— *see also* **Kliem, Wolfhard**, **2005a:70027** *and* **Kirillov, Oleg N.**

Items with secondary classifications in 70J25

Ilyasova, Nigar M. Parametric vibrations and resonance. (English summary) **2005k:34183**
Ivanov, Aleksandr P. On the stability of mechanical systems with positional nonconservative forces. (Russian. Russian summary) **2005e:70031**
Iwankiewicz, R. (*with* Nielsen, S. R. K.; Larsen, J. W.) Stochastic stability of mechanical systems under renewal jump process parametric excitation. (English summary) **2005k:70048**
Kozlov, Valeriĭ V. Linear systems with a quadratic integral and the symplectic geometry of Artin spaces. (Russian. Russian summary) **2005e:37114**
Larsen, J. W. *see* **Iwankiewicz, R. et al.**, 2005k:70048
Nielsen, S. R. K. *see* **Iwankiewicz, R. et al.**, 2005k:70048

70J30 Free motions

Bulatovic, R. M. On the heavily damped response in viscously damped dynamic systems. (English summary) **2005j:70046**

70J40 Parametric resonances

Items with secondary classifications in 70J40

Champneys, Alan R. (*with* Fraser, Wynstone Barrie) Resonance tongue interaction in the parametrically excited column. (English summary) **2005h:74026**
Fraser, Wynstone Barrie *see* **Champneys, Alan R.**, 2005h:74026
Seĭranyan, A. P. The problem of the swing. (Russian) **2005g:70038**
— A swing. Parametric resonance. (Russian. Russian summary) **2005i:70053**

70J50 Systems arising from the discretization of structural vibration problems

Friswell, Michael I. *see* **Qiu, Zhi Ping[1] et al.**, 2005j:70047
Qiu, Zhi Ping[1] (*with* Wang, Xiaojun[2]; Friswell, Michael I.) Eigenvalue bounds of structures with uncertain-but-bounded parameters. (English summary) **2005j:70047**
Wang, Xiaojun[2] *see* **Qiu, Zhi Ping[1] et al.**, 2005j:70047

70J99 None of the above, but in this section

Bobrovnitskiĭ, Yu. I. Conservation laws in oscillation theory. (Russian) **2005k:70044**
Chee, S. C. (*with* Maassen van den Brink, Alec; Young, Kenneth) Hamiltonian and linear-space structure for damped oscillators. I. General theory. (English summary) **2005f:70030**
— (*with* Maassen van den Brink, Alec; Young, Kenneth) Hamiltonian and linear-space structure for damped oscillators. II. Critical points. (English summary) **2005f:70031**
Friswell, Michael I. (*with* Prells, Uwe; Garvey, Seamus D.) Low-rank damping modifications and defective systems. (English summary) **2005h:70023**
Garvey, Seamus D. *see* **Friswell, Michael I. et al.**, 2005h:70023
Maassen van den Brink, Alec *see* **Chee, S. C. et al.**, **2005f:70030** *and* 2005f:70031
Prells, Uwe *see* **Friswell, Michael I. et al.**, 2005h:70023
Qiu, Zhi Ping[1] (*with* Wang, Xiaojun[2]) Several solution methods for the generalized complex eigenvalue problem with bounded uncertainties. (English summary) **2005i:70054**
Rixen, Daniel J. A dual Craig-Bampton method for dynamic substructuring. (English summary)
Wang, Xiaojun[2] *see* **Qiu, Zhi Ping[1]**, 2005i:70054
Young, Kenneth *see* **Chee, S. C. et al.**, **2005f:70030** *and* 2005f:70031

Items with secondary classifications in 70J99

Chen, Su Huan (*with* Guo, K. J.; Chen, Yu Dong) A method for estimating upper and lower bounds of eigenvalues of closed-loop systems with uncertain parameters. (English summary)
Chen, Yu Dong *see* **Chen, Su Huan et al.**
Frommer, Andreas *see* **Qiu, Zhi Ping[1] et al.**, 2005e:93088
Gladwell, Graham M. L. ★ Inverse problems in vibration. **2005g:74059**
Guo, K. J. *see* **Chen, Su Huan et al.**
Kaveh, A. (*with* Salimbahrami, B.) Eigensolution of symmetric frames using graph factorization. (English summary)
Mendès France, Michel (*with* Sebbar, Ahmed) Infinite chains of springs and masses. **2005g:70029**
Müller, Peter C. *see* **Qiu, Zhi Ping[1] et al.**, 2005e:93088
Qiu, Zhi Ping[1] (*with* Müller, Peter C.; Frommer, Andreas) The new nonprobabilistic criterion of failure for dynamical systems based on convex models. (English summary) **2005e:93088**
Salimbahrami, B. *see* **Kaveh, A.**
Sebbar, Ahmed *see* **Mendès France, Michel**, 2005g:70029

70Kxx Nonlinear dynamics [see also 34Cxx, 37–XX]

70K05 Phase plane analysis, limit cycles

Balthazar, José Manoel *see* **Belato, Débora et al.**, (2005b:93006)
Belato, Débora (*with* Weber, Hans Ingo; Balthazar, José Manoel) A preliminary analysis of the phase portrait's structure of a nonlinear pendulum-mechanical system using the perturbed Hamiltonian formulation. (English summary) (*see* **2005b:93006**)
Oyedeji, Kale An analysis of a nonlinear elastic force van der Pol oscillator equation.
Weber, Hans Ingo *see* **Belato, Débora et al.**, (2005b:93006)

Items with secondary classifications in 70K05

Knežević-Miljanović, Julka (*with* Lalović, Ljubica) Investigation of stability on nonlinear oscillations with one degree of freedom. (English summary)
Lalović, Ljubica *see* **Knežević-Miljanović, Julka**
Okazaki, Takanobu Large time behaviour of solutions of nonlinear ordinary differential systems with hysteresis effect. (English summary) **2005c:34094**
Shamolin, M. V. Classes of variable dissipation systems with nonzero mean in the dynamics of a rigid body. **2005j:70014**

70K20 Stability

Andreev, Aleksandr Sergeevich (*with* Boĭkova, T. A.) On the stability of the unsteady motion of a mechanical system. (Russian. Russian summary) **2005j:70048**
Birtea, Petre (*with* Dobre, Liliana; Puta, Mircea) Some remarks on a theorem of Leonard and Marsden. (English summary) **2005j:70049**
Blekhman, I. I. (*with* Yaroshevich, N. P.) On the extension of the domain of applicability of the integral criterion (the extremal property) for stability in synchronization problems. (Russian. Russian summary) **2005k:70045**
Boĭkova, T. A. *see* **Andreev, Aleksandr Sergeevich**, **2005j:70048**
Burov, A. A. On necessary conditions for the stability of steady motions of systems with constraints realized by large potential forces. (Russian. Russian summary) 2005i:70055
Chatterjee, Anindya *see* **Wahi, Pankaj**
Čović, V. M. (*with* Vesković, M. M.) Hagedorn's theorem in some special cases of rheonomic systems. (English summary) **2005k:70046**
Dobre, Liliana *see* **Birtea, Petre et al.**, **2005j:70049**
Ivanov, Aleksandr P. On the stability of mechanical systems with positional nonconservative forces. (Russian. Russian summary) **2005e:70031**
Kengne, Emmanuel On stability of a nonlinear pendulum. (English and Ukrainian summaries) **2005e:70032**
Liu, Jiaqi *see* **Wang, Hongbin**
Olson, B. J. (*with* Shaw, S. W.; Stépán, Gábor) Stability and bifurcation of longitudinal vehicle braking. (English summary)
Puta, Mircea *see* **Birtea, Petre et al.**, **2005j:70049**
Puzyrëv, V. E. Stability of the relative equilibrium position of a two-link mathematical pendulum of variable length. (Russian. Russian summary)
— On the stability of the steady motions of mechanical systems with partial energy dissipation. (Russian. Russian summary) **2005m:70075**
— The influence of viscous friction forces on the stability of the steady motions of mechanical systems under partial energy dissipation. (Russian. English summary) **2005j:70050**
Shaw, S. W. *see* **Olson, B. J. et al.**
Stépán, Gábor *see* **Olson, B. J. et al.**
Vesković, M. M. *see* **Čović, V. M.**, **2005k:70046**
Wahi, Pankaj (*with* Chatterjee, Anindya) Regenerative tool chatter near a codimension 2 Hopf point using multiple scales. (English summary)
Wang, Hongbin (*with* Liu, Jiaqi) Stability and bifurcation analysis in a magnetic bearing system with time delays. (English summary)
Yaroshevich, N. P. *see* **Blekhman, I. I.**, **2005k:70045**

Items with secondary classifications in 70K20

Agafonov, S. A. (*with* Georgievskiĭ, D. V.) Dynamic stability of a rod with nonlinear internal viscosity under follower loading. (Russian)
Andrade, Manuel (*with* Docobo, J. A.) Stability in triple star systems with mass loss. (Spanish. Spanish summary) **2005h:70011**
Andrés, Y. N. (*with* Pelaez, Jesus) Stability of electrodynamic tethers in inclincd elliptical orbit. (Spanish. Spanish summary) **2005g:70045**
Avramov, K. V. Bifurcations of almost periodically excited frictional oscillations. (Russian. English summary) **2005m:70076**
Balthazar, José Manoel *see* **Horta Dantas, Márcio José**, **2005a:70029**
Bardin, B. S. On orbital stability of planar motions of symmetric satellites in cases of first and second order resonances. (English summary) **2005g:70046**
Baxendale, Peter H. Lyapunov exponents and stability for the stochastic Duffing-van der Pol oscillator. (English summary) **2005a:34081**
Bloch, Anthony M. *see* **Hagerty, Patrick et al.**, **2005k:37125**
Brogliato, Bernard Absolute stability and the Lagrange-Dirichlet theorem with monotone multivalued mappings. (English summary) **2005i:93064**

Camacho, Erika (*with* Rand, Richard H.; Howland, Howard) Dynamics of two van der Pol oscillators coupled via a bath. (English summary) **2005a:34051**
Campbell, Sue Ann *see* **Stone, Emily F., 2005g:34201**
Canudas de Wit, Carlos *see* **Perram, John W. et al., 2005c:70017**
Cao, Deng Qing (*with* Ge, Yumei; Yang, Y. R.) Stability criteria for nonclassically damped systems with nonlinear uncertainties. (English summary) **2005f:93145**
Chaĭkin, S. V. Stability of a family of nontrivial equilibrium orientations to the attracting center of a gyrostat with an elastic rod. (Russian. Russian summary) **2005k:70049**
Derendyaev, N. V. (*with* Soldatov, I. N.) Stability of the steady motions of a rotor system with fluid in the framework of a discrete model. (Russian. Russian summary)
Docobo, J. A. *see* **Andrade, Manuel, 2005h:70011**
Druzhinina, O. V. (*with* Shestakov, A. A.) Conditions for stability in the sense of Zhukovskiĭ of trajectories of dynamical systems. (Russian) **2005d:34104**
— On the Lyapunov stability and Zhukovskiĭ stability of trajectories of conservative mechanical systems. (Russian) **2005k:34191**
Egeland, Olav *see* **Shiryaev, A. S. et al., 2005m:93132**
Gabern, Frederic (*with* Jorba, Àngel; Locatelli, Ugo) On the construction of the Kolmogorov normal form for the Trojan asteroids. (English summary) **2005m:70057**
Ge, Yumei *see* **Cao, Deng Qing et al., 2005f:93145**
Georgievskiĭ, D. V. *see* **Agafonov, S. A.**
Grebenikov, E. A. (*with* Zemtsova, N. I.; Ikhsanov, E. V.) Theorems on the stability of stationary solutions of the restricted ten-body problem for the third-order resonance case. (Russian. Russian summary) **2005k:70031**
Grognard, Frédéric *see* **Perram, John W. et al., 2005c:70017**
Hagerty, Patrick (*with* Bloch, Anthony M.; Weinstein, Michael I.) Radiation induced instability. (English summary) **2005k:37125**
Horta Dantas, Márcio José (*with* Balthazar, José Manoel) On local analysis of oscillations of a non-ideal and non-linear mechanical model. (English summary) **2005a:70029**
Howland, Howard *see* **Camacho, Erika et al., 2005a:34051**
Huang, Lin[1] *see* **Li, Xin Bin, 2005f:34136**
Ignatyev, Oleksiy Alexandrovich Asymptotic stability of the relative equilibrium position of a system of bodies modeling rotary blades. (Russian. Russian summary)
Ikhsanov, E. V. *see* **Grebenikov, E. A. et al., 2005k:70031**
Jézéquel, L. *see* **Sinou, J.-J. et al., 2005g:70003**
Jorba, Àngel *see* **Gabern, Frederic et al., 2005m:70057**
Kalenova, V. I. (*with* Morozov, V. M.) On the stability of steady motions of nonholonomic mechanical systems with cyclic coordinates. (Russian. Russian summary) **2005a:70016**
— (*with* Morozov, V. M.; Salmina, M. A.) On the stability and stabilization of the steady motions of nonholonomic mechanical systems of a certain class. (Russian. Russian summary) **2005j:70031**
Karapetyan, A. V. (*with* Samsonov, V. A.; Sumin, T. S.) On the stability and branching of permanent rotations of a rigid body with a liquid filling. (Russian. Russian summary) **2005i:70006**
Kholostova, O. V. Periodic motions of a nearly dynamically symmetric satellite in a neighborhood of a conical precession. (Russian. Russian summary) **2005e:70037**
Kononov, Yu. N. On the oscillations of a physical pendulum containing a two-layer fluid separated by an elastic membrane. (Russian. Russian summary) **2005m:74029**
Krut'ko, P. D. Algorithms for intensive energy damping in problems of the control of oscillations. (Russian. Russian summary) **2005a:93120**
Leonov, G. A. Criteria for instability in the first approximation for nonstationary linearizations. (Russian. Russian summary) **2005m:34115**
Li, Xin Bin (*with* Huang, Lin[1]) Lagrange stability analysis and synthesis for uncertain pendulum-like systems. (English summary) **2005f:34136**
Locatelli, Ugo *see* **Gabern, Frederic et al., 2005m:70057**
Ludvigsen, H. *see* **Shiryaev, A. S. et al., 2005m:93132**
Martins, Rogério The effect of inversely unstable solutions on the attractor of the forced pendulum equation with friction. (English summary) **2005m:34090**
Moroşanu, Gheorghe (*with* Vladimirescu, Cristian) Stability for a damped nonlinear oscillator. (English summary) **2005k:34199**
Morozov, V. M. *see* **Kalenova, V. I. et al., 2005a:70016** *and* **2005j:70031**
Muñoz-Lecanda, Miguel C. (*with* Yániz-Fernández, F. Javier) A global study of the stability of nonholonomic dissipative systems. (English summary) **2005e:70020**
Pelaez, Jesus *see* **Andrés, Y. N., 2005g:70045**
Perram, John W. (*with* Shiryaev, A. S.; Canudas de Wit, Carlos; Grognard, Frédéric) Explicit formula for a general integral of motion for a class of mechanical systems subject to holonomic constraint. (English summary) **2005c:70017**
Pozdnyakovich, A. E. (*with* Savchenko, A. Ya.) Passive stabilization of small oscillations of a physical pendulum with respect to an inclined axis. (Russian. Russian summary)
Quadrelli, Marco B. Effect of distributed rod and string flexibility on formation dynamic stability. (English summary) **2005c:70031**
Rand, Richard H. *see* **Camacho, Erika et al., 2005a:34051**
Salmina, M. A. *see* **Kalenova, V. I. et al., 2005j:70031**
Samsonov, V. A. (*with* Sumin, T. S.) On the stability of the equilibrium position of a mechanical system with two degrees of freedom. (Russian. Russian summary)
— *see also* **Karapetyan, A. V. et al., 2005i:70006**
Savchenko, A. Ya. *see* **Pozdnyakovich, A. E.**
Seĭranyan, A. P. The problem of the swing. (Russian) **2005g:70038**
— A swing. Parametric resonance. (Russian. Russian summary) **2005i:70053**
Shestakov, A. A. *see* **Druzhinina, O. V., 2005d:34104**
Shiryaev, A. S. (*with* Ludvigsen, H.; Egeland, Olav) Swinging up the spherical pendulum via stabilization of its first integrals. (English summary) **2005m:93132**
— *see also* **Perram, John W. et al., 2005c:70017**
Sinou, J.-J. (*with* Thouverez, F.; Jézéquel, L.) Methods to reduce non-linear mechanical systems for instability computation. (English summary) **2005g:70003**
Soldatov, I. N. *see* **Derendyaev, N. V.**
Steindl, A. (*with* Troger, H.) Is the sky-hook configuration stable? (English summary) **2005m:70086**
Stone, Emily F. (*with* Campbell, Sue Ann) Stability and bifurcation analysis of a nonlinear DDE model for drilling. (English summary) **2005g:34201**
Sumin, T. S. *see* **Karapetyan, A. V. et al., 2005i:70006** *and* **Samsonov, V. A.**
Thouverez, F. *see* **Sinou, J.-J. et al., 2005g:70003**
Troger, H. *see* **Steindl, A., 2005m:70086**
Vladimirescu, Cristian *see* **Moroşanu, Gheorghe, 2005k:34199**
Vujičić, V. A. A non-standard approach to the study of the dynamic system stability. **2005b:34105**
Weinstein, Michael I. *see* **Hagerty, Patrick et al., 2005k:37125**
Yang, Y. R. *see* **Cao, Deng Qing et al., 2005f:93145**
Yániz-Fernández, F. Javier *see* **Muñoz-Lecanda, Miguel C., 2005e:70020**
Zemtsova, N. I. *see* **Grebenikov, E. A. et al., 2005k:70031**

70K25 Free motions

Items with secondary classifications in 70K25

Cveticanin, L. Free vibration of a strong non-linear system described with complex functions. (English summary) **2005g:34225**
Das, S. N. (*with* Das, Samir K.) Determination of coupled sway, roll, and yaw motions of a floating body in regular waves. (English summary) **2005f:34107**
Das, Samir K. *see* **Das, S. N., 2005f:34107**

70K28 Parametric resonances

Abadi *see* **Verhulst, F., 2005i:70057**
El-Bassiouny, A. F. Principal parametric resonances of non-linear mechanical system with two-frequency and self-excitations. (English summary) **2005i:70056**
Verhulst, F. (*with* Abadi) Autoparametric resonance of relaxation oscillations. (English summary) **2005i:70057**

Items with secondary classifications in 70K28

Abdelhafez, H. M. Resonance of a nonlinear forced system with two-frequency parametric and self-excitations. (English summary) **2005b:34110**
Hansen, Colin H. *see* **Ji, J. C.**
Ji, J. C. (*with* Hansen, Colin H.) On the approximate solution of a piecewise nonlinear oscillator under super-harmonic resonance. (English summary)
Kovaleva, A. S. Frequency and phase control of the resonance oscillations of a nonlinear system under uncertainty conditions. (Russian. Russian summary) **2005h:70031**
Morrison, Tina *see* **Rand, Richard H., 2005m:34119**
Rand, Richard H. (*with* Morrison, Tina) 2 : 1 : 1 resonance in the quasi-periodic Mathieu equation. (English summary) **2005m:34119**
Seĭranyan, A. P. The problem of the swing. (Russian) **2005g:70038**
— A swing. Parametric resonance. (Russian. Russian summary) **2005i:70053**
So, Ronald M. C. *see* **Xie, Wei-Chau**
Wang, Feng-Xia *see* **Zhang, Wei[10] et al., 2005k:74052**
Xie, Wei-Chau (*with* So, Ronald M. C.) Parametric resonance of a two-dimensional system under bounded noise excitation. (English summary)
Yao, Ming-hui *see* **Zhang, Wei[10] et al., 2005k:74052**
Zhang, Wei[10] (*with* Wang, Feng-Xia; Yao, Ming-hui) Global bifurcations and chaotic dynamics in nonlinear nonplanar oscillations of a parametrically excited cantilever beam. (English summary) **2005k:74052**

70K30 Nonlinear resonances

Gendelman, Oleg V. (*with* Lamarque, Claude-Henri) Dynamics of linear oscillator coupled to strongly nonlinear attachment with multiple states of equilibrium. (English summary) **2005j:70051**
Lamarque, Claude-Henri *see* **Gendelman, Oleg V., 2005j:70051**

Items with secondary classifications in 70K30

Benguria, Rafael D. (*with* Depassier, M. Cristina) Variational calculation of the period of nonlinear oscillators. (English summary) **2005d:34035**
Cushman, Richard *see* **Dullin, Holger R. et al., 2005j:70039**
Depassier, M. Cristina *see* **Benguria, Rafael D., 2005d:34035**
Dullin, Holger R. (*with* Giacobbe, Andrea; Cushman, Richard) Monodromy in the resonant swing spring. (English summary) **2005j:70039**
Giacobbe, Andrea *see* **Dullin, Holger R. et al., 2005j:70039**
Grebenikov, E. A. (*with* Mitropol'skiĭ, Yuriĭ Alekseevich; Ryabov, Yu. A.) ★Asymptotic methods in resonance analytical dynamics. **2005d:34099**
Marco, Jean-Pierre (*with* Sauzin, David) Wandering domains and random walks in Gevrey near-integrable systems. (English summary) **2005g:37115**
Mitropol'skiĭ, Yuriĭ Alekseevich *see* **Grebenikov, E. A. et al., 2005d:34099**
Ryabov, Yu. A. *see* **Grebenikov, E. A. et al., 2005d:34099**
Sauzin, David *see* **Marco, Jean-Pierre, 2005g:37115**

70K40 Forced motions

Bajaj, Anil K. (*with* Davies, Patricia; Banerjee, Bappaditya) Non-stationary responses in externally excited two-degrees-of-freedom nonlinear systems with 1 : 2 internal resonance. (English summary) **2005g:70039**
Banerjee, Bappaditya *see* **Bajaj, Anil K. et al., 2005g:70039**
Bulian, Gabriele Approximate analytical response curve for a parametrically excited highly nonlinear 1-DOF system with an application to ship roll motion prediction. (English summary) **2005b:70026**
Davies, Patricia *see* **Bajaj, Anil K. et al., 2005g:70039**
Legeza, V. P. Forced oscillations of an inverted pendulum with a heavy ball in its spherical groove under the influence of a periodic force. (Russian. English, Russian and Ukrainian summaries)

Items with secondary classifications in 70K40

Abdelhafez, H. M. Resonance of a nonlinear forced system with two-frequency parametric and self-excitations. (English summary) **2005b:34110**

Balandin, D. V. (*with* Kogan, M. M.; Fedyukov, A. A.) Optimal damping of oscillations of a pendulum under uncertain external and parametric perturbations. (Russian. Russian summary) **2005c:34070**
Bartuccelli, Michele V. (*with* Deane, J. H. B.; Gentile, Guido; Gourley, Stephen A.) Global attraction to the origin in a parametrically driven nonlinear oscillator. (English summary) **2005d:34077**
Deane, J. H. B. *see* **Bartuccelli, Michele V. et al., 2005d:34077**
Fedyukov, A. A. *see* **Balandin, D. V. et al., 2005c:34070**
Gentile, Guido *see* **Bartuccelli, Michele V. et al., 2005d:34077**
Gourley, Stephen A. *see* **Bartuccelli, Michele V. et al., 2005d:34077**
Kogan, M. M. *see* **Balandin, D. V. et al., 2005c:34070**
Kovaleva, A. S. Frequency and phase control of the resonance oscillations of a nonlinear system under uncertainty conditions. (Russian. Russian summary) **2005h:70031**
Mestel, B. D. (*with* Osbaldestin, Andrew H.) Renormalization of correlations in a quasiperiodically forced two-level system: quadratic irrationals. (English summary) **2005g:37165**
Osbaldestin, Andrew H. *see* **Mestel, B. D., 2005g:37165**

70K42 Equilibria and periodic trajectories

Abouhazim, Nazha (*with* Belhaq, Mohamed; Lakrad, Faouzi) Three-period quasi-periodic solutions in the self-excited quasi-periodic Mathieu oscillator. (English summary)
Alimi, Mohammad H. *see* **Nakhaie Jazar, Gholamreza et al.**
Belhaq, Mohamed *see* **Abouhazim, Nazha et al.**
Esmailzadeh, E. *see* **Younesian, D. et al.**
Izrailovich, M. Ya. The problem of the accumulation of periodic disturbances in a periodically nonstationary quasiharmonic system. (Russian)
Khazaei, Ali *see* **Nakhaie Jazar, Gholamreza et al.**
Lakrad, Faouzi *see* **Abouhazim, Nazha et al.**
Mahinfalah, Mohammad *see* **Nakhaie Jazar, Gholamreza et al.**
Nakhaie Jazar, Gholamreza (*with* Mahinfalah, Mohammad; Alimi, Mohammad H.; Khazaei, Ali) Periodic behavior of a nonlinear third order vibrating system. (English summary)
Sedaghati, R. *see* **Younesian, D. et al.**
Younesian, D. (*with* Esmailzadeh, E.; Sedaghati, R.) Existence of periodic solutions for the generalized form of Mathieu equation. (English summary)

Items with secondary classifications in 70K42

Azevêdo, C. (*with* Ontaneda, Pedro) Continuous symmetric perturbations of planar power law forces. (English summary) **2005m:34100**
Bergman, Lawrence A. *see* **Lee, Young Sup et al., 2005m:70079**
Camacho, Erika (*with* Rand, Richard H.; Howland, Howard) Dynamics of two van der Pol oscillators coupled via a bath. (English summary) **2005a:34051**
Chalykh, Oleg A. (*with* Veselov, A. P.) A remark on rational isochronous potentials. (English summary) **2005h:70020**
Chen, Kuo-Chang Binary decompositions for planar N-body problems and symmetric periodic solutions. (English summary) **2005c:70009**
(Chen, Yung-Fu) *see* **Makowski, Adam J.**
Cicci, D. A. *see* **Rossi, E. V. et al., 2005b:70031**
Cochran, J. E., Jr. *see* **Rossi, E. V. et al., 2005b:70031**
Das, S. N. (*with* Das, Samir K.) Determination of coupled sway, roll, and yaw motions of a floating body in regular waves. (English summary) **2005f:34107**
Das, Samir K. *see* **Das, S. N., 2005f:34107**
El-Bassiouny, A. F. Principal parametric resonances of non-linear mechanical system with two-frequency and self-excitations. (English summary) **2005i:70056**
Gandzha, Ivan S. (*with* Lukomskiĭ, V. P.) Uniform expansions of periodic solutions for the third superharmonic resonance. (English summary) **2005i:34050**
Henrard, Jacques (*with* Navarro, Juan F.) Families of periodic orbits emanating from homoclinic orbits in the restricted problem of three bodies. (English summary) **2005i:70011**
Higuchi, Ken *see* **Takeichi, Noboru et al.**
Howland, Howard *see* **Camacho, Erika et al., 2005a:34051**
(Huang, Kai Feng) *see* **Makowski, Adam J.**
Kerschen, Gaetan *see* **Lee, Young Sup et al., 2005m:70079**
Kholostova, O. V. Periodic motions of a nearly dynamically symmetric satellite in a neighborhood of a conical precession. (Russian. Russian summary) **2005e:70037**
Krauskopf, Bernd *see* **Sieber, Jan, 2005d:93075**
Lee, Young Sup (*with* Kerschen, Gaetan; Vakakis, Alexander F.; Panagopoulos, Panagiotis; Bergman, Lawrence A.; McFarland, D. Michael) Complicated dynamics of a linear oscillator with a light, essentially nonlinear attachment. (English summary) **2005m:70079**
Lenci, Stefano (*with* Rega, Giuseppe) Regular nonlinear dynamics and bifurcations of an impacting system under general periodic excitation. (English summary) **2005c:70026**
Llibre, Jaume (*with* Ollé, Mercè) Horseshoe periodic orbits in the restricted three body problem. (English summary) **2005e:70010**
Lukomskiĭ, V. P. *see* **Gandzha, Ivan S., 2005i:34050**
Makowski, Adam J. Comment on: "Vortex structure of quantum eigenstates and classical periodic orbits in two-dimensional harmonic oscillators" [J. Phys. A **36** (2003), no. 28, 7751–7760; MR2004945] by Y. F. Chen and K. F. Huang. (English summary)
McFarland, D. Michael *see* **Lee, Young Sup et al., 2005m:70079**
Natori, M. C. *see* **Takeichi, Noboru et al.**
Navarro, Juan F. *see* **Henrard, Jacques, 2005i:70011**
Okuizumi, Nobukatsu *see* **Takeichi, Noboru et al.**
Ollé, Mercè *see* **Llibre, Jaume, 2005e:70010**
Ontaneda, Pedro *see* **Azevêdo, C., 2005m:34100**
Panagopoulos, Panagiotis *see* **Lee, Young Sup et al., 2005m:70079**
Qian, Dingbian Large amplitude periodic bouncing for impact oscillators with damping. (English summary) **2005m:34091**
Rand, Richard H. *see* **Camacho, Erika et al., 2005a:34051**
Rega, Giuseppe *see* **Lenci, Stefano, 2005c:70026**
Rossi, E. V. (*with* Cicci, D. A.; Cochran, J. E., Jr.) Existence of periodic motions of a tether trailing satellite. (English summary) **2005b:70031**
Sieber, Jan (*with* Krauskopf, Bernd) Complex balancing motions of an inverted pendulum subject to delayed feedback control. (English summary) **2005d:93075**
Takeichi, Noboru (*with* Natori, M. C.; Okuizumi, Nobukatsu; Higuchi, Ken) Periodic solutions and controls of tethered systems in elliptic orbits. (English summary)
Titova, N. N. (*with* Tkhaĭ, V. N.) On the existence of symmetric periodic motions in a reversible system with two degrees of freedom. (Russian. English and Russian summaries) **2005d:34091**
Tkhaĭ, V. N. *see* **Titova, N. N., 2005d:34091**
Vakakis, Alexander F. *see* **Lee, Young Sup et al., 2005m:70079**
Veselov, A. P. *see* **Chalykh, Oleg A., 2005h:70020**

70K43 Quasi-periodic motions and invariant tori

Items with secondary classifications in 70K43

Berretti, Alberto (*with* Gentile, Guido) Scaling of the critical function for the standard map: some numerical results. (English summary) **2005i:37046**
Froeschlé, Claude *see* **Guzzo, Massimiliano et al., 2005m:37139**
Gentile, Guido *see* **Berretti, Alberto, 2005i:37046**
Guzzo, Massimiliano (*with* Lega, Elena; Froeschlé, Claude) First numerical evidence of global Arnold diffusion in quasi-integrable systems. (English summary) **2005m:37139**
Lega, Elena *see* **Guzzo, Massimiliano et al., 2005m:37139**
Xu, Jun Xiang Normal form of reversible systems and persistence of lower dimensional tori under weaker nonresonance conditions. (English summary) **2005f:37132**

70K44 Homoclinic and heteroclinic trajectories

Items with secondary classifications in 70K44

Alessio, Francesca (*with* Coti Zelati, Vittorio; Montecchiari, Piero) Chaotic behavior of rapidly oscillating Lagrangian systems. (English summary) **2005b:37134**
Baldomá, Inmaculada (*with* Fontich, Ernest) Exponentially small splitting of invariant manifolds of parabolic points. (English summary) **2005f:37127**
Contopoulos, G. (*with* Harsoula, M.) Chaos in the case of two fixed black holes. (English summary) **2005h:83099**
Coti Zelati, Vittorio *see* **Alessio, Francesca et al., 2005b:37134**
Diacu, Florin (*with* Santoprete, Manuele) On the global dynamics of the anisotropic Manev problem. (English summary) **2005c:70008**
Ding, Yan Heng Homoclinic orbits of Hamiltonian systems. **2005m:37145**
Donnay, Victor J. Creating transverse homoclinic connections in planar billiards. (English and Russian summaries) **2005b:37137**
Fontich, Ernest *see* **Baldomá, Inmaculada, 2005f:37127**
Harsoula, M. *see* **Contopoulos, G., 2005h:83099**
Montecchiari, Piero *see* **Alessio, Francesca et al., 2005b:37134**
Rabinowitz, Paul H. A note on Hamiltonian systems of multiple pendulum type. **2005k:37137**
Rom-Kedar, Vered Frequency spanning homoclinic families. (English summary) **2005b:37117**
Santoprete, Manuele *see* **Diacu, Florin, 2005c:70008**

70K45 Normal forms

Items with secondary classifications in 70K45

Berti, Massimiliano (*with* Biasco, Luca; Valdinoci, Enrico) Periodic orbits close to elliptic tori and applications to the three-body problem. (English summary) **2005e:37130**
Biasco, Luca *see* **Berti, Massimiliano et al., 2005e:37130**
Delshams, Amadeu (*with* Gutiérrez, Pere) Exponentially small spliting for whiskered tori in Hamiltonian systems: continuation of transverse homoclinic orbits. (English summary) **2005j:37101**
— (*with* Gutiérrez, Pere; Seara, Tere M.) Exponentially small splitting for whiskered tori in Hamiltonian sysems: flow-box coordinates and upper bounds. (English summary) **2005j:37102**
Gutiérrez, Pere *see* **Delshams, Amadeu et al., 2005j:37101** *and* **2005j:37102**
Palacián, Jesús F. (*with* Yanguas, Patricia) Invariant manifolds of spatial restricted three-body problems: the lunar case. (English summary) **2005i:70013**
Seara, Tere M. *see* **Delshams, Amadeu et al., 2005j:37102**
Valdinoci, Enrico *see* **Berti, Massimiliano et al., 2005e:37130**
Xu, Jun Xiang Normal form of reversible systems and persistence of lower dimensional tori under weaker nonresonance conditions. (English summary) **2005f:37132**
Yanguas, Patricia *see* **Palacián, Jesús F., 2005i:70013**
Yu, Pei[1] (*with* Zhu, Songhui) Computation of the normal forms for general M-DOF systems using multiple time scales. I. Autonomous systems. (English summary) **2005k:34153**
Zhu, Songhui *see* **Yu, Pei[1], 2005k:34153**

70K50 Bifurcations and instability

Avramov, K. V. Bifurcations of almost periodically excited frictional oscillations. (Russian. English summary) **2005m:70076**
Bergman, Lawrence A. *see* **Lee, Young Sup et al., 2005m:70079**
Bratus', A. S. (*with* Novozhilov, A. S.) Stabilizing effect of nonlinear damping for a system with follower force. (English summary) **2005m:70077**
Champneys, Alan R. *see* **Piiroinen, P. T. et al., 2005b:70027**
Chen, Lijuan (*with* Li, Ji-bin) Chaotic behavior and subharmonic bifurcations for a rotating pendulum equation. (English summary) **2005g:70040**
Dankowicz, Harry (*with* Zhao, Xiaopeng) Local analysis of co-dimension-one and co-dimension-two grazing bifurcations in impact microactuators. (English summary) **2005m:70078**

Davies, Huw G. Slow sinusoidal modulation through bifurcations: the effect of additive noise. (English summary)
Dessi, D. (*with* Mastroddi, F.; Morino, L.) A fifth-order multiple-scale solution for Hopf bifurcations. (English summary) **2005g:70041**
Di Egidio, Angelo *see* **Luongo, Angelo et al., 2005a:70028**
Ding, Wangcai *see* **Xie, JianHua, 2005j:70052**
Gendelman, Oleg V. Bifurcations of nonlinear normal modes of linear oscillator with strongly nonlinear damped attachment. (English summary) **2005e:70033**
Kerschen, Gaetan *see* **Lee, Young Sup et al., 2005m:70079**
Koval′chuk, V. V. (*with* Lobas, V. L.) Divergent bifurcations of a double pendulum under an asymmetric follower force. (Russian. English and Ukrainian summaries)
Lee, Young Sup (*with* Kerschen, Gaetan; Vakakis, Alexander F.; Panagopoulos, Panagiotis; Bergman, Lawrence A.; McFarland, D. Michael) Complicated dynamics of a linear oscillator with a light, essentially nonlinear attachment. (English summary) **2005m:70079**
Lenci, Stefano (*with* Rega, Giuseppe) Regular nonlinear dynamics and bifurcations of an impacting system under general periodic excitation. (English summary) **2005c:70026**
— (*with* Rega, Giuseppe) Higher-order Melnikov functions for single-DOF mechanical oscillators: theoretical treatment and applications. **2005e:70034**
Li, Ji-bin *see* **Chen, Lijuan, 2005g:70040**
Lobas, V. L. *see* **Koval′chuk, V. V.**
Luongo, Angelo (*with* Paolone, Achille; Di Egidio, Angelo) Multiple timescales analysis for 1 : 2 and 1 : 3 resonant Hopf bifurcations. (English summary) **2005a:70028**
Mastroddi, F. *see* **Dessi, D. et al., 2005g:70041**
McFarland, D. Michael *see* **Lee, Young Sup et al., 2005m:70079**
Morino, L. *see* **Dessi, D. et al., 2005g:70041**
Novozhilov, A. S. *see* **Bratus′, A. S., 2005m:70077**
Panagopoulos, Panagiotis *see* **Lee, Young Sup et al., 2005m:70079**
Paolone, Achille *see* **Luongo, Angelo et al., 2005a:70028**
Piiroinen, P. T. (*with* Virgin, L. N.; Champneys, Alan R.) Chaos and period-adding: experimental and numerical verification of the grazing bifurcation. (English summary) **2005b:70027**
Rega, Giuseppe *see* **Lenci, Stefano, 2005c:70026** *and* **2005e:70034**
Vakakis, Alexander F. *see* **Lee, Young Sup et al., 2005m:70079**
Virgin, L. N. *see* **Piiroinen, P. T. et al., 2005b:70027**
Wen, Gui-Lin (*with* Xie, JianHua; Xu, Daolin) Onset of degenerate Hopf bifurcation of a vibro-impact oscillator. (English summary) **2005e:70035**
Xie, JianHua (*with* Ding, Wangcai) Hopf-Hopf bifurcation and invariant torus $\mathbf{T}^2$ of a vibro-impact system. (English summary) **2005j:70052**
— *see also* **Wen, Gui-Lin et al., 2005e:70035**
Xu, Daolin *see* **Wen, Gui-Lin et al., 2005e:70035**
Zhao, Xiaopeng *see* **Dankowicz, Harry, 2005m:70078**

Items with secondary classifications in 70K50

Alonso, Diego M. (*with* Paolini, Eduardo E.; Moiola, Jorge L.) Global bifurcation analysis of a controlled underactuated mechanical system. (English summary)
Bajaj, Anil K. (*with* Davies, Patricia; Banerjee, Bappaditya) Non-stationary responses in externally excited two-degrees-of-freedom nonlinear systems with 1 : 2 internal resonance. (English summary) **2005g:70039**
Banerjee, Bappaditya *see* **Bajaj, Anil K. et al., 2005g:70039**
Ben-Gal, N. (*with* Moore, Kristen S.) Bifurcation and stability properties of periodic solutions to two nonlinear spring-mass systems. (English summary) **2005m:34088**
Broer, Henk W. (*with* Hoveijn, Igor; Lunter, Gerton; Vegter, Gert) ★ Bifurcations in Hamiltonian systems. **2005d:37110**
Bulian, Gabriele Approximate analytical response curve for a parametrically excited highly nonlinear 1-DOF system with an application to ship roll motion prediction. (English summary) **2005b:70026**
Camacho, Erika (*with* Rand, Richard H.; Howland, Howard) Dynamics of two van der Pol oscillators coupled via a bath. (English summary) **2005a:34051**
Campbell, Sue Ann *see* **Stone, Emily F., 2005g:34201**
Chamara, P. A. *see* **Coller, B. D., 2005f:74041**
Chen, Hsien-Keng (*with* Ge, Zheng Ming) Bifurcations and chaos of a two-degree-of-freedom dissipative gyroscope. (English summary)
Coller, B. D. (*with* Chamara, P. A.) Structural non-linearities and the nature of the classic flutter instability. (English summary) **2005f:74041**
Davies, Patricia *see* **Bajaj, Anil K. et al., 2005g:70039**
Di Egidio, Angelo *see* **Luongo, Angelo et al., 2005k:34157**
Diminnie, David C. *see* **Haberman, Richard, 2005d:37112**
Dowell, Earl H. *see* **Liu, Liping[1]**
Fang, Tong *see* **He, Qun et al., 2005e:34115**
Feely, Orla *see* **Vasylenko, Anna et al., 2005c:37068**
Feudel, Ulrike *see* **Vasylenko, Anna et al., 2005c:37068**
Gan, Chunbiao Stochastic Hopf bifurcation in quasi-integrable-Hamiltonian systems. (English summary)
Ge, Zheng Ming *see* **Chen, Hsien-Keng**
Goto, Norihiro (*with* Kawakita, Takashi) Bifurcation analysis for the inertial coupling problem of a reentry vehicle. (English summary) (*see* **2005c:93005**)
Guckenheimer, John Bifurcations of relaxation oscillations. (English summary) **2005e:34121**
Haberman, Richard (*with* Diminnie, David C.) On the dynamic unfolding of a saddle-center bifurcation and the change in the action. (English summary) **2005d:37112**
He, Qun (*with* Xu, Wei[3]; Rong, Hai Wu; Fang, Tong) Stochastic bifurcation in Duffing-Van der Pol oscillators. (English summary) **2005e:34115**
Hoveijn, Igor *see* **Broer, Henk W. et al., 2005d:37110**
Howland, Howard *see* **Camacho, Erika et al., 2005a:34051**
Jiang, Wei Hua[2] *see* **Wei, Jun Jie, 2005m:34186**
Kawakita, Takashi *see* **Goto, Norihiro, (2005c:93005)**
Khalique, C. M. *see* **Ünal, Gazanfer, 2005g:70034**
Krauskopf, Bernd *see* **Sieber, Jan, 2005d:93075**
Lakrad, Faouzi (*with* Schiehlen, Werner) Effects of a low frequency parametric excitation. (English summary) **2005c:74040**
Lenci, Stefano (*with* Rega, Giuseppe) A unified control framework of the non-regular dynamics of mechanical oscillators. (English summary)
Liu, Jiaqi *see* **Wang, Hongbin**
Liu, Liping[1] (*with* Dowell, Earl H.) The secondary bifurcation of an aeroelastic airfoil motion: effect of high harmonics. (English summary)
Lunter, Gerton *see* **Broer, Henk W. et al., 2005d:37110**
Luo, Albert C. J. A theory for non-smooth dynamic systems on the connectable domains. (English summary) **2005j:34008**
Luongo, Angelo (*with* Di Egidio, Angelo; Paolone, Achille) Multiscale analysis of defective multiple-Hopf bifurcations. (English summary) **2005k:34157**
Maĭstrenko, Yuriĭ L. *see* **Vasylenko, Anna et al., 2005c:37068**
Moiola, Jorge L. *see* **Alonso, Diego M. et al.**
Moore, Kristen S. *see* **Ben-Gal, N., 2005m:34088**
Olson, B. J. (*with* Shaw, S. W.; Stépán, Gábor) Stability and bifurcation of longitudinal vehicle braking. (English summary)
Paolini, Eduardo E. *see* **Alonso, Diego M. et al.**
Paolone, Achille *see* **Luongo, Angelo et al., 2005k:34157**
Pumariño, Antonio (*with* Valls, Clàudia) On the double pendulum: an example of double resonant situations. (English summary) **2005f:37130**
Ramakrishnan, Narayanan *see* **Sri Namachchivaya, N., 2005b:70029**
Rand, Richard H. *see* **Camacho, Erika et al., 2005a:34051**
Rega, Giuseppe *see* **Lenci, Stefano**
Rong, Hai Wu *see* **He, Qun et al., 2005e:34115**
Schiehlen, Werner *see* **Lakrad, Faouzi, 2005c:74040**
Shaw, S. W. *see* **Olson, B. J. et al.**
Sieber, Jan (*with* Krauskopf, Bernd) Complex balancing motions of an inverted pendulum subject to delayed feedback control. (English summary) **2005d:93075**
Sri Namachchivaya, N. (*with* Ramakrishnan, Narayanan) Stochastic dynamics of parametrically excited two d.o.f. systems with symmetry. (English summary) **2005b:70029**
Stépán, Gábor *see* **Olson, B. J. et al.**
Stone, Emily F. (*with* Campbell, Sue Ann) Stability and bifurcation analysis of a nonlinear DDE model for drilling. (English summary) **2005g:34201**
Ünal, Gazanfer (*with* Khalique, C. M.) Approximate first integrals of the Hénon-Heiles system revisited. (English summary) **2005g:70034**
Valls, Clàudia *see* **Pumariño, Antonio, 2005f:37130**
Vasylenko, Anna (*with* Maĭstrenko, Yuriĭ L.; Feely, Orla; Feudel, Ulrike) Mode-locking in quasiperiodically forced systems with very small driving frequency. (English summary) **2005c:37068**
Vegter, Gert *see* **Broer, Henk W. et al., 2005d:37110**
Wang, Feng-Xia *see* **Zhang, Wei[10] et al., 2005i:74039**
Wang, Hongbin (*with* Liu, Jiaqi) Stability and bifurcation analysis in a magnetic bearing system with time delays. (English summary)
Wei, Jun Jie (*with* Jiang, Wei Hua[2]) Stability and bifurcation analysis in Van der Pol's oscillator with delayed feedback. (English summary) **2005m:34186**
Xu, Wei[3] *see* **He, Qun et al., 2005e:34115**
Yagasaki, Kazuyuki Computation of low energy Earth-to-Moon transfer with moderate flight time. (English summary) **2005f:70034**
Zhang, Wei[10] (*with* Wang, Feng-Xia; Zu, Jean W.) Local bifurcations and codimension-3 degenerate bifurcations of a quintic nonlinear beam under parametric excitation. (English summary) **2005i:74039**
Zu, Jean W. *see* **Zhang, Wei[10] et al., 2005i:74039**

Items listed otherwise than by author

Lecture Notes in Mathematics *see* **Broer, Henk W. et al., 2005d:37110**

70K55 Transition to stochasticity (chaotic behavior) [see also 37D45]

Awrejcewicz, Jan (*with* Sendkowski, D.) How to predict stick-slip chaos in $\mathbf{R}^4$. (English summary)
Balibrea Gallego, Francisco (*with* Chacón, Ricardo; López, Miguel Ángel) Reshaping-induced order-chaos routes in a damped driven Helmholtz oscillator. (English summary)
Balthazar, José Manoel *see* **Horta Dantas, Márcio José, 2005a:70029**
Chacón, Ricardo *see* **Balibrea Gallego, Francisco et al.**
Horta Dantas, Márcio José (*with* Balthazar, José Manoel) On local analysis of oscillations of a non-ideal and non-linear mechanical model. (English summary) **2005a:70029**
Knudsen, Carsten *see* **Kuznetsova, A. Yu. et al., 2005b:70028**
Kuznetsov, A. P. *see* **Kuznetsova, A. Yu. et al., 2005b:70028**
Kuznetsova, A. Yu. (*with* Kuznetsov, A. P.; Knudsen, Carsten; Mosekilde, Erik) Catastrophe theoretic classification of nonlinear oscillators. (English summary) **2005b:70028**
López, Miguel Ángel *see* **Balibrea Gallego, Francisco et al.**
Luo, Guanwei (*with* Xie, JianHua) Periodic and chaotic behavior of a class of vibro-impact systems contacting a single stop. (English summary) **2005j:70053**
Mosekilde, Erik *see* **Kuznetsova, A. Yu. et al., 2005b:70028**
Sendkowski, D. *see* **Awrejcewicz, Jan**
Xie, JianHua *see* **Luo, Guanwei, 2005j:70053**

Items with secondary classifications in 70K55

Abadi *see* **Verhulst, F., 2005i:70057**
Arrowsmith, D. K. *see* **Gutiérrez, Eugenio**
Awrejcewicz, Jan (*with* Kudra, Grzegorz; Lamarque, Claude-Henri) Investigation of triple pendulum with impacts using fundamental solution matrices. (English summary)
Balthazar, José Manoel *see* **Belato, Débora et al., (2005b:93006)**
Belato, Débora (*with* Weber, Hans Ingo; Balthazar, José Manoel) A preliminary analysis of the phase portrait's structure of a nonlinear pendulum-mechanical system using the perturbed Hamiltonian formulation. (English summary) (*see* **2005b:93006**)
Berchialla, Luisa (*with* Galgani, Luigi; Giorgilli, Antonio) Localization of energy in FPU chains. (English summary) **2005h:37178**
Borisov, Alekseĭ Vladimirovich (*with* Mamaev, I. S.; Kilin, A. A.) Two-body problem on a sphere. Reduction, stochasticity, periodic orbits. (English summary) **2005k:37199**

Burgos, Melissa *see* **Gidea, Marian, 2005c:70010**
Burnell, F. (*with* Malecki, Justin John; Mann, Robert B.; Ohta, Tadayuki) Chaos in an exact relativistic three-body self-gravitating system. (English summary) **2005g:83091**
Callegari, N., Jr. (*with* Michtchenko, T. A.; Ferraz-Mello, S.) Dynamics of two planets in the 2/1 mean-motion resonance. (English summary) **2005f:70020**
Cao, Hongjun (*with* Chi, Xue Bin; Chen, Guanrong) Suppressing or inducing chaos in a model of robot arms and mechanical manipulators. (English summary) **2005g:70007**
Carpintero, D. D. *see* **Muzzio, J. C. et al.**
Cerdeira, Hilda A. *see* **Rodríguez-Achach, Manuel et al., 2005d:81158**
Champneys, Alan R. *see* **Piiroinen, P. T. et al., 2005b:70027**
Chandre, C. *see* **Ciraolo, Guido et al., 2005i:70032**
Chen, Guanrong *see* **Cao, Hongjun et al., 2005g:70007**
Chen, Hsien-Keng (*with* Ge, Zheng Ming) Bifurcations and chaos of a two-degree-of-freedom dissipative gyroscope. (English summary)
Chen, Lijuan (*with* Li, Ji-bin) Chaotic behavior and subharmonic bifurcations for a rotating pendulum equation. (English summary) **2005g:70040**
Chi, Xue Bin *see* **Cao, Hongjun et al., 2005g:70007**
Ciraolo, Guido (*with* Chandre, C.; Lima, Ricardo; Vittot, Michel; Pettini, Marco) Control of chaos in Hamiltonian systems. (English summary) **2005i:70032**
Contopoulos, G. *see* **Efthymiopoulos, C. et al., 2005f:70025**
Cooley, Bryan B. (*with* Newton, Paul K.) Random number generation from chaotic impact collisions. (English summary) **2005f:70032**
Cucu-Dumitrescu, C. *see* **Şelaru, D. et al., 2005k:70028**
Dzhanoev, A. R. *see* **Loskutov, A. Yu.**
Efthymiopoulos, C. (*with* Giorgilli, Antonio; Contopoulos, G.) Nonconvergence of formal integrals. II. Improved estimates for the optimal order of truncation. (English summary) **2005f:70025**
Elipe Sánchez, Antonio C. (*with* Lara, Martín) A simple model for the chaotic motion around (433) Eros. (English summary) **2005g:70023**
Érdi, Bálint *see* **Sándor, Zsolt et al., 2005h:37079**
Ferraz-Mello, S. *see* **Callegari, N., Jr. et al., 2005f:70020**
Freire Macías, Emilio *see* **Muñoz-Almaraz, F. J. et al.,** (2005b:93007)
Funk, Barbara *see* **Sándor, Zsolt et al., 2005h:37079**
Furi, Massimo (*with* Martelli, Mario Umberto; O'Neill, Michael D.; Staples, Carolyn) Chaotic orbits of a pendulum with variable length. (English summary) **2005d:34097**
Galán-Vioque, J. *see* **Muñoz-Almaraz, F. J. et al.,** (2005b:93007)
Galgani, Luigi *see* **Berchialla, Luisa et al., 2005h:37178**
Ge, Zheng Ming (*with* Lee, Jui-Kai) Chaos synchronization and parameter identification for gyroscope system. (English summary) **2005j:70007**
— *see also* **Chen, Hsien-Keng**
Ghaffari-Saadat, Mohammad H. *see* **Shirazi, Kourosh H., 2005j:70054**
Ghenescu, M. *see* **Şelaru, D. et al., 2005k:70028**
Gidea, Marian (*with* Burgos, Melissa) Chaotic transfers in three- and four-body systems. (English summary) **2005c:70010**
Giorgilli, Antonio *see* **Efthymiopoulos, C. et al., 2005f:70025** *and* **Berchialla, Luisa et al., 2005h:37178**
Guo, Rong Wei[2] (*with* Huang, De Bin; Zhang, Li Zhen[2]) Long range chaotic behavior of quasiperiodically forced Morse oscillator. (Chinese. English and Chinese summaries)
Gutiérrez, Eugenio (*with* Arrowsmith, D. K.) Control of a double impacting mechanical oscillator using displacement feedback. (English summary)
Huang, De Bin *see* **Guo, Rong Wei[2] et al.**
Jing, Zhujun (*with* Wang, Rui-qi) Complex dynamics in Duffing system with two external forcings. (English summary) **2005f:34126**
Kilin, A. A. *see* **Borisov, Alekseĭ Vladimirovich et al., 2005k:37199**
Kim, Sang-Yoon *see* **Lim, Woochang, 2005d:37068**
Kuang, Jin Lu (*with* Leung, Andrew Y. T.; Tan, Soonhie) Hamiltonian and chaotic attitude dynamics of an orbiting gyrostat satellite under gravity-gradient torques. (English summary) **2005e:70038**
— *see also* **Leung, Andrew Y. T., 2005e:37202**
Kudra, Grzegorz *see* **Awrejcewicz, Jan et al.**
Lakrad, Faouzi (*with* Schiehlen, Werner) Effects of a low frequency parametric excitation. (English summary) **2005c:74040**
Lamarque, Claude-Henri *see* **Awrejcewicz, Jan et al.**
Lara, Martín *see* **Elipe Sánchez, Antonio C., 2005g:70023**
Lee, Jui-Kai *see* **Ge, Zheng Ming, 2005j:70007**
Leonel, Edson D. (*with* McClintock, P. V. E.) Chaotic properties of a time-modulated barrier. (English summary) **2005j:37045**
Leung, Andrew Y. T. (*with* Kuang, Jin Lu) Spatial chaos of 3-D elastica with the Kirchhoff gyrostat analogy using Melnikov integrals. (English summary) **2005e:37202**
— *see also* **Kuang, Jin Lu et al., 2005e:70038**
Li, Ji-bin *see* **Chen, Lijuan, 2005g:70040**
Lim, Woochang (*with* Kim, Sang-Yoon) Universality for the parameter-mismatching effect on weak synchronization in coupled chaotic systems. (English summary) **2005d:37068**
Lima, Ricardo *see* **Ciraolo, Guido et al., 2005i:70032**
Llibre, Jaume (*with* Pérez-Chavela, E.) Transversal homoclinic orbits in the collinear restricted three-body problem. (English summary) **2005k:70027**
Lopes, S. R. *see* **Szezech, J. D., Jr. et al., 2005i:70042**
Loskutov, A. Yu. (*with* Dzhanoev, A. R.) Stabilization of the chaotic behavior of dynamical systems. (Russian)
Lu, Ling-Yi (*with* Lu, Zi Hua) The Hilbert phenomenon in chaotic motions. (English summary) **2005f:37064**
Lu, Zi Hua *see* **Lu, Ling-Yi, 2005f:37064**
Malecki, Justin John *see* **Burnell, F. et al., 2005g:83091**
Mamaev, I. S. *see* **Borisov, Alekseĭ Vladimirovich et al., 2005k:37199**
Mann, Robert B. *see* **Burnell, F. et al., 2005g:83091**
Manucharyan, G. V. *see* **Mikhlin, Yu. V. et al.**
Martelli, Mario Umberto *see* **Furi, Massimo et al., 2005d:34097**
McClintock, P. V. E. *see* **Leonel, Edson D., 2005j:37045**
Michtchenko, T. A. *see* **Callegari, N., Jr. et al., 2005f:70020**
Mikhlin, Yu. V. (*with* Shmatko, T. V.; Manucharyan, G. V.) Stability of regular and chaotic forms of oscillations in elastic systems with several equilibrium. (Russian. Russian summary)
Mioc, V. *see* **Şelaru, D. et al., 2005k:70028**
Muñoz-Almaraz, F. J. (*with* Freire Macías, Emilio; Galán-Vioque, J.) Bifurcations and control of periodic orbits in symmetric Hamiltonian systems: an application to the Furuta pendulum. (English summary) (*see* **2005b:93007**)
Muzzio, J. C. (*with* Carpintero, D. D.; Wachlin, F. C.) Spatial structure of regular and chaotic orbits in a self-consistent triaxial stellar system. (English summary)
Nagler, Jan Crash test for the Copenhagen problem. (English summary) **2005e:70012**
— Crash test for the restricted three-body problem. (English summary) **2005m:70060**
Nanayakkara, Asiri Classical trajectories of 1D complex non-Hermitian Hamiltonian systems. (English summary) **2005a:70021**
Newton, Paul K. *see* **Cooley, Bryan B., 2005f:70032**
Nguyen Van Dao (*with* Nguyen Van Dinh; Tran Kim Chi) A van der Pol oscillator subjected to complicated excitations chaotic phenomenon. (English summary)
Nguyen Van Dinh *see* **Nguyen Van Dao et al.**
Ohta, Tadayuki *see* **Burnell, F. et al., 2005g:83091**
O'Neill, Michael D. *see* **Furi, Massimo et al., 2005d:34097**
Pérez, Gabriel *see* **Rodríguez-Achach, Manuel et al., 2005d:81158**
Pérez-Chavela, E. *see* **Llibre, Jaume, 2005k:70027**
Pettini, Marco *see* **Ciraolo, Guido et al., 2005i:70032**
Piiroinen, P. T. (*with* Virgin, L. N.; Champneys, Alan R.) Chaos and period-adding: experimental and numerical verification of the grazing bifurcation. (English summary) **2005b:70027**
Rodríguez-Achach, Manuel (*with* Pérez, Gabriel; Cerdeira, Hilda A.) Quantum and thermal corrections to a classically chaotic dissipative system. (English summary) **2005d:81158**
Sándor, Zsolt (*with* Érdi, Bálint; Széll, András; Funk, Barbara) The relative Lyapunov indicator: an efficient method of chaos detection. (English summary) **2005h:37079**
Sano, Mitsusada M. The classical Coulomb three-body problem in the collinear *eZe* configuration. (English summary) **2005e:70017**
Schiehlen, Werner *see* **Lakrad, Faouzi, 2005c:74040**
Şelaru, D. (*with* Mioc, V.; Cucu-Dumitrescu, C.; Ghenescu, M.) Chaos in Hill's generalized problem: from the solar system to black holes. (English summary) **2005k:70028**
Shirazi, Kourosh H. (*with* Ghaffari-Saadat, Mohammad H.) Bifurcation and chaos in an apparent-type gyrostat satellite. (English summary) **2005j:70054**
Shmatko, T. V. *see* **Mikhlin, Yu. V. et al.**
Staples, Carolyn *see* **Furi, Massimo et al., 2005d:34097**
Széll, András *see* **Sándor, Zsolt et al., 2005h:37079**
Szezech, J. D., Jr. (*with* Lopes, S. R.; Viana, Ricardo L.) Finite-time Lyapunov spectrum for chaotic orbits of non-integrable Hamiltonian systems. (English summary) **2005i:70042**
Tan, Soonhie *see* **Kuang, Jin Lu et al., 2005e:70038**
Tran Kim Chi *see* **Nguyen Van Dao et al.**
Verhulst, F. (*with* Abadi) Autoparametric resonance of relaxation oscillations. (English summary) **2005i:70057**
Viana, Ricardo L. *see* **Szezech, J. D., Jr. et al., 2005i:70042**
Virgin, L. N. *see* **Piiroinen, P. T. et al., 2005b:70027**
Vittot, Michel *see* **Ciraolo, Guido et al., 2005i:70032**
Wachlin, F. C. *see* **Muzzio, J. C. et al.**
Wang, Feng-Xia *see* **Zhang, Wei[10] et al., 2005k:74052**
Wang, Rui-qi *see* **Jing, Zhujun, 2005f:34126**
Weber, Hans Ingo *see* **Belato, Débora et al.,** (2005b:93006)
Yao, Ming-hui *see* **Zhang, Wei[10] et al., 2005k:74052**
Zhang, Li Zhen[2] *see* **Guo, Rong Wei[2] et al.**
Zhang, Wei[10] (*with* Wang, Feng-Xia; Yao, Ming-hui) Global bifurcations and chaotic dynamics in nonlinear nonplanar oscillations of a parametrically excited cantilever beam. (English summary) **2005k:74052**

70K60 General perturbation schemes

Cveticanin, L. A new approach for solving a complex-valued differential equation. (English summary) **2005g:70042**

Items with secondary classifications in 70K60

Abd EL-Latif, G. M. On a problem of modified Lindstedt-Poincaré for certain strongly non-linear oscillators. (English summary) **2005e:34110**
Calvo Pinilla, M. Backward error analysis of numerical methods for ODEs and Lie-Hori perturbation theory. (English summary) **2005k:65116**
Chan, Chuen Lit *see* **Chung, K. W. et al.**
Chatterjee, Anindya *see* **Das, S. L., 2005k:34312**
Chung, K. W. (*with* Chan, Chuen Lit; Xu, Zhao; Xu, Jian[2]) A perturbation-incremental method for strongly non-linear non-autonomous oscillators. (English summary)
Das, S. L. (*with* Chatterjee, Anindya) Second order multiple scales for oscillators with large delay. (English summary) **2005k:34312**
van Horssen, Wim T. On oscillations in a system with a piecewise smooth coefficient (English summary) **2005k:34128**
Kossenko, I. I. On preservation of conditionally-periodic satellite librations in elliptic orbit with account of solar light pressure. (English summary) **2005c:70030**
Mickens, Ronald E. (*with* Rucker, Sandra A.) A perturbation method for truly nonlinear oscillator differential equations. (*see* **2005i:00016**)
Rucker, Sandra A. *see* **Mickens, Ronald E.,** (2005i:00016)
Xu, Jian[2] *see* **Chung, K. W. et al.**
Xu, Zhao *see* **Chung, K. W. et al.**

70K65 Averaging of perturbations

Chatterjee, Anindya *see* **Nandakumar, K.**

Nandakumar, K. (*with* Chatterjee, Anindya) The simplest resonance capture problem, using harmonic balance based averaging. (English summary)

Items with secondary classifications in 70K65

Abad, Alberto J. (*with* San-Juan, Juan Félix; Serrano Pastor, Sergio) Zonal model for orbits of satellites around Mars. (Spanish. Spanish summary) (*see* **2005g:70001**)
Deng, M. L. *see* **Zhu, W. Q., 2005e:70025**
Dolgopyat, Dmitry Evolution of adiabatic invariants in stochastic averaging. (English summary) **2005c:34110**
Dumas, H. Scott (*with* Ellison, James A.; Vogt, Mathias) First-order averaging principles for maps with applications to accelerator beam dynamics. (English summary) **2005j:37103**
Ellison, James A. *see* **Dumas, H. Scott et al., 2005j:37103**
Grebenikov, E. A. (*with* Mitropol′skiĭ, Yuriĭ Alekseevich; Ryabov, Yu. A.) ★ Asymptotic methods in resonance analytical dynamics. **2005d:34099**
Iñarrea, Manuel (*with* Lanchares, Víctor; Palacián, Jesús F.; Pascual, Ana I.; Salas, J. Pablo; Yanguas, Patricia) On the dynamics of charged particles around rotating magnetic planets: perturbed Keplerian motions. (English summary) **2005g:70010**
Lanchares, Víctor *see* **Iñarrea, Manuel et al., 2005g:70010**
Martynenko, Yu. G. On the theory of the generalized Magnus effect for nonholonomic mechanical systems. (Russian. Russian summary) **2005k:70039**
Mitropol′skiĭ, Yuriĭ Alekseevich *see* **Grebenikov, E. A. et al., 2005d:34099**
Nayfeh, Ali H. Resolving controversies in the application of the method of multiple scales and the generalized method of averaging. (English summary) **2005m:34121**
Neishtadt, A. I. On averaging in two-frequency systems with small Hamiltonian and much smaller non-Hamiltonian perturbations. (English and Russian summaries) **2005e:37127**
Palacián, Jesús F. *see* **Iñarrea, Manuel et al., 2005g:70010**
Pascual, Ana I. *see* **Iñarrea, Manuel et al., 2005g:70010**
Ryabov, Yu. A. *see* **Grebenikov, E. A. et al., 2005d:34099**
Salas, J. Pablo *see* **Iñarrea, Manuel et al., 2005g:70010**
San-Juan, Juan Félix *see* **Abad, Alberto J. et al., (2005g:70001)**
Serrano Pastor, Sergio *see* **Abad, Alberto J. et al., (2005g:70001)**
Vogt, Mathias *see* **Dumas, H. Scott et al., 2005j:37103**
Yanguas, Patricia *see* **Iñarrea, Manuel et al., 2005g:70010**
Zhu, W. Q. (*with* Deng, M. L.) Optimal bounded control for minimizing the response of quasi-integrable Hamiltonian systems. (English summary) **2005e:70025**

70K70 Systems with slow and fast motions

Items with secondary classifications in 70K70

Bui, Q. V. Energy conserving and dissipative time finite element schemes for N-body stiff problems. (English summary) **2005e:70001**
Féjoz, Jacques Démonstration du 'théorème d'Arnold' sur la stabilité du système planétaire (d'après Herman). (English and French summaries) [Proof of 'Arnol′d's theorem' on the stability of a planetary system (following Herman)] **2005i:37101**

70K75 Nonlinear modes

Zhang, Xin Hua[1] Geodesics, nonlinear normal modes of conservative vibratory systems and decomposition method. (English summary) **2005m:70080**

Items with secondary classifications in 70K75

Gendelman, Oleg V. Bifurcations of nonlinear normal modes of linear oscillator with strongly nonlinear damped attachment. (English summary) **2005e:70033**
— (*with* Lamarque, Claude-Henri) Dynamics of linear oscillator coupled to strongly nonlinear attachment with multiple states of equilibrium. (English summary) **2005j:70051**
Lamarque, Claude-Henri *see* **Gendelman, Oleg V., 2005j:70051**

70K99 None of the above, but in this section

Awrejcewicz, Jan (*with* Kudra, Grzegorz; Lamarque, Claude-Henri) Investigation of triple pendulum with impacts using fundamental solution matrices. (English summary)
Balthazar, José Manoel (*with* Felix, Jorge L. Palacios; Brasil, R. M. L. R. F.) Some comments on the numerical simulation of self-synchronization of four non-ideal exciters. (English summary)
Bolognani, Yng *see* **Morishita, Helio Mitio**
Brasil, R. M. L. R. F. *see* **Balthazar, José Manoel et al.**
Cooley, Bryan B. (*with* Newton, Paul K.) Random number generation from chaotic impact collisions. (English summary) **2005f:70032**
Cveticanin, L. Vibrations of the nonlinear oscillator with quadratic nonlinearity. (English summary)
Elyutin, P. V. Gibbs attractor: a chaotic nearly Hamiltonian system, driven by external harmonic force. (English summary) **2005g:70043**
Felix, Jorge L. Palacios *see* **Balthazar, José Manoel et al.**
Fernandes, Claudio Gomes *see* **de Souza, Jessé Rebello, Junior**
Haaker, T. I. *see* **Lumbantobing, H.**
Kudra, Grzegorz *see* **Awrejcewicz, Jan et al.**
Lamarque, Claude-Henri *see* **Awrejcewicz, Jan et al.**
Lumbantobing, H. (*with* Haaker, T. I.) Aeroelastic oscillations of a seesaw-type oscillator under strong wind conditions. (English summary)
Luo, Albert C. J. On the symmetry of solutions in non-smooth dynamical systems with two constraints. (English summary) **2005g:70044**
Malashin, A. A. *see* **Zvyagin, A. V.**
Mease, K. D. Multiple time-scales in nonlinear flight mechanics: diagnosis and modeling. (English summary) **2005m:70081**
Miles, John On resonant rotation of a weakly damped pendulum. (English summary)
Morishita, Helio Mitio (*with* Bolognani, Yng) Dynamics and control of a two-body floating system under realistic environmental loads. (English summary)
Newton, Paul K. *see* **Cooley, Bryan B., 2005f:70032**
Petrov, A. G. *see* **Zaripov, M. N., 2005k:70047**
de Souza, Jessé Rebello, Junior (*with* Fernandes, Claudio Gomes) Nonlinear dynamics of an archetypal model of ships' motions in tandem. (English summary)
Zaripov, M. N. (*with* Petrov, A. G.) Nonlinear oscillations of a swinging spring. (Russian) **2005k:70047**
Zvyagin, A. V. (*with* Malashin, A. A.) Formulation and solution of the problem of the dynamics of a bow. (Russian)

Items with secondary classifications in 70K99

Adli, Mehmet Arif *see* **Doğruel, M., 2005k:93129**
Aifantis, E. C. *see* **Kevrekidis, Panayotis G. et al.**
Akulenko, L. D. Optimal control of the motions of a bifilar pendulum. (Russian. Russian summary) **2005i:70059**
Balthazar, José Manoel (*with* Brasil, R. M. L. R. F.; Weber, Hans Ingo; Fenili, A.; Belato, Débora; Felix, Jorge L. Palacios; Garzelli, F. J.) A review of new vibration issues due to non-ideal energy sources. (English summary) (*see* **2005b:93006**)
Belato, Débora *see* **Balthazar, José Manoel et al., (2005b:93006)**
Bishop, Alan R. *see* **Kevrekidis, Panayotis G. et al.**
Blekhman, I. I. (*with* Yaroshevich, N. P.) On the extension of the domain of applicability of the integral criterion (the extremal property) for stability in synchronization problems. (Russian. Russian summary) **2005k:70045**
Bountis, Tassos *see* **Mahmoud, Gamal M., 2005h:34098**
Brasil, R. M. L. R. F. *see* **Balthazar, José Manoel et al., (2005b:93006)**
Bruschi, Mario (*with* Calogero, Francesco) Integrable systems of quartic oscillators. II. (English summary) **2005d:37118**
Calogero, Francesco A technique to identify solvable dynamical systems, and another solvable extension of the goldfish many-body problem. (English summary) **2005k:70030**
— *see also* **Bruschi, Mario, 2005d:37118**
Cruz-Hernández, C. *see* **López-Mancilla, D., 2005m:37216**
Dmitriev, S. V. *see* **Kevrekidis, Panayotis G. et al.**
Doğruel, M. (*with* Adli, Mehmet Arif) Hybrid state approach for modelling electrical and mechanical systems. (English summary) **2005k:93129**
El-Bassiouny, A. F. Effect of non-linearities in elastomeric material dampers on torsional oscillation control. (English summary)
Felix, Jorge L. Palacios *see* **Balthazar, José Manoel et al., (2005b:93006)**
Fenili, A. *see* **Balthazar, José Manoel et al., (2005b:93006)**
Flashner, Henryk (*with* Golat, Michael) Expanded point mapping analysis of periodic systems. (English summary) (*see* **2005b:93006**)
Garzelli, F. J. *see* **Balthazar, José Manoel et al., (2005b:93006)**
Golat, Michael *see* **Flashner, Henryk, (2005b:93006)**
Kevrekidis, Panayotis G. (*with* Dmitriev, S. V.; Takeno, Shozo; Bishop, Alan R.; Aifantis, E. C.) Rich example of geometrically induced nonlinearity: from rotobreathers and kinks to moving localized modes and resonant energy transfer. (English summary)
Labovskaya, Alevtina *see* **Labovskiĭ, Sergeĭ, (2005c:00020)**
Labovskiĭ, Sergeĭ (*with* Labovskaya, Alevtina) A functional-differential equation of mechanical oscillations. (Russian) (*see* **2005c:00020**)
Leonard, Naomi Ehrich *see* **Sepulchre, Rodolphe et al., 2005h:37062**
López-Mancilla, D. (*with* Cruz-Hernández, C.) Output synchronization of chaotic systems: model-matching approach with application to secure communication. (English summary) **2005m:37216**
Lumbantobing, H. On the aeroelastic oscillations of a double seesaw oscillator: the 1 : 2 internal resonant case. (English summary) **2005h:34085**
Mahmoud, Gamal M. (*with* Bountis, Tassos) The dynamics of systems of complex nonlinear oscillators: a review. (English summary) **2005h:34098**
Mickens, Ronald E. (*with* Oyedeji, Kale; Rucker, Sandra A.) Preliminary analytical and numerical investigations of a van der Pol type oscillator having discontinuous dependence on the velocity. **2005i:34047**
Morishita, Helio Mitio (*with* de Souza, Jessé Rebello, Junior) Dynamical features of an autonomous two-body floating system. (English summary) **2005d:34098**
Oyedeji, Kale *see* **Mickens, Ronald E. et al., 2005i:34047**
Paley, Derek *see* **Sepulchre, Rodolphe et al., 2005h:37062**
Paoli, Laetitia Problèmes de vibro-impact: étude de la dépendance par rapport aux données. (English and French summaries) [Vibro-impact problems: study of dependence on the data] **2005f:34024**
Rucker, Sandra A. *see* **Mickens, Ronald E. et al., 2005i:34047**
Sepulchre, Rodolphe (*with* Paley, Derek; Leonard, Naomi Ehrich) Collective motion and oscillator synchronization. (English summary) **2005h:37062**
Shamolin, M. V. Geometric representation of motion in a problem of the interaction of a body with a medium. (Russian. English and Ukrainian summaries) **2005m:70050**
de Souza, Jessé Rebello, Junior *see* **Morishita, Helio Mitio, 2005d:34098**
Takeno, Shozo *see* **Kevrekidis, Panayotis G. et al.**
Weber, Hans Ingo *see* **Balthazar, José Manoel et al., (2005b:93006)**
Yaroshevich, N. P. *see* **Blekhman, I. I., 2005k:70045**

70L05 Random vibrations [see also 74H50]

Iwankiewicz, R. (*with* Nielsen, S. R. K.; Larsen, J. W.) Stochastic stability of mechanical systems under renewal jump process parametric excitation. (English summary) **2005k:70048**
Krenk, Steen *see* **Rüdinger, Finn, 2005e:70036**
Labou, M. Stochastic stability of parametrically excited random systems. (English and Ukrainian summaries)
— First-passage probabilities for randomly excited mechanical systems by a selective Monte Carlo simulation method. (English and Ukrainian summaries)
Larsen, J. W. *see* **Iwankiewicz, R. et al., 2005k:70048**
Nielsen, S. R. K. *see* **Iwankiewicz, R. et al., 2005k:70048**
Ramakrishnan, Narayanan *see* **Sri Namachchivaya, N., 2005b:70029**
Roy, Debasish A family of lower- and higher-order transversal linearization techniques in non-linear stochastic engineering dynamics. (English summary) **2005c:70027**

Rüdinger, Finn (*with* Krenk, Steen) Identification of nonlinear oscillator with parametric white noise excitation. (English summary) **2005e:70036**
So, Ronald M. C. *see* **Xie, Wei-Chau**
Sri Namachchivaya, N. (*with* Ramakrishnan, Narayanan) Stochastic dynamics of parametrically excited two d.o.f. systems with symmetry. (English summary) **2005b:70029**
— (*with* Van Roessel, Henry J.) Stochastic stability of coupled oscillators in resonance: a perturbation approach. (English summary) **2005i:70058**
Van Roessel, Henry J. *see* **Sri Namachchivaya, N., 2005i:70058**
Xie, Wei-Chau (*with* So, Ronald M. C.) Parametric resonance of a two-dimensional system under bounded noise excitation. (English summary)
— Monte Carlo simulation of moment Lyapunov exponents. (English summary) **2005m:70082**
Zhu, W. Q. Lyapunov exponent and stochastic stability of quasi-non-integrable Hamiltonian systems. (English summary) **2005a:70030**

Items with secondary classifications in 70L05

Arnold, Ludwig (*with* Chueshov, Igor D.; Ochs, Gunter) Stability and capsizing of ships in random sea—a survey. (English summary) **2005g:76022**
— (*with* Chueshov, Igor D.; Ochs, Gunter) Random dynamical systems methods in ship stability: a case study. (English summary) **2005k:34216**
Bernardin, Frédéric (*with* Schatzman, Michelle; Lamarque, Claude-Henri) Second-order multivalued stochastic differential equations on Riemannian manifolds. (English summary) **2005g:58063**
Chueshov, Igor D. *see* **Arnold, Ludwig et al., 2005g:76022** *and* **2005k:34216**
Ciccotti, Giovanni (*with* Kalibaeva, Galina) Deterministic and stochastic algorithms for mechanical systems under constraints. (English summary) **2005c:70015**
Davies, Huw G. Slow sinusoidal modulation through bifurcations: the effect of additive noise. (English summary)
Deng, M. L. *see* **Zhu, W. Q., 2005e:70025**
Dimentberg, M. F. (*with* Iourtchenko, D. V.) Random vibrations with impacts: a review. (English summary) **2005c:74038**
Fang, Tong *see* **He, Qun et al., 2005e:34115**
Gan, Chunbiao Stochastic Hopf bifurcation in quasi-integrable-Hamiltonian systems. (English summary)
Grigoriu, Mircea Dynamic systems with Poisson white noise. (English summary) **2005h:60201**
Guo, Yong Xin *see* **Luo, Shao Kai et al.**
He, Qun (*with* Xu, Wei[3]; Rong, Hai Wu; Fang, Tong) Stochastic bifurcation in Duffing-Van der Pol oscillators. (English summary) **2005e:34115**
Huang, Zhi Long *see* **Zhu, W. Q., 2005d:93146**
Iourtchenko, D. V. *see* **Dimentberg, M. F., 2005c:74038**
Kalibaeva, Galina *see* **Ciccotti, Giovanni, 2005c:70015**
Khasminskii, R. Z. (*with* Mil′shteĭn, G. N.) Stability of gyroscopic systems under small random excitations. (English summary) **2005g:60095**
Lamarque, Claude-Henri *see* **Bernardin, Frédéric et al., 2005g:58063**
Liew, K. M. (*with* Liu, Xian Bin) The maximal Lyapunov exponent for a three-dimensional stochastic system. (English summary) **2005f:93172**
Liu, Xian Bin *see* **Liew, K. M., 2005f:93172**
Luo, Shao Kai (*with* Guo, Yong Xin; Mei, Feng Xiang) Form invariance and Hojman conserved quantity for nonholonomic mechanical systems. (Chinese. English and Chinese summaries)
Mei, Feng Xiang *see* **Luo, Shao Kai et al.**
Mil′shteĭn, G. N. *see* **Khasminskii, R. Z., 2005g:60095**
Ochs, Gunter *see* **Arnold, Ludwig et al., 2005g:76022** *and* **2005k:34216**
Rong, Hai Wu *see* **He, Qun et al., 2005e:34115**
Schatzman, Michelle *see* **Bernardin, Frédéric et al., 2005g:58063**
Xu, Wei[3] *see* **He, Qun et al., 2005e:34115**
Ying, Z. G. Generalized Hamiltonian norm, Lyapunov exponent and stochastic stability for quasi-Hamiltonian systems. (English summary) **2005i:70038**
Zhu, W. Q. (*with* Huang, Zhi Long) Stochastic stabilization of quasi non-integrable Hamiltonian systems. (English summary) **2005d:93146**
— (*with* Deng, M. L.) Optimal bounded control for minimizing the response of quasi-integrable Hamiltonian systems. (English summary) **2005e:70025**

70M20 Orbital mechanics

Abad, Alberto J. (*with* San-Juan, Juan Félix; Serrano Pastor, Sergio) Zonal model for orbits of satellites around Mars. (Spanish. Spanish summary) (*see* **2005g:70001**)
Abd El-Salam, F. A. (*with* Sehnal, L.) A second order analytical atmospheric drag theory based on the TD88 thermospheric density model. (English summary) **2005h:70024**
— (*with* Ahmed, Mostafa Kamal Mahmoud; Radwan, M.) The post-Newtonian effects in the critical inclination problem in artificial satellite theory. (English summary) **2005h:70025**
— (*with* Ahmed, Mostafa Kamal Mahmoud) Canonical solution of the critical inclination problem taking into account PN-corrections. (English summary) **2005h:70026**
— (*with* Sehnal, L.) The effects of the terrestrial infrared radiation pressure on the earth's artificial satellite dynamics. (English summary)
Ahmed, Mostafa Kamal Mahmoud *see* **Abd El-Salam, F. A. et al., 2005h:70025** *and* **2005h:70026**
Andrés, Y. N. (*with* Pelaez, Jesus) Stability of electrodynamic tethers in inclined elliptical orbit. (Spanish. Spanish summary) **2005g:70045**
Bardin, B. S. On orbital stability of planar motions of symmetric satellites in cases of first and second order resonances. (English summary) **2005g:70046**
Bernelli-Zazzera, Franco *see* **Vasile, Massimiliano, 2005c:70032**
Biswas, Kalyan Kumar *see* **Jeyakumar, D. et al.**
Blatov, I. A. (*with* Gorelov, Yu. N.; Manturov, A. I.; Permyakov, A. V.) Formation of the attainability set for the kinematic characteristics of angular motion of a spacecraft in problems of remote sounding of the Earth. (Russian. English and Russian summaries)
Blesa, F. (*with* Elipe Sánchez, Antonio C.; Lara, Martín) Quasi-geostationary and quasi-periodic orbits with control. (Spanish. Spanish summary) (*see* **2005g:70001**)
Breiter, Sławomir (*with* Métris, Gilles; Vokrouhlický, David) Generalized Hansen coefficients. (English summary) **2005a:70031**
Cefola, Paul J. *see* **Draim, John E. et al., 2005c:70029**
Chaĭkin, S. V. Stability of a family of nontrivial equilibrium orientations to the attracting center of a gyrostat with an elastic rod. (Russian. Russian summary) **2005k:70049**
Chen, Jie[1] (*with* Zhou, Yinqing; Li, Chun Sheng[2]) Formation flying orbit design for the distributed synthetic aperture radar satellite. (English summary)
Cho, Sangbum (*with* McClamroch, N. Harris) Optimal orbit transfer of a spacecraft with fixed length tether. (English summary) **2005c:70028**
Ciarcià, M. *see* **Miele, Angelo et al., 2005g:70047**
Cicci, D. A. *see* **Rossi, E. V. et al., 2005b:70031**
Cochran, J. E., Jr. *see* **Rossi, E. V. et al., 2005b:70031**
Coverstone, Victoria L. *see* **Woo, Byoungsam**
Dahlke, Scott *see* **Vergez, Paul et al., 2005m:70087**
Draim, John E. (*with* Cefola, Paul J.; Proulx, Ronald J.; Larsen, Duane; Granholm, George) Elliptical sun-synchronous orbits with line of apsides lying in or near the equatorial plane. (English summary) **2005c:70029**
Elipe Sánchez, Antonio C. *see* **Blesa, F. et al., (2005g:70001)**
Ghaffari-Saadat, Mohammad H. *see* **Shirazi, Kourosh H., 2005j:70054**
Gorelov, Yu. N. *see* **Blatov, I. A. et al.**
Goto, Norihiro (*with* Kawakita, Takashi) Bifurcation analysis for the inertial coupling problem of a reentry vehicle. (English summary) (*see* **2005c:93005**)
Granholm, George *see* **Draim, John E. et al., 2005c:70029**
Guerman, A. *see* **Sarychev, V. A. et al., 2005a:70032**
Hechler, M. (*with* Langevin, Y.; Yáñez, A.) Mars express orbit design evolution. (English summary) **2005h:70027**
Higuchi, Ken *see* **Takeichi, Noboru et al.**
Howell, K. C. (*with* Marchand, B. G.) Natural and non-natural spacecraft formations near the L_1 and L_2 libration points in the Sun-Earth/Moon ephemeris system. (English summary) **2005h:70028**
Jeyakumar, D. (*with* Biswas, Kalyan Kumar; Rao, Boggarapu Nageswara) Stage separation dynamic analysis of upper stage of a multistage launch vehicle using retro rockets. (English summary)
Kawakita, Takashi *see* **Goto, Norihiro, (2005c:93005)**
Kholostova, O. V. Periodic motions of a nearly dynamically symmetric satellite in a neighborhood of a conical precession. (Russian. Russian summary) **2005e:70037**
Koon, Wang S. *see* **Serban, Radu et al., 2005m:70084**
Kosenko, I. I. A computational model of shock interactions in an orbital tethered system. II. (Russian. English and Russian summaries) (*see* **2005c:70001**)
Kossenko, I. I. On preservation of conditionally-periodic satellite librations in elliptic orbit with account of solar light pressure. (English summary) **2005c:70030**
Kuang, Jin Lu (*with* Leung, Andrew Y. T.; Tan, Soonhie) Hamiltonian and chaotic attitude dynamics of an orbiting gyrostat satellite under gravity-gradient torques. (English summary) **2005e:70038**
Kutsenko, I. A. *see* **Volosov, V. V. et al., 2005g:70048**
Langevin, Y. *see* **Hechler, M. et al., 2005h:70027**
Lara, Martín *see* **Blesa, F. et al., (2005g:70001)**
Larsen, Duane *see* **Draim, John E. et al., 2005c:70029**
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Li, Chun Sheng[2] *see* **Chen, Jie[1] et al.**
Lo, Martin W. *see* **Serban, Radu et al., 2005m:70084**
Mancuso, S. *see* **Miele, Angelo et al., 2005b:70030**
Manturov, A. I. *see* **Blatov, I. A. et al.**
Marchand, B. G. *see* **Howell, K. C., 2005h:70028**
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Mathwig, J. *see* **Miele, Angelo et al., 2005g:70047**
McClamroch, N. Harris *see* **Cho, Sangbum, 2005c:70028**
Métris, Gilles *see* **Breiter, Sławomir et al., 2005a:70031**
Miele, Angelo On feasibility of interplanetary travel: the flight from earth to mars and back. (English summary) (*see* **2005a:00024**)
— (*with* Wang, Tong[2]; Mancuso, S.) Optimal round-trip Earth-Mars trajectories for robotic flight and manned flight. (English summary) **2005b:70030**
— (*with* Ciarcià, M.; Mathwig, J.) Reflections on the Hohmann transfer. (English summary) **2005g:70047**
Miller, James K. *see* **Weeks, Connie, 2005m:70088**
Natori, M. C. *see* **Takeichi, Noboru et al.**
Okuizumi, Nobukatsu *see* **Takeichi, Noboru et al.**
O'Reilly, Oliver M. (*with* Tan, Meng How) Steady motions of an axisymmetric satellite: an atlas of their bifurcations. (English summary) **2005f:70033**
Paglione, P. *see* **Sarychev, V. A. et al., 2005a:70032**
Pelaez, Jesus *see* **Andrés, Y. N., 2005g:70045**
Permyakov, A. V. *see* **Blatov, I. A. et al.**
Petzold, Linda R. *see* **Serban, Radu et al., 2005m:70084**
Popadinets, V. I. *see* **Volosov, V. V. et al., 2005g:70048**
Prado, Antonio F. Bertachini A. Bi-impulsive control to build a satellite constellation (English summary) **2005m:70083**
Proulx, Ronald J. *see* **Draim, John E. et al., 2005c:70029**
Quadrelli, Marco B. Dynamics and control of novel orbiting formations with internal dynamics. (English summary) **2005e:70039**
— Effect of distributed rod and string flexibility on formation dynamic stability. English summary) **2005c:70031**
Radwan, M. *see* **Abd El-Salam, F. A. et al., 2005h:70025**
Rao, Boggarapu Nageswara *see* **Jeyakumar, D. et al.**
Ross, Shane D. *see* **Serban, Radu et al., 2005m:70084**
Rossi, E. V. (*with* Cicci, D. A.; Cochran, J. E., Jr.) Existence of periodic motions of a tether trailing satellite. (English summary) **2005b:70031**
San-Juan, Juan Félix *see* **Abad, Alberto J. et al., (2005g:70001)**
Sarychev, V. A. (*with* Guerman, A.; Paglione, P.) Influence of constant torque on equilibria of satellite in circular orbit. (English summary) **2005a:70032**
Sauter, Luke *see* **Vergez, Paul et al., 2005m:70087**

Sehnal, L. *see* **Abd El-Salam, F. A., 2005h:70024**
Serban, Radu (*with* Koon, Wang S.; Lo, Martin W.; Marsden, Jerrold E.; Petzold, Linda R.; Ross, Shane D.; Wilson, Roby S.) Halo orbit mission correction maneuvers using optimal control. (English summary) **2005m:70084**
Serrano Pastor, Sergio *see* **Abad, Alberto J. et al., (2005g:70001)**
Shirazi, Kourosh H. (*with* Ghaffari-Saadat, Mohammad H.) Bifurcation and chaos in an apparent-type gyrostat satellite. (English summary) **2005j:70054**
Shuster, Malcolm D. Deterministic three-axis attitude determination. (English summary) **2005m:70085**
Steindl, A. (*with* Troger, H.) Is the sky-hook configuration stable? (English summary) **2005m:70086**
Takeichi, Noboru (*with* Natori, M. C.; Okuizumi, Nobukatsu; Higuchi, Ken) Periodic solutions and controls of tethered systems in elliptic orbits. (English summary)
Tan, Meng How *see* **O'Reilly, Oliver M., 2005f:70033**
Tan, Soonhie *see* **Kuang, Jin Lu et al., 2005e:70038**
Troger, H. *see* **Steindl, A., 2005m:70086**
Tsuchiya, Kazuo *see* **Urakubo, Takateru et al.**
Tsujita, Katsuyoshi *see* **Urakubo, Takateru et al.**
Urakubo, Takateru (*with* Tsuchiya, Kazuo; Tsujita, Katsuyoshi) Attitude control of a spacecraft with two reaction wheels. (English summary)
Vasile, Massimiliano (*with* Bernelli-Zazzera, Franco) Optimizing low-thrust and gravity assist maneuvers to design interplanetary trajectories. (English summary) **2005c:70032**
Vergez, Paul (*with* Sauter, Luke; Dahlke, Scott) An improved Kalman filter for satellite orbit predictions. (English summary) **2005m:70087**
Vokrouhlický, David *see* **Breiter, Sławomir et al., 2005a:70031**
Volosov, V. V. (*with* Kutsenko, I. A.; Popadinets, V. I.) Mathematical models of the rotational motion of spacecraft with redundant systems of gyrodines and flywheels, and problems of attitude control. I. (Russian. English, Russian and Ukrainian summaries) **2005g:70048**
Wang, Tong[2] *see* **Miele, Angelo et al., 2005b:70030**
Weeks, Connie (*with* Miller, James K.) A gravity model for navigation close to asteroids and comets. (English summary) **2005m:70088**
Wilson, Roby S. *see* **Serban, Radu et al., 2005m:70084**
Woo, Byoungsam (*with* Coverstone, Victoria L.) Orbit transfers to lower altitude orbits using aerobraking. (English summary)
Yagasaki, Kazuyuki Sun-perturbed Earth-to-Moon transfers with low energy and moderate flight time. (English summary) **2005j:70055**
— Computation of low energy Earth-to-Moon transfer with moderate flight time. (English summary) **2005f:70034**
Yáñez, A. *see* **Hechler, M. et al., 2005h:70027**
Zhou, Yinqing *see* **Chen, Jie[1] et al.**

Items with secondary classifications in 70M20

Abad, Alberto J. *see* **San-Juan, Juan Félix, (2005c:00014)**
Ahn, Hyo-Sung *see* **Won, Chang-Hee, 2005g:49068**
Aslanov, V. S. (*with* Doroshin, A. V.) The motion of a system of coaxial bodies of variable mass. (Russian. Russian summary) **2005j:70011**
Astolfi, Alessandro *see* **Lovera, Marco, 2005f:93071**
Bajodah, Abdulrahman H. (*with* Hodges, Dewey H.; Chen, Ye-Hwa) Inverse dynamics of servo-constraints based on the generalized inverse. (English summary) **2005j:70056**
Beard, Randal W. *see* **Lawton, Jonathan R.**
Berry, Matthew M. (*with* Healy, Liam M.) Implementation of Gauss-Jackson integration for orbit propagation. (English summary) **2005m:70003**
Bonnard, Bernard (*with* Jabeur, Mohamed; Janin, Gabriel) Control of mechanical systems from aerospace engineering. **2005m:93101**
— (*with* Faubourg, Ludovic; Trélat, Emmanuel) Optimal control of the atmospheric arc of a space shuttle and numerical simulations with multiple-shooting method. (English summary) **2005k:49111**
Burgos, Melissa *see* **Gidea, Marian, 2005c:70010**
Casalino, Lorenzo (*with* Colasurdo, Guido) Optimal control of a grey solar sail for interplanetary missions. (English summary) **2005h:49094**
Cendra, Hernán (*with* Marsden, Jerrold E.) Geometric mechanics and the dynamics of asteroid pairs. (English summary) **2005j:70023**
Chang, Dong Eui (*with* Marsden, Jerrold E.) Geometric derivation of the Delaunay variables and geometric phases. (English summary) **2005f:70013**
Chen, Ye-Hwa *see* **Bajodah, Abdulrahman H. et al., 2005j:70056**
Choukri, S. *see* **Kailil, A. et al., 2005e:93105**
Colasurdo, Guido *see* **Casalino, Lorenzo, 2005h:49094**
Denisenko, V. I. *see* **Kayuk, Ya. F.**
Di Gennaro, S. Output attitude tracking for flexible spacecraft. (English summary)
Doroshin, A. V. *see* **Aslanov, V. S., 2005j:70011**
Druzhinin, È. I. *see* **Voronov, V. A., 2005d:93100**
El Alami, Noureddine *see* **Kailil, A. et al., 2005e:93105**
El-Gohary, Awad I. Optimal control of a programmed motion of a rigid spacecraft using redundant kinematics parameterizations. (English summary)
Faubourg, Ludovic *see* **Bonnard, Bernard et al., 2005k:49111**
Gabriel, S. B. *see* **Pongvthithum, R. et al.**
Ge, Shuzhi Sam (*with* Lee, Tong Heng; Hong, Fan[2]; Goh, Cher Hiang) Energy-based robust controller design for flexible spacecraft. (English summary)
Gidea, Marian (*with* Burgos, Melissa) Chaotic transfers in three- and four-body systems. (English summary) **2005c:70010**
Goh, Cher Hiang *see* **Ge, Shuzhi Sam et al.**
Gusarin, S. A. (*with* Pogorelov, V. A.) Solution of the problem of the navigation of a moving plant with a parametrically uncertain state vector. (Russian. Russian summary) **2005h:93110**
Guzmán, José J. Tetrahedron formation control. (English summary) **2005h:49096**
Hadaegh, F. Y. *see* **Kim, Yoonsoo et al., 2005e:49077**
Healy, Liam M. *see* **Berry, Matthew M., 2005m:70003**
Hodges, Dewey H. *see* **Bajodah, Abdulrahman H. et al., 2005j:70056**
Hong, Fan[2] *see* **Ge, Shuzhi Sam et al.**
Izzo, D. (*with* Valente, Chiara) A globally stable Lyapunov non linear controller for the attitude of a platform equipped with a system of actuating gyroscopes. (English summary) (*see* **2005c:00016**)
Jabeur, Mohamed *see* **Bonnard, Bernard et al., 2005m:93101**
Janin, Gabriel *see* **Bonnard, Bernard et al., 2005m:93101**
Kailil, A. (*with* Mrani, N.; Mliha Touati, M.; Choukri, S.; El Alami, Noureddine) Low earth-orbit satellite attitude stabilization with fractional regulators. (English summary) **2005e:93105**
Kapila, Vikram *see* **Wong, Hong et al., (2005c:93005)**
Kayuk, Ya. F. (*with* Denisenko, V. I.) Motion of a mechanical system with variable mass-inertia characteristics. (Russian. English and Ukrainian summaries)
Kiforenko, B. N. Some problems of modeling and optimization in the mechanics of space flight. (Russian. English and Ukrainian summaries)
Kim, Yoonsoo (*with* Mesbahi, Mehran; Hadaegh, F. Y.) Multiple-spacecraft reconfiguration through collision avoidance, bouncing, and stalemate. (English summary) **2005e:49077**
Kirichenko, N. F. (*with* Matvienko, V. T.) Algorithms for the asymptotic, terminal, and adaptive stabilization of the rotational motions of a rigid body. (Russian. English, Russian and Ukrainian summaries) **2005g:70050**
Krishchenko, A. P. *see* **Velishchanskiĭ, M. A. et al.**
Lawton, Jonathan R. (*with* Beard, Randal W.) Synchronized multiple spacecraft rotations. (English summary)
Lee, Tong Heng *see* **Ge, Shuzhi Sam et al.**
Leutin, A. P. Extremal property of the constraint reactions of systems of coupled bodies. (Russian. Russian summary) **2005h:70005**
Lovera, Marco (*with* Astolfi, Alessandro) Global spacecraft attitude control using magnetic actuators. (English summary) **2005f:93071**
Markley, F. Landis *see* **Shuster, Malcolm D., 2005c:70002**
Marsden, Jerrold E. *see* **Chang, Dong Eui, 2005f:70013** *and* **Cendra, Hernán, 2005j:70023**
Matvienko, V. T. *see* **Kirichenko, N. F., 2005g:70050**
Matyukhin, V. I. Stabilization of the motions of a descent vehicle in the upper layers of the atmosphere. (Russian. Russian summary) **2005f:93150**
Mesbahi, Mehran *see* **Kim, Yoonsoo et al., 2005e:49077**
Mitchell, Jason William *see* **Richardson, D. L., 2005c:70014**
Mliha Touati, M. *see* **Kailil, A. et al., 2005e:93105**
Mrani, N. *see* **Kailil, A. et al., 2005e:93105**
Nadjafov, Tofik I. A problem on periodic trajectories of circular dynamic billiard and its applications. (English summary)
(Palacián, Jesús F.) *see* **Proceedings: Conference on Celestial Mechanics, 6th, 2005g:70001**
Pan, Haizhou *see* **Wong, Hong et al., (2005c:93005)**
Pogorelov, V. A. *see* **Gusarin, S. A., 2005h:93110**
Pongvthithum, R. (*with* Veres, S. M.; Gabriel, S. B.; Rogers, Eric) Universal adaptive control of satellite formation flying. (English summary)
de Queiroz, Marcio Santos *see* **Wong, Hong et al., (2005c:93005)**
Richardson, D. L. (*with* Mitchell, Jason William) A third-order analytical solution for relative motion with a circular reference orbit. (English summary) **2005c:70014**
Rogers, Eric *see* **Pongvthithum, R. et al.**
San-Juan, Juan Félix (*with* Abad, Alberto J.) Symbolic solution of Kepler's generalized equation. (English summary) (*see* **2005c:00014**)
Shuster, Malcolm D. (*with* Markley, F. Landis) Generalization of the Euler angles. (English summary) **2005c:70002**
Sirotin, A. N. On the problem of reorientation, optimal with respect to power consumption, with simultaneous braking of a spherically symmetric body over unspecified time. (Russian. Russian summary) **2005j:70057**
Tkachev, S. B. *see* **Velishchanskiĭ, M. A. et al.**
Trélat, Emmanuel *see* **Bonnard, Bernard et al., 2005k:49111**
Valente, Chiara *see* **Izzo, D., (2005c:00016)**
Velishchanskiĭ, M. A. (*with* Krishchenko, A. P.; Tkachev, S. B.) Quasi-optimal reorientation of a spacecraft. (Russian. Russian summary)
Veres, S. M. *see* **Pongvthithum, R. et al.**
Voronov, V. A. (*with* Druzhinin, È. I.) The problem of the programmed control of a spacecraft as a nonlinear boundary value problem in state space. (Russian. Russian summary) **2005d:93100**
Won, Chang-Hee (*with* Ahn, Hyo-Sung) Nonlinear orbital dynamic equations and state-dependent Riccati equation control of formation flying satellites. (English summary) **2005g:49068**
Wong, Hong (*with* Pan, Haizhou; de Queiroz, Marcio Santos; Kapila, Vikram) Adaptive learning control for spacecraft formation flying. (English summary) (*see* **2005c:93005**)
(Yanguas, Patricia) *see* **Proceedings: Conference on Celestial Mechanics, 6th, 2005g:70001**

Items listed otherwise than by author

Proceedings:
Conference on Celestial Mechanics, 6th ★ Actas de las VI Jornadas de Mecánica Celeste. [Proceedings of the 6th Conference on Celestial Mechanics] **2005g:70001**
Señorío de Bértiz ★ Actas de las VI Jornadas de Mecánica Celeste. [Proceedings of the 6th Conference on Celestial Mechanics] **2005g:70001**

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Denisenko, V. I. *see* **Kayuk, Ya. F.**
Fang, Jian Hui (*with* Zhang, Peng Yu) The conserved quantity of Hojman for mechanical systems with variable mass in phase space. (Chinese. English and Chinese summaries)
Kayuk, Ya. F. (*with* Denisenko, V. I.) Motion of a mechanical system with variable mass-inertia characteristics. (Russian. English and Ukrainian summaries)
Zhang, Peng Yu *see* **Fang, Jian Hui**

Items with secondary classifications in 70P05

Andrade, Manuel (*with* Docobo, J. A.) Stability in triple star systems with mass loss. (Spanish. Spanish summary) **2005h:70011**

Aslanov, V. S. (*with* Doroshin, A. V.) The motion of a system of coaxial bodies of variable mass. (Russian. Russian summary) **2005j:70011**
Barrera, L. A. *see* **López Laurrabaquio, G. et al., 2005h:70018**
Berkovich, Lev M. (*with* Starinova, O. L.) The Gylden-Meshcherskiĭ problem: trajectories of motion. (Russian. English and Russian summaries) **2005j:70022**
Chen, Pei Sheng *see* **Fang, Jian Hui et al., 2005k:70038**
Docobo, J. A. *see* **Andrade, Manuel, 2005h:70011**
Doroshin, A. V. *see* **Aslanov, V. S., 2005j:70011**
Fang, Jian Hui (*with* Liao, Yong Pan; Zhang, Jun) Non-Noether conserved quantity in a general form for mechanical systems with variable mass. (Chinese. English and Chinese summaries)
— Mei symmetry and Noether symmetry of the relativistic variable mass system. (English summary) **2005a:70022**
— (*with* Chen, Pei Sheng; Zhang, Jun) Form invariance and Lie symmetry of variable mass nonholonomic mechanical system. (Chinese. English and Chinese summaries) **2005k:70038**
— *see also* **Li, Hong**
Garibo, Y. *see* **López Laurrabaquio, G. et al., 2005h:70018**
Hernández, H. *see* **López Laurrabaquio, G. et al., 2005h:70018**
Kovačić, Ivana The generalized Lagrange's equations of the second kind and the field method for their integration. (English and Serbo-Croatian summaries) **2005d:70005**
Kozlov, Valeriĭ V. Dynamics of variable systems, and Lie groups. (Russian. Russian summary) **2005j:70045**
Li, Hong (*with* Fang, Jian Hui) Mei symmetry of variable mass systems with unilateral holonomic constraints. (Chinese. English and Chinese summaries)
Liao, Yong Pan *see* **Fang, Jian Hui et al.**
López Laurrabaquio, G. (*with* Barrera, L. A.; Garibo, Y.; Hernández, H.; Salazar, J. C.; Vargas, C. A.) Constants of motion for several one-dimensional systems and problems associated with getting their Hamiltonians. (English summary) **2005h:70018**
Matyukhin, V. I. Stabilization of the motions of a descent vehicle in the upper layers of the atmosphere. (Russian. Russian summary) **2005f:93150**
Ong, Jeun Jye (*with* O'Reilly, Oliver M.) On the equations of motion for rigid bodies with surface growth. (English summary) **2005f:70012**
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Zhang, Jun *see* **Fang, Jian Hui et al., 2005k:70038**

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Akulenko, L. D. Optimal control of the motions of a bifilar pendulum. (Russian. Russian summary) **2005i:70059**
Alonso, Diego M. (*with* Paolini, Eduardo E.; Moiola, Jorge L.) Global bifurcation analysis of a controlled underactuated mechanical system. (English summary)
Anisimov, V. N. (*with* Kabanov, S. A.) Control of the trajectory of motion of an aircraft around obstacles by the methods of anaytical mechanics. (Russian. Russian summary) **2005m:70089**
Arrowsmith, D. K. *see* **Gutiérrez, Eugenio**
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Bertolazzi, Enrico (*with* Biral, F.; Da Lio, M.) Symbolic-numeric indirect method for solving optimal control problems for large multibody systems. (English summary)
Biral, F. *see* **Bertolazzi, Enrico et al.**
Blajer, Wojciech (*with* Kołodziejczyk, Krzysztof) A geometric approach to solving problems of control constraints: theory and a DAE framework. (English summary) **2005g:70049**
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Bullo, Francesco Trajectory design for mechanical control systems: from geometry to algorithms. (English summary) **2005c:70033**
— (*with* Lewis, Andrew D.) ★ Geometric control of mechanical systems. **2005h:70030**
Chang, Dong Eui *see* **Woolsey, C. A. et al., 2005m:70093**
Chen, Hsin-Yuan *see* **Yang, Chi-Ching, (2005c:93005)**
Chen, Ye-Hwa *see* **Bajodah, Abdulrahman H. et al., 2005j:70056**
Da Lio, M. *see* **Bertolazzi, Enrico et al.**
Duindam, Vincent (*with* Stramigioli, Stefano) Port-based asymptotic curve tracking for mechanical systems. (English summary) **2005k:70050**
El-Gohary, Awad I. (*with* Tawfik, T. S.) Optimal control of the rotational motion of a rigid body using moving masses. (English summary) **2005a:70033**
— New optimal control laws for attitude of a rigid body motion without angular velocity measurements. (English summary)
— Optimal control of rigid body motion with the help of rotors using stereographic coordinates. (English summary) **2005m:70090**
— Optimal control of a programmed motion of a rigid spacecraft using redundant kinematics parameterizations. (English summary)
— Optimal control of the rotational motion of a rigid body using Euler parameters with the help of rotor system. (English summary) **2005i:70060**
Enge, Olaf (*with* Maißer, Peter) Modelling electromechanical systems with electrical switching components using the linear complementarity problem. (English summary) **2005m:70091**
Frangos, C. (*with* Yavin, Y.) Control of the motion of a small-scale car with four steerable wheels. (English summary)
Freire Macías, Emilio *see* **Muñoz-Almaraz, F. J. et al., (2005b:93007)**
Galán-Vioque, J. *see* **Muñoz-Almaraz, F. J. et al., (2005b:93007)**
Glumov, V. M. (*with* Zemlyakov, S. D.; Rutkovskiĭ, V. Yu.; Sukhanov, V. M.) Some peculiarities of computer-aided derivation of equations of motion for a coupling of mechanical systems and their decomposition. (Russian. Russian summary) **2005m:70092**
— *see also* **Rutkovskiĭ, V. Yu. et al., 2005d:70012**
Gutiérrez, Eugenio (*with* Arrowsmith, D. K.) Control of a double impacting mechanical oscillator using displacement feedback. (English summary)
Hodges, Dewey H. *see* **Bajodah, Abdulrahman H. et al., 2005j:70056**
Izzo, D. (*with* Valente, Chiara) A globally stable Lyapunov non linear controller for the attitude of a platform equipped with a system of actuating gyroscopes. (English summary) (*see* **2005c:00016**)
Jadbabaie, Ali *see* **Tanner, Herbert G. et al., 2005h:70032**
Kabanov, S. A. *see* **Anisimov, V. N., 2005m:70089**
Kapila, Vikram *see* **Wong, Hong et al., (2005c:93005)**
Kirichenko, N. F. (*with* Matvienko, V. T.) Algorithms for the asymptotic, terminal, and adaptive stabilization of the rotational motions of a rigid body. (Russian. English, Russian and Ukrainian summaries) **2005g:70050**
Kołodziejczyk, Krzysztof *see* **Blajer, Wojciech, 2005g:70049**
Kovaleva, A. S. Frequency and phase control of the resonance oscillations of a nonlinear system under uncertainty conditions. (Russian. Russian summary) **2005h:70031**
Krishchenko, A. P. *see* **Velishchanskiĭ, M. A. et al.**
Lenci, Stefano (*with* Rega, Giuseppe) A unified control framework of the non-regular dynamics of mechanical oscillators. (English summary)
Leonard, Naomi Ehrich *see* **Woolsey, C. A. et al., 2005m:70093**
Lewis, Andrew D. *See* **Bullo, Francesco, 2005h:70030**
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Matvienko, V. T. *see* **Kirichenko, N. F., 2005g:70050**
Moiola, Jorge L. *see* **Alonso, Diego M. et al.**
Mullhaupt, Ph. (*with* Srinivasan, Balasubrahmanyan; Bonvin, D.) Analysis of exclusively kinetic two-link underactuated mechanical systems. (English summary)
Muñoz-Almaraz, F. J. (*with* Freire Macías, Emilio; Galán-Vioque, J.) Bifurcations and control of periodic orbits in symmetric Hamiltonian systems: an application to the Furuta pendulum. (English summary) (*see* **2005b:93007**)
Nagata, Takashi Variable-gain constraint stabilization for general multibody systems with applications. (English summary)
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Zhao, Yiyuan J. (*with* Qi, Ying Celia) Minimum fuel powered dynamic soaring of unmanned aerial vehicles utilizing wind gradients. (English summary)

Items with secondary classifications in 70Q05

Abichou, A. *see* **Beji, L.**
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— (*with* Balint, A. M.; Grigis, Alain; Balint, Şt.) The controllability of the "path capture" and "steady descent" flight of ALFLEX. (English summary) **2005g:93084**
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Martin, Philippe Pierre (*with* Rouchon, Pierre[1]; Rudolph, Joachim) Invariant tracking (English summary) **2005d:93131**
Martín de Diego, David *see* **de León, Manuel et al., 2005k:49097** *and* **(2005b:93007)**
Martínez, Eduardo *see* **Cortés, Jorge, 2005h:93038**
Martynyuk-Chernienko, Yu. A. (*with* Slyn'ko, V. I.) On the synthesis of controls of an inexact system with a conditionally invariant set. (Russian. English and Ukrainian summaries) **2005f:93062**
Matyukhin, V. I. Stabilization of the motions of a descent vehicle in the upper layers of the atmosphere. (Russian. Russian summary) **2005f:93150**
— Computer-aided integration of the motions of a discontinuous mechanical system. (Russian. Russian summary) **2005g:34014**
— (*with* Pyatnitskiĭ, Evgeniĭ Serafimovich) Controllability of mechanical systems in a class of controls bounded together with their derivatives. (Russian. Russian summary) **2005g:93016**
— Controllability of nonholonomic mechanical systems in the class of bounded controls. (Russian. Russian summary) **2005j:93012**
Mazur, Alicja Hybrid adaptive control laws solving a path following problem for non-holonomic mobile manipulators. (English summary) **2005g:70008**
McClamroch, N. Harris *see* **Cho, Sangbum, 2005c:70028**
McIntyre, M. L. *see* **Xian, Bin et al.**
Mehra, Raman K. (*with* Prasanth, Ravi K.) Model predictive control of nonlinear rotorcraft dynamics with application to the XV-15 tilt rotor. (English summary) (*see* **2005c:93005**)
Melin, Patricia (*with* Castillo, Oscar) Intelligent control of aircraft dynamic systems with a new hybrid neuro-fuzzy-fractal approach. (English summary) (*see* **2005c:93005**)
Menegaldo, Luciano Luporini (*with* de Toledo Fleury, Agenor; Weber, Hans Ingo) Optimal control of human posture using algorithms based on consistent approximations theory. (English summary) (*see* **2005b:93006**)
Mesbahi, Mehran *see* **Kim, Yoonsoo et al., 2005e:49077**
Miller, Boris M. (*with* Bentsman, Joseph) The singularity opening approach to control of mechanical systems with constraints. (English summary) **2005e:49042**
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Mita, Tsutomu *see* **Xin, Xin et al., 2005b:70005**
Mliha Touati, M. *see* **Kailil, A. et al., 2005e:93105**
Moghadasi, S. Reza Rolling of a body on a plane or a sphere: a geometric point of view (English summary) **2005f:93037**
Moreau, Luc[2] (*with* Bachmayer, Ralf; Leonard, Naomi Ehrich) Coordinated gradient descent: a case study of Lagrangian dynamics with projected gradient information (English summary) (*see* **2005b:93007**)
Morishita, Helio Mitio (*with* de Souza, Jessé Rebello, Junior) Dynamical features of an autonomous two-body floating system. (English summary) **2005d:34098**
Morozov, V. M. *see* **Kalenova, V. I. et al., 2005j:70031**
Mrani, N. *see* **Kailil, A. et al., 2005e:93105**
Mukharlyamov, R. G. Control of the dynamics of Chaplygin systems. (Russian. Russian summary) **2005k:70040**
Müller, Peter C. *see* **Qiu, Zhi Ping[1] et al., 2005e:93088**
Muñoz-Lecanda, Miguel C. (*with* Yániz-Fernández, F. Javier) A global study of the stability of nonholonomic dissipative systems. (English summary) **2005e:70020**
Murray, Richard M. *see* **Del Vecchio, Domitilla et al., 2005k:93219**
Natori, M. C. *see* **Takeichi, Noboru et al.**
Nijmeijer, Henk *see* **Lizárraga, David A. et al., 2005e:93143** *and* **Khac Duc Do et al.**
Nordin, Mattias (*with* Gutman, Per-Olof) Controlling mechanical systems with backlash—a survey. (English summary)
Okhotsimskiĭ, D. E. *see* **Beznos, A. V. et al., 2005f:93069**
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Orden Martín, David (*with* Rote, Günter; Santos, Francisco; Servatius, Brigitte; Servatius, Herman; Whiteley, Walter) Non-crossing frameworks with non-crossing reciprocals.

(English summary) **2005g:52054**
Orlov, Yuri V. (*with* Aguilar, L. T.) Non-smooth $\mathscr{H}_\infty$-position control of mechanical manipulators with frictional joints. (English summary) **2005e:93049**
Ozawa, Ryuta *see* **Arimoto, Suguru et al., 2005m:70006** *and* **Kobayashi, Hiroaki, 2005m:93102**
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Perona, Pietro *see* **Del Vecchio, Domitilla et al., 2005k:93219**
Perram, John W. (*with* Shiryaev, A. S.; Canudas de Wit, Carlos; Grognard, Frédéric) Explicit formula for a general integral of motion for a class of mechanical systems subject to holonomic constraint. (English summary) **2005c:70017**
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Pogorelov, V. A. *see* **Gusarin, S. A., 2005h:93110**
Pongvthithum, R. (*with* Veres, S. M.; Gabriel, S. B.; Rogers, Eric) Universal adaptive control of satellite formation flying. (English summary)
Popadinets, V. I. *see* **Volosov, V. V. et al., 2005g:70048**
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Puzyrëv, V. E. Passive stabilization of the steady motion of a rotating pendulum. (Russian. Russian summary)
Pyatko, S. G. *see* **Kumkov, S. I. et al., 2005a:93011**
Pyatnitskiĭ, Evgeniĭ Serafimovich *see* **Matyukhin, V. I., 2005g:93016**
Qiu, Zhi Ping[1] (*with* Müller, Peter C.; Frommer, Andreas) The new nonprobabilistic criterion of failure for dynamical systems based on convex models. (English summary) **2005e:93088**
Quadrelli, Marco B. Dynamics and control of novel orbiting formations with internal dynamics. (English summary) **2005e:70039**
— Effect of distributed rod and string flexibility on formation dynamic stability. (English summary) **2005c:70031**
de Queiroz, Marcio Santos *see* **Xian, Bin et al.**
Rapisarda, Paolo (*with* Trentelman, H. L.) Linear Hamiltonian behaviors and bilinear differential forms. (English summary) **2005k:93003**
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Rouchon, Pierre[1] Flatness based control of oscillators. (English summary) **2005m:93017**
— *see also* **Martin, Philippe Pierre et al., 2005d:93131**
Rudolph, Joachim *see* **Martin, Philippe Pierre et al., 2005d:93131**
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Serban, Radu (*with* Koon, Wang S.; Lo, Martin W.; Marsden, Jerrold E.; Petzold, Linda R.; Ross, Shane D.; Wilson, Roby S.) Halo orbit mission correction maneuvers using optimal control. (English summary) **2005m:70084**
Servatius, Brigitte *see* **Orden Martín, David et al., 2005g:52054**
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Shillor, Meir *see* **Lindsey, William A. et al.**
Shiryaev, A. S. (*with* Ludvigsen, H.; Egeland, Olav) Swinging up the spherical pendulum via stabilization of its first integrals. (English summary) **2005m:93132**
— *see also* **Perram, John W. et al., 2005c:70017**
Shuster, Malcolm D. Deterministic three-axis attitude determination. (English summary) **2005m:70085**
Sieber, Jan (*with* Krauskopf, Bernd) Complex balancing motions of an inverted pendulum subject to delayed feedback control. (English summary) **2005d:93075**
— (*with* Krauskopf, Bernd) Extending the permissible control loop latency for the controlled inverted pendulum. (English summary)
Singh, Tarunraj *see* **Kim, Jae-Jun**
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Sugie, Toshiharu *see* **Fujimoto, Kenji et al., 2005c:49051** *and* **2005k:93146**
Suleman, A. Multibody dynamics and nonlinear control of flexible space structures. (English summary)
Sun, Li Xia *see* **Zhang, Niao Na et al.**
Takeichi, Noboru (*with* Natori, M. C.; Okuizumi, Nobukatsu; Higuchi, Ken) Periodic solutions and controls of tethered systems in elliptic orbits. (English summary)
Tanner, Herbert G. ISS properties of nonholonomic vehicles. (English summary) **2005f:93156**
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Tenreiro Machado, J. A. *see* **Barbosa, Ramiro S. et al., (2005b:93007)**
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Udrişte, Daniel Ion On a control system of trailer-truck jackknifing. (English summary) (*see* **2005b:00022**)
Urakubo, Takateru (*with* Tsuchiya, Kazuo; Tsujita, Katsuyoshi) Attitude control of a spacecraft with two reaction wheels. (English summary)
Usai, Elio *see* **Bartolini, Giorgio et al.**
Vasile, Massimiliano (*with* Bernelli-Zazzera, Franco) Optimizing low-thrust and gravity assist maneuvers to design interplanetary trajectories. (English summary) **2005c:70032**
Veres, S. M. *see* **Pongvthithum, R. et al.**
Vergez, Paul (*with* Sauter, Luke; Dahlke, Scott) An improved Kalman filter for satellite orbit predictions. (English summary) **2005m:70087**
Vittot, Michel (*with* Chandre, C.; Ciraolo, Guido; Lima, Ricardo) Localized control for non-resonant Hamiltonian systems. (English summary) **2005g:37121**
— *see also* **Ciraolo, Guido et al., 2005i:70032**
Volosov, V. V. (*with* Kutsenko, I. A.; Popadinets, V. I.) Mathematical models of the rotational motion of spacecraft with redundant systems of gyrodines and flywheels, and problems of attitude control. I. (Russian. English, Russian and Ukrainian summaries) **2005g:70048**
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Wilson, Roby S. *see* **Serban, Radu et al., 2005m:70084**
Won, Chang-Hee (*with* Ahn, Hyo-Sung) Nonlinear orbital dynamic equations and state-dependent Riccati equation control of formation flying satellites. (English summary) **2005g:49068**
Wong, R. (*with* Cherchas, D. B.) Hybrid constraint space dynamics and control for robot manipulators. (English summary) **2005f:70011**
Xian, Bin (*with* de Queiroz, Marcio Santos; Dawson, Darren M.; McIntyre, M. L.) A discontinuous output feedback controller and velocity observer for nonlinear mechanical systems. (English summary)
Xin, Xin (*with* Mita, Tsutomu; Kaneda, Masahiro[2]) The posture control of a two-link free flying acrobot with initial angular momentum. (English summary) **2005b:70005**
Yang, Y. R. *see* **Cao, Deng Qing et al., 2005f:93145**
Yániz-Fernández, F. Javier *see* **Muñoz-Lecanda, Miguel C., 2005e:70020**
Yavin, Y. (*with* Frangos, C.) Control of a three-link manipulator driven by three spinning disks. (English summary)
Zavalishchin, S. T. Control of motion of mechanical systems in a viscous medium for optimum energy consumption. (English summary) **2005h:93031**
Zhang, Niao Na (*with* Feng, Yong[2]; Sun, Li Xia) Terminal sliding mode control of two-link flexible manipulators. (Chinese. English and Chinese summaries)
Zhao, Jun[2] (*with* Spong, Mark W.) Hybrid control for global stabilization of the cart-pendulum system. (English summary)
Zhao, Yiyuan J. Optimal patterns of glider dynamic soaring. (English summary) **2005e:49080**
Zhu, W. Q. (*with* Huang, Zhi Long) Stochastic stabilization of quasi non-integrable Hamiltonian systems. (English summary) **2005d:93146**
— (*with* Deng, M. L.) Optimal bounded control for minimizing the response of quasi-integrable Hamiltonian systems. (English summary) **2005e:70025**
— Feedback stabilization of quasi nonintegrable Hamiltonian systems by using Lyapunov exponent. (English summary) **2005f:93175**
Zimmerman, Jason A. Optimal control of the sphere S^n rolling on E^n. (English summary) **2005m:49036**

Items listed otherwise than by author

Advances in dynamics and control ★ Advances in dynamics and control. **2005c:93005**
Lecture Notes in Control and Information Sciences *see* **Kwon, S. J., 2005d:93002**

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Bashkirov, D. (*with* Sardanashvili, G. A.) Covariant Hamiltonian field theory: path integral quantization. (English summary) **2005k:70051**
Bodurov, Theodore Dynamics of spatially localized fields obeying complex Hamiltonian evolution equations. (English summary)
Castrillón López, Marco (*with* Marsden, Jerrold E.) Some remarks on Lagrangian and Poisson reduction for field theories. (English summary) **2005e:70040**
Echeverría-Enríquez, A. (*with* López-Lacasta, Carlos; Marín-Solano, J.; Muñoz-Lecanda, Miguel C.; Román-Roy, Narciso) Skinner-Rusk formulation in classical field theory. (English summary) **2005j:70058**
El-Amin, M. F. Double dispersion effects on natural convection heat and mass transfer in non-Darcy porous medium. (English summary)

Fatibene, Lorenzo (*with* Ferraris, Marco; Francaviglia, Mauro) On-shell symmetries. (English summary) **2005a:70034**
Ferraris, Marco *see* **Fatibene, Lorenzo et al., 2005a:70034**
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Munteanu, Florian (*with* Rey, Angel M.; Salgado, Modesto) The Günther's formalism in classical field theory: momentum map and reduction. (English summary) **2005d:70014**
Pons, Josep M. (*with* Talavera, Pere) Truncations driven by constraints: consistency and conditions for correct upliftings. (English summary) **2005m:70094**
Radaev, Yu. N. (*with* Gudkov, V. A.) On the computation of null-Lagrangians of a nonlinearly elastic field. (Russian. English and Russian summaries) **2005j:70060**
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Teleman, Ana-Maria *see* **Udrişte, Constantin, 2005j:70061**
Udrişte, Constantin (*with* Teleman, Ana-Maria) Hamiltonian approaches of field theory. (English summary) **2005j:70061**
Zhang, Ying[8] (*with* Li, Zi Ping) The quantal Poincaré-Cartan integral invariant for singular higher-order Lagrangian in field theories. (English summary) **2005k:70052**

Items with secondary classifications in 70S05

Alonso, Ricardo J. (*with* Vinogradov, A. M.) Green formula and Legendre transformation. (English summary) **2005c:58033**
Bashkirov, D. BV quantization of covariant (polysymplectic) Hamiltonian field theory. (English summary) **2005g:58030**
Basini, Giuseppe (*with* Capozziello, Salvatore) A general covariant symplectic structure from conservation laws. (English summary) **2005m:81172**
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Benci, Vieri (*with* Fortunato, Donato) Solitary waves in classical field theory. (English summary) **2005j:58023**
Bimonte, Giuseppe (*with* Esposito, Giampiero; Marmo, Giuseppe; Stornaiolo, Cosimo) Peierls brackets: from field theory to dissipative systems. (English summary) **2005e:81123**
Bowcock, P. (*with* Corrigan, Edward; Zambon, C.) Classically integrable field theories with defects. (English summary) **2005j:81072**
Buffenoir, E. (*with* Henneaux, Marc; Noui, K.; Roche, Ph.) Hamiltonian analysis of Plebanski theory. (English summary) **2005h:81336**
Buniy, Roman V. (*with* Kephart, Thomas W.) Existence of finite-energy lumps in classical field theories. (English summary) **2005b:81097**
Capozziello, Salvatore *see* **Basini, Giuseppe, 2005m:81172**
Castellani, Elena Dirac on gauges and constraints. (English summary) **2005i:70047**
Castrillón López, Marco (*with* Muñoz Masqué, J.) A report on gauge invariant forms and variational problems on the bundle of connections of a principal U(1)-bundle and on associated vector bundles. (English summary) **2005g:58032**
— (*with* Muñoz Masqué, J.) Current forms and gauge invariance. (English summary) **2005c:70037**
Chen, Hang-Hui (*with* Zheng, Han-Qing) Canonical formalism for Lagrangians of maximal nonlocality. (English summary) **2005j:70035**
Chen, Jing-Bo Multisymplectic geometry, local conservation laws and a multisymplectic integrator for the Zakharov-Kuznetsov equation. (English summary) **2005a:37108**
Corrigan, Edward *see* **Bowcock, P. et al., 2005j:81072**
Di Bartolo, Cayetano (*with* Gambini, Rodolfo; Porto, Rafael A.; Pullin, Jorge) Dirac-type approach for consistent discretizations of classical constrained theories. (English summary) **2005i:70048**
Esposito, Giampiero *see* **Bimonte, Giuseppe et al., 2005e:81123**
Fatibene, Lorenzo (*with* Francaviglia, Mauro) ★ Natural and gauge natural formalism for classical field theories. **2005f:58015**
— (*with* Ferraris, Marco; Francaviglia, Mauro) On the gauge natural structure of modern physics. (English summary) **2005m:58007**
Fernández, Antonio[2] (*with* García Pérez, Pedro Luis; Rodrigo, C.) Stress-energy-momentum tensors for natural constrained variational problems. (English summary) **2005e:58029**
Ferraris, Marco *see* **Fatibene, Lorenzo et al., 2005m:58007**
Forger, Michael (*with* Paufler, Cornelius; Römer, Hartmann) A general construction of Poisson brackets on exact multisymplectic manifolds. (English summary) **2005a:58024**
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— (*with* Kouneiher, Joseph) Covariant Hamiltonian formalism for the calculus of variations with several variables: Lepage-Dedecker versus De Donder-Weyl. (English summary) **2005k:58029**
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Stornaiolo, Cosimo *see* **Bimonte, Giuseppe et al., 2005e:81123**
Torres del Castillo, G. F. Gauge-invariant formulation of the electromagnetic interaction in Hamiltonian mechanics. (English and Spanish summaries) **2005a:78010**
Tucker, Robin W. Classical field-particle dynamics in space-time geometries. (English summary) **2005j:83084**
Tyutin, I. V. *see* **Batalin, I. A., 2005m:81317**
Vinogradov, A. M. *see* **Alonso, Ricardo J., 2005c:58033**
Winterroth, E. *see* **Palese, M., 2005k:70053**
Wotzasek, C. *see* **Neves, C. et al., 2005d:81359**
Zambon, C. *see* **Bowcock, P. et al., 2005j:81072**
Zheng, Han-Qing *see* **Chen, Hang-Hui, 2005j:70035**

70S10 Symmetries and conservation laws

de León, Manuel (*with* Martín de Diego, David; Santamaría-Merino, Aitor) Symmetries in field theory. (English summary) **2005j:70062**
Martín de Diego, David *see* **de León, Manuel et al., 2005j:70062**
Palese, M. (*with* Winterroth, E.) Covariant gauge-natural conservation laws. (English summary) **2005k:70053**
Santamaría-Merino, Aitor *see* **de León, Manuel et al., 2005j:70062**
Śniatycki, Jędrzej Multisymplectic reduction for proper actions. (English summary) **2005b:70032**
Winterroth, E. *see* **Palese, M., 2005k:70053**

Items with secondary classifications in 70S10

Allemandi, Gianluca (*with* Francaviglia, Mauro; Raiteri, M.) Charges and energy in Chern-Simons theories and Lovelock gravity. (English summary) **2005c:83057**
Borowiec, Andrzej (*with* Ferraris, Marco; Francaviglia, Mauro; Palese, M.) Conservation laws for non-global Lagrangians. (English summary) **2005g:58031**
Ferraris, Marco *see* **Borowiec, Andrzej et al., 2005g:58031**
Forger, Michael (*with* Römer, Hartmann) Currents and the energy-momentum tensor in classical field theory: a fresh look at an old problem. (English summary) **2005c:70036**
Francaviglia, Mauro *see* **Allemandi, Gianluca et al., 2005c:83057** *and* **Borowiec, Andrzej et al., 2005g:58031**
Palese, M. *see* **Borowiec, Andrzej et al., 2005g:58031**
Raiteri, M. *see* **Allemandi, Gianluca et al., 2005c:83057**
Römer, Hartmann *see* **Forger, Michael, 2005c:70036**

70S15 Yang-Mills and other gauge theories

Castrillón López, Marco (*with* Muñoz Masqué, J.) Current forms and gauge invariance. (English summary) **2005c:70037**
Muñoz Masqué, J. *see* **Castrillón López, Marco, 2005c:70037**
Sandovici, Adrian A rheonomic gauge theory. (English summary) **2005j:70063**

Items with secondary classifications in 70S15

Aldaya, V. (*with* Jaramillo, J. L.; Becerra Guerrero, Julio) Gauge principle revisited: towards a unification of space-time and internal gauge interactions. (English summary) **2005a:81137**
Baleanu, Dumitru Metafluid dynamics and Hamilton-Jacobi formalism. (English summary) **2005k:76003**
Banerjee, Rabin Gauge theories on sphere and Killing vectors. (English summary) **2005e:53118**

Becerra Guerrero, Julio *see* **Aldaya, V. et al., 2005a:81137**
Cartas-Fuentevilla, R. (*with* Escalante, Alberto) Topological terms and the global symplectic geometry of the phase space in string theory. (English summary) **2005g:81230**
Castrillón López, Marco (*with* Muñoz Masqué, J.) A report on gauge invariant forms and variational problems on the bundle of connections of a principal U(1)-bundle and on associated vector bundles. (English summary) **2005g:58032**
Edelen, Dominic G. B. ★ Applied exterior calculus. **2005h:58002**
Escalante, Alberto *see* **Cartas-Fuentevilla, R., 2005g:81230**
Fatibene, Lorenzo (*with* Francaviglia, Mauro) Gauge natural field theories and Spin structures on manifolds. (English summary) **2005k:58028**
— (*with* Francaviglia, Mauro) ★ Natural and gauge natural formalism for classical field theories. **2005f:58015**
Ford, Christopher Fractionally charged instantons. (English summary) **2005g:81194**
Francaviglia, Mauro *see* **Fatibene, Lorenzo, 2005f:58015** *and* **2005k:58028**
Ganti, S. *see* **Sharma, Pradeep, 2005m:74005**
Jaramillo, J. L. *see* **Aldaya, V. et al., 2005a:81137**
Khvedelidze, A. M. On the Hamiltonian formulation of gauge theories in terms of physical variables. (English summary) **2005h:81216**
Krtouš, Pavel Covariant derivative on non-linear fiber bundles. (English summary) **2005e:53029**
Langmann, Edwin Gauge theory approach towards an explicit solution of the (classical) elliptic Calogero-Moser system. (English summary) **2005m:37160**
Muñoz Masqué, J. *see* **Castrillón López, Marco, 2005g:58032**
Nair, V. P. (*with* Yelnikov, A.) On the invariant measure for the Yang-Mills configuration space in $(3+1)$ dimensions. (English summary) **2005e:58014**
Pagani, Enrico A geometric approach to the Legendre transformation. (English summary) **2005i:70031**
Pohjanpelto, Juha Classification of generalized symmetries of the Yang-Mills fields with a semi-simple structure group. (English summary) **2005d:53038**
Rothe, Heinz J. Dirac's constrained Hamiltonian dynamics from an unconstrained dynamics. (English summary) **2005i:70049**
Rubakov, V. A. ★ Classical theory of gauge fields. **2005k:81175**
Sengupta, Ambar N. Symplectic reduction for Yang-Mills on a cylinder. (English summary) **2005h:53146**
Sharma, Pradeep (*with* Ganti, S.) Gauge-field-theory solution of the elastic state of a screw dislocation in a dispersive (non-local) crystalline solid. (English summary) **2005m:74005**
Tejero Prieto, Carlos Variational formulation of Chern-Simons theory for arbitrary Lie groups. (English summary) **2005f:58033**
Teleman, Ana-Maria *see* **Udrişte, Constantin, 2005j:70061**
Udrişte, Constantin (*with* Teleman, Ana-Maria) Hamiltonian approaches of field theory. (English summary) **2005j:70061**
(Wilson, Stephen S.[3]) *see* **Rubakov, V. A., 2005k:81175**
Yelnikov, A. *see* **Nair, V. P., 2005e:58014**

70S20 More general nonquantum field theories

Items with secondary classifications in 70S20

Katanaev, M. O. Topologically nontrivial one-dimensional solutions in the Skyrme model. (Russian. Russian summary) **2005c:81247**
Ward, R. S. Planar Skyrmions at high and low density. (English summary) **2005a:35233**

70S99 None of the above, but in this section

Items with secondary classifications in 70S99

Capriz, Gianfranco (*with* Mariano, Paolo Maria) Symmetries and Hamiltonian formalism for complex materials. (English summary) **2005b:74007**
Khoury, Justin (*with* Weltman, Amanda) Chameleon cosmology. (English summary) **2005e:83117**
Mariano, Paolo Maria Influence of the material substructure on crack propagation: a unified treatment. (English summary) **2005j:74053**
— *see also* **Capriz, Gianfranco, 2005b:74007**
Palmer, Carl (*with* Stavrinou, P. N.) Equations of motion in a non-integer-dimensional space. (English summary) **2005g:81128**
Poisson, Eric Radiation reaction of point particles in curved spacetime. (English summary) **2005j:83013**
Stavrinou, P. N. *see* **Palmer, Carl, 2005g:81128**
Weltman, Amanda *see* **Khoury, Justin, 2005e:83117**

74–XX Mechanics of deformable solids

74–01 Instructional exposition (textbooks, tutorial papers, etc.)

Cloud, Michael J. *see* **Lebedev, Leonid P., 2005g:74001**
Lebedev, Leonid P. (*with* Cloud, Michael J.) ★ Approximating perfection. **2005g:74001**
Liu, I-Shih ★ Continuum mechanics. **2005c:74001**
Talpaert, Yves R. ★ Tensor analysis and continuum mechanics. **2005f:74001**

Items with secondary classifications in 74–01

(Chechin, V. A.) *see* **Svetlitskiĭ, V. A., 2005c:74037**
(Merzon, G. I.) *see* **Svetlitskiĭ, V. A., 2005c:74037**
Svetlitskiĭ, V. A. ★ Engineering vibration analysis: worked problems. 1. **2005c:74037**

74–02 Research exposition (monographs, survey articles)

Hutter, Kolumban (*with* Jöhnk, Klaus) ★ Continuum methods of physical modeling. **2005h:74001**
Jöhnk, Klaus *see* **Hutter, Kolumban, 2005h:74001**

Items with secondary classifications in 74–02

Gladwell, Graham M. L. ★ Inverse problems in vibration. **2005g:74059**

74–03 Historical (must also be assigned at least one classification number from Section 01)

Caparrini, Sandro (*with* Pastrone, Franco) E. Frola (1906–1962): an attempt towards an axiomatic theory of elasticity. (English summary) **2005b:74001**
Elishakoff, Isaac Essay on the contributors to the elastic stability theory. (English summary) **2005m:74001**
(Frola, E.) *see* **Caparrini, Sandro, 2005b:74001**
Pastrone, Franco *see* **Caparrini, Sandro, 2005b:74001**

Items with secondary classifications in 74–03

Radelet de Grave, Patricia Historiographie de la mécanique de 1975 à 2000: une étude statistique. (English and French summaries) [Histography of mechanics from 1975 to 2000: a statistical study]

74–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 74–04

Rand, Omri (*with* Rovenskiĭ, Vladimir) ★ Analytical methods in anisotropic elasticity. **2005f:74032**
Rovenskiĭ, Vladimir *see* **Rand, Omri, 2005f:74032**

74–05 Experimental work

Items with secondary classifications in 74–05

Balandraud, Xavier (*with* Ernst, Emil; Soós, Eugen) Monotone strain-stress models for shape memory alloys hysteresis loop and pseudoelastic behavior. (English summary) **2005i:74002**
Ernst, Emil *see* **Balandraud, Xavier et al., 2005i:74002**
Soós, Eugen *see* **Balandraud, Xavier et al., 2005i:74002**

74–06 Proceedings, conferences, collections, etc.

(Breitkopf, Piotr) *see* **Meshfree & particle based approaches in computational mechanics, 2005f:74002**
Eberhardsteiner, Josef (*with* Mang, Herbert A.; Rammerstorfer, Franz G.) Preface [Special issue on The Fifth World Congress on Computational Mechanics].
(Fosdick, Roger L.) *see* **Rational spirit in modern continuum mechanics, 2005i:74001**
(Gao, David Yang) *see* **Complementarity, duality and symmetry in nonlinear mechanics, 2005g:74002**
(Gdoutos, E. E.) *see* **Problems of fracture mechanics and fatigue, 2005a:74001**
(Huerta, Antonio) *see* **Meshfree & particle based approaches in computational mechanics, 2005f:74002**
(Man, Chi-Sing) *see* **Rational spirit in modern continuum mechanics, 2005i:74001**
Mang, Herbert A. *see* **Eberhardsteiner, Josef et al.**
(Pastor, Manuel) *see* **Numerical modelling in geomechanics, 2005b:74003**
Rammerstorfer, Franz G. *see* **Eberhardsteiner, Josef et al.**
(Rodopoulos, C. A.) *see* **Problems of fracture mechanics and fatigue, 2005a:74001**
(Saanouni, Khémais) *see* **Numerical modelling in damage mechanics, 2005b:74002**
(Tamagnini, Claudio) *see* **Numerical modelling in geomechanics, 2005b:74003**
(Truesdell, Clifford Ambrose, III) *see* **Rational spirit in modern continuum mechanics, 2005i:74001**
(Yates, J. R.) *see* **Problems of fracture mechanics and fatigue, 2005a:74001**

Items listed otherwise than by author

Bibliography:
Truesdell, Clifford Ambrose, III ★ The rational spirit in modern continuum mechanics. **2005i:74001**
Complementarity, duality and symmetry in nonlinear mechanics ★ Complementarity, duality and symmetry in nonlinear mechanics. **2005g:74002**
Meshfree & particle based approaches in computational mechanics ★ Meshfree & particle based approaches in computational mechanics. **2005f:74002**
Numerical modelling in damage mechanics ★ Numerical modelling in damage mechanics. **2005b:74002**
Numerical modelling in geomechanics ★ Numerical modelling in geomechanics. **2005b:74003**
Problems of fracture mechanics and fatigue ★ Problems of fracture mechanics and fatigue. **2005a:74001**
Rational spirit in modern continuum mechanics ★ The rational spirit in modern continuum mechanics. **2005i:74001**
Shanghai ★ Complementarity, duality and symmetry in nonlinear mechanics. **2005g:74002**
Troyes ★ Numerical modelling in damage mechanics. **2005b:74002**

Items with secondary classifications in 74–06

Agrawal, Om Prakash (*with* Tenreiro Machado, J. A.; Sabatier, Jocelyn) Introduction [Special issue on fractional derivatives and their applications].
(Attinger, Sabine) *see* **Multiscale modelling and simulation, 2005d:65007**
(Brebbia, C. A.) *see* **Moving boundaries VII, 2005b:65003** *and* **Boundary elements XXVI, 2005d:65006**
(Cohen, Gary C.) *see* **Mathematical and numerical aspects of wave propagation—WAVES 2003, 2005b:00020**
(Dervieux, Alain) *see* **Fluid-structure interaction, 2005b:74043**
(Gao, David Yang) *see* **Advances in mechanics and mathematics. Vol. II, 2005a:00011**
(Heikkola, Erkki) *see* **Mathematical and numerical aspects of wave propagation—WAVES 2003, 2005b:00020**
Iosifescu, Marius (*with* Sofonea, Mircea; Rădulescu, Vicenţiu) Editorial [Actes du 6-ème Colloque Franco-Roumain de Mathématiques Appliquées]. [Editorial [Proceedings of the Sixth Franco-Romanian Colloquium on Applied Mathematics]]
(Joly, Patrick) *see* **Mathematical and numerical aspects of wave propagation—WAVES 2003, 2005b:00020**
(Koumoutsakos, Petros) *see* **Multiscale modelling and simulation, 2005d:65007**
(Mammoli, A. A.) *see* **Moving boundaries VII, 2005b:65003**
(Monaco, Roberto) *see* **Conference: Waves and Stability in Continuous Media, 12th, "WASCOM 2003", 2005c:00016**
(Neittaanmäki, Pekka) *see* **Mathematical and numerical aspects of wave propagation—WAVES 2003, 2005b:00020**
(Nodera, Takashi) *see* **Mathematics of destructive phenomena**
(Ogden, Ray W.) *see* **Advances in mechanics and mathematics. Vol. II, 2005a:00011** *and* **Scott, N. H.**
(Pennisi, Sebastiano) *see* **Conference: Waves and Stability in Continuous Media, 12th, "WASCOM 2003", 2005c:00016**
Rădulescu, Vicenţiu *see* **Iosifescu, Marius et al.**
(Rionero, Salvatore) *see* **Conference: Waves and Stability in Continuous Media, 12th "WASCOM 2003", 2005c:00016**
(Ruggeri, Tommaso) *see* **Conference: Waves and Stability in Continuous Media, 12th, "WASCOM 2003", 2005c:00016**
Sabatier, Jocelyn *see* **Agrawal, Om Prakash et al.**
Scott, N. H. Editorial [Modern Mechanics and Mathematics—An International Conference in honour of Ray Ogden's 60th birthday].
Sofonea, Mircea *see* **Iosifescu, Marius et al.**
(Tani, Atusi) *see* **Mathematics of destructive phenomena**
Tenreiro Machado, J. A. *see* **Agrawal, Om Prakash et al.**

Items listed otherwise than by author

Advances in mechanics and mathematics. Vol. II ★ Advances in mechanics and mathematics. Vol. II. **2005a:00011**
Bologna ★ Boundary elements XXVI. **2005d:65006**
Boundary elements XXVI ★ Boundary elements XXVI. **2005d:65006**
Conference:
Waves and Stability in Continuous Media, 12th, "WASCOM 2003" ★ "WASCOM 2003"—12th Conference on Waves and Stability in Continuous Media. **2005c:00016**
Fluid-structure interaction ★ Fluid-structure interaction. **2005b:74043**
Jyväskylä ★ Mathematical and numerical aspects of wave propagation—WAVES 2003. **2005b:00020**
Lugano ★ Multiscale modelling and simulation. **2005d:65007**
Mathematical and numerical aspects of wave propagation—WAVES 2003 ★ Mathematical and numerical aspects of wave propagation—WAVES 2003. **2005b:00020**
Mathematics of destructive phenomena ★ Hakai genshō no sūri. [Mathematics of destructive phenomena]
Moving boundaries VII ★ Moving boundaries VII. **2005b:65003**
Multiscale modelling and simulation ★ Multiscale modelling and simulation. **2005d:65007**
Santa Fe, NM ★ Moving boundaries VII. **2005b:65003**
Villasimius ★ "WASCOM 2003"—12th Conference on Waves and Stability in Continuous Media. **2005c:00016**
Yokohama ★ Hakai genshō no sūri. [Mathematics of destructive phenomena]

74Axx Generalities, axiomatics, foundations of continuum mechanics of solids

(Antman, Stuart S.) *see* **Truesdell, Clifford Ambrose, III, 2005a:74002**
Noll, Walter *see* **Truesdell, Clifford Ambrose, III, 2005a:74002**
Truesdell, Clifford Ambrose, III (*with* Noll, Walter) ★ The non-linear field theories of mechanics. **2005a:74002**

Items with secondary classifications in 74Axx

Caparrini, Sandro (*with* Pastrone, Franco) E. Frola (1906–1962): an attempt towards an axiomatic theory of elasticity. (English summary) **2005b:74001**
(Fosdick, Roger L.) *see* **Rational spirit in modern continuum mechanics, 2005i:74001**
(Frola, E.) *see* **Caparrini, Sandro, 2005b:74001**
(Man, Chi-Sing) *see* **Rational spirit in modern continuum mechanics, 2005i:74001**
Pastrone, Franco *see* **Caparrini, Sandro, 2005b:74001**
Talpaert, Yves R. ★ Tensor analysis and continuum mechanics. **2005f:74001**

(Truesdell, Clifford Ambrose, III) *see* **Rational spirit in modern continuum mechanics, 2005i:74001**

Items listed otherwise than by author

Bibliography:

Truesdell, Clifford Ambrose, III ★ The rational spirit in modern continuum mechanics. **2005i:74001**

Rational spirit in modern continuum mechanics ★ The rational spirit in modern continuum mechanics. **2005i:74001**

74A05 Kinematics of deformation

Annin, B. D. (*with* Korobeĭnikov, S. N.) Generalized conjugate stress and strain tensors. (Russian. Russian summary) **2005m:74002**

Böck, Nikolaus (*with* Holzapfel, Gerhard A.) A new two-point deformation tensor and its relation to the classical kinematical framework and the stress concept. (English summary) **2005f:74003**

Chen, Yi-Chao (*with* Dui, Guansuo) The derivative of isotropic tensor functions, elastic moduli and stress rate. I. Eigenvalue formulation. (English summary) **2005e:74001**

— *see also* **Dui, Guansuo, 2005b:74004**

Dui, Guansuo (*with* Chen, Yi-Chao) Basis-free representations for the stress rate of isotopic materials [Basis-free representations for the stress rate of isotropic materials]. (English summary) **2005b:74004**

— *see also* **Chen, Yi-Chao, 2005e:74001**

Holzapfel, Gerhard A. *see* **Böck, Nikolaus, 2005f:74003**

Korobeĭnikov, S. N. *see* **Annin, B. D., 2005m:74002**

Items with secondary classifications in 74A05

Li, Shaofan On dual conservation laws in linear elasticity: stress function formalism. (English summary) **2005c:74006**

74A10 Stress

Duan, H. L. (*with* Wang, Jianxiang; Huang, Zhu Ping; Zhong, Y.) Stress fields of a spheroidal inhomogeneity with an interphase in an infinite medium under remote loadings. (English summary) **2005k:74001**

Fosdick, Roger L. (*with* Royer-Carfagni, Gianni) Stress as a constraint reaction in rigid bodies. (English summary) **2005f:74004**

Huang, Zhu Ping *see* **Duan, H. L. et al., 2005k:74001**

Marzocchi, Alfredo (*with* Musesti, Alessandro) Balance laws and weak boundary conditions in continuum mechanics. (English summary) **2005f:74005**

Musesti, Alessandro *see* **Marzocchi, Alfredo, 2005f:74005**

Royer-Carfagni, Gianni *see* **Fosdick, Roger L., 2005f:74004**

Wang, Jianxiang *see* **Duan, H. L. et al., 2005k:74001**

Zhong, Y. *see* **Duan, H. L. et al., 2005k:74001**

Items with secondary classifications in 74A10

Böck, Nikolaus (*with* Holzapfel, Gerhard A.) A new two-point deformation tensor and its relation to the classical kinematical framework and the stress concept. (English summary) **2005f:74003**

Gupta, Anurag *see* **Li, Shaofan et al., 2005j:74003**

Holzapfel, Gerhard A. *see* **Böck, Nikolaus, 2005f:74003**

Ivanov, Sergei A. (*with* Man, Chi-Sing; Nakamura, Gen[1]) Recovery of residual stress in a vertically heterogeneous elastic medium. (English summary) **2005j:74023**

Li, Shaofan (*with* Gupta, Anurag; Markenscoff, Xanthippi) Conservation laws of linear elasticity in stress formulations. (English summary) **2005j:74003**

Lipton, Robert Bounds on the distribution of extreme values for the stress in composite materials. (English summary) **2005a:74083**

Man, Chi-Sing *see* **Ivanov, Sergei A. et al., 2005j:74023**

Markenscoff, Xanthippi *see* **Li, Shaofan et al., 2005j:74003**

Mioduchowski, A. *see* **Ru, C. Q. et al., 2005f:74015**

Nakamura, Gen[1] *see* **Ivanov, Sergei A. et al., 2005j:74023**

Rajagopal, Kumbakonam (*with* Srinivasa, A. R.) On the thermomechanics of materials that have multiple natural configurations. I. Viscoelasticity and classical plasticity. (English summary) **2005c:74004**

Ru, C. Q. (*with* Schiavone, P.; Sudak, L. J.; Mioduchowski, A.) Uniformity of stresses inside an elliptic inclusion in finite plane elastostatics. (English summary) **2005f:74015**

Schiavone, P. *see* **Ru, C. Q. et al., 2005f:74015**

Srinivasa, A. R. *see* **Rajagopal, Kumbakonam, 2005c:74004**

Sudak, L. J. *see* **Ru, C. Q. et al., 2005f:74015**

74A15 Thermodynamics

Balandraud, Xavier (*with* Ernst, Emil; Soós, Eugen) Monotone strain-stress models for shape memory alloys hysteresis loop and pseudoelastic behavior. (English summary) **2005i:74002**

Baltov, A. *see* **Lebon, Georgy et al.**

Burak, Ya. Ĭ. (*with* Kalenyuk, P. Ĭ.; Mīchuda, O. Ya.) On the constitutive relations in the mechanics of inertial elastic systems. (Ukrainian. English summary)

Buratti, Giovanni (*with* Huo, Yongzhong; Müller, Ingo) Eshelby tensor as a tensor of free enthalpy. (English summary) **2005a:74003**

Chanda, T. *see* **Svendsen, Bob, 2005k:74003**

Efendiev, Messoud A. (*with* Miranville, Alain) New models of Cahn-Hilliard-Gurtin equations. (English summary) **2005e:74002**

Ernst, Emil *see* **Balandraud, Xavier et al., 2005i:74002**

Fabrizio, Mauro (*with* Golden, Murrough) Minimum free energies for materials with finite memory. (English summary) **2005c:74002**

Fosdick, Roger L. (*with* Truskinovsky, Lev) About Clapeyron's theorem in linear elasticity. (English summary) **2005h:74002**

Golden, J. M. A proposal concerning the physical rate of dissipation in materials with memory. (English summary) **2005k:74002**

Golden, Murrough *see* **Fabrizio, Mauro, 2005c:74002**

Grmela, Miroslav *see* **Lebon, Georgy et al.**

Huo, Yongzhong *see* **Buratti, Giovanni et al., 2005a:74003**

Ieşan, D. (*with* Nappa, L.) On the theory of heat for micromorphic bodies. (English summary) **2005h:74003**

Kalenyuk, P. Ĭ. *see* **Burak, Ya. Ĭ. et al.**

Lebon, Georgy (*with* Baltov, A.; Grmela, Miroslav) Extended thermodynamics of thermo-elasticity, visco-elasticity and visco-plasticity. (English summary)

Mīchuda, O. Ya. *see* **Burak, Ya. Ĭ. et al.**

Miranville, Alain *see* **Efendiev, Messoud A., 2005e:74002**

Mongiovi, M. S. (*with* Peruzza, R. A.) Entropy flux far from equilibrium in solids and in non viscous gases. (English and Italian summaries) **2005c:74003**

Müller, Ingo *see* **Buratti, Giovanni et al., 2005a:74003**

Nappa, L. *see* **Ieşan, D., 2005h:74003**

Peruzza, R. A. *see* **Mongiovi, M. S., 2005c:74003**

Rajagopal, Kumbakonam (*with* Srinivasa, A. R.) On the thermomechanics of materials that have multiple natural configurations. I. Viscoelasticity and classical plasticity. (English summary) **2005c:74004**

— (*with* Srinivasa, A. R.) On the thermomechanics of materials that have multiple natural configurations. II. Twinning and solid to solid phase transformation. (English summary) **2005f:74006**

Rakotomanana, L. R. ★ A geometric approach to thermomechanics of dissipating continua. **2005h:74004**

Soós, Eugen *see* **Balandraud, Xavier et al., 2005i:74002**

Srinivasa, A. R. *see* **Rajagopal, Kumbakonam, 2005c:74004** *and* **2005f:74006**

Svendsen, Bob (*with* Chanda, T.) Continuum thermodynamic formulation of models for electromagnetic thermoinelastic solids with application in electromagnetic metal forming. (English summary) **2005k:74003**

Truskinovsky, Lev *see* **Fosdick, Roger L., 2005h:74002**

Items with secondary classifications in 74A15

Acharya, Amit *see* **Miller, Ronald E., 2005a:74031**

Amendola, Giovambattista (*with* Carillo, Sandra) Thermal work and minimum free energy in a heat conductor with memory. (English summary) **2005f:80002**

Aşkar Altay, G. (*with* Dökmeci, M. Cengiz) The consistent Mindlin's thermopiezoelectric equations and the principle of virtual work. (English summary)

Barbera, E. Onset of Rayleigh-Bénard convection in gases—classical and extended thermodynamics. (English summary) **2005a:76072**

Bechtel, Stephen E. (*with* Rooney, Francis J.; Wang, Qi[2]) A thermodynamic definition of pressure for incompressible viscous fluids. (English summary)

— *see also* **Rooney, Francis J., 2005b:74006**

Bonfoh, Ahmed Some Cahn-Hilliard-Gurtin models with a logarithmic potential. (English summary) **2005i:35036**

Brigadnov, Igor A. (*with* Dorfmann, Al) Mathematical modeling of magnetorheological fluids. (English summary) **2005k:76005**

Capriz, Gianfranco (*with* Mullenger, George) Dynamics of granular fluids. (English summary) **2005g:76125**

Carillo, Sandra Some remarks on materials with memory: heat conduction and viscoelasticity. (English summary) **2005h:74017**

— *see also* **Amendola, Giovambattista, 2005f:80002**

Carrisi, M. C. *see* **Pennisi, Sebastiano, 2005g:80002**

Chen, Long-Qing *see* **Yu, Peng et al., 2005m:74078**

Del Piero, Gianpietro The relaxed work functional in linear viscoelasticity. **2005b:74027**

Dequiedt, J. L. (*with* Stolz, C.) Propagation of a shock discontinuity in an elasto-plastic material: constitutive relations. (English summary) **2005g:74024**

Deseri, Luca (*with* Owen, David Ross) Toward a field theory for elastic bodies undergoing disarrangements. (English summary) **2005f:74008**

Dökmeci, M. Cengiz *see* **Aşkar Altay, G.**

Dorfmann, Al *see* **Brigadnov, Igor A., 2005k:76005**

Du, Qiang *see* **Yu, Peng et al., 2005m:74078**

Eringen, A. Cemal On a rational theory of turbulence. (English summary) **2005i:76058**

— A continuum theory of dense suspensions. (English summary) **2005m:76181**

Fabrizio, Mauro Gentili's norm on the process and state spaces in linear viscoelasticity. **2005b:74028**

— Free energies in the materials with fading memory and applications to PDEs. (*see* **2005c:00016**)

— (*with* Morro, Angelo) Equivalent histories, minimal state and initial value problem in viscoelasticity. (English summary) **2005m:74020**

Fang, Chung *see* **Luca, I. et al., 2005a:76159**

Favretti, Marco Computation of the phase fraction in a discrete model of a pseudoelastic material. (English summary) (*see* **2005c:00016**)

Godunov, Sergeĭ Konstantinovich The equations of elasticity with dissipation as a nontrivial example of thermodynamically consistent hyperbolic equations. (English summary) **2005g:74062**

— A Galilean-invariant and thermodynamically consistent model of a composite isotropic medium. (Russian. Russian summary) **2005d:76043**

— A new version of the thermodynamically consistent model of Maxwell viscosity. (Russian. Russian summary) **2005g:76005**

Gurtin, Morton E. (*with* Needleman, Alan) Boundary conditions in small-deformation, single-crystal plasticity that account for the Burgers vector. (English summary) **2005i:74019**

Hu, Shenyang *see* **Yu, Peng et al., 2005m:74078**

Hutter, Kolumban (*with* Jöhnk, Klaus) ★ Continuum methods of physical modeling. **2005h:74001**

— *see also* **Luca, I. et al., 2005a:76159**

Iovane, Gerardo (*with* Passarella, Francesca) Saint-Venant's principle in dynamic porous thermoelastic media with memory for heat flux. (English summary) **2005g:74039**

Jöhnk, Klaus *see* **Hutter, Kolumban, 2005h:74001**

Kalpakidis, V. K. (*with* Maugin, Gérard A.) Canonical formulation and conservation laws of thermoelasticity without dissipation. (English summary) **2005c:74017**
Kankanala, S. V. (*with* Triantafyllidis, N.) On finitely strained magnetorheological elastomers. (English summary) **2005g:74045**
Liu, I-Shih ★ Continuum mechanics. **2005c:74001**
Luca, I. (*with* Fang, Chung; Hutter, Kolumban) A thermodynamic model of turbulent motions in a granular material. (English summary) **2005a:76159**
Maugin, Gérard A. *see* **Kalpakidis, V. K., 2005c:74017**
Miller, Ronald E. (*with* Acharya, Amit) A stress-gradient based criterion for dislocation nucleation in crystals. (English summary) **2005a:74031**
Morro, Angelo *see* **Fabrizio, Mauro, 2005m:74020**
Mullenger, George *see* **Capriz, Gianfranco, 2005g:76125**
Musolff, A. (*with* Sahota, Harsimar) Phase transitions in the shape memory alloy CuAlNi. (English summary)
Needleman, Alan *see* **Gurtin, Morton E., 2005i:74019**
Owen, David Ross *see* **Deseri, Luca, 2005f:74008**
Passarella, Francesca *see* **Iovane, Gerardo, 2005g:74039**
Pennisi, Sebastiano (*with* Carrisi, M. C.) On the exact macroscopic approach to extended thermodynamics with 20 moments. **2005g:80002**
— (*with* Scanu, A.) Judicious interpretation of the conditions present in extended thermodynamics. **2005g:80003**
Rooney, Francis J. (*with* Bechtel, Stephen E.) Constraints, constitutive limits, and instability in finite thermoelasticity. (English summary) **2005b:74006**
— *see also* **Bechtel, Stephen E. et al.**
Ruggeri, Tommaso Some recent mathematical results in mixtures theory of Euler fluids. (English summary) (*see* **2005c:00016**)
— (*with* Simić, Srboljub S.) Non linear wave propagation in binary mixtures of Euler fluids. (English summary) (*see* **2005c:00016**)
— (*with* Simić, Srboljub S.) Nonlinear wave propagation in binary mixtures of Euler fluids. (English summary) **2005f:76087**
Sahota, Harsimar *see* **Musolff, A.**
Scanu, A. *see* **Pennisi, Sebastiano, 2005g:80003**
Serdyukov, S. I. Extended irreversible thermodynamics and the Jeffreys type constitutive equations. (English summary) **2005b:80001**
Simić, Srboljub S. *see* **Ruggeri, Tommaso, 2005f:76087** *and* (**2005c:00016**)
Simion, Nicolae Various aspects and interpretations of the second law of thermodynamics. (English summary) **2005d:80003**
Stolz, C. *see* **Dequiedt, J. L., 2005g:74024**
Svendsen, Bob On thermodynamic- and variational-based formulations of models for inelastic continua with internal lengthscales. (English summary) **2005g:74025**
Tarasov, V. E. Fractional hydrodynamic equations for fractal media. (English summary) **2005m:76176**
Triantafyllidis, N. *see* **Kankanala, S. V., 2005g:74045**
Wang, Qi² *see* **Bechtel, Stephen E. et al.**
Wilmański, Krzysztof Tortuosity and objective relative accelerations in the theory of porous materials. (English summary) **2005m:74031**
Yu, Peng (*with* Hu, Shenyang; Chen, Long-Qing; Du, Qiang) An iterative-perturbation scheme for treating inhomogeneous elasticity in phase-field models. (English summary) **2005m:74078**

74A20 Theory of constitutive functions

Aksel, Nuri *see* **Itskov, Mikhail, 2005i:74003**
Bechtel, Stephen E. *see* **Rooney, Francis J., 2005b:74006**
Carini, Angelo (*with* De Donato, Osvaldo) Inelastic analysis by symmetrization of the constitutive law. (English summary) **2005a:74004**
Carlson, Donald E. (*with* Fried, Eliot; Tortorelli, Daniel A.) Geometrically-based consequences of internal constraints. (English summary) **2005b:74005**
De Donato, Osvaldo *see* **Carini, Angelo, 2005a:74004**
Elżanowski, Marek (*with* Parry, G. P.) Material symmetry in a theory of continuously defective crystals. (English summary) **2005j:74001**
Fried, Eliot *see* **Carlson, Donald E. et al., 2005b:74005**
Huang, Bo General expression of elastic tensor for anisotropic materials. (English summary)
Huang, Zaixing On nonlocal residuals and fluctuations. (English summary) **2005a:74005a**
— Corrigendum to: "On nonlocal residuals and fluctuations" [Internat. J. Engrg. Sci. **42** (2004), no. 7, 635–647; MR2038884 (2005a:74005a)]. **2005a:74005b**
— Corrigendum: "On nonlocal residuals and fluctuations" [Internat. J. Engrg. Sci. **42** (2004), no. 7, 635–647; MR2038884 (2005a:74005a)].
Itskov, Mikhail (*with* Aksel, Nuri) A closed-form representation for the derivative of non-symmetric tensor power series. (English summary) **2005i:74003**
Parry, G. P. *see* **Elżanowski, Marek, 2005j:74001**
Rivlin, Ronald S. Frame indifference and relative frame indifference. (English summary) **2005i:74004**
Rooney, Francis J. (*with* Bechtel, Stephen E.) Constraints, constitutive limits, and instability in finite thermoelasticity. (English summary) **2005b:74006**
Testa, Valentina (*with* Vianello, Maurizio) The symmetry group of gradient sensitive fluids. (English summary) **2005j:74002**
Tortorelli, Daniel A. *see* **Carlson, Donald E. et al., 2005b:74005**
Vianello, Maurizio *see* **Testa, Valentina, 2005j:74002**

Items with secondary classifications in 74A20

Aksel, Nuri *see* **Itskov, Mikhail, 2005a:74020**
Annin, B. D. (*with* Korobeĭnikov, S. N.) Generalized conjugate stress and strain tensors. (Russian. Russian summary) **2005m:74002**
Beatty, Millard F. An average-stretch full-network model for rubber elasticity. (English summary) **2005a:74015**
Billington, E. W. Generalisation of Hooke's law for finite strain to include the elastic range of strain-hardening materials. (English summary) **2005f:74013**
Bóna, Andrej (*with* Bucataru, Ioan; Slawinski, Michael A.) Material symmetries of elasticity tensors. (English summary) **2005g:74013**
von Borzeszkowski, Horst-Heino *see* **Herrmann, Heiko et al., 2005d:83088**
Bucataru, Ioan *see* **Bóna, Andrej et al., 2005g:74013**
Burak, Ya. Ĭ. (*with* Kalenyuk, P. Ĭ.; Mīchuda, O. Ya.) On the constitutive relations in the mechanics of inertial elastic systems. (Ukrainian. English summary)
Chang, Chih-Wen *see* **Liu, Chein-Shan, 2005c:74014**
Chevallier, Dominique On the foundations of ordinary and generalized rigid body dynamics and the principle of objectivity. (English summary) **2005e:70004**
Criscione, John C. *see* **Wilber, J. Patrick, 2005i:74012**
Fosdick, Roger L. (*with* Royer-Carfagni, Gianni) Stress as a constraint reaction in rigid bodies. (English summary) **2005f:74004**
Fried, Eliot (*with* Sellers, Shaun) Free-energy density functions for nematic elastomers. (English summary) **2005a:74006**
Gatski, T. B. *see* **Jongen, T., 2005k:76010**
Herrmann, Heiko (*with* Muschik, W.; Rückner, G.; von Borzeszkowski, Horst-Heino) Spin axioms in different geometries of relativistic continuum physics. (English summary) **2005d:83088**
Huang, Mojia (*with* Man, Chi-Sing) Constitutive relation of elastic polycrystal with quadratic texture dependence. (English summary) **2005b:74030**
— Perturbation approach to elastic constitutive relations of polycrystals. (English summary) **2005b:74031**
Huang, Yu-Ning On modelling the Reynolds stress in the context of continuum mechanics. (English summary) **2005a:76089**
Itskov, Mikhail (*with* Aksel, Nuri) A class of orthotropic and transversely isotropic hyperelastic constitutive models based on a polyconvex strain energy function. (English summary) **2005a:74020**
Johansson, Håkan (*with* Runesson, Kenneth) Parameter identification in constitutive models via optimization with a posteriori error control. (English summary) **2005i:74074**
Jongen, T. (*with* Gatski, T. B.) Tensor representations and solutions of constitutive equations for viscoelastic fluids. (English summary) **2005k:76010**
Kalenyuk, P. Ĭ. *see* **Burak, Ya. Ĭ. et al.**
Korobeĭnikov, S. N. *see* **Annin, B. D., 2005m:74002**
Liu, Chein-Shan (*with* Chang, Chih-Wen) Lie group symmetry applied to the computation of convex plasticity constitutive equation. (English summary) **2005c:74014**
— Internal symmetry groups for the Drucker-Prager material model of plasticity and numerical integrating methods. (English summary) **2005c:74013**
Liu, I-Shih ★ Continuum mechanics. **2005c:74001**
Lu, Jia (*with* Papadopoulos, Panayiotis) A covariant formulation of anisotropic finite plasticity: theoretical developments. (English summary) **2005f:74019**
Man, Chi-Sing *see* **Huang, Mojia, 2005b:74030**
Mīchuda, O. Ya. *see* **Burak, Ya. Ĭ. et al.**
Miller, Gregory H. Minimal rotationally invariant bases for hyperelasticity. (English summary) **2005i:74011**
Muschik, W. *see* **Herrmann, Heiko et al., 2005d:83088**
Papadopoulos, Panayiotis *see* **Lu, Jia, 2005f:74019**
Royer-Carfagni, Gianni *see* **Fosdick, Roger L., 2005f:74004**
Rückner, G. *see* **Herrmann, Heiko et al., 2005d:83088**
Runesson, Kenneth *see* **Johansson, Håkan, 2005i:74074**
Sellers, Shaun *see* **Fried, Eliot, 2005a:74006**
Slawinski, Michael A. *see* **Bóna, Andrej et al., 2005g:74013**
Surguladze, T. A. Constitutive relations of viscoelasticity that contain fractional derivatives. (Russian. Russian summary)
Wilber, J. Patrick (*with* Criscione, John C.) The Baker-Ericksen inequalities for hyperelastic models using a novel set of invariants of Hencky strain. (English summary) **2005i:74012**
Wineman, Alan *see* **Zimmermann, Markus, 2005h:74005**
Zimmermann, Markus (*with* Wineman, Alan) On the elastic behavior of scission materials. (English summary) **2005h:74005**

74A25 Molecular, statistical, and kinetic theories

Fried, Eliot (*with* Sellers, Shaun) Free-energy density functions for nematic elastomers. (English summary) **2005a:74006**
Karpov, Eduard G. *see* **Liu, Wing Kam et al., 2005c:74005**
Liu, Wing Kam (*with* Karpov, Eduard G.; Zhang, Sulin; Park, Harold S.) An introduction to computational nanomechanics and materials. (English summary) **2005c:74005**
Park, Harold S. *see* **Liu, Wing Kam et al., 2005c:74005**
Sellers, Shaun *see* **Fried, Eliot, 2005a:74006**
Sugiyama, Masaru A new continuum model of solids incorporating microscopic thermal vibration and its application to wave propagation phenomena. (English summary) (*see* **2005c:00016**)
Wineman, Alan *see* **Zimmermann, Markus, 2005h:74005**
Zhang, Sulin *see* **Liu, Wing Kam et al., 2005c:74005**
Zimmermann, Markus (*with* Wineman, Alan) On the elastic behavior of scission materials. (English summary) **2005h:74005**

Items with secondary classifications in 74A25

Chen, Wen⁴ *see* **Fish, Jacob, 2005d:82118**
Currò, C. *see* **Valenti, G. et al., (2005c:00016)**
Fish, Jacob (*with* Chen, Wen⁴) Discrete-to-continuum bridging based on multigrid principles. (English summary) **2005d:82118**
Huang, Rui² Kinetic wrinkling of an elastic film on a viscoelastic substrate. (English summary)
Karpov, Eduard G. *see* **Park, Harold S. et al., 2005b:82088**
Liu, Wing Kam *see* **Park, Harold S. et al., 2005b:74124** *and* **2005b:82088**
Park, Harold S. (*with* Karpov, Eduard G.; Liu, Wing Kam) A temperature equation for coupled atomistic/continuum simulations. (English summary) **2005b:82088**
— (*with* Liu, Wing Kam) An introduction and tutorial on multiple-scale analysis in solids. (English summary) **2005b:74124**

Sugiyama, Masaru *see* **Valenti, G. et al., (2005c:00016)**
Valenti, G. (*with* Currò, C.; Sugiyama, Masaru) Wave features for a new continuum model of isotropic solids. (English summary) (*see* **2005c:00016**)

74A30 Nonsimple materials

Capriz, Gianfranco (*with* Mariano, Paolo Maria) Symmetries and Hamiltonian formalism for complex materials. (English summary) **2005b:74007**
Mariano, Paolo Maria *see* **Capriz, Gianfranco, 2005b:74007**

Items with secondary classifications in 74A30

Gurtin, Morton E. A gradient theory of small-deformation isotropic plasticity that accounts for the Burgers vector and for dissipation due to plastic spin. (English summary) **2005m:74017**
Huang, Zaixing On nonlocal residuals and fluctuations. (English summary) **2005a:74005a**
— Corrigendum to: "On nonlocal residuals and fluctuations" [Internat. J. Engrg. Sci. **42** (2004), no. 7, 635–647; MR2038884 (2005a:74005a)]. **2005a:74005b**
— Corrigendum: "On nonlocal residuals and fluctuations" [Internat. J. Engrg. Sci. **42** (2004), no. 7, 635–647; MR2038884 (2005a:74005a)].
Pitteri, Mario On certain weak phase transformations in multilattices. (English summary) **2005j:74045**

74A35 Polar materials

Dyszlewicz, Janusz ★ Micropolar theory of elasticity. **2005a:74007**
Grioli, Giuseppe Microstructures as a refinement of Cauchy theory. Problems of physical concreteness. (English summary) **2005a:74008**
Lazar, Markus (*with* Maugin, Gérard A.) Defects in gradient micropolar elasticity. I. Screw dislocation. (English summary) **2005g:74003**
— (*with* Maugin, Gérard A.) Defects in gradient micropolar elasticity. II. Edge dislocation and wedge disclination. (English summary) **2005g:74004**
Maugin, Gérard A. *see* **Lazar, Markus, 2005g:74003** *and* **2005g:74004**
Svanadze, Merab Fundamental solution of the system of equations of steady oscillations in the theory of microstretch elastic solids. (English summary) **2005g:74005**
Zubov, Leonid M. Continuously distributed dislocations and disclinations in nonlinearly elastic micropolar media. (Russian)

Items with secondary classifications in 74A35

Capriz, Gianfranco (*with* Mariano, Paolo Maria) Symmetries and Hamiltonian formalism for complex materials. (English summary) **2005b:74007**
Cattani, Carlo (*with* Rushchits′kiĭ, Ya. Ya.) Cubically nonlinear elastic waves versus quadratically ones. Main wave effects. (English and Ukrainian summaries) **2005c:74046**
El-Karamany, Ahmed S. Maysel's formula in the generalized linear micropolar thermoviscoelasticity. (English summary) **2005g:74036**
Mariano, Paolo Maria *see* **Capriz, Gianfranco, 2005b:74007**
Midya, G. K. On Love-type surface waves in homogeneous micropolar elastic media. (English summary) **2005b:74066**
Rushchits′kiĭ, Ya. Ya. *see* **Cattani, Carlo, 2005c:74046**

74A40 Random materials and composite materials

Items with secondary classifications in 74A40

Meliani, Salha (*with* Panasenko, Grigory) Thermo-chemical modelling of the formation of a composite material. (English summary) **2005m:35148**
Panasenko, Grigory *see* **Meliani, Salha, 2005m:35148**

74A45 Theories of fracture and damage

Benvenuti, E. (*with* Loret, B.; Tralli, A.) A unified multifield formulation in nonlocal damage. (English summary) **2005a:74009**
Bonetti, Elena (*with* Frémond, Michel) Damage theory: microscopic effects of vanishing macroscopic motions. (English summary) **2005b:74008**
— (*with* Schimperna, Giulio) Local existence for Frémond's model of damage in elastic materials. (English summary) **2005d:74001**
Frémond, Michel *see* **Bonetti, Elena, 2005b:74008**
Huespe, A. E. *see* **Oliver, Javier, 2005a:74010**
Loret, B. *see* **Benvenuti, E. et al., 2005a:74009**
Oliver, Javier (*with* Huespe, A. E.) Continuum approach to material failure in strong discontinuity settings. (English summary) **2005a:74010**
Schimperna, Giulio *see* **Bonetti, Elena, 2005d:74001**
Tralli, A. *see* **Benvenuti, E. et al., 2005a:74009**

Items with secondary classifications in 74A45

Cherkaev, Andrej (*with* Cherkaeva, Elena; Slepyan, Leonid) Transition waves in bistable structures. I. Delocalization of damage. (English summary) **2005i:74046**
— *see also* **Slepyan, Leonid et al., 2005i:74047**
Cherkaeva, Elena *see* **Cherkaev, Andrej et al., 2005i:74046** *and* **Slepyan, Leonid et al., 2005i:74047**
Lennon, A. B. (*with* Prendergast, P. J.) Modelling damage growth and failure in elastic materials with random defect distributions. (English summary) **2005m:74087**
Mariano, Paolo Maria Influence of the material substructure on crack propagation: a unified treatment. (English summary) **2005j:74053**
Prendergast, P. J. *see* **Lennon, A. B., 2005m:74087**
(Saanouni, Khémais) *see* **Numerical modelling in damage mechanics, 2005b:74002**
Slepyan, Leonid (*with* Cherkaev, Andrej; Cherkaeva, Elena) Transition waves in bistable structures. II. Analytical solution: wave speed and energy dissipation. (English summary) **2005i:74047**
— *see also* **Cherkaev, Andrej et al., 2005i:74046**

Items listed otherwise than by author

Numerical modelling in damage mechanics ★ Numerical modelling in damage mechanics. **2005b:74002**
Troyes ★ Numerical modelling in damage mechanics. **2005b:74002**

74A50 Structured surfaces and interfaces, coexistent phases

Items with secondary classifications in 74A50

Alikakos, Nicholas D. (*with* Fusco, Giorgio) Ostwald ripening for dilute systems under quasistationary dynamics. (English summary) **2005e:82073**
— (*with* Fusco, Giorgio; Karali, Georgia) The effect of the geometry of the particle distribution in Ostwald ripening. (English summary) **2005e:82074**
Bhattacharya, Kaushik *see* **Jabbour, Michel E., 2005b:74099**
Buratti, Giovanni (*with* Huo, Yongzhong; Müller, Ingo) Eshelby tensor as a tensor of free enthalpy. (English summary) **2005a:74003**
Freidin, A. B. *see* **Fu, Yibin B., 2005g:74097**
Fu, Yibin B. (*with* Freidin, A. B.) Characterization and stability of two-phase piecewise-homogeneous deformations. (English summary) **2005g:74097**
Fusco, Giorgio *see* **Alikakos, Nicholas D. et al., 2005e:82073** *and* **2005e:82074**
Huo, Yongzhong *see* **Buratti, Giovanni et al., 2005a:74003**
Ivanova, A. N. (*with* Kuchanov, S. I.; Manevich, L. I.) Bifurcation analysis for the construction of a phase diagram of heteropolymer liquids. (English summary) **2005k:80005**
Jabbour, Michel E. (*with* Bhattacharya, Kaushik) A continuum theory of multispecies thin solid film growth by chemical vapor deposition. (English summary) **2005b:74099**
Karali, Georgia *see* **Alikakos, Nicholas D. et al., 2005e:82074**
Kuchanov, S. I. *see* **Ivanova, A. N. et al., 2005k:80005**
Manevich, L. I. *see* **Ivanova, A. N. et al., 2005k:80005**
Müller, Ingo *see* **Buratti, Giovanni et al., 2005a:74003**

74A60 Micromechanical theories

Blanc, Xavier (*with* Le Bris, Claude) Définition d'énergies d'interfaces à partir de modèles atomiques. (English and French summaries) [A definition of interface energies using atomistic models] **2005m:74003**
Casey, James On Volterra dislocations of finitely deforming continua. (English summary) **2005k:74004**
Chen, Jiun-Shyan (*with* Mehraeen, Shafigh) Variationally consistent multi-scale modeling and homogenization of stressed grain growth. (English summary) **2005b:74009**
De Cicco, S. (*with* Nappa, L.) Singular surfaces in thermoviscoelastic materials with voids. (English summary) **2005b:74010**
Duda, F. P. (*with* Šilhavý, M.) Dislocation walls in crystals under single slip. (English summary) **2005i:74005**
Göktepe, S. *see* **Miehe, Christian et al., 2005e:74003**
Ieşan, D. On the nonlinear theory of interacting micromorphic materials. (English summary) **2005f:74007**
Le Bris, Claude *see* **Blanc, Xavier, 2005m:74003**
Lulei, F. *see* **Miehe, Christian et al., 2005e:74003**
Mehraeen, Shafigh *see* **Chen, Jiun-Shyan, 2005b:74009**
Miehe, Christian (*with* Göktepe, S.; Lulei, F.) A micro-macro approach to rubber-like materials. I. The non-affine micro-sphere model of rubber elasticity. (English summary) **2005e:74003**
Nappa, L. *see* **De Cicco, S., 2005b:74010**
Šilhavý, M. *see* **Duda, F. P., 2005i:74005**

Items with secondary classifications in 74A60

Aifantis, K. E. (*with* Willis, John R.) The role of interfaces in enhancing the yield strength of composites and polycrystals. (English summary) **2005j:74007**
Bauman, Paul *see* **Oden, J. Tinsley et al., 2005m:74034**
Benveniste, Y. *see* **He, Qi-Chang, 2005e:74013**
Ciarletta, Michele (*with* Scalia, Antonio) Some results in linear theory of thermomicrostretch elastic solids. (English summary) **2005a:74032**
Dyszlewicz, Janusz ★ Micropolar theory of elasticity. **2005a:74007**
Gardiner, B. S. *see* **Tordesillas, A. et al., 2005g:74031**
Gawinecki, Jerzy (*with* Kirchner, Gerhard; Łazuka, Jarosław) The fundamental matrix of the system of linear micropolar elasticity. (English summary) **2005k:35031**
Grioli, Giuseppe Microstructures as a refinement of Cauchy theory. Problems of physical concreteness. (English summary) **2005a:74008**
Gürses, E. *see* **Miehe, Christian et al., 2005f:74020**
He, Qi-Chang (*with* Benveniste, Y.) Exactly solvable spherically anisotropic thermoelastic microstructures. (English summary) **2005e:74013**
Ieşan, D. (*with* Quintanilla, R.) On the plane strain of thermo-microstretch elastic solids. (English summary) **2005g:74014**
— Second-order effects in the torsion of elastic materials with voids. (English summary) **2005m:74011**
Kirchner, Gerhard *see* **Gawinecki, Jerzy et al., 2005k:35031**
Lambrecht, Matthias *see* **Miehe, Christian et al., 2005f:74020**
Lazar, Markus (*with* Maugin, Gérard A.) Defects in gradient micropolar elasticity. I. Screw dislocation. (English summary) **2005g:74003**
— (*with* Maugin, Gérard A.) Defects in gradient micropolar elasticity. II. Edge dislocation and wedge disclination. (English summary) **2005g:74004**
Łazuka, Jarosław *see* **Gawinecki, Jerzy et al., 2005k:35031**
Maugin, Gérard A. *see* **Lazar, Markus, 2005g:74003** *and* **2005g:74004**
Miehe, Christian (*with* Lambrecht, Matthias; Gürses, E.) Analysis of material instabilities in inelastic solids by incremental energy minimization and relaxation methods: evolving deformation microstructures in finite plasticity. (English summary) **2005f:74020**
Oden, J. Tinsley (*with* Prudhomme, S.; Bauman, Paul) On the extension of goal-oriented error estimation and hierarchical modeling to discrete lattice models. (English summary) **2005m:74034**

Pastrone, Franco Wave propagation in microstructured solids. (English summary) **2005m:74051**
Podio-Guidugli, Paolo On the choice of inertial interactions in microstructured continua. (Italian. English and Italian summaries) **2005f:74010**
Prudhomme, S. *see* **Oden, J. Tinsley et al., 2005m:74034**
Quintanilla, R. *see* **Ieşan, D., 2005g:74014**
Sage, Daniel S. Quantum Racah coefficients and subrepresentation semirings. (English summary) **2005i:17023**
Scalia, Antonio *see* **Ciarletta, Michele, 2005a:74032**
Tordesillas, A. (*with* Walsh, S. D. C.; Gardiner, B. S.) Bridging the length scales: micromechanics of granular media. (English summary) **2005g:74031**
Walsh, S. D. C. *see* **Tordesillas, A. et al., 2005g:74031**
Willis, John R. *see* **Aifantis, K. E., 2005j:74007**

74A99 None of the above, but in this section

Askes, Harm (*with* Kuhl, Ellen; Steinmann, Paul) An ALE formulation based on spatial and material settings of continuum mechanics. II. Classification and applications. (English summary) **2005g:74011**
— *see also* **Kuhl, Ellen et al., 2005g:74010**
Bertram, Albrecht (*with* Svendsen, Bob) Reply to R. S. Rivlin's "Material symmetry revisited" [GAMM Mitt. Ges. Angew. Math. Mech. **25** (2002), no. 1-2, 109–126; MR2016827 (2004i:74009)] or much ado about nothing. (English summary) **2005g:74006**
Boulanger, Ph. (*with* Hayes, Michael A.) On Jaeger shearing. (English summary) **2005b:74011**
Bucataru, Ioan (*with* Epstein, Marcelo) Geometrical theory of dislocations in bodies with microstructure. (English summary) **2005h:74006**
Burak, Ya. Ĭ. (*with* Moroz, G. Ĭ.) On two versions of a variational formulation of boundary value problems of the nonlinear mechanics of elastic systems. (Ukrainian. English, Russian and Ukrainian summaries) **2005g:74007**
Buryachenko, V. A. (*with* Pagano, N. J.) The multiscale analysis of multiple interacting inclusions problem: finite number of interacting inclusions. (English summary) **2005h:74007**
Carroll, M. M. Derivatives of the rotation and stretch tensors. (English summary) **2005g:74008**
Casey, James Pseudo-rigid continua: basic theory and a geometrical derivation of Lagrange's equations. (English summary) **2005b:74012**
Chen, Yi-Chao *see* **Dui, Guansuo, 2005k:74005**
Connelly, Robert *see* **Donev, Aleksandar Nikola et al., 2005a:74011**
Del Piero, Gianpietro A class of fit regions and a universe of shapes for continuum mechanics. (English summary) **2005b:74013**
Deseri, Luca (*with* Owen, David Ross) Toward a field theory for elastic bodies undergoing disarrangements. (English summary) **2005f:74008**
Donev, Aleksandar Nikola (*with* Torquato, Salvatore; Stillinger, Frank H.; Connelly, Robert) A linear programming algorithm to test for jamming in hard-sphere packings. (English summary) **2005a:74011**
Dui, Guansuo (*with* Jin, Ming; Huang, Haiming) On the derivation for the gradients of the principal invariants. (English summary) **2005g:74009**
— (*with* Chen, Yi-Chao) A note on Rivlin's identities and their extension. (English summary) **2005k:74005**
— Discussion on: "Exact expansions of arbitrary tensor functions $\mathbf{F}(\mathbf{A})$ and their derivatives" [Internat. J. Solids Structures **41** (2004), no. 2, 337–349; MR2027212 (2004j:74011)] by J. Lu.
Elżanowski, Marek *see* **Epstein, Marcelo, 2005b:74014**
Epstein, Marcelo (*with* Elżanowski, Marek) A model of the evolution of a two-dimensional defective structure. (English summary) **2005b:74014**
— *see also* **Bucataru, Ioan, 2005h:74006**
Fosdick, Roger L. (*with* Royer-Carfagni, Gianni) A Stokes theorem for second-order tensor fields and its implications in continuum mechanics. (English summary) **2005f:74009**
Ganti, S. *see* **Sharma, Pradeep, 2005m:74005**
Glicksman, Martin E. Boundary motion in polyhedral space-filling networks. (English summary) (*see* **2005b:65003**)
Godunov, Sergeĭ Konstantinovich (*with* Romenskii, Evgenii I.) ★ Elements of continuum mechanics and conservation laws. **2005e:74004**
Hayes, Michael A. *see* **Boulanger, Ph., 2005b:74011**
Huang, Haiming *see* **Dui, Guansuo et al., 2005g:74009**
Itskov, Mikhail Comments on: "Exact expansions of arbitrary tensor functions $\mathbf{F}(\mathbf{A})$ and their derivatives" [Internat. J. Solids Structures **41** (2004), no. 2, 337–349; MR2027212 (2004j:74011)] by J. Lu. (English summary)
Jin, Ming *see* **Dui, Guansuo et al., 2005g:74009**
Konchakova, N. A. On the construction of continua with nonsymmetric tensors. (Russian. Russian summary) **2005b:74015**
Kuhl, Ellen (*with* Askes, Harm; Steinmann, Paul) An ALE formulation based on spatial and material settings of continuum mechanics. I. Generic hyperelastic formulation. (English summary) **2005g:74010**
— *see also* **Askes, Harm et al., 2005g:74011**
Li, Shaofan On dual conservation laws in linear elasticity: stress function formalism. (English summary) **2005c:74006**
(Lu, Jia) *see* **Itskov, Mikhail** *and* **Dui, Guansuo**
Lubensky, T. C. *see* **Stenull, Olaf, 2005f:74011**
Mal'tseva, T. V. (*with* Trefilina, E. R.) Modeling a two-phase body taking into account the carrying capacity of the fluid phase. (Russian. English and Russian summaries)
Moroz, G. Ĭ. *see* **Burak, Ya. Ĭ., 2005g:74007**
Mosconi, Marco A variational approach to porous elastic bodies. (English summary) **2005m:74004**
Musesti, Alessandro The balance equations of continuum mechanics in geometric measure theory. (Italian. English and Italian summaries) **2005a:74012**
Myasnikov, V. P. (*with* Sadovskiĭ, V. M.) Variational principles of the theory of limit equilibrium of media with different strengths. (Russian. Russian summary) **2005e:74005**
Owen, David Ross *see* **Deseri, Luca, 2005f:74008**
Pagano, N. J. *see* **Buryachenko, V. A., 2005h:74007**
Podio-Guidugli, Paolo On the choice of inertial interactions in microstructured continua. (Italian. English and Italian summaries) **2005f:74010**
Prokopovich, Ĭ. B. General properties of nonlinear equations of stress-free deformations. (Ukrainian. English, Russian and Ukrainian summaries)
Rajagopal, Kumbakonam (*with* Srinivasa, A. R.) On the role of the Eshelby energy-momentum tensor in materials with multiple natural configurations. (English summary) **2005h:74008**
(Rivlin, Ronald S.) *see* **Bertram, Albrecht, 2005g:74006**
Romenskii, Evgenii I. *see* **Godunov, Sergeĭ Konstantinovich, 2005e:74004**
Royer-Carfagni, Gianni *see* **Fosdick, Roger L., 2005f:74009**
(Rozhkovskaya, Tamara) *see* **Godunov, Sergeĭ Konstantinovich, 2005e:74004**
Saccomandi, Giuseppe *see* **Vitolo, Raffaele, 2005i:74006**
Sadovskiĭ, V. M. *see* **Myasnikov, V. P., 2005e:74005**
Scholle, Markus Construction of Lagrangians in continuum theories. (English summary) **2005g:74012**
Sharma, Pradeep (*with* Ganti, S.) Gauge-field-theory solution of the elastic state of a screw dislocation in a dispersive (non-local) crystalline solid. (English summary) **2005m:74005**
Srinivasa, A. R. *see* **Rajagopal, Kumbakonam, 2005h:74008**
Steinmann, Paul *see* **Kuhl, Ellen et al., 2005g:74010** *and* **Askes, Harm et al., 2005g:74011**
Stenull, Olaf (*with* Lubensky, T. C.) Dynamics of nematic elastomers. (English summary) **2005f:74011**
Stillinger, Frank H. *see* **Donev, Aleksandar Nikola et al., 2005a:74011**
Şuhubi, Erdoğan S. Equivalence groups for balance equations of arbitrary order. I. **2005f:74012**
— Explicit determination of isovector fields of equivalence groups for balance equations of arbitrary order. II. (English summary) **2005h:74009**
Svendsen, Bob *see* **Bertram, Albrecht, 2005g:74006**
Torquato, Salvatore *see* **Donev, Aleksandar Nikola et al., 2005a:74011**
Trefilina, E. R. *see* **Mal'tseva, T. V.**
Vitolo, Raffaele (*with* Saccomandi, Giuseppe) Null Lagrangians in a theory for nematic elastomers. (Russian. English and Russian summaries) **2005i:74006**

Items with secondary classifications in 74A99

Abeyaratne, Rohan *see* **Weckner, Olaf, 2005h:74038**
Belaidi, Ahmed *see* **Ribotta, Roland et al., 2005e:76008**
Bevilacqua, Luiz A geometric approach to the mechanics of densely folded media. (English summary) **2005b:74082**
von Borzeszkowski, Horst-Heino *see* **Herrmann, Heiko et al., 2005d:83088**
Bouby, C. (*with* Fortuné, Danielle; Pietraszkiewicz, Wojciech; Vallée, Claude) Direct determination of the rotation in the polar decomposition of the deformation gradient by maximizing a Rayleigh quotient. (English summary) **2005k:74009**
Capriz, Gianfranco (*with* Mullenger, George) Dynamics of granular fluids. (English summary) **2005g:76125**
Christov, Christo I. On the analogy between the Maxwell electromagnetic field and the elastic continuum. (English summary)
Cowin, S. C. *see* **Mehrabadi, M. M. et al., 2005m:76009**
Fortuné, Danielle *see* **Bouby, C. et al., 2005k:74009**
Fried, Eliot (*with* Gurtin, Morton E.; Hutter, Kolumban) A void-based description of compaction and segregation in flowing granular materials. (English summary) **2005e:74010**
Gudkov, V. A. *see* **Radaev, Yu. N., 2005j:70060**
Gurtin, Morton E. *see* **Fried, Eliot et al., 2005e:74010**
He, Ji Huan Validity of Liu's systematic method on variational principles. (English and Serbian summaries) **2005d:49067**
Herrmann, Heiko (*with* Muschik, W.; Rückner, G.; von Borzeszkowski, Horst-Heino) Spin axioms in different geometries of relativistic continuum physics. (English summary) **2005d:83088**
Horgan, Cornelius O. (*with* Murphy, Jeremiah G.) A Lie group analysis of the axisymmetric equations of finite elastostatics for compressible materials. (English summary) **2005m:74010**
Hutter, Kolumban *see* **Fried, Eliot et al., 2005e:74010**
Joets, Alain *see* **Ribotta, Roland et al., 2005e:76008**
Klarbring, Anders (*with* Olsson, Tobias) On compatible strain with reference to biomechanics of soft tissues. (English summary) **2005m:74064**
Kokarev, S. S. D-object kinematics on smooth manifolds. (English and Russian summaries) **2005k:58033**
de León, Manuel *see* **Marín, David, 2005i:53024**
Li, Bo[1] (*with* Liu, Jian-Guo[1]) Epitaxial growth without slope selection: energetics, coarsening, and dynamic scaling. (English summary) **2005k:35202**
Liu, Jian-Guo[1] *see* **Li, Bo[1], 2005k:35202**
Majumdar, Apala (*with* Robbins, J. M.; Zyskin, M.) Elastic energy of liquid crystals in convex polyhedra. (English summary) **2005f:58017**
Marín, David (*with* de León, Manuel) Classification of material G-structures. (English summary) **2005i:53024**
Massoudi, M. *see* **Mehrabadi, M. M. et al., 2005m:76009**
Mehrabadi, M. M. (*with* Cowin, S. C.; Massoudi, M.) Conservation laws and constitutive relations for density-gradient-dependent viscous fluids. (English summary) **2005m:76009**
Meister, L. (*with* Schaeben, Helmut) A concise quaternion geometry of rotations. (English summary) **2005g:74029**
Merlini, T. (*with* Morandini, Marco) The helicoidal modeling in computational finite elasticity. I. Variational formulation. (English summary) **2005d:74004**
— (*with* Morandini, Marco) The helicoidal modeling in computational finite elasticity. II. Multiplicative interpolation. (English summary) **2005d:74005**
— *see also* **Errata: "The helicoidal modeling in computational finite elasticity. II. Multiplicative interpolation"**
Morandini, Marco *see* **Merlini, T., 2005d:74004; 2005d:74005** *and* **Errata: "The helicoidal modeling in computational finite elasticity. II. Multiplicative interpolation"**
Mullenger, George *see* **Capriz, Gianfranco, 2005g:76125**

Murphy, Jeremiah G. *see* **Horgan, Cornelius O., 2005m:74010**
Muschik, W. *see* **Herrmann, Heiko et al., 2005d:83088**
Olsson, Tobias *see* **Klarbring, Anders, 2005m:74064**
Özer, Saadet (*with* Şuhubi, Erdoğan S.) Equivalence groups for first-order balance equations and applications to electromagnetism. (Russian. Russian summary) **2005d:78006**
— (*with* Şuhubi, Erdoğan S.) Equivalence transformations for first order balance equations. (English summary) **2005b:35024**
Pence, Thomas J. (*with* Tsai, Hungyu) Swelling-induced microchannel formation in nonlinear elasticity. (English summary) **2005h:74021**
Pietraszkiewicz, Wojciech *see* **Bouby, C. et al., 2005k:74009**
Radaev, Yu. N. (*with* Gudkov, V. A.) On the computation of null-Lagrangians of a nonlinearly elastic field. (Russian. English and Russian summaries) **2005j:70060**
Ribotta, Roland (*with* Belaidi, Ahmed; Joets, Alain) Singularities, defects and chaos in organized fluids. (English summary) **2005e:76008**
Robbins, J. M. *see* **Majumdar, Apala et al., 2005f:58017**
Rubinstein, Jacob (*with* Wolansky, Gershon) A weighted least action principle for dispersive waves. (English summary) **2005m:35169**
Rückner, G. *see* **Herrmann, Heiko et al., 2005d:83088**
Schaeben, Helmut *see* **Meister, L., 2005g:74029**
Sławianowski, Jan J. Classical and quantum collective dynamics of deformable objects. Symmetry and integrability problems. (English summary) **2005e:70024**
Şuhubi, Erdoğan S. *see* **Özer, Saadet, 2005b:35024** *and* **2005d:78006**
Tsai, Hungyu *see* **Pence, Thomas J., 2005h:74021**
Tucker, Robin W. Classical field-particle dynamics in space-time geometries. (English summary) **2005j:83084**
Vallée, Claude *see* **Bouby, C. et al., 2005k:74009**
Weckner, Olaf (*with* Abeyaratne, Rohan) The effect of long-range forces on the dynamics of a bar. (English summary) **2005h:74038**
Wolansky, Gershon *see* **Rubinstein, Jacob, 2005m:35169**
Zohdi, T. I. Charge-induced clustering in multifield particulate flows. (English summary) **2005h:76081**
Zyskin, M. *see* **Majumdar, Apala et al., 2005f:58017**

Items listed otherwise than by author

Errata:
"The helicoidal modeling in computational finite elasticity. II. Multiplicative interpolation" Erratum: "The helicoidal modeling in computational finite elasticity. II. Multiplicative interpolation" [Internat. J. Solids Structures **41** (2004), no. 18-19, 5383–5409; MR2085918 (2005d:74005)] by T. Merlini and M. Morandini.

74Bxx Elastic materials

Items with secondary classifications in 74Bxx

Dyszlewicz, Janusz ★ Micropolar theory of elasticity. **2005a:74007**

74B05 Classical linear elasticity

Barber, James R. Stresses in a half space due to Newtonian gravitation. (English summary)
Bóna, Andrej (*with* Bucataru, Ioan; Slawinski, Michael A.) Characterization of elasticity-tensor symmetries using SU(2). (English summary) **2005k:74006**
— (*with* Bucataru, Ioan; Slawinski, Michael A.) Material symmetries of elasticity tensors. (English summary) **2005g:74013**
Borodachev, N. M. On a representation of the solution of equations in the linear theory of elasticity. (Russian. English, Russian and Ukrainian summaries) **2005m:74006**
Brokate, Martin (*with* Khludnev, A. M.) On crack propagation shapes in elastic bodies. (English summary) **2005a:74013**
Bucataru, Ioan *see* **Bóna, Andrej et al., 2005g:74013** *and* **2005k:74006**
Cai, Hongxue *see* **Chadwick, Richard S. et al., 2005a:74014**
Chadwick, Richard S. (*with* Shoelson, Brett; Cai, Hongxue) Surface Green's functions for an incompressible, transversely isotropic elastic half-space. (English summary) **2005a:74014**
Chiriță, Stan Further results on the spatial behaviour in linear elastodynamics. (English summary) **2005m:74007**
Dong, Chunying (*with* Lee, Kang Yong) A new integral equation formulation of two-dimensional inclusion-crack problems. (English summary)
Georgievskiĭ, D. V. (*with* Pobedrya, B. E.) On the number of independent compatibility equations in the mechanics of a deformable solid. (Russian. Russian summary) **2005m:74008**
Gupta, Anurag *see* **Li, Shaofan et al., 2005j:74003**
Ieşan, D. (*with* Quintanilla, R.) On the plane strain of thermo-microstretch elastic solids. (English summary) **2005g:74014**
Inan, E. *see* **Kiris, A.**
Khludnev, A. M. *see* **Brokate, Martin, 2005a:74013**
Kiris, A. (*with* Inan, E.) Eshelby tensors for a spherical inclusion in microelongated elastic fields. (English summary)
Kucher, V. A. (*with* Markenscoff, Xanthippi; Paukshto, M. V.) Some properties of the boundary value problem of linear elasticity in terms of stresses. (English summary) **2005b:74016**
Langenbach, Arno Über einige Modellgleichungen der Mechanik in der Funktionalanalysis. [On some model equations of mechanics in functional analysis] (*see* **2005g:00013**)
Lee, Kang Yong *see* **Dong, Chunying**
Li, Shaofan On dual conservation laws in planar elasticity. (English summary) **2005b:74017**
— (*with* Gupta, Anurag; Markenscoff, Xanthippi) Conservation laws of linear elasticity in stress formulations. (English summary) **2005j:74003**
Maksimova, L. A. Isotropy conditions in generalized variables. (Russian. Russian summary)
Mantič, V. *see* **Vodička, R., 2005c:74007**
Markenscoff, Xanthippi *see* **Kucher, V. A. et al., 2005b:74016** *and* **Li, Shaofan et al., 2005j:74003**
Mitrea, Irina On the traction problem for the Lamé system on curvilinear polygons. (English summary) **2005h:74010**
Paukshto, M. V. *see* **Kucher, V. A. et al., 2005b:74016**
Pelekanos, George *see* **Sevroglou, Vassilios, 2005b:74018**
Pobedrya, B. E. A static problem in the nonsymmetric theory of elasticity for an isotropic medium. (Russian. Russian summary)
— *see also* **Georgievskiĭ, D. V., 2005m:74008**
Quintanilla, R. *see* **Ieşan, D., 2005g:74014**
Sevroglou, Vassilios (*with* Pelekanos, George) Two-dimensional elastic Herglotz functions and their applications in inverse scattering. (English summary) **2005b:74018**
Shoelson, Brett *see* **Chadwick, Richard S. et al., 2005a:74014**
Slawinski, Michael A. *see* **Bóna, Andrej et al., 2005g:74013** *and* **2005k:74006**
de Souza Neto, E. A. On general isotropic tensor functions of one tensor. (English summary) **2005e:74006**
Stampouloglou, I. H. *see* **Theotokoglou, E. E.**
Theotokoglou, E. E. (*with* Stampouloglou, I. H.) The plane wedge problem loaded at its apex—the self-similarity property and the characteristic vector. (English summary)
Ting, T. C. T. Green's functions for a bimaterial consisting of two orthotropic quarter planes subjected to an antiplane force and a screw dislocation. (English summary) **2005j:74004**
Vigak, V. M. Correct solutions of plane problems in the theory of elasticity for a half-plane. (Russian. English and Ukrainian summaries) **2005k:74007**
Vodička, R. (*with* Mantič, V.) On invertibility of elastic single-layer potential operator. (English summary) **2005c:74007**

Items with secondary classifications in 74B05

Agalovyan, L. A. (*with* Asratyan, M. G.; Gevorkyan, R. S.) On a nonclassical mixed boundary value problem in the theory of elasticity for an anisotropic strip of variable width. (Russian. Russian and Armenian summaries) **2005m:74033**
Akmaz, Hakan K. *see* **Yakhno, V. G., 2005g:74057**
Asratyan, M. G. *see* **Agalovyan, L. A. et al., 2005m:74033**
Auricchio, Ferdinando (*with* Beirão da Veiga, L.; Lovadina, Carlo; Reali, A.) An analysis of some mixed-enhanced finite element for plane linear elasticity. (English summary) **2005m:74091**
Avalishvili, G. *see* **Gordeziani, David et al., 2005h:65209**
Avalishvili, M. *see* **Gordeziani, David et al., 2005h:65209**
Basheleishvili, M. Explicit solutions of the basic boundary value problems of statics of the elastic mixture theory for an annulus. (English summary) **2005a:74035**
Beirão da Veiga, L. *see* **Auricchio, Ferdinando et al., 2005m:74091**
Bellieud, Michel (*with* Gruais, Isabelle) Homogenization of an elastic material reinforced by very stiff or heavy fibers. Non-local effects. Memory effects. (English and French summaries) **2005k:35013**
Bîrsan, Mircea The solution of Saint-Venant's problem in the theory of Cosserat shells. (English summary) **2005g:74080**
Blesgen, Thomas (*with* Weikard, U.) A sharp interface model for phase transitions in crystals with linear elasticity. (English summary) **2005g:74094**
Bresch, Didier (*with* Koko, Jonas) An optimization-based domain decomposition method for nonlinear wall laws in coupled systems. (English summary) **2005i:65206**
Cai, Zhiqiang (*with* Starke, Gerhard) First-order system least squares for the stress-displacement formulation: linear elasticity. (English summary) **2005e:65180**
— (*with* Starke, Gerhard) Least-squares methods for linear elasticity. (English summary) **2005i:65179**
— (*with* Korsawe, Johannes; Starke, Gerhard) An adaptive least squares mixed finite element method for the stress-displacement formulation of linear elasticity. (English summary) **2005i:65181**
Caparrini, Sandro (*with* Pastrone, Franco) E. Frola (1906–1962): an attempt towards an axiomatic theory of elasticity. (English summary) **2005b:74001**
Chkadua, Otar Solvability and asymptotics of solutions of crack-type boundary-contact problems of the couple-stress elasticity. (English summary) **2005c:35278**
Colombo, Fabrizio (*with* Tomarelli, Franco) Boundary value problems and obstacle problem for elastic bodies with free cracks. **2005m:74085**
Costabel, Martin (*with* Dauge, Monique; Yosibash, Zohar) A quasi-dual function method for extracting edge stress intensity functions. (English summary) **2005c:35068**
Crampton, A. *see* **Talbot, C. J., 2005m:65252**
Crowdy, Darren (*with* Fokas, A. S.) Explicit integral solutions for the plane elastostatic semi-strip. (English summary) **2005c:74027**
Dauge, Monique *see* **Costabel, Martin et al., 2005c:35068**
Deĭneka, V. S. *see* **Sergienko, Ivan V., 2005h:49063**
Denisyuk, I. T. On the stress state of three-dimensional bodies with nonsmooth inclusions. (Russian. English and Ukrainian summaries)
Duan, Huo-Yuan (*with* Lin, Qun[1]) Mixed finite elements of least-squares type for elasticity. (English summary) **2005j:74054**
Durán, Ricardo G. (*with* Muschietti, Maria Amelia) The Korn inequality for Jones domains. (English summary) **2005g:35284**
England, A. H. Complex variable solutions for an inhomogeneous thick plate containing a hole or a crack. (English summary) **2005g:74075**
Ernst, Emil On the existence of positive eigenvalues for the isotropic linear elasticity system with negative shear modulus. (English summary) **2005g:35285**
Faugeras, Blaise (*with* Pousin, Jérôme) Variational asymptotic derivation of an elastic model arising from the problem of 3D automatic segmentation of cardiac images. (English summary) **2005h:74042**
Flemisch, Bernd (*with* Puso, Michael A.; Wohlmuth, Barbara I.) A new dual mortar method for curved interfaces: 2D elasticity. (English summary) **2005m:74092**
Fokas, A. S. *see* **Crowdy, Darren, 2005c:74027**
Fosdick, Roger L. (*with* Truskinovsky, Lev) About Clapeyron's theorem in linear elasticity. (English summary) **2005h:74002**
— (*with* Royer-Carfagni, Gianni) A Stokes theorem for second-order tensor fields and its implications in continuum mechanics. (English summary) **2005f:74009**

Freddi, Lorenzo (*with* Morassi, Antonino; Paroni, Roberto) Thin-walled beams: the case of the rectangular cross-section. (English summary) **2005k:74049**
(Frola, E.) *see* **Caparrini, Sandro**, **2005b:74001**
Gao, Yang[4] *see* **Zhao, Yingtao et al.**, **2005f:74023**
Gevorkyan, R. S. *see* **Agalovyan, L. A. et al.**, **2005m:74033**
Goldfeld, P. Balancing Neumann-Neumann for (in)compressible linear elasticity and (generalized) Stokes—parallel implementation. (*see* **2005f:65003**)
Gordeziani, David (*with* Avalishvili, G.; Avalishvili, M.) On the investigation of a dimensional reduction method for elliptic problems. (English and Georgian summaries) **2005h:65209**
Griebel, Michael (*with* Oeltz, Daniel; Schweitzer, Marc Alexander) An algebraic multigrid method for linear elasticity. (English summary) **2005a:74036**
Gruais, Isabelle *see* **Bellieud, Michel**, **2005k:35013**
Gutiérrez, Sergio Laminations in planar anisotropic linear elasticity. (English summary) **2005k:74068**
Hild, Patrick Non-unique slipping in the Coulomb friction model in two-dimensional linear elasticity. (English summary) **2005a:74071**
Imanuvilov, Oleg Yurievich (*with* Yamamoto, Masahiro) Carleman estimate for a stationary isotropic Lamé system and the applications. (English summary) **2005a:35036**
Janjgava, R. General solutions of stretch-press and bending equations of binary mixtures using I. Vekua's method for $N = 1$ approximation. (Georgian summary) **2005e:74034**
Kamotskiĭ, V. V. On the incidence of a plane wave on an elastic wedge at a critical angle. (Russian. Russian summary) **2005a:35272**
Khludnev, A. M. (*with* Sokołowski, Jan) Smooth domain method for crack problems. (English summary) **2005d:35096**
Khomasuridze, N. Effective solution of a class of boundary value problems of thermoelasticity in generalized cylindrical coordinates. (English summary) **2005e:74014**
Koko, Jonas *see* **Bresch, Didier**, **2005i:65206**
Korsawe, Johannes *see* **Cai, Zhiqiang et al.**, **2005i:65181**
Koshelev, A. I. Regularity up to the boundary of stresses in the linear theory of elasticity. (Russian. Russian summary) **2005g:35079**
Kowalczyk-Gajewska, K. (*with* Ostrowska-Maciejewska, J.) The influence of internal restrictions on the elastic properties of anisotropic materials. (English summary) **2005c:74015**
Ladevèze, Pierre The exact theory of plate bending. (English summary) **2005a:74059**
Li, Shaofan On dual conservation laws in linear elasticity: stress function formalism. (English summary) **2005c:74006**
Li, Xian Fang Two perfectly-bonded dissimilar orthotropic strips with an interfacial crack normal to the boundaries. (English summary)
— Erratum to: "Two perfectly-bonded dissimilar orthotropic strips with an interfacial crack normal to the boundaries" [Appl. Math. Comput. **163** (2005), no. 2, 961–975; MR2121840]. (English summary)
Lin, Ching-Lung Strong unique continuation for an elasticity system with residual stress. (English summary) **2005f:35033**
— (*with* Wang, Jenn-Nan) Strong unique continuation for the Lamé system with Lipschitz coefficients. (English summary) **2005k:35404**
Lin, Qun[1] *see* **Duan, Huo-Yuan**, **2005j:74054**
Liu, I-Shih *see* **Rincon, Mauro Antonio**, **2005c:49067**
Lovadina, Carlo *see* **Auricchio, Ferdinando et al.**, **2005m:74091**
Madani, Kamyar *see* **Marigo, Jean-Jacques**, **2005k:74051**
Mair, Michael (*with* Wohlmuth, Barbara I.) A domain decomposition method for domains with holes using a complementary decomposition. (English summary) **2005f:74035**
Makhmudov, O. I. The Cauchy problem for a system of equations in the theory of elasticity and thermoelasticity in space. (Russian) **2005e:35237**
Marigo, Jean-Jacques (*with* Madani, Kamyar) The influence of the type of loading on the asymptotic behavior of slender elastic rings. (English summary) **2005k:74051**
Marzocchi, Alfredo (*with* Musesti, Alessandro) Balance laws and weak boundary conditions in continuum mechanics. (English summary) **2005f:74005**
Meleshko, V. V. The biharmonic problem for a rectangle: history and the current state. (Russian. English, Russian and Ukrainian summaries)
Menéndez-Conde Lara, Federico Eigenfunction expansions and spectral projections for isotropic elasticity outside an obstacle. (English summary) **2005i:35204**
Monneau, Régis Uniform elliptic estimate for an infinite plate in linear elasticity. (English summary) **2005g:35067**
Morassi, Antonino *see* **Freddi, Lorenzo et al.**, **2005k:74049**
Muschietti, Maria Amelia *see* **Durán, Ricardo G.**, **2005g:35284**
Musesti, Alessandro *see* **Marzocchi, Alfredo**, **2005f:74005**
Mutafyan, M. N. (*with* Sarkisyan, S. O.) Asymptotic solutions of boundary value problems for a thin rectangle according to the asymmetric theory of elasticity. (Russian. Russian and Armenian summaries)
Nardinocchi, Paola (*with* Podio-Guidugli, Paolo) Levinson-type benchmarks for slide-clamped and elastically supported plates. (English summary) **2005a:74060**
Natroshvili, David (*with* Wendland, Wolfgang L.) Boundary variational inequalities in the theory of interface cracks. (English summary) **2005k:35160**
Nkemzi, Boniface On solution of Lamé equations in axisymmetric domains with conical points. (English summary) **2005g:35286**
Oeltz, Daniel *see* **Griebel, Michael et al.**, **2005a:74036**
Ostrowska-Maciejewska, J. *see* **Kowalczyk-Gajewska, K.**, **2005c:74015**
Paroni, Roberto *see* **Freddi, Lorenzo et al.**, **2005k:74049**
Pastrone, Franco *see* **Caparrini, Sandro**, **2005b:74001**
Pelekanos, George (*with* Sevroglou, Vassilios) The $(F^*F)^{1/4}$-method for the transmission problem in two-dimensional linear elasticity. (English summary) **2005i:74045**
Podio-Guidugli, Paolo *see* **Nardinocchi, Paola**, **2005a:74060**
Pousin, Jérôme *see* **Faugeras, Blaise**, **2005h:74042**
Puso, Michael A. *see* **Flemisch, Bernd et al.**, **2005m:74092**
Reali, A. *see* **Auricchio, Ferdinando et al.**, **2005m:74091**
Revenko, V. P. Determination of the stress-strain state of a thick-walled cylinder loaded at its ends by arbitrary forces. (Ukrainian. English summary) **2005g:74051**
Rincon, Mauro Antonio (*with* Liu, I-Shih) On numerical approximation of an optimal control problem in linear elasticity. (English and Spanish summaries) **2005c:49067**
Royer-Carfagni, Gianni *see* **Fosdick, Roger L.**, **2005f:74009**
Rychagivskiĭ, A. V. *see* **Tokoviĭ, Yu. V.**
Sarkisyan, S. O. *see* **Mutafyan, M. N.**
Schweitzer, Marc Alexander *see* **Griebel, Michael et al.**, **2005a:74036**
Sergienko, Ivan V. (*with* Deĭneka, V. S.) Optimal control of the deformed state of a composite body. (Russian. English, Russian and Ukrainian summaries) **2005h:49063**
Sevroglou, Vassilios *see* **Pelekanos, George**, **2005i:74045**
Simmonds, J. G. Exact Lévy-type solutions for plate bending exist for transversely isotropic but not for general monoclinic materials. (English summary) **2005g:74079**
Sini, Mourad Absence of positive eigenvalues for the linearized elasticity system. (English summary) **2005d:35052**
Sokołowski, Jan *see* **Khludnev, A. M.**, **2005d:35096**
Starke, Gerhard *see* **Cai, Zhiqiang et al.**, **2005e:65180**; **2005i:65179** *and* **2005i:65181**
Steinbach, Olaf A note on the ellipticity of the single layer potential in two-dimensional linear elastostatics. (English summary) **2005d:35045**
Talbot, C. J. (*with* Crampton, A.) Application of the pseudo-spectral method to 2D eigenvalue problems in elasticity. (English summary) **2005m:65252**
Talpaert, Yves R. ★ Tensor analysis and continuum mechanics. **2005f:74001**
Ting, T. C. T. Generalized Cowin-Mehrabadi theorems and a direct proof that the number of linear elastic symmetries is eight. (English summary) **2005a:74029**
Tokoviĭ, Yu. V. (*with* Rychagivskiĭ, A. V.) Reduction of plane thermoelasticity problem in inhomogeneous strip to integral Volterra type equation. (English and Lithuanian summaries)
Tomarelli, Franco *see* **Colombo, Fabrizio**, **2005m:74085**
Truskinovsky, Lev *see* **Fosdick, Roger L.**, **2005h:74002**
Voropaeva, L. V. A boundary value problem for a Lamé-type elliptic system with a concentrated source. (Russian. English and Russian summaries)
Walpole, L. J. The Green functions of an elastic medium surrounding a rigid spherical inclusion. (English summary) **2005k:74039**
Wang, Jenn-Nan *see* **Lin, Ching-Lung**, **2005k:35404**
Wang, Minzhong *see* **Zhao, Yingtao et al.**, **2005f:74023**
Weikard, U. *see* **Blesgen, Thomas**, **2005g:74094**
Wendland, Wolfgang L. *see* **Natroshvili, David**, **2005k:35160**
Wohlmuth, Barbara I. *see* **Mair, Michael**, **2005f:74035** *and* **Flemisch, Bernd et al.**, **2005m:74092**
Xie, Xiao Ping[3] An accurate hybrid macro-element with linear displacements. (English summary)
Yakhno, V. G. (*with* Akmaz, Hakan K.) Initial value problem for the dynamic system of anisotropic elasticity. (English summary) **2005g:74057**
Yamamoto, Masahiro *see* **Imanuvilov, Oleg Yurievich**, **2005a:35036**
Yin, Wan-Lee Degeneracy, derivative rule, and Green's functions of anisotropic elasticity (English summary) **2005g:74028**
— A unified formalism of two-dimensional anisotropic elasticity, piezoelectricity and unsymmetric laminated plates. (English summary) **2005m:74021**
Yosibash, Zohar *see* **Costabel, Martin et al.**, **2005c:35068**
Zhao, Yingtao (*with* Gao, Yang[4]; Wang, Minzhong) The ellipsoidal inhomogeneity with imperfect interface. (English and Chinese summaries) **2005f:74023**

74B10 Linear elasticity with initial stresses

Chekurīn, V. F. *see* **Kravchishin, O. Z.**
Flavin, J. N. (*with* Gleeson, B.) Decay and other estimates for an annular elastic cylinder in an axisymmetric state of stress. (English summary) **2005i:74007**
Gleeson, B. *see* **Flavin, J. N.**, **2005i:74007**
Kravchishin, O. Z. (*with* Chekurīn, V. F.) A nonlinear model of the propagation of elastic disturbances in an elastically deformed continuum. (Ukrainian. English, Russian and Ukrainian summaries)

Items with secondary classifications in 74B10

Destrade, Michel On interface waves in misoriented pre-stressed incompressible elastic solids. (English summary)
Kaplunov, Yu. D. (*with* Prikazchikov, Danila A.; Rogerson, Graham A.) Edge vibration of a pre-stressed semi-infinite strip with traction-free edge and mixed face boundary conditions. (English summary) **2005f:74042**
Man, Chi-Sing *see* **Tanuma, Kazumi**, **2005e:74028**
Prikazchikov, Danila A. (*with* Rogerson, Graham A.) On surface wave propagation in incompressible, transversely isotropic, pre-stressed elastic half-spaces. (English summary) **2005a:74049**
— *see also* **Kaplunov, Yu. D. et al.**, **2005f:74042**
Procházka, Petr (*with* Šejnoha, Jiří) Extended Hashin-Shtrikman variational principles. (English summary) **2005f:74071**
Rogerson, Graham A. *see* **Prikazchikov, Danila A.**, **2005a:74049** *and* **Kaplunov, Yu. D. et al.**, **2005f:74042**
Šejnoha, Jiří *see* **Procházka, Petr**, **2005f:74071**
Tanuma, Kazumi (*with* Man, Chi-Sing) Angular dependence of Rayleigh-wave velocity in prestressed polycrystalline media with monoclinic texture. (English summary) **2005e:74028**

74B15 Equations linearized about a deformed state (small deformations superposed on large)

Ciarlet, Patrick, Jr. *see* **Ciarlet, Philippe G.**, **2005g:74015**
Ciarlet, Philippe G. (*with* Ciarlet, Patrick, Jr.) Another approach to linearized elasticity and Korn's inequality. (English and French summaries) **2005g:74015**
Guz′, A. N. (*with* Guz′, I. A.) Mixed two-dimensional problems of the linearized mechanics of deformable bodies. Exact solutions. (Russian. English and Ukrainian summaries) **2005k:74008**
Guz′, I. A. *see* **Guz′, A. N.**, **2005k:74008**

Items with secondary classifications in 74B15

Casado Díaz, Juan (*with* Luna-Laynez, Manuel) Homogenization of the anisotropic heterogeneous linearized elasticity system in thin reticulated structures. (English summary) **2005h:35014**

Chambolle, Antonin A density result in two-dimensional linearized elasticity, and applications. (English summary) **2005i:74064**

Ciarlet, Patrick, Jr. *see* **Ciarlet, Philippe G., 2005m:35297**

Ciarlet, Philippe G. (*with* Ciarlet, Patrick, Jr.) Another approach to linearized elasticity and a new proof of Korn's inequality. (English summary) **2005m:35297**

Hu, Yuan Tai (*with* Yang, Jia Shi; Jiang, Qing) Surface waves in electrostrictive materials under biasing fields. (English summary) **2005g:74066**

Jiang, Qing *see* **Hu, Yuan Tai et al., 2005g:74066**

Luna-Laynez, Manuel *see* **Casado Díaz, Juan, 2005h:35014**

Nolde, E. V. (*with* Prikazchikova, L. A.; Rogerson, Graham A.) Dispersion of small amplitude waves in a pre-stressed, compressible elastic plate. (English summary) **2005f:74050**

Prikazchikova, L. A. *see* **Nolde, E. V. et al., 2005f:74050**

Rogerson, Graham A. *see* **Nolde, E. V. et al., 2005f:74050**

Sini, Mourad Absence of positive eigenvalues for the linearized elasticity system. The half-space case. (English summary) (*see* **2005b:00020**)

Yang, Jia Shi *see* **Hu, Yuan Tai et al., 2005g:74066**

74B20 Nonlinear elasticity

Akinola, A. P. (*with* Layeni, O. P.; Odejobi, O. A.; Umoru, L. E.) Hold effect in finite torsion of a compressible elastic tube. (English summary) **2005c:74008**

— On complex potentials for finite plane deformation of a transversely isotropic material. (English summary) **2005g:74016**

Aksel, Nuri *see* **Itskov, Mikhail, 2005a:74020**

Aron, M. Combined axial shearing, extension, and straightening of elastic annular cylindrical sectors. (English summary) **2005h:74011**

Balzani, D. *see* **Schröder, Jörg² et al., 2005k:74013**

Beatty, Millard F. An average-stretch full-network model for rubber elasticity. (English summary) **2005a:74015**

Bigoni, Davide (*with* Capuani, Domenico) Time-harmonic Green's function and boundary integral formulation for incremental nonlinear elasticity: dynamics of wave patterns and shear bands. (English summary) **2005m:74009**

Billington, E. W. Generalisation of Hooke's law for finite strain to include the elastic range of strain-hardening materials. (English summary) **2005f:74013**

Bouby, C. (*with* Fortuné, Danielle; Pietraszkiewicz, Wojciech; Vallée, Claude) Direct determination of the rotation in the polar decomposition of the deformation gradient by maximizing a Rayleigh quotient. (English summary) **2005k:74009**

Capuani, Domenico *see* **Bigoni, Davide, 2005m:74009**

Carillo, Sandra Null Lagrangians and surface interaction potentials in nonlinear elasticity. **2005a:74016**

Carstensen, Carsten (*with* Dolzmann, Georg) An a priori error estimate for finite element discretizations in nonlinear elasticity for polyconvex materials under small loads. (English summary) **2005b:74019**

Casey, James On Ericksen's theorem for unconstrained hyperelastic materials. (English summary) **2005k:74010**

Chagneau, F. *see* **Le Dret, Hervé et al., 2005j:74005**

Chen, Yi-Chao Second variation condition and quadratic integral inequalities with higher order derivatives. (English summary) **2005a:74017**

Cheng, Chang-Jun *see* **Yuan, Xue Gang et al., 2005j:74006**

Conti, Sergio (*with* De Lellis, Camillo) Some remarks on the theory of elasticity for compressible Neohookean materials. (English summary) **2005d:74002**

Coon, Ethan T. (*with* Polignone Warne, Debra; Warne, Paul G.) Asymptotic analysis of finite deformation in a nonlinear transversely isotropic incompressible hyperelastic half-space subjected to a tensile point load. (English summary) **2005k:74011**

Criscione, John C. *see* **Wilber, J. Patrick, 2005i:74012**

De Lellis, Camillo *see* **Conti, Sergio, 2005d:74002**

Destrade, Michel (*with* Hayes, Michael A.) Inhomogeneous 'longitudinal' plane waves in a deformed elastic material. (English summary) **2005g:74017**

De Tommasi, Domenico On the kinematics of deformations with small strain and moderate rotation. (English summary) **2005b:74020**

Doltsinis, Ioannis ★ Large deformation processes of solids. **2005a:74018**

Dolzmann, Georg *see* **Carstensen, Carsten, 2005b:74019**

Dunwoody, J. On a class of controllable deformations of isotropic incompressible elastic solids with simple material inhomogeneity. (English summary) **2005i:74008**

Erbay, Husnu A. (*with* Tüzel, V. H.) Dynamic extension of a compressible nonlinearly elastic membrane tube. (English summary) **2005h:74012**

Fortuné, Danielle *see* **Bouby, C. et al., 2005k:74009**

Hayes, Michael A. *see* **Destrade, Michel, 2005g:74017**

Healey, Timothy J. (*with* Montes-Pizarro, Errol L.) Global bifurcation in nonlinear elasticity with an application to barrelling states of cylindrical columns. (English summary) **2005b:74021**

Horgan, Cornelius O. (*with* Saccomandi, Giuseppe) Constitutive models for atactic elastomers. (English summary) (*see* **2005c:00016**)

— (*with* Ogden, Ray W.; Saccomandi, Giuseppe) A theory of stress softening of elastomers based on finite chain extensibility. (English summary) **2005a:74019**

— (*with* Murphy, Jeremiah G.) Lie group analysis and plane strain bending of crylindrical sectors for compressible nonlinearly elastic materials. (English summary) **2005i:74009**

— (*with* Murphy, Jeremiah G.) A Lie group analysis of the axisymmetric equations of finite elastostatics for compressible materials. (English summary) **2005m:74010**

Ieşan, D. Second-order effects in the torsion of elastic materials with voids. (English summary) **2005m:74011**

Itskov, Mikhail (*with* Aksel, Nuri) A class of orthotropic and transversely isotropic hyperelastic constitutive models based on a polyconvex strain energy function. (English summary) **2005a:74020**

Kirkinis, Eleftherios (*with* Tsai, Hungyu) Generalized azimuthal shear deformations in compressible isotropic elastic materials. (English summary) **2005m:74012**

Krasucki, Francoise (*with* Münch, Arnaud; Ousset, Yves) Mathematical analysis of nonlinear bonded joint models. (English summary) **2005b:74022**

Layeni, O. P. *see* **Akinola, A. P. et al., 2005c:74008**

Le Dret, Hervé (*with* Lewandowski, Roger; Priour, D.; Chagneau, F.) Numerical simulation of a cod end net. I. Equilibrium in a uniform flow. (English summary) **2005j:74005**

Lewandowski, Roger *see* **Le Dret, Hervé et al., 2005j:74005**

Lopez-Pamies, Oscar (*with* Ponte Castañeda, Pedro) Second-order estimates for the macroscopic response and loss of ellipticity in porous rubbers at large deformations. (English summary) **2005k:74012**

Mareno, Anita Uniqueness of equilibrium solutions in second-order gradient nonlinear elasticity. (English summary) **2005d:74003**

Merlini, T. (*with* Morandini, Marco) The helicoidal modeling in computational finite elasticity. I. Variational formulation. (English summary) **2005d:74004**

— (*with* Morandini, Marco) The helicoidal modeling in computational finite elasticity. II. Multiplicative interpolation. (English summary) **2005d:74005**

— *see also* **Errata: "The helicoidal modeling in computational finite elasticity. II. Multiplicative interpolation"**

Merodio, J. (*with* Ogden, Ray W.) Tensile instabilities and ellipticity in fiber-reinforced compressible non-linearly elastic solids. (English summary) **2005m:74013**

— (*with* Ogden, Ray W.) On tensile instabilities and ellipticity loss in fiber-reinforced incompressible non-linearly elastic solids. (English summary) **2005i:74010**

— (*with* Ogden, Ray W.) Remarks on instabilities and ellipticity for a fiber-reinforced compressible nonlinearly elastic solid under plane deformation. (English summary) **2005m:74014**

Miller, Gregory H. Minimal rotationally invariant bases for hyperelasticity. (English summary) **2005i:74011**

Mioduchowski, A. *see* **Ru, C. Q. et al., 2005f:74015**

Montes-Pizarro, Errol L. *see* **Healey, Timothy J., 2005b:74021**

Morandini, Marco *see* **Merlini, T., 2005d:74004; 2005d:74005** *and* **Errata: "The helicoidal modeling in computational finite elasticity. II. Multiplicative interpolation"**

Münch, Arnaud *see* **Krasucki, Francoise et al., 2005b:74022**

Murphy, Jeremiah G. Equivalent and separable strain-energy functions in compressible, finite elasticity. (English summary) **2005f:74014**

— *see also* **Horgan, Cornelius O., 2005i:74009** *and* **2005m:74010**

Neff, Patrizio *see* **Schröder, Jörg² et al., 2005k:74013**

Odejobi, O. A. *see* **Akinola, A. P. et al., 2005c:74008**

Ogden, Ray W. *see* **Horgan, Cornelius O. et al., 2005a:74019; Merodio, J., 2005i:74010; 2005m:74013** *and* **2005m:74014**

Ortiz, Michael *see* **Thoutireddy, P., 2005b:74023**

Oudaani, Jaouad *see* **Raïssouli, Mustapha, 2005g:74018**

Ousset, Yves *see* **Krasucki, Francoise et al., 2005b:74022**

Pietraszkiewicz, Wojciech *see* **Bouby, C. et al., 2005k:74009**

Polignone Warne, Debra *see* **Coon, Ethan T. et al., 2005k:74011**

Ponte Castañeda, Pedro *see* **Lopez-Pamies, Oscar, 2005k:74012**

Priour, D. *see* **Le Dret, Hervé et al., 2005j:74005**

Raïssouli, Mustapha (*with* Oudaani, Jaouad) Local existence, uniqueness and regularity of a special solution for a mixed problem in elasticity. (English and French summaries) **2005g:74018**

Ru, C. Q. (*with* Schiavone, P.; Sudak, L. J.; Mioduchowski, A.) Uniformity of stresses inside an elliptic inclusion in finite plane elastostatics. (English summary) **2005f:74015**

Saccomandi, Giuseppe *see* **Horgan, Cornelius O. et al., 2005a:74019** *and* **(2005c:00016)**

Schiavone, P. *see* **Ru, C. Q. et al., 2005f:74015**

Schröder, Jörg² (*with* Neff, Patrizio; Balzani, D.) A variational approach for materially stable anisotropic hyperelasticity. (English summary) **2005k:74013**

Sendova, Tsvetanka (*with* Walton, Jay R.) On strong ellipticity for isotropic hyperelastic materials based upon logarithmic strain. (English summary) **2005f:74016**

Sivaloganathan, Jeyabal (*with* Spector, Scott J.) Myriad radial cavitating equilibria in nonlinear elasticity. (English summary) **2005c:74009**

Spector, Scott J. *see* **Sivaloganathan, Jeyabal, 2005c:74009**

Sudak, L. J. *see* **Ru, C. Q. et al., 2005f:74015**

Thoutireddy, P. (*with* Ortiz, Michael) A variational r-adaption and shape-optimization method for finite-deformation elasticity. (English summary) **2005b:74023**

Tsai, Hungyu *see* **Kirkinis, Eleftherios, 2005m:74012**

Tüzel, V. H. *see* **Erbay, Husnu A., 2005h:74012**

Umoru, L. E. *see* **Akinola, A. P. et al., 2005c:74008**

Vallée, Claude *see* **Bouby, C. et al., 2005k:74009**

Walton, Jay R. (*with* Wilber, J. Patrick) Deformations of neo-Hookean elastic wedge revisited. (English summary) **2005a:74021**

— *see also* **Sendova, Tsvetanka, 2005f:74016**

Warne, Paul G. *see* **Coon, Ethan T. et al., 2005k:74011**

Wilber, J. Patrick (*with* Criscione, John C.) The Baker-Ericksen inequalities for hyperelastic models using a novel set of invariants of Hencky strain. (English summary) **2005i:74012**

— *see also* **Walton, Jay R., 2005a:74021**

Yuan, Xue Gang (*with* Zhu, Zheng You) Qualitative study of cavitated bifurcation for a class of incompressible generalized neo-Hookean spheres. (Chinese. English and Chinese summaries) **2005k:74014**

— (*with* Zhu, Zheng You; Cheng, Chang-Jun) Study on cavitated bifurcation problems for spheres composed of hyper-elastic materials. (English summary) **2005j:74006**

Zhu, Zheng You *see* **Yuan, Xue Gang et al., 2005j:74006** *and* **2005k:74014**

Items listed otherwise than by author

Errata:

"The helicoidal modeling in computational finite elasticity. II. Multiplicative interpolation" Erratum: "The helicoidal modeling in computational finite elasticity. II. Multiplicative interpolation" [Internat. J. Solids Structures **41** (2004), no. 18-19, 5383–5409; MR2085918 (2005d:74005)] by T. Merlini and M. Morandini.

Items with secondary classifications in 74B20

Abesadze, T. (*with* Odishariya, V. Sh.; Peradze, D. G.) On the influence of a calculation error on the solution of the Kirchhoff nonlinear static equation. (English and Georgian summaries) **2005g:34001**

Adams, George G. (*with* Barber, James R.; Ciavarella, M.; Rice, James R.) A paradox in sliding contact problems with friction. (English summary) **2005m:74067**

Alart, Pierre (*with* Pagano, S.) DC solutions of postbuckling problems. (English summary) **2005f:74036**

Aleshin, Vladislav V. (*with* Van Den Abeele, K.) Micro-potential model for stress-strain hysteresis of micro-cracked materials. (English summary) **2005i:74071**

Ambur, Damodar R. *see* **Hasanyan, Davresh J. et al., 2005c:74025**

Anicic, Sylvia (*with* Le Dret, Hervé; Raoult, Annie) The infinitesimal rigid displacement lemma in Lipschitz co-ordinates and application to shells with minimal regularity. (English summary) **2005d:35254**

Antman, Stuart S. Regularity properties of planar motions of incompressible rods. (English summary) **2005i:74049**

Areias, P. M. A. (*with* César de Sá, J. M. A.; Conceição António, C. A.) Algorithms for the analysis of 3D finite strain contact problems. (English summary) **2005g:74088**

Åslund, Jan Asymptotic analysis of adhesively bonded nonlinearly elastic plates. (English summary) **2005k:74053**

Auricchio, Ferdinando (*with* Beirão da Veiga, L.; Lovadina, Carlo; Reali, A.) A stability study of some mixed finite elements for large deformation elasticity problems. (English summary) **2005i:74072**

Babadjian, Jean-François (*with* Francfort, Gilles A.) Spatial heterogeneity in 3D-2D dimensional reduction. (English summary) **2005k:49035**

Barber, James R. *see* **Adams, George G. et al., 2005m:74067**

Barboteu, Mikaël Construction du préconditionneur Neumann-Neumann de décomposition de domaine de niveau 2 pour des problèmes élastodynamiques en grandes déformations. (English and French summaries) [Construction of the balancing domain decomposition preconditioner for elastodynamic finite deformation problems] **Barclay, D. W.** The shock pattern for axially symmetric shear wave propagation in a hyperelastic incompressible solid. (English summary) **2005e:74029**

Bayliss, M. T. (*with* El-Zafrany, A.) Numerical modelling of elastomers using the boundary element method. (English summary)

Bechtel, Stephen E. *see* **Rooney, Francis J., 2005b:74006**

Beirão da Veiga, L. *see* **Auricchio, Ferdinando et al., 2005i:74072**

Belmonte, Andrew *see* **Podgorski, T., 2005h:76008**

Bonet, Javier (*with* Kulasegaram, Sivakumar) Alternative total Lagrangian formulations for corrected smooth particle hydrodynamics (CSPH) methods in large strain dynamic problems. **2005g:74105**

Borja, Ronaldo I. *see* **Li, Chao et al., 2005b:74040**

deBotton, G. Transversely isotropic sequentially laminated composites in finite elasticity. (English summary) **2005k:74019**

Bouchitté, Guy (*with* Fonseca, Irene; Mascarenhas, M. Luísa) Bending moment in membrane theory. (English summary) **2005c:74051**

Braess, Dietrich (*with* Ming, Ping-bing) A finite element method for nearly incompressible elasticity problems. (English summary) **2005f:74073**

Bruns, T. E. (*with* Sigmund, O.) Toward the topology design of mechanisms that exhibit snap-through behavior. (English summary) **2005b:74104**

Buonsanti, Michele (*with* Royer-Carfagni, Gianni) From 3-D nonlinear elasticity theory to 1-D bars with nonconvex energy. (English summary) **2005c:74048**

Burak, Ya. Ĭ. (*with* Moroz, G. Ĭ.) On two versions of a variational formulation of boundary value problems of the nonlinear mechanics of elastic systems. (Ukrainian. English, Russian and Ukrainian summaries) **2005g:74007**

Caparrini, Sandro (*with* Pastrone, Franco) E. Frola (1906–1962): an attempt towards an axiomatic theory of elasticity. (English summary) **2005b:74001**

Carlson, Donald E. (*with* Fried, Eliot; Tortorelli, Daniel A.) Geometrically-based consequences of internal constraints. (English summary) **2005b:74005**

Carroll, M. M. Derivatives of the rotation and stretch tensors. (English summary) **2005g:74008**

Casey, James On Volterra dislocations of finitely deforming continua. (English summary) **2005k:74004**

Cattani, Carlo (*with* Rushchits'kiĭ, Ya. Ya.) Cubically nonlinear elastic waves versus quadratically ones. Main wave effects. (English and Ukrainian summaries) **2005c:74046**

Cerda, Enrique A. (*with* Mahadevan, L.) Confined developable elastic surfaces: cylinders, cones and the *Elastica*. (English summary) **2005i:74056**

César de Sá, J. M. A. *see* **Areias, P. M. A. et al., 2005g:74088**

Chernyshenko, I. S. *see* **Maksimyuk, V. A., 2005m:74063**

Ciarlet, Philippe G. (*with* Mardare, Cristinel) Recovery of a manifold with boundary and its continuity as a function of its metric tensor. (English and French summaries) **2005g:53046**

Ciavarella, M. *see* **Adams, George G. et al., 2005m:74067**

Ciobanu, Gh. Gr. (*with* Săndulescu, Gabriela) Existence results for the pure displacement problem of nonlinear elastostatics. **2005c:35279**

Conceição António, C. A. *see* **Areias, P. M. A. et al., 2005g:74088**

Criscione, John C. Direct tensor expression for natural strain and fast, accurate approximation. (English summary) **2005k:74074**

Deseri, Luca (*with* Owen, David Ross) Toward a field theory for elastic bodies undergoing disarrangements. (English summary) **2005f:74008**

Destrade, Michel (*with* Scott, N. H.) Surface waves in a deformed isotropic hyperelastic material subject to an isotropic internal constraint. (English summary) **2005b:74064**

Dobiáš, Jiří *see* **Dostál, Zdeněk et al., 2005g:74103**

Dolgikh, D. V. (*with* Kiselev, Vladimir Valerievich) Solitons of transverse corrugation in a three-layer nonlinearly elastic medium. (Russian. Russian summary) **2005j:74031**

Dorfmann, Al (*with* Ogden, Ray W.; Saccomandi, Giuseppe) Universal relations for nonlinear magnetoelastic solids. (English summary) **2005c:74026**

— (*with* Ogden, Ray W.) Nonlinear magnetoelastic deformations. (English summary) **2005f:74031**

Dostál, Zdeněk (*with* Horák, David; Kučera, Radek; Vondrák, Vít; Haslinger, Jaroslav; Dobiáš, Jiří; Pták, Svatopluk) FETI based algorithms for contact problems: scalability, large displacements and 3D Coulomb friction. (English summary) **2005g:74103**

Droske, M. (*with* Rumpf, Martin) A variational approach to nonrigid morphological image registration. (English summary) **2005a:49022**

Dui, Guansuo Discussion on: "Exact expansions of arbitrary tensor functions F(A) and their derivatives" [Internat. J. Solids Structures **41** (2004), no. 2, 337–349; MR2027212 (2004j:74011)] by J. Lu.

El-Zafrany, A. *see* **Franco-Nava, J. M., (2005d:65006)** *and* **Bayliss, M. T.**

Engelbrecht, Jüri *see* **Janno, Jaan, 2005m:74052**

Eraslan, Ahmet N. Stress distributions in elastic-plastic rotating disks with elliptical thickness profiles using Tresca and von Mises criteria. (English summary)

Fanion, Thierry (*with* Fernández, Miguel-Ángel; le Tallec, Patrick) Deriving adequate formulations for fluid-structure interaction problems: from ALE to transpiration. **2005c:74022**

Faraco, Daniel (*with* Koskela, Pekka; Zhong, Xiao) Mappings of finite distortion: the degree of regularity. (English summary) **2005f:30039**

Fernández, Miguel-Ángel *see* **Fanion, Thierry et al., 2005c:74022**

Fonseca, Irene *see* **Bouchitté, Guy et al., 2005c:74051**

Foss, M. (*with* Hrusa, W.; Mizel, Victor J.) The Lavrentiev phenomenon in nonlinear elasticity. (English summary) **2005d:49020**

Francfort, Gilles A. *see* **Babadjian, Jean-François, 2005k:49035**

Franco-Nava, J. M. (*with* El-Zafrany, A.) Hyper-singular boundary element method for elastic fracture mechanics analysis with large deformation. (English summary) (*see* **2005d:65006**)

Freddi, Lorenzo (*with* Paroni, Roberto) A 3D–1D Young measure theory of an elastic string. (English summary) **2005g:74073**

Freidin, A. B. *see* **Fu, Yibin B., 2005g:74097**

Fried, Eliot (*with* Sellers, Shaun) Free-energy density functions for nematic elastomers. (English summary) **2005a:74006**

— *see also* Carlson, Donald E. et al., 2005b:74005

(Frola, E.) *see* **Caparrini, Sandro, 2005b:74001**

Fu, Yibin B. (*with* Freidin, A. B.) Characterization and stability of two-phase piecewise-homogeneous deformations. (English summary) **2005g:74097**

Göktepe, S. *see* **Miehe, Christian et al., 2005e:74003**

Gosselet, P. (*with* Rey, Christian) On a selective reuse of Krylov subspaces in Newton-Krylov approaches for nonlinear elasticity. (*see* **2005f:65003**)

Hasanyan, Davresh J. (*with* Librescu, Liviu; Ambur, Damodar R.) A few results on the foundation of the theory and behavior of nonlinear magnetoelastic plates carrying an electrical current. (English summary) **2005c:74025**

Haslinger, Jaroslav *see* **Dostál, Zdeněk et al., 2005g:74103**

Horák, David *see* **Dostál, Zdeněk et al., 2005g:74103**

Hrusa, W. *see* **Foss, M. et al., 2005d:49020**

Ibrahimbegovic, A. (*with* Knopf-Lenoir, C.; Kučerová, A.; Villon, Pierre) Optimal design and optimal control of structures undergoing finite rotations and elastic deformations. (English summary) **2005f:74066**

Janno, Jaan (*with* Engelbrecht, Jüri) Solitary waves in nonlinear microstructured materials. (English summary) **2005m:74052**

Kankanala, S. V. (*with* Triantafyllidis, N.) On finitely strained magnetorheological elastomers. (English summary) **2005g:74045**

Kirkinis, Eleftherios *see* **Tsai, Hungyu et al.**

Kiselev, Vladimir Valerievich *see* **Dolgikh, D. V., 2005j:74031**

Klarbring, Anders Stability and critical points in large displacement frictionless contact problems. (English summary) **2005b:74089**

Knopf-Lenoir, C. *see* **Ibrahimbegovic, A. et al., 2005f:74066**

Koskela, Pekka (*with* Zhong, Xiao) Minimal assumptions for the integrability of the Jacobian. (English summary) **2005f:26036**

— *see also* Faraco, Daniel et al., 2005f:30039

Kozhevnikov, I. F. *see* **Vil'ke, V. G., 2005m:74074**

Kučera, Radek *see* **Dostál, Zdeněk et al., 2005g:74103**

Kučerová, A. *see* **Ibrahimbegovic, A. et al., 2005f:74066**

Kulasegaram, Sivakumar *see* **Bonet, Javier, 2005g:74105**

Langenbach, Arno Über einige Modellgleichungen der Mechanik in der Funktionalanalysis. [On some model equations of mechanics in functional analysis] (*see* **2005g:00013**)

Lastenko, Mikhail S. (*with* Zubov, Leonid M.) A model of neck formation on a rod under tension. (English summary) **2005a:74038**

Laursen, Tod A. *see* **Puso, Michael A.** *and* **Yang, Bin[5] et al.**

Lazopoulos, K. A. On the gradient strain elasticity theory of plates. (English summary) **2005c:74053**

Le Dret, Hervé *see* **Anicic, Sylvia et al., 2005d:35254**

de León, Manuel *see* **Marín, David, 2005i:53024**

Li, Chao (*with* Borja, Ronaldo I.; Regueiro, Richard A.) Dynamics of porous media at finite strain. (English summary) **2005b:74040**

Li, Zhiping Multiscale modelling and computation of microstructures in multi-well problems. (English summary) **2005g:74093**

Librescu, Liviu *see* **Hasanyan, Davresh J. et al., 2005c:74025**

Lopez-Pamies, Oscar (*with* Ponte Castañeda, Pedro) Second-order homogenization estimates incorporating field fluctuations in finite elasticity. (English summary) **2005b:74112**

Lovadina, Carlo *see* **Auricchio, Ferdinando et al., 2005i:74072**

(Lu, Jia) *see* **Dui, Guansuo**

Lulei, F. *see* **Miehe, Christian et al., 2005e:74003**

Mahadevan, L. *see* **Cerda, Enrique A., 2005i:74056**

Maksimyuk, V. A. (*with* Chernyshenko, I. S.) Mixed functionals in the theory of the nonlinearly elastic deformation of shells. (Russian. English and Ukrainian summaries) **2005m:74063**

Manfrin, Renato On the breakdown of classical solutions of the planar motion of an elastic string. (English summary) **2005c:35194**

Mardare, Cristinel *see* **Ciarlet, Philippe G., 2005g:53046**

Marín, David (*with* de León, Manuel) Classification of material G-structures. (English summary) **2005i:53024**

Mascarenhas, M. Luísa *see* **Bouchitté, Guy et al., 2005c:74051**

Mason, D. P. *see* **Roussos, N., 2005c:74034**
Matus, Petr P. (*with* Melnik, Roderick V. N.; Wang, Linxiang; Rybak, I. V.) Applications of fully conservative schemes in nonlinear thermoelasticity: modelling shape memory materials. (English summary) **2005b:74101**
Melnik, Roderick V. N. *see* **Matus, Petr P. et al., 2005b:74101**
Meng, Xiaonong *see* **Yang, Bin[5] et al.**
Meziat, René J. Analysis of two dimensional nonconvex variational problems. (English summary) (*see* **2005m:90002**)
Miehe, Christian (*with* Göktepe, S.; Lulei, F.) A micro-macro approach to rubber-like materials. I. The non-affine micro-sphere model of rubber elasticity. (English summary) **2005e:74003**
Ming, Ping-bing *see* **Braess, Dietrich, 2005f:74073**
Mizel, Victor J. *see* **Foss, M. et al., 2005d:49020**
Mora, Maria Giovanna (*with* Müller, Stefan[1]) Derivation of the nonlinear bending-torsion theory for inextensible rods by Γ-convergence. (English summary) **2005j:74022**
— (*with* Müller, Stefan[1]) A nonlinear model for inextensible rods as a low energy Γ-limit of three-dimensional nonlinear elasticity. (English and French summaries) **2005b:74073**
Moroz, G. Ĭ. *see* **Burak, Ya. Ĭ., 2005g:74007**
Müller, Stefan[1] *see* **Mora, Maria Giovanna, 2005b:74073** *and* **2005j:74022**
Nackenhorst, U. The ALE-formulation of bodies in rolling contact theoretical foundations and finite element approach. (English summary) **2005e:74044**
Odishariya, V. Sh. *see* **Abesadze, T. et al., 2005g:34001**
Ogden, Ray W. *see* **Vinh, Pham Chi, 2005b:74062**; **Dorfmann, Al et al., 2005c:74026** *and* **2005f:74031**
Osmolovskiĭ, V. G. Exact solutions to the variational problem of the phase transition theory in continuum mechanics. (English summary) **2005f:74038**
Owen, David Ross *see* **Deseri, Luca, 2005f:74008**
Pagano, S. *see* **Alart, Pierre, 2005f:74036**
Paroni, Roberto *see* **Freddi, Lorenzo, 2005g:74073**
Pastrone, Franco *see* **Caparrini, Sandro, 2005b:74001**
Pawłow, Irena (*with* Żochowski, Antoni) Control problem for a non-linear thermoelasticity system. (English summary) **2005h:49062**
— (*with* Zajączkowski, Wojciech M.) Unique global solvability in two-dimensional nonlinear thermoelasticity. (English summary) **2005m:74024**
Pedregal, Pablo On the structure of symmetric 2×2 gradients. (English and Spanish summaries) **2005c:49004**
Pence, Thomas J. (*with* Tsai, Hungyu) Swelling-induced microchannel formation in nonlinear elasticity. (English summary) **2005h:74021**
— *see also* **Tsai, Hungyu et al.**
Peradze, D. G. *see* **Abesadze, T. et al., 2005g:34001**
Pitteri, Mario On certain weak phase transformations in multilattices. (English summary) **2005j:74045**
Podgorski, T. (*with* Belmonte, Andrew) Surface folding of viscoelastic fluids: finite elasticity membrane model. (English summary) **2005h:76008**
Ponte Castañeda, Pedro *see* **Lopez-Pamies, Oscar, 2005b:74112**
Pták, Svatopluk *see* **Dostál, Zdeněk et al., 2005g:74103**
Puso, Michael A. (*with* Laursen, Tod A.) A mortar segment-to-segment frictional contact method for large deformations. (English summary)
Qin, Tiehu *see* **Xin, Jie, 2005h:35345**
Rahmani, Leila Ventcel's boundary conditions for a dynamic nonlinear plate. (English summary) **2005f:35303**
Rajagopal, Kumbakonam (*with* Roubíček, Tomáš) On the effect of dissipation in shape-memory alloys. (English summary) **2005b:74098**
Raoult, Annie *see* **Anicic, Sylvia et al., 2005d:35254**
Reali, A. *see* **Auricchio, Ferdinando et al., 2005i:74072**
Regueiro, Richard A. *see* **Li, Chao et al., 2005b:74040**
Rey, Christian *see* **Gosselet, P., (2005f:65003)**
Rice, James R. *see* **Adams, George G. et al., 2005m:74067**
Rooney, Francis J. (*with* Bechtel, Stephen E.) Constraints, constitutive limits, and instability in finite thermoelasticity. (English summary) **2005b:74006**
Roquefort, Anne Une simplification de l'analyse asymptotique formelle des coques non linéairement élastiques. (English summary) [A simplification of the formal asymptotic analysis of nonlinearly elastic shells] **2005e:74037**
Roubíček, Tomáš *see* **Rajagopal, Kumbakonam, 2005b:74098**
Roussos, N. (*with* Mason, D. P.) Radial oscillations of thin cylindrical and spherical shells: investigation of Lie point symmetries for arbitrary strain-energy functions. (English summary) **2005c:74034**
Royer-Carfagni, Gianni *see* **Buonsanti, Michele, 2005c:74048**
Rumpf, Martin *see* **Droske, M., 2005a:49022**
Rushchits′kiĭ, Ya. Ya. *see* **Cattani, Carlo, 2005c:74046**
Rybak, I. V. *see* **Matus, Petr P. et al., 2005b:74101**
Saccomandi, Giuseppe *see* **Dorfmann, Al et al., 2005c:74026**
Săndulescu, Gabriela *see* **Ciobanu, Gh. Gr., 2005c:35279**
Sanjarani Pour, M. A WKB analysis of the buckling condition for a cylindrical shell of arbitrary thickness subjected to an external pressure. (English summary) **2005h:74045**
Sansour, Carlo (*with* Wriggers, Peter; Sansour, Jamal) On the design of energy-momentum integration schemes for arbitrary continuum formulations. Applications to classical and chaotic motion of shells. (English summary) **2005b:74052**
Sansour, Jamal *see* **Sansour, Carlo et al., 2005b:74052**
Santos, Pedro Miguel (*with* Zappale, Elvira) Second-order analysis for thin structures. (English summary) **2005c:74054**
Scott, N. H. *see* **Destrade, Michel, 2005b:74064**
Sellers, Shaun *see* **Fried, Eliot, 2005a:74006**
Shimoji, Sadao Solutions of a pair of conservation laws with nonconvex flux function. (English summary)
Sigmund, O. *see* **Bruns, T. E., 2005b:74104**
Šilhavý, M. On semiconvexity properties of rotationally invariant functions in two dimensions. (English summary) **2005e:49026**
Sychëv, M. A. Attainment and relaxation results in special classes of deformations. (English summary) **2005m:74037**
Szopos, Marcela On the recovery of a curve isometrically immersed in $\mathbb{E}^n$. (English summary) **2005h:53006**
Talbot, D. R. S. (*with* Willis, John R.) Bounds for the effective constitutive relation of a nonlinear composite. (English summary) **2005g:74102**
le Tallec, Patrick *see* **Fanion, Thierry et al., 2005c:74022**
Tortorelli, Daniel A. *see* **Carlson, Donald E. et al., 2005b:74005**
Trabelsi, Karim Incompressible nonlinearly elastic thin membranes. (English and French summaries) **2005i:74050**
Triantafyllidis, N. *see* **Kankanala, S. V., 2005g:74045**
Tsai, Hungyu (*with* Pence, Thomas J.; Kirkinis, Eleftherios) Swelling induced finite strain flexure in a rectangular block of an isotropic elastic material. (English summary)
— *see also* **Pence, Thomas J., 2005h:74021**
Van Den Abeele, K. *see* **Aleshin, Vladislav V., 2005i:74071**
Vil′ke, V. G. (*with* Kozhevnikov, I. F.) The rolling of a wheel with a reinforced tire on a plane with slippage. (Russian. Russian summary) **2005m:74074**
Villon, Pierre *see* **Ibrahimbegovic, A. et al., 2005f:74066**
Vinh, Pham Chi (*with* Ogden, Ray W.) Formulas for the Rayleigh wave speed in orthotropic elastic solids. (English summary) **2005b:74062**
Vondrák, Vít *see* **Dostál, Zdeněk et al., 2005g:74103**
Wang, Linxiang *see* **Matus, Petr P. et al., 2005b:74101**
Willis, John R. *see* **Talbot, D. R. S., 2005g:74102**
Wineman, Alan *see* **Zimmermann, Markus, 2005h:74005**
Wriggers, Peter *see* **Sansour, Carlo et al., 2005b:74052**
Xin, Jie (*with* Qin, Tiehu) Almost global existence of Dirichlet initial-boundary value problem for nonlinear elastodynamic system outside a star-shaped domain. (English summary) **2005h:35345**
Yang, Bin[5] (*with* Laursen, Tod A.; Meng, Xiaonong) Two dimensional mortar contact methods for large deformation frictional sliding. (English summary)
Zajączkowski, Wojciech M. *see* **Pawłow, Irena, 2005m:74024**
Zappale, Elvira *see* **Santos, Pedro Miguel, 2005c:74054**
Zhang, Ke Wei[1] Neighborhoods of parallel wells in two dimensions that separate gradient Young measures. (English summary) **2005a:49081**
— An approximation theorem for sequences of linear strains and its applications. (English summary) **2005h:49033**
Zhong, Xiao *see* **Koskela, Pekka, 2005f:26036** *and* **Faraco, Daniel et al., 2005f:30039**
Zimmermann, Markus (*with* Wineman, Alan) On the elastic behavior of scission materials. (English summary) **2005h:74005**
Żochowski, Antoni *see* **Pawłow, Irena, 2005h:49062**
Zubov, Leonid M. *see* **Lastenko, Mikhail S., 2005a:74038**

74B99 None of the above, but in this section

Laserra, E. (*with* Pecoraro, M.) Volterra's theory of elastic dislocations for a transversally isotropic homogeneous hollow cylinder. (English and Ukrainian summaries)
Lazar, Markus On the correspondence between a screw dislocation in gradient elasticity and a regularized vortex. (English summary)
Paĭmushin, V. N. (*with* Shalashilin, V. I.) A noncontradictory version of the theory of deformations of continua in a quadratic approximation. (Russian) **2005m:74015**
Pecoraro, M. *see* **Laserra, E.**
Shalashilin, V. I. *see* **Paĭmushin, V. N., 2005m:74015**

Items with secondary classifications in 74B99

Armano, Tiziana (*with* Cermelli, Paolo) Noncrystallographic motion of a dislocation as a fine mixture of rectilinear paths. (English summary) **2005j:74011**
Ayzenberg-Stepanenko, M. V. *see* **Slepyan, Leonid, 2005a:74077**
Cermelli, Paolo *see* **Armano, Tiziana, 2005j:74011**
Chiriţă, Stan On some exponential decay estimates for porous elastic cylinders. (English summary) **2005g:74050**
— *see also* **Ciarletta, Michele et al., 2005k:74040**
Ciarletta, Michele (*with* Chiriţă, Stan; Passarella, Francesca) Some results on the spatial behaviour in linear porous elasticity. (English summary) **2005k:74040**
Cowin, S. C. *see* **Fraldi, M., 2005g:74046**
Demiray, Hilmi On the existence of some evolution equations in fluid-filled elastic tubes and their progressive wave solutions. (English summary) **2005c:74021**
Destrade, Michel Stoneley waves and interface stability of Bell materials in compression; comparison with rubber. (English summary) **2005j:74034**
Fitt, Alistair D. (*with* Please, Colin P.) On the separation of coconuts: a modeling week study. (English summary)
Fosdick, Roger L. (*with* Royer-Carfagni, Gianni) A Stokes theorem for second-order tensor fields and its implications in continuum mechanics. (English summary) **2005f:74009**
Fraldi, M. (*with* Cowin, S. C.) Inhomogeneous elastostatic problem solutions constructed from stress-associated homogeneous solutions. (English summary) **2005g:74046**
Kokarev, S. S. Deformational structures on smooth manifolds. (English summary) **2005g:58037**
Nakazato, Hiroshi (*with* Tsumura, Kozo) k-numerical range and the structural performance of buildings. (English summary) **2005m:15071**
Passarella, Francesca *see* **Ciarletta, Michele et al., 2005k:74040**
Please, Colin P. *see* **Fitt, Alistair D.**
Royer-Carfagni, Gianni *see* **Fosdick, Roger L., 2005f:74009**
Slepyan, Leonid (*with* Ayzenberg-Stepanenko, M. V.) Localized transition waves in bistable-bond lattices. (English summary) **2005a:74077**
Swanson, David (*with* Ziemer, William P.) The image of a weakly differentiable mapping. (English summary) **2005e:46056**
Tsumura, Kozo *see* **Nakazato, Hiroshi, 2005m:15071**
Ziemer, William P. *see* **Swanson, David, 2005e:46056**

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Items with secondary classifications in 74Cxx

Baltov, A. *see* **Lebon, Georgy et al.**
Grmela, Miroslav *see* **Lebon, Georgy et al.**
Lebon, Georgy (*with* Baltov, A.; Grmela, Miroslav) Extended thermodynamics of thermo-elasticity, visco-elasticity and visco-plasticity. (English summary)

74C05 Small-strain, rate-independent theories (including rigid-plastic and elasto-plastic materials)

Aifantis, K. E. (*with* Willis, John R.) The role of interfaces in enhancing the yield strength of composites and polycrystals. (English summary) **2005j:74007**
Alizade, A. N. (*with* Amenzade, R. Yu.) The variational method of creep theory taking damage and corrosion into account. (Russian)
Amenzade, R. Yu. *see* **Alizade, A. N.**
Bammann, D. J. *see* **Clayton, J. D. et al., 2005a:74024** *and* **Creighton, S. L. et al., 2005g:74020**
Bin Nawi, Abu Hanipah *see* **Watanabe, Kazumi**
Bojarski, Jarosław L. Regularity of solutions in plasticity. I. Continuum. (English summary) **2005c:74010**
Brokate, Martin (*with* Carstensen, Carsten; Valdman, Jan) A quasi-static boundary value problem in multi-surface elastoplasticity. I. Analysis. (English summary) **2005g:74019**
— (*with* Carstensen, Carsten; Valdman, Jan) A quasi-static boundary value problem in multi-surface elastoplasticity. II. Numerical solution. (English summary) **2005k:74015**
Bushby, A. J. *see* **Dunstan, D. J., 2005f:74017**
Carstensen, Carsten *see* **Brokate, Martin et al., 2005g:74019** *and* **2005k:74015**
Chambon, René (*with* Moullet, Jean-Christophe) Uniqueness studies in boundary value problems involving some second gradient models. (English summary) **2005a:74022**
Chang, Chih-Wen *see* **Liu, Chein-Shan, 2005h:74014**
Chełmiński, Krzysztof On quasistatic inelastic models of gradient type with convex composite constitutive equations. (English summary) **2005a:74023**
Clayton, J. D. (*with* Bammann, D. J.; McDowell, D. L.) Anholonomic configuration spaces and metric tensors in finite elastoplasticity. (English summary) **2005a:74024**
Creighton, S. L. (*with* Regueiro, Richard A.; Garikipati, Krishna; Klein, P. A.; Marin, E. B.; Bammann, D. J.) A variational multiscale method to incorporate strain gradients in a phenomenological plasticity model. (English summary) **2005g:74020**
Denzer, R. *see* **Menzel, A. et al., 2005g:74021**
Dunstan, D. J. (*with* Bushby, A. J.) Theory of deformation in small volumes of material. (English summary) **2005f:74017**
Ebobisse, François (*with* Reddy, B. Daya) Some mathematical problems in perfect plasticity. (English summary) **2005h:74013**
Eraslan, Ahmet N. Stress distributions in elastic-plastic rotating disks with elliptical thickness profiles using Tresca and von Mises criteria. (English summary)
Garikipati, Krishna *see* **Creighton, S. L. et al., 2005g:74020**
Gudkov, V. A. *see* **Radaev, Yu. N., 2005m:74016**
He, Qi-Chang (*with* Vallée, Claude; Lerintiu, C.) Explicit expressions for the plastic normality-flow rule associated to the Tresca yield criterion. (English summary) **2005i:74013**
Hill, James M. *see* **Thamwattana, Ngamta, 2005c:74011**
Ishlinskiĭ, A. Yu. *see* **Ivlev, D. D.**
Ivlev, D. D. (*with* Ishlinskiĭ, A. Yu.) On the theory of statically defined relations and the limit state of plastic bodies. (Russian)
— Theory of ideal plasticity, state and development. (Russian. English and Ukrainian summaries) **2005b:74024**
Kienesberger, Johanna (*with* Valdman, Jan) Multi-yield elastoplastic continuum-modeling and computations. (English summary) (*see* **2005j:65003**)
Klein, P. A. *see* **Creighton, S. L. et al., 2005g:74020**
Lerintiu, C. *see* **He, Qi-Chang et al., 2005i:74013**
Liu, Chein-Shan (*with* Chang, Chih-Wen) Non-canonical Minkowski and pseudo-Riemann frames of plasticity models with anisotropic quadratic yield criteria. (English summary) **2005h:74014**
Marin, E. B. *see* **Creighton, S. L. et al., 2005g:74020**
Marotti de Sciarra, Francesco Nonlocal and gradient rate plasticity. (English summary) **2005f:74018**
McDowell, D. L. *see* **Clayton, J. D. et al., 2005a:74024**
Menzel, A. (*with* Denzer, R.; Steinmann, Paul) On the comparison of two approaches to compute material forces for inelastic materials. Application to single-slip crystal-plasticity. (English summary) **2005g:74021**
Moullet, Jean-Christophe *see* **Chambon, René, 2005a:74022**
Orlando, A. (*with* Perić, D.) Analysis of transfer procedures in elastoplasticity based on the error in the constitutive equations: theory and numerical illustration. (English summary) **2005b:74025**
Perić, D. *see* **Orlando, A., 2005b:74025**
Pham Duc Chinh Shakedown static and kinematic theorems for elastic-plastic limited linear kinematic-hardening solids. (English summary) **2005i:74014**
Radaev, Yu. N. On the theory of three-dimensional equations in the mathematical theory of plasticity. (Russian. English and Russian summaries) **2005i:74015**
— Complementary theorems in the theory of the plane and axisymmetric problems of the mathematical theory of plasticity. (Russian. English and Russian summaries) **2005i:74016**
— (*with* Gudkov, V. A.) Group-invariant solutions of differential equations for an axisymmetric problem of the mathematical theory of plasticity. (Russian. English and Russian summaries) **2005m:74016**
Reddy, B. Daya *see* **Ebobisse, François, 2005h:74013**
Regueiro, Richard A. *see* **Creighton, S. L. et al., 2005g:74020**
Steinmann, Paul *see* **Menzel, A. et al., 2005g:74021**
Thamwattana, Ngamta (*with* Hill, James M.) Stress distributions within curved highly frictional granular stockpiles. (English summary) **2005c:74011**
Valdman, Jan *see* **Brokate, Martin et al., 2005g:74019**; **2005k:74015** *and* **Kienesberger, Johanna, (2005j:65003)**
Vallée, Claude *see* **He, Qi-Chang et al., 2005i:74013**
Watanabe, Kazumi (*with* Bin Nawi, Abu Hanipah) Exact closed form solution for an anti-plane deformation of anisotropic media. (English summary)
Willis, John R. *see* **Aifantis, K. E., 2005j:74007**

Items with secondary classifications in 74C05

Belytschko, Ted *see* **Samaniego, Esteban, 2005j:74055**
Beneš, Michal *see* **Minárik, Vojtěch et al., (2005j:65003)**
Bisbos, C. D. (*with* Makrodimopoulos, A.; Pardalos, Panos M.) Second-order cone programming approaches to static shakedown analysis in steel plasticity. (English summary)
Bojarski, Jarosław L. General method of regularization. I. Functionals defined on BD space. (English summary) **2005k:49036**
— General method of regularization. II. Relaxation proposed by Suquet. (English summary) **2005k:49037**
— General method of regularization. III. The unilateral contact problem. (English summary) **2005k:49038**
Büttner, Jörg (*with* Simeon, Bernd) Time integration of the dual problem of elastoplasticity by Runge-Kutta methods. (English summary) **2005e:65090**
Challamel, Noël Dynamic analysis of elastoplastic shakedown of structures. (English summary)
Chen, Jian^2 (*with* Yin, Jian-Hua; Lee, Chack Fan) The use of an SQP algorithm in slope stability analysis. (English summary)
Conti, Sergio (*with* Zanzotto, Giovanni) A variational model for reconstructive phase transformations in crystals, and their relation to dislocations and plasticity. (English summary) **2005d:74028**
Contrafatto, L. (*with* Cuomo, M.) A globally convergent numerical algorithm for damaging elasto-plasticity based on the multiplier method. (English summary)
Cuomo, M. *see* **Contrafatto, L.**
Fey, Michael *see* **Giese, Guido, 2005c:74031**
Fleck, Norman A. (*with* Willis, John R.) Bounds and estimates for the effect of strain gradients upon the effective plastic properties of an isotropic two-phase composite. (English summary) **2005b:74111**
Giese, Guido Nonlinear stability analysis for the method of transport for the elastic-plastic wave equation. (English summary) **2005m:74053**
— (*with* Fey, Michael) A high-resolution residual splitting scheme for the elastic-plastic wave equation. (English summary) **2005c:74031**
Gurtin, Morton E. (*with* Needleman, Alan) Boundary conditions in small-deformation, single-crystal plasticity that account for the Burgers vector. (English summary) **2005i:74019**
Huang, Mojia Perturbation approach to elastic constitutive relations of polycrystals. (English summary) **2005b:74031**
Kerswell, R. R. Dam break with Coulomb friction: a model for granular slumping? (English summary) **2005m:76182**
Konchakova, N. A. On the construction of continua with nonsymmetric tensors. (Russian. Russian summary) **2005b:74015**
Kratochvíl, Jan *see* **Minárik, Vojtěch et al., (2005j:65003)**
Lee, Chack Fan *see* **Chen, Jian^2 et al.**
Makrodimopoulos, A. *see* **Bisbos, C. D. et al.**
Miers, L. S. (*with* Telles, J. C. F.) A general tangent operator procedure for implicit elastoplastic BEM analysis. (English summary)
Mikula, Karol *see* **Minárik, Vojtěch et al., (2005j:65003)**
Minárik, Vojtěch (*with* Kratochvíl, Jan; Mikula, Karol; Beneš, Michal) Numerical simulation of dislocation dynamics. (English summary) (*see* **2005j:65003**)
Needleman, Alan *see* **Gurtin, Morton E., 2005i:74019**
Oliver, X. ★ Topics on failure mechanics. **2005a:74086**
Pardalos, Panos M. *see* **Bisbos, C. D. et al.**
Samaniego, Esteban (*with* Belytschko, Ted) Continuum-discontinuum modelling of shear bands. (English summary) **2005j:74055**
Simeon, Bernd *see* **Büttner, Jörg, 2005e:65090**
Telles, J. C. F. *see* **Miers, L. S.**
Weinberger, Hans F. Necessary conditions for the optimality of an extrusion die for a rigid-plastic material. (English summary) **2005g:74100**
Willis, John R. *see* **Fleck, Norman A., 2005b:74111**
Yin, Jian-Hua *see* **Chen, Jian^2 et al.**
Zanzotto, Giovanni *see* **Conti, Sergio, 2005d:74028**

74C10 Small-strain, rate-dependent theories (including theories of viscoplasticity)

Gurtin, Morton E. A gradient theory of small-deformation isotropic plasticity that accounts for the Burgers vector and for dissipation due to plastic spin. (English summary) **2005m:74017**
Larsson, Fredrik (*with* Runesson, Kenneth) Modeling and discretization errors in hyperelasto-(visco-)plasticity with a view to hierarchical modeling. (English summary) **2005g:74022**
Neff, Patrizio Local existence and uniqueness for quasistatic finite plasticity with grain boundary relaxation. (English summary) **2005j:74008**
Pompe, Waldemar Quasistatic and dynamic problems in viscoplasticity theory—nonlinearities with power growth. (English summary) **2005d:74006**
Runesson, Kenneth *see* **Larsson, Fredrik, 2005g:74022**

Items with secondary classifications in 74C10

Akulenko, L. D. (*with* Georgievskiĭ, D. V.; Klimov, D. M.; Kumakshev, S. A.; Nesterov, Sergeĭ V.) Stationary flow of a viscoplastic medium with small yield stress in a plane confusor. (English summary) **2005f:76004**
Alber, Hans-Dieter (*with* Chełmiński, Krzysztof) Quasistatic problems in viscoplasticity theory. I. Models with linear hardening. (English summary) **2005b:74053**
Böhlke, T. The Voigt bound of the stress potential of isotropic viscoplastic FCC polycrystals. (English summary)

Chełmiński, Krzysztof *see* **Alber, Hans-Dieter**, 2005b:74053
Ebobisse, François (*with* Reddy, B. Daya) Some mathematical problems in perfect plasticity. (English summary) **2005h:74013**
Fernández García, José Ramón (*with* Sofonea, Mircea) Variational and numerical analysis of the Signorini's contact problem in viscoplasticity with damage. **2005e:74040**
Frigaard, I. A. (*with* Ngwa, G. A.; Scherzer, Otmar) On effective stopping time selection for visco-plastic nonlinear BV diffusion filters used in image denoising. (English summary) **2005h:35022**
Georgievskiĭ, D. V. *see* **Akulenko, L. D. et al.**, 2005f:76004
Hild, Patrick (*with* Ionescu, Ioan R.; Lachand-Robert, Thomas; Roşca, Ioan) Stress formulation for the blocking property of the inhomogeneous Bingham fluid. (French summary)
Ionescu, Ioan R. *see* **Hild, Patrick et al.**
Kainz, Alexander *see* **Synka, Josef et al.**
Klein, Olaf Asymptotic behaviour for a phase-field model with hysteresis in one-dimensional thermo-visco-plasticity. (English summary) **2005c:74062**
Klimov, D. M. *see* **Akulenko, L. D. et al.**, 2005f:76004
Krejčí, Pavel (*with* Sprekels, Jürgen; Stefanelli, Ulisse) One-dimensional thermo-visco-plastic processes with hysteresis and phase transitions. (English summary) **2005h:74054**
Kumakshev, S. A. *see* **Akulenko, L. D. et al.**, 2005f:76004
Lachand-Robert, Thomas *see* **Hild, Patrick et al.**
Legoll, Frédéric Numerical homogenization of nonlinear viscoplastic two-dimensional polycrystals. (English summary) **2005m:74084**
Maringer, Robert *see* **Synka, Josef et al.**
Michel, Jean-Claude (*with* Suquet, P.) Computational analysis of nonlinear composite structures using the nonuniform transformation field analysis. (English summary) **2005f:74024**
Nedoma, Jiří On a coupled thermo-hydro-mechanical problem based on the thermo-visco-plastic rheology. (English summary) (*see* **2005g:65008**)
Nesterov, Sergeĭ V. *see* **Akulenko, L. D. et al.**, 2005f:76004
Ngwa, G. A. *see* **Frigaard, I. A. et al.**, 2005h:35022
Obereder, Andreas *see* **Synka, Josef et al.**
Reddy, B. Daya *see* **Ebobisse, François**, 2005h:74013
Roşca, Ioan *see* **Hild, Patrick et al.**
Scherzer, Otmar *see* **Frigaard, I. A. et al.**, 2005h:35022
Sofonea, Mircea *see* **Fernández García, José Ramón**, 2005e:74040
Sprekels, Jürgen *see* **Krejčí, Pavel et al.**, 2005h:74054
Stefanelli, Ulisse *see* **Krejčí, Pavel et al.**, 2005h:74054
Suquet, P. *see* **Michel, Jean-Claude**, 2005f:74024
Synka, Josef (*with* Kainz, Alexander; Maringer, Robert; Obereder, Andreas) Numerical analysis of a new Eulerian-Lagrangian finite element method applied to steady-state hot rolling processes. (English summary)

74C15 Large-strain, rate-independent theories (including nonlinear plasticity)

Acharya, Amit (*with* Tang, Huang; Saigal, Sunil; Bassani, John L.) On boundary conditions and plastic strain-gradient discontinuity in lower-order gradient plasticity. (English summary) **2005c:74012**
Anand, Lallit Single-crystal elasto-viscoplasticity: application to texture evolution in polycrystalline metals at large strains. (English summary) **2005g:74023**
— (*with* Su, Cheng) A theory for amorphous viscoplastic materials undergoing finite deformations, with application to metallic glasses. (English summary) **2005m:74018**
Bassani, John L. *see* **Acharya, Amit et al.**, 2005c:74012
Caillerie, Denis *see* **Chambon, René et al.**, 2005a:74025
Chambon, René (*with* Caillerie, Denis; Tamagnini, Claudio) A strain space gradient plasticity theory for finite strain. (English summary) **2005a:74025**
Cleja-Tigoiu, Sanda Dissipative nature of plastic deformations in finite anisotropic elasto-plasticity. (English summary) **2005b:74026**
Gao, Huajian *see* **Han, Chung-Souk et al.**
Gürses, E. *see* **Miehe, Christian et al.**, 2005f:74020
Han, Chung-Souk (*with* Gao, Huajian; Huang, Yonggang; Nix, William D.) Mechanism-based strain gradient crystal plasticity. I. Theory. (English summary)
— (*with* Gao, Huajian; Huang, Yonggang; Nix, William D.) Mechanism-based strain gradient crystal plasticity. II. Analysis. (English summary)
Hasanov, Alemdar Integral convexity argument for plasticity function and monotonicity of iteration process for elasto-plastic problems. (English summary) **2005d:74007**
Huang, Yonggang *see* **Han, Chung-Souk et al.**
Lambrecht, Matthias *see* **Miehe, Christian et al.**, 2005f:74020
Liu, Chein-Shan Internal symmetry groups for the Drucker-Prager material model of plasticity and numerical integrating methods. (English summary) **2005c:74013**
Lu, Jia (*with* Papadopoulos, Panayiotis) A covariant formulation of anisotropic finite plasticity: theoretical developments. (English summary) **2005f:74019**
Miehe, Christian (*with* Lambrecht, Matthias; Gürses, E.) Analysis of material instabilities in inelastic solids by incremental energy minimization and relaxation methods: evolving deformation microstructures in finite plasticity. (English summary) **2005f:74020**
Mosler, J. Numerical analyses of discontinuous material bifurcation: strong and weak discontinuities. (English summary) **2005h:74015**
Nix, William D. *see* **Han, Chung-Souk et al.**
Papadopoulos, Panayiotis *see* **Lu, Jia**, 2005f:74019
Saigal, Sunil *see* **Acharya, Amit et al.**, 2005c:74012
Su, Cheng *see* **Anand, Lallit**, 2005m:74018
Tamagnini, Claudio *see* **Chambon, René et al.**, 2005a:74025
Tang, Huang *see* **Acharya, Amit et al.**, 2005c:74012
Tian-hu, Hao Lagrange multiplier method of the general variational principles of finite deformation theory of couple stress and its application in the strain gradient plasticity. (English summary)

Items with secondary classifications in 74C15

Adams, B. L. *see* **Lyon, M.**, 2005f:74069
Angelov, Todor A. Variational analysis of a rigid-plastic rolling problem. (English summary) **2005h:74051**
Apel, Nikolas *see* **Miehe, Christian**, 2005f:74053
Billington, E. W. Generalisation of Hooke's law for finite strain to include the elastic range of strain-hardening materials. (English summary) **2005f:74013**
Borouchaki, H. (*with* Laug, Patrick; Cherouat, A.; Saanouni, Khémais) Adaptive remeshing in large plastic strain with damage. (English summary)
Brokate, Martin (*with* Rachinskiĭ, D. I.) On global stability of the scalar Chaboche models. (English summary) **2005h:34122**
Carstensen, Carsten Ten remarks on nonconvex minimisation for phase transition simulations. (English summary) **2005g:74092**
Cherouat, A. *see* **Borouchaki, H. et al.**
Chiadò Piat, Valeria (*with* Sandrakov, G. V.) Homogenization of some variational inequalities for elasto-plastic torsion problems. (English summary) **2005g:49013**
Guz', A. N. (*with* Guz', I. A.) Mixed two-dimensional problems of the linearized mechanics of deformable bodies. Exact solutions. (Russian. English and Ukrainian summaries) **2005k:74008**
Guz', I. A. *see* **Guz', A. N.**, 2005k:74008
Idone, Giovanna (*with* Maugeri, Antonino) Equilibrium problems. (English summary) (*see* **2005m:90002**)
Krejčí, Pavel (*with* Sprekels, Jürgen; Stefanelli, Ulisse) Phase-field models with hysteresis in one-dimensional thermoviscoplasticity. (English summary) **2005d:74031**
Langenbach, Arno Über einige Modellgleichungen der Mechanik in der Funktionalanalysis. [On some model equations of mechanics in functional analysis] (*see* **2005g:00013**)
Larsson, Fredrik (*with* Runesson, Kenneth) Modeling and discretization errors in hyperelasto-(visco-)plasticity with a view to hierarchical modeling. (English summary) **2005g:74022**
Laug, Patrick *see* **Borouchaki, H. et al.**
Lyon, M. (*with* Adams, B. L.) Gradient-based non-linear microstructure design. (English summary) **2005f:74069**
Maugeri, Antonino *see* **Idone, Giovanna**, (2005m:90002)
Miehe, Christian (*with* Apel, Nikolas) Anisotropic elastic-plastic analysis of shells at large strains. A comparison of multiplicative and additive approaches to enhanced finite element design and constitutive modelling. (English summary) **2005f:74053**
Mielke, Alexander Deriving new evolution equations for microstructures via relaxation of variational incremental problems. (English summary) **2005i:74034**
Mota, A. *see* **Yang, Qiang[1] et al.**, 2005i:74076
Ortiz, Michael *see* **Yang, Qiang[1] et al.**, 2005i:74076
Rachinskiĭ, D. I. *see* **Brokate, Martin**, 2005h:34122
Runesson, Kenneth *see* **Larsson, Fredrik**, 2005g:74022
Saanouni, Khémais *see* **Borouchaki, H. et al.**
Sandrakov, G. V. *see* **Chiadò Piat, Valeria**, 2005g:49013
Sprekels, Jürgen *see* **Krejčí, Pavel et al.**, 2005d:74031
Stefanelli, Ulisse Phase transitions and hysteresis in one-dimensional thermo-plasticity. **2005g:74096**
— *see also* **Krejčí, Pavel et al.**, 2005d:74031
Steinhauer, Mark ★ On analysis of some nonlinear systems of partial differential equations of continuum mechanics. (English summary) **2005h:35341**
Tsvelodub, I. Yu. Some geometrically nonlinear problems of the deformation of inelastic plates and shallow shells. (Russian. Russian summary) **2005m:74060**
Yang, Qiang[1] (*with* Mota, A.; Ortiz, Michael) A class of variational strain-localization finite elements. (English summary) **2005i:74076**

74C20 Large-strain, rate-dependent theories

Items with secondary classifications in 74C20

Acharya, Amit (*with* Tang, Huang; Saigal, Sunil; Bassani, John L.) On boundary conditions and plastic strain-gradient discontinuity in lower-order gradient plasticity. (English summary) **2005c:74012**
Bassani, John L. *see* **Acharya, Amit et al.**, 2005c:74012
Cho, Joon-Yeoun *see* **Idesman, A. V. et al.**, 2005h:74060
Dinzart, F. (*with* Molinari, Alain) Linear stability analysis for a thermoviscoplastic material under cyclic axial loading. (English summary) **2005k:74024**
Idesman, A. V. (*with* Levitas, V. I.; Preston, D. L.; Cho, Joon-Yeoun) Finite element simulations of martensitic phase transitions and microstructures based on a strain softening model. (English summary) **2005h:74060**
Levitas, V. I. *see* **Idesman, A. V. et al.**, 2005h:74060
Molinari, Alain *see* **Dinzart, F.**, 2005k:74024
Preston, D. L. *see* **Idesman, A. V. et al.**, 2005h:74060
Saigal, Sunil *see* **Acharya, Amit et al.**, 2005c:74012
Tang, Huang *see* **Acharya, Amit et al.**, 2005c:74012

74C99 None of the above, but in this section

Bigoni, Davide *see* **Gajo, A. et al.**, 2005f:74021
Chang, Chih-Wen *see* **Liu, Chein-Shan**, 2005c:74014
Dequiedt, J. L. (*with* Stolz, C.) Propagation of a shock discontinuity in an elasto-plastic material: constitutive relations. (English summary) **2005g:74024**
Favretti, Marco Computation of the phase fraction in a discrete model of a pseudoelastic material. (English summary) (*see* **2005c:00016**)
Gajo, A. (*with* Bigoni, Davide; Muir Wood, D.) Multiple shear band development and related instabilities in granular materials. (English summary) **2005f:74021**
Gudkov, V. A. *see* **Radaev, Yu. N.**
Hjiaj, Mohammed *see* **Telega, J. Joachim et al.**, 2005i:74017
Khoi, Vu Duc *see* **Nguyen-Dang Hung et al.**, (2005g:74002)
Liu, Chein-Shan (*with* Chang, Chih-Wen) Lie group symmetry applied to the computation of convex plasticity constitutive equation. (English summary) **2005c:74014**
Muir Wood, D. *see* **Gajo, A. et al.**, 2005f:74021

Nguyen-Dang Hung (*with* Yan, Ai-Min; Khoi, Vu Duc) Duality in kinematic approaches of limit and shakedown analysis of structures. (English summary) (*see* **2005g:74002**)
Nguyen Quoc Son Min-max duality and shakedown theorems in hardening plasticity. (English summary) **2005h:74016**
Radaev, Yu. N. (*with* Gudkov, V. A.) Symmetry groups of differential equations for an axisymmetric problem in the mathematical theory of plasticity. (Russian. English and Russian summaries)
Senashov, Sergeĭ I. (*with* Yakhno, A. N.) 2-dimensional plasticity: boundary problems and conservation laws, reproduction of solutions. (English summary)
Sloan, Scott W. *see* **Telega, J. Joachim et al., 2005i:74017**
Stolz, C. *see* **Dequiedt, J. L., 2005g:74024**
Suiker, A. S. J. *see* **Turteltaub, Sergio, 2005m:74019**
Svendsen, Bob On thermodynamic- and variational-based formulations of models for inelastic continua with internal lengthscales. (English summary) **2005g:74025**
Telega, J. Joachim (*with* Hjiaj, Mohammed; Sloan, Scott W.) An extension of limit analysis theorems to incompressible material with a non-associated flow rule. (English summary) **2005i:74017**
Turteltaub, Sergio (*with* Suiker, A. S. J.) Transformation-induced plasticity in ferrous alloys. (English summary) **2005m:74019**
Yakhno, A. N. *see* **Senashov, Sergeĭ I.**
Yan, Ai-Min *see* **Nguyen-Dang Hung et al., (2005g:74002)**
Zhang, Hongwu *see* **Zhong, Wan Xie, (2005g:74002)**
Zhong, Wan Xie (*with* Zhang, Hongwu) Mixed energy method for solution of quadratic programming problems. (English summary) (*see* **2005g:74002**)

Items with secondary classifications in 74C99

Acharya, Amit *see* **Miller, Ronald E., 2005a:74031**
Aksel, Nuri *see* **Itskov, Mikhail, 2005i:74003**
Alart, Pierre *see* **Renouf, Mathieu, 2005m:74073**
Belytschko, Ted *see* **Xiao, Shao Ping, 2005j:74057**
Buratti, Giovanni Stresses and deflections in a pseudo-elastic beam under cyclic loads. (English summary)
Chanda, T. *see* **Svendsen, Bob, 2005k:74003**
Cox, Grant M. (*with* Hill, James M.) Some exact velocity profiles for granular flow in converging hoppers. (English summary)
Elżanowski, Marek *see* **Epstein, Marcelo, 2005b:74014**
Epstein, Marcelo (*with* Elżanowski, Marek) A model of the evolution of a two-dimensional defective structure. (English summary) **2005b:74014**
Fang, Chung *see* **Luca, I. et al., 2005a:76159**
Fortin, Jérôme (*with* Millet, O.; de Saxcé, Géry) Numerical simulation of granular materials by an improved discrete element method. (English summary) **2005i:76113**
Galiano, Gonzalo (*with* Jüngel, Ansgar; Velasco Valdés, Julián) A parabolic cross-diffusion system for granular materials. (English summary) **2005d:35128**
Gardiner, B. S. *see* **Tordesillas, A. et al., 2005g:74031**
Gremaud, Pierre A. (*with* Matthews, John V.) On the computation of steady hopper flows. (English summary)
— (*with* Matthews, John V.; O'Malley, Meghan) On the computation of steady hopper flows. II. Von Mises materials in various geometries. (English summary)
Hill, James M. *see* **McCue, Scott W. et al., 2005i:74020**; **Thamwattana, Ngamta, 2005i:76114** *and* **Cox, Grant M.**
Hutter, Kolumban *see* **Luca, I. et al., 2005a:76159**
Itskov, Mikhail (*with* Aksel, Nuri) A closed-form representation for the derivative of non-symmetric tensor power series. (English summary) **2005i:74003**
Johnpillai, I. Kenneth *see* **McCue, Scott W. et al., 2005i:74020**
Jüngel, Ansgar *see* **Galiano, Gonzalo et al., 2005d:35128**
Knops, R. J. (*with* Villaggio, Piero) An approximate treatment of blunt body impact. (English summary) **2005b:74095**
Kratochvíl, Jan (*with* Málek, Josef; Rajagopal, Kumbakonam; Srinivasa, A. R.) Modeling of the response of elastic plastic materials treated as a mixture of hard and soft regions. (English summary) **2005a:74030**
Krejčí, Pavel (*with* Kuhnen, Klaus) Error estimates for the discrete inversion of hysteresis and creep operators. (English summary) **2005e:74048**
Kuhnen, Klaus *see* **Krejčí, Pavel, 2005e:74048**
Leszczynski, Jacek S. Computer simulations of multiparticle-contacts dynamics. (English summary) (*see* **2005c:00014**)
Lewiński, T. Michell structures formed on surfaces of revolution. (English summary) **2005c:74063**
Luca, I. (*with* Fang, Chung; Hutter, Kolumban) A thermodynamic model of turbulent motions in a granular material. (English summary) **2005a:76159**
Málek, Josef *see* **Kratochvíl, Jan et al., 2005a:74030**
Matthews, John V. *see* **Gremaud, Pierre A. et al.**
McCue, Scott W. (*with* Johnpillai, I. Kenneth; Hill, James M.) New stress and velocity fields for highly frictional granular materials. (English summary) **2005i:74020**
Miller, Ronald E. (*with* Acharya, Amit) A stress-gradient based criterion for dislocation nucleation in crystals. (English summary) **2005a:74031**
Millet, O. *see* **Fortin, Jérôme et al., 2005i:76113**
Noels, L. (*with* Stainier, L.; Ponthot, J.-P.) Combined implicit/explicit time-integration algorithms for the numerical simulation of sheet metal forming. (English summary)
O'Malley, Meghan *see* **Gremaud, Pierre A. et al.**
Ortiz, Michael *see* **Sivakumar, Srinivasan M., 2005g:74030**
Ponthot, J.-P. *see* **Noels, L. et al.**
Rajagopal, Kumbakonam (*with* Srinivasa, A. R.) On the thermomechanics of materials that have multiple natural configurations. I. Viscoelasticity and classical plasticity. (English summary) **2005c:74004**
— (*with* Srinivasa, A. R.) On the role of the Eshelby energy-momentum tensor in materials with multiple natural configurations. (English summary) **2005h:74008**
— *see also* **Kratochvíl, Jan et al., 2005a:74030**
Renouf, Mathieu (*with* Alart, Pierre) Conjugate gradient type algorithms for frictional multi-contact problems: applications to granular materials. (English summary) **2005m:74073**
Sadovskaya, O. V. The method of through calculation for studying elastoplastic waves in a granular medium. (Russian. Russian summary) **2005j:74032**
— *see also* **Sadovskiĭ, V. M., (2005b:00020)**
Sadovskiĭ, V. M. (*with* Sadovskaya, O. V.) Mathematical modeling of elastic-plastic waves in granular media. (English summary) (*see* **2005b:00020**)
de Saxcé, Géry *see* **Fortin, Jérôme et al., 2005i:76113**
Sivakumar, Srinivasan M. (*with* Ortiz, Michael) Microstructure evolution in the equal channel angular extrusion process. (English summary) **2005g:74030**
Srinivasa, A. R. *see* **Kratochvíl, Jan et al., 2005a:74030**; **Rajagopal, Kumbakonam, 2005c:74004** *and* **2005h:74008**
Stainier, L. *see* **Noels, L. et al.**
Svendsen, Bob (*with* Chanda, T.) Continuum thermodynamic formulation of models for electromagnetic thermoinelastic solids with application in electromagnetic metal forming. (English summary) **2005k:74003**
Thamwattana, Ngamta (*with* Hill, James M.) Perturbation solutions for highly frictional granular media. (English summary) **2005i:76114**
Tordesillas, A. (*with* Walsh, S. D. C.; Gardiner, B. S.) Bridging the length scales: micromechanics of granular media. (English summary) **2005g:74031**
Truskinovsky, Lev (*with* Vainchtein, Anna) The origin of nucleation peak in transformational plasticity. (English summary) **2005a:74078**
Vainchtein, Anna *see* **Truskinovsky, Lev, 2005a:74078**
Velasco Valdés, Julián *see* **Galiano, Gonzalo et al., 2005d:35128**
Villaggio, Piero *see* **Knops, R. J., 2005b:74095**
Walsh, S. D. C. *see* **Tordesillas, A. et al., 2005g:74031**
Xiao, Shao Ping (*with* Belytschko, Ted) Material stability analysis of particle methods. (English summary) **2005j:74057**
Yu, Hai Sui Three-dimensional analytical solutions for shakedown of cohesive-frictional materials under moving surface loads. (English summary)
Zohdi, T. I. Charge-induced clustering in multifield particulate flows. (English summary) **2005h:76081**

74Dxx Materials of strain-rate type and history type, other materials with memory (including elastic materials with viscous damping, various viscoelastic materials)

Items with secondary classifications in 74Dxx

Baltov, A. *see* **Lebon, Georgy et al.**
Grmela, Miroslav *see* **Lebon, Georgy et al.**
Lebon, Georgy (*with* Baltov, A.; Grmela, Miroslav) Extended thermodynamics of thermo-elasticity, visco-elasticity and visco-plasticity. (English summary)

74D05 Linear constitutive equations

Adolfsson, Klas (*with* Enelund, M.; Larsson, Stig) Adaptive discretization of fractional order viscoelasticity using sparse time history. (English summary) **2005d:74008**
Cavalcanti, Marcelo Moreira (*with* Domingos Cavalcanti, Valéria N.; Ma, T. F.) Exponential decay of the viscoelastic Euler-Bernoulli equation with a nonlocal dissipation in general domains. (English summary) **2005a:74026**
De Angelis, M. (*with* Massarotti, P.; Renno, P.) Wave hierarchies in viscoelasticity. (English summary) **2005g:74026**
Del Piero, Gianpietro The relaxed work functional in linear viscoelasticity. **2005b:74027**
Desch, W. (*with* Fašangová, Eva) Stress boundary value problem in linear viscoelasticity. (English summary) **2005j:74009**
Domingos Cavalcanti, Valéria N. *see* **Cavalcanti, Marcelo Moreira et al., 2005a:74026**
Enelund, M. *see* **Adolfsson, Klas et al., 2005d:74008**
Fabrizio, Mauro Gentili's norm on the process and state spaces in linear viscoelasticity. **2005b:74028**
— (*with* Giorgi, Claudio; Naso, Maria Grazia) Viscoelastic solids of exponential typ Minimal representations and controllability. (English summary) **2005k:**
— (*with* Giorgi, Claudio; Naso, Maria Grazia) Viscoelastic solids of exponential type. II. Free energies, stability and attractors. (English summary) **2005k:74017**
— (*with* Morro, Angelo) Equivalent histories, minimal state and initial value problem in viscoelasticity. (English summary) **2005m:74020**
Fašangová, Eva *see* **Desch, W., 2005j:74009**
Fukunaga, Masataka (*with* Shimizu, Nobuyuki) Role of prehistories in the initial valu problems of fractional viscoelastic equations. (English summary)
Giorgi, Claudio *see* **Fabrizio, Mauro et al., 2005k:74016** *and* **2005k:74017**
Hanyga, Andrzej *see* **Seredyńska, Małgorzata, 2005a:74027**
Lakes, Roderic *see* **Wang, Yun-Che, 2005j:74010**
Larsson, Stig *see* **Adolfsson, Klas et al., 2005d:74008**
Ma, T. F. *see* **Cavalcanti, Marcelo Moreira et al., 2005a:74026**
Massarotti, P. *see* **De Angelis, M. et al., 2005g:74026**
Morro, Angelo *see* **Fabrizio, Mauro, 2005m:74020**
Naso, Maria Grazia *see* **Fabrizio, Mauro et al., 2005k:74016** *and* **2005k:74017**
Renno, P. *see* **De Angelis, M. et al., 2005g:74026**
Seredyńska, Małgorzata (*with* Hanyga, Andrzej) A scalar model of viscoelasticity with singular memory. **2005a:74027**
Shimizu, Nobuyuki *see* **Fukunaga, Masataka**
Surguladze, T. A. Constitutive relations of viscoelasticity that contain fractional derivatives (Russian. Russian summary)
Wang, Yun-Che (*with* Lakes, Roderic) Stability of negative stiffness viscoelastic systems. (English summary) **2005j:74010**

Items with secondary classifications in 74D05

Abd-Alla, A. M. (*with* Hammad, H. A. H.; Abo-Dahab, S. M.) Magneto-thermo-viscoelastic interactions in an unbounded body with a spherical cavity subjected to a

periodic loading. (English summary) **2005c:74024**

Abo-Dahab, S. M. *see* **Abd-Alla, A. M. et al., 2005c:74024**

Asaduzzaman, M. (*with* Saitoh, Saburou; Sakanishi, Akio) Solutions and their truncation error estimates of a relaxation spectrum equation. (English summary) **2005f:44004**

Atallah-Baraket, Amel (*with* Fermanian Kammerer, Clotilde) High frequency analysis of families of solutions to the equation of viscoelasticity of Kelvin-Voigt. (English summary) **2005i:35260**

Atkinson, Colin *see* **Chen, Ching-Yu, 2005i:74070**

Bahuguna, Dhirendra (*with* Shukla, Reeta) Evolution equations arising in the study of materials with memory. (English summary) **2005m:35296**

Bajkowski, J. (*with* Fernández García, José Ramón; Kuttler, Kenneth L.; Shillor, Meir) A thermoviscoelastic beam model for brakes. (English summary) **2005a:74072**

Bécache, Eliane (*with* Ezziani, Abdelaâziz; Joly, Patrick) Mathematical and numerical modeling of wave propagation in linear viscoelastic media. (*see* **2005b:00020**)

— (*with* Ezziani, Abdelaâziz; Joly, Patrick) A mixed finite element approach for viscoelastic wave propagation. (English summary) **2005k:74073**

Chen, Ching-Yu (*with* Atkinson, Colin) The influence of layer thickness on the stress intensity factor of a penny-shaped crack in a sandwiched viscoelastic bimaterial. (English summary) **2005i:74070**

Chernyshov, A. D. Two-dimensional dynamic boundary value problems for curvilinear thermoelastic bodies. (Russian. Russian summary) **2005m:74022**

Chill, Ralph (*with* Fašangová, Eva) Convergence to steady states of solutions of semilinear evolutionary integral equations. (English summary) **2005i:45013**

Coimbra, Carlos F. M. Mechanics with variable-order differential operators. (English summary) **2005d:26008**

Copetti, Maria I. M. Numerical approximation of a thermoviscoelastic problem to the contact of two rods by a penalty method. (English summary) **2005g:74089**

De Cicco, S. (*with* Nappa, L.) Singular surfaces in thermoviscoelastic materials with voids. (English summary) **2005b:74010**

El-Karamany, Ahmed S. Maysel's formula in the generalized linear micropolar thermoviscoelasticity. (English summary) **2005g:74036**

Ezziani, Abdelaâziz *see* **Bécache, Eliane et al., 2005k:74073** *and* **(2005b:00020)**

Fabrizio, Mauro (*with* Golden, Murrough) Minimum free energies for materials with finite memory. (English summary) **2005c:74002**

Fašangová, Eva *see* **Chill, Ralph, 2005i:45013**

Fermanian Kammerer, Clotilde *see* **Atallah-Baraket, Amel, 2005i:35260**

Fernández García, José Ramón *see* **Bajkowski, J. et al., 2005a:74072**

Ferreira, Jorge (*with* de Lima Santos, Mauro; Matos, M. P.) Stability for the beam equation with memory in non-cylindrical domains. (English summary) **2005e:35229**

Fish, Jacob *see* **Yu, Qing, 2005i:74066**

Foutsitzi, G. (*with* Stavroulakis, G. E.) A variational inequality approach to thermoviscoelasticity with monotone unilateral boundaries of kinematical and thermal type. (English summary) **2005e:74041**

Gao, Liping (*with* Liang, Dong; Zhang, Bo[1]) Error estimates for mixed finite element approximations of the viscoelasticity wave equation. (English summary) **2005i:65141**

Gatski, T. B. *see* **Jongen, T., 2005k:76010**

Giorgi, Claudio (*with* Vegni, Federico Mario) Uniform energy estimates for a semilinear evolution equation of the Mindlin-Timoshenko beam with memory. (English summary) **2005b:35274**

Golden, J. M. A proposal concerning the physical rate of dissipation in materials with memory. (English summary) **2005k:74002**

Golden, Murrough *see* **Fabrizio, Mauro, 2005c:74002**

Groby, Jean-Philippe (*with* Tsogka, Chrysoula) A time domain method for modeling wave propagation phenomena in viscoacoustic media. (English summary) (*see* **2005b:00020**)

Guo, Bao Zhu *see* **Zhang, Q., 2005e:93078**

Hammad, H. A. H. *see* **Abd-Alla, A. M. et al., 2005c:74024**

Hoarau-Mantel, Thierry-Vincent *see* **Sofonea, Mircea et al., 2005c:74060**

Ingman, D. (*with* Suzdal′nitskiĭ, I. D.) Control of damping oscillations by fractional differential operator with time-dependent order. (English summary)

Iovane, Gerardo (*with* Passarella, Francesca) Saint-Venant's principle in dynamic porous thermoelastic media with memory for heat flux. (English summary) **2005g:74039**

Itou, Hiromichi (*with* Tani, Atusi) Existence of a weak solution in an infinite viscoelastic strip with a semi-infinite crack. (English summary) **2005c:35280**

Ivanov, Ts. P. (*with* Savova, R.) On the uniqueness of the surface waves in linear viscoelasticity. (English summary) **2005h:74032**

Joly, Patrick *see* **Bécache, Eliane et al., 2005k:74073** *and* **(2005b:00020)**

Jongen, T. (*with* Gatski, T. B.) Tensor representations and solutions of constitutive equations for viscoelastic fluids. (English summary) **2005k:76010**

Kempfle, Siegmar *see* **Schäfer, Ingo**

Kuttler, Kenneth L. *see* **Bajkowski, J. et al., 2005a:74072**

Li, Fu-shan Asymptotic analysis of linearly viscoelastic shells. (English summary) **2005h:74044**

Liang, Dong *see* **Gao, Liping et al., 2005i:65141**

de Lima Santos, Mauro *see* **Ferreira, Jorge et al., 2005e:35229**

Liu, Kang Sheng (*with* Rao, Bopeng) Stabilité exponentielle des équations des ondes avec amortissement local de Kelvin-Voigt. (English and French summaries) [Exponential stability for wave equations with local Kelvin-Voigt damping] **2005g:93095**

— *see also* **Zhao, Hong Liang[1] et al., 2005b:74076**

Liu, Zhuangyi *see* **Zhao, Hong Liang[1] et al., 2005b:74076**

Lychëv, S. A. (*with* Senitskiĭ, Yu. È.) Nonsymmetric integral transformations and their applications to problems of viscoelasticity. (Russian. English and Russian summaries)

— Non-steady-state oscillations of an aging viscoelastic rod. (Russian. English and Russian summaries)

Ma, Zaitian *see* **Wang, Huazhong et al.**

Matos, M. P. *see* **Ferreira, Jorge et al., 2005e:35229**

Mikhaĭlenko, B. G. (*with* Mikhaĭlov, A. A.; Reshetova, Galina) Spectral Laguerre method for viscoelastic seismic modeling. (English summary) **2005c:86006**

Mikhaĭlov, A. A. *see* **Mikhaĭlenko, B. G. et al., 2005c:86006**

Morro, Angelo Uniqueness of the solution to the reflection-transmission problem in a viscoelastic layer. (English summary) (*see* **2005b:00020**)

Mukhopadhyay, Basudeb *see* **Rakshit Kundu, M., 2005j:74012**

Muñoz Rivera, Jaime Edilberto (*with* Naso, Maria Grazia) Exact controllability for hyperbolic thermoelastic systems with large memory. (English summary) **2005h:93019**

— *see also* **Santiago Ayala, Yolanda S., 2005k:35408**

Nappa, L. *see* **De Cicco, S., 2005b:74010**

Naso, Maria Grazia *see* **Muñoz Rivera, Jaime Edilberto, 2005h:93019**

Passarella, Francesca *see* **Iovane, Gerardo, 2005g:74039**

Potapov, V. D. Stability of stochastic systems with memory. (English summary)

Rakshit Kundu, M. (*with* Mukhopadhyay, Basudeb) A thermoviscoelastic problem of an infinite medium with a spherical cavity using generalized theory of thermoelasticity. (English summary) **2005j:74012**

Rao, Bopeng *see* **Liu, Kang Sheng, 2005g:93095**

Renardy, Michael On localized Kelvin-Voigt damping. (English summary) **2005a:35273**

Reshetova, Galina *see* **Mikhaĭlenko, B. G. et al., 2005c:86006**

Rodríguez-Arós, A. *see* **Sofonea, Mircea et al., 2005c:74060**

Saitoh, Saburou *see* **Asaduzzaman, M. et al., 2005f:44004**

Sakanishi, Akio *see* **Asaduzzaman, M. et al., 2005f:44004**

Santiago Ayala, Yolanda S. (*with* Muñoz Rivera, Jaime Edilberto) Exponential decay for a von Kármán system with memory. (English summary) **2005k:35408**

Savova, R. *see* **Ivanov, Ts. P., 2005h:74032**

Schäfer, Ingo (*with* Kempfle, Siegmar) Impulse responses of fractional damped systems. (English summary)

Senitskiĭ, Yu. È. *see* **Lychëv, S. A.**

Shaw, Simon C. (*with* Whiteman, J. R.) A posteriori error estimates for space-time finite element approximation of quasistatic hereditary linear viscoelasticity problems. (English summary) **2005h:74061**

Shillor, Meir *see* **Bajkowski, J. et al., 2005a:74072**

Shukla, Reeta *see* **Bahuguna, Dhirendra, 2005m:35296**

Sofonea, Mircea (*with* Hoarau-Mantel, Thierry-Vincent; Viaño Rey, Juan M.; Rodríguez-Arós, A.) Creep formulation of a quasistatic frictional contact problem. (English summary) **2005c:74060**

Stavroulakis, G. E. *see* **Foutsitzi, G., 2005e:74041**

Suzdal′nitskiĭ, I. D. *see* **Ingman, D.**

Taha, M. H. Vibration analysis of viscoelastic nonuniform shear plates. (English summary)

Tani, Atusi *see* **Itou, Hiromichi, 2005c:35280**

Tatar, Nasser-Eddine Long time behavior for a viscoelastic problem with a positive definite kernel. (English summary) **2005g:35287**

Tsogka, Chrysoula *see* **Groby, Jean-Philippe, (2005b:00020)**

Vegni, Federico Mario *see* **Giorgi, Claudio, 2005b:35274**

Viaño Rey, Juan M. *see* **Sofonea, Mircea et al., 2005c:74060**

Wang, Huazhong (*with* Zhang, Libin; Ma, Zaitian) Seismic wave imaging in visco-acoustic media. (English summary)

Whiteman, J. R. *see* **Shaw, Simon C., 2005h:74061**

Yu, Qing (*with* Fish, Jacob) Multiscale asymptotic homogenization for multiphysics problems with multiple spatial and temporal scales: a coupled thermo-viscoelastic example problem. (English summary) **2005i:74066**

Zhang, Bo[1] *see* **Gao, Liping et al., 2005i:65141**

Zhang, Libin *see* **Wang, Huazhong et al.**

Zhang, Q. (*with* Guo, Bao Zhu) Stabilization of an elastic plate with viscoelastic boundary conditions. (English summary) **2005e:93078**

Zhao, Hong Liang[1] (*with* Liu, Kang Sheng; Liu, Zhuangyi) A note on the exponential decay of energy of a Euler-Bernoulli beam with local viscoelasticity. (English summary) **2005b:74076**

74D10 Nonlinear constitutive equations

Adolfsson, Klas Nonlinear fractional order viscoelasticity at large strains. (English summary)

Banks, H. T. (*with* Medhin, Negash G.; Pinter, Gabriella A.) Nonlinear reptation in molecular based hysteresis models for polymers. (English summary) **2005f:74022**

Carillo, Sandra Some remarks on materials with memory: heat conduction and viscoelasticity. (English summary) **2005h:74017**

Fabrizio, Mauro Free energies in the materials with fading memory and applications to PDEs. (*see* **2005c:00016**)

Hayes, Michael A. (*with* Saccomandi, Giuseppe) Antiplane shear motions for viscoelastic Mooney-Rivlin materials. (English summary) **2005g:74027**

Liu, Ya Cheng (*with* Zhao, Jun Sheng) Multidimensional viscoelasticity equations with nonlinear damping and source terms. (English summary) **2005a:74028**

Medhin, Negash G. *see* **Banks, H. T. et al., 2005f:74022**

Pinter, Gabriella A. *see* **Banks, H. T. et al., 2005f:74022**

Saccomandi, Giuseppe *see* **Hayes, Michael A., 2005g:74027**

Zhao, Jun Sheng *see* **Liu, Ya Cheng, 2005a:74028**

Items with secondary classifications in 74D10

Alber, Hans-Dieter (*with* Chełmiński, Krzysztof) Quasistatic problems in viscoplasticity theory. I. Models with linear hardening. (English summary) **2005b:74053**

Awbi, Bassam *see* **Chau, Oanh, 2005c:74058**

Ayzenberg-Stepanenko, M. V. *see* **Slepyan, Leonid, 2005a:74077**

Bae, Jeong Ja Uniform decay of solutions for viscoelastic problem with nonlinear boundary damping and memory term. (English summary) **2005i:35261**

Barboteu, Mikaël (*with* Hoarau-Mantel, Thierry-Vincent; Sofonea, Mircea) On the frictionless unilateral contact of two viscoelastic bodies. **2005i:74059**

Belmonte, Andrew *see* **Podgorski, T., 2005h:76008**

Berrimi, Said (*with* Messaoudi, Salim A.) Exponential decay of solutions to a viscoelastic equation with nonlinear localized damping. (English summary) **2005e:35161**

Bock, Igor (*with* Lovíšek, Ján) On a contact problem for a viscoelastic von Kármán plate and its semidiscretization. (English summary) **2005k:49020**

Bonetti, Elena (*with* Frémond, Michel) Damage theory: microscopic effects of vanishing macroscopic motions. (English summary) **2005b:74008**

Brevdo, Leonid (*with* Il'ichev, A. T.) Absolute instability of a thin visco-elastic plate in an air flow. (English summary) **2005f:74028**
Campo Andión, M. (*with* Fernández García, José Ramón) Numerical analysis of a quasistatic thermoviscoelastic frictional contact problem. (English summary) **2005k:74062**
Cavalcanti, Marcelo Moreira (*with* Portillo Oquendo, Higidio) Frictional versus viscoelastic damping in a semilinear wave equation. (English summary) **2005d:35257**
Chau, Oanh (*with* Awbi, Bassam) Quasistatic thermoviscoelastic frictional contact problem with damped response. (English summary) **2005c:74058**
Chełmiński, Krzysztof *see* **Alber, Hans-Dieter**, **2005b:74053**
Chen, Li Qun (*with* Cheng, Chang-Jun) Instability of nonlinear viscoelastic plates. (English summary) **2005h:74040**
Cheng, Chang-Jun *see* **Chen, Li Qun**, **2005h:74040**
Cocou, Marius (*with* Scarella, Gilles) Existence of a solution to a dynamic unilateral contact problem for a cracked viscoelastic body. (English and French summaries) **2005c:74059**
Demiray, Hilmi On some nonlinear waves in fluid-filled viscoelastic tubes: weakly dispersive case. (English summary) **2005g:74043**
Destrade, Michel (*with* Saccomandi, Giuseppe) Finite-amplitude inhomogeneous waves in Mooney-Rivlin viscoelastic solids. (English summary) **2005b:74058**
Fabrizio, Mauro (*with* Giorgi, Claudio; Naso, Maria Grazia) Viscoelastic solids of exponential type. I. Minimal representations and controllability. (English summary) **2005k:74016**
Fernández García, José Ramón (*with* Han, Weimin; Sofonea, Mircea) Numerical simulations in the study of frictionless viscoelastic contact problems. (English summary)
— *see also* **Campo Andión, M.**, **2005k:74062**
Frémond, Michel *see* **Bonetti, Elena**, **2005b:74008**
Gatski, T. B. *see* **Jongen, T.**, **2005k:76010**
Giorgi, Claudio *see* **Fabrizio, Mauro et al.**, **2005k:74016**
Han, Weimin *see* **Fernández García, José Ramón et al.**
Han, Zhi *see* **Yang, Hai Tian**
Hoarau-Mantel, Thierry-Vincent *see* **Barboteu, Mikaël et al.**, **2005i:74059**
Ieşan, D. On the theory of viscoelastic mixtures. (English summary) **2005g:74038**
Il'ichev, A. T. *see* **Brevdo, Leonid**, **2005f:74028**
Ilyasova, Nigar M. Free damped vibrations of viscoelastic materials. (English summary)
Jongen, T. (*with* Gatski, T. B.) Tensor representations and solutions of constitutive equations for viscoelastic fluids. (English summary) **2005k:76010**
Karamanou, Marianna (*with* Shaw, Simon C.; Warby, M. K.; Whiteman, J. R.) Models, algorithms and error estimation for computational viscoelasticity. (English summary) **2005g:74053**
Kirkinis, Eleftherios (*with* Tsai, Hungyu) Generalized azimuthal shear deformations in compressible isotropic elastic materials. (English summary) **2005m:74012**
Liu, Yanhong (*with* Zhu, Changjiang) Decay rates and convergence of solutions to system of one-dimensional viscoelastic model with damping. (English summary) **2005e:35156**
Lovišek, Ján *see* **Bock, Igor**, **2005k:49020**
Matei, Andaluzia Antiplane contact problems for viscoelastic materials. (English summary) **2005b:74090**
Messaoudi, Salim A. *see* **Berrimi, Said**, **2005e:35161**
Migórski, Stanisław (*with* Ochal, Anna) Hemivariational inequality for viscoelastic contact problem with slip-dependent friction. (English summary) **2005k:74064**
Naso, Maria Grazia *see* **Fabrizio, Mauro et al.**, **2005k:74016**
Neff, Patrizio A geometrically exact viscoplastic membrane-shell with viscoelastic transverse shear resistance avoiding degeneracy in the thin-shell limit. I. The viscoelastic membrane-plate. (English summary) **2005j:74036**
Nie, Su Fang (*with* Zhang, Jian Wen[2]; Wang, Dan Xia) An initial boundary value problem for nonlinear viscoelastic rods. (Chinese. English and Chinese summaries)
Ochal, Anna *see* **Migórski, Stanisław**, **2005k:74064**
Park, Jong Yeoul (*with* Park, Sun Hye) On uniform decay for the coupled Euler-Bernoulli viscoelastic system with boundary damping. (English summary) **2005k:35406**
Park, Sun Hye *see* **Park, Jong Yeoul**, **2005k:35406**
Pawłow, Irena (*with* Zajączkowski, Wojciech M.) Global existence to a three-dimensional non-linear thermoelasticity system arising in shape memory materials. (English summary) **2005h:35339**
— (*with* Zajączkowski, Wojciech M.) Unique global solvability in two-dimensional non-linear thermoelasticity. (English summary) **2005m:74024**
Pellicer I Sabadi, Marta (*with* Solà-Morales, J.) Analysis of a viscoelastic spring-mass model. (English summary) **2005f:35191**
Podgorski, T. (*with* Belmonte, Andrew) Surface folding of viscoelastic fluids: finite elasticity membrane model. (English summary) **2005h:76008**
Portillo Oquendo, Higidio *see* **Cavalcanti, Marcelo Moreira**, **2005d:35257**
Rajagopal, Kumbakonam (*with* Srinivasa, A. R.) On the thermomechanics of materials that have multiple natural configurations. II. Twinning and solid to solid phase transformation. (English summary) **2005f:74006**
Ruan, Li Zhi (*with* Zhu, Changjiang) Existence of global smooth solution to initial boundary value problem for a viscoelastic model with relaxation. (English summary) **2005a:35183**
Saccomandi, Giuseppe *see* **Destrade, Michel**, **2005b:74058**
Scarella, Gilles *see* **Cocou, Marius**, **2005c:74059**
Shaw, Simon C. *see* **Karamanou, Marianna et al.**, **2005g:74053**
Shillor, Meir (*with* Sofonea, Mircea; Telega, J. Joachim) Quasistatic viscoelastic contact with friction and wear diffusion. (English summary) **2005b:74093**
Slepyan, Leonid (*with* Ayzenberg-Stepanenko, M. V.) Localized transition waves in bistable-bond lattices. (English summary) **2005a:74077**
Sofonea, Mircea *see* **Shillor, Meir et al.**, **2005b:74093**; **Barboteu, Mikaël et al.**, **2005i:74059** *and* **Fernández García, José Ramón et al.**
Solà-Morales, J. *see* **Pellicer I Sabadi, Marta**, **2005f:35191**
Srinivasa, A. R. *see* **Rajagopal, Kumbakonam**, **2005f:74006**
Telega, J. Joachim *see* **Shillor, Meir et al.**, **2005b:74093**
Tsai, Hungyu *see* **Kirkinis, Eleftherios**, **2005m:74012**
Vorotnikov, D. A. On the existence of weak stationary solutions of a boundary value problem in the Jeffreys model of the motion of a viscoelastic medium. (Russian) **2005k:35342**
Wang, Dan Xia *see* **Nie, Su Fang et al.**
Warby, M. K. *see* **Karamanou, Marianna et al.**, **2005g:74053**
Wensch, Jörg Krylov-ROW methods for DAEs of index 1 with applications to viscoelasticity. (English summary) **2005k:65161**
Whiteman, J. R. *see* **Karamanou, Marianna et al.**, **2005g:74053**
Yang, Hai Tian (*with* Han, Zhi) Solving non-linear viscoelastic problems via a self-adaptive precise algorithm in time domain. (English summary)
Zajączkowski, Wojciech M. *see* **Pawłow, Irena**, **2005h:35339** *and* **2005m:74024**
Zhang, Jian Wen[2] *see* **Nie, Su Fang et al.**
Zhu, Changjiang *see* **Ruan, Li Zhi**, **2005a:35183** *and* **Liu, Yanhong**, **2005e:35156**

74D99 None of the above, but in this section

Manzhirov, A. V. (*with* Mikhin, M. N.) Methods of the theory of functions of a complex variable in the mechanics of growing bodies. (Russian. English and Russian summaries)
Mikhin, M. N. *see* **Manzhirov, A. V.**

Items with secondary classifications in 74D99

Belmonte, Andrew *see* **Smolka, Linda B. et al.**, **2005m:76014**
Chanda, T. *see* **Svendsen, Bob**, **2005k:74003**
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Henderson, Diane M. *see* **Smolka, Linda B. et al.**, **2005m:76014**
Rajagopal, Kumbakonam (*with* Srinivasa, A. R.) On the thermomechanics of materials that have multiple natural configurations. I. Viscoelasticity and classical plasticity. (English summary) **2005c:74004**
Salvatori, Maria Cesarina (*with* Sanchini, Giampaolo) Finite amplitude transverse waves in materials with memory. (English summary) **2005i:74042**
Sanchini, Giampaolo *see* **Salvatori, Maria Cesarina**, **2005i:74042**
Simion, Nicolae Various aspects and interpretations of the second law of thermodynamics. (English summary) **2005d:80003**
Smolka, Linda B. (*with* Belmonte, Andrew; Henderson, Diane M.; Witelski, Thomas P.) Exact solution for the extensional flow of a viscoelastic filament. (English summary) **2005m:76014**
Srinivasa, A. R. *see* **Rajagopal, Kumbakonam**, **2005c:74004**
Stramigioli, Stefano (*with* Duindam, Vincent) Port based modeling of spatial visco-elastic contacts. (English summary) **2005k:70005**
Svendsen, Bob (*with* Chanda, T.) Continuum thermodynamic formulation of models for electromagnetic thermoinelastic solids with application in electromagnetic metal forming. (English summary) **2005k:74003**
Witelski, Thomas P. *see* **Smolka, Linda B. et al.**, **2005m:76014**

74Exx Material properties given special treatment

74E05 Inhomogeneity

Bucataru, Ioan *see* **Epstein, Marcelo**, **2005d:74009**
Epstein, Marcelo (*with* Bucataru, Ioan) Continuous distributions of dislocations in bodies with microstructure. (English summary) **2005d:74009**
Gao, Yang[4] *see* **Zhao, Yingtao et al.**, **2005f:74023**
Wang, Minzhong *see* **Zhao, Yingtao et al.**, **2005f:74023**
Zhao, Yingtao (*with* Gao, Yang[4]; Wang, Minzhong) The ellipsoidal inhomogeneity with imperfect interface. (English and Chinese summaries) **2005f:74023**

Items with secondary classifications in 74E05

Alshits, V. I. (*with* Maugin, Gérard A.) Dynamics of multilayers: elastic waves in an anisotropic graded or stratified plate. (English summary) **2005i:74043**
Borrelli, Alessandra (*with* Horgan, Cornelius O.; Patria, M. Cristina) Exponential decay of end effects in anti-plane shear for functionally graded piezoelectric materials. (English summary) **2005k:74032**
Chen, Wen[4] *see* **Fish, Jacob**
Cowin, S. C. *see* **Fraldi, M.**, **2005g:74046**
Deschamps, Marc *see* **Shuvalov, A. L. et al.**, **2005b:74061**
Duan, H. L. (*with* Wang, Jianxiang; Huang, Zhu Ping; Zhong, Y.) Stress fields of a spheroidal inhomogeneity with an interphase in an infinite medium under remote loadings. (English summary) **2005k:74001**
Elżanowski, Marek *see* **Epstein, Marcelo**, **2005b:74014**
England, A. H. Complex variable solutions for an inhomogeneous thick plate containing a hole or a crack. (English summary) **2005g:74075**
Epstein, Marcelo (*with* Elżanowski, Marek) A model of the evolution of a two-dimensional defective structure. (English summary) **2005b:74014**
Fish, Jacob (*with* Chen, Wen[4]) Space-time multiscale model for wave propagation in heterogeneous media. (English summary)
Fraldi, M. (*with* Cowin, S. C.) Inhomogeneous elastostatic problem solutions constructed from stress-associated homogeneous solutions. (English summary) **2005g:74046**
Gao, Huajian *see* **Michelitsch, Thomas M. et al.**, **2005h:74030**
Horgan, Cornelius O. *see* **Borrelli, Alessandra et al.**, **2005k:74032**
Huang, Zhu Ping *see* **Duan, H. L. et al.**, **2005k:74001**
Ivanov, Sergei A. (*with* Man, Chi-Sing; Nakamura, Gen[1]) Recovery of residual stress in a vertically heterogeneous elastic medium. (English summary) **2005j:74023**
Khomasuridze, N. Effective solution of a class of boundary value problems of thermoelasticity in generalized cylindrical coordinates. (English summary) **2005e:74014**
de León, Manuel *see* **Marín, David**, **2005i:53024**
Leseduarte, M. C. (*with* Quintanilla, R.) Saint-Venant decay rates for a non-homogeneous isotropic mixture of elastic solids in anti-plane shear. (English summary) **2005j:74019**
Levin, V. M. *see* **Michelitsch, Thomas M. et al.**, **2005h:74030**
Man, Chi-Sing *see* **Ivanov, Sergei A. et al.**, **2005j:74023**

Marín, David (*with* de León, Manuel) Classification of material G-structures. (English summary) **2005i:53024**
Maugin, Gérard A. *see* **Alshits, V. I., 2005i:74043**
Michelitsch, Thomas M. (*with* Wang, Jizeng; Gao, Huajian; Levin, V. M.) On the retarded potentials of inhomogeneous ellipsoids and sources of arbitrary shapes in the three-dimensional infinite space. (English summary) **2005h:74030**
Nakamura, Gen[1] (*with* Uhlmann, Gunther; Wang, Jenn-Nan) Reconstruction of cracks in an inhomogeneous anisotropic elastic medium. (English and French summaries) **2005b:35299**
— *see also* **Ivanov, Sergei A. et al., 2005j:74023**
Patria, M. Cristina *see* **Borrelli, Alessandra et al., 2005k:74032**
Payton, Robert G. *see* **Watanabe, Kazumi**
Poncelet, O. *see* **Shuvalov, A. L. et al., 2005b:74061**
Quintanilla, R. *see* **Leseduarte, M. C., 2005j:74019**
Shuvalov, A. L. (*with* Poncelet, O.; Deschamps, Marc) General formalism for plane guided waves in transversely inhomogeneous anisotropic plates. (English summary) **2005b:74061**
Stampouloglou, I. H. *see* **Theotokoglou, E. E.**
Theotokoglou, E. E. (*with* Stampouloglou, I. H.) The plane wedge problem loaded at its apex—the self-similarity property and the characteristic vector. (English summary)
Uhlmann, Gunther *see* **Nakamura, Gen[1] et al., 2005b:35299**
Wang, Jenn-Nan *see* **Nakamura, Gen[1] et al., 2005b:35299**
Wang, Jianxiang *see* **Duan, H. L. et al., 2005k:74001**
Wang, Jizeng *see* **Michelitsch, Thomas M. et al., 2005h:74030**
Watanabe, Kazumi (*with* Payton, Robert G.) Green's function and its non-wave nature for SH-wave in inhomogeneous elastic solid. (English summary)
Zhong, Y. *see* **Duan, H. L. et al., 2005k:74001**

74E10 Anisotropy

He, Qi-Chang Characterization of the anisotropic materials capable of exhibiting an isotropic Young or shear or area modulus. (English summary)
Kowalczyk-Gajewska, K. (*with* Ostrowska-Maciejewska, J.) The influence of internal restrictions on the elastic properties of anisotropic materials. (English summary) **2005c:74015**
Ostrowska-Maciejewska, J. *see* **Kowalczyk-Gajewska, K., 2005c:74015**
Ting, T. C. T. Generalized Cowin-Mehrabadi theorems and a direct proof that the number of linear elastic symmetries is eight. (English summary) **2005a:74029**
— The polarization vectors at the interface and the secular equation for Stoneley waves in monoclinic bimaterials. (English summary) **2005i:74018**
Yin, Wan-Lee Degeneracy, derivative rule, and Green's functions of anisotropic elasticity. (English summary) **2005g:74028**
— A unified formalism of two-dimensional anisotropic elasticity, piezoelectricity and unsymmetric laminated plates. (English summary) **2005m:74021**

Items with secondary classifications in 74E10

Adams, B. L. *see* **Lyon, M., 2005f:74069**
Agalovyan, L. A. (*with* Asratyan, M. G.; Gevorkyan, R. S.) On a nonclassical mixed boundary value problem in the theory of elasticity for an anisotropic strip of variable width. (Russian. Russian and Armenian summaries) **2005m:74033**
Akinola, A. P. On complex potentials for finite plane deformation of a transversely isotropic material. (English summary) **2005g:74016**
Akmaz, Hakan K. *see* **Yakhno, V. G., 2005g:74057**
Aksel, Nuri *see* **Itskov, Mikhail, 2005a:74020**
Alshits, V. I. (*with* Lothe, J.) Some basic properties of bulk elastic waves in anisotropic media. (English summary) **2005c:74044**
— (*with* Maugin, Gérard A.) Dynamics of multilayers: elastic waves in an anisotropic graded or stratified plate. (English summary) **2005i:74043**
Apel, Nikolas *see* **Miehe, Christian, 2005f:74053**
Asratyan, M. G. *see* **Agalovyan, L. A. et al., 2005m:74033**
Auricchio, Ferdinando (*with* Lovadina, Carlo; Madureira, Alexandre L.) An asymptotically optimal model for isotropic heterogeneous linearly elastic plates. (English summary) **2005i:74051**
Balzani, D. *see* **Schröder, Jörg[2] et al., 2005k:74013**
Bin Nawi, Abu Hanipah *see* **Watanabe, Kazumi**
Bitsadze, L. The basic boundary value problems of statics of the theory of elastic transversally isotropic mixtures for an infinite plane with an elliptic hole. (English and Georgian summaries) **2005e:74019**
Bogan, Yu. A. Regular integral equations for the second boundary value problem of the bending of an anisotropic elastic plate. (Russian. Russian summary)
Bóna, Andrej (*with* Bucataru, Ioan; Slawinski, Michael A.) Characterization of elasticity-tensor symmetries using SU(2). (English summary) **2005k:74006**
— (*with* Bucataru, Ioan; Slawinski, Michael A.) Material symmetries of elasticity tensors. (English summary) **2005g:74013**
Borrelli, Alessandra (*with* Horgan, Cornelius O.; Patria, M. Cristina) Exponential decay of end effects in anti-plane shear for functionally graded piezoelectric materials. (English summary) **2005k:74032**
deBotton, G. Transversely isotropic sequentially laminated composites in finite elasticity. (English summary) **2005k:74019**
Bucataru, Ioan (*with* Slawinski, Michael A.) Generalized orthogonality between rays and wavefronts in anisotropic inhomogeneous media. (English summary) **2005j:74033**
— *see also* **Bóna, Andrej et al., 2005g:74013** *and* **2005k:74006**
Buchukuri, Tengiz (*with* Chkadua, Otar; Duduchava, Roland) Crack-type boundary value problems of electro-elasticity. (English summary) **2005e:74021**
Cai, Hongxue *see* **Chadwick, Richard S. et al., 2005a:74014**
Chadwick, Richard S. (*with* Shoelson, Brett; Cai, Hongxue) Surface Green's functions for an incompressible, transversely isotropic elastic half-space. (English summary) **2005a:74014**
Cheng, Jin[1] *see* **Lü, Nian Chun et al.**
Chkadua, Otar *see* **Buchukuri, Tengiz et al., 2005e:74021**
Cleja-Tigoiu, Sanda Dissipative nature of plastic deformations in finite anisotropic elasto-plasticity. (English summary) **2005b:74026**
Coon, Ethan T. (*with* Polignone Warne, Debra; Warne, Paul G.) Asymptotic analysis of finite deformation in a nonlinear transversely isotropic incompressible hyperelastic half-space subjected to a tensile point load. (English summary) **2005k:74011**
Cowin, S. C. *see* **Fraldi, M., 2005g:74046**
Danoyan, Z. N. On a plane problem of the propagation of magnetoelastic waves in an anisotropic perfectly conducting medium from a point source. (Russian. Russian and Armenian summaries)
— Propagation of plane magnetoelastic waves in anisotropic perfectly conducting media. (Russian. Russian and Armenian summaries)
Daros, C. H. The elastic wave front shape generated by a circular source in a piezoelectric medium of crystal class 6mm. (English summary) **2005c:74041**
Deschamps, Marc *see* **Shuvalov, A. L. et al., 2005b:74061**
Destrade, Michel On interface waves in misoriented pre-stressed incompressible elastic solids. (English summary)
Duduchava, Roland *see* **Buchukuri, Tengiz et al., 2005e:74021**
Fabrikant, V. I. Tangential contact problem for a transversely isotropic elastic layer bonded to a rigid foundation. (English summary) **2005j:74043**
Federico, Salvatore (*with* Grillo, Alfio; Herzog, Walter) A transversely isotropic composite with a statistical distribution of spheroidal inclusions: a geometrical approach to overall properties. (English summary) **2005d:74010**
Feng, Zhi-Qiang *see* **Hjiaj, Mohammed et al., 2005f:74058**
Fraldi, M. (*with* Cowin, S. C.) Inhomogeneous elastostatic problem solutions constructed from stress-associated homogeneous solutions. (English summary) **2005g:74046**
Gachechiladze, Roland Interior and exterior problems of couple-stress and classical elastostatics with given friction. (English summary) **2005k:74035**
Gevorkyan, R. S. *see* **Agalovyan, L. A. et al., 2005m:74033**
Gogolauri, L. On one mixed type contact problem for an elastic anisotropic half-plane. (English and Georgian summaries) **2005f:74060**
Grillo, Alfio *see* **Federico, Salvatore et al., 2005d:74010**
Herzog, Walter *see* **Federico, Salvatore et al., 2005d:74010**
Hjiaj, Mohammed (*with* Feng, Zhi-Qiang; de Saxcé, Géry; Mróz, Z.) On the modelling of complex anisotropic frictional contact laws. (English summary) **2005f:74058**
Horgan, Cornelius O. *see* **Borrelli, Alessandra et al., 2005k:74032**
Hu, Yuan Tai (*with* Yang, Jia Shi; Jiang, Qing) Surface waves in electrostrictive materials under biasing fields. (English summary) **2005g:74066**
Huang, Mojia (*with* Man, Chi-Sing) Constitutive relation of elastic polycrystal with quadratic texture dependence. (English summary) **2005b:74030**
Ing, Yi-Shyong (*with* Ma, Chien-Ching) Exact transient full-field analysis of a finite crack subjected to dynamic anti-plane concentrated loadings in anisotropic materials. (English summary)
Iovane, Gerardo (*with* Nasedkin, A. V.; Passarella, Francesca) Fundamental solutions in antiplane elastodynamic problem for anisotropic medium under moving oscillating source. (English summary) **2005g:74063**
Itskov, Mikhail (*with* Aksel, Nuri) A class of orthotropic and transversely isotropic hyperelastic constitutive models based on a polyconvex strain energy function. (English summary) **2005a:74020**
Jiang, Qing *see* **Hu, Yuan Tai et al., 2005g:74066**
Kuznetsov, Sergeĭ Vladimirovich[2] Love waves in stratified monoclinic media. (English summary) **2005g:74067**
Leslie, D. J. (*with* Scott, N. H.) Wave stability for constrained materials in anisotropic generalized thermoelasticity. (English summary) **2005g:74040**
Li, Xian Fang Two perfectly-bonded dissimilar orthotropic strips with an interfacial crack normal to the boundaries. (English summary)
— Erratum to: "Two perfectly-bonded dissimilar orthotropic strips with an interfacial crack normal to the boundaries" [Appl. Math. Comput. **163** (2005), no. 2, 961–975; MR2121840]. (English summary)
Lothe, J. *see* **Alshits, V. I., 2005c:74044**
Lovadina, Carlo *see* **Auricchio, Ferdinando et al., 2005i:74051**
Lu, Jia (*with* Papadopoulos, Panayiotis) A covariant formulation of anisotropic finite plasticity: theoretical developments. (English summary) **2005f:74019**
Lü, Nian Chun (*with* Xu, Hong Min; Cheng, Jin[1]) Deduction of self-similar solutions in other form to elastodynamics equations for an orthotropic anisotropic body. (Chinese. English and Chinese summaries)
Lyon, M. (*with* Adams, B. L.) Gradient-based non-linear microstructure design. (English summary) **2005f:74069**
Ma, Chien-Ching *see* **Ing, Yi-Shyong**
Madureira, Alexandre L. *see* **Auricchio, Ferdinando et al., 2005i:74051**
Man, Chi-Sing *see* **Huang, Mojia, 2005b:74030** *and* **Tanuma, Kazumi, 2005e:74028**
Martin, Paul Andrew Waves in wood: axisymmetric waves in slender solids of revolution. (English summary) **2005b:74059**
Maugin, Gérard A. *see* **Alshits, V. I., 2005i:74043**
Miehe, Christian (*with* Apel, Nikolas) Anisotropic elastic-plastic analysis of shells at large strains. A comparison of multiplicative and additive approaches to enhanced finite element design and constitutive modelling. (English summary) **2005f:74053**
Mikhas'kiv, V. V. Transient response of a plane rigid inclusion to an incident wave in an elastic solid. (English summary) **2005f:74049**
Mróz, Z. *see* **Hjiaj, Mohammed et al., 2005f:74058**
Nakamura, Gen[1] (*with* Uhlmann, Gunther; Wang, Jenn-Nan) Reconstruction of cracks in an inhomogeneous anisotropic elastic medium. (English and French summaries) **2005b:35299**
— (*with* Uhlmann, Gunther; Wang, Jenn-Nan) Oscillating-decaying solutions, Runge approximation property for the anisotropic elasticity system and their applications to inverse problems. (English and French summaries) **2005i:35289**
Nasedkin, A. V. *see* **Iovane, Gerardo et al., 2005g:74063**
Neff, Patrizio *see* **Schröder, Jörg[2] et al., 2005k:74013**
Nicotra, V. (*with* Tiero, A.) Exact solutions for linearly electroelastic plate-like bodies. (English summary) **2005g:74047**
Norris, Andrew N. Acoustic axes in elasticity. (English summary) **2005c:74045**

Ogden, Ray W. *see* **Vinh, Pham Chi, 2005b:74062**
Ostrosablin, N. I. Purely transverse waves in elastic anisotropic media. (Russian. Russian summary) **2005j:74028**
Papadopoulos, Panayiotis *see* **Lu, Jia, 2005f:74019**
Passarella, Francesca *see* **Iovane, Gerardo et al., 2005g:74063**
Patria, M. Cristina *see* **Borrelli, Alessandra et al., 2005k:74032**
Payton, Robert G. Anti-plane wave motion in a cylindrically orthotropic elastic solid containing a stress-free crack. (English summary) **2005b:74060**
— (*with* Watanabe, Kazumi) Wave front shape for a constrained cylindrically anisotropic elastic solid. (English summary) **2005h:74031**
Polignone Warne, Debra *see* **Coon, Ethan T. et al., 2005k:74011**
Poncelet, O. *see* **Shuvalov, A. L. et al., 2005b:74061**
Prikazchikov, Danila A. (*with* Rogerson, Graham A.) On surface wave propagation in incompressible, transversely isotropic, pre-stressed elastic half-spaces. (English summary) **2005a:74049**
Protsyuk, B. V. Application of the method of Green functions to the determination of the thermoelastic state of layered transversally isotropic spherical bodies. (Ukrainian. English, Russian and Ukrainian summaries)
Rand, Omri (*with* Rovenskiĭ, Vladimir) ★ Analytical methods in anisotropic elasticity. **2005f:74032**
Rogerson, Graham A. *see* **Prikazchikov, Danila A., 2005a:74049**
Rovenskiĭ, Vladimir *see* **Rand, Omri, 2005f:74032**
de Saxcé, Géry *see* **Hjiaj, Mohammed et al., 2005f:74058**
Schröder, Jörg[2] (*with* Neff, Patrizio; Balzani, D.) A variational approach for materially stable anisotropic hyperelasticity. (English summary) **2005k:74013**
Scott, N. H. *see* **Leslie, D. J., 2005g:74040**
Shoelson, Brett *see* **Chadwick, Richard S. et al., 2005a:74014**
Shuvalov, A. L. (*with* Poncelet, O.; Deschamps, Marc) General formalism for plane guided waves in transversely inhomogeneous anisotropic plates. (English summary) **2005b:74061**
Simmonds, J. G. Exact Lévy-type solutions for plate bending exist for transversely isotropic but not for general monoclinic materials. (English summary) **2005g:74079**
Slawinski, Michael A. *see* **Bóna, Andrej et al., 2005g:74013**; **2005k:74006** *and* **Bucataru, Ioan, 2005j:74033**
Stampouloglou, I. H. *see* **Theotokoglou, E. E.**
Tanuma, Kazumi (*with* Man, Chi-Sing) Angular dependence of Rayleigh-wave velocity in prestressed polycrystalline media with monoclinic texture. (English summary) **2005e:74028**
Tewary, V. K. Green's-function method for modeling surface acoustic wave dispersion in anisotropic material systems and determination of material parameters. (English summary)
Theotokoglou, E. E. (*with* Stampouloglou, I. H.) The plane wedge problem loaded at its apex—the self-similarity property and the characteristic vector. (English summary)
Tiero, A. *see* **Nicotra, V., 2005g:74047**
Ting, T. C. T. Surface waves in a rotating anisotropic elastic half-space. (English summary) **2005b:74067**
— Green's functions for a bimaterial consisting of two orthotropic quarter planes subjected to an antiplane force and a screw dislocation. (English summary) **2005j:74004**
Uhlmann, Gunther *see* **Nakamura, Gen[1] et al., 2005b:35299** *and* **2005i:35289**
Vinh, Pham Chi (*with* Ogden, Ray W.) Formulas for the Rayleigh wave speed in orthotropic elastic solids. (English summary) **2005b:74062**
Wang, Jenn-Nan *see* **Nakamura, Gen[1] et al., 2005b:35299** *and* **2005i:35289**
Warne, Paul G. *see* **Coon, Ethan T. et al., 2005k:74011**
Watanabe, Kazumi (*with* Bin Nawi, Abu Hanipah) Exact closed form solution for an anti-plane deformation of anisotropic media. (English summary)
— *see also* **Payton, Robert G., 2005h:74031**
Wu, Kuang-Chong Diffraction of a plane stress wave by a semi-infinite crack in a general anisotropic elastic material. (English summary) **2005b:74068**
Xu, Hong Min *see* **Lü, Nian Chun et al.**
Yakhno, V. G. (*with* Akmaz, Hakan K.) Initial value problem for the dynamic system of anisotropic elasticity. (English summary) **2005g:74057**
Yang, Jia Shi *see* **Hu, Yuan Tai et al., 2005g:74066**

74E15 Crystalline structure

Acharya, Amit *see* **Miller, Ronald E., 2005a:74031**
Armano, Tiziana (*with* Cermelli, Paolo) Noncrystallographic motion of a dislocation as a fine mixture of rectilinear paths. (English summary) **2005j:74011**
Böhlke, T. The Voigt bound of the stress potential of isotropic viscoplastic FCC polycrystals. (English summary)
Cermelli, Paolo *see* **Armano, Tiziana, 2005j:74011**
Chen, W. Q. (*with* Ma, Yinliang; Ding, H. J.) On three-dimensional elastic problems of one-dimensional hexagonal quasicrystal bodies. (English summary)
Ding, H. J. *see* **Chen, W. Q. et al.**
Ericksen, J. L. On the theory of rotation twins in crystal multilattices. (English summary) **2005e:74007**
Ford, Judith M. (*with* Ford, Neville J.; Wheeler, John) Simulation of grain-boundary diffusion creep: analysis of some new numerical techniques. (English summary) **2005b:74029**
Ford, Neville J. *see* **Ford, Judith M. et al., 2005b:74029**
Gurtin, Morton E. (*with* Needleman, Alan) Boundary conditions in small-deformation, single-crystal plasticity that account for the Burgers vector. (English summary) **2005i:74019**
Huang, Mojia (*with* Man, Chi-Sing) Constitutive relation of elastic polycrystal with quadratic texture dependence. (English summary) **2005b:74030**
— Perturbation approach to elastic constitutive relations of polycrystals. (English summary) **2005b:74031**
— The *n*-point orientation correlation function and its application. (English summary) **2005h:74018**
Kratochvíl, Jan (*with* Málek, Josef; Rajagopal, Kumbakonam; Srinivasa, A. R.) Modeling of the response of elastic plastic materials treated as a mixture of hard and soft regions. (English summary) **2005a:74030**
Kresse, O. (*with* Truskinovsky, Lev) Lattice friction for crystalline defects: from dislocations to cracks. (English summary) **2005e:74008**
Ma, Yinliang *see* **Chen, W. Q. et al.**
Málek, Josef *see* **Kratochvíl, Jan et al., 2005a:74030**
Man, Chi-Sing *see* **Huang, Mojia, 2005b:74030**
Meister, L. (*with* Schaeben, Helmut) A concise quaternion geometry of rotations. (English summary) **2005g:74029**
Miller, Ronald E. (*with* Acharya, Amit) A stress-gradient based criterion for dislocation nucleation in crystals. (English summary) **2005a:74031**
Needleman, Alan *see* **Gurtin, Morton E., 2005i:74019**
Ortiz, Michael *see* **Sivakumar, Srinivasan M., 2005g:74030**
Parry, G. P. On essential and non-essential descriptions of multilattices. (English summary) **2005e:74009**
Rajagopal, Kumbakonam *see* **Kratochvíl, Jan et al., 2005a:74030**
Schaeben, Helmut *see* **Meister, L., 2005g:74029**
Sivakumar, Srinivasan M. (*with* Ortiz, Michael) Microstructure evolution in the equal channel angular extrusion process. (English summary) **2005g:74030**
Srinivasa, A. R. *see* **Kratochvíl, Jan et al., 2005a:74030**
Truskinovsky, Lev *see* **Kresse, O., 2005e:74008**
Wheeler, John *see* **Ford, Judith M. et al., 2005b:74029**

Items with secondary classifications in 74E15

Adams, B. L. *see* **Lyon, M., 2005f:74069**
Ahluwalia, Rajeev *see* **Albers, R. C. et al., 2005m:74075**
Aifantis, K. E. (*with* Willis, John R.) The role of interfaces in enhancing the yield strength of composites and polycrystals. (English summary) **2005j:74007**
Albers, R. C. (*with* Ahluwalia, Rajeev; Lookman, Turab; Saxena, Avadh) Modeling solid-solid phase transformations: from single crystal to polycrystal behavior. (English summary) **2005m:74075**
Anand, Lallit Single-crystal elasto-viscoplasticity: application to texture evolution in polycrystalline metals at large strains. (English summary) **2005g:74023**
Beneš, Michal *see* **Minárik, Vojtěch et al., (2005j:65003)**
Billardon, René *see* **Daniel, Laurent et al., 2005m:74032**
Bruno, Oscar P. *see* **Goldsztein, Guillermo H., 2005b:74096**
Capasso, Vincenzo (*with* Escobedo, Ramón; Salani, Claudia) Moving bands and moving boundaries in an hybrid model for the crystallization of polymers. (English summary) **2005a:82120**
Currò, C. *see* **Valenti, G. et al., (2005c:00016)**
Daniel, Laurent (*with* Hubert, Olivier; Billardon, René) Homogenisation of magneto-elastic behaviour: from the grain to the macro scale. (English summary) **2005m:74032**
Daros, C. H. The elastic wave front shape generated by a circular source in a piezoelectric medium of crystal class 6mm. (English summary) **2005c:74041**
Denzer, R. *see* **Menzel, A. et al., 2005g:74021**
Duda, F. P. (*with* Šilhavý, M.) Dislocation walls in crystals under single slip. (English summary) **2005i:74005**
Elżanowski, Marek (*with* Parry, G. P.) Material symmetry in a theory of continuously defective crystals. (English summary) **2005j:74001**
— *see also* **Epstein, Marcelo, 2005b:74014**
Engelbrecht, Jüri *see* **Janno, Jaan, 2005m:74052**
Epstein, Marcelo (*with* Elżanowski, Marek) A model of the evolution of a two-dimensional defective structure. (English summary) **2005b:74014**
Escobedo, Ramón *see* **Capasso, Vincenzo et al., 2005a:82120**
Ganti, S. *see* **Sharma, Pradeep, 2005m:74005**
Gao, Huajian *see* **Han, Chung-Souk et al.**
Goldsztein, Guillermo H. (*with* Bruno, Oscar P.) A fast algorithm for the simulation of polycrystalline misfits. II. Martensitic transformations in three space dimensions. (English summary) **2005b:74096**
Han, Chung-Souk (*with* Gao, Huajian; Huang, Yonggang; Nix, William D.) Mechanism-based strain gradient crystal plasticity. I. Theory. (English summary)
— (*with* Gao, Huajian; Huang, Yonggang; Nix, William D.) Mechanism-based strain gradient crystal plasticity. II. Analysis. (English summary)
Huang, Yonggang *see* **Han, Chung-Souk et al.**
Hubert, Olivier *see* **Daniel, Laurent et al., 2005m:74032**
Janno, Jaan (*with* Engelbrecht, Jüri) Solitary waves in nonlinear microstructured materials. (English summary) **2005m:74052**
Kratochvíl, Jan *see* **Minárik, Vojtěch et al., (2005j:65003)**
Kružík, Martin (*with* Otto, Felix) A phenomenological model for hysteresis in polycrystalline shape memory alloys. (English summary) **2005g:74095**
Kumar, Mukul *see* **Reed, Bryan W. et al., 2005g:82127**
Kunze, Karsten (*with* Schaeben, Helmut) The Bingham distribution of quaternions and its spherical Radon transform in texture analysis. (English summary) **2005k:74018**
Legoll, Frédéric Numerical homogenization of nonlinear viscoplastic two-dimensional polycrystals. (English summary) **2005m:74084**
Lookman, Turab *see* **Albers, R. C. et al., 2005m:74075**
Lyon, M. (*with* Adams, B. L.) Gradient-based non-linear microstructure design. (English summary) **2005f:74069**
Menzel, A. (*with* Denzer, R.; Steinmann, Paul) On the comparison of two approaches to compute material forces for inelastic materials. Application to single-slip crystal-plasticity. (English summary) **2005g:74021**
Mikula, Karol *see* **Minárik, Vojtěch et al., (2005j:65003)**
Minárik, Vojtěch (*with* Kratochvíl, Jan; Mikula, Karol; Beneš, Michal) Numerical simulation of dislocation dynamics. (English summary) (*see* **2005j:65003**)
Minich, Roger W. *see* **Reed, Bryan W. et al., 2005g:82127**
Mizel, Victor J. (*with* Zaslavski, Alexander J.) Anisotropic functions: a genericity result with crystallographic implications. (English summary) **2005k:49041**
Morgan, Frank Planar Wulff shape is unique equilibrium. (English summary) **2005i:49043**
Nix, William D. *see* **Han, Chung-Souk et al.**

Otto, Felix *see* **Kružík, Martin, 2005g:74095**
Parry, G. P. *see* **Elżanowski, Marek, 2005j:74001**
Pitteri, Mario On certain weak phase transformations in multilattices. (English summary) **2005j:74045**
Prince, Edward ★ Mathematical techniques in crystallography and materials science. **2005d:82129**
Reed, Bryan W. (*with* Minich, Roger W.; Rudd, Robert E.; Kumar, Mukul) The structure of the cubic coincident site lattice rotation group. (English summary) **2005g:82127**
Rudd, Robert E. *see* **Reed, Bryan W. et al., 2005g:82127**
Salani, Claudia *see* **Capasso, Vincenzo et al., 2005a:82120**
Saxena, Avadh *see* **Albers, R. C. et al., 2005m:74075**
Schaeben, Helmut *see* **Kunze, Karsten, 2005k:74018**
Sharma, Pradeep (*with* Ganti, S.) Gauge-field-theory solution of the elastic state of a screw dislocation in a dispersive (non-local) crystalline solid. (English summary) **2005m:74005**
Šilhavý, M. *see* **Duda, F. P., 2005i:74005**
Steinmann, Paul *see* **Menzel, A. et al., 2005g:74021**
Sugiyama, Masaru *see* **Valenti, G. et al., (2005c:00016)**
Thamburaja, P. Constitutive equations for martensitic reorientation and detwinning in shape-memory alloys. (English summary) **2005j:74047**
Valenti, G. (*with* Currò, C.; Sugiyama, Masaru) Wave features for a new continuum model of isotropic solids. (English summary) (*see* **2005c:00016**)
Wang, Xu Eshelby's problem of an inclusion of arbitrary shape in a decagonal quasicrystalline plane or half-plane. (English summary) **2005e:74020**
Willis, John R. *see* **Aifantis, K. E., 2005j:74007**
Zaslavski, Alexander J. *see* **Mizel, Victor J., 2005k:49041**

74E20 Granularity

Fried, Eliot (*with* Gurtin, Morton E.; Hutter, Kolumban) A void-based description of compaction and segregation in flowing granular materials. (English summary) **2005e:74010**
Gardiner, B. S. *see* **Tordesillas, A. et al., 2005g:74031**
Gurtin, Morton E. *see* **Fried, Eliot et al., 2005e:74010**
Hill, James M. *see* **McCue, Scott W. et al., 2005i:74020**
Hutter, Kolumban *see* **Wang, Yongqi et al., 2005b:74032** *and* **Fried, Eliot et al., 2005e:74010**
Johnpillai, I. Kenneth *see* **McCue, Scott W. et al., 2005i:74020**
McCue, Scott W. (*with* Johnpillai, I. Kenneth; Hill, James M.) New stress and velocity fields for highly frictional granular materials. (English summary) **2005i:74020**
Pudasaini, S. P. *see* **Wang, Yongqi et al., 2005b:74032**
Tordesillas, A. (*with* Walsh, S. D. C.; Gardiner, B. S.) Bridging the length scales: micromechanics of granular media. (English summary) **2005g:74031**
Walsh, S. D. C. *see* **Tordesillas, A. et al., 2005g:74031**
Wang, Yongqi (*with* Hutter, Kolumban; Pudasaini, S. P.) The Savage-Hutter theory: a system of partial differential equations for avalanche flows of snow, debris, and mud. (English summary) **2005b:74032**

Items with secondary classifications in 74E20

Ahmed, S. A. (*with* Buckingham, Robert; Gremaud, Pierre A.; Hauck, C. D.; Kuster, C. M.; Prodanovic, M.; Royal, T. A.; Silantiev, Valentin M.) Volume determination for bulk materials in bunkers. (English summary)
Alart, Pierre *see* **Renouf, Mathieu, 2005m:74073**
Bigoni, Davide *see* **Gajo, A. et al., 2005f:74021**
Buckingham, Robert *see* **Ahmed, S. A. et al.**
Cannarsa, Piermarco (*with* Cardaliaguet, Pierre) Representation of equilibrium solutions to the table problem for growing sandpiles. (English summary) **2005k:35154**
Cardaliaguet, Pierre *see* **Cannarsa, Piermarco, 2005k:35154**
Fang, Chung *see* **Luca, I. et al., 2005a:76159**
Fortin, Jérôme (*with* Millet, O.; de Saxcé, Géry) Numerical simulation of granular materials by an improved discrete element method. (English summary) **2005i:76113**
Gajo, A. (*with* Bigoni, Davide; Muir Wood, D.) Multiple shear band development and related instabilities in granular materials. (English summary) **2005f:74021**
Gremaud, Pierre A. (*with* Matthews, John V.) On the computation of steady hopper flows. (English summary)
— (*with* Matthews, John V.; O'Malley, Meghan) On the computation of steady hopper flows. II. Von Mises materials in various geometries. (English summary)
— *see also* **Ahmed, S. A. et al.**
Hauck, C. D. *see* **Ahmed, S. A. et al.**
Hill, James M. *see* **Thamwattana, Ngamta, 2005c:74011** *and* **2005i:76114**
Hutter, Kolumban *see* **Luca, I. et al., 2005a:76159**
Ieşan, D. On the nonlinear theory of interacting micromorphic materials. (English summary) **2005f:74007**
Kerswell, R. R. Dam break with Coulomb friction: a model for granular slumping? (English summary) **2005m:76182**
Kuster, C. M. *see* **Ahmed, S. A. et al.**
Luca, I. (*with* Fang, Chung; Hutter, Kolumban) A thermodynamic model of turbulent motions in a granular material. (English summary) **2005a:76159**
Matthews, John V. *see* **Gremaud, Pierre A. et al.**
Millet, O. *see* **Fortin, Jérôme et al., 2005i:76113**
Muir Wood, D. *see* **Gajo, A. et al., 2005f:74021**
O'Malley, Meghan *see* **Gremaud, Pierre A. et al.**
Prodanovic, M. *see* **Ahmed, S. A. et al.**
Renouf, Mathieu (*with* Alart, Pierre) Conjugate gradient type algorithms for frictional multi-contact problems: applications to granular materials. (English summary) **2005m:74073**
Royal, T. A. *see* **Ahmed, S. A. et al.**
Sadovskaya, O. V. The method of through calculation for studying elastoplastic waves in a granular medium. (Russian. Russian summary) **2005j:74032**
de Saxcé, Géry *see* **Fortin, Jérôme et al., 2005i:76113**
Silantiev, Valentin M. *see* **Ahmed, S. A. et al.**
Thamwattana, Ngamta (*with* Hill, James M.) Stress distributions within curved highly frictional granular stockpiles. (English summary) **2005c:74011**
— (*with* Hill, James M.) Perturbation solutions for highly frictional granular media. (English summary) **2005i:76114**
Van Siclen, Clinton D. Force structure of frictionless granular piles. (English summary) **2005g:82067**

74E25 Texture

Alart, Pierre *see* **Renouf, Mathieu et al.**
Dubois, Frédéric *see* **Renouf, Mathieu et al.**
Kunze, Karsten (*with* Schaeben, Helmut) The Bingham distribution of quaternions and its spherical Radon transform in texture analysis. (English summary) **2005k:74018**
Renouf, Mathieu (*with* Dubois, Frédéric; Alart, Pierre) A parallel version of the non smooth contact dynamics algorithm applied to the simulation of granular media. (English summary)
Schaeben, Helmut *see* **Kunze, Karsten, 2005k:74018**

Items with secondary classifications in 74E25

Elżanowski, Marek (*with* Parry, G. P.) Material symmetry in a theory of continuously defective crystals. (English summary) **2005j:74001**
Huang, Mojia (*with* Man, Chi-Sing) Constitutive relation of elastic polycrystal with quadratic texture dependence. (English summary) **2005b:74030**
Man, Chi-Sing *see* **Huang, Mojia, 2005b:74030** *and* **Tanuma, Kazumi, 2005e:74028**
Parry, G. P. *see* **Elżanowski, Marek, 2005j:74001**
Tanuma, Kazumi (*with* Man, Chi-Sing) Angular dependence of Rayleigh-wave velocity in prestressed polycrystalline media with monoclinic texture. (English summary) **2005e:74028**

74E30 Composite and mixture properties

Berlyand, Leonid (*with* Golovaty, Dmitry; Movchan, Alexander; Phillips, Jonathan) Transport properties of densely packed composites. Effect of shapes and spacings of inclusions. (English summary) **2005g:74032**
deBotton, G. Transversely isotropic sequentially laminated composites in finite elasticity. (English summary) **2005k:74019**
Canet, J. Miquel *see* **Zalamea, F. et al., 2005d:74011**
Craciun, Eduard-Marius *see* **Cristescu, Nicolae Dan et al., 2005k:74020**
Cristescu, Nicolae Dan (*with* Craciun, Eduard-Marius; Soós, Eugen) ★ Mechanics of elastic composites. **2005k:74020**
Federico, Salvatore (*with* Grillo, Alfio; Herzog, Walter) A transversely isotropic composite with a statistical distribution of spheroidal inclusions: a geometrical approach to overall properties. (English summary) **2005d:74010**
Golovaty, Dmitry *see* **Berlyand, Leonid et al., 2005g:74032**
Grabovsky, Yury (*with* Hijab, Omar) A generalization of the Chandler Davis convexity theorem. (English summary) **2005g:74033**
Grillo, Alfio *see* **Federico, Salvatore et al., 2005d:74010**
Herzog, Walter *see* **Federico, Salvatore et al., 2005d:74010**
Hijab, Omar *see* **Grabovsky, Yury, 2005g:74033**
Ladevèze, Pierre Multiscale modelling and computational strategies for composites. (English summary)
Lenci, Stefano Elastic and damage longitudinal shear behavior of highly concentrated long fiber composites. (English summary) **2005g:74034**
Michel, Jean-Claude (*with* Suquet, P.) Computational analysis of nonlinear composite structures using the nonuniform transformation field analysis. (English summary) **2005f:74024**
Mishuris, G. Imperfect transmission conditions for a thin weakly compressible interface. 2D problems. (English summary) **2005b:74033**
Movchan, Alexander *see* **Berlyand, Leonid et al., 2005g:74032**
Oller, S. *see* **Zalamea, F. et al., 2005d:74011**
Pham Duc Chinh Effective medium approximations for conductivity of quasisymmetric completely-random inhomogeneous media. (English summary) **2005g:74035**
Phillips, Jonathan *see* **Berlyand, Leonid et al., 2005g:74032**
Soós, Eugen *see* **Cristescu, Nicolae Dan et al., 2005k:74020**
Suquet, P. *see* **Michel, Jean-Claude, 2005f:74024**
Zalamea, F. (*with* Canet, J. Miquel; Oller, S.) ★ Tratamiento numérico de materiales compuestos mediante la teoría de homogeneización. (Spanish) [Numerical treatment of composite materials by the homogenization method] **2005d:74011**

Items with secondary classifications in 74E30

Aifantis, K. E. (*with* Willis, John R.) The role of interfaces in enhancing the yield strength of composites and polycrystals. (English summary) **2005j:74007**
Atkinson, Colin *see* **Chen, Ching-Yu, 2005i:74070**
Avalishvili, G. *see* **Gordeziani, David, 2005k:74055**
Basheleishvili, M. Explicit solutions of the basic boundary value problems of statics of the elastic mixture theory for an annulus. (English summary) **2005a:74035**
Benveniste, Y. *see* **He, Qi-Chang, 2005e:74013**
Berlyand, Leonid (*with* Mityushev, V.) Increase and decrease of the effective conductivity of two phase composites due to polydispersity. (English summary) **2005k:74021**
Bitsadze, L. The basic boundary value problems of statics of the theory of elastic transversally isotropic mixtures for an infinite plane with an elliptic hole. (English and Georgian summaries) **2005e:74019**
Byström, Johan (*with* Dasht, Johan; Wall, Peter) A numerical study of the convergence in stochastic homogenization. (English summary) **2005g:74101**
Calás, H. *see* **Otero Hernández, José A. et al., 2005a:74046**
Chen, Ching-Yu (*with* Atkinson, Colin) The influence of layer thickness on the stress intensity factor of a penny-shaped crack in a sandwiched viscoelastic bimaterial. (English summary) **2005i:74070**
Chiriță, Stan *see* **D'Apice, Ciro et al., 2005j:74027**

D'Apice, Ciro (*with* Tibullo, V.; Chiriţă, Stan) On the spatial behavior in the dynamic theory of mixtures of thermoelastic solids. (English summary) **2005j:74027**
Dasht, Johan *see* **Byström, Johan et al., 2005g:74101**
Deĭneka, V. S. *see* **Sergienko, Ivan V., 2005m:74038**
Donev, Aleksandar Nikola *see* **Torquato, Salvatore, 2005b:74084**
Fish, Jacob *see* **Yu, Qing, 2005i:74066**
Fleck, Norman A. (*with* Willis, John R.) Bounds and estimates for the effect of strain gradients upon the effective plastic properties of an isotropic two-phase composite. (English summary) **2005b:74111**
Gordeziani, David (*with* Avalishvili, G.) On a dynamical hierarchical model for prismatic shells in the theory of elastic mixtures. (English summary) **2005k:74055**
Grabovsky, Yury Algebra, geometry, and computations of exact relations for effective moduli of composites. (English summary) **2005c:74065**
Guenneau, Sébastien (*with* Movchan, Alexander; Poulton, C. G.; Nicolet, André) Coupling between electromagnetic and mechanical vibrations of thin-walled structures. (English summary) **2005c:74032**
Gutiérrez, Sergio Rank-three laminates are good approximants of the optimal microstructures for the diffusion problem in dimension two. (English summary) **2005a:74082**
— Laminations in planar anisotropic linear elasticity. (English summary) **2005k:74068**
He, Qi-Chang (*with* Benveniste, Y.) Exactly solvable spherically anisotropic thermoelastic microstructures. (English summary) **2005e:74013**
Ieşan, D. On the nonlinear theory of interacting micromorphic materials. (English summary) **2005f:74007**
— On the theory of viscoelastic mixtures. (English summary) **2005g:74038**
Janjgava, R. General solutions of stretch-press and bending equations of binary mixtures using I. Vekua's method for $N = 1$ approximation. (Georgian summary) **2005e:74034**
Kankanala, S. V. (*with* Triantafyllidis, N.) On finitely strained magnetorheological elastomers. (English summary) **2005g:74045**
Koĭsin, V. E. *see* **Skvortsov, V. R. et al., 2005m:74059**
Krakhmalev, S. Yu. *see* **Skvortsov, V. R. et al., 2005m:74059**
Kratochvíl, Jan (*with* Málek, Josef; Rajagopal, Kumbakonam; Srinivasa, A. R.) Modeling of the response of elastic plastic materials treated as a mixture of hard and soft regions. (English summary) **2005a:74030**
Leseduarte, M. C. (*with* Quintanilla, R.) Saint-Venant decay rates for a non-homogeneous isotropic mixture of elastic solids in anti-plane shear. (English summary) **2005j:74019**
(Li, Yan Yan) *see* **Nirenberg, Louis, 2005g:35082**
Lin, Ru-Li (*with* Ma, Chien-Ching) Theoretical full-field analysis of dissimilar isotropic composite annular wedges under anti-plane deformations. (English summary) **2005c:74028**
Lipton, Robert Bounds on the distribution of extreme values for the stress in composite materials. (English summary) **2005a:74083**
Lopez-Pamies, Oscar (*with* Ponte Castañeda, Pedro) Second-order homogenization estimates incorporating field fluctuations in finite elasticity. (English summary) **2005b:74112**
Luciano, R. (*with* Willis, John R.) FE analysis of stress and strain fields in finite random composite bodies. (English summary) **2005m:74096**
Ma, Chien-Ching *see* **Lin, Ru-Li, 2005c:74028**
Mabrouk, Mongi (*with* Samadi, Hassan) Linear and semi-linear reinforcement problems by thin layers. (English summary) **2005a:35026**
Málek, Josef *see* **Kratochvíl, Jan et al., 2005a:74030**
Maugin, Gérard A. *see* **Otero Hernández, José A. et al., 2005a:74046**
Mityushev, V. *see* **Berlyand, Leonid, 2005k:74021**
Monsiváis, G. *see* **Otero Hernández, José A. et al., 2005a:74046**
Movchan, Alexander *see* **Guenneau, Sébastien et al., 2005c:74032**
Nicolet, André *see* **Guenneau, Sébastien et al., 2005c:74032**
Nirenberg, Louis Comment on: "Estimates for elliptic systems from composite material" [Comm. Pure Appl. Math. **56** (2003), no. 7, 892–925; MR1990481 (2004k:35097)] by Y. Li and Nirenberg. (English summary) **2005g:35082**
Otero Hernández, José A. (*with* Calás, H.; Rodríguez-Ramos, R.; Maugin, Gérard A.; Monsiváis, G.; Pérez-Alvarez, R.) Diffraction of transverse horizontal waves in Fibonacci piezoelectric superlattices. (English summary) **2005a:74046**
Pérez-Alvarez, R. *see* **Otero Hernández, José A. et al., 2005a:74046**
Ponte Castañeda, Pedro *see* **Lopez-Pamies, Oscar, 2005b:74112**
Poulton, C. G. *see* **Guenneau, Sébastien et al., 2005c:74032**
Procházka, Petr (*with* Šejnoha, Jiří) Extended Hashin-Shtrikman variational principles. (English summary) **2005f:74071**
Quintanilla, R. *see* **Leseduarte, M. C., 2005j:74019**
Rajagopal, Kumbakonam *see* **Kratochvíl, Jan et al., 2005a:74030**
Rodríguez-Ramos, R. *see* **Otero Hernández, José A. et al., 2005a:74046**
Rychlewska, Jowita (*with* Szymczyk, Jolanta; Woźniak, Czesław) Simplified models for the vibration analysis of micro-periodic elastic media. (English summary) **2005c:74035**
Samadi, Hassan *see* **Mabrouk, Mongi, 2005a:35026**
Šejnoha, Jiří *see* **Procházka, Petr, 2005f:74071**
Sergienko, Ivan V. (*with* Deĭneka, V. S.) On a numerical solution of a problem in the dynamic theory of elasticity for bodies with concentrated masses. (Russian. English, Russian and Ukrainian summaries) **2005m:74038**
Skvortsov, V. R. (*with* Koĭsin, V. E.; Krakhmalev, S. Yu.) Dynamic interaction of a rigid body with a plate on an elastic layer and a half-space. (Russian. Russian summary) **2005m:74059**
Srinivasa, A. R. *see* **Kratochvíl, Jan et al., 2005a:74030**
Szymczyk, Jolanta *see* **Rychlewska, Jowita et al., 2005c:74035**
Talbot, D. R. S. (*with* Willis, John R.) Bounds for the effective constitutive relation of a nonlinear composite. (English summary) **2005g:74102**
Tartakovskiĭ, D. M. *see* **Xiu, Dongbin, 2005h:74019**
Tibullo, V. *see* **D'Apice, Ciro et al., 2005j:74027**
Torquato, Salvatore (*with* Donev, Aleksandar Nikola) Minimal surfaces and multifunctionality. (English summary) **2005b:74084**
Triantafyllidis, N. *see* **Kankanala, S. V., 2005g:74045**
Wall, Peter *see* **Byström, Johan et al., 2005g:74101**
Willis, John R. *see* **Fleck, Norman A., 2005b:74111; Talbot, D. R. S., 2005g:74102; Aifantis, K. E., 2005j:74007** *and* **Luciano, R., 2005m:74096**
Woźniak, Czesław *see* **Rychlewska, Jowita et al., 2005c:74035**
Xiu, Dongbin (*with* Tartakovskiĭ, D. M.) A two-scale nonperturbative approach to uncertainty analysis of diffusion in random composites. (English summary) **2005h:74019**
Yu, Qing (*with* Fish, Jacob) Multiscale asymptotic homogenization for multiphysics problems with multiple spatial and temporal scales: a coupled thermo-viscoelastic example problem. (English summary) **2005i:74066**
Zohdi, T. I. Statistical ensemble error bounds for homogenized microheterogeneous solids. (English summary) **2005k:74067**

74E35 Random structure

Berlyand, Leonid (*with* Mityushev, V.) Increase and decrease of the effective conductivity of two phase composites due to polydispersity. (English summary) **2005k:74021**
Jenkins, James T. (*with* Johnson, David Linton; La Ragione, L.; Makse, H.) Fluctuations and the effective moduli of an isotropic, random aggregate of identical, frictionless spheres. (English summary) **2005f:74025**
Johnson, David Linton *see* **Jenkins, James T. et al., 2005f:74025**
La Ragione, L. *see* **Jenkins, James T. et al., 2005f:74025**
Makse, H. *see* **Jenkins, James T. et al., 2005f:74025**
Mityushev, V. *see* **Berlyand, Leonid, 2005k:74021**
Tartakovskiĭ, D. M. *see* **Xiu, Dongbin, 2005h:74019**
Xiu, Dongbin (*with* Tartakovskiĭ, D. M.) A two-scale nonperturbative approach to uncertainty analysis of diffusion in random composites. (English summary) **2005h:74019**

Items with secondary classifications in 74E35

Banks, H. T. (*with* Medhin, Negash G.; Pinter, Gabriella A.) Nonlinear reptation in molecular based hysteresis models for polymers. (English summary) **2005f:74022**
Byström, Johan (*with* Dasht, Johan; Wall, Peter) A numerical study of the convergence in stochastic homogenization. (English summary) **2005g:74101**
Dasht, Johan *see* **Byström, Johan et al., 2005g:74101**
Guadagnini, Alberto *see* **Tartakovskiĭ, D. M., 2005i:74067**
Ilieva, Keranka *see* **Markov, Konstantin**
Markov, Konstantin (*with* Ilieva, Keranka) A generalization of the Voigt-Reuss bounds for a binary medium. (English summary)
Medhin, Negash G. *see* **Banks, H. T. et al., 2005f:74022**
Ostoja-Starzewski, Martin Selected topics in stochastic wave propagation. (English summary) **2005m:74047**
Pinter, Gabriella A. *see* **Banks, H. T. et al., 2005f:74022**
Savin, Eric Diffusive regime for the high-frequency dynamics of randomly heterogeneous plates. (*see* **2005b:00020**)
Svanadze, K. Effective solution of the mixed boundary value problem for an infinite isotropic plane with an elliptical hole. (Georgian summary)
Tartakovskiĭ, D. M. (*with* Guadagnini, Alberto) Effective properties of random composites. (English summary) **2005i:74067**
Wall, Peter *see* **Byström, Johan et al., 2005g:74101**
Zohdi, T. I. Statistical ensemble error bounds for homogenized microheterogeneous solids. (English summary) **2005k:74067**

74E40 Chemical structure

Items with secondary classifications in 74E40

Horgan, Cornelius O. (*with* Saccomandi, Giuseppe) Constitutive models for atactic elastomers. (English summary) (*see* **2005c:00016**)
Saccomandi, Giuseppe *see* **Horgan, Cornelius O., (2005c:00016)**

74E99 None of the above, but in this section

Items with secondary classifications in 74E99

Bermúdez de Castro, Alfredo (*with* Ferrín, J. L.; Prieto, Andres) A finite element solution of acoustic propagation in rigid porous media. (English summary) **2005i:76072**
Chiriţă, Stan *see* **Ciarletta, Michele et al., 2005k:74040**
Ciarletta, Michele (*with* Chiriţă, Stan; Passarella, Francesca) Some results on the spatial behaviour in linear porous elasticity. (English summary) **2005k:74040**
Ferrín, J. L. *see* **Bermúdez de Castro, Alfredo et al., 2005i:76072**
Mosconi, Marco A variational approach to porous elastic bodies. (English summary) **2005m:74004**
Passarella, Francesca *see* **Ciarletta, Michele et al., 2005k:74040**
Prieto, Andres *see* **Bermúdez de Castro, Alfredo et al., 2005i:76072**
Zohdi, T. I. Charge-induced clustering in multifield particulate flows. (English summary) **2005h:76081**

74Fxx Coupling of solid mechanics with other effects

74F05 Thermal effects

Abd-Alla, A. M. *see* **El-Naggar, A. M. et al., 2005c:74016**
Abdellaoui, Marouane (*with* El Jaï, Abdelhak) Modélisation par automates cellulaires d'un système thermoélastique. (French summary) [Cellular automaton model for a thermoelastic system] **2005b:74034**
Aşkar Altay, G. (*with* Dökmeci, M. Cengiz) The consistent Mindlin's thermopiezoelectric equations and the principle of virtual work. (English summary)
Baksi, Arup (*with* Bera, Rasajit Kumar; Debnath, Lokenath) Eigen value approach to study the effect of rotation and relaxation time in two dimensional problems of generalized thermoelasticity. (English summary)

— (*with* Bera, Rasajit Kumar) Eigenfunction expansion method for the solution of magneto-thermoelastic problems with thermal relaxation and heat source in two dimensions. (English summary) **2005k:74022**

Barber, James R. *see* **Ciavarella, M.**

Benveniste, Y. *see* **He, Qi-Chang**, **2005e:74013**

Bera, Rasajit Kumar *see* **Baksi, Arup et al.**, **2005k:74022**

Bień, M. Existence of global weak solutions for coupled thermoelasticity with Barber's heat exchange condition. (English summary) **2005e:74011**

Buradkar, A. B. (*with* Deshmukh, K. C.) Thermal stresses in an anisotropic thin circular cylinder. (English summary)

Buraga, A. B. (*with* Lenyuk, M. P.) The capacity of a dynamic thermoelastic field in a piecewise-homogeneous one-dimensional layer. (Ukrainian. English summary)

Chernyshov, A. D. Two-dimensional dynamic boundary value problems for curvilinear thermoelastic bodies. (Russian. Russian summary) **2005m:74022**

Chiriță, Stan *see* **D'Apice, Ciro**, **2005f:74026**

Chudinovich, Igor (*with* Constanda, Christian; Dolberg, Olga) On the Laplace transform of a matrix of fundamental solutions for thermoelastic plates. (English summary) **2005k:74023**

Ciarletta, Michele (*with* Scalia, Antonio) Some results in linear theory of thermomicrostretch elastic solids. (English summary) **2005a:74032**

Ciavarella, M. (*with* Barber, James R.) Stability of thermoelastic contact for a rectangular elastic block sliding against a rigid wall. (English summary)

Constanda, Christian *see* **Chudinovich, Igor et al.**, **2005k:74023**

Cui, Jun Zhi *see* **Feng, Yong-Ping**, **2005g:74037**

D'Apice, Ciro (*with* Chiriță, Stan) Spatial behaviour in a Mindlin-type thermoelastic plate. (English summary) **2005f:74026**

Debnath, Lokenath *see* **Baksi, Arup et al.**

Derkach, S. B. *see* **Povstenko, Yu. Z.**

Deshmukh, K. C. *see* **Meshram, S. A.**; **Buradkar, A. B.** *and* **Gogulwar, V. S.**

Dinzart, F. (*with* Molinari, Alain) Linear stability analysis for a thermoviscoplastic material under cyclic axial loading. (English summary) **2005k:74024**

Dökmeci, M. Cengiz *see* **Aşkar Altay, G.**

Dolberg, Olga *see* **Chudinovich, Igor et al.**, **2005k:74023**

El Jaï, Abdelhak *see* **Abdellaoui, Marouane**, **2005b:74034**

El-Karamany, Ahmed S. Maysel's formula in the generalized linear micropolar thermoviscoelasticity. (English summary) **2005g:74036**

El-Maghraby, Nasser M. (*with* Yossef, Hamdy M.) State space approach to generalized thermoelastic problem with thermomechanical shock. (English summary) **2005e:74012**

El-Naggar, A. M. (*with* Abd-Alla, A. M.; Fahmy, M. A.) The propagation of thermal stresses in an infinite elastic slab. (English summary) **2005c:74016**

El-Sayed, Amany M. *see* **Sherief, Hany H. et al.**, **2005m:74027**

Ezzat, Magdy A. Fundamental solution in generalized magneto-thermoelasticity with two relaxation times for perfect conductor cylindrical region. (English summary)

Fahmy, M. A. *see* **El-Naggar, A. M. et al.**, **2005c:74016**

Feng, Xiaobing (*with* Xie, Zheng Hui) A priori error estimates for a coupled finite element method and mixed finite element method for a fluid-solid interaction problem. (English summary) **2005i:74021**

Feng, Yong-Ping (*with* Cui, Jun Zhi) Multi-scale analysis and FE computation for the structure of composite materials with small periodic configuration under condition of coupled thermoelasticity. (English summary) **2005g:74037**

Gachkevich, A. R. (*with* Mikhaĭlishin, V. S.) Mathematical modeling and investigation of the stress state of bodies in the process of cooling under high-temperature annealing. (Ukrainian. English, Russian and Ukrainian summaries)

Gogulwar, V. S. (*with* Deshmukh, K. C.) Thermal stresses in a rectangular plate due to partially distributed heat supply. (English summary)

— (*with* Deshmukh, K. C.) Thermal deflection in a thin circular plate with heat sources. (English summary)

Guao, T. L. *see* **Shiah, Y. C. et al.**

Hamza, Farid A. *see* **Sherief, Hany H. et al.**, **2005m:74027**

Hasebe, Norio *see* **Verma, K. L.**

He, Qi-Chang (*with* Benveniste, Y.) Exactly solvable spherically anisotropic thermoelastic microstructures. (English summary) **2005e:74013**

Ieşan, D. On the theory of viscoelastic mixtures. (English summary) **2005g:74038**

Iovane, Gerardo (*with* Passarella, Francesca) Saint-Venant's principle in dynamic porous thermoelastic media with memory for heat flux. (English summary) **2005g:74039**

Jordan, P. M. *see* **Puri, Pratap**, **2005f:74027**

Kalpakidis, V. K. (*with* Maugin, Gérard A.) Canonical formulation and conservation laws of thermoelasticity without dissipation. (English summary) **2005c:74017**

Khobragade, N. W. (*with* Wankhede, P. C.) An inverse steady-state problem of thermoelastic deformation of a finite length hollow cylinder-VII. (English summary)

— (*with* Wankhede, P. C.) An inverse unsteady-state problem of thermoelastic deformation of a finite length hollow cylinder. II. (English summary) **2005c:74018**

— (*with* Wankhede, P. C.) An inverse thermoelastic problem of a thin rectangular plate. (English summary) **2005m:74023**

— (*with* Wankhede, P. C.) An inverse steady-state problem of thermoelastic deformation of a finite length hollow cylinder. III. (English summary) **2005i:74022**

Khomasuridze, N. Effective solution of a class of boundary value problems of thermoelasticity in generalized cylindrical coordinates. (English summary) **2005e:74014**

Kumar, Rajneesh (*with* Rani, Leena) Response of generalized thermoelastic half-space with voids due to mechanical and thermal sources. (English summary) **2005k:74025**

— (*with* Rani, Leena) Interaction due to mechanical and thermal sources in thermoelastic half-space with voids. (English summary) **2005k:74026**

Lee, Zong-Yi Hybrid numerical method applied to 3-D multilayered hollow cylinder with periodic loading conditions. (English summary)

Lenyuk, M. P. *see* **Buraga, A. B.**

Leslie, D. J. (*with* Scott, N. H.) Wave stability for constrained materials in anisotropic generalized thermoelasticity. (English summary) **2005g:74040**

Lychëv, S. A. A coupled dynamic problem of thermoelasticity for a finite cylinder. (Russian. English and Russian summaries) **2005i:74023**

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Melnik, Roderick V. N. *see* **Wang, Linxiang**, **(2005b:00020)**

Meshram, S. A. (*with* Deshmukh, K. C.) Inverse thermoelastic problem in a thin circular plate. (English summary)

— (*with* Deshmukh, K. C.) Transient heat conduction in a thin circular plate. (English summary)

Mikhaĭlishin, V. S. *see* **Gachkevich, A. R.**

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Narmania, M. The solution some problems of temperature stresses in transtropic plate. (English and Georgian summaries)

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Povstenko, Yu. Z. (*with* Derkach, S. B.) Stresses caused by anomalous diffusion. (Ukrainian. English summary)

— Fractional heat conduction equation and associated thermal stress. (English summary) **2005i:74024**

Protsyuk, B. V. Application of the method of Green functions to the determination of the thermoelastic state of layered transversally isotropic spherical bodies. (Ukrainian. English, Russian and Ukrainian summaries)

Puri, Pratap (*with* Jordan, P. M.) On the propagation of plane waves in type-III thermoelastic media. (English summary) **2005f:74027**

Quintanilla, R. Spatial stability for the quasi-static problem of thermoelasticity. (English summary) **2005m:74025**

— (*with* Straughan, B.) A note on discontinuity waves in type III thermoelasticity. (English summary) **2005m:74026**

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Sherief, Hany H. (*with* Hamza, Farid A.; El-Sayed, Amany M.) Theory of generalized micropolar thermoelasticity and an axisymmetric half-space problem. (English summary) **2005m:74027**

Shiah, Y. C. (*with* Guao, T. L.; Tan, Choon-Lai) Two-dimensional BEM thermoelastic analysis of anisotropic media with concentrated heat sources. (English summary)

Straughan, B. *see* **Quintanilla, R.**, **2005m:74026**

Svanadze, Merab Fundamental solutions in the theory of micromorphic elastic solids with microtemperatures. (English summary) **2005a:74033**

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Tokoviĭ, Yu. V. (*with* Rychagivskiĭ, A. V.) Reduction of plane thermoelasticity problem in inhomogeneous strip to integral Volterra type equation. (English and Lithuanian summaries)

Verma, K. L. (*with* Hasebe, Norio) On the flexural and extensional thermoelastic waves in orthotropic plates with two thermal relaxation times.

Wang, Linxiang (*with* Melnik, Roderick V. N.) Nonlinear coupled thermomechanical waves: modelling shear type phase transformation in shape memory alloys. (English summary) (*see* **2005b:00020**)

Wankhede, P. C. *see* **Khobragade, N. W.**, **2005c:74018**; **2005i:74022** *and* **2005m:74023**

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Items with secondary classifications in 74F05

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Amendola, Giovambattista Existence, uniqueness, and asymptotic stability for a thermoelastic plate. (English and Ukrainian summaries)

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Arafat, Haider N. (*with* Nayfeh, Ali H.) Combination internal resonances in heated annular plates. (English summary)

Auricchio, Ferdinando (*with* Petrini, Lorenza) A three-dimensional model describing stress-temperature induced solid phase transformations: solution algorithm and boundary value problems. (English summary) **2005d:74032**

Avalos, George (*with* Lasiecka, Irena) The null controllability of thermoelastic plates and singularity of the associated minimal energy function. (English summary) **2005b:93015**

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Berezovskii, Arkadii A. (*with* Engelbrecht, Jüri; Maugin, Gérard A.) Numerical simulation of thermoelastic wave and phase-transition front propagation. (English summary) (*see* **2005b:00020**)
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Copetti, Maria I. M. Numerical approximation of dynamic deformations of a thermoviscoelastic rod against an elastic obstacle. (English summary) **2005e:74030**
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D'Apice, Ciro (*with* Tibullo, V.; Chiriţă, Stan) On the spatial behavior in the dynamic theory of mixtures of thermoelastic solids. (English summary) **2005j:74027**
De Cicco, S. (*with* Nappa, L.) Singular surfaces in thermoviscoelastic materials with voids. (English summary) **2005b:74010**
Deĭneka, V. S. *see* **Sergienko, Ivan V., 2005h:49009**
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Dequiedt, J. L. (*with* Stolz, C.) Propagation of a shock discontinuity in an elasto-plastic material: constitutive relations. (English summary) **2005g:74024**
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Dhaliwal, R. S. *see* **Rokne, J. et al., 2005i:45002**
Dunwoody, J. On a class of controllable deformations of isotropic incompressible elastic solids with simple material inhomogeneity. (English summary) **2005i:74008**
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Kapuria, S. (*with* Achary, G. G. S.) Exact 3D piezothermoelasticity solution for buckling of hybrid cross-ply plates using state space approach. (English summary)
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Krejčí, Pavel (*with* Sprekels, Jürgen; Stefanelli, Ulisse) Phase-field models with hysteresis in one-dimensional thermoviscoplasticity. (English summary) **2005d:74031**
— (*with* Sprekels, Jürgen; Stefanelli, Ulisse) One-dimensional thermo-visco-plastic processes with hysteresis and phase transitions. (English summary) **2005h:74054**
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Krutitskiĭ, P. A. (*with* Chikilëv, A. O.; Krutitskaya, N. Ch.; Kolybasova, V. V.) On a generalization of the Neumann problem for the Laplace equation outside cuts in a plane. (English summary) **2005i:35042**
Kucher, V. A. (*with* Markenscoff, Xanthippi) The Cosserat eigenfunctions for the elliptic exterior problem with applications to thermoelasticity and Stokes flow. (English summary) **2005i:35070**
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— *see also* **Bajkowski, J. et al., 2005a:74072**
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Lebon, Georgy (*with* Baltov, A.; Grmela, Miroslav) Extended thermodynamics of thermo-elasticity, visco-elasticity and visco-plasticity. (English summary)
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Makhmudov, O. I. The Cauchy problem for a system of equations in the theory of elasticity and thermoelasticity in space. (Russian) **2005e:35237**
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— (*with* Said Houari, Belkacem) Exponential stability in one-dimensional non-linear thermoelasticity with second sound. (English summary) **2005k:35405**
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Muñoz Rivera, Jaime Edilberto (*with* Naso, Maria Grazia) Exact controllability for hyperbolic thermoelastic systems with large memory. (English summary) **2005h:93019**
— *see also* **Qin, Yu-ming, 2005b:35275; 2005j:35216** *and* **Santiago Ayala, Yolanda S., 2005k:35408**
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Nedoma, Jiří On a coupled thermo-hydro-mechanical problem based on the thermo-visco-plastic rheology. (English summary) (*see* **2005g:65008**)
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Pawłow, Irena (*with* Żochowski, Antoni) Control problem for a non-linear thermoelasticity system. (English summary) **2005h:49062**
— (*with* Zajączkowski, Wojciech M.) Global existence to a three-dimensional nonlinear thermoelasticity system arising in shape memory materials. (English summary) **2005h:35339**
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Popovich, V. S. (*with* Tokoviĭ, Yu. V.) Construction of a solution to a plane problem of thermoelasticity for a thermosensitive strip. (Ukrainian. English, Russian and Ukrainian summaries)
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Alonso, Ana Esther (*with* Dello Russo, Anahí; Padra, Claudio; Rodríguez, Rodolfo) Accurate pressure post-process of a finite element method for elastoacoustics. (English summary) **2005j:74013**
Asghar, Saleem *see* **Hayat, Tasawar et al., 2005g:74044**
Baer, T. A. *see* **Noble, D. R. et al., (2005b:65003)**
Bakırtaş, İlkay (*with* Demiray, Hilmi) Amplitude modulation of nonlinear waves in a fluid-filled tapered elastic tube. (English summary) **2005b:74037**
— (*with* Demiray, Hilmi) Weakly non-linear waves in a tapered elastic tube filled with an inviscid fluid. (English summary) **2005k:74028**
Batra, R. C. *see* **dell'Isola, F. et al., 2005b:74039**
Benney, Richard *see* **Stein, Keith et al.**
Bergmann, D. *see* **Rank, E. et al.**
Bernakevich, Ĭ. Ē. (*with* Vagĭn, P. P.; Shinkarenko, G. A.) A mathematical model of acoustic interaction between a shell and a fluid. II. Projection-difference approximations and their convergence. (Ukrainian. English, Russian and Ukrainian summaries) **2005i:74025**
Bessi Fourati, R. *see* **Bonnans, Joseph Frédéric et al., 2005c:74020**
Blom, Frederic *see* **Leyland, Pénélope et al., (2005b:74043)**
Blyth, M. G. (*with* Pozrikidis, C.) Solution space of axisymmetric capsules enclosed by elastic membranes. (English summary) **2005c:74019**
Bonnans, Joseph Frédéric (*with* Bessi Fourati, R.; Smaoui, H.) The obstacle problem for water tanks. (English and French summaries) **2005c:74020**
Bonnet-Ben Dhia, Anne-Sophie (*with* Mercier, Jean-François) Resonances of an elastic plate in a confined flow. (English summary) (*see* **2005b:00020**)
Borja, Ronaldo I. *see* **Li, Chao et al., 2005b:74040**
Breuer, Michael *see* **Rank, E. et al.**
Brevdo, Leonid (*with* Il'ichev, A. T.) Absolute instability of a thin visco-elastic plate in an air flow. (English summary) **2005f:74028**
van Brummelen, E. H. Convergence of successive approximation for a free-boundary problem in fluid-structure interaction. (English summary) (*see* **2005b:65003**)
— *see also* **Michler, C., (2005b:65003)**
Carstens, Volker *see* **Leyland, Pénélope et al., (2005b:74043)**
Casadei, Folco (*with* Potapov, Serguei) Permanent fluid-structure interaction with non-conforming interfaces in fast transient dynamics. (English summary)
Charles, Richard *see* **Stein, Keith et al.**
Chen, Zhangxin (*with* Lyons, Stephen L.; Qin, Guan) The mechanical behavior of a poroelastic medium saturated with a Newtonian fluid. (English summary) **2005a:74034**
Cheng, A. H.-D. *see* **Lopatnikov, S. L., 2005f:74030**
Chernyĭ, G. G. *see* **Golubyatnikov, A. N. et al., 2005m:74028**
Clark, R. L. *see* **Dowell, Earl H. et al., 2005h:74020**
Cortez, Ricardo (*with* Peskin, Charles S.; Stockie, John M.; Varela, Douglas) Parametric resonance in immersed elastic boundaries. (English summary) **2005i:74026**
Cottet, Georges-Henri (*with* Maitre, Emmanuel) A level-set formulation of immersed boundary methods for fluid-structure interaction problems. (English and French summaries) **2005b:74038**
Cox, David E. *see* **Dowell, Earl H. et al., 2005h:74020**
Curtiss, H. C., Jr. *see* **Dowell, Earl H. et al., 2005h:74020**
Dello Russo, Anahí *see* **Alonso, Ana Esther et al., 2005j:74013**
Demiray, Hilmi Modulation of nonlinear waves in a fluid-filled elastic tube with stenosis. (English summary) **2005g:74042**
— On the existence of some evolution equations in fluid-filled elastic tubes and their progressive wave solutions. (English summary) **2005c:74021**
— On some nonlinear waves in fluid-filled viscoelastic tubes: weakly dispersive case. (English summary) **2005g:74043**
— *see also* **Bakırtaş, İlkay, 2005b:74037** *and* **2005k:74028**
(Dervieux, Alain) *see* **Fluid-structure interaction, 2005b:74043**
Destuynder, Philippe (*with* Vétillard, Jocelyne) A noise control problem arising in a flow duct. (English summary) **2005j:74014**
Dowell, Earl H. (*with* Clark, R. L.; Cox, David E.; Curtiss, H. C., Jr.; Edwards, John W.; Hall, Kenneth C.; Peters, David A.; Scanlan, Robert; Simiu, Emil; Sisto, Fernando; Strganac, Thomas W.) ★ A modern course in aeroelasticity. **2005h:74020**
— *see also* **Liu, Liping[1]**
Durst, Franz *see* **Rank, E. et al.**
Edwards, John W. *see* **Dowell, Earl H. et al., 2005h:74020**
Fanion, Thierry (*with* Fernández, Miguel-Ángel; le Tallec, Patrick) Deriving adequate formulations for fluid-structure interaction problems: from ALE to transpiration. **2005c:74022**
Farhat, Charbel *see* **Piperno, Serge, 2005e:74017**
Fernández, Miguel-Ángel *see* **Fanion, Thierry et al., 2005c:74022**
Fitt, Alistair D. (*with* Please, Colin P.) On the separation of coconuts: a modeling week study. (English summary)
Gatmiri, Behrouz (*with* Van Nguyen, Khoa) Time 2D fundamental solution for saturated porous media with incompressible fluid. (English summary) **2005i:74027**
Gaul, Lothar *see* **Maess, Matthias**
Glück, Markus *see* **Rank, E. et al.**
Golubyatnikov, A. N. (*with* Zonenko, S. I.; Chernyĭ, G. G.) On the cumulative effect under large deformations of a shell under the action of unilateral pressure. (Russian) **2005m:74028**
Gomilko, A. M. (*with* Savitskii, O. A.; Trofimchuk, A. N.) Asymptotic solution of a harmonic contact problem for a permeable stamp on a liquid saturated base. (English and Ukrainian summaries) **2005e:74015**
Grandmont, Céline (*with* Maday, Yvon) Fluid-structure interaction: a theoretical point of view. **2005e:74016**
Halfmann, A. *see* **Rank, E. et al.**
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Hansbo, Peter (*with* Hermansson, Joakim; Svedberg, Thomas) Nitsche's method combined with space-time finite elements for ALE fluid-structure interaction problems. (English summary) **2005c:74023**
Hayat, Tasawar (*with* Wang, Yongqi; Hutter, Kolumban; Asghar, Saleem; Siddiqui, Abdul Majeed) Peristaltic transport of an Oldroyd-B fluid in a planar channel. **2005g:74044**
Heil, Matthias *see* **White, Joseph P., 2005k:74031**
Hermansson, Joakim *see* **Hansbo, Peter et al., 2005c:74023**
Hisada, T. *see* **Washio, T. et al.**
Huang, Yi[1] (*with* Wang, Xiaogang) The 3-D non-axisymmetrical Lamb's problem in transversely isotropic saturated poroelastic media. (English summary) **2005i:74028**
Hutter, Kolumban *see* **Hayat, Tasawar et al., 2005g:74044**
Il'ichev, A. T. *see* **Brevdo, Leonid, 2005f:74028**
Il'yasov, Kh. Kh. Propagation of nonradiating waves along a free surface of a porous fluid-saturated medium. (Russian. Russian summary) **2005i:74029**
Imomnazarov, Kh. Kh. Electromechanical potentials in cortical bone (a phenomenological approach). (Russian)
dell'Isola, F. (*with* Sciarra, G.; Batra, R. C.) Static deformations of a linear elastic porous body filled with an inviscid fluid. (English summary) **2005b:74039**
Kaiser, U. *see* **Rank, E. et al.**
Kirkinis, Eleftherios *see* **Tsai, Hungyu et al.**
Kononov, Yu. N. On the oscillations of a physical pendulum containing a two-layer fluid separated by an elastic membrane. (Russian. Russian summary) **2005m:74029**
Leyland, Pénélope (*with* Blom, Frederic; Carstens, Volker; Tefy, Tiana) Fully coupled fluid-structure algorithms for aeroelasticity and forced vibration induced flutter: applications to a compressor cascade. (*see* **2005b:74043**)
Li, Chao (*with* Borja, Ronaldo I.; Regueiro, Richard A.) Dynamics of porous media at finite strain. (English summary) **2005b:74040**
Lim, Sookkyung (*with* Peskin, Charles S.) Simulations of the whirling instability by the immersed boundary method. (English summary) **2005f:74029**
Liu, Liping[1] (*with* Dowell, Earl H.) The secondary bifurcation of an aeroelastic airfoil motion: effect of high harmonics. (English summary)
Lopatnikov, S. L. (*with* Cheng, A. H.-D.) Macroscopic Lagrangian formulation of poroelasticity with porosity dynamics. (English summary) **2005f:74030**
Lyons, Stephen L. *see* **Chen, Zhangxin et al., 2005a:74034**
Maday, Yvon *see* **Grandmont, Céline, 2005e:74016**
Maess, Matthias (*with* Gaul, Lothar) Simulation of vibro-acoustics in flexible piping systems. (English summary)
Maitre, Emmanuel *see* **Cottet, Georges-Henri, 2005b:74038**
Marchenko, O. A. *see* **Skopetskiĭ, V. V., 2005e:74018**
Márquez Gentil, Antonio (*with* Meddahi, Salim; Selgas, Virginia) A new BEM-FEM coupling strategy for two-dimensional fluid-solid interaction problems. (English summary) **2005b:74041**
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Mercier, Jean-François *see* **Bonnet-Ben Dhia, Anne-Sophie, (2005b:00020)**
Metcalfe, Paul D. Ribbed elastic structures under a mean flow. (English summary) **2005k:74029**
Michler, C. (*with* van Brummelen, E. H.) GMRES acceleration of subiteration for fluid-structure interactions. (English summary) (*see* **2005b:65003**)
Mohammadi, Bijan Sensitivity analysis and control in an elastic CAD-free framework for multi-model configurations. **2005d:74012**
Nedoma, Jiří On a coupled thermo-hydro-mechanical problem based on the thermo-visco-plastic rheology. (English summary) (*see* **2005g:65008**)
Noble, D. R. (*with* Schunk, P. R.; Wilkes, E. D.; Rao, Rekha R.; Baer, T. A.) Finite element simulations of fluid-structure interactions via overset meshes and sharp embedded interfacial conditions. (English summary) (*see* **2005b:65003**)
Ohayon, Roger Reduced models for fluid-structure interaction problems. (English summary) **2005b:74042**
Padra, Claudio *see* **Alonso, Ana Esther et al., 2005j:74013**
Parolini, Nicola (*with* Quarteroni, Alfio) Mathematical models and numerical simulations for the America's Cup. (English summary) **2005i:74030**
Pathania, Vijayata *see* **Sharma, Jagan Nath, 2005k:74030**
Pence, Thomas J. (*with* Tsai, Hungyu) Swelling-induced microchannel formation in nonlinear elasticity. (English summary) **2005h:74021**

— *see also* **Tsai, Hungyu et al.**
Peskin, Charles S. *see* **Lim, Sookkyung**, 2005f:74029 *and* **Cortez, Ricardo et al.**, 2005i:74026
Peters, David A. *see* **Dowell, Earl H. et al.**, 2005h:74020
Piperno, Serge (*with* Farhat, Charbel) Design of efficient partitioned procedures for the transient solution of aeroelastic problems. **2005e:74017**
Please, Colin P. *see* **Fitt, Alistair D.**
Potapov, Serguei *see* **Casadei, Folco**
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Radkevich, E. V. *see* **Wilmański, Krzysztof**, 2005m:74030
Rank, E. (*with* Halfmann, A.; Scholz, D.; Glück, Markus; Breuer, Michael; Durst, Franz; Kaiser, U.; Bergmann, D.; Wagner, Siegfried) Wind loads on lightweight structures: numerical simulation and wind tunnel tests. (English summary)
Rao, Rekha R. *see* **Noble, D. R. et al.**, (2005b:65003)
Regueiro, Richard A. *see* **Li, Chao et al.**, 2005b:74040
Rodríguez, Rodolfo *see* **Alonso, Ana Esther et al.**, 2005j:74013
Sathe, Sunil *see* **Stein, Keith et al.**
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Sciarra, G. *see* **dell'Isola, F. et al.**, 2005b:74039
Selgas, Virginia *see* **Márquez Gentil, Antonio et al.**, 2005b:74041
Sharma, Jagan Nath (*with* Pathania, Vijayata) Crested waves in thermoelastic plates immersed in liquid. (English summary) **2005k:74030**
Shinkarenko, G. A. *see* **Bernakevich, Ī. Ē. et al.**, 2005i:74025
Siddiqui, Abdul Majeed *see* **Hayat, Tasawar et al.**, 2005g:74044
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Sisto, Fernando *see* **Dowell, Earl H. et al.**, 2005h:74020
Skopetskiĭ, V. V. (*with* Marchenko, O. A.) Investigation of systems of dynamic consolidation of anisotropic media. (Russian. English and Ukrainian summaries) **2005e:74018**
Smaoui, H. *see* **Bonnans, Joseph Frédéric et al.**, 2005c:74020
Stein, Keith (*with* Tezduyar, Tayfun E.; Sathe, Sunil; Benney, Richard; Charles, Richard) Fluid-structure interaction modelling of parachute soft-landing dynamics. (English summary)
Stockie, John M. *see* **Cortez, Ricardo et al.**, 2005i:74026
Strganac, Thomas W. *see* **Dowell, Earl H. et al.**, 2005h:74020
Svedberg, Thomas *see* **Hansbo, Peter et al.**, 2005c:74023
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Tezduyar, Tayfun E. *see* **Stein, Keith et al.** *and* **Washio, T. et al.**
Trofimchuk, A. N. *see* **Gomilko, A. M. et al.**, 2005e:74015
Tsai, Hungyu (*with* Pence, Thomas J.; Kirkinis, Eleftherios) Swelling induced finite strain flexure in a rectangular block of an isotropic elastic material. (English summary)
— *see also* **Pence, Thomas J.**, 2005h:74021
Vagīn, P. P. *see* **Bernakevich, Ī. Ē. et al.**, 2005i:74025
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Wang, Xiaogang *see* **Huang, Yi[1]**, 2005i:74028
Wang, Yongqi *see* **Hayat, Tasawar et al.**, 2005g:74044
Washio, T. (*with* Hisada, T.; Watanabe, H.; Tezduyar, Tayfun E.) A robust preconditioner for fluid-structure interaction problems. (English summary)
Watanabe, H. *see* **Washio, T. et al.**
White, Joseph P. (*with* Heil, Matthias) Three-dimensional instabilities of liquid-lined elastic tubes: a thin-film fluid-structure interaction model. (English summary) **2005k:74031**
Wilkes, E. D. *see* **Noble, D. R. et al.**, (2005b:65003)
Wilmański, Krzysztof (*with* Radkevich, E. V.) Dispersion in a model for porous-elastic media with the balance equation for porosity. (Russian. Russian summary) **2005m:74030**
— Tortuosity and objective relative accelerations in the theory of porous materials. (English summary) **2005m:74031**
Zonenko, S. I. *see* **Golubyatnikov, A. N. et al.**, 2005m:74028

Items listed otherwise than by author

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Items with secondary classifications in 74F10

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Alekseev, A. S. (*with* Imomnazarov, Kh. Kh.; Grachev, E. V.; Rakhmonov, T. T.; Imomnazarov, B. Kh.) Direct and inverse dynamic problems for a system of equations of homogeneous elastic-porous media. (English summary)
Andrade, Doherty (*with* Fatori, L. H.) The nonlinear transmission problem with memory. (English summary) **2005f:35205**
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Asghar, Saleem *see* **Hayat, Tasawar et al.**, 2005m:76012
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Baaijens, Frank P. T. *see* **van de Vosse, F. N. et al.**, 2005b:76147
Bakırtaş, İlkay (*with* Antar, Nalan) Effect of stenosis on solitary waves in arteries. (English summary) **2005m:76206**
Balakrishnan, A. V. (*with* Shubov, Marianna A.) Asymptotic behaviour of the aeroelastic modes for an aircraft wing model in a subsonic air flow. (English summary) **2005m:76107**
Baronas, R. (*with* Ivanauskas, Feliksas; Sapagovas, M.) Numerical investigation of moisture movement in wood during drying. (English summary) (*see* **2005c:65004**)
Barrientos, Mauricio A. (*with* Gatica, Gabriel N.; Rodríguez, Rodolfo; Torrejón, Marcela E.) Analysis of a coupled BEM/FEM eigensolver for the hydroelastic vibrations problem. (English summary) **2005m:74040**
Barucq, Héléne (*with* Madaune-Tort, Monique; Saint-Macary, Patrick) Mathematical analysis of diffusion models in poro-elastic media. (*see* **2005b:00020**)
— (*with* Madaune-Tort, Monique; Saint-Macary, Patrick) Some existence-uniqueness results for a class of one-dimensional nonlinear Biot models. (English summary) **2005k:35401**
Bayada, Guy (*with* Chambat, M.; Cid, B.; Vázquez Cendón, C.) On the existence of solution for a nonhomogeneous Stokes-rod coupled problem. (English summary) **2005h:35276**
Bécache, Eliane (*with* Chaigne, Antoine; Derveaux, Grégoire; Joly, Patrick) Numerical simulation of a guitar. (English summary) **2005i:74036**
Bessems, D. *see* **van de Vosse, F. N. et al.**, 2005b:76147
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Boulakia, Muriel Existence of weak solutions for an interaction problem between an elastic structure and a compressible viscous fluid. (English and French summaries) **2005i:35207**
Brenner, Martin J. *see* **Lind, Rick et al.**
Bucchignani, Edoardo A numerical study of non-linear dynamics in a tank for aerospace applications. (English summary)
— (*with* Stella, Fulvio; Paglia, Fabio) A partition method for the solution of a coupled liquid-structure interaction problem. (English summary)
Buchanan, James L. (*with* Gilbert, Robert P.; Wirgin, Armand; Xu, Yongzhi S.) ★ Marine acoustics. **2005f:76091**
Čanić, Sunčica (*with* Lamponi, Daniele; Mikelić, Andro; Tambača, Josip) Self-consistent effective equations modeling blood flow in medium-to-large compliant arteries. (English summary) **2005m:76207**
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Chagneau, F. *see* **Le Dret, Hervé et al.**, 2005j:74005
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Chakravarty, Santabrata (*with* Sarifuddin; Mandal, Prasanta Kumar) Unsteady flow of a two-layer blood stream past a tapered flexible artery under stenotic conditions. (English summary) **2005i:76133**
Chambat, M. *see* **Bayada, Guy et al.**, 2005h:35276
Chapelon, J.-Y. *see* **Fellah, Zine El Abidine et al.**, 2005g:74064
Chiriță, Stan On the spatial decay of solutions in the theory of swelling porous thermoelastic soils. (English summary) **2005h:74047**
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Cid, B. *see* **Bayada, Guy et al.**, 2005h:35276
Clark, James David (*with* Fraser, Wynstone Barrie; Rahn, Christopher David; Rajamani, Arun) Limit-cycle oscillations of a heavy whirling cable subject to aerodynamic drag (English summary) **2005i:74037**
Clementz, Ph. (*with* Pernin, J. N.) Homogenization modeling of capillary forces in selective laser sintering. (English summary) **2005b:74108**
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Del Pin, Facundo *see* **Idelsohn, S. R. et al.**, 2005g:76094
Depollier, Claude (*with* Fellah, Zine El Abidine; Fellah, Mohamed) Propagation of transient acoustic waves in layered porous media: fractional equations for the scattering operators. (English summary) **2005h:76072**
— *see also* **Fellah, Zine El Abidine et al.**, 2005g:74064
Derveaux, Grégoire *see* **Bécache, Eliane et al.**, 2005i:74036
Dessi, D. (*with* Mastroddi, F.; Morino, L.) A fifth-order multiple-scale solution for Hopf bifurcations. (English summary) **2005g:70041**
Du, Qiang (*with* Gunzburger, Max D.; Hou, LiSheng; Lee, Jeehyun) Semidiscrete finite element approximations of a linear fluid-structure interaction problem. (English summary) **2005e:65143**
Dumont, Ney A. *see* **Wagner, Marcus Michael et al.**, 2005g:76082
Durand, Marc (*with* Guediri, Hocine) Scattering of acoustic waves by a layered elastic obstacle: a direct integral equations approach. (English summary) **2005c:76076**
El Hakeem Abd El Naby, Abd (*with* El Misery, A. E. M.; El Shamy, I. I.) Effects of an endoscope and fluid with variable viscosity on peristaltic motion. (English summary) **2005e:76096**
— (*with* El Misery, A. E. M.; Abd El Kareem, M. F.) Separation in the flow through peristaltic motion of a Carreau fluid in uniform tube. (English summary) **2005f:76028**
El Misery, A. E. M. *see* **El Hakeem Abd El Naby, Abd et al.**, 2005e:76096 *and* 2005f:76028
El Shamy, I. I. *see* **El Hakeem Abd El Naby, Abd et al.**, 2005e:76096
Elshehawey, E. F. (*with* Gharsseldien, Z. M.) Peristaltic transport of three-layered flow with variable viscosity. (English summary) **2005a:76179**
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Fasano, Antonio *see* **Borsi, I. et al.**, 2005k:35234
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Fellah, Zine El Abidine (*with* Depollier, Claude; Fellah, Mohamed; Lauriks, W.; Chapelon, J.-Y.) Influence of dynamic tortuosity and compressibility on the propagation of transient waves in porous media. (English summary) **2005g:74064**
— *see also* **Depollier, Claude et al.**, 2005h:76072
Feltham, Daniel L. *see* **Wilchinsky, Alexander V.**, 2005b:86020 *and* 2005g:86011
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Galeș, C. Potential method in the linear theory of swelling porous elastic soils. (English summary) **2005h:74048**
Gaspar, Francisco J. (*with* Lisbona, Francisco J.; Vabishchevich, Petr N.) A numerical model for the radial flow through porous and deformable shells. (English summary) **2005i:76103**
— (*with* Lisbona, Francisco J.; Oosterlee, Cornelis W.; Wienands, Roman) A systematic comparison of coupled and distributive smoothing in multigrid for the poroelasticity

system. (English summary) **2005e:65196**
— *see also* **Wienands, Roman et al., 2005h:65246**
Gatica, Gabriel N. *see* **Barrientos, Mauricio A. et al., 2005m:74040**
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Givoli, Dan *see* **Mar-Or, Assaf**
Grachev, E. V. *see* **Alekseev, A. S. et al.**
Grinchenko, V. T. (*with* Komissarova, G. L.) Characteristics of normal waves in elastic-fluid cylindrical waveguide. (English summary) **2005b:74071**
Grotberg, James B. (*with* Jensen, Oliver E.) Biofluid mechanics in flexible tubes. (English summary) **2005a:76180**
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Gunther, T. W. M. *see* **van de Vosse, F. N. et al., 2005b:76147**
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Haaker, T. I. *see* **Lumbantobing, H.**
Hanyga, Andrzej (*with* Seredyńska, Małgorzata) A dynamic model of capillary hysteresis in immiscible fluid displacement. (English summary) **2005m:76170**
de Hart, J. *see* **van de Vosse, F. N. et al., 2005b:76147**
Haslach, Henry W. (*with* Humphrey, Jay D.) Dynamics of biological soft tissue and rubber: internally pressurized spherical membranes surrounded by a fluid. (English summary) **2005e:74039**
Hayat, Tasawar (*with* Mahomed, F. M.; Asghar, Saleem) Peristaltic flow of a magnetohydrodynamic Johnson-Segalman fluid. (English summary) **2005m:76012**
Hernández, Erwin Approximation of the vibration modes of a plate coupled with a fluid by low-order isoparametric finite elements. (English summary) **2005h:65210**
— (*with* Rodríguez, Rodolfo) Finite element approximation of spectral acoustic problems on curved domains. (English summary) **2005c:76063**
Hoekstra, Alfons G. (*with* van 't Hoff, Jos; Artoli, Abdel Monim M.; Sloot, Peter M. A.) Lattice BGK simulations of unsteady flow in a 2D elastic tube. (English summary) (*see* **2005c:00014**)
van 't Hoff, Jos *see* **Hoekstra, Alfons G. et al., (2005c:00014)**
Hou, LiSheng *see* **Du, Qiang et al., 2005e:65143**
Humphrey, Jay D. *see* **Haslach, Henry W., 2005e:74039**
Idelsohn, S. R. (*with* Oñate, Eugenio; Del Pin, Facundo) The particle finite element method: a powerful tool to solve incompressible flows with free-surfaces and breaking waves. (English summary) **2005g:76094**
Imomnazarov, B. Kh. *see* **Alekseev, A. S. et al.**
Imomnazarov, Kh. Kh. *see* **Alekseev, A. S. et al.**
Iovane, Gerardo (*with* Passarella, Francesca) Saint-Venant's principle in dynamic porous thermoelastic media with memory for heat flux. (English summary) **2005g:74039**
Ivanauskas, Feliksas *see* **Baronas, R. et al., (2005c:65004)**
Jain, Madhu *see* **Sharma, G. C. et al.**
Jensen, Oliver E. *see* **Grotberg, James B., 2005a:76180**
Joly, Patrick *see* **Bécache, Eliane et al., 2005i:74036**
Kiiko, I. A. (*with* Kudryavtsev, B. Yu.) Nonlinear aeroelastic vibrations of a rectangular plate. (Russian. Russian summary)
Komissarova, G. L. *see* **Grinchenko, V. T., 2005b:74071**
Kononov, Yu. N. On the stability of equilibrium of a physical pendulum containing a multilayer fluid separated by elastic plates. (Russian. Russian summary) **2005k:70022**
Küçükarslan, Semih An exact truncation boundary condition for incompressible-unbounded infinite fluid domains. (English summary) **2005h:76055**
Kudryavtsev, B. Yu. *see* **Kiiko, I. A.**
Kumar, A. *see* **Sharma, G. C. et al.**
Kumar, Satish[2] *see* **Matar, Omar K., 2005g:76004**
Lamponi, Daniele *see* **Čanić, Sunčica et al., 2005m:76207**
de Langre, E. *see* **Mathelin, L., 2005m:76064**
Lauriks, W. *see* **Fellah, Zine El Abidine et al., 2005g:74064**
Le Dret, Hervé (*with* Lewandowski, Roger; Priour, D.; Chagneau, F.) Numerical simulation of a cod end net. I. Equilibrium in a uniform flow. (English summary) **2005j:74005**
Lee, Cheo K. Flow and deformation in poroelastic media with moderate load and weak inertia. (English summary) **2005b:76129**
Lee, Jeehyun *see* **Du, Qiang et al., 2005e:65143**
Lee, Long (*with* LeVeque, Randall J.) An immersed interface method for incompressible Navier-Stokes equations. (English summary) **2005a:65086**
LeVeque, Randall J. *see* **Lee, Long, 2005a:65086**
Lewandowski, Roger *see* **Le Dret, Hervé et al., 2005j:74005**
Lind, Rick (*with* Prazenica, Richard J.; Brenner, Martin J.) Estimating nonlinearity using Volterra kernels in feedback with linear models. (English summary)
Linton, C. M. *see* **Chung, Hyuck, 2005k:76015**
Lisbona, Francisco J. *see* **Gaspar, Francisco J. et al., 2005e:65196; 2005i:76103** *and* **Wienands, Roman et al., 2005h:65246**
Lumbantobing, H. (*with* Haaker, T. I.) Aeroelastic oscillations of a seesaw-type oscillator under strong wind conditions. (English summary)
Madaune-Tort, Monique *see* **Barucq, Héléne et al., 2005k:35401** *and* **(2005b:00020)**
Mahadevan, L. *see* **Skotheim, Jan M., 2005b:74075**
Mahomed, F. M. *see* **Hayat, Tasawar et al., 2005m:76012**
Mal'tseva, T. V. (*with* Trefilina, E. R.) Modeling a two-phase body taking into account the carrying capacity of the fluid phase. (Russian. English and Russian summaries)
Mandal, Prasanta Kumar *see* **Chakravarty, Santabrata et al., 2005i:76133**
Mandel, Jan Iterative substructuring with Lagrange multipliers for coupled fluid-solid scattering. (*see* **2005f:65003**)
— (*with* Popa, Mirela O.) Iterative solvers for coupled fluid-solid scattering. (English summary) **2005m:65303**
Manuilovich, S. V. Propagation of a Tollmien-Schlichting wave over the junction between rigid and compliant surfaces. (Russian. Russian summary) **2005i:76047**
Mar-Or, Assaf (*with* Givoli, Dan) A finite element structural-acoustic model of coupled membranes. (English summary)
Mastroddi, F. *see* **Dessi, D. et al., 2005g:70041**
Matar, Omar K. (*with* Kumar, Satish[2]) Rupture of a surfactant-covered thin liquid film on a flexible wall. (English summary) **2005g:76004**
Mathelin, L. (*with* de Langre, E.) Vortex-induced vibrations and waves under shear flow with a wake oscillator model. (English summary) **2005m:76064**
Matvīichuk, K. S. Technical stability of nonlinear three-dimensional dynamic states of continuous systems that interact with a fluid flow. (Ukrainian. English and Ukrainian summaries) **2005e:74026**
Mikelić, Andro *see* **Čanić, Sunčica et al., 2005m:76207**
Mishra, Manoranjan (*with* Rao, Adabala Ramachandra) Peristaltic transport of a Newtonian fluid in an asymmetric channel. (English summary) **2005a:76181**
Molotkov, L. A. On the propagation of seismic waves in block fluid media. (Russian. English and Russian summaries) **2005h:86021**
— Propagation of seismic waves in block elastic-fluid media. III. (Russian. English and Russian summaries) **2005i:86015**
Morino, L. *see* **Dessi, D. et al., 2005g:70041**
Motsa, S. S. *see* **Sibanda, P. et al., 2005d:76014**
Mousavizadegan, S. H. (*with* Rahman, Matiur) Numerical method in wave-body interactions. (English summary) **2005g:76081**
Munnier, Alexandre Stability and linear oscillations of liquid bridges with varied boundary conditions under zero gravity. (English summary) **2005a:76023**
Nardinocchi, Paola (*with* Pontrelli, Giuseppe; Teresi, Luciano) A one-dimensional model for blood flow in prestressed vessels. (English summary) **2005i:76134**
van Oijen, C. H. G. A. *see* **van de Vosse, F. N. et al., 2005b:76147**
Oñate, Eugenio *see* **Idelsohn, S. R. et al., 2005g:76094**
Oosterlee, Cornelis W. *see* **Gaspar, Francisco J. et al., 2005e:65196** *and* **Wienands, Roman et al., 2005h:65246**
Paglia, Fabio *see* **Bucchignani, Edoardo et al.**
Passarella, Francesca *see* **Iovane, Gerardo, 2005g:74039**
Peregudin, S. I. Long waves in a homogeneous fluid over a deformable bottom. (Russian. English and Russian summaries) **2005m:76030**
Pernin, J. N. *see* **Clementz, Ph., 2005b:74108**
Pontrelli, Giuseppe *see* **Nardinocchi, Paola et al., 2005i:76134**
Popa, Mirela O. *see* **Mandel, Jan, 2005m:65303**
(Pozrikidis, C.) *see* **Modeling and simulation of capsules and biological cells, 2005b:92016**
Prazenica, Richard J. *see* **Lind, Rick et al.**
Priour, D. *see* **Le Dret, Hervé et al., 2005j:74005**
Rahman, Matiur *see* **Mousavizadegan, S. H., 2005g:76081**
Rahn, Christopher David *see* **Clark, James David et al., 2005i:74037**
Rajamani, Arun *see* **Clark, James David et al., 2005i:74037**
Rakhmonov, T. T. *see* **Alekseev, A. S. et al.**
Rao, Adabala Ramachandra *see* **Mishra, Manoranjan, 2005a:76181**
Rauch, Jeffrey (*with* Zhang, Xu[1]; Zuazua, Enrique) Polynomial decay for a hyperbolic-parabolic coupled system. (English and French summaries) **2005k:35024**
Rodríguez, Rodolfo *see* **Hernández, Erwin, 2005c:76063** *and* **Barrientos, Mauricio A. et al., 2005m:74040**
Ryzhkova, Irina Stabilization of von Kármán plate in the presence of thermal effects in a subsonic potential flow of gas. (English summary) **2005c:74036**
Saha, Ratan K. *see* **Sharma, Subodh K., 2005c:76080**
Saint-Macary, Patrick *see* **Barucq, Héléne et al., 2005k:35401** *and* **(2005b:00020)**
Sapagovas, M. *see* **Baronas, R. et al., (2005c:65004)**
Sarifuddin *see* **Chakravarty, Santabrata et al., 2005i:76133**
Schrefler, B. A. Multiphase flow in deforming porous material. (English summary)
Segal, August *see* **van de Vosse, F. N. et al., 2005b:76147**
Seredyńska, Małgorzata *see* **Hanyga, Andrzej, 2005m:76170**
Sergeev, V. S. On the stability in the critical case of the equilibrium state of a wing in an unsteady flow. (Russian. English and Russian summaries) **2005d:76026**
— On limit-periodic motions in some systems with aftereffect. (Russian. Russian summary) **2005k:34272**
Sergienko, Ivan V. (*with* Deĭneka, V. S.) Numerical modeling of the vertical consolidation of water-saturated grounds. (Russian. English summary) **2005j:76087**
Sharma, G. C. (*with* Jain, Madhu; Kumar, A.) Performance modeling and analysis of blood flow in elastic arteries. (English summary)
Sharma, Subodh K. (*with* Saha, Ratan K.) On the validity of some new acoustic scattering approximations. (English summary) **2005c:76080**
Shateyi, S. *see* **Sibanda, P. et al., 2005d:76014**
Shubov, Marianna A. Spectral properties of the generalized resolvent operator for an aircraft wing model in subsonic airflow. (English summary) **2005d:74013**
— *see also* **Balakrishnan, A. V., 2005m:76107**
Sibanda, P. (*with* Motsa, S. S.; Shateyi, S.) Linear stability of two-dimensional flow to three-dimensional perturbations in a channel with a flexible wall. (English summary) **2005d:76014**
Silva, W. Identification of nonlinear aeroelastic systems based on the Volterra theory: progress and opportunities. (English summary)
Skotheim, Jan M. (*with* Mahadevan, L.) Dynamics of poroelastic filaments. (English summary) **2005b:74075**
Sloot, Peter M. A. *see* **Hoekstra, Alfons G. et al., (2005c:00014)**
Stella, Fulvio *see* **Bucchignani, Edoardo et al.**
Stijnen, J. M. A. *see* **van de Vosse, F. N. et al., 2005b:76147**
Sváček, Petr (*with* Feistauer, Miloslav) Application of a stabilized FEM to problems of aeroelasticity. (English summary) (*see* **2005j:65003**)
Tambača, Josip *see* **Čanić, Sunčica et al., 2005m:76207**
Teresi, Luciano *see* **Nardinocchi, Paola et al., 2005i:76134**
Torrejón, Marcela E. *see* **Barrientos, Mauricio A. et al., 2005m:74040**
Trefilina, E. R. *see* **Mal'tseva, T. V.**
Triggiani, Roberto Backward uniqueness of semigroups arising in coupled partial differential equations systems of structural acoustics. (English summary) **2005h:35218**
Vabishchevich, Petr N. *see* **Gaspar, Francisco J. et al., 2005i:76103**
Vázquez Cendón, C. *see* **Bayada, Guy et al., 2005h:35276**
Vedeneev, V. V. Instability of an unbounded elastic plate in a gas flow. (Russian. Russian summary) **2005g:74060**

Vorus, William S. A compliant-hull concept for planning craft wave-impact shock reduction. (English summary) **2005a:76035**
Voss, Heinrich Locating real eigenvalues of a spectral problem in fluid-solid type structures. **2005m:35203**
van de Vosse, F. N. (*with* de Hart, J.; van Oijen, C. H. G. A.; Bessems, D.; Gunther, T. W. M.; Segal, August; Wolters, B. J. B. M.; Stijnen, J. M. A.; Baaijens, Frank P. T.) Finite-element-based computational methods for cardiovascular fluid-structure interaction. (English summary) **2005b:76147**
Wagner, Marcus Michael (*with* Gaul, Lothar; Dumont, Ney A.) The hybrid boundary element method in structural acoustics. (English summary) **2005g:76082**
Wienands, Roman (*with* Gaspar, Francisco J.; Lisbona, Francisco J.; Oosterlee, Cornelis W.) An efficient multigrid solver based on distributive smoothing for poroelasticity equations. (English summary) **2005h:65246**
— *see also* **Gaspar, Francisco J. et al., 2005e:65196**
Wilchinsky, Alexander V. (*with* Feltham, Daniel L.) Stability of an ice sheet on an elastic bed. (English summary) **2005b:86020**
— (*with* Feltham, Daniel L.) A continuum anisotropic model of sea-ice dynamics. (English summary) **2005g:86011**
Wilmański, Krzysztof Critical time for acoustic waves in weakly nonlinear poroelastic materials. (English summary) **2005m:76163**
Wirgin, Armand *see* **Buchanan, James L. et al., 2005f:76091**
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Zhang, Xu[1] *see* **Rauch, Jeffrey et al., 2005k:35024**
Zuazua, Enrique *see* **Rauch, Jeffrey et al., 2005k:35024**

Items listed otherwise than by author

Modeling and simulation of capsules and biological cells ★ Modeling and simulation of capsules and biological cells. **2005b:92016**

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Abd-Alla, A. M. (*with* Hammad, H. A. H.; Abo-Dahab, S. M.) Magneto-thermo-viscoelastic interactions in an unbounded body with a spherical cavity subjected to a periodic loading. (English summary) **2005c:74024**
Abo-Dahab, S. M. *see* **Abd-Alla, A. M. et al., 2005c:74024**
Ambur, Damodar R. *see* **Hasanyan, Davresh J. et al., 2005c:74025**
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Billardon, René *see* **Daniel, Laurent et al., 2005m:74032**
Borrelli, Alessandra (*with* Horgan, Cornelius O.; Patria, M. Cristina) Exponential decay of end effects in anti-plane shear for functionally graded piezoelectric materials. (English summary) **2005k:74032**
Craciun, Eduard-Marius (*with* Baesu, Eveline; Soós, Eugen) General solution in terms of complex potentials for incremental antiplane states in prestressed and prepolarized piezoelectric crystals: application to Mode III fracture propagation. (English summary) **2005j:74015**
Daniel, Laurent (*with* Hubert, Olivier; Billardon, René) Homogenisation of magneto-elastic behaviour: from the grain to the macro scale. (English summary) **2005m:74032**
Dorfmann, Al (*with* Ogden, Ray W.; Saccomandi, Giuseppe) Universal relations for non-linear magnetoelastic solids. (English summary) **2005c:74026**
— (*with* Ogden, Ray W.) Nonlinear magnetoelastic deformations. (English summary) **2005f:74031**
Fang, Dai-ning *see* **Liu, Jin-xi et al.**
Hammad, H. A. H. *see* **Abd-Alla, A. M. et al., 2005c:74024**
Hasanyan, Davresh J. (*with* Librescu, Liviu; Ambur, Damodar R.) A few results on the foundation of the theory and behavior of nonlinear magnetoelastic plates carrying an electrical current. (English summary) **2005c:74025**
Horgan, Cornelius O. *see* **Borrelli, Alessandra et al., 2005k:74032**
Hubert, Olivier *see* **Daniel, Laurent et al., 2005m:74032**
Jiang, Quan (*with* Kuang, Zhen-Bang) Stress analysis in two dimensional electrostrictive material with an elliptic rigid conductor. (English summary)
Kankanala, S. V. (*with* Triantafyllidis, N.) On finitely strained magnetorheological elastomers. (English summary) **2005g:74045**
Kuang, Zhen-Bang *see* **Jiang, Quan**
Librescu, Liviu *see* **Hasanyan, Davresh J. et al., 2005c:74025**
Liu, Jin-xi (*with* Soh, Ai-Kah; Fang, Dai-ning) A moving dislocation in a magneto-electro-elastic solid. (English summary)
Ogden, Ray W. *see* **Dorfmann, Al et al., 2005c:74026** *and* **2005f:74031**
Patria, M. Cristina *see* **Borrelli, Alessandra et al., 2005k:74032**
Saccomandi, Giuseppe *see* **Dorfmann, Al et al., 2005c:74026**
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Triantafyllidis, N. *see* **Kankanala, S. V., 2005g:74045**
Yin, Wan-Lee Two-dimensional piezoelectricity. I. Eigensolutions of nondegenerate and degenerate materials. (English summary) **2005j:74016**
— Two-dimensional piezoelectricity. II. General solution, Green's function and interface cracks. (English summary) **2005j:74017**

Items with secondary classifications in 74F15

Abd-Alla, A. M. (*with* Hammad, H. A. H.; Abo-Dahab, S. M.) Rayleigh waves in a magnetoelastic half-space of orthotropic material under influences of initial stress and gravity field. (English summary) **2005j:74029**
Abo-Dahab, S. M. *see* **Abd-Alla, A. M. et al., 2005j:74029**
Achary, G. G. S. *see* **Kapuria, S.**
Aşkar Altay, G. (*with* Dökmeci, M. Cengiz) Variational principles and vibrations of a functionally graded plate. (English summary)
— (*with* Dökmeci, M. Cengiz) The consistent Mindlin's thermopiezoelectric equations and the principle of virtual work. (English summary)
Baksi, Arup (*with* Bera, Rasajit Kumar) Eigenfunction expansion method for the solution of magneto-thermoelastic problems with thermal relaxation and heat source in two dimensions. (English summary) **2005k:74022**
Banerjee, Manidipa *see* **Roychoudhuri, S. K., 2005k:74043**
Bao, Zhongping (*with* Mukherjee, Subrata) Electrostatic BEM for MEMS with thin beams. (English summary)
Becerril Arreola, Rafael *see* **Maggiore, Manfredi, 2005e:93060**
Belahcen, A. Magnetoelastic coupling and Rayleigh damping. (English summary)
Beltrame, Ph. Modelisation of thin cracks with varying conductivity in eddy-current testing. (English summary)
Bera, Rasajit Kumar *see* **Baksi, Arup, 2005k:74022**
Bhattacharyya, Rabindra Kumar *see* **Chattopadhyay, G., (2005b:00020)**
Borucki, Len *see* **Wilkening, Jon et al., 2005h:35343** *and* **2005h:35344**
Bruch, J. C., Jr. *see* **Zhang, Jianying et al., 2005k:74059**
Buchukuri, Tengiz (*with* Chkadua, Otar; Duduchava, Roland) Crack-type boundary value problems of electro-elasticity. (English summary) **2005e:74021**
Calás, H. *see* **Otero Hernández, José A. et al., 2005a:74046**
Chakraborty, Abir (*with* Roy Mahapatra, D.; Gopalakrishnan, S.) Finite element simulation of BAW propagation in inhomogeneous plate due to piezoelectric actuation. (English summary) (*see* **2005g:65009**)
Chanda, T. *see* **Svendsen, Bob, 2005k:74003**
Chattopadhyay, G. (*with* Bhattacharyya, Rabindra Kumar) Determination of Green's tensor for a conducting magneto-viscoelastic medium. (*see* **2005b:00020**)
Chkadua, Otar *see* **Buchukuri, Tengiz et al., 2005e:74021**
Cimatti, Giovanni Forced periodic solutions for piezoelectric crystals. (English summary) **2005m:35298**
Danoyan, Z. N. On a plane problem of the propagation of magnetoelastic waves in an anisotropic perfectly conducting medium from a point source. (Russian. Russian and Armenian summaries)
— Propagation of plane magnetoelastic waves in anisotropic perfectly conducting media (Russian. Russian and Armenian summaries)
— Investigation of the roots of the characteristic equation of plane magnetoelastic waves for perfectly conducting anisotropic media. (Russian. English, Russian and Ukrainian summaries)
Darinskii, A. N. (*with* Weihnacht, M.) Interface acoustic waves in piezoelectric bi-crystalline structures of specific types. (English summary) **2005k:74047**
Daros, C. H. The elastic wave front shape generated by a circular source in a piezoelectric medium of crystal class 6mm. (English summary) **2005c:74041**
Dökmeci, M. Cengiz *see* **Aşkar Altay, G.**
Duduchava, Roland *see* **Buchukuri, Tengiz et al., 2005e:74021**
Essoufi, El-Hassan *see* **Sofonea, Mircea, 2005g:74090** *and* **2005j:74044**
Ezzat, Magdy A. Fundamental solution in generalized magneto-thermoelasticity with two relaxation times for perfect conductor cylindrical region. (English summary)
Gopalakrishnan, S. *see* **Chakraborty, Abir et al., (2005g:65009)**
Guan, Qun (*with* He, Shun Rong) General solution of the plane problem in piezoelectric, piezomagnetic and elastic media. (Chinese. English and Chinese summaries
Guenneau, Sébastien (*with* Movchan, Alexander; Poulton, C. G.; Nicolet, André) Coupling between electromagnetic and mechanical vibrations of thin-walled structures. (English summary) **2005c:74032**
Hamdache, Kamel (*with* Hamroun, Djamila) Local solutions to a model of piezoelectric materials. (English summary) **2005e:35224**
Hammad, H. A. H. *see* **Abd-Alla, A. M. et al., 2005j:74029**
Hamroun, Djamila *see* **Hamdache, Kamel, 2005e:35224**
He, Shun Rong *see* **Guan, Qun**
Hu, Yuan Tai (*with* Yang, Jia Shi; Jiang, Qing) Surface waves in electrostrictive materials under biasing fields. (English summary) **2005g:74066**
Jiang, Qing *see* **Hu, Yuan Tai et al., 2005g:74066**
Kapitonov, Boris V. (*with* Perla Menzala, G.) Uniform stabilization and exact control of a multilayered piezoelectric body. (English summary) **2005d:93126**
Kapuria, S. (*with* Achary, G. G. S.) Exact 3D piezothermoelasticity solution for buckling of hybrid cross-ply plates using state space approach. (English summary)
Krejčí, Pavel (*with* Kuhnen, Klaus) Error estimates for the discrete inversion of hysteresis and creep operators. (English summary) **2005e:74048**
Kuhnen, Klaus *see* **Krejčí, Pavel, 2005e:74048**
Maggiore, Manfredi (*with* Becerril Arreola, Rafael) Modelling and control design for a magnetic levitation system. (English summary) **2005e:93060**
Maugin, Gérard A. *see* **Otero Hernández, José A. et al., 2005a:74046**
Monsiváis, G. *see* **Otero Hernández, José A. et al., 2005a:74046**
Movchan, Alexander *see* **Guenneau, Sébastien et al., 2005c:74032**
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Narita, F. *see* **Shindo, Yasuhide**
Nicolet, André *see* **Guenneau, Sébastien et al., 2005c:74032**
Nicotra, V. (*with* Tiero, A.) Exact solutions for linearly electroelastic plate-like bodies. (English summary) **2005g:74047**
Ortner, Norbert (*with* Wagner, Peter[2]) Fundamental matrices of homogeneous hyperbolic systems. Applications to crystal optics, elastodynamics, and piezoelectromagnetism. (English summary) **2005c:35181**
Otero Hernández, José A. (*with* Calás, H.; Rodríguez-Ramos, R.; Maugin, Gérard A.; Monsiváis, G.; Pérez-Alvarez, R.) Diffraction of transverse horizontal waves in Fibonacci piezoelectric superlattices. (English summary) **2005a:74046**
Palazotto, A. N. *see* **Perel, V. Y., 2005b:74074**
Perel, V. Y. (*with* Palazotto, A. N.) A nonlinear model of composite delaminated beam with piezoelectric actuator, with account of nonpenetration constraint for the delamination crack faces. (English summary) **2005b:74074**
Pérez-Alvarez, R. *see* **Otero Hernández, José A. et al., 2005a:74046**
Perla Menzala, G. *see* **Kapitonov, Boris V., 2005d:93126**
Poulton, C. G. *see* **Guenneau, Sébastien et al., 2005c:74032**
Rodríguez-Ramos, R. *see* **Otero Hernández, José A. et al., 2005a:74046**
Rokhlin, S. I. *see* **Wang, Lugen, 2005e:74027**
Roychoudhuri, S. K. (*with* Banerjee, Manidipa) Magnetoelastic plane waves in rotating media in thermoelasticity of type II (G-N model). (English summary) **2005k:74043**
Roy Mahapatra, D. *see* **Chakraborty, Abir et al., (2005g:65009)**

Sabu, N. Vibrations of thin piezoelectric flexural shells: two-dimensional approximation. (English summary) **2005a:74064**
Selezov, I. T. Wave processes in fluids and elastic media. (English summary) **2005c:76020**
Sethian, J. A. *see* **Wilkening, Jon et al., 2005h:35343** *and* **2005h:35344**
Shindo, Yasuhide (*with* Narita, F.) The planar crack problem for a dielectric medium in a uniform electric field. (English summary)
Singh, Rattan Longitudinal vibrations in a semi-infinite piezo-electric bar under an arbitrary body-force in a magnetic field. (English summary)
Sloss, J. M. *see* **Zhang, Jianying et al., 2005k:74059**
Sofonea, Mircea (*with* Essoufi, El-Hassan) Quasistatic frictional contact of a viscoelastic piezoelectric body. (English summary) **2005j:74044**
— (*with* Essoufi, El-Hassan) A piezoelectric contact problem with slip dependent coefficient of friction. (English and Lithuanian summaries) **2005g:74090**
Svendsen, Bob (*with* Chanda, T.) Continuum thermodynamic formulation of models for electromagnetic thermoinelastic solids with application in electromagnetic metal forming. (English summary) **2005k:74003**
Tiero, A. *see* **Nicotra, V., 2005g:74047**
Wagner, Peter[2] *see* **Ortner, Norbert, 2005c:35181**
Wang, Lugen (*with* Rokhlin, S. I.) Recursive geometric integrators for wave propagation in a functionally graded multilayered elastic medium. (English summary) **2005e:74027**
Weihnacht, M. *see* **Darinskii, A. N., 2005k:74047**
Wilkening, Jon (*with* Borucki, Len; Sethian, J. A.) Analysis of stress-driven grain boundary diffusion. (English summary) **2005h:35343**
— (*with* Borucki, Len; Sethian, J. A.) Analysis of stress-driven grain boundary diffusion. II. Degeneracy. (English summary) **2005h:35344**
Yang, Fuqian General solutions of a penny-shaped crack in a piezoelectric material under opening mode loading. (English summary)
Yang, Jia Shi *see* **Hu, Yuan Tai et al., 2005g:74066**
Yin, Wan-Lee A unified formalism of two-dimensional anisotropic elasticity, piezoelectricity and unsymmetric laminated plates. (English summary) **2005m:74021**
Zhang, Jianying (*with* Bruch, J. C., Jr.; Sloss, J. M.) An integral equation approach for shape optimization of plate piezoelectric patch. (English summary) **2005k:74059**

74F20 Mixture effects

Svanadze, K. Investigation of the first and the second exterior plane boundary value problems of steady state oscillations in the linear theory of elastic mixtures. (English summary) **2005b:74044**

Items with secondary classifications in 74F20

Batra, R. C. *see* **dell'Isola, F. et al., 2005b:74039**
Ieşan, D. On the nonlinear theory of interacting micromorphic materials. (English summary) **2005f:74007**
dell'Isola, F. (*with* Sciarra, G.; Batra, R. C.) Static deformations of a linear elastic porous body filled with an inviscid fluid. (English summary) **2005b:74039**
Kratochvíl, Jan (*with* Málek, Josef; Rajagopal, Kumbakonam; Srinivasa, A. R.) Modeling of the response of elastic plastic materials treated as a mixture of hard and soft regions. (English summary) **2005a:74030**
Málek, Josef *see* **Kratochvíl, Jan et al., 2005a:74030**
Rajagopal, Kumbakonam *see* **Kratochvíl, Jan et al., 2005a:74030**
Sciarra, G. *see* **dell'Isola, F. et al., 2005b:74039**
Srinivasa, A. R. *see* **Kratochvíl, Jan et al., 2005a:74030**

74Gxx Equilibrium (steady-state) problems

74G05 Explicit solutions

Basheleishvili, M. Explicit solutions of the basic boundary value problems of statics of the elastic mixture theory for an annulus. (English summary) **2005a:74035**
Bitsadze, L. The basic boundary value problems of statics of the theory of elastic transversally isotropic mixtures for an infinite plane with an elliptic hole. (English and Georgian summaries) **2005e:74019**
Chan, Youn-Sha (*with* Gray, L. J.; Kaplan, Theodore; Paulino, Glaucio H.) Green's function for a two-dimensional exponentially graded elastic medium. (English summary) **2005b:74045**
Cowin, S. C. *see* **Fraldi, M., 2005g:74046**
Crowdy, Darren (*with* Fokas, A. S.) Explicit integral solutions for the plane elastostatic semi-strip. (English summary) **2005c:74027**
Fokas, A. S. *see* **Crowdy, Darren, 2005c:74027**
Fraldi, M. (*with* Cowin, S. C.) Inhomogeneous elastostatic problem solutions constructed from stress-associated homogeneous solutions. (English summary) **2005g:74046**
Gray, L. J. *see* **Chan, Youn-Sha et al., 2005b:74045**
Guan, Qun (*with* He, Shun Rong) General solution of the plane problem in piezoelectric, piezomagnetic and elastic media. (Chinese. English and Chinese summaries)
He, Shun Rong *see* **Guan, Qun**
Kaplan, Theodore *see* **Chan, Youn-Sha et al., 2005b:74045**
Lin, Ru-Li (*with* Ma, Chien-Ching) Theoretical full-field analysis of dissimilar isotropic composite annular wedges under anti-plane deformations. (English summary) **2005c:74028**
Ma, Chien-Ching *see* **Lin, Ru-Li, 2005c:74028**
Nicotra, V. (*with* Tiero, A.) Exact solutions for linearly electroelastic plate-like bodies. (English summary) **2005g:74047**
Paulino, Glaucio H. *see* **Chan, Youn-Sha et al., 2005b:74045**
Popov, G. Ya. On new transformations of resolving equations in the theory of elasticity and new integral transformations and their application to boundary value problems in mechanics. (Russian. English and Ukrainian summaries) **2005b:74046**
Svanadze, K. Effective solution of the mixed boundary value problem for an infinite isotropic plane with an elliptical hole. (Georgian summary)
Tiero, A. *see* **Nicotra, V., 2005g:74047**
Wang, Xu Eshelby's problem of an inclusion of arbitrary shape in a decagonal quasicrystalline plane or half-plane. (English summary) **2005e:74020**

Items with secondary classifications in 74G05

Aghili, Arman Griffith crack and mixed boundary value problem of the first kind. (English summary)
Akinola, A. P. On complex potentials for finite plane deformation of a transversely isotropic material. (English summary) **2005g:74016**
Borodachev, N. M. On a representation of the solution of equations in the linear theory of elasticity. (Russian. English, Russian and Ukrainian summaries) **2005m:74006**
Cai, Cheng Wu (*with* Liu, Ji Ke; Chan, Hon Chuen) ★ Exact analysis of bi-periodic structures. **2005k:74057**
Cai, Hongxue *see* **Chadwick, Richard S. et al., 2005a:74014**
Chadwick, Richard S. (*with* Shoelson, Brett; Cai, Hongxue) Surface Green's functions for an incompressible, transversely isotropic elastic half-space. (English summary) **2005a:74014**
Chan, Hon Chuen *see* **Cai, Cheng Wu et al., 2005k:74057**
Chudinovich, Igor (*with* Constanda, Christian; Dolberg, Olga) On the Laplace transform of a matrix of fundamental solutions for thermoelastic plates. (English summary) **2005k:74023**
Constanda, Christian *see* **Chudinovich, Igor et al., 2005k:74023**
Dickey, R. W. Equilibrium states of inextensible membranes under gravity. (English summary) **2005m:74057**
Dolberg, Olga *see* **Chudinovich, Igor et al., 2005k:74023**
Duan, H. L. (*with* Wang, Jianxiang; Huang, Zhu Ping; Zhong, Y.) Stress fields of a spheroidal inhomogeneity with an interphase in an infinite medium under remote loadings. (English summary) **2005k:74001**
England, A. H. Complex variable solutions for an inhomogeneous thick plate containing a hole or a crack. (English summary) **2005g:74075**
Ezzat, Magdy A. Fundamental solution in generalized magneto-thermoelasticity with two relaxation times for perfect conductor cylindrical region. (English summary)
Gao, Yang[4] *see* **Zhao, Yingtao et al., 2005f:74023**
Guz′, A. N. (*with* Guz′, I. A.) Mixed two-dimensional problems of the linearized mechanics of deformable bodies. Exact solutions. (Russian. English and Ukrainian summaries) **2005k:74008**
Guz′, I. A. *see* **Guz′, A. N., 2005k:74008**
Horgan, Cornelius O. (*with* Murphy, Jeremiah G.) Lie group analysis and plane strain bending of crylindrical sectors for compressible nonlinearly elastic materials. (English summary) **2005i:74009**
— (*with* Murphy, Jeremiah G.) A Lie group analysis of the axisymmetric equations of finite elastostatics for compressible materials. (English summary) **2005m:74010**
Huang, Zhu Ping *see* **Duan, H. L. et al., 2005k:74001**
Ieşan, D. Second-order effects in the torsion of elastic materials with voids. (English summary) **2005m:74011**
Janjgava, R. General solutions of stretch-press and bending equations of binary mixtures using I. Vekua's method for $N = 1$ approximation. (Georgian summary) **2005e:74034**
Kirkinis, Eleftherios (*with* Tsai, Hungyu) Generalized azimuthal shear deformations in compressible isotropic elastic materials. (English summary) **2005m:74012**
Koĭsin, V. E. *see* **Skvortsov, V. R. et al., 2005m:74059**
Krakhmalev, S. Yu. *see* **Skvortsov, V. R. et al., 2005m:74059**
Liu, Ji Ke *see* **Cai, Cheng Wu et al., 2005k:74057**
Lychëv, S. A. A coupled dynamic problem of thermoelasticity for a finite cylinder. (Russian. English and Russian summaries) **2005i:74023**
Melnikov, Yu. A. Influence functions of a point force for multiply connected Kirchhoff plates. (English summary) **2005b:74079**
Murphy, Jeremiah G. *see* **Horgan, Cornelius O., 2005i:74009** *and* **2005m:74010**
Popovich, V. S. (*with* Tokoviĭ, Yu. V.) Construction of a solution to a plane problem of thermoelasticity for a thermosensitive strip. (Ukrainian. English, Russian and Ukrainian summaries)
Shoelson, Brett *see* **Chadwick, Richard S. et al., 2005a:74014**
Skvortsov, V. R. (*with* Koĭsin, V. E.; Krakhmalev, S. Yu.) Dynamic interaction of a rigid body with a plate on an elastic layer and a half-space. (Russian. Russian summary) **2005m:74059**
Starostin, E. L. Symmetric equilibria of a thin elastic rod with self-contacts. (English summary) **2005d:74017**
Tokoviĭ, Yu. V. *see* **Popovich, V. S.**
Tsai, Hungyu *see* **Kirkinis, Eleftherios, 2005m:74012**
Ulĭtko, A. F. *see* **Zhupanska, O. I.**
Wang, Jianxiang *see* **Duan, H. L. et al., 2005k:74001**
Wang, Minzhong *see* **Zhao, Yingtao et al., 2005f:74023**
Wróblewski, Adam T-complete functions for thin and thick plates on elastic foundation. (English summary)
Yang, Fuqian General solutions of a penny-shaped crack in a piezoelectric material under opening mode loading. (English summary)
Zenkour, A. M. Bending of a sector-shaped annular plate with continuous thickness variation along the radial direction. (English summary) **2005a:74061**
Zhao, Yingtao (*with* Gao, Yang[4]; Wang, Minzhong) The ellipsoidal inhomogeneity with imperfect interface. (English and Chinese summaries) **2005f:74023**
Zhong, Y. *see* **Duan, H. L. et al., 2005k:74001**
Zhupanska, O. I. (*with* Ulĭtko, A. F.) Contact with friction of a rigid cylinder with an elastic half-space. (English summary)

74G10 Analytic approximation of solutions (perturbation methods, asymptotic methods, series, etc.)

Agalovyan, L. A. (*with* Asratyan, M. G.; Gevorkyan, R. S.) On a nonclassical mixed boundary value problem in the theory of elasticity for an anisotropic strip of variable width. (Russian. Russian and Armenian summaries) **2005m:74033**
Asratyan, M. G. *see* **Agalovyan, L. A. et al., 2005m:74033**
Dhaliwal, R. S. *see* **Singh, Brij M. et al.**

Gevorkyan, R. S. *see* **Agalovyan, L. A. et al., 2005m:74033**
Mutafyan, M. N. (*with* Sarkisyan, S. O.) Asymptotic solutions of boundary value problems for a thin rectangle according to the asymmetric theory of elasticity. (Russian. Russian and Armenian summaries)
Pichugina, E. A. On the asymptotic behavior of a locally periodic thin composite plate. (Russian)
Rand, Omri (*with* Rovenskiĭ, Vladimir) ★ Analytical methods in anisotropic elasticity. **2005f:74032**
Rokne, J. *see* **Singh, Brij M. et al.**
Rovenskiĭ, Vladimir *see* **Rand, Omri, 2005f:74032**
Sarkisyan, S. O. *see* **Mutafyan, M. N.**
Singh, Brij M. (*with* Rokne, J.; Dhaliwal, R. S.) Closed-form solutions for a rectangular layer with central crack under anti-plane shear stress. (English summary)

Items with secondary classifications in 74G10

Åslund, Jan Asymptotic analysis of adhesively bonded nonlinearly elastic plates. (English summary) **2005k:74053**
Auricchio, Ferdinando (*with* Lovadina, Carlo; Madureira, Alexandre L.) An asymptotically optimal model for isotropic heterogeneous linearly elastic plates. (English summary) **2005i:74051**
Beirão da Veiga, L. Asymptotic study of the solution for pinched cylindrical shells. (English summary) **2005i:74055**
Blanc, Xavier (*with* Le Bris, Claude) Définition d'énergies d'interfaces à partir de modèles atomiques. (English and French summaries) [A definition of interface energies using atomistic models] **2005m:74003**
Ciarlet, Philippe G. Mathematical modelling of linearly elastic shells. (English summary) **2005d:74020**
Cui, Jun Zhi *see* **Feng, Yong-Ping, 2005g:74037**
Faou, Erwan Multiscale expansions for linear clamped elliptic shells. (English summary) **2005m:74061**
Faugeras, Blaise (*with* Pousin, Jérôme) Variational asymptotic derivation of an elastic model arising from the problem of 3D automatic segmentation of cardiac images. (English summary) **2005h:74042**
Feng, Yong-Ping (*with* Cui, Jun Zhi) Multi-scale analysis and FE computation for the structure of composite materials with small periodic configuration under condition of coupled thermoelasticity. (English summary) **2005g:74037**
Figueiredo, Isabel (*with* Trabucho, Luis) Asymptotic model of a nonlinear adaptive elastic rod. (English summary) **2005g:74076**
Griso, Georges Comportement asymptotique d'une grue. (English and French summaries) [Asymptotic behavior of a crane] **2005a:74054**
— Asymptotic behaviour of curved rods by the unfolding method. **2005h:74036**
Khubezhty, Sh. S. On the approximate computation of Cauchy-type integrals. (Russian. Russian summary) **2005d:65035**
Ladevèze, Pierre Multiscale modelling and computational strategies for composites. (English summary)
Lange, Charles G. (*with* Wan, Frederic Y. M.) Bifurcation analysis of shallow spherical shells with meridionally nonuniform loading. (English summary) **2005h:74043**
Le Bris, Claude *see* **Blanc, Xavier, 2005m:74003**
Lovadina, Carlo *see* **Auricchio, Ferdinando et al., 2005i:74051**
Madani, Kamyar *see* **Marigo, Jean-Jacques, 2005k:74051**
Madureira, Alexandre L. *see* **Auricchio, Ferdinando et al., 2005i:74051**
Marigo, Jean-Jacques (*with* Madani, Kamyar) The influence of the type of loading on the asymptotic behavior of slender elastic rings. (English summary) **2005k:74051**
Mishuris, G. Imperfect transmission conditions for a thin weakly compressible interface. 2D problems. (English summary) **2005b:74033**
Mora, Maria Giovanna (*with* Müller, Stefan[1]) A nonlinear model for inextensible rods as a low energy Γ-limit of three-dimensional nonlinear elasticity. (English and French summaries) **2005b:74073**
Müller, Stefan[1] *see* **Mora, Maria Giovanna, 2005b:74073**
Nazarov, Sergei A. Estimates for the accuracy of modeling boundary value problems on the junction of domains with different limit dimensions. (Russian. Russian summary) **2005i:35060**
Paumier, Jean-Claude Contact unilatéral des structures minces: modélisation, calcul et applications. (French summary) [Unilateral contact of thin structures: modelling, calculations and applications] **2005b:74091**
Pousin, Jérôme *see* **Faugeras, Blaise, 2005h:74042**
Roquefort, Anne Une simplification de l'analyse asymptotique formelle des coques non linéairement élastiques. (English summary) [A simplification of the formal asymptotic analysis of nonlinearly elastic shells] **2005e:74037**
Timergaliev, S. N. The Bubnov-Galerkin method for the approximate solution of boundary value problems of the nonlinear theory of thin shells. (Russian. Russian summary) **2005b:74081**
Trabucho, Luis *see* **Figueiredo, Isabel, 2005g:74076**
Wan, Frederic Y. M. *see* **Lange, Charles G., 2005h:74043**

74G15 Numerical approximation of solutions

Ascenzi, Oscar (*with* Pareschi, Lorenzo; Segala, Fausto) Convergence of a quadrature formula for the approximation of stress intensity factor for planar cracks. (English summary) **2005g:74048**
Atluri, Satya N. *see* **Sladek, J. et al.**
Barboteu, Mikaël Construction du préconditionneur Neumann-Neumann de décomposition de domaine de niveau 2 pour des problèmes élastodynamiques en grandes déformations. (English and French summaries) [Construction of the balancing domain decomposition preconditioner for elastodynamic finite deformation problems]
Bauman, Paul *see* **Oden, J. Tinsley et al., 2005m:74034**
Bécache, Eliane (*with* Joly, Patrick; Scarella, Gilles) A fictitious domain method for a unilateral contact problem. (*see* **2005b:00020**)
Boroomand, B. (*with* Tabatabaei, A. A.; Oñate, Eugenio) Simple modifications for stabilization of the finite point method. (English summary) **2005k:74033**
Chambon, René Small strain vs large strain formulation in computational mechanics. (*see* **2005b:74003**)
Dumont, Serge (*with* Lebon, Frédéric) Wavelet-Galerkin method for plane elastostatics. (English and Portuguese summaries) **2005f:74033**
Goldfeld, P. Balancing Neumann-Neumann for (in)compressible linear elasticity and (generalized) Stokes—parallel implementation. (*see* **2005f:65003**)
Griebel, Michael (*with* Oeltz, Daniel; Schweitzer, Marc Alexander) An algebraic multigrid method for linear elasticity. (English summary) **2005a:74036**
Joly, Patrick *see* **Bécache, Eliane et al., (2005b:00020)**
Klawonn, Axel (*with* Starke, Gerhard) A preconditioner for the equations of linear elasticity discretized by the PEERS element. (English summary) **2005a:74037**
Ladevèze, Pierre (*with* Pelle, Jean-Pierre) ★ Mastering calculations in linear and nonlinear mechanics. **2005k:74034**
Lebon, Frédéric *see* **Dumont, Serge, 2005f:74033**
Lew, Adrian (*with* Neff, Patrizio; Sulsky, Deborah; Ortiz, Michael) Optimal BV estimates for a discontinuous Galerkin method for linear elasticity. **2005f:74034**
Mair, Michael (*with* Wohlmuth, Barbara I.) A domain decomposition method for domains with holes using a complementary decomposition. (English summary) **2005f:74035**
Mosler, J. On the modeling of highly localized deformations induced by material failure: the strong discontinuity approach. (English summary) **2005g:74049**
Neff, Patrizio *see* **Lew, Adrian et al., 2005f:74034**
Nie, Yu Feng (*with* Yin, Yun Hui; Zhou, Tian Xiao) Optimization of a combined hybrid scheme with 5-parameter stress mode. (Chinese. English summary)
Oden, J. Tinsley (*with* Prudhomme, S.; Bauman, Paul) On the extension of goal-oriented error estimation and hierarchical modeling to discrete lattice models. (English summary) **2005m:74034**
Oeltz, Daniel *see* **Griebel, Michael et al., 2005a:74036**
Oñate, Eugenio *see* **Boroomand, B. et al., 2005k:74033**
Ortiz, Michael *see* **Lew, Adrian et al., 2005f:74034**
Pareschi, Lorenzo *see* **Ascenzi, Oscar et al., 2005g:74048**
Pelle, Jean-Pierre *see* **Ladevèze, Pierre, 2005k:74034**
Pop, Nicolae On the convergence of the solution of the quasi-static contact problems with friction using the Uzawa type algorithm. (English summary) **2005h:74022**
Prudhomme, S. *see* **Oden, J. Tinsley et al., 2005m:74034**
Sabelfeld, Karl K. (*with* Shalimova, I. A.) Decentered random walk on spheres for static elasticity problems. (English summary) (*see* **2005i:65006**)
Scarella, Gilles *see* **Bécache, Eliane et al., (2005b:00020)**
Schweitzer, Marc Alexander *see* **Griebel, Michael et al., 2005a:74036**
Segala, Fausto *see* **Ascenzi, Oscar et al., 2005g:74048**
Shalimova, I. A. *see* **Sabelfeld, Karl K., (2005i:65006)**
Sladek, J. (*with* Sladek, Valdimir; Atluri, Satya N.) Meshless local Petrov-Galerkin method in anisotropic elasticity. (English summary)
Sladek, Valdimir *see* **Sladek, J. et al.**
Starke, Gerhard *see* **Klawonn, Axel, 2005a:74037**
(Strouboulis, Theofanis) *see* **Ladevèze, Pierre, 2005k:74034**
Sulsky, Deborah *see* **Lew, Adrian et al., 2005f:74034**
Tabatabaei, A. A. *see* **Boroomand, B. et al., 2005k:74033**
Turteltaub, Matías *see* **Turteltaub, Sergio, 2005b:74047**
Turteltaub, Sergio (*with* Turteltaub, Matías) Integral representations in elastostatics and their application to an alternative boundary element method. (English summary) **2005b:74047**
Wohlmuth, Barbara I. *see* **Mair, Michael, 2005f:74035**
Yin, Yun Hui *see* **Nie, Yu Feng et al.**
Zhou, Tian Xiao *see* **Nie, Yu Feng et al.**

Items with secondary classifications in 74G15

Abeyratne, M. K. (*with* Freeden, W.; Mayer, Carsten) Multiscale deformation analysis by Cauchy-Navier wavelets. **2005d:74022**
Alart, Pierre *see* **Renouf, Mathieu et al.**
Alekseev, A. S. (*with* Tsetsokho, V. A.; Belonosov, A. S.) Some algorithms for solving direct problems for equations of vibroseismics and geodesy. (English summary) **2005j:86020**
Allaire, Grégoire (*with* Jouve, François; Toader, Anca-Maria) Structural optimization by the level-set method. (English summary) **2005d:49058**
— (*with* Jouve, François; Toader, Anca-Maria) Structural optimization using sensitivity analysis and a level-set method. (English summary) **2005a:74079**
Babuška, Ivo (*with* Sauter, Stefan) Algebraic algorithms for the analysis of mechanical trusses. (English summary) **2005a:74066**
Baeza, L. *see* **Tarancón, José Enrique et al.**
Bartels, Sören (*with* Carstensen, Carsten; Hackl, K.; Hoppe, U.) Effective relaxation for microstructure simulations: algorithms and applications. (English summary) **2005j:74046**
— Linear convergence in the approximation of rank-one convex envelopes. (English summary) **2005k:65110**
Beirão da Veiga, L. Optimal error bounds for the MITC4 plate bending element. (English summary) **2005h:74058**
Belonosov, A. S. *see* **Alekseev, A. S. et al., 2005j:86020**
Ben Ameur, Hend (*with* Burger, Martin; Hackl, Benjamin) Level set methods for geometric inverse problems in linear elasticity. (English summary) **2005h:35353**
Ben Belgacem, Faker (*with* Chilton, Lawrence K.; Seshaiyer, Padmanabhan) Non-conforming computational methods for mixed elasticity problems. (English summary) **2005a:65125**
Bergheau, J.-M. *see* **Chamoret, D. et al.**
Blacker, D. J. A robust a posteriori error estimate for the Fortin-Soulie finite-element method. (English summary) **2005m:65244**
Bresch, Didier (*with* Koko, Jonas) An optimization-based domain decomposition method for nonlinear wall laws in coupled systems. (English summary) **2005i:65206**
Burger, Martin *see* **Ben Ameur, Hend et al., 2005h:35353**
Buryachenko, V. A. (*with* Pagano, N. J.) The multiscale analysis of multiple interacting

inclusions problem: finite number of interacting inclusions. (English summary) **2005h:74007**

Büttner, Jörg (*with* Simeon, Bernd) Time integration of the dual problem of elastoplasticity by Runge-Kutta methods. (English summary) **2005e:65090**

Cai, Zhiqiang (*with* Starke, Gerhard) First-order system least squares for the stress-displacement formulation: linear elasticity. (English summary) **2005e:65180**

Canet, J. Miquel *see* **Zalamea, F. et al., 2005d:74011**

Carstensen, Carsten (*with* Dolzmann, Georg) An a priori error estimate for finite element discretizations in nonlinear elasticity for polyconvex materials under small loads. (English summary) **2005b:74019**

— (*with* Maischak, Matthias; Praetorius, Dirk; Stephan, Ernst P.) Residual-based a posteriori error estimate for hypersingular equation on surfaces. (English summary) **2005c:65119**

— *see also* **Bartels, Sören et al., 2005j:74046**

Celiker, Fatila (*with* Cockburn, Bernardo; Güzey, Sukru; Kanapady, Ramdev; Soon, Sew-Chew; Stolarski, Henryk K.; Tamma, Kumar K.) Discontinuous Galerkin methods for Timoshenko beams. (English summary) **2005k:65242**

Chagneau, F. *see* **Le Dret, Hervé et al., 2005j:74005**

Chamoret, D. (*with* Saillard, P.; Rassineux, Alain; Bergheau, J.-M.) New smoothing procedures in contact mechanics. (English summary)

Chapko, Roman On the numerical solution of a boundary value problem in the plane elasticity for a double-connected domain. (English summary) **2005e:65212**

Chen, Long-Qing *see* **Yu, Peng et al., 2005m:74078**

Chen, Shao Chun *see* **Shi, Dong Yang et al., 2005m:74097**

Chilton, Lawrence K. *see* **Ben Belgacem, Faker et al., 2005a:65125**

Cockburn, Bernardo *see* **Celiker, Fatila et al., 2005k:65242**

Costabel, Martin (*with* Dauge, Monique; Yosibash, Zohar) A quasi-dual function method for extracting edge stress intensity functions. (English summary) **2005c:35068**

Crampton, A. *see* **Talbot, C. J., 2005m:65252**

Đặng Đình Áng (*with* Dang Duc Trong; Yamamoto, Masahiro) A Cauchy like problem in plane elasticity: regularization by quasi-reversibility with error estimates. (English summary) **2005b:35273**

Dang Duc Trong *see* **Đặng Đình Áng et al., 2005b:35273**

Dauge, Monique *see* **Costabel, Martin et al., 2005c:35068**

Davini, Cesare (*with* Paroni, Roberto) Generalized Hessian and external approximations in variational problems of second order. (English summary) **2005c:74029**

Dolzmann, Georg *see* **Carstensen, Carsten, 2005b:74019**

Du, Qiang *see* **Yu, Peng et al., 2005m:74078**

Dubois, Frédéric *see* **Renouf, Mathieu et al.**

Eck, Christof (*with* Wohlmuth, Barbara I.) Convergence of a contact-Neumann iteration for the solution of two-body contact problems. (English summary) **2005d:74025**

Flemisch, Bernd (*with* Puso, Michael A.; Wohlmuth, Barbara I.) A new dual mortar method for curved interfaces: 2D elasticity. (English summary) **2005m:74092**

Freeden, W. *see* **Abeyratne, M. K. et al., 2005d:74022**

Fuenmayor, F. J. *see* **Tarancón, José Enrique et al.**

Gaspar, Francisco J. (*with* Lisbona, Francisco J.; Oosterlee, Cornelis W.; Wienands, Roman) A systematic comparison of coupled and distributive smoothing in multigrid for the poroelasticity system. (English summary) **2005e:65196**

Gosselet, P. (*with* Rey, Christian) On a selective reuse of Krylov subspaces in Newton-Krylov approaches for nonlinear elasticity. (*see* **2005f:65003**)

Güzey, Sukru *see* **Celiker, Fatila et al., 2005k:65242**

Hackl, Benjamin *see* **Ben Ameur, Hend et al., 2005h:35353**

Hackl, K. *see* **Bartels, Sören et al., 2005j:74046**

Han, Weimin ★ A posteriori error analysis via duality theory. **2005k:65003**

Haslinger, Jaroslav (*with* Vlach, Oldřich) Signorini problem with a solution dependent coefficient of friction (model with given friction): approximation and numerical realization. (English summary) **2005m:74070**

Hintermüller, Michael (*with* Kovtunenko, V. A.; Kunisch, Karl) Generalized Newton methods for crack problems with nonpenetration condition. (English summary) **2005k:49090**

Hlaváček, Ivan Unilateral contact with Coulomb friction and uncertain input data. (English summary) **2005b:74088**

Hoppe, U. *see* **Bartels, Sören et al., 2005j:74046**

Hu, Shenyang *see* **Yu, Peng et al., 2005m:74078**

Huang, Jian Guo Numerical solution of the elastic body-plate problem by nonoverlapping domain decomposition type techniques. (English summary) **2005a:65149**

Iontcheva, Ana H. (*with* Vassilevski, Panayot S.) Monotone multigrid methods based on element agglomeration coarsening away from the contact boundary for the Signorini's problem. (English summary) **2005j:65165**

Jouve, François *see* **Allaire, Grégoire et al., 2005a:74079** *and* **2005d:49058**

Kanapady, Ramdev *see* **Celiker, Fatila et al., 2005k:65242**

Khludnev, A. M. *see* **Stepanov, V. D., 2005g:35125**

Kim, Sang Dong (*with* Shin, Byeong Chun; Kim, Seokchan; Woo, Gyungsoo) Discrete minus one norm least-squares for the stress formulation of linear elasticity with numerical results. (English summary) **2005h:65212**

Kim, Seokchan *see* **Kim, Sang Dong et al., 2005h:65212**

Koko, Jonas *see* **Bresch, Didier, 2005i:65206**

Kovtunenko, V. A. *see* **Hintermüller, Michael et al., 2005k:49090**

Krok, Józef An extended approach to error control in experimental and numerical data smoothing and evaluation using the meshless FDM. (*see* **2005f:74002**)

Kružík, Martin (*with* Otto, Felix) A phenomenological model for hysteresis in polycrystalline shape memory alloys. (English summary) **2005g:74095**

Kunisch, Karl *see* **Hintermüller, Michael et al., 2005k:49090**

Ladevèze, Pierre Multiscale modelling and computational strategies for composites. (English summary)

Larin, Maxim On multigrid eigensolver for linear elasticity problems. (English summary) (*see* **2005i:65006**)

Le Dret, Hervé (*with* Lewandowski, Roger; Priour, D.; Chagneau, F.) Numerical simulation of a cod end net. I. Equilibrium in a uniform flow. (English summary) **2005j:74005**

Legoll, Frédéric Numerical homogenization of nonlinear viscoplastic two-dimensional polycrystals. (English summary) **2005m:74084**

Lewandowski, Roger *see* **Le Dret, Hervé et al., 2005j:74005**

Lisbona, Francisco J. *see* **Gaspar, Francisco J. et al., 2005e:65196**

Lonsing, Marco (*with* Verfürth, Rüdiger) A posteriori error estimators for mixed finite element methods in linear elasticity. (English summary) **2005j:65144**

Lopez, Salvatore (*with* Otranto, E.) Evaluation of the fold line by asymptotic extrapolation for structural analysis. (English summary) **2005b:74048**

Mach, Jan Finite element analysis of free material optimization problem. (English summary) **2005d:74033**

Maischak, Matthias *see* **Carstensen, Carsten et al., 2005c:65119**

Mao, Shi Peng *see* **Shi, Dong Yang et al., 2005m:74097**

Mayer, Carsten *see* **Abeyratne, M. K. et al., 2005d:74022**

Michel, Jean-Claude (*with* Suquet, P.) Computational analysis of nonlinear composite structures using the nonuniform transformation field analysis. (English summary) **2005f:74024**

Mohammadi, S. ★ Discontinuum mechanics. **2005g:74104**

Mosler, J. Numerical analyses of discontinuous material bifurcation: strong and weak discontinuities. (English summary) **2005h:74015**

— On advanced solution strategies to overcome locking effects in strong discontinuity approaches. (English summary) **2005m:74088**

Mozolevskiĭ, I. E. (*with* Süli, Endre) A priori error analysis for the *hp*-version of the discontinuous Galerkin finite element method for the biharmonic equation. (English summary) **2005c:65106**

Myasnikov, V. P. (*with* Zaslavskiĭ, M. Yu.; Pergament, A. Kh.) Averaging algorithms for solving problems in the theory of elasticity on rectilinear grids that are not adapted to the structure of the medium. (Russian)

Nkemzi, Boniface On solution of Lamé equations in axisymmetric domains with conical points. (English summary) **2005g:35286**

Ohnimus, Stephan *see* **Stein, Erwin et al.**

Oller, S. *see* **Zalamea, F. et al., 2005d:74011**

Oosterlee, Cornelis W. *see* **Gaspar, Francisco J. et al., 2005e:65196**

Otranto, E. *see* **Lopez, Salvatore, 2005b:74048**

Otto, Felix *see* **Kružík, Martin, 2005g:74095**

Pagano, N. J. *see* **Buryachenko, V. A., 2005h:74007**

Paroni, Roberto *see* **Davini, Cesare, 2005c:74029**

Pavarino, Luca F. Domain decomposition methods and scientific computing applications. (English and Italian summaries) **2005j:65168**

Pergament, A. Kh. *see* **Myasnikov, V. P. et al.**

Praetorius, Dirk *see* **Carstensen, Carsten et al., 2005c:65119**

Priour, D. *see* **Le Dret, Hervé et al., 2005j:74005**

Puso, Michael A. *see* **Flemisch, Bernd et al., 2005m:74092**

Qi, He (*with* Wang, Lie-heng; Zheng, Wei-ying) On locking-free finite element schemes for three-dimensional elasticity. (English summary) **2005k:74077**

Rand, Omri (*with* Rovenskiĭ, Vladimir) ★ Analytical methods in anisotropic elasticity. **2005f:74032**

Rassineux, Alain *see* **Chamoret, D. et al.**

Renouf, Mathieu (*with* Dubois, Frédéric; Alart, Pierre) A parallel version of the non smooth contact dynamics algorithm applied to the simulation of granular media. (English summary)

Rey, Christian *see* **Gosselet, P., (2005f:65003)**

Rovenskiĭ, Vladimir *see* **Rand, Omri, 2005f:74032**

Rubin, M. B. Numerical solution procedures for nonlinear elastic curved rods using the theory of a Cosserat point. (English summary) **2005g:74074**

Rüter, Marcus *see* **Stein, Erwin et al.**

Rutka, V. (*with* Wiegmann, A.) A fast finite difference method for elliptic PDEs in domains with non-grid aligned boundaries with application to 3D linear elasticity. (English summary) (*see* **2005a:00022**)

Saillard, P. *see* **Chamoret, D. et al.**

Sarkis, Marcus V. Partition of unity coarse spaces: enhanced versions, discontinuous coefficients and applications to elasticity. (*see* **2005f:65003**)

Sauter, Stefan *see* **Babuška, Ivo, 2005a:74066**

Seshaiyer, Padmanabhan *see* **Ben Belgacem, Faker et al., 2005a:65125**

Shi, Dong Yang (*with* Mao, Shi Peng; Chen, Shao Chun) A class of anisotropic Crouzeix-Raviart type finite element approximations to the Signorini variational inequality problem. (Chinese. English and Chinese summaries) **2005m:74097**

Shin, Byeong Chun *see* **Kim, Sang Dong et al., 2005h:65212**

Simeon, Bernd *see* **Büttner, Jörg, 2005e:65090**

Soon, Sew-Chew *see* **Celiker, Fatila et al., 2005k:65242**

Sorokin, M. V. Solution of a mixed problem in the theory of elasticity by the Monte Carlo method. (Russian. Russian summary)

Starke, Gerhard *see* **Cai, Zhiqiang, 2005e:65180**

Stein, Erwin (*with* Rüter, Marcus; Ohnimus, Stephan) Adaptive finite element analysis and modelling of solids and structures. Findings, problems and trends. (English summary)

Steinbach, Olaf A robust boundary element method for nearly incompressible linear elasticity. (English summary) **2005a:65144**

Stepanov, V. D. (*with* Khludnev, A. M.) The fictitious domain method in the Signorini problem. (Russian) **2005g:35125**

Stephan, Ernst P. *see* **Carstensen, Carsten et al., 2005c:65119**

Stolarski, Henryk K. *see* **Celiker, Fatila et al., 2005k:65242**

Süli, Endre *see* **Mozolevskiĭ, I. E., 2005c:65106**

Suquet, P. *see* **Michel, Jean-Claude, 2005f:74024**

Talbot, C. J. (*with* Crampton, A.) Application of the pseudo-spectral method to 2D eigenvalue problems in elasticity. (English summary) **2005m:65252**

Tamma, Kumar K. *see* **Celiker, Fatila et al., 2005k:65242**

Tarancón, José Enrique (*with* Fuenmayor, F. J.; Baeza, L.) An a posteriori error estimator for the *p*- and *hp*-versions of the finite element method. (English summary)

Toader, Anca-Maria *see* **Allaire, Grégoire et al., 2005a:74079** *and* **2005d:49058**

Tsetsokho, V. A. *see* **Alekseev, A. S. et al., 2005j:86020**

Vassilevski, Panayot S. *see* **Iontcheva, Ana H., 2005j:65165**

Verfürth, Rüdiger *see* **Lonsing, Marco**, 2005j:65144
Vlach, Oldřich *see* **Haslinger, Jaroslav**, 2005m:74070
Wang, Lie-heng *see* **Qi, He et al.**, 2005k:74077
Wang, Michael Yu (*with* Zhou, Shiwei) Phase field: a variational method for structural topology optimization. (English summary) **2005h:74055**
Wiegmann, A. *see* **Rutka, V.**, (2005a:00022)
Wienands, Roman *see* **Gaspar, Francisco J. et al.**, 2005e:65196
Wohlmuth, Barbara I. *see* **Eck, Christof**, 2005d:74025 *and* **Flemisch, Bernd et al.**, 2005m:74092
Woo, Gyungsoo *see* **Kim, Sang Dong et al.**, 2005h:65212
Yamamoto, Masahiro *see* **Đặng Đình Áng et al.**, 2005b:35273
Yosibash, Zohar *see* **Costabel, Martin et al.**, 2005c:35068
Yu, Peng (*with* Hu, Shenyang; Chen, Long-Qing; Du, Qiang) An iterative-perturbation scheme for treating inhomogeneous elasticity in phase-field models. (English summary) **2005m:74078**
Zalamea, F. (*with* Canet, J. Miquel; Oller, S.) ★ Tratamiento numérico de materiales compuestos mediante la teoría de homogeneización. (Spanish) [Numerical treatment of composite materials by the homogenization method] **2005d:74011**
Zaslavskiĭ, M. Yu. *see* **Myasnikov, V. P. et al.**
Zheng, Wei-ying *see* **Qi, He et al.**, 2005k:74077
Zhou, Shiwei *see* **Wang, Michael Yu**, 2005h:74055

74G20 Local existence of solutions (near a given solution)

Items with secondary classifications in 74G20

Ciarlet, Patrick, Jr. *see* **Ciarlet, Philippe G.**, 2005g:74015
Ciarlet, Philippe G. (*with* Ciarlet, Patrick, Jr.) Another approach to linearized elasticity and Korn's inequality. (English and French summaries) **2005g:74015**
Oudaani, Jaouad *see* **Raïssouli, Mustapha**, 2005g:74018
Raïssouli, Mustapha (*with* Oudaani, Jaouad) Local existence, uniqueness and regularity of a special solution for a mixed problem in elasticity. (English and French summaries) **2005g:74018**

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Buchukuri, Tengiz (*with* Chkadua, Otar; Duduchava, Roland) Crack-type boundary value problems of electro-elasticity. (English summary) **2005e:74021**
Chkadua, Otar *see* **Buchukuri, Tengiz et al.**, 2005e:74021
Duduchava, Roland *see* **Buchukuri, Tengiz et al.**, 2005e:74021
Gachechiladze, Roland Exterior problems with friction in the couple-stress elasticity. (English and Georgian summaries) **2005i:74031**
— Interior and exterior problems of couple-stress and classical elastostatics with given friction. (English summary) **2005k:74035**
Khludnev, A. M. Invariant integrals in problems of a crack at the junction of an inhomogeneity and in contact problems. (Russian) **2005j:74018**

Items with secondary classifications in 74G25

Abeyratne, M. K. (*with* Freeden, W.; Mayer, Carsten) Multiscale deformation analysis by Cauchy-Navier wavelets. **2005d:74022**
Aleksandrov, Viktor Mikhaĭlovich (*with* Pozharskiĭ, D. A.) Three-dimensional contact problems taking friction and nonlinear roughness into account. (Russian. Russian summary) **2005c:74057**
Andrews, Kevin T. (*with* Chapman, L.; Fernández García, José Ramón; Fisackerly, M.; Shillor, Meir; Vanerian, L.; VanHouten, T.) A membrane in adhesive contact. (English summary) **2005g:74087**
Angelov, Todor A. (*with* Liolios, Asterios A.) On the two-step iterative method of solving frictional contact problems in elasticity. (English summary) **2005m:74068**
Avalishvili, G. *see* **Gordeziani, David**, 2005k:74055
Chapman, L. *see* **Andrews, Kevin T. et al.**, 2005g:74087
Chełmiński, Krzysztof On quasistatic inelastic models of gradient type with convex composite constitutive equations. (English summary) **2005a:74023**
Ciarlet, Philippe G. Mathematical modelling of linearly elastic shells. (English summary) **2005d:74020**
Ciobanu, Gh. Gr. (*with* Săndulescu, Gabriela) Existence results for the pure displacement problem of nonlinear elastostatics. **2005c:35279**
Đặng Đình Áng (*with* Khanh, Chu Duc; Yamamoto, Masahiro) A Cauchy like problem in plane elasticity: a moment theoretic approach. (English summary) **2005i:35262**
Dzhaiani, G. V. Theory of cusped Euler-Bernoulli beams and Kirchhoff-Love plates. **2005d:74015**
Essoufi, El-Hassan *see* **Sofonea, Mircea**, 2005g:74090
Fernández García, José Ramón *see* **Andrews, Kevin T. et al.**, 2005g:74087
Fisackerly, M. *see* **Andrews, Kevin T. et al.**, 2005g:74087
Freeden, W. *see* **Abeyratne, M. K. et al.**, 2005d:74022
Gordeziani, David (*with* Avalishvili, G.) On a dynamical hierarchical model for prismatic shells in the theory of elastic mixtures. (English summary) **2005k:74055**
Healey, Timothy J. (*with* Montes-Pizarro, Errol L.) Global bifurcation in nonlinear elasticity with an application to barrelling states of cylindrical columns. (English summary) **2005b:74021**
Hoarau-Mantel, Thierry-Vincent *see* **Sofonea, Mircea et al.**, 2005c:74060
Ieşan, D. Second-order effects in the torsion of elastic materials with voids. (English summary) **2005m:74011**
Khanh, Chu Duc *see* **Đặng Đình Áng et al.**, 2005i:35262
Lebedev, Leonid P. (*with* Neĭmark, A. B.) An existence theorem for a shallow nonlinear shell with an obstacle. (Russian) **2005m:74062**
Liolios, Asterios A. *see* **Angelov, Todor A.**, 2005m:74068
Mardare, Sorin Inequality of Korn's type on compact surfaces without boundary. (English summary) **2005b:74080**
Mareno, Anita Uniqueness of equilibrium solutions in second-order gradient nonlinear elasticity. (English summary) **2005d:74003**
Mayer, Carsten *see* **Abeyratne, M. K. et al.**, 2005d:74022
Merouani, Boubakeur *see* **Selmani, Mohamed et al.**, 2005k:74061
Mitric, R. (*with* Schiavone, P.) Integral solution of a problem with non-standard boundary conditions in an enhanced theory of bending of elastic plates. (English summary) **2005i:74053**
Montes-Pizarro, Errol L. *see* **Healey, Timothy J.**, 2005b:74021
Neĭmark, A. B. *see* **Lebedev, Leonid P.**, 2005m:74062
Pozharskiĭ, D. A. *see* **Aleksandrov, Viktor Mikhaĭlovich**, 2005c:74057
Rodríguez-Arós, A. *see* **Sofonea, Mircea et al.**, 2005c:74060
Said, Said Mohammed Study of the adjoin problem controlled by the system of Lamé affected by weights in a polygon. (English summary) [Study of the adjoint problem controlled by the system of Lamé affected by weights in a polygon]
Săndulescu, Gabriela *see* **Ciobanu, Gh. Gr.**, 2005c:35279
Schiavone, P. *see* **Mitric, R.**, 2005i:74053
Selmani, Lynda *see* **Selmani, Mohamed et al.**, 2005k:74061
Selmani, Mohamed (*with* Merouani, Boubakeur; Selmani, Lynda) Analysis of a class of frictional contact problems for the Bingham fluid. (English summary) **2005k:74061**
Shillor, Meir *see* **Andrews, Kevin T. et al.**, 2005g:74087
Sofonea, Mircea (*with* Hoarau-Mantel, Thierry-Vincent; Viaño Rey, Juan M.; Rodríguez-Arós, A.) Creep formulation of a quasistatic frictional contact problem. (English summary) **2005c:74060**
— (*with* Essoufi, El-Hassan) A piezoelectric contact problem with slip dependent coefficient of friction. (English and Lithuanian summaries) **2005g:74090**
Svanadze, K. Investigation of the first and the second exterior plane boundary value problems of steady state oscillations in the linear theory of elastic mixtures. (English summary) **2005b:74044**
Vanerian, L. *see* **Andrews, Kevin T. et al.**, 2005g:74087
VanHouten, T. *see* **Andrews, Kevin T. et al.**, 2005g:74087
Viaño Rey, Juan M. *see* **Sofonea, Mircea et al.**, 2005c:74060
Yamamoto, Masahiro *see* **Đặng Đình Áng et al.**, 2005i:35262
Yin, Wan-Lee Two-dimensional piezoelectricity. I. Eigensolutions of nondegenerate and degenerate materials. (English summary) **2005j:74016**
— Two-dimensional piezoelectricity. II. General solution, Green's function and interface cracks. (English summary) **2005j:74017**

74G30 Uniqueness of solutions

Items with secondary classifications in 74G30

Abeyratne, M. K. (*with* Freeden, W.; Mayer, Carsten) Multiscale deformation analysis by Cauchy-Navier wavelets. **2005d:74022**
Aleksandrov, Viktor Mikhaĭlovich (*with* Pozharskiĭ, D. A.) Three-dimensional contact problems taking friction and nonlinear roughness into account. (Russian. Russian summary) **2005c:74057**
Andrews, Kevin T. (*with* Chapman, L.; Fernández García, José Ramón; Fisackerly, M.; Shillor, Meir; Vanerian, L.; VanHouten, T.) A membrane in adhesive contact. (English summary) **2005g:74087**
Angelov, Todor A. (*with* Liolios, Asterios A.) On the two-step iterative method of solving frictional contact problems in elasticity. (English summary) **2005m:74068**
Avalishvili, G. *see* **Gordeziani, David**, 2005k:74055
Borrelli, Alessandra (*with* Horgan, Cornelius O.; Patria, M. Cristina) Exponential decay of end effects in anti-plane shear for functionally graded piezoelectric materials. (English summary) **2005k:74032**
Chapman, L. *see* **Andrews, Kevin T. et al.**, 2005g:74087
Ciarlet, Philippe G. Mathematical modelling of linearly elastic shells. (English summary) **2005d:74020**
Essoufi, El-Hassan *see* **Sofonea, Mircea**, 2005g:74090
Fernández García, José Ramón *see* **Andrews, Kevin T. et al.**, 2005g:74087
Fisackerly, M. *see* **Andrews, Kevin T. et al.**, 2005g:74087
Freeden, W. *see* **Abeyratne, M. K. et al.**, 2005d:74022
Gachechiladze, Roland Exterior problems with friction in the couple-stress elasticity (English and Georgian summaries) **2005i:74031**
— Interior and exterior problems of couple-stress and classical elastostatics with given friction. (English summary) **2005k:74035**
Gordeziani, David (*with* Avalishvili, G.) On a dynamical hierarchical model for prismatic shells in the theory of elastic mixtures. (English summary) **2005k:74055**
Hassani, Riad (*with* Hild, Patrick; Ionescu, Ioan R.) Sufficient conditions of non-uniqueness for the Coulomb friction problem. (English summary) **2005a:74070**
Hild, Patrick *see* **Hassani, Riad et al.**, 2005a:74070
Horgan, Cornelius O. *see* **Borrelli, Alessandra et al.**, 2005k:74032
Ionescu, Ioan R. *see* **Hassani, Riad et al.**, 2005a:74070
Lin, Ching-Lung Strong unique continuation for an elasticity system with residual stress. (English summary) **2005f:35033**
Liolios, Asterios A. *see* **Angelov, Todor A.**, 2005m:74068
Mardare, Sorin Inequality of Korn's type on compact surfaces without boundary. (English summary) **2005b:74080**
Mayer, Carsten *see* **Abeyratne, M. K. et al.**, 2005d:74022
Merouani, Boubakeur *see* **Selmani, Mohamed et al.**, 2005k:74061
Mitric, R. (*with* Schiavone, P.) Integral solution of a problem with non-standard boundary conditions in an enhanced theory of bending of elastic plates. (English summary) **2005i:74053**
Patria, M. Cristina *see* **Borrelli, Alessandra et al.**, 2005k:74032
Pozharskiĭ, D. A. *see* **Aleksandrov, Viktor Mikhaĭlovich**, 2005c:74057
Schiavone, P. *see* **Mitric, R.**, 2005i:74053
Selmani, Lynda *see* **Selmani, Mohamed et al.**, 2005k:74061
Selmani, Mohamed (*with* Merouani, Boubakeur; Selmani, Lynda) Analysis of a class of frictional contact problems for the Bingham fluid. (English summary) **2005k:74061**
Shillor, Meir *see* **Andrews, Kevin T. et al.**, 2005g:74087
Sofonea, Mircea (*with* Essoufi, El-Hassan) A piezoelectric contact problem with slip dependent coefficient of friction. (English and Lithuanian summaries) **2005g:74090**

Svanadze, K. Investigation of the first and the second exterior plane boundary value problems of steady state oscillations in the linear theory of elastic mixtures. (English summary) **2005b:74044**
Timergaliev, S. N. On the uniqueness of the solution of boundary value problems of the nonlinear theory of thin shells. (Russian) **2005a:74065**
Vanerian, L. *see* **Andrews, Kevin T. et al., 2005g:74087**
VanHouten, T. *see* **Andrews, Kevin T. et al., 2005g:74087**

74G35 Multiplicity of solutions

Items with secondary classifications in 74G35

Hild, Patrick (*with* Sakki, Nour-Dine) On solution multiplicity in friction problems with normal compliance. (English summary) **2005f:74062**
Menéndez-Conde Lara, Federico Eigenfunction expansions and spectral projections for isotropic elasticity outside an obstacle. (English summary) **2005i:35204**
Sakki, Nour-Dine *see* **Hild, Patrick, 2005f:74062**

74G40 Regularity of solutions

Items with secondary classifications in 74G40

Bacuta, Constantin (*with* Bramble, James H.) Regularity estimates for solutions of the equations of linear elasticity in convex plane polygonal domains. (English summary) **2005d:35049**
Benseridi, H. (*with* Merouani, Boubakeur) Regularity of the solution of a nonlinear boundary value problem governed by lame operator in an irregular domain. (English summary)
Bojarski, Jarosław L. Regularity of solutions in plasticity. I. Continuum. (English summary) **2005c:74010**
Bramble, James H. *see* **Bacuta, Constantin, 2005d:35049**
Carozza, Menita (*with* Passarelli di Napoli, Antonia) Partial regularity of local minimizers of quasiconvex integrals with sub-quadratic growth. (English summary) **2005a:49072**
Dzhaiani, G. V. Bending of a cusped plate on an elastic foundation. (English summary) **2005j:74038**
Koshelev, A. I. Regularity up to the boundary of stresses in the linear theory of elasticity. (Russian. Russian summary) **2005g:35079**
Merouani, Boubakeur *see* **Benseridi, H.**
Oudaani, Jaouad *see* **Raïssouli, Mustapha, 2005g:74018**
Passarelli di Napoli, Antonia *see* **Carozza, Menita, 2005a:49072**
Raïssouli, Mustapha (*with* Oudaani, Jaouad) Local existence, uniqueness and regularity of a special solution for a mixed problem in elasticity. (English and French summaries) **2005g:74018**
Székelyhidi, László, Jr. The regularity of critical points of polyconvex functionals. (English summary) **2005c:49076**

74G50 Saint-Venant's principle

Chiriță, Stan On some exponential decay estimates for porous elastic cylinders. (English summary) **2005g:74050**
Leseduarte, M. C. (*with* Quintanilla, R.) Saint-Venant decay rates for a non-homogeneous isotropic mixture of elastic solids in anti-plane shear. (English summary) **2005j:74019**
Quintanilla, R. *see* **Leseduarte, M. C., 2005j:74019**
Revenko, V. P. Construction of a solution to a plane problem of elasticity theory for a rectangular plate by the method of integral moments. (Ukrainian. English summary) **2005i:74032**

Items with secondary classifications in 74G50

Babenkova, E. (*with* Kaplunov, Yu. D.) Low-frequency decay conditions for a semi-infinite elastic strip. (English summary) **2005b:74057**
— (*with* Kaplunov, Yu. D.) Radiation conditions for a semi-infinite elastic strip. (English summary) **2005m:74039**
Borrelli, Alessandra (*with* Horgan, Cornelius O.; Patria, M. Cristina) Exponential decay of end effects in anti-plane shear for functionally graded piezoelectric materials. (English summary) **2005k:74032**
Flavin, J. N. (*with* Gleeson, B.) Decay and other estimates for an annular elastic cylinder in an axisymmetric state of stress. (English summary) **2005i:74007**
Gleeson, B. *see* **Flavin, J. N., 2005i:74007**
Horgan, Cornelius O. *see* **Borrelli, Alessandra et al., 2005k:74032**
Kaplunov, Yu. D. *see* **Babenkova, E., 2005b:74057** *and* **2005m:74039**
Ladevèze, Pierre The exact theory of plate bending. (English summary) **2005a:74059**
Patria, M. Cristina *see* **Borrelli, Alessandra et al., 2005k:74032**

74G55 Qualitative behavior of solutions

Items with secondary classifications in 74G55

Chiriță, Stan Further results on the spatial behaviour in linear elastodynamics. (English summary) **2005m:74007**

74G60 Bifurcation and buckling

Alart, Pierre (*with* Pagano, S.) DC solutions of postbuckling problems. (English summary) **2005f:74036**
Awrejcewicz, Jan *see* **Krys'ko, V. A. et al., 2005m:74035**
Boudi, M. *see* **Boutyour, E. H. et al.**
Boutyour, E. H. (*with* Zahrouni, Hamid; Potier-Ferry, Michel; Boudi, M.) Asymptotic-numerical method for buckling analysis of shell structures with large rotations. (English summary)
Bradford, Mark Andrew *see* **Pi, Yong-Lin**
Coman, Ciprian D. Secondary bifurcations and localisation in a three-dimensional buckling model. (English summary) **2005f:74037**
Frey, Erwin *see* **Hallatschek, Oskar et al., 2005i:74033**
Hallatschek, Oskar (*with* Frey, Erwin; Kroy, Klaus) Overdamped stress relaxation in buckled rods. (English summary) **2005i:74033**
Hou, Jinhua *see* **Lu, Hexiang et al., 2005k:74036**
Ikeda, Kiyohiro (*with* Ohsaki, Makoto; Kanno, Yoshihiro) Imperfection sensitivity of hilltop branching points of systems with dihedral group symmetry. (English summary) **2005j:74020**
— *see also* **Saiki, Isao et al., 2005m:74036**
Kanno, Yoshihiro *see* **Ikeda, Kiyohiro et al., 2005j:74020**
Komarov, S. A. *see* **Krys'ko, V. A. et al., 2005m:74035**
Kroy, Klaus *see* **Hallatschek, Oskar et al., 2005i:74033**
Krys'ko, V. A. (*with* Awrejcewicz, Jan; Komarov, S. A.) Nonlinear deformations of spherical panels subjected to transversal load action. (English summary) **2005m:74035**
Lastenko, Mikhail S. (*with* Zubov, Leonid M.) A model of neck formation on a rod under tension. (English summary) **2005a:74038**
Lopez, Salvatore (*with* Otranto, E.) Evaluation of the fold line by asymptotic extrapolation for structural analysis. (English summary) **2005b:74048**
Lu, Hexiang (*with* Hou, Jinhua; Williams, F. W.) Calculation of critical buckling loads for finite length externally constrained thin circular cylinders. (English summary) **2005k:74036**
Murota, Kazuo *see* **Saiki, Isao et al., 2005m:74036**
Ohsaki, Makoto *see* **Ikeda, Kiyohiro et al., 2005j:74020**
Otranto, E. *see* **Lopez, Salvatore, 2005b:74048**
Pagano, S. *see* **Alart, Pierre, 2005f:74036**
Pi, Yong-Lin (*with* Bradford, Mark Andrew) Elastic flexural-torsional buckling of fixed arches. (English summary)
Pocheau, A. (*with* Roman, B.) Uniqueness of solutions for constrained Elastica. (English summary) **2005b:74049**
Potier-Ferry, Michel *see* **Boutyour, E. H. et al.**
Roman, B. *see* **Pocheau, A., 2005b:74049**
Saiki, Isao (*with* Ikeda, Kiyohiro; Murota, Kazuo) Flower patterns appearing on a honeycomb structure and their bifurcation mechanism. (English summary) **2005m:74036**
Wadee, M. Khurram Stability of localized solutions under rigid loading in a heuristic buckling model. (English summary) **2005h:74023**
Williams, F. W. *see* **Lu, Hexiang et al., 2005k:74036**
Zahrouni, Hamid *see* **Boutyour, E. H. et al.**
Zubov, Leonid M. *see* **Lastenko, Mikhail S., 2005a:74038**

Items with secondary classifications in 74G60

Achary, G. G. S. *see* **Kapuria, S.**
Amenzade, R. Yu. (*with* Gasymov, M. G.; Mirzoev, S. S.) Stability of an elastic rod that is nonhomogeneous with respect to length. (Russian)
Atanacković, Teodor M. (*with* Glavardanov, V. B.) Optimal shape of a heavy compressed column. (English summary) **2005i:74062**
Batista, M. (*with* Kosel, F.) Cantilever beam equilibrium configurations. (English summary) **2005m:74055**
Cheng, Chang-Jun *see* **Yuan, Xue Gang et al., 2005j:74006**
Coleman, Bernard D. (*with* Swigon, David) Theory of self-contact in Kirchhoff rods with applications to supercoiling of knotted and unknotted DNA plasmids. (English summary) **2005d:74016**
Craciun, Eduard-Marius *see* **Cristescu, Nicolae Dan et al., 2005k:74020**
Cristescu, Nicolae Dan (*with* Craciun, Eduard-Marius; Soós, Eugen) ★ Mechanics of elastic composites. **2005k:74020**
Domokos, Gábor (*with* Healey, Timothy J.) Multiple helical perversions of finite, intristically curved rods. (English summary) **2005k:74048**
Du, Qiang (*with* Liu, Chun; Wang, Xiaoqiang) A phase field approach in the numerical study of the elastic bending energy for vesicle membranes. (English summary) **2005b:74085**
Duong Minh Duc (*with* Nguyen Le Luc; Le Quang Nam; Truong Trung Tuyen) Multiple solutions for a nonlinear singular Dirichlet problem. (English summary) **2005i:35066**
Egorov, Yurii Vladimirovich On the Lagrange problem of the optimal form for circular hollow columns. (English summary) **2005f:74065**
Eisner, Jan (*with* Kučera, Milan; Recke, Lutz) Smooth bifurcation for an obstacle problem. (English summary) **2005i:47109**
Elishakoff, Isaac Essay on the contributors to the elastic stability theory. (English summary) **2005m:74001**
Friedlander, Leonid Remarks on the membrane and buckling eigenvalues for planar domains. (English and Russian summaries) **2005m:35204**
Gao, David Yang Nonconvex semi-linear problems and canonical duality solutions. (English summary) **2005b:47155**
Gasymov, M. G. *see* **Amenzade, R. Yu. et al.**
Glavardanov, V. B. *see* **Atanacković, Teodor M., 2005i:74062**
Healey, Timothy J. (*with* Montes-Pizarro, Errol L.) Global bifurcation in nonlinear elasticity with an application to barrelling states of cylindrical columns. (English summary) **2005b:74021**
— *see also* **Domokos, Gábor, 2005k:74048**
van der Heijden, G. H. M. A robust variational formulation for a rod subject to inequality constraints. (English summary) (*see* **2005g:74002**)
Henderson, Michael E. (*with* Neukirch, Sébastien) Classification of the spatial equilibria of the clamped elastica: numerical continuation of the solution set. (English summary) **2005a:74055**
Hoffman, Kathleen A. Methods for determining stability in continuum elastic-rod models of DNA. (English summary) **2005c:74055**
Kapuria, S. (*with* Achary, G. G. S.) Exact 3D piezothermoelasticity solution for buckling of hybrid cross-ply plates using state space approach. (English summary)
Klarbring, Anders Stability and critical points in large displacement frictionless contact problems. (English summary) **2005b:74089**

Kočvara, Michal (*with* Stingl, Michael) Solving nonconvex SDP problems of structural optimization with stability control. (English summary) **2005g:49058**
Kosel, F. *see* **Batista, M., 2005m:74055**
Kreuzer, E. *see* **Shukla, K. K. et al.**
Krużelecki, Jacek (*with* Smaś, Paweł) Optimal design of simply supported columns for buckling under loading controlled by displacements. (English summary)
Kučera, Milan *see* **Eisner, Jan et al., 2005i:47109**
Lange, Charles G. (*with* Wan, Frederic Y. M.) Bifurcation analysis of shallow spherical shells with meridionally nonuniform loading. (English summary) **2005h:74043**
Lazopoulos, K. A. On the gradient strain elasticity theory of plates. (English summary) **2005c:74053**
Le Quang Nam *see* **Duong Minh Duc et al., 2005i:35066**
Levy, Alan J. *see* **Xie, Mayue**
Liu, Chun *see* **Du, Qiang et al., 2005b:74085**
Mahadevan, L. *see* **Skotheim, Jan M., 2005b:74075**
Merodio, J. (*with* Ogden, Ray W.) Tensile instabilities and ellipticity in fiber-reinforced compressible non-linearly elastic solids. (English summary) **2005m:74013**
Mirzoev, S. S. *see* **Amenzade, R. Yu. et al.**
Montes-Pizarro, Errol L. *see* **Healey, Timothy J., 2005b:74021**
Mosler, J. Numerical analyses of discontinuous material bifurcation: strong and weak discontinuities. (English summary) **2005h:74015**
Nath, Y. *see* **Shukla, K. K. et al.**
Nelson, Philip C. *see* **Wiggins, Paul A. et al., 2005m:82168**
Neukirch, Sébastien *see* **Henderson, Michael E., 2005a:74055**
Nguyen Le Luc *see* **Duong Minh Duc et al., 2005i:35066**
Ogden, Ray W. *see* **Merodio, J., 2005m:74013**
Oyesanya, M. O. Symmetry and secondary bifurcation of elastic structures. (English summary) **2005k:37115**
Paĭmushin, V. N. (*with* Shalashilin, V. I.) Refined equations of the mean bending of three-layer shells, and shear forms of stability loss. (Russian)
Phillips, Rob *see* **Wiggins, Paul A. et al., 2005m:82168**
Privalova, O. G. *see* **Seĭranyan, A. P., 2005a:74057**
Ramm, Ekkehard (*with* Wall, Wolfgang A.) Shell structures—a sensitive interrelation between physics and numerics. (English summary)
Recke, Lutz *see* **Eisner, Jan et al., 2005i:47109**
Sanjarani Pour, M. A WKB analysis of the buckling condition for a cylindrical shell of arbitrary thickness subjected to an external pressure. (English summary) **2005h:74045**
Seĭranyan, A. P. (*with* Privalova, O. G.) The Lagrange problem on an optimal column: old and new results. (English summary) **2005a:74057**
Shalashilin, V. I. *see* **Paĭmushin, V. N.**
Shukla, K. K. (*with* Nath, Y.; Kreuzer, E.) Buckling and transient behaviour of layered composite plates under thermomechanical loading. (English summary)
Skotheim, Jan M. (*with* Mahadevan, L.) Dynamics of poroelastic filaments. (English summary) **2005b:74075**
Smaś, Paweł *see* **Krużelecki, Jacek**
Soós, Eugen *see* **Cristescu, Nicolae Dan et al., 2005k:74020**
Stingl, Michael *see* **Kočvara, Michal, 2005g:49058**
Stolpe, M. Global optimization of minimum weight truss topology problems with stress, displacement, and local buckling constraints using branch-and-bound. (English summary) **2005f:74067**
Stuart, Charles A. (*with* Vuillaume, G.) Buckling of a critically tapered rod: properties of some global branches of solutions. (English summary) **2005g:34046**
Swigon, David *see* **Coleman, Bernard D., 2005d:74016**
Truong Trung Tuyen *see* **Duong Minh Duc et al., 2005i:35066**
Vuillaume, G. *see* **Stuart, Charles A., 2005g:34046**
Wall, Wolfgang A. *see* **Ramm, Ekkehard**
Wan, Frederic Y. M. *see* **Lange, Charles G., 2005h:74043**
Wang, Xiaoqiang *see* **Du, Qiang et al., 2005b:74085**
Wiggins, Paul A. (*with* Phillips, Rob; Nelson, Philip C.) Exact theory of kinkable elastic polymers. (English summary) **2005m:82168**
Xie, Mayue (*with* Levy, Alan J.) On the torsion of a class of nonlinear fiber composite cylinders. (English summary)
Yuan, Xue Gang (*with* Zhu, Zheng You) Qualitative study of cavitated bifurcation for a class of incompressible generalized neo-Hookean spheres. (Chinese. English and Chinese summaries) **2005k:74014**
— (*with* Zhu, Zheng You; Cheng, Chang-Jun) Study on cavitated bifurcation problems for spheres composed of hyper-elastic materials. (English summary) **2005j:74006**
Zhu, Zheng You *see* **Yuan, Xue Gang et al., 2005j:74006** *and* **2005k:74014**

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Braides, Andrea (*with* Defranceschi, Anneliese; Vitali, Enrico) Relaxation of elastic energies with free discontinuities and constraint on the strain. (English summary) **2005a:74039**
Davini, Cesare (*with* Paroni, Roberto) Generalized Hessian and external approximations in variational problems of second order. (English summary) **2005c:74029**
Defranceschi, Anneliese *see* **Braides, Andrea et al., 2005a:74039**
Freddi, Lorenzo (*with* Paroni, Roberto) The energy density of martensitic thin films via dimension reduction. (English summary) **2005j:74021**
Hangan, Th. Elastic strips. (English summary) **2005k:74037**
Mielke, Alexander Deriving new evolution equations for microstructures via relaxation of variational incremental problems. (English summary) **2005i:74034**
Mora, Maria Giovanna (*with* Müller, Stefan[1]) Derivation of the nonlinear bending-torsion theory for inextensible rods by Γ-convergence. (English summary) **2005j:74022**
Müller, Stefan[1] *see* **Mora, Maria Giovanna, 2005j:74022**
Osmolovskiĭ, V. G. Exact solutions to the variational problem of the phase transition theory in continuum mechanics. (English summary) **2005f:74038**
— Temperature-dependence of equilibrium states of a two-phase elastic medium with the zero surface tension coefficient. (English summary) **2005e:74022**
Paroni, Roberto *see* **Davini, Cesare, 2005c:74029** *and* **Freddi, Lorenzo, 2005j:74021**
Ren, Xiaofeng (*with* Wei, Juncheng) The soliton-stripe pattern in the Seul-Andelman membrane. (English summary) **2005e:74023**
Sychëv, M. A. Attainment and relaxation results in special classes of deformations. (English summary) **2005m:74037**
Vitali, Enrico *see* **Braides, Andrea et al., 2005a:74039**
Wei, Juncheng *see* **Ren, Xiaofeng, 2005e:74023**

Items with secondary classifications in 74G65

Alart, Pierre (*with* Pagano, S.) DC solutions of postbuckling problems. (English summary) **2005f:74036**
Alizade, A. N. (*with* Amenzade, R. Yu.) The variational method of creep theory taking damage and corrosion into account. (Russian)
Amenzade, R. Yu. *see* **Alizade, A. N.**
Armano, Tiziana (*with* Cermelli, Paolo) Noncrystallographic motion of a dislocation as a fine mixture of rectilinear paths. (English summary) **2005j:74011**
Arroyo, Josu (*with* Garay, Oscar J.; Mencía, J. J.) Extremals of curvature energy actions on spherical closed curves. (English summary) **2005d:58023**
Askes, Harm (*with* Kuhl, Ellen; Steinmann, Paul) An ALE formulation based on spatial and material settings of continuum mechanics. II. Classification and applications. (English summary) **2005g:74011**
— *see also* **Kuhl, Ellen et al., 2005g:74010**
Babadjian, Jean-François (*with* Francfort, Gilles A.) Spatial heterogeneity in 3D-2D dimensional reduction. (English summary) **2005k:49035**
Baniotopoulos, Charalambos C. (*with* Haslinger, Jaroslav; Morávková, Zuzana) Mathematical modeling of delamination and nonmonotone friction problems by hemivariational inequalities. (English summary) **2005k:74060**
Bartels, Sören (*with* Carstensen, Carsten; Hackl, K.; Hoppe, U.) Effective relaxation for microstructure simulations: algorithms and applications. (English summary) **2005j:74046**
— (*with* Carstensen, Carsten; Plecháč, P.; Prohl, Andreas) Convergence for stabilisation of degenerately convex minimisation problems. (English summary) **2005e:65077**
— Linear convergence in the approximation of rank-one convex envelopes. (English summary) **2005k:65110**
— (*with* Carstensen, Carsten; Dolzmann, Georg) Inhomogeneous Dirichlet conditions in a priori and a posteriori finite element error analysis. (English summary) **2005i:65166**
— Adaptive approximation of Young measure solutions in scalar nonconvex variational problems. (English summary) **2005j:49023**
Bellido, José Carlos (*with* Pedregal, Pablo) Existence in optimal control with state equation in divergence form via variational principles. (English summary) **2005a:49005**
Blyth, M. G. (*with* Pozrikidis, C.) Solution space of axisymmetric capsules enclosed by elastic membranes. (English summary) **2005c:74019**
Bojarski, Jarosław L. Regularity of solutions in plasticity. I. Continuum. (English summary) **2005c:74010**
— General method of regularization. I. Functionals defined on BD space. (English summary) **2005k:49036**
— General method of regularization. II. Relaxation proposed by Suquet. (English summary) **2005k:49037**
— General method of regularization. III. The unilateral contact problem. (English summary) **2005k:49038**
Bonetti, Elena (*with* Frémond, Michel) Collisions and fractures: a model in SBD. (English and Italian summaries) **2005k:74070**
— (*with* Frémond, Michel) Collisions and fracture: a 1-D theory. How to tear off a chandelier from the ceiling. (English summary) **2005e:74047**
Bouchitté, Guy (*with* Fonseca, Irene; Mascarenhas, M. Luísa) Bending moment in membrane theory. (English summary) **2005c:74051**
Braess, Dietrich (*with* Ming, Ping-bing) A finite element method for nearly incompressible elasticity problems. (English summary) **2005f:74073**
Brenner, Martin J. *see* **Lind, Rick et al.**
Bruno, Oscar P. *see* **Goldsztein, Guillermo H., 2005b:74096**
Buonsanti, Michele (*with* Royer-Carfagni, Gianni) From 3-D nonlinear elasticity theory to 1-D bars with nonconvex energy. (English summary) **2005c:74048**
Burak, Ya. Ĭ. (*with* Moroz, G. Ĭ.) On two versions of a variational formulation of boundary value problems of the nonlinear mechanics of elastic systems. (Ukrainian. English, Russian and Ukrainian summaries) **2005g:74007**
Calderer, M. Carme *see* **Shen, Quan, 2005h:74057**
Carillo, Sandra (*with* Chipot, Michel; Vergara Caffarelli, G.) A variational problem with non-local constraints. (English summary) (*see* **2005c:00016**)
Carozza, Menita (*with* Passarelli di Napoli, Antonia) Partial regularity of local minimizers of quasiconvex integrals with sub-quadratic growth. (English summary) **2005a:49072**
Carriero, Michele (*with* Leaci, Antonio; Tomarelli, Franco) Second order variational problems with free discontinuity and free gradient discontinuity. **2005m:49005**
Carstensen, Carsten (*with* Rieger, Marc Oliver) Young-measure approximations for elastodynamics with non-monotone stress-strain relations. (English summary) **2005g:65141**
— (*with* Dolzmann, Georg) An a priori error estimate for finite element discretizations in nonlinear elasticity for polyconvex materials under small loads. (English summary) **2005b:74019**
— Ten remarks on nonconvex minimisation for phase transition simulations. (English summary) **2005g:74092**
— *see also* **Bartels, Sören et al., 2005e:65077; 2005i:65166** *and* **2005j:74046**
Cermelli, Paolo *see* **Armano, Tiziana, 2005j:74011**
Chagneau, F. *see* **Le Dret, Hervé et al., 2005j:74005**
Chambolle, Antonin A density result in two-dimensional linearized elasticity, and applications. (English summary) **2005i:74064**
— An approximation result for special functions with bounded deformation. (English and French summaries) **2005d:49066**
— Addendum to: "An approximation result for special functions with bounded deformation" [J. Math. Pures Appl. (9) **83** (2004), no. 7, 929–954; MR2074682 (2005d:49066)]. (English and French summaries) **2005h:49103**
Chen, Yi-Chao Second variation condition and quadratic integral inequalities with higher

order derivatives. (English summary) **2005a:74017**
Chipot, Michel ★ ℓ goes to plus infinity. **2005b:35001**
— Elastic deformations of membranes and wires. (English summary) **2005h:35134**
— *see also* **Carillo, Sandra et al.**, (2005c:00016)
Ciarlet, Patrick, Jr. *see* **Ciarlet, Philippe G., 2005g:74015**
Ciarlet, Philippe G. (*with* Ciarlet, Patrick, Jr.) Another approach to linearized elasticity and Korn's inequality. (English and French summaries) **2005g:74015**
Clarenz, Ulrich The Wulff shape minimizes an anisotropic Willmore functional. (English summary) **2005g:49071**
Colombo, Fabrizio (*with* Tomarelli, Franco) Boundary value problems and obstacle problem for elastic bodies with free cracks. **2005m:74085**
Conti, Sergio (*with* De Lellis, Camillo) Some remarks on the theory of elasticity for compressible Neohookean materials. (English summary) **2005d:74002**
— (*with* Zanzotto, Giovanni) A variational model for reconstructive phase transformations in crystals, and their relation to dislocations and plasticity. (English summary) **2005d:74028**
— (*with* DeSimone, Antonio; Müller, Stefan[1]) Self-similar folding patterns and energy scaling in compressed elastic sheets. (English summary) **2005k:74056**
Dal Maso, Gianni (*with* Francfort, Gilles A.; Toader, Rodica) Quasi-static evolution in brittle fracture: the case of bounded solutions. **2005m:74086**
— (*with* Fonseca, Irene; Leoni, Giovanni; Morini, Massimiliano) Higher-order quasiconvexity reduces to quasiconvexity. (English summary) **2005a:49003**
De Lellis, Camillo *see* **Conti, Sergio, 2005d:74002**
DeSimone, Antonio Coarse-grained models of materials with non-convex free-energy: two case studies. (English summary) **2005k:74065**
— *see also* **Conti, Sergio et al., 2005k:74056**
Dolzmann, Georg *see* **Carstensen, Carsten, 2005b:74019** *and* **Bartels, Sören et al., 2005i:65166**
Droske, M. (*with* Rumpf, Martin) A level set formulation for Willmore flow. (English summary) **2005f:35145**
Elfanni, A. (*with* Fuchs, Martin[2]) The behaviour of microstructures with small shears of the austenite-martensite interface in martensitic phase transformations. (English summary) **2005a:74074**
— (*with* Fuchs, Martin[2]) A link between the shape of the austenite-martensite interface and the behaviour of the surface energy. (English summary) **2005j:49034**
Fonseca, Irene (*with* Zappale, Elvira) Multiscale relaxation of convex functionals. (English summary) **2005f:49040**
— *see also* **Dal Maso, Gianni et al., 2005a:49003** *and* **Bouchitté, Guy et al., 2005c:74051**
Fosdick, Roger L. (*with* Royer-Carfagni, Gianni) Stress as a constraint reaction in rigid bodies. (English summary) **2005f:74004**
Foss, M. (*with* Hrusa, W.; Mizel, Victor J.) The Lavrentiev phenomenon in nonlinear elasticity. (English summary) **2005d:49020**
Francfort, Gilles A. *see* **Babadjian, Jean-François, 2005k:49035** *and* **Dal Maso, Gianni et al., 2005m:74086**
Freddi, Lorenzo (*with* Paroni, Roberto) A 3D–1D Young measure theory of an elastic string. (English summary) **2005g:74073**
Freidin, A. B. *see* **Fu, Yibin B., 2005g:74097**
Frémond, Michel *see* **Bonetti, Elena, 2005e:74047** *and* **2005k:74070**
Frolov, M. E. *see* **Repin, S. I., 2005i:74054**
Fu, Yibin B. (*with* Freidin, A. B.) Characterization and stability of two-phase piecewise-homogeneous deformations. (English summary) **2005g:74097**
Fuchs, Martin[2] *see* **Elfanni, A., 2005a:74074** *and* **2005j:49034**
Gao, David Yang Nonconvex semi-linear problems and canonical duality solutions. (English summary) **2005b:47155**
— Complementary principle, algorithm, and complete solutions to phase transitions in solids governed by Landau-Ginzburg equation. (English summary) **2005b:74102**
Garay, Oscar J. *see* **Arroyo, Josu et al., 2005d:58023**
Giacomini, Alessandro (*with* Ponsiglione, Marcello) A discontinuous finite element approximation of quasi-static growth of brittle fractures. (English summary) **2005a:65130**
Goldsztein, Guillermo H. (*with* Bruno, Oscar P.) A fast algorithm for the simulation of polycrystalline misfits. II. Martensitic transformations in three space dimensions. (English summary) **2005b:74096**
Gürses, E. *see* **Miehe, Christian et al., 2005f:74020**
Hackl, K. *see* **Bartels, Sören et al., 2005j:74046**
Haslinger, Jaroslav *see* **Baniotopoulos, Charalambos C. et al., 2005k:74060**
Hoppe, U. *see* **Bartels, Sören et al., 2005j:74046**
Hrusa, W. *see* **Foss, M. et al., 2005d:49020**
Idone, Giovanna (*with* Maugeri, Antonino) Equilibrium problems. (English summary) (*see* **2005m:90002**)
Ionescu, Ioan R. (*with* Wolf, Sylvie) Interaction of faults under slip-dependent friction. Non-linear eigenvalue analysis. (English summary) **2005h:74046**
Jabin, Pierre-Emmanuel (*with* Otto, Felix; Perthame, Benoît) Line-energy Ginzburg-Landau models: zero-energy states. (English summary) **2005k:35070**
Kerdid, Nabil (*with* Le Dret, Hervé; Saïdi, Abdelkader) Approximation numérique d'un problème de membrane non linéaire. (English and French summaries) [Numerical approximation for a nonlinear membrane problem] **2005h:74039**
Kovtunenko, V. A. Shape sensitivity of curvilinear cracks on interface to non-linear perturbations. (English summary) **2005a:35111**
— Nonconvex problem for crack with nonpenetration. (English summary) **2005k:49005**
Krasucki, Francoise (*with* Münch, Arnaud; Ousset, Yves) Mathematical analysis of nonlinear bonded joint models. (English summary) **2005b:74022**
Kružík, Martin (*with* Otto, Felix) A phenomenological model for hysteresis in polycrystalline shape memory alloys. (English summary) **2005g:74095**
— *see also* **Roubíček, Tomáš, 2005j:78016**
Krys′ko, V. A. *see* **Pavlov, S. P., 2005d:74018**
Kuhl, Ellen (*with* Askes, Harm; Steinmann, Paul) An ALE formulation based on spatial and material settings of continuum mechanics. I. Generic hyperelastic formulation. (English summary) **2005g:74010**
— *see also* **Askes, Harm et al., 2005g:74011**
Lambrecht, Matthias *see* **Miehe, Christian et al., 2005f:74020**
Langenbach, Arno Über einige Modellgleichungen der Mechanik in der Funktionalanalysis. [On some model equations of mechanics in functional analysis] (*see* **2005g:00013**)
Leaci, Antonio *see* **Carriero, Michele et al., 2005m:49005**
Lebedev, Leonid P. (*with* Neĭmark, A. B.) An existence theorem for a shallow nonlinear shell with an obstacle. (Russian) **2005m:74062**
Le Dret, Hervé (*with* Lewandowski, Roger; Priour, D.; Chagneau, F.) Numerical simulation of a cod end net. I. Equilibrium in a uniform flow. (English summary) **2005j:74005**
— (*with* Meunier, Nicolas) Modeling heterogeneous martensitic wires. (English summary) **2005m:74077**
— *see also* **Kerdid, Nabil et al., 2005h:74039**
Lei, Yu Tian On the minimization of an energy functional. (English summary) **2005h:49006**
Leoni, Giovanni *see* **Dal Maso, Gianni et al., 2005a:49003**
Lewandowski, Roger *see* **Le Dret, Hervé et al., 2005j:74005**
Li, Zhiping Multiscale modelling and computation of microstructures in multi-well problems. (English summary) **2005g:74093**
Lin, Chun-Chi Rigidity for the hyperbolic Monge-Ampère equation. (English summary) **2005j:35158**
Lind, Rick (*with* Prazenica, Richard J.; Brenner, Martin J.) Estimating nonlinearity using Volterra kernels in feedback with linear models. (English summary)
Madani, Kamyar *see* **Marigo, Jean-Jacques, 2005k:74051**
Marigo, Jean-Jacques (*with* Truskinovsky, Lev) Initiation and propagation of fracture in the models of Griffith and Barenblatt. (English summary) **2005b:74114**
— (*with* Madani, Kamyar) The influence of the type of loading on the asymptotic behavior of slender elastic rings. (English summary) **2005k:74051**
Mascarenhas, M. Luísa *see* **Bouchitté, Guy et al., 2005c:74051**
Maugeri, Antonino *see* **Idone, Giovanna**, (2005m:90002)
Mencía, J. J. *see* **Arroyo, Josu et al., 2005d:58023**
Meunier, Nicolas *see* **Le Dret, Hervé, 2005m:74077**
Meziat, René J. Analysis of two dimensional nonconvex variational problems. (English summary) (*see* **2005m:90002**)
Miehe, Christian (*with* Lambrecht, Matthias; Gürses, E.) Analysis of material instabilities in inelastic solids by incremental energy minimization and relaxation methods: evolving deformation microstructures in finite plasticity. (English summary) **2005f:74020**
Mikhaĭlov, A. S. Dependence of equilibrium states on parameters of the phase transition problem under implicit accounting of energy of the boundary of the interface of the phases. (English summary) **2005g:35060**
Ming, Ping-bing *see* **Braess, Dietrich, 2005f:74073**
Mizel, Victor J. *see* **Foss, M. et al., 2005d:49020**
Mora, Maria Giovanna (*with* Müller, Stefan[1]) A nonlinear model for inextensible rods as a low energy Γ-limit of three-dimensional nonlinear elasticity. (English and French summaries) **2005b:74073**
Morávková, Zuzana *see* **Baniotopoulos, Charalambos C. et al., 2005k:74060**
Morini, Massimiliano Sequences of singularly perturbed functionals generating free-discontinuity problems. (English summary) **2005a:49023**
— *see also* **Dal Maso, Gianni et al., 2005a:49003**
Moroz, G. Ĭ. *see* **Burak, Ya. Ĭ., 2005g:74007**
Müller, Stefan[1] *see* **Mora, Maria Giovanna, 2005b:74073** *and* **Conti, Sergio et al., 2005k:74056**
Münch, Arnaud *see* **Krasucki, Francoise et al., 2005b:74022**
Namm, R. V. *see* **Vikhtenko, È. M., 2005b:49032**
Natroshvili, David (*with* Wendland, Wolfgang L.) Boundary variational inequalities in the theory of interface cracks. (English summary) **2005k:35160**
Nazarov, Sergei A. (*with* Sokołowski, Jan) Selfadjoint extensions for the elasticity system in shape optimization. (English summary) **2005m:49069**
Neff, Patrizio A geometrically exact viscoplastic membrane-shell with viscoelastic transverse shear resistance avoiding degeneracy in the thin-shell limit. I. The viscoelastic membrane-plate. (English summary) **2005j:74036**
Neĭmark, A. B. *see* **Lebedev, Leonid P., 2005m:74062**
Osmolovskiĭ, V. G. Dependence of the temperature of phase transitions on the size of the domain. (Russian. English and Russian summaries) **2005m:74079**
Otto, Felix *see* **Kružík, Martin, 2005g:74095** *and* **Jabin, Pierre-Emmanuel et al., 2005k:35070**
Ousset, Yves *see* **Krasucki, Francoise et al., 2005b:74022**
Pagano, S. *see* **Alart, Pierre, 2005f:74036**
Paroni, Roberto *see* **Freddi, Lorenzo, 2005g:74073**
Passarelli di Napoli, Antonia *see* **Carozza, Menita, 2005a:49072**
Pastrone, Franco Wave propagation in microstructured solids. (English summary) **2005m:74051**
Pavlov, S. P. (*with* Krys′ko, V. A.) A mixed variational formulation of the problem of a plate freely supported on a curvilinear contour. (Russian) **2005d:74018**
Pedregal, Pablo On the structure of symmetric 2×2 gradients. (English and Spanish summaries) **2005c:49004**
— Γ-convergence through Young measures. (English summary) **2005i:49016**
— *see also* **Bellido, José Carlos, 2005a:49005**
Peigney, Michaël Simulating wear under cyclic loading by a minimization approach. (English summary) **2005f:74063**
Perthame, Benoît *see* **Jabin, Pierre-Emmanuel et al., 2005k:35070**
Pitteri, Mario On certain weak phase transformations in multilattices. (English summary) **2005j:74045**
Plecháč, P. *see* **Bartels, Sören et al., 2005e:65077**
Ponsiglione, Marcello *see* **Giacomini, Alessandro, 2005a:65130**
Pozrikidis, C. *see* **Blyth, M. G., 2005c:74019**
Prazenica, Richard J. *see* **Lind, Rick et al.**
Priour, D. *see* **Le Dret, Hervé et al., 2005j:74005**
Prohl, Andreas *see* **Bartels, Sören et al., 2005e:65077**
Raguž, Andrija Relaxation of Ginzburg-Landau functional with 1-Lipschitz penalizing term in one dimension by Young measures on micropatterns. (English summary) **2005k:49124**

Repin, S. I. (*with* Frolov, M. E.) An estimate for deviations from the exact solution of the Reissner-Mindlin plate problem. (Russian. English and Russian summaries) **2005i:74054**
Rieger, Marc Oliver *see* **Carstensen, Carsten, 2005g:65141**
Roubíček, Tomáš (*with* Kružík, Martin) Mesoscopic model for ferromagnets with isotropic hardening. (English summary) **2005j:78016**
Royer-Carfagni, Gianni *see* **Buonsanti, Michele, 2005c:74048** *and* **Fosdick, Roger L., 2005f:74004**
Rudoĭ, E. M. Invariant integrals for the equilibrium problem for a plate with a crack. (Russian. Russian summary) **2005g:74078**
Rumpf, Martin *see* **Droske, M., 2005f:35145**
Saïdi, Abdelkader *see* **Kerdid, Nabil et al., 2005h:74039**
Sanchez-Palencia, E. On internal and boundary layers with unbounded energy in thin shell theory. Elliptic case. (English summary) **2005i:74057**
Santos, Pedro Miguel (*with* Zappale, Elvira) Second-order analysis for thin structures. (English summary) **2005c:74054**
— $\mathscr{A}$-quasi-convexity with variable coefficients. (English summary) **2005h:49054**
Shen, Quan (*with* Calderer, M. Carme) A relaxed model and its homogenization for nematic liquid crystals in composite materials. (English summary) **2005h:74057**
Šilhavý, M. On semiconvexity properties of rotationally invariant functions in two dimensions. (English summary) **2005e:49026**
Sivaloganathan, Jeyabal (*with* Spector, Scott J.) Myriad radial cavitating equilibria in nonlinear elasticity. (English summary) **2005c:74009**
Sokołowski, Jan *see* **Nazarov, Sergei A., 2005m:49069**
Spector, Scott J. *see* **Sivaloganathan, Jeyabal, 2005c:74009**
Steinmann, Paul *see* **Kuhl, Ellen et al., 2005g:74010** *and* **Askes, Harm et al., 2005g:74011**
Székelyhidi, László, Jr. The regularity of critical points of polyconvex functionals. (English summary) **2005c:49076**
— Rank-one convex hulls in $\mathbb{R}^{2\times 2}$. (English summary) **2005k:49043**
Toader, Rodica *see* **Dal Maso, Gianni et al., 2005m:74086**
Tomarelli, Franco *see* **Carriero, Michele et al., 2005m:49005** *and* **Colombo, Fabrizio, 2005m:74085**
Trabelsi, Karim Incompressible nonlinearly elastic thin membranes. (English and French summaries) **2005i:74050**
Truskinovsky, Lev *see* **Marigo, Jean-Jacques, 2005b:74114**
Venkataramani, Shankar C. Lower bounds for the energy in a crumpled elastic sheet—a minimal ridge. (English summary) **2005b:74077**
Vergara Caffarelli, G. *see* **Carillo, Sandra et al., (2005c:00016)**
Vikhtenko, È. M. (*with* Namm, R. V.) A method for solving semi-coercive variational inequalities, based on the method of iterative proximal regularization. (Russian) **2005b:49032**
Wendland, Wolfgang L. *see* **Natroshvili, David, 2005k:35160**
Wolf, Sylvie *see* **Ionescu, Ioan R., 2005h:74046**
Yuan, Xue Gang (*with* Zhu, Zheng You) Qualitative study of cavitated bifurcation for a class of incompressible generalized neo-Hookean spheres. (Chinese. English and Chinese summaries) **2005k:74014**
Zanzotto, Giovanni *see* **Conti, Sergio, 2005d:74028**
Zappale, Elvira *see* **Santos, Pedro Miguel, 2005c:74054** *and* **Fonseca, Irene, 2005f:49040**
Zhang, Ke Wei[1] Neighborhoods of parallel wells in two dimensions that separate gradient Young measures. (English summary) **2005a:49081**
— An approximation theorem for sequences of linear strains and its applications. (English summary) **2005h:49033**
— Isolated microstructures on linear elastic strains. (English summary) **2005h:74053**
— Quasi-convex functions on subspaces and boundaries of quasi-convex sets. (English summary) **2005f:49003**
Zhu, Zheng You *see* **Yuan, Xue Gang, 2005k:74014**
Zimmer, Johannes Stored energy functions for phase transitions in crystals. (English summary) **2005c:74061**

74G70 Stress concentrations, singularities

Kubik, I. *see* **Povstenko, Yu. Z., 2005k:74038**
Loveĭkīn, A. V. On the singularity of a stress field in an incompressible half-space with a wedge-shaped surface cut at large angles of rib penetration. (Ukrainian. English, Russian and Ukrainian summaries)
Povstenko, Yu. Z. (*with* Kubik, I.) Concentrated ring loading in a nonlocal elastic medium. (English summary) **2005k:74038**
Walpole, L. J. The Green functions of an elastic medium surrounding a rigid spherical inclusion. (English summary) **2005k:74039**
Wheeler, Lewis Inhomogeneities of minimum stress concentration. (English summary) **2005b:74050**

Items with secondary classifications in 74G70

Abdallah, Jalel Ben *see* **Alves, Carlos J. S. et al., 2005h:74024**
Abdelmoula, Radhi (*with* Leger, Alain) Local and global effects of small holes periodically distributed on a surface embedded in an axisymmetrical elastic medium. (English summary) **2005h:74056**
Alves, Carlos J. S. (*with* Abdallah, Jalel Ben; Jaoua, Mohamed) Recovery of cracks using a point-source reciprocity gap function. (English summary) **2005h:74024**
Ascenzi, Oscar (*with* Pareschi, Lorenzo; Segala, Fausto) Convergence of a quadrature formula for the approximation of stress intensity factor for planar cracks. (English summary) **2005g:74048**
Becker, Wilfried *see* **Lindemann, Jan**
Chkadua, Otar Solvability and asymptotics of solutions of crack-type boundary-contact problems of the couple-stress elasticity. (English summary) **2005c:35278**
Costabel, Martin (*with* Dauge, Monique; Yosibash, Zohar) A quasi-dual function method for extracting edge stress intensity functions. (English summary) **2005c:35068**
Dauge, Monique *see* **Costabel, Martin et al., 2005c:35068**
Dimitrov, Atanas On singularities in the solution of three-dimensional Stokes flow and incompressible elasticity problems with corners. (English summary) **2005a:76098**
Dyszlewicz, Janusz ★ Micropolar theory of elasticity. **2005a:74007**
Gupta, Anurag *see* **Li, Shaofan et al., 2005j:74003**
Janjgava, R. Some problems of concentration of stress for plane domains with binary mixtures.
Jaoua, Mohamed *see* **Alves, Carlos J. S. et al., 2005h:74024**
Leger, Alain *see* **Abdelmoula, Radhi, 2005h:74056**
Legrain, G. (*with* Moës, N.; Verron, E.) Stress analysis around crack tips in finite strain problems using the eXtended finite element method. (English summary)
Li, Shaofan (*with* Gupta, Anurag; Markenscoff, Xanthippi) Conservation laws of linear elasticity in stress formulations. (English summary) **2005j:74003**
Lindemann, Jan (*with* Becker, Wilfried) Investigation of stress-concentration problems in composite laminates by the boundary finite element method. (English summary)
Lipton, Robert Bounds on the distribution of extreme values for the stress in composite materials. (English summary) **2005a:74083**
Markenscoff, Xanthippi *see* **Li, Shaofan et al., 2005j:74003**
Marzocchi, Alfredo (*with* Musesti, Alessandro) Balance laws and weak boundary conditions in continuum mechanics. (English summary) **2005f:74005**
Moës, N. *see* **Legrain, G. et al.**
Mosler, J. On the modeling of highly localized deformations induced by material failure: the strong discontinuity approach. (English summary) **2005g:74049**
Musesti, Alessandro *see* **Marzocchi, Alfredo, 2005f:74005**
Mzhavanadze, Sh. V. Cuts off and holes with equidurable boundaries in an infinite plate with a rectangular hole. (English and Georgian summaries) **2005i:30066**
Pareschi, Lorenzo *see* **Ascenzi, Oscar et al., 2005g:74048**
Rokva, Zh. P. Application of the analytic functions for certain coefficients of intensity in some problem of plane elasticity.
Segala, Fausto *see* **Ascenzi, Oscar et al., 2005g:74048**
Sil'vestrov, V. V. The method of Riemann surfaces in the problem of interface cracks and inclusions under concentrated forces. (Russian) **2005i:74069**
Sivaloganathan, Jeyabal (*with* Spector, Scott J.) Myriad radial cavitating equilibria in nonlinear elasticity. (English summary) **2005c:74009**
Spector, Scott J. *see* **Sivaloganathan, Jeyabal, 2005c:74009**
Vaĭsfel'd, N. D. A nonstationary problem of stress concentration near a spherical crack located inside a truncated cone. (Ukrainian. English, Russian and Ukrainian summaries)
Verron, E. *see* **Legrain, G. et al.**
Yosibash, Zohar *see* **Costabel, Martin et al., 2005c:35068**

74G75 Inverse problems

Abdallah, Jalel Ben *see* **Alves, Carlos J. S. et al., 2005h:74024**
Alves, Carlos J. S. (*with* Abdallah, Jalel Ben; Jaoua, Mohamed) Recovery of cracks using a point-source reciprocity gap function. (English summary) **2005h:74024**
Bantsuri, R. On a cut of a piecewise-homogeneous orthotropic plane. (English and Georgian summaries) **2005f:74039**
Barbone, Paul E. (*with* Gokhale, Nachiket H.) Elastic modulus imaging: on the uniqueness and nonuniqueness of the elastography inverse problem in two dimensions (English summary) **2005b:74051**
Gokhale, Nachiket H. *see* **Barbone, Paul E., 2005b:74051**
Ivanov, Sergei A. (*with* Man, Chi-Sing; Nakamura, Gen[1]) Recovery of residual stress in a vertically heterogeneous elastic medium. (English summary) **2005j:74023**
Jaoua, Mohamed *see* **Alves, Carlos J. S. et al., 2005h:74024**
Kravchuk, A. S. (*with* Neittaanmäki, Pekka) Dynamic identification of the deformed body parameters. (*see* **2005b:00020**)
Man, Chi-Sing *see* **Ivanov, Sergei A. et al., 2005j:74023**
Nakamura, Gen[1] *see* **Ivanov, Sergei A. et al., 2005j:74023**
Neittaanmäki, Pekka *see* **Kravchuk, A. S., (2005b:00020)**

Items with secondary classifications in 74G75

Belhachmi, Zakaria (*with* Bucur, Dorin) Détection et approximation de défauts non-réguliers. (English and French summaries) [Non-smooth defect identification and approximation] **2005k:35422**
Ben Ameur, Hend (*with* Burger, Martin; Hackl, Benjamin) Level set methods for geometric inverse problems in linear elasticity. (English summary) **2005h:35353**
Bucur, Dorin *see* **Belhachmi, Zakaria, 2005k:35422**
Bui, Huy Duong (*with* Constantinescu, Andrei; Maigre, Hubert) Numerical identification of linear cracks in 2D elastodynamics using the instantaneous reciprocity gap. (English summary) **2005d:74014**
Bukhgeĭm, A. L. (*with* Dyatlov, G. V.; Kardakov, V. B.; Tantserev, E. V.) Uniqueness in an inverse problem for a system of equations in elasticity. (Russian. Russian summary) **2005g:35295**
Burger, Martin *see* **Ben Ameur, Hend et al., 2005h:35353**
Constantinescu, Andrei *see* **Bui, Huy Duong et al., 2005d:74014**
Đặng Đình Áng (*with* Dang Duc Trong; Yamamoto, Masahiro) A Cauchy like problem in plane elasticity: regularization by quasi-reversibility with error estimates. (English summary) **2005b:35273**
Dang Duc Trong *see* **Đặng Đình Áng et al., 2005b:35273**
Dyatlov, G. V. *see* **Bukhgeĭm, A. L. et al., 2005g:35295**
Engl, Heinz W. Identification of parameters in polymer crystallization, semiconductor models and elasticity via iterative regularization methods. **2005b:35289**
Eskin, Gregory (*with* Ralston, James) On the inverse boundary value problem for linear isotropic elasticity and Cauchy-Riemann systems. (English summary) **2005i:35283**
Gogolauri, L. On one mixed type contact problem for an elastic anisotropic half-plane. (English and Georgian summaries) **2005f:74060**
Hackl, Benjamin *see* **Ben Ameur, Hend et al., 2005h:35353**
Imanuvilov, Oleg Yurievich (*with* Yamamoto, Masahiro) Carleman estimate for a stationary isotropic Lamé system and the applications. (English summary) **2005a:35036**
— (*with* Yamamoto, Masahiro) Carleman estimates for the non-stationary Lamé system and the application to an inverse problem. (English summary) **2005k:35429**
Kardakov, V. B. *see* **Bukhgeĭm, A. L. et al., 2005g:35295**
Khobragade, N. W. (*with* Wankhede, P. C.) An inverse steady-state problem of thermoelastic deformation of a finite length hollow cylinder-VII. (English summary)

— (*with* Wankhede, P. C.) An inverse thermoelastic problem of a thin rectangular plate. (English summary) **2005m:74023**

Kim, Sungwhan (*with* Yamamoto, Masahiro) Unique determination of inhomogeneity in a stationary isotropic Lamé system with variable coefficients. (English summary) **2005d:35271**

Kügler, Philipp A parameter identification problem of mixed type related to the manufacture of car windshields. (English summary) **2005a:74080**

Maigre, Hubert *see* **Bui, Huy Duong et al., 2005d:74014**

Morassi, Antonino (*with* Rosset, Edi) Detecting rigid inclusions, or cavities, in an elastic body. (English summary) **2005g:35300**

— (*with* Rosset, Edi) Stable determination of cavities in elastic bodies. (English summary) **2005f:35326**

Nakamura, Gen[1] (*with* Uhlmann, Gunther; Wang, Jenn-Nan) Reconstruction of cracks in an inhomogeneous anisotropic elastic medium. (English and French summaries) **2005b:35299**

— (*with* Uhlmann, Gunther; Wang, Jenn-Nan) Unique continuation property for elliptic systems and crack determination in anisotropic elasticity. (English summary) **2005g:35023**

— (*with* Uhlmann, Gunther; Wang, Jenn-Nan) Oscillating-decaying solutions, Runge approximation property for the anisotropic elasticity system and their applications to inverse problems. (English and French summaries) **2005i:35289**

Ralston, James *see* **Eskin, Gregory, 2005i:35283**

Rosset, Edi *see* **Morassi, Antonino, 2005f:35326** *and* **2005g:35300**

Salazar González, José Domingo (*with* Westbrook, Rex) Inverse problems of mixed type in linear plate theory. (English summary) **2005d:35272**

Shvab, A. A. An inverse overdetermined problem for a nonhomogeneous elastic medium. (Russian. Russian summary) **2005m:35299**

Tantserev, E. V. *see* **Bukhgeĭm, A. L. et al., 2005g:35295**

Uhlmann, Gunther *see* **Nakamura, Gen[1] et al., 2005b:35299**; **2005g:35023** *and* **2005i:35289**

Wang, Jenn-Nan *see* **Nakamura, Gen[1] et al., 2005b:35299**; **2005g:35023** *and* **2005i:35289**

Wankhede, P. C. *see* **Khobragade, N. W., 2005m:74023**

Westbrook, Rex *see* **Salazar González, José Domingo, 2005d:35272**

Yakhno, V. G. 1-D inverse problem of thermoelasticity. (English summary) (*see* **2005b:00020**)

Yamamoto, Masahiro *see* **Imanuvilov, Oleg Yurievich, 2005a:35036**; **2005k:35429**; **Đặng Đình Áng et al., 2005b:35273** *and* **Kim, Sungwhan, 2005d:35271**

74G99 None of the above, but in this section

Ciarlet, Philippe G. (*with* Mardare, Cristinel) An estimate of the H^1-norm of deformations in terms of the L^1-norm of their Cauchy-Green tensors. (English and French summaries) **2005a:74040**

Denisyuk, I. T. On the stress state of three-dimensional bodies with nonsmooth inclusions. (Russian. English and Ukrainian summaries)

Fedorov, V. A. On the symmetry of a stress-strain state of symmetric bodies under antisymmetric loading. (Russian. English summary)

Kunets′, Ya. Ĭ. Elastic equilibrium of a body with a thin pointed soft inclusion under antiplane shear conditions. (Ukrainian. English, Russian and Ukrainian summaries)

Mardare, Cristinel *see* **Ciarlet, Philippe G., 2005a:74040**

Revenko, V. P. Determination of the stress-strain state of a thick-walled cylinder loaded at its ends by arbitrary forces. (Ukrainian. English summary) **2005g:74051**

Villaggio, Piero Hammering of nails and pitons. (English summary)

Items with secondary classifications in 74G99

Arango, Jaime Uniqueness of critical points for semi-linear Dirichlet problems in convex domains. (English summary) **2005m:35079**

Babeshko, O. M. *see* **Babeshko, V. A.**

Babeshko, V. A. (*with* Babeshko, O. M.) The factorization method in the theory of viruses of vibrational stability. (Russian)

Berlyand, Leonid (*with* Mityushev, V.) Increase and decrease of the effective conductivity of two phase composites due to polydispersity. (English summary) **2005k:74021**

Bîrsan, Mircea The solution of Saint-Venant's problem in the theory of Cosserat shells. (English summary) **2005g:74080**

Ciarlet, Patrick, Jr. *see* **Ciarlet, Philippe G., 2005m:35297**

Ciarlet, Philippe G. (*with* Ciarlet, Patrick, Jr.) Another approach to linearized elasticity and a new proof of Korn's inequality. (English summary) **2005m:35297**

(Conca, Carlos) *see* **Voss, Heinrich, 2005d:35186**

Craciun, Eduard-Marius *see* **Cristescu, Nicolae Dan et al., 2005k:74020**

Cristescu, Nicolae Dan (*with* Craciun, Eduard-Marius; Soós, Eugen) ★ Mechanics of elastic composites. **2005k:74020**

(Durán, Mario) *see* **Voss, Heinrich, 2005d:35186**

Durán, Ricardo G. (*with* Muschietti, Maria Amelia) The Korn inequality for Jones domains. (English summary) **2005g:35284**

Ebobisse, François (*with* Reddy, B. Daya) Some mathematical problems in perfect plasticity. (English summary) **2005h:74013**

Ernst, Emil On the existence of positive eigenvalues for the isotropic linear elasticity system with negative shear modulus. (English summary) **2005g:35285**

Gachkevich, A. R. (*with* Mikhaĭlishin, V. S.) Mathematical modeling and investigation of the stress state of bodies in the process of cooling under high-temperature annealing. (Ukrainian. English, Russian and Ukrainian summaries)

Gecit, Mehmet Rusen *see* **Yetmez, Mehmet**

Hill, James M. *see* **Thamwattana, Ngamta, 2005c:74011**

Horváth, Pavel (*with* Hrabovský, Miroslav; Šmíd, Petr) Full theory of speckle displacement and decorrelation in the image field by wave and geometrical descriptions and its application in mechanics. (English summary) **2005c:78002**

Hrabovský, Miroslav *see* **Horváth, Pavel et al., 2005c:78002**

Khludnev, A. M. (*with* Sokołowski, Jan) Smooth domain method for crack problems. (English summary) **2005d:35096**

Kucher, V. A. (*with* Markenscoff, Xanthippi; Paukshto, M. V.) Some properties of the boundary value problem of linear elasticity in terms of stresses. (English summary) **2005b:74016**

Li, Shaofan On dual conservation laws in planar elasticity. (English summary) **2005b:74017**

(Li, Yan Yan) *see* **Nirenberg, Louis, 2005g:35082**

Lin, Ching-Lung (*with* Wang, Jenn-Nan) Strong unique continuation for the Lamé system with Lipschitz coefficients. (English summary) **2005k:35404**

Mabrouk, Mongi (*with* Samadi, Hassan) Linear and semi-linear reinforcement problems by thin layers. (English summary) **2005a:35026**

Makhmudov, O. I. The Cauchy problem for a system of equations in the theory of elasticity and thermoelasticity in space. (Russian) **2005e:35237**

Markenscoff, Xanthippi *see* **Kucher, V. A. et al., 2005b:74016**

Meleshko, V. V. The biharmonic problem for a rectangle: history and the current state. (Russian. English, Russian and Ukrainian summaries)

Mikhaĭlishin, V. S. *see* **Gachkevich, A. R.**

Mishuris, G. Imperfect transmission conditions for a thin weakly compressible interface. 2D problems. (English summary) **2005b:74033**

Mityushev, V. *see* **Berlyand, Leonid, 2005k:74021**

Monneau, Régis Uniform elliptic estimate for an infinite plate in linear elasticity. (English summary) **2005g:35067**

Muschietti, Maria Amelia *see* **Durán, Ricardo G., 2005g:35284**

Nazarov, Sergei A. (*with* Sokołowski, Jan) The topological derivative of the Dirichlet integral under the formation of a thin bridge. (Russian. Russian summary) **2005c:35072**

— Estimates for the second derivatives of eigenvectors for thin anisotropic plates with variable thickness. (Russian. English and Russian summaries) **2005i:35264**

Nirenberg, Louis Comment on: "Estimates for elliptic systems from composite material" [Comm. Pure Appl. Math. **56** (2003), no. 7, 892–925; MR1990481 (2004k:35097)] by Y. Li and Nirenberg. (English summary) **2005g:35082**

Obnosov, Yu. V. Solution of the $\mathbb{R}$-linear conjugation problem in the case of a hyperbolic line of separation of heterogeneous phases. (Russian) **2005h:30075**

Paukshto, M. V. *see* **Kucher, V. A. et al., 2005b:74016**

(Planchard, J.) *see* **Voss, Heinrich, 2005d:35186**

Reddy, B. Daya *see* **Ebobisse, François, 2005h:74013**

Rychagivskiĭ, A. V. *see* **Tokoviĭ, Yu. V.**

Sabelfeld, Karl K. (*with* Shalimova, I. A.) Decentered random walk on spheres for static elasticity problems. (English summary) (*see* **2005i:65006**)

Samadi, Hassan *see* **Mabrouk, Mongi, 2005a:35026**

Shalimova, I. A. *see* **Sabelfeld, Karl K., (2005i:65006)**

Shirokova, E. A. The boundary value problems for thin coats. (English summary) **2005a:74067**

Sini, Mourad Absence of positive eigenvalues for the linearized elasticity system. The half-space case. (English summary) (*see* **2005b:00020**)

Šmíd, Petr *see* **Horváth, Pavel et al., 2005c:78002**

Sokołowski, Jan *see* **Nazarov, Sergei A., 2005c:35072** *and* **Khludnev, A. M., 2005d:35096**

Soldatov, A. P. On the first and second boundary value problems for elliptic systems on the plane. (Russian. Russian summary) **2005k:35084**

Soós, Eugen *see* **Cristescu, Nicolae Dan et al., 2005k:74020**

Thamwattana, Ngamta (*with* Hill, James M.) Stress distributions within curved highly frictional granular stockpiles. (English summary) **2005c:74011**

Tokoviĭ, Yu. V. (*with* Rychagivskiĭ, A. V.) Reduction of plane thermoelasticity problem in inhomogeneous strip to integral Volterra type equation. (English and Lithuanian summaries)

Voropaeva, L. V. A boundary value problem for a Lamé-type elliptic system with a concentrated source. (Russian. English and Russian summaries)

Voss, Heinrich Quadratic eigenproblems of restricted rank. Remarks on a paper of C. Conca, M. Duran and J. Planchard: "A bound for the number of nonreal solutions of a quadratic eigenvalue problem" [Adv. Math. Sci. Appl. **1** (1992), no. 2, 229–249; MR1287899 (95f:35175)]. (English summary) **2005d:35186**

Wang, Jenn-Nan *see* **Lin, Ching-Lung, 2005k:35404**

Yetmez, Mehmet (*with* Gecit, Mehmet Rusen) Finite strip with a central crack under tension. (English summary)

Yin, Wan-Lee Degeneracy, derivative rule, and Green's functions of anisotropic elasticity. (English summary) **2005g:74028**

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74H05 Explicit solutions

Cheng, Jin[1] *see* **Lü, Nian Chun et al.**

Lü, Nian Chun (*with* Xu, Hong Min; Cheng, Jin[1]) Deduction of self-similar solutions in other form to elastodynamics equations for an orthotropic anisotropic body. (Chinese. English and Chinese summaries)

Xu, Hong Min *see* **Lü, Nian Chun et al.**

Items with secondary classifications in 74H05

Cai, Cheng Wu (*with* Liu, Ji Ke; Chan, Hon Chuen) ★ Exact analysis of bi-periodic structures. **2005k:74057**

Chan, Hon Chuen *see* **Cai, Cheng Wu et al., 2005k:74057**

Elishakoff, Isaac (*with* Storch, Joel A.) An unusual exact, closed-form solution for axisymmetric vibration of inhomogeneous simply supported circular plates. (English summary)

Joseph, Kayyunnapara Thomas (*with* Sachdev, P. L.) Exact solutions for some non-conservative hyperbolic systems. (English summary) **2005b:35177**

Liu, Ji Ke *see* **Cai, Cheng Wu et al., 2005k:74057**

Popov, G. Ya. On new transformations of resolving equations in the theory of elasticity and new integral transformations and their application to boundary value problems in mechanics. (Russian. English and Ukrainian summaries) **2005b:74046**

Sachdev, P. L. *see* **Joseph, Kayyunnapara Thomas, 2005b:35177**

Storch, Joel A. *see* **Elishakoff, Isaac**

74H10 Analytic approximation of solutions (perturbation methods, asymptotic methods, series, etc.)

Chiriţă, Stan *see* **Ciarletta, Michele et al., 2005k:74040**
Ciarletta, Michele (*with* Chiriţă, Stan; Passarella, Francesca) Some results on the spatial behaviour in linear porous elasticity. (English summary) **2005k:74040**
Passarella, Francesca *see* **Ciarletta, Michele et al., 2005k:74040**

Items with secondary classifications in 74H10

Beirão da Veiga, L. Asymptotic energy behavior of two classical intermediate benchmark shell problems. (English summary) **2005h:74041**
Bień, M. Existence of global weak solutions for coupled thermoelasticity with Barber's heat exchange condition. (English summary) **2005e:74011**
Casado Díaz, Juan (*with* Luna-Laynez, Manuel; Murat, François) Asymptotic behavior of an elastic beam fixed on a small part of one of its extremities. (English and French summaries) **2005b:35272**
Gavrilov, Serge (*with* Herman, G. C.) Oscillation of a punch moving on the free surface of an elastic half space. (English summary) **2005k:74063**
Golovatyĭ, Yu. D. (*with* Gómez, Delfina; Lobo-Hidalgo, Miguel; Pérez, Eugenia) On vibrating membranes with very heavy thin inclusions. (English summary) **2005c:35070**
Gómez, Delfina *see* **Golovatyĭ, Yu. D. et al., 2005c:35070**
Herman, G. C. *see* **Gavrilov, Serge, 2005k:74063**
Lobo-Hidalgo, Miguel *see* **Golovatyĭ, Yu. D. et al., 2005c:35070**
Luna-Laynez, Manuel *see* **Casado Díaz, Juan et al., 2005b:35272**
Murat, François *see* **Casado Díaz, Juan et al., 2005b:35272**
Pérez, Eugenia *see* **Golovatyĭ, Yu. D. et al., 2005c:35070**
Rahmani, Leila Ventcel's boundary conditions for a dynamic nonlinear plate. (English summary) **2005f:35303**
Sabu, N. Vibrations of thin piezoelectric flexural shells: two-dimensional approximation. (English summary) **2005a:74064**
Vũ Quốc Phóng (*with* Wang, Jun Min^2; Xu, Gen Qi; Yung, Siu Pang) Spectral analysis and system of fundamental solutions for Timoshenko beams. (English summary) **2005i:35267**
Wang, Jun Min^2 *see* **Vũ Quốc Phóng et al., 2005i:35267**
Xu, Gen Qi *see* **Vũ Quốc Phóng et al., 2005i:35267**
Yung, Siu Pang *see* **Vũ Quốc Phóng et al., 2005i:35267**

74H15 Numerical approximation of solutions

Bayram, Mustafa *see* **Çelik, Ercan**
Bécache, Eliane (*with* Joly, Patrick; Rodríguez, Jerónimo) Space-time mesh refinement for the elastodynamic equations. (English summary) (*see* **2005b:00020**)
— (*with* Joly, Patrick; Rodríguez, Jerónimo) Space-time mesh refinement for elastodynamics. Numerical results. (English summary) **2005g:74052**
Bennighof, Jeffrey K. (*with* Lehoucq, Richard B.) An automated multilevel substructuring method for eigenspace computation in linear elastodynamics. (English summary) **2005c:74030**
Çelik, Ercan (*with* Bayram, Mustafa) The basic successive substitute approximations method and Padé approximations to solve the elasticity problem of settled of the wronkler ground with variable coefficients. (English summary)
Cheban, V. (*with* Naval, Ion) About one explicit-difference scheme for solving the plane problem for two-component medium. (English summary)
Cohen, Gary C. (*with* Fauqueux, Sandrine) Mixed spectral elements for the linear elasticity system in unbounded domains. (English summary) (*see* **2005b:00020**)
Costanzo, F. (*with* Huang, Hao^2) Proof of unconditional stability for a single-field discontinuous Galerkin finite element formulation for linear elasto-dynamics. (English summary) **2005j:74024**
Deĭneka, V. S. *see* **Sergienko, Ivan V., 2005g:74056** *and* **2005m:74038**
Fauqueux, Sandrine *see* **Cohen, Gary C., (2005b:00020)**
Fey, Michael *see* **Giese, Guido, 2005c:74031**
Giese, Guido (*with* Fey, Michael) A high-resolution residual splitting scheme for the elastic-plastic wave equation. (English summary) **2005c:74031**
Hicks, D. L. (*with* Liebrock, L. M.) Conservative smoothing with B-splines stabilizes SPH material dynamics in both tension and compression. (English summary) **2005h:74025**
Huang, Hao^2 *see* **Costanzo, F., 2005j:74024**
Joly, Patrick *see* **Bécache, Eliane et al., 2005g:74052** *and* **(2005b:00020)**
Karamanou, Marianna (*with* Shaw, Simon C.; Warby, M. K.; Whiteman, J. R.) Models, algorithms and error estimation for computational viscoelasticity. (English summary) **2005g:74053**
Lehoucq, Richard B. *see* **Bennighof, Jeffrey K., 2005c:74030**
Leszczynski, Jacek S. Computer simulations of multiparticle-contacts dynamics. (English summary) (*see* **2005c:00014**)
Lew, Adrian (*with* Marsden, Jerrold E.; Ortiz, Michael; West, Matthew) Variational time integrators. (English summary) **2005g:74054**
Liebrock, L. M. *see* **Hicks, D. L., 2005h:74025**
Marsden, Jerrold E. *see* **Lew, Adrian et al., 2005g:74054**
Naval, Ion *see* **Cheban, V.**
Ortiz, Michael *see* **Lew, Adrian et al., 2005g:74054**
Pownuk, Andrzej Numerical solutions of fuzzy partial differential equations and its applications in computational mechanics. (English summary) **2005g:74055**
Rahmouni, Adib N. Un modèle PML bien posé pour l'élastodynamique anisotrope. (English and French summaries) [A well-posed PML model for anisotropic elastodynamics] **2005a:74041**
Rodríguez, Jerónimo *see* **Bécache, Eliane et al., 2005g:74052** *and* **(2005b:00020)**
Sansour, Carlo (*with* Wriggers, Peter; Sansour, Jamal) On the design of energy-momentum integration schemes for arbitrary continuum formulations. Applications to classical and chaotic motion of shells. (English summary) **2005b:74052**
Sansour, Jamal *see* **Sansour, Carlo et al., 2005b:74052**
Sergienko, Ivan V. (*with* Deĭneka, V. S.) On the numerical solution of a problem in the dynamic theory of elasticity with a concentrated mass and a weakly rigid inclusion. (Russian. English summary) **2005g:74056**
— (*with* Deĭneka, V. S.) On a numerical solution of a problem in the dynamic theory of elasticity for bodies with concentrated masses. (Russian. English, Russian and Ukrainian summaries) **2005m:74038**
Shaw, Simon C. *see* **Karamanou, Marianna et al., 2005g:74053**
Sprekels, Jürgen (*with* Tiba, Dan) An approximation method for curved rods. (English summary) **2005f:74040**
Tiba, Dan *see* **Sprekels, Jürgen, 2005f:74040**
Warby, M. K. *see* **Karamanou, Marianna et al., 2005g:74053**
Waubke, Holger Boundary element method for isotropic media with random shear moduli. (English summary)
West, Matthew *see* **Lew, Adrian et al., 2005g:74054**
Whiteman, J. R. *see* **Karamanou, Marianna et al., 2005g:74053**
Wriggers, Peter *see* **Sansour, Carlo et al., 2005b:74052**
Wu, Shen Rong A priori error estimation of a four-node Reissner-Mindlin plate element for elasto-dynamics. (English summary) **2005j:74025**

Items with secondary classifications in 74H15

Adolfsson, Klas (*with* Enelund, M.; Larsson, Stig) Adaptive discretization of fractional order viscoelasticity using sparse time history. (English summary) **2005d:74008**
Aliabadi, M. H. *see* **Pérez-Gavilán, J. J., 2005g:74077**
Au, F. T. K. *see* **Wang, Meng Fu**
Babuška, Ivo *see* **Oden, J. Tinsley et al., 2005i:65169**
Barbarin, Serge *see* **Raous, Michel et al., 2005b:74125**
Bécache, Eliane (*with* Chaigne, Antoine; Derveaux, Grégoire; Joly, Patrick) Numerical simulation of a guitar. (English summary) **2005i:74036**
— (*with* Derveaux, Grégoire; Joly, Patrick) An efficient numerical method for the resolution of the Kirchhoff-Love dynamic plate equation. (English summary) **2005m:65230**
Beneš, Michal *see* **Minárik, Vojtěch et al., (2005j:65003)**
Betsch, Peter A unified approach to the energy-consistent numerical integration of nonholonomic mechanical systems and flexible multibody dynamics. (English summary) **2005f:70001**
Bock, Igor (*with* Lovíšek, Ján) On a contact problem for a viscoelastic von Kármán plate and its semidiscretization. (English summary) **2005k:49020**
van Brummelen, E. H. Convergence of successive approximation for a free-boundary problem in fluid-structure interaction. (English summary) (*see* **2005b:65003**)
— *see also* **Michler, C., (2005b:65003)**
Bui, Huy Duong (*with* Constantinescu, Andrei; Maigre, Hubert) Numerical identification of linear cracks in 2D elastodynamics using the instantaneous reciprocity gap. (English summary) **2005d:74014**
Carstensen, Carsten (*with* Dolzmann, Georg) Time-space discretization of the nonlinear hyperbolic system $u_{tt} = \operatorname{div}(\sigma(Du) + Du_t)$. (English summary) **2005e:65140**
Chaigne, Antoine *see* **Bécache, Eliane et al., 2005i:74036**
Chambon, René Small strain vs large strain formulation in computational mechanics. (*see* **2005b:74003**)
Constantinescu, Andrei *see* **Bui, Huy Duong et al., 2005d:74014**
Copetti, Maria I. M. Numerical approximation of dynamic deformations of a thermoviscoelastic rod against an elastic obstacle. (English summary) **2005e:74030**
— Numerical approximation of a thermoviscoelastic problem to the contact of two rods by a penalty method. (English summary) **2005g:74089**
Derveaux, Grégoire *see* **Bécache, Eliane et al., 2005i:74036** *and* **2005m:65230**
Dolzmann, Georg *see* **Carstensen, Carsten, 2005e:65140**
Enelund, M. *see* **Adolfsson, Klas et al., 2005d:74008**
Feng, Yusheng *see* **Oden, J. Tinsley et al., 2005i:65169**
Fung, T. C. Unconditionally stable collocation algorithms for second order initial value problems. (English summary) **2005j:65118**
Gao, Liping (*with* Liang, Dong; Zhang, Bo[1]) Error estimates for mixed finite element approximations of the viscoelasticity wave equation. (English summary) **2005i:65141**
Gervasio, Paola (*with* Naso, Maria Grazia) Numerical approximation of controllability of trajectories for Euler-Bernoulli thermoelastic plates. (English summary) **2005g:74084**
Giese, Guido Nonlinear stability analysis for the method of transport for the elastic-plastic wave equation. (English summary) **2005m:74053**
Glowinski, Roland (*with* Shiau, LieJune; Kuo, Ying Ming; Nasser, G.) The numerical simulation of friction constrained motions. I. One degree of freedom models. (English summary) **2005b:70018**
Gottlieb, David *see* **Yosibash, Zohar et al., 2005d:74019**
Joly, Patrick *see* **Bécache, Eliane et al., 2005i:74036** *and* **2005m:65230**
Kargarnovin, M. H. (*with* Mehri, B.; Younesian, D.) Response of a suspended cable to narrow-band random excitation with peaked P.S.D. (English summary) **2005m:74045**
Kienesberger, Johanna (*with* Valdman, Jan) Multi-yield elastoplastic continuum-modeling and computations. (English summary) (*see* **2005j:65003**)
Kirby, R. M. *see* **Yosibash, Zohar et al., 2005d:74019**
Kratochvíl, Jan *see* **Minárik, Vojtěch et al., (2005j:65003)**
Kumar, Rajneesh (*with* Rani, Leena) Interaction due to mechanical and thermal sources in thermoelastic half-space with voids. (English summary) **2005k:74026**
Kuo, Ying Ming *see* **Glowinski, Roland et al., 2005b:70018**
Labuschagne, A. (*with* van Rensburg, N. F. J.; van der Merwe, Abraham Johannes) Distributed parameter models for a vertical slender structure on a resilient seating. (English summary) **2005m:74042**
Ladevèze, Pierre (*with* Pelle, Jean-Pierre) ★ Mastering calculations in linear and nonlinear mechanics. **2005k:74034**
— (*with* Riou, H.) Calculation of medium-frequency vibrations over a wide frequency range. (English summary) **2005k:74041**
Lagoudas, D. C. *see* **Newman, Michael Glen et al., 2005k:65214**
Larsson, Stig *see* **Adolfsson, Klas et al., 2005d:74008**
Lee, Zong-Yi Hybrid numerical method applied to 3-D multilayered hollow cylinder with periodic loading conditions. (English summary)
Liang, Dong *see* **Gao, Liping et al., 2005i:65141**
Lovíšek, Ján *see* **Bock, Igor, 2005k:49020**

Lunk, Christoph (*with* Simeon, Bernd) Runge-Kutta-Nyström methods with maximized stability domain in structural dynamics. (English summary) **2005k:65132**
Mabssout, Mokhtar *see* **Pastor, Manuel**, (**2005b:74003**)
Maigre, Hubert *see* **Bui, Huy Duong et al.**, **2005d:74014**
Matus, Petr P. (*with* Melnik, Roderick V. N.) Analysis of conservative difference schemes for materials with memory. (English summary) (*see* **2005i:00016**)
— (*with* Melnik, Roderick V. N.; Wang, Linxiang; Rybak, I. V.) Applications of fully conservative schemes in nonlinear thermoelasticity: modelling shape memory materials. (English summary) **2005b:74101**
Mehri, B. *see* **Kargarnovin, M. H. et al.**, **2005m:74045**
Melnik, Roderick V. N. *see* **Matus, Petr P. et al.**, **2005b:74101** *and* (**2005i:00016**)
van der Merwe, Abraham Johannes *see* **Labuschagne, A. et al.**, **2005m:74042**
Michler, C. (*with* van Brummelen, E. H.) GMRES acceleration of subiteration for fluid-structure interactions. (English summary) (*see* **2005b:65003**)
Mikula, Karol *see* **Minárik, Vojtěch et al.**, (**2005j:65003**)
Minárik, Vojtěch (*with* Kratochvíl, Jan; Mikula, Karol; Beneš, Michal) Numerical simulation of dislocation dynamics. (English summary) (*see* **2005j:65003**)
Naso, Maria Grazia *see* **Gervasio, Paola**, **2005g:74084**
Nasser, G. *see* **Glowinski, Roland et al.**, **2005b:70018**
Newman, Michael Glen (*with* Safjan, Andrzej J.; Popov, Peter A.; Lagoudas, D. C.) A non-reflecting layer method for non-linear wave-type equations on unbounded domains with applications to shape memory alloy rods. (English summary) **2005k:65214**
Nobile, Fabio *see* **Oden, J. Tinsley et al.**, **2005i:65169**
Oden, J. Tinsley (*with* Babuška, Ivo; Nobile, Fabio; Feng, Yusheng; Tempone, Raúl) Theory and methodology for estimation and control of errors due to modeling, approximation, and uncertainty. (English summary) **2005i:65169**
Pastor, Manuel (*with* Mabssout, Mokhtar) Alternative formulations in soil dynamics. (*see* **2005b:74003**)
Pelle, Jean-Pierre *see* **Ladevèze, Pierre**, **2005k:74034**
Pérez-Gavilán, J. J. (*with* Aliabadi, M. H.) A Galerkin formulation for shear deformable plate bending dynamics. (English summary) **2005g:74077**
Popov, Peter A. *see* **Newman, Michael Glen et al.**, **2005k:65214**
Rani, Leena *see* **Kumar, Rajneesh**, **2005k:74026**
Raous, Michel (*with* Barbarin, Serge; Vola, Didier) Numerical characterization and computation of dynamic instabilities for frictional contact problems. (English summary) **2005b:74125**
van Rensburg, N. F. J. *see* **Labuschagne, A. et al.**, **2005m:74042**
Riou, H. *see* **Ladevèze, Pierre**, **2005k:74041**
Rybak, I. V. *see* **Matus, Petr P. et al.**, **2005b:74101**
Sadovskaya, O. V. The method of through calculation for studying elastoplastic waves in a granular medium. (Russian. Russian summary) **2005j:74032**
Safjan, Andrzej J. *see* **Newman, Michael Glen et al.**, **2005k:65214**
Segatti, Antonio Error estimates for a variable time-step discretization of a phase transition model with hyperbolic momentum. (English summary) **2005k:65189**
Shaw, Simon C. (*with* Whiteman, J. R.) A posteriori error estimates for space-time finite element approximation of quasistatic hereditary linear viscoelasticity problems. (English summary) **2005h:74061**
Shiau, LieJune *see* **Glowinski, Roland et al.**, **2005b:70018**
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Wang, Linxiang *see* **Matus, Petr P. et al.**, **2005b:74101**
Wang, Meng Fu (*with* Au, F. T. K.) Higher-order mixed method for time integration in dynamic structural analysis.
Whiteman, J. R. *see* **Shaw, Simon C.**, **2005h:74061**
Yosibash, Zohar (*with* Kirby, R. M.; Gottlieb, David) Collocation methods for the solution of von-Kármán dynamic non-linear plate systems. (English summary) **2005d:74019**
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Akmaz, Hakan K. *see* **Yakhno, V. G.**, **2005g:74057**
Alber, Hans-Dieter (*with* Chełmiński, Krzysztof) Quasistatic problems in viscoplasticity theory. I. Models with linear hardening. (English summary) **2005b:74053**
Chełmiński, Krzysztof *see* **Alber, Hans-Dieter**, **2005b:74053**
Fernández García, José Ramón *see* **Kuttler, Kenneth L. et al.**, **2005e:74024**
Kuttler, Kenneth L. (*with* Shillor, Meir; Fernández García, José Ramón) Existence for a thermoviscoelastic beam model of brakes. (English summary) **2005e:74024**
Malík, Josef Mathematical modelling of cable stayed bridges: existence, uniqueness, continuous dependence on data, homogenization of cable systems. (English summary) **2005b:74054**
Shillor, Meir *see* **Kuttler, Kenneth L. et al.**, **2005e:74024**
Yakhno, V. G. (*with* Akmaz, Hakan K.) Initial value problem for the dynamic system of anisotropic elasticity. (English summary) **2005g:74057**

Items with secondary classifications in 74H20

Aiki, Toyohiko One-dimensional shape memory alloy problems including a hysteresis operator. **2005k:74066**
Amendola, Giovambattista Existence, uniqueness, and asymptotic stability for a thermo-elastic plate. (English and Ukrainian summaries)
Awbi, Bassam *see* **Chau, Oanh**, **2005c:74058**
Ballard, Patrick (*with* Basseville, Stéphanie) Existence and uniqueness for dynamical unilateral contact with Coulomb friction: a model problem. (English summary) **2005k:34035**
Barboteu, Mikaël (*with* Hoarau-Mantel, Thierry-Vincent; Sofonea, Mircea) On the frictionless unilateral contact of two viscoelastic bodies. **2005i:74059**
Basseville, Stéphanie *see* **Ballard, Patrick**, **2005k:34035**
Bayada, Guy (*with* Chambat, M.; Cid, B.; Vázquez Cendón, C.) On the existence of solution for a nonhomogeneous Stokes-rod coupled problem. (English summary) **2005h:35276**
Bień, M. Existence of global weak solutions for coupled thermoelasticity with Barber's heat exchange condition. (English summary) **2005e:74011**
Blesgen, Thomas (*with* Weikard, U.) A sharp interface model for phase transitions in crystals with linear elasticity. (English summary) **2005g:74094**
Bonetti, Elena (*with* Schimperna, Giulio) Local existence for Frémond's model of damage in elastic materials. (English summary) **2005d:74001**
Brokate, Martin (*with* Carstensen, Carsten; Valdman, Jan) A quasi-static boundary value problem in multi-surface elastoplasticity. I. Analysis. (English summary) **2005g:74019**
— (*with* Carstensen, Carsten; Valdman, Jan) A quasi-static boundary value problem in multi-surface elastoplasticity. II. Numerical solution. (English summary) **2005k:74015**
Cabet, Aurore Local existence of a solution of a semi-linear wave equation in a neighborhood of initial characteristic hypersurfaces. (English and French summaries) **2005m:35185**
Campos Vieira, María Cristina *see* **Rabello, Tania Nunes et al.**, **2005a:74044**
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Chambat, M. *see* **Bayada, Guy et al.**, **2005h:35276**
Chau, Oanh (*with* Awbi, Bassam) Quasistatic thermoviscoelastic frictional contact problem with damped response. (English summary) **2005c:74058**
Chen, Cai Sheng[1] Global nonexistence for a nonlinear beam equation. (Chinese. English and Chinese summaries) **2005a:35207**
Chudinovich, Igor (*with* Constanda, Christian; Colín Venegas, José) The Cauchy problem in the theory of thermoelastic plates with transverse shear deformation. (English summary) **2005k:74054**
— (*with* Constanda, Christian; Gómez, Eduardo Aguilera) Weak solutions for time-dependent boundary integral equations associated with the bending of elastic plates under combined boundary data. (English summary) **2005b:74078**
Cid, B. *see* **Bayada, Guy et al.**, **2005h:35276**
Clark, H. R. *see* **Limaco, J. et al.**, **2005h:35338**
Cocou, Marius (*with* Scarella, Gilles) Existence of a solution to a dynamic unilateral contact problem for a cracked viscoelastic body. (English and French summaries) **2005c:74059**
Colín Venegas, José *see* **Chudinovich, Igor et al.**, **2005k:74054**
Constanda, Christian *see* **Chudinovich, Igor et al.**, **2005b:74078** *and* **2005k:74054**
Copetti, Maria I. M. Numerical approximation of dynamic deformations of a thermoviscoelastic rod against an elastic obstacle. (English summary) **2005e:74030**
Denkowski, Zdzisław (*with* Migórski, Stanisław) A system of evolution hemivariational inequalities modeling thermoviscoelastic frictional contact. (English summary) **2005m:74069**
Desch, W. (*with* Fašangová, Eva) Stress boundary value problem in linear viscoelasticity. (English summary) **2005j:74009**
Dzhaiani, G. V. Theory of cusped Euler-Bernoulli beams and Kirchhoff-Love plates. **2005d:74015**
Fabrizio, Mauro (*with* Morro, Angelo) Equivalent histories, minimal state and initial value problem in viscoelasticity. (English summary) **2005m:74020**
Fašangová, Eva *see* **Desch, W.**, **2005j:74009**
Feitosa, A. J. *see* **Limaco, J. et al.**, **2005h:35338**
Ferreira, Jorge *see* **de Lima Santos, Mauro et al.**, **2005k:35403** *and* **de Menezes, Silvano Bezerra et al.**
Foutsitzi, G. (*with* Stavroulakis, G. E.) A variational inequality approach to thermoviscoelasticity with monotone unilateral boundaries of kinematical and thermal type. (English summary) **2005e:74041**
Galeş, C. Potential method in the linear theory of swelling porous elastic soils. (English summary) **2005h:74048**
Gómez, Eduardo Aguilera *see* **Chudinovich, Igor et al.**, **2005b:74078**
Grobbelaar-Van Dalsen, Marié Well-posedness of the equations governing the motions of a one-dimensional hybrid thermo-elastic structure. (English summary) **2005h:35337**
Hamdache, Kamel (*with* Hamroun, Djamila) Local solutions to a model of piezoelectric materials. (English summary) **2005e:35224**
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Hemici, Nacerdine (*with* Matei, Andaluzia) A frictionless contact problem with adhesion between two elastic bodies. (English summary) **2005b:74087**
Hoarau-Mantel, Thierry-Vincent *see* **Barboteu, Mikaël et al.**, **2005i:74059**
Ionescu, Ioan R. (*with* Wolf, Sylvie) Interaction of faults under slip-dependent friction. Non-linear eigenvalue analysis. (English summary) **2005h:74046**
Itou, Hiromichi (*with* Tani, Atusi) Existence of a weak solution in an infinite viscoelastic strip with a semi-infinite crack. (English summary) **2005c:35280**
Kim, Joung Ae *see* **Park, Jong Yeoul**, **2005d:35256**
Krejčí, Pavel (*with* Sprekels, Jürgen; Stefanelli, Ulisse) Phase-field models with hysteresis in one-dimensional thermoviscoplasticity. (English summary) **2005d:74031**
Kuttler, Kenneth L. (*with* Shillor, Meir) Dynamic contact with Signorini's condition and slip rate dependent friction. (English summary) **2005d:74026**
Leiva, Hugo (*with* Sivoli, Zoraida) Existence, stability and smoothness of a bounded solution for nonlinear time-varying thermoelastic plate equations. (English summary) **2005a:35202**
Li, Ta Tsien (*with* Wang, Libin) Global classical solutions to a kind of mixed initial-boundary value problem for quasilinear hyperbolic systems. (English summary) **2005j:35144**
Limaco, J. (*with* Clark, H. R.; Feitosa, A. J.) Beam evolution equation with variable coefficients. (English summary) **2005h:35338**
de Lima Santos, Mauro (*with* Rocha, Marcus P. C.; Pereira, Ducival C.; Ferreira, Jorge) Solvability for a nonlinear coupled system of Kirchhoff type for the beam equations with nonlocal boundary conditions. (English summary) **2005k:35403**
Liu, I-Shih *see* **Rincon, Mauro Antonio**, **2005e:35142**
Liu, Ya Cheng (*with* Zhao, Jun Sheng) Multidimensional viscoelasticity equations with nonlinear damping and source terms. (English summary) **2005a:74028**
Lopes Frota, Cicero *see* **Rabello, Tania Nunes et al.**, **2005a:74044**

Mai Duc Thanh *see* **Rohde, Christian**, 2005k:35183
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Medeiros, Luis Adauto *see* **Rabello, Tania Nunes et al.**, 2005a:74044
de Menezes, Silvano Bezerra (*with* de Oliveira, Eliane A.; Pereira, Ducival C.; Ferreira, Jorge) Existence, uniqueness and uniform decay for the nonlinear beam degenerate equation with weak damping. (English summary)
Migórski, Stanisław (*with* Ochal, Anna) Hemivariational inequality for viscoelastic contact problem with slip-dependent friction. (English summary) **2005k:74064**
— *see also* **Denkowski, Zdzisław**, 2005m:74069
Morro, Angelo *see* **Fabrizio, Mauro**, 2005m:74020
Muñoz Rivera, Jaime Edilberto *see* **Qin, Yu-ming**, 2005j:35216
Neff, Patrizio Local existence and uniqueness for quasistatic finite plasticity with grain boundary relaxation. (English summary) **2005j:74008**
Nie, Su Fang *see* **Wang, Dan Xia et al.**
Ochal, Anna *see* **Migórski, Stanisław**, 2005k:74064
de Oliveira, Eliane A. *see* **de Menezes, Silvano Bezerra et al.**
Park, Jong Yeoul (*with* Kim, Joung Ae) Existence and uniform decay for Euler-Bernoulli beam equation with memory term. (English summary) **2005d:35256**
Pawłow, Irena (*with* Zajączkowski, Wojciech M.) Global existence to a three-dimensional non-linear thermoelasticity system arising in shape memory materials. (English summary) **2005h:35339**
— (*with* Zajączkowski, Wojciech M.) Unique global solvability in two-dimensional non-linear thermoelasticity. (English summary) **2005m:74024**
Pereira, Ducival C. *see* **de Lima Santos, Mauro et al.**, 2005k:35403 *and* **de Menezes, Silvano Bezerra et al.**
Pompe, Waldemar Quasistatic and dynamic problems in viscoplasticity theory—non-linearities with power growth. (English summary) **2005d:74006**
Qin, Tiehu *see* **Xin, Jie**, 2005h:35345
Qin, Yu-ming (*with* Muñoz Rivera, Jaime Edilberto) Global existence and exponential stability of solutions to thermoelastic equations of hyperbolic type. (English summary) **2005j:35216**
Rabello, Tania Nunes (*with* Campos Vieira, María Cristina; Lopes Frota, Cicero; Medeiros, Luis Adauto) Small vertical vibrations of strings with moving ends. (English summary) **2005a:74044**
Rincon, Mauro Antonio (*with* Liu, I-Shih) Existence and uniqueness of solutions of elastic string with moving ends. (English summary) **2005e:35142**
Rocha, Marcus P. C. *see* **de Lima Santos, Mauro et al.**, 2005k:35403
Rohde, Christian (*with* Mai Duc Thanh) Global existence for phase transition problems via a variational scheme. (English summary) **2005k:35183**
Ruan, Li Zhi (*with* Zhu, Changjiang) Existence of global smooth solution to initial boundary value problem for a viscoelastic model with relaxation. (English summary) **2005a:35183**
Scarella, Gilles *see* **Cocou, Marius**, 2005c:74059
Schimperna, Giulio *see* **Bonetti, Elena**, 2005d:74001
Shillor, Meir (*with* Sofonea, Mircea; Telega, J. Joachim) Quasistatic viscoelastic contact with friction and wear diffusion. (English summary) **2005b:74093**
— *see also* **Kuttler, Kenneth L.**, 2005d:74026
Sivoli, Zoraida *see* **Leiva, Hugo**, 2005a:35202
Sofonea, Mircea *see* **Shillor, Meir et al.**, 2005b:74093 *and* **Barboteu, Mikaël et al.**, 2005i:74059
Sprekels, Jürgen *see* **Krejčí, Pavel et al.**, 2005d:74031
Stavroulakis, G. E. *see* **Foutsitzi, G.**, 2005e:74041
Stefanelli, Ulisse *see* **Krejčí, Pavel et al.**, 2005d:74031
Tani, Atusi *see* **Itou, Hiromichi**, 2005c:35280
Telega, J. Joachim *see* **Shillor, Meir et al.**, 2005b:74093
Valdman, Jan *see* **Brokate, Martin et al.**, 2005g:74019 *and* 2005k:74015
Vázquez Cendón, C. *see* **Bayada, Guy et al.**, 2005h:35276
Wang, Dan Xia (*with* Zhang, Jian Wen^2; Wang, Yin Zhu; Nie, Su Fang) Existence of solutions for a strong damping nonlinear equation of a beam with sliding clamped. (Chinese. English and Chinese summaries)
Wang, Libin *see* **Li, Ta Tsien**, 2005j:35144
Wang, Yin Zhu *see* **Wang, Dan Xia et al.**
Weikard, U. *see* **Blesgen, Thomas**, 2005g:74094
Wolf, Sylvie *see* **Ionescu, Ioan R.**, 2005h:74046
Wu, Shen Rong Reissner-Mindlin plate theory for elastodynamics. **2005e:74035**
Xin, Jie (*with* Qin, Tiehu) Almost global existence of Dirichlet initial-boundary value problem for nonlinear elastodynamic system outside a star-shaped domain. (English summary) **2005h:35345**
Yamamoto, Kazuhiro A parametrix for the linear elastic equation with diffractive boundary and its application. (English summary) **2005k:35005**
Zajączkowski, Wojciech M. *see* **Pawłow, Irena**, 2005h:35339 *and* 2005m:74024
Zhang, Jian Wen^2 *see* **Wang, Dan Xia et al.**
Zhao, Jun Sheng *see* **Liu, Ya Cheng**, 2005a:74028
Zhu, Changjiang *see* **Ruan, Li Zhi**, 2005a:35183

74H25 Uniqueness of solutions

Items with secondary classifications in 74H25

Aiki, Toyohiko One-dimensional shape memory alloy problems including a hysteresis operator. **2005k:74066**
Akmaz, Hakan K. *see* **Yakhno, V. G.**, 2005g:74057
Alber, Hans-Dieter (*with* Chełmiński, Krzysztof) Quasistatic problems in viscoplasticity theory. I. Models with linear hardening. (English summary) **2005b:74053**
Ballard, Patrick (*with* Basseville, Stéphanie) Existence and uniqueness for dynamical unilateral contact with Coulomb friction: a model problem. (English summary) **2005k:34035**
Barboteu, Mikaël (*with* Hoarau-Mantel, Thierry-Vincent; Sofonea, Mircea) On the frictionless unilateral contact of two viscoelastic bodies. **2005i:74059**
Basseville, Stéphanie *see* **Ballard, Patrick**, 2005k:34035
Bonetti, Elena (*with* Schimperna, Giulio) Local existence for Frémond's model of damage in elastic materials. (English summary) **2005d:74001**
Cabet, Aurore Local existence of a solution of a semi-linear wave equation in a neighborhood of initial characteristic hypersurfaces. (English and French summaries) **2005m:35185**
Campos Vieira, María Cristina *see* **Rabello, Tania Nunes et al.**, 2005a:74044
Chełmiński, Krzysztof *see* **Alber, Hans-Dieter**, 2005b:74053
Chiriţă, Stan Further results on the spatial behaviour in linear elastodynamics. (English summary) **2005m:74007**
Chudinovich, Igor (*with* Constanda, Christian; Gómez, Eduardo Aguilera) Weak solutions for time-dependent boundary integral equations associated with the bending of elastic plates under combined boundary data. (English summary) **2005b:74078**
Clark, H. R. *see* **Límaco, J. et al.**, 2005h:35338
Constanda, Christian *see* **Chudinovich, Igor et al.**, 2005b:74078
Feitosa, A. J. *see* **Límaco, J. et al.**, 2005h:35338
Ferreira, Jorge *see* **de Menezes, Silvano Bezerra et al.**
Fu, Yibin B. *see* **Mielke, Alexander**, 2005a:74048
Galeş, C. Potential method in the linear theory of swelling porous elastic soils. (English summary) **2005h:74048**
Gómez, Eduardo Aguilera *see* **Chudinovich, Igor et al.**, 2005b:74078
Grobbelaar-Van Dalsen, Marié Well-posedness of the equations governing the motions of a one-dimensional hybrid thermo-elastic structure. (English summary) **2005h:35337**
Hemici, Nacerdine (*with* Matei, Andaluzia) A frictionless contact problem with adhesion between two elastic bodies. (English summary) **2005b:74087**
Hoarau-Mantel, Thierry-Vincent *see* **Barboteu, Mikaël et al.**, 2005i:74059
Ieşan, D. On the theory of viscoelastic mixtures. (English summary) **2005g:74038**
— (*with* Nappa, L.) On the theory of heat for micromorphic bodies. (English summary) **2005h:74003**
Iovane, Gerardo (*with* Passarella, Francesca) Saint-Venant's principle in dynamic porous thermoelastic media with memory for heat flux. (English summary) 2005g:74039
Kosowski, Zenon (*with* Pawłow, Irena) Unique global solvability of the Fried-Gurtin model for phase transitions in solids. (English summary) **2005i:35263**
Krejčí, Pavel (*with* Sprekels, Jürgen; Stefanelli, Ulisse) Phase-field models with hysteresis in one-dimensional thermoviscoplasticity. (English summary) **2005d:74031**
Límaco, J. (*with* Clark, H. R.; Feitosa, A. J.) Beam evolution equation with variable coefficients. (English summary) **2005h:35338**
Lopes Frota, Cicero *see* **Rabello, Tania Nunes et al.**, 2005a:74044
Malík, Josef Mathematical modelling of cable stayed bridges: existence, uniqueness, continuous dependence on data, homogenization of cable systems. (English summary) **2005b:74054**
Matei, Andaluzia *see* **Hemici, Nacerdine**, 2005b:74087
Medeiros, Luis Adauto *see* **Rabello, Tania Nunes et al.**, 2005a:74044
de Menezes, Silvano Bezerra (*with* de Oliveira, Eliane A.; Pereira, Ducival C.; Ferreira, Jorge) Existence, uniqueness and uniform decay for the nonlinear beam degenerate equation with weak damping. (English summary)
Mielke, Alexander (*with* Fu, Yibin B.) Uniqueness of the surface-wave speed: a proof that is independent of the Stroh formalism. (English summary) **2005a:74048**
Morro, Angelo Uniqueness of the solution to the reflection-transmission problem in a viscoelastic layer. (English summary) (*see* **2005b:00020**)
Nappa, L. *see* **Ieşan, D.**, 2005h:74003
Neff, Patrizio Local existence and uniqueness for quasistatic finite plasticity with grain boundary relaxation. (English summary) **2005j:74008**
de Oliveira, Eliane A. *see* **de Menezes, Silvano Bezerra et al.**
Passarella, Francesca *see* **Iovane, Gerardo**, 2005g:74039
Pawłow, Irena (*with* Zajączkowski, Wojciech M.) Unique global solvability in two-dimensional non-linear thermoelasticity. (English summary) **2005m:74024**
— *see also* **Kosowski, Zenon**, 2005i:35263
Pereira, Ducival C. *see* **de Menezes, Silvano Bezerra et al.**
Pompe, Waldemar Quasistatic and dynamic problems in viscoplasticity theory—non-linearities with power growth. (English summary) **2005d:74006**
Rabello, Tania Nunes (*with* Campos Vieira, María Cristina; Lopes Frota, Cicero; Medeiros, Luis Adauto) Small vertical vibrations of strings with moving ends. (English summary) **2005a:74044**
Rachele, Lizabeth V. Uniqueness of the density in an inverse problem for isotropic elastodynamics. (English summary) **2005c:35296**
Schimperna, Giulio *see* **Bonetti, Elena**, 2005d:74001
Sofonea, Mircea *see* **Barboteu, Mikaël et al.**, 2005i:74059
Sprekels, Jürgen *see* **Krejčí, Pavel et al.**, 2005d:74031
Stefanelli, Ulisse *see* **Krejčí, Pavel et al.**, 2005d:74031
Tarama, Shigeo Strong uniqueness for the plate equations. (English summary) **2005h:35342**
Yakhno, V. G. (*with* Akmaz, Hakan K.) Initial value problem for the dynamic system of anisotropic elasticity. (English summary) **2005g:74057**
Zajączkowski, Wojciech M. *see* **Pawłow, Irena**, 2005m:74024

74H30 Regularity of solutions

Boutat, Mohammed (*with* D'Angelo, Y.; Hilout, S.; Lods, V.) Existence and finite-time blow-up for the solution to a thin-film surface evolution problem. (English summary) **2005b:74055**
D'Angelo, Y. *see* **Boutat, Mohammed et al.**, 2005b:74055
Hilout, S. *see* **Boutat, Mohammed et al.**, 2005b:74055
Lods, V. *see* **Boutat, Mohammed et al.**, 2005b:74055

Items with secondary classifications in 74H30

Antman, Stuart S. Regularity properties of planar motions of incompressible rods. (English summary) **2005i:74049**
Chudinovich, Igor (*with* Constanda, Christian; Gómez, Eduardo Aguilera) Weak solutions for time-dependent boundary integral equations associated with the bending of elastic plates under combined boundary data. (English summary) **2005b:74078**

Constanda, Christian *see* **Chudinovich, Igor et al., 2005b:74078**
Gómez, Eduardo Aguilera *see* **Chudinovich, Igor et al., 2005b:74078**
Kuttler, Kenneth L. (*with* Shillor, Meir) Regularity of solutions to a dynamic frictionless contact problem with normal compliance. (English summary) **2005h:74052**
Messaoudi, Salim A. (*with* Said Houari, Belkacem) Blowup of solutions with positive energy in nonlinear thermoelasticity with second sound. **2005d:35255**
Muñoz Rivera, Jaime Edilberto *see* **Qin, Yu-ming, 2005b:35275**
Qin, Yu-ming (*with* Muñoz Rivera, Jaime Edilberto) Blow-up of solutions to the Cauchy problem in nonlinear one-dimensional thermoelasticity. (English summary) **2005b:35275**
Said Houari, Belkacem *see* **Messaoudi, Salim A., 2005d:35255**
Shillor, Meir *see* **Kuttler, Kenneth L., 2005h:74052**
Wu, Shen Rong Reissner-Mindlin plate theory for elastodynamics. **2005e:74035**

74H35 Singularities, blowup, stress concentrations

Items with secondary classifications in 74H35

Awrejcewicz, Jan (*with* Krys′ko, V. A.; Vakakis, Alexander F.) ★ Nonlinear dynamics of continuous elastic systems. **2005b:74056**
De Cicco, S. (*with* Nappa, L.) Singular surfaces in thermoviscoelastic materials with voids. (English summary) **2005b:74010**
Dyszlewicz, Janusz ★ Micropolar theory of elasticity. **2005a:74007**
Krys′ko, V. A. *see* **Awrejcewicz, Jan et al., 2005b:74056**
Manfrin, Renato On the breakdown of classical solutions of the planar motion of an elastic string. (English summary) **2005c:35194**
Nappa, L. *see* **De Cicco, S., 2005b:74010**
Vakakis, Alexander F. *see* **Awrejcewicz, Jan et al., 2005b:74056**
Wang, Ya-Guang *see* **Yang, Lin, 2005d:35009**
Yamamoto, Kazuhiro A parametrix for the linear elastic equation with diffractive boundary and its application. (English summary) **2005k:35005**
Yang, Lin (*with* Wang, Ya-Guang) Propagation of singularities in Cauchy problems for quasilinear thermoelastic systems in three space variables. (English summary) **2005d:35009**

74H40 Long-time behavior of solutions

Aiki, Toyohiko (*with* Kadoya, Atsushi) Large time behavior of a solution to the one-dimensional shape memory alloy problem. (English summary) **2005i:74035**
Kadoya, Atsushi *see* **Aiki, Toyohiko, 2005i:74035**
Matyukevich, S. I. On the antiplane dynamical problem of elasticity theory in a domain with crack. (*see* **2005b:00020**)

Items with secondary classifications in 74H40

Alikakos, Nicholas D. (*with* Fusco, Giorgio) Ostwald ripening for dilute systems under quasistationary dynamics. (English summary) **2005e:82073**
— (*with* Fusco, Giorgio; Karali, Georgia) The effect of the geometry of the particle distribution in Ostwald ripening. (English summary) **2005e:82074**
Atallah-Baraket, Amel (*with* Fermanian Kammerer, Clotilde) High frequency analysis of families of solutions to the equation of viscoelasticity of Kelvin-Voigt. (English summary) **2005i:35260**
Avdoshka, I. V. Asymptotic integration of dynamic equations of shallow shells under the action of external forces. (Russian. English and Russian summaries) **2005a:74062**
Bae, Jeong Ja Uniform decay of solutions for viscoelastic problem with nonlinear boundary damping and memory term. (English summary) **2005i:35261**
Bastos, W. D. *see* **Ferreira, Jorge et al., 2005e:35163**
Beirão da Veiga, L. Asymptotic energy behavior of two classical intermediate benchmark shell problems. (English summary) **2005h:74041**
Bellassoued, Mourad Decay of solutions of the elastic wave equation with a localized dissipation. (English and French summaries) **2005b:35169**
Berrimi, Said (*with* Messaoudi, Salim A.) Exponential decay of solutions to a viscoelastic equation with nonlinear localized damping. (English summary) **2005e:35161**
Casado Díaz, Juan (*with* Luna-Laynez, Manuel; Murat, François) Asymptotic behavior of an elastic beam fixed on a small part of one of its extremities. (English and French summaries) **2005b:35272**
Cavalcanti, Marcelo Moreira (*with* Portillo Oquendo, Higidio) Frictional versus viscoelastic damping in a semilinear wave equation. (English summary) **2005d:35257**
— (*with* Domingos Cavalcanti, Valéria N.; Ma, T. F.) Exponential decay of the viscoelastic Euler-Bernoulli equation with a nonlocal dissipation in general domains. (English summary) **2005a:74026**
Chiriţă, Stan On the spatial decay of solutions in the theory of swelling porous thermoelastic soils. (English summary) **2005h:74047**
— *see also* **D'Apice, Ciro, 2005f:74026**
Chueshov, Igor D. (*with* Lasiecka, Irena) Global attractors for von Karman evolutions with a nonlinear boundary dissipation. (English summary) **2005a:37150**
Ciarletta, Michele (*with* Scalia, Antonio) Some results in linear theory of thermomicrostretch elastic solids. (English summary) **2005a:74032**
D'Apice, Ciro (*with* Chiriţă, Stan) Spatial behaviour in a Mindlin-type thermoelastic plate. (English summary) **2005f:74026**
Domingos Cavalcanti, Valéria N. *see* **Cavalcanti, Marcelo Moreira et al., 2005a:74026**
Fabrizio, Mauro (*with* Giorgi, Claudio; Naso, Maria Grazia) Viscoelastic solids of exponential type. II. Free energies, stability and attractors. (English summary) **2005k:74017**
Fermanian Kammerer, Clotilde *see* **Atallah-Baraket, Amel, 2005i:35260**
Ferreira, Jorge (*with* de Lima Santos, Mauro; Matos, M. P.; Bastos, W. D.) Exponential decay for Kirchhoff wave equation with nonlocal condition in a noncylindrical domain. (English summary) **2005e:35163**
de Freitas, Mário S. T. (*with* Viana, Ricardo L.; Grebogi, Celso) Basins of attraction of periodic oscillations in suspension bridges. (English summary) **2005e:74025**
Fusco, Giorgio *see* **Alikakos, Nicholas D. et al., 2005e:82073** *and* **2005e:82074**
Giorgi, Claudio (*with* Vegni, Federico Mario) Uniform energy estimates for a semilinear evolution equation of the Mindlin-Timoshenko beam with memory. (English summary) **2005b:35274**
— *see also* **Fabrizio, Mauro et al., 2005k:74017**
Grebogi, Celso *see* **de Freitas, Mário S. T. et al., 2005e:74025**
Karali, Georgia *see* **Alikakos, Nicholas D. et al., 2005e:82074**
Labidi, Soraya (*with* Tatar, Nasser-Eddine) Unboundedness for the Euler-Bernoulli beam equation with a fractional boundary dissipation. (English summary) **2005h:74037**
Lasiecka, Irena *see* **Chueshov, Igor D., 2005a:37150**
Li, Fu-shan Asymptotic analysis of linearly viscoelastic shells. (English summary) **2005h:74044**
de Lima Santos, Mauro *see* **Ferreira, Jorge et al., 2005e:35163**
Lin, J. E. Local time decay for a nonlinear beam equation. (English summary) **2005j:35215**
Liu, Kang Sheng (*with* Rao, Bopeng) Stabilité exponentielle des équations des ondes avec amortissement local de Kelvin-Voigt. (English and French summaries) [Exponential stability for wave equations with local Kelvin-Voigt damping] **2005g:93095**
Liu, Yanhong (*with* Zhu, Changjiang) Decay rates and convergence of solutions to system of one-dimensional viscoelastic model with damping. (English summary) **2005e:35156**
Luna-Laynez, Manuel *see* **Casado Díaz, Juan et al., 2005b:35272**
Ma, Qiao Zhen Asymptotic behavior for weak dissipative beam equations. (Chinese. English and Chinese summaries)
Ma, T. F. *see* **Cavalcanti, Marcelo Moreira et al., 2005a:74026**
Matos, M. P. *see* **Ferreira, Jorge et al., 2005e:35163**
Messaoudi, Salim A. *see* **Berrimi, Said, 2005e:35161**
Muñoz Rivera, Jaime Edilberto (*with* Portillo Oquendo, Higidio) A transmission problem for thermoelastic plates. (English summary) **2005b:74035**
— *see also* **Santiago Ayala, Yolanda S., 2005k:35408**
Murat, François *see* **Casado Díaz, Juan et al., 2005b:35272**
Naso, Maria Grazia *see* **Fabrizio, Mauro et al., 2005k:74017**
Park, Jong Yeoul (*with* Park, Sun Hye) On uniform decay for the coupled Euler-Bernoulli viscoelastic system with boundary damping. (English summary) **2005k:35406**
Park, Sun Hye *see* **Park, Jong Yeoul, 2005k:35406**
Portillo Oquendo, Higidio *see* **Muñoz Rivera, Jaime Edilberto, 2005b:74035** *and* **Cavalcanti, Marcelo Moreira, 2005d:35257**
Quintanilla, R. Spatial stability for the quasi-static problem of thermoelasticity. (English summary) **2005m:74025**
Rao, Bopeng *see* **Liu, Kang Sheng, 2005g:93095**
Rauch, Jeffrey (*with* Zhang, Xu[1]; Zuazua, Enrique) Polynomial decay for a hyperbolic-parabolic coupled system. (English and French summaries) **2005k:35024**
Santiago Ayala, Yolanda S. (*with* Muñoz Rivera, Jaime Edilberto) Exponential decay for a von Kármán system with memory. (English summary) **2005k:35408**
Scalia, Antonio *see* **Ciarletta, Michele, 2005a:74032**
Tatar, Nasser-Eddine Long time behavior for a viscoelastic problem with a positive definite kernel. (English summary) **2005g:35287**
— *see also* **Labidi, Soraya, 2005h:74037**
Vegni, Federico Mario *see* **Giorgi, Claudio, 2005b:35274**
Veselić, Krešimir Energy decay of damped systems. (English summary) **2005h:34157**
Viana, Ricardo L. *see* **de Freitas, Mário S. T. et al., 2005e:74025**
Yebari, Naji Decay estimates for solutions of some systems for elasticity with nonlinear boundary feedback. (English summary) (*see* **2005i:35003**)
Yin, Zhao Yang On the blow-up of solutions of a periodic nonlinear dispersive wave equation in compressible elastic rods. (English summary) **2005c:35211**
Zhang, Xu[1] *see* **Rauch, Jeffrey et al., 2005k:35024**
Zhu, Changjiang *see* **Liu, Yanhong, 2005e:35156**
Zuazua, Enrique *see* **Rauch, Jeffrey et al., 2005k:35024**

74H45 Vibrations

Agrawal, Sunil K. *see* **Zhang, Yuhong[1] et al.**
Arafat, Haider N. (*with* Nayfeh, Ali H.) Combination internal resonances in heated annular plates. (English summary)
Aşkar Altay, G. (*with* Dökmeci, M. Cengiz) Variational principles and vibrations of a functionally graded plate. (English summary)
Atanacković, Teodor M. *see* **Stanković, Bogoljub, 2005m:74043**
Awrejcewicz, Jan (*with* Krys′ko, V. A.; Vakakis, Alexander F.) ★ Nonlinear dynamics of continuous elastic systems. **2005b:74056**
— (*with* Krys′ko, V. A.; Krysko, Anton V.) Complex parametric vibrations of flexible rectangular plates. (English summary) **2005a:74042**
Babenkova, E. (*with* Kaplunov, Yu. D.) Low-frequency decay conditions for a semi-infinite elastic strip. (English summary) **2005b:74057**
— (*with* Kaplunov, Yu. D.) Radiation conditions for a semi-infinite elastic strip. (English summary) **2005m:74039**
Barrientos, Mauricio A. (*with* Gatica, Gabriel N.; Rodríguez, Rodolfo; Torrejón, Marcela E.) Analysis of a coupled BEM/FEM eigensolver for the hydroelastic vibrations problem. (English summary) **2005m:74040**
Bécache, Eliane (*with* Chaigne, Antoine; Derveaux, Grégoire; Joly, Patrick) Numerical simulation of a guitar. (English summary) **2005i:74036**
Bolgrabskaya, I. A. Allowance for shear deformations in modeling small oscillations of elastic rod systems. (Russian. Russian summary)
Braikat, Bouazza *see* **Daya, El Mostafa et al.**
Campos Vieira, María Cristina *see* **Rabello, Tania Nunes et al., 2005a:74044**
Cao, H. (*with* Li, Qing Shan) New control strategies for active tuned mass damper systems. (English summary)
Chaigne, Antoine *see* **Bécache, Eliane et al., 2005i:74036**
Chakraborty, H. S. *see* **Goswami, Anish et al.**
Chamara, P. A. *see* **Coller, B. D., 2005f:74041**
Champneys, Alan R. (*with* Fraser, Wynstone Barrie) Resonance tongue interaction in the parametrically excited column. (English summary) **2005h:74026**
(Chechin, V. A.) *see* **Svetlitskiĭ, V. A., 2005c:74037**

Chekhov, V. N. *see* **Papkov, S. O.**

Chen, Li Qun (*with* Zhao, Wei-Jia) A numerical method for simulating transverse vibrations of an axially moving string. (English summary) **2005g:74058**

Chen, Su Huan (*with* Guo, K. J.; Chen, Yu Dong) A method for estimating upper and lower bounds of eigenvalues of closed-loop systems with uncertain parameters. (English summary)

Chen, Yu Dong *see* **Chen, Su Huan et al.**

Chiriţă, Stan *see* **D'Apice, Ciro, 2005h:74027**

Clark, James David (*with* Fraser, Wynstone Barrie; Rahn, Christopher David; Rajamani, Arun) Limit-cycle oscillations of a heavy whirling cable subject to aerodynamic drag. (English summary) **2005i:74037**

Coller, B. D. (*with* Chamara, P. A.) Structural non-linearities and the nature of the classic flutter instability. (English summary) **2005f:74041**

Dadfarnia, Mohsen (*with* Jalili, Nader; Xian, Bin; Dawson, Darren M.) Lyapunov-based vibration control of translational Euler-Bernoulli beams using the stabilizing effect of beam damping mechanisms. (English summary) **2005a:74043**

Damil, Noureddine *see* **Daya, El Mostafa et al.**

D'Apice, Ciro (*with* Chiriţă, Stan) Spatial behaviour for the harmonic vibrations in plates of Kirchhoff type. (English summary) **2005h:74027**

Dawson, Darren M. *see* **Dadfarnia, Mohsen et al., 2005a:74043**

Daya, El Mostafa (*with* Braikat, Bouazza; Damil, Noureddine; Potier-Ferry, Michel) Modelisation of modulated vibration modes of repetitive structures. (English summary)

Derveaux, Grégoire *see* **Bécache, Eliane et al., 2005i:74036**

Dökmeci, M. Cengiz *see* **Aşkar Altay, G.**

Fil′shtinskiĭ, L. A. *see* **Grigolyuk, È. I. et al.**

Fleming, Andrew J. *see* **Moheimani, S. O. Reza et al., 2005h:74028**

Fraser, Wynstone Barrie *see* **Champneys, Alan R., 2005h:74026** *and* **Clark, James David et al., 2005i:74037**

de Freitas, Mário S. T. (*with* Viana, Ricardo L.; Grebogi, Celso) Basins of attraction of periodic oscillations in suspension bridges. (English summary) **2005e:74025**

Garsiya, M. Argeta The problem of steady oscillations of a half-cylinder with a rhombic elastic structure, and related selfadjoint quadratic pencils. (Russian)

Gatica, Gabriel N. *see* **Barrientos, Mauricio A. et al., 2005m:74040**

Gladwell, Graham M. L. ★ Inverse problems in vibration. **2005g:74059**

Goswami, Anish (*with* Sengupta, A. K.; Chakraborty, H. S.) Radial vibration of a composite spherical shell. (English summary)

Gourdon, E. (*with* Lamarque, Claude-Henri) Energy pumping with various nonlinear structures: numerical evidences. (English summary) **2005m:74041**

Grebogi, Celso *see* **de Freitas, Mário S. T. et al., 2005e:74025**

Grigolyuk, È. I. (*with* Fil′shtinskiĭ, L. A.; Kovalev, Yu. D.) Harmonic vibrations of a layer with a hole. (Russian)

Guenneau, Sébastien (*with* Movchan, Alexander; Poulton, C. G.; Nicolet, André) Coupling between electromagnetic and mechanical vibrations of thin-walled structures. (English summary) **2005c:74032**

Guillaume, Patrick *see* **Vanlanduit, S., (2005c:62006)**

Guo, K. J. *see* **Chen, Su Huan et al.**

Hagedorn, Peter *see* **Zhang, Yuhong[1] et al.**

Halim, Dunant *see* **Moheimani, S. O. Reza et al., 2005h:74028**

Han, Yan Bin *see* **Wang, Min[3] et al.**

Hashemi, Seyed M. (*with* Roach, A.) Application of a mesh reduction dynamic finite element method in coupled vibration analysis of structural elements. (English summary) (*see* **2005d:65006**)

van Horssen, Wim T. *see* **Zarubinskaya, M. A., 2005m:74044**

Hua, Hongxing *see* **Shi, Yinming et al.**

Ilyasova, Nigar M. Free damped vibrations of viscoelastic materials. (English summary)

Ingman, D. (*with* Suzdal′nitskiĭ, I. D.) Control of damping oscillations by fractional differential operator with time-dependent order. (English summary)

Jalili, Nader *see* **Dadfarnia, Mohsen et al., 2005a:74043**

Joly, Patrick *see* **Bécache, Eliane et al., 2005i:74036**

Jones, C. J. C. *see* **Sheng, X. et al.**

Kaneko, H. *see* **Maĭlybaev, A. A. et al.**

Kaplunov, Yu. D. (*with* Prikazchikov, Danila A.; Rogerson, Graham A.) Edge vibration of a pre-stressed semi-infinite strip with traction-free edge and mixed face boundary conditions. (English summary) **2005f:74042**

— *see also* **Babenkova, E., 2005b:74057** *and* **2005m:74039**

Kiĭko, I. A. (*with* Kudryavtsev, B. Yu.) Nonlinear aeroelastic vibrations of a rectangular plate. (Russian. Russian summary)

Klouček, Petr (*with* Reynolds, Daniel R.; Seidman, Thomas I.) Computational modeling of vibration damping in SMA wires. (English summary) **2005c:74033**

Kovalev, Yu. D. *see* **Grigolyuk, È. I. et al.**

Krysko, Anton V. *see* **Awrejcewicz, Jan et al., 2005a:74042**

Krys′ko, V. A. *see* **Awrejcewicz, Jan et al., 2005a:74042** *and* **2005b:74056**

Kudryavtsev, B. Yu. *see* **Kiĭko, I. A.**

Labuschagne, A. (*with* van Rensburg, N. F. J.; van der Merwe, Abraham Johannes) Distributed parameter models for a vertical slender structure on a resilient seating. (English summary) **2005m:74042**

Ladevèze, Pierre (*with* Riou, H.) Calculation of medium-frequency vibrations over a wide frequency range. (English summary) **2005k:74041**

Lamarque, Claude-Henri *see* **Gourdon, E., 2005m:74041**

Lawson, Stuart *see* **Tseng, Chien Hsun**

Li, Qing Shan *see* **Cao, H.**

Lopes Frota, Cicero *see* **Rabello, Tania Nunes et al., 2005a:74044**

Lychëv, S. A. Non-steady-state oscillations of an aging viscoelastic rod. (Russian. English and Russian summaries)

Maĭlybaev, A. A. (*with* Yabuno, H.; Kaneko, H.) Optimal shapes of parametrically excited beams. (English summary)

Manucharyan, G. V. *see* **Mikhlin, Yu. V. et al.**

Mason, D. P. *see* **Roussos, N., 2005c:74034**

Medeiros, Luis Adauto *see* **Rabello, Tania Nunes et al., 2005a:74044**

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(Merzon, G. I.) *see* **Svetlitskiĭ, V. A., 2005c:74037**

Mikhlin, Yu. V. (*with* Shmatko, T. V.; Manucharyan, G. V.) Stability of regular and chaotic forms of oscillations in elastic systems with several equilibrium. (Russian. Russian summary)

Moheimani, S. O. Reza (*with* Halim, Dunant; Fleming, Andrew J.) ★ Spatial control of vibration. **2005h:74028**

Movchan, Alexander *see* **Guenneau, Sébastien et al., 2005c:74032**

Nayfeh, Ali H. *see* **Arafat, Haider N.**

Nguyen Quoc Son On friction-induced instabilities and vibrations. (English summary) **2005i:74038**

Nicolet, André *see* **Guenneau, Sébastien et al., 2005c:74032**

Niedziela, M. (*with* Sułkowski, T.) Numerical experiments for mathematical models of railway track oscillations. (English summary)

Papkov, S. O. (*with* Chekhov, V. N.) On the localization of the eigenfrequencies of a rectangular prism by eliminating unknowns in a quasi-regular infinite system. (Russian. English summary)

Potier-Ferry, Michel *see* **Daya, El Mostafa et al.**

Poulton, C. G. *see* **Guenneau, Sébastien et al., 2005c:74032**

Prikazchikov, Danila A. *see* **Kaplunov, Yu. D. et al., 2005f:74042**

Rabello, Tania Nunes (*with* Campos Vieira, María Cristina; Lopes Frota, Cicero; Medeiros, Luis Adauto) Small vertical vibrations of strings with moving ends. (English summary) **2005a:74044**

Rahn, Christopher David *see* **Clark, James David et al., 2005i:74037**

Rajamani, Arun *see* **Clark, James David et al., 2005i:74037**

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Rogerson, Graham A. *see* **Kaplunov, Yu. D. et al., 2005f:74042**

Roussos, N. (*with* Mason, D. P.) Radial oscillations of thin cylindrical and spherical shells: investigation of Lie point symmetries for arbitrary strain-energy functions. (English summary) **2005c:74034**

Rychlewska, Jowita (*with* Szymczyk, Jolanta; Woźniak, Czesław) Simplified models for the vibration analysis of micro-periodic elastic media. (English summary) **2005c:74035**

Ryzhkova, Irina Stabilization of von Kármán plate in the presence of thermal effects in a subsonic potential flow of gas. (English summary) **2005c:74036**

Savin, Eric Diffusive regime for the high-frequency dynamics of randomly heterogeneous plates. (*see* **2005b:00020**)

— Transient transport equations for high-frequency power flow in heterogeneous cylindrical shells. (English summary) **2005a:74045**

Seidman, Thomas I. *see* **Klouček, Petr et al., 2005c:74033**

Sengupta, A. K. *see* **Goswami, Anish et al.**

Sheng, X. (*with* Jones, C. J. C.; Thompson, D. J.) Modelling ground vibration from railways using wavenumber finite- and boundary-element methods. (English summary)

Shi, Yinming (*with* Hua, Hongxing; Sol, Hugo) The finite element analysis and experimental study of beams with active constrained layer damping treatments. (English summary)

Shmatko, T. V. *see* **Mikhlin, Yu. V. et al.**

Shubov, Marianna A. Spectral properties of the generalized resolvent operator for an aircraft wing model in subsonic airflow. (English summary) **2005d:74013**

Singh, Rattan Longitudinal vibrations in a semi-infinite piezo-electric bar under an arbitrary body-force in a magnetic field. (English summary)

Sol, Hugo *see* **Shi, Yinming et al.**

Stanković, Bogoljub (*with* Atanacković, Teodor M.) On the lateral vibrations of an elastic rod with varying compressive force. (English summary) **2005m:74043**

Sułkowski, T. *see* **Niedziela, M.**

Suzdal′nitskiĭ, I. D. *see* **Ingman, D.**

Svetlitskiĭ, V. A. ★ Engineering vibration analysis: worked problems. 1. **2005c:74037**

Szymczyk, Jolanta *see* **Rychlewska, Jowita et al., 2005c:74035**

Thompson, D. J. *see* **Sheng, X. et al.**

Tkacheva, L. A. The behavior of a floating elastic plate under vibrations of a bottom segment. (Russian. Russian summary) **2005j:74026**

Torrejón, Marcela E. *see* **Barrientos, Mauricio A. et al., 2005m:74040**

Tseng, Chien Hsun (*with* Lawson, Stuart) Initial and boundary conditions in multidimensional wave digital filter algorithms for plate vibration. (English summary)

Vakakis, Alexander F. *see* **Awrejcewicz, Jan et al., 2005b:74056**

Vanlanduit, S. (*with* Guillaume, Patrick) Robust processing of mechanical vibration measurements. (English summary) (*see* **2005c:62006**)

Viana, Ricardo L. *see* **de Freitas, Mário S. T. et al., 2005e:74025**

Wang, Min[3] (*with* Zhao, Hong Liang[3]; Han, Yan Bin) Upper estimates of weighted eigenvalues for the vibration of membranes. (Chinese. English and Chinese summaries)

Woźniak, Czesław *see* **Rychlewska, Jowita et al., 2005c:74035**

Xian, Bin *see* **Dadfarnia, Mohsen et al., 2005a:74043**

Yabuno, H. *see* **Maĭlybaev, A. A. et al.**

Zarubinskaya, M. A. (*with* van Horssen, Wim T.) On the vibrations of a simply supported square plate on a weakly nonlinear elastic foundation. (English summary) **2005m:74044**

Zhang, Yuhong[1] (*with* Agrawal, Sunil K.; Hagedorn, Peter) Longitudinal vibration modeling and control of a flexible transporter system with arbitrarily varying cable lengths. (English summary)

Zhao, Hong Liang[3] *see* **Wang, Min[3] et al.**

Zhao, Wei-Jia *see* **Chen, Li Qun, 2005g:74058**

Items with secondary classifications in 74H45

Abdel-Rohman, Mohamed (*with* Spencer, Billie F.) Control of wind-induced nonlinear oscillations in suspended cables. (English summary)

Adali, Sarp *see* **Sloss, J. M. et al., 2005k:49072**

Ahmed, N. U. Stability of torsional and vertical motion of suspension bridges subject to stochastic wind forces. (English summary) **2005c:70025**

Aizicovici, Sergiu (*with* Fečkan, Michal) Anti-periodic forced oscillations of damped beams on elastic bearings. (English summary) **2005j:35212**

Akulenko, L. D. (*with* Nesterov, Sergeĭ V.) Oscillatory properties of eigenfrequencies and the shapes of nonhomogeneous rods. (Russian) **2005i:74048**
Ambur, Damodar R. *see* **Hasanyan, Davresh J. et al., 2005c:74025**
Amer, Y. A. *see* **Eissa, M., 2005a:93133**
Aron, Dan *see* **Li, Yugang et al.**
Avalos, George (*with* Lasiecka, Irena; Rebarber, Richard) Boundary controllability of a coupled wave/Kirchoff system. (English summary) **2005a:93015**
Balthazar, José Manoel (*with* Brasil, R. M. L. R. F.; Weber, Hans Ingo; Fenili, A.; Belato, Débora; Felix, Jorge L. Palacios; Garzelli, F. J.) A review of new vibration issues due to non-ideal energy sources. (English summary) (*see* **2005b:93006**)
Banks, H. T. (*with* Medhin, Negash G.; Pinter, Gabriella A.) Nonlinear reptation in molecular based hysteresis models for polymers. (English summary) **2005f:74022**
Bastos, W. D. *see* **Ferreira, Jorge et al., 2005e:35163**
Baweja, M. *see* **Szyszkowski, W.**
Belato, Débora *see* **Balthazar, José Manoel et al.,** (**2005b:93006**)
Berkovits, Juha (*with* Leinfelder, Herbert; Mustonen, Vesa) Periodic solutions of nonlinear vibrating beams. **2005e:35223**
Berrahmoune, Larbi Pointwise stabilization of strings with non-linear feedback. (English summary) **2005g:93088**
Blom, Frederic *see* **Leyland, Pénélope et al.,** (**2005b:74043**)
Boella, M. L. Asymptotic behaviour of a vibrating membrane model. (English summary) **2005b:35188**
Bonnet-Ben Dhia, Anne-Sophie (*with* Mercier, Jean-François) Resonances of an elastic plate in a confined flow. (English summary) (*see* **2005b:00020**)
Bouillard, Philippe (*with* Lacroix, Valéry; De Bel, Eric) A meshless approach for 2D vibro-acoustic problems. (*see* **2005f:74002**)
Brasil, R. M. L. R. F. *see* **Balthazar, José Manoel et al.,** (**2005b:93006**)
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Bruch, J. C., Jr. *see* **Sloss, J. M. et al., 2005k:49072** *and* **Zhang, Jianying et al., 2005k:74059**
Carstens, Volker *see* **Leyland, Pénélope et al.,** (**2005b:74043**)
Chabakauri, G. D. On the vibrations of a string with a free right endpoint and with boundary control of small absolute value at the left endpoint. (Russian. Russian summary) **2005k:35240**
Chen, Y. C. *see* **Wang, Jenn-Nan et al., 2005f:93077**
Chou, So-Hsiang *see* **Wang, Jenn-Nan et al., 2005f:93077**
Chudinovich, Igor (*with* Constanda, Christian; Colín Venegas, José) The Cauchy problem in the theory of thermoelastic plates with transverse shear deformation. (English summary) **2005k:74054**
Cimatti, Giovanni Forced periodic solutions for piezoelectric crystals. (English summary) **2005m:35298**
Colín Venegas, José *see* **Chudinovich, Igor et al., 2005k:74054**
Constanda, Christian *see* **Chudinovich, Igor et al., 2005k:74054**
Cox, Steven J. Aye, there's the rub. An inquiry into why a plucked string comes to rest. (*see* **2005m:49001**)
Dáger, René Simultaneous interior controllability of elastic strings. (English summary) (*see* **2005b:00020**)
— Observation and control of vibrations in tree-shaped networks of strings. (English summary) **2005c:93042**
Darmawijoyo (*with* van Horssen, Wim T.) On a characteristic layer problem for a weakly damped string. (English summary) **2005a:35179**
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Desmet, W. *see* **Pluymers, B. et al.**
Dimentberg, M. F. (*with* Iourtchenko, D. V.) Random vibrations with impacts: a review. (English summary) **2005c:74038**
Dimovski, Ivan H. (*with* Spiridonova, Margarita N.) Computer implementation of solutions of BVP for finite vibrating systems. (English summary)
Du, Haiping (*with* Lam, James; Sze, Kam Yim) Non-fragile H_∞ vibration control for uncertain structural systems. (English summary) **2005b:93054**
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Egaña, J. C. *see* **Jiménez Alarcon, Raul Dario et al., 2005b:65042**
Eissa, M. (*with* Amer, Y. A.) Vibration control of a cantilever beam subject to both external and parametric excitation. (English summary) **2005a:93133**
El-Bassiouny, A. F. Effect of non-linearities in elastomeric material dampers on torsional oscillation control. (English summary)
Elishakoff, Isaac (*with* Storch, Joel A.) An unusual exact, closed-form solution for axisymmetric vibration of inhomogeneous simply supported circular plates. (English summary)
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Fečkan, Michal *see* **Aizicovici, Sergiu, 2005j:35212**
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Fenili, A. *see* **Balthazar, José Manoel et al.,** (**2005b:93006**)
Ferreira, Jorge (*with* de Lima Santos, Mauro; Matos, M. P.; Bastos, W. D.) Exponential decay for Kirchhoff wave equation with nonlocal condition in a noncylindrical domain. (English summary) **2005e:35163**
Filimonov, A. M. (*with* Myshkis, Anatoliĭ Dmitrievich) On properties of large wave effect in classical problem of bead string vibration. (English summary) **2005j:34070**
Friswell, Michael I. (*with* Prells, Uwe; Garvey, Seamus D.) Low-rank damping modifications and defective systems. (English summary) **2005h:70023**
Fung, T. C. Unconditionally stable collocation algorithms for second order initial value problems. (English summary) **2005j:65118**
Gal, Ciprian G. On a nonlinear variant of the beam equation with Wentzell boundary conditions. **2005g:35035**
Garsiya, M. Argeta *see* **Kostyuchenko, A. G., 2005m:47098**
Garvey, Seamus D. *see* **Friswell, Michael I. et al., 2005h:70023**
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Gavrilov, Serge (*with* Herman, G. C.) On the oscillation of a punch moving on free surface of an elastic half-space. (English summary) (*see* **2005b:00020**)
Givoli, Dan *see* **Mar-Or, Assaf**
Golovatyĭ, Yu. D. (*with* Gómez, Delfina; Lobo-Hidalgo, Miguel; Pérez, Eugenia) On vibrating membranes with very heavy thin inclusions. (English summary) **2005c:35070**
Gómez, Delfina *see* **Golovatyĭ, Yu. D. et al., 2005c:35070**
Gomilko, A. M. (*with* Savitskii, O. A.; Trofimchuk, A. N.) Asymptotic solution of a harmonic contact problem for a permeable stamp on a liquid saturated base. (English and Ukrainian summaries) **2005e:74015**
Grimmer, Ronald (*with* Sinestrari, Eugenio) One dimensional hyperbolic systems and Hille-Yosida operators. (English summary) **2005d:35153**
Haaker, T. I. *see* **Lumbantobing, H.**
Hasanyan, Davresh J. (*with* Librescu, Liviu; Ambur, Damodar R.) A few results on the foundation of the theory and behavior of nonlinear magnetoelastic plates carrying an electrical current. (English summary) **2005c:74025**
Herman, G. C. *see* **Gavrilov, Serge,** (**2005b:00020**)
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van Horssen, Wim T. *see* **Darmawijoyo, 2005a:35179**
Il′in, Vladimir Aleksandrovich[1] Boundary control at one end of an oscillation process described by the equation $k(x)[k(x)u_x(x,t)]_x - u_{tt}(x,t) = 0$. (Russian. Russian summary) **2005h:93089**
— Boundary control of spherically symmetric oscillations of a ball under the condition of the existence of finite energy. (Russian) **2005f:93013**
— (*with* Moiseev, E. I.) Boundary control of radially symmetric oscillations of a round membrane. (Russian) **2005f:93014**
Ilyasova, Nigar M. Parametric vibrations and resonance. (English summary) **2005k:34183**
Inman, Daniel J. *see* **Lopes, Vicente, Jr. et al.,** (**2005b:93006**)
Intissar, Abdelkader *see* **Jeribi, Aref, 2005a:47087**
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Ivanova, A. P. *see* **Bratus′, A. S., 2005g:93122**
Jeribi, Aref (*with* Intissar, Abdelkader) On an Riesz basis of generalized eigenvectors of the nonselfadjoint problem deduced from a perturbation method for sound radiation by a vibrating plate in a light fluid. (English summary) **2005a:47087**
Jézéquel, L. *see* **Sinou, J.-J. et al., 2005g:70003**
Jia, Gao (*with* Song, Ying-Qing; Li, Qiong) Calculation of eigenvalues for a class of crosswise vibration equation of the beam. (English summary) **2005k:74076**
Jiménez Alarcon, Raul Dario (*with* Santos, L. C.; Kuhl, N. M.; Egaña, J. C.; Soto, Ricardo) An inverse eigenvalue procedure for damage detection in rods. (English summary) **2005b:65042**
Kargarnovin, M. H. (*with* Mehri, B.; Younesian, D.) Response of a suspended cable to narrow-band random excitation with peaked P.S.D. (English summary) **2005m:74045**
Kawanago, Tadashi Computer assisted proof to symmetry-breaking bifurcation phenomena in nonlinear vibration. (English summary) **2005a:47127**
Knowles, Ian W. (*with* McCarthy, Maeve L.) Isospectral membranes: a connection between shape and density. (English summary) **2005f:30016**
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Kolesov, Yu. S. A criterion for the stability of elastic systems under multifrequency vibrations. (Russian) **2005e:35148**
Komornik, Vilmos (*with* Loreti, Paola) A further note on a theorem of Ingham and simultaneous observability in critical time. (English summary) **2005i:93051**
Korzyuk, V. I. A conjugation problem that describes the longitudinal vibrations of a string. (Russian. English and Russian summaries) **2005m:35170**
Kostyuchenko, A. G. (*with* Garsiya, M. Argeta) The problem of steady oscillations of a half-cylinder with a cubic elastic structure, and related selfadjoint quadratic pencils. (Russian) **2005m:47098**
Kovaleva, A. S. Stochastic dynamics of flexible systems with motion limiters. (English summary) **2005c:74039**
Küçükarslan, Semih An exact truncation boundary condition for incompressible-unbounded infinite fluid domains. (English summary) **2005h:76055**
Kuhl, N. M. *see* **Jiménez Alarcon, Raul Dario et al., 2005b:65042**
Kuliev, G. F. (*with* Teyyubova, Fargana R.) The optimal control problem for the equation of oscillations of a three-layer plate. (English summary) **2005j:49004**
de Lacerda Oliveira, Milton (*with* de O. Matias, Frederico; Feitosa, Joaquim R.) Study of a model for the equations of inserted elastic string in a thermal environment. (English summary) **2005g:35220**
Lacroix, Valéry *see* **Bouillard, Philippe et al.,** (**2005f:74002**)
Lai, Shao Yong *see* **Li, Nan**[3]
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Leyland, Pénélope (*with* Blom, Frederic; Carstens, Volker; Tefy, Tiana) Fully coupled fluid-structure algorithms for aeroelasticity and forced vibration induced flutter: applications to a compressor cascade. (*see* **2005b:74043**)
Li, Nan[3] (*with* Lai, Shao Yong) Well-posedness of the global solution to a damped Euler-Bernoulli equation. (Chinese. English and Chinese summaries)
Li, Qiong *see* **Jia, Gao et al., 2005k:74076**
Li, Ta Tsien (*with* Xu, Yu-Lan) Local exact boundary controllability for nonlinear vibrating string equations. (English summary) **2005b:93019**
Li, Yugang (*with* Aron, Dan; Rahn, Christopher David) Adaptive vibration isolation for axially moving strings: theory and experiment. (English summary)
Librescu, Liviu *see* **Hasanyan, Davresh J. et al., 2005c:74025**
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Lin, Wen Wei (*with* Wang, Jenn-Nan) Partial pole assignment for the vibrating system with aerodynamic effect. (English summary) **2005h:93079**
— *see also* **Wang, Jenn-Nan et al., 2005f:93077**
Liţcanu, Gabriela A mathematical model of suspension bridges. (English summary)

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Liu, Yuyou (*with* Waters, T. P.; Brennan, Michael John) A comparison of semi-active damping control strategies for vibration isolation of harmonic disturbances. (English summary)
Lobo-Hidalgo, Miguel *see* **Golovatyĭ, Yu. D. et al., 2005c:35070**
Lopes, Vicente, Jr. (*with* Steffen, Valder, Jr.; Inman, Daniel J.) Optimal placement of piezoelectric sensor/actuators for smart structures vibration control. (English summary) (*see* **2005b:93006**)
Loreti, Paola *see* **Komornik, Vilmos, 2005i:93051**
Lu, Dian Chen (*with* Yan, Min Juan; Tian, Li Xin; Zhang, Zheng Di) H_∞ control of nonlinear simply supported beam vibrations. (Chinese. English and Chinese summaries)
Lucchesi, Massimiliano (*with* Pagni, Andrea) Longitudinal oscillations of bimodular rods. (English summary) **2005m:74056**
Lumbantobing, H. (*with* Haaker, T. I.) Aeroelastic oscillations of a seesaw-type oscillator under strong wind conditions. (English summary)
Maess, Matthias (*with* Gaul, Lothar) Simulation of vibro-acoustics in flexible piping systems. (English summary)
Mar-Or, Assaf (*with* Givoli, Dan) A finite element structural-acoustic model of coupled membranes. (English summary)
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McCarthy, Maeve L. *see* **Knowles, Ian W., 2005f:30016**
Medhin, Negash G. *see* **Banks, H. T. et al., 2005f:74022**
Mehri, B. *see* **Kargarnovin, M. H. et al., 2005m:74045**
Mercier, Jean-François *see* **Bonnet-Ben Dhia, Anne-Sophie, (2005b:00020)**
Metcalfe, Paul D. Ribbed elastic structures under a mean flow. (English summary) **2005k:74029**
Miller, Luc How violent are fast controls for Schrödinger and plate vibrations? (English summary) **2005d:93022**
Min, Kyung-Won *see* **Park, Ji-Hun**
Moiseev, E. I. *see* **Il'in, Vladimir Aleksandrovich[1], 2005f:93014**
Moreles, Miguel Ángel (*with* Rionda, Salvador Botello; Salinas, Rogelio) Computation of natural frequencies for elastic beam models including rotary inertia and shear. The clamped-free case. (Spanish. English and Spanish summaries)
Mugnai, Dimitri A note on an exponential semilinear equation of the fourth order. (English summary) **2005g:35063**
Mustonen, Vesa *see* **Berkovits, Juha et al., 2005e:35223**
Myshkis, Anatoliĭ Dmitrievich *see* **Filimonov, A. M., 2005j:34070**
Nečesal, Petr The Fučík spectrum in models of suspension bridges. (English summary) **2005i:35265**
Nesterov, Sergeĭ V. *see* **Akulenko, L. D., 2005i:74048**
Ni, Yi Qing *see* **Ying, Z. G. et al., 2005g:74086**
Nicaise, Serge (*with* Zaïr, Ouahiba) Determination of point sources in vibrating beams by boundary measurements: identifiability, stability, and reconstruction results. (English summary) **2005h:35364**
Norris, Andrew N. (*with* Photiadis, D. M.) Thermoelastic relaxation in elastic structures, with applications to thin plates. (English summary) **2005k:74027**
Ohayon, Roger Reduced models for fluid-structure interaction problems. (English summary) **2005b:74042**
de O. Matias, Frederico *see* **de Lacerda Oliveira, Milton et al., 2005g:35220**
Pagni, Andrea *see* **Lucchesi, Massimiliano, 2005m:74056**
Park, Ji-Hun (*with* Min, Kyung-Won) Bounded nonlinear stochastic control based on the probability distribution for the SDOF oscillator. (English summary)
Pellicer I Sabadi, Marta (*with* Solà-Morales, J.) Analysis of a viscoelastic spring-mass model. (English summary) **2005f:35191**
Peradze, D. G. The existence of a solution and a numerical method for the Timoshenko nonlinear wave system. (English summary) **2005h:35340**
Pérez, Eugenia Vibrating systems with concentrated masses: on the high frequencies and the local problem. (English summary) (*see* **2005b:00020**)
— *see also* **Golovatyĭ, Yu. D. et al., 2005c:35070**
Photiadis, D. M. *see* **Norris, Andrew N., 2005k:74027**
Pinter, Gabriella A. *see* **Banks, H. T. et al., 2005f:74022**
Piperno, Serge (*with* Farhat, Charbel) Design of efficient partitioned procedures for the transient solution of aeroelastic problems. **2005e:74017**
Pluymers, B. (*with* Desmet, W.; Vandepitte, D.; Sas, P.) Application of an efficient wave-based prediction technique for the analysis of vibro-acoustic radiation problems. (English summary)
Prells, Uwe *see* **Friswell, Michael I. et al., 2005h:70023**
Qiu, Yang *see* **Qu, Wenzhong et al.**
Qu, Wenzhong (*with* Sun, Jin Cai; Qiu, Yang) Active control of vibration using a fuzzy control method. (English summary)
Rabenstein, Rudolf *see* **Trautmann, Lutz, 2005b:94010**
Rahmani, Leila Ventcel's boundary conditions for a dynamic nonlinear plate. (English summary) **2005f:35303**
Rahn, Christopher David *see* **Li, Yugang et al.**
Raj, Anil (*with* Sujith, R. I.) Closed-form solutions for the free longitudinal vibration of inhomogeneous rods. (English summary)
Rebarber, Richard *see* **Avalos, George et al., 2005a:93015**
Rionda, Salvador Botello *see* **Moreles, Miguel Ángel et al.**
Roschke, P. N. *see* **Wang, Sheng-Guo et al., 2005h:93053**
Sabu, N. Vibrations of thin piezoelectric flexural shells: two-dimensional approximation. (English summary) **2005a:74064**
Sadek, Ibrahim *see* **Sloss, J. M. et al., 2005k:49072**
Salinas, Rogelio *see* **Moreles, Miguel Ángel et al.**
Santos, L. C. *see* **Jiménez Alarcon, Raul Dario et al., 2005b:65042**
Sas, P. *see* **Pluymers, B. et al.**
Savitskiĭ, O. A. *see* **Gomilko, A. M. et al., 2005e:74015**
Scott, N. H. *see* **Leslie, D. J., 2005g:74040**
Shubov, Marianna A. Mathematical analysis of vibrations of nonhomogeneous filament with one end load. (English summary) **2005b:47098**
Sikolya, Eszter Simultaneous observability of networks of beams and strings. (English summary) **2005d:93025**
Sinestrari, Eugenio *see* **Grimmer, Ronald, 2005d:35153**
Sinou, J.-J. (*with* Thouverez, F.; Jézéquel, L.) Methods to reduce non-linear mechanical systems for instability computation. (English summary) **2005g:70003**
Sloss, J. M. (*with* Bruch, J. C., Jr.; Sadek, Ibrahim; Adali, Sarp) Boundary optimal control of structural vibrations in an annular plate. (English summary) **2005k:49072**
— *see also* **Zhang, Jianying et al., 2005k:74059**
Solà-Morales, J. *see* **Pellicer I Sabadi, Marta, 2005f:35191**
Song, Ying-Qing *see* **Jia, Gao et al., 2005k:74076**
Soto, Ricardo *see* **Jiménez Alarcon, Raul Dario et al., 2005b:65042**
Spencer, Billie F. *see* **Abdel-Rohman, Mohamed**
Spiridonova, Margarita N. *see* **Dimovski, Ivan H.**
Steffen, Valder, Jr. *see* **Lopes, Vicente, Jr. et al., (2005b:93006)**
Storch, Joel A. *see* **Elishakoff, Isaac**
Sujith, R. I. *see* **Raj, Anil**
Sun, Jin Cai *see* **Qu, Wenzhong et al.**
Svanadze, Merab Fundamental solution of the system of equations of steady oscillations in the theory of microstretch elastic solids. (English summary) **2005g:74005**
Sze, Kam Yim *see* **Du, Haiping et al., 2005b:93054**
Szomolay, Barbara Decay of solutions of some degenerate hyperbolic equations of Kirchhoff type. (English summary) **2005b:35194**
Szyszkowski, W. (*with* Baweja, M.) Optimal gains for active vibration control by the beam analogy. (English summary)
Taha, M. H. Vibrations of non-uniform shear beams in elastic foundation. (English summary)
— Vibration analysis of viscoelastic nonuniform shear plates. (English summary)
Tefy, Tiana *see* **Leyland, Pénélope et al., (2005b:74043)**
Tesar, Alexander Stability response of thin bionics shells. (English summary) **2005f:74054**
Teyyubova, Fargana R. *see* **Kuliev, G. F., 2005j:49004**
Thouverez, F. *see* **Sinou, J.-J. et al., 2005g:70003**
Tian, Li Xin *see* **Lu, Dian Chen et al.**
Tokhi, M. O. *see* **Mat Darus, I. Z.**
Trautmann, Lutz (*with* Rabenstein, Rudolf) ★ Digital sound synthesis by physical modeling using the functional transformation method. **2005b:94010**
Triggiani, Roberto Backward uniqueness of semigroups arising in coupled partial differential equations systems of structural acoustics. (English summary) **2005h:35218**
Trofimchuk, A. N. *see* **Gomilko, A. M. et al., 2005e:74015**
Udwadia, Firdaus E. Boundary control, quiet boundaries, super-stability and super-instability. (English summary) **2005j:93042**
(Välimäki, Vesa) *see* **Trautmann, Lutz, 2005b:94010**
Vandepitte, D. *see* **Pluymers, B. et al.**
Voropay, A. V. *see* **Yanyutin, E. G.**
Voss, Heinrich Locating real eigenvalues of a spectral problem in fluid-solid type structures. **2005m:35203**
Wagner, Marcus Michael (*with* Gaul, Lothar; Dumont, Ney A.) The hybrid boundary element method in structural acoustics. (English summary) **2005g:76082**
Wang, Feng-Xia *see* **Zhang, Wei[10] et al., 2005f:34114**
Wang, Jenn-Nan (*with* Chou, So-Hsiang; Chen, Y. C.; Lin, Wen Wei) Pole assignment for a vibrating system with aerodynamic effect. (English summary) **2005f:93077**
— *see also* **Lin, Wen Wei, 2005h:93079**
Wang, Min[3] (*with* Wang, Pei Guang) Estimates of weighted eigenvalues for the elastic vibrating plate. (English summary)
Wang, Pei Guang *see* **Wang, Min[3]**
Wang, Sheng-Guo (*with* Yeh, Hsiang; Roschke, P. N.) Robust active control for structural systems with structured uncertainties. (English summary) **2005h:93053**
Waters, T. P. *see* **Liu, Yuyou et al.**
Weber, Hans Ingo *see* **Balthazar, José Manoel et al., (2005b:93006)**
Xu, Yu-Lan *see* **Li, Ta Tsien, 2005b:93019**
Yan, Min Juan *see* **Lu, Dian Chen et al.**
Yang, Kyung-Jinn (*with* Hong, Keum-Shik; Matsuno, Fumitoshi) Robust adaptive boundary control of an axially moving string under a spatiotemporally varying tension (English summary) **2005b:93087**
Yanyutin, E. G. (*with* Voropay, A. V.) Controlling nonstationary vibrations of a plate by means of additional loads. (English summary)
Yao, Cui Zhen *see* **Zhang, Shu Qin**
Yeh, Hsiang *see* **Wang, Sheng-Guo et al., 2005h:93053**
Ying, Z. G. (*with* Ni, Yi Qing; Ko, Jan Ming) Semi-active optimal control of linearized systems with multi-degree of freedom and application. (English summary) **2005g:74086**
Younesian, D. *see* **Kargarnovin, M. H. et al., 2005m:74045**
Yuan, Jing[1] Robust vibration control based on identified models. (English summary) **2005d:70013**
Zaïr, Ouahiba *see* **Nicaise, Serge, 2005h:35364**
Zayed, E. M. E. The asymptotics of the two-dimensional wave equation for a general multi-connected vibrating membrane with piecewise smooth Robin boundary conditions. (English summary)
Zhang, Jianying Level set method for shape optimization of plate piezoelectric patches. (English summary) **2005d:49063**
— (*with* Bruch, J. C., Jr.; Sloss, J. M.) An integral equation approach for shape optimization of plate piezoelectric patch. (English summary) **2005k:74059**
Zhang, Shu Qin (*with* Yao, Cui Zhen) The dynamic behavior of Euler-Bernoulli beam under self-excited boundary feedback. (Chinese. English and Chinese summaries)
Zhang, Wei[10] (*with* Wang, Feng-Xia; Zu, Jean W.) Computation of normal forms for high dimensional non-linear systems and application to non-planar non-linear oscillations of a cantilever beam. (English summary) **2005f:34114**
Zhang, Zheng Di *see* **Lu, Dian Chen et al.**
Znamenskaya, L. N. Constrained controllability of the vibrations of a string with one fixed endpoint. (Russian. Russian summary) **2005k:93029**

Zu, Jean W. *see* **Zhang, Wei[10] et al., 2005f:34114**

74H50 Random vibrations

Dimentberg, M. F. (*with* Iourtchenko, D. V.) Random vibrations with impacts: a review. (English summary) **2005c:74038**
Iourtchenko, D. V. *see* **Dimentberg, M. F., 2005c:74038**
Kargarnovin, M. H. (*with* Mehri, B.; Younesian, D.) Response of a suspended cable to narrow-band random excitation with peaked P.S.D. (English summary) **2005m:74045**
Kovaleva, A. S. Stochastic dynamics of flexible systems with motion limiters. (English summary) **2005c:74039**
Mehri, B. *see* **Kargarnovin, M. H. et al., 2005m:74045**
Pradlwarter, H. J. Deterministic integration algorithms for stochastic response computations of FE-systems. (English summary)
Younesian, D. *see* **Kargarnovin, M. H. et al., 2005m:74045**

Items with secondary classifications in 74H50

Bobrik, R. V. (*with* Chrzeszczyk, A.; Stettner, Lukasz) A closure procedure for random vibration parametric resonances. (English summary)
Cho, Yun Hyun *see* **Heo, Hoon et al., 2005b:74086**
Chrzeszczyk, A. *see* **Bobrik, R. V. et al.**
Elishakoff, Isaac (*with* Ren, Yongjian) ★ Finite element methods for structures with large stochastic variations. **2005d:65001**
Heo, Hoon (*with* Cho, Yun Hyun; Kim, Dae Jung) Stochastic control of flexible beam in random flutter. (English summary) **2005b:74086**
Kim, Dae Jung *see* **Heo, Hoon et al., 2005b:74086**
Ko, Jan Ming *see* **Ying, Z. G. et al., 2005e:93171**
Liu, Kang Sheng *see* **Zhao, Hong Liang[1] et al., 2005m:35300**
Ni, Yi Qing *see* **Ying, Z. G. et al., 2005e:93171**
Ren, Yongjian *see* **Elishakoff, Isaac, 2005d:65001**
Roy, Debasish A family of lower- and higher-order transversal linearization techniques in non-linear stochastic engineering dynamics. (English summary) **2005c:70027**
Stettner, Lukasz *see* **Bobrik, R. V. et al.**
Tawfiq, I. (*with* Vinh, T.) Nonlinear behaviour of structures using the Volterra series—signal processing and testing methods. (English summary) **2005f:74055**
Vinh, T. *see* **Tawfiq, I., 2005f:74055**
Ying, Z. G. (*with* Ni, Yi Qing; Ko, Jan Ming) Non-linear stochastic optimal control for coupled-structures system of multi-degree-of-freedom. (English summary) **2005e:93171**
Zhang, Chun Guo *see* **Zhao, Hong Liang[1] et al., 2005m:35300**
Zhao, Hong Liang[1] (*with* Liu, Kang Sheng; Zhang, Chun Guo) Stability for the Timoshenko beam system with local Kelvin-Voigt damping. (English summary) **2005m:35300**

74H55 Stability

Matvīchuk, K. S. Technical stability of nonlinear three-dimensional dynamic states of continuous systems that interact with a fluid flow. (Ukrainian. English and Ukrainian summaries) **2005e:74026**
— Determination of conditions for the technical stability of the nonlinear states of a controlled elastic aircraft. (Russian. Russian and Armenian summaries)
Vedeneev, V. V. Instability of an unbounded elastic plate in a gas flow. (Russian. Russian summary) **2005g:74060**

Items with secondary classifications in 74H55

Agafonov, S. A. (*with* Georgievskiĭ, D. V.) Dynamic stability of a rod with nonlinear internal viscosity under follower loading. (Russian)
Ahmed, N. U. Stability of torsional and vertical motion of suspension bridges subject to stochastic wind forces. (English summary) **2005c:70025**
Atanacković, Teodor M. *see* **Stanković, Bogoljub, 2005m:74043**
Brevdo, Leonid (*with* Il′ichev, A. T.) Absolute instability of a thin visco-elastic plate in an air flow. (English summary) **2005f:74028**
Castro, N. N. O. *see* **Raposo, C. A. et al., 2005j:35217**
Chaĭkin, S. V. Stability of a family of nontrivial equilibrium orientations to the attracting center of a gyrostat with an elastic rod. (Russian. Russian summary) **2005k:70049**
Chamara, P. A. *see* **Coller, B. D., 2005f:74041**
Chen, Li Qun (*with* Cheng, Chang-Jun) Instability of nonlinear viscoelastic plates. (English summary) **2005h:74040**
— *see also* **Liu, Yan Zhu et al.**
Cheng, Chang-Jun *see* **Chen, Li Qun, 2005h:74040**
Cheng, Jin[2] (*with* Isakov, Victor; Yamamoto, Masahiro; Zhou, Qi) Lipschitz stability in the lateral Cauchy problem for elasticity system. (English summary) **2005a:35270**
Choi, Ji-Yun (*with* Hong, Keum-Shik; Yang, Kyung-Jinn) Exponential stabilization of an axially moving tensioned strip by passive damping and boundary control. (English summary) **2005c:74056**
Coller, B. D. (*with* Chamara, P. A.) Structural non-linearities and the nature of the classic flutter instability. (English summary) **2005f:74041**
Ferreira, Jorge (*with* de Lima Santos, Mauro; Matos, M. P.) Stability for the beam equation with memory in non-cylindrical domains. (English summary) **2005e:35229**
— *see also* **Raposo, C. A. et al., 2005j:35217**
de Freitas, Mário S. T. (*with* Viana, Ricardo L.; Grebogi, Celso) Basins of attraction of periodic oscillations in suspension bridges. (English summary) **2005e:74025**
Georgievskiĭ, D. V. *see* **Agafonov, S. A.**
Grebogi, Celso *see* **de Freitas, Mário S. T. et al., 2005e:74025**
Grobbelaar-Van Dalsen, Marié Dynamic boundary stabilization of a Reissner-Mindlin plate with Timoshenko beam. (English summary) **2005h:49070**
Guo, Bao Zhu (*with* Xie, Yu[1]) Basis property and stabilization of a translating tensioned beam through a pointwise control force. (English summary) **2005d:74023**
Hong, Keum-Shik *see* **Choi, Ji-Yun et al., 2005c:74056**
Il′ichev, A. T. *see* **Brevdo, Leonid, 2005f:74028**
Isakov, Victor *see* **Cheng, Jin[2] et al., 2005a:35270**
Ito, Kazuho Stability of geometrically nonlinear Timoshenko beam with boundary damping. (English summary) **2005e:74031**
Ivanov, Ts. P. (*with* Savova, R.) Stability of relative equilibria of an elastic top. (English summary) **2005c:70006**
Jézéquel, L. *see* **Sinou, J.-J. et al., 2005g:70003**
Kolesov, Yu. S. A criterion for the stability of elastic systems under multifrequency vibrations. (Russian) **2005e:35148**
Leslie, D. J. (*with* Scott, N. H.) Wave stability for constrained materials in anisotropic generalized thermoelasticity. (English summary) **2005g:74040**
de Lima Santos, Mauro *see* **Ferreira, Jorge et al., 2005e:35229** *and* **Raposo, C. A. et al., 2005j:35217**
Liu, Kang Sheng *see* **Zhao, Hong Liang[1] et al., 2005b:74076**
Liu, Yan Zhu (*with* Xue, Yun[1]; Chen, Li Qun) Dynamical stability of equilibrium of a thin elastic rod. (Chinese. English and Chinese summaries)
Liu, Zhuangyi *see* **Zhao, Hong Liang[1] et al., 2005b:74076**
Mahadevan, L. *see* **Skotheim, Jan M., 2005b:74075**
Maĭlybaev, A. A. *see* **Seĭranyan, A. P., 2005d:70011**
Matos, M. P. *see* **Ferreira, Jorge et al., 2005e:35229**
Matvīchuk, K. S. Technical stability with respect to measure of solutions of nonlinear differential equations that characterize the controlled vertical motion of an elastic body. (Russian. Russian summary) **2005j:74042**
Messaoudi, Salim A. (*with* Said Houari, Belkacem) Exponential stability in one-dimensional non-linear thermoelasticity with second sound. (English summary) **2005k:35405**
Raposo, C. A. (*with* Ferreira, Jorge; de Lima Santos, Mauro; Castro, N. N. O.) Exponential stability for the Timoshenko system with two weak dampings. (English summary) **2005j:35217**
Said Houari, Belkacem *see* **Messaoudi, Salim A., 2005k:35405**
Savova, R. *see* **Ivanov, Ts. P., 2005c:70006**
Scott, N. H. *see* **Leslie, D. J., 2005g:74040**
Seĭranyan, A. P. (*with* Maĭlybaev, A. A.) ★ Multiparameter stability theory with mechanical applications. **2005d:70011**
Sergeev, V. S. On the stability in the critical case of the equilibrium state of a wing in an unsteady flow. (Russian. English and Russian summaries) **2005d:76026**
Sinou, J.-J. (*with* Thouverez, F.; Jézéquel, L.) Methods to reduce non-linear mechanical systems for instability computation. (English summary) **2005g:70003**
Skotheim, Jan M. (*with* Mahadevan, L.) Dynamics of poroelastic filaments. (English summary) **2005b:74075**
Stanković, Bogoljub (*with* Atanacković, Teodor M.) On the lateral vibrations of an elastic rod with varying compressive force. (English summary) **2005m:74043**
Steindl, A. (*with* Troger, H.) Is the sky-hook configuration stable? (English summary) **2005m:70086**
Tang, Shaoqiang (*with* Zhao, Hui-Jiang) Stability of Suliciu model for phase transitions. (English summary) **2005i:35184**
Tesar, Alexander Stability response of thin bionics shells. (English summary) **2005f:74054**
Thouverez, F. *see* **Sinou, J.-J. et al., 2005g:70003**
Troger, H. *see* **Steindl, A., 2005m:70086**
Viana, Ricardo L. *see* **de Freitas, Mário S. T. et al., 2005e:74025**
Xie, Yu[1] *see* **Guo, Bao Zhu, 2005d:74023**
Xu, Gen Qi (*with* Yung, Siu Pang) Exponential decay rate for a Timoshenko beam with boundary damping. (English summary)
Xue, Yun[1] *see* **Liu, Yan Zhu et al.**
Yamamoto, Masahiro *see* **Cheng, Jin[2] et al., 2005a:35270**
Yang, Kyung-Jinn *see* **Choi, Ji-Yun et al., 2005c:74056**
Yung, Siu Pang *see* **Xu, Gen Qi**
Zhao, Hong Liang[1] (*with* Liu, Kang Sheng; Liu, Zhuangyi) A note on the exponential decay of energy of a Euler-Bernoulli beam with local viscoelasticity. (English summary) **2005b:74076**
Zhao, Hui-Jiang *see* **Tang, Shaoqiang, 2005i:35184**
Zhou, Qi *see* **Cheng, Jin[2] et al., 2005a:35270**

74H60 Dynamical bifurcation

Lakrad, Faouzi (*with* Schiehlen, Werner) Effects of a low frequency parametric excitation. (English summary) **2005c:74040**
Schiehlen, Werner *see* **Lakrad, Faouzi, 2005c:74040**
Wang, Feng-Xia *see* **Zhang, Wei[10] et al., 2005i:74039**
Zhang, Wei[10] (*with* Wang, Feng-Xia; Zu, Jean W.) Local bifurcations and codimension-3 degenerate bifurcations of a quintic nonlinear beam under parametric excitation. (English summary) **2005i:74039**
Zu, Jean W. *see* **Zhang, Wei[10] et al., 2005i:74039**

Items with secondary classifications in 74H60

Clark, James David (*with* Fraser, Wynstone Barrie; Rahn, Christopher David; Rajamani, Arun) Limit-cycle oscillations of a heavy whirling cable subject to aerodynamic drag. (English summary) **2005i:74037**
Dessi, D. (*with* Mastroddi, F.; Morino, L.) A fifth-order multiple-scale solution for Hopf bifurcations. (English summary) **2005g:70041**
Destrade, Michel (*with* Scott, N. H.) Surface waves in a deformed isotropic hyperelastic material subject to an isotropic internal constraint. (English summary) **2005b:74064**
Fraser, Wynstone Barrie *see* **Clark, James David et al., 2005i:74037**
Gao, David Yang Duality, complementarity, and polarity in nonsmooth/nonconvex dynamics. (English summary) **2005h:49001**
Mastroddi, F. *see* **Dessi, D. et al., 2005g:70041**
Morino, L. *see* **Dessi, D. et al., 2005g:70041**
Rahn, Christopher David *see* **Clark, James David et al., 2005i:74037**
Rajamani, Arun *see* **Clark, James David et al., 2005i:74037**
Scott, N. H. *see* **Destrade, Michel, 2005b:74064**
Wang, Feng-Xia *see* **Zhang, Wei[10] et al., 2005k:74052**
Yao, Ming-hui *see* **Zhang, Wei[10] et al., 2005k:74052**

Zhang, Wei[10] (*with* Wang, Feng-Xia; Yao, Ming-hui) Global bifurcations and chaotic dynamics in nonlinear nonplanar oscillations of a parametrically excited cantilever beam. (English summary) **2005k:74052**

74H65 Chaotic behavior

Items with secondary classifications in 74H65

Awrejcewicz, Jan (*with* Krys′ko, V. A.; Krysko, Anton V.) Complex parametric vibrations of flexible rectangular plates. (English summary) **2005a:74042**
Krysko, Anton V. *see* **Awrejcewicz, Jan et al., 2005a:74042**
Krys′ko, V. A. *see* **Awrejcewicz, Jan et al., 2005a:74042**
Kuang, Jin Lu *see* **Leung, Andrew Y. T., 2005e:37202**
Leung, Andrew Y. T. (*with* Kuang, Jin Lu) Spatial chaos of 3-D elastica with the Kirchhoff gyrostat analogy using Melnikov integrals. (English summary) **2005e:37202**
Lu, Ling-Yi (*with* Lu, Zi Hua) The Hilbert phenomenon in chaotic motions. (English summary) **2005f:37064**
Lu, Zi Hua *see* **Lu, Ling-Yi, 2005f:37064**
Sansour, Carlo (*with* Wriggers, Peter; Sansour, Jamal) On the design of energy-momentum integration schemes for arbitrary continuum formulations. Applications to classical and chaotic motion of shells. (English summary) **2005b:74052**
Sansour, Jamal *see* **Sansour, Carlo et al., 2005b:74052**
Wang, Feng-Xia *see* **Zhang, Wei[10] et al., 2005k:74052**
Wriggers, Peter *see* **Sansour, Carlo et al., 2005b:74052**
Yao, Ming-hui *see* **Zhang, Wei[10] et al., 2005k:74052**
Zhang, Wei[10] (*with* Wang, Feng-Xia; Yao, Ming-hui) Global bifurcations and chaotic dynamics in nonlinear nonplanar oscillations of a parametrically excited cantilever beam. (English summary) **2005k:74052**

74H99 None of the above, but in this section

Acharya, Amit Parametrized invariant manifolds: a recipe for multiscale modeling? (English summary) **2005m:74046**
Bukhari, Abdul-Fattah K. On dynamic problem and integral equation. (English summary) **2005g:74061**
Challamel, Noël Dynamic analysis of elastoplastic shakedown of structures. (English summary)
Chiriţă, Stan *see* **D'Apice, Ciro et al., 2005j:74027**
D'Apice, Ciro (*with* Tibullo, V.; Chiriţă, Stan) On the spatial behavior in the dynamic theory of mixtures of thermoelastic solids. (English summary) **2005j:74027**
Ding, Qian *see* **Ye, Min et al.**
Fil′shtinskiĭ, L. A. *see* **Grigolyuk, È. I. et al.**
Godunov, Sergeĭ Konstantinovich The equations of elasticity with dissipation as a nontrivial example of thermodynamically consistent hyperbolic equations. (English summary) **2005g:74062**
Gorbachev, V. I. (*with* Kokarev, A. S.) An integral formula in the dynamic problem of inhomogeneous elasticity. (Russian. Russian summary)
Grigolyuk, È. I. (*with* Fil′shtinskiĭ, L. A.; Kovalev, Yu. D.) A three-dimensional stationary dynamic problem in the theory of elasticity for a layer with a hole that goes through the thickness of the layer. (Russian)
Kokarev, A. S. *see* **Gorbachev, V. I.**
Kovalev, Yu. D. *see* **Grigolyuk, È. I. et al.**
Ladopoulos, E. G. Nonlinear singular integral equations in elastodynamics by using Hilbert transformations. (English summary) **2005k:74042**
Lu, Jing *see* **Ye, Min et al.**
de Oliveira, Frederico Ricardo Ferreira *see* **de Toledo Fleury, Agenor, (2005b:93006)**
Senitskiĭ, Yu. È. A vector eigenfunction expansion theorem in the dynamic theory of elasticity. (Russian. English and Russian summaries) **2005i:74040**
Tibullo, V. *see* **D'Apice, Ciro et al., 2005j:74027**
de Toledo Fleury, Agenor (*with* de Oliveira, Frederico Ricardo Ferreira) Dynamics and control of a flexible rotating arm through the movement of a sliding mass. (English summary) (*see* **2005b:93006**)
Ye, Min (*with* Lu, Jing; Zhang, Wei[10]; Ding, Qian) Local and global nonlinear dynamics of a parametrically excited rectangular symmetric cross-ply laminated composite plate. (English summary)
Zhang, Wei[10] *see* **Ye, Min et al.**

Items with secondary classifications in 74H99

Abeyaratne, Rohan *see* **Weckner, Olaf, 2005h:74038**
Abou-Taleb, Naima M. M. About an elastic body in an isotropic elastic medium. (English summary)
Andrade, Doherty (*with* Fatori, L. H.) The nonlinear transmission problem with memory. (English summary) **2005f:35205**
Atanacković, Teodor M. (*with* Braun, D. J.) The strongest rotating rod. (English summary) **2005j:74035**
Bergman, Lawrence A. *see* **Vakakis, Alexander F. et al., 2005f:74048**
Bigoni, Davide (*with* Capuani, Domenico) Time-harmonic Green's function and boundary integral formulation for incremental nonlinear elasticity: dynamics of wave patterns and shear bands. (English summary) **2005m:74009**
Bonetti, Elena (*with* Frémond, Michel) Damage theory: microscopic effects of vanishing macroscopic motions. (English summary) **2005b:74008**
Braun, D. J. *see* **Atanacković, Teodor M., 2005j:74035**
Capuani, Domenico *see* **Bigoni, Davide, 2005m:74009**
Cheng, Jin[1] *see* **Lū, Nian Chun et al.**
Cheng, Y. H. *see* **Lū, Nian Chun et al.**
Chentouf, Boumediène Dynamic boundary controls of a rotating body-beam system with time-varying angular velocity. **2005h:93130**
Chernyshov, A. D. Two-dimensional dynamic boundary value problems for curvilinear thermoelastic bodies. (Russian. Russian summary) **2005m:74022**
Chudinovich, Igor (*with* Constanda, Christian) ★ Variational and potential methods for a class of linear hyperbolic evolutionary processes. **2005k:35001**
Constanda, Christian *see* **Chudinovich, Igor, 2005k:35001**
Dickey, R. W. Dynamic behavior of the inextensible string. (English summary) **2005h:74034**
Fabrizio, Mauro (*with* Giorgi, Claudio; Naso, Maria Grazia) Viscoelastic solids of exponential type. I. Minimal representations and controllability. (English summary) **2005k:74016**
Fang, Dai-ning *see* **Liu, Jin-xi et al.**
Fatori, L. H. *see* **Andrade, Doherty, 2005f:35205**
Frémond, Michel *see* **Bonetti, Elena, 2005b:74008**
Gao, Huajian *see* **Michelitsch, Thomas M. et al., 2005h:74030**
Giorgi, Claudio *see* **Fabrizio, Mauro et al., 2005k:74016**
Goyal, Sachin (*with* Perkins, N. C.; Lee, Christopher) Nonlinear dynamics and loop formation in Kirchhoff rods with implications to the mechanics of DNA and cables. (English summary)
Hansen, Scott W. Several related models for multilayer sandwich plates. (English summary) **2005e:74033**
Iovane, Gerardo (*with* Nasedkin, A. V.; Passarella, Francesca) Fundamental solutions in antiplane elastodynamic problem for anisotropic medium under moving oscillating source. (English summary) **2005g:74063**
Joseph, Kayyunnapara Thomas Riemann problem for a model in elasto dynamics. (English summary) **2005b:35178**
Kaplunov, Yu. D. (*with* Pichugin, A. V.) A bending quasi-front generated by an instantaneous impulse loading at the edge of a semi-infinite pre-stressed incompressible elastic plate. (English summary) **2005j:74039**
Kerschen, Gaetan *see* **Vakakis, Alexander F. et al., 2005f:74048**
Knops, R. J. (*with* Villaggio, Piero) An approximate treatment of blunt body impact. (English summary) **2005b:74095**
Kumar, Rajneesh (*with* Rani, Leena) Response of generalized thermoelastic half-space with voids due to mechanical and thermal sources. (English summary) **2005k:74025**
Lee, Christopher *see* **Goyal, Sachin et al.**
Levin, V. M. *see* **Michelitsch, Thomas M. et al., 2005h:74030**
Lin, Yi-Shih *see* **Nikravesh, Parviz E.**
Liu, Jin-xi (*with* Soh, Ai-Kah; Fang, Dai-ning) A moving dislocation in a magneto-electro-elastic solid. (English summary)
Lū, Nian Chun (*with* Cheng, Jin[1]; Cheng, Y. H.) A dynamic model of bridging fiber pull-out of composite materials. (English summary)
Manevich, L. I. *see* **Vakakis, Alexander F. et al., 2005f:74048**
Martins, J. A. C. (*with* Pinto da Costa, A.) Finite dimensional frictional contact quasi-static rate and evolution problems revisited. (English summary) **2005h:74050**
Michelitsch, Thomas M. (*with* Wang, Jizeng; Gao, Huajian; Levin, V. M.) On the retarded potentials of inhomogeneous ellipsoids and sources of arbitrary shapes in the three-dimensional infinite space. (English summary) **2005h:74030**
Musienko, A. I. *see* **Vakakis, Alexander F. et al., 2005f:74048**
Nasedkin, A. V. *see* **Iovane, Gerardo et al., 2005g:74063**
Naso, Maria Grazia *see* **Fabrizio, Mauro et al., 2005k:74016**
Nikravesh, Parviz E. (*with* Lin, Yi-Shih) Use of principal axes as the floating reference frame for a moving deformable body. (English summary)
Ortner, Norbert (*with* Wagner, Peter[2]) Fundamental matrices of homogeneous hyperbolic systems. Applications to crystal optics, elastodynamics, and piezoelectromagnetism. (English summary) **2005c:35181**
Passarella, Francesca *see* **Iovane, Gerardo et al., 2005g:74063**
Pavlov, V. P. A field-theoretic approach to the dynamics of a continuous medium: peturbation theory. (Russian. Russian summary) **2005i:74058**
Pelekanos, George *see* **Sevroglou, Vassilios, 2005b:74018**
Perkins, N. C. *see* **Goyal, Sachin et al.**
Pichugin, A. V. *see* **Kaplunov, Yu. D., 2005j:74039**
Pinto da Costa, A. *see* **Martins, J. A. C., 2005h:74050**
Quadrelli, Marco B. Dynamics and control of novel orbiting formations with internal dynamics. (English summary) **2005e:70039**
Rajagopal, Kumbakonam (*with* Roubíček, Tomáš) On the effect of dissipation in shape-memory alloys. (English summary) **2005b:74098**
Ramm, Ekkehard (*with* Wall, Wolfgang A.) Shell structures—a sensitive interrelation between physics and numerics. (English summary)
Rani, Leena *see* **Kumar, Rajneesh, 2005k:74025**
Roubíček, Tomáš *see* **Rajagopal, Kumbakonam, 2005b:74098**
Savenkov, V. A. A dynamic contact problem for an orthotropic strip. (Russian. English and Russian summaries)
Sevroglou, Vassilios (*with* Pelekanos, George) Two-dimensional elastic Herglotz functions and their applications in inverse scattering. (English summary) **2005b:74018**
Soh, Ai-Kah *see* **Liu, Jin-xi et al.**
Vakakis, Alexander F. (*with* Manevich, L. I.; Musienko, A. I.; Kerschen, Gaetan; Bergman, Lawrence A.) Transient dynamics of a dispersive elastic wave guide weakly coupled to an essentially nonlinear end attachment. (English summary) **2005f:74048**
Villaggio, Piero *see* **Knops, R. J., 2005b:74095**
Vladimīrov, V. A. On periodic and soliton solutions of a gradient model of a structured medium. (Ukrainian. English summary)
Wagner, Peter[2] *see* **Ortner, Norbert, 2005c:35181**
Wall, Wolfgang A. *see* **Ramm, Ekkehard**
Wang, Jizeng *see* **Michelitsch, Thomas M. et al., 2005h:74030**
Weckner, Olaf (*with* Abeyaratne, Rohan) The effect of long-range forces on the dynamics of a bar. (English summary) **2005h:74038**
Zelentsov, V. B. On nonstationary dynamic contact problems in the theory of elasticity with varying width of the contact area. (Russian. Russian summary) **2005d:74027**

74Jxx Waves

Items with secondary classifications in 74Jxx

(Cohen, Gary C.) *see* **Mathematical and numerical aspects of wave propagation—WAVES 2003, 2005b:00020**

(Heikkola, Erkki) *see* **Mathematical and numerical aspects of wave propagation—WAVES 2003, 2005b:00020**

(Joly, Patrick) *see* **Mathematical and numerical aspects of wave propagation—WAVES 2003, 2005b:00020**

(Neittaanmäki, Pekka) *see* **Mathematical and numerical aspects of wave propagation—WAVES 2003, 2005b:00020**

Items listed otherwise than by author

Jyväskylä ★ Mathematical and numerical aspects of wave propagation—WAVES 2003. **2005b:00020**

Mathematical and numerical aspects of wave propagation—WAVES 2003 ★ Mathematical and numerical aspects of wave propagation—WAVES 2003. **2005b:00020**

74J05 Linear waves

Albuquerque, E. L. (*with* Mauriz, P. W.) Elastic waves propagation in damped media. (English summary) (*see* **2005g:65009**)

Banerjee, Manidipa *see* **Roychoudhuri, S. K., 2005k:74043**

Bera, Rasajit Kumar *see* **Ray, Santanu Saha**

Calás, H. *see* **Otero Hernández, José A. et al., 2005a:74046**

Chakraborty, Abir (*with* Roy Mahapatra, D.; Gopalakrishnan, S.) Finite element simulation of BAW propagation in inhomogeneous plate due to piezoelectric actuation. (English summary) (*see* **2005g:65009**)

Chen, Wen[4] *see* **Fish, Jacob**

Collino, Francis *see* **Huttunen, Tomi et al., 2005c:74042**

Currò, C. *see* **Valenti, G. et al., (2005c:00016)**

Daros, C. H. The elastic wave front shape generated by a circular source in a piezoelectric medium of crystal class 6mm. (English summary) **2005c:74041**

Destrade, Michel (*with* Saccomandi, Giuseppe) Finite-amplitude inhomogeneous waves in Mooney-Rivlin viscoelastic solids. (English summary) **2005b:74058**

Fish, Jacob (*with* Chen, Wen[4]) Space-time multiscale model for wave propagation in heterogeneous media. (English summary)

Gopalakrishnan, S. *see* **Chakraborty, Abir et al., (2005g:65009)**

Hamilton, Mark F. *see* **de Lima, Washington J. N., 2005c:74043**

Huttunen, Tomi (*with* Monk, P. B.; Collino, Francis; Kaipio, Jari P.) The ultra-weak variational formulation for elastic wave problems. (English summary) **2005c:74042**

Iovane, Gerardo (*with* Nasedkin, A. V.; Passarella, Francesca) Fundamental solutions in antiplane elastodynamic problem for anisotropic medium under moving oscillating source. (English summary) **2005g:74063**

Kaipio, Jari P. *see* **Huttunen, Tomi et al., 2005c:74042**

de Lima, Washington J. N. (*with* Hamilton, Mark F.) Finite amplitude waves in isotropic elastic waveguides with arbitrary constant cross-sectional area. (English summary) **2005c:74043**

Maugin, Gérard A. *see* **Otero Hernández, José A. et al., 2005a:74046**

Mauriz, P. W. *see* **Albuquerque, E. L., (2005g:65009)**

Monk, P. B. *see* **Huttunen, Tomi et al., 2005c:74042**

Monsiváis, G. *see* **Otero Hernández, José A. et al., 2005a:74046**

Nasedkin, A. V. *see* **Iovane, Gerardo et al., 2005g:74063**

Nohara, Ben T. Governing equations of envelope surface created by nearly bichromatic waves propagating on an elastic plate and their stability. (English summary) **2005i:74041**

Ostoja-Starzewski, Martin Selected topics in stochastic wave propagation. (English summary) **2005m:74047**

Ostrosablin, N. I. Purely transverse waves in elastic anisotropic media. (Russian. Russian summary) **2005j:74028**

Otero Hernández, José A. (*with* Calás, H.; Rodríguez-Ramos, R.; Maugin, Gérard A.; Monsiváis, G.; Pérez-Alvarez, R.) Diffraction of transverse horizontal waves in Fibonacci piezoelectric superlattices. (English summary) **2005a:74046**

Passarella, Francesca *see* **Iovane, Gerardo et al., 2005g:74063**

Payton, Robert G. *see* **Watanabe, Kazumi**

Pérez-Alvarez, R. *see* **Otero Hernández, José A. et al., 2005a:74046**

Ray, Santanu Saha (*with* Bera, Rasajit Kumar) Application of Adomian method on the elastic wave propagation in a semi-infinite elastic rod of randomly varying cross section. (English summary)

Rodríguez-Ramos, R. *see* **Otero Hernández, José A. et al., 2005a:74046**

Rokhlin, S. I. *see* **Wang, Lugen, 2005e:74027**

Roychoudhuri, S. K. (*with* Banerjee, Manidipa) Magnetoelastic plane waves in rotating media in thermoelasticity of type II (G-N model). (English summary) **2005k:74043**

Roy Mahapatra, D. *see* **Chakraborty, Abir et al., (2005g:65009)**

Saccomandi, Giuseppe *see* **Destrade, Michel, 2005b:74058**

Salvatori, Maria Cesarina (*with* Sanchini, Giampaolo) Finite amplitude transverse waves in materials with memory. (English summary) **2005i:74042**

Sanchini, Giampaolo *see* **Salvatori, Maria Cesarina, 2005i:74042**

Scarpetta, Edoardo Analytical results for wave propagation through elastic solids with defects of arbitrary shape periodically distributed. (English summary) **2005h:74029**

Shimizu, Senjo Wave front sets of the Riemann function of elastic interface problems. (English summary) **2005a:74047**

Shuvalov, A. L. General relationships for guided acoustic waves in anisotropic plates. (English summary)

Sugiyama, Masaru *see* **Valenti, G. et al., (2005c:00016)**

Valenti, G. (*with* Currò, C.; Sugiyama, Masaru) Wave features for a new continuum model of isotropic solids. (English summary) (*see* **2005c:00016**)

Wang, Lugen (*with* Rokhlin, S. I.) Recursive geometric integrators for wave propagation in a functionally graded multilayered elastic medium. (English summary) **2005e:74027**

Watanabe, Kazumi (*with* Payton, Robert G.) Green's function and its non-wave nature for SH-wave in inhomogeneous elastic solid. (English summary)

Items with secondary classifications in 74J05

Abou-Taleb, Naima M. M. About an elastic body in an isotropic elastic medium. (English summary)

Babenkova, E. (*with* Kaplunov, Yu. D.) Radiation conditions for a semi-infinite elastic strip. (English summary) **2005m:74039**

Basu, Ushnish (*with* Chopra, Anil K.) Erratum to: "Perfectly matched layers for transient elastodynamics of unbounded domains" [Internat. J. Numer. Methods Engrg. **59** (2004), no. 8, 1039–1074; MR2034773].

Bécache, Eliane (*with* Ezziani, Abdelaâziz; Joly, Patrick) A mixed finite element approach for viscoelastic wave propagation. (English summary) **2005k:74073**

Bleistein, Norman *see* **Zhang, Yu[4] et al., 2005g:35192**

Bogaevskiĭ, I. A. New singularities and perestroikas of fronts of linear waves. (English and Russian summaries) **2005f:58077**

Chen, Jing-Bo Multisymplectic geometry for the seismic wave equation. (English summary)

Chopra, Anil K. *see* **Basu, Ushnish**

Danoyan, Z. N. Investigation of the roots of the characteristic equation of plane magnetoelastic waves for perfectly conducting anisotropic media. (Russian. English, Russian and Ukrainian summaries)

Destrade, Michel (*with* Hayes, Michael A.) Inhomogeneous 'longitudinal' plane waves in a deformed elastic material. (English summary) **2005g:74017**

Ezziani, Abdelaâziz *see* **Bécache, Eliane et al., 2005k:74073**

Gavrilov, Serge (*with* Herman, G. C.) Oscillation of a punch moving on the free surface of an elastic half space. (English summary) **2005k:74063**

Hayes, Michael A. *see* **Destrade, Michel, 2005g:74017**

Herman, G. C. *see* **Gavrilov, Serge, 2005k:74063**

Joly, Patrick *see* **Bécache, Eliane et al., 2005k:74073**

Kamotskiĭ, V. V. On the incidence of a plane wave on an elastic wedge at a critical angle. (Russian. Russian summary) **2005a:35272**

Kaplunov, Yu. D. *see* **Babenkova, E., 2005m:74039**

Ma, Zaitian *see* **Wang, Huazhong et al.**

Molotkov, L. A. On the propagation of seismic waves in block fluid media. (Russian. English and Russian summaries) **2005h:86021**

— Propagation of seismic waves in block elastic-fluid media. III. (Russian. English and Russian summaries) **2005i:86015**

Renardy, Michael On localized Kelvin-Voigt damping. (English summary) **2005a:35273**

Rychlewska, Jowita (*with* Szymczyk, Jolanta; Woźniak, Czesław) Simplified models for the vibration analysis of micro-periodic elastic media. (English summary) **2005c:74035**

Shorr, B. F. ★ The wave finite element method. **2005a:74089**

Sugiyama, Masaru A new continuum model of solids incorporating microscopic thermal vibration and its application to wave propagation phenomena. (English summary) (*see* **2005c:00016**)

Szymczyk, Jolanta *see* **Rychlewska, Jowita et al., 2005c:74035**

Wang, Huazhong (*with* Zhang, Libin; Ma, Zaitian) Seismic wave imaging in visco-acoustic media. (English summary)

Woźniak, Czesław *see* **Rychlewska, Jowita et al., 2005c:74035**

Xu, Yongzhi S. Transmitted wave in a poroelastic medium and its application in evaluation of osteoporosis. (English summary) (*see* **2005i:00016**)

Zhang, Guan Quan *see* **Zhang, Yu[4] et al., 2005g:35192**

Zhang, Libin *see* **Wang, Huazhong et al.**

Zhang, Yu[4] (*with* Zhang, Guan Quan; Bleistein, Norman) True amplitude wave equation migration arising from true amplitude one-way wave equations. (English summary) **2005g:35192**

74J10 Bulk waves

Alekseev, A. S. (*with* Imomnazarov, Kh. Kh.; Grachev, E. V.; Rakhmonov, T. T.; Imomnazarov, B. Kh.) Direct and inverse dynamic problems for a system of equations of homogeneous elastic-porous media. (English summary)

Alshits, V. I. (*with* Lothe, J.) Some basic properties of bulk elastic waves in anisotropic media. (English summary) **2005c:74044**

— (*with* Maugin, Gérard A.) Dynamics of multilayers: elastic waves in an anisotropic graded or stratified plate. (English summary) **2005i:74043**

Bécache, Eliane (*with* Ezziani, Abdelaâziz; Joly, Patrick) Mathematical and numerical modeling of wave propagation in linear viscoelastic media. (*see* **2005b:00020**)

Chapelon, J.-Y. *see* **Fellah, Zine El Abidine et al., 2005g:74064**

Chichinina, T. I. *see* **Sabinin, Vladimir et al., (2005b:00020)**

Depollier, Claude *see* **Fellah, Zine El Abidine et al., 2005g:74064**

Deschamps, Marc *see* **Shuvalov, A. L. et al., 2005b:74061**

Edelman, Inna Bulk and surface waves in porous media: asymptotic analysis. (*see* **2005b:00020**)

Ezziani, Abdelaâziz *see* **Bécache, Eliane et al., (2005b:00020)**

Fellah, Mohamed *see* **Fellah, Zine El Abidine et al., 2005g:74064**

Fellah, Zine El Abidine (*with* Depollier, Claude; Fellah, Mohamed; Lauriks, W.; Chapelon, J.-Y.) Influence of dynamic tortuosity and compressibility on the propagation of transient waves in porous media. (English summary) **2005g:74064**

Gao, Huajian *see* **Michelitsch, Thomas M. et al., 2005h:74030**

Grachev, E. V. *see* **Alekseev, A. S. et al.**

Groby, Jean-Philippe (*with* Tsogka, Chrysoula) A time domain method for modeling wave propagation phenomena in viscoacoustic media. (English summary) (*see* **2005b:00020**)

Imomnazarov, B. Kh. *see* **Alekseev, A. S. et al.**

Imomnazarov, Kh. Kh. *see* **Alekseev, A. S. et al.**

Joly, Patrick *see* **Bécache, Eliane et al., (2005b:00020)**

Lauriks, W. *see* **Fellah, Zine El Abidine et al., 2005g:74064**

Levin, V. M. *see* **Michelitsch, Thomas M. et al., 2005h:74030**

Lothe, J. *see* **Alshits, V. I., 2005c:74044**

Martin, Paul Andrew Waves in wood: axisymmetric waves in slender solids of revolution. (English summary) **2005b:74059**

Maugin, Gérard A. *see* **Alshits, V. I., 2005i:74043**

Michelitsch, Thomas M. (*with* Wang, Jizeng; Gao, Huajian; Levin, V. M.) On the retarded potentials of inhomogeneous ellipsoids and sources of arbitrary shapes in the three-

dimensional infinite space. (English summary) **2005h:74030**
Norris, Andrew N. Acoustic axes in elasticity. (English summary) **2005c:74045**
Ogden, Ray W. *see* **Vinh, Pham Chi**, **2005b:74062**
Payton, Robert G. Anti-plane wave motion in a cylindrically orthotropic elastic solid containing a stress-free crack. (English summary) **2005b:74060**
— (*with* Watanabe, Kazumi) Wave front shape for a constrained cylindrically anisotropic elastic solid. (English summary) **2005h:74031**
Poncelet, O. *see* **Shuvalov, A. L. et al.**, **2005b:74061**
Rakhmonov, T. T. *see* **Alekseev, A. S. et al.**
Ronquillo Jarillo, Gerardo *see* **Sabinin, Vladimir et al.**, (**2005b:00020**)
Sabinin, Vladimir (*with* Chichinina, T. I.; Ronquillo Jarillo, Gerardo) Numerical model of seismic wave propagation in viscoelastic media. (*see* **2005b:00020**)
Sadovskaya, O. V. *see* **Sadovskiĭ, V. M.**, (**2005b:00020**)
Sadovskiĭ, V. M. (*with* Sadovskaya, O. V.) Mathematical modeling of elastic-plastic waves in granular media. (English summary) (*see* **2005b:00020**)
Shuvalov, A. L. (*with* Poncelet, O.; Deschamps, Marc) General formalism for plane guided waves in transversely inhomogeneous anisotropic plates. (English summary) **2005b:74061**
Tsogka, Chrysoula *see* **Groby, Jean-Philippe**, (**2005b:00020**)
Vinh, Pham Chi (*with* Ogden, Ray W.) Formulas for the Rayleigh wave speed in orthotropic elastic solids. (English summary) **2005b:74062**
Wang, Jizeng *see* **Michelitsch, Thomas M. et al.**, **2005h:74030**
Watanabe, Kazumi *see* **Payton, Robert G.**, **2005h:74031**

Items with secondary classifications in 74J10

Balakrishnan, A. V. (*with* Shubov, Marianna A.; Peterson, Cheryl A.) Spectral analysis of coupled Euler-Bernoulli and Timoshenko beam model. (English summary) **2005d:47090**
Banks, H. T. (*with* Pinter, Gabriella A.) A probabilistic multiscale approach to hysteresis in shear wave propagation in biotissue. (English summary) **2005k:74058**
Barucq, Hélène *see* **Prat, Frank et al.**, (**2005b:00020**)
Destrade, Michel (*with* Hayes, Michael A.) Inhomogeneous 'longitudinal' plane waves in a deformed elastic material. (English summary) **2005g:74017**
Dineva, P. S. (*with* Rangelov, Tsvyatko V.; Manolis, G. D.) Transient wave motion in a cracked, multi-layered geological region by the BEM. (English summary) (*see* **2005d:65006**)
Duquet, Bertrand *see* **Prat, Frank et al.**, (**2005b:00020**)
Hayes, Michael A. *see* **Destrade, Michel**, **2005g:74017**
Huang, Yi[1] (*with* Wang, Xiaogang) The 3-D non-axisymmetrical Lamb's problem in transversely isotropic saturated poroelastic media. (English summary) **2005i:74028**
Manolis, G. D. *see* **Dineva, P. S. et al.**, (**2005d:65006**)
Mikhailenko, B. G. (*with* Mikhaĭlov, A. A.; Reshetova, Galina) Spectral Laguerre method for viscoelastic seismic modeling. (English summary) **2005c:86006**
Mikhaĭlov, A. A. *see* **Mikhailenko, B. G. et al.**, **2005c:86006**
Peterson, Cheryl A. *see* **Balakrishnan, A. V. et al.**, **2005d:47090**
Pinter, Gabriella A. *see* **Banks, H. T.**, **2005k:74058**
Prat, Frank (*with* Barucq, Hélène; Duquet, Bertrand) Seismic wave modeling with the generalized screen propagator. (*see* **2005b:00020**)
Rangelov, Tsvyatko V. *see* **Dineva, P. S. et al.**, (**2005d:65006**)
Reshetova, Galina *see* **Mikhailenko, B. G. et al.**, **2005c:86006**
Shubov, Marianna A. *see* **Balakrishnan, A. V. et al.**, **2005d:47090**
Wang, Xiaogang *see* **Huang, Yi[1]**, **2005i:74028**

74J15 Surface waves

Abd-Alla, A. M. (*with* Hammad, H. A. H.; Abo-Dahab, S. M.) Rayleigh waves in a magnetoelastic half-space of orthotropic material under influences of initial stress and gravity field. (English summary) **2005j:74029**
Abo-Dahab, S. M. *see* **Abd-Alla, A. M. et al.**, **2005j:74029**
Babich, Vasiliĭ Mikhaĭlovich (*with* Kirpichnikova, N. Ya.) A new approach to the problem of the Rayleigh wave propagation along the boundary of a non-homogeneous elastic body. (English summary) **2005b:74063**
Belokon′, O. A. Propagation of waves in the nonhomogeneous Love problem. (Russian. English and Russian summaries) **2005m:74048**
Craster, Richard V. *see* **Gridin, Dmitri**, **2005b:74065**
Destrade, Michel (*with* Scott, N. H.) Surface waves in a deformed isotropic hyperelastic material subject to an isotropic internal constraint. (English summary) **2005b:74064**
— On interface waves in misoriented pre-stressed incompressible elastic solids. (English summary)
Dunham, Eric M. Dissipative interface waves and the transient response of a three-dimensional sliding interface with Coulomb friction. (English summary) **2005g:74065**
Fu, Yibin B. *see* **Mielke, Alexander**, **2005a:74048**
Gridin, Dmitri (*with* Craster, Richard V.) Lamb quasi-modes in curved plates. (English summary) **2005b:74065**
Hammad, H. A. H. *see* **Abd-Alla, A. M. et al.**, **2005j:74029**
Hu, Yuan Tai (*with* Yang, Jia Shi; Jiang, Qing) Surface waves in electrostrictive materials under biasing fields. (English summary) **2005g:74066**
Ivanov, Ts. P. (*with* Savova, R.) On the uniqueness of the surface waves in linear viscoelasticity. (English summary) **2005h:74032**
Jiang, Qing *see* **Hu, Yuan Tai et al.**, **2005g:74066**
Jin, Feng Zhao (*with* Wang, Z.; Kishimoto, Kikuo) Basic properties of Rayleigh surface wave propagation along curved surfaces. (English summary)
Kaplunov, Yu. D. (*with* Kossovich, L. Yu.) An asymptotic model for computing the far field of a Rayleigh wave in the case of an elastic half-plane. (Russian)
Kirpichnikova, N. Ya. *see* **Babich, Vasiliĭ Mikhaĭlovich**, **2005b:74063**
Kiselev, Aleksei P. Rayleigh wave with a transverse structure. (English summary) **2005f:74043**
Kishimoto, Kikuo *see* **Jin, Feng Zhao et al.**
Kossovich, L. Yu. *see* **Kaplunov, Yu. D.**
Kuznetsov, Sergeĭ Vladimirovich[2] Love waves in stratified monoclinic media. (English summary) **2005g:74067**
Man, Chi-Sing *see* **Tanuma, Kazumi**, **2005e:74028**
Midya, G. K. On Love-type surface waves in homogeneous micropolar elastic media. (English summary) **2005b:74066**
Mielke, Alexander (*with* Fu, Yibin B.) Uniqueness of the surface-wave speed: a proof that is independent of the Stroh formalism. (English summary) **2005a:74048**
Prikazchikov, Danila A. (*with* Rogerson, Graham A.) On surface wave propagation in incompressible, transversely isotropic, pre-stressed elastic half-spaces. (English summary) **2005a:74049**
Rogerson, Graham A. *see* **Prikazchikov, Danila A.**, **2005a:74049**
Savova, R. *see* **Ivanov, Ts. P.**, **2005h:74032**
Scott, N. H. *see* **Destrade, Michel**, **2005b:74064**
Tanuma, Kazumi (*with* Man, Chi-Sing) Angular dependence of Rayleigh-wave velocity in prestressed polycrystalline media with monoclinic texture. (English summary) **2005e:74028**
Tewary, V. K. Green's-function method for modeling surface acoustic wave dispersion in anisotropic material systems and determination of material parameters. (English summary)
Ting, T. C. T. Surface waves in a rotating anisotropic elastic half-space. (English summary) **2005b:74067**
Wang, Z. *see* **Jin, Feng Zhao et al.**
Yang, Jia Shi *see* **Hu, Yuan Tai et al.**, **2005g:74066**

Items with secondary classifications in 74J15

Agayan, K. L. (*with* Grigoryan, È. Kh.; Dzhilavyan, S. A.) Diffraction of a plane shear wave in an elastic space with a semi-infinite elastic inclusion. (Russian. Russian and Armenian summaries) **2005m:74049**
Alshits, V. I. (*with* Maugin, Gérard A.) Dynamics of multilayers: elastic waves in an anisotropic graded or stratified plate. (English summary) **2005i:74043**
Deshwal, Manju *see* **Singh, Jagdish**
Dzhilavyan, S. A. *see* **Agayan, K. L. et al.**, **2005m:74049**
Edelman, Inna Bulk and surface waves in porous media: asymptotic analysis. (*see* **2005b:00020**)
Gamblin, Didier Résonances de Rayleigh en dimension 2. (English and French summaries) [Rayleigh resonances in dimension 2] **2005f:35230**
Grigoryan, È. Kh. *see* **Agayan, K. L. et al.**, **2005m:74049**
Il′yasov, Kh. Kh. Propagation of nonradiating waves along a free surface of a porous fluid-saturated medium. (Russian. Russian summary) **2005i:74029**
Kaplunov, Yu. D. (*with* Prikazchikov, Danila A.; Rogerson, Graham A.) Edge vibration of a pre-stressed semi-infinite strip with traction-free edge and mixed face boundary conditions. (English summary) **2005f:74042**
Krauklis, A. P. *see* **Krauklis, Pavel Vladimirovich**, **2005g:74068**
Krauklis, Pavel Vladimirovich (*with* Krauklis, A. P.) The weak boundary effect in a field as a source approaches the boundary. (Russian. English and Russian summaries) **2005g:74068**
Ladopoulos, E. G. Nonlinear singular integral equations in elastodynamics by using Hilbert transformations. (English summary) **2005k:74042**
Maugin, Gérard A. *see* **Alshits, V. I.**, **2005i:74043**
Pathania, Vijayata *see* **Sharma, Jagan Nath**, **2005k:74030**
Prikazchikov, Danila A. *see* **Kaplunov, Yu. D. et al.**, **2005f:74042**
Rogerson, Graham A. *see* **Kaplunov, Yu. D. et al.**, **2005f:74042**
Rokhlin, S. I. *see* **Wang, Lugen**, **2005e:74027**
Sharma, Jagan Nath (*with* Pathania, Vijayata) Crested waves in thermoelastic plates immersed in liquid. (English summary) **2005k:74030**
Singh, Jagdish (*with* Deshwal, Manju) Rayleigh wave scattring due to impedance in the surface of a shallow ocean. (English summary)
Ting, T. C. T. The polarization vectors at the interface and the secular equation for Stoneley waves in monoclinic bimaterials. (English summary) **2005i:74018**
Wang, Lugen (*with* Rokhlin, S. I.) Recursive geometric integrators for wave propagation in a functionally graded multilayered elastic medium. (English summary) **2005e:74027**

74J20 Wave scattering

Agayan, K. L. (*with* Grigoryan, È. Kh.; Dzhilavyan, S. A.) Diffraction of a plane shear wave in an elastic space with a semi-infinite elastic inclusion. (Russian. Russian and Armenian summaries) **2005m:74049**
Aizenberg, Arkady *see* **Klem-Musatov, Kamill et al.**, **2005k:74044**
Boström, Anders *see* **Krasnova, Tatiana et al.**, **2005f:74044**
Dzhilavyan, S. A. *see* **Agayan, K. L. et al.**, **2005m:74049**
Garg, Monika *see* **Tomar, S. K.**, **2005g:74069**
Grigoryan, È. Kh. *see* **Agayan, K. L. et al.**, **2005m:74049**
Helle, Hans B. *see* **Klem-Musatov, Kamill et al.**, **2005k:74044**
Jansson, Per-Åke *see* **Krasnova, Tatiana et al.**, **2005f:74044**
Kaplunov, Yu. D. *see* **Perel, Maria V. et al.**, **2005f:74045**
Kazandjian, Luc A discussion of the properties of the Rayleigh perturbative solution in diffraction theory. (English summary) **2005m:74050**
Klem-Musatov, Kamill (*with* Aizenberg, Arkady; Helle, Hans B.; Pajchel, Jan) Reflection and transmission in multilayered media in terms of surface integrals. (English summary) **2005k:74044**
Krasnova, Tatiana (*with* Jansson, Per-Åke; Boström, Anders) Ultrasonic wave propagation in an anisotropic cladding with a wavy interface. (English summary) **2005f:74044**
Krauklis, A. P. *see* **Krauklis, Pavel Vladimirovich**, **2005g:74068**
Krauklis, Pavel Vladimirovich (*with* Krauklis, A. P.) The weak boundary effect in a field as a source approaches the boundary. (Russian. English and Russian summaries) **2005g:74068**
Morro, Angelo Uniqueness of the solution to the reflection-transmission problem in a viscoelastic layer. (English summary) (*see* **2005b:00020**)
Pajchel, Jan *see* **Klem-Musatov, Kamill et al.**, **2005k:74044**
Perel, Maria V. (*with* Kaplunov, Yu. D.; Rogerson, Graham A.) An asymptotic theory for internal reflection in weakly inhomogeneous elastic waveguides. (English summary) **2005f:74045**

Rogerson, Graham A. *see* **Perel, Maria V. et al., 2005f:74045**
Scalia, Antonio *see* **Sumbatyan, Mezhlum A., 2005i:74044**
Sumbatyan, Mezhlum A. (*with* Scalia, Antonio) ★ Equations of mathematical diffraction theory. **2005i:74044**
Tomar, S. K. (*with* Garg, Monika) Reflection and transmission of waves from a plane interface between two microstretch solid half-spaces. (English summary) **2005g:74069**
Touhei, T. Application of the complete eigenfunction expansion form of the Green's function to a scattering problem. (English summary) (*see* **2005d:65006**)
Wu, Kuang-Chong Diffraction of a plane stress wave by a semi-infinite crack in a general anisotropic elastic material. (English summary) **2005b:74068**
Zhao, Hong-Kai Analysis of the response matrix for an extended target. (English summary) **2005a:74050**

Items with secondary classifications in 74J20

Alfaro Vigo, Daniel G. (*with* Fouque, Jean-Pierre; Garnier, Josselin; Nachbin, André) Robustness of time reversal for waves in time-dependent random media. (English summary) **2005f:35181**
Alves, Carlos J. S. (*with* Chen, Ching Shyang) A new method of fundamental solutions applied to nonhomogeneous elliptic problems. (English summary) **2005m:65305**
Bogy, David B. *see* **Budaev, Bair V., 2005c:35223**
Budaev, Bair V. (*with* Bogy, David B.) Wave scattering by surface-breaking cracks and cavities. (English summary) **2005c:35223**
Chen, Ching Shyang *see* **Alves, Carlos J. S., 2005m:65305**
Collino, Francis *see* **Huttunen, Tomi et al., 2005c:74042**
Cortés-Vega, Luis A. A note on resonant frequencies for a system of elastic wave equations. (English summary) **2005j:35213**
Depollier, Claude (*with* Fellah, Zine El Abidine; Fellah, Mohamed) Propagation of transient acoustic waves in layered porous media: fractional equations for the scattering operators. (English summary) **2005h:76072**
Durand, Marc (*with* Guediri, Hocine) Scattering of acoustic waves by a layered elastic obstacle: a direct integral equations approach. (English summary) **2005c:76076**
Ekhlakov, A. V. *see* **Glushkov, Evgeny et al., (2005b:00020)**
Elfouhaily, Tanos Mikhael (*with* Guérin, Charles-Antoine) A critical survey of approximate scattering wave theories from random rough surfaces. (English summary) **2005d:35190**
Fellah, Mohamed *see* **Depollier, Claude et al., 2005h:76072**
Fellah, Zine El Abidine *see* **Depollier, Claude et al., 2005h:76072**
Fouque, Jean-Pierre *see* **Alfaro Vigo, Daniel G. et al., 2005f:35181**
Fuks, Iosif M. (*with* Godin, Oleg A.) Probability distributions of travel time and intensity of the earliest arrivals of a short pulse backscattered by a rough surface. (English summary) **2005e:86009**
Garnier, Josselin *see* **Alfaro Vigo, Daniel G. et al., 2005f:35181**
Glushkov, Evgeny (*with* Glushkova, Natalya V.; Ekhlakov, A. V.) Wave excitation, propagation and diffraction in elastic layered structures with obstacles. (English summary) (*see* **2005b:00020**)
Glushkova, Natalya V. *see* **Glushkov, Evgeny et al., (2005b:00020)**
Godin, Oleg A. *see* **Fuks, Iosif M., 2005e:86009**
Grote, Marcus J. (*with* Kirsch, Christoph) Dirichlet-to-Neumann boundary conditions for multiple scattering problems. (English summary) **2005h:65184**
Guediri, Hocine *see* **Durand, Marc, 2005c:76076**
Guérin, Charles-Antoine *see* **Elfouhaily, Tanos Mikhael, 2005d:35190**
Hazard, Christophe (*with* Ramdani, Karim) Selective acoustic focusing using time-harmonic reversal mirrors. (English summary) **2005e:35175**
de Hoop, Maarten V. The downward continuation approach to modeling and inverse scattering of seismic data in the Kirchhoff approximation. (English summary) **2005g:86021**
Huttunen, Tomi (*with* Monk, P. B.; Collino, Francis; Kaipio, Jari P.) The ultra-weak variational formulation for elastic wave problems. (English summary) **2005c:74042**
Kaipio, Jari P. *see* **Huttunen, Tomi et al., 2005c:74042**
Kawashita, Mishio (*with* Kawashita, Wakako; Soga, Hideo) Scattering of elastic waves in the half-space and relation between the Lax-Phillips theory and the Wilcox theory. (English summary) (*see* **2005d:35008**)
Kawashita, Wakako *see* **Kawashita, Mishio et al., (2005d:35008)**
Kirsch, Christoph *see* **Grote, Marcus J., 2005h:65184**
Kunets', Ya. Ĭ. (*with* Matus, V. V.; Porokhovs'kiĭ, V. V.) Investigation of the echo signals of SH-waves from thin-walled elastic rigidly supported inclusions. (Ukrainian. English, Russian and Ukrainian summaries) **2005b:86038**
Linton, C. M. (*with* Martin, Paul Andrew) Semi-infinite arrays of isotropic point scatterers. A unified approach. (English summary) **2005b:76122**
Martin, Paul Andrew *see* **Linton, C. M., 2005b:76122**
Matson, Kenneth H. *see* **Nita, Bogdan G. et al., 2005k:86017**
Matus, V. V. *see* **Kunets', Ya. Ĭ. et al., 2005b:86038**
Monk, P. B. *see* **Huttunen, Tomi et al., 2005c:74042**
Nachbin, André *see* **Alfaro Vigo, Daniel G. et al., 2005f:35181**
Nita, Bogdan G. (*with* Matson, Kenneth H.; Weglein, Arthur B.) Forward scattering series and seismic events: far field approximations, critical and postcritical events. (English summary) **2005k:86017**
Porokhovs'kiĭ, V. V. *see* **Kunets', Ya. Ĭ. et al., 2005b:86038**
Ramdani, Karim *see* **Hazard, Christophe, 2005e:35175**
Saha, Ratan K. *see* **Sharma, Subodh K., 2005c:76080**
Savin, Eric Transient transport equations for high-frequency power flow in heterogeneous cylindrical shells. (English summary) **2005a:74045**
Scarpetta, Edoardo Analytical results for wave propagation through elastic solids with defects of arbitrary shape periodically distributed. (English summary) **2005h:74029**
Sharma, Subodh K. (*with* Saha, Ratan K.) On the validity of some new acoustic scattering approximations. (English summary) **2005c:76080**
Soga, Hideo *see* **Kawashita, Mishio et al., (2005d:35008)**
Weglein, Arthur B. *see* **Nita, Bogdan G. et al., 2005k:86017**

74J25 Inverse problems

Baganas, K. (*with* Charalambopoulos, A.; Manolis, G. D.) Detection of spherical inclusions in a bounded, elastic cylindrical domain. (English summary)
Bonnet, Marc (*with* Guzina, Bojan B.; Nintcheu Fata, Sylvain) Underground cavity detection based on elastodynamic boundary element and topological derivative approaches. (*see* **2005b:00020**)
— (*with* Guzina, Bojan B.) Sounding of finite solid bodies by way of topological derivative. (English summary) **2005g:74070**
— *see also* **Guzina, Bojan B., 2005a:74051**
Bui, Huy Duong (*with* Constantinescu, Andrei; Maigre, Hubert) Numerical identification of linear cracks in 2D elastodynamics using the instantaneous reciprocity gap. (English summary) **2005d:74014**
Charalambopoulos, A. *see* **Baganas, K. et al.**
Constantinescu, Andrei *see* **Bui, Huy Duong et al., 2005d:74014**
Guzina, Bojan B. (*with* Bonnet, Marc) Topological derivative for the inverse scattering of elastic waves. (English summary) **2005a:74051**
— *see also* **Bonnet, Marc et al., 2005g:74070** *and* **(2005b:00020)**
Huang, G. L. *see* **Wang, Xiao Dong[3], 2005h:74033**
Ji, Lin[3] (*with* McLaughlin, Joyce R.) Using a Hankel function expansion to identify stiffness for the boundary impulse input experiment. (English summary) **2005a:74052**
— (*with* McLaughlin, Joyce R.) Recovery of the Lamé parameter μ in biological tissues. (English summary) **2005b:74069**
Karchevskiĭ, A. L. Numerical reconstruction of medium parameters of the member of thin anisotropic layers. (English summary) **2005g:74071**
— *see also* **Kurpinar, E., 2005f:74046**
Kurpinar, E. (*with* Karchevskiĭ, A. L.) Numerical solution of the inverse problem for the elasticity system for horizontally stratified media. (English summary) **2005f:74046**
Maigre, Hubert *see* **Bui, Huy Duong et al., 2005d:74014**
Manolis, G. D. *see* **Baganas, K. et al.**
McLaughlin, Joyce R. (*with* Yoon, Jeong-Rock) Unique identifiability of elastic parameters from time-dependent interior displacement measurement. (English summary) **2005b:74070**
— *see also* **Ji, Lin[3], 2005a:74052** *and* **2005b:74069**
Nintcheu Fata, Sylvain *see* **Bonnet, Marc et al., (2005b:00020)**
Pelekanos, George (*with* Sevroglou, Vassilios) The $(F^*F)^{1/4}$-method for the transmission problem in two-dimensional linear elasticity. (English summary) **2005i:74045**
Sevroglou, Vassilios *see* **Pelekanos, George, 2005i:74045**
Wang, Xiao Dong[3] (*with* Huang, G. L.) Identification of embedded cracks using back-propagating elastic waves. (English summary) **2005h:74033**
Yoon, Jeong-Rock *see* **McLaughlin, Joyce R., 2005b:74070**

Items with secondary classifications in 74J25

Abubakar, Aria (*with* Habashy, Tarek M.; van den Berg, Peter M.; Gisolf, Dries) The diagonalized contrast source approach: an inversion method beyond the Born approximation. (English summary) **2005m:65122**
Alekseev, A. S. (*with* Imomnazarov, Kh. Kh.; Grachev, E. V.; Rakhmonov, T. T.; Imomnazarov, B. Kh.) Direct and inverse dynamic problems for a system of equations of homogeneous elastic-porous media. (English summary)
Alves, Carlos J. S. (*with* Serranho, P.) On the identification of the flatness of a sound-hard acoustic crack. (English summary) **2005i:35277**
Arens, Tilo Why linear sampling works. (English summary) **2005b:35036**
van den Berg, Peter M. *see* **Abubakar, Aria et al., 2005m:65122**
Boukhgueim, Alexander A. Modern techniques in seismic tomography. (English summary) **2005j:86018**
Cristofol, Michel (*with* Gaitan, Patricia) Inverse problem for a perturbed stratified strip in two dimensions. (English summary) **2005a:35277**
Dominguez, N. (*with* Gibiat, V.; Esquerre, Y.) Time domain topological gradient and time reversal analogy: an inverse method for ultrasonic target detection. (English summary) **2005m:76159**
Esquerre, Y. *see* **Dominguez, N. et al., 2005m:76159**
de Franco, Roberto *see* **Tondi, Rosaria, 2005m:86020**
Fu, H. S. *see* **Han, Bo et al., 2005m:76160**
Gaitan, Patricia *see* **Cristofol, Michel, 2005a:35277**
Gibiat, V. *see* **Dominguez, N. et al., 2005m:76159**
Gisolf, Dries *see* **Abubakar, Aria et al., 2005m:65122**
Gladwell, Graham M. L. ★ Inverse problems in vibration. **2005g:74059**
Grachev, E. V. *see* **Alekseev, A. S. et al.**
Guzina, Bojan B. *see* **Nintcheu Fata, Sylvain, 2005h:35365**
Habashy, Tarek M. *see* **Abubakar, Aria et al., 2005m:65122**
Han, Bo (*with* Fu, H. S.; Li, Z.) A homotopy method for the inversion of a two-dimensional acoustic wave equation. (English summary) **2005m:76160**
Hinders, Mark K. *see* **Hou, Jidong et al.**
Hou, Jidong (*with* Leonard, Kevin R.; Hinders, Mark K.) Automatic multi-mode Lamb wave arrival time extraction for improved tomographic reconstruction. (English summary)
Imomnazarov, B. Kh. *see* **Alekseev, A. S. et al.**
Imomnazarov, Kh. Kh. *see* **Alekseev, A. S. et al.**
Janno, Jaan Recovering a time- and space-dependent kernel in a hyperbolic integro-differential equation from a restricted Dirichlet-to-Neumann operator. (English summary) **2005e:35248**
Ji, Lin[3] (*with* McLaughlin, Joyce R.; Renzi, Daniel; Yoon, Jeong-Rock) Interior elastodynamics inverse problems: shear wave speed reconstruction in transient elastography. (English summary) **2005c:35291**
Klibanov, Michael V. (*with* Timonov, A. A.) On the mathematical treatment of time reversal. (English summary) **2005c:35294**
Kravchuk, A. S. (*with* Neittaanmäki, Pekka) Dynamic identification of the deformed body parameters. (*see* **2005b:00020**)
Leonard, Kevin R. *see* **Hou, Jidong et al.**
Li, Z. *see* **Han, Bo et al., 2005m:76160**
McLaughlin, Joyce R. *see* **Ji, Lin[3] et al., 2005c:35291**

Neittaanmäki, Pekka *see* **Kravchuk, A. S.**, (2005b:00020)
Nintcheu Fata, Sylvain (*with* Guzina, Bojan B.) A linear sampling method for near-field inverse problems in elastodynamics. (English summary) **2005h:35365**
Pelekanos, George *see* **Sevroglou, Vassilios**, 2005b:74018
Rakhmonov, T. T. *see* **Alekseev, A. S. et al.**
Renzi, Daniel *see* **Ji, Lin[3] et al.**, 2005c:35291
Serranho, P. *see* **Alves, Carlos J. S.**, 2005i:35277
Sevroglou, Vassilios (*with* Pelekanos, George) Two-dimensional elastic Herglotz functions and their applications in inverse scattering. (English summary) **2005b:74018**
Stolk, Christiaan C. Microlocal analysis and seismic imaging. (English summary) **2005j:35003**
Timonov, A. A. *see* **Klibanov, Michael V.**, 2005c:35294
Tondi, Rosaria (*with* de Franco, Roberto) Seismic travel time inversion for 3D structures regularized with Sobolev norms. (English summary) **2005m:86020**
Yoon, Jeong-Rock *see* **Ji, Lin[3] et al.**, 2005c:35291
Zhao, Hong-Kai Analysis of the response matrix for an extended target. (English summary) **2005a:74050**

74J30 Nonlinear waves

Bergman, Lawrence A. *see* **Vakakis, Alexander F. et al.**, 2005f:74048
Cattani, Carlo (*with* Rushchits′kiĭ, Ya. Ya.) Cubically nonlinear elastic waves: wave equations and methods of analysis. (English and Ukrainian summaries) **2005c:74047**
— (*with* Rushchits′kiĭ, Ya. Ya.) Cubically nonlinear elastic waves versus quadratically ones. Main wave effects. (English and Ukrainian summaries) **2005c:74046**
Cherkaev, Andrej (*with* Cherkaeva, Elena; Slepyan, Leonid) Transition waves in bistable structures. I. Delocalization of damage. (English summary) **2005i:74046**
— *see also* **Slepyan, Leonid et al.**, 2005i:74047
Cherkaeva, Elena *see* **Cherkaev, Andrej et al.**, 2005i:74046 *and* **Slepyan, Leonid et al.**, 2005i:74047
Dai, Hui-Hui (*with* Liu, Zeng Rong) Nonlinear traveling waves in a compressible Mooney-Rivlin rod. I. Long finite-amplitude waves. (English summary) **2005j:74030**
Erbay, Saadet *see* **Hacinliyan, Irma**, 2005f:74047
Hacinliyan, Irma (*with* Erbay, Saadet) Coupled quintic nonlinear Schrödinger equations in a generalized elastic solid. (English summary) **2005f:74047**
Kerschen, Gaetan *see* **Vakakis, Alexander F. et al.**, 2005f:74048
Liu, Zeng Rong *see* **Dai, Hui-Hui**, 2005j:74030
Manevich, L. I. *see* **Vakakis, Alexander F. et al.**, 2005f:74048
Musienko, A. I. *see* **Vakakis, Alexander F. et al.**, 2005f:74048
Pastrone, Franco Wave propagation in microstructured solids. (English summary) **2005m:74051**
Rushchits′kiĭ, Ya. Ya. *see* **Cattani, Carlo**, 2005c:74046 *and* 2005c:74047
Slepyan, Leonid (*with* Cherkaev, Andrej; Cherkaeva, Elena) Transition waves in bistable structures. II. Analytical solution: wave speed and energy dissipation. (English summary) **2005i:74047**
— *see also* **Cherkaev, Andrej et al.**, 2005i:74046
Vakakis, Alexander F. (*with* Manevich, L. I.; Musienko, A. I.; Kerschen, Gaetan; Bergman, Lawrence A.) Transient dynamics of a dispersive elastic wave guide weakly coupled to an essentially nonlinear end attachment. (English summary) **2005f:74048**

Items with secondary classifications in 74J30

Bakırtaş, İlkay (*with* Demiray, Hilmi) Amplitude modulation of nonlinear waves in a fluid-filled tapered elastic tube. (English summary) **2005b:74037**
— (*with* Demiray, Hilmi) Weakly non-linear waves in a tapered elastic tube filled with an inviscid fluid. (English summary) **2005k:74028**
Barclay, D. W. The shock pattern for axially symmetric shear wave propagation in a hyperelastic incompressible solid. (English summary) **2005e:74029**
Cascaval, Radu C. Variable coefficient KdV equations and waves in elastic tubes. (English summary) **2005c:35250**
Chekurīn, V. F. *see* **Kravchishin, O. Z.**
Čiegis, Raimondas *see* **Krylovas, Aleksandras**, (2005a:00022)
Demiray, Hilmi A travelling wave solution to the KdV-Burgers equation. (English summary) **2005e:35198**
— On the existence of some evolution equations in fluid-filled elastic tubes and their progressive wave solutions. (English summary) **2005c:74021**
— *see also* **Bakırtaş, İlkay**, 2005b:74037 *and* 2005k:74028
Eden, Alp (*with* Erbay, Saadet) On travelling wave solutions of a generalized Davey-Stewartson system. (English summary) **2005i:35243**
Erbay, Saadet *see* **Eden, Alp**, 2005i:35243
Foroughi, Mehdi (*with* Struckmeier, Jens) A one-dimensional asymptotic model for higher order acoustic perturbations. (English summary) **2005b:76119**
Hansen, Sönke (*with* Röhrig, Daniel) Lagrangian solutions to systems of real principal type. (English summary) **2005m:58062**
Hayes, Michael A. (*with* Saccomandi, Giuseppe) Antiplane shear motions for viscoelastic Mooney-Rivlin materials. (English summary) **2005g:74027**
Kravchishin, O. Z. (*with* Chekurīn, V. F.) A nonlinear model of the propagation of elastic disturbances in an elastically deformed continuum. (Ukrainian. English, Russian and Ukrainian summaries)
Krylovas, Aleksandras (*with* Čiegis, Raimondas) Examples of asymptotical analysis of hyperbolic equations. (*see* **2005a:00022**)
Quintanilla, R. (*with* Straughan, B.) A note on discontinuity waves in type III thermoelasticity. (English summary) **2005m:74026**
Röhrig, Daniel *see* **Hansen, Sönke**, 2005m:58062
Saccomandi, Giuseppe *see* **Hayes, Michael A.**, 2005g:74027
Straughan, B. *see* **Quintanilla, R.**, 2005m:74026
Struckmeier, Jens *see* **Foroughi, Mehdi**, 2005b:76119
Vladīmīrov, V. A. Classical and generalized invariant solutions of the relaxing hydrodynamics equations. (English summary) **2005a:76034**

74J35 Solitary waves

Cattani, Carlo Solitary waves in dispersive media. (English summary) **2005k:74045**
Dai, Liming *see* **Han, Qiang[1] et al.**
Dolgikh, D. V. (*with* Kiselev, Vladimir Valerievich) Solitons of transverse corrugation in a three-layer nonlinearly elastic medium. (Russian. Russian summary) **2005j:74031**
Dong, Mingzhe *see* **Han, Qiang[1] et al.**
Engelbrecht, Jüri *see* **Janno, Jaan**, 2005m:74052
Han, Qiang[1] (*with* Dai, Liming; Dong, Mingzhe) Solitary wave in a nonlinear elastic structural element of large deflection. (English summary)
Il′ichev, A. T. Instability of solitons in inextensible rods. (Russian) **2005k:74046**
Janno, Jaan (*with* Engelbrecht, Jüri) Solitary waves in nonlinear microstructured materials. (English summary) **2005m:74052**
Kiselev, Vladimir Valerievich *see* **Dolgikh, D. V.**, 2005j:74031

Items with secondary classifications in 74J35

Barashenkov, I. V. (*with* Zemlyanaya, E. V.) Traveling solitons in the damped-driven nonlinear Schrödinger equation. (English summary) **2005d:35236**
Chen, Can *see* **Liu, Zheng Rong**
Derks, Gianne (*with* Gottwald, Georg A.) A robust numerical method to study oscillatory instability of gap solitary waves. (English summary) **2005m:37204**
English, J. M. (*with* Pego, Robert L.) On the solitary wave pulse in a chain of beads (English summary) **2005i:37097**
Gottwald, Georg A. *see* **Derks, Gianne**, 2005m:37204
Liu, Zheng Rong (*with* Chen, Can) Compactons in a general compressible hyperelastic rod. (English summary)
Pego, Robert L. *see* **English, J. M.**, 2005i:37097
Tajiri, Masayoshi Periodic soliton resonances. (English summary) **2005e:35196**
Vladīmīrov, V. A. On periodic and soliton solutions of a gradient model of a structured medium. (Ukrainian. English summary)
Zemlyanaya, E. V. *see* **Barashenkov, I. V.**, 2005d:35236

74J40 Shocks and related discontinuities

Barclay, D. W. The shock pattern for axially symmetric shear wave propagation in a hyperelastic incompressible solid. (English summary) **2005e:74029**
Sadovskaya, O. V. The method of through calculation for studying elastoplastic waves in a granular medium. (Russian. Russian summary) **2005j:74032**

Items with secondary classifications in 74J40

Dequiedt, J. L. (*with* Stolz, C.) Propagation of a shock discontinuity in an elasto-plastic material: constitutive relations. (English summary) **2005g:74024**
El-Maghraby, Nasser M. (*with* Yossef, Hamdy M.) State space approach to generalized thermoelastic problem with thermomechanical shock. (English summary) 2005e:74012
LeFloch, Philippe G. Graph solutions of nonlinear hyperbolic systems. (English summary) **2005j:35143**
Lucchesi, Massimiliano (*with* Pagni, Andrea) Longitudinal oscillations of bimodular rods (English summary) **2005m:74056**
Ostoja-Starzewski, Martin Selected topics in stochastic wave propagation. (English summary) **2005m:74047**
Pagni, Andrea *see* **Lucchesi, Massimiliano**, 2005m:74056
Pastrone, Franco Wave propagation in microstructured solids. (English summary) **2005m:74051**
Reynolds, C. N. *see* **Truman, Aubrey et al.**, 2005k:60205
Shimizu, Senjo Wave front sets of the Riemann function of elastic interface problems (English summary) **2005a:74047**
Shimoji, Sadao Solutions of a pair of conservation laws with nonconvex flux function (English summary)
Shorr, B. F. ★ The wave finite element method. **2005a:74089**
Stolz, C. *see* **Dequiedt, J. L.**, 2005g:74024
Truman, Aubrey (*with* Reynolds, C. N.; Williams, David) Stochastic Burgers equation in D-dimensions—a one-dimensional analysis: hot and cool caustics and intermittence of stochastic turbulence. (English summary) **2005k:60205**
Williams, David *see* **Truman, Aubrey et al.**, 2005k:60205
Yossef, Hamdy M. *see* **El-Maghraby, Nasser M.**, 2005e:74012

74J99 None of the above, but in this section

Bucataru, Ioan (*with* Slawinski, Michael A.) Generalized orthogonality between rays and wavefronts in anisotropic inhomogeneous media. (English summary) 2005j:74033
Christov, Christo I. Dynamics of patterns on elastic hypersurfaces. I. Shear waves in the middle surface. (English summary) (*see* **2005m:00011**)
— Dynamics of patterns on elastic hypersurfaces. II. Wave mechanics of flexural quasi-particles. (English summary) (*see* **2005m:00011**)
Danoyan, Z. N. On a plane problem of the propagation of magnetoelastic waves in an anisotropic perfectly conducting medium from a point source. (Russian. Russian and Armenian summaries)
— Propagation of plane magnetoelastic waves in anisotropic perfectly conducting media. (Russian. Russian and Armenian summaries)
Darinskii, A. N. (*with* Weihnacht, M.) Interface acoustic waves in piezoelectric bi-crystalline structures of specific types. (English summary) **2005k:74047**
Destrade, Michel Stoneley waves and interface stability of Bell materials in compression; comparison with rubber. (English summary) **2005j:74034**
Dyskin, Arcady V. *see* **Pasternak, Elena et al.**, (2005g:00014)
Giese, Guido Nonlinear stability analysis for the method of transport for the elastic-plastic wave equation. (English summary) **2005m:74053**
Grīnchenko, V. T. (*with* Komissarova, G. L.) Characteristics of normal waves in elastic-fluid cylindrical waveguide. (English summary) **2005b:74071**
Komissarova, G. L. *see* **Grīnchenko, V. T.**, 2005b:74071
Leung, Shingyu *see* **Qian, Jianliang**, 2005a:74053

Mikhas'kiv, V. V. Transient response of a plane rigid inclusion to an incident wave in an elastic solid. (English summary) **2005f:74049**
Mühlhaus, H.-B. *see* **Pasternak, Elena et al.**, **(2005g:00014)**
Naval, Ion Automodel solution for dynamic problem of two-component media. (English summary) **2005m:74054**
Nolde, E. V. (*with* Prikazchikova, L. A.; Rogerson, Graham A.) Dispersion of small amplitude waves in a pre-stressed, compressible elastic plate. (English summary) **2005f:74050**
Pasternak, Elena (*with* Mühlhaus, H.-B.; Dyskin, Arcady V.) Apparent strain localization and shear wave disperion in elastic fault gouge with microrotations. (English summary) (*see* **2005g:00014**)
Prikazchikova, L. A. *see* **Nolde, E. V. et al.**, **2005f:74050**
Qian, Jianliang (*with* Leung, Shingyu) A level set based Eulerian method for paraxial multivalued traveltimes. (English summary) **2005a:74053**
Rao, M. Bhujanga Wave propagation at an unbounded interface between two micropolar elastic half-spaces. (English summary)
Reshetnikov, V. V. *see* **Surkov, Yu. A.**, **2005g:74072**
Rogerson, Graham A. *see* **Nolde, E. V. et al.**, **2005f:74050**
Slawinski, Michael A. *see* **Bucataru, Ioan**, **2005j:74033**
Surkov, Yu. A. (*with* Reshetnikov, V. V.) Numerical investigation of the properties of quasilocal plane mode-type waves in the case of a thin low-velocity elastic layer that is in contact with an elastic half-space. (Russian. English and Russian summaries) **2005g:74072**
Weihnacht, M. *see* **Darinskii, A. N.**, **2005k:74047**

Items with secondary classifications in 74J99

Alekseev, A. S. (*with* Tsetsokho, V. A.; Belonosov, A. S.) Some algorithms for solving direct problems for equations of vibroseismics and geodesy. (English summary) **2005j:86020**
Alonso, Ana Esther (*with* Dello Russo, Anahí; Padra, Claudio; Rodríguez, Rodolfo) Accurate pressure post-process of a finite element method for elastoacoustics. (English summary) **2005j:74013**
Ayzenberg-Stepanenko, M. V. *see* **Slepyan, Leonid**, **2005a:74077**
Bal, Guillaume (*with* Ryzhik, Leonid) Time splitting for the Liouville equation in a random medium. (English summary) **2005j:65081**
Belonosov, A. S. *see* **Alekseev, A. S. et al.**, **2005j:86020**
Bettess, Peter *see* **Perrey-Debain, Emmanuel et al.**, **2005c:65111**
Bigoni, Davide (*with* Capuani, Domenico) Time-harmonic Green's function and boundary integral formulation for incremental nonlinear elasticity: dynamics of wave patterns and shear bands. (English summary) **2005m:74009**
Buchanan, James L. (*with* Gilbert, Robert P.; Wirgin, Armand; Xu, Yongzhi S.) ★ Marine acoustics. **2005f:76091**
Capuani, Domenico *see* **Bigoni, Davide**, **2005m:74009**
Cattani, Carlo (*with* Rushchits'kiĭ, Ya. Ya.) Cubically nonlinear elastic waves: wave equations and methods of analysis. (English and Ukrainian summaries) **2005c:74047**
Cheng, A. H.-D. *see* **Lopatnikov, S. L.**, **2005f:74030**
Cherednichenko, Kirill D. (*with* Padilla, Pablo) On derivation of the density of states for periodic operators by the method of asymptotic expansion. (English summary) **2005k:34328**
De Angelis, M. (*with* Massarotti, P.; Renno, P.) Wave hierarchies in viscoelasticity. (English summary) **2005g:74026**
Dello Russo, Anahí *see* **Alonso, Ana Esther et al.**, **2005j:74013**
Fey, Michael *see* **Giese, Guido**, **2005c:74031**
Garnier, Josselin Scattering, spreading, and localization of an acoustic pulse by a random medium. (English summary) **2005d:60116**
Giese, Guido (*with* Fey, Michael) A high-resolution residual splitting scheme for the elastic-plastic wave equation. (English summary) **2005c:74031**
Gilbert, Robert P. *see* **Buchanan, James L. et al.**, **2005f:76091**
Godin, Oleg A. (*with* Voronovich, A. G.) Fermat's principle for non-dispersive waves in non-stationary media. (English summary) **2005c:35275**
Gopalakrishnan, S. *see* **Roy Mahapatra, D.**, **(2005g:65009)**
Hasebe, Norio *see* **Verma, K. L.**
Jordan, P. M. *see* **Puri, Pratap**, **2005f:74027**
Joseph, Kayyunnapara Thomas (*with* Sachdev, P. L.) Exact solutions for some non-conservative hyperbolic systems. (English summary) **2005b:35177**
Kaplunov, Yu. D. (*with* Pichugin, A. V.) A bending quasi-front generated by an instantaneous impulse loading at the edge of a semi-infinite pre-stressed incompressible elastic plate. (English summary) **2005j:74039**
Klein, Abel (*with* Koines, Andrew) A general framework for localization of classical waves. II. Random media. (English summary) **2005d:35249**
Koines, Andrew *see* **Klein, Abel**, **2005d:35249**
Leslie, D. J. (*with* Scott, N. H.) Wave stability for constrained materials in anisotropic generalized thermoelasticity. (English summary) **2005g:74040**
Lopatnikov, S. L. (*with* Cheng, A. H.-D.) Macroscopic Lagrangian formulation of poroelasticity with porosity dynamics. (English summary) **2005f:74030**
Massarotti, P. *see* **De Angelis, M. et al.**, **2005g:74026**
Metcalfe, Paul D. Ribbed elastic structures under a mean flow. (English summary) **2005k:74029**
Padilla, Pablo *see* **Cherednichenko, Kirill D.**, **2005k:34328**
Padra, Claudio *see* **Alonso, Ana Esther et al.**, **2005j:74013**
Perrey-Debain, Emmanuel (*with* Trevelyan, Jon; Bettess, Peter) Plane wave interpolation in direct collocation boundary element method for radiation and wave scattering: numerical aspects and applications. (English summary) **2005c:65111**
Pichugin, A. V. *see* **Kaplunov, Yu. D.**, **2005j:74039**
Puri, Pratap (*with* Jordan, P. M.) On the propagation of plane waves in type-III thermoelastic media. (English summary) **2005f:74027**
Renno, P. *see* **De Angelis, M. et al.**, **2005g:74026**
Rodríguez, Rodolfo *see* **Alonso, Ana Esther et al.**, **2005j:74013**
Roy Mahapatra, D. (*with* Gopalakrishnan, S.) A nonlinear spectral finite element model for analysis of wave propagation in solid with internal friction and dissipation. (English summary) (*see* **2005g:65009**)
Rushchits'kiĭ, Ya. Ya. *see* **Cattani, Carlo**, **2005c:74047**
Ryzhik, Leonid *see* **Bal, Guillaume**, **2005j:65081**
Sachdev, P. L. *see* **Joseph, Kayyunnapara Thomas**, **2005b:35177**
Scott, N. H. *see* **Leslie, D. J.**, **2005g:74040**
Selezov, I. T. Wave processes in fluids and elastic media. (English summary) **2005c:76020**
Slepyan, Leonid (*with* Ayzenberg-Stepanenko, M. V.) Localized transition waves in bistable-bond lattices. (English summary) **2005a:74077**
Trevelyan, Jon *see* **Perrey-Debain, Emmanuel et al.**, **2005c:65111**
Tsetsokho, V. A. *see* **Alekseev, A. S. et al.**, **2005j:86020**
Verma, K. L. (*with* Hasebe, Norio) On the flexural and extensional thermoelastic waves in orthotropic plates with two thermal relaxation times.
Voronovich, A. G. *see* **Godin, Oleg A.**, **2005c:35275**
Wilmański, Krzysztof Tortuosity and objective relative accelerations in the theory of porous materials. (English summary) **2005m:74031**
Wirgin, Armand *see* **Buchanan, James L. et al.**, **2005f:76091**
Xu, Yongzhi S. *see* **Buchanan, James L. et al.**, **2005f:76091**

74Kxx Thin bodies, structures

74K05 Strings

Dickey, R. W. Dynamic behavior of the inextensible string. (English summary) **2005h:74034**
Dzhaiani, G. V. Theory of cusped Euler-Bernoulli beams and Kirchhoff-Love plates. **2005d:74015**
Freddi, Lorenzo (*with* Paroni, Roberto) A 3D–1D Young measure theory of an elastic string. (English summary) **2005g:74073**
Paroni, Roberto *see* **Freddi, Lorenzo**, **2005g:74073**

Items with secondary classifications in 74K05

Abesadze, T. (*with* Odishariya, V. Sh.; Peradze, D. G.) On the influence of a calculation error on the solution of the Kirchhoff nonlinear static equation. (English and Georgian summaries) **2005g:34001**
Ammari, Kais (*with* Jellouli, Mohamed) Stabilization of star-shaped networks of strings. (English summary) **2005h:93127**
Berrahmoune, Larbi Pointwise stabilization of strings with non-linear feedback. (English summary) **2005g:93088**
Campos Vieira, María Cristina *see* **Rabello, Tania Nunes et al.**, **2005a:74044**
Chabakauri, G. D. On the vibrations of a string with a free right endpoint and with boundary control of small absolute value at the left endpoint. (Russian. Russian summary) **2005k:35240**
Chen, Li Qun (*with* Zhao, Wei-Jia) A numerical method for simulating transverse vibrations of an axially moving string. (English summary) **2005g:74058**
Chipot, Michel Elastic deformations of membranes and wires. (English summary) **2005h:35134**
Darmawijoyo (*with* van Horssen, Wim T.) On a characteristic layer problem for a weakly damped string. (English summary) **2005a:35179**
Essl, Georg Trapping and steering on lattice strings: virtual slow waves and directional and nonpropagating excitations. (English summary) **2005e:37191**
Feitosa, Joaquim R. *see* **de Lacerda Oliveira, Milton et al.**, **2005g:35220**
Grimmer, Ronald (*with* Sinestrari, Eugenio) One dimensional hyperbolic systems and Hille-Yosida operators. (English summary) **2005d:35153**
van Horssen, Wim T. *see* **Darmawijoyo**, **2005a:35179**
Jellouli, Mohamed *see* **Ammari, Kais**, **2005h:93127**
Khapalov, Alexander Controllability properties of a vibrating string with variable axial load. (English summary) **2005e:93015**
Korzyuk, V. I. A conjugation problem that describes the longitudinal vibrations of a string. (Russian. English and Russian summaries) **2005m:35170**
de Lacerda Oliveira, Milton (*with* de O. Matias, Frederico; Feitosa, Joaquim R.) Study of a model for the equations of inserted elastic string in a thermal environment. (English summary) **2005g:35220**
Le Dret, Hervé (*with* Meunier, Nicolas) Modeling heterogeneous martensitic wires. (English summary) **2005m:74077**
Li, Ta Tsien (*with* Wang, Libin) Global classical solutions to a kind of mixed initial-boundary value problem for quasilinear hyperbolic systems. (English summary) **2005j:35144**
Lin, Fuyong[2] Orthogonal bases of 3-B-spline and its' application in bending problem of plate and beam system. (English summary)
Liu, I-Shih *see* **Rincon, Mauro Antonio**, **2005e:35142**
Lopes Frota, Cicero *see* **Rabello, Tania Nunes et al.**, **2005a:74044**
Medeiros, Luis Adauto *see* **Rabello, Tania Nunes et al.**, **2005a:74044**
Meunier, Nicolas *see* **Le Dret, Hervé**, **2005m:74077**
Odishariya, V. Sh. *see* **Abesadze, T. et al.**, **2005g:34001**
de O. Matias, Frederico *see* **de Lacerda Oliveira, Milton et al.**, **2005g:35220**
Pellicer I Sabadí, Marta (*with* Solà-Morales, J.) Analysis of a viscoelastic spring-mass model. (English summary) **2005f:35191**
Peradze, D. G. *see* **Abesadze, T. et al.**, **2005g:34001**
Rabello, Tania Nunes (*with* Campos Vieira, María Cristina; Lopes Frota, Cicero; Medeiros, Luis Adauto) Small vertical vibrations of strings with moving ends. (English summary) **2005a:74044**
Rincon, Mauro Antonio (*with* Liu, I-Shih) Existence and uniqueness of solutions of elastic string with moving ends. (English summary) **2005e:35142**
Sinestrari, Eugenio *see* **Grimmer, Ronald**, **2005d:35153**
Solà-Morales, J. *see* **Pellicer I Sabadí, Marta**, **2005f:35191**
Steindl, A. (*with* Troger, H.) Is the sky-hook configuration stable? (English summary) **2005m:70086**
Troger, H. *see* **Steindl, A.**, **2005m:70086**

Wang, Libin *see* **Li, Ta Tsien**, 2005j:35144
Zhao, Wei-Jia *see* **Chen, Li Qun**, 2005g:74058
Znamenskaya, L. N. Constrained controllability of the vibrations of a string with one fixed endpoint. (Russian. Russian summary) **2005k:93029**

74K10 Rods (beams, columns, shafts, arches, rings, etc.)

Abeyaratne, Rohan *see* **Weckner, Olaf**, 2005h:74038
Agafonov, S. A. (*with* Georgievskiĭ, D. V.) Dynamic stability of a rod with nonlinear internal viscosity under follower loading. (Russian)
Akulenko, L. D. (*with* Nesterov, Sergeĭ V.) Oscillatory properties of eigenfrequencies and the shapes of nonhomogeneous rods. (Russian) **2005i:74048**
Amenzade, R. Yu. (*with* Gasymov, M. G.; Mirzoev, S. S.) Stability of an elastic rod that is nonhomogeneous with respect to length. (Russian)
Antman, Stuart S. Regularity properties of planar motions of incompressible rods. (English summary) **2005i:74049**
— Invariant dissipative mechanisms for the spatial motion of rods suggested by artificial viscosity. (English summary) **2005f:74051**
Atanacković, Teodor M. (*with* Braun, D. J.) The strongest rotating rod. (English summary) **2005j:74035**
Batista, M. (*with* Kosel, F.) Cantilever beam equilibrium configurations. (English summary) **2005m:74055**
Batra, R. C. (*with* dell'Isola, F.; Ruta, G. C.) Second-order solution of Saint-Venant's problem for an elastic bar predeformed in flexure. (English summary) **2005f:74052**
Braun, D. J. *see* **Atanacković, Teodor M.**, 2005j:74035
Buonsanti, Michele (*with* Royer-Carfagni, Gianni) From 3-D nonlinear elasticity theory to 1-D bars with nonconvex energy. (English summary) **2005c:74048**
Buratti, Giovanni Stresses and deflections in a pseudo-elastic beam under cyclic loads. (English summary)
Casciaro, Raffaele *see* **Garcea, Giovanni et al.**, 2005h:74035
Chen, Li Qun *see* **Liu, Yan Zhu et al.**
Chen, Tungyang *see* **Ting, T. C. T. et al.**
Coleman, Bernard D. (*with* Swigon, David) Theory of self-contact in Kirchhoff rods with applications to supercoiling of knotted and unknotted DNA plasmids. (English summary) **2005d:74016**
Copetti, Maria I. M. Numerical approximation of dynamic deformations of a thermoviscoelastic rod against an elastic obstacle. (English summary) **2005e:74030**
Domokos, Gábor (*with* Healey, Timothy J.) Multiple helical perversions of finite, intristically curved rods. (English summary) **2005k:74048**
Ecsedi, István A formula for the generalized twist. (English summary) **2005b:74072**
Fabiano, Richard H. Coercivity for finite element approximation of a thermoelastic beam. (*see* **2005m:00008**)
Formica, Giovanni *see* **Garcea, Giovanni et al.**, 2005h:74035
Freddi, Lorenzo (*with* Morassi, Antonino; Paroni, Roberto) Thin-walled beams: the case of the rectangular cross-section. (English summary) **2005k:74049**
Garcea, Giovanni (*with* Formica, Giovanni; Casciaro, Raffaele) A numerical analysis of infinitesimal mechanisms. (English summary) **2005h:74035**
Gasymov, M. G. *see* **Amenzade, R. Yu. et al.**
Georgievskiĭ, D. V. *see* **Agafonov, S. A.**
Golo, Goran (*with* van der Schaft, A. J.; Stramigioli, Stefano) Hamiltonian formulation of planar beams. (English summary) **2005c:74049**
Goyal, Sachin (*with* Perkins, N. C.; Lee, Christopher) Nonlinear dynamics and loop formation in Kirchhoff rods with implications to the mechanics of DNA and cables. (English summary)
Griso, Georges Comportement asymptotique d'une grue. (English and French summaries) [Asymptotic behavior of a crane] **2005a:74054**
— Asymptotic behaviour of curved rods by the unfolding method. **2005h:74036**
Haering, William Bending dominated beam dynamics: continuous shape functions, boundary conditions and internal loads. (English summary)
Healey, Timothy J. *see* **Domokos, Gábor**, 2005k:74048
van der Heijden, G. H. M. A robust variational formulation for a rod subject to inequality constraints. (English summary) (*see* **2005g:74002**)
Henderson, Michael E. (*with* Neukirch, Sébastien) Classification of the spatial equilibria of the clamped elastica: numerical continuation of the solution set. (English summary) **2005a:74055**
dell'Isola, F. *see* **Batra, R. C. et al.**, 2005f:74052
Ito, Kazuho Stability of geometrically nonlinear Timoshenko beam with boundary damping. (English summary) **2005e:74031**
Kawakubo, Satoshi Kirchhoff elastic rods in the three-sphere. (English summary) **2005a:74056**
Kosel, F. *see* **Batista, M.**, 2005m:74055
Labidi, Soraya (*with* Tatar, Nasser-Eddine) Unboundedness for the Euler-Bernoulli beam equation with a fractional boundary dissipation. (English summary) **2005h:74037**
Lee, Christopher *see* **Goyal, Sachin et al.**
Levy, Alan J. *see* **Xie, Mayue**
Li, K. S. *see* **Ting, T. C. T. et al.**
Lin, Chun-Chi (*with* Schwetlick, Hartmut R.) On the geometric flow of Kirchhoff elastic rods. (English summary) **2005k:74050**
Litcanu, Gabriela A mathematical model of suspension bridges. (English summary) **2005e:74032**
Liu, Kang Sheng *see* **Zhao, Hong Liang[1] et al.**, 2005b:74076
Liu, Yan Zhu (*with* Xue, Yun[1]; Chen, Li Qun) Dynamical stability of equilibrium of a thin elastic rod. (Chinese. English and Chinese summaries)
Liu, Zhuangyi *see* **Zhao, Hong Liang[1] et al.**, 2005b:74076
Lucchesi, Massimiliano (*with* Pagni, Andrea) Longitudinal oscillations of bimodular rods. (English summary) **2005m:74056**
Madani, Kamyar *see* **Marigo, Jean-Jacques**, 2005k:74051
Mahadevan, L. *see* **Skotheim, Jan M.**, 2005b:74075
Marigo, Jean-Jacques (*with* Madani, Kamyar) The influence of the type of loading on the asymptotic behavior of slender elastic rings. (English summary) **2005k:74051**
Mirzoev, S. S. *see* **Amenzade, R. Yu. et al.**
Mora, Maria Giovanna (*with* Müller, Stefan[1]) A nonlinear model for inextensible rods as a low energy Γ-limit of three-dimensional nonlinear elasticity. (English and French summaries) **2005b:74073**
Morassi, Antonino *see* **Freddi, Lorenzo et al.**, 2005k:74049
Moreles, Miguel Ángel (*with* Rionda, Salvador Botello; Salinas, Rogelio) Computation of natural frequencies for elastic beam models including rotary inertia and shear. The clamped-free case. (Spanish. English and Spanish summaries)
Müller, Stefan[1] *see* **Mora, Maria Giovanna**, 2005b:74073
Nesterov, Sergeĭ V. *see* **Akulenko, L. D.**, 2005i:74048
Neukirch, Sébastien *see* **Henderson, Michael E.**, 2005a:74055
Nie, Su Fang *see* **Wang, Dan Xia et al.**
Pagni, Andrea *see* **Lucchesi, Massimiliano**, 2005m:74056
Palazotto, A. N. *see* **Perel, V. Y.**, 2005b:74074
Paroni, Roberto *see* **Freddi, Lorenzo et al.**, 2005k:74049
Perel, V. Y. (*with* Palazotto, A. N.) A nonlinear model of composite delaminated beam with piezoelectric actuator, with account of nonpenetration constraint for the delamination crack faces. (English summary) **2005b:74074**
Perkins, N. C. *see* **Goyal, Sachin et al.**
Privalova, O. G. *see* **Seĭranyan, A. P.**, 2005a:74057
Raj, Anil (*with* Sujith, R. I.) Closed-form solutions for the free longitudinal vibration of inhomogeneous rods. (English summary)
Rionda, Salvador Botello *see* **Moreles, Miguel Ángel et al.**
Romero, Ignacio The interpolation of rotations and its application to finite element models of geometrically exact rods. (English summary) **2005c:74050**
Royer-Carfagni, Gianni *see* **Buonsanti, Michele**, 2005c:74048
Rubin, M. B. Numerical solution procedures for nonlinear elastic curved rods using the theory of a Cosserat point. (English summary) **2005g:74074**
Ruta, G. C. *see* **Batra, R. C. et al.**, 2005f:74052
Salinas, Rogelio *see* **Moreles, Miguel Ángel et al.**
van der Schaft, A. J. *see* **Golo, Goran et al.**, 2005c:74049
Schwetlick, Hartmut R. *see* **Lin, Chun-Chi**, 2005k:74050
Seĭranyan, A. P. (*with* Privalova, O. G.) The Lagrange problem on an optimal column: old and new results. (English summary) **2005a:74057**
Skotheim, Jan M. (*with* Mahadevan, L.) Dynamics of poroelastic filaments. (English summary) **2005b:74075**
Starostin, E. L. Symmetric equilibria of a thin elastic rod with self-contacts. (English summary) **2005d:74017**
Stramigioli, Stefano *see* **Golo, Goran et al.**, 2005c:74049
Sujith, R. I. *see* **Raj, Anil**
Swigon, David *see* **Coleman, Bernard D.**, 2005d:74016
Taha, M. H. Vibrations of non-uniform shear beams in elastic foundation. (English summary)
Tang, Shougao (*with* Yu, Aimin) Generalized variational principle on nonlinear theory of naturally curved and twisted beams. (English summary) **2005a:74058**
Tatar, Nasser-Eddine *see* **Labidi, Soraya**, 2005h:74037
Ting, T. C. T. (*with* Chen, Tungyang; Li, K. S.) Torsion of an isotropic shaft of arbitrary cross-section embedded with multicoated or graded circular cylinders of cylindrically orthotropic materials. (English summary)
Wang, Dan Xia (*with* Zhang, Jian Wen[2]; Wang, Yin Zhu; Nie, Su Fang) Existence of solutions for a strong damping nonlinear equation of a beam with sliding clamped. (Chinese. English and Chinese summaries)
Wang, Feng-Xia *see* **Zhang, Wei[10] et al.**, 2005k:74052
Wang, Yin Zhu *see* **Wang, Dan Xia et al.**
Weckner, Olaf (*with* Abeyaratne, Rohan) The effect of long-range forces on the dynamics of a bar. (English summary) **2005h:74038**
Xie, Mayue (*with* Levy, Alan J.) On the torsion of a class of nonlinear fiber composite cylinders. (English summary)
Xue, Yun[1] *see* **Liu, Yan Zhu et al.**
Yao, Ming-hui *see* **Zhang, Wei[10] et al.**, 2005k:74052
Yu, Aimin *see* **Tang, Shougao**, 2005a:74058
Zhang, Jian Wen[2] *see* **Wang, Dan Xia et al.**
Zhang, Wei[10] (*with* Wang, Feng-Xia; Yao, Ming-hui) Global bifurcations and chaotic dynamics in nonlinear nonplanar oscillations of a parametrically excited cantilever beam (English summary) **2005k:74052**
Zhao, Hong Liang[1] (*with* Liu, Kang Sheng; Liu, Zhuangyi) A note on the exponential decay of energy of a Euler-Bernoulli beam with local viscoelasticity. (English summary) **2005b:74076**

Items with secondary classifications in 74K10

Aizicovici, Sergiu (*with* Fečkan, Michal) Anti-periodic forced oscillations of damped beams on elastic bearings. (English summary) **2005j:35212**
Alart, Pierre (*with* Pagano, S.) DC solutions of postbuckling problems. (English summary) **2005f:74036**
Allahverdipur, Navid H. *see* **Joghataie, Abdolreza**
Arroyo, Josu (*with* Garay, Oscar J.; Mencía, J. J.) Closed hyperelastic curves in real space forms. (English summary) **2005j:58017**
— (*with* Garay, Oscar J.; Mencía, J. J.) Extremals of curvature energy actions on spherical closed curves. (English summary) **2005d:58023**
— (*with* Garay, Oscar J.; Mencía, J. J.) A note on closed hyperelasticae in S^3. (English summary) **2005j:58018**
Atanacković, Teodor M. (*with* Glavardanov, V. B.) Optimal shape of a heavy compressed column. (English summary) **2005i:74062**
— *see also* **Stanković, Bogoljub**, 2005m:74043
Awrejcewicz, Jan (*with* Krys'ko, V. A.; Vakakis, Alexander F.) ★ Nonlinear dynamics of continuous elastic systems. **2005b:74056**
Babuška, Ivo (*with* Sauter, Stefan) Algebraic algorithms for the analysis of mechanical trusses. (English summary) **2005a:74066**
Balaeff, Alexander (*with* Koudella, Christophe R.; Mahadevan, L.; Schulten, Klaus) Modelling DNA loops using continuum and statistical mechanics. (English summary)

2005c:92019
Balakrishnan, A. V. (*with* Shubov, Marianna A.; Peterson, Cheryl A.) Spectral analysis of coupled Euler-Bernoulli and Timoshenko beam model. (English summary) **2005d:47090**
Bera, Rasajit Kumar *see* **Ray, Santanu Saha**
Bergman, Lawrence A. *see* **Vakakis, Alexander F. et al., 2005f:74048**
Berkovits, Juha (*with* Leinfelder, Herbert; Mustonen, Vesa) Periodic solutions of nonlinear vibrating beams. **2005e:35223**
Bolgrabskaya, I. A. Allowance for shear deformations in modeling small oscillations of elastic rod systems. (Russian. Russian summary)
Bollt, Erik M. *see* **Morgan, David S. et al., 2005a:37163**
Bradford, Mark Andrew *see* **Pi, Yong-Lin**
Casado Díaz, Juan (*with* Luna-Laynez, Manuel; Murat, François) Asymptotic behavior of an elastic beam fixed on a small part of one of its extremities. (English and French summaries) **2005b:35272**
Castro, N. N. O. *see* **Raposo, C. A. et al., 2005j:35217**
Cavalcanti, Marcelo Moreira (*with* Domingos Cavalcanti, Valéria N.; Ma, T. F.) Exponential decay of the viscoelastic Euler-Bernoulli equation with a nonlocal dissipation in general domains. (English summary) **2005a:74026**
Celiker, Fatila (*with* Cockburn, Bernardo; Güzey, Sukru; Kanapady, Ramdev; Soon, Sew-Chew; Stolarski, Henryk K.; Tamma, Kumar K.) Discontinuous Galerkin methods for Timoshenko beams. (English summary) **2005k:65242**
Champneys, Alan R. (*with* Fraser, Wynstone Barrie) Resonance tongue interaction in the parametrically excited column. (English summary) **2005h:74026**
Chang, Jin De (*with* Yao, Cui Zhen) Completeness of the root subspace of a beam equation with boundary feedback control. (Chinese. English and Chinese summaries)
Chen, Cai Sheng[1] Global nonexistence for a nonlinear beam equation. (Chinese. English and Chinese summaries) **2005a:35207**
Chen, De Cheng *see* **Yang, J. B. et al.**
Chen, Tungyang *see* **Lipton, Robert, 2005j:74052**
Chen, Xuefeng *see* **Li, Bing et al., (2005i:42002)**
Chen, Zhen-Guo (*with* Yan, Qing-Xu; Li, Zhaoqi) Boundary stabilization of nonuniform Timoshenko beam with rotor inertia at the tip. (English summary) **2005c:93079**
— *see also* **Yan, Qing-Xu et al.**
Chentouf, Boumediène Dynamic boundary controls of a rotating body-beam system with time-varying angular velocity. **2005h:93130**
Chiriță, Stan On some exponential decay estimates for porous elastic cylinders. (English summary) **2005g:74050**
Choi, Ji-Yun (*with* Hong, Keum-Shik; Yang, Kyung-Jinn) Exponential stabilization of an axially moving tensioned strip by passive damping and boundary control. (English summary) **2005c:74056**
Clark, H. R. *see* **Límaco, J. et al., 2005h:35338**
Clark, James David (*with* Fraser, Wynstone Barrie; Rahn, Christopher David; Rajamani, Arun) Limit-cycle oscillations of a heavy whirling cable subject to aerodynamic drag. (English summary) **2005i:74037**
Cockburn, Bernardo *see* **Celiker, Fatila et al., 2005k:65242**
Coman, Ciprian D. Secondary bifurcations and localisation in a three-dimensional buckling model. (English summary) **2005f:74037**
Dadfarnia, Mohsen (*with* Jalili, Nader; Xian, Bin; Dawson, Darren M.) Lyapunov-based vibration control of translational Euler-Bernoulli beams using the stabilizing effect of beam damping mechanisms. (English summary) **2005a:74043**
Dai, Hui-Hui (*with* Liu, Zeng Rong) Nonlinear traveling waves in a compressible Mooney-Rivlin rod. I. Long finite-amplitude waves. (English summary) **2005j:74030**
Dawson, Darren M. *see* **Dadfarnia, Mohsen et al., 2005a:74043**
Domingos Cavalcanti, Valéria N. *see* **Cavalcanti, Marcelo Moreira et al., 2005a:74026**
Egaña, J. C. *see* **Jiménez Alarcon, Raul Dario et al., 2005b:65042**
Egorov, Yurii Vladimirovich The Lagrange problem on the optimal shape of a column. (Russian) **2005i:49044**
— On the Lagrange problem of the optimal form for circular hollow columns. (English summary) **2005f:74065**
— On the Lagrange problem about the strongest columns. (English summary) **2005g:49004**
de Espíndola, José João (*with* da Silva Neto, João Morais) Identification of flexural stiffness parameters of beams. (English summary) (*see* **2005b:93006**)
Fečkan, Michal *see* **Aizicovici, Sergiu, 2005j:35212**
Feitosa, A. J. *see* **Límaco, J. et al., 2005h:35338**
Feng, De Xing *see* **Xu, Gen Qi et al., 2005b:93081** *and* **Yan, Qing-Xu et al., 2005c:93089**
Ferreira, Jorge (*with* de Lima Santos, Mauro; Matos, M. P.) Stability for the beam equation with memory in non-cylindrical domains. (English summary) **2005e:35229**
— *see also* **Raposo, C. A. et al., 2005j:35217**; **de Lima Santos, Mauro et al., 2005k:35403** *and* **de Menezes, Silvano Bezerra et al.**
Fraser, Wynstone Barrie *see* **Champneys, Alan R., 2005h:74026** *and* **Clark, James David et al., 2005i:74037**
Frey, Erwin *see* **Hallatschek, Oskar et al., 2005i:74033**
Gal, Ciprian G. On a nonlinear variant of the beam equation with Wentzell boundary conditions. **2005g:35035**
Gao, Shi Chen (*with* Wan, Li[2]; Yan, Qing-Xu) A note on nonlinear boundary stabilization of nonuniform Euler-Bernoulli beam. (English and Chinese summaries) **2005j:93065**
Garay, Oscar J. *see* **Arroyo, Josu et al., 2005d:58023**; **2005j:58017** *and* **2005j:58018**
Ge, Shuzhi Sam *see* **Gong, Jianqin et al., 2005f:93066**
Giorgi, Claudio (*with* Vegni, Federico Mario) Uniform energy estimates for a semilinear evolution equation of the Mindlin-Timoshenko beam with memory. (English summary) **2005b:35274**
Glavardanov, V. B. *see* **Atanacković, Teodor M., 2005i:74062**
Gong, Jianqin (*with* Ge, Shuzhi Sam; Wan, Bai Wu) Robust distributed controller design of rotational single-link smart materials beam. (English summary) **2005f:93066**
Grobbelaar-Van Dalsen, Marié Dynamic boundary stabilization of a Reissner-Mindlin plate with Timoshenko beam. (English summary) **2005h:49070**
Guo, Bao Zhu (*with* Xie, Yu[1]) Basis property and stabilization of a translating tensioned beam through a pointwise control force. (English summary) **2005d:74023**
— (*with* Zhang, Qiong) On harmonic disturbance rejection of an undamped Euler-Bernoulli beam with rigid tip body. (English summary) **2005h:93073**
— (*with* Wang, Jun Min[2]; Yung, Siu Pang) On the C_0-semigroup generation and exponential stability resulting from a shear force feedback on a rotating beam. (English summary) **2005k:93149**
Guo, Faming (*with* Huang, Fa-Lun) Boundary feedback stabilization of the undamped Euler-Bernoulli beam with both ends free. (English summary) **2005e:93076**
Güzey, Sukru *see* **Celiker, Fatila et al., 2005k:65242**
(Halevi, Yoram) *see* **Larin, Vladimir B.**
Hallatschek, Oskar (*with* Frey, Erwin; Kroy, Klaus) Overdamped stress relaxation in buckled rods. (English summary) **2005i:74033**
He, Zhengjia *see* **Li, Bing et al., (2005i:42002)**
Hoffman, Kathleen A. Methods for determining stability in continuum elastic-rod models of DNA. (English summary) **2005c:74055**
Hong, Keum-Shik *see* **Choi, Ji-Yun et al., 2005c:74056**
Hua, Hongxing *see* **Shi, Yinming et al.**
Huang, Fa-Lun *see* **Guo, Faming, 2005e:93076**
Ibrahimbegovic, A. (*with* Knopf-Lenoir, C.; Kučerová, A.; Villon, Pierre) Optimal design and optimal control of structures undergoing finite rotations and elastic deformations. (English summary) **2005f:74066**
Il'ichev, A. T. Instability of solitons in inextensible rods. (Russian) **2005k:74046**
Jalili, Nader *see* **Dadfarnia, Mohsen et al., 2005a:74043**
Janczewska, Joanna The necessary and sufficient condition for bifurcation in the von Kármán equations. (English summary) **2005a:35271**
Jia, Gao (*with* Song, Ying-Qing; Li, Qiong) Calculation of eigenvalues for a class of crosswise vibration equation of the beam. (English summary) **2005k:74076**
Jiang, L. J. *see* **Yang, J. B. et al.**
Jiménez Alarcon, Raul Dario (*with* Santos, L. C.; Kuhl, N. M.; Egaña, J. C.; Soto, Ricardo) An inverse eigenvalue procedure for damage detection in rods. (English summary) **2005b:65042**
Joghataie, Abdolreza (*with* Allahverdipur, Navid H.) Iterative univariate optimization of nonlinear trusses with fuzzy strain constraints. (English summary)
Kametaka, Yoshinori *see* **Takemura, Kazuo et al., 2005e:34076**
Kanapady, Ramdev *see* **Celiker, Fatila et al., 2005k:65242**
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Kroy, Klaus *see* **Hallatschek, Oskar et al., 2005i:74033**
Krużelecki, Jacek (*with* Smaś, Paweł) Optimal design of simply supported columns for buckling under loading controlled by displacements. (English summary)
Krys'ko, V. A. *see* **Awrejcewicz, Jan et al., 2005b:74056**
Kučerová, A. *see* **Ibrahimbegovic, A. et al., 2005f:74066**
Kuhl, N. M. *see* **Jiménez Alarcon, Raul Dario et al., 2005b:65042**
Lagoudas, D. C. *see* **Newman, Michael Glen et al., 2005k:65214**
Larin, Vladimir B. Comments on: "Approximated Gramians and balanced realization of lightly damped flexible structures" [IEEE Trans. Automat. Control **47** (2002), no. 1, 193–198; MR1879712] by Y. Halevi. (English summary)
Lastenko, Mikhail S. (*with* Zubov, Leonid M.) A model of neck formation on a rod under tension. (English summary) **2005a:74038**
Leinfelder, Herbert *see* **Berkovits, Juha et al., 2005e:35223**
Li, Bing (*with* Chen, Xuefeng; He, Zhengjia; Zhuo, Jie) Beam bending analysis using wavelet finite element. (English summary) (*see* **2005i:42002**)
Li, Qiong *see* **Jia, Gao et al., 2005k:74076**
Li, Zhaoqi *see* **Chen, Zhen-Guo et al., 2005c:93079**
Límaco, J. (*with* Clark, H. R.; Feitosa, A. J.) Beam evolution equation with variable coefficients. (English summary) **2005h:35338**
de Lima Santos, Mauro (*with* Rocha, Marcus P. C.; Pereira, Ducival C.; Ferreira, Jorge) Solvability for a nonlinear coupled system of Kirchhoff type for the beam equations with nonlocal boundary conditions. (English summary) **2005k:35403**
— *see also* **Ferreira, Jorge et al., 2005e:35229** *and* **Raposo, C. A. et al., 2005j:35217**
Lin, Fuyong[2] Orthogonal bases of 3-B-spline and its' application in bending problem of plate and beam system. (English summary)
Lin, J. E. Local time decay for a nonlinear beam equation. (English summary) **2005j:35215**
Lipton, Robert (*with* Chen, Tungyang) Bounds and extremal configurations for the torsional rigidity of coated fiber reinforced shafts. (English summary) **2005j:74052**
Liu, Kang Sheng *see* **Zhao, Hong Liang[1] et al., 2005m:35300**
Liu, Zeng Rong *see* **Dai, Hui-Hui, 2005j:74030**
Lu, Dian Chen (*with* Yan, Min Juan; Tian, Li Xin; Zhang, Zheng Di) H_∞ control of nonlinear simply supported beam vibrations. (Chinese. English and Chinese summaries)
Lu, Ling-Yi (*with* Lu, Zi Hua) The Hilbert phenomenon in chaotic motions. (English summary) **2005f:37064**
Lu, Zi Hua *see* **Lu, Ling-Yi, 2005f:37064**
Luna-Laynez, Manuel *see* **Casado Díaz, Juan et al., 2005b:35272**
Lychëv, S. A. Non-steady-state oscillations of an aging viscoelastic rod. (Russian. English and Russian summaries)
Ma, Ru Yun (*with* Song, Ling Yu) Positive solutions of an equation associated with an elastic beam with simply supported end-points. (Chinese. English and Chinese summaries) **2005b:34048**
Ma, T. F. (*with* da Silva, Jair) Iterative solutions for a beam equation with nonlinear boundary conditions of third order. (English summary) **2005f:65098**
— Positive solutions for a beam equation on a nonlinear elastic foundation. (English summary) **2005j:34036**
— Positive solutions for a nonlinear Kirchhoff type beam equation. (English summary) **2005k:34091**
— *see also* **Cavalcanti, Marcelo Moreira et al., 2005a:74026**
Macchelli, Alessandro (*with* Melchiorri, Claudio) Control by interconnection of the Timoshenko beam. (English summary) **2005g:74085**
— (*with* Melchiorri, Claudio) Modeling and control of the Timoshenko beam. The distributed port Hamiltonian approach. (English summary) **2005m:74066**

Mahadevan, L. *see* **Balaeff, Alexander et al., 2005c:92019**
Maĭlybaev, A. A. (*with* Yabuno, H.; Kaneko, H.) Optimal shapes of parametrically excited beams. (English summary)
Manevich, L. I. *see* **Vakakis, Alexander F. et al., 2005f:74048**
Matos, M. P. *see* **Ferreira, Jorge et al., 2005e:35229**
Melchiorri, Claudio *see* **Macchelli, Alessandro, 2005g:74085** *and* **2005m:74066**
Mencía, J. J. *see* **Arroyo, Josu et al., 2005d:58023**; **2005j:58017** *and* **2005j:58018**
de Menezes, Silvano Bezerra (*with* de Oliveira, Eliane A.; Pereira, Ducival C.; Ferreira, Jorge) Existence, uniqueness and uniform decay for the nonlinear beam degenerate equation with weak damping. (English summary)
Mikulski, Leszek Control structure in optimization problems of bar systems. (English summary)
Mora, Maria Giovanna (*with* Müller, Stefan[1]) Derivation of the nonlinear bending-torsion theory for inextensible rods by Γ-convergence. (English summary) **2005j:74022**
Moreles, Miguel Ángel Exact controllability and perturbation analysis for elastic beams. (English summary) **2005d:93014**
Morgan, David S. (*with* Bollt, Erik M.; Schwartz, Ira B.) Constructing constrained invariant sets in multiscale continuum systems. (English summary) **2005a:37163**
Müller, Stefan[1] *see* **Mora, Maria Giovanna, 2005j:74022**
Murat, François *see* **Casado Díaz, Juan et al., 2005b:35272**
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Mustonen, Vesa *see* **Berkovits, Juha et al., 2005e:35223**
Nagai, Atsushi *see* **Takemura, Kazuo et al., 2005e:34076**
Nazarov, Sergei A. Estimates for the accuracy of modeling boundary value problems on the junction of domains with different limit dimensions. (Russian. Russian summary) **2005i:35060**
— Weighted anisotropic Korn's inequality for a junction of a plate and rods. (Russian. Russian summary) **2005j:74040**
Newman, Michael Glen (*with* Safjan, Andrzej J.; Popov, Peter A.; Lagoudas, D. C.) A non-reflecting layer method for non-linear wave-type equations on unbounded domains with applications to shape memory alloy rods. (English summary) **2005k:65214**
Nicaise, Serge (*with* Zaïr, Ouahiba) Determination of point sources in vibrating beams by boundary measurements: identifiability, stability, and reconstruction results. (English summary) **2005h:35364**
Nie, Su Fang (*with* Zhang, Jian Wen[2]; Wang, Dan Xia) An initial boundary value problem for nonlinear viscoelastic rods. (Chinese. English and Chinese summaries)
de Oliveira, Eliane A. *see* **de Menezes, Silvano Bezerra et al.**
de Oliveira, Frederico Ricardo Ferreira *see* **de Toledo Fleury, Agenor, (2005b:93006)**
Pagano, S. *see* **Alart, Pierre, 2005f:74036**
Park, Jong Yeoul (*with* Kim, Joung Ae) Existence and uniform decay for Euler-Bernoulli beam equation with memory term. (English summary) **2005d:35256**
Pastukhova, S. E. Homogenization of problems in the theory of elasticity of periodic rod structures of critical width. (Russian)
Pedregal, Pablo On the generality of variational principles. (English summary) **2005k:49127**
Peradze, D. G. The existence of a solution and a numerical method for the Timoshenko nonlinear wave system. (English summary) **2005h:35340**
Pereira, Ducival C. *see* **de Lima Santos, Mauro et al., 2005k:35403** *and* **de Menezes, Silvano Bezerra et al.**
Peterson, Cheryl A. *see* **Shubov, Marianna A., 2005b:35276** *and* **Balakrishnan, A. V. et al., 2005d:47090**
Pi, Yong-Lin (*with* Bradford, Mark Andrew) Elastic flexural-torsional buckling of fixed arches. (English summary)
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Popov, Peter A. *see* **Newman, Michael Glen et al., 2005k:65214**
Rahn, Christopher David *see* **Clark, James David et al., 2005i:74037**
Rajamani, Arun *see* **Clark, James David et al., 2005i:74037**
Raposo, C. A. (*with* Ferreira, Jorge; de Lima Santos, Mauro; Castro, N. N. O.) Exponential stability for the Timoshenko system with two weak dampings. (English summary) **2005j:35217**
Ray, Santanu Saha (*with* Bera, Rasajit Kumar) Application of Adomian method on the elastic wave propagation in a semi-infinite elastic rod of randomly varying cross section. (English summary)
Rocha, Marcus P. C. *see* **de Lima Santos, Mauro et al., 2005k:35403**
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Schwartz, Ira B. *see* **Morgan, David S. et al., 2005a:37163**
Selyugin, S. V. On optimal geometrically non-linear trusses. (English summary) **2005j:74049**
Shi, Yinming (*with* Hua, Hongxing; Sol, Hugo) The finite element analysis and experimental study of beams with active constrained layer damping treatments. (English summary)
Shorr, B. F. ★ The wave finite element method. **2005a:74089**
Shubov, Marianna A. (*with* Peterson, Cheryl A.) Asymptotic analysis of nonselfadjoint operators generated by coupled Euler-Bernoulli and Timoshenko beam model. (English summary) **2005b:35276**
— *see also* **Balakrishnan, A. V. et al., 2005d:47090**
Sikolya, Eszter Simultaneous observability of networks of beams and strings. (English summary) **2005d:93025**
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da Silva Neto, João Morais *see* **de Espíndola, José João, (2005b:93006)**
Singh, Rattan Longitudinal vibrations in a semi-infinite piezo-electric bar under an arbitrary body-force in a magnetic field. (English summary)
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Song, Ling Yu *see* **Ma, Ru Yun, 2005b:34048**
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Soto, Ricardo *see* **Jiménez Alarcon, Raul Dario et al., 2005b:65042**
Sprekels, Jürgen (*with* Tiba, Dan) An approximation method for curved rods. (English summary) **2005f:74040**
Stanković, Bogoljub (*with* Atanacković, Teodor M.) On the lateral vibrations of an elastic rod with varying compressive force. (English summary) **2005m:74043**
Stolarski, Henryk K. *see* **Celiker, Fatila et al., 2005k:65242**
Stuart, Charles A. (*with* Vuillaume, G.) Buckling of a critically tapered rod: properties of some global branches of solutions. (English summary) **2005g:34046**
Takemura, Kazuo (*with* Kametaka, Yoshinori; Nagai, Atsushi) Two-point simple-type self-adjoint boundary value problems for bending a beam-dependency of Green functions on an interval length. (English summary) **2005e:34076**
Tamma, Kumar K. *see* **Celiker, Fatila et al., 2005k:65242**
Tian, Li Xin *see* **Lu, Dian Chen et al.**
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Tobias, Irwin Thermal fluctuations of small rings of intrinsically helical DNA treated like an elastic rod. (English summary) **2005b:92028**
de Toledo Fleury, Agenor (*with* de Oliveira, Frederico Ricardo Ferreira) Dynamics and control of a flexible rotating arm through the movement of a sliding mass. (English summary) (*see* **2005b:93006**)
Vakakis, Alexander F. (*with* Manevich, L. I.; Musienko, A. I.; Kerschen, Gaetan; Bergman, Lawrence A.) Transient dynamics of a dispersive elastic wave guide weakly coupled to an essentially nonlinear end attachment. (English summary) **2005f:74048**
— *see also* **Awrejcewicz, Jan et al., 2005b:74056**
Vegni, Federico Mario *see* **Giorgi, Claudio, 2005b:35274**
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Wan, Li[2] *see* **Gao, Shi Chen et al., 2005j:93065**
Wang, Dan Xia *see* **Nie, Su Fang et al.**
Wang, Feng-Xia *see* **Zhang, Wei[10] et al., 2005f:34114** *and* **2005i:74039**
Wang, Jun Min[2] (*with* Xu, Gen Qi; Yung, Siu Pang) Exponential stability of variable coefficients Rayleigh beams under boundary feedback controls: a Riesz basis approach. (English summary) **2005d:93120**
— *see also* **Vũ Quốc Phóng et al., 2005i:35267** *and* **Guo, Bao Zhu et al., 2005k:93149**
Xian, Bin *see* **Dadfarnia, Mohsen et al., 2005a:74043**
Xie, Yu[1] *see* **Guo, Bao Zhu, 2005d:74023**
Xu, Gen Qi (*with* Feng, De Xing; Yung, Siu Pang) Riesz basis property of the generalized eigenvector system of a Timoshenko beam. (English summary) **2005b:93081**
— (*with* Yung, Siu Pang) Exponential decay rate for a Timoshenko beam with boundary damping. (English summary)
— *see also* **Wang, Jun Min[2] et al., 2005d:93120** *and* **Vũ Quốc Phóng et al., 2005i:35267**
Yabuno, H. *see* **Maĭlybaev, A. A. et al.**
Yan, Min Juan *see* **Lu, Dian Chen et al.**
Yan, Qing-Xu (*with* Zou, Hui-chao; Feng, De Xing) Nonlinear boundary stabilization of nonuniform Timoshenko beam. (English summary) **2005c:93089**
— (*with* Chen, Zhen-Guo; Feng, De Xing) Exponential stabilization of Euler-Bernoulli beam with dissipative boundary feedback. (English and Chinese summaries)
— *see also* **Chen, Zhen-Guo et al., 2005c:93079** *and* **Gao, Shi Chen et al., 2005j:93065**
Yang, J. B. (*with* Jiang, L. J.; Chen, De Cheng) Dynamic modelling and control of a rotating Euler-Bernoulli beam. (English summary)
Yang, Kyung-Jinn *see* **Choi, Ji-Yun et al., 2005c:74056**
Yao, Cui Zhen *see* **Chang, Jin De** *and* **Zhang, Shu Qin**
Yao, Qing Liu Solvability of an elastic beam equation with Caratheodory function. (English and Chinese summaries) **2005f:34052**
Yebari, Naji Decay estimates for solutions of some systems for elasticity with nonlinear boundary feedback. (English summary) (*see* **2005i:35003**)
Yin, Zhao Yang On the blow-up of solutions of a periodic nonlinear dispersive wave equation in compressible elastic rods. (English summary) **2005c:35211**
Yung, Siu Pang *see* **Xu, Gen Qi et al., 2005b:93081**; **Wang, Jun Min[2] et al., 2005d:93120**; **Vũ Quốc Phóng et al., 2005i:35267** *and* **Guo, Bao Zhu et al., 2005k:93149**
Zaïr, Ouahiba *see* **Nicaise, Serge, 2005h:35364**
Zhang, Chun Guo *see* **Zhao, Hong Liang[1] et al., 2005m:35300**
Zhang, Jian Wen[2] *see* **Nie, Su Fang et al.**
Zhang, Qiong *see* **Guo, Bao Zhu, 2005h:93073**
Zhang, Shu Qin (*with* Yao, Cui Zhen) The dynamic behavior of Euler-Bernoulli beam under self-excited boundary feedback. (Chinese. English and Chinese summaries)
Zhang, Wei[10] (*with* Wang, Feng-Xia; Zu, Jean W.) Computation of normal forms for high dimensional non-linear systems and application to non-planar non-linear oscillations of a cantilever beam. (English summary) **2005f:34114**
— (*with* Wang, Feng-Xia; Zu, Jean W.) Local bifurcations and codimension-3 degenerate bifurcations of a quintic nonlinear beam under parametric excitation. (English summary) **2005i:74039**
Zhang, Zheng Di *see* **Lu, Dian Chen et al.**
Zhao, Hong Liang[1] (*with* Liu, Kang Sheng; Zhang, Chun Guo) Stability for the Timoshenko beam system with local Kelvin-Voigt damping. (English summary) **2005m:35300**
Zhuo, Jie *see* **Li, Bing et al., (2005i:42002)**
Zou, Hui-chao *see* **Yan, Qing-Xu et al., 2005c:93089**
Zu, Jean W. *see* **Zhang, Wei[10] et al., 2005f:34114** *and* **2005i:74039**
Zubov, Leonid M. *see* **Lastenko, Mikhail S., 2005a:74038**

74K15 Membranes

Bouchitté, Guy (*with* Fonseca, Irene; Mascarenhas, M. Luisa) Bending moment in membrane theory. (English summary) **2005c:74051**

Dickey, R. W. Equilibrium states of inextensible membranes under gravity. (English summary) **2005m:74057**
Fonseca, Irene *see* **Bouchitté, Guy et al., 2005c:74051**
Kerdid, Nabil (*with* Le Dret, Hervé; Saïdi, Abdelkader) Approximation numérique d'un problème de membrane non linéaire. (English and French summaries) [Numerical approximation for a nonlinear membrane problem] **2005h:74039**
Lazzari, Massimiliano *see* **Rossi, Riccardo et al., 2005j:74037**
Le Dret, Hervé *see* **Kerdid, Nabil et al., 2005h:74039**
Mascarenhas, M. Luísa *see* **Bouchitté, Guy et al., 2005c:74051**
Neff, Patrizio A geometrically exact viscoplastic membrane-shell with viscoelastic transverse shear resistance avoiding degeneracy in the thin-shell limit. I. The viscoelastic membrane-plate. (English summary) **2005j:74036**
Oñate, Eugenio *see* **Rossi, Riccardo et al., 2005j:74037**
Pozrikidis, C. Shell theory for capsules and cells. (English summary) (*see* **2005b:92016**)
Rossi, Riccardo (*with* Lazzari, Massimiliano; Vitaliani, Renato; Oñate, Eugenio) Simulation of light-weight membrane structures by wrinkling model. (English summary) **2005j:74037**
Saïdi, Abdelkader *see* **Kerdid, Nabil et al., 2005h:74039**
Trabelsi, Karim Incompressible nonlinearly elastic thin membranes. (English and French summaries) **2005i:74050**
Venkataramani, Shankar C. Lower bounds for the energy in a crumpled elastic sheet—a minimal ridge. (English summary) **2005b:74077**
Vitaliani, Renato *see* **Rossi, Riccardo et al., 2005j:74037**

Items with secondary classifications in 74K15

Agarwal, Ravi P. (*with* O'Regan, Donal) An infinite interval problem arising in circularly symmetric deformations of shallow membrane caps. (English summary) **2005c:34037**
Amar, Micol (*with* Berrone, Lucio R.; Gianni, Roberto) Asymptotic expansions for membranes subjected to a lifting force in a part of their boundary. (English summary) **2005b:35049**
Andrews, Kevin T. (*with* Chapman, L.; Fernández García, José Ramón; Fisackerly, M.; Shillor, Meir; Vanerian, L.; VanHouten, T.) A membrane in adhesive contact. (English summary) **2005g:74087**
Babadjian, Jean-François (*with* Francfort, Gilles A.) Spatial heterogeneity in 3D-2D dimensional reduction. (English summary) **2005k:49035**
Barthès-Biesel, D. Flow-induced capsule deformation. (English summary) (*see* **2005b:92016**)
Belmonte, Andrew *see* **Podgorski, T., 2005h:76008**
Berrone, Lucio R. *see* **Amar, Micol et al., 2005b:35049**
Bessi Fourati, R. *see* **Bonnans, Joseph Frédéric et al., 2005c:74020**
Blank, Ivan A partial classification of the blowups of the singularities in a composite membrane problem. (English summary) **2005k:35435**
Bletzinger, Kai-Uwe (*with* Wüchner, Roland; Daoud, Fernaß; Camprubí, Natalia) Computational methods for form finding and optimization of shells and membranes. (English summary)
Blyth, M. G. (*with* Pozrikidis, C.) Solution space of axisymmetric capsules enclosed by elastic membranes. (English summary) **2005c:74019**
Bonnans, Joseph Frédéric (*with* Bessi Fourati, R.; Smaoui, H.) The obstacle problem for water tanks. (English and French summaries) **2005c:74020**
Borhan, A. (*with* Gupta, Nivedita Ranbir) Capsule motion and deformation in tube and channel flow. (English summary) (*see* **2005b:92016**)
Camprubí, Natalia *see* **Bletzinger, Kai-Uwe et al.**
Chapman, L. *see* **Andrews, Kevin T. et al., 2005g:74087**
Chipot, Michel Elastic deformations of membranes and wires. (English summary) **2005h:35134**
Conti, Sergio (*with* DeSimone, Antonio; Müller, Stefan[1]) Self-similar folding patterns and energy scaling in compressed elastic sheets. (English summary) **2005k:74056**
Daoud, Fernaß *see* **Bletzinger, Kai-Uwe et al.**
DeSimone, Antonio *see* **Conti, Sergio et al., 2005k:74056**
Du, Qiang (*with* Liu, Chun; Wang, Xiaoqiang) A phase field approach in the numerical study of the elastic bending energy for vesicle membranes. (English summary) **2005b:74085**
Erbay, Husnu A. (*with* Tüzel, V. H.) Dynamic extension of a compressible nonlinearly elastic membrane tube. (English summary) **2005h:74012**
Fernández García, José Ramón *see* **Andrews, Kevin T. et al., 2005g:74087**
Fisackerly, M. *see* **Andrews, Kevin T. et al., 2005g:74087**
Francfort, Gilles A. *see* **Babadjian, Jean-François, 2005k:49035**
Friedlander, Leonid Remarks on the membrane and buckling eigenvalues for planar domains. (English and Russian summaries) **2005m:35204**
Gianni, Roberto *see* **Amar, Micol et al., 2005b:35049**
Golovatyĭ, Yu. D. (*with* Gómez, Delfina; Lobo-Hidalgo, Miguel; Pérez, Eugenia) On vibrating membranes with very heavy thin inclusions. (English summary) **2005c:35070**
Gómez, Delfina *see* **Golovatyĭ, Yu. D. et al., 2005c:35070**
Gupta, Nivedita Ranbir *see* **Borhan, A., (2005b:92016)**
Knowles, Ian W. (*with* McCarthy, Maeve L.) Isospectral membranes: a connection between shape and density. (English summary) **2005f:30016**
Liu, Chun *see* **Du, Qiang et al., 2005b:74085**
Lobo-Hidalgo, Miguel *see* **Golovatyĭ, Yu. D. et al., 2005c:35070**
McCarthy, Maeve L. *see* **Knowles, Ian W., 2005f:30016**
Müller, Stefan[1] *see* **Conti, Sergio et al., 2005k:74056**
O'Regan, Donal *see* **Agarwal, Ravi P., 2005c:34037**
Ou-Yang, Z. C. *see* **Tu, Z. C., 2005g:74083**
Pérez, Eugenia *see* **Golovatyĭ, Yu. D. et al., 2005c:35070**
Podgorski, T. (*with* Belmonte, Andrew) Surface folding of viscoelastic fluids: finite elasticity membrane model. (English summary) **2005h:76008**
Pozrikidis, C. *see* **Modeling and simulation of capsules and biological cells, 2005b:92016** *and* **Blyth, M. G., 2005c:74019**
Ramm, Ekkehard (*with* Wall, Wolfgang A.) Shell structures—a sensitive interrelation between physics and numerics. (English summary)
Shillor, Meir *see* **Andrews, Kevin T. et al., 2005g:74087**
Smaoui, H. *see* **Bonnans, Joseph Frédéric et al., 2005c:74020**
Steigmann, David J. Puncturing a thin elastic sheet. (English summary) **2005f:74064**
Tu, Z. C. (*with* Ou-Yang, Z. C.) A geometric theory on the elasticity of bio-membranes. (English summary) **2005g:74083**
Tüzel, V. H. *see* **Erbay, Husnu A., 2005h:74012**
Vanerian, L. *see* **Andrews, Kevin T. et al., 2005g:74087**
VanHouten, T. *see* **Andrews, Kevin T. et al., 2005g:74087**
Wall, Wolfgang A. *see* **Ramm, Ekkehard**
Wang, Xiaoqiang *see* **Du, Qiang et al., 2005b:74085**
Wüchner, Roland *see* **Bletzinger, Kai-Uwe et al.**

Items listed otherwise than by author

Modeling and simulation of capsules and biological cells ★ Modeling and simulation of capsules and biological cells. **2005b:92016**

74K20 Plates

Achary, G. G. S. *see* **Kapuria, S.**
Aliabadi, M. H. *see* **Pérez-Gavilán, J. J., 2005g:74077**
Andrianov, Igor V. (*with* Awrejcewicz, Jan) Theory of plates and shells: new trends and applications. (English summary)
Åslund, Jan Asymptotic analysis of adhesively bonded nonlinearly elastic plates. (English summary) **2005k:74053**
Auricchio, Ferdinando (*with* Lovadina, Carlo; Madureira, Alexandre L.) An asymptotically optimal model for isotropic heterogeneous linearly elastic plates. (English summary) **2005i:74051**
Awrejcewicz, Jan *see* **Andrianov, Igor V.**
Bogan, Yu. A. Regular integral equations for the second boundary value problem of the bending of an anisotropic elastic plate. (Russian. Russian summary)
Chattopadhyay, Aditi *see* **Ghoshal, Anindya et al.**
Chen, Li Qun (*with* Cheng, Chang-Jun) Instability of nonlinear viscoelastic plates. (English summary) **2005h:74040**
Cheng, Chang-Jun *see* **Chen, Li Qun, 2005h:74040**
Chudinovich, Igor (*with* Constanda, Christian; Colín Venegas, José) The Cauchy problem in the theory of thermoelastic plates with transverse shear deformation. (English summary) **2005k:74054**
— (*with* Constanda, Christian; Gómez, Eduardo Aguilera) Weak solutions for time-dependent boundary integral equations associated with the bending of elastic plates under combined boundary data. (English summary) **2005b:74078**
Colín Venegas, José *see* **Chudinovich, Igor et al., 2005k:74054**
Constanda, Christian *see* **Chudinovich, Igor et al., 2005b:74078** *and* **2005k:74054**
Dzhaiani, G. V. Bending of a cusped plate on an elastic foundation. (English summary) **2005j:74038**
El-Bary, Alaa A. Solution of Fredholm integrodifferential equation for an infinite elastic plate. (English summary) **2005i:74052**
— Singular integrodifferential equation for infinite thermoelastic plate. (English summary) **2005m:74058**
Elishakoff, Isaac (*with* Storch, Joel A.) An unusual exact, closed-form solution for axisymmetric vibration of inhomogeneous simply supported circular plates. (English summary)
— *see also* **Storch, Joel A.**
England, A. H. Complex variable solutions for an inhomogeneous thick plate containing a hole or a crack. (English summary) **2005g:74075**
Ferreira, Antonio J. M. Analysis of composite laminated plates using Legendre polynomials and a radial basis function method. (Portuguese. English and Portuguese summaries)
Figueiredo, Isabel (*with* Trabucho, Luis) Asymptotic model of a nonlinear adaptive elastic rod. (English summary) **2005g:74076**
Frolov, M. E. *see* **Repin, S. I., 2005i:74054**
Ghoshal, Anindya (*with* Kim, Heung Soo; Chattopadhyay, Aditi; Prosser, William H.) Effect of delamination on transient history of smart composite plates. (English summary)
Gómez, Eduardo Aguilera *see* **Chudinovich, Igor et al., 2005b:74078**
Gottlieb, David *see* **Yosibash, Zohar et al., 2005d:74019**
Hansen, Scott W. Several related models for multilayer sandwich plates. (English summary) **2005e:74033**
Ismail, I. S. S-plane analysis for the fundamental problems of a stretched infinite plate weakened by curvilinear holes. (English summary) **2005c:74052**
Janjgava, R. General solutions of stretch-press and bending equations of binary mixtures using I. Vekua's method for $N = 1$ approximation. (Georgian summary) **2005e:74034**
Kalzhanova, G. K. *see* **Tyurekhodzhaev, A. N.**
Kaplunov, Yu. D. (*with* Pichugin, A. V.) A bending quasi-front generated by an instantaneous impulse loading at the edge of a semi-infinite pre-stressed incompressible elastic plate. (English summary) **2005j:74039**
Kapuria, S. (*with* Achary, G. G. S.) Exact 3D piezothermoelasticity solution for buckling of hybrid cross-ply plates using state space approach. (English summary)
Kim, Heung Soo *see* **Ghoshal, Anindya et al.**
Kirby, R. M. *see* **Yosibash, Zohar et al., 2005d:74019**
Koĭsin, V. E. *see* **Skvortsov, V. R. et al., 2005m:74059**
Krakhmalev, S. Yu. *see* **Skvortsov, V. R. et al., 2005m:74059**
Kreuzer, E. *see* **Shukla, K. K. et al.**
Krys'ko, V. A. *see* **Pavlov, S. P., 2005d:74018**
Ladevèze, Pierre The exact theory of plate bending. (English summary) **2005a:74059**
Lazopoulos, K. A. On the gradient strain elasticity theory of plates. (English summary) **2005c:74053**
Lovadina, Carlo *see* **Auricchio, Ferdinando et al., 2005i:74051**
Madureira, Alexandre L. *see* **Auricchio, Ferdinando et al., 2005i:74051**
Melnikov, Yu. A. Influence functions of a point force for multiply connected Kirchhoff plates. (English summary) **2005b:74079**
Meunargiya, T. V. On one application of complex analysis in the theory of non-shallow shells.

Mitric, R. (*with* Schiavone, P.) Integral solution of a problem with non-standard boundary conditions in an enhanced theory of bending of elastic plates. (English summary) **2005i:74053**

Nardinocchi, Paola (*with* Podio-Guidugli, Paolo) Levinson-type benchmarks for slide-clamped and elastically supported plates. (English summary) **2005a:74060**

Nath, Y. *see* **Shukla, K. K. et al.**

Pavlov, S. P. (*with* Krys′ko, V. A.) A mixed variational formulation of the problem of a plate freely supported on a curvilinear contour. (Russian) **2005d:74018**

Pérez-Gavilán, J. J. (*with* Aliabadi, M. H.) A Galerkin formulation for shear deformable plate bending dynamics. (English summary) **2005g:74077**

Pichugin, A. V. *see* **Kaplunov, Yu. D., 2005j:74039**

Podio-Guidugli, Paolo *see* **Nardinocchi, Paola, 2005a:74060**

Prosser, William H. *see* **Ghoshal, Anindya et al.**

Repin, S. I. (*with* Frolov, M. E.) An estimate for deviations from the exact solution of the Reissner-Mindlin plate problem. (Russian. English and Russian summaries) **2005i:74054**

Rudoĭ, E. M. Invariant integrals for the equilibrium problem for a plate with a crack. (Russian. Russian summary) **2005g:74078**

Schiavone, P. *see* **Mitric, R., 2005i:74053**

Shukla, K. K. (*with* Nath, Y.; Kreuzer, E.) Buckling and transient behaviour of layered composite plates under thermomechanical loading. (English summary)

Simmonds, J. G. Exact Lévy-type solutions for plate bending exist for transversely isotropic but not for general monoclinic materials. (English summary) **2005g:74079**

Skvortsov, V. R. (*with* Koĭsin, V. E.; Krakhmalev, S. Yu.) Dynamic interaction of a rigid body with a plate on an elastic layer and a half-space. (Russian. Russian summary) **2005m:74059**

Storch, Joel A. (*with* Elishakoff, Isaac) Apparently first closed-form solutions of inhomogeneous circular plates in 200 years after Chladni.

— *see also* **Elishakoff, Isaac**

Taha, M. H. Vibration analysis of viscoelastic nonuniform shear plates. (English summary)

Trabucho, Luis *see* **Figueiredo, Isabel, 2005g:74076**

Tsvelodub, I. Yu. Some geometrically nonlinear problems of the deformation of inelastic plates and shallow shells. (Russian. Russian summary) **2005m:74060**

Tyurekhodzhaev, A. N. (*with* Kalzhanova, G. K.) Analytic solution of the problem of bending a nonhomogeneous flexible circular plate in a nonuniform temperature field. (Russian)

Wróblewski, Adam T-complete functions for thin and thick plates on elastic foundation. (English summary)

Wu, Shen Rong Reissner-Mindlin plate theory for elastodynamics. **2005e:74035**

Yosibash, Zohar (*with* Kirby, R. M.; Gottlieb, David) Collocation methods for the solution of von-Kármán dynamic non-linear plate systems. (English summary) **2005d:74019**

Zeĭnalova, T. Yu. Bending of a rectangular anisotropic plate with curved structures. (English summary)

Zenkour, A. M. Bending of a sector-shaped annular plate with continuous thickness variation along the radial direction. (English summary) **2005a:74061**

Items with secondary classifications in 74K20

Adali, Sarp *see* **Sloss, J. M. et al., 2005k:49072**

Alshits, V. I. (*with* Maugin, Gérard A.) Dynamics of multilayers: elastic waves in an anisotropic graded or stratified plate. (English summary) **2005i:74043**

Ambur, Damodar R. *see* **Hasanyan, Davresh J. et al., 2005c:74025**

Amendola, Giovambattista Existence, uniqueness, and asymptotic stability for a thermo-elastic plate. (English and Ukrainian summaries)

Aşkar Altay, G. (*with* Dökmeci, M. Cengiz) Variational principles and vibrations of a functionally graded plate. (English summary)

Augarde, Charles E. Generation of shape functions for rectangular plate elements. (English summary)

Avalos, George (*with* Lasiecka, Irena) The null controllability of thermoelastic plates and singularity of the associated minimal energy function. (English summary) **2005b:93015**

Awrejcewicz, Jan (*with* Krys′ko, V. A.; Vakakis, Alexander F.) ★ Nonlinear dynamics of continuous elastic systems. **2005b:74056**

— (*with* Krys′ko, V. A.; Krysko, Anton V.) Complex parametric vibrations of flexible rectangular plates. (English summary) **2005a:74042**

Babenkova, E. (*with* Kaplunov, Yu. D.) Low-frequency decay conditions for a semi-infinite elastic strip. (English summary) **2005b:74057**

Bass, Richard F. (*with* Horák, Jiří; McKenna, Patrick J.) On the lift-off constant for elastically supported plates. (English summary) **2005f:35074**

Bécache, Eliane (*with* Chaigne, Antoine; Derveaux, Grégoire; Joly, Patrick) Numerical simulation of a guitar. (English summary) **2005i:74036**

— (*with* Derveaux, Grégoire; Joly, Patrick) An efficient numerical method for the resolution of the Kirchhoff-Love dynamic plate equation. (English summary) **2005m:65230**

Beirão da Veiga, L. Optimal error bounds for the MITC4 plate bending element. (English summary) **2005h:74058**

— Finite element methods for a modified Reissner-Mindlin free plate model. (English summary) **2005k:65237**

Bock, Igor (*with* Lovíšek, Ján) On a contact problem for a viscoelastic von Kármán plate and its semidiscretization. (English summary) **2005k:49020**

Boroomand, B. (*with* Ghaffarian, M.; Zienkiewicz, O. C.) On application of two superconvergent recovery procedures to plate problems. (English summary)

Brevdo, Leonid (*with* Il′ichev, A. T.) Absolute instability of a thin visco-elastic plate in an air flow. (English summary) **2005f:74028**

Brezzi, F. (*with* Marini, L. D.) A nonconforming element for the Reissner-Mindlin plate. (English summary) **2005f:74074**

Bruch, J. C., Jr. *see* **Sloss, J. M. et al., 2005k:49072**

Bucci, Francesca (*with* Lasiecka, Irena) Singular estimates and Riccati theory for thermoelastic plate models with boundary thermal control. (English summary) **2005e:49067**

Chaigne, Antoine *see* **Bécache, Eliane et al., 2005i:74036**

Chiriţă, Stan *see* **D'Apice, Ciro, 2005f:74026** *and* **2005h:74027**

Chudinovich, Igor (*with* Constanda, Christian) ★ Variational and potential methods for a class of linear hyperbolic evolutionary processes. **2005k:35001**

— (*with* Constanda, Christian; Dolberg, Olga) On the Laplace transform of a matrix of fundamental solutions for thermoelastic plates. (English summary) **2005k:74023**

Constanda, Christian *see* **Chudinovich, Igor et al., 2005k:35001** *and* **2005k:74023**

Craster, Richard V. *see* **Gridin, Dmitri, 2005b:74065**

Dall'Acqua, Anna (*with* Sweers, G. H.) On domains for which the clamped plate system is positivity preserving. (English summary) **2005i:35064**

D'Apice, Ciro (*with* Chiriţă, Stan) Spatial behaviour for the harmonic vibrations in plates of Kirchhoff type. (English summary) **2005h:74027**

— (*with* Chiriţă, Stan) Spatial behaviour in a Mindlin-type thermoelastic plate. (English summary) **2005f:74026**

Davini, Cesare (*with* Paroni, Roberto) Generalized Hessian and external approximations in variational problems of second order. (English summary) **2005c:74029**

Deĭneka, V. S. *see* **Sergienko, Ivan V., 2005f:49066**

Derveaux, Grégoire *see* **Bécache, Eliane et al., 2005i:74036** *and* **2005m:65230**

Deschamps, Marc *see* **Shuvalov, A. L. et al., 2005b:74061**

Deshmukh, K. C. *see* **Gogulwar, V. S.**

Desmorat, B. (*with* Duvaut, G.) Optimization of the reinforcement of a 3D medium with thin composite plates. (English summary) **2005g:74098**

Ding, Qian *see* **Ye, Min et al.**

Ding, Xiaohong (*with* Yamazaki, Koetsu) Adaptive growth technique of stiffener layout pattern for plate and shell structures to achieve minimum compliance. (English summary) **2005m:74082**

Dökmeci, M. Cengiz *see* **Aşkar Altay, G.**

Dolberg, Olga *see* **Chudinovich, Igor et al., 2005k:74023**

Duvaut, G. *see* **Desmorat, B., 2005g:74098**

Dzhaiani, G. V. Theory of cusped Euler-Bernoulli beams and Kirchhoff-Love plates. **2005d:74015**

El-Zafrany, A. *see* **Razzaq, R. J., (2005d:65006)**

Gervasio, Paola (*with* Naso, Maria Grazia) Numerical approximation of controllability of trajectories for Euler-Bernoulli thermoelastic plates. (English summary) **2005g:74084**

Ghaffarian, M. *see* **Boroomand, B. et al.**

Gogulwar, V. S. (*with* Deshmukh, K. C.) Thermal stresses in a rectangular plate due to partially distributed heat supply. (English summary)

— (*with* Deshmukh, K. C.) Thermal deflection in a thin circular plate with heat sources. (English summary)

Gridin, Dmitri (*with* Craster, Richard V.) Lamb quasi-modes in curved plates. (English summary) **2005b:74065**

Grobbelaar-Van Dalsen, Marié Dynamic boundary stabilization of a Reissner-Mindlin plate with Timoshenko beam. (English summary) **2005h:49070**

Guo, Bao Zhu *see* **Zhang, Q., 2005e:93078**

Hasanyan, Davresh J. (*with* Librescu, Liviu; Ambur, Damodar R.) A few results on the foundation of the theory and behavior of nonlinear magnetoelastic plates carrying an electrical current. (English summary) **2005c:74025**

Hasebe, Norio *see* **Verma, K. L.**

Hernández, Erwin Approximation of the vibration modes of a plate coupled with a fluid by low-order isoparametric finite elements. (English summary) **2005h:65210**

Horák, Jiří *see* **Bass, Richard F. et al., 2005f:35074**

van Horssen, Wim T. *see* **Zarubinskaya, M. A., 2005m:74044**

Hu, Jun (*with* Shi, Zhong-Ci) On the convergence of Weissman-Taylor element for Reissner-Mindlin plate. (English summary) **2005c:74067**

Huang, Fa-Lun *see* **Liu, Yan[4] et al., 2005h:93138** *and* **Jiang, Wei-sheng et al.**

Il′ichev, A. T. *see* **Brevdo, Leonid, 2005f:74028**

Jiang, Wei-sheng (*with* Liu, Yan[4]; Huang, Fa-Lun) Exponential stabilization of elastic plates with damping and dynamical boundary conditions. (English and Chinese summaries)

— *see also* **Liu, Yan[4] et al., 2005h:93138**

Joly, Patrick *see* **Bécache, Eliane et al., 2005i:74036** *and* **2005m:65230**

Jung, Michael[1] *see* **Kulshreshtha, Kshitij et al., 2005b:74117** *and* **2005m:65271**

Kaplunov, Yu. D. *see* **Babenkova, E., 2005b:74057**

Khludnev, A. M. (*with* Sokołowski, Jan) Smooth domain method for crack problems. (English summary) **2005d:35096**

Kotousov, Andrei An application of the Kane and Mindlin theory to crack problems in plates of arbitrary thickness. (English summary)

Krysko, Anton V. *see* **Awrejcewicz, Jan et al., 2005a:74042**

Krys′ko, V. A. *see* **Awrejcewicz, Jan et al., 2005a:74042** *and* **2005b:74056**

Kucuk, Ismail (*with* Sadek, Ibrahim) Optimal control of an elastically connected rectangular plate-membrane system. (English summary) **2005k:49113**

Kügler, Philipp A parameter identification problem of mixed type related to the manufacture of car windshields. (English summary) **2005a:74080**

Kulshreshtha, Kshitij (*with* Nataraj, Neela; Jung, Michael[1]) Performance of a parallel mixed finite element implementation for fourth order clamped anisotropic plate bending problems in distributed memory environments. (English summary) **2005b:74117**

— (*with* Nataraj, Neela; Jung, Michael[1]) A parallel mixed finite element implementation of fourth-order plate bending problems in distributed memory environments. (English summary) **2005m:65271**

Lasiecka, Irena (*with* Triggiani, Roberto; Yao, P. F.) Carleman estimates for a plate equation on a Riemann manifold with energy level terms. (English summary) **2005g:58073**

— *see also* **Avalos, George, 2005b:93015** *and* **Bucci, Francesca, 2005e:49067**

Lawson, Stuart *see* **Tseng, Chien Hsun**

Leiva, Hugo (*with* Sivoli, Zoraida) Existence, stability and smoothness of a bounded solution for nonlinear time-varying thermoelastic plate equations. (English summary) **2005a:35202**

Librescu, Liviu *see* **Hasanyan, Davresh J. et al., 2005c:74025**

Liu, Yan[4] (*with* Jiang, Wei-sheng; Huang, Fa-Lun) On the stabilization of elastic plates with dynamical boundary control. (English summary) **2005h:93138**

— *see also* **Jiang, Wei-sheng et al.**

Lorentz, E. Ill-posed boundary conditions encountered in 3D and plate finite element simulations. (English summary) **2005m:74095**

Lovíšek, Ján *see* **Bock, Igor, 2005k:49020**

Lu, Jing *see* **Ye, Min et al.**
Marini, L. D. *see* **Brezzi, F., 2005f:74074**
Maugin, Gérard A. *see* **Alshits, V. I., 2005i:74043**
McKenna, Patrick J. *see* **Bass, Richard F. et al., 2005f:35074**
Milton, Graeme W. (*with* Serkov, S. K.; Movchan, Alexander) Realizable (average stress, average strain) pairs in a plate with holes. (English summary) **2005a:74084**
Monegato, Giovanni (*with* Strozzi, Antonio) On the contact reaction in a solid circular plate simply supported along an edge arc and deflected by a central transverse concentrated force. (English summary) **2005m:74072**
Monneau, Régis Uniform elliptic estimate for an infinite plate in linear elasticity. (English summary) **2005g:35067**
Movchan, Alexander *see* **Milton, Graeme W. et al., 2005a:74084**
Mozolevskiĭ, I. E. (*with* Süli, Endre) A priori error analysis for the *hp*-version of the discontinuous Galerkin finite element method for the biharmonic equation. (English summary) **2005c:65106**
Muñoz Rivera, Jaime Edilberto (*with* Portillo Oquendo, Higidio) A transmission problem for thermoelastic plates. (English summary) **2005b:74035**
Mzhavanadze, Sh. V. Cuts off and holes with equidurable boundaries in an infinite plate with a rectangular hole. (English and Georgian summaries) **2005i:30066**
Narmania, M. The solution some problems of temperature stresses in transtropic plate. (English and Georgian summaries)
Naso, Maria Grazia *see* **Gervasio, Paola, 2005g:74084**
Nataraj, Neela *see* **Kulshreshtha, Kshitij et al., 2005b:74117** *and* **2005m:65271**
Nazarov, Sergei A. Weighted anisotropic Korn's inequality for a junction of a plate and rods. (Russian. Russian summary) **2005j:74040**
— Estimates for the second derivatives of eigenvectors for thin anisotropic plates with variable thickness. (Russian. English and Russian summaries) **2005i:35264**
Neff, Patrizio A geometrically exact viscoplastic membrane-shell with viscoelastic transverse shear resistance avoiding degeneracy in the thin-shell limit. I. The viscoelastic membrane-plate. (English summary) **2005j:74036**
Nicotra, V. (*with* Tiero, A.) Exact solutions for linearly electroelastic plate-like bodies. (English summary) **2005g:74047**
Nohara, Ben T. Governing equations of envelope surface created by nearly bichromatic waves propagating on an elastic plate and their stability. (English summary) **2005i:74041**
Nolde, E. V. (*with* Prikazchikova, L. A.; Rogerson, Graham A.) Dispersion of small amplitude waves in a pre-stressed, compressible elastic plate. (English summary) **2005f:74050**
Norris, Andrew N. (*with* Photiadis, D. M.) Thermoelastic relaxation in elastic structures, with applications to thin plates. (English summary) **2005k:74027**
Palermo, L., Jr. Plate analysis under dynamic loads considering the shear deformation effect. (English summary) (*see* **2005d:65006**)
Paroni, Roberto *see* **Davini, Cesare, 2005c:74029**
Pathania, Vijayata *see* **Sharma, Jagan Nath, 2005k:74030**
Paumier, Jean-Claude Contact unilatéral des structures minces: modélisation, calcul et applications. (French summary) [Unilateral contact of thin structures: modelling, calculations and applications] **2005b:74091**
Peradze, D. G. The existence of a solution and a numerical method for the Timoshenko nonlinear wave system. (English summary) **2005h:35340**
Photiadis, D. M. *see* **Norris, Andrew N., 2005k:74027**
Pocheau, A. (*with* Roman, B.) Uniqueness of solutions for constrained Elastica. (English summary) **2005b:74049**
Poncelet, O. *see* **Shuvalov, A. L. et al., 2005b:74061**
Portillo Oquendo, Higidio *see* **Muñoz Rivera, Jaime Edilberto, 2005b:74035**
Prikazchikova, L. A. *see* **Nolde, E. V. et al., 2005f:74050**
Rahmani, Leila Ventcel's boundary conditions for a dynamic nonlinear plate. (English summary) **2005f:35303**
Razzaq, R. J. (*with* El-Zafrany, A.) A mesh reduction method for the analysis of composite layered stiffened plates. (English summary) (*see* **2005d:65006**)
Rogerson, Graham A. *see* **Nolde, E. V. et al., 2005f:74050**
Roman, B. *see* **Pocheau, A., 2005b:74049**
Roubíček, Tomáš Maximum principle in the optimal design of plates with stratified thickness. (English summary) **2005k:49071**
Ryzhkova, Irina Stabilization of von Kármán plate in the presence of thermal effects in a subsonic potential flow of gas. (English summary) **2005c:74036**
Sadek, Ibrahim *see* **Sloss, J. M. et al., 2005k:49072** *and* **Kucuk, Ismail, 2005k:49113**
Salazar González, José Domingo (*with* Westbrook, Rex) Inverse problems of mixed type in linear plate theory. (English summary) **2005d:35272**
Savin, Eric Diffusive regime for the high-frequency dynamics of randomly heterogeneous plates. (*see* **2005b:00020**)
Sergienko, Ivan V. (*with* Deĭneka, V. S.) Optimal control of a system described by a fourth-order two-dimensional equation with conjugation conditions. (Russian. English and Ukrainian summaries) **2005f:49066**
Serkov, S. K. *see* **Milton, Graeme W. et al., 2005a:74084**
Sharma, Jagan Nath (*with* Pathania, Vijayata) Crested waves in thermoelastic plates immersed in liquid. (English summary) **2005k:74030**
Shi, Zhong-Ci *see* **Hu, Jun, 2005c:74067**
Shuvalov, A. L. General relationships for guided acoustic waves in anisotropic plates. (English summary)
— (*with* Poncelet, O.; Deschamps, Marc) General formalism for plane guided waves in transversely inhomogeneous anisotropic plates. (English summary) **2005b:74061**
Sivoli, Zoraida *see* **Leiva, Hugo, 2005a:35202**
Sloss, J. M. (*with* Bruch, J. C., Jr.; Sadek, Ibrahim; Adali, Sarp) Boundary optimal control of structural vibrations in an annular plate. (English summary) **2005k:49072**
Sokołowski, Jan *see* **Khludnev, A. M., 2005d:35096**
Strozzi, Antonio *see* **Monegato, Giovanni, 2005m:74072**
Süli, Endre *see* **Mozolevskiĭ, I. E., 2005c:65106**
Sweers, G. H. *see* **Dall'Acqua, Anna, 2005i:35064**
Tarama, Shigeo Strong uniqueness for the plate equations. (English summary) **2005h:35342**
Teodorescu, Petre P. (*with* Toma, Ileana) On Voinea's analogy. (English summary) **2005a:70023**
Tiero, A. *see* **Nicotra, V., 2005g:74047**
Toma, Ileana *see* **Teodorescu, Petre P., 2005a:70023**
Triggiani, Roberto *see* **Lasiecka, Irena et al., 2005g:58073**
Tseng, Chien Hsun (*with* Lawson, Stuart) Initial and boundary conditions in multidimensional wave digital filter algorithms for plate vibration. (English summary)
Vakakis, Alexander F. *see* **Awrejcewicz, Jan et al., 2005b:74056**
Vedeneev, V. V. Instability of an unbounded elastic plate in a gas flow. (Russian. Russian summary) **2005g:74060**
Verma, K. L. (*with* Hasebe, Norio) On the flexural and extensional thermoelastic waves in orthotropic plates with two thermal relaxation times.
Wang, Jun Ping[1] (*with* Ye, Xiu) A superconvergent finite element scheme for the Reissner-Mindlin plate by projection methods. (English summary) **2005b:74121**
Westbrook, Rex *see* **Salazar González, José Domingo, 2005d:35272**
Wu, Shen Rong A priori error estimation of a four-node Reissner-Mindlin plate element for elasto-dynamics. (English summary) **2005j:74025**
Xie, Xiao Ping[3] From energy improvement to accuracy enhancement: improvement of plate bending elements by the combined hybrid method. (English summary) **2005b:74122**
Yamazaki, Koetsu *see* **Ding, Xiaohong, 2005m:74082**
Yao, P. F. *see* **Lasiecka, Irena et al., 2005g:58073**
Yasīns'kiĭ, A. V. An inverse problem of thermoelasticity for a circular plate fixed along the contour from the angle of rotation. (Ukrainian. English, Russian and Ukrainian summaries) **2005g:74041**
Ye, Min (*with* Lu, Jing; Zhang, Wei[10]; Ding, Qian) Local and global nonlinear dynamics of a parametrically excited rectangular symmetric cross-ply laminated composite plate. (English summary)
Ye, Xiu *see* **Wang, Jun Ping[1], 2005b:74121**
Yebari, Naji Decay estimates for solutions of some systems for elasticity with nonlinear boundary feedback. (English summary) (*see* **2005i:35003**)
Yin, Wan-Lee A unified formalism of two-dimensional anisotropic elasticity, piezoelectricity and unsymmetric laminated plates. (English summary) **2005m:74021**
Zarubinskaya, M. A. (*with* van Horssen, Wim T.) On the vibrations of a simply supported square plate on a weakly nonlinear elastic foundation. (English summary) **2005m:74044**
Zhang, Jianying Level set method for shape optimization of plate piezoelectric patches. (English summary) **2005d:49063**
Zhang, Q. (*with* Guo, Bao Zhu) Stabilization of an elastic plate with viscoelastic boundary conditions. (English summary) **2005e:93078**
Zhang, Wei[10] *see* **Ye, Min et al.**
Zienkiewicz, O. C. *see* **Boroomand, B. et al.**

74K25 Shells

Apel, Nikolas *see* **Miehe, Christian, 2005f:74053**
Avalishvili, G. *see* **Gordeziani, David, 2005k:74055**
Avdoshka, I. V. Asymptotic integration of dynamic equations of shallow shells under the action of external forces. (Russian. English and Russian summaries) **2005a:74062**
Beirão da Veiga, L. Asymptotic energy behavior of two classical intermediate benchmark shell problems. (English summary) **2005h:74041**
— Asymptotic study of the solution for pinched cylindrical shells. (English summary) **2005i:74055**
Bîrsan, Mircea The solution of Saint-Venant's problem in the theory of Cosserat shells. (English summary) **2005g:74080**
Bulychev, G. G. (*with* Sabodash, P. F.) Analytic solution of an axisymmetric problem of the dynamics of a hemispherical dome. (Russian)
Cerda, Enrique A. (*with* Mahadevan, L.) Confined developable elastic surfaces: cylinders, cones and the *Elastica*. (English summary) **2005i:74056**
Chapelle, Dominique Some new results and current challenges in the finite element analysis of shells. (English summary) **2005d:74021**
Chernyshenko, I. S. *see* **Maksimyuk, V. A., 2005m:74063**
Ciarlet, Philippe G. Mathematical modelling of linearly elastic shells. (English summary) **2005d:74020**
Eremeev, V. A. (*with* Pietraszkiewicz, Wojciech) The nonlinear theory of elastic shells and phase transitions. (English summary) **2005a:74063**
Faou, Erwan Multiscale expansions for linear clamped elliptic shells. (English summary) **2005m:74061**
Faugeras, Blaise (*with* Pousin, Jérôme) Variational asymptotic derivation of an elastic model arising from the problem of 3D automatic segmentation of cardiac images. (English summary) **2005h:74042**
Gordeziani, David (*with* Avalishvili, G.) On a dynamical hierarchical model for prismatic shells in the theory of elastic mixtures. (English summary) **2005k:74055**
Kalita, Piotr Koiter shell governed by strongly monotone constitutive equations. (English summary) **2005e:74036**
Lange, Charles G. (*with* Wan, Frederic Y. M.) Bifurcation analysis of shallow spherical shells with meridionally nonuniform loading. (English summary) **2005h:74043**
Lebedev, Leonid P. (*with* Neĭmark, A. B.) An existence theorem for a shallow nonlinear shell with an obstacle. (Russian) **2005m:74062**
Le Dret, Hervé Well-posedness for Koiter and Naghdi shells with a G_{I}-midsurface. (English summary) **2005g:74081**
Li, Fu-shan Asymptotic analysis of linearly viscoelastic shells. (English summary) **2005h:74044**
Mahadevan, L. *see* **Cerda, Enrique A., 2005i:74056**
Maksimyuk, V. A. (*with* Chernyshenko, I. S.) Mixed functionals in the theory of the nonlinearly elastic deformation of shells. (Russian. English and Ukrainian summaries) **2005m:74063**
Mardare, Sorin Inequality of Korn's type on compact surfaces without boundary. (English summary) **2005b:74080**
Meunargiya, T. V. The method of a small parameter for the shallow shells. (English summary) **2005g:74082**
Miehe, Christian (*with* Apel, Nikolas) Anisotropic elastic-plastic analysis of shells at large strains. A comparison of multiplicative and additive approaches to enhanced finite

element design and constitutive modelling. (English summary) **2005f:74053**
Neĭmark, A. B. *see* **Lebedev, Leonid P., 2005m:74062**
Oyesanya, M. O. Influence of extra terms on asymptotic analysis of imperfection sensitivity of toroidal shell segment with random imperfection. (English summary)
Paĭmushin, V. N. (*with* Shalashilin, V. I.) Refined equations of the mean bending of three-layer shells, and shear forms of stability loss. (Russian)
Pietraszkiewicz, Wojciech *see* **Eremeev, V. A., 2005a:74063**
Pousin, Jérôme *see* **Faugeras, Blaise, 2005h:74042**
Ramm, Ekkehard (*with* Wall, Wolfgang A.) Shell structures—a sensitive interrelation between physics and numerics. (English summary)
Roquefort, Anne Une simplification de l'analyse asymptotique formelle des coques non linéairement élastiques. (English summary) [A simplification of the formal asymptotic analysis of nonlinearly elastic shells] **2005e:74037**
Sabodash, P. F. *see* **Bulychev, G. G.**
Sabu, N. Vibrations of thin piezoelectric flexural shells: two-dimensional approximation. (English summary) **2005a:74064**
Sanchez-Palencia, E. On internal and boundary layers with unbounded energy in thin shell theory. Elliptic case. (English summary) **2005i:74057**
Sanjarani Pour, M. A WKB analysis of the buckling condition for a cylindrical shell of arbitrary thickness subjected to an external pressure. (English summary) **2005h:74045**
Sansour, Carlo A time integration scheme with energy-momentum conservation for a shell formulation with arbitrary geometric and material non-linearities. (English summary)
Shalashilin, V. I. *see* **Paĭmushin, V. N.**
Tesar, Alexander Stability response of thin bionics shells. (English summary) **2005f:74054**
Timergaliev, S. N. The Bubnov-Galerkin method for the approximate solution of boundary value problems of the nonlinear theory of thin shells. (Russian. Russian summary) **2005b:74081**
— On the uniqueness of the solution of boundary value problems of the nonlinear theory of thin shells. (Russian) **2005a:74065**
Wall, Wolfgang A. *see* **Ramm, Ekkehard**
Wan, Frederic Y. M. *see* **Lange, Charles G., 2005h:74043**

Items with secondary classifications in 74K25

Andrianov, Igor V. (*with* Awrejcewicz, Jan) Theory of plates and shells: new trends and applications. (English summary)
Anicic, Sylvia (*with* Le Dret, Hervé; Raoult, Annie) The infinitesimal rigid displacement lemma in Lipschitz co-ordinates and application to shells with minimal regularity. (English summary) **2005d:35254**
Awrejcewicz, Jan (*with* Krys'ko, V. A.; Vakakis, Alexander F.) ★ Nonlinear dynamics of continuous elastic systems. **2005b:74056**
— *see also* **Krys'ko, V. A. et al., 2005m:74035** *and* **Andrianov, Igor V.**
Babenkova, E. (*with* Kaplunov, Yu. D.) Low-frequency decay conditions for a semi-infinite elastic strip. (English summary) **2005b:74057**
Bathe, Klaus-Jürgen *see* **Grätsch, Thomas, 2005m:74093**
Bletzinger, Kai-Uwe (*with* Wüchner, Roland; Daoud, Fernaß; Camprubí, Natalia) Computational methods for form finding and optimization of shells and membranes. (English summary)
Boudi, M. *see* **Boutyour, E. H. et al.**
Boutyour, E. H. (*with* Zahrouni, Hamid; Potier-Ferry, Michel; Boudi, M.) Asymptotic-numerical method for buckling analysis of shell structures with large rotations. (English summary)
Camprubí, Natalia *see* **Bletzinger, Kai-Uwe et al.**
Chai, Shu Gen Boundary feedback stabilization of Naghdi's model. (English summary) **2005k:93171**
Chakraborty, H. S. *see* **Goswami, Anish et al.**
Chernyĭ, G. G. *see* **Golubyatnikov, A. N. et al., 2005m:74028**
Ciarlet, Philippe G. (*with* Mardare, Cristinel) On the recovery of a manifold with boundary in $\mathbb{R}^n$. (English and French summaries) **2005b:53025**
— (*with* Mardare, Cristinel) An estimate of the H^1-norm of deformations in terms of the L^1-norm of their Cauchy-Green tensors. (English and French summaries) **2005a:74040**
— (*with* Mardare, Cristinel) Recovery of a manifold with boundary and its continuity as a function of its metric tensor. (English and French summaries) **2005g:53046**
Conti, Sergio (*with* DeSimone, Antonio; Müller, Stefan[1]) Self-similar folding patterns and energy scaling in compressed elastic sheets. (English summary) **2005k:74056**
Daoud, Fernaß *see* **Bletzinger, Kai-Uwe et al.**
DeSimone, Antonio *see* **Conti, Sergio et al., 2005k:74056**
Ding, J. H. *see* **Tzou, H. S.**
Ding, Xiaohong (*with* Yamazaki, Koetsu) Adaptive growth technique of stiffener layout pattern for plate and shell structures to achieve minimum compliance. (English summary) **2005m:74082**
Duong Minh Duc (*with* Nguyen Le Luc; Le Quang Nam; Truong Trung Tuyen) Multiple solutions for a nonlinear singular Dirichlet problem. (English summary) **2005i:35066**
Fedchenko, Yu. S. *see* **Leĭko, S. G., 2005f:53005**
Feijóo, Raúl A. *see* **Taroco, Edgardo, 2005b:74107**
Golubyatnikov, A. N. (*with* Zonenko, S. I.; Chernyĭ, G. G.) On the cumulative effect under large deformations of a shell under the action of unilateral pressure. (Russian) **2005m:74028**
Goswami, Anish (*with* Sengupta, A. K.; Chakraborty, H. S.) Radial vibration of a composite spherical shell. (English summary)
Grätsch, Thomas (*with* Bathe, Klaus-Jürgen) Influence functions and goal-oriented error estimation for finite element analysis of shell structures. (English summary) **2005m:74093**
Hlaváček, Ivan (*with* Lovíšek, Ján) Semi-coercive variational inequalities with uncertain input data. Applications to shallow shells. (English summary) **2005m:49019**
Hou, Jinhua *see* **Lu, Hexiang et al., 2005k:74036**
Kaplunov, Yu. D. *see* **Babenkova, E., 2005b:74057**
Komarov, S. A. *see* **Krys'ko, V. A. et al., 2005m:74035**
Krys'ko, V. A. (*with* Awrejcewicz, Jan; Komarov, S. A.) Nonlinear deformations of spherical panels subjected to transversal load action. (English summary) **2005m:74035**
— *see also* **Awrejcewicz, Jan et al., 2005b:74056**
Le Dret, Hervé *see* **Anicic, Sylvia et al., 2005d:35254**
Leĭko, S. G. (*with* Fedchenko, Yu. S.) Infinitesimal rotational deformations of surfaces and their application to the theory of elastic shells. (Ukrainian. English and Ukrainian summaries) **2005f:53005**
Le Quang Nam *see* **Duong Minh Duc et al., 2005i:35066**
Lewiński, T. Michell structures formed on surfaces of revolution. (English summary) **2005c:74063**
Lopez, Salvatore (*with* Otranto, E.) Evaluation of the fold line by asymptotic extrapolation for structural analysis. (English summary) **2005b:74048**
Lovíšek, Ján *see* **Hlaváček, Ivan, 2005m:49019**
Lu, Hexiang (*with* Hou, Jinhua; Williams, F. W.) Calculation of critical buckling loads for finite length externally constrained thin circular cylinders. (English summary) **2005k:74036**
Mardare, Cristinel *see* **Ciarlet, Philippe G., 2005a:74040; 2005b:53025** *and* **2005g:53046**
Mardare, Sorin The fundamental theorem of surface theory for surfaces with little regularity. (English summary) **2005c:53003**
Mason, D. P. *see* **Roussos, N., 2005c:74034**
Müller, Stefan[1] *see* **Conti, Sergio et al., 2005k:74056**
Nguyen Le Luc *see* **Duong Minh Duc et al., 2005i:35066**
Otranto, E. *see* **Lopez, Salvatore, 2005b:74048**
Potier-Ferry, Michel *see* **Boutyour, E. H. et al.**
Pozrikidis, C. Shell theory for capsules and cells. (English summary) (*see* **2005b:92016**)
— *see also* **Modeling and simulation of capsules and biological cells, 2005b:92016**
Raoult, Annie *see* **Anicic, Sylvia et al., 2005d:35254**
Roussos, N. (*with* Mason, D. P.) Radial oscillations of thin cylindrical and spherical shells: investigation of Lie point symmetries for arbitrary strain-energy functions. (English summary) **2005c:74034**
Sansour, Carlo (*with* Wriggers, Peter; Sansour, Jamal) On the design of energy-momentum integration schemes for arbitrary continuum formulations. Applications to classical and chaotic motion of shells. (English summary) **2005b:74052**
Sansour, Jamal *see* **Sansour, Carlo et al., 2005b:74052**
Sengupta, A. K. *see* **Goswami, Anish et al.**
Szopos, Marcela On the recovery of a curve isometrically immersed in $\mathbb{E}^n$. (English summary) **2005h:53006**
Taroco, Edgardo (*with* Feijóo, Raúl A.) A unified approach for shape sensitivity analysis of elastic shells. (English summary) **2005b:74107**
Truong Trung Tuyen *see* **Duong Minh Duc et al., 2005i:35066**
Tsvelodub, I. Yu. Some geometrically nonlinear problems of the deformation of inelastic plates and shallow shells. (Russian. Russian summary) **2005m:74060**
Tzou, H. S. (*with* Ding, J. H.) Optimal control of precision paraboloidal shell structronic systems. (English summary)
Vakakis, Alexander F. *see* **Awrejcewicz, Jan et al., 2005b:74056**
Williams, F. W. *see* **Lu, Hexiang et al., 2005k:74036**
Wriggers, Peter *see* **Sansour, Carlo et al., 2005b:74052**
Wüchner, Roland *see* **Bletzinger, Kai-Uwe et al.**
Yamazaki, Koetsu *see* **Ding, Xiaohong, 2005m:74082**
Zahrouni, Hamid *see* **Boutyour, E. H. et al.**
Zboiński, G. A posteriori error estimation for hp-approximation of the 3D-based first order shell model. II. Implementation aspects. (English and Georgian summaries) **2005b:74123**
Zonenko, S. I. *see* **Golubyatnikov, A. N. et al., 2005m:74028**

Items listed otherwise than by author

Modeling and simulation of capsules and biological cells ★ Modeling and simulation of capsules and biological cells. **2005b:92016**

74K30 Junctions

Babuška, Ivo (*with* Sauter, Stefan) Algebraic algorithms for the analysis of mechanical trusses. (English summary) **2005a:74066**
Nazarov, Sergei A. Weighted anisotropic Korn's inequality for a junction of a plate and rods. (Russian. Russian summary) **2005j:74040**
Sauter, Stefan *see* **Babuška, Ivo, 2005a:74066**

Items with secondary classifications in 74K30

Åslund, Jan Asymptotic analysis of adhesively bonded nonlinearly elastic plates. (English summary) **2005k:74053**
Griso, Georges Comportement asymptotique d'une grue. (English and French summaries) [Asymptotic behavior of a crane] **2005a:74054**
Kucuk, Ismail (*with* Sadek, Ibrahim) Optimal control of an elastically connected rectangular plate-membrane system. (English summary) **2005k:49113**
Sadek, Ibrahim *see* **Kucuk, Ismail, 2005k:49113**

74K35 Thin films

Begley, Matthew R. (*with* Utz, Marcel; Komaragiri, Uday) Chemo-mechanical interactions between adsorbed molecules and thin elastic films. (English summary)
Conti, Sergio (*with* DeSimone, Antonio; Müller, Stefan[1]) Self-similar folding patterns and energy scaling in compressed elastic sheets. (English summary) **2005k:74056**
DeSimone, Antonio *see* **Conti, Sergio et al., 2005k:74056**
Hong, Wei[2] *see* **Huang, Zhenyu et al.**
Huang, Rui[2] Kinetic wrinkling of an elastic film on a viscoelastic substrate. (English summary)
Huang, Zhenyu (*with* Hong, Wei[2]; Suo, Zhigang) Nonlinear analyses of wrinkles in a film bonded to a compliant substrate. (English summary)
Komaragiri, Uday *see* **Begley, Matthew R. et al.**
Müller, Stefan[1] *see* **Conti, Sergio et al., 2005k:74056**
Santos, Pedro Miguel (*with* Zappale, Elvira) Second-order analysis for thin structures. (English summary) **2005c:74054**
Suo, Zhigang *see* **Huang, Zhenyu et al.**

Utz, Marcel *see* **Begley, Matthew R. et al.**
Zappale, Elvira *see* **Santos, Pedro Miguel, 2005c:74054**

Items with secondary classifications in 74K35

Ansini, Nadia The nonlinear sieve problem and applications to thin films. (English summary) **2005f:35019**
Babadjian, Jean-François (*with* Francfort, Gilles A.) Spatial heterogeneity in 3D-2D dimensional reduction. (English summary) **2005k:49035**
Bělík, Pavel (*with* Luskin, Mitchell) A computational model for martensitic thin films with compositional fluctuation. (English summary) **2005i:74073**
Bhattacharya, Kaushik *see* **Jabbour, Michel E., 2005b:74099**
Borovskikh, A. V. (*with* Lazarev, K. P.) Fourth-order differential equations on geometric graphs. **2005c:34053**
— *see also* **Pokornyĭ, Yu. V., 2005b:34058**
Bouchitté, Guy (*with* Fonseca, Irene; Mascarenhas, M. Luísa) Bending moment in membrane theory. (English summary) **2005c:74051**
Boutat, Mohammed (*with* D'Angelo, Y.; Hilout, S.; Lods, V.) Existence and finite-time blow-up for the solution to a thin-film surface evolution problem. (English summary) **2005b:74055**
Chen, Long-Qing *see* **Yu, Peng et al., 2005m:74078**
D'Angelo, Y. *see* **Boutat, Mohammed et al., 2005b:74055**
Du, Qiang *see* **Yu, Peng et al., 2005m:74078**
Fonseca, Irene *see* **Bouchitté, Guy et al., 2005c:74051**
Francfort, Gilles A. *see* **Babadjian, Jean-François, 2005k:49035**
Freddi, Lorenzo (*with* Paroni, Roberto) The energy density of martensitic thin films via dimension reduction. (English summary) **2005j:74021**
Guo, Bao Zhu (*with* Xie, Yu[1]; Hou, Xue-Zhang) On spectrum of a general Petrovsky type equation and Riesz basis of N-connected beams with linear feedback at joints. (English summary) **2005c:93043**
Hilout, S. *see* **Boutat, Mohammed et al., 2005b:74055**
Hoppe, Ronald H. W. (*with* Nash, Eva) Numerical solution of a nonlinear evolution equation describing amorphous surface growth of thin films. (English summary) (*see* **2005j:65003**)
Hou, Xue-Zhang *see* **Guo, Bao Zhu et al., 2005c:93043**
Hu, Shenyang *see* **Yu, Peng et al., 2005m:74078**
Huang, Jian Guo Numerical solution of the elastic body-plate problem by nonoverlapping domain decomposition type techniques. (English summary) **2005a:65149**
Jabbour, Michel E. (*with* Bhattacharya, Kaushik) A continuum theory of multispecies thin solid film growth by chemical vapor deposition. (English summary) **2005b:74099**
Lazarev, K. P. *see* **Borovskikh, A. V., 2005c:34053**
Le Dret, Hervé (*with* Zorgati, Hamdi) Films courbés minces martensitiques. (English and French summaries) [Martensitic thin curved films] **2005e:74045**
Li, Bo[1] (*with* Liu, Jian-Guo[1]) Epitaxial growth without slope selection: energetics, coarsening, and dynamic scaling. (English summary) **2005k:35202**
Liu, Jian-Guo[1] *see* **Li, Bo[1], 2005k:35202**
Lods, V. *see* **Boutat, Mohammed et al., 2005b:74055**
Luskin, Mitchell *see* **Bělík, Pavel, 2005i:74073**
Mascarenhas, M. Luísa *see* **Bouchitté, Guy et al., 2005c:74051**
Nash, Eva *see* **Hoppe, Ronald H. W., (2005j:65003)**
Paroni, Roberto *see* **Freddi, Lorenzo, 2005j:74021**
Pokornyĭ, Yu. V. (*with* Borovskikh, A. V.) Differential equations on networks (geometric graphs). **2005b:34058**
Xie, Yu[1] *see* **Guo, Bao Zhu et al., 2005c:93043**
Yu, Peng (*with* Hu, Shenyang; Chen, Long-Qing; Du, Qiang) An iterative-perturbation scheme for treating inhomogeneous elasticity in phase-field models. (English summary) **2005m:74078**
Zorgati, Hamdi *see* **Le Dret, Hervé, 2005e:74045**

74K99 None of the above, but in this section

Balthazar, José Manoel (*with* Brasil, R. M. L. R. F.; Weber, Hans Ingo; Fenili, A.; Belato, Débora; Felix, Jorge L. Palacios; Garzelli, F. J.) A review of new vibration issues due to non-ideal energy sources. (English summary) (*see* **2005b:93006**)
Belato, Débora *see* **Balthazar, José Manoel et al., (2005b:93006)**
Bevilacqua, Luiz A geometric approach to the mechanics of densely folded media. (English summary) **2005b:74082**
Brasil, R. M. L. R. F. *see* **Balthazar, José Manoel et al., (2005b:93006)**
Cai, Cheng Wu (*with* Liu, Ji Ke; Chan, Hon Chuen) ★ Exact analysis of bi-periodic structures. **2005k:74057**
Chan, Hon Chuen *see* **Cai, Cheng Wu et al., 2005k:74057**
Donev, Aleksandar Nikola *see* **Torquato, Salvatore, 2005b:74084**
Felix, Jorge L. Palacios *see* **Balthazar, José Manoel et al., (2005b:93006)**
Fenili, A. *see* **Balthazar, José Manoel et al., (2005b:93006)**
Garzelli, F. J. *see* **Balthazar, José Manoel et al., (2005b:93006)**
Haftka, Raphael T. *see* **van Keulen, F. et al.**
van Keulen, F. (*with* Haftka, Raphael T.; Kim, Nam H.) Review of options for structural design sensitivity analysis. I. Linear systems. (English summary)
Kim, Nam H. *see* **van Keulen, F. et al.**
Lazić, Vera B. ★ Mathematical theory of composite and prestressed structures. **2005b:74083**
Liu, Ji Ke *see* **Cai, Cheng Wu et al., 2005k:74057**
Shirokova, E. A. The boundary value problems for thin coats. (English summary) **2005a:74067**
Tawfiq, I. (*with* Vinh, T.) Nonlinear behaviour of structures using the Volterra series—signal processing and testing methods. (English summary) **2005f:74055**
Torquato, Salvatore (*with* Donev, Aleksandar Nikola) Minimal surfaces and multifunctionality. (English summary) **2005b:74084**
Vinh, T. *see* **Tawfiq, I., 2005f:74055**
Weber, Hans Ingo *see* **Balthazar, José Manoel et al., (2005b:93006)**

Items with secondary classifications in 74K99

Balthazar, José Manoel (*with* Felix, Jorge L. Palacios; Brasil, R. M. L. R. F.) Some comments on the numerical simulation of self-synchronization of four non-ideal exciters. (English summary)
Beer, Michael *see* **Möller, Bernd, 2005m:74100**
Bendsøe, M. P. *see* **Kawamoto, Atsushi et al.**
Betsch, Peter A unified approach to the energy-consistent numerical integration of nonholonomic mechanical systems and flexible multibody dynamics. (English summary) **2005f:70001**
Bîlă, Nicoleta Application of symmetry analysis to a PDE arising in the car windshield design. (English summary) **2005h:35355**
Brasil, R. M. L. R. F. *see* **Balthazar, José Manoel et al.**
Cartmell, Matthew P. *see* **Forehand, David I. M. et al.**
Casciaro, Raffaele *see* **Garcea, Giovanni et al., 2005h:74035**
Chagneau, F. *see* **Le Dret, Hervé et al., 2005j:74005**
Challamel, Noël Dynamic analysis of elastoplastic shakedown of structures. (English summary)
Derendyaev, N. V. (*with* Soldatov, I. N.) Stability of the steady motions of a rotor system with fluid in the framework of a discrete model. (Russian. Russian summary)
Elishakoff, Isaac (*with* Ren, Yongjian) ★ Finite element methods for structures with large stochastic variations. **2005d:65001**
Fanghella, P. (*with* Galletti, C.; Torre, G.) An explicit independent-coordinate formulation for the equations of motion of flexible multibody systems. (English summary) **2005m:70043**
Farhat, Charbel (*with* Li, Jing-Rebecca) An iterative domain decomposition method for the solution of a class of indefinite problems in computational structural dynamics. (English summary)
Felix, Jorge L. Palacios *see* **Balthazar, José Manoel et al.**
Forehand, David I. M. (*with* Khanin, Raya; Cartmell, Matthew P.) A Lagrangian multibody code for deriving the symbolic state-space equations of motion for open-loop systems containing flexible beams. (English summary)
Formica, Giovanni *see* **Garcea, Giovanni et al., 2005h:74035**
Galletti, C. *see* **Fanghella, P. et al., 2005m:70043**
Garcea, Giovanni (*with* Formica, Giovanni; Casciaro, Raffaele) A numerical analysis of infinitesimal mechanisms. (English summary) **2005h:74035**
Ghosal, Ashitava *see* **Theodore, Rex J., 2005m:70048**
Hangan, Th. Elastic strips. (English summary) **2005k:74037**
Hou, Xue-Zhang Asymptotical behavior of a flexible robot system with point-wise control. (English summary) **2005e:93104**
Howson, W. P. *see* **Williams, F. W. et al., 2005b:34059**
Ivanov, Ts. P. (*with* Savova, R.) Stability of relative equilibria of an elastic top. (English summary) **2005c:70006**
Jézéquel, L. *see* **Sinou, J.-J. et al., 2005g:70003**
Kaveh, A. (*with* Rahami, H.) An efficient method for decomposition of regular structures using graph products. (English summary)
Kawamoto, Atsushi (*with* Bendsøe, M. P.; Sigmund, O.) Articulated mechanism design with a degree of freedom constraint. (English summary)
Khanin, Raya *see* **Forehand, David I. M. et al.**
Le Dret, Hervé (*with* Lewandowski, Roger; Priour, D.; Chagneau, F.) Numerical simulation of a cod end net. I. Equilibrium in a uniform flow. (English summary) **2005j:74005**
Lewandowski, Roger *see* **Le Dret, Hervé et al., 2005j:74005**
Lewiński, T. Michell structures formed on surfaces of revolution. (English summary) **2005c:74063**
Li, Jing-Rebecca *see* **Farhat, Charbel**
Lin, Yi-Shih *see* **Nikravesh, Parviz E.**
Malashin, A. A. *see* **Zvyagin, A. V.**
Malík, Josef Mathematical modelling of cable stayed bridges: existence, uniqueness, continuous dependence on data, homogenization of cable systems. (English summary) **2005b:74054**
Metcalfe, Paul D. Ribbed elastic structures under a mean flow. (English summary) **2005k:74029**
Möller, Bernd (*with* Beer, Michael) ★ Fuzzy randomness. **2005m:74100**
Nikravesh, Parviz E. (*with* Lin, Yi-Shih) Use of principal axes as the floating reference frame for a moving deformable body. (English summary)
Oliver, X. ★ Topics on failure mechanics. **2005a:74086**
Ong, Jeun Jye (*with* O'Reilly, Oliver M.) On the equations of motion for rigid bodies with surface growth. (English summary) **2005f:70012**
O'Reilly, Oliver M. *see* **Ong, Jeun Jye, 2005f:70012**
Papadimitriou, Costas Optimal sensor placement methodology for parametric identification of structural systems. (English summary)
Pham Duc Chinh Shakedown static and kinematic theorems for elastic-plastic limited linear kinematic-hardening solids. (English summary) **2005i:74014**
Pradlwarter, H. J. Deterministic integration algorithms for stochastic response computations of FE-systems. (English summary)
Priour, D. *see* **Le Dret, Hervé et al., 2005j:74005**
Qiu, Zhi Ping[1] (*with* Wang, Xiaojun[2]) Solution theorems for the standard eigenvalue problem of structures with uncertain-but-bounded parameters. (English summary) **2005m:70073**
Quadrelli, Marco B. Dynamics and control of novel orbiting formations with internal dynamics. (English summary) **2005e:70039**
— Effect of distributed rod and string flexibility on formation dynamic stability. (English summary) **2005c:70031**
Rahami, H. *see* **Kaveh, A.**
Ren, Yongjian *see* **Elishakoff, Isaac, 2005d:65001**
Savova, R. *see* **Ivanov, Ts. P., 2005c:70006**
Sigmund, O. *see* **Kawamoto, Atsushi et al.**
Sinou, J.-J. (*with* Thouverez, F.; Jézéquel, L.) Methods to reduce non-linear mechanical systems for instability computation. (English summary) **2005g:70003**
Soldatov, I. N. *see* **Derendyaev, N. V.**

Suleman, A. Multibody dynamics and nonlinear control of flexible space structures. (English summary)
Theodore, Rex J. (*with* Ghosal, Ashitava) Robust control of multilink flexible manipulators. (English summary) **2005m:70048**
Thouverez, F. *see* **Sinou, J.-J. et al., 2005g:70003**
Torre, G. *see* **Fanghella, P. et al., 2005m:70043**
Wang, Xiaojun[2] *see* **Qiu, Zhi Ping[1], 2005m:70073**
Watson, Andrew *see* **Williams, F. W. et al., 2005b:34059**
Williams, F. W. (*with* Howson, W. P.; Watson, Andrew) Application of the Wittrick-Williams algorithm to the Sturm-Liouville problem on homogeneous trees: a structural mechanics analogy. (English summary) **2005b:34059**
Zvyagin, A. V. (*with* Malashin, A. A.) Formulation and solution of the problem of the dynamics of a bow. (Russian)

74Lxx Special subfields of solid mechanics

Items with secondary classifications in 74Lxx

Borja, Ronaldo I. *see* **Li, Chao et al., 2005b:74040**
Li, Chao (*with* Borja, Ronaldo I.; Regueiro, Richard A.) Dynamics of porous media at finite strain. (English summary) **2005b:74040**
Regueiro, Richard A. *see* **Li, Chao et al., 2005b:74040**

74L05 Geophysical solid mechanics [see also 86–XX]

Abeyratne, M. K. (*with* Freeden, W.; Mayer, Carsten) Multiscale deformation analysis by Cauchy-Navier wavelets. **2005d:74022**
Badea, Lori (*with* Ionescu, Ioan R.; Wolf, Sylvie) Domain decomposition method for dynamic faulting under slip-dependent friction. (English summary) **2005f:74056**
Balmforth, Neil J. *see* **Yizhaq, Hezi et al., 2005e:74038**
Bobrik, R. V. (*with* Chrzeszczyk, A.; Stettner, Lukasz) A closure procedure for random vibration parametric resonances. (English summary)
Chen, Jian[2] (*with* Yin, Jian-Hua; Lee, Chack Fan) The use of an SQP algorithm in slope stability analysis. (English summary)
Chrzeszczyk, A. *see* **Bobrik, R. V. et al.**
Faraklioti, Maria (*with* Petrou, Maria) The use of structure tensors in the analysis of seismic data. (English summary) (*see* **2005i:76002**)
Fernandez Merodo, José Antonio (*with* Pastor, Manuel) Finite element modelling of landslides. (*see* **2005b:74003**)
— *see also* **Pastor, Manuel et al., (2005b:74003)**
Freeden, W. *see* **Abeyratne, M. K. et al., 2005d:74022**
González, Elena *see* **Pastor, Manuel et al., (2005b:74003)**
Herreros, Maria Isabel *see* **Pastor, Manuel et al., (2005b:74003)**
Ionescu, Ioan R. (*with* Wolf, Sylvie) Interaction of faults under slip-dependent friction. Non-linear eigenvalue analysis. (English summary) **2005h:74046**
— *see also* **Badea, Lori et al., 2005f:74056**
Lee, Chack Fan *see* **Chen, Jian[2] et al.**
Mayer, Carsten *see* **Abeyratne, M. K. et al., 2005d:74022**
Mira, Pablo *see* **Pastor, Manuel et al., (2005b:74003)**
Mora, Peter (*with* Weatherley, Dion) A 2D numerical model for simulating the physics of fault systems. (English summary) (*see* **2005g:00014**)
Pastor, Manuel (*with* Fernandez Merodo, José Antonio; Herreros, Maria Isabel; González, Elena; Mira, Pablo; Quecedo, Manuel) Modelling of debris flows and flow slides. (*see* **2005b:74003**)
— *see also* **Fernandez Merodo, José Antonio, (2005b:74003)**
Pavlov, V. P. A field-theoretic approach to the dynamics of a continuous medium: peturbation theory. (Russian. Russian summary) **2005i:74058**
Petrou, Maria *see* **Faraklioti, Maria, (2005i:76002)**
Provenzale, Antonello *see* **Yizhaq, Hezi et al., 2005e:74038**
Quecedo, Manuel *see* **Pastor, Manuel et al., (2005b:74003)**
Stettner, Lukasz *see* **Bobrik, R. V. et al.**
Weatherley, Dion *see* **Mora, Peter, (2005g:00014)**
Wolf, Sylvie *see* **Badea, Lori et al., 2005f:74056** *and* **Ionescu, Ioan R., 2005h:74046**
Yin, Jian-Hua *see* **Chen, Jian[2] et al.**
Yizhaq, Hezi (*with* Balmforth, Neil J.; Provenzale, Antonello) Blown by wind: nonlinear dynamics of aeolian sand ripples. (English summary) **2005e:74038**

Items with secondary classifications in 74L05

Agalovyan, L. A. (*with* Asratyan, M. G.; Gevorkyan, R. S.) On a nonclassical mixed boundary value problem in the theory of elasticity for an anisotropic strip of variable width. (Russian. Russian and Armenian summaries) **2005m:74033**
Asratyan, M. G. *see* **Agalovyan, L. A. et al., 2005m:74033**
Barber, James R. Stresses in a half space due to Newtonian gravitation. (English summary)
Bigoni, Davide *see* **Gajo, A. et al., 2005f:74021**
Brevdo, Leonid (*with* Il'ichev, A. T.) Absolute instability of a thin visco-elastic plate in an air flow. (English summary) **2005f:74028**
Cliffe, K. A. (*with* Morland, L. W.) Full and reduced model solutions of unsteady axi-symmetric ice sheet flow over a flat bed. (English summary) **2005g:86025**
Dascalu, Cristian (*with* Ionescu, Ioan R.) Slip-weakening friction instabilities: eigenvalue analysis. (English summary) **2005i:35201**
Ericksen, J. L. On the theory of rotation twins in crystal multilattices. (English summary) **2005e:74007**
Eymard, Robert (*with* Gallouët, Thierry; Granjeon, D.; Masson, Roland; Tran, Quang Huy) Multi-lithology stratigraphic model under maximum erosion rate constraint. (English summary) **2005a:86029**
Farmer, Christopher Geological modelling and reservoir simulation. (English summary) **2005j:86021**
Feltham, Daniel L. *see* **Wilchinsky, Alexander V., 2005b:86020** *and* **2005g:86011**
Gajo, A. (*with* Bigoni, Davide; Muir Wood, D.) Multiple shear band development and related instabilities in granular materials. (English summary) **2005f:74021**
Gallouët, Thierry *see* **Eymard, Robert et al., 2005a:86029**
Gervais, Véronique (*with* Masson, Roland) Mathematical and numerical analysis of a stratigraphic model. (English summary) **2005g:86027**
Gevorkyan, R. S. *see* **Agalovyan, L. A. et al., 2005m:74033**
Granjeon, D. *see* **Eymard, Robert et al., 2005a:86029**
Hutter, Kolumban (*with* Jöhnk, Klaus) ★ Continuum methods of physical modeling. **2005h:74001**
— *see also* **Wang, Yongqi et al., 2005b:74032**
Il'ichev, A. T. *see* **Brevdo, Leonid, 2005f:74028**
Ionescu, Ioan R. *see* **Dascalu, Cristian, 2005i:35201**
(Iske, Armin) *see* **Mathematical methods and modelling in hydrocarbon exploration and production, 2005i:76002**
Jöhnk, Klaus *see* **Hutter, Kolumban, 2005h:74001**
Kerswell, R. R. Dam break with Coulomb friction: a model for granular slumping? (English summary) **2005m:76182**
Krauklis, A. P. *see* **Krauklis, Pavel Vladimirovich, 2005g:74068**
Krauklis, Pavel Vladimirovich (*with* Krauklis, A. P.) The weak boundary effect in a field as a source approaches the boundary. (Russian. English and Russian summaries) **2005g:74068**
Latham, J.-P. (*with* Munjiza, A.) The modelling of particle systems with real shapes. (English summary) **2005c:86007**
Masson, Roland *see* **Eymard, Robert et al., 2005a:86029** *and* **Gervais, Véronique, 2005g:86027**
Morland, L. W. *see* **Cliffe, K. A., 2005g:86025**
Muir Wood, D. *see* **Gajo, A. et al., 2005f:74021**
Munjiza, A. *see* **Latham, J.-P., 2005c:86007**
(Pastor, Manuel) *see* **Numerical modelling in geomechanics, 2005b:74003**
Pudasaini, S. P. *see* **Wang, Yongqi et al., 2005b:74032**
Randen, Trygve *see* **Mathematical methods and modelling in hydrocarbon exploration and production, 2005i:76002** *and* **Richardsen, Stine Kjersti, (2005i:76002)**
Richardsen, Stine Kjersti (*with* Randen, Trygve) Mapping 3D geo-bodies based on level set and marching methods. (English summary) (*see* **2005i:76002**)
Schoof, Christian The effect of cavitation on glacier sliding. (English summary) **2005i:86019**
(Tamagnini, Claudio) *see* **Numerical modelling in geomechanics, 2005b:74003**
Tran, Quang Huy *see* **Eymard, Robert et al., 2005a:86029**
Wang, Yongqi (*with* Hutter, Kolumban; Pudasaini, S. P.) The Savage-Hutter theory: a system of partial differential equations for avalanche flows of snow, debris, and mu (English summary) **2005b:74032**
Wilchinsky, Alexander V. (*with* Feltham, Daniel L.) Stability of an ice sheet on an elastic bed. (English summary) **2005b:86020**
— (*with* Feltham, Daniel L.) A continuum anisotropic model of sea-ice dynamics. (English summary) **2005g:86011**

Items listed otherwise than by author

Mathematical methods and modelling in hydrocarbon exploration and production ★ Mathematical methods and modelling in hydrocarbon exploration and production. **2005i:76002**
Numerical modelling in geomechanics ★ Numerical modelling in geomechanics. **2005b:74003**

74L10 Soil and rock mechanics

Chambaudet, A. *see* **Radid, A. et al., 2005a:74068**
Chiriţă, Stan On the spatial decay of solutions in the theory of swelling porous thermoelastic soils. (English summary) **2005h:74047**
Galeş, C. Potential method in the linear theory of swelling porous elastic soils (English summary) **2005h:74048**
Germanovich, L. N. *see* **Puzrin, A. M.**
Grivet, M. *see* **Radid, A. et al., 2005a:74068**
Mabssout, Mokhtar *see* **Pastor, Manuel, (2005b:74003)**
Miellou, Jean-Claude *see* **Radid, A. et al., 2005a:74068**
Pastor, Manuel (*with* Mabssout, Mokhtar) Alternative formulations in soil dynamics. (*see* **2005b:74003**)
Puzrin, A. M. (*with* Germanovich, L. N.) The growth of shear bands in the catastrophic failure of soils. (English summary)
Radid, A. (*with* Miellou, Jean-Claude; Chambaudet, A.; Grivet, M.) About a rock thermochronologycal model: Laslett's law study and time equivalent method. (English summary) [About a rock thermochronological model: Laslett's law study and time equivalent method] **2005a:74068**
Tamagnini, Claudio (*with* Viggiani, Gioacchino) Constitutive modelling for rate-independent soils: a review. (*see* **2005b:74003**)
Viggiani, Gioacchino *see* **Tamagnini, Claudio, (2005b:74003)**

Items with secondary classifications in 74L10

Chambon, René (*with* Moullet, Jean-Christophe) Uniqueness studies in boundary value problems involving some second gradient models. (English summary) **2005a:74062**
Chiroux, Robert C. (*with* Foster, Winfred A., Jr.; Johnson, Clarence E.; Shoop, S. A.; Raper, R. L.) Three-dimensional finite element analysis of soil interaction with a rigid wheel.
— *see also* **Foster, Winfred A., Jr. et al.**
Foster, Winfred A., Jr. (*with* Johnson, Clarence E.; Chiroux, Robert C.; Way, Tom R.) Finite element simulation of cone penetration. (English summary)
— *see also* **Chiroux, Robert C. et al.**
Johnson, Clarence E. *see* **Chiroux, Robert C. et al.** *and* **Foster, Winfred A., Jr. et al.**
Kharab, A. (*with* Kharab, R.) Numerical investigation of the penetration of a rigid body into the soil. (English summary) **2005a:74073**
Kharab, R. *see* **Kharab, A., 2005a:74073**
Moullet, Jean-Christophe *see* **Chambon, René, 2005a:74022**
(Pastor, Manuel) *see* **Numerical modelling in geomechanics, 2005b:74003**

Raper, R. L. *see* **Chiroux, Robert C. et al.**
Shoop, S. A. *see* **Chiroux, Robert C. et al.**
(Tamagnini, Claudio) *see* **Numerical modelling in geomechanics, 2005b:74003**
Way, Tom R. *see* **Foster, Winfred A., Jr. et al.**
Wilmański, Krzysztof Tortuosity and objective relative accelerations in the theory of porous materials. (English summary) **2005m:74031**

Items listed otherwise than by author

Numerical modelling in geomechanics ★ Numerical modelling in geomechanics. **2005b:74003**

74L15 Biomechanical solid mechanics [see also 92C10]

Arruda, Ellen M. *see* **Garikipati, Krishna et al., 2005a:74069** *and* **Kuhl, Ellen et al.**
Banks, H. T. (*with* Pinter, Gabriella A.) A probabilistic multiscale approach to hysteresis in shear wave propagation in biotissue. (English summary) **2005k:74058**
Blom, J. G. (*with* Peletier, Mark A.) A continuum model of lipid bilayers. (English summary) **2005j:74041**
Calve, S. *see* **Garikipati, Krishna et al., 2005a:74069**
Du, Qiang (*with* Liu, Chun; Wang, Xiaoqiang) A phase field approach in the numerical study of the elastic bending energy for vesicle membranes. (English summary) **2005b:74085**
Epstein, Marcelo *see* **Rouhi, Gholamreza et al.**
Firoozbakhsh, Keikhosrow *see* **Rouhi, Gholamreza et al.**
Fowler, Patrick W. *see* **Kovács, F. et al., 2005f:74057**
Garikipati, Krishna (*with* Arruda, Ellen M.; Grosh, Karl; Narayanan, Harish; Calve, S.) A continuum treatment of growth in biological tissue: the coupling of mass transport and mechanics. (English summary) **2005a:74069**
— *see also* **Kuhl, Ellen et al.**
Grosh, Karl *see* **Garikipati, Krishna et al., 2005a:74069** *and* **Kuhl, Ellen et al.**
Guest, S. D. *see* **Kovács, F. et al., 2005f:74057**
Haslach, Henry W. (*with* Humphrey, Jay D.) Dynamics of biological soft tissue and rubber: internally pressurized spherical membranes surrounded by a fluid. (English summary) **2005e:74039**
Herzog, Walter *see* **Rouhi, Gholamreza et al.**
Hoffman, Kathleen A. Methods for determining stability in continuum elastic-rod models of DNA. (English summary) **2005c:74055**
Hoger, A. (*with* Van Dyke, T. J.; Lubarda, V. A.) Symmetrization of the growth deformation and velocity gradients in residually stressed biomaterials. (English summary)
Humphrey, Jay D. *see* **Haslach, Henry W., 2005e:74039**
Klarbring, Anders (*with* Olsson, Tobias) On compatible strain with reference to biomechanics of soft tissues. (English summary) **2005m:74064**
Kovács, F. (*with* Tarnai, T.; Guest, S. D.; Fowler, Patrick W.) Double-link expandohedra: a mechanical model for expansion of a virus. (English summary) **2005f:74057**
Kuhl, Ellen (*with* Garikipati, Krishna; Arruda, Ellen M.; Grosh, Karl) Remodeling of biological tissue: mechanically induced reorientation of a transversely isotropic chain network. (English summary)
Liu, Chun *see* **Du, Qiang et al., 2005b:74085**
Lubarda, V. A. *see* **Hoger, A. et al.**
Narayanan, Harish *see* **Garikipati, Krishna et al., 2005a:74069**
Olsson, Tobias *see* **Klarbring, Anders, 2005m:74064**
Ou-Yang, Z. C. *see* **Tu, Z. C., 2005g:74083**
Peletier, Mark A. *see* **Blom, J. G., 2005j:74041**
Pinter, Gabriella A. *see* **Banks, H. T., 2005k:74058**
Rouhi, Gholamreza (*with* Herzog, Walter; Sudak, L. J.; Firoozbakhsh, Keikhosrow; Epstein, Marcelo) Free surface density instead of volume fraction in the bone remodeling equation: theoretical considerations. (English summary)
Sudak, L. J. *see* **Rouhi, Gholamreza et al.**
Tarnai, T. *see* **Kovács, F. et al., 2005f:74057**
Tu, Z. C. (*with* Ou-Yang, Z. C.) A geometric theory on the elasticity of bio-membranes. (English summary) **2005g:74083**
Van Dyke, T. J. *see* **Hoger, A. et al.**
Wang, Xiaoqiang *see* **Du, Qiang et al., 2005b:74085**
Xu, Yongzhi S. Transmitted wave in a poroelastic medium and its application in evaluation of osteoporosis. (English summary) (*see* **2005i:00016**)

Items with secondary classifications in 74L15

Accoto, Dino (*with* Castrataro, Piero; Dario, Paolo) Biomechanical analysis of Oligochaeta crawling. (English summary)
Ait-Haddou, R. (*with* Jinha, A.; Herzog, Walter; Binding, Paul A.) Analysis of the force-sharing problem using an optimization model. (English summary)
Ambrosi, D. (*with* Guana, F.) Mechanical aspects of growth in soft tissues. (English and Italian summaries) **2005g:92003**
Araujo, R. P. (*with* McElwain, D. L. S.) A linear-elastic model of anisotropic tumour growth. (English summary) **2005d:92008**
Atkinson, Colin *see* **Eftaxiopoulos, Dimitrios A.**
Ayache, Nicholas *see* **Delingette, Hervé, (2005e:92001)**
Azar, Fred S. (*with* Metaxas, Dimitris N.; Schnall, Mitchell D.) Methods for modeling and predicting mechanical deformations of the breast under external perturbations. (*see* **2005e:92001**)
Baaijens, Frank P. T. *see* **van de Vosse, F. N. et al., 2005b:76147**
Bakırtaş, İlkay (*with* Demiray, Hilmi) Weakly non-linear waves in a tapered elastic tube filled with an inviscid fluid. (English summary) **2005k:74028**
Balaeff, Alexander (*with* Koudella, Christophe R.; Mahadevan, L.; Schulten, Klaus) Modelling DNA loops using continuum and statistical mechanics. (English summary) **2005c:92019**
Balzani, D. *see* **Schröder, Jörg[2] et al., 2005k:74013**
Barbone, Paul E. (*with* Gokhale, Nachiket H.) Elastic modulus imaging: on the uniqueness and nonuniqueness of the elastography inverse problem in two dimensions. (English summary) **2005b:74051**
Barthès-Biesel, D. Flow-induced capsule deformation. (English summary) (*see* **2005b:92016**)
Bauer, Daniela (*with* Grebe, R.; Ehrlacher, A.) A three-layer continuous model of porous media to describe the first phase of skin irritation. (English summary)
Bauer, S. M. (*with* Lyubimov, G. A.; Tovstik, P. E.) Mathematical modeling of Maklakoff's method for measuring the intraocular pressure. (Russian. Russian summary)
Bauer, William R. *see* **White, J. H., 2005b:92029**
Beaugonin, Muriel *see* **Haug, Eberhard et al., (2005e:92001)**
Bessems, D. *see* **van de Vosse, F. N. et al., 2005b:76147**
Binding, Paul A. *see* **Ait-Haddou, R. et al.**
Blickhan, Reinhard *see* **Günther, Michael et al., 2005c:92003** *and* **Geyer, Hartmut et al.**
Blyth, M. G. (*with* Pozrikidis, C.) Solution space of axisymmetric capsules enclosed by elastic membranes. (English summary) **2005c:74019**
Borhan, A. (*with* Gupta, Nivedita Ranbir) Capsule motion and deformation in tube and channel flow. (English summary) (*see* **2005b:92016**)
Cai, Hongxue *see* **Chadwick, Richard S. et al., 2005a:74014**
Castrataro, Piero *see* **Accoto, Dino et al.**
Chadwick, Richard S. (*with* Shoelson, Brett; Cai, Hongxue) Surface Green's functions for an incompressible, transversely isotropic elastic half-space. (English summary) **2005a:74014**
Chakravarty, Santabrata (*with* Sarifuddin; Mandal, Prasanta Kumar) Unsteady flow of a two-layer blood stream past a tapered flexible artery under stenotic conditions. (English summary) **2005i:76133**
Chechkin, G. A. (*with* Chechkina, T. P.) On the homogenization of problems of "Infusoria" type. (Russian. Russian summary) **2005d:35016**
Chechkina, T. P. *see* **Chechkin, G. A., 2005d:35016**
Chemla, Denis *see* **Katsnelson, Leonid B. et al.**
Chen, Guowang (*with* Zhang, Hong Wei[2]) Initial boundary value problem for a system of generalized IMBq equations. (English summary) **2005b:35031**
Choi, Hyung-Yun *see* **Haug, Eberhard et al., (2005e:92001)**
Coirault, Catherine *see* **Katsnelson, Leonid B. et al.**
Coleman, Bernard D. (*with* Swigon, David) Theory of self-contact in Kirchhoff rods with applications to supercoiling of knotted and unknotted DNA plasmids. (English summary) **2005d:74016**
— *see also* **Olson, Wilma K. et al., 2005b:92027**
Cortez, Ricardo (*with* Peskin, Charles S.; Stockie, John M.; Varela, Douglas) Parametric resonance in immersed elastic boundaries. (English summary) **2005i:74026**
Daněk, Josef *see* **Nedoma, Jiřiet al., (2005g:65008)**
Dario, Paolo *see* **Accoto, Dino et al.**
Delingette, Hervé (*with* Ayache, Nicholas) Soft tissue modeling for surgery simulation. (*see* **2005e:92001**)
Demiray, Hilmi Modulation of nonlinear waves in a fluid-filled elastic tube with stenosis. (English summary) **2005g:74042**
— On some nonlinear waves in fluid-filled viscoelastic tubes: weakly dispersive case. (English summary) **2005g:74043**
— *see also* **Bakırtaş, İlkay, 2005k:74028**
Denk, Frantisek *see* **Nedoma, Jiřiet al., (2005g:65008)**
Destrade, Michel (*with* Scott, N. H.) Surface waves in a deformed isotropic hyperelastic material subject to an isotropic internal constraint. (English summary) **2005b:74064**
(Deutsch, Andreas) *see* **Function and regulation of cellular systems, 2005b:92001**
Duncan, James S. *see* **Papademetris, Xenophon et al., (2005e:92001)**
Eftaxiopoulos, Dimitrios A. (*with* Atkinson, Colin) A nonlinear, anisotropic and axisymmetric model for balloon angioplasty. (English summary)
Ehrlacher, A. *see* **Bauer, Daniela et al.**
(Falcke, Martin) *see* **Function and regulation of cellular systems, 2005b:92001**
Faugeras, Blaise (*with* Pousin, Jérôme) Variational asymptotic derivation of an elastic model arising from the problem of 3D automatic segmentation of cardiac images. (English summary) **2005h:74042**
Figueiredo, Isabel (*with* Trabucho, Luis) Asymptotic model of a nonlinear adaptive elastic rod. (English summary) **2005g:74076**
Geyer, Hartmut (*with* Seyfarth, André; Blickhan, Reinhard) Spring-mass running: simple approximate solution and application to gait stability. (English summary)
Gokhale, Nachiket H. *see* **Barbone, Paul E., 2005b:74051**
Grebe, R. *see* **Bauer, Daniela et al.**
Guana, F. *see* **Ambrosi, D., 2005g:92003**
Günther, Michael (*with* Keppler, Valentin; Seyfarth, André; Blickhan, Reinhard) Human leg design: optimal axial alignment under constraints. (English summary) **2005c:92003**
Gunther, T. W. M. *see* **van de Vosse, F. N. et al., 2005b:76147**
Gupta, Nivedita Ranbir *see* **Borhan, A., (2005b:92016)**
de Hart, J. *see* **van de Vosse, F. N. et al., 2005b:76147**
Haug, Eberhard (*with* Choi, Hyung-Yun; Robin, Stéphane; Beaugonin, Muriel) Human models for crash and impact simulation. (*see* **2005e:92001**)
van der Heijden, G. H. M. A robust variational formulation for a rod subject to inequality constraints. (English summary) (*see* **2005g:74002**)
Herzog, Walter *see* **Ait-Haddou, R. et al.**
Hlaváček, Ivan *see* **Nedoma, Jiřiet al., (2005g:65008)**
(Howard, Jonathon) *see* **Function and regulation of cellular systems, 2005b:92001**
Hutchings, Nathan R. *see* **Ludu, Andrei, (2005m:00011)**
Imomnazarov, Kh. Kh. On a thermodynamically consistent electromechanical model of cartilage. (Russian)
Jain, Madhu *see* **Sharma, G. C. et al.**
Ji, Lin[3] (*with* McLaughlin, Joyce R.) Recovery of the Lamé parameter μ in biological tissues. (English summary) **2005b:74069**
Jinha, A. *see* **Ait-Haddou, R. et al.**
Katsnelson, Leonid B. (*with* Nikitina, Larissa V.; Chemla, Denis; Solov'eva, O. È.; Coirault, Catherine; Lecarpentier, Yves; Markhasin, Vladimir S.) Influence of viscosity on myocardium mechanical activity: a mathematical model. (English summary)
Kaźmierczak, Bogdan *see* **Piechór, Kazimierz, (2005d:92001)**
Keppler, Valentin *see* **Günther, Michael et al., 2005c:92003**

Koudella, Christophe R. *see* **Balaeff, Alexander et al., 2005c:92019**
Kumar, A. *see* **Sharma, G. C. et al.**
Lavrenteva, O. M. *see* **Nir, A., (2005b:92016)**
Lecarpentier, Yves *see* **Katsnelson, Leonid B. et al.**
Lin, Chun-Chi (*with* Schwetlick, Hartmut R.) On the geometric flow of Kirchhoff elastic rods. (English summary) **2005k:74050**
Ludu, Andrei (*with* Hutchings, Nathan R.) Nonlinear modeling of 3-d flagellar dynamics. (English summary) (*see* **2005m:00011**)
Lyubimov, G. A. *see* **Bauer, S. M. et al.**
MacArthur, Ben D. (*with* Please, Colin P.) Residual stress generation and necrosis formation in multi-cell tumour spheroids. (English summary) **2005g:92018**
Maganaris, Constantinos N. A predictive model of moment-angle characteristics in human skeletal muscle: application and validation in muscles across the ankle joint. (English summary)
Mahadevan, L. *see* **Skotheim, Jan M., 2005b:74075** *and* **Balaeff, Alexander et al., 2005c:92019**
Mandal, Prasanta Kumar *see* **Chakravarty, Santabrata et al., 2005i:76133**
Markhasin, Vladimir S. *see* **Katsnelson, Leonid B. et al.**
McElwain, D. L. S. *see* **Araujo, R. P., 2005d:92008**
McLaughlin, Joyce R. (*with* Yoon, Jeong-Rock) Unique identifiability of elastic parameters from time-dependent interior displacement measurement. (English summary) **2005b:74070**
— *see also* **Ji, Lin[3], 2005b:74069**
Metaxas, Dimitris N. *see* **Azar, Fred S. et al., (2005e:92001)**
Mishra, Manoranjan (*with* Rao, Adabala Ramachandra) Peristaltic transport of a Newtonian fluid in an asymmetric channel. (English summary) **2005a:76181**
Nardinocchi, Paola (*with* Pontrelli, Giuseppe; Teresi, Luciano) A one-dimensional model for blood flow in prestressed vessels. (English summary) **2005i:76134**
Nedoma, Jiří (*with* Hlaváček, Ivan; Daněk, Josef; Vavřík, P.; Stehlík, J.; Denk, Frantisek) Some recent results on a domain decomposition method in biomechanics of human joints. (English summary) (*see* **2005g:65008**)
Neff, Patrizio *see* **Schröder, Jörg[2] et al., 2005k:74013**
Nelson, Philip C. *see* **Wiggins, Paul A. et al., 2005m:82168**
Nikitina, Larissa V. *see* **Katsnelson, Leonid B. et al.**
Nir, A. (*with* Lavrenteva, O. M.) Capsule dynamics and interfacial transport. (English summary) (*see* **2005b:92016**)
van Oijen, C. H. G. A. *see* **van de Vosse, F. N. et al., 2005b:76147**
Olson, Wilma K. (*with* Swigon, David; Coleman, Bernard D.) Implications of the dependence of the elastic properties of DNA on nucleotide sequence. (English summary) **2005b:92027**
Ottesen, Johnny T. Symmetric compressions of a fluid filled torus of asymmetric elasticity generates mean flow of frequency dependent size and orientation. (English summary) (*see* **2005d:92001**)
Panfilov, A. V. *see* **Ten Tusscher, K. H. W. J., 2005i:35153**
Papademetris, Xenophon (*with* Škrinjar, Oskar; Duncan, James S.) Recovering displacements and deformations from 3D medical images using biomechanical models. (*see* **2005e:92001**)
Peskin, Charles S. *see* **Cortez, Ricardo et al., 2005i:74026**
Phillips, Rob *see* **Wiggins, Paul A. et al., 2005m:82168**
Piechór, Kazimierz (*with* Kaźmierczak, Bogdan) Heteroclinic solutions for a model of skin morphogenesis. (English summary) (*see* **2005d:92001**)
Please, Colin P. *see* **MacArthur, Ben D., 2005g:92018**
Pontrelli, Giuseppe *see* **Nardinocchi, Paola et al., 2005i:76134**
Pousin, Jérôme *see* **Faugeras, Blaise, 2005h:74042**
Pozrikidis, C. Shell theory for capsules and cells. (English summary) (*see* **2005b:92016**)
— *see also* **Modeling and simulation of capsules and biological cells, 2005b:92016** *and* **Blyth, M. G., 2005c:74019**
Rao, Adabala Ramachandra *see* **Mishra, Manoranjan, 2005a:76181**
Robin, Stéphane *see* **Haug, Eberhard et al., (2005e:92001)**
Sarifuddin *see* **Chakravarty, Santabrata et al., 2005i:76133**
Schnall, Mitchell D. *see* **Azar, Fred S. et al., (2005e:92001)**
Schröder, Jörg[2] (*with* Neff, Patrizio; Balzani, D.) A variational approach for materially stable anisotropic hyperelasticity. (English summary) **2005k:74013**
Schulten, Klaus *see* **Balaeff, Alexander et al., 2005c:92019**
Schwetlick, Hartmut R. *see* **Lin, Chun-Chi, 2005k:74050**
Scott, N. H. *see* **Destrade, Michel, 2005b:74064**
Secomb, T. W. Mechanics of red blood cells and blood flow in narrow tubes. (English summary) (*see* **2005b:92016**)
Segal, August *see* **van de Vosse, F. N. et al., 2005b:76147**
Seyfarth, André *see* **Günther, Michael et al., 2005c:92003** *and* **Geyer, Hartmut et al.**
Sharma, G. C. (*with* Jain, Madhu; Kumar, A.) Performance modeling and analysis of blood flow in elastic arteries. (English summary)
Shen, Wensheng (*with* Zhang, Jun[2]; Yang, Fuqian) Modeling and numerical simulation of bioheat transfer and biomechanics in soft tissue. (English summary)
Shoelson, Brett *see* **Chadwick, Richard S. et al., 2005a:74014**
Skotheim, Jan M. (*with* Mahadevan, L.) Dynamics of poroelastic filaments. (English summary) **2005b:74075**
Škrinjar, Oskar *see* **Papademetris, Xenophon et al., (2005e:92001)**
Solov'eva, O. È. *see* **Katsnelson, Leonid B. et al.**
Starostin, E. L. Symmetric equilibria of a thin elastic rod with self-contacts. (English summary) **2005d:74017**
Stehlík, J. *see* **Nedoma, Jiřiet al., (2005g:65008)**
Stijnen, J. M. A. *see* **van de Vosse, F. N. et al., 2005b:76147**
Stockie, John M. *see* **Cortez, Ricardo et al., 2005i:74026**
Swigon, David *see* **Olson, Wilma K. et al., 2005b:92027** *and* **Coleman, Bernard D., 2005d:74016**
Ten Tusscher, K. H. W. J. (*with* Panfilov, A. V.) Wave propagation in excitable media with randomly distributed obstacles. (English summary) **2005i:35153**
Teresi, Luciano *see* **Nardinocchi, Paola et al., 2005i:76134**
Thaller, S. (*with* Wagner, Hans) The relation between Hill's equation and individual muscle properties. (English summary)
Tobias, Irwin Thermal fluctuations of small rings of intrinsically helical DNA treated like an elastic rod. (English summary) **2005b:92028**
Tovstik, P. E. *see* **Bauer, S. M. et al.**
Trabucho, Luis *see* **Figueiredo, Isabel, 2005g:74076**
Travers, A. A. The structural basis of DNA flexibility. (English summary) **2005b:92018**
Varela, Douglas *see* **Cortez, Ricardo et al., 2005i:74026**
Vavřík, P. *see* **Nedoma, Jiřiet al., (2005g:65008)**
van de Vosse, F. N. (*with* de Hart, J.; van Oijen, C. H. G. A.; Bessems, D.; Gunther, T. W. M.; Segal, August; Wolters, B. J. B. M.; Stijnen, J. M. A.; Baaijens, Frank P. T.) Finite-element-based computational methods for cardiovascular fluid-structure interaction. (English summary) **2005b:76147**
Wagner, Hans *see* **Thaller, S.**
White, J. H. (*with* Bauer, William R.) Finite-element analysis of the displacement of closed DNA loops under torsional stress. (English summary) **2005b:92029**
Wiggins, Paul A. (*with* Phillips, Rob; Nelson, Philip C.) Exact theory of kinkable elastic polymers. (English summary) **2005m:82168**
Wolters, B. J. B. M. *see* **van de Vosse, F. N. et al., 2005b:76147**
Yang, Fuqian *see* **Shen, Wensheng et al.**
Yeh, Li-Chin A singularly perturbed reaction-diffusion problem with inhomogeneous environment. (English summary) **2005f:35175**
Yin, Yajun Integral theorems based on a new gradient operator derived from biomembranes. I. Fundamentals. (English summary)
— Integral theorems based on a new gradient operator derived from biomembranes. II. Applications. (English summary)
Yoon, Jeong-Rock *see* **McLaughlin, Joyce R., 2005b:74070**
Zhang, Hong Wei[2] *see* **Chen, Guowang, 2005b:35031**
Zhang, Jun[2] *see* **Shen, Wensheng et al.**
(Zimmermann, Walter Josef) *see* **Function and regulation of cellular systems, 2005b:92001**

Items listed otherwise than by author

Function and regulation of cellular systems ★ Function and regulation of cellular systems. **2005b:92001**
Modeling and simulation of capsules and biological cells ★ Modeling and simulation of capsules and biological cells. **2005b:92016**

74L99 None of the above, but in this section

Items with secondary classifications in 74L99

Dubey, Balram Models for the effect of high speed wind on the depletion of fertile topsoil. (English summary) **2005j:86004**
Duda, F. P. (*with* Šilhavý, M.) Dislocation walls in crystals under single slip. (English summary) **2005i:74005**
Šilhavý, M. *see* **Duda, F. P., 2005i:74005**

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74M05 Control, switches and devices ("smart materials") [see also 93Cxx]

Abdel-Rohman, Mohamed (*with* Spencer, Billie F.) Control of wind-induced nonlinear oscillations in suspended cables. (English summary)
Baweja, M. *see* **Szyszkowski, W.**
Bochard, S. *see* **Gaudiller, L., 2005m:74065**
Brennan, Michael John *see* **Liu, Yuyou et al.**
Bruch, J. C., Jr. *see* **Zhang, Jianying et al., 2005k:74059**
Chen, De Cheng *see* **Yang, J. B. et al.**
Cho, Yun Hyun *see* **Heo, Hoon et al., 2005b:74086**
Choi, Ji-Yun (*with* Hong, Keum-Shik; Yang, Kyung-Jinn) Exponential stabilization of an axially moving tensioned strip by passive damping and boundary control. (English summary) **2005c:74056**
Correia, Isidoro F. P. *see* **Simões Moita, José M. et al.**
Ding, J. H. *see* **Tzou, H. S.**
Ditkovskiĭ, A. E. *see* **Golubev, Yu. F., 2005h:74049**
El-Bassiouny, A. F. Effect of non-linearities in elastomeric material dampers on torsional oscillation control. (English summary)
Gaudiller, L. (*with* Bochard, S.) Adaptive active control of flexible structures subjected to rigid body displacements. (English summary) **2005m:74065**
Gervasio, Paola (*with* Naso, Maria Grazia) Numerical approximation of controllability of trajectories for Euler-Bernoulli thermoelastic plates. (English summary) **2005g:74084**
Golubev, Yu. F. (*with* Ditkovskiĭ, A. E.) Control of an elastic manipulator taking into account the useful load and the force of gravity. (Russian. Russian summary) **2005h:74049**
Guo, Bao Zhu (*with* Xie, Yu[1]) Basis property and stabilization of a translating tensioned beam through a pointwise control force. (English summary) **2005d:74023**
Heo, Hoon (*with* Cho, Yun Hyun; Kim, Dae Jung) Stochastic control of flexible beam in random flutter. (English summary) **2005b:74086**
Hong, Keum-Shik *see* **Choi, Ji-Yun et al., 2005c:74056**
Jiang, L. J. *see* **Yang, J. B. et al.**
Kim, Dae Jung *see* **Heo, Hoon et al., 2005b:74086**
Ko, Jan Ming *see* **Ying, Z. G. et al., 2005g:74086**
Li, Xiao Chun *see* **Sui, Ming**
Liu, Yuyou (*with* Waters, T. P.; Brennan, Michael John) A comparison of semi-active damping control strategies for vibration isolation of harmonic disturbances. (English summary)
Macchelli, Alessandro (*with* Melchiorri, Claudio) Control by interconnection of the Timoshenko beam. (English summary) **2005g:74085**

— (*with* Melchiorri, Claudio) Modeling and control of the Timoshenko beam. The distributed port Hamiltonian approach. (English summary) **2005m:74066**

Matvīĭchuk, K. S. Technical stability with respect to measure of solutions of nonlinear differential equations that characterize the controlled vertical motion of an elastic body. (Russian. Russian summary) **2005j:74042**

Melchiorri, Claudio *see* **Macchelli, Alessandro, 2005g:74085** *and* **2005m:74066**

Mota Soares, Carlos A. *see* **Simões Moita, José M. et al.**

Mota Soares, Cristóvão M. *see* **Simões Moita, José M. et al.**

Naso, Maria Grazia *see* **Gervasio, Paola, 2005g:74084**

Ni, Yi Qing *see* **Ying, Z. G. et al., 2005g:74086**

Papadimitriou, Costas Optimal sensor placement methodology for parametric identification of structural systems. (English summary)

Qiu, Yang *see* **Qu, Wenzhong et al.**

Qu, Wenzhong (*with* Sun, Jin Cai; Qiu, Yang) Active control of vibration using a fuzzy control method. (English summary)

Simões Moita, José M. (*with* Correia, Isidoro F. P.; Mota Soares, Cristóvão M.; Mota Soares, Carlos A.) Active control of adaptive laminated structures with bonded piezoelectric sensors and actuators. (English summary)

Sloss, J. M. *see* **Zhang, Jianying et al., 2005k:74059**

Spencer, Billie F. *see* **Abdel-Rohman, Mohamed**

Sui, Ming (*with* Li, Xiao Chun) Variable structure control of a thermoelastic system. (Chinese. English and Chinese summaries)

Sun, Jin Cai *see* **Qu, Wenzhong et al.**

Szyszkowski, W. (*with* Baweja, M.) Optimal gains for active vibration control by the beam analogy. (English summary)

Tzou, H. S. (*with* Ding, J. H.) Optimal control of precision paraboloidal shell structronic systems. (English summary)

Voropay, A. V. *see* **Yanyutin, E. G.**

Waters, T. P. *see* **Liu, Yuyou et al.**

Xie, Yu[1] *see* **Guo, Bao Zhu, 2005d:74023**

Yang, J. B. (*with* Jiang, L. J.; Chen, De Cheng) Dynamic modelling and control of a rotating Euler-Bernoulli beam. (English summary)

Yang, Kyung-Jinn *see* **Choi, Ji-Yun et al., 2005c:74056**

Yanyutin, E. G. (*with* Voropay, A. V.) Controlling nonstationary vibrations of a plate by means of additional loads. (English summary)

Ying, Z. G. (*with* Ni, Yi Qing; Ko, Jan Ming) Semi-active optimal control of linearized systems with multi-degree of freedom and application. (English summary) **2005g:74086**

Zhang, Jianying (*with* Bruch, J. C., Jr.; Sloss, J. M.) An integral equation approach for shape optimization of plate piezoelectric patch. (English summary) **2005k:74059**

Items with secondary classifications in 74M05

Adali, Sarp *see* **Sloss, J. M. et al., 2005k:49072**

Agrawal, Sunil K. *see* **Zhang, Yuhong[1] et al.**

Amer, Y. A. *see* **Eissa, M., 2005a:93133**

Ammari, Kais (*with* Jellouli, Mohamed) Stabilization of star-shaped networks of strings. (English summary) **2005h:93127**

Andreĭchenko, D. K. (*with* Andreĭchenko, K. P.) On the theory of the stabilization of satellites with elastic rods. (Russian. Russian summary)

Andreĭchenko, K. P. *see* **Andreĭchenko, D. K.**

Aron, Dan *see* **Li, Yugang et al.**

Avalos, George (*with* Lasiecka, Irena; Rebarber, Richard) Boundary controllability of a coupled wave/Kirchoff system. (English summary) **2005a:93015**

— (*with* Lasiecka, Irena) Exact boundary controllability of a hybrid PDE system arising in structural acoustic modeling. (English summary) **2005e:93009**

— (*with* Lasiecka, Irena) The null controllability of thermoelastic plates and singularity of the associated minimal energy function. (English summary) **2005b:93015**

Balakrishnan, A. V. (*with* Shubov, Marianna A.) Asymptotic behaviour of the aeroelastic modes for an aircraft wing model in a subsonic air flow. (English summary) **2005m:76107**

— (*with* Shubov, Marianna A.; Peterson, Cheryl A.) Spectral analysis of coupled Euler-Bernoulli and Timoshenko beam model. (English summary) **2005d:47090**

Becerril Arreola, Rafael *see* **Maggiore, Manfredi, 2005e:93060**

Belishev, M. I. On the boundary controllability of a dynamical system described by the wave equation on a class of graphs (on trees). (Russian. English and Russian summaries) **2005c:93010**

Berrahmoune, Larbi Pointwise stabilization of strings with non-linear feedback. (English summary) **2005g:93088**

Bey, Rabah (*with* Heminna, Amar; Lohéac, Jean-Pierre) Boundary stabilization of the linear elastodynamic system by a Lyapunov-type method. **2005f:93133**

Bhoir, Nilesh (*with* Singh, Sahjendra N.) Output feedback modular adaptive control of a nonlinear prototypical wing section. (English summary) **2005f:93089**

Biswas, Saroj K. Optimal control of gantry crane for minimum payload oscillations. (English summary) (*see* **2005i:00016**)

Bratus', A. S. (*with* Ivanova, A. P.) Local solutions of the Hamilton-Jacobi-Bellman equation and their application to the problem of the optimal control of the oscillations of elastic distributed systems. (Russian. Russian summary) **2005g:93122**

von Bremen, Hubertus F. *see* **Udwadia, Firdaus E. et al., 2005b:93075**

Brigadnov, Igor A. (*with* Dorfmann, Al) Mathematical modeling of magnetorheological fluids. (English summary) **2005k:76005**

Bruch, J. C., Jr. *see* **Sloss, J. M. et al., 2005k:49072**

Bucci, Francesca (*with* Lasiecka, Irena) Singular estimates and Riccati theory for thermoelastic plate models with boundary thermal control. (English summary) **2005e:49067**

Burger, Martin (*with* Capasso, Vincenzo; Micheletti, Alessandra) Optimal control of polymer morphologies. (English summary) **2005m:74076**

Cao, H. (*with* Li, Qing Shan) New control strategies for active tuned mass damper systems. (English summary)

Capasso, Vincenzo *see* **Burger, Martin et al., 2005m:74076**

Chabakauri, G. D. On the vibrations of a string with a free right endpoint and with boundary control of small absolute value at the left endpoint. (Russian. Russian summary) **2005k:35240**

Chai, Shu Gen Boundary feedback stabilization of Naghdi's model. (English summary) **2005k:93171**

Chakraborty, Abir (*with* Roy Mahapatra, D.; Gopalakrishnan, S.) Finite element simulation of BAW propagation in inhomogeneous plate due to piezoelectric actuation. (English summary) (*see* **2005g:65009**)

Chang, Jin De (*with* Yao, Cui Zhen) Completeness of the root subspace of a beam equation with boundary feedback control. (Chinese. English and Chinese summaries)

Chattopadhyay, Aditi *see* **Ghoshal, Anindya et al.**

Chen, Su Huan (*with* Guo, K. J.; Chen, Yu Dong) A method for estimating upper and lower bounds of eigenvalues of closed-loop systems with uncertain parameters. (English summary)

Chen, Y. C. *see* **Wang, Jenn-Nan et al., 2005f:93077**

Chen, Yu Dong *see* **Chen, Su Huan et al.**

Chen, Zhen-Guo (*with* Yan, Qing-Xu; Li, Zhaoqi) Boundary stabilization of nonuniform Timoshenko beam with rotor inertia at the tip. (English summary) **2005c:93079**

— *see also* **Yan, Qing-Xu et al.**

Chentouf, Boumediène Dynamic boundary controls of a rotating body-beam system with time-varying angular velocity. **2005h:93130**

Chou, So-Hsiang *see* **Wang, Jenn-Nan et al., 2005f:93077**

Dadfarnia, Mohsen (*with* Jalili, Nader; Xian, Bin; Dawson, Darren M.) Lyapunov-based vibration control of translational Euler-Bernoulli beams using the stabilizing effect of beam damping mechanisms. (English summary) **2005a:74043**

Dáger, René Simultaneous interior controllability of elastic strings. (English summary) (*see* **2005b:00020**)

— Observation and control of vibrations in tree-shaped networks of strings. (English summary) **2005c:93042**

Dankowicz, Harry (*with* Zhao, Xiaopeng) Local analysis of co-dimension-one and co-dimension-two grazing bifurcations in impact microactuators. (English summary) **2005m:70078**

Dawson, Darren M. *see* **Dadfarnia, Mohsen et al., 2005a:74043**

Deĭneka, V. S. *see* **Sergienko, Ivan V., 2005f:49066; 2005h:49009; 2005h:49010; 2005h:49063** *and* **2005k:49011**

Di Gennaro, S. Output attitude tracking for flexible spacecraft. (English summary)

Dorfmann, Al *see* **Brigadnov, Igor A., 2005k:76005**

Du, Haiping (*with* Lam, James; Sze, Kam Yim) Non-fragile H_∞ vibration control for uncertain structural systems. (English summary) **2005b:93054**

Eissa, M. (*with* Amer, Y. A.) Vibration control of a cantilever beam subject to both external and parametric excitation. (English summary) **2005a:93133**

de Espíndola, José João (*with* da Silva Neto, João Morais) Identification of flexural stiffness parameters of beams. (English summary) (*see* **2005b:93006**)

Fabrizio, Mauro (*with* Giorgi, Claudio; Naso, Maria Grazia) Viscoelastic solids of exponential type. I. Minimal representations and controllability. (English summary) **2005k:74016**

Feng, De Xing *see* **Xu, Gen Qi et al., 2005b:93081** *and* **Yan, Qing-Xu et al., 2005c:93089**

Fleming, Andrew J. *see* **Moheimani, S. O. Reza et al., 2005h:74028**

Friswell, Michael I. (*with* Prells, Uwe; Garvey, Seamus D.) Low-rank damping modifications and defective systems. (English summary) **2005h:70023**

Gao, Shi Chen (*with* Wan, Li[2]; Yan, Qing-Xu) A note on nonlinear boundary stabilization of nonuniform Euler-Bernoulli beam. (English and Chinese summaries) **2005j:93065**

Garvey, Seamus D. *see* **Friswell, Michael I. et al., 2005h:70023**

Ge, Shuzhi Sam (*with* Lee, Tong Heng; Hong, Fan[2]; Goh, Cher Hiang) Energy-based robust controller design for flexible spacecraft. (English summary)

— *see also* **Gong, Jianqin et al., 2005f:93066**

George, Raju K. *see* **Nandakumaran, Akambadath K., 2005d:93016**

Ghosal, Ashitava *see* **Theodore, Rex J., 2005m:70048**

Ghoshal, Anindya (*with* Kim, Heung Soo; Chattopadhyay, Aditi; Prosser, William H.) Effect of delamination on transient history of smart composite plates. (English summary)

Giorgi, Claudio *see* **Fabrizio, Mauro et al., 2005k:74016**

Goh, Cher Hiang *see* **Ge, Shuzhi Sam et al.**

Gong, Jianqin (*with* Ge, Shuzhi Sam; Wan, Bai Wu) Robust distributed controller design of rotational single-link smart materials beam. (English summary) **2005f:93066**

Gopalakrishnan, S. *see* **Chakraborty, Abir et al.,** (**2005g:65009**)

Grobbelaar-Van Dalsen, Marié Dynamic boundary stabilization of a Reissner-Mindlin plate with Timoshenko beam. (English summary) **2005h:49070**

Guo, Bao Zhu (*with* Xie, Yu[1]; Hou, Xue-Zhang) On spectrum of a general Petrovsky type equation and Riesz basis of N-connected beams with linear feedback at joints. (English summary) **2005c:93043**

— (*with* Wang, Jun Min[2]; Yung, Siu Pang) On the C_0-semigroup generation and exponential stability resulting from a shear force feedback on a rotating beam. (English summary) **2005k:93149**

— *see also* **Zhang, Q., 2005e:93078**

Guo, Faming (*with* Huang, Fa-Lun) Boundary feedback stabilization of the undamped Euler-Bernoulli beam with both ends free. (English summary) **2005e:93076**

Guo, K. J. *see* **Chen, Su Huan et al.**

Gutman, Per-Olof *see* **Nordin, Mattias**

Hagedorn, Peter *see* **Zhang, Yuhong[1] et al.**

(Halevi, Yoram) *see* **Larin, Vladimir B.**

Halim, Dunant *see* **Moheimani, S. O. Reza et al., 2005h:74028**

Hansen, Scott W. Several related models for multilayer sandwich plates. (English summary) **2005e:74033**

Heminna, Amar *see* **Bey, Rabah et al., 2005f:93133**

Hlaváček, Ivan (*with* Lovišek, Ján) Semi-coercive variational inequalities with uncertain input data. Applications to shallow shells. (English summary) **2005m:49019**

Hong, Fan[2] *see* **Ge, Shuzhi Sam et al.**

Hong, Keum-Shik *see* **Yang, Kyung-Jinn et al., 2005b:93087**

Hosseini, Mohamed *see* **Udwadia, Firdaus E. et al., 2005b:93075**

Hou, Xue-Zhang (*with* Tsui, Sze-Kai) Analysis and control of a two-link and three-joint elastic robot arm. (English summary) **2005b:93041**

— Asymptotical behavior of a flexible robot system with point-wise control. (English

summary) **2005e:93104**
— *see also* **Guo, Bao Zhu et al., 2005c:93043**
Hua, Hongxing *see* **Shi, Yinming et al.**
Huang, Fa-Lun *see* **Guo, Faming, 2005e:93076**; **Liu, Yan[4] et al., 2005h:93138** *and* **Jiang, Wei-sheng et al.**
Ibrahimbegovic, A. (*with* Knopf-Lenoir, C.; Kučerová, A.; Villon, Pierre) Optimal design and optimal control of structures undergoing finite rotations and elastic deformations. (English summary) **2005f:74066**
Il'in, Vladimir Aleksandrovich[1] Boundary control at one end of an oscillation process described by the equation $k(x)[k(x)u_x(x,t)]_x - u_{tt}(x,t) = 0$. (Russian. Russian summary) **2005h:93089**
— Boundary control of spherically symmetric oscillations of a ball under the condition of the existence of finite energy. (Russian) **2005f:93013**
— (*with* Moiseev, E. I.) Boundary control of radially symmetric oscillations of a round membrane. (Russian) **2005f:93014**
Inman, Daniel J. *see* **Lopes, Vicente, Jr. et al., (2005b:93006)**
Ivanova, A. P. *see* **Bratus', A. S., 2005g:93122**
Jalili, Nader *see* **Dadfarnia, Mohsen et al., 2005a:74043**
Jellouli, Mohamed *see* **Ammari, Kais, 2005h:93127**
Jiang, Wei-sheng (*with* Liu, Yan[4]; Huang, Fa-Lun) Exponential stabilization of elastic plates with damping and dynamical boundary conditions. (English and Chinese summaries)
— *see also* **Liu, Yan[4] et al., 2005h:93138**
Joshi, Suresh Meghashyam *see* **Kelkar, A. G.**
Kapitonov, Boris V. (*with* Perla Menzala, G.) Uniform stabilization and exact control of a multilayered piezoelectric body. (English summary) **2005d:93126**
Kelkar, A. G. (*with* Joshi, Suresh Meghashyam) Control of elastic systems via passivity-based methods. (English summary)
Khapalov, Alexander Controllability properties of a vibrating string with variable axial load. (English summary) **2005e:93015**
Kim, Heung Soo *see* **Ghoshal, Anindya et al.**
Kim, Jae-Jun (*with* Singh, Tarunraj) Desensitized control of vibratory systems with friction: linear programming approach. (English summary)
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Ko, Jan Ming *see* **Ying, Z. G. et al., 2005e:93171**
Komornik, Vilmos (*with* Loreti, Paola) A further note on a theorem of Ingham and simultaneous observability in critical time. (English summary) **2005i:93051**
Krejčí, Pavel (*with* Kuhnen, Klaus) Error estimates for the discrete inversion of hysteresis and creep operators. (English summary) **2005e:74048**
Kučerová, A. *see* **Ibrahimbegovic, A. et al., 2005f:74066**
Kucuk, Ismail (*with* Sadek, Ibrahim) Optimal control of an elastically connected rectangular plate-membrane system. (English summary) **2005k:49113**
Kuhnen, Klaus *see* **Krejčí, Pavel, 2005e:74048**
Kuliev, G. F. (*with* Teyyubova, Fargana R.) The optimal control problem for the equation of oscillations of a three-layer plate. (English summary) **2005j:49004**
Kumar, Ravi *see* **Udwadia, Firdaus E. et al., 2005b:93075**
Łada, Andrzej (*with* Sidz, Leszek) Stable Dirichlet observability and controllability for the evolution isotropic Lame system with variable coefficients. (English summary) **2005c:93012**
— (*with* Sidz, Leszek) Approximate boundary controllability for the system of linear elasticity. (English summary) **2005h:93017**
Lam, James *see* **Du, Haiping et al., 2005b:93054**
Larin, Vladimir B. Comments on: "Approximated Gramians and balanced realization of lightly damped flexible structures" [IEEE Trans. Automat. Control **47** (2002), no. 1, 193–198; MR1879712] by Y. Halevi. (English summary)
Lasiecka, Irena (*with* Triggiani, Roberto; Yao, P. F.) Carleman estimates for a plate equation on a Riemann manifold with energy level terms. (English summary) **2005g:58073**
— *see also* **Avalos, George et al., 2005a:93015**; **2005b:93015**; **2005e:93009** *and* **Bucci, Francesca, 2005e:49067**
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Lee, Tong Heng *see* **Ge, Shuzhi Sam et al.**
Li, Qing Shan *see* **Cao, H.**
Li, Ta Tsien (*with* Xu, Yu-Lan) Local exact boundary controllability for nonlinear vibrating string equations. (English summary) **2005b:93019**
Li, Yugang (*with* Aron, Dan; Rahn, Christopher David) Adaptive vibration isolation for axially moving strings: theory and experiment. (English summary)
Li, Zhaoqi *see* **Chen, Zhen-Guo et al., 2005c:93079**
Lin, Chun-Liang *see* **Liu, Van-Tsai et al., 2005c:93081**
Lin, Wen Wei (*with* Wang, Jenn-Nan) Partial pole assignment for the vibrating system with aerodynamic effect. (English summary) **2005h:93079**
— *see also* **Wang, Jenn-Nan et al., 2005f:93077**
Liu, I-Shih *see* **Rincon, Mauro Antonio, 2005c:49067**
Liu, Van-Tsai (*with* Lin, Chun-Liang; Lee, Gean-Pao) Neural-network-based identification and control of a thin plate using piezoelectric actuators and sensors. (English summary) **2005c:93081**
Liu, Yan[4] (*with* Jiang, Wei-sheng; Huang, Fa-Lun) On the stabilization of elastic plates with dynamical boundary control. (English summary) **2005h:93138**
— *see also* **Jiang, Wei-sheng et al.**
Lohéac, Jean-Pierre *see* **Bey, Rabah et al., 2005f:93133**
Lopes, Vicente, Jr. (*with* Steffen, Valder, Jr.; Inman, Daniel J.) Optimal placement of piezoelectric sensor/actuators for smart structures vibration control. (English summary) (*see* **2005b:93006**)
Loreti, Paola *see* **Komornik, Vilmos, 2005i:93051**
Lovíšek, Ján *see* **Hlaváček, Ivan, 2005m:49019**
Lu, Dian Chen (*with* Yan, Min Juan; Tian, Li Xin; Zhang, Zheng Di) H_∞ control of nonlinear simply supported beam vibrations. (Chinese. English and Chinese summaries)
Maggiore, Manfredi (*with* Becerril Arreola, Rafael) Modelling and control design for a magnetic levitation system. (English summary) **2005e:93060**
Mat Darus, I. Z. (*with* Tokhi, M. O.) Genetic algorithms based adaptive active vibration control of a flexible structure. (English summary)
Matsuno, Fumitoshi *see* **Yang, Kyung-Jinn et al., 2005b:93087**
Matvĭĭchuk, K. S. Determination of conditions for the technical stability of the nonlinear states of a controlled elastic aircraft. (Russian. Russian and Armenian summaries)
Micheletti, Alessandra *see* **Burger, Martin et al., 2005m:74076**
Mikulski, Leszek Control structure in optimization problems of bar systems. (English summary)
Miller, Luc How violent are fast controls for Schrödinger and plate vibrations? (English summary) **2005d:93022**
Min, Kyung-Won *see* **Park, Ji-Hun**
Mohammadi, Bijan Sensitivity analysis and control in an elastic CAD-free framework for multi-model configurations. **2005d:74012**
Moheimani, S. O. Reza (*with* Halim, Dunant; Fleming, Andrew J.) ★ Spatial control of vibration. **2005h:74028**
Moiseev, E. I. *see* **Il'in, Vladimir Aleksandrovich[1], 2005f:93014**
Moreles, Miguel Ángel Exact controllability and perturbation analysis for elastic beams. (English summary) **2005d:93014**
Muñoz Rivera, Jaime Edilberto (*with* Naso, Maria Grazia) Exact controllability for hyperbolic thermoelastic systems with large memory. (English summary) **2005h:93019**
Nandakumaran, Akambadath K. (*with* George, Raju K.) Exact controllability of a semilinear thermoelastic system. (English summary) **2005d:93016**
Naso, Maria Grazia *see* **Muñoz Rivera, Jaime Edilberto, 2005h:93019** *and* **Fabrizio, Mauro et al., 2005k:74016**
Ni, Yi Qing *see* **Ying, Z. G. et al., 2005e:93171**
Nicaise, Serge (*with* Zaïr, Ouahiba) Determination of point sources in vibrating beams by boundary measurements: identifiability, stability, and reconstruction results. (English summary) **2005h:35364**
Nordin, Mattias (*with* Gutman, Per-Olof) Controlling mechanical systems with backlash—a survey. (English summary)
de Oliveira, Frederico Ricardo Ferreira *see* **de Toledo Fleury, Agenor, (2005b:93006)**
Palazotto, A. N. *see* **Perel, V. Y., 2005b:74074**
Park, Ji-Hun (*with* Min, Kyung-Won) Bounded nonlinear stochastic control based on the probability distribution for the SDOF oscillator. (English summary)
Pawłow, Irena (*with* Żochowski, Antoni) Control problem for a non-linear thermoelasticity system. (English summary) **2005h:49062**
Perel, V. Y. (*with* Palazotto, A. N.) A nonlinear model of composite delaminated beam with piezoelectric actuator, with account of nonpenetration constraint for the delamination crack faces. (English summary) **2005b:74074**
Perla Menzala, G. *see* **Kapitonov, Boris V., 2005d:93126**
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Prells, Uwe *see* **Friswell, Michael I. et al., 2005h:70023**
Prosser, William H. *see* **Ghoshal, Anindya et al.**
Qu, Zhihua An iterative learning algorithm for boundary control of a stretched moving string. (English summary) **2005k:93107**
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Rebarber, Richard *see* **Avalos, George et al., 2005a:93015**
Reynolds, Daniel R. *see* **Klouček, Petr et al., 2005c:74033**
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Roy Mahapatra, D. *see* **Chakraborty, Abir et al., (2005g:65009)**
Russell, David L. Dynamics and stabilization of an elastic tape moving axially between two sets of rollers. (English summary) **2005c:93084**
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Seidman, Thomas I. *see* **Klouček, Petr et al., 2005c:74033**
Sergienko, Ivan V. (*with* Deĭneka, V. S.) Optimal control of a system described by a fourth-order two-dimensional equation with conjugation conditions. (Russian. English and Ukrainian summaries) **2005f:49066**
— (*with* Deĭneka, V. S.) Optimal control of the deformed state of a composite body. (Russian. English, Russian and Ukrainian summaries) **2005h:49063**
— (*with* Deĭneka, V. S.) Optimal control of the thermostressed state of a composite body. (Russian. English, Russian and Ukrainian summaries) **2005h:49009**
— (*with* Deĭneka, V. S.) Optimal control of the quasistatic stress-strain state of a composite body. (Russian. English, Russian and Ukrainian summaries) **2005h:49010**
— (*with* Deĭneka, V. S.) Control of a dynamic elastic equilibrium system with adjoint conditions. (Russian. English, Russian and Ukrainian summaries) **2005k:49011**
Shi, Yinming (*with* Hua, Hongxing; Sol, Hugo) The finite element analysis and experimental study of beams with active constrained layer damping treatments. (English summary)
Shirakawa, Ken (*with* Stefanelli, Ulisse) Structure result for steady-state solutions of a one-dimensional Frémond model of SMA. (English summary) **2005d:74029**
Shubov, Marianna A. Spectral properties of the generalized resolvent operator for an aircraft wing model in subsonic airflow. (English summary) **2005d:74013**
— (*with* Peterson, Cheryl A.) Asymptotic analysis of nonselfadjoint operators generated by coupled Euler-Bernoulli and Timoshenko beam model. (English summary) **2005b:35276**
— *see also* **Balakrishnan, A. V. et al., 2005d:47090** *and* **2005m:76107**
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Singh, Tarunraj *see* **Kim, Jae-Jun**
Sivergina, Irina F. (*with* Polis, Michael P.) Exact null controllability of a nonlinear thermoelastic contact problem. (English summary) **2005i:93016**

Sloss, J. M. (*with* Bruch, J. C., Jr.; Sadek, Ibrahim; Adali, Sarp) Boundary optimal control of structural vibrations in an annular plate. (English summary) **2005k:49072**
Sol, Hugo *see* **Shi, Yinming et al.**
Stefanelli, Ulisse *see* **Shirakawa, Ken, 2005d:74029**
Steffen, Valder, Jr. *see* **Lopes, Vicente, Jr. et al., (2005b:93006)**
Suleman, A. Multibody dynamics and nonlinear control of flexible space structures. (English summary)
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Teyyubova, Fargana R. *see* **Kuliev, G. F., 2005j:49004**
Theodore, Rex J. (*with* Ghosal, Ashitava) Robust control of multilink flexible manipulators. (English summary) **2005m:70048**
Tian, Li Xin *see* **Lu, Dian Chen et al.**
Tokhi, M. O. *see* **Mat Darus, I. Z.**
de Toledo Fleury, Agenor (*with* de Oliveira, Frederico Ricardo Ferreira) Dynamics and control of a flexible rotating arm through the movement of a sliding mass. (English summary) (*see* **2005b:93006**)
Triggiani, Roberto *see* **Lasiecka, Irena et al., 2005g:58073**
Tsui, Sze-Kai *see* **Hou, Xue-Zhang, 2005b:93041**
Udwadia, Firdaus E. (*with* von Bremen, Hubertus F.; Kumar, Ravi; Hosseini, Mohamed) Time delayed control of structural systems. (English summary) **2005b:93075**
— Boundary control, quiet boundaries, super-stability and super-instability. (English summary) **2005j:93042**
Villon, Pierre *see* **Ibrahimbegovic, A. et al., 2005f:74066**
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Wan, Li² *see* **Gao, Shi Chen et al., 2005j:93065**
Wang, Jenn-Nan (*with* Chou, So-Hsiang; Chen, Y. C.; Lin, Wen Wei) Pole assignment for a vibrating system with aerodynamic effect. (English summary) **2005f:93077**
— *see also* **Lin, Wen Wei, 2005h:93079**
Wang, Jun Min² (*with* Xu, Gen Qi; Yung, Siu Pang) Exponential stability of variable coefficients Rayleigh beams under boundary feedback controls: a Riesz basis approach. (English summary) **2005d:93120**
— *see also* **Guo, Bao Zhu et al., 2005k:93149**
Wang, Sheng-Guo (*with* Yeh, Hsiang; Roschke, P. N.) Robust active control for structural systems with structured uncertainties. (English summary) **2005h:93053**
Xian, Bin *see* **Dadfarnia, Mohsen et al., 2005a:74043**
Xie, Yu¹ *see* **Guo, Bao Zhu et al., 2005c:93043**
Xu, Gen Qi (*with* Feng, De Xing; Yung, Siu Pang) Riesz basis property of the generalized eigenvector system of a Timoshenko beam. (English summary) **2005b:93081**
— (*with* Yung, Siu Pang) Exponential decay rate for a Timoshenko beam with boundary damping. (English summary)
— *see also* **Wang, Jun Min² et al., 2005d:93120**
Xu, Yu-Lan *see* **Li, Ta Tsien, 2005b:93019**
Yan, Min Juan *see* **Lu, Dian Chen et al.**
Yan, Qing-Xu (*with* Zou, Hui-chao; Feng, De Xing) Nonlinear boundary stabilization of nonuniform Timoshenko beam. (English summary) **2005c:93089**
— (*with* Chen, Zhen-Guo; Feng, De Xing) Exponential stabilization of Euler-Bernoulli beam with dissipative boundary feedback. (English and Chinese summaries)
— *see also* **Chen, Zhen-Guo et al., 2005c:93079** *and* **Gao, Shi Chen et al., 2005j:93065**
Yang, Kyung-Jinn (*with* Hong, Keum-Shik; Matsuno, Fumitoshi) Robust adaptive boundary control of an axially moving string under a spatiotemporally varying tension. (English summary) **2005b:93087**
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Yao, P. F. *see* **Lasiecka, Irena et al., 2005g:58073**
Yebari, Naji Decay estimates for solutions of some systems for elasticity with nonlinear boundary feedback. (English summary) (*see* **2005i:35003**)
Yeh, Hsiang *see* **Wang, Sheng-Guo et al., 2005h:93053**
Ying, Z. G. (*with* Ni, Yi Qing; Ko, Jan Ming) Non-linear stochastic optimal control for coupled-structures system of multi-degree-of-freedom. (English summary) **2005e:93171**
Yuan, Jing¹ Robust vibration control based on identified models. (English summary) **2005d:70013**
Yung, Siu Pang *see* **Xu, Gen Qi et al., 2005b:93081**; **Wang, Jun Min² et al., 2005d:93120** *and* **Guo, Bao Zhu et al., 2005k:93149**
Zaïr, Ouahiba *see* **Nicaise, Serge, 2005h:35364**
Zhang, Jianying Level set method for shape optimization of plate piezoelectric patches. (English summary) **2005d:49063**
Zhang, Q. (*with* Guo, Bao Zhu) Stabilization of an elastic plate with viscoelastic boundary conditions. (English summary) **2005e:93078**
Zhang, Shu Qin (*with* Yao, Cui Zhen) The dynamic behavior of Euler-Bernoulli beam under self-excited boundary feedback. (Chinese. English and Chinese summaries)
Zhang, Yuhong¹ (*with* Agrawal, Sunil K.; Hagedorn, Peter) Longitudinal vibration modeling and control of a flexible transporter system with arbitrarily varying cable lengths. (English summary)
Zhang, Zheng Di *see* **Lu, Dian Chen et al.**
Zhao, Xiaopeng *see* **Dankowicz, Harry, 2005m:70078**
Znamenskaya, L. N. Constrained controllability of the vibrations of a string with one fixed endpoint. (Russian. Russian summary) **2005k:93029**
Żochowski, Antoni *see* **Pawłow, Irena, 2005h:49062**
Zou, Hui-chao *see* **Yan, Qing-Xu et al., 2005c:93089**

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Adams, George G. (*with* Barber, James R.; Ciavarella, M.; Rice, James R.) A paradox in sliding contact problems with friction. (English summary) **2005m:74067**
Baniotopoulos, Charalambos C. (*with* Haslinger, Jaroslav; Morávková, Zuzana) Mathematical modeling of delamination and nonmonotone friction problems by hemivariational inequalities. (English summary) **2005k:74060**
Barber, James R. *see* **Adams, George G. et al., 2005m:74067**
Ciavarella, M. *see* **Adams, George G. et al., 2005m:74067**
Elaguine, Denis *see* **Storåkers, Bertil**
Feng, Zhi-Qiang *see* **Hjiaj, Mohammed et al., 2005f:74058**
Gorbatikh, Larissa Mathematical and computational aspects of nonuniform frictional slip modeling. (English summary)
Haslinger, Jaroslav *see* **Baniotopoulos, Charalambos C. et al., 2005k:74060**
Hassani, Riad (*with* Hild, Patrick; Ionescu, Ioan R.) Sufficient conditions of non-uniqueness for the Coulomb friction problem. (English summary) **2005a:74070**
Hild, Patrick Non-unique slipping in the Coulomb friction model in two-dimensional linear elasticity. (English summary) **2005a:74071**
— *see also* **Hassani, Riad et al., 2005a:74070**
Hjiaj, Mohammed (*with* Feng, Zhi-Qiang; de Saxcé, Géry; Mróz, Z.) On the modelling of complex anisotropic frictional contact laws. (English summary) **2005f:74058**
Ionescu, Ioan R. *see* **Hassani, Riad et al., 2005a:74070**
Martins, J. A. C. (*with* Pinto da Costa, A.) Finite dimensional frictional contact quasi-static rate and evolution problems revisited. (English summary) **2005h:74050**
Merouani, Boubakeur *see* **Selmani, Mohamed et al., 2005k:74061**
Morávková, Zuzana *see* **Baniotopoulos, Charalambos C. et al., 2005k:74060**
Mróz, Z. *see* **Hjiaj, Mohammed et al., 2005f:74058**
Pinto da Costa, A. *see* **Martins, J. A. C., 2005h:74050**
Rice, James R. *see* **Adams, George G. et al., 2005m:74067**
de Saxcé, Géry *see* **Hjiaj, Mohammed et al., 2005f:74058**
Selmani, Lynda *see* **Selmani, Mohamed et al., 2005k:74061**
Selmani, Mohamed (*with* Merouani, Boubakeur; Selmani, Lynda) Analysis of a class of frictional contact problems for the Bingham fluid. (English summary) **2005k:74061**
Storåkers, Bertil (*with* Elaguine, Denis) Hertz contact at finite friction and arbitrary profiles. (English summary)
Yu, Hai Sui Three-dimensional analytical solutions for shakedown of cohesive-frictional materials under moving surface loads. (English summary)

Items with secondary classifications in 74M10

Ait Mansour, Mohamed *see* **Sofonea, Mircea, 2005f:49036**
Alart, Pierre *see* **Renouf, Mathieu, 2005m:74073**
Aleksandrov, Viktor Mikhaĭlovich (*with* Pozharskiĭ, D. A.) Three-dimensional contact problems taking friction and nonlinear roughness into account. (Russian. Russian summary) **2005c:74057**
Angelov, Todor A. Variational analysis of a rigid-plastic rolling problem. (English summary) **2005h:74051**
— (*with* Liolios, Asterios A.) On the two-step iterative method of solving frictional contact problems in elasticity. (English summary) **2005m:74068**
Awbi, Bassam *see* **Chau, Oanh, 2005c:74058**
Bajkowski, J. (*with* Fernández García, José Ramón; Kuttler, Kenneth L.; Shillor, Meir) A thermoviscoelastic beam model for brakes. (English summary) **2005a:74072**
Ballard, Patrick (*with* Basseville, Stéphanie) Existence and uniqueness for dynamical unilateral contact with Coulomb friction: a model problem. (English summary) **2005k:34035**
Barbarin, Serge *see* **Raous, Michel et al., 2005b:74125**
Basseville, Stéphanie *see* **Ballard, Patrick, 2005k:34035**
Bathe, Klaus-Jürgen *see* **Hong, Jung-Wuk, 2005k:74075**
Bui, Huy Duong (*with* Oueslati, A.) The sliding interface crack with friction between elastic and rigid bodies. (English summary) **2005k:74071**
Campo Andión, M. (*with* Fernández García, José Ramón) Numerical analysis of a quasistatic thermoviscoelastic frictional contact problem. (English summary) **2005k:74062**
Chau, Oanh (*with* Awbi, Bassam) Quasistatic thermoviscoelastic frictional contact problem with damped response. (English summary) **2005c:74058**
Chen, Yi Ming *see* **Hao, Ya Juan et al.**
Cocou, Marius (*with* Scarella, Gilles) Existence of a solution to a dynamic unilateral contact problem for a cracked viscoelastic body. (English and French summaries) **2005c:74059**
Denkowski, Zdzisław (*with* Migórski, Stanisław) A system of evolution hemivariational inequalities modeling thermoviscoelastic frictional contact. (English summary) **2005m:74069**
Dobiáš, Jiří *see* **Dostál, Zdeněk et al., 2005g:74103**
Dostál, Zdeněk (*with* Horák, David; Kučera, Radek; Vondrák, Vít; Haslinger, Jaroslav; Dobiáš, Jiří; Pták, Svatopluk) FETI based algorithms for contact problems: scalability, large displacements and 3D Coulomb friction. (English summary) **2005g:74103**
— *see also* **Haslinger, Jaroslav et al., 2005f:74061**
Dunham, Eric M. Dissipative interface waves and the transient response of a three-dimensional sliding interface with Coulomb friction. (English summary) **2005g:74065**
Essoufi, El-Hassan *see* **Sofonea, Mircea, 2005j:74044**
Feng, Zhi-Qiang *see* **Hjiaj, Mohammed et al., 2005a:74087**
Fernández García, José Ramón *see* **Bajkowski, J. et al., 2005a:74072**; **Kuttler, Kenneth L. et al., 2005e:74024** *and* **Campo Andión, M., 2005k:74062**
Ferretti, Gianni (*with* Magnani, Gianantonio; Rocco, Paolo) Single and multistate integral friction models. (English summary) **2005g:70028**
Gachechiladze, Roland Exterior problems with friction in the couple-stress elasticity. (English and Georgian summaries) **2005i:74031**
— Interior and exterior problems of couple-stress and classical elastostatics with given friction. (English summary) **2005k:74035**
Gao, Hong Ling *see* **Hao, Ya Juan et al.**
Glowinski, Roland (*with* Shiau, LieJune; Kuo, Ying Ming; Nasser, G.) The numerical simulation of friction constrained motions. I. One degree of freedom models. (English summary) **2005b:70018**
Guo, Bao Zhu (*with* Zhang, Qiong) On harmonic disturbance rejection of an undamped Euler-Bernoulli beam with rigid tip body. (English summary) **2005h:93073**
Hao, Ya Juan (*with* Chen, Yi Ming; Zhang, Li Na; Gao, Hong Ling; Yang, Ai Min¹) A boundary variational inequality for the Signorini contact problem. (Chinese. English and Chinese summaries)
Haslinger, Jaroslav (*with* Kučera, Radek; Dostál, Zdeněk) An algorithm for the numerical realization of 3D contact problems with Coulomb friction. (English summary) **2005f:74061**

— (*with* Sassi, Taoufik) Mixed finite element approximation of 3D contact problems with given friction: error analysis and numerical realization. (English summary) **2005g:65169**
— (*with* Vlach, Oldřich) Signorini problem with a solution dependent coefficient of friction (model with given friction): approximation and numerical realization. (English summary) **2005m:74070**
— *see also* **Dostál, Zdeněk et al., 2005g:74103**
Hild, Patrick (*with* Sakki, Nour-Dine) On solution multiplicity in friction problems with normal compliance. (English summary) **2005f:74062**
Hjiaj, Mohammed (*with* Feng, Zhi-Qiang; de Saxcé, Géry; Mróz, Z.) Three-dimensional finite element computations for frictional contact problems with non-associated sliding rule. (English summary) **2005a:74087**
Hlaváček, Ivan Unilateral contact with Coulomb friction and uncertain input data. (English summary) **2005b:74088**
Hoarau-Mantel, Thierry-Vincent *see* **Sofonea, Mircea et al., 2005c:74060**
Hong, Jung-Wuk (*with* Bathe, Klaus-Jürgen) Coupling and enrichment schemes for finite element and finite sphere discretizations. (English summary) **2005k:74075**
Horák, David *see* **Dostál, Zdeněk et al., 2005g:74103**
Kozhevnikov, I. F. *see* **Vil'ke, V. G., 2005m:74074**
Kučera, Radek *see* **Haslinger, Jaroslav et al., 2005f:74061** *and* **Dostál, Zdeněk et al., 2005g:74103**
Kumar, Vijay[5] *see* **Song, Peng et al., 2005b:74094**
Kuo, Ying Ming *see* **Glowinski, Roland et al., 2005b:70018**
Kuttler, Kenneth L. (*with* Shillor, Meir) Dynamic contact with Signorini's condition and slip rate dependent friction. (English summary) **2005d:74026**
— (*with* Shillor, Meir; Fernández García, José Ramón) Existence for a thermoviscoelastic beam model of brakes. (English summary) **2005e:74024**
— *see also* **Bajkowski, J. et al., 2005a:74072**
Laursen, Tod A. *see* **Puso, Michael A.**
Liolios, Asterios A. *see* **Angelov, Todor A., 2005m:74068**
Magnani, Gianantonio *see* **Ferretti, Gianni et al., 2005g:70028**
Maischak, Matthias (*with* Stephan, Ernst P.) A FEM-BEM coupling method for a nonlinear transmission problem modelling Coulomb friction contact. (English summary) **2005i:74075**
Migórski, Stanisław (*with* Ochal, Anna) Hemivariational inequality for viscoelastic contact problem with slip-dependent friction. (English summary) **2005k:74064**
— *see also* **Denkowski, Zdzisław, 2005m:74069**
Mróz, Z. *see* **Hjiaj, Mohammed et al., 2005a:74087**
Namm, R. V. *see* **Vikhtenko, È. M., 2005b:49032**
Nasser, G. *see* **Glowinski, Roland et al., 2005b:70018**
Nguyen Quoc Son On friction-induced instabilities and vibrations. (English summary) **2005i:74038**
Ochal, Anna *see* **Migórski, Stanisław, 2005k:74064**
Oueslati, A. *see* **Bui, Huy Duong, 2005k:74071**
Pang, Jong-Shi *see* **Song, Peng et al., 2005b:74094**
Paumier, Jean-Claude Contact unilatéral des structures minces: modélisation, calcul et applications. (French summary) [Unilateral contact of thin structures: modelling, calculations and applications] **2005b:74091**
Peigney, Michaël Simulating wear under cyclic loading by a minimization approach. (English summary) **2005f:74063**
Pop, Nicolae On the convergence of the solution of the quasi-static contact problems with friction using the Uzawa type algorithm. (English summary) **2005h:74022**
Pozharskiĭ, D. A. *see* **Aleksandrov, Viktor Mikhaĭlovich, 2005c:74057**
Pták, Svatopluk *see* **Dostál, Zdeněk et al., 2005g:74103**
Puso, Michael A. (*with* Laursen, Tod A.) A mortar segment-to-segment frictional contact method for large deformations. (English summary)
Raous, Michel (*with* Barbarin, Serge; Vola, Didier) Numerical characterization and computation of dynamic instabilities for frictional contact problems. (English summary) **2005b:74125**
Renouf, Mathieu (*with* Alart, Pierre) Conjugate gradient type algorithms for frictional multi-contact problems: applications to granular materials. (English summary) **2005m:74073**
Rocco, Paolo *see* **Ferretti, Gianni et al., 2005g:70028**
Rodríguez-Arós, A. *see* **Sofonea, Mircea et al., 2005c:74060**
Sakki, Nour-Dine *see* **Hild, Patrick, 2005f:74062**
Sassi, Taoufik *see* **Haslinger, Jaroslav, 2005g:65169**
de Saxcé, Géry *see* **Hjiaj, Mohammed et al., 2005a:74087**
Scarella, Gilles *see* **Cocou, Marius, 2005c:74059**
Shiau, LieJune *see* **Glowinski, Roland et al., 2005b:70018**
Shillor, Meir (*with* Sofonea, Mircea; Telega, J. Joachim) Quasistatic viscoelastic contact with friction and wear diffusion. (English summary) **2005b:74093**
— *see also* **Bajkowski, J. et al., 2005a:74072**; **Kuttler, Kenneth L. et al., 2005d:74026** *and* **2005e:74024**
Sofonea, Mircea (*with* Essoufi, El-Hassan) Quasistatic frictional contact of a viscoelastic piezoelectric body. (English summary) **2005j:74044**
— (*with* Hoarau-Mantel, Thierry-Vincent; Viaño Rey, Juan M.; Rodríguez-Arós, A.) Creep formulation of a quasistatic frictional contact problem. (English summary) **2005c:74060**
— (*with* Ait Mansour, Mohamed) A convergence result for evolutionary variational inequalities and applications to antiplane frictional contact problems. (English summary) **2005f:49036**
— *see also* **Shillor, Meir et al., 2005b:74093**
Song, Peng (*with* Pang, Jong-Shi; Kumar, Vijay[5]) A semi-implicit time-stepping model for frictional compliant contact problems. (English summary) **2005b:74094**
Stephan, Ernst P. *see* **Maischak, Matthias, 2005i:74075**
Telega, J. Joachim *see* **Shillor, Meir et al., 2005b:74093**
Ulĭtko, A. F. *see* **Zhupanska, O. I.**
Viaño Rey, Juan M. *see* **Sofonea, Mircea et al., 2005c:74060**
Vikhtenko, È. M. (*with* Namm, R. V.) A method for solving semi-coercive variational inequalities, based on the method of iterative proximal regularization. (Russian) **2005b:49032**
Vil'ke, V. G. (*with* Kozhevnikov, I. F.) The rolling of a wheel with a reinforced tire on a plane with slippage. (Russian. Russian summary) **2005m:74074**
Vlach, Oldřich *see* **Haslinger, Jaroslav, 2005m:74070**
Vola, Didier *see* **Raous, Michel et al., 2005b:74125**
Vondrák, Vít *see* **Dostál, Zdeněk et al., 2005g:74103**
Yang, Ai Min[1] *see* **Hao, Ya Juan et al.**
Zhang, Li Na *see* **Hao, Ya Juan et al.**
Zhang, Qiong *see* **Guo, Bao Zhu, 2005h:93073**
Zhupanska, O. I. (*with* Ulĭtko, A. F.) Contact with friction of a rigid cylinder with an elastic half-space. (English summary)

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Alart, Pierre *see* **Renouf, Mathieu, 2005m:74073**
Aleksandrov, Viktor Mikhaĭlovich (*with* Pozharskiĭ, D. A.) Three-dimensional contact problems taking friction and nonlinear roughness into account. (Russian. Russian summary) **2005c:74057**
Andrews, Kevin T. (*with* Chapman, L.; Fernández García, José Ramón; Fisackerly, M.; Shillor, Meir; Vanerian, L.; VanHouten, T.) A membrane in adhesive contact. (English summary) **2005g:74087**
Angelov, Todor A. Variational analysis of a rigid-plastic rolling problem. (English summary) **2005h:74051**
— (*with* Liolios, Asterios A.) On the two-step iterative method of solving frictional contact problems in elasticity. (English summary) **2005m:74068**
Areias, P. M. A. (*with* César de Sá, J. M. A.; Conceição António, C. A.) Algorithms for the analysis of 3D finite strain contact problems. (English summary) **2005g:74088**
Argatov, I. I. Allowance for tangential displacements at the contact surface in the axisymmetric Hertz problem. (Russian)
— Pressure of a punch with a fine-grained boundary on an elastic base. (Russian. Russian summary) **2005f:74059**
Arora, J. S. *see* **Mijar, A. R., 2005e:74042** *and* **2005e:74043**
Awbi, Bassam *see* **Chau, Oanh, 2005c:74058**
Bajkowski, J. (*with* Fernández García, José Ramón; Kuttler, Kenneth L.; Shillor, Meir) A thermoviscoelastic beam model for brakes. (English summary) **2005a:74072**
Barboteu, Mikaël (*with* Hoarau-Mantel, Thierry-Vincent; Sofonea, Mircea) On the frictionless unilateral contact of two viscoelastic bodies. **2005i:74059**
Bayada, Guy (*with* Sabil, J.; Sassi, Taoufik) A Neumann-Neumann domain decomposition algorithm for the Signorini problem. (English summary) **2005d:74024**
Bergheau, J.-M. *see* **Chamoret, D. et al.**
Boman, R. (*with* Ponthot, J.-P.) Finite element simulation of lubricated contact in rolling using the arbitrary Lagrangian-Eulerian formulation. (English summary)
Campo Andión, M. (*with* Fernández García, José Ramón) Numerical analysis of a quasistatic thermoviscoelastic frictional contact problem. (English summary) **2005k:74062**
César de Sá, J. M. A. *see* **Areias, P. M. A. et al., 2005g:74088**
Chamoret, D. (*with* Saillard, P.; Rassineux, Alain; Bergheau, J.-M.) New smoothing procedures in contact mechanics. (English summary)
Chapman, L. *see* **Andrews, Kevin T. et al., 2005g:74087**
Chau, Oanh (*with* Awbi, Bassam) Quasistatic thermoviscoelastic frictional contact problem with damped response. (English summary) **2005c:74058**
Cocou, Marius (*with* Scarella, Gilles) Existence of a solution to a dynamic unilateral contact problem for a cracked viscoelastic body. (English and French summaries) **2005c:74059**
Conceição António, C. A. *see* **Areias, P. M. A. et al., 2005g:74088**
Copetti, Maria I. M. Numerical approximation of a thermoviscoelastic problem to the contact of two rods by a penalty method. (English summary) **2005g:74089**
Denkowski, Zdzisław (*with* Migórski, Stanisław) A system of evolution hemivariational inequalities modeling thermoviscoelastic frictional contact. (English summary) **2005m:74069**
Dostál, Zdeněk *see* **Haslinger, Jaroslav et al., 2005f:74061**
Eck, Christof (*with* Wohlmuth, Barbara I.) Convergence of a contact-Neumann iteration for the solution of two-body contact problems. (English summary) **2005d:74025**
Essoufi, El-Hassan *see* **Sofonea, Mircea, 2005g:74090** *and* **2005j:74044**
Fabrikant, V. I. Tangential contact problem for a transversely isotropic elastic layer bonded to a rigid foundation. (English summary) **2005j:74043**
Fernández García, José Ramón (*with* Han, Weimin; Sofonea, Mircea) Numerical simulations in the study of frictionless viscoelastic contact problems. (English summary)
— (*with* Sofonea, Mircea) Variational and numerical analysis of the Signorini's contact problem in viscoplasticity with damage. **2005e:74040**
— *see also* **Bajkowski, J. et al., 2005a:74072**; **Andrews, Kevin T. et al., 2005g:74087** *and* **Campo Andión, M., 2005k:74062**
Fisackerly, M. *see* **Andrews, Kevin T. et al., 2005g:74087**
Foutsitzi, G. (*with* Stavroulakis, G. E.) A variational inequality approach to thermoviscoelasticity with monotone unilateral boundaries of kinematical and thermal type. (English summary) **2005e:74041**
Gavrilov, Serge (*with* Herman, G. C.) On the oscillation of a punch moving on free surface of an elastic half-space. (English summary) (*see* **2005b:00020**)
— (*with* Herman, G. C.) Oscillation of a punch moving on the free surface of an elastic half space. (English summary) **2005k:74063**
Gogolauri, L. On one mixed type contact problem for an elastic anisotropic half-plane. (English and Georgian summaries) **2005f:74060**
Han, Weimin *see* **Fernández García, José Ramón et al.**
Haslinger, Jaroslav (*with* Kučera, Radek; Dostál, Zdeněk) An algorithm for the numerical realization of 3D contact problems with Coulomb friction. (English summary) **2005f:74061**
— (*with* Vlach, Oldřich) Signorini problem with a solution dependent coefficient of friction (model with given friction): approximation and numerical realization. (English summary) **2005m:74070**
Hemici, Nacerdine (*with* Matei, Andaluzia) A frictionless contact problem with adhesion between two elastic bodies. (English summary) **2005b:74087**
Herman, G. C. *see* **Gavrilov, Serge, 2005k:74063** *and* (**2005b:00020**)

Hild, Patrick (*with* Sakki, Nour-Dine) On solution multiplicity in friction problems with normal compliance. (English summary) **2005f:74062**
Hippmann, Gerhard An algorithm for compliant contact between complexly shaped bodies. (English summary)
Hlaváček, Ivan Unilateral contact with Coulomb friction and uncertain input data. (English summary) **2005b:74088**
Hoarau-Mantel, Thierry-Vincent *see* **Sofonea, Mircea et al., 2005c:74060** *and* **Barboteu, Mikaël et al., 2005i:74059**
Hüeber, S. (*with* Wohlmuth, Barbara I.) A primal-dual active set strategy for non-linear multibody contact problems. (English summary) **2005m:74071**
Jones, Reese E. Models for contact loading and unloading of a rough surface. (English summary)
Klarbring, Anders Stability and critical points in large displacement frictionless contact problems. (English summary) **2005b:74089**
Kozhevnikov, I. F. *see* **Vil'ke, V. G., 2005m:74074**
Kučera, Radek *see* **Haslinger, Jaroslav et al., 2005f:74061**
Kumar, Vijay[5] *see* **Song, Peng et al., 2005b:74094**
Kuttler, Kenneth L. (*with* Shillor, Meir) Dynamic contact with Signorini's condition and slip rate dependent friction. (English summary) **2005d:74026**
— (*with* Shillor, Meir) Regularity of solutions to a dynamic frictionless contact problem with normal compliance. (English summary) **2005h:74052**
— *see also* **Bajkowski, J. et al., 2005a:74072**
Laursen, Tod A. *see* **Puso, Michael A.**
Liolios, Asterios A. *see* **Angelov, Todor A., 2005m:74068**
Matei, Andaluzia Antiplane contact problems for viscoelastic materials. (English summary) **2005b:74090**
— *see also* **Hemici, Nacerdine, 2005b:74087**
Migórski, Stanisław (*with* Ochal, Anna) Hemivariational inequality for viscoelastic contact problem with slip-dependent friction. (English summary) **2005k:74064**
— *see also* **Denkowski, Zdzisław, 2005m:74069**
Mijar, A. R. (*with* Arora, J. S.) An augmented Lagrangian optimization method for contact analysis problems. I. Formulation and algorithm. (English summary) **2005e:74042**
— (*with* Arora, J. S.) An augmented Lagrangian optimization method for contact analysis problems. II. Numerical evaluation. (English summary) **2005e:74043**
Monegato, Giovanni (*with* Strozzi, Antonio) On the contact reaction in a solid circular plate simply supported along an edge arc and deflected by a central transverse concentrated force. (English summary) **2005m:74072**
Nackenhorst, U. The ALE-formulation of bodies in rolling contact theoretical foundations and finite element approach. (English summary) **2005e:74044**
Ochal, Anna *see* **Migórski, Stanisław, 2005k:74064**
Pang, Jong-Shi *see* **Song, Peng et al., 2005b:74094**
Paumier, Jean-Claude Contact unilatéral des structures minces: modélisation, calcul et applications. (French summary) [Unilateral contact of thin structures: modelling, calculations and applications] **2005b:74091**
Peigney, Michaël Simulating wear under cyclic loading by a minimization approach. (English summary) **2005f:74063**
Pīskozub, Ĭ. Z. *see* **Sulim, G. T.**
Pompei, Anna (*with* Rigano, A.; Sumbatyan, Mezhlum A.) Contact problem for a rectangular punch on the porous elastic half-space. (English summary)
Ponthot, J.-P. *see* **Boman, R.**
Pozharskiĭ, D. A. *see* **Aleksandrov, Viktor Mikhaĭlovich, 2005c:74057**
Puso, Michael A. (*with* Laursen, Tod A.) A mortar segment-to-segment frictional contact method for large deformations. (English summary)
Rassineux, Alain *see* **Chamoret, D. et al.**
Renouf, Mathieu (*with* Alart, Pierre) Conjugate gradient type algorithms for frictional multi-contact problems: applications to granular materials. (English summary) **2005m:74073**
Rigano, A. *see* **Pompei, Anna et al.**
Rodríguez-Arós, A. (*with* Viaño Rey, Juan M.; Sofonea, Mircea) A class of evolutionary variational inequalities with Volterra-type term. (English summary) **2005b:74092**
— *see also* **Sofonea, Mircea et al., 2005c:74060**
Sabil, J. *see* **Bayada, Guy et al., 2005d:74024**
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Sakki, Nour-Dine *see* **Hild, Patrick, 2005f:74062**
Sassi, Taoufik *see* **Bayada, Guy et al., 2005d:74024**
Savenkov, V. A. A dynamic contact problem for an orthotropic strip. (Russian. English and Russian summaries)
Scarella, Gilles *see* **Cocou, Marius, 2005c:74059**
Shillor, Meir (*with* Sofonea, Mircea; Telega, J. Joachim) Quasistatic viscoelastic contact with friction and wear diffusion. (English summary) **2005b:74093**
— *see also* **Bajkowski, J. et al., 2005a:74072**; **Kuttler, Kenneth L., 2005d:74026**; **2005h:74052** *and* **Andrews, Kevin T. et al., 2005g:74087**
Sofonea, Mircea (*with* Essoufi, El-Hassan) Quasistatic frictional contact of a viscoelastic piezoelectric body. (English summary) **2005j:74044**
— (*with* Hoarau-Mantel, Thierry-Vincent; Viaño Rey, Juan M.; Rodríguez-Arós, A.) Creep formulation of a quasistatic frictional contact problem. (English summary) **2005c:74060**
— (*with* Essoufi, El-Hassan) A piezoelectric contact problem with slip dependent coefficient of friction. (English and Lithuanian summaries) **2005g:74090**
— *see also* **Rodríguez-Arós, A. et al., 2005b:74092**; **Shillor, Meir et al., 2005b:74093**; **Fernández García, José Ramón et al., 2005e:74040** *and* **Barboteu, Mikaël et al., 2005i:74059**
Song, Peng (*with* Pang, Jong-Shi; Kumar, Vijay[5]) A semi-implicit time-stepping model for frictional compliant contact problems. (English summary) **2005b:74094**
Stavroulakis, G. E. *see* **Foutsitzi, G., 2005e:74041**
Steigmann, David J. Puncturing a thin elastic sheet. (English summary) **2005f:74064**
Strozzi, Antonio *see* **Monegato, Giovanni, 2005m:74072**
Sulim, G. T. (*with* Pīskozub, Ĭ. Z.) Conditions for the contact interaction of bodies (a survey). (Ukrainian. English, Russian and Ukrainian summaries)
Sumbatyan, Mezhlum A. *see* **Pompei, Anna et al.**
Telega, J. Joachim *see* **Shillor, Meir et al., 2005b:74093**
Ulĭtko, A. F. *see* **Zhupanska, O. I.**
Vanerian, L. *see* **Andrews, Kevin T. et al., 2005g:74087**
VanHouten, T. *see* **Andrews, Kevin T. et al., 2005g:74087**
Viaño Rey, Juan M. *see* **Rodríguez-Arós, A. et al., 2005b:74092** *and* **Sofonea, Mircea et al., 2005c:74060**
Vil'ke, V. G. (*with* Kozhevnikov, I. F.) The rolling of a wheel with a reinforced tire on a plane with slippage. (Russian. Russian summary) **2005m:74074**
Vlach, Oldřich *see* **Haslinger, Jaroslav, 2005m:74070**
Wohlmuth, Barbara I. *see* **Eck, Christof, 2005d:74025** *and* **Hüeber, S., 2005m:74071**
Zelentsov, V. B. On nonstationary dynamic contact problems in the theory of elasticity with varying width of the contact area. (Russian. Russian summary) **2005d:74027**
Zhupanska, O. I. (*with* Ulĭtko, A. F.) Contact with friction of a rigid cylinder with an elastic half-space. (English summary)

Items with secondary classifications in 74M15

Adams, George G. (*with* Barber, James R.; Ciavarella, M.; Rice, James R.) A paradox in sliding contact problems with friction. (English summary) **2005m:74067**
Adams, Mark F. Algebraic multigrid methods for constrained linear systems with applications to contact problems in solid mechanics. (English summary) **2005d:65038**
Addou, Ahmed (*with* Lidouh, A.) Modélisation d'un problème de contact à trois corps par homogénéisation de frontière. (English and French summaries) [Modelling a three-body contact problem by boundary homogenization] **2005m:35016**
Aggoune, Wassila (*with* Zahrouni, Hamid; Potier-Ferry, Michel) High-order prediction-correction algorithms for unilateral contact problems. (English summary)
Ait Mansour, Mohamed *see* **Sofonea, Mircea, 2005f:49036**
Alart, Pierre (*with* Pagano, S.) DC solutions of postbuckling problems. (English summary) **2005f:74036**
— *see also* **Renouf, Mathieu et al.**
Ballard, Patrick (*with* Basseville, Stéphanie) Existence and uniqueness for dynamical unilateral contact with Coulomb friction: a model problem. (English summary) **2005k:34035**
Baniotopoulos, Charalambos C. (*with* Haslinger, Jaroslav; Morávková, Zuzana) Mathematical modeling of delamination and nonmonotone friction problems by hemivariational inequalities. (English summary) **2005k:74060**
Barbarin, Serge *see* **Raous, Michel et al., 2005b:74125**
Barber, James R. *see* **Adams, George G. et al., 2005m:74067** *and* **Ciavarella, M.**
Barboteu, Mikaël *see* **Hoarau-Mantel, Thierry-Vincent**
Basseville, Stéphanie *see* **Ballard, Patrick, 2005k:34035**
Bécache, Eliane (*with* Joly, Patrick; Scarella, Gilles) A fictitious domain method for a unilateral contact problem. (*see* **2005b:00020**)
Belhachmi, Zakaria (*with* Tahir, Souad) Mixed finite element discretization of some variational inequalities arising in elasticity problems in domains with cracks. (English summary) **2005j:65135**
Ben Belgacem, Faker (*with* Renard, Yves; Slimane, Leila) On mixed methods for Signorini problems. (English summary)
Bendali, Abderrahmane *see* **Slimane, Leila et al., 2005f:65157**
Bień, M. Existence of global weak solutions for coupled thermoelasticity with Barber's heat exchange condition. (English summary) **2005e:74011**
Bock, Igor (*with* Lovíšek, Ján) On a contact problem for a viscoelastic von Kármán plate and its semidiscretization. (English summary) **2005k:49020**
Brearley, Maurice N. (*with* de Mestre, Neville J.) Rolling of a rigid ball on a horizontal deformable surface. (English summary) **2005e:70006**
Bukhari, Abdul-Fattah K. On dynamic problem and integral equation. (English summary) **2005g:74061**
Chen, Yi Ming *see* **Hao, Ya Juan et al.**
Chiroux, Robert C. (*with* Foster, Winfred A., Jr.; Johnson, Clarence E.; Shoop, S. A.; Raper, R. L.) Three-dimensional finite element analysis of soil interaction with a rigid wheel.
Ciavarella, M. (*with* Barber, James R.) Stability of thermoelastic contact for a rectangular elastic block sliding against a rigid wall. (English summary)
— *see also* **Adams, George G. et al., 2005m:74067**
Coleman, Bernard D. (*with* Swigon, David) Theory of self-contact in Kirchhoff rods with applications to supercoiling of knotted and unknotted DNA plasmids. (English summary) **2005d:74016**
Copetti, Maria I. M. Numerical approximation of dynamic deformations of a thermoviscoelastic rod against an elastic obstacle. (English summary) **2005e:74030**
De Schepper, Hennie Finite element approximation of a 2D-1D contact eigenvalue problem. (English summary) **2005f:65147**
Dobiáš, Jiří *see* **Dostál, Zdeněk et al., 2005g:74103**
Dostál, Zdeněk (*with* Horák, David; Kučera, Radek; Vondrák, Vít; Haslinger, Jaroslav; Dobiáš, Jiří; Pták, Svatopluk) FETI based algorithms for contact problems: scalability, large displacements and 3D Coulomb friction. (English summary) **2005g:74103**
Dubois, Frédéric *see* **Renouf, Mathieu et al.**
Duindam, Vincent *see* **Stramigioli, Stefano, 2005k:70005**
Dunham, Eric M. Dissipative interface waves and the transient response of a three-dimensional sliding interface with Coulomb friction. (English summary) **2005g:74065**
Elaguine, Denis *see* **Storåkers, Bertil**
El-Zafrany, A. *see* **Vlachogiannis, I. V., (2005d:65006)**
Feng, Zhi-Qiang *see* **Hjiaj, Mohammed et al., 2005a:74087** *and* **2005f:74058**
Fernández García, José Ramón *see* **Kuttler, Kenneth L. et al., 2005e:74024**
Foster, Winfred A., Jr. *see* **Chiroux, Robert C. et al.**
Gao, Hong Ling *see* **Hao, Ya Juan et al.**
Gomilko, A. M. (*with* Savitskii, O. A.; Trofimchuk, A. N.) Asymptotic solution of a harmonic contact problem for a permeable stamp on a liquid saturated base. (English and Ukrainian summaries) **2005e:74015**
Hao, Ya Juan (*with* Chen, Yi Ming; Zhang, Li Na; Gao, Hong Ling; Yang, Ai Min[1]) A boundary variational inequality for the Signorini contact problem. (Chinese. English and Chinese summaries)
Haslinger, Jaroslav (*with* Sassi, Taoufik) Mixed finite element approximation of 3D

contact problems with given friction: error analysis and numerical realization. (English summary) **2005g:65169**
— *see also* **Dostál, Zdeněk et al., 2005g:74103** *and* **Baniotopoulos, Charalambos C. et al., 2005k:74060**
Hassani, Riad (*with* Hild, Patrick; Ionescu, Ioan R.) Sufficient conditions of non-uniqueness for the Coulomb friction problem. (English summary) **2005a:74070**
Hild, Patrick *see* **Hassani, Riad et al., 2005a:74070**
Hjiaj, Mohammed (*with* Feng, Zhi-Qiang; de Saxcé, Géry; Mróz, Z.) On the modelling of complex anisotropic frictional contact laws. (English summary) **2005f:74058**
— (*with* Feng, Zhi-Qiang; de Saxcé, Géry; Mróz, Z.) Three-dimensional finite element computations for frictional contact problems with non-associated sliding rule. (English summary) **2005a:74087**
Hoarau-Mantel, Thierry-Vincent (*with* Barboteu, Mikaël) Un schéma de prédiction-correction pour un problème hypervisco-élastique en grandes déformations avec contact et frottement. (French summary) [A prediction-correction scheme for a large deformation hyperviscoelastic contact problem with friction]
Holzapfel, Gerhard A. *see* **Stadler, Michael, 2005a:74090**
Horák, David *see* **Dostál, Zdeněk et al., 2005g:74103**
Hüeber, S. (*with* Mair, Michael; Wohlmuth, Barbara I.) A priori error estimates and an inexact primal-dual active set strategy for linear and quadratic finite elements applied to multibody contact problems. (English summary) **2005m:74094**
Ionescu, Ioan R. *see* **Hassani, Riad et al., 2005a:74070**
Iontcheva, Ana H. (*with* Vassilevski, Panayot S.) Monotone multigrid methods based on element agglomeration coarsening away from the contact boundary for the Signorini's problem. (English summary) **2005j:65165**
Johnson, Clarence E. *see* **Chiroux, Robert C. et al.**
Joly, Patrick *see* **Bécache, Eliane et al., (2005b:00020)**
Keum, Bangyong (*with* Liu, Yi Jun[1]) Analysis of 3-D frictional contact mechanics problems by a boundary element method. (English summary)
Kozhevnikov, I. F. *see* **Vil'ke, V. G.**
Krasucki, Francoise (*with* Münch, Arnaud; Ousset, Yves) Mathematical analysis of nonlinear bonded joint models. (English summary) **2005b:74022**
Kučera, Radek *see* **Dostál, Zdeněk et al., 2005g:74103**
Kuttler, Kenneth L. (*with* Shillor, Meir; Fernández García, José Ramón) Existence for a thermoviscoelastic beam model of brakes. (English summary) **2005e:74024**
Laborde, Patrick *see* **Slimane, Leila et al., 2005f:65157**
Laursen, Tod A. *see* **Yang, Bin[5] et al.**
Lebedev, Leonid P. (*with* Neĭmark, A. B.) An existence theorem for a shallow nonlinear shell with an obstacle. (Russian) **2005m:74062**
Lee, Kwok-Hong *see* **Xuan, Zhao Cheng, 2005a:90179**
Leszczynski, Jacek S. Computer simulations of multiparticle-contacts dynamics. (English summary) (*see* **2005c:00014**)
Lidouh, A. *see* **Addou, Ahmed, 2005m:35016**
Liu, Deyi *see* **Yu, Chun Xiao et al.**
Liu, Yi Jun[1] *see* **Keum, Bangyong**
Lovíšek, Ján *see* **Bock, Igor, 2005k:49020**
Mair, Michael *see* **Hüeber, S. et al., 2005m:74094**
Maischak, Matthias (*with* Stephan, Ernst P.) A FEM-BEM coupling method for a nonlinear transmission problem modelling Coulomb friction contact. (English summary) **2005i:74075**
Makinouchi, A. *see* **Xing, Huilin et al., (2005g:00014)**
Martins, J. A. C. (*with* Pinto da Costa, A.) Finite dimensional frictional contact quasi-static rate and evolution problems revisited. (English summary) **2005h:74050**
Meng, Xiaonong *see* **Yang, Bin[5] et al.**
Merouani, Boubakeur *see* **Selmani, Mohamed et al., 2005k:74061**
de Mestre, Neville J. *see* **Brearley, Maurice N., 2005e:70006**
Mohammadi, S. ★ Discontinuum mechanics. **2005g:74104**
Mora, Peter *see* **Xing, Huilin et al., (2005g:00014)**
Morávková, Zuzana *see* **Baniotopoulos, Charalambos C. et al., 2005k:74060**
Motreanu, Dumitru Minimax theory, duality and applications. (English summary) **2005i:49008**
Mróz, Z. *see* **Hjiaj, Mohammed et al., 2005a:74087** *and* **2005f:74058**
Münch, Arnaud *see* **Krasucki, Francoise et al., 2005b:74022**
Namm, R. V. *see* **Vikhtenko, È. M., 2005b:49032**
Natroshvili, David (*with* Wendland, Wolfgang L.) Boundary variational inequalities in the theory of interface cracks. (English summary) **2005k:35160**
Neĭmark, A. B. *see* **Lebedev, Leonid P., 2005m:74062**
Nguyen Quoc Son On friction-induced instabilities and vibrations. (English summary) **2005i:74038**
Ousset, Yves *see* **Krasucki, Francoise et al., 2005b:74022**
Pagano, S. *see* **Alart, Pierre, 2005f:74036**
Pattillo, P. D., II (*with* Tortorelli, Daniel A.) A contact algorithm for the Signorini problem using space-time finite elements. (English summary) **2005a:74088**
Pfeiffer, Friedrich G. Unilateral problems of dynamics. (English summary) **2005b:70015**
Pinto da Costa, A. *see* **Martins, J. A. C., 2005h:74050**
Polis, Michael P. *see* **Sivergina, Irina F., 2005i:93016**
Pop, Nicolae On the convergence of the solution of the quasi-static contact problems with friction using the Uzawa type algorithm. (English summary) **2005h:74022**
— (*with* Zelina, Ioana) A quadratic programming method for saddle point formulations in contact problems with friction. (English summary)
Potier-Ferry, Michel *see* **Aggoune, Wassila et al.**
Procházka, Petr Disconnections in fiber reinforced concretes. (English summary) (*see* **2005d:65006**)
Pták, Svatopluk *see* **Dostál, Zdeněk et al., 2005g:74103**
Raous, Michel (*with* Barbarin, Serge; Vola, Didier) Numerical characterization and computation of dynamic instabilities for frictional contact problems. (English summary) **2005b:74125**
Raper, R. L. *see* **Chiroux, Robert C. et al.**
Renard, Yves *see* **Slimane, Leila, 2005e:65080** *and* **Ben Belgacem, Faker et al.**
Renouf, Mathieu (*with* Dubois, Frédéric; Alart, Pierre) A parallel version of the non smooth contact dynamics algorithm applied to the simulation of granular media. (English summary)
Rice, James R. *see* **Adams, George G. et al., 2005m:74067**
Rodríguez-Arós, A. (*with* Sofonea, Mircea; Viaño Rey, Juan M.) Numerical analysis of a class of variational inequalities with integral term. (English summary) **2005g:65093**
Sassi, Taoufik *see* **Haslinger, Jaroslav, 2005g:65169**
Savitskii, O. A. *see* **Gomilko, A. M. et al., 2005e:74015**
de Saxcé, Géry *see* **Hjiaj, Mohammed et al., 2005a:74087** *and* **2005f:74058**
Scarella, Gilles *see* **Bécache, Eliane et al., (2005b:00020)**
Schoof, Christian The effect of cavitation on glacier sliding. (English summary) **2005i:86019**
Selmani, Lynda *see* **Selmani, Mohamed et al., 2005k:74061**
Selmani, Mohamed (*with* Merouani, Boubakeur; Selmani, Lynda) Analysis of a class of frictional contact problems for the Bingham fluid. (English summary) **2005k:74061**
Shen, Guangxian *see* **Yu, Chun Xiao et al.**
Shillor, Meir *see* **Kuttler, Kenneth L. et al., 2005e:74024**
Shoop, S. A. *see* **Chiroux, Robert C. et al.**
Sivergina, Irina F. (*with* Polis, Michael P.) Exact null controllability of a nonlinear thermoelastic contact problem. (English summary) **2005i:93016**
Slimane, Leila (*with* Renard, Yves) The treatment of the locking phenomenon for a general class of variational inequalities. (English summary) **2005e:65080**
— (*with* Bendali, Abderrahmane; Laborde, Patrick) Mixed formulations for a class of variational inequalities. (English summary) **2005f:65157**
— *see also* **Ben Belgacem, Faker et al.**
Sofonea, Mircea (*with* Ait Mansour, Mohamed) A convergence result for evolutionary variational inequalities and applications to antiplane frictional contact problems. (English summary) **2005f:49036**
— *see also* **Rodríguez-Arós, A. et al., 2005g:65093**
Stadler, Michael (*with* Holzapfel, Gerhard A.) Subdivision schemes for smooth contact surfaces of arbitrary mesh topology in 3D. (English summary) **2005a:74090**
Stephan, Ernst P. *see* **Maischak, Matthias, 2005i:74075**
Storåkers, Bertil (*with* Elaguine, Denis) Hertz contact at finite friction and arbitrary profiles. (English summary)
Stramigioli, Stefano Port-Hamiltonian modeling of spatial compliant contacts. (English summary) (*see* **2005b:93007**)
— (*with* Duindam, Vincent) Port based modeling of spatial visco-elastic contacts. (English summary) **2005k:70005**
Swigon, David *see* **Coleman, Bernard D., 2005d:74016**
Taha, M. H. Vibrations of non-uniform shear beams in elastic foundation. (English summary)
Tahir, Souad *see* **Belhachmi, Zakaria, 2005j:65135**
Tortorelli, Daniel A. *see* **Pattillo, P. D., II, 2005a:74088**
Trofimchuk, A. N. *see* **Gomilko, A. M. et al., 2005e:74015**
Vassilevski, Panayot S. *see* **Iontcheva, Ana H., 2005j:65165**
Viaño Rey, Juan M. *see* **Rodríguez-Arós, A. et al., 2005g:65093**
Vikhtenko, È. M. (*with* Namm, R. V.) A method for solving semi-coercive variational inequalities, based on the method of iterative proximal regularization. (Russian) **2005b:49032**
Vil'ke, V. G. (*with* Kozhevnikov, I. F.) On a model of a wheel with a reinforced tire (Russian. Russian summary)
Vlachogiannis, I. V. (*with* El-Zafrany, A.) Boundary element analysis of elastic frictional contact problems with finite strains. (English summary) (*see* **2005d:65006**)
Vola, Didier *see* **Raous, Michel et al., 2005b:74125**
Vondrák, Vít *see* **Dostál, Zdeněk et al., 2005g:74103**
Wendland, Wolfgang L. *see* **Natroshvili, David, 2005k:35160**
Wohlmuth, Barbara I. *see* **Hüeber, S. et al., 2005m:74094**
Xing, Huilin (*with* Mora, Peter; Makinouchi, A.) Finite element simulation of stress evolution in a frictional contact system. (English summary) (*see* **2005g:00014**)
Xuan, Zhao Cheng (*with* Lee, Kwok-Hong) Surrogate duality based method for contact problems. (English summary) **2005a:90179**
Xuedao, S. The new 3-D contact boundary element method of load peculiarity in a roller bearing. (English summary) (*see* **2005d:65006**)
Yang, Ai Min[1] *see* **Hao, Ya Juan et al.**
Yang, Bin[5] (*with* Laursen, Tod A.; Meng, Xiaonong) Two dimensional mortar contact methods for large deformation frictional sliding. (English summary)
Yu, Chun Xiao (*with* Shen, Guangxian; Liu, Deyi) Mathematical programming solution for the frictional contact multipole BEM. (English summary)
Zahrouni, Hamid *see* **Aggoune, Wassila et al.**
Zelina, Ioana *see* **Pop, Nicolae**
Zhang, Li Na *see* **Hao, Ya Juan et al.**

74M20 Impact

Bonetti, Elena (*with* Frémond, Michel) Collisions and fracture. (English summary) **2005i:74060**
Frémond, Michel *see* **Bonetti, Elena, 2005i:74060**
Kharab, A. (*with* Kharab, R.) Numerical investigation of the penetration of a rigid body into the soil. (English summary) **2005a:74073**
Kharab, R. *see* **Kharab, A., 2005a:74073**
Knops, R. J. (*with* Villaggio, Piero) An approximate treatment of blunt body impact (English summary) **2005b:74095**
Villaggio, Piero *see* **Knops, R. J., 2005b:74095**

Items with secondary classifications in 74M20

Bonetti, Elena (*with* Frémond, Michel) Collisions and fractures: a model in SBD. (English and Italian summaries) **2005k:74070**
Chernyĭ, G. G. *see* **Golubyatnikov, A. N. et al., 2005m:74028**
Chiroux, Robert C. *see* **Foster, Winfred A., Jr. et al.**
Dimentberg, M. F. (*with* Iourtchenko, D. V.) Random vibrations with impacts: a review. (English summary) **2005c:74038**

Foster, Winfred A., Jr. (*with* Johnson, Clarence E.; Chiroux, Robert C.; Way, Tom R.) Finite element simulation of cone penetration. (English summary)
Frémond, Michel *see* **Bonetti, Elena, 2005k:74070**
Golubyatnikov, A. N. (*with* Zonenko, S. I.; Chernyĭ, G. G.) On the cumulative effect under large deformations of a shell under the action of unilateral pressure. (Russian) **2005m:74028**
Iourtchenko, D. V. *see* **Dimentberg, M. F., 2005c:74038**
Johnson, Clarence E. *see* **Foster, Winfred A., Jr. et al.**
Kovaleva, A. S. Stochastic dynamics of flexible systems with motion limiters. (English summary) **2005c:74039**
Mota, A. *see* **Yang, Qiang[1] et al., 2005i:74076**
Ortiz, Michael *see* **Yang, Qiang[1] et al., 2005i:74076**
Way, Tom R. *see* **Foster, Winfred A., Jr. et al.**
Yang, Qiang[1] (*with* Mota, A.; Ortiz, Michael) A class of variational strain-localization finite elements. (English summary) **2005i:74076**
Zonenko, S. I. *see* **Golubyatnikov, A. N. et al., 2005m:74028**

74M25 Micromechanics

Items with secondary classifications in 74M25

Aleshin, Vladislav V. (*with* Van Den Abeele, K.) Micro-potential model for stress-strain hysteresis of micro-cracked materials. (English summary) **2005i:74071**
Benveniste, Y. *see* **He, Qi-Chang, 2005e:74013**
Bucataru, Ioan *see* **Epstein, Marcelo, 2005d:74009**
Chiriţă, Stan *see* **Ciarletta, Michele et al., 2005k:74040**
Ciarletta, Michele (*with* Chiriţă, Stan; Passarella, Francesca) Some results on the spatial behaviour in linear porous elasticity. (English summary) **2005k:74040**
Epstein, Marcelo (*with* Bucataru, Ioan) Continuous distributions of dislocations in bodies with microstructure. (English summary) **2005d:74009**
Gardiner, B. S. *see* **Tordesillas, A. et al., 2005g:74031**
Gürses, E. *see* **Miehe, Christian et al., 2005f:74020**
He, Qi-Chang (*with* Benveniste, Y.) Exactly solvable spherically anisotropic thermoelastic microstructures. (English summary) **2005e:74013**
Huang, Mojia (*with* Man, Chi-Sing) Constitutive relation of elastic polycrystal with quadratic texture dependence. (English summary) **2005b:74030**
Lambrecht, Matthias *see* **Miehe, Christian et al., 2005f:74020**
Lenci, Stefano Elastic and damage longitudinal shear behavior of highly concentrated long fiber composites. (English summary) **2005g:74034**
Man, Chi-Sing *see* **Huang, Mojia, 2005b:74030**
Miehe, Christian (*with* Lambrecht, Matthias; Gürses, E.) Analysis of material instabilities in inelastic solids by incremental energy minimization and relaxation methods: evolving deformation microstructures in finite plasticity. (English summary) **2005f:74020**
Passarella, Francesca *see* **Ciarletta, Michele et al., 2005k:74040**
Rakotomanana, L. R. ★ A geometric approach to thermomechanics of dissipating continua. **2005h:74004**
Tordesillas, A. (*with* Walsh, S. D. C.; Gardiner, B. S.) Bridging the length scales: micromechanics of granular media. (English summary) **2005g:74031**
Van Den Abeele, K. *see* **Aleshin, Vladislav V., 2005i:74071**
Walsh, S. D. C. *see* **Tordesillas, A. et al., 2005g:74031**

74Nxx Phase transformations in solids [see also 74A50, 80Axx, 82B26, 82C26]

Items with secondary classifications in 74Nxx

Rajagopal, Kumbakonam (*with* Srinivasa, A. R.) On the thermomechanics of materials that have multiple natural configurations. II. Twinning and solid to solid phase transformation. (English summary) **2005f:74006**
Srinivasa, A. R. *see* **Rajagopal, Kumbakonam, 2005f:74006**

74N05 Crystals

Ahluwalia, Rajeev *see* **Albers, R. C. et al., 2005m:74075**
Albers, R. C. (*with* Ahluwalia, Rajeev; Lookman, Turab; Saxena, Avadh) Modeling solid-solid phase transformations: from single crystal to polycrystal behavior. (English summary) **2005m:74075**
Bruno, Oscar P. *see* **Goldsztein, Guillermo H., 2005b:74096**
Burger, Martin (*with* Capasso, Vincenzo; Micheletti, Alessandra) Optimal control of polymer morphologies. (English summary) **2005m:74076**
Capasso, Vincenzo *see* **Burger, Martin et al., 2005m:74076**
Conti, Sergio (*with* Zanzotto, Giovanni) A variational model for reconstructive phase transformations in crystals, and their relation to dislocations and plasticity. (English summary) **2005d:74028**
Goldsztein, Guillermo H. (*with* Bruno, Oscar P.) A fast algorithm for the simulation of polycrystalline misfits. II. Martensitic transformations in three space dimensions. (English summary) **2005b:74096**
Lookman, Turab *see* **Albers, R. C. et al., 2005m:74075**
Micheletti, Alessandra *see* **Burger, Martin et al., 2005m:74076**
Ohtsuka, Takeshi A level set method for spiral crystal growth. (English summary) **2005b:74097**
Pitteri, Mario On certain weak phase transformations in multilattices. (English summary) **2005j:74045**
Saxena, Avadh *see* **Albers, R. C. et al., 2005m:74075**
Shirakawa, Ken (*with* Stefanelli, Ulisse) Structure result for steady-state solutions of a one-dimensional Frémond model of SMA. (English summary) **2005d:74029**
Stefanelli, Ulisse *see* **Shirakawa, Ken, 2005d:74029**
Ushijima, Takeo K. (*with* Yazaki, Shigetoshi) Convergence of a crystalline approximation for an area-preserving motion. (English summary) **2005g:74091**
Yazaki, Shigetoshi *see* **Ushijima, Takeo K., 2005g:74091**
Zanzotto, Giovanni *see* **Conti, Sergio, 2005d:74028**
Zimmer, Johannes Stored energy functions for phase transitions in crystals. (English summary) **2005c:74061**

Items with secondary classifications in 74N05

Alvarez, Olivier (*with* Hoch, Philippe; Le Bouar, Yann; Monneau, Régis) Résolution en temps court d'une équation de Hamilton-Jacobi non locale décrivant la dynamique d'une dislocation. (English and French summaries) [Small-time solvability of a non-local Hamilton-Jacobi equation describing dislocation dynamics] **2005b:35021**
Anand, Lallit Single-crystal elasto-viscoplasticity: application to texture evolution in polycrystalline metals at large strains. (English summary) **2005g:74023**
Armano, Tiziana (*with* Cermelli, Paolo) Noncrystallographic motion of a dislocation as a fine mixture of rectilinear paths. (English summary) **2005j:74011**
Boutat, Mohammed (*with* D'Angelo, Y.; Hilout, S.; Lods, V.) Existence and finite-time blow-up for the solution to a thin-film surface evolution problem. (English summary) **2005b:74055**
Carstensen, Carsten (*with* Dolzmann, Georg) Time-space discretization of the nonlinear hyperbolic system $u_{tt} = \operatorname{div}(\sigma(Du) + Du_t)$. (English summary) **2005e:65140**
Cermelli, Paolo *see* **Armano, Tiziana, 2005j:74011**
Cho, Joon-Yeoun *see* **Idesman, A. V. et al., 2005h:74060**
D'Angelo, Y. *see* **Boutat, Mohammed et al., 2005b:74055**
Dolzmann, Georg *see* **Carstensen, Carsten, 2005e:65140**
E, Wei-nan (*with* Ming, Ping-bing) Analysis of multiscale methods. (English summary) **2005d:65188**
Ericksen, J. L. On the theory of rotation twins in crystal multilattices. (English summary) **2005e:74007**
Ferone, Adele (*with* Volpicelli, Roberta) Convex rearrangement: equality cases in the Pólya-Szegö inequality. (English summary) **2005g:46069**
Giga, Mi-Ho (*with* Giga, Yoshikazu) A PDE approach for motion of phase-boundaries by a singular interfacial energy. **2005e:35032**
Giga, Yoshikazu (*with* Rybka, Piotr) Existence of self-similar evolution of crystals grown from supersaturated vapor. (English summary) **2005i:35296**
— (*with* Rybka, Piotr) Stability of facets of self-similar motion of a crystal. (English summary) **2005m:35316**
— *see also* **Giga, Mi-Ho, 2005e:35032**
Hilout, S. *see* **Boutat, Mohammed et al., 2005b:74055**
Hoch, Philippe *see* **Alvarez, Olivier et al., 2005b:35021**
Idesman, A. V. (*with* Levitas, V. I.; Preston, D. L.; Cho, Joon-Yeoun) Finite element simulations of martensitic phase transitions and microstructures based on a strain softening model. (English summary) **2005h:74060**
Ishiwata, Tetsuya (*with* Ushijima, Takeo K.; Yagisita, Hiroki; Yazaki, Shigetoshi) Two examples of nonconvex self-similar solution curves for a crystalline curvature flow. (English summary) **2005f:53107**
Kresse, O. (*with* Truskinovsky, Lev) Lattice friction for crystalline defects: from dislocations to cracks. (English summary) **2005e:74008**
Le Bouar, Yann *see* **Alvarez, Olivier et al., 2005b:35021**
Levitas, V. I. *see* **Idesman, A. V. et al., 2005h:74060**
Li, Zhiping Multiscale modelling and computation of microstructures in multi-well problems. (English summary) **2005g:74093**
Lods, V. *see* **Boutat, Mohammed et al., 2005b:74055**
Melnik, Roderick V. N. *see* **Wang, Linxiang, (2005b:00020)**
Ming, Ping-bing *see* **E, Wei-nan, 2005d:65188**
Monneau, Régis *see* **Alvarez, Olivier et al., 2005b:35021**
Ortiz, Michael *see* **Sivakumar, Srinivasan M., 2005g:74030**
Preston, D. L. *see* **Idesman, A. V. et al., 2005h:74060**
Rigot, Séverine Quasiminimal crystals with a volume constraint and uniform rectifiability. (English and French summaries) **2005a:49080**
Rybka, Piotr *see* **Giga, Yoshikazu, 2005i:35296** *and* **2005m:35316**
Sivakumar, Srinivasan M. (*with* Ortiz, Michael) Microstructure evolution in the equal channel angular extrusion process. (English summary) **2005g:74030**
Su, Y. (*with* Weng, G. J.) The shift of Curie temperature and evolution of ferroelectric domain in ferroelectric crystals. (English summary)
Truskinovsky, Lev *see* **Kresse, O., 2005e:74008**
Ushijima, Takeo K. *see* **Ishiwata, Tetsuya et al., 2005f:53107**
Volpicelli, Roberta *see* **Ferone, Adele, 2005g:46069**
Wang, Linxiang (*with* Melnik, Roderick V. N.) Nonlinear coupled thermomechanical waves: modelling shear type phase transformation in shape memory alloys. (English summary) (*see* **2005b:00020**)
Weng, G. J. *see* **Su, Y.**
Yagisita, Hiroki *see* **Ishiwata, Tetsuya et al., 2005f:53107**
Yazaki, Shigetoshi *see* **Ishiwata, Tetsuya et al., 2005f:53107**

74N10 Displacive transformations

Le Dret, Hervé (*with* Meunier, Nicolas) Modeling heterogeneous martensitic wires. (English summary) **2005m:74077**
Meunier, Nicolas *see* **Le Dret, Hervé, 2005m:74077**

Items with secondary classifications in 74N10

Bělík, Pavel (*with* Luskin, Mitchell) A computational model for martensitic thin films with compositional fluctuation. (English summary) **2005i:74073**
Eremeev, V. A. (*with* Pietraszkiewicz, Wojciech) The nonlinear theory of elastic shells and phase transitions. (English summary) **2005a:74063**
Luskin, Mitchell *see* **Bělík, Pavel, 2005i:74073**
Pietraszkiewicz, Wojciech *see* **Eremeev, V. A., 2005a:74063**
Stefanelli, Ulisse Phase transitions and hysteresis in one-dimensional thermo-plasticity. **2005g:74096**
Suiker, A. S. J. *see* **Turteltaub, Sergio, 2005m:74019**

Turteltaub, Sergio (*with* Suiker, A. S. J.) Transformation-induced plasticity in ferrous alloys. (English summary) **2005m:74019**

74N15 Analysis of microstructure

Bartels, Sören (*with* Carstensen, Carsten; Hackl, K.; Hoppe, U.) Effective relaxation for microstructure simulations: algorithms and applications. (English summary) **2005j:74046**

Carstensen, Carsten Ten remarks on nonconvex minimisation for phase transition simulations. (English summary) **2005g:74092**

— *see also* **Bartels, Sören et al., 2005j:74046**

Chen, Long-Qing *see* **Yu, Peng et al., 2005m:74078**

DeSimone, Antonio Coarse-grained models of materials with non-convex free-energy: two case studies. (English summary) **2005k:74065**

Dondl, Patrick W. (*with* Zimmer, Johannes) Modeling and simulation of martensitic phase transitions with a triple point. (English summary) **2005d:74030**

Du, Qiang *see* **Yu, Peng et al., 2005m:74078**

Elfanni, A. (*with* Fuchs, Martin[2]) The behaviour of microstructures with small shears of the austenite-martensite interface in martensitic phase transformations. (English summary) **2005a:74074**

Fuchs, Martin[2] *see* **Elfanni, A., 2005a:74074**

Hackl, K. *see* **Bartels, Sören et al., 2005j:74046**

Hoppe, U. *see* **Bartels, Sören et al., 2005j:74046**

Hu, Shenyang *see* **Yu, Peng et al., 2005m:74078**

Le Dret, Hervé (*with* Zorgati, Hamdi) Films courbés minces martensitiques. (English and French summaries) [Martensitic thin curved films] **2005e:74045**

Li, Zhiping Multiscale modelling and computation of microstructures in multi-well problems. (English summary) **2005g:74093**

Rajagopal, Kumbakonam (*with* Roubíček, Tomáš) On the effect of dissipation in shape-memory alloys. (English summary) **2005b:74098**

Roubíček, Tomáš *see* **Rajagopal, Kumbakonam, 2005b:74098**

Thamburaja, P. Constitutive equations for martensitic reorientation and detwinning in shape-memory alloys. (English summary) **2005j:74047**

Yu, Peng (*with* Hu, Shenyang; Chen, Long-Qing; Du, Qiang) An iterative-perturbation scheme for treating inhomogeneous elasticity in phase-field models. (English summary) **2005m:74078**

Zhang, Ke Wei[1] Isolated microstructures on linear elastic strains. (English summary) **2005h:74053**

Zimmer, Johannes *see* **Dondl, Patrick W., 2005d:74030**

Zorgati, Hamdi *see* **Le Dret, Hervé, 2005e:74045**

Items with secondary classifications in 74N15

Ahluwalia, Rajeev *see* **Albers, R. C. et al., 2005m:74075**

Albers, R. C. (*with* Ahluwalia, Rajeev; Lookman, Turab; Saxena, Avadh) Modeling solid-solid phase transformations: from single crystal to polycrystal behavior. (English summary) **2005m:74075**

Bělík, Pavel (*with* Luskin, Mitchell) A computational model for martensitic thin films with compositional fluctuation. (English summary) **2005i:74073**

Carstensen, Carsten (*with* Rieger, Marc Oliver) Young-measure approximations for elastodynamics with non-monotone stress-strain relations. (English summary) **2005g:65141**

Cho, Joon-Yeoun *see* **Idesman, A. V. et al., 2005h:74060**

Elfanni, A. (*with* Fuchs, Martin[2]) A link between the shape of the austenite-martensite interface and the behaviour of the surface energy. (English summary) **2005j:49034**

Ford, Judith M. (*with* Ford, Neville J.; Wheeler, John) Simulation of grain-boundary diffusion creep: analysis of some new numerical techniques. (English summary) **2005b:74029**

Ford, Neville J. *see* **Ford, Judith M. et al., 2005b:74029**

Freddi, Lorenzo (*with* Paroni, Roberto) The energy density of martensitic thin films via dimension reduction. (English summary) **2005j:74021**

Fuchs, Martin[2] *see* **Elfanni, A., 2005j:49034**

Henry, Marie (*with* Hilhorst, D.; Nishiura, Yasumasa) Singular limit of a second order nonlocal parabolic equation of conservative type arising in the micro-phase separation of diblock copolymers. (English summary) **2005c:35157**

Hilhorst, D. *see* **Henry, Marie et al., 2005c:35157**

Idesman, A. V. (*with* Levitas, V. I.; Preston, D. L.; Cho, Joon-Yeoun) Finite element simulations of martensitic phase transitions and microstructures based on a strain softening model. (English summary) **2005h:74060**

Levitas, V. I. *see* **Idesman, A. V. et al., 2005h:74060**

Lin, Chun-Chi Rigidity for the hyperbolic Monge-Ampère equation. (English summary) **2005j:35158**

Lookman, Turab *see* **Albers, R. C. et al., 2005m:74075**

Luskin, Mitchell *see* **Bělík, Pavel, 2005i:74073**

Mielke, Alexander Deriving new evolution equations for microstructures via relaxation of variational incremental problems. (English summary) **2005i:74034**

Nishiura, Yasumasa *see* **Henry, Marie et al., 2005c:35157**

Ortiz, Michael *see* **Sivakumar, Srinivasan M., 2005g:74030**

Osmolovskiĭ, V. G. Exact solutions to the variational problem of the phase transition theory in continuum mechanics. (English summary) **2005f:74038**

Paroni, Roberto *see* **Freddi, Lorenzo, 2005j:74021**

Preston, D. L. *see* **Idesman, A. V. et al., 2005h:74060**

Rieger, Marc Oliver *see* **Carstensen, Carsten, 2005g:65141**

Saxena, Avadh *see* **Albers, R. C. et al., 2005m:74075**

Segatti, Antonio Error estimates for a variable time-step discretization of a phase transition model with hyperbolic momentum. (English summary) **2005k:65189**

Sivakumar, Srinivasan M. (*with* Ortiz, Michael) Microstructure evolution in the equal channel angular extrusion process. (English summary) **2005g:74030**

Székelyhidi, László, Jr. Rank-one convex hulls in $\mathbb{R}^{2\times 2}$. (English summary) **2005k:49043**

Wheeler, John *see* **Ford, Judith M. et al., 2005b:74029**

74N20 Dynamics of phase boundaries

Items with secondary classifications in 74N20

Aso, Masayasu (*with* Frémond, Michel; Kenmochi, Nobuyuki) Phase change problems with temperature dependent constraints for the volume fraction velocities. (English summary) **2005i:35116**

Borsi, I. (*with* Farina, Angiolo; Fasano, Antonio) On the infiltration of rain water through the soil with runoff of the excess water. (English summary) **2005k:35234**

Buonsanti, Michele (*with* Royer-Carfagni, Gianni) From 3-D nonlinear elasticity theory to 1-D bars with nonconvex energy. (English summary) **2005c:74048**

Degorce, Jean-Yves *see* **Saucier, Antoine et al., 2005k:80007**

Eremeev, V. A. (*with* Pietraszkiewicz, Wojciech) The nonlinear theory of elastic shells and phase transitions. (English summary) **2005a:74063**

Farina, Angiolo *see* **Borsi, I. et al., 2005k:35234**

Fasano, Antonio *see* **Borsi, I. et al., 2005k:35234**

Frankel, Michael (*with* Roytburd, Victor) On attractors for a sharp interface model of exothermic phase transitions. (English summary) **2005e:37183**

Frémond, Michel *see* **Aso, Masayasu et al., 2005i:35116**

Giga, Yoshikazu (*with* Rybka, Piotr) Existence of self-similar evolution of crystals grown from supersaturated vapor. (English summary) **2005i:35296**

Kenmochi, Nobuyuki *see* **Aso, Masayasu et al., 2005i:35116**

Meunier, Michel *see* **Saucier, Antoine et al., 2005k:80007**

Pietraszkiewicz, Wojciech *see* **Eremeev, V. A., 2005a:74063**

Podio-Guidugli, Paolo (*with* Tomassetti, Giuseppe) On the evolution of domain walls in hard ferromagnets. (English summary) **2005k:82105**

Rajagopal, Kumbakonam (*with* Roubíček, Tomáš) On the effect of dissipation in shape-memory alloys. (English summary) **2005b:74098**

Roubíček, Tomáš *see* **Rajagopal, Kumbakonam, 2005b:74098**

Royer-Carfagni, Gianni *see* **Buonsanti, Michele, 2005c:74048**

Roytburd, Victor *see* **Frankel, Michael, 2005e:37183**

Rybka, Piotr *see* **Giga, Yoshikazu, 2005i:35296**

Saucier, Antoine (*with* Degorce, Jean-Yves; Meunier, Michel) Analytical solutions of a growth model for a melt region induced by a focused laser beam. (English summary) **2005k:80007**

Tang, Shaoqiang (*with* Zhao, Hui-Jiang) Stability of Suliciu model for phase transitions. (English summary) **2005i:35184**

Tomassetti, Giuseppe *see* **Podio-Guidugli, Paolo, 2005k:82105**

Zhao, Hui-Jiang *see* **Tang, Shaoqiang, 2005i:35184**

74N25 Transformations involving diffusion

Bhattacharya, Kaushik *see* **Jabbour, Michel E., 2005b:74099**

Blesgen, Thomas (*with* Weikard, U.) A sharp interface model for phase transitions in crystals with linear elasticity. (English summary) **2005g:74094**

Jabbour, Michel E. (*with* Bhattacharya, Kaushik) A continuum theory of multispecies thin solid film growth by chemical vapor deposition. (English summary) **2005b:74099**

Weikard, U. *see* **Blesgen, Thomas, 2005g:74094**

Items with secondary classifications in 74N25

Bänsch, Eberhard (*with* Morin, Pedro; Nochetto, Ricardo H.) A finite element method for surface diffusion: the parametric case. (English summary) **2005g:65139**

Borucki, Len *see* **Wilkening, Jon et al., 2005h:35343** *and* **2005h:35344**

Ford, Judith M. (*with* Ford, Neville J.; Wheeler, John) Simulation of grain-boundary diffusion creep: analysis of some new numerical techniques. (English summary) **2005b:74029**

Ford, Neville J. *see* **Ford, Judith M. et al., 2005b:74029**

Garcke, Harald (*with* Styles, Vanessa) Bi-directional diffusion induced grain boundary motion with triple junctions. (English summary) **2005h:80006**

Morin, Pedro *see* **Bänsch, Eberhard et al., 2005g:65139**

Nochetto, Ricardo H. *see* **Bänsch, Eberhard et al., 2005g:65139**

Radkevich, E. V. (*with* Zakharchenko, M.) On the singular-limit problem for the extended Cahn-Hilliard model. (Russian. Russian summary) **2005g:35309**

Sethian, J. A. *see* **Wilkening, Jon et al., 2005h:35343** *and* **2005h:35344**

Styles, Vanessa *see* **Garcke, Harald, 2005h:80006**

Wheeler, John *see* **Ford, Judith M. et al., 2005b:74029**

Wilkening, Jon (*with* Borucki, Len; Sethian, J. A.) Analysis of stress-driven grain boundary diffusion. (English summary) **2005h:35343**

— (*with* Borucki, Len; Sethian, J. A.) Analysis of stress-driven grain boundary diffusion. II. Degeneracy. (English summary) **2005h:35344**

Yeh, Li-Chin A singularly perturbed reaction-diffusion problem with inhomogeneous environment. (English summary) **2005f:35175**

Zakharchenko, M. *see* **Radkevich, E. V., 2005g:35309**

74N30 Problems involving hysteresis

Aiki, Toyohiko One-dimensional shape memory alloy problems including a hysteresis operator. **2005k:74066**

Auricchio, Ferdinando (*with* Stefanelli, Ulisse) Numerical analysis of a three-dimensional super-elastic constitutive model. (English summary) **2005b:74100**

Klein, Olaf Asymptotic behaviour for a phase-field model with hysteresis in one-dimensional thermo-visco-plasticity. (English summary) **2005c:74062**

Krejčí, Pavel (*with* Sprekels, Jürgen; Stefanelli, Ulisse) Phase-field models with hysteresis in one-dimensional thermoviscoplasticity. (English summary) **2005d:74031**

— (*with* Sprekels, Jürgen; Stefanelli, Ulisse) One-dimensional thermo-visco-plastic processes with hysteresis and phase transitions. (English summary) **2005h:74054**

Kružík, Martin (*with* Otto, Felix) A phenomenological model for hysteresis in polycrystalline shape memory alloys. (English summary) **2005g:74095**

Matus, Petr P. (*with* Melnik, Roderick V. N.; Wang, Linxiang; Rybak, I. V.) Applications of fully conservative schemes in nonlinear thermoelasticity: modelling shape memory materials. (English summary) **2005b:74101**

Melnik, Roderick V. N. *see* **Matus, Petr P. et al., 2005b:74101**
Musolff, A. (*with* Sahota, Harsimar) Phase transitions in the shape memory alloy CuAlNi. (English summary)
Otto, Felix *see* **Kružík, Martin, 2005g:74095**
Rybak, I. V. *see* **Matus, Petr P. et al., 2005b:74101**
Sahota, Harsimar *see* **Musolff, A.**
Sprekels, Jürgen *see* **Krejčí, Pavel et al., 2005d:74031** *and* **2005h:74054**
Stefanelli, Ulisse Phase transitions and hysteresis in one-dimensional thermo-plasticity. **2005g:74096**
— *see also* **Auricchio, Ferdinando, 2005b:74100**; **Krejčí, Pavel et al., 2005d:74031** *and* **2005h:74054**
Wang, Linxiang *see* **Matus, Petr P. et al., 2005b:74101**

Items with secondary classifications in 74N30

Balandraud, Xavier (*with* Ernst, Emil; Soós, Eugen) Monotone strain-stress models for shape memory alloys hysteresis loop and pseudoelastic behavior. (English summary) **2005i:74002**
Ernst, Emil *see* **Balandraud, Xavier et al., 2005i:74002**
Kenmochi, Nobuyuki (*with* Minchev, Emil; Okazaki, Takanobu) On a system of nonlinear PDE's with diffusion and hysteresis effects. (English summary) **2005h:35381**
Klein, Olaf (*with* Krejčí, Pavel) Outwards pointing hysteresis operators and asymptotic behaviour of evolution equations. (English summary) **2005d:47114**
Krejčí, Pavel (*with* Kuhnen, Klaus) Error estimates for the discrete inversion of hysteresis and creep operators. (English summary) **2005e:74048**
— *see also* **Klein, Olaf, 2005d:47114**
Kuhnen, Klaus *see* **Krejčí, Pavel, 2005e:74048**
Minchev, Emil Phase transition models with hysteresis effect and vector order parameter. (English summary) (*see* **2005c:35004**)
— *see also* **Kenmochi, Nobuyuki et al., 2005h:35381**
Okazaki, Takanobu Some phase transition models with hysteresis effect and their numerical simulation. (English summary) **2005h:34123**
— *see also* **Kenmochi, Nobuyuki et al., 2005h:35381**
Soós, Eugen *see* **Balandraud, Xavier et al., 2005i:74002**

74N99 None of the above, but in this section

Auricchio, Ferdinando (*with* Petrini, Lorenza) A three-dimensional model describing stress-temperature induced solid phase transformations: solution algorithm and boundary value problems. (English summary) **2005d:74032**
Ayzenberg-Stepanenko, M. V. *see* **Slepyan, Leonid, 2005a:74077**
Berezovskii, Arkadii A. (*with* Maugin, Gérard A.) Stress-induced phase-transition front propagation in thermoelastic solids. (English summary) **2005i:74061**
Dai, Hui-Hui Non-existence of one-dimensional stress problems in solid-solid phase transitions and uniqueness conditions for incompressible phase-transforming materials. (English and French summaries) **2005a:74075**
Freidin, A. B. *see* **Fu, Yibin B., 2005g:74097**
Fu, Yibin B. (*with* Freidin, A. B.) Characterization and stability of two-phase piecewise-homogeneous deformations. (English summary) **2005g:74097**
Gao, David Yang Complementary principle, algorithm, and complete solutions to phase transitions in solids governed by Landau-Ginzburg equation. (English summary) **2005b:74102**
Grasselli, Maurizio (*with* Pata, Vittorino) Phase-field systems with memory effects in the order parameter dynamics. **2005j:74048**
Jung, Youngjean (*with* Papadopoulos, Panayiotis; Ritchie, R. O.) Constitutive modelling and numerical simulation of multivariant phase transformation in superelastic shape-memory alloys. (English summary) **2005a:74076**
Maugin, Gérard A. *see* **Berezovskii, Arkadii A., 2005i:74061**
Osmolovskiĭ, V. G. Dependence of the temperature of phase transitions on the size of the domain. (Russian. English and Russian summaries) **2005m:74079**
Papadopoulos, Panayiotis *see* **Jung, Youngjean et al., 2005a:74076**
Pata, Vittorino *see* **Grasselli, Maurizio, 2005j:74048**
Petrini, Lorenza *see* **Auricchio, Ferdinando, 2005d:74032**
Ritchie, R. O. *see* **Jung, Youngjean et al., 2005a:74076**
Slepyan, Leonid (*with* Ayzenberg-Stepanenko, M. V.) Localized transition waves in bistable-bond lattices. (English summary) **2005a:74077**
Truskinovsky, Lev (*with* Vainchtein, Anna) The origin of nucleation peak in transformational plasticity. (English summary) **2005a:74078**
Vainchtein, Anna *see* **Truskinovsky, Lev, 2005a:74078**

Items with secondary classifications in 74N99

Aiki, Toyohiko (*with* Kadoya, Atsushi) Large time behavior of a solution to the one-dimensional shape memory alloy problem. (English summary) **2005i:74035**
Berezovskii, Arkadii A. (*with* Engelbrecht, Jüri; Maugin, Gérard A.) Numerical simulation of thermoelastic wave and phase-transition front propagation. (English summary) (*see* **2005b:00020**)
Boldrini, José Luiz *see* **Planas, Gabriela, 2005k:35407**
Buratti, Giovanni Stresses and deflections in a pseudo-elastic beam under cyclic loads. (English summary)
Chen, Xinfu Generation, propagation, and annihilation of metastable patterns. (English summary) **2005g:35147**
Colli, Pierluigi (*with* Shirakawa, Ken) Attractors for the one-dimensional Frémond model of shape memory alloys. (English summary) **2005h:37193**
Dal Maso, Gianni (*with* Fonseca, Irene; Leoni, Giovanni; Morini, Massimiliano) Higher-order quasiconvexity reduces to quasiconvexity. (English summary) **2005a:49003**
Danilov, D. A. *see* **Galenko, P. K., 2005g:80009**
Engelbrecht, Jüri *see* **Berezovskii, Arkadii A. et al., (2005b:00020)**
Fasano, Antonio (*with* Mancini, Alberto; Ricci, Riccardo[1]) Solid core revisited. (English summary) **2005b:82101**
Feng, Xiaobing (*with* Prohl, Andreas) Numerical analysis of the Cahn-Hilliard equation and approximation of the Hele-Shaw problem. (English summary) **2005j:35098**
Fonseca, Irene *see* **Dal Maso, Gianni et al., 2005a:49003**
Galenko, P. K. (*with* Danilov, D. A.) Linear morphological stability analysis of the solid-liquid interface in rapid solidification of a binary system. (English summary) **2005g:80009**
Gao, David Yang Nonconvex semi-linear problems and canonical duality solutions. (English summary) **2005b:47155**
Gatti, Stefania[2] (*with* Sartori, Elena) Phase field systems with memory effects in the order parameter dynamics: convergence to standard phase field systems. (English summary) **2005h:80007**
— (*with* Sartori, Elena) Well-posedness results for phase field systems with memory effects in the order parameter dynamics. (English summary) **2005c:80006**
— (*with* Grasselli, Maurizio; Pata, Vittorino) Exponential attractors for a phase-field model with memory and quadratic nonlinearities. (English summary) **2005e:37184**
— (*with* Grasselli, Maurizio; Pata, Vittorino) Exponential attractors for a conserved phase-field system with memory. (English summary) **2005a:37151**
Gilardi, Gianni (*with* Marson, Andrea) On a Penrose-Fife type system with Dirichlet boundary conditions for temperature. (English summary) **2005e:82081**
Glicksman, Martin E. Boundary motion in polyhedral space-filling networks. (English summary) (*see* **2005b:65003**)
Grasselli, Maurizio (*with* Pata, Vittorino; Vegni, Federico Mario) Longterm dynamics of a conserved phase-field system with memory. (English summary) **2005b:37187**
— *see also* **Gatti, Stefania[2] et al., 2005a:37151** *and* **2005e:37184**
Kadoya, Atsushi *see* **Aiki, Toyohiko, 2005i:74035**
Klouček, Petr (*with* Reynolds, Daniel R.; Seidman, Thomas I.) Computational modeling of vibration damping in SMA wires. (English summary) **2005c:74033**
Kosowski, Zenon (*with* Pawłow, Irena) Unique global solvability of the Fried-Gurtin model for phase transitions in solids. (English summary) **2005i:35263**
Kresse, O. (*with* Truskinovsky, Lev) Lattice friction for crystalline defects: from dislocations to cracks. (English summary) **2005e:74008**
Lagoudas, D. C. *see* **Newman, Michael Glen et al., 2005k:65214**
Leoni, Giovanni *see* **Dal Maso, Gianni et al., 2005a:49003**
Mai Duc Thanh *see* **Rohde, Christian, 2005k:35183**
Mancini, Alberto *see* **Fasano, Antonio et al., 2005b:82101**
Marson, Andrea *see* **Gilardi, Gianni, 2005e:82081**
Matus, Petr P. (*with* Melnik, Roderick V. N.) Analysis of conservative difference schemes for materials with memory. (English summary) (*see* **2005i:00016**)
— *see also* **Melnik, Roderick V. N. et al., (2005g:65009)**
Maugin, Gérard A. *see* **Berezovskii, Arkadii A. et al., (2005b:00020)**
Melnik, Roderick V. N. (*with* Wang, Linxiang; Matus, Petr P.; Rybak, I. V.) Computational aspects of conservative difference schemes for shape memory alloys applications. (English summary) (*see* **2005g:65009**)
— *see also* **Matus, Petr P., (2005i:00016)**
Mikhaĭlov, A. S. Dependence of equilibrium states on parameters of the phase transition problem under implicit accounting of energy of the boundary of the interface of the phases. (English summary) **2005g:35060**
Miranville, Alain Generalizations of the Cahn-Hilliard equation based on a balance law for microforces. (English summary) (*see* **2005c:35004**)
Morini, Massimiliano *see* **Dal Maso, Gianni et al., 2005a:49003**
Newman, Michael Glen (*with* Safjan, Andrzej J.; Popov, Peter A.; Lagoudas, D. C.) A non-reflecting layer method for non-linear wave-type equations on unbounded domains with applications to shape memory alloy rods. (English summary) **2005k:65214**
Palombaro, Mariapia (*with* Ponsiglione, Marcello) The three divergence free matrix fields problem. (English summary) **2005h:35030**
Pata, Vittorino *see* **Gatti, Stefania[2] et al., 2005a:37151**; **2005e:37184** *and* **Grasselli, Maurizio et al., 2005b:37187**
Pawłow, Irena (*with* Zajączkowski, Wojciech M.) Global existence to a three-dimensional non-linear thermoelasticity system arising in shape memory materials. (English summary) **2005h:35339**
— (*with* Zajączkowski, Wojciech M.) Unique global solvability in two-dimensional non-linear thermoelasticity. (English summary) **2005m:74024**
— *see also* **Kosowski, Zenon, 2005i:35263**
Planas, Gabriela (*with* Boldrini, José Luiz) A bidimensional phase-field model with convection for change phase of an alloy. (English summary) **2005k:35407**
Ponsiglione, Marcello *see* **Palombaro, Mariapia, 2005h:35030**
Popov, Peter A. *see* **Newman, Michael Glen et al., 2005k:65214**
Prohl, Andreas *see* **Feng, Xiaobing, 2005j:35098**
Racke, Reinhard The Cahn-Hilliard equation with dynamic boundary conditions. (English summary) (*see* **2005c:35004**)
Raguž, Andrija Relaxation of Ginzburg-Landau functional with 1-Lipschitz penalizing term in one dimension by Young measures on micropatterns. (English summary) **2005k:49124**
Rajagopal, Kumbakonam (*with* Srinivasa, A. R.) On the thermomechanics of materials that have multiple natural configurations. I. Viscoelasticity and classical plasticity. (English summary) **2005c:74004**
Reynolds, Daniel R. *see* **Klouček, Petr et al., 2005c:74033**
Ricci, Riccardo[1] *see* **Fasano, Antonio et al., 2005b:82101**
Rohde, Christian (*with* Mai Duc Thanh) Global existence for phase transition problems via a variational scheme. (English summary) **2005k:35183**
— Phase transitions and sharp-interface limits for the 1d-elasticity system with non-local energy. (English summary) **2005k:35268**
Rossi, Riccarda Well-posedness and asymptotic analysis for a Penrose-Fife type phase field system. (English summary) **2005d:35123**
Rybak, I. V. *see* **Melnik, Roderick V. N. et al., (2005g:65009)**
Safjan, Andrzej J. *see* **Newman, Michael Glen et al., 2005k:65214**
Sartori, Elena *see* **Gatti, Stefania[2], 2005c:80006** *and* **2005h:80007**
Segatti, Antonio Analysis of a solid-solid phase change model coupling hyperbolic momentum balance and diffusive phase dynamics. (English summary) **2005e:35225**
Seidman, Thomas I. *see* **Klouček, Petr et al., 2005c:74033**
Shirakawa, Ken Stability for steady-state solutions of a nonisothermal Allen-Cahn equation generated by a total variation energy. (English summary) (*see* **2005c:35004**)

— *see also* **Colli, Pierluigi, 2005h:37193**
Srinivasa, A. R. *see* **Rajagopal, Kumbakonam, 2005c:74004**
Truskinovsky, Lev *see* **Kresse, O., 2005e:74008**
Vegni, Federico Mario *see* **Grasselli, Maurizio et al., 2005b:37187**
Vodák, Rostislav On a decay rate for a Landau-Ginzburg system with viscosity for martensitic phase transitions in shape memory alloys. (English summary) **2005e:35226**
Wang, Linxiang *see* **Melnik, Roderick V. N. et al., (2005g:65009)**
Wang, Michael Yu (*with* Zhou, Shiwei) Phase field: a variational method for structural topology optimization. (English summary) **2005h:74055**
Wanner, Thomas Maximum norms of random sums and transient pattern formation. (English summary) **2005a:35146**
Wu, Hao (*with* Zheng, Song Mu) Asymptotic behavior of solution to the Cahn-Hilliard equation with dynamic boundary conditions. (English summary) (*see* **2005c:35004**)
Zajączkowski, Wojciech M. *see* **Pawłow, Irena, 2005h:35339** *and* **2005m:74024**
Zheng, Song Mu *see* **Wu, Hao, (2005c:35004)**
Zhou, Shiwei *see* **Wang, Michael Yu, 2005h:74055**

74Pxx Optimization [see also 49Qxx]

Items with secondary classifications in 74Pxx

Henrot, Antoine (*with* Sokołowski, Jan) Nouvelles tendances en optimisation de forme. [New directions in shape optimization]
Oudet, Édouard ★ Quelques résultats en optimisation de forme et stabilisation. (French) [Some results in shape optimization and stabilization] **2005g:49072**
Sokołowski, Jan *see* **Henrot, Antoine**

74P05 Compliance or weight optimization

Alvarez, Felipe (*with* Carrasco, Miguel Angel) Minimization of the expected compliance as an alternative approach to multiload truss optimization. (English summary) **2005m:74080**
Atanacković, Teodor M. (*with* Glavardanov, V. B.) Optimal shape of a heavy compressed column. (English summary) **2005i:74062**
Bendsøe, M. P. *see* **Norato, J. et al., 2005b:74103**
Bletzinger, Kai-Uwe (*with* Wüchner, Roland; Daoud, Fernaß; Camprubí, Natalia) Computational methods for form finding and optimization of shells and membranes. (English summary)
Camprubí, Natalia *see* **Bletzinger, Kai-Uwe et al.**
Carrasco, Miguel Angel *see* **Alvarez, Felipe, 2005m:74080**
Chang, Youngmin *see* **Kim, Nam H.**
Cherkaev, Andrej *see* **Cherkaeva, Elena, 2005m:74081**
Cherkaeva, Elena (*with* Cherkaev, Andrej) Principal compliance and robust optimal design. (English summary) **2005m:74081**
Daoud, Fernaß *see* **Bletzinger, Kai-Uwe et al.**
Desmorat, B. (*with* Duvaut, G.) Optimization of the reinforcement of a 3D medium with thin composite plates. (English summary) **2005g:74098**
Ding, Xiaohong (*with* Yamazaki, Koetsu) Adaptive growth technique of stiffener layout pattern for plate and shell structures to achieve minimum compliance. (English summary) **2005m:74082**
Duvaut, G. *see* **Desmorat, B., 2005g:74098**
Egorov, Yuriĭ Vladimirovich On the Lagrange problem of the optimal form for circular hollow columns. (English summary) **2005f:74065**
Glavardanov, V. B. *see* **Atanacković, Teodor M., 2005i:74062**
Haber, Robert Bruce *see* **Norato, J. et al., 2005b:74103**
Ibrahimbegovic, A. (*with* Knopf-Lenoir, C.; Kučerová, A.; Villon, Pierre) Optimal design and optimal control of structures undergoing finite rotations and elastic deformations. (English summary) **2005f:74066**
Kim, Nam H. (*with* Chang, Youngmin) Eulerian shape design sensitivity analysis and optimization with a fixed grid. (English summary)
Knopf-Lenoir, C. *see* **Ibrahimbegovic, A. et al., 2005f:74066**
Krużelecki, Jacek (*with* Smaś, Paweł) Optimal design of simply supported columns for buckling under loading controlled by displacements. (English summary)
Kučerová, A. *see* **Ibrahimbegovic, A. et al., 2005f:74066**
Mach, Jan Finite element analysis of free material optimization problem. (English summary) **2005d:74033**
Machado, G. (*with* Trabucho, Luis) Analytical and numerical solutions for a class of optimization problems in elasticity. (English summary) **2005g:74099**
Norato, J. (*with* Haber, Robert Bruce; Tortorelli, Daniel A.; Bendsøe, M. P.) A geometry projection method for shape optimization. (English summary) **2005b:74103**
Selyugin, S. V. On optimal geometrically non-linear trusses. (English summary) **2005j:74049**
Smaś, Paweł *see* **Krużelecki, Jacek**
Stolpe, M. Global optimization of minimum weight truss topology problems with stress, displacement, and local buckling constraints using branch-and-bound. (English summary) **2005f:74067**
Tortorelli, Daniel A. *see* **Norato, J. et al., 2005b:74103**
Trabucho, Luis *see* **Machado, G., 2005g:74099**
Villon, Pierre *see* **Ibrahimbegovic, A. et al., 2005f:74066**
Wüchner, Roland *see* **Bletzinger, Kai-Uwe et al.**
Yamazaki, Koetsu *see* **Ding, Xiaohong, 2005m:74082**

Items with secondary classifications in 74P05

Allahverdipur, Navid H. *see* **Joghataie, Abdolreza**
Bendsøe, M. P. (*with* Sigmund, O.) ★ Topology optimization. **2005e:74046**
Egorov, Yuriĭ Vladimirovich The Lagrange problem on the optimal shape of a column. (Russian) **2005i:49044**
— On the Lagrange problem about the strongest columns. (English summary) **2005g:49004**
Goulart, E. *see* **Herskovits, J. et al.**
Haber, Eldad A multilevel, level-set method for optimizing eigenvalues in shape design problems. (English summary) **2005g:65163**
Herskovits, J. (*with* Mappa, P.; Goulart, E.; Mota Soares, Cristóvão M.) Mathematical programming models and algorithms for engineering design optimization. (English summary)
Joghataie, Abdolreza (*with* Allahverdipur, Navid H.) Iterative univariate optimization of nonlinear trusses with fuzzy strain constraints. (English summary)
Kaneko, H. *see* **Maĭlybaev, A. A. et al.**
Magazinović, G. Two-point mid-range approximation enhanced recursive quadratic programming method. (English summary)
Maĭlybaev, A. A. (*with* Yabuno, H.; Kaneko, H.) Optimal shapes of parametrically excited beams. (English summary)
Mappa, P. *see* **Herskovits, J. et al.**
Mikulski, Leszek Control structure in optimization problems of bar systems. (English summary)
Mota Soares, Cristóvão M. *see* **Herskovits, J. et al.**
Németh, Ferenc Plane curves of mechanics tensors. (Hungarian. English and Hungarian summaries) **2005k:53008**
Pedregal, Pablo On the generality of variational principles. (English summary) **2005k:49127**
Privalova, O. G. *see* **Seĭranyan, A. P., 2005a:74057**
Roubíček, Tomáš Maximum principle in the optimal design of plates with stratified thickness. (English summary) **2005k:49071**
Ruetsch, G. R. An interval algorithm for multi-objective optimization. (English summary)
Seĭranyan, A. P. (*with* Privalova, O. G.) The Lagrange problem on an optimal column: old and new results. (English summary) **2005a:74057**
Sigmund, O. *see* **Bendsøe, M. P., 2005e:74046**
Sokołowski, Jan (*with* Żochowski, Antoni) Optimality conditions for simultaneous topology and shape optimization. (English summary) **2005f:49091**
Yabuno, H. *see* **Maĭlybaev, A. A. et al.**
Żochowski, Antoni *see* **Sokołowski, Jan, 2005f:49091**

74P10 Optimization of other properties

Lewiński, T. Michell structures formed on surfaces of revolution. (English summary) **2005c:74063**

Items with secondary classifications in 74P10

Atanacković, Teodor M. (*with* Braun, D. J.) The strongest rotating rod. (English summary) **2005j:74035**
Bellido, José Carlos (*with* Pedregal, Pablo) Existence in optimal control with state equation in divergence form via variational principles. (English summary) **2005a:49005**
Braun, D. J. *see* **Atanacković, Teodor M., 2005j:74035**
Milton, Graeme W. (*with* Serkov, S. K.; Movchan, Alexander) Realizable (average stress, average strain) pairs in a plate with holes. (English summary) **2005a:74084**
Movchan, Alexander *see* **Milton, Graeme W. et al., 2005a:74084**
Pedregal, Pablo Constrained quasiconvexification of the square of the gradient of the state in optimal design. (English summary) **2005f:49043**
— *see also* **Bellido, José Carlos, 2005a:49005**
Serkov, S. K. *see* **Milton, Graeme W. et al., 2005a:74084**
Wheeler, Lewis Inhomogeneities of minimum stress concentration. (English summary) **2005b:74050**

74P15 Topological methods

Allaire, Grégoire (*with* Jouve, François; Toader, Anca-Maria) Structural optimization using sensitivity analysis and a level-set method. (English summary) **2005a:74079**
— (*with* Jouve, François; Maillot, Hervé) Topology optimization for minimum stress design with the homogenization method. (English summary) **2005f:74068**
Ananiev, Sergey On equivalence between optimality criteria and projected gradient methods with application to topology optimization problem. (English summary) **2005j:74050**
Belytschko, Ted *see* **Guest, J. K. et al., 2005b:74105**
Bendsøe, M. P. (*with* Sigmund, O.) ★ Topology optimization. **2005e:74046**
— *see also* **Kawamoto, Atsushi et al.**
Bruns, T. E. (*with* Sigmund, O.) Toward the topology design of mechanisms that exhibit snap-through behavior. (English summary) **2005b:74104**
Ding, Han *see* **Wang, Michael Yu et al.**
Guest, J. K. (*with* Prévost, J. H.; Belytschko, Ted) Achieving minimum length scale in topology optimization using nodal design variables and projection functions. (English summary) **2005b:74105**
Habbal, Abderrahmane (*with* Petersson, Joakim; Thellner, Mikael) Multidisciplinary topology optimization solved as a Nash game. (English summary) **2005i:74063**
Hoppe, Ronald H. W. Shape and topology optimization in materials science. (English summary) (*see* **2005i:65006**)
Hsu, Ming-Hsiu (*with* Hsu, Yeh-Liang) Generalization of two- and three-dimensional structural topology optimization. (English summary)
Hsu, Yeh-Liang *see* **Hsu, Ming-Hsiu**
Huang, Ruo-yua *see* **Liu, Zhenyu[1] et al.**
Jang, Gang-Won (*with* Lee, Sangkeun; Kim, Yoon Young; Sheen, Dongwoo) Topology optimization using non-conforming finite elements: three-dimensional case. (English summary)
Jouve, François *see* **Allaire, Grégoire et al., 2005a:74079** *and* **2005f:74068**
Katoh, Naoki *see* **Ohsaki, Makoto, 2005m:74083**
Kawamoto, Atsushi (*with* Bendsøe, M. P.; Sigmund, O.) Articulated mechanism design with a degree of freedom constraint. (English summary)
Kim, Yoon Young *see* **Yoon, Gil Ho, 2005j:74051** *and* **Jang, Gang-Won et al.**
Korvink, J. G. *see* **Liu, Zhenyu[1] et al.**
Lawrence, W. Eric *see* **Vemaganti, Kumar**
Lee, Sangkeun *see* **Jang, Gang-Won et al.**

Liu, Zhenyu[1] (*with* Korvink, J. G.; Huang, Ruo-yua) Structure topology optimization: fully coupled level set method via FEMLAB. (English summary)
Maillot, Hervé *see* **Allaire, Grégoire et al., 2005f:74068**
Mei, Yulin (*with* Wang, Xiao Ming[2]) A level set method for structural topology optimization with multi-constraints and multi-materials. (English summary)
Ohsaki, Makoto (*with* Katoh, Naoki) Topology optimization of trusses with stress and local constraints on nodal stability and member intersection. (English summary) **2005m:74083**
Petersson, Joakim *see* **Habbal, Abderrahmane et al., 2005i:74063**
Prévost, J. H. *see* **Guest, J. K. et al., 2005b:74105**
Sheen, Dongwoo *see* **Jang, Gang-Won et al.**
Sigmund, O. *see* **Bruns, T. E., 2005b:74104**; **Bendsøe, M. P., 2005e:74046** *and* **Kawamoto, Atsushi et al.**
Tai, Kang *see* **Wang, S. Y.**
Thellner, Mikael *see* **Habbal, Abderrahmane et al., 2005i:74063**
Toader, Anca-Maria *see* **Allaire, Grégoire et al., 2005a:74079**
Vemaganti, Kumar (*with* Lawrence, W. Eric) Parallel methods for optimality criteria-based topology optimization. (English summary)
Wang, Michael Yu (*with* Zhou, Shiwei) Phase field: a variational method for structural topology optimization. (English summary) **2005h:74055**
— (*with* Zhou, Shiwei; Ding, Han) Nonlinear diffusions in topology optimization. (English summary)
— (*with* Wang, Shengyin) Bilateral filtering for structural topology optimization. (English summary)
Wang, S. Y. (*with* Tai, Kang) Graph representation for structural topology optimization using genetic algorithms. (English summary)
Wang, Shengyin *see* **Wang, Michael Yu**
Wang, Xiao Ming[2] *see* **Mei, Yulin**
Yoon, Gil Ho (*with* Kim, Yoon Young) Triangular checkerboard control using a wavelet-based method in topology optimization. (English summary) **2005j:74051**
Zhou, Shiwei *see* **Wang, Michael Yu et al., 2005h:74055**

Items with secondary classifications in 74P15

Allaire, Grégoire (*with* Jouve, François; Toader, Anca-Maria) Structural optimization by the level-set method. (English summary) **2005d:49058**
Alvarez, Felipe (*with* Carrasco, Miguel Angel) Minimization of the expected compliance as an alternative approach to multiload truss optimization. (English summary) **2005m:74080**
Carrasco, Miguel Angel *see* **Alvarez, Felipe, 2005m:74080**
Hassine, Maatoug (*with* Masmoudi, Mohamed) The topological asymptotic expansion for the quasi-Stokes problem. (English summary) **2005h:49101**
Jouve, François *see* **Allaire, Grégoire et al., 2005d:49058**
Masmoudi, Mohamed *see* **Hassine, Maatoug, 2005h:49101**
Sokołowski, Jan (*with* Żochowski, Antoni) Optimality conditions for simultaneous topology and shape optimization. (English summary) **2005f:49091**
Stolpe, M. Global optimization of minimum weight truss topology problems with stress, displacement, and local buckling constraints using branch-and-bound. (English summary) **2005f:74067**
Toader, Anca-Maria *see* **Allaire, Grégoire et al., 2005d:49058**
Żochowski, Antoni *see* **Sokołowski, Jan, 2005f:49091**

74P20 Geometrical methods

Chambolle, Antonin A density result in two-dimensional linearized elasticity, and applications. (English summary) **2005i:74064**

74P99 None of the above, but in this section

Adams, B. L. *see* **Lyon, M., 2005f:74069**
Bellur-Ramaswamy, Ravi S. (*with* Haber, Robert Bruce; Sobh, Nahil A.; Tortorelli, Daniel A.) Modelling and process optimization for functionally graded materials. (English summary)
Bouazara, M. *see* **Richard, M. J. et al.**
Chen, Tungyang *see* **Lipton, Robert, 2005j:74052**
El-Hami, A. *see* **Kharmanda, G. et al., 2005b:74106**
Feijóo, Raúl A. *see* **Taroco, Edgardo, 2005b:74107**
Haber, Robert Bruce *see* **Bellur-Ramaswamy, Ravi S. et al.**
Hirschen, K. *see* **Schmid, Florian et al.**
Huang, Ming Zen *see* **Richard, M. J. et al.**
Kharmanda, G. (*with* Olhoff, N.; El-Hami, A.) Optimum values of structural safety factors for a predefined reliability level with extension to multiple limit states. (English summary) **2005b:74106**
Kügler, Philipp A parameter identification problem of mixed type related to the manufacture of car windshields. (English summary) **2005a:74080**
Lipton, Robert (*with* Chen, Tungyang) Bounds and extremal configurations for the torsional rigidity of coated fiber reinforced shafts. (English summary) **2005j:74052**
Lyon, M. (*with* Adams, B. L.) Gradient-based non-linear microstructure design. (English summary) **2005f:74069**
Meynen, S. *see* **Schmid, Florian et al.**
Olhoff, N. *see* **Kharmanda, G. et al., 2005b:74106**
Procházka, Petr Moving boundary of fibers in FRC. (English summary) (*see* **2005b:65003**)
Richard, M. J. (*with* Huang, Ming Zen; Bouazara, M.) Computer aided analysis and optimal design of mechanical systems using vector-network techniques. (English summary)
Schäfer, Michael *see* **Schmid, Florian et al.**
Schmid, Florian (*with* Hirschen, K.; Meynen, S.; Schäfer, Michael) An enhanced approach for shape optimization using an adaptive algorithm. (English summary)
Sobh, Nahil A. *see* **Bellur-Ramaswamy, Ravi S. et al.**
Taroco, Edgardo (*with* Feijóo, Raúl A.) A unified approach for shape sensitivity analysis of elastic shells. (English summary) **2005b:74107**
Tortorelli, Daniel A. *see* **Bellur-Ramaswamy, Ravi S. et al.**
Wang, Xiao Ming[1] *see* **Zhang, Zhiqian et al.**
Weinberger, Hans F. Necessary conditions for the optimality of an extrusion die for a rigid-plastic material. (English summary) **2005g:74100**
Zhang, Ling *see* **Zhang, Zhiqian et al.**
Zhang, Zhiqian (*with* Zhou, Jinxiong; Zhou, Ning[2]; Wang, Xiao Ming[1]; Zhang, Ling) Shape optimization using reproducing kernel particle method and an enriched genetic algorithm. (English summary)
Zhou, Jinxiong *see* **Zhang, Zhiqian et al.**
Zhou, Ning[2] *see* **Zhang, Zhiqian et al.**

Items with secondary classifications in 74P99

Amrouche, Cherif (*with* Nečasová, Šárka; Sokołowski, Jan) Shape sensitivity analysis of the Dirichlet Laplacian in a half-space. (English summary) **2005k:49118**
Arora, J. S. *see* **Mijar, A. R., 2005e:74042** *and* **2005e:74043**
Bonnet, Marc *see* **Guzina, Bojan B., 2005a:74051**
Booker, Andrew J. (*with* Meckesheimer, Martin; Torng, Tony) Reliability based design optimization using design explorer. (English summary)
Bouillard, Philippe *see* **Filomeno Coelho, R.**
Ciuperca, Ionel (*with* El Alaoui Talibi, Mohamed; Jai, Mohammed) On the optimal control of coefficients in elliptic problems. Application to the optimization of the head slider. (English summary) **2005j:49003**
De Pascale, Luigi On a constrained shape optimization problem. (English summary) **2005h:49100**
El Alaoui Talibi, Mohamed *see* **Ciuperca, Ionel et al., 2005j:49003**
Filomeno Coelho, R. (*with* Bouillard, Philippe) A multicriteria evolutionary algorithm for mechanical design optimization with expert rules. (English summary)
Genovese, K. (*with* Lamberti, Luciano; Pappalettere, C.) Improved global-local simulated annealing formulation for solving non-smooth engineering optimization problems. (English summary)
Gumbert, Clyde R. (*with* Hou, Gene J. W.; Newman, Perry A.) High-fidelity computational optimization for 3-D flexible wings. I. Simultaneous aero-structural design optimization (SASDO). (English summary)
— (*with* Newman, Perry A.; Hou, Gene J. W.) High-fidelity computational optimization for 3-D flexible wings. II. Effect of random geometric uncertainty on design. (English summary)
Guzina, Bojan B. (*with* Bonnet, Marc) Topological derivative for the inverse scattering of elastic waves. (English summary) **2005a:74051**
Haftka, Raphael T. *see* **van Keulen, F. et al.**
Hou, Gene J. W. *see* **Gumbert, Clyde R. et al.**
Jai, Mohammed *see* **Ciuperca, Ionel et al., 2005j:49003**
Jin, Zhi-He Fracture mechanics of functionally graded materials. (English summary) **2005b:74113**
van Keulen, F. (*with* Haftka, Raphael T.; Kim, Nam H.) Review of options for structural design sensitivity analysis. I. Linear systems. (English summary)
Khoi, Vu Duc *see* **Nguyen-Dang Hung et al., (2005g:74002)**
Kim, B. J. *see* **Yeun, Y. S. et al.**
Kim, Nam H. *see* **van Keulen, F. et al.**
Kočvara, Michal (*with* Stingl, Michael) Solving nonconvex SDP problems of structural optimization with stability control. (English summary) **2005g:49058**
Lamberti, Luciano *see* **Genovese, K. et al.**
Lipton, Robert Stress constrained G closure and relaxation of structural design problems. (English summary) **2005b:74109**
Marotti de Sciarra, Francesco Nonlocal and gradient rate plasticity. (English summary) **2005f:74018**
Meckesheimer, Martin *see* **Booker, Andrew J. et al.**
Mijar, A. R. (*with* Arora, J. S.) An augmented Lagrangian optimization method for contact analysis problems. I. Formulation and algorithm. (English summary) **2005e:74042**
— (*with* Arora, J. S.) An augmented Lagrangian optimization method for contact analysis problems. II. Numerical evaluation. (English summary) **2005e:74043**
Nazarov, Sergei A. (*with* Sokołowski, Jan) Selfadjoint extensions for the elasticity system in shape optimization. (English summary) **2005m:49069**
— (*with* Sokołowski, Jan) The topological derivative of the Dirichlet integral under the formation of a thin bridge. (Russian. Russian summary) **2005c:35072**
Nečasová, Šárka *see* **Amrouche, Cherif et al., 2005k:49118**
Newman, Perry A. *see* **Gumbert, Clyde R. et al.**
Nguyen-Dang Hung (*with* Yan, Ai-Min; Khoi, Vu Duc) Duality in kinematic approaches of limit and shakedown analysis of structures. (English summary) (*see* **2005g:74002**)
Ortiz, Michael *see* **Thoutireddy, P., 2005b:74023**
Papadimitriou, Costas Optimal sensor placement methodology for parametric identification of structural systems. (English summary)
Pappalettere, C. *see* **Genovese, K. et al.**
Ruy, W. S. *see* **Yeun, Y. S. et al.**
Sokołowski, Jan *see* **Nazarov, Sergei A., 2005c:35072**; **2005m:49069** *and* **Amrouche, Cherif et al., 2005k:49118**
Stingl, Michael *see* **Kočvara, Michal, 2005g:49058**
Thoutireddy, P. (*with* Ortiz, Michael) A variational r-adaption and shape-optimization method for finite-deformation elasticity. (English summary) **2005b:74023**
Torng, Tony *see* **Booker, Andrew J. et al.**
Utkin, Lev V. An uncertainty model of structural reliability with imprecise parameters of probability distributions. (English summary)
Yan, Ai-Min *see* **Nguyen-Dang Hung et al., (2005g:74002)**
Yang, Youngsoon *see* **Yeun, Y. S. et al.**
Yeun, Y. S. (*with* Yang, Youngsoon; Ruy, W. S.; Kim, B. J.) Polynomial genetic programming for response surface modeling. I. A methodology. (English summary)
— (*with* Kim, B. J.; Yang, Youngsoon; Ruy, W. S.) Polynomial genetic programming for response surface modeling. II. Adaptive approximate models with probabilistic optimization problems. (English summary)

74Qxx Homogenization, determination of effective properties

Items with secondary classifications in 74Qxx

Craciun, Eduard-Marius *see* **Cristescu, Nicolae Dan et al., 2005k:74020**

Cristescu, Nicolae Dan (*with* Craciun, Eduard-Marius; Soós, Eugen) ★ Mechanics of elastic composites. **2005k:74020**

Soós, Eugen *see* **Cristescu, Nicolae Dan et al., 2005k:74020**

74Q05 Homogenization in equilibrium problems

Abdelmoula, Radhi (*with* Leger, Alain) Local and global effects of small holes periodically distributed on a surface embedded in an axisymmetrical elastic medium. (English summary) **2005h:74056**

Byström, Johan (*with* Dasht, Johan; Wall, Peter) A numerical study of the convergence in stochastic homogenization. (English summary) **2005g:74101**

Calderer, M. Carme *see* **Shen, Quan, 2005h:74057**

Chertock, Alina (*with* Levy, Doron) On wavelet-based numerical homogenization. (English summary) **2005i:74065**

Cioranescu, Doina (*with* Damlamian, Alain; De Arcangelis, Riccardo) Homogenization of nonlinear integrals via the periodic unfolding method. (English and French summaries) **2005d:74034**

Clementz, Ph. (*with* Pernin, J. N.) Homogenization modeling of capillary forces in selective laser sintering. (English summary) **2005b:74108**

Cui, Jun Zhi *see* **Li, Youyun, 2005c:74064**

Damlamian, Alain *see* **Cioranescu, Doina et al., 2005d:74034**

Dasht, Johan *see* **Byström, Johan et al., 2005g:74101**

De Arcangelis, Riccardo *see* **Cioranescu, Doina et al., 2005d:74034**

Garroni, Adriana (*with* Nesi, Vincenzo) Rigidity and lack of rigidity for solenoidal matrix fields. (English summary) **2005f:74070**

Leger, Alain *see* **Abdelmoula, Radhi, 2005h:74056**

Legoll, Frédéric Numerical homogenization of nonlinear viscoplastic two-dimensional polycrystals. (English summary) **2005m:74084**

Levy, Doron *see* **Chertock, Alina, 2005i:74065**

Li, Youyun (*with* Cui, Jun Zhi) Two-scale analysis method for predicting heat transfer performance of composite materials with random grain distribution. (English summary) **2005c:74064**

Lipton, Robert Stress constrained G closure and relaxation of structural design problems. (English summary) **2005b:74109**

Myasnikov, V. P. (*with* Zaslavskiĭ, M. Yu.; Pergament, A. Kh.) Averaging algorithms for solving problems in the theory of elasticity on rectilinear grids that are not adapted to the structure of the medium. (Russian)

Nesi, Vincenzo *see* **Garroni, Adriana, 2005f:74070**

Pergament, A. Kh. *see* **Myasnikov, V. P. et al.**

Pernin, J. N. *see* **Clementz, Ph., 2005b:74108**

Shen, Quan (*with* Calderer, M. Carme) A relaxed model and its homogenization for nematic liquid crystals in composite materials. (English summary) **2005h:74057**

Wall, Peter *see* **Byström, Johan et al., 2005g:74101**

Zaslavskiĭ, M. Yu. *see* **Myasnikov, V. P. et al.**

Zohdi, T. I. Statistical ensemble error bounds for homogenized microheterogeneous solids. (English summary) **2005k:74067**

Items with secondary classifications in 74Q05

Addou, Ahmed (*with* Lidouh, A.) Modélisation d'un problème de contact à trois corps par homogénéisation de frontière. (English and French summaries) [Modelling a three-body contact problem by boundary homogenization] **2005m:35016**

Ahmadi, Goodarz *see* **Marzbanrad, Javad et al., 2005e:93169**

Allaire, Grégoire (*with* Jouve, François; Maillot, Hervé) Topology optimization for minimum stress design with the homogenization method. (English summary) **2005f:74068**

Ansini, Nadia The nonlinear sieve problem and applications to thin films. (English summary) **2005f:35019**

— (*with* Braides, Andrea) Erratum to: "Asymptotic analysis of periodically-perforated nonlinear media" [J. Math. Pures Appl. (9) **81** (2002), no. 5, 439–451; MR1907765 (2003f:35015)]. (English summary) **2005h:35011**

Argatov, I. I. Pressure of a punch with a fine-grained boundary on an elastic base. (Russian. Russian summary) **2005f:74059**

Bellieud, Michel (*with* Gruais, Isabelle) Homogenization of an elastic material reinforced by very stiff or heavy fibers. Non-local effects. Memory effects. (English and French summaries) **2005k:35013**

Bendsøe, M. P. (*with* Sigmund, O.) ★ Topology optimization. **2005e:74046**

Billardon, René *see* **Daniel, Laurent et al., 2005m:74032**

Bouchitté, Guy (*with* Fragalà, Ilaria; Rajesh, M.) Homogenization of second order energies on periodic thin structures. (English summary) **2005c:35017**

Braides, Andrea (*with* Chiadò Piat, Valeria; Pyatnitskii, Andrei L.) A variational approach to double-porosity problems. **2005h:35013**

— *see also* **Ansini, Nadia, 2005h:35011**

Briane, Marc (*with* Milton, Graeme W.; Nesi, Vincenzo) Change of sign of the corrector's determinant for homogenization in three-dimensional conductivity. (English summary) **2005i:49015**

Canet, J. Miquel *see* **Zalamea, F. et al., 2005d:74011**

Carbone, Luciano (*with* Cioranescu, Doina; De Arcangelis, Riccardo; Gaudiello, Antonio) Homogenization of unbounded functionals and nonlinear elastomers. The case of the fixed constraints set. (English summary) **2005j:49008**

Cardone, G. (*with* Corbo Esposito, A.; Iosif'yan, G. A.; Zhikov, V. V.) Homogenization of some problems with gradient constraints. (English summary) **2005f:35022**

Casado Díaz, Juan (*with* Luna-Laynez, Manuel) Homogenization of the anisotropic heterogeneous linearized elasticity system in thin reticulated structures. (English summary) **2005h:35014**

Chechkin, G. A. (*with* Chechkina, T. P.) On the homogenization of problems of "Infusoria" type. (Russian. Russian summary) **2005d:35016**

Chechkina, T. P. *see* **Chechkin, G. A., 2005d:35016**

Chen, Jiun-Shyan (*with* Mehraeen, Shafigh) Variationally consistent multi-scale modeling and homogenization of stressed grain growth. (English summary) **2005b:74009**

Chen, Tungyang *see* **Lipton, Robert, 2005j:74052**

Chiadò Piat, Valeria (*with* Sandrakov, G. V.) Homogenization of some variational inequalities for elasto-plastic torsion problems. (English summary) **2005g:49013**

— (*with* Sandrakov, G. V.) Homogenization of variational inequalities that arise in the theory of elasticity-plasticity. (Russian)

— *see also* **Braides, Andrea et al., 2005h:35013**

Cioranescu, Doina Homogenization and applications to material sciences. (English summary) **2005c:35019**

— *see also* **Carbone, Luciano et al., 2005j:49008**

Conca, Carlos *see* **Timofte, Claudia, 2005h:35020**

Corbo Esposito, A. *see* **Cardone, G. et al., 2005f:35022**

Courilleau, P. (*with* Mossino, J.) Compensated compactness for nonlinear homogenization and reduction of dimension. (English summary) **2005e:35014**

Cui, Jun Zhi *see* **Feng, Yong-Ping, 2005g:74037**

Daniel, Laurent (*with* Hubert, Olivier; Billardon, René) Homogenisation of magneto-elastic behaviour: from the grain to the macro scale. (English summary) **2005m:74032**

De Arcangelis, Riccardo *see* **Carbone, Luciano et al., 2005j:49008**

Desmorat, B. (*with* Duvaut, G.) Optimization of the reinforcement of a 3D medium with thin composite plates. (English summary) **2005g:74098**

Duvaut, G. *see* **Desmorat, B., 2005g:74098**

E, Wei-nan (*with* Ming, Ping-bing) Analysis of multiscale methods. (English summary) **2005d:65188**

— (*with* Ming, Ping-bing; Zhang, Ping Wen) Analysis of the heterogeneous multiscale method for elliptic homogenization problems. **2005k:65246**

Federico, Salvatore (*with* Grillo, Alfio; Herzog, Walter) A transversely isotropic composite with a statistical distribution of spheroidal inclusions: a geometrical approach to overall properties. (English summary) **2005d:74010**

Feng, Yong-Ping (*with* Cui, Jun Zhi) Multi-scale analysis and FE computation for the structure of composite materials with small periodic configuration under condition of coupled thermoelasticity. (English summary) **2005g:74037**

Figueiredo, Isabel (*with* Trabucho, Luis) Asymptotic model of a nonlinear adaptive elastic rod. (English summary) **2005g:74076**

Fish, Jacob *see* **Oskay, Caglar**

Fragalà, Ilaria *see* **Bouchitté, Guy et al., 2005c:35017**

Freddi, Lorenzo (*with* Morassi, Antonino; Paroni, Roberto) Thin-walled beams: the case of the rectangular cross-section. (English summary) **2005k:74049**

Gaudiello, Antonio *see* **Carbone, Luciano et al., 2005j:49008**

Göktepe, S. *see* **Miehe, Christian et al., 2005e:74003**

Grillo, Alfio *see* **Federico, Salvatore et al., 2005d:74010**

Gruais, Isabelle *see* **Bellieud, Michel, 2005k:35013**

Gupta, Anurag *see* **Li, Shaofan et al., 2005b:74118**

Herzog, Walter *see* **Federico, Salvatore et al., 2005d:74010**

Hojjat, Yousef *see* **Marzbanrad, Javad et al., 2005e:93169**

Hubert, Olivier *see* **Daniel, Laurent et al., 2005m:74032**

Inan, E. *see* **Kiris, A.**

Iosif'yan, G. A. Homogenization of problems in the theory of elasticity with Signorini boundary conditions. (Russian. Russian summary) **2005g:35014**

— *see also* **Cardone, G. et al., 2005f:35022**

Jouve, François *see* **Allaire, Grégoire et al., 2005f:74068**

Kamiński, Marcin Homogenization-based finite element analysis of unidirectional composites by classical and multiresolutional techniques. (English summary) 2005k:65148

Kiris, A. (*with* Inan, E.) Eshelby tensors for a spherical inclusion in microelongated elastic fields. (English summary)

Le Dret, Hervé (*with* Meunier, Nicolas) Modeling heterogeneous martensitic wires. (English summary) **2005m:74077**

Li, Shaofan (*with* Gupta, Anurag; Liu, Xiaohu; Mahyari, Morteza) Variational eigenstrain multiscale finite element method. (English summary) **2005b:74118**

Lidouh, A. *see* **Addou, Ahmed, 2005m:35016**

Lipton, Robert Bounds on the distribution of extreme values for the stress in composite materials. (English summary) **2005a:74083**

— (*with* Chen, Tungyang) Bounds and extremal configurations for the torsional rigidity of coated fiber reinforced shafts. (English summary) **2005j:74052**

Liu, Xiaohu *see* **Li, Shaofan et al., 2005b:74118**

Lopez-Pamies, Oscar (*with* Ponte Castañeda, Pedro) Second-order estimates for the macroscopic response and loss of ellipticity in porous rubbers at large deformations. (English summary) **2005k:74012**

— (*with* Ponte Castañeda, Pedro) Second-order homogenization estimates incorporating field fluctuations in finite elasticity. (English summary) **2005b:74112**

Luciano, R. (*with* Willis, John R.) FE analysis of stress and strain fields in finite random composite bodies. (English summary) **2005m:74096**

Lulei, F. *see* **Miehe, Christian et al., 2005e:74003**

Luna-Laynez, Manuel *see* **Casado Díaz, Juan, 2005h:35014**

Mabrouk, Mongi (*with* Samadi, Hassan) Linear and semi-linear reinforcement problems by thin layers. (English summary) **2005a:35026**

Machado, G. (*with* Trabucho, Luis) Analytical and numerical solutions for a class of optimization problems in elasticity. (English summary) **2005g:74099**

Mahyari, Morteza *see* **Li, Shaofan et al., 2005b:74118**

Maillot, Hervé *see* **Allaire, Grégoire et al., 2005f:74068**

Marzbanrad, Javad (*with* Ahmadi, Goodarz; Zohoor, Hassan; Hojjat, Yousef) Stochastic optimal preview control of a vehicle suspension. (English summary) **2005e:93169**

Mehraeen, Shafigh *see* **Chen, Jiun-Shyan, 2005b:74009**

Meunier, Nicolas *see* **Le Dret, Hervé, 2005m:74077**

Miehe, Christian (*with* Göktepe, S.; Lulei, F.) A micro-macro approach to rubber-like materials. I. The non-affine micro-sphere model of rubber elasticity. (English summary) **2005e:74003**

Milton, Graeme W. *see* **Briane, Marc et al., 2005i:49015**
Ming, Ping-bing *see* **E, Wei-nan et al., 2005d:65188** *and* **2005k:65246**
Monsurrò, Sara Erratum for the paper: "Homogenization of a two-component composite with interfacial thermal barrier" [Adv. Math. Sci. Appl. **13** (2003), no. 1, 43–63; MR2002395 (2004i:35031)]. (English summary) **2005c:35021**
Morassi, Antonino *see* **Freddi, Lorenzo et al., 2005k:74049**
Mossino, J. *see* **Courilleau, P., 2005e:35014**
Nandakumaran, Akambadath K. Homogenization of certain spectral problems. (English summary) (*see* **2005d:47001**)
Nesi, Vincenzo *see* **Briane, Marc et al., 2005i:49015**
Oller, S. *see* **Zalamea, F. et al., 2005d:74011**
Oskay, Caglar (*with* Fish, Jacob) Fatigue life prediction using 2-scale temporal asymptotic homogenization. (English summary)
Overfelt, James R. *see* **Rodin, Gregory J., 2005i:65227**
Pak, Hee Chul Two-scale convergence for partial differential equations with random coefficients. (English summary) **2005d:35019**
Palombaro, Mariapia (*with* Ponsiglione, Marcello) The three divergence free matrix fields problem. (English summary) **2005h:35030**
Panasenko, Grigory The method of asymptotic partial decomposition of domain and partial homogenization. (English summary) **2005f:35028**
Paroni, Roberto *see* **Freddi, Lorenzo et al., 2005k:74049**
Pastukhova, S. E. Homogenization of problems in the theory of elasticity of periodic rod structures of critical width. (Russian)
— Homogenization of problems in the theory of elasticity on a periodic composite structure. (Russian) **2005h:35018**
— On the homogenization of problems in the theory of elasticity on composite structures. (Russian. English and Russian summaries) **2005m:35019**
Pedregal, Pablo Γ-convergence through Young measures. (English summary) **2005i:49016**
Pérez, Eugenia Vibrating systems with concentrated masses: on the high frequencies and the local problem. (English summary) (*see* **2005b:00020**)
Périn, Frédéric Bounds and asymptotic results for the effective viscosity of a nondilute suspension of oriented fibres in longitudinal flow. (English summary) **2005b:76132**
Ponsiglione, Marcello *see* **Palombaro, Mariapia, 2005h:35030**
Ponte Castañeda, Pedro *see* **Lopez-Pamies, Oscar, 2005b:74112** *and* **2005k:74012**
Pyatnitskii, Andrei L. *see* **Braides, Andrea et al., 2005h:35013**
Racila, Mihaela On the homogenized behavior of composites with periodic structure. (English summary) **2005a:35028**
Rajesh, M. *see* **Bouchitté, Guy et al., 2005c:35017**
Rodin, Gregory J. (*with* Overfelt, James R.) Periodic conduction problems: the fast multipole method and convergence of integral equations and lattice sums. (English summary) **2005i:65227**
Samadi, Hassan *see* **Mabrouk, Mongi, 2005a:35026**
Sandrakov, G. V. *see* **Chiadò Piat, Valeria, 2005g:49013**
Santos, Pedro Miguel (*with* Zappale, Elvira) Second-order analysis for thin structures. (English summary) **2005c:74054**
Sigmund, O. *see* **Bendsøe, M. P., 2005e:74046**
Sili, Ali Homogenization of a nonlinear monotone problem in an anisotropic medium. (English summary) **2005c:35023**
— Homogenization of an elastic medium reinforced by anisotropic fibers. (English summary) **2005k:35023**
Timofte, Claudia (*with* Conca, Carlos) Interactive oscillation sources in Signorini's type problems. (English summary) **2005h:35020**
Trabucho, Luis *see* **Figueiredo, Isabel, 2005g:74076** *and* **Machado, G., 2005g:74099**
Wang, Michael Yu (*with* Zhou, Shiwei) Phase field: a variational method for structural topology optimization. (English summary) **2005h:74055**
Willis, John R. *see* **Luciano, R., 2005m:74096**
Zalamea, F. (*with* Canet, J. Miquel; Oller, S.) ★Tratamiento numérico de materiales compuestos mediante la teoría de homogeneización. (Spanish) [Numerical treatment of composite materials by the homogenization method] **2005d:74011**
Zappale, Elvira *see* **Santos, Pedro Miguel, 2005c:74054**
Zhang, Ping Wen *see* **E, Wei-nan et al., 2005k:65246**
Zhikov, V. V. On two-scale convergence. (Russian. Russian summary) **2005h:35021**
— *see also* **Cardone, G. et al., 2005f:35022**
Zhou, Shiwei *see* **Wang, Michael Yu, 2005h:74055**
Zohoor, Hassan *see* **Marzbanrad, Javad et al., 2005e:93169**

74Q10 Homogenization and oscillations in dynamical problems

Bogan, Yu. A. On the averaging of a layered elastic medium with small dynamic dissipation on the interface of the layers. (Russian. Russian summary) **2005b:74110**
Fish, Jacob *see* **Yu, Qing, 2005i:74066**
Vala, Jiří The method of Rothe and two-scale convergence in nonlinear problems. (English summary) **2005a:74081**
Yu, Qing (*with* Fish, Jacob) Multiscale asymptotic homogenization for multiphysics problems with multiple spatial and temporal scales: a coupled thermo-viscoelastic example problem. (English summary) **2005i:74066**

Items with secondary classifications in 74Q10

Allaire, Grégoire (*with* Capdeboscq, Yves; Pyatnitskii, Andrei L.; Siess, Vincent; Vanninathan, M.) Homogenization of periodic systems with large potentials. (English summary) **2005k:35011**
Bellieud, Michel (*with* Gruais, Isabelle) Homogenization of an elastic material reinforced by very stiff or heavy fibers. Non-local effects. Memory effects. (English and French summaries) **2005k:35013**
Capdeboscq, Yves *see* **Allaire, Grégoire et al., 2005k:35011**
Chen, Wen[4] *see* **Fish, Jacob**
Efendiev, Yalchin R. (*with* Pankov, A. A.) Numerical homogenization of nonlinear random parabolic operators. (English summary) **2005a:76129**
Fish, Jacob (*with* Chen, Wen[4]) Space-time multiscale model for wave propagation in heterogeneous media. (English summary)
Gruais, Isabelle *see* **Bellieud, Michel, 2005k:35013**
Malík, Josef Mathematical modelling of cable stayed bridges: existence, uniqueness, continuous dependence on data, homogenization of cable systems. (English summary) **2005b:74054**
Meliani, Salha (*with* Paoli, Laetitia) Homogenization of a model of cure process for composites. (English summary) **2005c:35020**
— (*with* Panasenko, Grigory) Thermo-chemical modelling of the formation of a composite material. (English summary) **2005m:35148**
Panasenko, Grigory *see* **Meliani, Salha, 2005m:35148**
Pankov, A. A. *see* **Efendiev, Yalchin R., 2005a:76129**
Paoli, Laetitia *see* **Meliani, Salha, 2005c:35020**
Pyatnitskii, Andrei L. *see* **Allaire, Grégoire et al., 2005k:35011**
Siess, Vincent *see* **Allaire, Grégoire et al., 2005k:35011**
Vanninathan, M. *see* **Allaire, Grégoire et al., 2005k:35011**

74Q15 Effective constitutive equations

Grabovsky, Yury Algebra, geometry, and computations of exact relations for effective moduli of composites. (English summary) **2005c:74065**
Guadagnini, Alberto *see* **Tartakovskiĭ, D. M., 2005i:74067**
Tartakovskiĭ, D. M. (*with* Guadagnini, Alberto) Effective properties of random composites. (English summary) **2005i:74067**

Items with secondary classifications in 74Q15

Canet, J. Miquel *see* **Zalamea, F. et al., 2005d:74011**
Cioranescu, Doina (*with* Damlamian, Alain; De Arcangelis, Riccardo) Homogenization of nonlinear integrals via the periodic unfolding method. (English and French summaries) **2005d:74034**
Damlamian, Alain *see* **Cioranescu, Doina et al., 2005d:74034**
De Arcangelis, Riccardo *see* **Cioranescu, Doina et al., 2005d:74034**
Dubatovskaya, M. V. (*with* Rogozin, S. V.) On an exact description of the Schottky groups of symmetries. (English and Lithuanian summaries) **2005b:30043**
Huang, Mojia (*with* Man, Chi-Sing) Constitutive relation of elastic polycrystal with quadratic texture dependence. (English summary) **2005b:74030**
Jenkins, James T. (*with* Johnson, David Linton; La Ragione, L.; Makse, H.) Fluctuations and the effective moduli of an isotropic, random aggregate of identical, frictionless spheres. (English summary) **2005f:74025**
Johnson, David Linton *see* **Jenkins, James T. et al., 2005f:74025**
La Ragione, L. *see* **Jenkins, James T. et al., 2005f:74025**
Levy, Alan J. *see* **Xie, Mayue**
Lopez-Pamies, Oscar (*with* Ponte Castañeda, Pedro) Second-order estimates for the macroscopic response and loss of ellipticity in porous rubbers at large deformations. (English summary) **2005k:74012**
Makse, H. *see* **Jenkins, James T. et al., 2005f:74025**
Man, Chi-Sing *see* **Huang, Mojia, 2005b:74030**
Oller, S. *see* **Zalamea, F. et al., 2005d:74011**
Ponte Castañeda, Pedro *see* **Lopez-Pamies, Oscar, 2005k:74012**
Rogozin, S. V. *see* **Dubatovskaya, M. V., 2005b:30043**
Xie, Mayue (*with* Levy, Alan J.) On the torsion of a class of nonlinear fiber composite cylinders. (English summary)
Zalamea, F. (*with* Canet, J. Miquel; Oller, S.) ★Tratamiento numérico de materiales compuestos mediante la teoría de homogeneización. (Spanish) [Numerical treatment of composite materials by the homogenization method] **2005d:74011**

74Q20 Bounds on effective properties

Astala, Kari (*with* Nesi, Vincenzo) Composites and quasiconformal mappings: new optimal bounds in two dimensions. (English summary) **2005d:74035**
Cohen, Israel[1] Simple algebraic approximations for the effective elastic moduli of cubic arrays of spheres. (English summary) **2005c:74066**
Duan, H. L. (*with* Wang, Jianxiang; Huang, Zhu Ping; Karihaloo, B. L.) Size-dependent effective elastic constants of solids containing nano-inhomogeneities with interface stress. (English summary)
Fleck, Norman A. (*with* Willis, John R.) Bounds and estimates for the effect of strain gradients upon the effective plastic properties of an isotropic two-phase composite. (English summary) **2005b:74111**
Gutiérrez, Sergio Rank-three laminates are good approximants of the optimal microstructures for the diffusion problem in dimension two. (English summary) **2005a:74082**
— Laminations in planar anisotropic linear elasticity. (English summary) **2005k:74068**
Huang, Zhu Ping *see* **Duan, H. L. et al.**
Ilieva, Keranka *see* **Markov, Konstantin**
Karihaloo, B. L. *see* **Duan, H. L. et al.**
Lipton, Robert Bounds on the distribution of extreme values for the stress in composite materials. (English summary) **2005a:74083**
Lopez-Pamies, Oscar (*with* Ponte Castañeda, Pedro) Second-order homogenization estimates incorporating field fluctuations in finite elasticity. (English summary) **2005b:74112**
Markov, Konstantin (*with* Ilieva, Keranka) A generalization of the Voigt-Reuss bounds for a binary medium. (English summary)
Milton, Graeme W. (*with* Serkov, S. K.; Movchan, Alexander) Realizable (average stress, average strain) pairs in a plate with holes. (English summary) **2005a:74084**
Movchan, Alexander *see* **Milton, Graeme W. et al., 2005a:74084**
Nesi, Vincenzo *see* **Astala, Kari, 2005d:74035**
Peigney, Michaël A pattern-based method for bounding the effective response of a nonlinear composite. (English summary) **2005k:74069**
Pham Duc Chinh Bounds on the effective conductivity of two-dimensional N-component isotropic and symmetric cell mixtures. (English summary)
Ponte Castañeda, Pedro *see* **Lopez-Pamies, Oscar, 2005b:74112**
Procházka, Petr (*with* Šejnoha, Jiří) Extended Hashin-Shtrikman variational principles. (English summary) **2005f:74071**

Šejnoha, Jiří *see* **Procházka, Petr, 2005f:74071**
Serkov, S. K. *see* **Milton, Graeme W. et al., 2005a:74084**
Talbot, D. R. S. (*with* Willis, John R.) Bounds for the effective constitutive relation of a nonlinear composite. (English summary) **2005g:74102**
Wang, Jianxiang *see* **Duan, H. L. et al.**
Willis, John R. *see* **Fleck, Norman A., 2005b:74111** *and* **Talbot, D. R. S., 2005g:74102**

Items with secondary classifications in 74Q20

deBotton, G. Transversely isotropic sequentially laminated composites in finite elasticity. (English summary) **2005k:74019**
Garroni, Adriana (*with* Nesi, Vincenzo) Rigidity and lack of rigidity for solenoidal matrix fields. (English summary) **2005f:74070**
Nesi, Vincenzo *see* **Garroni, Adriana, 2005f:74070**

74Q99 None of the above, but in this section

Items with secondary classifications in 74Q99

Alicandro, Roberto (*with* Cicalese, Marco) A general integral representation result for continuum limits of discrete energies with superlinear growth. (English summary) **2005e:49022**
Babeshko, O. M. *see* **Babeshko, V. A.**
Babeshko, V. A. (*with* Babeshko, O. M.) The factorization method in boundary value problems in unbounded domains. (Russian)
Berlyand, Leonid (*with* Mityushev, V.) Increase and decrease of the effective conductivity of two phase composites due to polydispersity. (English summary) **2005k:74021**
Cicalese, Marco *see* **Alicandro, Roberto, 2005e:49022**
Grabovsky, Yury (*with* Hijab, Omar) A generalization of the Chandler Davis convexity theorem. (English summary) **2005g:74033**
Hijab, Omar *see* **Grabovsky, Yury, 2005g:74033**
Mityushev, V. *see* **Berlyand, Leonid, 2005k:74021**
Pham Duc Chinh Effective medium approximations for conductivity of quasisymmetric completely-random inhomogeneous media. (English summary) **2005g:74035**

74Rxx Fracture and damage

Jin, Zhi-He Fracture mechanics of functionally graded materials. (English summary) **2005b:74113**

Items with secondary classifications in 74Rxx

(Gdoutos, E. E.) *see* **Problems of fracture mechanics and fatigue, 2005a:74001**
(Rodopoulos, C. A.) *see* **Problems of fracture mechanics and fatigue, 2005a:74001**
(Yates, J. R.) *see* **Problems of fracture mechanics and fatigue, 2005a:74001**

Items listed otherwise than by author

Problems of fracture mechanics and fatigue ★ Problems of fracture mechanics and fatigue. **2005a:74001**

74R05 Brittle damage

De Proft, K. (*with* Sluys, L. J.; De Wilde, W. P.) A discrete model for cyclic mode I loading. (English summary)
De Wilde, W. P. *see* **De Proft, K. et al.**
Sluys, L. J. *see* **De Proft, K. et al.**

Items with secondary classifications in 74R05

Borouchaki, H. (*with* Laug, Patrick; Cherouat, A.; Saanouni, Khémais) Adaptive remeshing in large plastic strain with damage. (English summary)
Cherouat, A. *see* **Borouchaki, H. et al.**
Konchakova, N. A. On the construction of continua with nonsymmetric tensors. (Russian. Russian summary) **2005b:74015**
Laug, Patrick *see* **Borouchaki, H. et al.**
Saanouni, Khémais *see* **Borouchaki, H. et al.**

74R10 Brittle fracture

Antipov, Yuri A. (*with* Obrezanova, O.; Willis, John R.) A fracture criterion of "Barenblatt" type for an intersonic shear crack. (English summary) **2005a:74085**
Bonetti, Elena (*with* Frémond, Michel) Collisions and fractures: a model in SBD. (English and Italian summaries) **2005k:74070**
— (*with* Frémond, Michel) Collisions and fracture: a 1-D theory. How to tear off a chandelier from the ceiling. (English summary) **2005e:74047**
Bui, Huy Duong (*with* Oueslati, A.) The sliding interface crack with friction between elastic and rigid bodies. (English summary) **2005k:74071**
Chen, Cheng-Hung *see* **Chen, Wen-Hwa**
Chen, Wen-Hwa (*with* Chen, Cheng-Hung) On three-dimensional fracture mechanics analysis by an enriched meshless method. (English summary)
Chen, Yi Zhou (*with* Lin, Xiao-yun; Wang, Zhong Xian[2]) Solution of Zener-Stroh arc crack problem in plane elasticity. (English summary)
Colombo, Fabrizio (*with* Tomarelli, Franco) Boundary value problems and obstacle problem for elastic bodies with free cracks. **2005m:74085**
Cox, Brian N. (*with* Gao, Huajian; Gross, Dietmar; Rittel, Daniel) Modern topics and challenges in dynamic fracture. (English summary)
Craciun, Eduard-Marius Antiplane fracture analysis of a crack in a monoclinic composite. (English summary)
Dal Maso, Gianni (*with* Francfort, Gilles A.; Toader, Rodica) Quasi-static evolution in brittle fracture: the case of bounded solutions. **2005m:74086**
Das, A. N. Uniform extension of a crack in an elastic wedge. (English summary)
Das, Subir (*with* Debnath, Lokenath) Interaction of moving interfacial cracks between bonded dissimilar elastic strips under antiplane shear. (English summary)
Debnath, Lokenath *see* **Das, Subir**
Dhaliwal, R. S. *see* **Vrbik, J. et al.**
Duflot, Marc (*with* Nguyen-Dang, Hung) Fatigue crack growth analysis by an enriched meshless method. (English summary)
Englund, Jonas Stable algorithm for the stress field around a multiply branched crack. (English summary)
Feijóo, Raúl A. *see* **Saliba, Roberto et al., 2005m:74089**
Francfort, Gilles A. *see* **Dal Maso, Gianni et al., 2005m:74086**
Frémond, Michel *see* **Bonetti, Elena, 2005e:74047** *and* **2005k:74070**
Gao, Huajian *see* **Cox, Brian N. et al.**
Gecit, Mehmet Rusen *see* **Yetmez, Mehmet**
Gross, Dietmar *see* **Cox, Brian N. et al.**
Ing, Yi-Shyong (*with* Ma, Chien-Ching) Exact transient full-field analysis of a finite crack subjected to dynamic anti-plane concentrated loadings in anisotropic materials. (English summary)
Kotousov, Andrei An application of the Kane and Mindlin theory to crack problems in plates of arbitrary thickness. (English summary)
Krasucki, Francoise (*with* Münch, Arnaud; Ousset, Yves) Numerical simulation of debonding of adhesively bonded joint. (English summary) **2005i:74068**
Legrain, G. (*with* Moës, N.; Verron, E.) Stress analysis around crack tips in finite strain problems using the eXtended finite element method. (English summary)
Lennon, A. B. (*with* Prendergast, P. J.) Modelling damage growth and failure in elastic materials with random defect distributions. (English summary) **2005m:74087**
Li, Xian Fang Two perfectly-bonded dissimilar orthotropic strips with an interfacial crack normal to the boundaries. (English summary)
— Erratum to: "Two perfectly-bonded dissimilar orthotropic strips with an interfacial crack normal to the boundaries" [Appl. Math. Comput. **163** (2005), no. 2, 961–975; MR2121840]. (English summary)
Lin, Xiao-yun *see* **Chen, Yi Zhou et al.**
Ma, Chien-Ching *see* **Ing, Yi-Shyong**
Mariano, Paolo Maria Influence of the material substructure on crack propagation: a unified treatment. (English summary) **2005j:74053**
Marigo, Jean-Jacques (*with* Truskinovsky, Lev) Initiation and propagation of fracture in the models of Griffith and Barenblatt. (English summary) **2005b:74114**
Matbuly, M. S. Dynamic crack propagation between two bonded orthotropic plates.
Minnaar, Karel (*with* Zhou, Min[1]) A novel technique for time-resolved detection and tracking of interfacial and matrix fracture in layered materials. (English summary)
Moës, N. *see* **Legrain, G. et al.**
Mosler, J. On advanced solution strategies to overcome locking effects in strong discontinuity approaches. (English summary) **2005m:74088**
Münch, Arnaud *see* **Krasucki, Francoise et al., 2005i:74068**
Narita, F. *see* **Shindo, Yasuhide**
Nguyen-Dang, Hung *see* **Duflot, Marc**
Obrezanova, O. *see* **Antipov, Yuri A. et al., 2005a:74085**
Oleaga, Gerardo E. On the path of a quasi-static crack in mode III. (English summary) **2005k:74072**
Oueslati, A. *see* **Bui, Huy Duong, 2005k:74071**
Ousset, Yves *see* **Krasucki, Francoise et al., 2005i:74068**
Padra, Claudio *see* **Saliba, Roberto et al., 2005m:74089**
Prendergast, P. J. *see* **Lennon, A. B., 2005m:74087**
Rittel, Daniel *see* **Cox, Brian N. et al.**
Rokne, J. *see* **Vrbik, J. et al.**
Saliba, Roberto (*with* Padra, Claudio; Vénere, Marcelo J.; Taroco, Edgardo; Feijóo, Raúl A.) Adaptivity in linear elastic fracture mechanics based on shape sensitivity analysis. (English summary) **2005m:74089**
Shindo, Yasuhide (*with* Narita, F.) The planar crack problem for a dielectric medium in a uniform electric field. (English summary)
Sil'vestrov, V. V. The method of Riemann surfaces in the problem of interface cracks and inclusions under concentrated forces. (Russian) **2005i:74069**
Singh, Brij M. *see* **Vrbik, J. et al.**
Slepyan, Leonid Crack in a material-bond lattice. (English summary) 2005m:74090
Srolovitz, D. J. *see* **Sukumar, N.**
Sukumar, N. (*with* Srolovitz, D. J.) Finite element-based model for crack propagation in polycrystalline materials. (English summary)
Tadmor, E. B. A Peierls criterion for deformation twinning at a mode II crack. (English summary) (*see* **2005d:65007**)
Taroco, Edgardo *see* **Saliba, Roberto et al., 2005m:74089**
Toader, Rodica *see* **Dal Maso, Gianni et al., 2005m:74086**
Tomarelli, Franco *see* **Colombo, Fabrizio, 2005m:74085**
Truskinovsky, Lev *see* **Marigo, Jean-Jacques, 2005b:74114**
Vaĭsfel'd, N. D. A nonstationary problem of stress concentration near a spherical crack located inside a truncated cone. (Ukrainian. English, Russian and Ukrainian summaries)
Vénere, Marcelo J. *see* **Saliba, Roberto et al., 2005m:74089**
Verron, E. *see* **Legrain, G. et al.**
Vrbik, J. (*with* Singh, Brij M.; Rokne, J.; Dhaliwal, R. S.) On the expansion of a penny-shaped crack by a rigid circular disc inclusion in a thick plate. (English summary)
Wang, Zhong Xian[2] *see* **Chen, Yi Zhou et al.**
Willis, John R. *see* **Antipov, Yuri A. et al., 2005a:74085**
Yang, Fuqian General solutions of a penny-shaped crack in a piezoelectric material under opening mode loading. (English summary)
Yetmez, Mehmet (*with* Gecit, Mehmet Rusen) Finite strip with a central crack under tension. (English summary)
Zhou, Min[1] *see* **Minnaar, Karel**

Items with secondary classifications in 74R10

Aghili, Arman Griffith crack and mixed boundary value problem of the first kind. (English summary)
Ariza, M. P. *see* **Solís, Mario et al., (2005d:65006)**
Ascenzi, Oscar (*with* Pareschi, Lorenzo; Segala, Fausto) Convergence of a quadrature formula for the approximation of stress intensity factor for planar cracks. (English

summary) **2005g:74048**

Baesu, Eveline *see* **Craciun, Eduard-Marius et al., 2005j:74015**

Bängtsson, Erik (*with* Neytcheva, Maya) Algebraic preconditioning versus direct solvers for dense linear systems as arising in crack propagation problems. (English summary)

Beltrame, Ph. Modelisation of thin cracks with varying conductivity in eddy-current testing. (English summary)

Bonetti, Elena (*with* Frémond, Michel) Collisions and fracture. (English summary) **2005i:74060**

Braides, Andrea (*with* Defranceschi, Anneliese; Vitali, Enrico) Relaxation of elastic energies with free discontinuities and constraint on the strain. (English summary) **2005a:74039**

Brokate, Martin (*with* Khludnev, A. M.) On crack propagation shapes in elastic bodies. (English summary) **2005a:74013**

Brož, P. Progress of BE fatigue fracture solutions. (English summary) (*see* **2005d:65006**)

Chambolle, Antonin A density result in two-dimensional linearized elasticity, and applications. (English summary) **2005i:74064**

— An approximation result for special functions with bounded deformation. (English and French summaries) **2005d:49066**

— Addendum to: "An approximation result for special functions with bounded deformation" [J. Math. Pures Appl. (9) **83** (2004), no. 7, 929–954; MR2074682 (2005d:49066)]. (English and French summaries) **2005h:49103**

Combescure, A. *see* **Réthoré, Julien et al.**

Craciun, Eduard-Marius (*with* Baesu, Eveline; Soós, Eugen) General solution in terms of complex potentials for incremental antiplane states in prestressed and prepolarized piezoelectric crystals: application to Mode III fracture propagation. (English summary) **2005j:74015**

— *see also* **Cristescu, Nicolae Dan et al., 2005k:74020**

Cristescu, Nicolae Dan (*with* Craciun, Eduard-Marius; Soós, Eugen) ★ Mechanics of elastic composites. **2005k:74020**

Defranceschi, Anneliese *see* **Braides, Andrea et al., 2005a:74039**

Dhaliwal, R. S. *see* **Singh, Brij M. et al.**

Domínguez, José *see* **Solís, Mario et al., (2005d:65006)**

Dong, Chunying (*with* Lee, Kang Yong) A new integral equation formulation of two-dimensional inclusion-crack problems. (English summary)

El-Zafrany, A. *see* **Franco-Nava, J. M., (2005d:65006)**

Franco-Nava, J. M. (*with* El-Zafrany, A.) Hyper-singular boundary element method for elastic fracture mechanics analysis with large deformation. (English summary) (*see* **2005d:65006**)

Frémond, Michel *see* **Bonetti, Elena, 2005i:74060**

Germanovich, L. N. *see* **Puzrin, A. M.**

Giacomini, Alessandro (*with* Ponsiglione, Marcello) A discontinuous finite element approximation of quasi-static growth of brittle fractures. (English summary) **2005a:65130**

Gravouil, A. *see* **Réthoré, Julien et al.**

Hintermüller, Michael (*with* Kovtunenko, V. A.; Kunisch, Karl) Generalized Newton methods for crack problems with nonpenetration condition. (English summary) **2005k:49090**

Huespe, A. E. *see* **Oliver, Javier, 2005a:74010**

Itou, Hiromichi (*with* Tani, Atusi) Existence of a weak solution in an infinite viscoelastic strip with a semi-infinite crack. (English summary) **2005c:35280**

Khludnev, A. M. Invariant integrals in problems of a crack at the junction of an inhomogeneity and in contact problems. (Russian) **2005j:74018**

— *see also* **Brokate, Martin, 2005a:74013**

Kim, Yongsik *see* **Lee, Sang-Ho[3] et al.**

Koĭsin, V. E. *see* **Skvortsov, V. R. et al., 2005m:74059**

Konchakova, N. A. On the construction of continua with nonsymmetric tensors. (Russian. Russian summary) **2005b:74015**

Kovtunenko, V. A. Shape sensitivity of curvilinear cracks on interface to non-linear perturbations. (English summary) **2005a:35111**

— Nonconvex problem for crack with nonpenetration. (English summary) **2005k:49005**

— *see also* **Hintermüller, Michael et al., 2005k:49090**

Krakhmalev, S. Yu. *see* **Skvortsov, V. R. et al., 2005m:74059**

Kunisch, Karl *see* **Hintermüller, Michael et al., 2005k:49090**

Lee, Kang Yong *see* **Dong, Chunying**

Lee, Sang-Ho[3] (*with* Yoon, Young-Cheol; Kim, Yongsik) New local near-tip functions for the element-free Galerkin method. (English summary)

Lynch, J. D. (*with* Padgett, William J.) Reliability models motivated by failure of brittle fibers and composites. (English summary) (*see* **2005a:62018**)

Morini, Massimiliano Sequences of singularly perturbed functionals generating free-discontinuity problems. (English summary) **2005a:49023**

Mosler, J. On the modeling of highly localized deformations induced by material failure: the strong discontinuity approach. (English summary) **2005g:74049**

Neytcheva, Maya *see* **Bängtsson, Erik**

Oliver, Javier (*with* Huespe, A. E.) Continuum approach to material failure in strong discontinuity settings. (English summary) **2005a:74010**

Padgett, William J. *see* **Lynch, J. D., (2005a:62018)**

Palazotto, A. N. *see* **Perel, V. Y., 2005b:74074**

Pareschi, Lorenzo *see* **Ascenzi, Oscar et al., 2005g:74048**

Peirce, A. P. (*with* Siebrits, E.) A dual mesh multigrid preconditioner for the efficient solution of hydraulically driven fracture problems. (English summary)

Perel, V. Y. (*with* Palazotto, A. N.) A nonlinear model of composite delaminated beam with piezoelectric actuator, with account of nonpenetration constraint for the delamination crack faces. (English summary) **2005b:74074**

Ponsiglione, Marcello *see* **Giacomini, Alessandro, 2005a:65130**

Puzrin, A. M. (*with* Germanovich, L. N.) The growth of shear bands in the catastrophic failure of soils. (English summary)

Réthoré, Julien (*with* Gravouil, A.; Combescure, A.) An energy-conserving scheme for dynamic crack growth using the eXtended finite element method. (English summary)

Rokne, J. *see* **Singh, Brij M. et al.**

Rudoĭ, E. M. Invariant integrals for the equilibrium problem for a plate with a crack. (Russian. Russian summary) **2005g:74078**

Segala, Fausto *see* **Ascenzi, Oscar et al., 2005g:74048**

Siebrits, E. *see* **Peirce, A. P.**

Singh, Brij M. (*with* Rokne, J.; Dhaliwal, R. S.) Closed-form solutions for a rectangular layer with central crack under anti-plane shear stress. (English summary)

Skvortsov, V. R. (*with* Koĭsin, V. E.; Krakhmalev, S. Yu.) Dynamic interaction of a rigid body with a plate on an elastic layer and a half-space. (Russian. Russian summary) **2005m:74059**

Solís, Mario (*with* Ariza, M. P.; Domínguez, José) Time harmonic and static crack problems in 3-D transversely isotropic bodies. (English summary) (*see* **2005d:65006**)

Soós, Eugen *see* **Craciun, Eduard-Marius et al., 2005j:74015** *and* **Cristescu, Nicolae Dan et al., 2005k:74020**

Tani, Atusi *see* **Itou, Hiromichi, 2005c:35280**

Vitali, Enrico *see* **Braides, Andrea et al., 2005a:74039**

Yoon, Young-Cheol *see* **Lee, Sang-Ho[3] et al.**

74R15 High-velocity fracture

Abraham, Farid F. *see* **Buehler, Markus J. et al., (2005d:65007)**

Buehler, Markus J. (*with* Abraham, Farid F.; Gao, Huajian) Stress and energy flow field near a rapidly propagating mode I crack. (English summary) (*see* **2005d:65007**)

Gao, Huajian *see* **Buehler, Markus J. et al., (2005d:65007)**

74R20 Anelastic fracture and damage

Atkinson, Colin *see* **Chen, Ching-Yu, 2005i:74070**

Chen, Ching-Yu (*with* Atkinson, Colin) The influence of layer thickness on the stress intensity factor of a penny-shaped crack in a sandwiched viscoelastic bimaterial. (English summary) **2005i:74070**

Gao, Huajian *see* **Nguyen, T. D. et al., 2005f:74072**

Govindjee, Sanjay *see* **Nguyen, T. D. et al., 2005f:74072**

Klein, P. A. *see* **Nguyen, T. D. et al., 2005f:74072**

Nguyen, T. D. (*with* Govindjee, Sanjay; Klein, P. A.; Gao, Huajian) A material force method for inelastic fracture mechanics. (English summary) **2005f:74072**

74R99 None of the above, but in this section

Aleshin, Vladislav V. (*with* Van Den Abeele, K.) Micro-potential model for stress-strain hysteresis of micro-cracked materials. (English summary) **2005i:74071**

Babeshko, O. M. *see* **Babeshko, V. A.**

Babeshko, V. A. (*with* Babeshko, O. M.) The factorization method in the theory of viruses of vibrational stability. (Russian)

Cheng, Jin[1] *see* **Lü, Nian Chun et al.**

Cheng, Y. H. *see* **Lü, Nian Chun et al.**

Fish, Jacob *see* **Oskay, Caglar**

Jirásek, Milan (*with* Marfia, S.) Non-local damage model based on displacement averaging. (English summary)

Lü, Nian Chun (*with* Cheng, Jin[1]; Cheng, Y. H.) A dynamic model of bridging fiber pull-out of composite materials. (English summary)

Marfia, S. *see* **Jirásek, Milan**

Oliver, X. ★ Topics on failure mechanics. **2005a:74086**

Oskay, Caglar (*with* Fish, Jacob) Fatigue life prediction using 2-scale temporal asymptotic homogenization. (English summary)

Van Den Abeele, K. *see* **Aleshin, Vladislav V., 2005i:74071**

Wang, Yin Bang *see* **Zhang, Zhao Xia et al.**

Yang, Shu Hua *see* **Zhang, Zhao Xia et al.**

Zhang, Zhao Xia (*with* Wang, Yin Bang; Yang, Shu Hua) A new boundary integral equations for half plane elastic bodies containing cracks. (Chinese. English and Chinese summaries)

Items with secondary classifications in 74R99

Belytschko, Ted *see* **Xiao, Shao Ping, 2005j:74057**

Bonetti, Elena (*with* Frémond, Michel) Damage theory: microscopic effects of vanishing macroscopic motions. (English summary) **2005b:74008**

— (*with* Frémond, Michel) Collisions and fractures: a model in SBD. (English and Italian summaries) **2005k:74070**

— (*with* Schimperna, Giulio) Local existence for Frémond's model of damage in elastic materials. (English summary) **2005d:74001**

Cocou, Marius (*with* Scarella, Gilles) Existence of a solution to a dynamic unilateral contact problem for a cracked viscoelastic body. (English and French summaries) **2005c:74059**

Conti, Sergio (*with* DeSimone, Antonio; Müller, Stefan[1]) Self-similar folding patterns and energy scaling in compressed elastic sheets. (English summary) **2005k:74056**

Contrafatto, L. (*with* Cuomo, M.) A globally convergent numerical algorithm for damaging elasto-plasticity based on the multiplier method. (English summary)

Cooper, Kevin D. *see* **Pansuwan, A. et al., 2005m:82169**

Cuomo, M. *see* **Contrafatto, L.**

DeSimone, Antonio *see* **Conti, Sergio et al., 2005k:74056**

Fernández García, José Ramón (*with* Sofonea, Mircea) Variational and numerical analysis of the Signorini's contact problem in viscoplasticity with damage. **2005e:74040**

Frémond, Michel *see* **Bonetti, Elena, 2005b:74008** *and* **2005k:74070**

Frommer, Andreas *see* **Qiu, Zhi Ping[1] et al., 2005e:93088**

Harrison, L. *see* **Pansuwan, A. et al., 2005m:82169**

Hori, Muneo (*with* Oguni, Kenji; Sakaguchi, Hide) Proposal of FEM implemented with particle discretization for analysis of failure phenomena. (English summary)

Iliescu, T. Genuinely nonlinear models for convection-dominated problems. (English summary) **2005h:76064**

Ireman, Peter J. Algorithms for gradient damage models based on a semi-smooth Newton method. (English summary)

Lenbury, Yongwimon *see* **Pansuwan, A. et al., 2005m:82169**

Lenci, Stefano Elastic and damage longitudinal shear behavior of highly concentrated long fiber composites. (English summary) **2005g:74034**
Mosler, J. On the modeling of highly localized deformations induced by material failure: the strong discontinuity approach. (English summary) **2005g:74049**
Müller, Peter C. *see* **Qiu, Zhi Ping[1] et al., 2005e:93088**
Müller, Stefan[1] *see* **Conti, Sergio et al., 2005k:74056**
Nukala, Phani Kumar V. V. (*with* Simunovic, Srdan) An efficient block-circulant preconditioner for simulating fracture using large fuse networks. (English summary) **2005i:65051**
Oguni, Kenji *see* **Hori, Muneo et al.**
Pansuwan, A. (*with* Rattanakul, C.; Lenbury, Yongwimon; Wollkind, D. J.; Harrison, L.; Rajapakse, I.; Cooper, Kevin D.) Nonlinear stability analyses of pattern formation on solid surfaces during ion-sputtered erosion. (English summary) **2005m:82169**
Peigney, Michaël Simulating wear under cyclic loading by a minimization approach. (English summary) **2005f:74063**
Qiu, Zhi Ping[1] (*with* Müller, Peter C.; Frommer, Andreas) The new nonprobabilistic criterion of failure for dynamical systems based on convex models. (English summary) **2005e:93088**
Rajapakse, I. *see* **Pansuwan, A. et al., 2005m:82169**
Rattanakul, C. *see* **Pansuwan, A. et al., 2005m:82169**
(Saanouni, Khémais) *see* **Numerical modelling in damage mechanics, 2005b:74002**
Sakaguchi, Hide *see* **Hori, Muneo et al.**
Scarella, Gilles *see* **Cocou, Marius, 2005c:74059**
Scarpetta, Edoardo Analytical results for wave propagation through elastic solids with defects of arbitrary shape periodically distributed. (English summary) **2005h:74029**
Schimperna, Giulio *see* **Bonetti, Elena, 2005d:74001**
Shillor, Meir (*with* Sofonea, Mircea; Telega, J. Joachim) Quasistatic viscoelastic contact with friction and wear diffusion. (English summary) **2005b:74093**
Simunovic, Srdan *see* **Nukala, Phani Kumar V. V., 2005i:65051**
Sofonea, Mircea *see* **Shillor, Meir et al., 2005b:74093** *and* **Fernández García, José Ramón, 2005e:74040**
Telega, J. Joachim *see* **Shillor, Meir et al., 2005b:74093**
Wollkind, D. J. *see* **Pansuwan, A. et al., 2005m:82169**
Xiao, Shao Ping (*with* Belytschko, Ted) Material stability analysis of particle methods. (English summary) **2005j:74057**

Items listed otherwise than by author

Numerical modelling in damage mechanics ★ Numerical modelling in damage mechanics. **2005b:74002**
Troyes ★ Numerical modelling in damage mechanics. **2005b:74002**

74Sxx Numerical methods [see also 65–XX, 74G15, 74H15]

Items with secondary classifications in 74Sxx

Doltsinis, Ioannis ★ Large deformation processes of solids. **2005a:74018**
Karpov, Eduard G. *see* **Liu, Wing Kam et al., 2005c:74005**
Ladevèze, Pierre (*with* Pelle, Jean-Pierre) ★ Mastering calculations in linear and nonlinear mechanics. **2005k:74034**
Liu, Wing Kam (*with* Karpov, Eduard G.; Zhang, Sulin; Park, Harold S.) An introduction to computational nanomechanics and materials. (English summary) **2005c:74005**
Park, Harold S. *see* **Liu, Wing Kam et al., 2005c:74005**
Pelle, Jean-Pierre *see* **Ladevèze, Pierre, 2005k:74034**
(Saanouni, Khémais) *see* **Numerical modelling in damage mechanics, 2005b:74002**
(Strouboulis, Theofanis) *see* **Ladevèze, Pierre, 2005k:74034**
Zhang, Sulin *see* **Liu, Wing Kam et al., 2005c:74005**

Items listed otherwise than by author

Numerical modelling in damage mechanics ★ Numerical modelling in damage mechanics. **2005b:74002**
Troyes ★ Numerical modelling in damage mechanics. **2005b:74002**

74S05 Finite element methods

Aggoune, Wassila (*with* Zahrouni, Hamid; Potier-Ferry, Michel) High-order prediction-correction algorithms for unilateral contact problems. (English summary)
Auricchio, Ferdinando (*with* Beirão da Veiga, L.; Lovadina, Carlo; Reali, A.) A stability study of some mixed finite elements for large deformation elasticity problems. (English summary) **2005i:74072**
— (*with* Beirão da Veiga, L.; Lovadina, Carlo; Reali, A.) An analysis of some mixed-enhanced finite element for plane linear elasticity. (English summary) **2005m:74091**
Baeza, L. *see* **Tarancón, José Enrique et al.**
Barboteu, Mikaël *see* **Hoarau-Mantel, Thierry-Vincent**
Basu, Ushnish (*with* Chopra, Anil K.) Erratum to: "Perfectly matched layers for transient elastodynamics of unbounded domains" [Internat. J. Numer. Methods Engrg. **59** (2004), no. 8, 1039–1074; MR2034773]. **Bathe, Klaus-Jürgen** *see* **Grätsch, Thomas, 2005h:74059; 2005m:74093** *and* **Hong, Jung-Wuk, 2005k:74075**
Bécache, Eliane (*with* Ezziani, Abdelaâziz; Joly, Patrick) A mixed finite element approach for viscoelastic wave propagation. (English summary) **2005k:74073**
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Beirão da Veiga, L. Optimal error bounds for the MITC4 plate bending element. (English summary) **2005h:74058**
— *see also* **Auricchio, Ferdinando et al., 2005i:74072** *and* **2005m:74091**
Bělík, Pavel (*with* Luskin, Mitchell) A computational model for martensitic thin films with compositional fluctuation. (English summary) **2005i:74073**
Belytschko, Ted *see* **Samaniego, Esteban, 2005j:74055**
Boroomand, B. (*with* Ghaffarian, M.; Zienkiewicz, O. C.) On application of two superconvergent recovery procedures to plate problems. (English summary)
Borouchaki, H. (*with* Laug, Patrick; Cherouat, A.; Saanouni, Khémais) Adaptive remeshing in large plastic strain with damage. (English summary)
Braess, Dietrich (*with* Ming, Ping-bing) A finite element method for nearly incompressible elasticity problems. (English summary) **2005f:74073**
Brezzi, F. (*with* Marini, L. D.) A nonconforming element for the Reissner-Mindlin plate. (English summary) **2005f:74074**
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Chen, Wan Ji *see* **Soh, Ai-Kah**
Cherouat, A. *see* **Borouchaki, H. et al.**
Chiroux, Robert C. (*with* Foster, Winfred A., Jr.; Johnson, Clarence E.; Shoop, S. A.; Raper, R. L.) Three-dimensional finite element analysis of soil interaction with a rigid wheel.
— *see also* **Foster, Winfred A., Jr. et al.**
Cho, Joon-Yeoun *see* **Idesman, A. V. et al., 2005h:74060**
Chopra, Anil K. *see* **Basu, Ushnish**
Combescure, A. *see* **Réthoré, Julien et al.**
Contrafatto, L. (*with* Cuomo, M.) A globally convergent numerical algorithm for damaging elasto-plasticity based on the multiplier method. (English summary)
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Dostál, Zdeněk (*with* Horák, David; Kučera, Radek; Vondrák, Vít; Haslinger, Jaroslav; Dobiáš, Jiří; Pták, Svatopluk) FETI based algorithms for contact problems: scalability, large displacements and 3D Coulomb friction. (English summary) **2005g:74103**
Duan, Huo-Yuan (*with* Lin, Qun[1]) Mixed finite elements of least-squares type for elasticity. (English summary) **2005j:74054**
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Feng, Xiaobing (*with* Prohl, Andreas) Analysis of a fully discrete finite element method for the phase field model and approximation of its sharp interface limits. (English summary) **2005b:74115**
Feng, Zhi-Qiang *see* **Hjiaj, Mohammed et al., 2005a:74087**
Flemisch, Bernd (*with* Puso, Michael A.; Wohlmuth, Barbara I.) A new dual mortar method for curved interfaces: 2D elasticity. (English summary) **2005m:74092**
Fok, S. L. *see* **Leung, Andrew Y. T. et al.**
Foster, Winfred A., Jr. (*with* Johnson, Clarence E.; Chiroux, Robert C.; Way, Tom R.) Finite element simulation of cone penetration. (English summary)
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Gadala, M. S. Recent trends in ALE formulation and its applications in solid mechanics. (English summary)
Ghaffarian, M. *see* **Boroomand, B. et al.**
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— (*with* Bathe, Klaus-Jürgen) Influence functions and goal-oriented error estimation for finite element analysis of shell structures. (English summary) **2005m:74093**
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Hjiaj, Mohammed (*with* Feng, Zhi-Qiang; de Saxcé, Géry; Mróz, Z.) Three-dimensional finite element computations for frictional contact problems with non-associated sliding rule. (English summary) **2005a:74087**
Hoarau-Mantel, Thierry-Vincent (*with* Barboteu, Mikaël) Un schéma de prédiction-correction pour un problème hypervisco-élastique en grandes déformations avec contact et frottement. (French summary) [A prediction-correction scheme for a large deformation hyperviscoelastic contact problem with friction]
Holzapfel, Gerhard A. *see* **Stadler, Michael, 2005a:74090**
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Hori, Muneo (*with* Oguni, Kenji; Sakaguchi, Hide) Proposal of FEM implemented with particle discretization for analysis of failure phenomena. (English summary)
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Idesman, A. V. (*with* Levitas, V. I.; Preston, D. L.; Cho, Joon-Yeoun) Finite element simulations of martensitic phase transitions and microstructures based on a strain softening model. (English summary) **2005h:74060**
Ireman, Peter J. Algorithms for gradient damage models based on a semi-smooth Newton method. (English summary)
Jia, Gao (*with* Song, Ying-Qing; Li, Qiong) Calculation of eigenvalues for a class of crosswise vibration equation of the beam. (English summary) **2005k:74076**
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Leung, Andrew Y. T. (*with* Dai, Hui; Fok, S. L.; Su, R. K. L.) The fractal finite element method for unbounded problems. (English summary)
Levitas, V. I. *see* **Idesman, A. V. et al., 2005h:74060**
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— *see also* **Wang, Lie-heng, 2005f:74075**
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Reali, A. *see* **Auricchio, Ferdinando et al., 2005i:74072** *and* **2005m:74091**
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Shorr, B. F. ★ The wave finite element method. **2005a:74089**
Soh, Ai-Kah (*with* Chen, Wan Ji) Finite element formulations of strain gradient theory for microstructures and the $C^{0\text{-}1}$ patch test. (English summary)
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Synka, Josef (*with* Kainz, Alexander; Maringer, Robert; Obereder, Andreas) Numerical analysis of a new Eulerian-Lagrangian finite element method applied to steady-state hot rolling processes. (English summary)
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Wang, Jun Ping[1] (*with* Ye, Xiu) A superconvergent finite element scheme for the Reissner-Mindlin plate by projection methods. (English summary) **2005b:74121**
Wang, Lie-heng (*with* Qi, He) A locking-free scheme of nonconforming rectangular finite element for the planar elasticity. (English summary) **2005f:74075**
— *see also* **Qi, He et al., 2005k:74077**
Way, Tom R. *see* **Foster, Winfred A., Jr. et al.**
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— An accurate hybrid macro-element with linear displacements. (English summary)
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Yang, Bin[5] (*with* Laursen, Tod A.; Meng, Xiaonong) Two dimensional mortar contact methods for large deformation frictional sliding. (English summary)
Yang, Hai Tian (*with* Han, Zhi) Solving non-linear viscoelastic problems via a self-adaptive precise algorithm in time domain. (English summary)
— (*with* Liu, Ling[2]; Han, Zhi) The use of cyclic symmetry in two-dimensional elastic analysis by the element-free Galerkin method. (English summary)
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Items with secondary classifications in 74S05

Adolfsson, Klas (*with* Enelund, M.; Larsson, Stig) Adaptive discretization of fractional order viscoelasticity using sparse time history. (English summary) **2005d:74008**
Alonso, Ana Esther (*with* Dello Russo, Anahí; Padra, Claudio; Rodríguez, Rodolfo) Accurate pressure post-process of a finite element method for elastoacoustics. (English summary) **2005j:74013**
Anand, Lallit Single-crystal elasto-viscoplasticity: application to texture evolution in polycrystalline metals at large strains. (English summary) **2005g:74023**
— (*with* Su, Cheng) A theory for amorphous viscoplastic materials undergoing finite deformations, with application to metallic glasses. (English summary) **2005m:74018**
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Areias, P. M. A. (*with* César de Sá, J. M. A.; Conceição António, C. A.) Algorithms for the analysis of 3D finite strain contact problems. (English summary) **2005g:74088**
Askes, Harm (*with* Kuhl, Ellen; Steinmann, Paul) An ALE formulation based on spatial and material settings of continuum mechanics. II. Classification and applications. (English summary) **2005g:74011**
— *see also* **Kuhl, Ellen et al., 2005g:74010**
Augarde, Charles E. Generation of shape functions for rectangular plate elements. (English summary)
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Bajkowski, J. (*with* Fernández García, José Ramón; Kuttler, Kenneth L.; Shillor, Meir) A thermoviscoelastic beam model for brakes. (English summary) **2005a:74072**
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Bartels, Sören (*with* Carstensen, Carsten; Dolzmann, Georg) Inhomogeneous Dirichlet conditions in a priori and a posteriori finite element error analysis. (English summary) **2005i:65166**
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— (*with* Derveaux, Grégoire; Joly, Patrick) An efficient numerical method for the resolution of the Kirchhoff-Love dynamic plate equation. (English summary) **2005m:65230**
Beirão da Veiga, L. Finite element methods for a modified Reissner-Mindlin free plate model. (English summary) **2005k:65237**
Belahcen, A. Magnetoelastic coupling and Rayleigh damping. (English summary)
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Bellur-Ramaswamy, Ravi S. (*with* Haber, Robert Bruce; Sobh, Nahil A.; Tortorelli, Daniel A.) Modelling and process optimization for functionally graded materials. (English summary)
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— (*with* Starke, Gerhard) Least-squares methods for linear elasticity. (English summary) **2005i:65179**
— (*with* Korsawe, Johannes; Starke, Gerhard) An adaptive least squares mixed finite element method for the stress-displacement formulation of linear elasticity. (English summary) **2005i:65181**
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Derveaux, Grégoire *see* **Bécache, Eliane et al., 2005i:74036** *and* **2005m:65230**
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Dimitrov, Atanas On singularities in the solution of three-dimensional Stokes flow and incompressible elasticity problems with corners. (English summary) **2005a:76098**
Dolzmann, Georg *see* **Bartels, Sören et al., 2005i:65166**
Dondl, Patrick W. (*with* Zimmer, Johannes) Modeling and simulation of martensitic phase transitions with a triple point. (English summary) **2005d:74030**
Dostál, Zdeněk *see* **Haslinger, Jaroslav et al., 2005f:74061**
Droske, M. (*with* Rumpf, Martin) A level set formulation for Willmore flow. (English summary) **2005f:35145**
Du, Qiang (*with* Gunzburger, Max D.; Hou, LiSheng; Lee, Jeehyun) Semidiscrete finite element approximations of a linear fluid-structure interaction problem. (English summary) **2005e:65143**
Elishakoff, Isaac (*with* Ren, Yongjian) ★ Finite element methods for structures with large stochastic variations. **2005d:65001**
Enelund, M. *see* **Adolfsson, Klas et al., 2005d:74008**
Ern, Alexandre (*with* Guermond, Jean-Luc) ★ Theory and practice of finite elements. **2005d:65002**
Fabiano, Richard H. Coercivity for finite element approximation of a thermoelastic beam. (*see* **2005m:00008**)
Feijóo, Raúl A. *see* **Saliba, Roberto et al., 2005m:74089**
Feng, Xiaobing (*with* Xie, Zheng Hui) A priori error estimates for a coupled finite element method and mixed finite element method for a fluid-solid interaction problem. (English summary) **2005i:74021**
Feng, Yong-Ping (*with* Cui, Jun Zhi) Multi-scale analysis and FE computation for the structure of composite materials with small periodic configuration under condition of coupled thermoelasticity. (English summary) **2005g:74037**
Feng, Yusheng *see* **Oden, J. Tinsley et al., 2005i:65169**
Fernández García, José Ramón (*with* Han, Weimin; Sofonea, Mircea) Numerical simulations in the study of frictionless viscoelastic contact problems. (English summary)
— (*with* Sofonea, Mircea) Variational and numerical analysis of the Signorini's contact problem in viscoplasticity with damage. **2005e:74040**
— *see also* **Bajkowski, J. et al., 2005a:74072**; **Andrews, Kevin T. et al., 2005g:74087** *and* **Campo Andión, M., 2005k:74062**
Fernandez Merodo, José Antonio (*with* Pastor, Manuel) Finite element modelling of landslides. (*see* **2005b:74003**)
Fisackerly, M. *see* **Andrews, Kevin T. et al., 2005g:74087**
Fried, Isaac (*with* Coleman, Michael) Improvable bounds on the largest eigenvalue of a completely positive finite element flexibility matrix. **2005m:15047**
Gao, Huajian *see* **Nguyen, T. D. et al., 2005f:74072**
Gao, Liping (*with* Liang, Dong; Zhang, Bo[1]) Error estimates for mixed finite element approximations of the viscoelasticity wave equation. (English summary) **2005i:65141**
Gatica, Gabriel N. *see* **Barrientos, Mauricio A. et al., 2005m:74040**
Giacomini, Alessandro (*with* Ponsiglione, Marcello) A discontinuous finite element approximation of quasi-static growth of brittle fractures. (English summary) **2005a:65130**
Gopalakrishnan, S. *see* **Chakraborty, Abir et al., (2005g:65009)** *and* **Roy Mahapatra, D., (2005g:65009)**
Govindjee, Sanjay *see* **Nguyen, T. D. et al., 2005f:74072**
Grote, Marcus J. (*with* Kirsch, Christoph) Dirichlet-to-Neumann boundary conditions for multiple scattering problems. (English summary) **2005h:65184**
Guenneau, Sébastien (*with* Movchan, Alexander; Poulton, C. G.; Nicolet, André) Coupling between electromagnetic and mechanical vibrations of thin-walled structures. (English summary) **2005c:74032**
Guermond, Jean-Luc *see* **Ern, Alexandre, 2005d:65002**
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Han, Weimin *see* **Li, Shaofan et al., 2005a:65133**; **Liu, Wing Kam et al., 2005a:65134**; **Bostan, Viorel et al., 2005i:65167** *and* **Fernández García, José Ramón et al.**
Hansbo, Peter (*with* Hermansson, Joakim; Svedberg, Thomas) Nitsche's method combined with space-time finite elements for ALE fluid-structure interaction problems. (English summary) **2005c:74023**
Hashemi, Seyed M. (*with* Roach, A.) Application of a mesh reduction dynamic finite element method in coupled vibration analysis of structural elements. (English summary) (*see* **2005d:65006**)
Haslinger, Jaroslav (*with* Kučera, Radek; Dostál, Zdeněk) An algorithm for the numerical realization of 3D contact problems with Coulomb friction. (English summary) **2005f:74061**
— (*with* Sassi, Taoufik) Mixed finite element approximation of 3D contact problems with given friction: error analysis and numerical realization. (English summary) **2005g:65169**
Hassani, Riad (*with* Hild, Patrick; Ionescu, Ioan R.) Sufficient conditions of non-uniqueness for the Coulomb friction problem. (English summary) **2005a:74070**
Hermansson, Joakim *see* **Hansbo, Peter et al., 2005c:74023**
Hernández, Erwin Approximation of the vibration modes of a plate coupled with a fluid by low-order isoparametric finite elements. (English summary) **2005h:65210**
— (*with* Rodríguez, Rodolfo) Finite element approximation of spectral acoustic problems on curved domains. (English summary) **2005c:76063**
Hild, Patrick (*with* Sakki, Nour-Dine) On solution multiplicity in friction problems with normal compliance. (English summary) **2005f:74062**
— *see also* **Hassani, Riad et al., 2005a:74070**
Hlaváček, Ivan Unilateral contact with Coulomb friction and uncertain input data. (English summary) **2005b:74088**
— *see also* **Nedoma, Jiřiet al., (2005g:65008)**
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Hua, Hongxing *see* **Shi, Yinming et al.**
Huang, Hao[2] *see* **Costanzo, F., 2005j:74024**
Huang, Ruo-yua *see* **Liu, Zhenyu[1] et al.**
Ignat'eva, M. A. (*with* Lapin, A. V.) Iterative solution of a mixed hybrid finite element scheme for the Signorini problem. (English summary) **2005j:65142**
Ionescu, Ioan R. (*with* Wolf, Sylvie) Interaction of faults under slip-dependent friction. Non-linear eigenvalue analysis. (English summary) **2005h:74046**
— *see also* **Hassani, Riad et al., 2005a:74070** *and* **Badea, Lori et al., 2005f:74056**
Jang, Gang-Won (*with* Lee, Sangkeun; Kim, Yoon Young; Sheen, Dongwoo) Topology optimization using non-conforming finite elements: three-dimensional case. (English summary)
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Joly, Patrick *see* **Bécache, Eliane et al., 2005i:74036** *and* **2005m:65230**

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Kamiński, Marcin Homogenization-based finite element analysis of unidirectional composites by classical and multiresolutional techniques. (English summary) **2005k:65148**
Kerdid, Nabil (*with* Le Dret, Hervé; Saïdi, Abdelkader) Approximation numérique d'un problème de membrane non linéaire. (English and French summaries) [Numerical approximation for a nonlinear membrane problem] **2005h:74039**
Khoi, Vu Duc *see* **Nguyen-Dang Hung et al., (2005g:74002)**
Kim, Nam H. (*with* Chang, Youngmin) Eulerian shape design sensitivity analysis and optimization with a fixed grid. (English summary)
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Korsawe, Johannes *see* **Cai, Zhiqiang et al., 2005i:65181**
Korvink, J. G. *see* **Liu, Zhenyu[1] et al.**
Kružík, Martin (*with* Otto, Felix) A phenomenological model for hysteresis in polycrystalline shape memory alloys. (English summary) **2005g:74095**
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Kučera, Radek *see* **Haslinger, Jaroslav et al., 2005f:74061**
Kuhl, Ellen (*with* Askes, Harm; Steinmann, Paul) An ALE formulation based on spatial and material settings of continuum mechanics. I. Generic hyperelastic formulation. (English summary) **2005g:74010**
— *see also* **Askes, Harm et al., 2005g:74011**
Kulshreshtha, Kshitij (*with* Nataraj, Neela; Jung, Michael[1]) A parallel mixed finite element implementation of fourth-order plate bending problems in distributed memory environments. (English summary) **2005m:65271**
Kuttler, Kenneth L. *see* **Bajkowski, J. et al., 2005a:74072**
Laborde, Patrick *see* **Slimane, Leila et al., 2005f:65157**
Labuschagne, A. (*with* van Rensburg, N. F. J.; van der Merwe, Abraham Johannes) Distributed parameter models for a vertical slender structure on a resilient seating. (English summary) **2005m:74042**
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Lapin, A. V. *see* **Ignat'eva, M. A., 2005j:65142**
Larsson, Fredrik (*with* Runesson, Kenneth) Modeling and discretization errors in hyperelasto-(visco-)plasticity with a view to hierarchical modeling. (English summary) **2005g:74022**
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Lee, Jeehyun *see* **Du, Qiang et al., 2005e:65143**
Lee, Sangkeun *see* **Jang, Gang-Won et al.**
Legrain, G. (*with* Moës, N.; Verron, E.) Stress analysis around crack tips in finite strain problems using the eXtended finite element method. (English summary)
Lew, Adrian (*with* Neff, Patrizio; Sulsky, Deborah; Ortiz, Michael) Optimal BV estimates for a discontinuous Galerkin method for linear elasticity. **2005f:74034**
Li, Shaofan (*with* Lu, Hongsheng; Han, Weimin; Liu, Wing Kam; Simkins, Daniel C., Jr.) Reproducing kernel element method. II. Globally conforming I^m/C^n hierarchies. (English summary) **2005a:65133**
— *see also* **Liu, Wing Kam et al., 2005a:65134; Lu, Hongsheng et al., 2005a:65136** *and* **Simkins, Daniel C., Jr. et al., 2005a:65139**
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Liu, I-Shih *see* **Rincon, Mauro Antonio, 2005c:49067**
Liu, Wing Kam (*with* Han, Weimin; Lu, Hongsheng; Li, Shaofan; Cao, Jian[2]) Reproducing kernel element method. I. Theoretical formulation. (English summary) **2005a:65134**
— *see also* **Li, Shaofan et al., 2005a:65133; Lu, Hongsheng et al., 2005a:65136** *and* **Simkins, Daniel C., Jr. et al., 2005a:65139**
Liu, Zhenyu[1] (*with* Korvink, J. G.; Huang, Ruo-yua) Structure topology optimization: fully coupled level set method via FEMLAB. (English summary)
Lonsing, Marco (*with* Verfürth, Rüdiger) A posteriori error estimators for mixed finite element methods in linear elasticity. (English summary) **2005j:65144**
— (*with* Verfürth, Rüdiger) On the stability of BDMS and PEERS elements. (English summary) **2005j:65145**
Loret, B. *see* **Benvenuti, E. et al., 2005a:74009**
Lu, Hexiang (*with* Hou, Jinhua; Williams, F. W.) Calculation of critical buckling loads for finite length externally constrained thin circular cylinders. (English summary) **2005k:74036**
Lu, Hongsheng (*with* Li, Shaofan; Simkins, Daniel C., Jr.; Liu, Wing Kam) Reproducing kernel element method. III. Generalized enrichment and applications. (English summary) **2005a:65136**
— *see also* **Li, Shaofan et al., 2005a:65133; Liu, Wing Kam et al., 2005a:65134** *and* **Simkins, Daniel C., Jr. et al., 2005a:65139**
Mach, Jan Finite element analysis of free material optimization problem. (English summary) **2005d:74033**
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Marchenko, O. A. *see* **Skopetskiĭ, V. V., 2005e:74018**
Margonari, Massimiliano (*with* Bonnet, Marc) Fast multipole method applied to elastostatic BEM-FEM coupling. (English summary) **2005m:65293**
Márquez Gentil, Antonio (*with* Meddahi, Salim; Selgas, Virginia) A new BEM-FEM coupling strategy for two-dimensional fluid-solid interaction problems. (English summary) **2005b:74041**
Martins, J. A. C. (*with* Pinto da Costa, A.) Finite dimensional frictional contact quasi-static rate and evolution problems revisited. (English summary) **2005h:74050**
McKenna, Patrick J. *see* **Bass, Richard F. et al., 2005f:35074**
Meddahi, Salim *see* **Márquez Gentil, Antonio et al., 2005b:74041**
Menzel, A. (*with* Denzer, R.; Steinmann, Paul) On the comparison of two approaches to compute material forces for inelastic materials. Application to single-slip crystal-plasticity. (English summary) **2005g:74021**
Merlini, T. (*with* Morandini, Marco) The helicoidal modeling in computational finite elasticity. I. Variational formulation. (English summary) **2005d:74004**
— (*with* Morandini, Marco) The helicoidal modeling in computational finite elasticity. II. Multiplicative interpolation. (English summary) **2005d:74005**
— *see also* **Errata: "The helicoidal modeling in computational finite elasticity. II. Multiplicative interpolation"**
van der Merwe, Abraham Johannes *see* **Labuschagne, A. et al., 2005m:74042**
Miehe, Christian (*with* Apel, Nikolas) Anisotropic elastic-plastic analysis of shells at large strains. A comparison of multiplicative and additive approaches to enhanced finite element design and constitutive modelling. (English summary) **2005f:74053**
— (*with* Lambrecht, Matthias; Gürses, E.) Analysis of material instabilities in inelastic solids by incremental energy minimization and relaxation methods: evolving deformation microstructures in finite plasticity. (English summary) **2005f:74020**
Moës, N. *see* **Legrain, G. et al.**
Morandini, Marco *see* **Merlini, T., 2005d:74004; 2005d:74005** *and* **Errata: "The helicoidal modeling in computational finite elasticity. II. Multiplicative interpolation"**
Morin, Pedro *see* **Bänsch, Eberhard et al., 2005g:65139**
Morland, L. W. *see* **Cliffe, K. A., 2005g:86025**
Mosler, J. Numerical analyses of discontinuous material bifurcation: strong and weak discontinuities. (English summary) **2005h:74015**
Moullet, Jean-Christophe *see* **Chambon, René, 2005a:74022**
Movchan, Alexander *see* **Guenneau, Sébastien et al., 2005c:74032**
Nackenhorst, U. The ALE-formulation of bodies in rolling contact theoretical foundations and finite element approach. (English summary) **2005e:74044**
Naga, Ahmed (*with* Zhang, Zhi Min[2]) A posteriori error estimates based on the polynomial preserving recovery. (English summary) **2005k:65231**
Nataraj, Neela *see* **Kulshreshtha, Kshitij et al., 2005m:65271**
Nedoma, Jiří (*with* Hlaváček, Ivan; Daněk, Josef; Vavřík, P.; Stehlík, J.; Denk, Frantisek) Some recent results on a domain decomposition method in biomechanics of human joints. (English summary) (*see* **2005g:65008**)
Neff, Patrizio *see* **Lew, Adrian et al., 2005f:74034**
Nguyen, T. D. (*with* Govindjee, Sanjay; Klein, P. A.; Gao, Huajian) A material force method for inelastic fracture mechanics. (English summary) **2005f:74072**
Nguyen-Dang Hung (*with* Yan, Ai-Min; Khoi, Vu Duc) Duality in kinematic approaches of limit and shakedown analysis of structures. (English summary) (*see* **2005g:74002**)
Nicolet, André *see* **Guenneau, Sébastien et al., 2005c:74032**
Nkemzi, Boniface Error estimates for the Fourier-finite-element approximation of the Lamé system in nonsmooth axisymmetric domains. (English summary) **2005m:65276**
Nobile, Fabio *see* **Oden, J. Tinsley et al., 2005i:65169**
Noble, D. R. (*with* Schunk, P. R.; Wilkes, E. D.; Rao, Rekha R.; Baer, T. A.) Finite element simulations of fluid-structure interactions via overset meshes and sharp embedded interfacial conditions. (English summary) (*see* **2005b:65003**)
Nochetto, Ricardo H. *see* **Bänsch, Eberhard et al., 2005g:65139**
Oden, J. Tinsley (*with* Babuška, Ivo; Nobile, Fabio; Feng, Yusheng; Tempone, Raúl) Theory and methodology for estimation and control of errors due to modeling, approximation, and uncertainty. (English summary) **2005i:65169**
Orlando, A. (*with* Perić, D.) Analysis of transfer procedures in elastoplasticity based on the error in the constitutive equations: theory and numerical illustration. (English summary) **2005b:74025**
Ortiz, Michael *see* **Thoutireddy, P., 2005b:74023** *and* **Lew, Adrian et al., 2005f:74034**
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Padra, Claudio *see* **Alonso, Ana Esther et al., 2005j:74013** *and* **Saliba, Roberto et al., 2005m:74089**
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Pavlov, S. P. (*with* Krys'ko, V. A.) A mixed variational formulation of the problem of a plate freely supported on a curvilinear contour. (Russian) **2005d:74018**
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Ponsiglione, Marcello *see* **Giacomini, Alessandro, 2005a:65130**
Pontaza, J. P. Least-squares variational principles and the finite element method: theory, formulations, and models for solid and fluid mechanics. (English summary) **2005k:65259**
Ponthot, J.-P. *see* **Boman, R.**
Pop, Nicolae On the convergence of the solution of the quasi-static contact problems with friction using the Uzawa type algorithm. (English summary) **2005h:74022**
— (*with* Zelina, Ioana) A quadratic programming method for saddle point formulations in contact problems with friction. (English summary)
Poulton, C. G. *see* **Guenneau, Sébastien et al., 2005c:74032**
Puso, Michael A. (*with* Laursen, Tod A.) A mortar segment-to-segment frictional contact method for large deformations. (English summary)
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van Rensburg, N. F. J. *see* **Labuschagne, A. et al., 2005m:74042**
Rincon, Mauro Antonio (*with* Liu, I-Shih) On numerical approximation of an optimal control problem in linear elasticity. (English and Spanish summaries) **2005c:49067**
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Rodríguez, Rodolfo *see* **Hernández, Erwin, 2005c:76063; Alonso, Ana Esther et al., 2005j:74013** *and* **Barrientos, Mauricio A. et al., 2005m:74040**
Rodríguez-Arós, A. (*with* Sofonea, Mircea; Viaño Rey, Juan M.) Numerical analysis of a class of variational inequalities with integral term. (English summary) **2005g:65093**
— (*with* Viaño Rey, Juan M.; Sofonea, Mircea) A class of evolutionary variational inequalities with Volterra-type term. (English summary) **2005b:74092**
Romero, Ignacio The interpolation of rotations and its application to finite element models

of geometrically exact rods. (English summary) **2005c:74050**

Roy Mahapatra, D. (*with* Gopalakrishnan, S.) A nonlinear spectral finite element model for analysis of wave propagation in solid with internal friction and dissipation. (English summary) (*see* **2005g:65009**)

— *see also* **Chakraborty, Abir et al.**, (**2005g:65009**)

Rumpf, Martin *see* **Droske, M., 2005f:35145**

Runesson, Kenneth *see* **Larsson, Fredrik, 2005g:74022**

Saïdi, Abdelkader *see* **Kerdid, Nabil et al., 2005h:74039**

Sakki, Nour-Dine *see* **Hild, Patrick, 2005f:74062**

Saliba, Roberto (*with* Padra, Claudio; Vénere, Marcelo J.; Taroco, Edgardo; Feijóo, Raúl A.) Adaptivity in linear elastic fracture mechanics based on shape sensitivity analysis. (English summary) **2005m:74089**

Sassi, Taoufik *see* **Haslinger, Jaroslav, 2005g:65169**

Schunk, P. R. *see* **Noble, D. R. et al.**, (**2005b:65003**)

Selgas, Virginia *see* **Márquez Gentil, Antonio et al., 2005b:74041**

Sergienko, Ivan V. (*with* Deĭneka, V. S.) On the numerical solution of a problem in the dynamic theory of elasticity with a concentrated mass and a weakly rigid inclusion. (Russian. English summary) **2005g:74056**

— (*with* Deĭneka, V. S.) Numerical modeling of the vertical consolidation of water-saturated grounds. (Russian. English summary) **2005j:76087**

— (*with* Deĭneka, V. S.) On a numerical solution of a problem in the dynamic theory of elasticity for bodies with concentrated masses. (Russian. English, Russian and Ukrainian summaries) **2005m:74038**

Sheen, Dongwoo *see* **Jang, Gang-Won et al.**

Sheng, X. (*with* Jones, C. J. C.; Thompson, D. J.) Modelling ground vibration from railways using wavenumber finite- and boundary-element methods. (English summary)

Shi, Yinming (*with* Hua, Hongxing; Sol, Hugo) The finite element analysis and experimental study of beams with active constrained layer damping treatments. (English summary)

Shillor, Meir *see* **Bajkowski, J. et al., 2005a:74072** *and* **Andrews, Kevin T. et al., 2005g:74087**

Simkins, Daniel C., Jr. (*with* Li, Shaofan; Lu, Hongsheng; Liu, Wing Kam) Reproducing kernel element method. IV. Globally compatible C^n $(n \geq 1)$ triangular hierarchy. (English summary) **2005a:65139**

— *see also* **Li, Shaofan et al., 2005a:65133** *and* **Lu, Hongsheng et al., 2005a:65136**

Skopetskiĭ, V. V. (*with* Marchenko, O. A.) Investigation of systems of dynamic consolidation of anisotropic media. (Russian. English and Ukrainian summaries) **2005e:74018**

Sladek, J. *see* **Sladek, Valdimir et al.**, (**2005d:65006**)

Sladek, Valdimir (*with* Sladek, J.; Zhang, Chuanzeng) Local integral equations and finite elements. (English summary) (*see* **2005d:65006**)

Slimane, Leila (*with* Renard, Yves) The treatment of the locking phenomenon for a general class of variational inequalities. (English summary) **2005e:65080**

— (*with* Bendali, Abderrahmane; Laborde, Patrick) Mixed formulations for a class of variational inequalities. (English summary) **2005f:65157**

— *see also* **Ben Belgacem, Faker et al.**

Soares, D., Jr. (*with* Mansur, W. J.) An efficient time-domain BEM/FEM coupling for acoustic-elastodynamic interaction problems. (English summary)

Sobh, Nahil A. *see* **Bellur-Ramaswamy, Ravi S. et al.**

Sofonea, Mircea *see* **Rodríguez-Arós, A. et al., 2005b:74092**; **2005g:65093** *and* **Fernández García, José Ramón et al., 2005e:74040**

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Starke, Gerhard *see* **Klawonn, Axel, 2005a:74037**; **Cai, Zhiqiang et al., 2005e:65180**; **2005i:65179** *and* **2005i:65181**

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Stoyan, G. (*with* Strauber, G.; Baran, Ágnes) Generalizations to discrete and analytical Crouzeix-Velte decompositions. (English summary) **2005i:65084**

Strauber, G. *see* **Stoyan, G. et al., 2005i:65084**

Strouboulis, Theofanis (*with* Zhang, Lin[4]; Babuška, Ivo) p-version of the generalized FEM using mesh-based handbooks with applications to multiscale problems. (English summary) **2005h:65221**

Su, Cheng *see* **Anand, Lallit, 2005m:74018**

Sukumar, N. (*with* Srolovitz, D. J.) Finite element-based model for crack propagation in polycrystalline materials. (English summary)

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Suri, Manil Stable hp mixed finite elements based on the Hellinger-Reissner principle. (English summary) **2005m:65282**

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Tempone, Raúl *see* **Oden, J. Tinsley et al., 2005i:65169**

Thompson, D. J. *see* **Sheng, X. et al.**

Thoutireddy, P. (*with* Ortiz, Michael) A variational r-adaption and shape-optimization method for finite-deformation elasticity. (English summary) **2005b:74023**

Torrejón, Marcela E. *see* **Barrientos, Mauricio A. et al., 2005m:74040**

Tortorelli, Daniel A. *see* **Bellur-Ramaswamy, Ravi S. et al.**

Toselli, Andrea (*with* Widlund, Olof B.) ★ Domain decomposition methods—algorithms and theory. **2005g:65006**

Trabucho, Luis *see* **Machado, G., 2005g:74099**

Tralli, A. *see* **Benvenuti, E. et al., 2005a:74009**

Turner, Ian W. *see* **Jayantha, Pasdunkorale A., 2005j:74056**

Valdman, Jan *see* **Brokate, Martin et al., 2005k:74015**

Vanerian, L. *see* **Andrews, Kevin T. et al., 2005g:74087**

VanHouten, T. *see* **Andrews, Kevin T. et al., 2005g:74087**

Vavřík, P. *see* **Nedoma, Jiřiet al.**, (**2005g:65008**)

Vénere, Marcelo J. *see* **Saliba, Roberto et al., 2005m:74089**

Verfürth, Rüdiger *see* **Lonsing, Marco, 2005j:65144** *and* **2005j:65145**

Verron, E. *see* **Legrain, G. et al.**

Viaño Rey, Juan M. *see* **Rodríguez-Arós, A. et al., 2005b:74092** *and* **2005g:65093**

White, J. H. (*with* Bauer, William R.) Finite-element analysis of the displacement of closed DNA loops under torsional stress. (English summary) **2005b:92029**

Widlund, Olof B. *see* **Toselli, Andrea, 2005g:65006**

Wilkes, E. D. *see* **Noble, D. R. et al.**, (**2005b:65003**)

Williams, F. W. *see* **Lu, Hexiang et al., 2005k:74036**

Wolf, Sylvie *see* **Badea, Lori et al., 2005f:74056** *and* **Ionescu, Ioan R., 2005h:74046**

Wu, Shen Rong A priori error estimation of a four-node Reissner-Mindlin plate element for elasto-dynamics. (English summary) **2005j:74025**

Xie, Xiao Ping[3] (*with* Zhou, Tian Xiao) Coarse-mesh-accuracy improvement of bilinear Q_4-plane element by the combined hybrid finite element method. (Chinese. English and Chinese summaries) **2005e:65188**

Xie, Zheng Hui *see* **Feng, Xiaobing, 2005i:74021**

Yan, Ai-Min *see* **Nguyen-Dang Hung et al.**, (**2005g:74002**)

Yoon, Gil Ho (*with* Kim, Yoon Young) Triangular checkerboard control using a wavelet-based method in topology optimization. (English summary) **2005j:74051**

Zelina, Ioana *see* **Pop, Nicolae**

Zhang, Bo[1] *see* **Gao, Liping et al., 2005i:65141**

Zhang, Chuanzeng *see* **Sladek, Valdimir et al.**, (**2005d:65006**)

Zhang, Hongwu *see* **Zhong, Wan Xie**, (**2005g:74002**)

Zhang, Lin[4] *see* **Strouboulis, Theofanis et al., 2005h:65221**

Zhang, Zhi Min[2] *see* **Naga, Ahmed, 2005k:65231**

Zhong, Wan Xie (*with* Zhang, Hongwu) Mixed energy method for solution of quadratic programming problems. (English summary) (*see* **2005g:74002**)

Zhou, Tian Xiao *see* **Xie, Xiao Ping[3], 2005e:65188**

Zimmer, Johannes *see* **Dondl, Patrick W., 2005d:74030**

Items listed otherwise than by author

Errata:

"The helicoidal modeling in computational finite elasticity. II. Multiplicative interpolation" Erratum: "The helicoidal modeling in computational finite elasticity. II. Multiplicative interpolation" [Internat. J. Solids Structures **41** (2004), no. 18-19, 5383–5409; MR2085918 (2005d:74005)] by T. Merlini and M. Morandini.

74S10 Finite volume methods

Jayantha, Pasdunkorale A. (*with* Turner, Ian W.) A second order control-volume finite-element least-squares strategy for simulating diffusion in strongly anisotropic media. (English summary) **2005j:74056**

Turner, Ian W. *see* **Jayantha, Pasdunkorale A., 2005j:74056**

Items with secondary classifications in 74S10

Andreyanov, Boris P. (*with* Boyer, Franck; Hubert, Florence) Finite volume schemes for the p-Laplacian on Cartesian meshes. (English summary) **2005j:65123**

Atluri, Satya N. (*with* Han, Z. D.; Rajendran, A. M.) A new implementation of the meshless finite volume method, through the MLPG "mixed" approach. (English summary)

Barboteu, Mikaël *see* **Hoarau-Mantel, Thierry-Vincent**

Berezovskii, Arkadii A. (*with* Maugin, Gérard A.) Stress-induced phase-transition front propagation in thermoelastic solids. (English summary) **2005i:74061**

Bergam, A. (*with* Mghazli, Zoubida; Verfürth, Rüdiger) Estimations a posteriori d'un schéma de volumes finis pour un problème non linéaire. (English and French summaries) [A posteriori estimates for a finite-volume scheme for a nonlinear problem] **2005d:65189**

Boyer, Franck *see* **Andreyanov, Boris P. et al., 2005j:65123**

Erbay, Husnu A. (*with* Tüzel, V. H.) Dynamic extension of a compressible nonlinearly elastic membrane tube. (English summary) **2005h:74012**

Han, Z. D. *see* **Atluri, Satya N. et al.**

Hoarau-Mantel, Thierry-Vincent (*with* Barboteu, Mikaël) Un schéma de prédiction-correction pour un problème hypervisco-élastique en grandes déformations avec contact et frottement. (French summary) [A prediction-correction scheme for a large deformation hyperviscoelastic contact problem with friction]

Hubert, Florence *see* **Andreyanov, Boris P. et al., 2005j:65123**

Katsaounis, Theodoros (*with* Simeoni, Chiara) First and second order error estimates for the upwind source at interface method. (English summary) **2005h:65136**

Maugin, Gérard A. *see* **Berezovskii, Arkadii A., 2005i:74061**

Mghazli, Zoubida *see* **Bergam, A. et al., 2005d:65189**

Rajendran, A. M. *see* **Atluri, Satya N. et al.**

Simeoni, Chiara *see* **Katsaounis, Theodoros, 2005h:65136**

Tüzel, V. H. *see* **Erbay, Husnu A., 2005h:74012**

Verfürth, Rüdiger *see* **Bergam, A. et al., 2005d:65189**

74S15 Boundary element methods

Ariza, M. P. *see* **Solís, Mario et al.**, (**2005d:65006**)

Bayliss, M. T. (*with* El-Zafrany, A.) Numerical modelling of elastomers using the boundary element method. (English summary)

Brož, P. Progress of BE fatigue fracture solutions. (English summary) (*see* 2005d:65006)

Chaves, R. A. P. *see* **Dumont, Ney A. et al.**, (**2005d:65006**)

Domínguez, José *see* **Solís, Mario et al.**, (**2005d:65006**)

Dumont, Ney A. (*with* Oliveira, M. F. F.; Chaves, R. A. P.) Conventional, hybrid and simplified boundary element methods. (English summary) (*see* **2005d:65006**)

El-Zafrany, A. *see* **Vlachogiannis, I. V.**, (**2005d:65006**); **Franco-Nava, J. M.**, (**2005d:65006**) *and* **Bayliss, M. T.**

Franco-Nava, J. M. (*with* El-Zafrany, A.) Hyper-singular boundary element method for elastic fracture mechanics analysis with large deformation. (English summary) (*see* **2005d:65006**)

Freddi, F. (*with* Salvadori, Alberto; Savoia, Marco) Boundary element analysis of FRP-concrete delamination. (English summary) (*see* **2005d:65006**)

Kugblenu, M. *see* **Procházka, Petr**, (**2005d:65006**)

Lee, Chi King (*with* Lie, S. T.; Shuai, Y. Y.) On coupling of reproducing kernel particle method and boundary element method. (English summary)

Lee, Kwok-Hong *see* **Zhou, Wei et al.**
Leite, L. G. S. (*with* Venturini, Wilson Sergio) Boundary element formulation for 2D solids with stiff and soft inclusions. (English summary) (*see* **2005d:65006**)
Lie, S. T. *see* **Lee, Chi King et al.**
Lim, Kian-Meng *see* **Zhou, Wei et al.**
Oliveira, M. F. F. *see* **Dumont, Ney A. et al.**, (**2005d:65006**)
Palermo, L., Jr. Plate analysis under dynamic loads considering the shear deformation effect. (English summary) (*see* **2005d:65006**)
Polyzos, D. *see* **Sellountos, E. J., 2005k:74078**
Procházka, Petr (*with* Kugblenu, M.) 3D BEM formulation of stability of tunnel face. (English summary) (*see* **2005d:65006**)
— Disconnections in fiber reinforced concretes. (English summary) (*see* **2005d:65006**)
Salvadori, Alberto *see* **Freddi, F. et al.**, (**2005d:65006**)
Savoia, Marco *see* **Freddi, F. et al.**, (**2005d:65006**)
Sellountos, E. J. (*with* Polyzos, D.) A meshless local boundary integral equation method for solving transient elastodynamic problems. (English summary) **2005k:74078**
Shuai, Y. Y. *see* **Lee, Chi King et al.**
Solís, Mario (*with* Ariza, M. P.; Domínguez, José) Time harmonic and static crack problems in 3-D transversely isotropic bodies. (English summary) (*see* **2005d:65006**)
Tay, A. A. O. *see* **Zhou, Wei et al.**
Venturini, Wilson Sergio *see* **Leite, L. G. S.**, (**2005d:65006**)
Vlachogiannis, I. V. (*with* El-Zafrany, A.) Boundary element analysis of elastic frictional contact problems with finite strains. (English summary) (*see* **2005d:65006**)
Wang, Haitao (*with* Yao, Zhen Han) A new fast multipole boundary element method for large scale analysis of mechanical properties in 3D particle-reinforced composites. (English summary)
Yao, Zhen Han *see* **Wang, Haitao**
Zhou, Wei (*with* Lim, Kian-Meng; Lee, Kwok-Hong; Tay, A. A. O.) A new variable-order singular boundary element for calculating stress intensity factors in three-dimensional elasticity problems. (English summary)

Items with secondary classifications in 74S15

Aliabadi, M. H. *see* **Pérez-Gavilán, J. J., 2005g:74077**
Bängtsson, Erik (*with* Neytcheva, Maya) Algebraic preconditioning versus direct solvers for dense linear systems as arising in crack propagation problems. (English summary)
Barrientos, Mauricio A. (*with* Gatica, Gabriel N.; Rodríguez, Rodolfo; Torrejón, Marcela E.) Analysis of a coupled BEM/FEM eigensolver for the hydroelastic vibrations problem. (English summary) **2005m:74040**
Berezovskii, Arkadii A. (*with* Engelbrecht, Jüri; Maugin, Gérard A.) Numerical simulation of thermoelastic wave and phase-transition front propagation. (English summary) (*see* **2005b:00020**)
Bettess, Peter *see* **Perrey-Debain, Emmanuel et al., 2005c:65111**
Bonnet, Marc (*with* Guzina, Bojan B.; Nintcheu Fata, Sylvain) Underground cavity detection based on elastodynamic boundary element and topological derivative approaches. (*see* **2005b:00020**)
— (*with* Guzina, Bojan B.) Sounding of finite solid bodies by way of topological derivative. (English summary) **2005g:74070**
— *see also* **Margonari, Massimiliano, 2005m:65293**
(Brebbia, C. A.) *see* **Boundary elements XXVI, 2005d:65006**
Chan, Youn-Sha (*with* Gray, L. J.; Kaplan, Theodore; Paulino, Glaucio H.) Green's function for a two-dimensional exponentially graded elastic medium. (English summary) **2005b:74045**
Chen, Hai Bo[3] (*with* Jin, Jianfeng; Zhang, Peiqiang; Lu, Pin[2]) Multi-variable non-singular BEM for 2-D potential problems. (English summary)
Davies, Alan J. (*with* Honnor, M. E.; Kane, S. J.) A boundary element method for phase change problems. (English summary) (*see* **2005b:65003**)
Dineva, P. S. (*with* Rangelov, Tsvyatko V.; Manolis, G. D.) Transient wave motion in a cracked, multi-layered geological region by the BEM. (English summary) (*see* **2005d:65006**)
Dumont, Ney A. *see* **Wagner, Marcus Michael et al., 2005g:76082**
Engelbrecht, Jüri *see* **Berezovskii, Arkadii A. et al.**, (**2005b:00020**)
Gatica, Gabriel N. *see* **Barrientos, Mauricio A. et al., 2005m:74040**
Gatmiri, Behrouz (*with* Van Nguyen, Khoa) Time 2D fundamental solution for saturated porous media with incompressible fluid. (English summary) **2005i:74027**
Gaul, Lothar *see* **Wagner, Marcus Michael et al., 2005g:76082**
Gray, L. J. *see* **Chan, Youn-Sha et al., 2005b:74045**
Guao, T. L. *see* **Shiah, Y. C. et al.**
Guzina, Bojan B. *see* **Bonnet, Marc et al., 2005g:74070** *and* (**2005b:00020**)
Honnor, M. E. *see* **Davies, Alan J. et al.**, (**2005b:65003**)
Jin, Jianfeng *see* **Chen, Hai Bo[3] et al.**
Jones, C. J. C. *see* **Sheng, X. et al.**
Kane, S. J. *see* **Davies, Alan J. et al.**, (**2005b:65003**)
Kaplan, Theodore *see* **Chan, Youn-Sha et al., 2005b:74045**
Keum, Bangyong (*with* Liu, Yi Jun[1]) Analysis of 3-D frictional contact mechanics problems by a boundary element method. (English summary)
Liu, Deyi *see* **Yu, Chun Xiao et al.**
Liu, Yi Jun[1] *see* **Keum, Bangyong**
Lu, Pin[2] *see* **Chen, Hai Bo[3] et al.**
Maischak, Matthias (*with* Stephan, Ernst P.) A FEM-BEM coupling method for a nonlinear transmission problem modelling Coulomb friction contact. (English summary) **2005i:74075**
Manolis, G. D. *see* **Dineva, P. S. et al.**, (**2005d:65006**)
Mantič, V. *see* **Vodička, R., 2005c:74007**
Manzoli, Osvaldo L. (*with* Venturini, Wilson Sergio) A BEM formulation for the numerical simulation of strong discontinuities. (Portuguese. English and Portuguese summaries)
Margonari, Massimiliano (*with* Bonnet, Marc) Fast multipole method applied to elastostatic BEM-FEM coupling. (English summary) **2005m:65293**
Márquez Gentil, Antonio (*with* Meddahi, Salim; Selgas, Virginia) A new BEM-FEM coupling strategy for two-dimensional fluid-solid interaction problems. (English summary) **2005b:74041**
Maugin, Gérard A. *see* **Berezovskii, Arkadii A. et al.**, (**2005b:00020**)
Meddahi, Salim *see* **Márquez Gentil, Antonio et al., 2005b:74041**
Miers, L. S. (*with* Telles, J. C. F.) A general tangent operator procedure for implicit elastoplastic BEM analysis. (English summary)
Neytcheva, Maya *see* **Bängtsson, Erik**
Nintcheu Fata, Sylvain *see* **Bonnet, Marc et al.**, (**2005b:00020**)
Ochiai, Yoshihiro (*with* Sladek, Valdimir) Numerical treatment of domain integrals without internal cells in three-dimensional BIEM formulations. (English summary)
Paulino, Glaucio H. *see* **Chan, Youn-Sha et al., 2005b:74045**
Pérez-Gavilán, J. J. (*with* Aliabadi, M. H.) A Galerkin formulation for shear deformable plate bending dynamics. (English summary) **2005g:74077**
Perrey-Debain, Emmanuel (*with* Trevelyan, Jon; Bettess, Peter) Plane wave interpolation in direct collocation boundary element method for radiation and wave scattering: numerical aspects and applications. (English summary) **2005c:65111**
Polyzos, D. *see* **Sellountos, E. J. et al.**
Rangelov, Tsvyatko V. *see* **Dineva, P. S. et al.**, (**2005d:65006**)
Rodríguez, Rodolfo *see* **Barrientos, Mauricio A. et al., 2005m:74040**
Selgas, Virginia *see* **Márquez Gentil, Antonio et al., 2005b:74041**
Sellountos, E. J. (*with* Vavourakis, V.; Polyzos, D.) A new singular/hypersingular MLPG (LBIE) method for 2D elastostatics. (English summary)
Shen, Guangxian *see* **Yu, Chun Xiao et al.**
Sheng, X. (*with* Jones, C. J. C.; Thompson, D. J.) Modelling ground vibration from railways using wavenumber finite- and boundary-element methods. (English summary)
Shiah, Y. C. (*with* Guao, T. L.; Tan, Choon-Lai) Two-dimensional BEM thermoelastic analysis of anisotropic media with concentrated heat sources. (English summary)
Sladek, Valdimir *see* **Ochiai, Yoshihiro**
Steinbach, Olaf A robust boundary element method for nearly incompressible linear elasticity. (English summary) **2005a:65144**
Stephan, Ernst P. *see* **Maischak, Matthias, 2005i:74075**
Tan, Choon-Lai *see* **Shiah, Y. C. et al.**
Telles, J. C. F. *see* **Miers, L. S.**
Thompson, D. J. *see* **Sheng, X. et al.**
Torrejón, Marcela E. *see* **Barrientos, Mauricio A. et al., 2005m:74040**
Trevelyan, Jon *see* **Perrey-Debain, Emmanuel et al., 2005c:65111**
Turteltaub, Matías *see* **Turteltaub, Sergio, 2005b:74047**
Turteltaub, Sergio (*with* Turteltaub, Matías) Integral representations in elastostatics and their application to an alternative boundary element method. (English summary) **2005b:74047**
Van Nguyen, Khoa *see* **Gatmiri, Behrouz, 2005i:74027**
Vavourakis, V. *see* **Sellountos, E. J. et al.**
Venturini, Wilson Sergio *see* **Manzoli, Osvaldo L.**
Vodička, R. (*with* Mantič, V.) On invertibility of elastic single-layer potential operator. (English summary) **2005c:74007**
Wagner, Marcus Michael (*with* Gaul, Lothar; Dumont, Ney A.) The hybrid boundary element method in structural acoustics. (English summary) **2005g:76082**
Wang, Haitao *see* **Wang, Pengbo et al.**
Wang, Pengbo (*with* Yao, Zhen Han; Wang, Haitao) Fast multipole BEM for simulation of 2-D solids containing large numbers of cracks. (English summary)
Waubke, Holger Boundary element method for isotropic media with random shear moduli. (English summary)
Xuedao, S. The new 3-D contact boundary element method of load peculiarity in a roller bearing. (English summary) (*see* **2005d:65006**)
Yao, Zhen Han *see* **Zhao, Libin** *and* **Wang, Pengbo et al.**
Yu, Chun Xiao (*with* Shen, Guangxian; Liu, Deyi) Mathematical programming solution for the frictional contact multipole BEM. (English summary)
Zhang, Peiqiang *see* **Chen, Hai Bo[3] et al.**
Zhao, Libin (*with* Yao, Zhen Han) Fast multipole BEM for 3-D elastostatic problems with applications for thin structures. (English summary)

Items listed otherwise than by author

Bologna ★ Boundary elements XXVI. **2005d:65006**
Boundary elements XXVI ★ Boundary elements XXVI. **2005d:65006**

74S20 Finite difference methods

Krejčí, Pavel (*with* Kuhnen, Klaus) Error estimates for the discrete inversion of hysteresis and creep operators. (English summary) **2005e:74048**
Kuhnen, Klaus *see* **Krejčí, Pavel, 2005e:74048**
Vedantam, Srikanth A nonstandard finite difference scheme for a strain-gradient theory. (English summary)

Items with secondary classifications in 74S20

Chen, Li Qun (*with* Zhao, Wei-Jia) A numerical method for simulating transverse vibrations of an axially moving string. (English summary) **2005g:74058**
Du, Qiang (*with* Liu, Chun; Wang, Xiaoqiang) A phase field approach in the numerical study of the elastic bending energy for vesicle membranes. (English summary) **2005b:74085**
Fernández García, José Ramón (*with* Han, Weimin; Sofonea, Mircea) Numerical simulations in the study of frictionless viscoelastic contact problems. (English summary)
Han, Weimin *see* **Fernández García, José Ramón et al.**
Hutter, Kolumban *see* **Wang, Yongqi et al., 2005b:74032**
Liu, Chun *see* **Du, Qiang et al., 2005b:74085**
Matus, Petr P. *see* **Melnik, Roderick V. N. et al.**, (**2005g:65009**)
Melnik, Roderick V. N. (*with* Wang, Linxiang; Matus, Petr P.; Rybak, I. V.) Computational aspects of conservative difference schemes for shape memory alloys applications. (English summary) (*see* **2005g:65009**)
Noels, L. (*with* Stainier, L.; Ponthot, J.-P.) Combined implicit/explicit time-integration algorithms for the numerical simulation of sheet metal forming. (English summary)
Ponthot, J.-P. *see* **Noels, L. et al.**

Pudasaini, S. P. *see* **Wang, Yongqi et al., 2005b:74032**
Răducanu, Răzvan A note on the Danilovskaia's problem. (English summary) **2005b:74036**
Rybak, I. V. *see* **Melnik, Roderick V. N. et al., (2005g:65009)**
Sofonea, Mircea *see* **Fernández García, José Ramón et al.**
Stainier, L. *see* **Noels, L. et al.**
Wang, Linxiang *see* **Melnik, Roderick V. N. et al., (2005g:65009)**
Wang, Xiaoqiang *see* **Du, Qiang et al., 2005b:74085**
Wang, Yongqi (*with* Hutter, Kolumban; Pudasaini, S. P.) The Savage-Hutter theory: a system of partial differential equations for avalanche flows of snow, debris, and mud. (English summary) **2005b:74032**
Zhao, Wei-Jia *see* **Chen, Li Qun, 2005g:74058**

74S25 Spectral and related methods

Ahmed, S. A. (*with* Buckingham, Robert; Gremaud, Pierre A.; Hauck, C. D.; Kuster, C. M.; Prodanovic, M.; Royal, T. A.; Silantiev, Valentin M.) Volume determination for bulk materials in bunkers. (English summary)
Buckingham, Robert *see* **Ahmed, S. A. et al.**
Gremaud, Pierre A. *see* **Ahmed, S. A. et al.**
Hauck, C. D. *see* **Ahmed, S. A. et al.**
Kuster, C. M. *see* **Ahmed, S. A. et al.**
Prodanovic, M. *see* **Ahmed, S. A. et al.**
Royal, T. A. *see* **Ahmed, S. A. et al.**
Silantiev, Valentin M. *see* **Ahmed, S. A. et al.**

Items with secondary classifications in 74S25

Cheban, V. (*with* Naval, Ion) About one explicit-difference scheme for solving the plane problem for two-component medium. (English summary)
Naval, Ion *see* **Cheban, V.**

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Aluru, N. R. *see* **Jin, Xiaozhong et al., 2005k:74079**
Barbarin, Serge *see* **Raous, Michel et al., 2005b:74125**
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Bithell, Mike *see* **Richards, Keith et al., 2005b:74126**
Bonet, Javier (*with* Kulasegaram, Sivakumar) Alternative total Lagrangian formulations for corrected smooth particle hydrodynamics (CSPH) methods in large strain dynamic problems. **2005g:74105**
Chen, Xuefeng *see* **Li, Bing et al., (2005i:42002)**
Cueto, E. *see* **Laguardia, J. J. et al.**
Doblaré, M. *see* **Laguardia, J. J. et al.**
Dove, Martin *see* **Richards, Keith et al., 2005b:74126**
E, Wei-nan (*with* Li, Xiantao; Vanden-Eijnden, Eric) Some recent progress in multiscale modeling. (English summary) **2005e:74049**
He, Zhengjia *see* **Li, Bing et al., (2005i:42002)**
Hodge, Rebecca *see* **Richards, Keith et al., 2005b:74126**
Jin, Xiaozhong (*with* Li, Gang; Aluru, N. R.) New approximations and collocation schemes in the finite cloud method. (English summary) **2005k:74079**
Kaveh, A. (*with* Rahami, H.) An efficient method for decomposition of regular structures using graph products. (English summary)
Kim, Yongsik *see* **Lee, Sang-Ho[3] et al.**
Krok, Józef An extended approach to error control in experimental and numerical data smoothing and evaluation using the meshless FDM. (*see* **2005f:74002**)
Kulasegaram, Sivakumar *see* **Bonet, Javier, 2005g:74105**
Laguardia, J. J. (*with* Cueto, E.; Doblaré, M.) A natural neighbour Galerkin method with quadtree structure. (English summary)
Lam, Kwok-Yan *see* **Zong, Z. et al., 2005m:74099**
Lee, Sang-Ho[3] (*with* Yoon, Young-Cheol; Kim, Yongsik) New local near-tip functions for the element-free Galerkin method. (English summary)
Li, Bing (*with* Chen, Xuefeng; He, Zhengjia; Zhuo, Jie) Beam bending analysis using wavelet finite element. (English summary) (*see* **2005i:42002**)
Li, Gang *see* **Jin, Xiaozhong et al., 2005k:74079**
Li, Xiantao *see* **E, Wei-nan et al., 2005e:74049**
Liu, Wing Kam *see* **Park, Harold S., 2005b:74124**
Mira, Pablo (*with* Pastor, Manuel) Non linear problems: advanced techniques. (*see* **2005b:74003**)
Park, Harold S. (*with* Liu, Wing Kam) An introduction and tutorial on multiple-scale analysis in solids. (English summary) **2005b:74124**
Pastor, Manuel *see* **Mira, Pablo, (2005b:74003)**
Peirce, A. P. (*with* Siebrits, E.) A dual mesh multigrid preconditioner for the efficient solution of hydraulically driven fracture problems. (English summary)
Rabczuk, T. (*with* Belytschko, Ted) Adaptivity for structured meshfree particle methods in 2D and 3D. (English summary) **2005m:74098**
Rahami, H. *see* **Kaveh, A.**
Raous, Michel (*with* Barbarin, Serge; Vola, Didier) Numerical characterization and computation of dynamic instabilities for frictional contact problems. (English summary) **2005b:74125**
Richards, Keith (*with* Bithell, Mike; Dove, Martin; Hodge, Rebecca) Discrete-element modelling: methods and applications in the environmental sciences. (English summary) **2005b:74126**
Siebrits, E. *see* **Peirce, A. P.**
Soize, Christian Random matrix theory for modeling uncertainties in computational mechanics. (English summary) **2005i:74077**
Sorokin, M. V. Solution of the second boundary value problem by the Monte Carlo method in the case of an anisotropic medium. (Russian. Russian summary)
Vanden-Eijnden, Eric *see* **E, Wei-nan et al., 2005e:74049**
Vola, Didier *see* **Raous, Michel et al., 2005b:74125**
Xiao, Shao Ping (*with* Belytschko, Ted) Material stability analysis of particle methods. (English summary) **2005j:74057**
Yoon, Young-Cheol *see* **Lee, Sang-Ho[3] et al.**
Zhang, Y. Y. *see* **Zong, Z. et al., 2005m:74099**
Zhuo, Jie *see* **Li, Bing et al., (2005i:42002)**
Zong, Z. (*with* Lam, Kwok-Yan; Zhang, Y. Y.) A multidomain differential quadrature approach to plane elastic problems with material discontinuity. (English summary) **2005m:74099**

Items with secondary classifications in 74S30

Alart, Pierre *see* **Renouf, Mathieu, 2005m:74073**
Angelov, Todor A. (*with* Liolios, Asterios A.) On the two-step iterative method of solving frictional contact problems in elasticity. (English summary) **2005m:74068**
Arora, J. S. *see* **Mijar, A. R., 2005e:74042** *and* **2005e:74043**
Auricchio, Ferdinando (*with* Stefanelli, Ulisse) Numerical analysis of a three-dimensional super-elastic constitutive model. (English summary) **2005b:74100**
Bayada, Guy (*with* Sabil, J.; Sassi, Taoufik) A Neumann-Neumann domain decomposition algorithm for the Signorini problem. (English summary) **2005d:74024**
Belytschko, Ted *see* **Guest, J. K. et al., 2005b:74105**
Bendsøe, M. P. *see* **Norato, J. et al., 2005b:74103**
Bletzinger, Kai-Uwe (*with* Wüchner, Roland; Daoud, Fernaß; Camprubí, Natalia) Computational methods for form finding and optimization of shells and membranes. (English summary)
Blom, Frederic *see* **Leyland, Pénélope et al., (2005b:74043)**
Boroomand, B. (*with* Tabatabaei, A. A.; Oñate, Eugenio) Simple modifications for stabilization of the finite point method. (English summary) **2005k:74033**
Breitkopf, Piotr (*with* Rassineux, Alain; Villon, Pierre) An introduction to moving least squares meshfree methods. **2005h:65232**
— *see also* **Meshfree & particle based approaches in computational mechanics, 2005f:74002**
Bruno, Oscar P. *see* **Goldsztein, Guillermo H., 2005b:74096**
Camprubí, Natalia *see* **Bletzinger, Kai-Uwe et al.**
Carstens, Volker *see* **Leyland, Pénélope et al., (2005b:74043)**
Carstensen, Carsten Ten remarks on nonconvex minimisation for phase transition simulations. (English summary) **2005g:74092**
Casadei, Folco (*with* Potapov, Serguei) Permanent fluid-structure interaction with non-conforming interfaces in fast transient dynamics. (English summary)
Chen, Cheng-Hung *see* **Chen, Wen-Hwa**
Chen, Wen[4] *see* **Fish, Jacob, 2005d:82118**
Chen, Wen-Hwa (*with* Chen, Cheng-Hung) On three-dimensional fracture mechanics analysis by an enriched meshless method. (English summary)
Chinesta Soria, Francisco *see* **Yvonnet, J. et al., 2005b:65131**
Collino, Francis *see* **Huttunen, Tomi et al., 2005c:74042**
Danilin, A. N. (*with* Snegovski, D. V.; Volkov-Bogorodsky, D. B.) On implicit algorithms of continuation method with applications to dynamic systems. (English summary) **2005d:65098**
Daoud, Fernaß *see* **Bletzinger, Kai-Uwe et al.**
Englund, Jonas Stable algorithm for the stress field around a multiply branched crack. (English summary)
Engquist, Björn *see* **Tornberg, Anna-Karin, 2005e:65204**
Fanion, Thierry (*with* Fernández, Miguel-Ángel; le Tallec, Patrick) Deriving adequate formulations for fluid-structure interaction problems: from ALE to transpiration **2005c:74022**
Farhat, Charbel (*with* Li, Jing-Rebecca) An iterative domain decomposition method for the solution of a class of indefinite problems in computational structural dynamics. (English summary)
— *see also* **Piperno, Serge, 2005e:74017**
Fernández, Miguel-Ángel *see* **Fanion, Thierry et al., 2005c:74022**
Fish, Jacob (*with* Chen, Wen[4]) Discrete-to-continuum bridging based on multigrid principles. (English summary) **2005d:82118**
Ford, Judith M. (*with* Ford, Neville J.; Wheeler, John) Simulation of grain-boundary diffusion creep: analysis of some new numerical techniques. (English summary) **2005b:74029**
Ford, Neville J. *see* **Ford, Judith M. et al., 2005b:74029**
Fortin, Jérôme (*with* Millet, O.; de Saxcé, Géry) Numerical simulation of granular materials by an improved discrete element method. (English summary) **2005i:76113**
Gaspar, Francisco J. *see* **Wienands, Roman et al., 2005h:65246**
Genovese, K. (*with* Lamberti, Luciano; Pappalettere, C.) Improved global-local simulated annealing formulation for solving non-smooth engineering optimization problems. (English summary)
Gil'manov, A. N. *see* **Il'gamov, M. A., 2005k:76097**
Göktepe, S. *see* **Miehe, Christian et al., 2005e:74003**
Goldsztein, Guillermo H. (*with* Bruno, Oscar P.) A fast algorithm for the simulation of polycrystalline misfits. II. Martensitic transformations in three space dimensions. (English summary) **2005b:74096**
Guest, J. K. (*with* Prévost, J. H.; Belytschko, Ted) Achieving minimum length scale in topology optimization using nodal design variables and projection functions. (English summary) **2005b:74105**
Haber, Robert Bruce *see* **Norato, J. et al., 2005b:74103**
Hasanov, Alemdar Integral convexity argument for plasticity function and monotonicity of iteration process for elasto-plastic problems. (English summary) **2005d:74007**
Henderson, Michael E. (*with* Neukirch, Sébastien) Classification of the spatial equilibria of the clamped elastica: numerical continuation of the solution set. (English summary) **2005a:74055**
Hippmann, Gerhard An algorithm for compliant contact between complexly shaped bodies (English summary)
Hisada, T. *see* **Washio, T. et al.**
Hori, Muneo (*with* Oguni, Kenji; Sakaguchi, Hide) Proposal of FEM implemented with particle discretization for analysis of failure phenomena. (English summary)
Hüeber, S. (*with* Wohlmuth, Barbara I.) A primal-dual active set strategy for non-linear multibody contact problems. (English summary) **2005m:74071**
Huerta, Antonio *see* **Meshfree & particle based approaches in computational mechanics 2005f:74002** *and* **Vidal, Yolanda et al., 2005i:65192**

Huttunen, Tomi (*with* Monk, P. B.; Collino, Francis; Kaipio, Jari P.) The ultra-weak variational formulation for elastic wave problems. (English summary) **2005c:74042**

Il'gamov, M. A. (*with* Gil'manov, A. N.) ★ Неотражающие условия на границах расчетной области. (Russian. Russian summary) [Nonreflecting conditions on the boundaries of the computational domain] **2005k:76097**

Jung, Youngjean (*with* Papadopoulos, Panayiotis; Ritchie, R. O.) Constitutive modelling and numerical simulation of multivariant phase transformation in superelastic shape-memory alloys. (English summary) **2005a:74076**

Kaipio, Jari P. *see* **Huttunen, Tomi et al., 2005c:74042**

Kanapady, Ramdev (*with* Tamma, Kumar K.) A mathematical framework towards a unified set of discontinuous state-phase hierarchical time operators for computational dynamics. (English summary) **2005b:65090**

Karpov, Eduard G. *see* **Park, Harold S. et al., 2005b:82088**

Kaul, Ann M. *see* **Sulsky, Deborah, 2005a:65111**

Kevrekidis, Ioannis G. (*with* Li, Ju[2]; Yip, Sidney) Nonlinear dynamics analysis through molecular dynamics simulations. (English summary) **2005e:82111**

Kim, Yoon Young *see* **Yoon, Gil Ho, 2005j:74051**

Krasucki, Francoise (*with* Münch, Arnaud; Ousset, Yves) Numerical simulation of debonding of adhesively bonded joint. (English summary) **2005i:74068**

Lamberti, Luciano *see* **Genovese, K. et al.**

Latham, J.-P. *see* **Munjiza, A., 2005b:74119**

Lawrence, W. Eric *see* **Vemaganti, Kumar**

Lawson, Stuart *see* **Tseng, Chien Hsun**

Lee, Chi King (*with* Lie, S. T.; Shuai, Y. Y.) On coupling of reproducing kernel particle method and boundary element method. (English summary)

Leyland, Pénélope (*with* Blom, Frederic; Carstens, Volker; Tefy, Tiana) Fully coupled fluid-structure algorithms for aeroelasticity and forced vibration induced flutter: applications to a compressor cascade. (*see* **2005b:74043**)

Li, Jing-Rebecca *see* **Farhat, Charbel**

Li, Ju[2] *see* **Kevrekidis, Ioannis G. et al., 2005e:82111**

Li, Shaofan (*with* Liu, Wing Kam) ★ Meshfree particle methods. **2005i:65001**

Lie, S. T. *see* **Lee, Chi King et al.**

Liolios, Asterios A. *see* **Angelov, Todor A., 2005m:74068**

Lisbona, Francisco J. *see* **Wienands, Roman et al., 2005h:65246**

Liu, Chein-Shan Internal symmetry groups for the Drucker-Prager material model of plasticity and numerical integrating methods. (English summary) **2005c:74013**

Liu, Wing Kam *see* **Park, Harold S. et al., 2005b:82088** *and* **Li, Shaofan, 2005i:65001**

Lorong, P. *see* **Yvonnet, J. et al., 2005b:65131**

Lulei, F. *see* **Miehe, Christian et al., 2005e:74003**

Mair, Michael (*with* Wohlmuth, Barbara I.) A domain decomposition method for domains with holes using a complementary decomposition. (English summary) **2005f:74035**

Mandel, Jan (*with* Popa, Mirela O.) Iterative solvers for coupled fluid-solid scattering. (English summary) **2005m:65303**

Margolin, L. G. (*with* Shashkov, M. Yu.) Remapping, recovery and repair on a staggered grid. (English summary) **2005f:65121**

Merlini, T. (*with* Morandini, Marco) The helicoidal modeling in computational finite elasticity. I. Variational formulation. (English summary) **2005d:74004**

— (*with* Morandini, Marco) The helicoidal modeling in computational finite elasticity. II. Multiplicative interpolation. (English summary) **2005d:74005**

— *see also* **Errata: "The helicoidal modeling in computational finite elasticity. II. Multiplicative interpolation"**

Miehe, Christian (*with* Göktepe, S.; Lulei, F.) A micro-macro approach to rubber-like materials. I. The non-affine micro-sphere model of rubber elasticity. (English summary) **2005e:74003**

Mijar, A. R. (*with* Arora, J. S.) An augmented Lagrangian optimization method for contact analysis problems. I. Formulation and algorithm. (English summary) **2005e:74042**

— (*with* Arora, J. S.) An augmented Lagrangian optimization method for contact analysis problems. II. Numerical evaluation. (English summary) **2005e:74043**

Millet, O. *see* **Fortin, Jérôme et al., 2005i:76113**

Miquel, Juan *see* **Perazzo, Franco et al.**

Monk, P. B. *see* **Huttunen, Tomi et al., 2005c:74042**

Morandini, Marco *see* **Merlini, T., 2005d:74004; 2005d:74005** *and* **Errata: "The helicoidal modeling in computational finite elasticity. II. Multiplicative interpolation"**

Münch, Arnaud *see* **Krasucki, Francoise et al., 2005i:74068**

Munjiza, A. (*with* Latham, J.-P.) Some computational and algorithmic developments in computational mechanics of discontinua. (English summary) **2005b:74119**

Neukirch, Sébastien *see* **Henderson, Michael E., 2005a:74055**

Norato, J. (*with* Haber, Robert Bruce; Tortorelli, Daniel A.; Bendsøe, M. P.) A geometry projection method for shape optimization. (English summary) **2005b:74103**

Nukala, Phani Kumar V. V. (*with* Simunovic, Srdan) An efficient block-circulant preconditioner for simulating fracture using large fuse networks. (English summary) **2005i:65051**

Oguni, Kenji *see* **Hori, Muneo et al.**

Oñate, Eugenio *see* **Boroomand, B. et al., 2005k:74033** *and* **Perazzo, Franco et al.**

Oosterlee, Cornelis W. *see* **Wienands, Roman et al., 2005h:65246**

Ousset, Yves *see* **Krasucki, Francoise et al., 2005i:74068**

Papadopoulos, Panayiotis *see* **Jung, Youngjean et al., 2005a:74076**

Pappalettere, C. *see* **Genovese, K. et al.**

Park, Harold S. (*with* Karpov, Eduard G.; Liu, Wing Kam) A temperature equation for coupled atomistic/continuum simulations. (English summary) **2005b:82088**

Peigney, Michaël Simulating wear under cyclic loading by a minimization approach. (English summary) **2005f:74063**

Perazzo, Franco (*with* Miquel, Juan; Oñate, Eugenio) A finite point method for solid dynamics problems. (Spanish. English and Spanish summaries)

Piperno, Serge (*with* Farhat, Charbel) Design of efficient partitioned procedures for the transient solution of aeroelastic problems. **2005e:74017**

Popa, Mirela O. *see* **Mandel, Jan, 2005m:65303**

Potapov, Serguei *see* **Casadei, Folco**

Prévost, J. H. *see* **Guest, J. K. et al., 2005b:74105**

Rassineux, Alain *see* **Breitkopf, Piotr et al., 2005h:65232**

Renouf, Mathieu (*with* Alart, Pierre) Conjugate gradient type algorithms for frictional multi-contact problems: applications to granular materials. (English summary) **2005m:74073**

Reshetnikov, V. V. *see* **Surkov, Yu. A., 2005g:74072**

Ritchie, R. O. *see* **Jung, Youngjean et al., 2005a:74076**

Rokhlin, S. I. *see* **Wang, Lugen, 2005e:74027**

Rychlewska, Jowita (*with* Szymczyk, Jolanta; Woźniak, Czesław) Simplified models for the vibration analysis of micro-periodic elastic media. (English summary) **2005c:74035**

Ryckelynck, D. *see* **Yvonnet, J. et al., 2005b:65131**

Sabil, J. *see* **Bayada, Guy et al., 2005d:74024**

Sakaguchi, Hide *see* **Hori, Muneo et al.**

Sansour, Carlo A time integration scheme with energy-momentum conservation for a shell formulation with arbitrary geometric and material non-linearities. (English summary)

Sassi, Taoufik *see* **Bayada, Guy et al., 2005d:74024**

de Saxcé, Géry *see* **Fortin, Jérôme et al., 2005i:76113**

Shashkov, M. Yu. *see* **Margolin, L. G., 2005f:65121**

Shuai, Y. Y. *see* **Lee, Chi King et al.**

Simunovic, Srdan *see* **Nukala, Phani Kumar V. V., 2005i:65051**

Snegovski, D. V. *see* **Danilin, A. N. et al., 2005d:65098**

Stefanelli, Ulisse *see* **Auricchio, Ferdinando, 2005b:74100**

Sulsky, Deborah (*with* Kaul, Ann M.) Implicit dynamics in the material-point method. (English summary) **2005a:65111**

Surkov, Yu. A. (*with* Reshetnikov, V. V.) Numerical investigation of the properties of quasilocal plane mode-type waves in the case of a thin low-velocity elastic layer that is in contact with an elastic half-space. (Russian. English and Russian summaries) **2005g:74072**

Szymczyk, Jolanta *see* **Rychlewska, Jowita et al., 2005c:74035**

Tabatabaei, A. A. *see* **Boroomand, B. et al., 2005k:74033**

le Tallec, Patrick *see* **Fanion, Thierry et al., 2005c:74022**

Tamma, Kumar K. *see* **Kanapady, Ramdev, 2005b:65090**

Tefy, Tiana *see* **Leyland, Pénélope et al., (2005b:74043)**

Tezduyar, Tayfun E. *see* **Washio, T. et al.**

Tornberg, Anna-Karin (*with* Engquist, Björn) Numerical approximations of singular source terms in differential equations. (English summary) **2005e:65204**

Tortorelli, Daniel A. *see* **Norato, J. et al., 2005b:74103**

Tseng, Chien Hsun (*with* Lawson, Stuart) Initial and boundary conditions in multidimensional wave digital filter algorithms for plate vibration. (English summary)

Vemaganti, Kumar (*with* Lawrence, W. Eric) Parallel methods for optimality criteria-based topology optimization. (English summary)

Vidal, Yolanda (*with* Huerta, Antonio; Villon, Pierre) Locking in the incompressible limit: pseudo-divergence-free element-free Galerkin. **2005i:65192**

Villon, Pierre *see* **Breitkopf, Piotr et al., 2005h:65232** *and* **Vidal, Yolanda et al., 2005i:65192**

Volkov-Bogorodsky, D. B. *see* **Danilin, A. N. et al., 2005d:65098**

Wang, Lugen (*with* Rokhlin, S. I.) Recursive geometric integrators for wave propagation in a functionally graded multilayered elastic medium. (English summary) **2005e:74027**

Wang, Xiao Ming[1] *see* **Zhang, Zhiqian et al.**

Washio, T. (*with* Hisada, T.; Watanabe, H.; Tezduyar, Tayfun E.) A robust preconditioner for fluid-structure interaction problems. (English summary)

Watanabe, H. *see* **Washio, T. et al.**

Wheeler, John *see* **Ford, Judith M. et al., 2005b:74029**

Wienands, Roman (*with* Gaspar, Francisco J.; Lisbona, Francisco J.; Oosterlee, Cornelis W.) An efficient multigrid solver based on distributive smoothing for poroelasticity equations. (English summary) **2005h:65246**

Wohlmuth, Barbara I. *see* **Mair, Michael, 2005f:74035** *and* **Hüeber, S., 2005m:74071**

Woźniak, Czesław *see* **Rychlewska, Jowita et al., 2005c:74035**

Wüchner, Roland *see* **Bletzinger, Kai-Uwe et al.**

Yip, Sidney *see* **Kevrekidis, Ioannis G. et al., 2005e:82111**

Yoon, Gil Ho (*with* Kim, Yoon Young) Triangular checkerboard control using a wavelet-based method in topology optimization. (English summary) **2005j:74051**

Yvonnet, J. (*with* Ryckelynck, D.; Lorong, P.; Chinesta Soria, Francisco) A new extension of the natural element method for non-convex and discontinuous problems: the constrained natural element method (C-NEM). (English summary) **2005b:65131**

Zhang, Ling *see* **Zhang, Zhiqian et al.**

Zhang, Zhiqian (*with* Zhou, Jinxiong; Zhou, Ning[2]; Wang, Xiao Ming[1]; Zhang, Ling) Shape optimization using reproducing kernel particle method and an enriched genetic algorithm. (English summary)

Zhao, Hong-Kai Analysis of the response matrix for an extended target. (English summary) **2005a:74050**

Zhou, Jinxiong *see* **Zhang, Zhiqian et al.**

Zhou, Ning[2] *see* **Zhang, Zhiqian et al.**

Items listed otherwise than by author

Errata:

"The helicoidal modeling in computational finite elasticity. II. Multiplicative interpolation" Erratum: "The helicoidal modeling in computational finite elasticity. II. Multiplicative interpolation" [Internat. J. Solids Structures **41** (2004), no. 18-19, 5383–5409; MR2085918 (2005d:74005)] by T. Merlini and M. Morandini.

Meshfree & particle based approaches in computational mechanics ★ Meshfree & particle based approaches in computational mechanics. **2005f:74002**

74S99 None of the above, but in this section

Beer, Michael *see* **Möller, Bernd, 2005m:74100**

Möller, Bernd (*with* Beer, Michael) ★ Fuzzy randomness. **2005m:74100**

Items with secondary classifications in 74S99

Abdellaoui, Marouane (*with* El Jaï, Abdelhak) Modélisation par automates cellulaires d'un système thermoélastique. (French summary) [Cellular automaton model for a

thermoelastic system] **2005b:74034**

El Jaï, Abdelhak *see* **Abdellaoui, Marouane, 2005b:74034**

Ganti, S. *see* **Sharma, Pradeep, 2005m:74005**

Sharma, Pradeep (*with* Ganti, S.) Gauge-field-theory solution of the elastic state of a screw dislocation in a dispersive (non-local) crystalline solid. (English summary) **2005m:74005**

76–XX Fluid mechanics {For general continuum mechanics, see 74Axx, or other parts of 74–XX.}

76–01 Instructional exposition (textbooks, tutorial papers, etc.)

(Böhle, M.) *see* **Prandtl, Ludwig, 2005a:76002**
Davidson, P. A. ★ Turbulence. **2005f:76001**
(Deville, Michel O.) *see* **Ryhming, Inge L., 2005g:76001**
(Drotz, A.) *see* **Ryhming, Inge L., 2005g:76001**
Durst, Franz (*with* Melling, Dubravka; Oka, Simeon) Development of fluid mechanics methods in the 20th century and the application to laminar and turbulent flow investigations. (English summary) (*see* **2005g:76002**)
(Etling, D.) *see* **Prandtl, Ludwig, 2005a:76002**
Kilian, Susanne (*with* Turek, Stefan) ★ The virtual album of fluid motion. **2005a:76001**
(Mayes, Katherine) *see* **Prandtl, Ludwig, 2005a:76002**
Melling, Dubravka *see* **Durst, Franz et al., (2005g:76002)**
(Müller, Ulrich[1]) *see* **Prandtl, Ludwig, 2005a:76002**
Ochkov, Valery *see* **Solodov, Alexander**
(Oertel, Herbert) *see* **Prandtl, Ludwig, 2005a:76002**
Oka, Simeon *see* **Durst, Franz et al., (2005g:76002)**
(Oswatitsch, K.) *see* **Ryhming, Inge L., 2005g:76001**
Petrila, Titus (*with* Trif, Damian) ★ Basics of fluid mechanics and introduction to computational fluid dynamics. **2005h:76001**
Prandtl, Ludwig ★ Prandtl's *Essentials of fluid mechanics*. **2005a:76002**
(Riedel, U.) *see* **Prandtl, Ludwig, 2005a:76002**
Ryhming, Inge L. ★ Dynamique des fluides. (French) [Fluid dynamics] **2005g:76001**
Solodov, Alexander (*with* Ochkov, Valery) ★ Differential models.
(Sreenivasan, K. R. S.) *see* **Prandtl, Ludwig, 2005a:76002**
Trif, Damian *see* **Petrila, Titus, 2005h:76001**
Turek, Stefan *see* **Kilian, Susanne, 2005a:76001**
(Warnatz, J.) *see* **Prandtl, Ludwig, 2005a:76002**

76–02 Research exposition (monographs, survey articles)

Drikakis, Dimitris (*with* Rider, William) ★ High-resolution methods for incompressible and low-speed flows. **2005k:76001**
(Harlow, Frank) *see* **Drikakis, Dimitris, 2005k:76001**
Rider, William *see* **Drikakis, Dimitris, 2005k:76001**

Items with secondary classifications in 76–02

Zeytounian, Radyadour Kh. ★ Theory and applications of viscous fluid flows. **2005a:76036**

76–03 Historical (must also be assigned at least one classification number from Section 01)

(Bölkow, Ludwig) *see* **Hirschel, Ernst Heinrich et al., 2005b:76002**
Craik, Alex D. D. G. G. Stokes and his precursors on water wave theory. (English summary) **2005b:76001**
— George Gabriel Stokes on water wave theory. (English summary) **2005i:76001**
Hirschel, Ernst Heinrich (*with* Prem, Horst; Madelung, Gero) ★ Aeronautical research in Germany. **2005b:76002**
(Kröll, Walter) *see* **Hirschel, Ernst Heinrich et al., 2005b:76002**
Madelung, Gero *see* **Hirschel, Ernst Heinrich et al., 2005b:76002**
Prem, Horst *see* **Hirschel, Ernst Heinrich et al., 2005b:76002**
(Stokes, George Gabriel) *see* **Craik, Alex D. D., 2005b:76001** *and* **2005i:76001**

Items with secondary classifications in 76–03

Craik, Alex D. D. The origins of water wave theory. (English summary) **2005a:01012**
Debnath, Lokenath Four major discoveries in applied mathematics during the second half of the twentieth century. (English summary) (*see* **2005m:00007**)
(Ferrari, Carlo) *see* **Tordella, Daniela**
Graber, Frédéric Article ou mémoire? Une réflexion comparative sur l'écriture des textes scientifiques. Navier et l'écoulement des fluides (1822–1827). (English and French summaries) [Article or memoir? A comparative reflection on the writing of scientific texts. Navier and the flow of fluids (1822–1827)]
(Heisenberg, Werner Karl) *see* **Mukhin, R. R., (2005c:01023)**
Hooper, Wallace Seventeenth-century theories of the tides as a gauge of scientific change. (*see* **2005k:01017**)
(Kibel, I. A.) *see* **Zeytounian, Radyadour Kh., 2005k:86016**
(Kolmogorov, Andreĭ Nikolaevich) *see* **Mukhin, R. R., (2005c:01023)**
Mukhin, R. R. Heisenberg's development of some problems of hydrodynamics. (Russian. English and Russian summaries) (*see* **2005c:01023**)
— A. N. Kolmogorov and the statistical theory of turbulence. (Russian. English and Russian summaries) (*see* **2005c:01023**)
(Navier, Claude-Louis-Marie-Henri) *see* **Graber, Frédéric**
Radelet de Grave, Patricia Historiographie de la mécanique de 1975 à 2000: une étude statistique. (English and French summaries) [Histography of mechanics from 1975 to 2000: a statistical study]
Tordella, Daniela The scientific work of Carlo Ferrari. (English summary)
Zeytounian, Radyadour Kh. Weather prediction as a problem in fluid dynamics (on the 100th birthday of I. A. Kibel). (Russian. Russian summary) **2005k:86016**

Items listed otherwise than by author

Anniversary:
Birth of Kibel, I. A. *see* **Zeytounian, Radyadour Kh., 2005k:86016**
Bibliography:
Ferrari, Carlo *see* **Tordella, Daniela**

76–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 76–04

Kilian, Susanne (*with* Turek, Stefan) ★ The virtual album of fluid motion. **2005a:76001**
Ochkov, Valery *see* **Solodov, Alexander**
Schmidt, Dieter S. The stability of the Thomson heptagon. (English summary) **2005j:76021**
Solodov, Alexander (*with* Ochkov, Valery) ★ Differential models.
Turek, Stefan *see* **Kilian, Susanne, 2005a:76001**

76–05 Experimental work

Items with secondary classifications in 76–05

Abshagen, Jan *see* **Langenberg, J. et al.**
Afanas'ev, Ya. D. (*with* Korabel, V. N.) Starting vortex dipoles in a viscous fluid: asymptotic theory, numerical simulations, and laboratory experiments. (English summary) **2005e:76037**
Al-Bender, F. *see* **Gilio, M. et al., 2005m:76017**
Alvarez-Lacalle, E. (*with* Ortín, J.; Casademunt, Jaume) Low viscosity contrast fingering in a rotating Hele-Shaw cell. (English summary) **2005a:76064**
Aubert, Julien *see* **Jung, Sunghwan et al.**
Baines, P. G. *see* **Smirnov, S. A. et al.**
Bamberger, Andreas (*with* Bänsch, Eberhard; Siebert, Kunibert G.) Experimental and numerical investigation of edge tones. (English summary) **2005c:76037**
Bänsch, Eberhard *see* **Bamberger, Andreas et al., 2005c:76037**
Bonneton, Natalie *see* **Sous, Damien et al.**
Boyer, Don L. *see* **Smirnov, S. A. et al.**
Busse, Friedrich H. *see* **Müller, Ulrich[1] et al., 2005f:76114**
Casademunt, Jaume *see* **Alvarez-Lacalle, E. et al., 2005a:76064**
Cea, L. (*with* Ferreiro Ferreiro, Ana M.; Vázquez-Cendón, María Elena; Puertas, J.) Experimental and numerical analysis of solitary waves generated by bed and boundary movements. (English summary) **2005g:86004**
Diez, Javier Alberto *see* **Kondic, Lou, 2005b:76060**
Draney, Mary T. *see* **Taylor, Charles A., 2005a:76182**
Ferreiro Ferreiro, Ana M. *see* **Cea, L. et al., 2005g:86004**
Gilio, M. (*with* Al-Bender, F.; Kruth, J.-P.) The dynamics of a moving sheet of liquid. II. Experiments. (English summary) **2005m:76017**
Jung, Sunghwan (*with* Storey, Brian D.; Aubert, Julien; Swinney, Harry L.) Nonextensive statistical mechanics for rotating quasi-two-dimensional turbulence. (English summary)
Kakhiani, V. O. *see* **Kalashnik, M. V. et al., 2005i:76031**
Kalashnik, M. V. (*with* Kakhiani, V. O.; Lominadze, D. G.; Patarashvili, K. I.; Svirkunov, P. N.; Tsakadze, S. D.) Nonlinear isochronous oscillations of a fluid in a paraboloid: theory and experiment. (Russian. Russian summary) **2005i:76031**
Kondic, Lou (*with* Diez, Javier Alberto) Instabilities in the flow of thin films on heterogeneous surfaces. (English summary) **2005b:76060**
Korabel, V. N. *see* **Afanas'ev, Ya. D., 2005e:76037**
Kruth, J.-P. *see* **Gilio, M. et al., 2005m:76017**
Langenberg, J. (*with* Pfister, Gerd; Abshagen, Jan) The effect of physical boundaries on oscillatory bifurcation in counterrotating Taylor-Couette flow. (English summary)
Lominadze, D. G. *see* **Kalashnik, M. V. et al., 2005i:76031**
Müller, Ulrich[1] (*with* Stieglitz, R.; Busse, Friedrich H.) On the sensitivity of dynamo action to the system's magnetic diffusivity. (English summary) **2005f:76114**
Ortín, J. *see* **Alvarez-Lacalle, E. et al., 2005a:76064**
Patarashvili, K. I. *see* **Kalashnik, M. V. et al., 2005i:76031**
Pfister, Gerd *see* **Langenberg, J. et al.**
Puertas, J. *see* **Cea, L. et al., 2005g:86004**
Siebert, Kunibert G. *see* **Bamberger, Andreas et al., 2005c:76037**
Smirnov, S. A. (*with* Baines, P. G.; Boyer, Don L.; Voropaev, S. I.; Srdic-Mitrovic, A. N.) Long-time evolution of linearly stratified spin-up flows in axisymmetric geometries. (English summary)
Sommeria, Joël *see* **Sous, Damien et al.**
Sous, Damien (*with* Bonneton, Natalie; Sommeria, Joël) Turbulent vortex dipoles in a shallow water layer. (English summary)
— (*with* Bonneton, Natalie; Sommeria, Joël) Transition from deep to shallow water layer: formation of vortex dipoles. (English summary)
Srdic-Mitrovic, A. N. *see* **Smirnov, S. A. et al.**
Stieglitz, R. *see* **Müller, Ulrich[1] et al., 2005f:76114**
Storey, Brian D. *see* **Jung, Sunghwan et al.**
Svirkunov, P. N. *see* **Kalashnik, M. V. et al., 2005i:76031**
Swinney, Harry L. *see* **Jung, Sunghwan et al.**
Taylor, Charles A. (*with* Draney, Mary T.) Experimental and computational methods in cardiovascular fluid mechanics. (English summary) **2005a:76182**
Tsakadze, S. D. *see* **Kalashnik, M. V. et al., 2005i:76031**
Vázquez-Cendón, María Elena *see* **Cea, L. et al., 2005g:86004**
Voropaev, S. I. *see* **Smirnov, S. A. et al.**

76–06 Proceedings, conferences, collections, etc.

Baines, Michael Preface [Special issue: 8th ICFD conference on Numerical Methods for Fluid Dynamics. Part 1].
(Bejan, Adrian) *see* **Emerging technologies and techniques in porous media, 2005c:76001**
(Brebbia, C. A.) *see* **Advances in fluid mechanics V, 2005b:76003**
Castro, Ian P. Preface [Invited papers from the 9th EUROMECH European Turbulence Conference].
(Chetverushkin, B. N.) *see* **Parallel computational fluid dynamics, 2005b:76005**
(Davis, Stephen H.) *see* **Annual review of fluid mechanics. Vol. 37, 2005h:76002**
(Ecer, A.) *see* **Parallel computational fluid dynamics, 2005b:76005**

(Ferriz-Mas, Antonio) *see* **Advances in nonlinear dynamos, 2005b:76004**
(Fox, Patricia L.) *see* **Parallel computational fluid dynamics, 2005b:76005**
(Friedlander, Susan J.) *see* **Handbook: Mathematical fluid dynamics, Vol. III, 2005f:76002**
(Ingham, Derek B.) *see* **Emerging technologies and techniques in porous media, 2005c:76001**
(Iske, Armin) *see* **Mathematical methods and modelling in hydrocarbon exploration and production, 2005i:76002**
Kawahara, Mutsuto Editorial [Japan US Symposium on Flow Simulation and Modelling]. — Editorial [12th International Conference on Finite Element Methods in Fluids]. — Editorial [Special issue: finite elements].
(Lajos, Tamás) *see* **Modelling fluid flow, 2005g:76002**
(Lee, Ding) *see* **Theoretical and computational acoustics '99**
(Lumley, John L.) *see* **Annual review of fluid mechanics. Vol. 37, 2005h:76002**
(Mamut, Eden) *see* **Emerging technologies and techniques in porous media, 2005c:76001**
(Mendes, A. C. R.) *see* **Advances in fluid mechanics V, 2005b:76003**
(Moin, Parviz) *see* **Annual review of fluid mechanics. Vol. 37, 2005h:76002**
(Núñez Jiménez, Manuel) *see* **Advances in nonlinear dynamos, 2005b:76004**
(Periaux, Jacques) *see* **Parallel computational fluid dynamics, 2005b:76005**
(Pop, Ioan^2) *see* **Emerging technologies and techniques in porous media, 2005c:76001**
(Rahman, Matiur) *see* **Advances in fluid mechanics V, 2005b:76003**
(Randen, Trygve) *see* **Mathematical methods and modelling in hydrocarbon exploration and production, 2005i:76002**
(Satofuka, N.) *see* **Parallel computational fluid dynamics, 2005b:76005**
(Schilling, Rudolf) *see* **Modelling fluid flow, 2005g:76002**
(Seriani, Géza) *see* **Theoretical and computational acoustics '99**
(Serre, Denis) *see* **Handbook: Mathematical fluid dynamics, Vol. III, 2005f:76002**
(Vad, János) *see* **Modelling fluid flow, 2005g:76002**

Items listed otherwise than by author

Advances in fluid mechanics V ★ Advances in fluid mechanics V. **2005b:76003**
Advances in nonlinear dynamos ★ Advances in nonlinear dynamos. **2005b:76004**
Annual review of fluid mechanics. Vol. 37 ★ Annual review of fluid mechanics. Vol. 37. **2005h:76002**
Budapest ★ Modelling fluid flow. **2005g:76002**
Constanta ★ Emerging technologies and techniques in porous media. **2005c:76001**
Emerging technologies and techniques in porous media ★ Emerging technologies and techniques in porous media. **2005c:76001**
Handbook:
Mathematical fluid dynamics, Vol. III ★ Handbook of mathematical fluid dynamics. Vol. III. **2005f:76002**
Lisbon ★ Advances in fluid mechanics V. **2005b:76003**
Mathematical methods and modelling in hydrocarbon exploration and production ★ Mathematical methods and modelling in hydrocarbon exploration and production. **2005i:76002**
Modelling fluid flow ★ Modelling fluid flow. **2005g:76002**
Moscow ★ Parallel computational fluid dynamics. **2005b:76005**
Parallel computational fluid dynamics ★ Parallel computational fluid dynamics. **2005b:76005**
Theoretical and computational acoustics '99 ★ Theoretical and computational acoustics '99.
Trieste ★ Theoretical and computational acoustics '99.

Items with secondary classifications in 76–06

(Abramson, David) *see* **Computational science—ICCS 2003. Part I, 2005c:00014**
(Attinger, Sabine) *see* **Multiscale modelling and simulation, 2005d:65007**
(Baines, Michael) *see* **Conference: Numerical Methods for Fluid Dynamics, 8th ICFD, Part 2**
(Biler, Piotr) *see* **Nonlocal elliptic and parabolic problems, 2005m:35005**
(Bogdanov, A. V.) *see* **Computational science—ICCS 2003. Part I, 2005c:00014**
(Brebbia, C. A.) *see* **Moving boundaries VII, 2005b:65003** *and* **Boundary elements XXVI, 2005d:65006**
(Breitkopf, Piotr) *see* **Meshfree & particle based approaches in computational mechanics, 2005f:74002**
(Chen, Gui Qiang) *see* **Nonlinear partial differential equations and related analysis, 2005m:35004**
(Cohen, Gary C.) *see* **Mathematical and numerical aspects of wave propagation—WAVES 2003, 2005b:00020**
Constantin, Adrian (*with* Escher, Joachim) Foreword [Wave motion].
(Cullen, Michael J. P.) *see* **Conference: Numerical Methods for Fluid Dynamics, 8th ICFD, Part 2**
(Davies, Ian M.) *see* **Probabilistic methods in fluids, 2005c:60001**
(Dervieux, Alain) *see* **Fluid-structure interaction, 2005b:74043**
(Dmitriev, Vyacheslav Ivanovich) *see* **Samarskiĭ, Aleksandr Andreevich, 2005f:01016**
(Dongarra, Jack J.) *see* **Computational science—ICCS 2003. Part I, 2005c:00014**
(Elizarov, A. M.) *see* **Numerical methods for solving linear and nonlinear boundary value problems, 2005b:00029**
Escher, Joachim *see* **Constantin, Adrian**
(Evtushenko, Yuriĭ Gavrilovich) *see* **Moiseev, Nikita Nikolaevich**
(Farmer, Christopher) *see* **Conference: Numerical Methods for Fluid Dynamics, 8th ICFD, Part 2**
Feireisl, Eduard (*with* Málek, Josef; Novotný, Antonín; Rokyta, Mirko; Růžička, Michael) Foreword [Proceedings of the Eighth International School on Mathematical Theory in Fluid Mechanics in memory of Professor Jindřich Nečas].
(Flerov, Yu. A.) *see* **Moiseev, Nikita Nikolaevich**
(Galdi, Giovanni P.) *see* **Contributions to current challenges in mathematical fluid mechanics, 2005c:35003**
(Gasper, George) *see* **Nonlinear partial differential equations and related analysis, 2005m:35004**
(Giles, Michael B.) *see* **Conference: Numerical Methods for Fluid Dynamics, 8th ICFD, Part 2**
(Gorbachev, Yu. E.) *see* **Computational science—ICCS 2003. Part I, 2005c:00014**
(Guillopé, Laurent) *see* **Proceedings: Mathematics Colloquium in Memory of Jean Leray, 2005m:35007**
(Gulin, A. V.) *see* **Samarskiĭ, Aleksandr Andreevich, 2005f:01016**
(Hassan, Oubay) *see* **Probabilistic methods in fluids, 2005c:60001**
(Heikkola, Erkki) *see* **Mathematical and numerical aspects of wave propagation—WAVES 2003, 2005b:00020**
(Heywood, John G.) *see* **Contributions to current challenges in mathematical fluid mechanics, 2005c:35003**
(Huerta, Antonio) *see* **Meshfree & particle based approaches in computational mechanics, 2005f:74002**
Iosifescu, Marius (*with* Sofonea, Mircea; Rădulescu, Vicenţiu) Editorial [Actes du 6-ème Colloque Franco-Roumain de Mathématiques Appliquées]. [Editorial [Proceedings of the Sixth Franco-Romanian Colloquium on Applied Mathematics]]
(Jacob, Niels) *see* **Probabilistic methods in fluids, 2005c:60001**
(Jerome, Joseph W.) *see* **Nonlinear partial differential equations and related analysis, 2005m:35004**
(Joly, Patrick) *see* **Mathematical and numerical aspects of wave propagation—WAVES 2003, 2005b:00020**
(Karch, Grzegorz) *see* **Nonlocal elliptic and parabolic problems, 2005m:35005**
(Kolmogorov, Andreĭ Nikolaevich) *see* **Kolmogorov legacy in physics, 2005a:00023**
(Koumoutsakos, Petros) *see* **Multiscale modelling and simulation, 2005d:65007**
(Lapin, A. V.) *see* **Numerical methods for solving linear and nonlinear boundary value problems, 2005b:00029**
(Leray, Jean) *see* **Proceedings: Mathematics Colloquium in Memory of Jean Leray, 2005m:35007**
(Livi, Roberto) *see* **Kolmogorov legacy in physics, 2005a:00023**
Málek, Josef *see* **Feireisl, Eduard et al.**
(Mammoli, A. A.) *see* **Moving boundaries VII, 2005b:65003**
Moiseev, Nikita Nikolaevich ★ Избранные труды. 1. (Russian) [Selected works. 1]
(Monaco, Roberto) *see* **Conference: Waves and Stability in Continuous Media, 12th, "WASCOM 2003", 2005c:00016**
(Morgan, Kenneth) *see* **Probabilistic methods in fluids, 2005c:60001**
(Nadzieja, Tadeusz) *see* **Nonlocal elliptic and parabolic problems, 2005m:35005**
(Nečas, Jindřich) *see* **Feireisl, Eduard et al.**
(Neittaanmäki, Pekka) *see* **Mathematical and numerical aspects of wave propagation—WAVES 2003, 2005b:00020**
(Nodera, Takashi) *see* **Mathematics of destructive phenomena**
Novotný, Antonín *see* **Feireisl, Eduard et al.**
(Parkhomenko, V. P.) *see* **Moiseev, Nikita Nikolaevich**
(Pavlovskiĭ, Yu. N.) *see* **Moiseev, Nikita Nikolaevich**
(Pennisi, Sebastiano) *see* **Conference: Waves and Stability in Continuous Media, 12th, "WASCOM 2003", 2005c:00016**
(Petrov, Aleksandr Aleksandrovich) *see* **Moiseev, Nikita Nikolaevich**
(Rabbitt, Michael) *see* **Conference: Numerical Methods for Fluid Dynamics, 8th ICFD, Part 2**
Rădulescu, Vicenţiu *see* **Iosifescu, Marius et al.**
(Rannacher, Rolf) *see* **Contributions to current challenges in mathematical fluid mechanics 2005c:35003**
(Rionero, Salvatore) *see* **Conference: Waves and Stability in Continuous Media, 12th, "WASCOM 2003", 2005c:00016**
(Robert, Didier) *see* **Proceedings: Mathematics Colloquium in Memory of Jean Leray 2005m:35007**
(Rodrigues, José-Francisco) *see* **Trends in partial differential equations of mathematical physics, 2005j:00021**
Rokyta, Mirko *see* **Feireisl, Eduard et al.**
(Ruggeri, Tommaso) *see* **Conference: Waves and Stability in Continuous Media, 12th, "WASCOM 2003", 2005c:00016**
Růžička, Michael *see* **Feireisl, Eduard et al.**
Samarskiĭ, Aleksandr Andreevich ★ Избранные труды А. А. Самарского. (Russian [Selected works of A. A. Samarskiĭ] **2005f:01016**
(Serëgin, G. A.) *see* **Trends in partial differential equations of mathematical physics, 2005j:00021**
(Sloot, Peter M. A.) *see* **Computational science—ICCS 2003. Part I, 2005c:00014**
Sofonea, Mircea *see* **Iosifescu, Marius et al.**
Swinney, Harry L. (*with* Tsallis, Constantino) Preface: Anomalous distributions, nonlinear dynamics, and nonextensivity.
(Tani, Atusi) *see* **Mathematics of destructive phenomena**
(Tarko, A. M.) *see* **Moiseev, Nikita Nikolaevich**
(Ter-Krikorov, A. M.) *see* **Moiseev, Nikita Nikolaevich**
(Truman, Aubrey) *see* **Probabilistic methods in fluids, 2005c:60001**
Tsallis, Constantino *see* **Swinney, Harry L.**
(Urbano, José Miguel) *see* **Trends in partial differential equations of mathematical physics, 2005j:00021**
(Vulpiani, Angelo) *see* **Kolmogorov legacy in physics, 2005a:00023**
(Weatherill, N. P.) *see* **Probabilistic methods in fluids, 2005c:60001**
(Zomaya, Albert Y.) *see* **Computational science—ICCS 2003. Part I, 2005c:00014**

Items listed otherwise than by author

Będlewo ★ Nonlocal elliptic and parabolic problems. **2005m:35005**
Bibliography:
Moiseev, Nikita Nikolaevich *see* **Moiseev, Nikita Nikolaevich**
Bologna ★ Boundary elements XXVI. **2005d:65006**
Boundary elements XXVI ★ Boundary elements XXVI. **2005d:65006**
Collected Works:
Moiseev, Nikita Nikolaevich *see* **Moiseev, Nikita Nikolaevich**
Samarskiĭ, Aleksandr Andreevich *see* **Samarskiĭ, Aleksandr Andreevich, 2005f:01016**
Computational science—ICCS 2003. Part I ★ Computational science—ICCS 2003. Part I. **2005c:00014**
Conference:
Numerical Methods for Fluid Dynamics, 8th ICFD, Part 2 ★ 8th ICFD Conference on Numerical Methods for Fluid Dynamics. Part 2.

Conference: (*cont'd.*)
Waves and Stability in Continuous Media, 12th, "WASCOM 2003" ★ "WASCOM 2003"—12th Conference on Waves and Stability in Continuous Media. **2005c:00016**
Contemporary Mathematics ★ Nonlinear partial differential equations and related analysis. **2005m:35004**
Contributions to current challenges in mathematical fluid mechanics ★ Contributions to current challenges in mathematical fluid mechanics. **2005c:35003**
Evanston, IL ★ Nonlinear partial differential equations and related analysis. **2005m:35004**
Fluid-structure interaction ★ Fluid-structure interaction. **2005b:74043**
Jyväskylä ★ Mathematical and numerical aspects of wave propagation—WAVES 2003. **2005b:00020**
Kazan' ★ Численные методы решения линейных и нелинейных краевых задач. (Russian) [Numerical methods for solving linear and nonlinear boundary value problems] **2005b:00029**
Kolmogorov legacy in physics ★ The Kolmogorov legacy in physics. **2005a:00023**
Lecture Notes in Computer Science ★ Computational science—ICCS 2003. Part I. **2005c:00014**
Lecture Notes in Physics ★ The Kolmogorov legacy in physics. **2005a:00023**
Lugano ★ Multiscale modelling and simulation. **2005d:65007**
Mathematical and numerical aspects of wave propagation—WAVES 2003 ★ Mathematical and numerical aspects of wave propagation—WAVES 2003. **2005b:00020**
Mathematics of destructive phenomena ★ Hakai genshō no sūri. [Mathematics of destructive phenomena]
Melbourne ★ Computational science—ICCS 2003. Part I. **2005c:00014**
Meshfree & particle based approaches in computational mechanics ★ Meshfree & particle based approaches in computational mechanics. **2005f:74002**
Moving boundaries VII ★ Moving boundaries VII. **2005b:65003**
Multiscale modelling and simulation ★ Multiscale modelling and simulation. **2005d:65007**
Nantes ★ Actes des Journées Mathématiques à la Mémoire de Jean Leray. (French) [Proceedings of the Mathematics Colloquium in Memory of Jean Leray] **2005m:35007**
Nonlinear partial differential equations and related analysis ★ Nonlinear partial differential equations and related analysis. **2005m:35004**
Nonlocal elliptic and parabolic problems ★ Nonlocal elliptic and parabolic problems. **2005m:35005**
Numerical methods for solving linear and nonlinear boundary value problems ★ Численные методы решения линейных и нелинейных краевых задач. (Russian) [Numerical methods for solving linear and nonlinear boundary value problems] **2005b:00029**
Óbidos ★ Trends in partial differential equations of mathematical physics. **2005j:00021**
Oxford ★ 8th ICFD Conference on Numerical Methods for Fluid Dynamics. Part 2.
Probabilistic methods in fluids ★ Probabilistic methods in fluids. **2005c:60001**
Proceedings:
Mathematics Colloquium in Memory of Jean Leray ★ Actes des Journées Mathématiques à la Mémoire de Jean Leray. (French) [Proceedings of the Mathematics Colloquium in Memory of Jean Leray] **2005m:35007**
Santa Fe, NM ★ Moving boundaries VII. **2005b:65003**
St. Petersburg ★ Computational science—ICCS 2003. Part I. **2005c:00014**
Swansea ★ Probabilistic methods in fluids. **2005c:60001**
Trends in partial differential equations of mathematical physics ★ Trends in partial differential equations of mathematical physics. **2005j:00021**
Villasimius ★ "WASCOM 2003"—12th Conference on Waves and Stability in Continuous Media. **2005c:00016**
Yokohama ★ Hakai genshō no sūri. [Mathematics of destructive phenomena]

76Axx Foundations, constitutive equations, rheology

Walkington, Noel J. Macroscopic models of fluids with microstructure. (English summary) **2005b:76006**

Items with secondary classifications in 76Axx

Kröger, Martin Simple models for complex nonequilibrium fluids. (English summary) **2005c:82091**

76A02 Foundations of fluid mechanics

Antoniou, Ioannis E. (*with* Pron'ko, G. P.) The Hamiltonian formalism in fluid dynamics. (Russian. Russian summary) **2005k:76002**
Baleanu, Dumitru Metafluid dynamics and Hamilton-Jacobi formalism. (English summary) **2005k:76003**
Bechtel, Stephen E. (*with* Rooney, Francis J.; Wang, Qi^2) A thermodynamic definition of pressure for incompressible viscous fluids. (English summary)
Bissonnet, P. On the concepts which lie at the foundation of field flow mechanics. (English summary)
Golse, François (*with* Saint-Raymond, Laure) The Navier-Stokes limit of the Boltzmann equation for bounded collision kernels. (English summary) **2005f:76003**
Jackiw, Roman ★ Lectures on fluid dynamics. (English summary) **2005a:76003**
Masmoudi, Nader Hydrodynamic limits of the Boltzmann equation. (English summary) **2005c:76002**
Pron'ko, G. P. *see* **Antoniou, Ioannis E., 2005k:76002**
Robert, Raoul Statistical hydrodynamics (Onsager revisited). **2005a:76004**
Rooney, Francis J. *see* **Bechtel, Stephen E. et al.**
Saint-Raymond, Laure *see* **Golse, François, 2005f:76003**
Subin, P. J. (*with* Vedan, M. J.) Vorticity invariants in hydrodynamics. (English summary) **2005a:76005**
Vedan, M. J. *see* **Subin, P. J., 2005a:76005**
Wang, Qi^2 *see* **Bechtel, Stephen E. et al.**

Items with secondary classifications in 76A02

Bellouquid, Abdelghani From discrete Boltzmann equation to compressible linearized Euler equations. (English summary) **2005k:82080**
— On the asymptotic analysis of kinetic models towards the compressible Euler and acoustic equations. (English summary) **2005i:76096**
Bouchut, François (*with* Golse, François; Pulvirenti, Mario) ★ Kinetic equations and asymptotic theory. **2005d:82102**
Brenner, Howard Navier-Stokes revisited. (English summary) **2005j:76078**
Cendra, Hernán (*with* Marsden, Jerrold E.; Ratiu, Tudor S.) Cocycles, compatibility, and Poisson brackets for complex fluids. (English summary) **2005h:37205**
Coveney, Peter V. *see* **Delgado-Buscalioni, Rafael, 2005c:82090**
Cowin, S. C. *see* **Mehrabadi, M. M. et al., 2005m:76009**
Degond, Pierre Macroscopic limits of the Boltzmann equation: a review. (English summary) **2005d:82105**
Delgado-Buscalioni, Rafael (*with* Coveney, Peter V.) Hybrid molecular-continuum fluid dynamics. (English summary) **2005c:82090**
(Desvillettes, Laurent) *see* **Bouchut, François et al., 2005d:82102**
Eringen, A. Cemal On a rational theory of turbulence. (English summary) **2005i:76058**
— A continuum theory of dense suspensions. (English summary) **2005m:76181**
Esposito, Raffaele (*with* Pulvirenti, Mario) From particles to fluids. **2005f:82098**
Eu, Byung Chan Generalized hydrodynamics and irreversible thermodynamics. **2005b:82073**
Forster, Christina (*with* Hirschl, Robin; Posch, Harald A.; Hoover, William G.) Perturbed phase-space dynamics of hard-disk fluids. (English summary) **2005a:82054**
Friedlander, Susan J. (*with* Pavlović, Nataša) Remarks concerning modified Navier-Stokes equations. (English summary) **2005a:76043**
Golse, François *see* **Bouchut, François et al., 2005d:82102**
Gruber, Christian (*with* Pache, Séverine; Lesne, Annick) On the second law of thermodynamics and the piston problem. (English summary) **2005h:80001**
Hirschl, Robin *see* **Forster, Christina et al., 2005a:82054**
Hoover, William G. *see* **Forster, Christina et al., 2005a:82054**
Laug, Patrick *see* **Tomasi, Jacopo et al., (2005c:81001)**
Lesne, Annick *see* **Gruber, Christian et al., 2005h:80001**
Marsden, Jerrold E. *see* **Cendra, Hernán et al., 2005h:37205**
Massoudi, M. *see* **Mehrabadi, M. M. et al., 2005m:76009**
Mehrabadi, M. M. (*with* Cowin, S. C.; Massoudi, M.) Conservation laws and constitutive relations for density-gradient-dependent viscous fluids. (English summary) **2005m:76009**
Mennucci, B. *see* **Tomasi, Jacopo et al., (2005c:81001)**
Nachtergaele, Bruno (*with* Yau, Horng-Tzer) Derivation of the Euler equations from quantum dynamics. (English summary) **2005e:82071**
Orlov, Yu. N. On the derivation of equations of hydrodynamics in the framework of the functional Bogolyubov conjecture. (Russian. Russian summary) **2005e:82107**
Otway, Thomas H. Geometric analysis near and across a sonic curve. (English summary) **2005e:58034**
Pache, Séverine *see* **Gruber, Christian et al., 2005h:80001**
Pavlović, Nataša *see* **Friedlander, Susan J., 2005a:76043**
(Perthame, Benoît) *see* **Bouchut, François et al., 2005d:82102**
Posch, Harald A. *see* **Forster, Christina et al., 2005a:82054**
Pulvirenti, Mario *see* **Bouchut, François et al., 2005d:82102** *and* **Esposito, Raffaele, 2005f:82098**
Ratiu, Tudor S. *see* **Cendra, Hernán et al., 2005h:37205**
Tarasov, V. E. Fractional hydrodynamic equations for fractal media. (English summary) **2005m:76176**
Tomasi, Jacopo (*with* Mennucci, B.; Laug, Patrick) The modeling and simulation of the liquid phase. (*see* **2005c:81001**)
Villani, Cédric Limites hydrodynamiques de l'équation de Boltzmann (d'après C. Bardos, F. Golse, C. D. Levermore, P.-L. Lions, N. Masmoudi, L. Saint-Raymond). (French summary) [Hydrodynamic limits of the Boltzmann equation (following C. Bardos, F. Golse, C. D. Levermore, P.-L. Lions, N. Masmoudi, L. Saint-Raymond)] **2005f:82108**
Yau, Horng-Tzer *see* **Nachtergaele, Bruno, 2005e:82071**

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Akulenko, L. D. (*with* Georgievskiĭ, D. V.; Klimov, D. M.; Kumakshev, S. A.; Nesterov, Sergeĭ V.) Stationary flow of a viscoplastic medium with small yield stress in a plane confusor. (English summary) **2005f:76004**
Akyildiz, F. Talay (*with* Bellout, Hamid; Vajravelu, K.) Exact solutions of nonlinear differential equations arising in third grade fluid flows. (English summary) **2005c:76003**
Asghar, Saleem (*with* Gulzar, M. Mudassar; Hayat, Tasawar) Rotating flow of a third grade fluid by homotopy analysis method. (English summary) **2005k:76004**
— *see also* **Hayat, Tasawar et al., 2005c:76008**
Attia, Hazem Ali (*with* Sayed-Ahmed, Mohamed Eissa) Non-Newtonian conducting fluid flow and heat transfer due to a rotating disk. (English summary) **2005e:76001**
— Numerical study of flow and heat transfer of a non-Newtonian fluid on a rotating porous disk. (English summary) **2005h:76003**
Ayub, M. *see* **Hayat, Tasawar et al., 2005f:76007**
Babik, F. *see* **Vola, Didier et al.**
Basov, I. V. An estimate for the width of the rigid zone of a flow of a compressible Bingham fluid under loss of equilibrium. (Russian) **2005j:76001**
Bayrakçeken, Hüseyin *see* **Yürüsoy, Muhammet**
Bellout, Hamid *see* **Akyildiz, F. Talay et al., 2005c:76003**
Borrelli, Alessandra (*with* Patria, M. Cristina; Piras, E.) Spatial decay estimates in the problem of entry flow for a Bingham fluid filling a pipe. (English summary) **2005e:76002**
Brigadnov, Igor A. (*with* Dorfmann, Al) Mathematical modeling of magnetorheological fluids. (English summary) **2005k:76005**
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— (*with* Kesavan, Srinivasan) Asymptotic behaviour of a Bingham fluid in thin layers. (English summary) **2005b:76007**
Busuioc, Adriana Valentina (*with* Ratiu, Tudor S.) Some remarks on a certain class of axisymmetric fluids of differential type. (English summary) **2005c:76004**
Buzescu, Florina-Liliana *see* **Fetecău, Corina et al., 2005m:76006**
Chen, Zu Chi *see* **Fakhar, K.**

Čiegis, Raimondas (*with* Iliev, Oleg; Rief, Stefan; Steiner, Konrad) On modeling and simulation of different regimes for liquid polymer moulding. (English summary) **2005h:76004**
Consiglieri, L. (*with* Rodrigues, José-Francisco; Shilkin, T.) A limit model for unidirectional non-Newtonian flows with nonlocal viscosity. (English summary) **2005m:76001**
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Dabrowski, Paul P. *see* **Denier, James P., 2005f:76005**
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— (*with* Scarpi, Giambattista) Start-up flow of a Bingham fluid in a pipe. (English summary) **2005k:76006**
Denier, James P. (*with* Dabrowski, Paul P.) On the boundary-layer equations for power-law fluids. (English summary) **2005f:76005**
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Dorfmann, Al *see* **Brigadnov, Igor A., 2005k:76005**
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Èskin, L. D. Equations that describe the dynamics of a non-Newtonian fluid with the Reiner-Rivlin rheological law. I. Group analysis. (Russian) **2005c:76006**
— Equations that describe the dynamics of a non-Newtonian fluid with a Reiner-Rivlin rheological law. II. (Russian) **2005e:76003**
— *see also* **Tonkonog, S. L., 2005c:76009**
Fabijonas, Bruce R. (*with* Holm, Darryl D.) Euler-Poincaré formulation and elliptic instability for nth-gradient fluids. (English summary) **2005g:76003**
Fakhar, K. (*with* Chen, Zu Chi) Steady flow of third grade fluid subject to suction. (English summary)
Fetecău, Constantin (*with* Fetecău, Corina) Unsteady helical flows of a Maxwell fluid. (English summary) **2005i:76003**
— (*with* Fetecău, Corina) Some unsteady motions of a second grade fluid in an edge. (English summary) **2005m:76005**
— (*with* Fetecău, Corina) Decay of a potential vortex in an Oldroyd-B fluid. (English summary) **2005i:76004**
— *see also* **Fetecău, Corina et al., 2005b:76008**; **2005h:76005** *and* **2005m:76006**
Fetecău, Corina (*with* Fetecău, Constantin) Influence of internal friction on heat propagation in a shearing flow of a second grade fluid. (English summary) **2005b:76008**
— Flow induced by a constantly accelerating edge in a Maxwell fluid. (English summary) **2005f:76006**
— (*with* Fetecău, Constantin) Flow induced by a constantly accelerating plate in a Maxwell fluid. (English summary) **2005h:76005**
— (*with* Buzescu, Florina-Liliana; Fetecău, Constantin) Some new exact solutions for the linear flow of a non-Newtonian fluid. (English summary) **2005m:76006**
— *see also* **Fetecău, Constantin, 2005i:76003**; **2005i:76004** *and* **2005m:76005**
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Hayat, Tasawar (*with* Khan, Masood; Siddiqui, Abdul Majeed; Asghar, Saleem) Transient flows of a second grade fluid. (English summary) **2005c:76008**
— (*with* Khan, Masood; Ayub, M.) Couette and Poiseuille flows of an Oldroyd 6-constant fluid with magnetic field. (English summary) **2005f:76007**
— (*with* Mohyuddin, Muhammad R.; Asghar, Saleem) Note on non-Newtonian flow due to a variable shear stress. (English summary)
— (*with* Kara, A. H.; Momoniat, Ebrahim) The unsteady flow of a fourth-grade fluid past a porous plate. (English summary) **2005m:76007**
— *see also* **Asghar, Saleem et al., 2005k:76004** *and* **Khan, Masood et al., 2005k:76008**
Hild, Patrick (*with* Ionescu, Ioan R.; Lachand-Robert, Thomas; Roşca, Ioan) Stress formulation for the blocking property of the inhomogeneous Bingham fluid. (French summary)
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İmrak, C. Erdem *see* **Erdoğan, M. Emin, 2005m:76004**
Ionescu, Ioan R. *see* **Hild, Patrick et al.**
Jourdain, Benjamin (*with* Lelièvre, Tony; Le Bris, Claude) Existence of solution for a micro-macro model of polymeric fluid: the FENE model. (English summary) **2005a:76006**
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Khan, Masood (*with* Nadeem, Sohail; Hayat, Tasawar; Siddiqui, Abdul Majeed) Unsteady motions of a generalized second-grade fluid. (English summary) **2005k:76008**
— *see also* **Hayat, Tasawar et al., 2005c:76008** *and* **2005f:76007**
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Lelièvre, Tony *see* **Jourdain, Benjamin et al., 2005a:76006**
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Massoudi, M. (*with* Phuoc, T. X.) Flow of a generalized second grade non-Newtonian fluid with variable viscosity. (English summary) **2005e:76004**
— *see also* **Mehrabadi, M. M. et al., 2005m:76009**
Mehrabadi, M. M. (*with* Cowin, S. C.; Massoudi, M.) Conservation laws and constitutive relations for density-gradient-dependent viscous fluids. (English summary) **2005m:76009**
Mogilevskiĭ, I. Sh. (*with* Zakharova, I. V.) The stationary flows for a certain type of non-Newtonian fluids. (English summary) **2005j:76002**
Mohyuddin, Muhammad R. *see* **Hayat, Tasawar et al.**
Momoniat, Ebrahim *see* **Hayat, Tasawar et al., 2005m:76007**
Nadeem, Sohail *see* **Khan, Masood et al., 2005k:76008**
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Pakdemirli, M. *see* **Dolapçı, İ. T., 2005c:76005**
Patria, M. Cristina *see* **Borrelli, Alessandra et al., 2005e:76002**
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Souza Mendes, Paulo R. *see* **Thompson, Roney L., 2005h:76007**
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Steinhauer, Mark *see* **Frehse, Jens et al., 2005c:76007**
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Tan, Wenchang (*with* Xu, Mingyu) Unsteady flows of a generalized second grade fluid with the fractional derivative model between two parallel plates. (English summary)
Thompson, Roney L. (*with* Souza Mendes, Paulo R.) Persistence of straining and flow classification. (English summary) **2005h:76007**
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Tonkonog, S. L. (*with* Èskin, L. D.) On the accuracy of approximate symmetries of equations of the dynamics of a non-Newtonian fluid and their invariant solutions. II. (Russian) **2005c:76009**
Vajravelu, K. *see* **Akyildiz, F. Talay et al., 2005c:76003**
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Wang, Wen Weak solutions of initial-boundary value problems for incompressible non-Newtonian fluids. (Chinese. English and Chinese summaries) **2005b:76010**
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Yürüsoy, Muhammet Similarity solutions of boundary layer equations for a special non-Newtonian fluid in a special coordinate system. (English summary)
— (*with* Bayrakçeken, Hüseyin) Numerical method in the analysis of slider bearing with power-law fluid. (English summary)
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Zhang, Ping Wen *see* **Li, Tiejun et al., 2005b:76009**
Zhang, Zhong Xin (*with* Wang, Jun-yu; Shi, Wei Ping[2]) A boundary layer problem arising in gravity-driven laminar film flow of power-law fluids along vertical walls. (English summary) **2005f:76008**
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Abd El Kareem, M. F. *see* **El Hakeem Abd El Naby, Abd et al., 2005f:76028**
Abdel-Rahman, Gamal M. Flow of a non-Newtonian power law through a conical bearing in an applied magnetic field. (English summary) **2005g:76035**
Abo-Eldahab, Emad M. (*with* El Aziz, Mohamed A.) Flow and heat transfer in a micropolar fluid past a stretching surface embedded in a non-Darcian porous medium with uniform free stream. (English summary) **2005g:76113**
Acerbi, E. (*with* Mingione, Giuseppe; Serëgin, G. A.) Regularity results for parabolic systems related to a class of non-Newtonian fluids. (English and French summaries) **2005a:35118**
Alexandrou, A. N. (*with* Entov, V. M.; Kolganov, S. S.; Kolganova, N. V.) On bubble rising in a Hele-Shaw cell filled with a non-Newtonian fluid. (English summary) **2005g:76041**
Ansini, Lidia (*with* Giacomelli, Lorenzo) Doubly nonlinear thin-film equations in one space dimension. (English summary) **2005e:35106**
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Bég, O. Anwar (*with* Bég, Tasveer A.; Takhar, H. S.; Raptis, A. A.) Mathematical and numerical modeling of non-Newtonian thermo-hydrodynamic flow in non-Darcy porous media. (English summary) **2005k:76129**
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Betelú, S. I. (*with* Fontelos, Marco A.) Capillarity driven spreading of circular drops of shear-thinning fluid. (English summary)
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— *see also* **Boughanim, Fouad et al., (2005i:35003)**
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Consiglieri, L. (*with* Rodrigues, José-Francisco) On stationary flows with energy dependent nonlocal viscosities. (English and Russian summaries) **2005b:76034**
Díaz Díaz, Jesús Ildefonso (*with* Straughan, B.) Global stability for convection when the viscosity has a maximum. (English summary) **2005a:76075**
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Dong, Bo-qing (*with* Li, Yong Sheng) Large time behavior to the system of incompressible non-Newtonian fluids in $\mathbf{R}^2$. (English summary) **2005e:35187**
— (*with* Zhao, Cai-di; Li, Yong Sheng) Large time behavior for weak solutions to the system of the non-Newtonian fluids. (English and Chinese summaries)
Dreyfuss, Pierre (*with* Hungerbühler, Norbert) Navier-Stokes systems with quasimonotone viscosity tensor. (English summary)
Dupuy, D. (*with* Panasenko, Grigory; Stavre, R.) Asymptotic methods for micropolar fluids in a tube structure. (English summary) **2005b:76035**
E, Wei-nan (*with* Li, Tiejun; Zhang, Ping Wen) Well-posedness for the dumbbell model of polymeric fluids. (English summary) **2005d:35210**
— *see also* **Ren, Weiqing, 2005j:76068**
El Aziz, Mohamed A. *see* **Abo-Eldahab, Emad M., 2005g:76113**
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— (*with* Elshehawey, E. F.; Elbarbary, Elsayed M. E. M.; Elgazery, Nasser S.) Chebyshev finite difference method for MHD flow of a micropolar fluid past a stretching sheet with heat transfer. (English summary) **2005g:76085**
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El Hakeem Abd El Naby, Abd (*with* El Misery, A. E. M.; Abd El Kareem, M. F.) Separation in the flow through peristaltic motion of a Carreau fluid in uniform tube. (English summary) **2005f:76028**
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Ezzat, Magdy A. Free convection flow of conducting micropolar fluid with thermal relaxation including heat sources. (English summary) **2005f:76095**
Fang, Ming[1] (*with* Gilbert, Robert P.) Compression molding. I. A generalized non-isothermal, non-Newtonian Hele-Shaw flow. (English summary) **2005a:76065**
— (*with* Gilbert, Robert P.; Xu, Yongzhi S.) Viscosity dominated flows with temperature-dependent thermal conductivity. (English summary) **2005m:35234**
— *see also* **Gilbert, Robert P., 2005h:76026**
Farhloul, Mohamed (*with* Zine, A. M.) A mixed finite element method for a quasi-Newtonian fluid flow. (English summary) **2005h:65208**
Flitton, J. C. (*with* King, John Robert) Surface-tension-driven dewetting of Newtonian and power-law fluids. (English summary) **2005h:76009**
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— *see also* **Fang, Ming[1] et al., 2005a:76065** *and* **2005m:35234**
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Guan, Zhicheng (*with* Primicerio, Mario) Shear-degradation of complex fluids: a global existence result. (English summary) **2005a:35132**
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— (*with* Naz, R.; Asghar, Saleem) Hall effects on unsteady duct flow of a non-Newtonian fluid in a porous medium. (English summary) **2005c:76091**
— (*with* Wang, Yongqi; Siddiqui, Abdul Majeed; Asghar, Saleem) A mathematical model for the study of gliding motion of bacteria on a layer of non-Newtonian slime. (English summary) **2005b:76148**
— (*with* Wang, Yongqi; Hutter, Kolumban; Asghar, Saleem; Siddiqui, Abdul Majeed) Peristaltic transport of an Oldroyd-B fluid in a planar channel. **2005g:74044**
— (*with* Hameed, M. I.; Asghar, Saleem; Siddiqui, Abdul Majeed) Some steady MHD flows of the second order fluid. (English summary) **2005a:76168**
— (*with* Hutter, Kolumban; Nadeem, Sohail; Asghar, Saleem) Unsteady hydromagnetic rotating flow of a conducting second grade fluid. (English summary) **2005f:76111**
— *see also* **Mohyuddin, Muhammad R. et al., 2005a:76132** *and* **Wang, Yongqi et al., 2005h:76103**
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L'vov, Victor S. (*with* Pomyalov, Anna; Procaccia, Itamar; Tiberkevich, Vasil) Polymer stress tensor in turbulent shear flows. (English summary) **2005k:76064**
Maazouz, Abderrim (*with* Mikelić, Andro; Pousin, Jérôme; Zeltz, Eric) Fluid injection model without surface tension for resins in thin molds. (English summary) **2005a:76051**
Mahmoud, Mostafa A. A. Unsteady MHD boundary layer flow of a non-Newtonian power-law fluid over an infinite porous flat plate embedded in a porous medium. (English summary)
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Mandal, Prasanta Kumar *see* **Chakravarty, Santabrata et al., 2005i:76133**
Mekheimer, Kh. S. Peristaltic flow of blood under effect of a magnetic field in a non-uniform channels. (English summary) **2005b:76145**
Merouani, Boubakeur *see* **Selmani, Mohamed et al., 2005k:74061**
Mikelić, Andro *see* **Maazouz, Abderrim et al., 2005a:76051**
Mingione, Giuseppe *see* **Acerbi, E. et al., 2005a:35118**
Mohamed, Mona A. A. *see* **El-Dabe, Nabile T. M.**
Mohyuddin, Muhammad R. (*with* Hayat, Tasawar; Mahomed, F. M.; Asghar, Saleem; Siddiqui, Abdul Majeed) On solutions of some non-linear differential equations arising in Newtonian and non-Newtonian fluids. (English summary) **2005a:76132**
Nadeem, Sohail *see* **Hayat, Tasawar et al., 2005f:76111**
Naz, R. *see* **Hayat, Tasawar et al., 2005c:76091**
Ngwa, G. A. *see* **Frigaard, I. A. et al., 2005h:35022**
Ouazzi, Abderrahim (*with* Turek, Stefan) Numerical methods and simulation techniques for flow with shear and pressure dependent viscosity. (English summary) (*see* **2005j:65003**)
Panasenko, Grigory *see* **Dupuy, D. et al., 2005b:76035**
Parhusip, H. A. *see* **Götz, Thomas, 2005m:76169**
Picasso, Marco (*with* Rappaz, Jacques; Reist, Adrian; Funk, Martin[2]; Blatter, Heinz) Numerical simulation of the motion of a two-dimensional glacier. (English summary) **2005g:86026**
Pomyalov, Anna *see* **L'vov, Victor S. et al., 2005k:76064**
Pousin, Jérôme *see* **Maazouz, Abderrim et al., 2005a:76051**
Primicerio, Mario *see* **Guan, Zhicheng, 2005a:35132**
Procaccia, Itamar *see* **L'vov, Victor S. et al., 2005k:76064**
Rappaz, Jacques *see* **Picasso, Marco et al., 2005g:86026**
Raptis, A. A. *see* **Bég, O. Anwar et al., 2005k:76129**
Ratiu, Tudor S. *see* **Busuioc, Adriana Valentina, 2005h:76021**
Reist, Adrian *see* **Picasso, Marco et al., 2005g:86026**
Ren, Weiqing (*with* E, Wei-nan) Heterogeneous multiscale method for the modeling of complex fluids and micro-fluidics. (English summary) **2005j:76068**
Ribe, Neil M. Coiling of viscous jets. (English summary) **2005f:76037**
Rodrigues, José-Francisco *see* **Consiglieri, L., 2005b:76034**
Růžička, Michael Modeling, mathematical and numerical analysis of electrorheological fluids. (English summary) **2005i:35223**
— *see also* **Diening, Lars, 2005g:42054**
Sadowski, Witold *see* **Łukaszewicz, Grzegorz, 2005a:35031**
Sarifuddin *see* **Chakravarty, Santabrata et al., 2005i:76133**
Scherzer, Otmar *see* **Frigaard, I. A. et al., 2005h:35022**
Selmani, Lynda *see* **Selmani, Mohamed et al., 2005k:74061**
Selmani, Mohamed (*with* Merouani, Boubakeur; Selmani, Lynda) Analysis of a class of frictional contact problems for the Bingham fluid. (English summary) **2005k:74061**
Serëgin, G. A. *see* **Acerbi, E. et al., 2005a:35118**
Shushenachev, V. Yu. *see* **Tsvelodub, O. Yu., 2005m:76071**
Siddiqui, Abdul Majeed *see* **Mohyuddin, Muhammad R. et al., 2005a:76132; Hayat, Tasawar et al., 2005a:76168; 2005b:76148; 2005g:74044** *and* **Wang, Yongqi et al., 2005h:76103**
Smaoui, Hassan *see* **Boughanim, Fouad et al., (2005i:35003)**
Stavre, R. *see* **Dupuy, D. et al., 2005b:76035**
Steinhauer, Mark ★ On analysis of some nonlinear systems of partial differential equations of continuum mechanics. (English summary) **2005h:35341**
Straughan, B. *see* **Díaz Díaz, Jesús Ildefonso, 2005a:76075**

Sviridyuk, G. A. (*with* Manakova, N. A.) The phase space of the Cauchy-Dirichlet problem for the Oskolkov equation of nonlinear filtration. (Russian) **2005a:35144**
Takhar, H. S. *see* **Bég, O. Anwar et al., 2005k:76129**
Tang, Keping *see* **Zhang, Yongbin et al., 2005m:76058**
Tani, Atusi (*with* Le Roux, C.) Steady-state solutions to the equations of motion of second-grade fluids with general Navier-type slip boundary conditions in Hölder spaces. (English summary) **2005c:35235**
Testa, Valentina (*with* Vianello, Maurizio) The symmetry group of gradient sensitive fluids. (English summary) **2005j:74002**
Tiberkevich, Vasil *see* **L'vov, Victor S. et al., 2005k:76064**
Tsvelodub, O. Yu. (*with* Shushenachev, V. Yu.) Wave regimes on a nonlinearly viscous fluid film running down a vertical plane. (Russian. Russian summary) **2005m:76071**
Turek, Stefan *see* **Ouazzi, Abderrahim**, (**2005j:65003**)
Vaidya, Ashwin Steady fall of bodies of arbitrary shape in a second-order fluid at zero Reynolds number. (English summary) **2005g:76024**
Vianello, Maurizio *see* **Testa, Valentina, 2005j:74002**
Wafo Soh, C. Invariant solutions of the unidirectional flow of an electrically charged power-law non-Newtonian fluid over a flat plate in presence of a transverse magnetic field. (English summary) **2005g:76098**
Wang, Yongqi (*with* Hayat, Tasawar; Siddiqui, Abdul Majeed) Gliding motion of bacteria on power-law slime. (English summary) **2005h:76103**
— *see also* **Hayat, Tasawar et al., 2005b:76148** *and* **2005g:74044**
Xu, Yongzhi S. *see* **Fang, Ming[1] et al., 2005m:35234**
Yürüsoy, Muhammet Group classification of three-dimensional boundary layer equations of a class of non-Newtonian fluids. (English summary) **2005g:76099**
— Similarity solutions for creeping flow and heat transfer in second grade fluid. (English summary) **2005b:76108**
Zeltz, Eric *see* **Maazouz, Abderrim et al., 2005a:76051**
Zhang, Ping Wen *see* **E, Wei-nan et al., 2005d:35210**
Zhang, Yongbin (*with* Tang, Keping; Lu, Guoshen) Model of elastohydrodynamic lubrication with molecularly thin lubricating films. I. Development of analysis. (English summary) **2005m:76058**
Zhao, Cai-di (*with* Li, Yong Sheng) A note on the asymptotic smoothing effect of solutions to a non-Newtonian system in 2-D unbounded domains. (English summary) **2005k:35343**
— *see also* **Dong, Bo-qing et al.**
Zheng, Lian Cun *see* **Lu, Chunqing, 2005e:34082**
Zhou, Hong[5] (*with* Forest, M. Gregory) A numerical study of unsteady, thermal, glass fiber drawing processes. (English summary) **2005m:65187**
Zine, A. M. *see* **Farhloul, Mohamed, 2005h:65208**

76A10 Viscoelastic fluids

Ahmad, Naseem (*with* Misra, Mamta) Visco-elastic flow through porous medium bounded by oscillating rigid plate in a slip regime. (English summary)
Arratia, P. E. (*with* Voth, Greg A.; Gollub, J. P.) Stretching and mixing of non-Newtonian fluids in time-periodic flows. (English summary) **2005m:76010**
Asghar, Saleem *see* **Hayat, Tasawar et al., 2005m:76012**
Belmonte, Andrew *see* **Smolka, Linda B. et al., 2005m:76014**
Berlyand, Leonid (*with* Khruslov, Evgeniĭ Yakovlevich) Homogenized non-Newtonian viscoelastic rheology of a suspension of interacting particles in a viscous Newtonian fluid. (English summary) **2005c:76010**
Boyer, Franck (*with* Chupin, Laurent; Fabrie, Pierre) Numerical study of viscoelastic mixtures through a Cahn-Hilliard flow model. (English summary) **2005c:76011**
Chupin, Laurent Some theoretical results concerning diphasic viscoelastic flows of the Oldroyd kind. (English summary) **2005i:76006**
— Boundary layers for stress diffusive perturbation in viscoelastic fluids. (English summary) **2005m:76011**
— *see also* **Boyer, Franck et al., 2005c:76011**
Colella, Phillip *see* **Trebotich, D. et al.**
Daugavet, M. N. *see* **Sukacheva, T. G., 2005c:76013**
Evans, Jonathan D. Re-entrant corner flows of the upper convected Maxwell fluid. (English summary) **2005j:76003**
Fabrie, Pierre *see* **Boyer, Franck et al., 2005c:76011**
Farina, Angiolo *see* **Fusi, Lorenzo, 2005e:76005**
Fusi, Lorenzo (*with* Farina, Angiolo) A mathematical model for Bingham-like fluids with visco-elastic core. (English summary) **2005e:76005**
Gatski, T. B. *see* **Jongen, T., 2005k:76010**
Gollub, J. P. *see* **Arratia, P. E. et al., 2005m:76010**
Guillopé, Colette (*with* Talhouk, Raafat) Steady flows of slightly compressible viscoelastic fluids of Jeffreys' type around an obstacle. (English summary) **2005i:76007**
— (*with* Hakim, Abdelilah; Talhouk, Raafat) Existence of steady flows of slightly compressible viscoelastic fluids of White-Metzner type around an obstacle. (English summary) **2005j:76004**
Hakim, Abdelilah *see* **Guillopé, Colette et al., 2005j:76004**
Hayat, Tasawar (*with* Mahomed, F. M.; Asghar, Saleem) Peristaltic flow of a magnetohydrodynamic Johnson-Segalman fluid. (English summary) **2005m:76012**
— Oscillatory solution in rotating flow of a Johnson-Segalman fluid. (English summary) **2005k:76009**
Henderson, Diane M. *see* **Smolka, Linda B. et al., 2005m:76014**
Jongen, T. (*with* Gatski, T. B.) Tensor representations and solutions of constitutive equations for viscoelastic fluids. (English summary) **2005k:76010**
Kalla, Shyam L. (*with* Nakhi, Yasmin) A modified form of nonlinear differential equations of non-Newtonian fluid flows. (English summary) **2005b:76011**
Kaloni, P. N. (*with* Lou, J. X.) Nonlinear convection of a viscoelastic fluid with inclined temperature gradient. (English summary) **2005k:76011**
Khayat, Roger E. (*with* Pan, Runling) Transient free-surface flow of a viscoelastic fluid in a narrow channel. (English summary) **2005e:76006**
Khruslov, Evgeniĭ Yakovlevich *see* **Berlyand, Leonid, 2005c:76010**
Lou, J. X. *see* **Kaloni, P. N., 2005k:76011**
Mahomed, F. M. *see* **Hayat, Tasawar et al., 2005m:76012**
Miller, Gregory H. *see* **Trebotich, D. et al.**
Misra, Mamta *see* **Ahmad, Naseem**
Molinet, Luc (*with* Talhouk, Raafat) On the global and periodic regular flows of viscoelastic fluids with a differential constitutive law. (English summary) **2005d:76002**
— (*with* Talhouk, Raafat) Existence and stability results for 3-D regular flows of viscoelastic fluids of White-Metzner type. (English summary) **2005e:76007**
Nakhi, Yasmin *see* **Kalla, Shyam L., 2005b:76011**
Olagunju, David O. A fourth-order eigenvalue problem arising in viscoelastic flow. (English summary)
Palmer, A. S. (*with* Phillips, T. N.) Numerical approximation of the spectra of Phan-Thien Tanner liquids. (English summary) **2005m:76013**
Pan, Runling *see* **Khayat, Roger E., 2005e:76006**
Pasquali, M. *see* **Xie, Xueying[2], (2005b:65003)**
Phillips, T. N. *see* **Palmer, A. S., 2005m:76013**
Renardy, Michael Topics in mathematical analysis of viscoelastic flow. (English summary) **2005b:76012**
Robertson, Anne M. Attainability of steady viscometric flows. **2005c:76012**
Smolka, Linda B. (*with* Belmonte, Andrew; Henderson, Diane M.; Witelski, Thomas P.) Exact solution for the extensional flow of a viscoelastic filament. (English summary) **2005m:76014**
Sukacheva, T. G. (*with* Daugavet, M. N.) A linearized model of the motion of a viscoelastic incompressible Kelvin-Voight fluid of nonzero order. (Russian. Russian summary) **2005c:76013**
Talhouk, Raafat *see* **Molinet, Luc, 2005d:76002; 2005e:76007; Guillopé, Colette et al., 2005i:76007** *and* **2005j:76004**
Trebotich, D. (*with* Colella, Phillip; Miller, Gregory H.) A stable and convergent scheme for viscoelastic flow in contraction channels. (English summary)
Voth, Greg A. *see* **Arratia, P. E. et al., 2005m:76010**
Witelski, Thomas P. *see* **Smolka, Linda B. et al., 2005m:76014**
Xie, Xueying[2] (*with* Pasquali, M.) Computing 3-D free surface viscoelastic flows. (English summary) (*see* **2005b:65003**)

Items with secondary classifications in 76A10

Abd-El-Malek, Mina B. *see* **Helal, M. M., 2005f:76081**
Abdel-Rahman, Gamal M. The fluid flow in the thin films between the immobile conic surface. (English summary) **2005a:76056**
Aboubacar, M. (*with* Phillips, T. N.; Tamaddon-Jahromi, H. R.; Snigerev, B. A.; Webster, M. F.) High-order finite volume methods for viscoelastic flow problems. (English summary) **2005b:76089**
— *see also* **Webster, M. F. et al., 2005h:76059**
Balakrishnan, Uma (*with* Usha, R.) Interfacial phase change effects on the stability characteristics of thin viscoelastic liquid film down a vertical wall. (English summary) **2005b:76059**
Bensaada, Mohammed (*with* Esselaoui, Driss) Numerical analysis of Euler-SUPG modified method for transient viscoelastic flow. (English summary) **2005k:65197**
Demir, Hüseyin Numerical modelling of viscoelastic cavity driven flow using finite difference simulations. (English summary) **2005m:76122**
Dmitrienko, V. T. *see* **Zvyagin, Viktor, 2005b:35233**
Entov, V. M. (*with* Kolganov, S. S.; Kolganova, N. V.) Motion of inviscid fluid tongues and bubbles in a Hele-Shaw cell occupied by a viscoelastic fluid. (Russian. Russian summary) **2005m:76067**
Erdoğan, M. Emin (*with* İmrak, C. Erdem) An exact solution of the governing equation of a fluid of second-grade for three-dimensional vortex flow. (English summary) **2005m:76004**
Ervin, Vincent J. (*with* Miles, William W.) Approximation of time-dependent viscoelastic fluid flow: SUPG approximation. (English summary) **2005e:65144**
— (*with* Heuer, Norbert) Approximation of time-dependent, viscoelastic fluid flow: Crank-Nicolson, finite element approximation. (English summary) **2005a:65101**
— (*with* Miles, William W.) Approximation of time-dependent, multi-component, viscoelastic fluid flow. (English summary) **2005j:76058**
— (*with* Ntasin, Louis N.) A posteriori error estimation and adaptive computation of viscoelastic fluid flow. (English summary) **2005k:76073**
Esselaoui, Driss *see* **Bensaada, Mohammed, 2005k:65197**
Fetecău, Constantin (*with* Fetecău, Corina) Decay of a potential vortex in an Oldroyd-B fluid. (English summary) **2005i:76004**
Fetecău, Corina *see* **Fetecău, Constantin, 2005i:76004**
Helal, M. M. (*with* Abd-El-Malek, Mina B.) Group method analysis of magneto-elastico-viscous flow along a semi-infinite flat plate with heat transfer. (English summary) **2005f:76081**
Heuer, Norbert *see* **Ervin, Vincent J., 2005a:65101**
İmrak, C. Erdem *see* **Erdoğan, M. Emin, 2005m:76004**
Karazeeva, N. A. Solvability of initial boundary value problems for equations describing motions of linear viscoelastic fluids. **2005m:35238**
Kolganov, S. S. *see* **Entov, V. M. et al., 2005m:76067**
Kolganova, N. V. *see* **Entov, V. M. et al., 2005m:76067**
Lee, Hyesuk A multigrid method for viscoelastic fluid flow. (English summary) **2005c:65116**
Li, Xin Kai *see* **Zhang, Rong[6]**
Liakos, A. Finite-element approximation of viscoelastic fluid flow with slip boundary condition. (English summary) **2005k:76079**
Masuoka, Takashi *see* **Tan, Wenchang, 2005i:76037**
Miles, William W. *see* **Ervin, Vincent J., 2005e:65144** *and* **2005j:76058**
Ntasin, Louis N. *see* **Ervin, Vincent J., 2005k:76073**
Obukhovskiĭ, V. V. (*with* Zecca, Pietro; Zvyagin, Viktor) Optimal feedback control in the problem of the motion of a viscoelastic fluid. (English summary) **2005f:49008**
van Os, R. G. M. (*with* Phillips, T. N.) Spectral element methods for transient viscoelastic flow problems. (English summary) **2005f:76074**
Othman, Mohamed I. A. Electrohydrodynamic instability of a rotating layer of a viscoelastic fluid heated from below. (English summary) **2005a:76084**

Phillips, T. N. *see* **Aboubacar, M. et al., 2005b:76089** *and* **van Os, R. G. M., 2005f:76074**
Shang, Yue-yun The invariant set of Olmstead model. (English and Chinese summaries)
Snigerev, B. A. *see* **Aboubacar, M. et al., 2005b:76089**
Tamaddon-Jahromi, H. R. *see* **Aboubacar, M. et al., 2005b:76089** *and* **Webster, M. F. et al., 2005h:76059**
Tan, Wenchang (*with* Masuoka, Takashi) Stokes' first problem for an Oldroyd-B fluid in a porous half space. (English summary) **2005i:76037**
Usha, R. *see* **Balakrishnan, Uma, 2005b:76059**
Vaidya, Ashwin Steady fall of bodies of arbitrary shape in a second-order fluid at zero Reynolds number. (English summary) **2005g:76024**
Vorotnikov, D. A. On the existence of weak stationary solutions of a boundary value problem in the Jeffreys model of the motion of a viscoelastic medium. (Russian) **2005k:35342**
Webster, M. F. (*with* Tamaddon-Jahromi, H. R.; Aboubacar, M.) Time-dependent algorithms for viscoelastic flow: finite element/volume schemes. (English summary) **2005h:76059**
— *see also* **Aboubacar, M. et al., 2005b:76089**
Zakaria, M. Magnetohydrodynamic viscoelastic boundary layer flow past a stretching plate and heat transfer. (English summary) **2005b:76143**
Zecca, Pietro *see* **Obukhovskiĭ, V. V. et al., 2005f:49008**
Zhang, Rong[6] (*with* Li, Xin Kai) Non-Newtonian effects on lubricant thin film flows. (English summary)
Zvyagin, Viktor (*with* Dmitrienko, V. T.) On weak solutions of a regularized model of a viscoelastic fluid. (Russian. Russian summary) **2005b:35233**
— *see also* **Obukhovskiĭ, V. V. et al., 2005f:49008**

76A15 Liquid crystals [see also 82D30]

Belaidi, Ahmed *see* **Ribotta, Roland et al., 2005e:76008**
Belmonte, Andrew *see* **Podgorski, T., 2005h:76008**
Denniston, Colin D. (*with* Marenduzzo, D.; Orlandini, E.; Yeomans, J. M.) Lattice Boltzmann algorithm for three-dimensional liquid-crystal hydrodynamics. (English summary) **2005b:76013**
Joets, Alain *see* **Ribotta, Roland et al., 2005e:76008**
Kralj, Samo *see* **Rosso, Riccardo et al., 2005j:76006**
Li, Tiejun (*with* Zhang, Ping Wen; Zhou, Xiang) Analysis of $1 + 1$ dimensional stochastic models of liquid crystal polymer flows. (English summary) **2005j:76005**
Marenduzzo, D. *see* **Denniston, Colin D. et al., 2005b:76013**
Mukherjee, Arup (*with* Mukherjee, Bagisa) Shear flow in nematic liquid crystals: Fréedericksz transition as a bifurcation. (English summary) **2005m:76015**
Mukherjee, Bagisa *see* **Mukherjee, Arup, 2005m:76015**
Orlandini, E. *see* **Denniston, Colin D. et al., 2005b:76013**
Podgorski, T. (*with* Belmonte, Andrew) Surface folding of viscoelastic fluids: finite elasticity membrane model. (English summary) **2005h:76008**
Ribotta, Roland (*with* Belaidi, Ahmed; Joets, Alain) Singularities, defects and chaos in organized fluids. (English summary) **2005e:76008**
Rosso, Riccardo (*with* Virga, Epifanio G.; Kralj, Samo) Local elastic stability for nematic liquid crystals. (English summary) **2005j:76006**
Virga, Epifanio G. *see* **Rosso, Riccardo et al., 2005j:76006**
Yeomans, J. M. *see* **Denniston, Colin D. et al., 2005b:76013**
Zhang, Ping Wen *see* **Li, Tiejun et al., 2005j:76005**
Zhou, Xiang *see* **Li, Tiejun et al., 2005j:76005**

Items with secondary classifications in 76A15

Aksenova, E. V. (*with* Romanov, V. P.; Valkov, A. Yu.) Calculation of correlation function of the director fluctuations in cholesteric liquid crystals by WKB method. (English summary) **2005g:82129**
Berlyand, Leonid (*with* Cioranescu, Doina; Golovaty, Dmitry) Homogenization of a Ginzburg-Landau functional. (English and French summaries) **2005h:49030**
— (*with* Cioranescu, Doina; Golovaty, Dmitry) Homogenization of a Ginzburg-Landau model for a nematic liquid crystal with inclusions. (English and French summaries) **2005k:35014**
Calderer, M. Carme *see* **Shen, Quan, 2005h:74057**
Cioranescu, Doina *see* **Berlyand, Leonid et al., 2005h:49030** *and* **2005k:35014**
Constantin, Peter (*with* Kevrekidis, Ioannis G.; Titi, Edriss S.) Remarks on a Smoluchowski equation. (English summary) **2005h:35142**
Daniel, Muthiah (*with* Gnanasekaran, K.) Director oscillation in a one-dimensional nematic liquid crystal. (English summary) **2005f:82132**
DeSimone, Antonio Coarse-grained models of materials with non-convex free-energy: two case studies. (English summary) **2005k:74065**
Gnanasekaran, K. *see* **Daniel, Muthiah, 2005f:82132**
Golovaty, Dmitry *see* **Berlyand, Leonid et al., 2005h:49030** *and* **2005k:35014**
Hong, Min-Chun Partial regularity of weak solutions of the liquid crystal equilibrium system. (English summary) **2005k:35127**
Ivashin, A. P. (*with* Kovalevskiĭ, M. Yu.; Logvinova, L. V.) Hamiltonian dynamics of biaxial nematics taking molecular shapes into account. (Russian. Russian summary) **2005h:82111**
Jiang, Huiqiang (*with* Lin, Fang Hua) A new type of free boundary problem with volume constraint. (English summary) **2005b:49074**
Kevrekidis, Ioannis G. *see* **Constantin, Peter et al., 2005h:35142**
Kovalevskiĭ, M. Yu. *see* **Ivashin, A. P. et al., 2005h:82111**
Lin, Fang Hua *see* **Jiang, Huiqiang, 2005b:49074**
Logvinova, L. V. *see* **Ivashin, A. P. et al., 2005h:82111**
Lubensky, T. C. *see* **Stenull, Olaf, 2005f:74011**
Luo, Chong (*with* Zhang, Hui[1]; Zhang, Ping Wen) The structure of equilibrium solutions of the one-dimensional Doi equation. (English summary) **2005g:82138**
Podio-Guidugli, Paolo On the choice of inertial interactions in microstructured continua. (Italian. English and Italian summaries) **2005f:74010**
Romanov, V. P. *see* **Aksenova, E. V. et al., 2005g:82129**
Saccomandi, Giuseppe *see* **Vitolo, Raffaele, 2005i:74006**
Shen, Quan (*with* Calderer, M. Carme) A relaxed model and its homogenization for nematic liquid crystals in composite materials. (English summary) **2005h:74057**
Stenull, Olaf (*with* Lubensky, T. C.) Dynamics of nematic elastomers. (English summary) **2005f:74011**
Titi, Edriss S. *see* **Constantin, Peter et al., 2005h:35142**
Valkov, A. Yu. *see* **Aksenova, E. V. et al., 2005g:82129**
Vitolo, Raffaele (*with* Saccomandi, Giuseppe) Null Lagrangians in a theory for nematic elastomers. (Russian. English and Russian summaries) **2005i:74006**
Zhang, Hui[1] *see* **Luo, Chong et al., 2005g:82138**
Zhang, Ping Wen *see* **Luo, Chong et al., 2005g:82138**

76A20 Thin fluid films

Abelman, S. *see* **Momoniat, Ebrahim et al., 2005h:76011**
Al-Bender, F. *see* **Gilio, M. et al., 2005m:76016** *and* **2005m:76017**
Amaouche, Mustapha (*with* Mehidi, Nadia; Amatousse, Nawel) An accurate modeling of thin film flows down an incline for inertia dominated regimes. (English summary) **2005f:76009**
Amatousse, Nawel *see* **Amaouche, Mustapha et al., 2005f:76009**
Argyriadi, K. (*with* Serifi, K.; Bontozoglou, V.) Nonlinear dynamics of inclined films under low-frequency forcing. (English summary) **2005b:76014**
Ben Amar, Martine *see* **Sultan, Eric et al., 2005i:76012**
van den Berg, Jan Bouwe (*with* Bowen, Mark; King, John Robert; El-Sheikh, M. M. A.) The self-similar solution for draining in the thin film equation. (English summary) **2005i:76008**
Bernoff, A. J. *see* **Witelski, Thomas P. et al., 2005e:76011**
Bertozzi, Andrea L. *see* **Witelski, Thomas P. et al., 2005e:76011**
Bestehorn, Michael *see* **Merkt, D. et al., 2005m:76018**
Bontozoglou, V. *see* **Argyriadi, K. et al., 2005b:76014**
Boudaoud, Arezki *see* **Sultan, Eric et al., 2005i:76012**
Bowen, Mark *see* **van den Berg, Jan Bouwe et al., 2005i:76008**
Chini, Gregory P. *see* **Jensen, Oliver E. et al., 2005h:76010**
Craster, Richard V. *see* **Edmonstone, B. D. et al., 2005i:76009**
Edmonstone, B. D. (*with* Matar, Omar K.; Craster, Richard V.) Flow of surfactant-laden thin films down an inclined plane. (English summary) **2005i:76009**
Eley, R. R. *see* **Schwartz, L. W. et al., 2005i:76010**
El-Sheikh, M. M. A. *see* **van den Berg, Jan Bouwe et al., 2005i:76008**
Evans, P. L. (*with* Schwartz, L. W.; Roy, R. V.) Steady and unsteady solutions for coating flow on a rotating horizontal cylinder: two-dimensional theoretical and numerical modeling. (English summary)
Flitton, J. C. (*with* King, John Robert) Surface-tension-driven dewetting of Newtonian and power-law fluids. (English summary) **2005h:76009**
Gilio, M. (*with* Al-Bender, F.; Kruth, J.-P.) The dynamics of a moving sheet of liquid. I. Derivation of the 2D equations of motion. (English summary) **2005m:76016**
— (*with* Al-Bender, F.; Kruth, J.-P.) The dynamics of a moving sheet of liquid. II. Experiments. (English summary) **2005m:76017**
Hinch, E. J. (*with* Kelmanson, M. A.; Metcalfe, Paul D.) Shock-like free-surface perturbations in low-surface-tension, viscous, thin-film flow exterior to a rotating cylinder. (English summary) **2005f:76010**
Hosoi, A. E. *see* **Stocker, Roman, 2005i:76011**
Indeitsev, Dmitry (*with* Mochalova, Yuliya A.) Localized waves in a thin film with growing islands. (English summary) (*see* **2005b:00020**)
Jensen, Oliver E. (*with* Chini, Gregory P.; King, John Robert) Thin-film flows near isolated humps and interior corners. (English summary) **2005h:76010**
Kalliadasis, Serafim *see* **Trevelyan, Philip M. J., 2005h:76012**
Kelmanson, M. A. *see* **Hinch, E. J. et al., 2005f:76010**
King, John Robert *see* **Flitton, J. C., 2005h:76009**; **Jensen, Oliver E. et al., 2005h:76010** *and* **van den Berg, Jan Bouwe et al., 2005i:76008**
Kruth, J.-P. *see* **Gilio, M. et al., 2005m:76016** *and* **2005m:76017**
Kumar, Satish[2] *see* **Matar, Omar K., 2005g:76004**
Lawrence, Chris J. *see* **Matar, Omar K. et al.**
Li, Xin Kai *see* **Zhang, Rong[6]**
Matar, Omar K. (*with* Kumar, Satish[2]) Rupture of a surfactant-covered thin liquid film on a flexible wall. (English summary) **2005g:76004**
— (*with* Sisoev, G. M.; Lawrence, Chris J.) Erratum: "Evolution scales for wave regimes in liquid film flow over a spinning disk" [Phys. Fluids **16** (2004), no. 5, 1532–1545; MR2059457].
— *see also* **Edmonstone, B. D. et al., 2005i:76009**
Mehidi, Nadia *see* **Amaouche, Mustapha et al., 2005f:76009**
Merkt, D. (*with* Pototsky, A.; Bestehorn, Michael; Thiele, Uwe) Long-wave theory of bounded two-layer films with a free liquid-liquid interface: short- and long-time evolution. (English summary) **2005m:76018**
Metcalfe, Paul D. *see* **Hinch, E. J. et al., 2005f:76010**
Mochalova, Yuliya A. *see* **Indeitsev, Dmitry, (2005b:00020)**
Momoniat, Ebrahim (*with* Myers, T. G.; Abelman, S.) New solutions for surface tension driven spreading of a thin film. (English summary) **2005h:76011**
Myers, T. G. *see* **Momoniat, Ebrahim et al., 2005h:76011**
Pototsky, A. *see* **Merkt, D. et al., 2005m:76018**
Princen, H. M. *see* **Schwartz, L. W. et al., 2005i:76010**
Pukhnachev, V. V. Capillary/gravity film flows on the surface of a rotating cylinder. (English and Russian summaries) **2005b:76015**
Roy, R. V. *see* **Schwartz, L. W. et al., 2005i:76010** *and* **Evans, P. L. et al.**
Schwartz, L. W. (*with* Roy, R. V.; Eley, R. R.; Princen, H. M.) Surfactant-driven motion and splitting of droplets on a substrate. (English summary) **2005i:76010**
— *see also* **Evans, P. L. et al.**
Serifi, K. *see* **Argyriadi, K. et al., 2005b:76014**
Shkadov, V. Ya. (*with* Sisoev, G. M.) Waves induced by instability in falling films of finite thickness. (English summary) **2005e:76009**
— (*with* Velarde, Manuel G.; Shkadova, V. P.) Falling films and the Marangoni effect. (English summary) **2005e:76010**

Shkadova, V. P. *see* **Shkadov, V. Ya. et al., 2005e:76010**
Sisoev, G. M. *see* **Shkadov, V. Ya., 2005e:76009** *and* **Matar, Omar K. et al.**
Stocker, Roman (*with* Hosoi, A. E.) Corner flow in free liquid films. (English summary) **2005i:76011**
Sultan, Eric (*with* Boudaoud, Arezki; Ben Amar, Martine) Diffusion-limited evaporation of thin polar liquid films. (English summary) **2005i:76012**
Thiele, Uwe *see* **Merkt, D. et al., 2005m:76018**
Trevelyan, Philip M. J. (*with* Kalliadasis, Serafim) Wave dynamics on a thin-liquid film falling down a heated wall. (English summary) **2005h:76012**
Velarde, Manuel G. *see* **Shkadov, V. Ya. et al., 2005e:76010**
Witelski, Thomas P. (*with* Bernoff, A. J.; Bertozzi, Andrea L.) Blowup and dissipation in a critical-case unstable thin film equation. (English summary) **2005e:76011**
Zhang, Rong[6] (*with* Li, Xin Kai) Non-Newtonian effects on lubricant thin film flows. (English summary)

Items with secondary classifications in 76A20

Acrivos, Andreas (*with* Jin, Bo[1]) Rimming flows within a rotating horizontal cylinder: asymptotic analysis of the thin-film lubrication equations and stability of their solutions. (English summary) **2005h:76024**
Agarwal, Ravi P. (*with* O'Regan, Donal) Infinite interval problems arising in the model of a slender dry patch in a liquid film draining under gravity down an inclined plane. (English summary) **2005b:34054**
Ansini, Lidia (*with* Giacomelli, Lorenzo) Doubly nonlinear thin-film equations in one space dimension. (English summary) **2005e:35106**
Balakrishnan, Uma (*with* Usha, R.) Interfacial phase change effects on the stability characteristics of thin viscoelastic liquid film down a vertical wall. (English summary) **2005b:76059**
Barrett, John W.[1] (*with* Garcke, Harald; Nürnberg, Robert) Finite element approximation of surfactant spreading on a thin film. (English summary) **2005a:65098**
— (*with* Nürnberg, Robert) Convergence of a finite-element approximation of surfactant spreading on a thin film in the presence of van der Waals forces. (English summary) **2005a:65099**
Batrouni, G. G. (*with* Ramstad, T.; Hansen, Alex) Free-energy landscape and the critical velocity of superfluid films. (English summary) **2005c:82099**
Bayada, Guy (*with* Benhaboucha, N.; Chambat, M.) Modeling of a thin film passing a thin porous medium. (English and French summaries) **2005b:76041**
— (*with* Martin, Sébastien; Vázquez Cendón, C.) Effets d'anisotropie par homogénéisation dans un problème à frontière libre. (English and French summaries) [Anisotropic effects by homogenization in a free boundary problem] **2005m:76057**
Benhaboucha, N. *see* **Bayada, Guy et al., 2005b:76041**
Benilov, E. S. (*with* O'Brien, Stephen B. G.) Inertial instability of a liquid film inside a rotating horizontal cylinder. (English summary) **2005m:76087**
Bloom, Frederick Estimating the probability of attachment by sliding in flotation modeling. (English summary)
Blyth, M. G. (*with* Pozrikidis, C.) Effect of inertia on the Marangoni instability of two-layer channel flow. II. Normal-mode analysis. (English summary) **2005h:76035**
Chambat, M. *see* **Bayada, Guy et al., 2005b:76041**
Chen, Cha'o-Kuang *see* **Lai, Hsin-Yi et al.**
Darhuber, Anton A. (*with* Troian, Sandra M.) Principles of microfluidic actuation by modulation of surface stresses. (English summary) (*see* **2005h:76002**)
Diez, Javier Alberto *see* **Kondic, Lou, 2005b:76060**
Gao, Hong Jun *see* **Liu, Chang Chun et al., 2005i:35037**
Garcke, Harald *see* **Barrett, John W.[1] et al., 2005a:65098**
Gaskell, P. H. *see* **Walkley, M. A. et al., 2005j:76063**
Giacomelli, Lorenzo *see* **Ansini, Lidia, 2005e:35106**
Gottlieb, O. (*with* Oron, Alexander) Stability and bifurcations of parametrically excited thin liquid films. (English summary) **2005i:76052**
Gromyko, G. F. (*with* Tabakova, S. S.; Popova, Liuba Ivanova) On the cooling of a free thin film at the presence of the van der Waals forces. (English and Lithuanian summaries)
— *see also* **Popova, Liuba Ivanova et al., 2005k:76088**
Grün, Günther Droplet spreading under weak slippage: the waiting time phenomenon. (English and French summaries) **2005c:35146**
— Droplet spreading under weak slippage—existence for the Cauchy problem. (English summary) **2005i:35109**
Hansen, Alex *see* **Batrouni, G. G. et al., 2005c:82099**
Hayes, Michael A. (*with* O'Brien, Stephen B. G.) The fluid profile during spin-coating over a small sinusoidal topography. (English summary) **2005f:76033**
Hegarty, Alan F. (*with* O'Brien, Stephen B. G.; Sikwila, Stephen) Numerical solution of a rimming flow problem using a moving mesh method. (English summary) **2005a:76058**
Heil, Matthias *see* **White, Joseph P., 2005k:74031**
Jimack, Peter K. *see* **Walkley, M. A. et al., 2005j:76063**
Jin, Bo[1] *see* **Acrivos, Andreas, 2005h:76024**
Kalliadasis, Serafim *see* **Trevelyan, Philip M. J., 2005c:76086** *and* **2005c:76087**
Kelmanson, M. A. *see* **Walkley, M. A. et al., 2005j:76063**
Knobloch, Edgar *see* **Thiele, Uwe, 2005g:76053**
Kondic, Lou (*with* Diez, Javier Alberto) Instabilities in the flow of thin films on heterogeneous surfaces. (English summary) **2005b:76060**
Lai, Hsin-Yi (*with* Sung, Hung-Ming; Chen, Cha'o-Kuang) Nonlinear stability characterization of thin Newtonian film flows traveling down on a vertical moving plate. (English summary)
LeFloch, Philippe G. (*with* Shearer, M.) Non-classical Riemann solvers with nucleation. (English summary) **2005j:35152**
Liu, Chang Chun (*with* Yin, Jing Xue; Gao, Hong Jun) A generalized thin film equation. (English summary) **2005i:35037**
Lu, Guoshen *see* **Zhang, Yongbin et al., 2005m:76058**
Luchini, Paolo Is a plane liquid curtain algebraically absolutely unstable? (English summary) **2005b:76061**
Martin, Sébastien *see* **Bayada, Guy et al., 2005m:76057**
Morris, S. J. S. Heat flow near the triple junction of an evaporating meniscus and a substrate. (English summary) **2005e:80005**
Nürnberg, Robert *see* **Barrett, John W.[1] et al., 2005a:65098** *and* **2005a:65099**
O'Brien, Stephen B. G. *see* **Hegarty, Alan F. et al., 2005a:76058**; **Hayes, Michael A., 2005f:76033** *and* **Benilov, E. S., 2005m:76087**
O'Regan, Donal *see* **Agarwal, Ravi P., 2005b:34054**
Oron, Alexander *see* **Gottlieb, O., 2005i:76052**
Papageorgiou, Demetrios T. (*with* Vanden-Broeck, Jean-Marc) Antisymmetric capillary waves in electrified fluid sheets. (English summary) **2005m:76191**
— (*with* Petropoulos, Peter G.) Generation of interfacial instabilities in charged electrified viscous liquid films. (English summary) **2005i:76054**
Petropoulos, Peter G. *see* **Papageorgiou, Demetrios T., 2005i:76054**
Popova, Liuba Ivanova (*with* Gromyko, G. F.; Tabakova, S. S.) Numerical solution of a nonlinear one-dimensional system of differential equations describing the motion of a free thin film. (Russian. Russian summary) **2005k:76088**
— *see also* **Gromyko, G. F. et al.**
Pozrikidis, C. Effect of inertia on the Marangoni instability of two-layer channel flow. I. Numerical simulations. (English summary) **2005h:76034**
— *see also* **Blyth, M. G., 2005h:76035**
Ramstad, T. *see* **Batrouni, G. G. et al., 2005c:82099**
Shearer, M. *see* **LeFloch, Philippe G., 2005j:35152**
Shishkov, A. E. *see* **Taranets, R. M., 2005d:35124**
Shkadov, V. Ya. *see* **Tushkanov, D. A.**
Shushenachev, V. Yu. *see* **Tsvelodub, O. Yu., 2005m:76071**
Sikwila, Stephen *see* **Hegarty, Alan F. et al., 2005a:76058**
Summers, J. L. *see* **Walkley, M. A. et al., 2005j:76063**
Sung, Hung-Ming *see* **Lai, Hsin-Yi et al.**
Tabakova, S. S. *see* **Popova, Liuba Ivanova et al., 2005k:76088** *and* **Gromyko, G. F. et al.**
Tang, Keping *see* **Zhang, Yongbin et al., 2005m:76058**
Taranets, R. M. (*with* Shishkov, A. E.) The effect of time delay of support propagation in equations of thin films. (Russian. English and Russian summaries) **2005d:35124**
Thiele, Uwe (*with* Knobloch, Edgar) Thin liquid films on a slightly inclined heated plate. (English summary) **2005g:76053**
Trevelyan, Philip M. J. (*with* Kalliadasis, Serafim) Dynamics of a reactive falling film at large Péclet numbers. I. Long-wave approximation. (English summary) **2005c:76086**
— (*with* Kalliadasis, Serafim) Dynamics of a reactive falling film at large Péclet numbers. II. Nonlinear waves far from criticality: integral-boundary-layer approximation. (English summary) **2005c:76087**
Troian, Sandra M. *see* **Darhuber, Anton A., (2005h:76002)**
Tsvelodub, O. Yu. (*with* Shushenachev, V. Yu.) Wave regimes on a nonlinearly viscous fluid film running down a vertical plane. (Russian. Russian summary) **2005m:76071**
Tushkanov, D. A. (*with* Shkadov, V. Ya.) Nonlinear waves in two-layer films. (Russian. Russian summary)
Usha, R. *see* **Balakrishnan, Uma, 2005b:76059**
Vanden-Broeck, Jean-Marc *see* **Papageorgiou, Demetrios T., 2005m:76191**
Vázquez Cendón, C. *see* **Bayada, Guy et al., 2005m:76057**
Walkley, M. A. (*with* Gaskell, P. H.; Jimack, Peter K.; Kelmanson, M. A.; Summers, J. L.) Finite element simulation of three-dimensional free-surface flow problems with dynamic contact lines. (English summary) **2005j:76063**
White, Joseph P. (*with* Heil, Matthias) Three-dimensional instabilities of liquid-lined elastic tubes: a thin-film fluid-structure interaction model. (English summary) **2005k:74031**
Wieland, Sandra ★ Modellierung und mathematische Analyse kontaminierter dünner Flüssigkeitsfilme. (German) [Modelling and mathematical analysis of contaminated thin liquid films] **2005b:76042**
Xu, Meng[1] (*with* Zhou, Shu Lin[1]) Existence and uniqueness of weak solutions for a generalized thin film equation. (English summary) **2005h:35184**
Yin, Jing Xue *see* **Liu, Chang Chun et al., 2005i:35037**
Zhang, Yongbin (*with* Tang, Keping; Lu, Guoshen) Model of elastohydrodynamic lubrication with molecularly thin lubricating films. I. Development of analysis. (English summary) **2005m:76058**
Zhou, Shu Lin[1] *see* **Xu, Meng[1], 2005h:35184**

76A25 Superfluids (classical aspects)

Gouin, Henri (*with* Ruggeri, Tommaso) Hamiltonian principle in the binary mixtures of Euler fluids with applications to the second sound phenomena. (English and Italian summaries) **2005b:76016**
Ruggeri, Tommaso *see* **Gouin, Henri, 2005b:76016**

76A99 None of the above, but in this section

Eu, Byung Chan Generalized hydrodynamics in the transient regime and irreversible thermodynamics. (English summary) **2005c:76014**
Godunov, Sergeĭ Konstantinovich A new version of the thermodynamically consistent model of Maxwell viscosity. (Russian. Russian summary) **2005g:76005**
Gov, N. (*with* Zilman, A. G.; Safran, S.) Hydrodynamics of confined membranes. (English summary) **2005j:76007**
Safran, S. *see* **Gov, N. et al., 2005j:76007**
Zhang, Hui[1] (*with* Zhang, Ping Wen) A theoretical and numerical study for the rod-like model of a polymeric fluid. (English summary) **2005a:76009**
Zhang, Ping Wen *see* **Zhang, Hui[1], 2005a:76009**
Zilman, A. G. *see* **Gov, N. et al., 2005j:76007**

Items with secondary classifications in 76A99

Anderson, Michael Lindsay *see* **Chow, Shue-Sum et al., 2005i:65184**
Arina, Renzo Numerical simulation of near-critical fluids. (English summary) **2005g:76090**
Baleanu, Dumitru About metafluid dynamics. (English summary)
Bonzani, I. (*with* Mussone, L.) Modeling the driver's behavior on second-order macroscopic models of vehicular traffic flow. (English summary) **2005h:90011**
Capriz, Gianfranco (*with* Mullenger, George) Dynamics of granular fluids. (English summary) **2005g:76125**

Carey, Graham F. *see* **Chow, Shue-Sum et al., 2005i:65184**
Choquard, Philippe (*with* Wagner, Joël) On a class of implicit solutions of the continuity and Euler's equations for 1D systems with long range interactions. (English summary) **2005k:82102**
Chow, Shue-Sum (*with* Carey, Graham F.; Anderson, Michael Lindsay) Finite element approximations of a glaciology problem. (English summary) **2005i:65184**
Godunov, Sergeĭ Konstantinovich (*with* Romenskii, Evgenii I.) ★ Elements of continuum mechanics and conservation laws. **2005e:74004**
Junk, Michael *see* **Venkiteswaran, G., 2005h:82105**
Kainz, Alexander *see* **Synka, Josef et al.**
Maringer, Robert *see* **Synka, Josef et al.**
Mujaković, Nermina One-dimensional flow of a compressible viscous micropolar fluid: stabilization of the solution. (English summary) **2005k:76110**
Mullenger, George *see* **Capriz, Gianfranco, 2005g:76125**
Mussone, L. *see* **Bonzani, I., 2005h:90011**
Obereder, Andreas *see* **Synka, Josef et al.**
Ottino, Julio M. (*with* Wiggins, Stephen) Introduction mixing in microfluidics. (English summary)
Powell, Robert Louis *see* **Stickel, Jonathan J., (2005h:76002)**
Rajagopal, Kumbakonam (*with* Srinivasa, A. R.) On the thermomechanics of materials that have multiple natural configurations. I. Viscoelasticity and classical plasticity. (English summary) **2005c:74004**
Romenskii, Evgenii I. *see* **Godunov, Sergeĭ Konstantinovich, 2005e:74004**
(Rozhkovskaya, Tamara) *see* **Godunov, Sergeĭ Konstantinovich, 2005e:74004**
Srinivasa, A. R. *see* **Rajagopal, Kumbakonam, 2005c:74004**
Stickel, Jonathan J. (*with* Powell, Robert Louis) Fluid mechanics and rheology of dense suspensions. (English summary) (*see* **2005h:76002**)
Synka, Josef (*with* Kainz, Alexander; Maringer, Robert; Obereder, Andreas) Numerical analysis of a new Eulerian-Lagrangian finite element method applied to steady-state hot rolling processes. (English summary)
Venkiteswaran, G. (*with* Junk, Michael) A QMC approach for high dimensional Fokker-Planck equations modelling polymeric liquids. (English summary) **2005h:82105**
Wagner, Joël *see* **Choquard, Philippe, 2005k:82102**
Wiggins, Stephen *see* **Ottino, Julio M.**
Zohdi, T. I. Charge-induced clustering in multifield particulate flows. (English summary) **2005h:76081**

76Bxx Incompressible inviscid fluids

76B03 Existence, uniqueness, and regularity theory [see also 35Q35]

Ambrose, David M. Well-posedness of vortex sheets with surface tension. (English summary) **2005g:76006**
Bec, Jérémie *see* **Frisch, Uriel et al., 2005e:76012** *and* **Matsumoto, Takeshi[2]**
Brachet, M.-E. *see* **Cichowlas, C., 2005k:76012**
Chemin, Jean-Yves Two-dimensional Euler system and the vortex patches problem. **2005m:76019**
Cichowlas, C. (*with* Brachet, M.-E.) Evolution of complex singularities in Kida-Pelz and Taylor-Green inviscid flows. (English summary) **2005k:76012**
Córdoba, Antonio (*with* Córdoba, Diego) A maximum principle applied to quasi-geostrophic equations. (English summary) **2005f:76011**
Córdoba, Diego *see* **Córdoba, Antonio, 2005f:76011**
Frisch, Uriel (*with* Matsumoto, Takeshi[2]; Bec, Jérémie) Singularities of Euler flow? Not out of the blue! **2005e:76012**
— *see also* **Matsumoto, Takeshi[1] et al., 2005m:76022**
Kelliher, James P. The inviscid limit for two-dimensional incompressible fluids with unbounded vorticity. (English summary) **2005g:76007**
Kuznetsov, Evgeniĭ Aleksandrovich[1] Towards a sufficient criterion for collapse in 3D Euler equations. (English summary) **2005a:76010**
Kuznetsov, N. G. On the motion of a floating body supported by an air cushion. (English summary) (*see* **2005b:00020**)
Lannes, David Sur le caractère bien posé des équations d'Euler avec surface libre. [Well-posedness of the Euler equations with a free surface] **2005m:76020**
— Well-posedness of the water-waves equations. **2005m:76021**
Matsumoto, Takeshi[1] (*with* Bec, Jérémie; Frisch, Uriel) The analytic structure of 2D Euler flow at short times. (English summary) **2005m:76022**
Matsumoto, Takeshi[2] *see* **Frisch, Uriel et al., 2005e:76012** *and* **Pauls, Walter, 2005i:76013**
Nishiyama, Takahiro Construction of solutions to the two-dimensional stationary Euler equations by the pseudo-advection method. (English summary) **2005b:76017**
— Construction of three-dimensional stationary Euler flows from pseudo-advected vorticity equations. (English summary) **2005g:76008**
Pauls, Walter (*with* Matsumoto, Takeshi[2]) Lagrangian singularities of steady two-dimensional flow. (English summary) **2005i:76013**
Shnirelman, A. Weak solutions of incompressible Euler equations. (English summary) **2005e:76013**
Taniuchi, Yasushi Uniformly local L^p estimate for 2-D vorticity equation and its application to Euler equations with initial vorticity in bmo. (English summary) **2005g:76009**
Trotsenko, V. A. Solution of the boundary value problems in the dynamics of a fluid in horizontal cylindrical cavities with partitions. (Russian. English and Ukrainian summaries) **2005c:76015**
Vega, Luis Kink solutions of the binormal flow. **2005j:76008**
Wu, Jiahong Global solutions of the 2D dissipative quasi-geostrophic equation in Besov spaces. (English summary) **2005i:76014**

Items with secondary classifications in 76B03

Abedini, Yoosofali *see* **Eshraghi, Homayoon, 2005b:76025**
Abidi, H. (*with* Danchin, Raphaël) Optimal bounds for the inviscid limit of Navier-Stokes equations. (English summary) **2005c:35227**
Beirão da Veiga, Hugo Developable surfaces as generators of the "isobaric solutions" to the Euler equations. (English summary) **2005j:35175**
Bona, Jerry L. (*with* Kalisch, Henrik) Singularity formation in the generalized Benjamin-Ono equation. (English summary) **2005j:35192**
— (*with* Chen, Min[6]; Saut, J. C.) Boussinesq equations and other systems for small-amplitude long waves in nonlinear dispersive media. II. The nonlinear theory. (English summary) **2005k:35350**
Burton, Geoffrey R. (*with* Preciso, Luca) Existence and isoperimetric characterization of steady spherical vortex rings in a uniform flow in $\mathbb{R}^N$. (English summary) **2005d:35060**
Chae, Dongho On the Euler equations in the critical Triebel-Lizorkin spaces. (English summary) **2005b:35226**
— Local existence and blow-up criterion for the Euler equations in the Besov spaces. (English summary) **2005d:35207**
— Remarks on the blow-up criterion of the three-dimensional Euler equations. (English summary) **2005m:35232**
Chen, Min[6] (*with* Iooss, Gérard) Standing waves for a two-way model system for water waves. (English summary) **2005j:76011**
— *see also* **Bona, Jerry L. et al., 2005k:35350**
Chow, Shue-Sum *see* **Miklyukov, Vladimir et al., 2005k:35338**
Danchin, Raphaël *see* **Abidi, H., 2005c:35227**
Dinaburg, E. I. (*with* Sinaĭ, Ya. G.) On some approximation of the 3D Euler system. (English summary) **2005j:35165**
Ding, Shi Jin *see* **Ma, Shixiang**
Dutrifoy, Alexandre (*with* Hmidi, Taoufik) The incompressible limit of solutions of the two-dimensional compressible Euler system with degenerating initial data. (English summary) **2005c:35240**
Ehrnström, Mats Uniqueness of steady symmetric deep-water waves with vorticity. (English summary) **2005i:76016**
Eshraghi, Homayoon (*with* Abedini, Yoosofali) The generalized Leray transformation for the finite time singular vortices in fluids. (English summary) **2005b:76025**
Flori, Fabien (*with* Orenga, Pierre; Peybernes, Mathieu) Sur un problème de shallow water bicouche avec conditions aux limites de Dirichlet. (English and French summaries) [On a bi-layer shallow water problem with Dirichlet boundary conditions] **2005m:35133**
Friedlander, Susan J. (*with* Pavlović, Nataša) Blowup in a three-dimensional vector model for the Euler equations. (English summary) **2005c:35241**
— *see also* **Handbook: Mathematical fluid dynamics, Vol. III, 2005f:76002**
Gay-Balmaz, François (*with* Ratiu, Tudor S.) The Lie-Poisson structure of the LAE-α equation. (English summary) **2005m:37186**
Guha, Partha Moyal deformation of 2D Euler equation and discretization. (English summary) **2005a:37109**
Gulak, Yuriy (*with* Pelz, Richard Bruce) High-symmetry Kida flow: time series analysis and resummation. (English summary) **2005k:76023**
Gutiérrez, Susana (*with* Vega, Luis) Self-similar solutions of the localized induction approximation: singularity formation. (English summary) **2005m:35236**
Hakobyan, A. (*with* Shahgholian, Henrik) A uniqueness result for an overdetermined problem in non-linear parabolic potential theory. (English summary) **2005i:35284**
He, Cheng *see* **Jiu, Quan Sen, 2005g:35243**
He, Juan Xiong (*with* Yang, Xiu Qun; Yu, Zhi Hao) Well-posedness of the Cauchy problem for barotropic equations with orographic forcing. I. The inviscid case. (Chinese. English and Chinese summaries) **2005f:76104**
Hmidi, Taoufik (*with* Keraani, Sahbi) Limite non visqueuse pour le système de Navier-Stokes dans un espace critique. (English and French summaries) [Inviscid limit for the Navier-Stokes system in a critical space] **2005b:35221**
— Régularité höldérienne des poches de tourbillon visqueuses. (English and French summaries) [Hölderian regularity of viscous vortex patches] **2005h:35282**
— *see also* **Dutrifoy, Alexandre, 2005c:35240**
Hong, Lan (*with* Hunter, John K.) Singularity formation and instability in the unsteady inviscid and viscous Prandtl equations. (English summary) **2005k:76035**
Hunter, John K. *see* **Hong, Lan, 2005k:76035**
Iooss, Gérard *see* **Chen, Min[6], 2005j:76011**
Jiu, Quan Sen (*with* Xin, Zhou Ping) Viscous approximations and decay rate of maximal vorticity function for 3-D axisymmetric Euler equations. (English summary) **2005g:76026**
— (*with* He, Cheng) Remarks on the regularity to 3-D ideal magnetohydrodynamic equations. (English summary) **2005g:35243**
Kacprzyk, Piotr Local existence of solutions of the free boundary problem for the equations of a magnetohydrodynamic incompressible fluid. (English summary) **2005h:76087**
Kalisch, Henrik A uniqueness result for periodic traveling waves in water of finite depth. (English summary) **2005j:76012**
— *see also* **Bona, Jerry L., 2005j:35192**
Katz, Nets Hawk (*with* Pavlović, Nataša) Finite time blow-up for a dyadic model of the Euler equations. (English summary) **2005h:35284**
Kenig, Carlos E. On the local and global well-posedness theory for the KP-I equation. (English and French summaries) **2005j:35196**
Keraani, Sahbi *see* **Hmidi, Taoufik, 2005b:35221**
Kim, Namkwon Eigenvalues associated with the vortex patch in 2-D Euler equations. (English summary) **2005h:35285**
Kobayashi, Kenta (*with* Okamoto, Hisashi) Uniqueness issues on permanent progressive water-waves. (English summary) **2005h:76016**
Kuznetsov, N. G. *see* **Motygin, Oleg V., (2005b:00020)**
Lai, Shao Yong (*with* Wu, Yong Hong[1]; Xu, Yang[1]) The global solution of an initial boundary value problem for the damped Boussinesq equation. (English summary) **2005a:35244**
Lu, Guo Zhen (*with* Ou, Biao) A Poincaré inequality on R^n and its application to potential fluid flows in space. (English summary) **2005i:26046**
Ma, Shixiang (*with* Ding, Shi Jin) On the initial boundary value problem for a shallow water equation. (English summary)

Miklyukov, Vladimir (*with* Chow, Shue-Sum; Solov′ev, V. P.) Stagnation zones of ideal flows in long and narrow bands. (English summary) **2005k:35338**
Molinet, Luc (*with* Ribaud, Francis) Well-posedness results for the generalized Benjamin-Ono equation with arbitrary large initial data. **2005j:35200**
— (*with* Ribaud, Francis) Well-posedness results for the generalized Benjamin-Ono equation with small initial data. (English and French summaries) **2005a:35252**
— On well-posedness results for Camassa-Holm equation on the line: a survey. (English summary) **2005k:35360**
Motygin, Oleg V. (*with* Kuznetsov, N. G.) Eigenvalues of the Steklov problem in an infinite cylinder. (English summary) (*see* **2005b:00020**)
Muñoz-Ruiz, María Luz On a nonhomogeneous bi-layer shallow-water problem: an existence theorem. (English summary) **2005e:76021**
— On a non-homogeneous bi-layer shallow-water problem: smoothness and uniqueness results. (English summary) **2005h:76027**
Noble, Pascal Existence et stabilité de roll-waves pour les équations de Saint Venant. (English and French summaries) [Existence and stability of roll-waves for the Saint-Venant equations] **2005a:35227**
Okamoto, Hisashi *see* **Kobayashi, Kenta, 2005h:76016**
Orenga, Pierre *see* **Flori, Fabien et al., 2005m:35133**
Ou, Biao *see* **Lu, Guo Zhen, 2005i:26046**
Pagani, Carlo D. (*with* Pierotti, Dario) The subcritical motion of a semisubmerged body: solvability of the free boundary problem. (English summary) **2005f:35335**
Pak, Hee Chul (*with* Park, Young Ja) Existence of solution for the Euler equations in a critical Besov space $B^1_{\infty,1}(\mathbb{R}^n)$. (English summary) **2005g:35247**
— Motion of vortex filaments in 3-manifolds. (English summary) **2005j:53073**
Park, Young Ja *see* **Pak, Hee Chul, 2005g:35247**
Pavlović, Nataša *see* **Friedlander, Susan J., 2005c:35241** *and* **Katz, Nets Hawk, 2005h:35284**
Pelz, Richard Bruce *see* **Gulak, Yuriy, 2005k:76023**
Peng, Yue-Jun (*with* Wang, Ya-Guang) Quasineutral limit and boundary layers in Euler-Poisson system. (English summary) **2005f:76118**
— (*with* Wang, Ya-Guang) Convergence of compressible Euler-Poisson equations to incompressible type Euler equations. (English summary) **2005m:76149**
Peybernes, Mathieu *see* **Flori, Fabien et al., 2005m:35133**
Pierotti, Dario *see* **Pagani, Carlo D., 2005f:35335**
Plotnikov, P. I. (*with* Toland, J. F.) Convexity of Stokes waves of extreme form. (English summary) **2005f:76017**
Preciso, Luca *see* **Burton, Geoffrey R., 2005d:35060**
Ragoub, Lakhdar Principe du maximum et fonctions auxiliaires pour des problèmes elliptiques. (French summary) [Maximum principle and auxiliary functions for elliptic problems] **2005f:35120**
Ratiu, Tudor S. *see* **Gay-Balmaz, François, 2005m:37186**
Rautmann, Reimund Quasi-Lipschitz conditions in Euler flows. (English summary) **2005m:35229**
Ribaud, Francis *see* **Molinet, Luc, 2005a:35252** *and* **2005j:35200**
Robert, Raoul Statistical hydrodynamics (Onsager revisited). **2005a:76004**
(Rodrigues, José-Francisco) *see* **Trends in partial differential equations of mathematical physics, 2005j:00021**
Sato, Shuichi[1] A note on weighted estimates for certain classes of pseudo-differential operators. (English summary) **2005k:35446**
Saut, J. C. *see* **Bona, Jerry L. et al., 2005k:35350**
(Serëgin, G. A.) *see* **Trends in partial differential equations of mathematical physics, 2005j:00021**
(Serre, Denis) *see* **Handbook: Mathematical fluid dynamics, Vol. III, 2005f:76002**
Shahgholian, Henrik *see* **Hakobyan, A., 2005i:35284**
Sinaĭ, Ya. G. *see* **Dinaburg, E. I., 2005j:35165**
Solov′ev, V. P. *see* **Miklyukov, Vladimir et al., 2005k:35338**
Takayama, Masahiro Initial boundary value problem for the equations of ideal magneto-hydrodynamics in a half space. **2005e:35190**
Tao, Terence C. Global well-posedness of the Benjamin-Ono equation in $H^1(\mathbf{R})$. (English summary) **2005f:35273**
Tatby, Christian Existence of the attractor for the shallow-water equations. (English summary) **2005a:37154**
Temam, Roger (*with* Ziane, Mohammed) Some mathematical problems in geophysical fluid dynamics. (English summary) **2005h:35275**
Toland, J. F. *see* **Plotnikov, P. I., 2005f:76017**
Trakhinin, Yu. L. On the existence of incompressible current-vortex sheets: study of a linearized free boundary value problem. (English summary) **2005k:76140**
(Urbano, José Miguel) *see* **Trends in partial differential equations of mathematical physics, 2005j:00021**
Vega, Luis *see* **Gutiérrez, Susana, 2005m:35236**
Wahlén, Erik On steady gravity waves with vorticity. **2005i:76022**
— Uniqueness for autonomous planar differential equations and the Lagrangian formulation of water flows with vorticity. (English summary) **2005i:34004**
Wang, Ya-Guang *see* **Peng, Yue-Jun, 2005f:76118** *and* **2005m:76149**
Wu, Yong Hong[1] *see* **Lai, Shao Yong et al., 2005a:35244**
Xin, Zhou Ping *see* **Jiu, Quan Sen, 2005g:76026**
Xu, Yang[1] *see* **Lai, Shao Yong et al., 2005a:35244**
Yang, Xiu Qun *see* **He, Juan Xiong et al., 2005f:76104**
Yu, Yong Exact boundary controllability of unsteady flows in open canals. (Chinese. English and Chinese summaries) **2005g:93018**
Yu, Zhi Hao *see* **He, Juan Xiong et al., 2005f:76104**
Zhou, Yong[4] Wave breaking for a periodic shallow water equation. (English summary) **2005c:76021**
Ziane, Mohammed *see* **Temam, Roger, 2005h:35275**
Zolotenko, G. F. On solutions of general nonlinear initial boundary-value problem of inviscid fluid's dynamics in moving vessel. (English summary) **2005h:76013**

Items listed otherwise than by author

Handbook:
Mathematical fluid dynamics, Vol. III ★ Handbook of mathematical fluid dynamics. Vol. III. **2005f:76002**
Handbook: (*cont'd.*)
Óbidos ★ Trends in partial differential equations of mathematical physics. **2005j:00021**
Trends in partial differential equations of mathematical physics ★ Trends in partial differential equations of mathematical physics. **2005j:00021**

76B07 Free-surface potential flows

Chen, XinJian A comparison of hydrostatic and nonhydrostatic pressure components in Seiche oscillations. (English summary)
Cooker, Mark J. Free-surface motion of a thin sheet of inviscid fluid. (English summary) **2005c:76016**
Evans, Thomas E. *see* **Shen, Colin Y., 2005e:76015**
Filip, Diana Andrada ★ Numerical methods in the dynamics of the solid-fluid system. **2005e:76014**
Fraenkel, L. E. (*with* Keady, G.) On the entry of a wedge into water: the thin wedge and an all-purpose boundary-layer equation. (English summary) **2005d:76003**
Hassenpflug, W. C. (*with* Thiart, G. D.) Convolution number evaluation of wave-making velocity. (English summary) **2005g:76010**
Howison, S. D. (*with* Ockendon, J. R.; Oliver, J. M.) Oblique slamming, planning and skimming. (English summary) **2005b:76018**
Iafrati, A. (*with* Korobkin, A. A.) Starting flow generated by the impulsive start of a floating wedge. (English summary) **2005m:76023**
Keady, G. *see* **Fraenkel, L. E., 2005d:76003**
Korobkin, A. A. *see* **Iafrati, A., 2005m:76023**
Lizárraga Celaya, Carlos *see* **Shingareva, Inna, 2005j:76009**
Lushnikov, Pavel M. (*with* Zakharov, Vladimir E.) On optimal canonical variables in the theory of ideal fluid with free surface. (English summary) **2005m:76024**
Ockendon, J. R. *see* **Howison, S. D. et al., 2005b:76018**
Oliver, J. M. *see* **Howison, S. D. et al., 2005b:76018**
Shen, Colin Y. (*with* Evans, Thomas E.) A free-surface hydrodynamic model for density-stratified flow in the weakly to strongly non-hydrostatic regime. (English summary) **2005e:76015**
Shingareva, Inna (*with* Lizárraga Celaya, Carlos) Critical curves in fluid structures. (Spanish. Spanish summary) **2005j:76009**
Thiart, G. D. *see* **Hassenpflug, W. C., 2005g:76010**
Zakharov, Vladimir E. *see* **Lushnikov, Pavel M., 2005m:76024**
Zolotenko, G. F. On solutions of general nonlinear initial boundary-value problem of inviscid fluid's dynamics in moving vessel. (English summary) **2005h:76013**

Items with secondary classifications in 76B07

Ata, Riadh (*with* Soulaïmani, Azzeddine) A stabilized SPH method for inviscid shallow water flows. (English summary) **2005g:76093**
Battistin, D. (*with* Iafrati, A.) A numerical model for the jet flow generated by water impact. (English summary) **2005a:76011**
Bouchon, F. (*with* Clain, S.; Touzani, R.) Numerical solution of the free boundary Bernoulli problem using a level set formulation. (English summary) **2005m:76132**
Brufau, P. (*with* García-Navarro, P.; Vázquez-Cendón, María Elena) Zero mass error using unsteady wetting-drying conditions in shallow flows over dry irregular topography. (English summary) **2005b:86005**
Clain, S. *see* **Bouchon, F. et al., 2005m:76132**
Cointe, R. (*with* Fontaine, E.; Molin, B.; Scolan, Y. M.) On energy arguments applied to the hydrodynamic impact force. (English summary) **2005a:76031**
Copeland, G. J. M. *see* **Gejadze, I. Y., 2005i:86005**
Fontaine, E. *see* **Cointe, R. et al., 2005a:76031**
Frank, A. M. ★ Дискретные модели несжимаемой жидкости. (Russian) [Discrete models of an incompressible fluid] **2005m:76134**
García-Navarro, P. *see* **Brufau, P. et al., 2005b:86005**
Gejadze, I. Y. (*with* Copeland, G. J. M.) Adjoint sensitivity analysis for fluid flow with free surface. (English summary) **2005i:86005**
Iafrati, A. *see* **Battistin, D., 2005a:76011**
Karpova, S. A. *see* **Loginov, B. V., 2005h:76017**
Kidambi, R. *see* **Shankar, P. N., 2005m:76035**
Lannes, David Sur le caractère bien posé des équations d'Euler avec surface libre. [Well-posedness of the Euler equations with a free surface] **2005m:76020**
Loginov, B. V. (*with* Karpova, S. A.) Computation of periodic solutions in the problem of capillary-gravity waves in a three-dimensional layer of a floating fluid. (Russian. English and Russian summaries) **2005h:76017**
Molin, B. *see* **Cointe, R. et al., 2005a:76031**
Mousavizadegan, S. H. (*with* Rahman, Matiur) Numerical method in wave-body interactions. (English summary) **2005g:76081**
Rahman, Matiur *see* **Mousavizadegan, S. H., 2005g:76081**
Scolan, Y. M. *see* **Cointe, R. et al., 2005a:76031**
Shankar, P. N. (*with* Kidambi, R.) The contact angle in inviscid fluid mechanics. (English summary) **2005m:76035**
Soulaïmani, Azzeddine *see* **Ata, Riadh, 2005g:76093**
Stelling, Guus S. *see* **Zijlema, Marcel**
Touzani, R. *see* **Bouchon, F. et al., 2005m:76132**
Vanden-Broeck, Jean-Marc Nonlinear capillary free-surface flows. (English summary) **2005i:76023**
Vázquez-Cendón, María Elena *see* **Brufau, P. et al., 2005b:86005**
Wu, Chin-Hsien *see* **Yuan, Hengliang**
Yuan, Hengliang (*with* Wu, Chin-Hsien) An implicit three-dimensional fully non-hydrostatic model for free-surface flows. (English summary)
Zijlema, Marcel (*with* Stelling, Guus S.) Further experiences with computing non-hydostatic free-surface flows involving water waves. (English summary)

76B10 Jets and cavities, cavitation, free-streamline theory, water-entry problems, airfoil and hydrofoil theory, sloshing

Battistin, D. (*with* Iafrati, A.) A numerical model for the jet flow generated by water impact. (English summary) **2005a:76011**
Blake, J. R. *see* **Pearson, A. et al., 2005a:76016**
Bucchignani, Edoardo A numerical study of non-linear dynamics in a tank for aerospace applications. (English summary)
Chadwick, Edmund A slender-wing theory in potential flow. (English summary) **2005i:76015**
Cho, Jin-Rae (*with* Lee, Hong-Woo) Non-linear finite element analysis of large amplitude sloshing flow in two-dimensional tank. (English summary)
De Chant, Lawrence J. An analytical solution for unconfined, unsteady, inviscid jets; with applications to penetration problem debris cloud formation. (English summary)
DeLillo, Thomas K. (*with* Elcrat, Alan R.; Hu, Chenglie) Computation of the Helmholtz-Kirchhoff and reentrant jet flows using Fourier series. (English summary) **2005h:76014**
Elcrat, Alan R. *see* **DeLillo, Thomas K. et al., 2005h:76014**
Garabedian, P. R. (*with* Meurer, M. E.) Cavitational flow and magnetohydrodynamics. (English summary) **2005a:76012**
Hu, Chenglie *see* **DeLillo, Thomas K. et al., 2005h:76014**
Iafrati, A. *see* **Battistin, D., 2005a:76011**
Judge, C. (*with* Troesch, Armin W.; Perlin, Marc) Initial water impact of a wedge at vertical and oblique angles. (English summary) **2005a:76013**
Khoo, B. C. *see* **Liu, TieGang et al.**
Kidambi, R. (*with* Shankar, P. N.) The effects of the contact angle on sloshing in containers. (English summary) **2005b:76019**
Korobkin, A. A. (*with* Ohkusu, M.) Impact of two circular plates one of which is floating on a thin layer of liquid. (English summary)
Kozlov, Vladimir Arkad′evich (*with* Kuznetsov, N. G.; Motygin, Oleg V.) On the two-dimensional sloshing problem. (English summary) **2005d:76004**
Kozma, Lidia Elena ★ Fluid plane movements with applications in mining ventilation. **2005h:76015**
Kuznetsov, N. G. *see* **Kozlov, Vladimir Arkad′evich et al., 2005d:76004**
Lee, Hong-Woo *see* **Cho, Jin-Rae**
Liu, TieGang (*with* Khoo, B. C.; Xie, WenFeng) Isentropic one-fluid modelling of unsteady cavitating flow. (English summary)
Mardanov, R. F. An inverse boundary value problem for an Ekranoplan airfoil with a blow-out reactive jet. (Russian. Russian summary) **2005a:76014**
Mel′nichenko, I. P. (*with* Plaksa, S. A.) Application of analytic functions to problems of the flow of an ideal fluid around axisymmetric bodies. (Russian. English summary) **2005a:76015**
Meurer, M. E. *see* **Garabedian, P. R., 2005a:76012**
Motygin, Oleg V. *see* **Kozlov, Vladimir Arkad′evich et al., 2005d:76004**
Ohkusu, M. *see* **Korobkin, A. A.**
Otto, S. R. *see* **Pearson, A. et al., 2005a:76016**
Ozsoysal, Reyhan A mathematical note: the dipole potential for the swaying and rolling cylinder. (English summary)
Pearson, A. (*with* Blake, J. R.; Otto, S. R.) Jets in bubbles. (English summary) **2005a:76016**
Perlin, Marc *see* **Judge, C. et al., 2005a:76013**
Petrov, A. G. Asymptotic law of expansion of an axisymmetric free jet. (Russian)
Plaksa, S. A. *see* **Mel′nichenko, I. P., 2005a:76015**
Shankar, P. N. *see* **Kidambi, R., 2005b:76019**
Troesch, Armin W. *see* **Judge, C. et al., 2005a:76013**
Xie, WenFeng *see* **Liu, TieGang et al.**

Items listed otherwise than by author

Biography:
Kozma, Lidia Elena *see* **Kozma, Lidia Elena, 2005h:76015**

Items with secondary classifications in 76B10

Abzalilov, D. F. (*with* Volkov, P. A.; Il′inskiĭ, N. B.) Solution of the inverse boundary value problem of aerohydrodynamics for a two-element airfoil. (Russian. Russian summary) **2005c:76058**
Bessi Fourati, R. *see* **Bonnans, Joseph Frédéric et al., 2005c:74020**
Bonnans, Joseph Frédéric (*with* Bessi Fourati, R.; Smaoui, H.) The obstacle problem for water tanks. (English and French summaries) **2005c:74020**
Bucchignani, Edoardo (*with* Stella, Fulvio; Paglia, Fabio) A partition method for the solution of a coupled liquid-structure interaction problem. (English summary)
Cole, Julian D. (*with* Malmuth, Norman D.) Wave drag due to lift for transonic airplanes. (English summary) **2005h:76051**
Dimitroglo, M. G. (*with* Lifanov, Ivan K.; Setukha, A. V.) On numerical modelling of a three-dimensional flow past a wing with external flow suction and on the effect of flow suction on trailing vortices. (English summary) **2005b:76079**
Dowell, Earl H. *see* **Liu, Liping[1]**
Grecu, Luminiţa A solution of the boundary integral equation of the theory of the infinite span airfoil in subsonic flow with linear boundary elements. (English summary) **2005c:76059**
Il′inskiĭ, N. B. *see* **Abzalilov, D. F. et al., 2005c:76058**
Jones, Marvin A. The separated flow of an inviscid fluid around a moving flat plate. (English summary) **2005i:76026**
Karlikov, V. P. (*with* Tolokonnikov, S. L.) Jet-cavitational streamline of the "atmosphere" of a pair of vortices. (Russian. Russian summary) **2005f:76024**
Komornik, Vilmos (*with* Loreti, Paola; Mazzini, Leonardo) Null controllability of the free surface of a liquid in a container. (English summary) **2005e:93016**
Kozlov, Vladimir Arkad′evich (*with* Kuznetsov, N. G.) The ice-fishing problem: the fundamental sloshing frequency versus geometry of holes. (English summary) **2005b:35204**
Kuznetsov, N. G. *see* **Kozlov, Vladimir Arkad′evich, 2005b:35204** *and* **Motygin, Oleg V., (2005b:00020)**
Lifanov, Ivan K. *see* **Dimitroglo, M. G. et al., 2005b:76079**
Liu, Liping[1] (*with* Dowell, Earl H.) The secondary bifurcation of an aeroelastic airfoil motion: effect of high harmonics. (English summary)
Loreti, Paola *see* **Komornik, Vilmos et al., 2005e:93016**
Lukovskiĭ, I. A. (*with* Zolotenko, G. F.; Pil′kevich, A. M.) Comparative analysis of two variational models in the nonlinear theory of relative fluid motion. (Russian. English, Russian and Ukrainian summaries) **2005i:76088**
Malmuth, Norman D. *see* **Cole, Julian D., 2005h:76051**
Mazzini, Leonardo *see* **Komornik, Vilmos et al., 2005e:93016**
Motygin, Oleg V. (*with* Kuznetsov, N. G.) Eigenvalues of the Steklov problem in an infinite cylinder. (English summary) (*see* **2005b:00020**)
Ohayon, Roger Reduced models for fluid-structure interaction problems. (English summary) **2005b:74042**
Pagani, Carlo D. (*with* Pierotti, Dario) The subcritical motion of a semisubmerged body: solvability of the free boundary problem. (English summary) **2005f:35335**
Paglia, Fabio *see* **Bucchignani, Edoardo et al.**
Pierotti, Dario *see* **Pagani, Carlo D., 2005f:35335**
Pil′kevich, A. M. *see* **Lukovskiĭ, I. A. et al., 2005i:76088**
Setukha, A. V. *see* **Dimitroglo, M. G. et al., 2005b:76079**
Smaoui, H. *see* **Bonnans, Joseph Frédéric et al., 2005c:74020**
Stella, Fulvio *see* **Bucchignani, Edoardo et al.**
Tolokonnikov, S. L. *see* **Karlikov, V. P., 2005f:76024**
Volkov, P. A. *see* **Abzalilov, D. F. et al., 2005c:76058**
Vorus, William S. A compliant-hull concept for planning craft wave-impact shock reduction. (English summary) **2005a:76035**
Zolotenko, G. F. *see* **Lukovskiĭ, I. A. et al., 2005i:76088**

76B15 Water waves, gravity waves; dispersion and scattering, nonlinear interaction [see also 35Q30, 35Q53]

Agalarova, Nigar D. Waves on a fluid surface due to a cylinder motion. (English summary)
Asavanant, J. *see* **Maleewong, M. et al., (2005b:76003)**
Baskar, S. (*with* Prasad, Phoolan) Kinematical conservation laws applied to study geometrical shapes of a solitary wave. (English summary) **2005a:76017**
Bhatta, Dambaru D. Wave diffraction by circular and elliptical cylinders in finite depth water. (English summary)
Body, G. L. Inclined wavemaker in linear water wave theory. (English summary) **2005e:76016**
Bona, Jerry L. (*with* Colin, Thierry; Lannes, David) Long wave approximations for water waves. (English summary) (*see* **2005b:00020**)
Bondar, V. V. (*with* Yakovlev, V. V.) Longshore energy currents for arbitrary topography of the bottom at regular rough sea. (English summary) **2005k:76013**
Bonet Chaple, Ruperto P. Local absorbing boundary conditions for the Berkhoff equation with general boundary shape. (Spanish. English and Spanish summaries)
Boniforti, M. A. *see* **La Rocca, Michele et al., 2005e:76018** *and* **Sciortino, G. et al., 2005f:76018**
Bora, Swaroop Nandan Hydrodynamic coefficients for water-wave diffraction by spherical structures. (English summary)
Borzi, C. H. (*with* Kraenkel, Roberto A.; Manna, M. A.; Pereira, Antonio) Nonlinear dynamics of short traveling capillary-gravity waves. (English summary) **2005m:76025**
Bouchut, François (*with* Westdickenberg, Michael) Gravity driven shallow water models for arbitrary topography. (English summary) **2005m:76026**
Bridges, Thomas J. (*with* Fan, E. G.) Solitary waves, periodic waves, and a stability analysis for Zufiria's higher-order Boussinesq model for shallow water waves. (English summary) **2005a:76018**
Buffoni, Boris Existence by minimisation of solitary water waves on an ocean of infinite depth. (English and French summaries) **2005j:76010**
— Conditional energetic stability of gravity solitary waves in the presence of weak surface tension. (English summary) **2005k:76014**
Bulgakov, Sergey N. *see* **Muzylev, S. V. et al., 2005k:76018**
Chapko, Roman An integral equation method for the numerical analysis of gravity waves in a channel with free boundary. (English summary) **2005g:76011**
Chen, Min[6] (*with* Iooss, Gérard) Standing waves for a two-way model system for water waves. (English summary) **2005j:76011**
Chesnokov, Aleksandr Aleksandrovich *see* **Teshukov, Vladimir et al., 2005i:76021**
Choi, Wooyoung *see* **Li, Yi A. et al., 2005d:76005**
Chowdhury, Rupanwita Gayen (*with* Mandal, B. N.) Motion due to ring source in ice-covered water. (English summary) **2005c:76017**
— *see also* **Mandal, B. N., 2005i:76017**
Chung, Hyuck (*with* Linton, C. M.) Reflection and transmission of waves across a gap between two semi-infinite elastic plates on water. (English summary) **2005k:76015**
— *see also* **Linton, C. M., (2005b:00020)**
Clamond, Didier (*with* Fructus, Dorian; Grue, John; Kristiansen, Øyvind) An efficient model for three-dimensional surface wave simulations. II. Generation and absorption. (English summary) **2005k:76017**
— *see also* **Fructus, Dorian et al., 2005k:76016**
Colin, Thierry *see* **Bona, Jerry L. et al., (2005b:00020)**
Daripa, Prabir (*with* Dash, Ranjan K.) On a class of Boussinesq equations for shallow water waves. (English summary) (*see* **2005g:65009**)
Dash, Ranjan K. *see* **Daripa, Prabir, (2005g:65009)**
De Rouck, Julien *see* **Li, Tingqiu et al., 2005c:76019**
Dias, Frédéric (*with* Vanden-Broeck, Jean-Marc) Two-layer hydraulic falls over an obstacle. (English summary) **2005f:76012**
Duan, Wen Shan *see* **Shi, Yu Ren et al.**
Dubinina, V. A. (*with* Kurkin, Audrey; Pelinovskiĭ, E. N.; Poloukhina, O. E.) Weakly nonlinear periodic Stokes edge waves. (Russian) **2005m:76027**
Dubovik, A. N. One-mode approximation for periodic waves on deep water. (Russian) **2005a:76019**
Dullin, Holger R. (*with* Gottwald, Georg A.; Holm, Darryl D.) On asymptotically equivalent shallow water wave equations. (English summary) **2005e:76017**

Duran-Matute, Matias *see* **Muzylev, S. V. et al., 2005k:76018**
Ehrnström, Mats Uniqueness of steady symmetric deep-water waves with vorticity. (English summary) **2005i:76016**
Èl′, G. A. (*with* Grimshaw, Roger H. J.; Kamchatnov, A. M.) Wave breaking and the generation of undular bores in an integrable shallow water system. (English summary) **2005m:76028**
Engelbrecht, Jüri *see* **Soomere, Tarmo, 2005f:76019**
Faltas, M. S. *see* **Sherief, Hany H. et al., 2005b:76023**
Fan, E. G. *see* **Bridges, Thomas J., 2005a:76018**
Fructus, Dorian (*with* Clamond, Didier; Grue, John; Kristiansen, Øyvind) An efficient model for three-dimensional surface wave simulations. I. Free space problems. (English summary) **2005k:76016**
— *see also* **Clamond, Didier et al., 2005k:76017**
Givoli, Dan *see* **van Joolen, Vince J. et al., 2005g:76012**
Gottwald, Georg A. *see* **Dullin, Holger R. et al., 2005e:76017**
Grimshaw, Roger H. J. *see* **Èl′, G. A. et al., 2005m:76028** *and* **Maleewong, M. et al., (2005b:76003)**
Groves, M. D. (*with* Sandstede, Björn) A plethora of three-dimensional periodic travelling gravity-capillary water waves with multipulse transverse profiles. (English summary) **2005f:76013**
Grue, John *see* **Fructus, Dorian et al., 2005k:76016** *and* **Clamond, Didier et al., 2005k:76017**
Hazard, Christophe (*with* Loret, François) Generalized eigenfunction expansions; an application to linear water waves. (*see* **2005b:00020**)
Holm, Darryl D. *see* **Dullin, Holger R. et al., 2005e:76017**
Hsu, Tai-Wen (*with* Ou, Shan-Hwei; Yang, Bin-Da; Tseng, I-Fan) On the damping coefficients of sponge layer in Boussinesq equations. (English summary)
Hu, Z. Z. *see* **Wu, Guo Xiong, 2005c:76022**
Huang, Ming You *see* **Yin, Li**
Hyman, James M. *see* **Li, Yi A. et al., 2005d:76005**
Il′ichev, A. T. (*with* Savin, A. S.) On the process of establishment of surface waves in plane flow. (Russian. Russian summary) **2005f:76014**
Iooss, Gérard *see* **Chen, Min[6], 2005j:76011**
Jacobson, Tivon E. (*with* Tabak, Esteban G.) Standing shocks in a rotating channel. (English summary) **2005f:76015**
Johnson, Robin S. The classical problem of water waves: a reservoir of integrable and nearly-integrable equations. (English summary) **2005c:76018**
van Joolen, Vince J. (*with* Neta, Beny; Givoli, Dan) High-order boundary conditions for linearized shallow water equations with stratification, dispersion and advection. (English summary) **2005g:76012**
Kalisch, Henrik A uniqueness result for periodic traveling waves in water of finite depth. (English summary) **2005j:76012**
Kamchatnov, A. M. *see* **Èl′, G. A. et al., 2005m:76028**
Karpova, S. A. *see* **Loginov, B. V., 2005h:76017**
Kirchgässner, K. Dispersive dynamics of waves in Euler systems. (English summary) **2005a:76020**
Kobayashi, Kenta (*with* Okamoto, Hisashi) Uniqueness issues on permanent progressive water-waves. (English summary) **2005h:76016**
— Numerical verification of the global uniqueness of a positive solution for Nekrasov's equation. (English summary) **2005b:76020**
Konoplëva, I. V. (*with* Loginov, B. V.) Oblique-angled periodicity lattice in capillary-gravity waves problems. (English summary) (*see* **2005b:00020**)
Kraenkel, Roberto A. *see* **Borzi, C. H. et al., 2005m:76025**
Kristiansen, Øyvind *see* **Fructus, Dorian et al., 2005k:76016** *and* **Clamond, Didier et al., 2005k:76017**
Kung, Ch'i Hsiung (*with* Liu, C.-M.) The linear and nonlinear properties of the high-order Boussinesq equations for wave propagation. (English summary) (*see* **2005b:76003**)
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Lannes, David *see* **Bona, Jerry L. et al., (2005b:00020)**
La Rocca, Michele (*with* Sciortino, G.; Boniforti, M. A.) Gravity-capillary waves in layered fluid. (English and Ukrainian summaries) **2005e:76018**
— *see also* **Sciortino, G. et al., 2005f:76018**
Li, Chen[3] (*with* Wu, Xiong Hua) A new linearized method for Benjamin-Bona-Mahony equations. (English summary) **2005e:76019**
Li, Tingqiu (*with* Troch, Peter; De Rouck, Julien) Wave overtopping over a sea dike. (English summary) **2005c:76019**
Li, Yi A. (*with* Hyman, James M.; Choi, Wooyoung) A numerical study of the exact evolution equations for surface waves in water of finite depth. (English summary) **2005d:76005**
Linton, C. M. (*with* Chung, Hyuck) Wave reflection by a sheet of sea ice. (*see* **2005b:00020**)
— *see also* **Chung, Hyuck, 2005k:76015**
Liu, C.-M. *see* **Kung, Ch'i Hsiung, (2005b:76003)**
Liu, Philip L.-F. *see* **Lynett, Patrick, 2005e:76020**
Loginov, B. V. (*with* Karpova, S. A.) Computation of periodic solutions in the problem of capillary-gravity waves in a three-dimensional layer of a floating fluid. (Russian. English and Russian summaries) **2005h:76017**
— *see also* **Konoplëva, I. V., (2005b:00020)**
Loret, François *see* **Hazard, Christophe, (2005b:00020)**
Lü, Ke Pu *see* **Shi, Yu Ren et al.**
Lynett, Patrick (*with* Liu, Philip L.-F.) A two-layer approach to wave modelling. (English summary) **2005e:76020**
Maas, Leo R. M. *see* **Manders, Astrid M. M., 2005a:76021**
Maleewong, M. (*with* Asavanant, J.; Grimshaw, Roger H. J.) Numerical calculation of steady gravity-capillary waves forced by a surface pressure distribution. (English summary) (*see* **2005b:76003**)
Mancebo, Francisco J. (*with* Vega, José M.) Standing wave description of nearly conservative, parametrically driven waves in extended systems. (English summary) **2005f:76016**
Mandal, B. N. (*with* Chowdhury, Rupanwita Gayen) Ring source potential in water with an ice-cover. (English summary) **2005i:76017**
— *see also* **Chowdhury, Rupanwita Gayen, 2005c:76017**
Manders, Astrid M. M. (*with* Maas, Leo R. M.) On the three-dimensional structure of the inertial wave field in a rectangular basin with one sloping boundary. (English summary) **2005a:76021**
Manna, M. A. *see* **Borzi, C. H. et al., 2005m:76025**
McIver, M. *see* **McIver, P., (2005b:00020)**
McIver, P. (*with* McIver, M.) The forced motion of structures that support trapped or near-trapped water waves. (*see* **2005b:00020**)
Mead, J. L. The shallow water equations in Lagrangian coordinates. (English summary) **2005d:76006**
Milewski, Paul A. The forced Korteweg-de Vries equation as a model for waves generated by topography. (English summary) **2005h:76018**
— Three-dimensional localized solitary gravity-capillary waves. (English summary) **2005j:76013**
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Monzon, C. O. *see* **Sekerzh-Zenkovich, S. et al., 2005k:76019**
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Muñoz Grajales, Juan Carlos (*with* Nachbin, André) Dispersive wave attenuation due to orographic forcing. (English summary) **2005d:76007**
— (*with* Nachbin, André) Stiff microscale forcing and solitary wave refocusing. (English summary) **2005m:76029**
Muñoz-Ruiz, María Luz On a nonhomogeneous bi-layer shallow-water problem: an existence theorem. (English summary) **2005e:76021**
Muzylev, S. V. (*with* Bulgakov, Sergey N.; Duran-Matute, Matias) Edge capillary-gravity waves on a sloping beach. (English summary) **2005k:76018**
Nachbin, André *see* **Muñoz Grajales, Juan Carlos, 2005d:76007** *and* **2005m:76029**
Neta, Beny *see* **van Joolen, Vince J. et al., 2005g:76012**
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Olmos Gomez, M. A. *see* **Sekerzh-Zenkovich, S. et al., 2005k:76019**
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Pelinovskiĭ, E. N. *see* **Dubinina, V. A. et al., 2005m:76027**
Pelloni, Beatrice The propagation of nonlinear water waves in a bounded domain. (English summary) (*see* **2005b:00020**)
Peregudin, S. I. Long waves in a homogeneous fluid over a deformable bottom. (Russian. English and Russian summaries) **2005m:76030**
Pereira, Antonio *see* **Borzi, C. H. et al., 2005m:76025**
Plotnikov, P. I. (*with* Toland, J. F.) Convexity of Stokes waves of extreme form. (English summary) **2005f:76017**
Polnikov, V. G. Relative contributions of nonlinearity and refraction to the evolution of the spectrum of shallow-water waves. (Russian. Russian summary)
Poloukhina, O. E. *see* **Dubinina, V. A. et al., 2005m:76027**
Prasad, Phoolan *see* **Baskar, S., 2005a:76017**
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Savin, A. S. *see* **Il′ichev, A. T., 2005f:76014**
Schneider, Guido[1] (*with* Wayne, C. Eugene) On the validity of 2D-surface water wave models. (English summary) **2005a:76022**
— (*with* Wayne, C. Eugene) Estimates for the three-wave interaction of surface water waves. (English summary) **2005b:76022**
Schober, C. M. Nonlinear focusing and rogue waves in deep water. (English summary) (*see* **2005b:00020**)
Sciortino, G. (*with* La Rocca, Michele; Boniforti, M. A.) Hamiltonian formulation for the motion of a two fluid system with free surface. (English and Ukrainian summaries) **2005f:76018**
— *see also* **La Rocca, Michele et al., 2005e:76018**
Sekerzh-Zenkovich, S. (*with* Volkov, B. I.; Monzon, C. O.; Olmos Gomez, M. A.) Asymptotic solutions of the problem of steep capillary-gravitational Faraday waves on the interface between fluids. (English summary) **2005k:76019**
Selezov, I. T. Wave processes in fluids and elastic media. (English summary) **2005c:76020**
— (*with* Mironchuk, M. V.) Generation of surface gravity waves by two moving submerged sources. (English summary) **2005m:76031**
Shemer, Lev *see* **Stiassnie, Michael, 2005i:76019**
Sherief, Hany H. (*with* Faltas, M. S.; Saad, E. I.) Axisymmetric gravity waves in two-layered fluids with the upper fluid having a free surface. (English summary) **2005b:76023**
Shi, Wei Ping[2] *see* **Zu, Ying Qing**
Shi, Yu Ren (*with* Lü, Ke Pu; Duan, Wen Shan) Exact solutions to the approximate equations with variable coefficients of long water wave. (Chinese. English and Chinese summaries)
Soomere, Tarmo (*with* Engelbrecht, Jüri) Extreme elevations and slopes of interacting solitons in shallow water. (English summary) **2005f:76019**
Stelling, Guus S. *see* **Zijlema, Marcel**
Stiassnie, Michael (*with* Shemer, Lev) On the interaction of four water-waves. (English summary) **2005i:76019**
Sturova, I. V. Surface waves generated by external periodic pressure in a fluid with an uneven bottom. (Russian. Russian summary) **2005i:76020**
Tabak, Esteban G. *see* **Jacobson, Tivon E., 2005f:76015**
Teshukov, Vladimir (*with* Russo, Giovanni; Chesnokov, Aleksandr Aleksandrovich) Analytical and numerical solutions of the shallow water equations for 2D rotational flows. (English summary) **2005i:76021**

Toland, J. F. *see* **Plotnikov, P. I., 2005f:76017**
Troch, Peter *see* **Li, Tingqiu et al., 2005c:76019**
Tseng, I-Fan *see* **Hsu, Tai-Wen et al.**
Ungarish, Marius Dam-break release of a gravity current in a stratified ambient. (English summary) **2005m:76032**
Ursell, F. The waves due to a submerged sphere moving in a canal. (English summary) **2005g:76014**
Vanden-Broeck, Jean-Marc *see* **Dias, Frédéric, 2005f:76012**
Vega, José M. Interaction of viscous mean flows and surface waves at low viscosity. (*see* **2005a:00022**)
— (*with* Rüdiger, Sten; Viñals, Jorge) Phenomenological model of weakly damped Faraday waves and the associated mean flow. (English summary) **2005j:76015**
— *see also* **Mancebo, Francisco J., 2005f:76016**
Viñals, Jorge *see* **Vega, José M. et al., 2005j:76015**
Volkov, B. I. *see* **Sekerzh-Zenkovich, S. et al., 2005k:76019**
Wahlén, Erik On steady gravity waves with vorticity. **2005i:76022**
Wang, Qian Xi Interaction of two circular cylinders in inviscid fluid. (English summary) **2005f:76020**
Wayne, C. Eugene *see* **Schneider, Guido[1], 2005a:76022** *and* **2005b:76022**
Westdickenberg, Michael *see* **Bouchut, François, 2005m:76026**
Wu, Guo Xiong (*with* Hu, Z. Z.) Simulation of nonlinear interactions between waves and floating bodies through a finite-element-based numerical tank. (English summary) **2005e:76022**
Wu, Xiong Hua *see* **Li, Chen[3], 2005e:76019**
Yakovlev, V. V. *see* **Bondar, V. V., 2005k:76013**
Yang, Bin-Da *see* **Hsu, Tai-Wen et al.**
Yin, Li (*with* Huang, Ming You) On steady states and its capturing schemes for shallow-water equations with source terms.
Zhou, Yong[4] Wave breaking for a periodic shallow water equation. (English summary) **2005c:76021**
Zijlema, Marcel (*with* Stelling, Guus S.) Further experiences with computing non-hydostatic free-surface flows involving water waves. (English summary)
Zolotenko, G. F. Computer simulation of nonlinear sloshing of a liquid in a tank on the basis of Hamilton-type equations. (Russian. English, Russian and Ukrainian summaries) **2005f:76021**
Zu, Ying Qing (*with* Shi, Wei Ping[2]) A discrete-velocity model for dam break waves. (Chinese. English and Chinese summaries)

Items with secondary classifications in 76B15

Abbasov, I. B. Investigation and modeling of the refraction of nonlinear surface waves in a gulf. (Russian. Russian summary) **2005b:86002**
Ablowitz, Mark J. (*with* Schober, C. M.) Chaotic dynamics in nonlinear waves: computational and physical. (*see* **2005h:65004**)
Agnon, Yehuda *see* **Bingham, Harry B., 2005h:76060**
Agoshkov, V. I. Inverse problems of the mathematical theory of tides: boundary-function problem. (English summary) **2005j:86017**
Al-Khaled, Kamel (*with* Allan, Fathi) Construction of solutions for the shallow water equations by the decomposition method. (English summary) **2005g:65153**
Allan, Fathi *see* **Al-Khaled, Kamel, 2005g:65153**
Ambrose, David M. Well-posedness of vortex sheets with surface tension. (English summary) **2005g:76006**
Andrianov, Nikolai Performance of numerical methods on the non-unique solution to the Riemann problem for the shallow water equations. (English summary) **2005i:76079**
Aslan, Zafer *see* **Rasulov, Mahir et al., 2005g:76087**
Audusse, Emmanuel (*with* Bouchut, François; Bristeau, Marie-Odile; Klein, Rupert; Perthame, Benoît) A fast and stable well-balanced scheme with hydrostatic reconstruction for shallow water flows. (English summary) **2005f:76069**
— (*with* Bristeau, Marie-Odile) A well-balanced positivity preserving "second-order" scheme for shallow water flows on unstructured meshes. (English summary) **2005k:76082**
Avilez-Valente, P. (*with* Seabra-Santos, F. J.) A Petrov-Galerkin finite element scheme for the regularized long wave equation. (English summary) **2005k:76071**
Bao, Yuan Lin (*with* Cheng, Bing[1]; Chen, Xiu Rong; Zhou, Xiao Yang) Application of the KFVS finite volume method in two-dimensional dam breaking. (Chinese. English and Chinese summaries)
— *see also* **Cheng, Bing[1] et al.** *and* **Chen, Xiu Rong et al.**
Baxevani, Anastassia ★ Modelling sea surface dynamics using crossing distributions. **2005b:86004**
Belcher, Stephen E. *see* **Hunt, J. C. R. et al., 2005a:86005**
Belolipetskiĭ, A. A. (*with* Ter-Krikorov, A. M.) Asymptotic solutions of long wave type for a class of boundary value problems in mathematical physics. (Russian) **2005m:35083**
Bergdahl, Lars *see* **Eskilsson, Claes et al., (2005b:00020)**
Bettencourt, M. T. *see* **Sajjadi, S. G., 2005a:86009**
Bingham, Harry B. (*with* Agnon, Yehuda) A Fourier-Boussinesq method for nonlinear water waves. (English summary) **2005h:76060**
Bogachev, K. Yu. (*with* Kobelkov, G. M.) Numerical solution of a tidal wave problem. (*see* **2005b:76005**)
Bona, Jerry L. (*with* Chen, Hongqiu) Local and global well-posedness results for generalized BBM-type equations. (English summary) **2005h:35302**
— (*with* Chen, Min[6]; Saut, J. C.) Boussinesq equations and other systems for small-amplitude long waves in nonlinear dispersive media. II. The nonlinear theory. (English summary) **2005k:35350**
Bonet, Javier *see* **Rodriguez-Paz, Miguel, 2005k:76106**
Bonnefoy, Félicien (*with* Le Touzé, David; Ferrant, Pierre) A nonlinear spectral model for gravity waves generation and propagation in a bounded domain. (English summary) (*see* **2005b:00020**)
Bouchut, François *see* **Audusse, Emmanuel et al., 2005f:76069**
Boyd, John Philip Ostrovsky and Hunter's generic wave equation for weakly dispersive waves: matched asymptotic and pseudospectral study of the paraboloidal travelling waves (corner and near-corner waves). (English summary) **2005m:35251**
Bristeau, Marie-Odile *see* **Audusse, Emmanuel et al., 2005f:76069** *and* **2005k:76082**
Buffoni, Boris Existence and conditional energetic stability of capillary-gravity solitary water waves by minimisation. (English summary) **2005f:35008**
Bunya, Shintaro (*with* Westerink, Joannes J.; Yoshimura, Shinobu) Discontinuous boundary implementation for the shallow water equations. (English summary)
Camassa, Roberto (*with* Huang, Jingfang; Lee, Long) On a completely integrable numerical scheme for a nonlinear shallow-water wave equation. (English summary) **2005h:37152**
Campbell, L. J. Wave-mean-flow interactions in a forced Rossby wave packet critical layer. (English summary) **2005a:76160**
Carey, Graham F. *see* **Le Roux, Daniel Y., 2005k:76078**
Castro-Díaz, Manuel Jesús (*with* García-Rodríguez, J. A.; González Vida, José M.; Parés, Carlos) Numerical solution of two-layer shallow water equations using finite volume schemes. (Spanish. Spanish summary) **2005i:86004**
Chacón-Rebollo, Tomás (*with* Domínguez Delgado, Antonio; Fernández Nieto, Enrique D.) Numerical schemes for 2D shallow water equations with variable depth and friction effects. (English summary) (*see* **2005b:00020**)
Chen, Hongqiu *see* **Bona, Jerry L., 2005h:35302**
Chen, Li Qun *see* **Zheng, Chun Long et al.**
Chen, Min[6] *see* **Bona, Jerry L. et al., 2005k:35350**
Chen, Xiu Rong (*with* Cheng, Bing[1]; Bao, Yuan Lin; Zhou, Xiao Yang) A normal-form KFVS method. (Chinese. English and Chinese summaries)
— *see also* **Cheng, Bing[1] et al.** *and* **Bao, Yuan Lin et al.**
Chen, Yong[3] *see* **Wang, Qi et al.**
Cheng, Bing[1] (*with* Zhou, Xiao Yang; Chen, Xiu Rong; Bao, Yuan Lin) Lattice Boltzmann simulation of one-dimensional shallow water equations. (Chinese. English and Chinese summaries)
— *see also* **Bao, Yuan Lin et al.** *and* **Chen, Xiu Rong et al.**
Cheverda, V. A. *see* **Voronina, T. A. et al., (2005b:00020)**
Choi, Yeontaek (*with* Lvov, Yuri V.; Nazarenko, S. V.) Joint statistics of amplitudes and phases in wave turbulence. (English summary) **2005i:76067**
Chubarov, L. B. *see* **Fedotova, Z. I., (2005i:65006)** *and* **Stywrin, A. V. et al., (2005i:65006)**
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Clark, H. R. *see* **Límaco, J. et al., 2005g:35258**
Colliander, James (*with* Kenig, Carlos E.; Staffilani, G.) Local well-posedness for dispersion-generalized Benjamin-Ono equations. (English summary) **2005a:35240**
Constantin, Adrian (*with* Escher, Joachim) Foreword [Wave motion].
Cotter, Colin John (*with* Frank, Jason; Reich, Sebastian) Hamiltonian particle-mesh method for two-layer shallow-water equations subject to the rigid-lid approximation. (English summary) **2005a:76120**
Craik, Alex D. D. G. G. Stokes and his precursors on water wave theory. (English summary) **2005b:76001**
— The origins of water wave theory. (English summary) **2005a:01012**
— George Gabriel Stokes on water wave theory. (English summary) **2005i:76001**
Črnjarić-Žic, Nelida (*with* Vuković, Senka; Sopta, Luka) Balanced finite volume WENO and central WENO schemes for the shallow water and the open-channel flow equations. (English summary) **2005d:76028**
— (*with* Vuković, Senka; Sopta, Luka) Balanced central NT schemes for the shallow water equations. (English summary) **2005m:65164**
— *see also* **Sopta, Luka et al., 2005k:86002**
Crossley, A. J. (*with* Wright, N. G.) Time accurate local time stepping for the unsteady shallow water equations. (English summary)
Dağ, İdris (*with* Saka, Bülent; Irk, Dursun) Application of cubic B-splines for numerical solution of the RLW equation. (English summary) **2005e:65153**
De Bouard, A. (*with* Debussche, Arnaud; Tsutsumi, Yoshio) Periodic solutions of the Korteweg-de Vries equation driven by white noise. (English summary) **2005k:60194**
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Dubinina, V. A. (*with* Kurkin, Audrey; Poloukhina, O. E.) Nonlinear dynamics of edge waves over a linearly sloping bottom. (Russian. Russian summary) **2005k:86006**
Eames, I. *see* **Hunt, J. C. R. et al., 2005a:86005**
Egorov, V. A. Testing of difference schemes for shallow water equations. (English summary) (*see* **2005c:65004**)
Elhefnawy, Abdel Raouf F. (*with* Zakaria, K.; Sirwah, M. A.) Bifurcations of magnetized surface waves between two immiscible fluids inside a vertical cylindrical container. (English summary) **2005h:76037**
Enright, Wayne H. *see* **Hamdi, S. et al., 2005a:35232** *and* **(2005g:65009)**
Escher, Joachim *see* **Constantin, Adrian**
Eskilsson, Claes (*with* Sherwin, Spencer J.; Bergdahl, Lars) Shallow water wave modelling using a high-order discontinuous Galerkin method. (English summary) (*see* **2005b:00020**)
Fang, Jian-Ping *see* **Zheng, Chun Long et al.**
Fedotova, Z. I. (*with* Chubarov, L. B.) Numerical simulation of long-wave dynamics in the coastal zone. (English summary) (*see* **2005i:65006**)
Fernández Nieto, Enrique D. *see* **Chacón-Rebollo, Tomás et al., (2005b:00020)**
Ferrant, Pierre *see* **Bonnefoy, Félicien et al., (2005b:00020)**
Ferrari, Stefania Convergence analysis of a space-time approximation to a two-dimensional system of shallow water equations. (English summary) **2005f:65115**
Flori, Fabien (*with* Orenga, Pierre; Peybernes, Mathieu) Sur un problème de shallow water bicouche avec conditions aux limites de Dirichlet. (English and French summaries) [On a bi-layer shallow water problem with Dirichlet boundary conditions] **2005m:35133**
Fochesato, C. (*with* Grilli, S. T.; Guyenne, P.) Note on non-orthogonality of local curvilinear co-ordinates in a three-dimensional boundary element method. (English

summary) **2005k:76085**

Fouque, Jean-Pierre (*with* Garnier, Josselin; Nachbin, André) Shock structure due to stochastic forcing and the time reversal of nonlinear waves. (English summary) **2005e:35158**

Frank, Jason *see* **Cotter, Colin John et al., 2005a:76120**

Fu, Min (*with* Tian, Li Xin) Peaked soliton solutions of shallow water wave equations on nonlinear strength. (Chinese. English and Chinese summaries)

Galletta, Veronica (*with* Vittori, Giovanna) Nonlinear effects on edge wave development. (English summary) **2005e:76064**

García-Rodríguez, J. A. *see* **Castro-Díaz, Manuel Jesús et al., 2005i:86004**

Garnier, Josselin *see* **Fouque, Jean-Pierre et al., 2005e:35158**

Girault, Vivette (*with* Scott, Larkin Ridgway) Stability of dispersive model equations for fluid flow. (*see* **2005h:65004**)

Glazman, Roman E. (*with* Golubev, Yury N.) Validation of the theoretical spectrum of baroclinic inertia-gravity waves. (English summary) **2005b:86007**

Golubev, Yury N. *see* **Glazman, Roman E., 2005b:86007**

Gomi, Patrick *see* **Sergent, Philippe et al., (2005b:00020)**

González Vida, José M. *see* **Castro-Díaz, Manuel Jesús et al., 2005i:86004**

Gorshkov, K. A. (*with* Dolina, I. S.; Soustova, I. A.; Troitskaya, Yu. I.) Transformation of short waves in a field of nonuniform flows on an ocean surface. The effect of wind increment modulation. (Russian. English and Russian summaries)

Gottlieb, J. J. *see* **Hamdi, S. et al., 2005a:35232** *and* **(2005g:65009)**

Grilli, S. T. *see* **Fochesato, C. et al., 2005k:76085**

Guinot, Vincent High resolution Godunov-type schemes with small stencils. (English summary) **2005a:65084**

— An approximate two-dimensional Riemann solver for hyperbolic systems of conservation laws. (English summary) **2005m:65168**

Guo, Daniel X. (*with* Drake, John B.) A global semi-Lagrangian spectral model of the shallow water equations with variable resolution. (English summary) **2005m:76126**

Guo, Peng (*with* Zhang, Lei; Duan, Wen Shan; Lü, Ke Pu) Propagation of nonlinear shallow water waves at a point of discontinuity. (Chinese. English and Chinese summaries)

Gushchin, O. A. Solution of basic problems of shallow-sea dynamics by the finite element method. (Russian. English and Russian summaries) (*see* **2005f:00008**)

Gusyakov, V. K. *see* **Voronina, T. A. et al., (2005b:00020)**

Guyenne, P. *see* **Fochesato, C. et al., 2005k:76085**

Hakkaev, Sevdzhan Scattering of small solutions of a symmetric regularized-long-wave equation. (English summary) **2005g:35241**

Hamdi, S. (*with* Enright, Wayne H.; Schiesser, W. E.; Gottlieb, J. J.) Exact solutions of the generalized equal width wave equation. (English summary) (*see* **2005g:65009**)

— (*with* Enright, Wayne H.; Schiesser, W. E.; Gottlieb, J. J.) Exact solutions and invariants of motion for general types of regularized long wave equations. (English summary) **2005a:35232**

Haugen, Kjetil B. *see* **Tyvand, Peder A.**

Higuera, María J. (*with* Knobloch, Edgar; Vega, José M.) Dynamics of nearly inviscid Faraday waves in almost circular containers. (English summary) **2005i:76043**

Holjević, Danko *see* **Sopta, Luka et al., 2005k:86002**

Hone, Andrew N. W. (*with* Novikov, Vladimir Sergeevich) On a functional equation related to the intermediate long wave equation. (English summary) **2005d:35226**

Huang, Jingfang *see* **Camassa, Roberto et al., 2005h:37152**

Huang, Ming You *see* **Shi, Wei Ping[2] et al.**

Hunt, J. C. R. (*with* Eames, I.; Belcher, Stephen E.) Vorticity dynamics in the water below steep and breaking surface waves. (English summary) **2005a:86005**

Idelsohn, S. R. (*with* Oñate, Eugenio; Del Pin, Facundo) The particle finite element method: a powerful tool to solve incompressible flows with free-surfaces and breaking waves. (English summary) **2005g:76094**

Indeitsev, Dmitry (*with* Mochalova, Yuliya A.) Localized waves in a thin film with growing islands. (English summary) (*see* **2005b:00020**)

Ipatova, V. M. Solvability of a tide dynamics model in adjacent seas. (English summary) **2005m:86008**

Irk, Dursun *see* **Dağ, İdris et al., 2005e:65153**

Islas, A. L. (*with* Schober, C. M.) Predicting rogue waves in random oceanic sea states. (English summary) **2005k:86008**

Ivanov, M. Ya. Free tides in two-dimensional uniform-depth basins. (Russian. Russian summary) **2005h:86005**

Jeltsch, Rolf *see* **Sawyer, William, (2005j:65003)**

Jiang, Chunbo (*with* Li, Kai; Liu, Ning[1]; Zhang, Qinghai) Implicit parallel FEM analysis of shallow water equations. (English summary)

Jin, Shi (*with* Wen, Xin[2]) An efficient method for computing hyperbolic systems with geometrical source terms having concentrations. (English summary) **2005h:65133**

Johnson, Edward R. *see* **Vilenski, Gregory Germanovich, 2005f:76107**

Juanes, Ruben (*with* Patzek, Tadeusz W.) Multiscale-stabilized solutions to one-dimensional systems of conservation laws. (English summary) **2005m:65216**

Kalisch, Henrik Periodic traveling water waves with isobaric streamlines. (English summary) **2005m:35237**

Kenig, Carlos E. *see* **Colliander, James et al., 2005a:35240**

Klein, Rupert *see* **Audusse, Emmanuel et al., 2005f:76069**

Knobloch, Edgar *see* **Higuera, María J. et al., 2005i:76043**

Kobelkov, G. M. *see* **Bogachev, K. Yu., (2005b:76005)**

Konoplëva, I. V. (*with* Loginov, B. V.) Generalized Jordan structure and the symmetry of resolving systems in bifurcation theory. (Russian. English and Russian summaries) **2005i:47108**

Korotyaev, E. L. Inverse spectral problem for the periodic Camassa-Holm equation. (English summary) **2005g:35256**

Krylovas, Aleksandras (*with* Čiegis, Raimondas) Examples of asymptotical analysis of hyperbolic equations. (*see* **2005a:00022**)

Kurkin, Audrey *see* **Dubinina, V. A. et al., 2005k:86006**

Labbé, Stéphane (*with* Paumond, Lionel) Numerical comparisons of two long-wave limit models. (English summary) **2005g:65152**

Lai, Shao Yong (*with* Wu, Yong Hong[1]; Xu, Yang[1]) The global solution of an initial boundary value problem for the damped Boussinesq equation. (English summary) **2005a:35244**

— *see also* **Zhang, Yi et al., 2005m:35270**

Lamb, Kevin G. (*with* Wilkie, Kathleen P.) Conjugate flows for waves with trapped cores. (English summary) **2005f:76026**

Lannes, David Sur le caractère bien posé des équations d'Euler avec surface libre. [Well-posedness of the Euler equations with a free surface] **2005m:76020**

Lee, Long *see* **Camassa, Roberto et al., 2005h:37152**

Lee, Yong-Joong (*with* Munz, Claus-Dieter) Advanced hyperbolic divergence cleaning scheme for shallow water magnetohydrodynamics. (English summary) **2005a:35193**

Le Roux, Daniel Y. (*with* Carey, Graham F.) Stability/dispersion analysis of the discontinuous Galerkin linearized shallow-water system. (English summary) **2005k:76078**

Le Touzé, David *see* **Bonnefoy, Félicien et al., (2005b:00020)**

Li, Biao *see* **Wang, Qi et al.**

Li, De Sheng[3] *see* **Sun, Wang-Jie**

Li, Kai *see* **Jiang, Chunbo et al.**

Li, Xiao Mei *see* **Zhang, Li Lun et al., 2005e:65158**

Li, Y. Charles Chaos in Miles' equations. (English summary) **2005b:37195**

Li, Yi-Shen Some water wave equations and integrability. (English summary) **2005j:37114**

Li, Yile *see* **Mei, Chiang C., 2005j:76016**

Límaco, J. (*with* Clark, H. R.; Medeiros, Luis Adauto) On equations of Benjamin-Bona-Mahony type. (English summary) **2005g:35258**

Lin, Qun[3] *see* **Zhang, Yi et al., 2005m:35270**

Linares, Felipe (*with* Navas, A.) On Schrödinger-Boussinesq equations. (English summary) **2005j:35206**

Liu, Ning[1] *see* **Jiang, Chunbo et al.**

Lizárraga Celaya, Carlos *see* **Shingareva, Inna, 2005j:76009**

Loginov, B. V. *see* **Konoplëva, I. V., 2005i:47108**

Lü, Ke Pu *see* **Guo, Peng et al.**

Ludu, Andrei Solitons and antisolitons on bounded surfaces. (English summary) **2005m:76034**

Lukáčová-Medvid'ová, M. (*with* Vlk, Z.) Well-balanced finite volume evolution Galerkin methods for the shallow water equations with source terms. (English summary) **2005k:65204**

Luo, Zhen Dong (*with* Zhu, Jiang[3]; Zeng, Qing Cun; Xie, Zheng Hui) Mixed finite element methods for the shallow water equations including current and silt sedimentation. I. The continuous-time case. (Chinese. English and Chinese summaries) **2005a:76102**

— (*with* Zhu, Jiang[3]; Zeng, Qing Cun; Xie, Zheng Hui) Mixed finite element methods for the shallow water equations including current and silt sedimentation. II. The discrete-time case along characteristics. (Chinese. English and Chinese summaries) **2005a:76103**

Lvov, Yuri V. *see* **Choi, Yeontaek et al., 2005i:76067**

Ma, Q. W. Meshless local Petrov-Galerkin method for two-dimensional nonlinear water wave problems. (English summary)

Ma, Shixiang (*with* Ding, Shi Jin) On the initial boundary value problem for a shallow water equation. (English summary)

Makarov, S. A. *see* **Sozanov, V. G. et al., 2005g:86009**

Manam, S. R. A note on a singular integral equation arising in water wave scattering. (English summary) **2005m:45003**

McIntyre, M. E. Wind-generated water waves: two overlooked mechanisms? (English summary) **2005a:86008**

Medeiros, Luis Adauto *see* **Límaco, J. et al., 2005g:35258**

Meftah, Khouane *see* **Sergent, Philippe et al., (2005b:00020)**

Mei, Chiang C. (*with* Li, Yile) Evolution of solitons over a randomly rough seabed. (English summary) **2005j:76016**

Merzon, A. *see* **Zhevandrov, Peter N., 2005c:81062**

Mochalova, Yuliya A. *see* **Indeitsev, Dmitry, (2005b:00020)**

Molinet, Luc On well-posedness results for Camassa-Holm equation on the line: a survey. (English summary) **2005k:35360**

— (*with* Saut, J. C.; Tzvetkov, Nickolay) Correction: "Global well-posedness for the KP-I equation" [Math. Ann. **324** (2002), no. 2, 255–275; MR1933858 (2003h:35241)]. **2005b:35245**

Mousavizadegan, S. H. *see* **Rahman, Matiur, 2005m:76095**

Munz, Claus-Dieter *see* **Lee, Yong-Joong, 2005a:35193**

Muzaev, I. D. *see* **Sozanov, V. G. et al., 2005g:86009**

Nachbin, André *see* **Fouque, Jean-Pierre et al., 2005e:35158**

Navas, A. *see* **Linares, Felipe, 2005j:35206**

Nazarenko, S. V. *see* **Choi, Yeontaek et al., 2005i:76067**

Noble, Pascal Existence et stabilité de roll-waves pour les équations de Saint Venant (English and French summaries) [Existence and stability of roll-waves for the Saint-Venant equations] **2005a:35227**

Novikov, Vladimir Sergeevich *see* **Hone, Andrew N. W., 2005d:35226**

Oñate, Eugenio *see* **Idelsohn, S. R. et al., 2005g:76094**

Orenga, Pierre *see* **Flori, Fabien et al., 2005m:35133**

Ortiz, Pablo Finite elements using a plane-wave basis for scattering of surface water waves. (English summary) **2005b:76087**

Özer, Teoman Symmetry group analysis of Benney system and an application for shallow-water equations. (English summary) **2005k:35010**

Pakdil, Ozkan *see* **Rasulov, Mahir et al., 2005g:76087**

Parés, Carlos *see* **Castro-Díaz, Manuel Jesús et al., 2005i:86004**

Parker, Allen On the Camassa-Holm equation and a direct method of solution. I. Bilinear form and solitary waves. (English summary) **2005h:35300**

Patzek, Tadeusz W. *see* **Juanes, Ruben, 2005m:65216**

Paumond, Lionel *see* **Labbé, Stéphane, 2005g:65152**

Pego, Robert L. (*with* Sun, S. M.) On the transverse linear instability of solitary water waves with large surface tension. (English summary) **2005i:35221**

Perthame, Benoît *see* **Audusse, Emmanuel et al., 2005f:76069**

Peybernes, Mathieu *see* **Flori, Fabien et al., 2005m:35133**

Pierotti, Dario On unique solvability and regularity in the linearized two-dimensional wave resistance problem. (English summary) **2005d:35044**

Poloukhina, O. E. *see* **Dubinina, V. A. et al., 2005k:86006**

Pushkarev, Andrei (*with* Resio, D.; Zakharov, Vladimir E.) Weak turbulent approach to the wind-generated gravity sea waves. (English summary) **2005h:86007**
— *see also* **Zakharov, Vladimir E. et al., 2005f:76058**
Quintero, José Raúl Existence and analyticity of lump solutions for generalized Benney-Luke equations. (English summary) **2005b:35267**
Rahman, Matiur (*with* Mousavizadegan, S. H.) Nonlinear instability of dispersive waves. (English and Spanish summaries) **2005m:76095**
Rasulov, Mahir (*with* Aslan, Zafer; Pakdil, Ozkan) Finite differences method for shallow water equations in a class of discontinuous functions. (English summary) **2005g:76087**
Reich, Sebastian *see* **Cotter, Colin John et al., 2005a:76120**
Resio, D. *see* **Pushkarev, Andrei et al., 2005h:86007**
Rodriguez-Paz, Miguel (*with* Bonet, Javier) A corrected smooth particle hydrodynamics formulation of the shallow-water equations. (English summary) **2005k:76106**
Rosier, Lionel Control of the surface of a fluid by a wavemaker. (English summary) **2005h:93091**
Sajjadi, S. G. (*with* Bettencourt, M. T.) An improved parameterization for energy exchange from wind to Stokes waves. (English summary) **2005a:86009**
Saka, Bülent *see* **Dağ, İdris et al., 2005e:65153**
Salmon, Rick Poisson-bracket approach to the construction of energy- and potential-enstrophy-conserving algorithms for the shallow-water equations. (English summary) **2005g:86008**
Saut, J. C. *see* **Molinet, Luc et al., 2005b:35245** *and* **Bona, Jerry L. et al., 2005k:35350**
Sawyer, William (*with* Jeltsch, Rolf) A finite-volume mass- and vorticity-conserving shallow-water model using penta-/hexagonal grids. (English summary) (*see* **2005j:65003**)
Schiesser, W. E. *see* **Hamdi, S. et al., 2005a:35232** *and* (**2005g:65009**)
Schober, C. M. *see* **Islas, A. L., 2005k:86008** *and* **Ablowitz, Mark J.,** (**2005h:65004**)
Scott, Larkin Ridgway *see* **Girault, Vivette,** (**2005h:65004**)
Seabra-Santos, F. J. *see* **Avilez-Valente, P., 2005k:76071**
Seaïd, Mohammed Non-oscillatory relaxation methods for the shallow-water equations in one and two space dimensions. (English summary) **2005c:76071**
Sergent, Philippe (*with* Gomi, Patrick; Meftah, Khouane) Active absorbing boundary for an extended Boussinesq-like model. (English summary) (*see* **2005b:00020**)
Shapiro, Evgeniy (*with* Timoshin, Sergei) On the patterns of interaction between shear and interfacial modes in plane air-water Poiseuille flow. (English summary) **2005m:76082**
Sherwin, Spencer J. *see* **Eskilsson, Claes et al.,** (**2005b:00020**)
Shi, Wei Ping[2] (*with* Huang, Ming You; Wang, Ting; Zhang, Xiao-jiang) Explicit kinetic flux vector splitting scheme for the 2-D shallow water wave equations. (English summary)
Shingareva, Inna (*with* Lizárraga Celaya, Carlos) Critical curves in fluid structures. (Spanish. Spanish summary) **2005j:76009**
Shu, Chi-Wang *see* **Xing, Yulong, 2005m:76125**
Shurina, E. P. *see* **Stywrin, A. V. et al.,** (**2005i:65006**)
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Škifić, Jerko *see* **Sopta, Luka et al., 2005k:86002**
Song, Jun Qiang *see* **Zhang, Li Lun et al., 2005e:65158**
Sopta, Luka (*with* Črnjarić-Žic, Nelida; Vuković, Senka; Holjević, Danko; Škifić, Jerko; Družeta, Siniša) Numerical simulations of water wave propagation and flooding. (English summary) **2005k:86002**
— *see also* **Črnjarić-Žic, Nelida et al., 2005d:76028** *and* **2005m:65164**
Soustova, I. A. *see* **Gorshkov, K. A. et al.**
Sozanov, V. G. (*with* Muzaev, I. D.; Makarov, S. A.) Analytic and numerical solutions of initial-boundary value problems of the wave motion of water in a reservoir. (Russian. Russian summary) **2005g:86009**
Staffilani, G. *see* **Colliander, James et al., 2005a:35240**
St-Cyr, Amik (*with* Thomas, Stephen J.) Nonlinear operator integration factor splitting for the shallow water equations. (English summary) **2005k:65216**
(Stokes, George Gabriel) *see* **Craik, Alex D. D., 2005b:76001** *and* **2005i:76001**
Stywrin, A. V. (*with* Shurina, E. P.; Chubarov, L. B.) A feature of the FVM/FEM-approach for modeling of surface waves on water. (English summary) (*see* **2005i:65006**)
Sun, S. M. *see* **Pego, Robert L., 2005i:35221**
Sun, Wang-Jie (*with* Li, De Sheng[3]) Solving the $(2+1)$-dimensional modified dispersive water-wave system via an improved variable separation approach. (English summary)
Tang, Hua-zhong (*with* Tang, Tao; Xu, Kun) A gas-kinetic scheme for shallow-water equations with source terms. (English summary) **2005a:76127**
Tang, Tao *see* **Tang, Hua-zhong et al., 2005a:76127**
Tathy, Christian Existence of the attractor for the shallow-water equations. (English summary) **2005a:37154**
Ter-Krikorov, A. M. *see* **Belolipetskiĭ, A. A., 2005m:35083**
Thomas, Stephen J. *see* **St-Cyr, Amik, 2005k:65216**
Tian, Li Xin *see* **Fu, Min**
Timoshin, Sergei *see* **Shapiro, Evgeniy, 2005m:76082**
Troitskaya, Yu. I. *see* **Gorshkov, K. A. et al.**
Tsutsumi, Yoshio *see* **De Bouard, A. et al., 2005k:60194**
Tyvand, Peder A. (*with* Haugen, Kjetil B.) Initial free-surface elevation due to impulsive deflection of a two-dimensional bottom with small slope and small curvature. (English summary)
Tzvetkov, Nickolay *see* **Molinet, Luc et al., 2005b:35245**
Vega, José M. *see* **Higuera, María J. et al., 2005i:76043**
Vilenski, Gregory Germanovich (*with* Johnson, Edward R.) Near-critical free-surface rotating flow over topography. (English summary) **2005f:76107**
Vittori, Giovanna *see* **Galletta, Veronica, 2005e:76064**
Vlk, Z. *see* **Lukáčová-Medvid'ová, M., 2005k:65204**
Voronina, T. A. (*with* Gusyakov, V. K.; Cheverda, V. A.) Reconstruction of the original Tsunami waveform on the insular arc bottom topography by the coastal observations inversion. (English summary) (*see* **2005b:00020**)
Vuković, Senka *see* **Črnjarić-Žic, Nelida et al., 2005d:76028**; **2005m:65164** *and* **Sopta, Luka et al., 2005k:86002**
Wang, Qi (*with* Chen, Yong[3]; Li, Biao; Zhang, Hong Qing[1]) New exact travelling wave solutions for the shallow long wave approximate equations. (English summary)
Wang, Ting *see* **Shi, Wei Ping[2] et al.**
Wen, Xin[2] *see* **Jin, Shi, 2005h:65133**
Westerink, Joannes J. *see* **Bunya, Shintaro et al.**
Wilkie, Kathleen P. *see* **Lamb, Kevin G., 2005f:76026**
Wright, N. G. *see* **Crossley, A. J.**
Wu, Yong Hong[1] *see* **Lai, Shao Yong et al., 2005a:35244**
Xia, Zhi Homogeneous balance method and exact analytical solutions for Whitham-Broer-Kaup equations in shallow water. (English summary)
Xie, Zheng Hui *see* **Luo, Zhen Dong et al., 2005a:76102** *and* **2005a:76103**
Xing, Yulong (*with* Shu, Chi-Wang) High order finite difference WENO schemes with the exact conservation property for the shallow water equations. (English summary) **2005m:76125**
Xu, Kun *see* **Tang, Hua-zhong et al., 2005a:76127**
Xu, Yang[1] *see* **Lai, Shao Yong et al., 2005a:35244**
Yin, Zhao Yang On the blow-up scenario for the generalized Camassa-Holm equation. (English summary) **2005b:35030**
— Well-posedness, blowup, and global existence for an integrable shallow water equation. (English summary) **2005j:35022**
— Global existence and blow-up for a periodic integrable shallow water equation with linear and nonlinear dispersion. (English summary)
Yoshimura, Shinobu *see* **Bunya, Shintaro et al.**
Zakaria, K. *see* **Elhefnawy, Abdel Raouf F. et al., 2005h:76037**
Zakharov, Vladimir E. (*with* Dias, Frédéric; Pushkarev, Andrei) One-dimensional wave turbulence. (English summary) **2005f:76058**
— *see also* **Pushkarev, Andrei et al., 2005h:86007**
Zeng, Qing Cun *see* **Luo, Zhen Dong et al., 2005a:76102** *and* **2005a:76103**
Zhang, Hong Qing[1] *see* **Wang, Qi et al.**
Zhang, Lei *see* **Guo, Peng et al.**
Zhang, Li Lun (*with* Song, Jun Qiang; Li, Xiao Mei) Semi-implicit discretization of 2-D shallow water equations based on spectral element method and its parallel computing. (Chinese. English summary) **2005e:65158**
Zhang, Qinghai *see* **Jiang, Chunbo et al.**
Zhang, Xiao-jiang *see* **Shi, Wei Ping[2] et al.**
Zhang, Yi (*with* Lin, Qun[3]; Lai, Shao Yong) Long-time asymptotic for the damped Boussinesq equation in a circle. (English summary) **2005m:35270**
Zheng, Chun Long (*with* Fang, Jian-Ping; Chen, Li Qun) New variable separation excitations of $(2+1)$-dimensional dispersive long-water wave system obtained by an extended mapping approach. (English summary)
Zhevandrov, Peter N. (*with* Merzon, A.) Asymptotics of eigenfunctions in shallow potential wells and related problems. (English summary) **2005c:81062**
Zhou, Xiao Yang *see* **Cheng, Bing[1] et al.**; **Bao, Yuan Lin et al.** *and* **Chen, Xiu Rong et al.**
Zhou, Yong[4] Wave breaking for a shallow water equation. (English summary) **2005b:35252**
Zhu, Jiang[3] *see* **Luo, Zhen Dong et al., 2005a:76102** *and* **2005a:76103**

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Danilov, V. G. (*with* Ekimov, R. V.) Weak asymptotic soliton type solution to shallow water system. (English summary) **2005m:76033**
De Martino, Salvatore (*with* Lauro, Giuliana) Soliton-like solutions for a capillary fluid. (English summary) (*see* **2005c:00016**)
Ekimov, R. V. *see* **Danilov, V. G., 2005m:76033**
Enright, Wayne H. *see* **Hamdi, S. et al., 2005h:76019**
Grimshaw, Roger H. J. (*with* Pelinovskiĭ, E. N.; Talipova, T. G.; Kurkin, Audrey) Simulation of the transformation of internal solitary waves on oceanic shelves. (English summary)
Hamdi, S. (*with* Enright, Wayne H.; Ouellet, Y.; Schiesser, W. E.) Exact solutions of extended Boussinesq equations. (English summary) **2005h:76019**
Kurkin, Audrey *see* **Grimshaw, Roger H. J. et al.**
Lauro, Giuliana *see* **De Martino, Salvatore,** (**2005c:00016**)
Li, Yile *see* **Mei, Chiang C., 2005j:76016**
Liu, Yue[1] (*with* Varlamov, Vladimir) Stability of solitary waves and weak rotation limit for the Ostrovsky equation. (English summary) **2005f:76022**
Ludu, Andrei Solitons and antisolitons on bounded surfaces. (English summary) **2005m:76034**
Mei, Chiang C. (*with* Li, Yile) Evolution of solitons over a randomly rough seabed. (English summary) **2005j:76016**
Ouellet, Y. *see* **Hamdi, S. et al., 2005h:76019**
Pelinovskiĭ, E. N. *see* **Grimshaw, Roger H. J. et al.**
Schiesser, W. E. *see* **Hamdi, S. et al., 2005h:76019**
Talipova, T. G. *see* **Grimshaw, Roger H. J. et al.**
Varlamov, Vladimir *see* **Liu, Yue[1], 2005f:76022**

Items with secondary classifications in 76B25

Angulo Pava, Jaime Stability of cnoidal waves to Hirota-Satsuma systems. (English summary) **2005j:35190**
Apel, John R. A new analytical model for internal solitons in the ocean. (English summary) **2005e:86001**
Avilez-Valente, P. (*with* Seabra-Santos, F. J.) A Petrov-Galerkin finite element scheme for the regularized long wave equation. (English summary) **2005k:76071**
Barrandon, Matthieu Homoclinic solutions of reversible systems possessing an essential spectrum. (English and French summaries) **2005h:37185**
Baskar, S. (*with* Prasad, Phoolan) Kinematical conservation laws applied to study geometrical shapes of a solitary wave. (English summary) **2005a:76017**
Bi, Qinsheng *see* **Zhang, Zheng Di et al.**
Borzi, C. H. (*with* Kraenkel, Roberto A.; Manna, M. A.; Pereira, Antonio) Nonlinear dynamics of short traveling capillary-gravity waves. (English summary) **2005m:76025**
Buffoni, Boris Conditional energetic stability of gravity solitary waves in the presence of weak surface tension. (English summary) **2005k:76014**
Cea, L. (*with* Ferreiro Ferreiro, Ana M.; Vázquez-Cendón, María Elena; Puertas, J.) Experimental and numerical analysis of solitary waves generated by bed and boundary movements. (English summary) **2005g:86004**

Chen, Chun-Li (*with* Lou, Sen-Yue; Li, Yi-Shen) Solitary wave solutions for a general Boussinesq type fluid model. (English summary) **2005d:35221**
Chen, Deng Yuan *see* **Zhang, Yi[5] et al., 2005b:35237** *and* **Xia, Tie-Cheng, 2005b:35249**
Chen, Yong[3] (*with* Wang, Qi; Li, Biao) A generalized algebraic method for constructing a series of explicit exact solutions of a $(1+1)$-dimensional dispersive long wave equation. (English summary)
Deng, Shu Fang *see* **Zhang, Yi[5] et al., 2005b:35237**
Engelbrecht, Jüri *see* **Soomere, Tarmo, 2005f:76019**
Ferreiro Ferreiro, Ana M. *see* **Cea, L. et al., 2005g:86004**
Gorshkov, K. A. (*with* Ostrovskiĭ, L. A.; Soustova, I. A.; Irisov, V. G.) Perturbation theory for kinks and its application for multisoliton interactions in hydrodynamics. (English summary) **2005f:35270**
Grimshaw, Roger H. J. Internal solitary waves. (English summary) (*see* **2005b:76003**)
— (*with* Pudjaprasetya, S. R.) Generation of secondary solitary waves in the variable-coefficient Korteweg-de Vries equation. (English summary) **2005a:35243**
Irisov, V. G. *see* **Gorshkov, K. A. et al., 2005f:35270**
Kraenkel, Roberto A. *see* **Borzi, C. H. et al., 2005m:76025**
Li, Biao *see* **Chen, Yong[3] et al.**
Li, Chunyan A geosolitary wave solution on an f plane. (English summary) **2005b:86012**
Li, Yi-Shen Some water wave equations and integrability. (English summary) **2005j:37114**
— *see also* **Zhang, Jin E., 2005a:35234** *and* **Chen, Chun-Li et al., 2005d:35221**
Lou, Sen-Yue *see* **Chen, Chun-Li et al., 2005d:35221**
Manna, M. A. *see* **Borzi, C. H. et al., 2005m:76025**
Milewski, Paul A. Three-dimensional localized solitary gravity-capillary waves. (English summary) **2005j:76013**
Muñoz Grajales, Juan Carlos (*with* Nachbin, André) Stiff microscale forcing and solitary wave refocusing. (English summary) **2005m:76029**
Nachbin, André *see* **Muñoz Grajales, Juan Carlos, 2005m:76029**
Ostrovskiĭ, L. A. *see* **Gorshkov, K. A. et al., 2005f:35270**
Parker, Allen On the Camassa-Holm equation and a direct method of solution. I. Bilinear form and solitary waves. (English summary) **2005h:35300**
Pego, Robert L. (*with* Sun, S. M.) On the transverse linear instability of solitary water waves with large surface tension. (English summary) **2005i:35221**
Pelloni, Beatrice The propagation of nonlinear water waves in a bounded domain. (English summary) (*see* **2005b:00020**)
Peltier, W. R. *see* **Stastna, M., 2005h:86008**
Pereira, Antonio *see* **Borzi, C. H. et al., 2005m:76025**
Popov, S. P. On the properties of two-dimensional soliton solutions of an evolution equation. (Russian. Russian summary) **2005k:35361**
Prasad, Phoolan *see* **Baskar, S., 2005a:76017**
Pudjaprasetya, S. R. *see* **Grimshaw, Roger H. J., 2005a:35243**
Puertas, J. *see* **Cea, L. et al., 2005g:86004**
Quintero, José Raúl Existence and analyticity of lump solutions for generalized Benney-Luke equations. (English summary) **2005b:35267**
— Nonlinear stability of solitary waves for a 2-D Benney-Luke equation. (English summary) **2005m:35262**
Ruban, Victor P. Water waves over a strongly undulating bottom. (English summary) **2005j:76014**
Schneider, Guido[1] (*with* Wayne, C. Eugene) On the validity of 2D-surface water wave models. (English summary) **2005a:76022**
Seabra-Santos, F. J. *see* **Avilez-Valente, P., 2005k:76071**
Soomere, Tarmo Interaction of Kadomtsev-Petviashvili solitons with unequal amplitudes. (English summary)
— (*with* Engelbrecht, Jüri) Extreme elevations and slopes of interacting solitons in shallow water. (English summary) **2005f:76019**
Soustova, I. A. *see* **Gorshkov, K. A. et al., 2005f:35270**
Stastna, M. (*with* Peltier, W. R.) Upstream-propagating solitary waves and forced internal-wave breaking in stratified flow over a sill. (English summary) **2005b:86008**
Sun, S. M. *see* **Pego, Robert L., 2005i:35221**
Tajiri, Masayoshi Periodic soliton resonances. (English summary) **2005e:35196**
Torres, Pedro J. Some remarks on a Neumann boundary value problem arising in fluid dynamics. (English summary) **2005k:34077**
Vázquez-Cendón, María Elena *see* **Cea, L. et al., 2005g:86004**
Wang, Qi *see* **Chen, Yong[3] et al.**
Wayne, C. Eugene *see* **Schneider, Guido[1], 2005a:76022**
Wen, Jianping *see* **Zhang, Zheng Di et al.**
Xia, Tie-Cheng (*with* Chen, Deng Yuan) Dromion and other exact solutions of $(2+1)$-dimensional dispersive long water equations. (English summary) **2005b:35249**
Yin, Zhao Yang Well-posedness, blowup, and global existence for an integrable shallow water equation. (English summary) **2005j:35022**
Zhang, Jin E. (*with* Li, Yi-Shen) Theory of bidirectional solitons on water. (English summary) **2005a:35234**
Zhang, Yi[5] (*with* Deng, Shu Fang; Chen, Deng Yuan) The novel N-soliton solutions of equation for shallow water waves. (English summary) **2005b:35237**
Zhang, Zheng Di (*with* Bi, Qinsheng; Wen, Jianping) Bifurcations of traveling wave solutions for two coupled variant Boussinesq equations in shallow water waves. (English summary)

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Elcrat, Alan R. (*with* Neel, Robert; Siegel, David) Equilibrium configurations for a floating drop. (English summary) **2005j:76017**
Kidambi, R. *see* **Shankar, P. N., 2005m:76035**
Munnier, Alexandre Stability and linear oscillations of liquid bridges with varied boundary conditions under zero gravity. (English summary) **2005a:76023**
Neel, Robert *see* **Elcrat, Alan R. et al., 2005j:76017**
Scholz, Markus On the asymptotic behaviour of capillary surfaces in cusps. (English summary) **2005e:76023**
Shankar, P. N. (*with* Kidambi, R.) The contact angle in inviscid fluid mechanics. (English summary) **2005m:76035**
Siegel, David *see* **Elcrat, Alan R. et al., 2005j:76017**
Vanden-Broeck, Jean-Marc Nonlinear capillary free-surface flows. (English summary) **2005i:76023**

Items with secondary classifications in 76B45

Alberti, Giovanni (*with* DeSimone, Antonio) Wetting of rough surfaces: a homogenization approach. (English summary) **2005m:82043**
Anderson, Michael Lindsay (*with* Bangerth, Wolfgang; Carey, Graham F.) Analysis of parameter sensitivity and experimental design for a class of nonlinear partial differential equations. (English summary) **2005m:76044**
Asavanant, J. *see* **Maleewong, M. et al., (2005b:76003)**
Bangerth, Wolfgang *see* **Anderson, Michael Lindsay et al., 2005m:76044**
Boniforti, M. A. *see* **La Rocca, Michele et al., 2005e:76018**
Borzi, C. H. (*with* Kraenkel, Roberto A.; Manna, M. A.; Pereira, Antonio) Nonlinear dynamics of short traveling capillary-gravity waves. (English summary) **2005m:76025**
Carey, Graham F. *see* **Anderson, Michael Lindsay et al., 2005m:76044**
Crowdy, Darren Exact solutions for uniform vortex layers attached to corners and wedges. (English summary) **2005m:76037**
De Martino, Salvatore (*with* Lauro, Giuliana) Soliton-like solutions for a capillary fluid. (English summary) (*see* **2005c:00016**)
DeSimone, Antonio *see* **Alberti, Giovanni, 2005m:82043**
Dobrokhotov, S. Yu. (*with* Semenov, E. S.; Tirozzi, Brunello) On the computation of integrals of the Hugoniot-Maslov chain for singular vortex solutions of the shallow-water equations. (Russian. Russian summary) **2005c:37119**
Fraenkel, L. E. (*with* Keady, G.) On the entry of a wedge into water: the thin wedge and an all-purpose boundary-layer equation. (English summary) **2005d:76003**
Grimshaw, Roger H. J. *see* **Maleewong, M. et al., (2005b:76003)**
Keady, G. *see* **Fraenkel, L. E., 2005d:76003**
Kidambi, R. (*with* Shankar, P. N.) The effects of the contact angle on sloshing in containers. (English summary) **2005b:76019**
Kraenkel, Roberto A. *see* **Borzi, C. H. et al., 2005m:76025**
La Rocca, Michele (*with* Sciortino, G.; Boniforti, M. A.) Gravity-capillary waves in layered fluid. (English and Ukrainian summaries) **2005e:76018**
Lauro, Giuliana *see* **De Martino, Salvatore, (2005c:00016)**
Liang, Fei-Tsen Harnack's inequalities for solutions to the mean curvature equation and to the capillarity problem. (English summary) **2005b:35084**
Maleewong, M. (*with* Asavanant, J.; Grimshaw, Roger H. J.) Numerical calculation of steady gravity-capillary waves forced by a surface pressure distribution. (English summary) (*see* **2005b:76003**)
Manna, M. A. *see* **Borzi, C. H. et al., 2005m:76025**
Milewski, Paul A. Three-dimensional localized solitary gravity-capillary waves. (English summary) **2005j:76013**
Nicolás, José A. Effects of static contact angles on inviscid gravity-capillary waves. (English summary) **2005i:76018**
Nitsche, Monika (*with* Steen, Paul H.) Numerical simulations of inviscid capillary pinchoff. (English summary)
Papageorgiou, Demetrios T. (*with* Vanden-Broeck, Jean-Marc) Antisymmetric capillary waves in electrified fluid sheets. (English summary) **2005m:76191**
Pereira, Antonio *see* **Borzi, C. H. et al., 2005m:76025**
Pukhnachev, V. V. Capillary/gravity film flows on the surface of a rotating cylinder. (English and Russian summaries) **2005b:76015**
Scholz, Markus Generalized solutions of the capillary problem. (English summary) **2005e:49025**
— An attempt to explain the ascent of sap in defoliated trees. (English summary) **2005c:92018**
Sciortino, G. *see* **La Rocca, Michele et al., 2005e:76018**
Semenov, E. S. *see* **Dobrokhotov, S. Yu. et al., 2005c:37119**
Shankar, P. N. *see* **Kidambi, R., 2005b:76019**
Steen, Paul H. *see* **Nitsche, Monika**
Tirozzi, Brunello *see* **Dobrokhotov, S. Yu. et al., 2005c:37119**
Vanden-Broeck, Jean-Marc *see* **Papageorgiou, Demetrios T., 2005m:76191**

76B47 Vortex flows

Abedini, Yoosofali *see* **Eshraghi, Homayoon, 2005b:76025**
Boatto, Stefanella (*with* Cabral, Hildeberto E.) Nonlinear stability of a latitudinal ring of point-vortices on a nonrotating sphere. (English summary) **2005c:76022**
Burton, Geoffrey R. Isoperimetric properties of Lamb's circular vortex-pair. (English summary) **2005j:76018**
Cabral, Hildeberto E. *see* **Boatto, Stefanella, 2005c:76022**
Caillol, P. (*with* Grimshaw, Roger H. J.) Steady multipolar planar vortices with nonlinear critical layers. (English summary) **2005m:76036**
Carton, Xavier J. *see* **Maze, Guillaume et al., 2005g:76017**
Chashechkin, Yu. D. *see* **Kistovich, A. V., 2005b:76027**
Chefranov, A. S. (*with* Chefranov, S. G.) Extrema of kinetic energy and the rates of its dissipation in the hydromechanics of swirling flows. (Russian) **2005f:76023**
Chefranov, S. G. *see* **Chefranov, A. S., 2005f:76023**
Chomaz, Jean-Marc *see* **Gallaire, F., 2005a:76024**
Chow, K. W. *see* **Gurarie, David, 2005b:76026** *and* **Kuvshinov, B. N.**
Chu, Z. Kwang-Hua Ball-like structures of the Beltrami flow field. (English summary) **2005i:76024**
Clercx, H. J. H. *see* **Schoemaker, R. M. et al., 2005e:76025**
Crowdy, Darren Exact solutions for uniform vortex layers attached to corners and wedges. (English summary) **2005m:76037**
— (*with* Marshall, Jonathan Simon) Growing vortex patches. (English summary) **2005b:76024**
Cui, Y. D. *see* **Lim, T. T.**
Deng, Xue Ying *see* **Li, Guo Hui, 2005k:76020**
Eisenga, A. H. M. *see* **Grinchenko, V. T. et al., 2005a:76025**

Emamizadeh, B. (*with* Mehrabi, M. H.) Asymptotic behavior of the centroids of a family of vortices. (English summary) **2005g:76015**
Eshraghi, Homayoon (*with* Abedini, Yoosofali) The generalized Leray transformation for the finite time singular vortices in fluids. (English summary) **2005b:76025**
Gallaire, F. (*with* Chomaz, Jean-Marc) Instability mechanisms in swirling flows. (English summary) **2005a:76024**
Grimshaw, Roger H. J. *see* **Caillol, P., 2005m:76036**
Grīnchenko, V. T. (*with* Meleshko, V. V.; Gurzhiĭ, A. A.; van Heijst, G. J. F.; Eisenga, A. H. M.) Two approaches to the analysis of the coaxial interaction of vortex rings. (English summary) **2005a:76025**
Gubin, A. Yu. On the stability of a certain vortex motion of a viscous incompressible fluid. (Russian. Russian summary) **2005m:76038**
Guo, Yan (*with* Hallstrom, Chris; Spirn, Daniel) Dynamics near an unstable Kirchhoff ellipse. (English summary) **2005m:76039**
Gurarie, David (*with* Chow, K. W.) Vortex arrays for sinh-Poisson equation of two-dimensional fluids: equilibria and stability. (English summary) **2005b:76026**
— *see also* **Kuvshinov, B. N.**
Gurzhiĭ, A. A. *see* **Grīnchenko, V. T. et al., 2005a:76025**
Hallstrom, Chris *see* **Guo, Yan et al., 2005m:76039**
(Haslam, Michael C.) *see* **Shusser, Michael**
van Heijst, G. J. F. *see* **Grīnchenko, V. T. et al., 2005a:76025** *and* **Schoemaker, R. M. et al., 2005e:76025**
Hinds, Alan K. *see* **Johnson, Edward R. et al., 2005m:76040**
Hua, B. L. *see* **Louazel, S., 2005b:76028**
Izrailsky, Yu. G. (*with* Kozlov, V. F.; Koshel′, K. V.) Some specific features of chaotization of the pulsating barotropic flow over elliptic and axisymmetric sea-mounts. (English summary) **2005c:76023**
Johnson, Edward R. (*with* McDonald, N. Robb) The point island approximation in vortex dynamics. (English summary) **2005i:76025**
— (*with* Hinds, Alan K.; McDonald, N. Robb) Steadily translating vortices near step topography. (English summary) **2005m:76040**
Jones, Marvin A. The separated flow of an inviscid fluid around a moving flat plate. (English summary) **2005i:76026**
Kalashnik, M. V. Vortex funnel formation by a mass sink within the shallow-water model. (Russian. Russian summary) **2005a:76026**
Karlikov, V. P. (*with* Tolokonnikov, S. L.) Jet-cavitational streamline of the "atmosphere" of a pair of vortices. (Russian. Russian summary) **2005f:76024**
Khushalani, B. The families of periodic orbits bifurcating from the fixed equilibria in a 48-dimensional system. (English summary) **2005d:76008**
Khvoles, Ruvim *see* **Kizner, Ziv, 2005j:76019** *and* **2005j:76020**
Kistovich, A. V. (*with* Chashechkin, Yu. D.) Geometrization of vortex and spiral flows in an ideal homogeneous fluid. (English summary) **2005b:76027**
Kizner, Ziv (*with* Khvoles, Ruvim) The tripole vortex: experimental evidence and explicit solutions. (English summary) **2005j:76019**
— (*with* Khvoles, Ruvim) Two variations on the theme of Lamb-Chaplygin: supersmooth dipole and rotating multipoles. (English summary) **2005j:76020**
Koshel′, K. V. (*with* Stepanov, D. V.) Some specific features on chaotization and transport in pulsating barotropic flow over a topographic point vortex near boundary. (English summary) **2005g:76016**
— *see also* **Izrailsky, Yu. G. et al., 2005c:76023**
Kozlov, V. F. *see* **Izrailsky, Yu. G. et al., 2005c:76023**
van Kuik, G. A. M. The flow induced by Prandtl's self-similar vortex sheet spirals at infinite distance from the spiral kernel. (English summary) **2005m:76041**
Kurakin, L. G. On nonlinear stability of the regular vortex systems on a sphere. (English summary) **2005f:76025**
Kuvshinov, B. N. (*with* Schep, T. J.) Comment on: "Vortex arrays for sinh-Poisson equation of two-dimensional fluids: equilibria and stability" [Phys. Fluids **16** (2004), no. 9, 3296–3305; MR2082036 (2005b:76026)] by D. Gurarie and K. W. Chow.
Lapeyre, G. *see* **Maze, Guillaume et al., 2005g:76017**
Laurent-Polz, F. Point vortices on a rotating sphere. (English summary) **2005m:76042**
Li, Guo Hui (*with* Deng, Xue Ying) A critical pattern of crossflow around a slender. (Chinese. English and Chinese summaries) **2005k:76020**
Lim, T. T. (*with* Cui, Y. D.) On the generation of a spiral-type vortex breakdown in an enclosed cylindrical container. (English summary)
Louazel, S. (*with* Hua, B. L.) Vortex erosion in a shallow-water model. (English summary) **2005b:76028**
(Mallier, Roland) *see* **Shusser, Michael**
Marshall, J. S. Particle dispersion in a turbulent vortex core. (English summary)
Marshall, Jonathan Simon *see* **Crowdy, Darren, 2005b:76024**
Maze, Guillaume (*with* Carton, Xavier J.; Lapeyre, G.) Dynamics of a 2D vortex doublet under external deformation. (English summary) **2005g:76017**
McDonald, N. Robb *see* **Johnson, Edward R. et al., 2005i:76025; 2005m:76040** *and* **White, Andrew J., 2005i:76029**
Mehrabi, M. H. *see* **Emamizadeh, B., 2005g:76015**
Meleshko, V. V. *see* **Grīnchenko, V. T. et al., 2005a:76025**
Nebus, Joseph The Dirichlet quotient of point vortex interactions on the surface of the sphere examined by Monte Carlo experiments. (English summary) **2005i:76027**
Newton, Paul K. (*with* Ruith, M.; Upchurch, E.) The constrained planar N-vortex problem. I. Integrability. (English summary) **2005k:76021**
Ohtsuka, Kazumichi (*with* Takaki, Ryuji; Watanabe, Shinsuke) Coplanar two vortex filaments without change of form. (English summary) **2005e:76024**
Perekhrest, V. Ī. A new class of solutions of the Euler hydrodynamic equations for axisymmetric vortex flows. (Ukrainian. English summary) **2005g:76018**
Riccardi, Giorgio Motion of an elliptical uniform vortex outside a circular cylinder. (English summary) **2005g:76019**
Ruith, M. *see* **Newton, Paul K. et al., 2005k:76021**
Sakajo, Takashi Transition of global dynamics of a polygonal vortex ring on a sphere with pole vortices. (English summary) **2005i:76028**
Schep, T. J. *see* **Kuvshinov, B. N.**
Schmidt, Dieter S. The stability of the Thomson heptagon. (English summary) **2005j:76021**
Schoemaker, R. M. (*with* Clercx, H. J. H.; van Heijst, G. J. F.) Stability and transport properties of multiple-patch quasiequilibria. (English summary) **2005e:76025**
Shashikanth, B. N. Poisson brackets for the dynamically interacting system of a 2D rigid cylinder and N point vortices: the case of arbitrary smooth cylinder shapes. (English summary) **2005k:76022**
Shusser, Michael Comment on: "Vortices on a cylinder" [Phys. Fluids **15** (2003), no. 7, 2087–2088; MR1987480 (2004d:76019)] by M. C. Haslam and R. Mallier.
Sokolovskiĭ, M. A. (*with* Verron, J.) Dynamics of three vortices in a two-layer rotating fluid. (English summary) **2005j:76022**
Spirn, Daniel *see* **Guo, Yan et al., 2005m:76039**
Stepanov, D. V. *see* **Koshel′, K. V., 2005g:76016**
Stetsenko, Olexandr Grygorovych A linear problem of the steady motion of a vortex in a stratified medium. Stages of its evolution. (Ukrainian. English, Russian and Ukrainian summaries) **2005j:76023**
Stremler, Mark A. Relative equilibria of singly periodic point vortex arrays. (English summary) **2005e:76026**
Takaki, Ryuji *see* **Ohtsuka, Kazumichi et al., 2005e:76024**
Tolokonnikov, S. L. *see* **Karlikov, V. P., 2005f:76024**
Tur, A. V. (*with* Yanovsky, Vladimir) Point vortices with a rational necklace: new exact stationary solutions of the two-dimensional Euler equation. (English summary) **2005b:76029**
Upchurch, E. *see* **Newton, Paul K. et al., 2005k:76021**
Verron, J. *see* **Sokolovskiĭ, M. A., 2005j:76022**
Watanabe, Shinsuke *see* **Ohtsuka, Kazumichi et al., 2005e:76024**
White, Andrew J. (*with* McDonald, N. Robb) The motion of a point vortex near large-amplitude topography in a two-layer fluid. (English summary) **2005i:76029**
Wu, Jie-Zhi (*with* Xiong, A.-K.; Yang, Y.-T.) Axial stretching and vortex definition. (English summary)
Xiong, A.-K. *see* **Wu, Jie-Zhi et al.**
Yang, Y.-T. *see* **Wu, Jie-Zhi et al.**
Yanovsky, Vladimir *see* **Tur, A. V., 2005b:76029**

Items with secondary classifications in 76B47

Albensoeder, Stefan *see* **Kuhlmann, Hendrik C., 2005m:76062**
Ambrose, David M. Well-posedness of vortex sheets with surface tension. (English summary) **2005g:76006**
Bahrami, F. *see* **Emamizadeh, B. et al.**
Baker, Gregory R. (*with* Beale, J. Thomas) Vortex blob methods applied to interfacial motion. (English summary) **2005e:76063**
Balasuriya, Sanjeeva An analytical study of general hyper-diffusivity and barotropic eddies. (English summary) **2005k:86004**
Banaszuk, Andrzej *see* **Noack, Bernd R. et al., 2005b:76071**
Barrero, Antonio *see* **Herrada, Miguel Angel, 2005f:76046**
Beale, J. Thomas *see* **Baker, Gregory R., 2005e:76063**
Benilov, E. S. Stability of a two-layer quasigeostrophic vortex over axisymmetric localized topography. (English summary) **2005j:76042**
Bessaih, H. (*with* Flandoli, Franco) Limit behaviour of a dense collection of vortex filaments. (English summary) **2005m:76104**
Birbaud, Anne-Laure *see* **Lacaze, Laurent et al., 2005g:76057**
Bonneton, Natalie *see* **Sous, Damien et al.**
Borisov, Alekseĭ Vladimirovich (*with* Mamaev, I. S.; Ramodanov, S. M.) Motion of a circular cylinder and n point vortices in a perfect fluid. (English summary) **2005a:37164**
Boyd, John Philip *see* **Tan, Benkui, 2005a:76079**
Budyansky, M. (*with* Uleĭskiĭ, M. Yu.; Prants, S.) Hamiltonian fractals and chaotic scattering of passive particles by a topographical vortex and an alternating current. (English summary) **2005e:76049**
Burton, Geoffrey R. (*with* Preciso, Luca) Existence and isoperimetric characterization of steady spherical vortex rings in a uniform flow in $\mathbb{R}^N$. (English summary) **2005d:35060**
Canuto, Vittorio M. *see* **Dubovikov, Mikhail S., 2005m:86007**
Chadwick, Edmund A slender-wing theory in potential flow. (English summary) **2005i:76015**
Chang, Chih-Pei *see* **Kuo, Hung-Chi et al., 2005h:86012**
Chemin, Jean-Yves Two-dimensional Euler system and the vortex patches problem. **2005m:76019**
Chow, K. W. *see* **Rogers, Colin et al., 2005j:76055**
Deng, Xue Ying *see* **Li, Guo Hui, 2005i:76057**
Denier, James P. (*with* Stott, Jillian A. K.) The dominant wave mode within a trailing line vortex. (English summary) **2005g:76056**
Dimitroglo, M. G. (*with* Lifanov, Ivan K.; Setukha, A. V.) On numerical modelling of a three-dimensional flow past a wing with external flow suction and on the effect of flow suction on trailing vortices. (English summary) **2005b:76079**
Du, Qiang (*with* Zhang, Ping[4]) Existence of weak solutions to some vortex density models. (English summary) **2005g:35240**
Dubovikov, Mikhail S. (*with* Canuto, Vittorio M.) Dynamic model of mesoscale eddies. Eddy parameterization for coarse resolution ocean circulation models. (English summary) **2005m:86007**
Emamizadeh, B. (*with* Bahrami, F.; Mehrabi, M. H.) Steiner symmetric vortices attached to seamounts. (English summary)
Esler, J. G. (*with* Polvani, L. M.) Kelvin-Helmholtz instability of potential vorticity layers: a route to mixing. (English summary) **2005b:86028**
Flandoli, Franco *see* **Bessaih, H., 2005m:76104**
Grasso, Lewis D. *see* **Nolan, David S., 2005f:86006**
Gutiérrez, Susana (*with* Vega, Luis) Self-similar solutions of the localized induction approximation: singularity formation. (English summary) **2005m:35236**
Gutkin, Eugene (*with* Newton, Paul K.) The method of images and Green's function for spherical domains. (English summary) **2005h:30070**
Hermann, Marcus A Eulerian level set/vortex sheet method for two-phase interface dynamics. (English summary) **2005i:76082**

Herrada, Miguel Angel (*with* Barrero, Antonio) Nonparallel linear stability analysis of unconfined vortices. (English summary) **2005f:76046**
Hou, Thomas Yizhao (*with* Yang, Dan-ping; Wang, Ke[4]) Homogenization of incompressible Euler equations. (English summary) **2005a:76095**
Ingel', L. Kh. Dynamics of acoustic disturbances in intense atmospheric vortices. (Russian. Russian summary) **2005a:86021**
Kerr, Robert M. Vortex collapse and turbulence. (English summary) **2005m:76106**
Khayat, Roger E. *see* **Li, Zhenyu, 2005e:76044**
Khushalani, B. Equilibrium configurations based on Platonic geometries. (English summary) **2005f:70017**
Kim, Namkwon Eigenvalues associated with the vortex patch in 2-D Euler equations. (English summary) **2005h:35285**
Kuhlmann, Hendrik C. (*with* Albensoeder, Stefan) Strained vortices in driven cavities. (English summary) **2005m:76062**
Kuo, Hung-Chi (*with* Lin, L.-Y.; Chang, Chih-Pei; Williams, R. T.) The formation of concentric vorticity structures in typhoons. (English summary) **2005h:86012**
Lacaze, Laurent (*with* Birbaud, Anne-Laure; Le Dizès, Stéphane) Elliptic instability in a Rankine vortex with axial flow. (English summary) **2005g:76057**
Lazar, Markus On the correspondence between a screw dislocation in gradient elasticity and a regularized vortex. (English summary)
Le Dizès, Stéphane *see* **Lacaze, Laurent et al., 2005g:76057**
Li, Guo Hui (*with* Deng, Xue Ying) Stability of the crossflow pattern around a slender and influence of disturbance. (Chinese. English and Chinese summaries) **2005i:76057**
Li, Zhenyu (*with* Khayat, Roger E.) Pattern formation in weakly forced Taylor-Couette flow. (English summary) **2005e:76044**
Lifanov, Ivan K. *see* **Dimitroglo, M. G. et al., 2005b:76079**
Lin, L.-Y. *see* **Kuo, Hung-Chi et al., 2005h:86012**
Mak, C. C. *see* **Rogers, Colin et al., 2005j:76055**
Mamaev, I. S. *see* **Borisov, Alekseĭ Vladimirovich et al., 2005a:37164**
McDonald, N. Robb A new translating quasigeostrophic V-state. (English summary) **2005m:86009**
Mehrabi, M. H. *see* **Emamizadeh, B. et al.**
Mezić, Igor *see* **Vainchtein, D. L., 2005b:76031**; **2005c:76026** *and* **Noack, Bernd R. et al., 2005b:76071**
Montaldi, James (*with* Soulière, Anik; Tokieda, Tadashi) Vortex dynamics on a cylinder. (English summary) **2005e:37119**
Newton, Paul K. *see* **Gutkin, Eugene, 2005h:30070**
Noack, Bernd R. (*with* Mezić, Igor; Tadmor, Gilead; Banaszuk, Andrzej) Optimal mixing in recirculation zones. (English summary) **2005b:76071**
Nolan, David S. (*with* Grasso, Lewis D.) Nonhydrostatic, three-dimensional perturbations to balanced, hurricane-like vortices. II. Symmetric response and nonlinear simulations. (English summary) **2005f:86006**
Polvani, L. M. *see* **Esler, J. G., 2005b:86028**
Prants, S. *see* **Budyansky, M. et al., 2005e:76049**
Preciso, Luca *see* **Burton, Geoffrey R., 2005d:35060**
Ramodanov, S. M. *see* **Borisov, Alekseĭ Vladimirovich et al., 2005a:37164**
Rogers, Colin (*with* Schief, Wolfgang Karl; Chow, K. W.; Mak, C. C.) On Tzitzéica vortex streets and their reciprocals in subsonic gas dynamics. (English summary) **2005j:76055**
Rozanova, Olga S. Note on the typhoon eye trajectory. (English summary) **2005f:86007**
Schief, Wolfgang Karl *see* **Rogers, Colin et al., 2005j:76055**
Setukha, A. V. *see* **Dimitroglo, M. G. et al., 2005b:76079**
Slepčev, Dejan On level-set approach to motion of manifolds of arbitrary codimension. (English summary) **2005a:53111**
Sommeria, Joël *see* **Sous, Damien et al.**
Soulière, Anik *see* **Montaldi, James et al., 2005e:37119**
Sous, Damien (*with* Bonneton, Natalie; Sommeria, Joël) Turbulent vortex dipoles in a shallow water layer. (English summary)
Stott, Jillian A. K. *see* **Denier, James P., 2005g:76056**
Subin, P. J. (*with* Vedan, M. J.) Vorticity invariants in hydrodynamics. (English summary) **2005a:76005**
Tadmor, Gilead *see* **Noack, Bernd R. et al., 2005b:76071**
Tan, Benkui (*with* Boyd, John Philip) Stable and unstable evolution of modons perturbed by surface term, bottom friction, and bottom topography incorporating nonlinear Ekman pumping. (English summary) **2005a:76079**
Thorpe, S. A. Langmuir circulation. (English summary) **2005d:86005**
Tokieda, Tadashi *see* **Montaldi, James et al., 2005e:37119**
Uleĭskiĭ, M. Yu. *see* **Budyansky, M. et al., 2005e:76049**
Vainchtein, D. L. (*with* Mezić, Igor) Control of vortex elements: flat coordinates vs. adiabatic control. (English summary) **2005c:76026**
— (*with* Mezić, Igor) Optimal control of a co-rotating vortex pair: averaging and impulsive control. (English summary) **2005b:76031**
Vedan, M. J. *see* **Subin, P. J., 2005a:76005**
Vega, Luis *see* **Gutiérrez, Susana, 2005m:35236**
Wang, Ke[4] *see* **Hou, Thomas Yizhao et al., 2005a:76095**
Williams, R. T. *see* **Kuo, Hung-Chi et al., 2005h:86012**
Yang, Dan-ping *see* **Hou, Thomas Yizhao et al., 2005a:76095**
Zhang, Ping[4] *see* **Du, Qiang, 2005g:35240**

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Akylas, T. R. *see* **Skopovi, Ivan, 2005a:76029**
Bardakov, R. N. *see* **Chashechkin, Yu. D.**
Broutman, Dave (*with* Rottman, James W.; Eckermann, Stephen D.) Ray methods for internal waves in the atmosphere and ocean. (English summary) **2005a:76027**
Chashechkin, Yu. D. (*with* Vasil'ev, A. Yu.) Generation of three-dimensional periodic internal waves by compact sources. (Russian) **2005c:76024**
— (*with* Bardakov, R. N.) Two-dimensional attached internal waves and the accompanying boundary layers. (Russian)
Chernykh, G. G. *see* **Voropaeva, O. F. et al.**
Eckermann, Stephen D. *see* **Broutman, Dave et al., 2005a:76027**
Grimshaw, Roger H. J. Internal solitary waves. (English summary) (*see* **2005b:76003**)
Lamb, Kevin G. (*with* Wilkie, Kathleen P.) Conjugate flows for waves with trapped cores. (English summary) **2005f:76026**
Lvov, Yuri V. (*with* Tabak, Esteban G.) A Hamiltonian formulation for long internal waves. (English summary) **2005e:76027**
Moshkin, N. P. *see* **Voropaeva, O. F. et al.**
Perova, L. V. Propagation of disturbances produced by a wave traveling over an inclined bottom in a rotating stratified fluid. (Russian. Russian summary) **2005a:76028**
Rottman, James W. *see* **Broutman, Dave et al., 2005a:76027**
Skopovi, Ivan (*with* Akylas, T. R.) Transient nonlinear disturbances and shelves in a stratified fluid layer. (English summary) **2005a:76029**
Tabak, Esteban G. *see* **Lvov, Yuri V., 2005e:76027**
Vasil'ev, A. Yu. *see* **Chashechkin, Yu. D., 2005c:76024**
Voropaeva, O. F. (*with* Moshkin, N. P.; Chernykh, G. G.) Internal waves generated by turbulent wakes in a stably stratified medium. (Russian)
Wilkie, Kathleen P. *see* **Lamb, Kevin G., 2005f:76026**

Items with secondary classifications in 76B55

Adcroft, Alistair *see* **Legg, Sonya, 2005b:86011**
Apel, John R. A new analytical model for internal solitons in the ocean. (English summary) **2005e:86001**
Boniforti, M. A. *see* **Sciortino, G. et al., 2005f:76018**
Broutman, Dave (*with* Grimshaw, Roger H. J.; Eckermann, Stephen D.) Internal waves in a Lagrangian reference frame. (English summary) **2005j:86013a**
— (*with* Grimshaw, Roger H. J.; Eckermann, Stephen D.) Reply: "Comments on: 'Internal waves in a Lagrangian reference frame'" [J. Atmospheric Sci. **62** (2005), no. 1, 251–253; MR2114471 (2005j:86013b)] by C. O. Hines. **2005j:86013c**
— *see also* **Hines, Colin O., 2005j:86013b**
Castro-Díaz, Manuel Jesús (*with* García-Rodríguez, J. A.; González Vida, José M.; Macías Sánchez, Jorge; Parés, Carlos; Vázquez-Cendón, María Elena) Simulation of internal waves in the Strait of Gibraltar using a two-layer shallow-water model. (*see* **2005b:00020**)
Chun, Hye-Yeong *see* **Song, In-Sun, 2005i:86014**
Eckermann, Stephen D. *see* **Broutman, Dave et al., 2005j:86013a**; **2005j:86013c** *and* **Hines, Colin O., 2005j:86013b**
Evans, Thomas E. *see* **Shen, Colin Y., 2005e:76015**
García-Rodríguez, J. A. *see* **Castro-Díaz, Manuel Jesús et al.,** (**2005b:00020**)
González Vida, José M. *see* **Castro-Díaz, Manuel Jesús et al.,** (**2005b:00020**)
Grimshaw, Roger H. J. (*with* Khusnutdinova, K. R.) The effect of bubbles on internal waves. (English summary) **2005a:86003**
— (*with* Pelinovskiĭ, E. N.; Talipova, T. G.; Kurkin, Audrey) Simulation of the transformation of internal solitary waves on oceanic shelves. (English summary)
— *see also* **Broutman, Dave et al., 2005j:86013a**; **2005j:86013c** *and* **Hines, Colin O., 2005j:86013b**
Hines, Colin O. Comments on: "Internal waves in a Lagrangian reference frame" [J. Atmospheric Sci. **61** (2004), no. 11, 1308–1313; MR2066165 (2005j:86013a)] by D. Broutman, R. H. J. Grimshaw and S. D. Eckermann. **2005j:86013b**
— *see also* **Broutman, Dave et al., 2005j:86013c**
Khusnutdinova, K. R. *see* **Grimshaw, Roger H. J., 2005a:86003**
Klaassen, G. P. *see* **Yau, K.-H. et al., 2005b:76062**
Kolmogorov, Andreĭ Nikolaevich Almost horizontal turbulence. (Russian) **2005d:76020**
Kurkin, Audrey *see* **Grimshaw, Roger H. J. et al.**
La Rocca, Michele *see* **Sciortino, G. et al., 2005f:76018**
Legg, Sonya (*with* Adcroft, Alistair) Internal wave breaking at concave and convex continental slopes. (English summary) **2005b:86011**
Linares, Felipe (*with* Milanés, Aniura) A note on solutions to a model for long internal waves in a rotating fluid. (English summary) **2005k:35337**
Liu, Yue[1] (*with* Varlamov, Vladimir) Stability of solitary waves and weak rotation limit for the Ostrovsky equation. (English summary) **2005f:76022**
Macías Sánchez, Jorge *see* **Castro-Díaz, Manuel Jesús et al.,** (**2005b:00020**)
Menzaque, Fernando *see* **Milewski, Paul A. et al., 2005h:76036**
Milanés, Aniura *see* **Linares, Felipe, 2005k:35337**
Milewski, Paul A. (*with* Tabak, Esteban G.; Turner, Cristina; Rosales, Rodolfo Rubén; Menzaque, Fernando) Nonlinear stability of two-layer flows. (English summary) **2005h:76036**
Molinet, Luc (*with* Ribaud, Francis) Well-posedness results for the generalized Benjamin-Ono equation with arbitrary large initial data. **2005j:35200**
— (*with* Ribaud, Francis) Well-posedness results for the generalized Benjamin-Ono equation with small initial data. (English and French summaries) **2005a:35252**
Parés, Carlos *see* **Castro-Díaz, Manuel Jesús et al.,** (**2005b:00020**)
Pelinovskiĭ, E. N. *see* **Grimshaw, Roger H. J. et al.**
Peltier, W. R. *see* **Stastna, M., 2005h:86008**
Ribaud, Francis *see* **Molinet, Luc, 2005a:35252** *and* **2005j:35200**
Rosales, Rodolfo Rubén *see* **Milewski, Paul A. et al., 2005h:76036**
Sciortino, G. (*with* La Rocca, Michele; Boniforti, M. A.) Hamiltonian formulation for the motion of a two fluid system with free surface. (English and Ukrainian summaries) **2005f:76018**
Shen, Colin Y. (*with* Evans, Thomas E.) A free-surface hydrodynamic model for density stratified flow in the weakly to strongly non-hydrostatic regime. (English summary) **2005e:76015**
Smolarkiewicz, Piotr K. *see* **Wedi, Nils P., 2005j:86012**
Song, In-Sun (*with* Chun, Hye-Yeong) Momentum flux spectrum of convectively forced internal gravity waves and its application to gravity wave drag parameterization. I. Theory. (English summary) **2005i:86014**
Sonmor, L. J. *see* **Yau, K.-H. et al., 2005b:76062**
Stastna, M. (*with* Peltier, W. R.) Upstream-propagating solitary waves and forced internal-wave breaking in stratified flow over a sill. (English summary) **2005h:86008**
Tabak, Esteban G. *see* **Milewski, Paul A. et al., 2005h:76036**
Talipova, T. G. *see* **Grimshaw, Roger H. J. et al.**
Turner, Cristina *see* **Milewski, Paul A. et al., 2005h:76036**

Vanneste, J. (*with* Yavneh, Irad) Exponentially small inertia-gravity waves and the breakdown of quasigeostrophic balance. (English summary) **2005a:86025**
— Inertia-gravity wave generation by balanced motion: revisiting the Lorenz-Krishnamurthy model. (English summary) **2005b:86019**
Varlamov, Vladimir *see* **Liu, Yue[1], 2005f:76022**
Vázquez-Cendón, María Elena *see* **Castro-Díaz, Manuel Jesús et al., (2005b:00020)**
Wedi, Nils P. (*with* Smolarkiewicz, Piotr K.) Laboratory for internal gravity-wave dynamics: the numerical equivalent to the quasi-biennial oscillation (QBO) analogue. (English summary) **2005j:86012**
Yau, K.-H. (*with* Klaassen, G. P.; Sonmor, L. J.) Principal instabilities of large amplitude inertio-gravity waves. (English summary) **2005b:76062**
Yavneh, Irad *see* **Vanneste, J., 2005a:86025**

76B60 Atmospheric waves [see also 86A10]

Kalashnik, M. V. Analytic solutions in the theory of deformation frontogenesis. (Russian) **2005i:76030**
Ter-Krikorov, A. M. Internal waves in the middle layer of a three-layer atmosphere from sources located in the lower layer. (Russian. Russian summary) **2005c:76025**

Items with secondary classifications in 76B60

Balasuriya, Sanjeeva An analytical study of general hyper-diffusivity and barotropic eddies. (English summary) **2005k:86004**
Bannon, Peter R. *see* **Chagnon, Jeffrey M., 2005m:86014** *and* **2005m:86015**
Biello, Joseph A. (*with* Majda, Andrew J.) The effect of meridional and vertical shear on the interaction of equatorial baroclinic and barotropic Rossby waves. (English summary) **2005e:86007**
Broutman, Dave (*with* Rottman, James W.; Eckermann, Stephen D.) Ray methods for internal waves in the atmosphere and ocean. (English summary) **2005a:76027**
Chagnon, Jeffrey M. (*with* Bannon, Peter R.) Wave response during hydrostatic and geostrophic adjustment. I. Transient dynamics. (English summary) **2005m:86014**
— (*with* Bannon, Peter R.) Wave response during hydrostatic and geostrophic adjustment. II. Potential vorticity conservation and energy partitioning. (English summary) **2005m:86015**
Chun, Hye-Yeong *see* **Song, In-Sun, 2005i:86014**
Davies, Huw C. *see* **Dirren, Sébastien, 2005b:86026**
Dennis, John M. *see* **Thomas, Stephen J. et al., 2005e:65157**
Dirren, Sébastien (*with* Davies, Huw C.) Combined dynamics of boundary and interior perturbations in the Eady setting. (English summary) **2005b:86026**
Eckermann, Stephen D. *see* **Broutman, Dave et al., 2005a:76027**
Ehrendorfer, Martin A vector derivation of the semigeostrophic potential vorticity equation. (English summary) **2005b:86027**
Esler, J. G. (*with* Polvani, L. M.) Kelvin-Helmholtz instability of potential vorticity layers: a route to mixing. (English summary) **2005b:86028**
Fischer, Paul F. *see* **Thomas, Stephen J. et al., 2005e:65157**
Hodyss, Daniel (*with* Nathan, Terrence R.) The connection between coherent structures and low-frequency wave packets in large-scale atmospheric flow. (English summary) **2005f:86005**
Kay, Anthony Inertial oscillations and frontogenesis driven by a quadratic horizontal density variation. (English summary) **2005g:86006**
Lin, Wan Tao *see* **Mo, Jia Qi et al., 2005k:86014**
Majda, Andrew J. *see* **Biello, Joseph A., 2005e:86007**
McCann, Robert J. (*with* Oberman, Adam M.) Exact semi-geostrophic flows in an elliptical ocean basin. (English summary) **2005g:37164**
Mo, Jia Qi (*with* Lin, Wan Tao; Wang, Hui[1]) A perturbed solution of sea-air oscillator for the ENSO mechanism. (English summary) **2005k:86014**
Muñoz Grajales, Juan Carlos (*with* Nachbin, André) Dispersive wave attenuation due to orographic forcing. (English summary) **2005d:76007**
Nachbin, André *see* **Muñoz Grajales, Juan Carlos, 2005d:76007**
Nakamura, Noboru[1] Quantifying asymmetric wave breaking and two-way transport. (English summary) **2005h:86015**
Nathan, Terrence R. *see* **Hodyss, Daniel, 2005f:86005**
Oberman, Adam M. *see* **McCann, Robert J., 2005g:37164**
Pérez-García, Ismael *see* **Skiba, Yuri N., 2005j:76043**
Polvani, L. M. *see* **Esler, J. G., 2005b:86028**
Raupp, Carlos F. M. (*with* Silva Dias, Pedro L.) Excitation mechanism of mixed Rossby-gravity waves in the equatorial atmosphere: role of the nonlinear interactions among equatorial waves. (English summary) **2005m:86018**
Rottman, James W. *see* **Broutman, Dave et al., 2005a:76027**
Sharman, R. D. (*with* Wurtele, M. G.) Three-dimensional structure of forced gravity waves and lee waves. (English summary) **2005b:86017**
Silva Dias, Pedro L. *see* **Raupp, Carlos F. M., 2005m:86018**
Skiba, Yuri N. (*with* Pérez-García, Ismael) On the structure and growth rate of unstable modes to the Rossby-Haurwitz wave. (English summary) **2005j:76043**
Song, In-Sun (*with* Chun, Hye-Yeong) Momentum flux spectrum of convectively forced internal gravity waves and its application to gravity wave drag parameterization. I. Theory. (English summary) **2005i:86014**
Thomas, Stephen J. (*with* Dennis, John M.; Tufo, Henry M.; Fischer, Paul F.) A Schwarz preconditioner for the cubed-sphere. (English summary) **2005e:65157**
Tufo, Henry M. *see* **Thomas, Stephen J. et al., 2005e:65157**
Wang, Hui[1] *see* **Mo, Jia Qi et al., 2005k:86014**
Wurtele, M. G. *see* **Sharman, R. D., 2005b:86017**

76B65 Rossby waves [see also 86A05, 86A10]

Biello, Joseph A. (*with* Majda, Andrew J.) Boundary layer dissipation and the nonlinear interaction of equatorial baroclinic and barotropic Rossby waves. (English summary) **2005m:76043**
Chen, Zhe[2] *see* **Fu, Zun-Tao et al., 2005g:76020**
Fu, Zun-Tao (*with* Chen, Zhe[2]; Liu, Shi-Da; Liu, Shi-Kuo) Periodic structure of equatorial envelope Rossby wave under influence of diabatic heating. (English summary) **2005g:76020**
— (*with* Liu, Shi-Da; Liu, Shi-Kuo) Structures of equatorial envelope Rossby wave under a generalized external forcing. (English summary)
— (*with* Liu, Shi-Kuo; Liu, Shi-Da) Multiple structures of two-dimensional nonlinear Rossby wave. (English summary)
Hodyss, Daniel (*with* Nathan, Terrence R.) Effects of topography and potential vorticity forcing on solitary Rossby waves in zonally varying flow. (English summary) **2005a:76030**
Liu, Shi-Da *see* **Fu, Zun-Tao et al., 2005g:76020**
Liu, Shi-Kuo *see* **Fu, Zun-Tao et al., 2005g:76020**
Majda, Andrew J. *see* **Biello, Joseph A., 2005m:76043**
Nathan, Terrence R. *see* **Hodyss, Daniel, 2005a:76030**

Items with secondary classifications in 76B65

Abrahams, I. David *see* **Owen, G. W. et al., 2005m:86010**
Ben Jelloul, Mahdi (*with* Huck, Thierry) Basin-mode interactions and selection by the mean flow in a reduced-gravity quasigeostrophic model. (English summary) **2005d:86002**
Biello, Joseph A. (*with* Majda, Andrew J.) The effect of meridional and vertical shear on the interaction of equatorial baroclinic and barotropic Rossby waves. (English summary) **2005e:86007**
Campbell, L. J. Wave-mean-flow interactions in a forced Rossby wave packet critical layer. (English summary) **2005a:76160**
Chelton, Dudley B. *see* **Lyman, John M. et al., 2005j:86006**
Chen, Zhe[2] (*with* Fu, Zun-Tao; Liu, Shi-Kuo) Periodic structures of oceanic Rossby wave under the influence of wind stress. (English summary)
Colin de Verdière, A. (*with* Tailleux, R.) The interaction of a baroclinic mean flow with long Rossby waves. (English summary) **2005m:86006**
Davies, Huw C. *see* **Schwierz, Cornelia et al., 2005a:86010**
Dirren, Sébastien *see* **Schwierz, Cornelia et al., 2005a:86010**
Fu, Zun-Tao *see* **Chen, Zhe[2] et al.**
Grenier, Emmanuel (*with* Jones, Christopher K. R. T.; Rousset, Frédéric; Sandstede, Björn) Viscous perturbations of marginally stable Euler flow and finite-time Melnikov theory. (English summary) **2005k:76033**
Huck, Thierry *see* **Ben Jelloul, Mahdi, 2005d:86002**
Jones, Christopher K. R. T. *see* **Grenier, Emmanuel et al., 2005k:76033**
Kaladze, T. (*with* Rogava, Dzh. L.; Tsamalashvili, L.; Tsiklauri, Mikheil) First- and second-order accurate implicit difference schemes for the Charney-Obukhov equation. (English summary) **2005b:76094**
Kurkin, Audrey (*with* Poloukhina, O. E.) Nonlinear focusing on anomalous Rossby waves in the ocean: numerical experiments. (Russian. Russian summary)
LaCasce, J. H. (*with* Pedlosky, Joseph) The instability of Rossby basin modes and the oceanic eddy field. (English summary) **2005e:86003**
Liu, Shi-Kuo *see* **Chen, Zhe[2] et al.**
Luo, Dehai A barotropic envelope Rossby soliton model for block-eddy interaction. I. Effect of topography. (English summary) **2005i:86013**
— A barotropic envelope Rossby soliton model for block-eddy interaction. II. Role of westward-traveling planetary waves. (English summary) **2005h:86013**
Lyman, John M. (*with* Chelton, Dudley B.; de Szoeke, Roland A.; Samelson, Roger M.) Tropical instability waves as a resonance between equatorial Rossby waves. (English summary) **2005j:86006**
Majda, Andrew J. *see* **Biello, Joseph A., 2005e:86007**
Mansley, H. *see* **Owen, G. W. et al., 2005m:86010**
Montgomery, Michael T. *see* **Schecter, David A., 2005a:86023** *and* **Moore, Richard W., 2005b:86031**
Moore, Richard W. (*with* Montgomery, Michael T.) Reexamining the dynamics of short-scale, diabatic Rossby waves and their role in midlatitude moist cyclogenesis. (English summary) **2005b:86031**
Owen, G. W. (*with* Willmott, A. J.; Abrahams, I. David; Mansley, H.) The scattering of Rossby waves from finite abrupt topography. (English summary) **2005m:86010**
Pedlosky, Joseph *see* **LaCasce, J. H., 2005e:86003** *and* **Spall, Michael A., 2005j:86011**
Pérez-García, Ismael *see* **Skiba, Yuri N., 2005j:76043**
Pierini, Stefano A model study of the spectral structure of boundary-driven Rossby waves and related altimetric implications. (English summary) **2005j:86009**
Poloukhina, O. E. *see* **Kurkin, Audrey**
Reid, Robert O. (*with* Wang, Ou) Bottom-trapped Rossby waves in an exponentially stratified ocean. (English summary) **2005b:86016**
Rogava, Dzh. L. *see* **Kaladze, T. et al., 2005b:76094**
Rousset, Frédéric *see* **Grenier, Emmanuel et al., 2005k:76033**
Samelson, Roger M. *see* **Lyman, John M. et al., 2005j:86006**
Sandstede, Björn *see* **Grenier, Emmanuel et al., 2005k:76033**
Schecter, David A. (*with* Montgomery, Michael T.) Damping and pumping of a vortex Rossby wave in a monotonic cyclone: critical layer stirring versus inertia-bouyancy wave emission. (English summary) **2005a:86023**
Schwierz, Cornelia (*with* Dirren, Sébastien; Davies, Huw C.) Forced waves on a zonally aligned jet stream. (English summary) **2005a:86010**
Skiba, Yuri N. (*with* Pérez-García, Ismael) On the structure and growth rate of unstable modes to the Rossby-Haurwitz wave. (English summary) **2005j:76043**
Spall, Michael A. (*with* Pedlosky, Joseph) Reflection and transmission of equatorial Rossby waves. (English summary) **2005j:86011**
de Szoeke, Roland A. An effect of the thermobaric nonlinearity of the equation of state: a mechanism for sustaining solitary Rossby waves. (English summary) **2005c:86003**
— *see also* **Lyman, John M. et al., 2005j:86006**
Tailleux, R. *see* **Colin de Verdière, A., 2005m:86006**
Tsamalashvili, L. *see* **Kaladze, T. et al., 2005b:76094**
Tsiklauri, Mikheil *see* **Kaladze, T. et al., 2005b:76094**
Wang, Ou *see* **Reid, Robert O., 2005b:86016**
Willmott, A. J. *see* **Owen, G. W. et al., 2005m:86010**

76B70 Stratification effects in inviscid fluids

Antar, Nalan (*with* Moodie, T. B.) Self-similarity and the evaluation of long-time nonhydrostatic effects in compositionally driven gravity flows in deep surroundings. (English summary) **2005j:76024**

Chashechkin, Yu. D. (*with* Kistovich, A. V.) Computation of the structure of periodic flows in a continuously stratified fluid taking into account diffusion effects. (Russian)

D'Alessio, S. J. D. *see* **Pascal, J. P. et al., 2005g:76021**

Kistovich, A. V. *see* **Chashechkin, Yu. D.**

Moodie, T. B. *see* **Pascal, J. P. et al., 2005g:76021** *and* **Antar, Nalan, 2005j:76024**

Pascal, J. P. (*with* Moodie, T. B.; D'Alessio, S. J. D.) Stratified two-layer thermally-enhanced gravity-driven flows. (English summary) **2005g:76021**

Items with secondary classifications in 76B70

Boniforti, M. A. *see* **Sciortino, G. et al., 2005f:76018**

D'Alessio, S. J. D. (*with* Pascal, J. P.; Moodie, T. B.) Thermally enhanced gravity driven flows. (English summary) **2005b:76032**

Evans, Thomas E. *see* **Shen, Colin Y., 2005e:76015**

Givoli, Dan *see* **van Joolen, Vince J. et al., 2005g:76012** *and* **2005g:76086**

Grimshaw, Roger H. J. Internal solitary waves. (English summary) (*see* **2005b:76003**)

He, Juan Xiong (*with* Yang, Xiu Qun; Yu, Zhi Hao) Well-posedness of the Cauchy problem for barotropic equations with orographic forcing. I. The inviscid case. (Chinese. English and Chinese summaries) **2005f:76104**

van Joolen, Vince J. (*with* Neta, Beny; Givoli, Dan) A stratified dispersive wave model with high-order nonreflecting boundary conditions. (English summary) **2005g:76086**

— (*with* Neta, Beny; Givoli, Dan) High-order boundary conditions for linearized shallow water equations with stratification, dispersion and advection. (English summary) **2005g:76012**

Klaassen, G. P. *see* **Yau, K.-H. et al., 2005b:76062**

Kononov, Yu. N. On the oscillations of a physical pendulum containing a two-layer fluid separated by an elastic membrane. (Russian. Russian summary) **2005m:74029**

La Rocca, Michele *see* **Sciortino, G. et al., 2005f:76018**

McWilliams, James C. (*with* Molemaker, M. Jeroen; Yavneh, Irad) Ageostrophic, anticyclonic instability of a geostrophic, barotropic boundary current. (English summary) **2005e:86004**

Menzaque, Fernando *see* **Milewski, Paul A. et al., 2005h:76036**

Milewski, Paul A. (*with* Tabak, Esteban G.; Turner, Cristina; Rosales, Rodolfo Rubén; Menzaque, Fernando) Nonlinear stability of two-layer flows. (English summary) **2005h:76036**

Molemaker, M. Jeroen *see* **McWilliams, James C. et al., 2005e:86004**

Moodie, T. B. *see* **D'Alessio, S. J. D. et al., 2005b:76032**

Muñoz-Ruiz, María Luz On a nonhomogeneous bi-layer shallow-water problem: an existence theorem. (English summary) **2005e:76021**

Neta, Beny *see* **van Joolen, Vince J. et al., 2005g:76012** *and* **2005g:76086**

Pascal, J. P. *see* **D'Alessio, S. J. D. et al., 2005b:76032**

Peltier, W. R. *see* **Stastna, M., 2005h:86008**

Perova, L. V. Propagation of disturbances produced by a wave traveling over an inclined bottom in a rotating stratified fluid. (Russian. Russian summary) **2005a:76028**

Rosales, Rodolfo Rubén *see* **Milewski, Paul A. et al., 2005h:76036**

Sciortino, G. (*with* La Rocca, Michele; Boniforti, M. A.) Hamiltonian formulation for the motion of a two fluid system with free surface. (English and Ukrainian summaries) **2005f:76018**

Shen, Colin Y. (*with* Evans, Thomas E.) A free-surface hydrodynamic model for density-stratified flow in the weakly to strongly non-hydrostatic regime. (English summary) **2005e:76015**

Sonmor, L. J. *see* **Yau, K.-H. et al., 2005b:76062**

Stastna, M. (*with* Peltier, W. R.) Upstream-propagating solitary waves and forced internal-wave breaking in stratified flow over a sill. (English summary) **2005h:86008**

Stetsenko, Olexandr Grygorovych A linear problem of the steady motion of a vortex in a stratified medium. Stages of its evolution. (Ukrainian. English, Russian and Ukrainian summaries) **2005j:76023**

Tabak, Esteban G. *see* **Milewski, Paul A. et al., 2005h:76036**

Turner, Cristina *see* **Milewski, Paul A. et al., 2005h:76036**

Ungarish, Marius Dam-break release of a gravity current in a stratified ambient. (English summary) **2005m:76032**

Yang, Xiu Qun *see* **He, Juan Xiong et al., 2005f:76104**

Yau, K.-H. (*with* Klaassen, G. P.; Sonmor, L. J.) Principal instabilities of large amplitude inertio-gravity waves. (English summary) **2005b:76062**

Yavneh, Irad *see* **McWilliams, James C. et al., 2005e:86004**

Yu, Zhi Hao *see* **He, Juan Xiong et al., 2005f:76104**

76B75 Flow control and optimization [see also 49Q10, 93C20, 93C95]

Anderson, Michael Lindsay (*with* Bangerth, Wolfgang; Carey, Graham F.) Analysis of parameter sensitivity and experimental design for a class of nonlinear partial differential equations. (English summary) **2005m:76044**

Bangerth, Wolfgang *see* **Anderson, Michael Lindsay et al., 2005m:76044**

Carey, Graham F. *see* **Anderson, Michael Lindsay et al., 2005m:76044**

Ding, Yan (*with* Wang, Sam S. Y.) Identification of Manning's roughness coefficients in channel network using adjoint analysis. (English summary)

Li, Ta Tsien Exact controllability for quasilinear hyperbolic systems and its application to unsteady flows in a network of open canals. (English summary) **2005b:76030**

Mezić, Igor *see* **Vainchtein, D. L., 2005b:76031** *and* **2005c:76026**

Vainchtein, D. L. (*with* Mezić, Igor) Control of vortex elements: flat coordinates vs. adiabatic control. (English summary) **2005c:76026**

— (*with* Mezić, Igor) Optimal control of a co-rotating vortex pair: averaging and impulsive control. (English summary) **2005b:76031**

Wang, Sam S. Y. *see* **Ding, Yan**

Items with secondary classifications in 76B75

Chakib, A. (*with* Nachaoui, Abdeljalil) Nonlinear programming approach for a transient free boundary flow problem. (English summary) **2005g:76114**

Chen, Ren Zhao *see* **Gao, Hai Yin et al.**

Gao, Hai Yin (*with* Weng, Shi You; Chen, Ren Zhao) Penalty shifting method for calculation of optimal linewise control of osmotic systems for the basis of concrete dam. (Chinese. English and Chinese summaries)

Gugat, Martin (*with* Leugering, Günter; Schmidt, E. J. P. Georg) Global controllability between steady supercritical flows in channel networks. (English summary) **2005a:93017**

de Halleux, Jonathan *see* **Prieur, Christophe[2], 2005d:93115**

Komornik, Vilmos (*with* Loreti, Paola; Mazzini, Leonardo) Null controllability of the free surface of a liquid in a container. (English summary) **2005e:93016**

Leugering, Günter *see* **Gugat, Martin et al., 2005a:93017**

Li, Ta Tsien (*with* Rao, Bopeng) Contrôlabilité exacte frontière de l'écoulement d'un fluide non-stationnaire dans un réseau du type d'arbre de canaux ouverts. (English and French summaries) [Exact boundary controllability of unsteady flows in a tree-like network of open canals] **2005h:93018**

— Exact boundary controllability of unsteady flows in a network of open canals. (English summary) **2005h:93090**

Loreti, Paola *see* **Komornik, Vilmos et al., 2005e:93016**

Mazzini, Leonardo *see* **Komornik, Vilmos et al., 2005e:93016**

Mohammadi, Bijan (*with* Pironneau, Olivier) Shape optimization in fluid mechanics. (English summary) **2005a:76138**

Nachaoui, Abdeljalil *see* **Chakib, A., 2005g:76114**

Phung, Kim Dang Stabilization of the incompressible 2D Euler equations in a simply connected domain utilizing the Lorentz force. (English summary) **2005i:76126**

Pironneau, Olivier *see* **Mohammadi, Bijan, 2005a:76138**

Prieur, Christophe[2] (*with* de Halleux, Jonathan) Stabilization of a 1-D tank containing a fluid modeled by the shallow water equations. (English summary) **2005d:93115**

Rao, Bopeng *see* **Li, Ta Tsien, 2005h:93018**

Rosier, Lionel Control of the surface of a fluid by a wavemaker. (English summary) **2005h:93091**

Schmidt, E. J. P. Georg *see* **Gugat, Martin et al., 2005a:93017**

Weng, Shi You *see* **Gao, Hai Yin et al.**

Yu, Yong Exact boundary controllability of unsteady flows in open canals. (Chinese. English and Chinese summaries) **2005g:93018**

76B99 None of the above, but in this section

Aldama Rodríguez, Álvaro Alberto *see* **Mercado E., J. R. et al., 2005c:76027**

Antar, Nalan *see* **Moodie, T. B., (2005b:76003)**

Arnold, Ludwig (*with* Chueshov, Igor D.; Ochs, Gunter) Stability and capsizing of ships in random sea—a survey. (English summary) **2005g:76022**

Berger, John A. *see* **Yang, Yong Zhi[2]**

Brambila-Paz, Fernando *see* **Mercado E., J. R. et al., 2005c:76027**

Bridges, Thomas J. (*with* Hydon, Peter E.; Reich, Sebastian) Vorticity and symplecticity in Lagrangian fluid dynamics. (English summary) **2005h:76020**

Chueshov, Igor D. *see* **Arnold, Ludwig et al., 2005g:76022**

Cointe, R. (*with* Fontaine, E.; Molin, B.; Scolan, Y. M.) On energy arguments applied to the hydrodynamic impact force. (English summary) **2005a:76031**

D'Alessio, S. J. D. (*with* Pascal, J. P.; Moodie, T. B.) Thermally enhanced gravity driven flows. (English summary) **2005b:76032**

Dobrovol'skiĭ, I. P. Hydrodynamic phenomena. (Russian. Russian summary)

Fontaine, E. *see* **Cointe, R. et al., 2005a:76031**

Franzese, P. (*with* Zannetti, Luca) A model of dispersion in the unsteady separated shear flow past complex geometries. (English summary) **2005b:76033**

Gulak, Yuriy (*with* Pelz, Richard Bruce) High-symmetry Kida flow: time series analysis and resummation. (English summary) **2005k:76023**

Guzev, M. A. (*with* Koshel', K. V.; Stepanov, D. V.) Different regimes of motion of a spherical cavity with negative external pressure. (Russian)

Holm, Darryl D. Variational principles, geometry and topology of Lagrangian-averaged fluid dynamics. (English summary) **2005d:76009**

Hydon, Peter E. *see* **Bridges, Thomas J. et al., 2005h:76020**

Iglesias Rey, Pedro Luís *see* **Izquierdo Sebastián, Joaquín et al.**

Izquierdo Sebastián, Joaquín (*with* Pérez García, Rafael; Iglesias Rey, Pedro Luís) Mathematical models and methods in the water industry. (English summary)

Kakhiani, V. O. *see* **Kalashnik, M. V. et al., 2005i:76031**

Kalashnik, M. V. (*with* Kakhiani, V. O.; Lominadze, D. G.; Patarashvili, K. I.; Svirkunov, P. N.; Tsakadze, S. D.) Nonlinear isochronous oscillations of a fluid in a paraboloid: theory and experiment. (Russian. Russian summary) **2005i:76031**

Koshel', K. V. *see* **Guzev, M. A. et al.**

Kozlov, Valeriĭ V. (*with* Onishchenko, D. A.) Motion of a body with undeformable shell and variable mass geometry in an unbounded perfect fluid. **2005a:76032**

Lominadze, D. G. *see* **Kalashnik, M. V. et al., 2005i:76031**

Mercado E., J. R. (*with* Aldama Rodríguez, Álvaro Alberto; Brambila-Paz, Fernando) An inverse problem in the Saint-Venant equations. (Spanish. Spanish summary) **2005c:76027**

Molin, B. *see* **Cointe, R. et al., 2005a:76031**

Moodie, T. B. (*with* Antar, Nalan) Nonhydrostatic effects in gravity currents. (English summary) (*see* **2005b:76003**)

— *see also* **D'Alessio, S. J. D. et al., 2005b:76032**

Morgan, Frank Streams of cylindrical water.

Morgulis, A. B. High-frequency asymptotic for the forced periodical flows of an inviscid fluid through a given domain. (English summary) **2005m:76045**

Ochs, Gunter *see* **Arnold, Ludwig et al., 2005g:76022**

Onishchenko, D. A. *see* **Kozlov, Valeriĭ V., 2005a:76032**

Pascal, J. P. *see* **D'Alessio, S. J. D. et al., 2005b:76032**

Patarashvili, K. I. *see* **Kalashnik, M. V. et al., 2005i:76031**

Pelz, Richard Bruce *see* **Gulak, Yuriy, 2005k:76023**

Pérez García, Rafael *see* **Izquierdo Sebastián, Joaquín et al.**

Rasmussen, J. Juul *see* **Ruban, Victor P., 2005a:76033**
Reich, Sebastian *see* **Bridges, Thomas J. et al., 2005h:76020**
Ruban, Victor P. (*with* Rasmussen, J. Juul) Toroidal bubbles with circulation in ideal hydrodynamics: a variational approach. (English summary) **2005a:76033**
Rylov, Yu. A. Hydrodynamic equations for incompressible inviscid fluid in terms of generalized stream function. (English summary) **2005g:76023**
Scolan, Y. M. *see* **Cointe, R. et al., 2005a:76031**
Solodun, O. V. Investigation of forced oscillations in circular cylindrical vessels separated by a diametrical barrier. (Ukrainian. English and Ukrainian summaries)
Stepanov, D. V. *see* **Guzev, M. A. et al.**
Sudakov, S. N. Motion of a body filled with fluid of variable viscosity in the field of a fixed attracting center. (Russian. Russian summary)
Svirkunov, P. N. *see* **Kalashnik, M. V. et al., 2005i:76031**
Tippetts, John R. Definition and properties of a Eulerian 3-terminal gyrator. (English summary)
Tsakadze, S. D. *see* **Kalashnik, M. V. et al., 2005i:76031**
Ungarish, Marius (*with* Zemach, T.) On the slumping of high Reynolds number gravity currents in two-dimensional and axisymmetric configurations. (English summary) **2005f:76027**
Vladīmūrov, V. A. Classical and generalized invariant solutions of the relaxing hydrodynamics equations. (English summary) **2005a:76034**
Vorus, William S. A compliant-hull concept for planning craft wave-impact shock reduction. (English summary) **2005a:76035**
Wu, Zi-Niu A note on the flow equations under space-time transformation. (English summary) **2005c:76028**
Yang, Yong Zhi[2] (*with* Berger, John A.) A new model for a discharging, coupled tank and capillary tube system. (English summary)
Zannetti, Luca *see* **Franzese, P., 2005b:76033**
Zemach, T. *see* **Ungarish, Marius, 2005f:76027**

Items with secondary classifications in 76B99

Abd-El-Malek, Mina B. (*with* Helal, M. M.) Characteristic function method for classification of equations of hydrodynamics of a perfect fluid. (English summary) **2005m:76147**
Allen, C. B. *see* **Barba, L. A. et al., 2005h:76062**
Ata, Riadh (*with* Soulaïmani, Azzeddine) A stabilized SPH method for inviscid shallow water flows. (English summary) **2005g:76093**
Balas, Lale *see* **Özhan, Erdal, (2005c:00015)**
Balmforth, Neil J. *see* **Yizhaq, Hezi et al., 2005e:74038**
Barba, L. A. (*with* Leonard, Anthony; Allen, C. B.) Advances in viscous vortex methods—meshless spatial adaption based on radial basis function interpolation. (English summary) **2005h:76062**
van Brummelen, E. H. Convergence of successive approximation for a free-boundary problem in fluid-structure interaction. (English summary) (*see* **2005b:65003**)
Chashechkin, Yu. D. *see* **Kistovich, A. V., 2005b:76027**
Chertock, Alina (*with* Kurganov, Alexander) On a hybrid finite-volume-particle method. (English summary) **2005i:34007**
Clark, R. L. *see* **Dowell, Earl H. et al., 2005h:74020**
Cox, David E. *see* **Dowell, Earl H. et al., 2005h:74020**
Curtiss, H. C., Jr. *see* **Dowell, Earl H. et al., 2005h:74020**
De Pietri, Roberto *see* **Fateev, V. A. et al., 2005h:45005**
Dias, Frédéric (*with* Vanden-Broeck, Jean-Marc) Two-layer hydraulic falls over an obstacle. (English summary) **2005f:76012**
Dowell, Earl H. (*with* Clark, R. L.; Cox, David E.; Curtiss, H. C., Jr.; Edwards, John W.; Hall, Kenneth C.; Peters, David A.; Scanlan, Robert; Simiu, Emil; Sisto, Fernando; Strganac, Thomas W.) ★ A modern course in aeroelasticity. **2005h:74020**
Durán, Mario (*with* Muga, Ignacio; Nédélec, Jean-Claude) The Helmholtz equation with impedance in a half-plane. (English and French summaries) **2005k:35060**
Durran, Dale R. *see* **Gaberšek, Saša, 2005h:86010**
Dutrifoy, Alexandre Examples of dispersive effects in non-viscous rotating fluids. (English and French summaries) **2005m:35233**
Edwards, John W. *see* **Dowell, Earl H. et al., 2005h:74020**
Ehrendorfer, Martin A vector derivation of the semigeostrophic potential vorticity equation. (English summary) **2005b:86027**
Elaiw, A. M. *see* **Hassanien, I. A. et al.**
Esposito, Raffaele (*with* Pulvirenti, Mario) From particles to fluids. **2005f:82098**
Fateev, V. A. (*with* De Pietri, Roberto; Onofri, E.) Exact and semiclassical approach to a class of singular integral operators arising in fluid mechanics and quantum field theory. (English summary) **2005h:45005**
Gaberšek, Saša (*with* Durran, Dale R.) Gap flows through idealized topography. I. Forcing by large-scale winds in the nonrotating limit. (English summary) **2005h:86010**
Golovin, S. V. Group foliation of Euler equations in nonstationary rotationally symmetrical case. (English summary) **2005d:35011**
Griffies, Stephen M. ★ Fundamentals of ocean climate models. **2005d:86003**
Guha, Partha Applications of Nambu mechanics to systems of hydrodynamical type. II. (English summary) **2005b:37181**
Hall, Kenneth C. *see* **Dowell, Earl H. et al., 2005h:74020**
Han, Hou-de (*with* Wen, Xin[2]) The artificial boundary conditions for numerical simulations of the complex amplitude in a coupled bay-river system. (English summary) **2005a:86004**
Hassanien, I. A. (*with* Salama, Abdelhay Azoz; Elaiw, A. M.) The onset of longitudinal vortices in mixed convection flow over an inclined surface in a porous medium with variable permeability. (English summary)
He, Ji Huan ★ Liuti lixue guangyi bianfen yuanli. (Chinese. Chinese summary) [Generalized variational principles in fluids] **2005g:76095**
Helal, M. M. *see* **Abd-El-Malek, Mina B., 2005m:76147**
Holm, Darryl D. (*with* Marsden, Jerrold E.; Ratiu, Tudor S.) The Euler-Poincaré equations in geophysical fluid dynamics. **2005c:37167**
Iima, Makoto (*with* Yanagita, Tatsuo) Asymmetric motion of a two-dimensional symmetric flapping model. (English summary) **2005m:76208**
Jones, Christopher K. R. T. *see* **Kuznetsov, Leonid Vladislavovich et al., 2005m:37208**
Kahlig, Peter (*with* Matkowski, Janusz) A modified Gołab-Schinzel equation on a restricted domain (with applications to meteorology and fluid mechanics). (English summary) **2005f:39067**
Kambe, Tsutomu ★ Geometrical theory of dynamical systems and fluid flows. **2005m:37207**
Kamotskiĭ, V. V. (*with* Lebeau, Gilles) On 2D Rayleigh-Taylor instabilities. **2005k:76049**
Karapetyan, A. V. (*with* Selyutskaya, O. V.) On the steady motions of a heavy fluid-filled ellipsoid on a plane with friction. (Russian. English and Russian summaries) **2005f:70008**
Kelliher, James P. The inviscid limit for two-dimensional incompressible fluids with unbounded vorticity. (English summary) **2005g:76007**
Khesin, Boris A. (*with* Michor, Peter W.) The flow completion of the Burgers equation. (English summary) **2005h:37184**
— Topological fluid dynamics. **2005h:37206**
(Kibel, I. A.) *see* **Zeytounian, Radyadour Kh., 2005k:86016**
Kirwan, A. D., Jr. *see* **Kuznetsov, Leonid Vladislavovich et al., 2005m:37208**
Kistovich, A. V. (*with* Chashechkin, Yu. D.) Geometrization of vortex and spiral flows in an ideal homogeneous fluid. (English summary) **2005b:76027**
Kononov, Yu. N. On the stability of equilibrium of a physical pendulum containing a multilayer fluid separated by elastic plates. (Russian. Russian summary) **2005k:70022**
Küçükarslan, Semih An exact truncation boundary condition for incompressible-unbounded infinite fluid domains. (English summary) **2005h:76055**
Kurganov, Alexander *see* **Chertock, Alina, 2005i:34007**
Kuznetsov, G. V. On the geometric theory of the steady motion of a fluid in a subprojective space. (Russian. English and Russian summaries)
Kuznetsov, Leonid Vladislavovich (*with* Jones, Christopher K. R. T.; Toner, M.; Kirwan, A. D., Jr.) Assessing coherent feature kinematics in ocean models. (English summary) **2005m:37208**
Kuznetsov, N. G. On the motion of a floating body supported by an air cushion. (English summary) (*see* **2005b:00020**)
Lebeau, Gilles *see* **Kamotskiĭ, V. V., 2005k:76049**
Leonard, Anthony *see* **Barba, L. A. et al., 2005h:76062**
Lezhnev, V. G. The stream function for the plane flow problem, Robin's potential and the exterior Dirichlet problem. (Russian) **2005b:35229**
Li, Y. Charles (*with* Shvydkoy, Roman) Isospectral theory of Euler equations. (English summary) **2005a:37111**
Lim, Chjan C. (*with* Nebus, Joseph) The spherical model of logarithmic potentials as examined by Monte Carlo methods. (English summary) **2005f:76079**
Lions, Pierre-Louis (*with* Masmoudi, Nader) Homogenization of the Euler system in a 2D porous medium. (English and French summaries) **2005k:35020**
Lukáčová-Medvid'ová, M. (*with* Saibertová, Jitka; Warnecke, Gerald G.; Zahaykah, Yousef) On evolution Galerkin methods for the Maxwell and the linearized Euler equations. (English summary) **2005h:65168**
Marsden, Jerrold E. *see* **Holm, Darryl D. et al., 2005c:37167**
Masmoudi, Nader Hydrodynamic limits of the Boltzmann equation. (English summary) **2005c:76002**
— *see also* **Lions, Pierre-Louis, 2005k:35020**
Matkowski, Janusz *see* **Kahlig, Peter, 2005f:39067**
(McDougall, Trevor J.) *see* **Griffies, Stephen M., 2005d:86003**
Michor, Peter W. *see* **Khesin, Boris A., 2005h:37184**
Muga, Ignacio *see* **Durán, Mario et al., 2005k:35060**
Nebus, Joseph *see* **Lim, Chjan C., 2005f:76079**
Nédélec, Jean-Claude *see* **Durán, Mario et al., 2005k:35060**
Onofri, E. *see* **Fateev, V. A. et al., 2005h:45005**
Özhan, Erdal (*with* Balas, Lale) Simulation of water exchange in enclosed water bodies. (English summary) (*see* **2005c:00015**)
Peters, David A. *see* **Dowell, Earl H. et al., 2005h:74020**
Polthier, Konrad (*with* Preuß, Eike) Identifying vector field singularities using a discrete Hodge decomposition. (English summary) **2005a:37031**
Preston, Stephen C. For ideal fluids, Eulerian and Lagrangian instabilities are equivalent. **2005f:37165**
Preuß, Eike *see* **Polthier, Konrad, 2005a:37031**
Provenzale, Antonello *see* **Yizhaq, Hezi et al., 2005e:74038**
Pulvirenti, Mario *see* **Esposito, Raffaele, 2005f:82098**
Rademacher, S. *see* **Steinebach, G. et al., 2005b:86018**
Ratiu, Tudor S. *see* **Holm, Darryl D. et al., 2005c:37167**
Rentrop, P. *see* **Steinebach, G. et al., 2005b:86018**
Rong, Ping-Ping (*with* Waugh, Darryn W.) Vacillations in a shallow-water model of the stratosphere. (English summary) **2005b:86033**
Saibertová, Jitka *see* **Lukáčová-Medvid'ová, M. et al., 2005h:65168**
Salama, Abdelhay Azoz *see* **Hassanien, I. A. et al.**
Scanlan, Robert *see* **Dowell, Earl H. et al., 2005h:74020**
Scholle, Markus Construction of Lagrangians in continuum theories. (English summary) **2005g:74012**
Schulz, Martin *see* **Steinebach, G. et al., 2005b:86018**
Selyutskaya, O. V. *see* **Karapetyan, A. V., 2005f:70008**
Shvydkoy, Roman (*with* Vishik, Misha) On spectrum of the linearized 3D Euler equation. (English summary) **2005m:76086**
— *see also* **Li, Y. Charles, 2005a:37111**
Simiu, Emil *see* **Dowell, Earl H. et al., 2005h:74020**
Sisto, Fernando *see* **Dowell, Earl H. et al., 2005h:74020**
Soulaïmani, Azzeddine *see* **Ata, Riadh, 2005g:76093**
Steinebach, G. (*with* Rademacher, S.; Rentrop, P.; Schulz, Martin) Mechanisms of coupling in river flow simulation systems. (English summary) **2005b:86018**
Strganac, Thomas W. *see* **Dowell, Earl H. et al., 2005h:74020**
Swaters, Gordon On the meridional flow of source-driven abyssal currents along a continental slope. (English summary) (*see* **2005b:76003**)
Tkacheva, L. A. The behavior of a floating elastic plate under vibrations of a bottom segment. (Russian. Russian summary) **2005j:74026**

Tolstukha, A. S. The flow of an ideal incompressible fluid through lattices of arbitrary blades. (Russian. English summary) **2005f:76059**
Toner, M. *see* **Kuznetsov, Leonid Vladislavovich et al., 2005m:37208**
Vanden-Broeck, Jean-Marc *see* **Dias, Frédéric, 2005f:76012**
Vishik, Misha *see* **Shvydkoy, Roman, 2005m:76086**
Warnecke, Gerald G. *see* **Lukáčová-Medvid'ová, M. et al., 2005h:65168**
Waugh, Darryn W. *see* **Rong, Ping-Ping, 2005b:86033**
Wen, Xin² *see* **Han, Hou-de, 2005a:86004**
Yanagita, Tatsuo *see* **Iima, Makoto, 2005m:76208**
Yizhaq, Hezi (*with* Balmforth, Neil J.; Provenzale, Antonello) Blown by wind: nonlinear dynamics of aeolian sand ripples. (English summary) **2005e:74038**
Zahaykah, Yousef *see* **Lukáčová-Medvid'ová, M. et al., 2005h:65168**
Zeytounian, Radyadour Kh. Weather prediction as a problem in fluid dynamics (on the 100th birthday of I. A. Kibel). (Russian. Russian summary) **2005k:86016**

Items listed otherwise than by author

Anniversary:
Birth of Kibel, I. A. *see* **Zeytounian, Radyadour Kh., 2005k:86016**

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Zeytounian, Radyadour Kh. ★ Theory and applications of viscous fluid flows. **2005a:76036**

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Brandolese, Lorenzo Atomic decomposition for the vorticity of a viscous flow in the whole space. (English summary) **2005j:76025**
Busuioc, Adriana Valentina (*with* Ratiu, Tudor S.) A fluid problem with Navier-slip boundary conditions. (English summary) **2005h:76021**
Consiglieri, L. (*with* Rodrigues, José-Francisco) On stationary flows with energy dependent nonlocal viscosities. (English and Russian summaries) **2005b:76034**
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Dupuy, D. (*with* Panasenko, Grigory; Stavre, R.) Asymptotic methods for micropolar fluids in a tube structure. (English summary) **2005b:76035**
Fefferman, Charles Louis *see* **Córdoba, Diego et al., 2005i:76032**
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de la Llave, Rafael *see* **Córdoba, Diego et al., 2005i:76032**
Nakamura, Ken-Ichi (*with* Okamoto, Hisashi; Yagisita, Hiroki) Blow-up solutions appearing in the vorticity dynamics with linear strain. (English summary) **2005a:76037**
Okamoto, Hisashi *see* **Nakamura, Ken-Ichi et al., 2005a:76037**
Panasenko, Grigory *see* **Dupuy, D. et al., 2005b:76035**
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Rodrigues, José-Francisco *see* **Consiglieri, L., 2005b:76034**
Sinaĭ, Ya. G. Mathematical hydrodynamics.
Stavre, R. *see* **Dupuy, D. et al., 2005b:76035**
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Yagisita, Hiroki *see* **Nakamura, Ken-Ichi et al., 2005a:76037**
Zhang, Linghai On the modified Navier-Stokes equations in n-dimensional spaces. **2005j:76027**

Items with secondary classifications in 76D03

Abedini, Yoosofali *see* **Eshraghi, Homayoon, 2005b:76025**
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Ait Hadi, Khalid (*with* El Bansami, My Hafid) On the second order slip Reynolds equation with molecular dynamics: existence and uniqueness. (English summary) **2005d:76013**
Alame, Wisam (*with* Zajączkowski, Wojciech M.) Global existence of solutions for incompressible magnetohydrodynamic equations. (English summary)
— On existence of solutions for the nonstationary Stokes system with boundary slip conditions. (English summary) **2005m:35230**
Alami-Idrissi, A. (*with* Khabid, S.) Regularity properties of some Stokes operators in an infinite strip. (English summary)
Al'beverio, S. (*with* Ferrario, B.) Uniqueness of solutions of the stochastic Navier-Stokes equation with invariant measure given by the enstrophy. (English summary) **2005b:60151**
Amann, Herbert Nonhomogeneous Navier-Stokes equations in spaces of low regularity. **2005e:35180**
— Navier-Stokes equations with nonhomogeneous Dirichlet data. (English summary) **2005f:35235**
Andreucci, Daniele (*with* Caruso, Giovanni; DiBenedetto, Emmanuele) Ill-posed Hele-Shaw flows. **2005c:76038**
Ansini, Lidia (*with* Giacomelli, Lorenzo) Doubly nonlinear thin-film equations in one space dimension. (English summary) **2005e:35106**
Antontsev, Stanislav (*with* Gonçalves, César; Meirmanov, Anvarbek) Exact estimates for the classical solutions to the free-boundary problem in the Hele-Shaw cell. (English summary) **2005e:35257**
— (*with* Meirmanov, Anvarbek; Yurinskiĭ, V. V.) Weak solutions for a well-posed Hele-Shaw problem. (English and Italian summaries) **2005f:35330**
Avrin, Joel Global existence and regularity for the Lagrangian averaged Navier-Stokes equations with initial data in $H^{1/2}$. (English summary) **2005k:35309**
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Bayada, Guy (*with* Chambat, M.; Cid, B.; Vázquez Cendón, C.) On the existence of solution for a nonhomogeneous Stokes-rod coupled problem. (English summary) **2005h:35276**
Beirão da Veiga, Hugo A note on the smoothness of the solutions to the Navier-Stokes equations. **2005b:35215**
— On the regularity of flows with Ladyzhenskaya shear-dependent viscosity and slip or nonslip boundary conditions. (English summary) **2005k:35329**
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van den Berg, Jan Bouwe (*with* Bowen, Mark; King, John Robert; El-Sheikh, M. M. A.) The self-similar solution for draining in the thin film equation. (English summary) **2005i:76008**
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Boldrini, José Luiz (*with* Vaz, Cristina Lúcia Dias) Existence and regularity of solutions of a phase field model for solidification with convection of pure materials in two dimensions. (English summary) **2005b:35302**
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Bunoiu, Renata (*with* Kesavan, Srinivasan) Fluide de Bingham dans une couche mince. (French summary) [Bingham fluid in a thin layer]
— (*with* Kesavan, Srinivasan) Asymptotic behaviour of a Bingham fluid in thin layers. (English summary) **2005b:76007**
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Challal, S. (*with* Lyaghfouri, A.) A filtration problem through a heterogeneous porous medium. (English summary) **2005c:76083**
Chambat, M. *see* **Bayada, Guy et al., 2005h:35276**
Charve, Frédéric Global well-posedness and asymptotics for a geophysical fluid system. (English summary) **2005i:76116**
Chemin, Jean-Yves Propriétés lagrangiennes des solutions du système de Navier-Stokes incompressible. (English and French summaries) [Lagrangian properties of the solutions of the incompressible Navier-Stokes system] **2005k:35311**
Chen, Da Duan (*with* He, You Hua) On the well-posedness of the initial value problem of non-static rotating fluid. (Chinese. English and Chinese summaries) **2005h:76082**
Cho, Yonggeun (*with* Kim, Hyunseok) Unique solvability for the density-dependent Navier-Stokes equations. (English summary) **2005k:35312**
Chueshov, Igor D. (*with* Raugel, Geneviève; Rekalo, Andrey M.) Interface boundary value problem for the Navier-Stokes equations in thin two-layer domains. (English summary) **2005h:35268**
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Consiglieri, L. (*with* Rodrigues, José-Francisco; Shilkin, T.) On the Navier-Stokes equations with the energy-dependent nonlocal viscosities. (English and Russian summaries) **2005k:35313**
— (*with* Rodrigues, José-Francisco; Shilkin, T.) A limit model for unidirectional non-Newtonian flows with nonlocal viscosity. (English summary) **2005m:76001**
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Diening, Lars (*with* Růžička, Michael) Calderón-Zygmund operators on generalized Lebesgue spaces $L^{p(\cdot)}$ and problems related to fluid dynamics. (English summary) **2005g:42054**
Dinaburg, E. I. (*with* Sinaĭ, Ya. G.) Existence and uniqueness of solutions of a quasilinear approximation of the three-dimensional Navier-Stokes system. (Russian. Russian summary) **2005g:35231**
Dindoš, Martin (*with* Mitrea, Marius) The stationary Navier-Stokes system in nonsmooth manifolds: the Poisson problem in Lipschitz and C^1 domains. (English summary) **2005f:35239**
Dmitrienko, V. T. *see* **Zvyagin, Viktor, 2005b:35233**
Dreyfuss, Pierre (*with* Hungerbühler, Norbert) Navier-Stokes systems with quasimonotone viscosity tensor. (English summary)
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El-Sheikh, M. M. A. *see* **van den Berg, Jan Bouwe et al., 2005i:76008**
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Èskin, L. D. Equations that describe the dynamics of a non-Newtonian fluid with the Reiner-Rivlin rheological law. I. Group analysis. (Russian) **2005c:76006**
Fang, Ming¹ *see* **Gilbert, Robert P., 2005h:76026**
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Ferrario, B. *see* **Al'beverio, S., 2005b:60151**
Franta, M. (*with* Málek, Josef; Rajagopal, Kumbakonam) On steady flows of fluids with

pressure- and shear-dependent viscosities. (English summary) **2005k:76007**

Frehse, Jens (*with* Málek, Josef; Steinhauer, Mark) On analysis of steady flows of fluids with shear-dependent viscosity based on the Lipschitz truncation method. (English summary) **2005c:76007**

Fröhlich, Andreas[2] Solutions of the Navier-Stokes initial value problem in weighted L^q-spaces. (English summary) **2005i:35209**

Fuchs, Martin[2] *see* **Bildhauer, Michael**, **2005f:35253**

Furati, Khaled M. (*with* Kirane, Mokhtar; Tatar, Nasser-Eddine) Existence and asymptotic behavior for a convection problem. (English summary) **2005m:76164**

Galdi, Giovanni P. (*with* Simader, Christian G.; Sohr, H.) A class of solutions to stationary Stokes and Navier-Stokes equations with boundary data in $W^{-1/q,q}$. (English summary) **2005k:35315**

— *see also* **Contributions to current challenges in mathematical fluid mechanics**, **2005c:35003**

Gallay, Thierry Équations de Navier-Stokes dans le plan avec tourbillon initial mesure. [Two-dimensional Navier-Stokes equations with measure-valued initial vorticity] **2005k:35316**

Germain, Pierre Solutions globales d'énergie infinie de l'équation de Navier-Stokes 2D. (English and French summaries) [Global solutions of infinite energy for the 2D Navier-Stokes equation] **2005k:35317**

Giacomelli, Lorenzo *see* **Ansini, Lidia**, **2005e:35106**

Giga, Yoshikazu (*with* Sawada, Okihiro) On regularizing-decay rate estimates for solutions to the Navier-Stokes initial value problem. (English summary) **2005f:35241**

Gilbert, Robert P. (*with* Fang, Ming[1]) An obstacle problem in non-isothermal and non-Newtonian Hele-Shaw flows. (English summary) **2005h:76026**

Golse, François (*with* Saint-Raymond, Laure) The Navier-Stokes limit of the Boltzmann equation for bounded collision kernels. (English summary) **2005f:76003**

Gonçalves, César *see* **Antontsev, Stanislav et al.**, **2005e:35257**

Grujić, Zoran (*with* Ruzmaikina, Anastasia) Interpolation between algebraic and geometric conditions for smoothness of the vorticity in the 3D NSE. (English summary) **2005g:35233**

— *see also* **Ruzmaikina, Anastasia**, **2005e:35185**

Grün, Günther Droplet spreading under weak slippage—existence for the Cauchy problem. (English summary) **2005i:35109**

Guan, Zhicheng (*with* Primicerio, Mario) Shear-degradation of complex fluids: a global existence result. (English summary) **2005a:35132**

Guillén-González, F. (*with* Rodríguez Bellido, María Angeles; Rojas-Medar, Marko A.) Hydrostatic Stokes equations with non-smooth data for mixed boundary conditions. (English and French summaries) **2005h:35281**

— Density-dependent incompressible fluids with non-Newtonian viscosity. (English summary) **2005f:35257**

Gunzburger, Max D. (*with* Ladyzhenskaya, Ol′ga Aleksandrovna; Peterson, Janet S.) On the global unique solvability of initial-boundary value problems for the coupled modified Navier-Stokes and Maxwell equations. (English summary) **2005h:35269**

Hamouda, Makram (*with* Rakotoson, Jean Michel; Verbeke, Cédric) Qualitative properties of some equations related to fluid mechanics. (English summary) **2005g:35242**

He, Cheng (*with* Miyakawa, Tetsuro) On L^1-summability and asymptotic profiles for smooth solutions to Navier-Stokes equations in a 3D exterior domain. (English summary) **2005d:35200**

He, Juan Xiong (*with* Yang, Xiu Qun; Yu, Zhi Hao) Well-posedness of the Cauchy problem for barotropic equations with orographic forcing. II. The viscous case. (Chinese. English and Chinese summaries) **2005f:76105**

He, Xinyu Existence of Leray's self-similar solutions of the Navier-Stokes equations in $\mathscr{D} \subset \mathbb{R}^3$. (English summary) **2005b:35220**

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Hishida, Toshiaki The nonstationary Stokes and Navier-Stokes flows through an aperture. (English summary) **2005f:35242**

Hlomuka, Joe The linearized non-stationary problem for the permeable boundary Navier-Stokes flows. (English summary)

Hmidi, Taoufik Régularité höldérienne des poches de tourbillon visqueuses. (English and French summaries) [Hölderian regularity of viscous vortex patches] **2005h:35282**

Hoppe, Ronald H. W. (*with* Litvinov, V. G.) Problems on electrorheological fluid flows. (English summary) **2005i:76121**

Hu, Changbing Asymptotic analysis of the primitive equations under the small depth assumption. (English summary) **2005k:76135**

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Jiu, Quan Sen (*with* Xin, Zhou Ping) Some regularity criteria on suitable weak solutions of the 3-D incompressible axisymmetric Navier-Stokes equations. (English summary) **2005i:35210**

Ju, Ning Existence and uniqueness of the solution to the dissipative 2D quasi-geostrophic equations in the Sobolev space. (English summary) **2005h:76084**

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— On regularity of stationary Stokes and Navier-Stokes equations near boundary. (English summary) **2005b:35222**

— Unbounded normal derivative for the Stokes system near boundary. (English summary) **2005h:35271**

Karazeeva, N. A. Solvability of initial boundary value problems for equations describing motions of linear viscoelastic fluids. **2005m:35238**

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Katz, Nets Hawk (*with* Pavlović, Nataša) Finite time blow-up for a dyadic model of the Euler equations. (English summary) **2005h:35284**

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Kessab, Amor Gevrey regularity for some P.D.E. governing the motion of a micropolar fluid in the three dimensional case. (English summary)

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Kozono, Hideo (*with* Ogawa, Takayoshi; Taniuchi, Yasushi) Navier-Stokes equations in the Besov space near L^∞ and BMO. (English summary) **2005f:35244**

— (*with* Yatsu, Naoki) Extension criterion via two-components of vorticity on strong solutions to the 3D Navier-Stokes equations. (English summary) **2005b:35223**

Kračmar, Stanislav (*with* Penel, Patrick) Variational properties of a generic model equation in exterior 3D domains. (English summary) **2005k:35081**

Kreiss, Heinz-Otto (*with* Lorenz, Jens) ★ Initial-boundary value problems and the Navier-Stokes equations. **2005c:35229**

— (*with* Lorenz, Jens) A priori estimates in terms of the maximum norm for the solutions of the Navier-Stokes equations. (English summary) **2005f:35245**

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Ladyzhenskaya, Ol′ga Aleksandrovna *see* **Gunzburger, Max D. et al.**, **2005h:35269**

Langa, José A. (*with* Real Anguas, José; Simon, Jacques) Existence and regularity of the pressure for the stochastic Navier-Stokes equations. (English summary) **2005h:60187**

Lee, Jihoon Generic solvability for the 3-D Navier-Stokes equations with nonregular force. (English summary) **2005e:35184**

— *see also* **Chae, Dongho**, **2005g:35229**

Lei, Zhen[1] Blow-up of classical solutions to the ideal magnetohydrodynamic equations with initial disturbances. (Chinese. English and Chinese summaries) **2005m:76189**

Lemarié-Rieusset, Pierre-Gilles Nouvelles remarques sur l'analyticité des solutions milds des équations de Navier-Stokes dans $\mathbb{R}^3$. (English and French summaries) [Further remarks on the analyticity of mild solutions for the Navier-Stokes equations in $\mathbb{R}^3$] **2005a:35222**

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Li, Tiejun (*with* Zhang, Hui[1]; Zhang, Ping Wen) Local existence for the dumbbell model of polymeric fluids. (English summary) **2005b:76009**

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Mogilevskiĭ, I. Sh. (*with* Zakharova, I. V.) The stationary flows for a certain type of non-Newtonian fluids. (English summary) **2005j:76002**

Molinet, Luc (*with* Talhouk, Raafat) On the global and periodic regular flows of viscoelastic fluids with a differential constitutive law. (English summary) **2005d:76002**

— (*with* Talhouk, Raafat) Existence and stability results for 3-D regular flows of viscoelastic fluids of White-Metzner type. (English summary) **2005e:76007**

Monakhov, V. N. (*with* Zhidkova, M. I.) Existence theorems for unsteady flows of reacting mixtures. (Russian) **2005j:35178**

Mucha, Piotr Bogusław The Navier-Stokes equations and the maximum principle. **2005k:35320**

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Nakhi, Yasmin *see* **Kalla, Shyam L.**, **2005b:76011**

Nalimov, V. I. Estimates for the maximum modulus of solutions of the system of Burgers equations. (Russian. Russian summary) **2005h:35273**

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— *see also* **Videman, Juha H. et al.**, **2005h:76023**

Neustupa, Jiří (*with* Novotný, Antonín; Penel, Patrick) An interior regularity of a weak solution to the Navier-Stokes equations in dependence on one component of velocity. **2005d:35204**

— The boundary regularity of a weak solution of the Navier-Stokes equation and its connection to the interior regularity of pressure. (English summary) **2005a:35223**

— (*with* Penel, Patrick) On the regularity up to the boundary in the theory of the Navier-Stokes equations with generalized impermeability conditions. (English and French summaries) **2005h:35286**

— *see also* **Bellout, Hamid et al.**, **2005f:35236**

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Nishida, Takaaki (*with* Teramoto, Yoshiaki; Yoshihara, Hideaki) Global in time behavior of viscous surface waves: horizontally periodic motion. **2005f:35246**

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— *see also* **Kozono, Hideo et al.**, **2005f:35244**

Ortegón Gallego, Francisco Regularization by monotone perturbations of the hydrostatic approximation of Navier-Stokes equations. (English summary) **2005j:35171**

Padula, Mariarosaria (*with* Solonnikov, Vsevolod Alekseevich) On the global existence

of nonsteady motions of a fluid drop and their exponential decay to a uniform rigid rotation. **2005g:76029**

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Petcu, Madalina Gevrey class regularity for the primitive equations in space dimension 2. (English summary) **2005g:35248**

— (*with* Temam, Roger; Wirosoetisno, D.) Renormalization group method applied to the primitive equations. (English summary) **2005m:35242**

Peterson, Janet S. *see* **Gunzburger, Max D. et al.**, **2005h:35269**

Pileckas, K. (*with* Zaleskis, L.) On a steady three-dimensional noncompact free boundary value problem for the Navier-Stokes equations. (English and Russian summaries) **2005g:35308**

— (*with* Socolowsky, J.) Viscous two-fluid flows in perturbed unbounded domains. (English summary) **2005m:35319**

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Repin, S. I. Local a posteriori estimates for the Stokes problem. (English and Russian summaries) **2005j:35180**

Robertson, Anne M. Attainability of steady viscometric flows. **2005c:76012**

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Ul′yanov, O. N. A class of viscous fluid flows. (English summary) **2005d:76012**
Vande Voorde, John (*with* Vierendeels, Jan; Dick, Erik) Flow simulations in rotary volumetric pumps and compressors with the fictitious domain method. (English summary)
Veroy, K. (*with* Patera, Anthony T.) Certified real-time solution of the parametrized steady incompressible Navier-Stokes equations: rigorous reduced-basis a posteriori error bounds. (English summary) **2005j:76029**
Videman, Juha H. (*with* Nazarov, Sergei A.; Sequeira, A.) Asymptotic modelling of a piston with a completely wetted surface. (English and Russian summaries) **2005h:76023**
Vierendeels, Jan *see* **Vande Voorde, John et al.**
Vuik, C. *see* **Li, Chun Guang**, 2005a:76046
Wang, He Yuan (*with* Li, Kai Tai) Numerical approximation of transcritical simple bifurcation point of the Navier-Stokes equations. (English summary) **2005c:76032**
Wightman, Jennifer L. *see* **Klouček, Petr et al.**, 2005k:76025
Xin, Zhou Ping *see* **Jiu, Quan Sen**, 2005g:76026
Xu, Zhen Yuan[2] (*with* Guo, Liu Xiao) Synchronization of two high-frequency coupled 2D Navier-Stokes equations. (Chinese. English and Chinese summaries)
Yoshihara, Hideaki *see* **Nishida, Takaaki et al.**, 2005m:76049

Items with secondary classifications in 76D05

Abe, Takayuki[2] On a resolvent estimate of the Stokes equation with Neumann-Dirichlet-type boundary condition on an infinite layer. (English summary) **2005c:35236**
Abels, Helmut The initial-value problem for the Navier-Stokes equations with a free surface in L^q-Sobolev spaces. (English summary) **2005j:35164**
Abide, Stéphane (*with* Viazzo, Stéphane) A 2D compact fourth-order projection decomposition method. (English summary) **2005k:76092**
Abidi, H. (*with* Danchin, Raphaël) Optimal bounds for the inviscid limit of Navier-Stokes equations. (English summary) **2005c:35227**
Abo-Eldahab, Emad M. (*with* El Aziz, Mohamed A.) Flow and heat transfer in a micropolar fluid past a stretching surface embedded in a non-Darcian porous medium with uniform free stream. (English summary) **2005g:76113**
Abraham, Feby (*with* Behr, Marek; Heinkenschloss, Matthias) The effect of stabilization in finite element methods for the optimal boundary control of the Oseen equations. (English summary) **2005g:49056**
Adams, Nikolaus A. *see* **Schlatter, P. et al.**, 2005k:76102
Agoshkov, V. I. Iterative processes for some boundary value problems of hydrodynamics. (English summary) **2005c:76070**
Agrachev, Andrei A. (*with* Sarychev, Andrei V.) Controllability for the Navier-Stokes equation with small control. (Russian) **2005h:93004**
Akimenko, V. V. (*with* Cheremnykh, O. K.) Modeling rotational flows on the background of a two-dimensional convective heat and mass transfer process. (Russian. English, Russian and Ukrainian summaries) **2005i:76039**
Akulenko, L. D. (*with* Kumakshev, S. A.) Bifurcation of a viscous fluid flow in a plane diffusor. (Russian)
Alami-Idrissi, A. (*with* Khabid, S.) Regularity properties of some Stokes operators in an infinite strip. (English summary)
Albarreal Núñez, Isidoro I. (*with* Calzada Canalejo, M. Carmen; Cruz Soto, José Luis; Fernández Cara, Enrique; Galo Sánchez, José R.; Marín Beltrán, Mercedes) Time and space parallelization of the Navier-Stokes equations. (English summary) **2005k:65162**
— *see also* **Galo, José R. et al.**
Al′beverio, S. (*with* Belopol′skaya, Ya. I.) Probabilistic approach to hydrodynamic equations. (English summary) **2005g:76096**
— (*with* Ferrario, B.) Invariant measures of Lévy-Khinchine type for 2D fluids. (English summary) **2005e:76067**
— (*with* Ferrario, B.) Uniqueness of solutions of the stochastic Navier-Stokes equation with invariant measure given by the enstrophy. (English summary) **2005b:60151**
Al-Enezi, Suad *see* **Smaoui, Nejib**, 2005b:37205
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Amann, Herbert Nonhomogeneous Navier-Stokes equations in spaces of low regularity. **2005e:35180**
— Navier-Stokes equations with nonhomogeneous Dirichlet data. (English summary) **2005f:35235**
Ammar-Khodja, Farid (*with* dos Santos, Marcelo Martins) 2D density-dependent Leray's problem for inhomogeneous fluids. (English summary) **2005k:35328**
Araki, Takahiro *see* **Kanayama, Hiroshi et al.**
Argyriadi, K. (*with* Serifi, K.; Bontozoglou, V.) Nonlinear dynamics of inclined films under low-frequency forcing. (English summary) **2005b:76014**
Arnol′d, M. D. (*with* Bakhtin, Yu. Yu.; Dinaburg, E. I.) Regularity of solutions of the Navier-Stokes system on a plane. (Russian)
Asghar, Saleem *see* **Mohyuddin, Muhammad R. et al.**, 2005a:76132
Asikainen, Joonas *see* **Werder, Thomas et al.**, (2005d:65007)
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Avrin, Joel Global existence and regularity for the Lagrangian averaged Navier-Stokes equations with initial data in $H^{1/2}$. (English summary) **2005k:35309**
Awanou, Gerard (*with* Lai, Ming-Jun) Trivariate spline approximations of 3D Navier-Stokes equations. (English summary) **2005m:65015**
Azerad, Pascal (*with* Bänsch, Eberhard) Quasi-stability of the primary flow in a cone and plate viscometer. (English summary) **2005d:35198**
Bae, Hyeong-Ohk (*with* Roh, Jaiok) Existence of solutions of the g-Navier-Stokes equations. (English summary) **2005a:35221**
Bakhtin, Yu. Yu. *see* **Arnol′d, M. D. et al.**
Balasuriya, Sanjeeva (*with* Mezić, Igor; Jones, Christopher K. R. T.) Weak finite-time Melnikov theory and 3D viscous perturbations of Euler flows. (English summary) **2005k:37200**
Balint, A. M. *see* **Balint, Şt.**, 2005g:80004
Balint, Şt. (*with* Balint, A. M.) Flow field, temperature, and dopant concentration evolution in a Bridgman-Stockbarger crystal growth system in a strictly zero-gravity and a low-gravity environment. (English summary) **2005g:80004**
Bänsch, Eberhard *see* **Azerad, Pascal**, 2005d:35198
Barba, L. A. (*with* Leonard, Anthony; Allen, C. B.) Advances in viscous vortex methods—meshless spatial adaption based on radial basis function interpolation. (English summary) **2005h:76062**
Barbu, Viorel (*with* Da Prato, Giuseppe; Debussche, Arnaud) Essential m-dissipativity of Kolmogorov operators corresponding to periodic 2D-Navier Stokes equations. (English and Italian summaries) **2005h:35379**
— (*with* Triggiani, Roberto) Internal stabilization of Navier-Stokes equations with finite-dimensional controllers. (English summary) **2005k:93169**
— (*with* Da Prato, Giuseppe; Debussche, Arnaud) The Kolmogorov equation associated to the stochastic Navier-Stokes equations in 2D. (English summary) **2005k:60190**
Basurto, M. (*with* Tebaldi, Claudio[1]) Characterization of time periodic behaviour by proper orthogonal decomposition. (English summary) (*see* **2005c:00016**)
Bechtel, Stephen E. (*with* Rooney, Francis J.; Wang, Qi[2]) A thermodynamic definition of pressure for incompressible viscous fluids. (English summary)
Becker, Roland (*with* Rannacher, Rolf) Error control for model reduction by discretization in optimal control of flows. **2005e:76039**
— (*with* Braack, Malte) A two-level stabilization scheme for the Navier-Stokes equations. (English summary) **2005k:65236**
Behr, Marek *see* **Abraham, Feby et al.**, 2005g:49056
Beirão da Veiga, Hugo A note on the smoothness of the solutions to the Navier-Stokes equations. **2005b:35215**
— On the regularity of flows with Ladyzhenskaya shear-dependent viscosity and slip or nonslip boundary conditions. (English summary) **2005k:35329**
Belk, Michaël (*with* Vol′pert, Vit. A.) Modeling of heat explosion with convection. (English summary) **2005a:80004**
Bellout, Hamid (*with* Neustupa, Jiří; Penel, Patrick) On the Navier-Stokes equation with boundary conditions based on vorticity. (English summary) **2005f:35236**
Belopol′skaya, Ya. I. *see* **Al′beverio, S.**, 2005g:76096
Ben-Artzi, Matania *see* **Fishelov, D. et al.**, (2005g:65008)
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Bermúdez, Blanca *see* **Nicolás, Alfredo**, 2005m:76165
Berselli, Luigi C. (*with* Grisanti, Carlo R.) On the consistency of the rational large eddy simulation model. (English summary) **2005e:76055**
— (*with* Manfrin, Renato) On a theorem by Sohr for the Navier-Stokes equations. (English summary) **2005b:35216**
Bible, S. A. (*with* McDonough, James) Basins of attraction of the two-dimensional "poor man's Navier-Stokes equation". (English summary)
— *see also* **McDonough, James et al.**, 2005f:76057
Bichir, Cătălin Liviu ★ Stabilitate hidrodinamică teoretică şi numerică. (Romanian) [Theoretical and numerical hydrodynamical stability] **2005c:76043**
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Blasco, Jordi (*with* Codina, Ramon) Error estimates for an operator-splitting method for incompressible flows. (English summary) **2005d:65131**
Blyth, M. G. (*with* Pozrikidis, C.) Effect of inertia on the Marangoni instability of two-layer channel flow. II. Normal-mode analysis. (English summary) **2005h:76035**
Boacă, Tudor *see* **Pascu, Mihai**, 2005c:35244
Bochev, Pavel B. (*with* Gunzburger, Max D.; Shadid, John N.) On inf-sup stabilized finite element methods for transient problems. (English summary) **2005e:65128**
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Boivin, Sylvain *see* **Perron, Sébastien et al.**, 2005d:76027
Bokor, Rózsa Horváth *see* **Bulut, Hasan et al.**, 2005a:76118

Boldrini, José Luiz (*with* Vaz, Cristina Lúcia Dias) Existence and regularity of solutions of a phase field model for solidification with convection of pure materials in two dimensions. (English summary) **2005b:35302**
— *see also* **Planas, Gabriela**, **2005h:35177** *and* **2005k:35407**
Boncuţ, Mioara Finite element approximation of the Navier-Stokes equation. (English summary) **2005j:65136**
Bontozoglou, V. *see* **Argyriadi, K. et al.**, **2005b:76014**
Bouchut, François (*with* Golse, François; Pulvirenti, Mario) ★ Kinetic equations and asymptotic theory. **2005d:82102**
Boughanim, Fouad (*with* Boukrouche, Mahdi; Smaoui, Hassan) Asymptotic behavior of a non-Newtonian flow with stick-slip condition. (English summary) (*see* **2005i:35003**)
Boukrouche, Mahdi (*with* Łukaszewicz, Grzegorz) An upper bound on the attractor dimension of a 2D turbulent shear flow in lubrication theory. (English summary) **2005h:37191**
— *see also* **Boughanim, Fouad et al.**, (**2005i:35003**)
Boyer, Franck (*with* Chupin, Laurent; Fabrie, Pierre) Numerical study of viscoelastic mixtures through a Cahn-Hilliard flow model. (English summary) **2005c:76011**
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— Asymptotic behavior of the energy and pointwise estimates for solutions to the Navier-Stokes equations. (English summary) **2005d:35199**
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Bresch, Didier (*with* Desjardins, Benoît; Gérard-Varet, David) Rotating fluids in a cylinder. (English summary) **2005e:76083**
— (*with* Gérard-Varet, David) Roughness-induced effects on the quasi-geostrophic model. (English summary) **2005i:76115**
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Caboussat, Alexandre (*with* Picasso, Marco; Rappaz, Jacques) Numerical simulation of free surface incompressible liquid flows surrounded by compressible gas. (English summary) **2005j:76067**
Çağlar, Atife Weak imposition of boundary conditions for the Navier-Stokes equations. (English summary) **2005j:76057**
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Cannone, Marco (*with* Karch, Grzegorz) Smooth or singular solutions to the Navier-Stokes system? (English summary) **2005g:35228**
— (*with* Karch, Grzegorz) About the regularized Navier-Stokes equations. (English summary) **2005m:35219**
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Caraballo Garrido, Tomás The long-time behaviour of stochastic 2D-Navier-Stokes equations. (English summary) **2005e:35181**
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Charina, Maria (*with* Meir, A. J.; Schmidt, Paul Günter) Mixed velocity, stress, current, and potential boundary conditions for stationary MHD flow. (English summary) **2005f:76110**
Chaudhary, R. C. *see* **Sharma, Pawan Kumar[2]**, **2005k:76139**
Chauhan, Tarkeshwar Singh (*with* Lal, Madan) Study of unsteady flow of an electrically conducting viscous fluid in presence of uniform magnetic field through rectangular channel under the influence of an arbitrary time varying pressure gradient. (English summary)
Cheban, David N. (*with* Duan, Jin Qiao) Almost periodic solutions and global attractors of non-autonomous Navier-Stokes equations. (English summary) **2005e:37182**
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Chen, Xianqiao *see* **Lin, Ping[1] et al.**, **2005g:76077**
Chen, Zhangxin (*with* Lyons, Stephen L.; Qin, Guan) The mechanical behavior of a poroelastic medium saturated with a Newtonian fluid. (English summary) **2005a:74034**
— *see also* **He, Yinnian et al.**, **2005m:65188**
Cheremnykh, O. K. *see* **Akimenko, V. V.**, **2005i:76039**
Cherkaoui Malki, Mohammed Ouçamah (*with* Omari Alaoui, Elkebir) Green's functions and closing in pressure in partially nonhomogeneous turbulence. (English summary) **2005i:76066**
Cheskidov, A. Boundary layer for the Navier-Stokes-alpha model of fluid turbulence. (English summary) **2005f:76048**
Chetverushkin, B. N. (*with* Churbanova, N. G.) A quasi-gas-dynamic system of equations and Navier-Stokes equations. (Russian)
Chizhonkov, E. V. (*with* Ivanchikov, A. A.) On numerical stabilization of solutions of Stokes and Navier-Stokes equations by the boundary conditions. (English summary) **2005g:76084**
Cho, Han-Ru *see* **Tran, Chuong V. et al.**, **2005g:76064**
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Chueshov, Igor D. (*with* Raugel, Geneviève; Rekalo, Andrey M.) Interface boundary value problem for the Navier-Stokes equations in thin two-layer domains. (English summary) **2005h:35268**
Chupin, Laurent *see* **Boyer, Franck et al.**, **2005c:76011**
Churbanov, A. G. (*with* Vabishchevich, Petr N.) Domain decomposition techniques to solve the Navier-Stokes equations. (English summary) (*see* **2005b:76005**)
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Clercx, H. J. H. *see* **Satijn, M. P. et al.**, **2005f:76054**; **Molenaar, D. et al.**, **2005g:76058** *and* **Speetjens, M. F. M.**, **2005m:76127**
Cockburn, Bernardo (*with* Kanschat, Guido; Schötzau, Dominik) The local discontinuous Galerkin method for the Oseen equations. (English summary) **2005g:65168**
Codina, Ramon (*with* Soto, Orlando) Approximation of the incompressible Navier-Stokes equations using orthogonal subscale stabilization and pressure segregation on anisotropic finite element meshes. (English summary) **2005b:76082**
— *see also* **Blasco, Jordi**, **2005d:65131**
Consiglieri, L. (*with* Rodrigues, José-Francisco; Shilkin, T.) On the Navier-Stokes equations with the energy-dependent nonlocal viscosities. (English and Russian summaries) **2005k:35313**
Córdoba, Diego (*with* Fefferman, Charles Louis; de la Llave, Rafael) On squirt singularities in hydrodynamics. (English summary) **2005i:76032**
Cortez, Ricardo (*with* Peskin, Charles S.; Stockie, John M.; Varela, Douglas) Parametric resonance in immersed elastic boundaries. (English summary) **2005i:74026**
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Cutland, Nigel J. Stochastic Navier-Stokes equations: Loeb space techniques & attractors. (English summary) **2005i:60116**
— (*with* Keisler, H. Jerome) Global attractors for 3-dimensional stochastic Navier-Stokes equations. (English summary) **2005g:37150**
Danchin, Raphaël Zero Mach number limit for compressible flows with periodic boundary conditions. (English summary) **2005d:35208**
— Navier-Stokes equations with variable density. (English summary) **2005g:35230**
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Dascaliuc, Radu On backward-time behaviour of Burgers' original model for turbulence. (English summary) **2005k:76056**
Davies, Ian M. (*with* Truman, Aubrey; Zhao, Huai Zhong) Stochastic heat and Burgers equations and their singularities. II. Analytical properties and limiting distributions. (English summary) **2005m:60132**
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— *see also* **Barbu, Viorel et al.**, **2005h:35379** *and* **2005k:60190**
Deckelnick, Klaus (*with* Hinze, Michael) Semidiscretization and error estimates for distributed control of the instationary Navier-Stokes equations. (English summary) **2005c:76042**
Delgado-Buscalioni, Rafael (*with* Coveney, Peter V.) Hybrid molecular-continuum fluid dynamics. (English summary) **2005c:82090**
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Denisova, Irina Vlad. On the problem of thermocapillary convection for two incompressible fluids separated by a closed interface. (English summary) **2005m:35222**
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(Desvillettes, Laurent) *see* **Bouchut, François et al.**, **2005d:82102**
Deuring, Paul (*with* Kračmar, Stanislav) Exterior stationary Navier-Stokes flows in 3D with non-zero velocity at infinity: approximation by flows in bounded domains. (English summary) **2005e:35182**
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Di, Yana (*with* Li, Ruo; Tang, Tao; Zhang, Ping Wen) Moving mesh finite element methods for the incompressible Navier-Stokes equations. (English summary) **2005j:65107**
Diening, Lars (*with* Růžička, Michael) Integral operators on the halfspace in generalized Lebesgue spaces $L^{p(\cdot)}$. I. (English summary) **2005k:47098a**
— (*with* Růžička, Michael) Integral operators on the halfspace in generalized Lebesgue spaces $L^{p(\cdot)}$. II. (English summary) **2005k:47098b**
Dinaburg, E. I. (*with* Sinaĭ, Ya. G.) Existence and uniqueness of solutions of a quasilinear approximation of the three-dimensional Navier-Stokes system. (Russian. Russian summary) **2005g:35231**
— *see also* **Arnol'd, M. D. et al.**
Dindoš, Martin (*with* Mitrea, Marius) The stationary Navier-Stokes system in nonsmooth manifolds: the Poisson problem in Lipschitz and C^1 domains. (English summary) **2005f:35239**
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Djadel, K. (*with* Nicaise, Serge) Some refined finite volume element methods for the Stokes and Navier-Stokes systems with corner singularities. (English summary) **2005i:65162**
Dmitruk, Pablo (*with* Montgomery, David C.) Numerical study of the decay of enstrophy in a two-dimensional Navier-Stokes fluid in the limit of very small viscosities. (English summary) **2005k:76059**
Doering, Charles R. *see* **Lu, Lu[2] et al.**, **2005a:76096**
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Dong, Bo-qing (*with* Gao, Yong Dong; Qin, Xiao-hong; Wu, E-zi) Large time behavior for the weak solution of the nonlinear evolution equation. (English and Chinese summaries)
— (*with* Zhao, Cai-di; Li, Yong Sheng) Large time behavior for weak solutions to the system of the non-Newtonian fluids. (English and Chinese summaries)
Dreyfuss, Pierre (*with* Hungerbühler, Norbert) Navier-Stokes systems with quasimonotone viscosity tensor. (English summary)
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Dunca, Adrian (*with* John, Volker; Layton, W. J.) The commutation error of the space averaged Navier-Stokes equations on a bounded domain. (English summary) **2005j:76052**
— (*with* John, Volker) Finite element error analysis of space averaged flow fields defined by a differential filter. (English summary) **2005a:76100**
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Fernández Cara, Enrique (*with* Guerrero, Sergio; Imanuvilov, Oleg Yurievich; Puel, Jean-Pierre) Remarks on exact controllability for Stokes and Navier-Stokes systems. (English and French summaries) **2005c:93011**
— (*with* Guerrero, Sergio; Imanuvilov, Oleg Yurievich; Puel, Jean-Pierre) Local exact controllability of the Navier-Stokes system. (English and French summaries) **2005g:93013**
— *see also* **Albarreal Núñez, Isidoro I. et al.**, **2005k:65162** *and* **Galo, José R. et al.**
Fernandez-Feria, R. *see* **Sanmiguel-Rojas, E.**
Fernandez Merodo, José Antonio *see* **Quecedo, Manuel et al.**, **2005m:76118**
Ferrario, B. *see* **Al'beverio, S.**, **2005b:60151** *and* **2005e:76067**
Ferreira, V. G. *see* **de Sousa, F. S. et al.**, **2005b:76099**
Fetecău, Constantin *see* **Fetecău, Corina**, **2005b:76008**
Fetecău, Corina (*with* Fetecău, Constantin) Influence of internal friction on heat propagation in a shearing flow of a second grade fluid. (English summary) **2005b:76008**
Fishelov, D. (*with* Ben-Artzi, Matania; Croisille, J.-P.) A compact scheme for the streamfunction formulation of Navier-Stokes equations. (English summary) (*see* **2005g:65008**)
Flandoli, Franco Some remarks on a statistical theory of turbulent flows. (English summary) **2005g:76069**
Fogelson, Aaron L. *see* **Guy, Robert D.**, **2005j:65083**
Foias, Ciprian (*with* Jolly, M. S.; Manley, O. P.) Recurrence in the 2-*D* Navier-Stokes equations. (English summary) **2005k:76057**
Fontelos, Marco A. On the evolution of thin viscous jets: filament formation. (English summary) **2005g:76039**
Formaggia, Luca *see* **Quarteroni, Alfio**, **2005f:76119**
Fourestey, Gilles (*with* Moubachir, Marwan) Solving inverse problems involving the Navier-Stokes equations discretized by a Lagrange-Galerkin method. (English summary) **2005g:65135**
Franke, Brice About the decay of vorticity in a two-dimensional incompressible viscous fluid. (English summary) **2005f:35240**
(Friedlander, Susan J.) *see* **Handbook: Mathematical fluid dynamics, Vol. III**, **2005f:76002**
Fröhlich, Andreas[2] Solutions of the Navier-Stokes initial value problem in weighted L^q-spaces. (English summary) **2005i:35209**
Fu, Song *see* **Li, Qibing et al.**, **2005m:76142**
Fukao, Takesi Weak solutions for Stefan problems with convection in non-cylindrical domains. (English summary) (*see* **2005c:35004**)
Gaĭnova, I. A. *see* **Popov, Viktor Nikolaevich et al.**, (**2005i:65006**)
Galanti, B. (*with* Tsinober, A.) Is turbulence ergodic? (English summary) **2005e:76053**
Galdi, Giovanni P. (*with* Simader, Christian G.; Sohr, H.) A class of solutions to stationary Stokes and Navier-Stokes equations with boundary data in $W^{-1/q,q}$. (English summary) **2005k:35315**
— *see also* **Contributions to current challenges in mathematical fluid mechanics**, **2005c:35003**
Gallagher, I. (*with* Iftimie, D.; Planchon, Fabrice) Asymptotics and stability for global solutions to the Navier-Stokes equations. (English and French summaries) **2005b:35219**
Gallay, Thierry Équations de Navier-Stokes dans le plan avec tourbillon initial mesure. [Two-dimensional Navier-Stokes equations with measure-valued initial vorticity] **2005k:35316**
— (*with* Wayne, C. Eugene) Global stability of vortex solutions of the two-dimensional Navier-Stokes equation. (English summary) **2005m:35224**
Galo, José R. (*with* Albarreal Núñez, Isidoro I.; Calzada Canalejo, M. Carmen; Cruz Soto, José Luis; Fernández Cara, Enrique; Marín Beltrán, Mercedes) A simultaneous directions parallel algorithm for the Navier-Stokes equations. (English and French summaries)
Galo Sánchez, José R. *see* **Albarreal Núñez, Isidoro I. et al.**, **2005k:65162**
Ganesan, Sashikumaar (*with* John, Volker) Pressure separation—a technique for improving the velocity error in finite element discretisations of the Navier-Stokes equations. (English summary) **2005k:76075**
Gao, Yong Dong *see* **Dong, Bo-qing et al.**
Gao, Zhi *see* **Li, Ming Jun**
Garcia de Andrade, L. C. Non-Riemannian vortex geometry of rotational viscous fluids and breaking of the acoustic Lorentz invariance. (English summary) **2005k:83065**
Gauthier, Alain (*with* Saleri, Fausto; Veneziani, Alessandro) A fast preconditioner for the incompressible Navier-Stokes equations. (English summary) **2005a:76122**
Gentile, Maurizio (*with* Rionero, Salvatore) Global stability of flows in a divergent channel. (English summary) **2005d:76017**
(Georgescu, Adelina) *see* **Bichir, Cătălin Liviu**, **2005c:76043**
Gérard-Varet, David *see* **Bresch, Didier et al.**, **2005e:76083** *and* **2005i:76115**
Germain, Pierre Solutions globales d'énergie infinie de l'équation de Navier-Stokes 2D. (English and French summaries) [Global solutions of infinite energy for the 2D Navier-Stokes equation] **2005k:35317**
Ghil, Michael (*with* Liu, Jian-Guo[1]; Wang, Cheng[4]; Wang, Shou Hong) Boundary-layer separation and adverse pressure gradient for 2-D viscous incompressible flow. (English summary) **2005g:76036**
Giga, Yoshikazu (*with* Sawada, Okihiro) On regularizing-decay rate estimates for solutions to the Navier-Stokes initial value problem. (English summary) **2005f:35241**
Giraud, Christophe Some properties of Burgers turbulence with White noise initial conditions. (English summary) (*see* **2005c:60001**)
Girault, Vivette Semi and full discretization of the time-dependent Navier-Stokes equations by a two-grid scheme. (English summary) **2005m:65215**
— (*with* Rivière, Béatrice; Wheeler, Mary Fanett) A discontinuous Galerkin method with nonoverlapping domain decomposition for the Stokes and Navier-Stokes problems. (English summary) **2005f:65149**
Gliklikh, Yurīĭ E. Deterministic viscous hydrodynamics via stochastic analysis on groups of diffeomorphisms. (English summary) **2005b:58055**
Golse, François (*with* Saint-Raymond, Laure) The Navier-Stokes limit of the Boltzmann equation for bounded collision kernels. (English summary) **2005f:76003**
— *see also* **Bouchut, François et al.**, **2005d:82102**
Gormaz, Raúl *see* **Duarte, Fabián et al.**, **2005f:76065**
Gorsky, Jennifer M. The Cauchy problem for a modified Camassa-Holm equation with analytic initial data. (English summary) **2005i:35231**
Goudon, Thierry (*with* Jabin, Pierre-Emmanuel; Vasseur, Alexis) Hydrodynamic limit for the Vlasov-Navier-Stokes equations. I. Light particles regime. (English summary) **2005k:35334**
— (*with* Jabin, Pierre-Emmanuel; Vasseur, Alexis) Hydrodynamic limit for the Vlasov-Navier-Stokes equations. II. Fine particles regime. (English summary) **2005k:35335**
Grandmont, Céline (*with* Maday, Yvon) Fluid-structure interaction: a theoretical point of view. **2005e:74016**
Gravemeier, Volker (*with* Wall, Wolfgang A.; Ramm, Ekkehard) A three-level finite element method for the instationary incompressible Navier-Stokes equations. (English summary) **2005b:76086**
Grenier, Emmanuel Boundary layers. **2005j:76036**
— (*with* Jones, Christopher K. R. T.; Rousset, Frédéric; Sandstede, Björn) Viscous perturbations of marginally stable Euler flow and finite-time Melnikov theory. (English summary) **2005k:76033**
Grisanti, Carlo R. *see* **Berselli, Luigi C.**, **2005e:76055**
Grujić, Zoran (*with* Ruzmaikina, Anastasia) Interpolation between algebraic and geometric conditions for smoothness of the vorticity in the 3D NSE. (English summary) **2005g:35233**
— *see also* **Ruzmaikina, Anastasia**, **2005e:35185**
Guermond, Jean-Luc (*with* Shen, Jie[1]) A new class of truly consistent splitting schemes for incompressible flows. (English summary) **2005k:76076**
— (*with* Oden, J. Tinsley; Prudhomme, S.) Mathematical perspectives on large eddy simulation models for turbulent flows. (English summary) **2005b:76078**
— (*with* Shen, Jie[1]) On the error estimates for the rotational pressure-correction projection methods. (English summary) **2005f:65113**
Guerrero, Sergio *see* **Fernández Cara, Enrique et al.**, **2005c:93011** *and* **2005g:93013**
Guidoboni, Giovanna (*with* Padula, Mariarosaria) On the Bénard problem. (English summary) **2005m:76083**
— (*with* Jin, Bum Ja) On the nonlinear stability of Marangoni-Bénard problem with free surface in the Boussinesq approximation. (English summary) **2005i:76056**
Gülçat, Ü. *see* **Ünal, V. Ü.**, (**2005g:00014**)
Guntaka, A. *see* **Sengupta, T. K. et al.**
Gunzburger, Max D. (*with* Ladyzhenskaya, Ol'ga Aleksandrovna; Peterson, Janet S.) On the global unique solvability of initial-boundary value problems for the coupled modified Navier-Stokes and Maxwell equations. (English summary) **2005h:35269**
— *see also* **Bochev, Pavel B. et al.**, **2005e:65128**
Guo, Bo Ling (*with* Du, Xianyun) The exponential attractor for the equations of thermohydraulics. (English summary) **2005m:37192**
Guo, Xiu Lan (*with* Li, Kai Tai) The uniform attractor for the non-autonomous Navier-Stokes equation with non-homogeneous boundary condition in non-smooth domains. (Chinese. English and Chinese summaries) **2005a:37152**
— (*with* Li, Kai Tai) The attractor for Navier-Stokes equations on 3-dimensional thin domain. (English and Chinese summaries)
Gupta, Murli M. (*with* Kalita, Jiten C.) A new paradigm for solving Navier-Stokes equations: streamfunction-velocity formulation. (English summary) **2005k:76087**
Gustafsson, Bertil *see* **Brüger, Arnim et al.**, **2005f:76071**
Guy, Robert D. (*with* Fogelson, Aaron L.) Stability of approximate projection methods on cell-centered grids. (English summary) **2005j:65083**
Hairer, Martin (*with* Mattingly, Jonathan C.; Pardoux, Étienne) Malliavin calculus for highly degenerate 2D stochastic Navier-Stokes equations. (English and French summaries)
Hakobyan, A. (*with* Shahgholian, Henrik) A uniqueness result for an overdetermined problem in non-linear parabolic potential theory. (English summary) **2005i:35284**

Hamouda, Makram (*with* Rakotoson, Jean Michel; Verbeke, Cédric) Qualitative properties of some equations related to fluid mechanics. (English summary) **2005g:35242**
Hayat, Tasawar *see* **Mohyuddin, Muhammad R. et al., 2005a:76132**
He, Cheng (*with* Miyakawa, Tetsuro) On L^1-summability and asymptotic profiles for smooth solutions to Navier-Stokes equations in a 3D exterior domain. (English summary) **2005d:35200**
He, Li-Ping (*with* Sun, Shun-kai) The prediction-correction Legendre collocation method for nonlinear evolutionary problems. (English summary) **2005f:65134**
He, Xinyu Existence of Leray's self-similar solutions of the Navier-Stokes equations in $\mathscr{D} \subset \mathbb{R}^3$. (English summary) **2005b:35220**
He, Yinnian (*with* Li, Kai Tai) Fully discrete postprocessing Galerkin method for the Navier-Stokes equations. (English summary) **2005d:35201**
— (*with* Miao, Huanling; Mattheij, Robert M. M.; Chen, Zhangxin) Numerical analysis of a modified finite element nonlinear Galerkin method. (English summary) **2005m:65188**
— (*with* Li, Kai Tai) Asymptotic behavior and time discretization analysis for the non-stationary Navier-Stokes problem. (English summary) **2005h:35270**
— (*with* Li, Kai Tai; Zhao, Chunshan) Uniform stability of spectral nonlinear Galerkin methods. (English summary) **2005g:65144**
— *see also* **Zhou, Xiao Lin[1], 2005j:76069**
van Heijst, G. J. F. *see* **Satijn, M. P. et al., 2005f:76054** *and* **Molenaar, D. et al., 2005g:76058**
Heinkenschloss, Matthias *see* **Abraham, Feby et al., 2005g:49056**
Hérard, Jean-Marc *see* **Perron, Sébastien et al., 2005d:76027**
Herbin, Raphaèle *see* **Eymard, Robert, (2005j:65003)**
Herreros, Maria Isabel *see* **Quecedo, Manuel et al., 2005m:76118**
(Heywood, John G.) *see* **Contributions to current challenges in mathematical fluid mechanics, 2005c:35003**
Hill, Adrian T. (*with* Wan, W. L.) Analysis and numerics for a parabolic equation with impulsive forcing. (English summary) **2005f:65127**
Hintermüller, Michael (*with* Kunisch, Karl; Spasov, Yulian; Volkwein, Stefan) Dynamical systems-based optimal control of incompressible fluids. (English summary) **2005f:76044**
Hinze, Michael (*with* Kunisch, Karl) Second order methods for boundary control of the instationary Navier-Stokes system. (English summary) **2005g:49061**
— *see also* **Deckelnick, Klaus, 2005c:76042**
Hishida, Toshiaki The nonstationary Stokes and Navier-Stokes flows through an aperture. (English summary) **2005f:35242**
— *see also* **Farwig, Reinhard et al., 2005f:35078**
Hlomuka, Joe The linearized non-stationary problem for the permeable boundary Navier-Stokes flows. (English summary)
Hmidi, Taoufik (*with* Keraani, Sahbi) Limite non visqueuse pour le système de Navier-Stokes dans un espace critique. (English and French summaries) [Inviscid limit for the Navier-Stokes system in a critical space] **2005b:35221**
Homentcovschi, Dorel (*with* Ion, Stelian) A paradox in the motion of a viscous fluid having a boundary discontinuity point for the velocity. (English summary) **2005a:76139**
Hou, Thomas Yizhao (*with* Li, Congming) Global well-posedness of the viscous Boussinesq equations. (English summary) **2005j:76026**
Hou, Yanren (*with* Li, Kai Tai) The uniform attractor for the 2D non-autonomous Navier-Stokes flow in some unbounded domain. (English summary) **2005f:35243**
Hughes, Thomas J. R. (*with* Wells, Garth N.) Conservation properties for the Galerkin and stabilised forms of the advection-diffusion and incompressible Navier-Stokes equations. (English summary) **2005j:76060**
Hungerbühler, Norbert *see* **Dreyfuss, Pierre**
Hwang, Feng-Nan (*with* Cai, Xiao-Chuan) A parallel nonlinear additive Schwarz preconditioned inexact Newton algorithm for incompressible Navier-Stokes equations. (English summary) **2005k:76096**
Ifidon, E. O. Numerical studies of viscous incompressible flow between two rotating concentric spheres. **2005f:76106**
Iftimie, D. *see* **Gallagher, I. et al., 2005b:35219**
Imanuvilov, Oleg Yurievich *see* **Fernández Cara, Enrique et al., 2005c:93011** *and* **2005g:93013**
Imranov, Fariz B. On the existence of solution of difference scheme for a stationary problem of incompressible liquid with non-zero boundary conditions. (English summary)
Ion, Stelian *see* **Homentcovschi, Dorel, 2005a:76139**
Ismail, Galal *see* **Ismail, I. A. et al., 2005g:76089**
Ismail, I. A. (*with* Ismail, Galal; Sedqi, A. M.) A computational method for solving the branched channel flow problem. (English summary) **2005g:76089**
Ivanchikov, A. A. *see* **Chizhonkov, E. V., 2005g:76084**
Iyer, Gautam Transport in viscous rotating fluids. (English summary) **2005k:76136**
Jabin, Pierre-Emmanuel *see* **Goudon, Thierry et al., 2005k:35334** *and* **2005k:35335**
Jauberteau, F. (*with* Temam, Roger) Estimates based on scale separation for geophysical flows. (English and Spanish summaries) **2005b:86001**
Jiang, Song *see* **Xiao, Ling, 2005j:35181**
Jin, Bum Ja *see* **Guidoboni, Giovanna, 2005i:76056**
Jiu, Quan Sen (*with* Xin, Zhou Ping) Some regularity criteria on suitable weak solutions of the 3-D incompressible axisymmetric Navier-Stokes equations. (English summary) **2005i:35210**
John, Volker (*with* Kaya, Songul) A finite element variational multiscale method for the Navier-Stokes equations. (English summary) **2005k:76077**
— *see also* **Dunca, Adrian et al., 2005a:76100; 2005j:76052** *and* **Ganesan, Sashikumaar, 2005k:76075**
Johnston, Hans (*with* Liu, Jian-Guo[1]) Accurate, stable and efficient Navier-Stokes solvers based on explicit treatment of the pressure term. (English summary) **2005b:76093**
Jolly, M. S. *see* **Foias, Ciprian et al., 2005k:76057**
Jones, Christopher K. R. T. *see* **Balasuriya, Sanjeeva et al., 2005k:37200** *and* **Grenier, Emmanuel et al., 2005k:76033**
Ju, Ning Existence and uniqueness of the solution to the dissipative 2D quasi-geostrophic equations in the Sobolev space. (English summary) **2005h:76084**
Kähler, U. Clifford analysis and the Navier-Stokes equations over unbounded domains. (English summary) **2005g:35234**
Kaiser, Ralf (*with* Mulone, Giuseppe) A note on nonlinear stability of plane parallel shear flows. (English summary) **2005h:35283**
Kalita, Jiten C. *see* **Gupta, Murli M., 2005k:76087**
Kanayama, Hiroshi (*with* Tagami, Daisuke; Araki, Takahiro; Kume, Hirokazu) A stabilization technique for steady flow problems. (English summary)
Kang, Kyungkeun On boundary regularity of the Navier-Stokes equations. (English summary) **2005j:35168**
— On regularity of stationary Stokes and Navier-Stokes equations near boundary. (English summary) **2005b:35222**
— Regularity of axially symmetric flows in a half-space in three dimensions. (English summary) **2005m:76046**
Kanschat, Guido *see* **Cockburn, Bernardo et al., 2005g:65168**
Karamanou, Marianna (*with* Shaw, Simon C.; Warby, M. K.; Whiteman, J. R.) Models, algorithms and error estimation for computational viscoelasticity. (English summary) **2005g:74053**
Karch, Grzegorz *see* **Cannone, Marco, 2005g:35228** *and* **2005m:35219**
Kaszkurewicz, Eugenius *see* **Schaerer, Christian E. et al., 2005a:76125**
Katz, Nets Hawk (*with* Pavlović, Nataša) Finite time blow-up for a dyadic model of the Euler equations. (English summary) **2005h:35284**
Kawarada, Hideo *see* **Suito, Hiroshi, 2005a:76008**
Kaya, Songul *see* **John, Volker, 2005k:76077**
Keisler, H. Jerome *see* **Cutland, Nigel J., 2005g:37150**
Kelliher, James P. The inviscid limit for two-dimensional incompressible fluids with unbounded vorticity. (English summary) **2005g:76007**
Keraani, Sahbi *see* **Hmidi, Taoufik, 2005b:35221**
Kerr, Robert M. Vortex collapse and turbulence. (English summary) **2005m:76106**
Khabid, S. *see* **Alami-Idrissi, A.**
Kharrat, Nizar (*with* Mghazli, Zoubida) Residual error estimators for the time-dependent Stokes equations. (English and French summaries)
Kim, Hyunseok *see* **Cho, Yonggeun, 2005k:35312**
King, John Robert (*with* Cox, Stephen M.) Self-similar "stagnation point" boundary layer flows with suction or injection. (English summary) **2005m:76060**
Kleiser, L. *see* **Schlatter, P. et al., 2005k:76102**
Kobelkov, G. M. On parabolic approximations of the Navier-Stokes equations. **2005i:35211**
Kolář, Václav On exact similarity solutions of the unsteady Navier-Stokes equations. (English summary)
Kondaxakis, Dimitris (*with* Tsangaris, Sokrates) A weak Legendre collocation spectral method for the solution of the incompressible Navier-Stokes equations in unstructured quadrilateral subdomains. (English summary) **2005a:76114**
Kopachevskii, Nikolai D. (*with* Mennicken, Reinhard; Pashkova, Yuliya S.; Tretter, Christiane) Complete second order linear differential operator equations in Hilbert space and applications in hydrodynamics. (English summary) **2005j:34088**
Koumoutsakos, Petros *see* **Werder, Thomas et al., (2005d:65007)**
Kouskouti, M. *see* **Vlachakis, N. et al., (2005b:76003)**
Kozono, Hideo (*with* Ogawa, Takayoshi; Taniuchi, Yasushi) Navier-Stokes equations in the Besov space near L^∞ and BMO. (English summary) **2005f:35244**
— (*with* Yatsu, Naoki) Extension criterion via two-components of vorticity on strong solutions to the 3D Navier-Stokes equations. (English summary) **2005b:35223**
Kračmar, Stanislav *see* **Deuring, Paul, 2005e:35182**
Kreiss, Heinz-Otto (*with* Lorenz, Jens) ★ Initial-boundary value problems and the Navier-Stokes equations. **2005c:35229**
— (*with* Lorenz, Jens) A priori estimates in terms of the maximum norm for the solutions of the Navier-Stokes equations. (English summary) **2005f:35245**
Kučera, Petr[2] *see* **Skalák, Zdeněk, 2005g:35237**
Kuhnert, Jörg *see* **Tiwari, Sudarshan, 2005f:76077**
Kukavica, Igor Length of vorticity nodal sets for solutions of the 2D Navier-Stokes equations. (English summary) **2005c:35230**
Kuksin, Sergei B. (*with* Shirikyan, Armen) Some limiting properties of randomly forced two-dimensional Navier-Stokes equations. (English summary) **2005c:60079**
— (*with* Shirikyan, Armen) On random attractors for systems of mixing type. (Russian. Russian summary) **2005g:37103**
— (*with* Shirikyan, Armen) Randomly forced CGL equation: stationary measures and the inviscid limit. (English summary) **2005e:35214**
— (*with* Penrose, Oliver) A family of balance relations for the two-dimensional Navier-Stokes equations with random forcing. (English summary) **2005k:76107**
Kumakshev, S. A. *see* **Akulenko, L. D.**
Kume, Hirokazu *see* **Kanayama, Hiroshi et al.**
Kunisch, Karl *see* **Hintermüller, Michael et al., 2005f:76044** *and* **Hinze, Michael, 2005g:49061**
Kuttykozhaeva, Sh. N. Modeling a boundary condition for total pressure in a nonlinear model of an incompressible fluid. (Russian)
Ladyzhenskaya, Ol'ga Aleksandrovna *see* **Gunzburger, Max D. et al., 2005h:35269**
Lai, Ming-Jun *see* **Awanou, Gerard, 2005m:65015**
Lal, Madan *see* **Chauhan, Tarkeshwar Singh**
Langa, José A. (*with* Real Anguas, José; Simon, Jacques) Existence and regularity of the pressure for the stochastic Navier-Stokes equations. (English summary) **2005h:60187**
— (*with* Schmalfuß, Björn) Finite dimensionality of attractors for non-autonomous dynamical systems given by partial differential equations. (English summary) **2005f:37169**
Layton, W. J. *see* **Dunca, Adrian et al., 2005j:76052**
Lee, Jihoon Generic solvability for the 3-D Navier-Stokes equations with nonregular force. (English summary) **2005e:35184**
— *see also* **Chae, Dongho, 2005g:35229**
Lee, Long (*with* LeVeque, Randall J.) An immersed interface method for incompressible Navier-Stokes equations. (English summary) **2005a:65086**
Lemarié-Rieusset, Pierre-Gilles Nouvelles remarques sur l'analyticité des solutions milds des équations de Navier-Stokes dans $\mathbb{R}^3$. (English and French summaries) [Further remarks on the analyticity of mild solutions for the Navier-Stokes equations in $\mathbb{R}^3$] **2005a:35222**
Leonard, Anthony *see* **Barba, L. A. et al., 2005h:76062**
LeVeque, Randall J. *see* **Lee, Long, 2005a:65086**
Li, Congming *see* **Hou, Thomas Yizhao, 2005j:76026**
Li, Jing-Rebecca A dual-primal FETI method for solving Stokes/Navier-Stokes equations.

(*see* **2005f:65003**)

Li, Kai Tai *see* **Guo, Xiu Lan, 2005a:37152**; **Wang, He Yuan et al., 2005a:76115**; **2005i:65150**; **He, Yinnian et al., 2005d:35201**; **2005g:65144**; **2005h:35270**; **Hou, Yanren, 2005f:35243** *and* **Yu, Yongjiang**

Li, Ming Jun (*with* Gao, Zhi) Simplification of the fluid mechanics equations of strong viscous shear flow and a computational criterion. (Chinese. English and Chinese summaries)

Li, Qibing (*with* Fu, Song; Xu, Kun) A compressible Navier-Stokes flow solver with scalar transport. (English summary) **2005m:76142**

Li, Ruo *see* **Di, Yana et al., 2005j:65107**

Li, Yong Sheng *see* **Dong, Bo-qing et al.**

Liakos, A. Discretization of the Navier-Stokes equations with slip boundary condition. II. (English summary) **2005h:65216**

Lim, Sookkyung (*with* Peskin, Charles S.) Simulations of the whirling instability by the immersed boundary method. (English summary) **2005f:74029**

Lin, Changhao (*with* Payne, Lawrence E.) Spatial decay bounds in the channel flow of an incompressible viscous fluid. (English summary) **2005d:35202**

Lin, Ping[1] (*with* Chen, Xianqiao; Ong, Ming Tze) Finite element methods based on a new formulation for the non-stationary incompressible Navier-Stokes equations. (English summary) **2005g:76077**

Lin, R. K. *see* **Sheu, Tony W. H., 2005j:65131**

Lipnikov, K. (*with* Vasilevskiĭ, Yu. V.) Parallel adaptive solution of the Stokes and Oseen problems on unstructured 3D meshes. (English summary) (*see* **2005b:76005**)

Liu, Jian-Guo[1] (*with* Wang, Wei-Cheng) Energy and helicity preserving schemes for hydro- and magnetohydro-dynamics flows with symmetry. (English summary)

— *see also* **Johnston, Hans, 2005b:76093** *and* **Ghil, Michael et al., 2005g:76036**

Liu, Miao Er (*with* Ren, Yu Xin; Zhang, Han Xin) A class of fully second order accurate projection methods for solving the incompressible Navier-Stokes equations. (English summary) **2005g:76092**

— (*with* Ren, Yu Xin; Zhang, Han Xin) Third-order projection method for solving the incompressible Navier-Stokes equations. (Chinese. English and Chinese summaries)

Liu, Wing Kam *see* **Liu, Yaling et al., 2005h:92011**

Liu, Yaling (*with* Zhang, Lucy; Wang, Xiaodong; Liu, Wing Kam) Coupling of Navier-Stokes equations with protein molecular dynamics and its application to hemodynamics. (English summary) **2005h:92011**

de la Llave, Rafael *see* **Córdoba, Diego et al., 2005i:76032**

Lorenz, Jens *see* **Kreiss, Heinz-Otto, 2005c:35229** *and* **2005f:35245**

Lötstedt, Per *see* **Brüger, Arnim et al., 2005f:76071**

Lu, James *see* **Nielsen, Eric J. et al., 2005c:76068**

Lu, Lu[2] (*with* Doering, Charles R.; Busse, Friedrich H.) Bounds on convection driven by internal heating. (English summary) **2005a:76096**

Łukaszewicz, Grzegorz *see* **Boukrouche, Mahdi, 2005h:37191**

Lyakhov, L. N. (*with* Lyakhova, S. L.) The general Fourier-Bessel transform and singular systems of the Navier-Stokes equations. (Russian) **2005m:35225**

Lyakhova, S. L. *see* **Lyakhov, L. N., 2005m:35225**

Lyons, Stephen L. *see* **Chen, Zhangxin et al., 2005a:74034**

Ma, Tian (*with* Wang, Shou Hong) Asymptotic structure for solutions of the Navier-Stokes equations. (English summary) **2005c:37168**

Ma, Yi Chen *see* **Ren, Chun Feng et al., 2005c:76065** *and* **2005k:76101**

Machmoum, Ahmed (*with* Seaïd, Mohammed) A highly accurate modified method of characteristics for convection-dominated flow problems. (English summary) **2005f:65116**

Maday, Yvon *see* **Grandmont, Céline, 2005e:74016**

Mahomed, F. M. *see* **Mohyuddin, Muhammad R. et al., 2005a:76132**

Manfrin, Renato *see* **Berselli, Luigi C., 2005b:35216**

Mangiavacchi, Norberto *see* **Schaerer, Christian E. et al., 2005a:76125** *and* **de Sousa, F. S. et al., 2005b:76099**

Manjula, V. *see* **Sanyasiraju, Y. V. S. S., 2005k:76089**

Manley, O. P. *see* **Foias, Ciprian et al., 2005k:76057**

Manna, Marcello (*with* Vacca, Andrea; Deville, Michel O.) Preconditioned spectral multi-domain discretization of the incompressible Navier-Stokes equations. (English summary) **2005f:76073**

Manuilovich, S. V. On the perturbation of Hamel flow due to unevenness of the channel walls. (Russian. Russian summary) **2005f:76034**

Maremonti, Paolo *see* **Crispo, Francesca, 2005m:35220**

Marín Beltrán, Mercedes *see* **Albarreal Núñez, Isidoro I. et al., 2005k:65162** *and* **Galo, José R. et al.**

Masmoudi, Nader Hydrodynamic limits of the Boltzmann equation. (English summary) **2005c:76002**

Mattheij, Robert M. M. *see* **He, Yinnian et al., 2005m:65188**

Mattingly, Jonathan C. On recent progress for the stochastic Navier Stokes equations. (English summary) **2005b:60155**

— (*with* Suidan, Toufic M.) The small scales of the stochastic Navier-Stokes equations under rough forcing. (English summary) **2005m:76145**

— *see also* **Hairer, Martin et al.**

Mayo, Anita Rapid, fourth order accurate solution of the steady Navier Stokes equations on general regions. (English summary) **2005k:65235**

McDonough, James (*with* Bible, S. A.; Scoville, J.) Response to strain rate in a discrete dynamical system model of the high-wavenumber Navier-Stokes equations. (English summary) **2005f:76057**

— *see also* **Bible, S. A.**

McKee, Sean *see* **de Sousa, F. S. et al., 2005b:76099**

Meir, A. J. *see* **Charina, Maria et al., 2005f:76110**

Mekkaoui, Mona *see* **Smaoui, Nejib, 2005d:35230**

Meleshko, S. V. A particular class of partially invariant solutions of the Navier-Stokes equations. (English summary) **2005j:35169**

— *see also* **Thailert, K., (2005c:00016)**

Mennicken, Reinhard *see* **Kopachevskii, Nikolai D. et al., 2005j:34088**

Mezić, Igor *see* **Balasuriya, Sanjeeva et al., 2005k:37200**

Mghazli, Zoubida *see* **Kharrat, Nizar**

Miao, Huanling *see* **He, Yinnian et al., 2005m:65188**

Migórski, Stanisław Hemivariational inequalities modeling viscous incompressible fluids. (English summary) **2005g:35235**

— (*with* Ochal, Anna) Hemivariational inequalities for stationary Navier-Stokes equations. (English summary) **2005m:35226**

Mikulevicius, R. (*with* Rozovskiĭ, B. L.) Stochastic Navier-Stokes equations for turbulent flows. (English summary) **2005b:60156**

— (*with* Rozovskiĭ, B. L.) Global L_2-solutions of stochastic Navier-Stokes equations. (English summary) **2005k:60198**

Mitrea, Marius *see* **Dindoš, Martin, 2005f:35239**

Miura, Hideyuki Remark on uniqueness of mild solutions to the Navier-Stokes equations. (English summary) **2005h:35272**

Miyakawa, Tetsuro *see* **He, Cheng, 2005d:35200**

Mohyuddin, Muhammad R. (*with* Hayat, Tasawar; Mahomed, F. M.; Asghar, Saleem; Siddiqui, Abdul Majeed) On solutions of some non-linear differential equations arising in Newtonian and non-Newtonian fluids. (English summary) **2005a:76132**

Molenaar, D. (*with* Clercx, H. J. H.; van Heijst, G. J. F.) Angular momentum of forced 2D turbulence in a square no-slip domain. (English summary) **2005g:76058**

Montgomery, David C. *see* **Dmitruk, Pablo, 2005k:76059**

Morimoto, Hiroko A remark on the pressure for the Navier-Stokes flows in 2-D straight channel with an obstacle. (English summary) **2005b:35224**

Moubachir, Marwan *see* **Fourestey, Gilles, 2005g:65135**

Mucha, Piotr Bogusław On the structure of flows through pipe-like domains satisfying a geometrical constraint. (English summary) **2005g:35236**

— The Navier-Stokes equations and the maximum principle. **2005k:35320**

— On cylindrical symmetric flows through pipe-like domains. (English summary) **2005k:35321**

— A model of a two-dimensional pump. **2005m:35227**

Müller, Detlef *see* **Farwig, Reinhard et al., 2005f:35078**

Mulone, Giuseppe Stabilizing effects in dynamical systems: linear and nonlinear stability conditions. (English summary) **2005f:34140**

— *see also* **Kaiser, Ralf, 2005h:35283**

Nagatou, K. A computer-assisted proof on the stability of the Kolmogorov flows of incompressible viscous fluid. (English summary) **2005c:76047**

Nakamura, Ken-Ichi (*with* Okamoto, Hisashi; Yagisita, Hiroki) Blow-up solutions appearing in the vorticity dynamics with linear strain. (English summary) **2005a:76037**

Natalini, Roberto *see* **Brenier, Yann et al., 2005b:35218**

Natesan, Srinivasan *see* **Duarte, Fabián et al., 2005f:76065**

Nazarov, Sergei A. (*with* Specovius-Neugebauer, Maria) The pressure stabilization method for steady viscous flows in a system of pipes. (English and Russian summaries) **2005d:35212**

— (*with* Specovius-Neugebauer, Maria; Videman, Juha H.) Nonlinear artificial boundary conditions for the Navier-Stokes equations in an aperture domain. (English summary) **2005c:35231**

Neustupa, Jiří (*with* Novotný, Antonín; Penel, Patrick) An interior regularity of a weak solution to the Navier-Stokes equations in dependence on one component of velocity. **2005d:35204**

— The boundary regularity of a weak solution of the Navier-Stokes equation and its connection to the interior regularity of pressure. (English summary) **2005a:35223**

— (*with* Penel, Patrick) On the regularity up to the boundary in the theory of the Navier-Stokes equations with generalized impermeability conditions. (English and French summaries) **2005h:35286**

— *see also* **Bellout, Hamid et al., 2005f:35236**

Nicaise, Serge *see* **Djadel, K., 2005i:65162**

Nicolás, Alfredo (*with* Bermúdez, Blanca) 2D incompressible viscous flows at moderate and high Reynolds numbers. (English summary)

— (*with* Bermúdez, Blanca) 2D thermal/isothermal incompressible viscous flows. (English summary) **2005m:76165**

Nielsen, Eric J. (*with* Lu, James; Park, Michael A.; Darmofal, David L.) An implicit, exact dual adjoint solution method for turbulent flows on unstructured grids. (English summary) **2005c:76068**

Nilsson, Jonas *see* **Brüger, Arnim et al., 2005f:76071**

Nochetto, Ricardo H. (*with* Pyo, Jae-Hong) Error estimates for semi-discrete gauge methods for the Navier-Stokes equations. (English summary) **2005i:65132**

Nonato, L. G. *see* **de Sousa, F. S. et al., 2005b:76099**

Novotný, Antonín *see* **Neustupa, Jiřiet al., 2005d:35204**

Núñez Jiménez, Manuel Uniform estimates on the velocity in Rayleigh-Bénard convection. (English summary) **2005k:76045**

Obukhovskiĭ, V. V. (*with* Zecca, Pietro; Zvyagin, Viktor) Optimal feedback control in the problem of the motion of a viscoelastic fluid. (English summary) **2005f:49008**

Ochal, Anna *see* **Migórski, Stanisław, 2005m:35226**

Oden, J. Tinsley *see* **Guermond, Jean-Luc et al., 2005b:76078**

Ogawa, Takayoshi (*with* Taniuchi, Yasushi) The limiting uniqueness criterion by vorticity for Navier-Stokes equations in Besov spaces. (English summary) **2005j:35170**

— *see also* **Kozono, Hideo et al., 2005f:35244**

Okamoto, Hisashi *see* **Nakamura, Ken-Ichi et al., 2005a:76037**

Omari Alaoui, Elkebir *see* **Cherkaoui Malki, Mohammed Ouçamah, 2005i:76066**

Ong, Ming Tze *see* **Lin, Ping[1] et al., 2005g:76077**

Ortegón Gallego, Francisco Regularization by monotone perturbations of the hydrostatic approximation of Navier-Stokes equations. (English summary) **2005j:35171**

Ott, William The global attractor associated with the viscous lake equations. (English summary) **2005e:37186**

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Paicu, Marius Fluides incompressibles horizontalement visqueux. (French summary) [Incompressible fluids with horizontal viscosity] **2005c:35232**

— Étude asymptotique pour les fluides anisotropes en rotation rapide dans le cas périodique. (English and French summaries) [Asymptotic study of rapidly rotating anisotropic fluids in the periodic case] **2005b:76134**

Pardoux, Étienne *see* **Hairer, Martin et al.**

Park, Michael A. *see* **Nielsen, Eric J. et al., 2005c:76068**

Parolini, Nicola (*with* Quarteroni, Alfio) Mathematical models and numerical simulations

for the America's Cup. (English summary) **2005i:74030**
Pascu, Mihai (*with* Boacă, Tudor) On the exterior problem for the heat convection equation. (English summary) **2005c:35244**
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Pastor, Manuel *see* **Quecedo, Manuel et al., 2005m:76118**
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Pavlou, M. *see* **Vlachakis, N. et al., (2005b:76003)**
Pavlović, Nataša *see* **Katz, Nets Hawk, 2005h:35284**
Payne, Lawrence E. *see* **Lin, Changhao, 2005d:35202**
Penel, Patrick (*with* Pokorný, Milan[1]) Some new regularity criteria for the Navier-Stokes equations containing gradient of the velocity. (English summary) **2005f:35247**
— *see also* **Neustupa, Jiřiet al., 2005d:35204; 2005h:35286** *and* **Bellout, Hamid et al., 2005f:35236**
Penrose, Oliver *see* **Kuksin, Sergei B., 2005k:76107**
Perron, Sébastien (*with* Boivin, Sylvain; Hérard, Jean-Marc) A finite volume method to solve the 3D Navier-Stokes equations on unstructured collocated meshes. (English summary) **2005d:76027**
(Perthame, Benoît) *see* **Bouchut, François et al., 2005d:82102**
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Picasso, Marco *see* **Caboussat, Alexandre et al., 2005j:76067**
Pileckas, K. (*with* Zaleskis, L.) On a steady three-dimensional noncompact free boundary value problem for the Navier-Stokes equations. (English and Russian summaries) **2005g:35308**
Pironneau, Olivier Numerical and mathematical methods for the nuclear waste disposal problem. (English summary) (*see* **2005h:00013**)
Planas, Gabriela (*with* Boldrini, José Luiz) Weak solutions of a phase-field model with convection for solidification of an alloy. (English summary) **2005h:35177**
— (*with* Boldrini, José Luiz) A bidimensional phase-field model with convection for change phase of an alloy. (English summary) **2005k:35407**
Planchon, Fabrice *see* **Gallagher, I. et al., 2005b:35219**
Pokorný, Milan[1] *see* **Penel, Patrick, 2005f:35247**
Ponta, F. L. The kinematic Laplacian equation method. (English summary) **2005m:76117**
Pontaza, J. P. (*with* Reddy, J. N.) Space-time coupled spectral/*hp* least-squares finite element formulation for the incompressible Navier-Stokes equations. (English summary) **2005a:76104**
Popov, Viktor Nikolaevich (*with* Tsivinskaya, Yu. S.; Gaĭnova, I. A.) On one finite difference algorithm for solving Navier-Stokes equations. (*see* **2005i:65006**)
Popović, Nikola (*with* Szmolyan, Peter) A geometric analysis of the Lagerstrom model problem. (English summary) **2005c:34108**
Pozrikidis, C. Effect of inertia on the Marangoni instability of two-layer channel flow. I. Numerical simulations. (English summary) **2005h:76034**
— *see also* **Blyth, M. G., 2005h:76035**
Protopopova, T. V. *see* **Voevodin, A. F., (2005i:65006)**
Prudhomme, S. *see* **Guermond, Jean-Luc et al., 2005b:76078**
Puel, Jean-Pierre Inégalités de Carleman globales pour les problèmes elliptiques non homogènes. (French summary) [Global Carleman inequalities for nonhomogeneous elliptic problems] **2005d:35023**
— *see also* **Fernández Cara, Enrique et al., 2005c:93011** *and* **2005g:93013**
Puel, Marjolaine *see* **Brenier, Yann et al., 2005b:35218**
Pulvirenti, Mario *see* **Bouchut, François et al., 2005d:82102** *and* **Esposito, Raffaele, 2005f:82098**
Purvis, R. (*with* Smith, Frank T.) Air-water interactions near droplet impact. (English summary) **2005k:76040**
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Qin, Guan *see* **Chen, Zhangxin et al., 2005a:74034**
Qin, Xiao-hong *see* **Dong, Bo-qing et al.**
Quarteroni, Alfio (*with* Formaggia, Luca) Mathematical modelling and numerical simulation of the cardiovascular system. **2005f:76119**
— *see also* **Parolini, Nicola, 2005i:74030**
Quecedo, Manuel (*with* Pastor, Manuel; Herreros, Maria Isabel; Fernandez Merodo, José Antonio; Zhang, Qinfen) Comparison of two mathematical models for solving the dam break problem using the FEM method. (English summary) **2005m:76118**
Radkevich, E. V. *see* **Zakharchenko, P. A., 2005j:82072**
Rakotoson, Jean Michel Remarks on global existence for a family of inequalities and applications to Mullins and Navier-Stokes equations. (English summary) **2005i:35131**
— *see also* **Hamouda, Makram et al., 2005g:35242**
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Rappaz, Jacques *see* **Caboussat, Alexandre et al., 2005j:76067**
Rashid, Abdur A spectral method for the Navier-Stokes equations on the spherical surface. (English summary) **2005k:76091**
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Rekalo, Andrey M. *see* **Chueshov, Igor D. et al., 2005h:35268**
Ren, Chun Feng (*with* Ma, Yi Chen) Residual a posteriori error estimate two-grid methods for the steady Navier-Stokes equation with stream function form. (Chinese. English and Chinese summaries) **2005c:76065**
— (*with* Ma, Yi Chen; Ying, Gen Jun) A two-grid method for the unsteady Navier-Stokes equations with a penalty form. (Chinese. English summary) **2005k:76101**
Ren, Yu Xin *see* **Liu, Miao Er et al., 2005g:76092**
Ribe, Neil M. Coiling of viscous jets. (English summary) **2005f:76037**
Rionero, Salvatore *see* **Gentile, Maurizio, 2005d:76017**
Rivière, Béatrice *see* **Girault, Vivette et al., 2005f:65149**
Robinson, James Cooper A coupled particle-continuum model: well-posedness and the limit of zero radius. (English summary) **2005i:35214**
Röckner, Michael (*with* Sobol, Zeev) A new approach to Kolmogorov equations in infinite dimensions and applications to stochastic generalized Burgers equations. (English and French summaries) **2005e:60135**
Rodrigues, José-Francisco *see* **Trends in partial differential equations of mathematical physics, 2005j:00021** *and* **Consiglieri, L. et al., 2005k:35313**
Roh, Jaiok *see* **Bae, Hyeong-Ohk, 2005a:35221**
Romito, Marco Ergodicity of the finite dimensional approximation of the 3D Navier-Stokes equations forced by a degenerate noise. (English summary) **2005a:76128**
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Rossi, Louis F. Achieving high-order convergence rates with deforming basis functions. (English summary) **2005i:76086**
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Roussier-Michon, Violaine Existence et comportement asymptotique en temps des solutions de Navier-Stokes Coriolis dans une bande tridimensionnelle. [Existence and asymptotic behavior in time of the Navier-Stokes Coriolis solutions in a three-dimensional layer] **2005j:35172**
— Long-time asymptotics of Navier-Stokes and vorticity equations in a three-dimensional layer. (English and French summaries) **2005k:35322**
Rozovskiĭ, B. L. *see* **Mikulevicius, R., 2005b:60156** *and* **2005k:60198**
Rucklidge, Alastair M. (*with* Champneys, Alan R.) Boundary effects and the onset of Taylor vortices. (English summary) **2005a:76063**
Russo, Remigio On the existence of solutions to the stationary Navier-Stokes equations. (English summary) **2005f:35248**
Růžička, Michael *see* **Diening, Lars, 2005k:47098a** *and* **2005k:47098b**
Ruzmaikina, Anastasia (*with* Grujić, Zoran) On depletion of the vortex-stretching term in the 3D Navier-Stokes equations. (English summary) **2005e:35185**
— *see also* **Grujić, Zoran, 2005g:35233**
Saint-Raymond, Laure *see* **Golse, François, 2005f:76003**
Salem, Salem A. Numerical simulations for the contraction flow using grid generation. (English summary) **2005c:76069**
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Salvi, Rodolfo On the existence of free surface problem for viscous incompressible flow. **2005d:35205**
Samokhin, V. N. Formation of a boundary layer near a rear point. (Russian. Russian summary) **2005g:76037**
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Sandstede, Björn *see* **Grenier, Emmanuel et al., 2005k:76033**
Sanmiguel-Rojas, E. (*with* Fernandez-Feria, R.) Nonlinear waves in the pressure driven flow in a finite rotating pipe. (English summary)
dos Santos, Marcelo Martins *see* **Ammar-Khodja, Farid, 2005k:35328**
Sanyasiraju, Y. V. S. S. (*with* Manjula, V.) Higher order semi compact scheme to solve transient incompressible Navier-Stokes equations. (English summary) **2005k:76089**
Sarychev, Andrei V. *see* **Agrachev, Andrei A., 2005h:93004**
Satijn, M. P. (*with* van Buren, M. G.; Clercx, H. J. H.; van Heijst, G. J. F.) Vortex models based on similarity solutions of the two-dimensional diffusion equation. (English summary) **2005f:76054**
Sato, Shuichi[1] A note on weighted estimates for certain classes of pseudo-differential operators. (English summary) **2005k:35446**
Sauer, Niko Stokes-like equations. **2005b:35231**
Sawada, Okihiro *see* **Giga, Yoshikazu, 2005f:35241**
Sazonov, L. I. On the stability of periodic solutions of the Navier-Stokes system in a three-dimensional exterior domain. (Russian. Russian summary) **2005b:35225**
— Justification of the asymptotic expansion of the solution of a two-dimensional flow problem for small Reynolds numbers. (Russian. Russian summary) **2005c:35233**
Scarpellini, Bruno Fast decaying solutions of the Navier-Stokes equation and asymptotic properties. (English summary) **2005c:35234**
Schaerer, Christian E. (*with* Kaszkurewicz, Eugenius; Mangiavacchi, Norberto) A multilevel Schwarz shooting method for the solution of the Poisson equation in two dimensional incompressible flow simulations. (English summary) **2005a:76125**
Schlatter, P. (*with* Adams, Nikolaus A.; Kleiser, L.) A windowing method for periodic inflow/outflow boundary treatment of non-periodic flows. (English summary) **2005k:76102**
Schmalfuß, Björn *see* **Langa, José A., 2005f:37169**
Schmidt, Paul Günter *see* **Charina, Maria et al., 2005f:76110**
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Sedqi, A. M. *see* **Ismail, I. A. et al., 2005g:76089**
Segal, August *see* **Vidović, Dragan et al., 2005a:76108**
Sénéor, R. Global and perturbative approach to some equations of fluid dynamics. (English summary) **2005i:60123**
Sengupta, T. K. (*with* Guntaka, A.; Dey, S.) Navier-Stokes solution by new compact scheme for incompressible flows. (English summary)
Serëgin, G. A. (*with* Šverák, Vladimir) The Navier-Stokes equations and backward uniqueness. (English summary) **2005j:35173**
— (*with* Šverák, Vladimir) On smoothness of suitable weak solutions to the Navier-Stokes equations. (English and Russian summaries) **2005f:35249**
— *see also* **Trends in partial differential equations of mathematical physics, 2005j:00021**
Serifi, K. *see* **Argyriadi, K. et al., 2005b:76014**
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Shadid, John N. *see* **Bochev, Pavel B. et al., 2005e:65128**
Shahgholian, Henrik *see* **Hakobyan, A., 2005i:35284**
Sharma, Pawan Kumar[2] (*with* Chaudhary, R. C.) Magnetohydrodynamics effect on three-dimensional viscous incompressible flow between two horizontal parallel porous plates and heat transfer with periodic injection/suction. (English summary) **2005k:76139**
Shaw, Simon C. *see* **Karamanou, Marianna et al., 2005g:74053**
Shcheprov, A. V. Obtaining analytic solutions of Navier-Stokes equations for axisymmetric and plane flows of a viscous incompressible fluid. (Russian) **2005f:35250**
Shen, Jie[1] *see* **Guermond, Jean-Luc, 2005f:65113** *and* **2005k:76076**
Shepherd, Theodore G. *see* **Tran, Chuong V. et al., 2005g:76064**

Sheu, Tony W. H. (*with* Lin, R. K.) On a high-order Newton linearization method for solving the incompressible Navier-Stokes equations. (English summary) **2005j:65131**
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Shilkin, T. *see* **Consiglieri, L. et al.**, **2005k:35313**
Shirikyan, Armen A version of the law of large numbers and applications. (English summary) **2005j:60063**
— Exponential mixing for 2D Navier-Stokes equations perturbed by an unbounded noise. (English summary) **2005c:37160**
— *see also* **Kuksin, Sergei B.**, **2005c:60079**; **2005e:35214** *and* **2005g:37103**
Shishkov, A. E. *see* **Taranets, R. M.**, **2005d:35124**
Shkadov, V. Ya. (*with* Velarde, Manuel G.; Shkadova, V. P.) Falling films and the Marangoni effect. (English summary) **2005e:76010**
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Shkalikov, A. A. Invariant subspaces of dissipative operators in Krein space and Sobolev problem on a rotating top. (English summary) **2005j:47040**
Shorygin, P. O. Approximate controllability of the Navier-Stokes system in unbounded domains. (Russian. Russian summary) **2005c:93013**
— Approximate controllability of the Navier-Stokes system specified in an unbounded domain. (Russian. Russian summary) **2005e:93025**
Siddiqui, Abdul Majeed *see* **Mohyuddin, Muhammad R. et al.**, **2005a:76132**
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Simon, Jacques *see* **Langa, José A. et al.**, **2005h:60187**
Sinaĭ, Ya. G. Mathematical hydrodynamics.
— *see also* **Dinaburg, E. I.**, **2005g:35231**
Siriwardana, N. (*with* Schultz, David H.) A high order method to solve the steady state Navier Stokes equations. (English summary)
Skalák, Zdeněk Additional note on partial regularity of weak solutions of the Navier-Stokes equations in the class $L^{\infty}(0, T, L^3(\Omega)^3)$. (English summary) **2005i:35215**
— (*with* Kučera, Petr[2]) Regularity of pressure in the neighbourhood of regular points of weak solutions of the Navier-Stokes equations. (English summary) **2005g:35237**
Smaoui, Hassan *see* **Boughanim, Fouad et al.**, (**2005i:35003**)
Smaoui, Nejib (*with* Mekkaoui, Mona) The generalized Burgers equation with and without a time delay. **2005d:35230**
— (*with* Al-Enezi, Suad) Modelling the dynamics of nonlinear partial differential equations using neural networks. (English summary) **2005b:37205**
— Linear versus nonlinear dimensionality reduction of high-dimensional dynamical systems. (English summary) **2005c:37155**
Smith, Frank T. *see* **Purvis, R.**, **2005k:76040**
Smith, Warren R. The propagation and basal solidification of two-dimensional and axisymmetric viscous gravity currents. (English summary) **2005m:80004**
Sobol, Zeev *see* **Röckner, Michael**, **2005e:60135**
Sohr, H. *see* **Galdi, Giovanni P. et al.**, **2005k:35315**
Solonnikov, Vsevolod Alekseevich L_q-estimates for a solution to the problem about the evolution of an isolated amount of a fluid. (English summary) **2005i:35224**
— On the stability of axisymmetric equilibrium figures of a rotating viscous incompressible fluid. (Russian. Russian summary) **2005d:76016**
— The problem on evolution of a self-gravitating isolated fluid mass that is not subject to the surface tension forces. (English summary) **2005f:35337**
Soto, Orlando *see* **Codina, Ramon**, **2005b:76082**
de Sousa, F. S. (*with* Mangiavacchi, Norberto; Nonato, L. G.; Castelo, A.; Tomé, M. F.; Ferreira, V. G.; Cuminato, J. A.; McKee, Sean) A front-tracking/front-capturing method for the simulation of 3D multi-fluid flows with free surfaces. (English summary) **2005b:76099**
Spasov, Yulian *see* **Hintermüller, Michael et al.**, **2005f:76044**
Specovius-Neugebauer, Maria *see* **Nazarov, Sergei A. et al.**, **2005c:35231** *and* **2005d:35212**
Speetjens, M. F. M. (*with* Clercx, H. J. H.) A spectral solver for the Navier-Stokes equations in the velocity-vorticity formulation. (English summary) **2005m:76127**
Steinhauer, Mark ★ On analysis of some nonlinear systems of partial differential equations of continuum mechanics. (English summary) **2005h:35341**
Stockie, John M. *see* **Cortez, Ricardo et al.**, **2005i:74026**
Suidan, Toufic M. *see* **Mattingly, Jonathan C.**, **2005m:76145**
Suito, Hiroshi (*with* Kawarada, Hideo) Numerical simulation of spilled oil by fictitious domain method. (English summary) **2005a:76008**
Sun, Jian Hua[1] *see* **Wang, Wei[6] et al.**, **2005c:35245**
Sun, Shun-kai *see* **He, Li-Ping**, **2005f:65134**
Sundar, Padamanbhan A note on the solution of a stochastic partial differential equation. (English summary) **2005b:60158**
Sundberg, S. (*with* von Sydow, Lina) Semi-Toeplitz preconditioning for the linearized Navier-Stokes equations. (English summary) **2005k:76103**
Šverák, Vladimir *see* **Serëgin, G. A.**, **2005f:35249** *and* **2005j:35173**
Swann, Howard On solenoidal high-degree polynomial approximations to solutions of the stationary Navier-Stokes equations. (English summary) **2005f:65159**
von Sydow, Lina *see* **Sundberg, S.**, **2005k:76103**
Szmolyan, Peter *see* **Popović, Nikola**, **2005c:34108**
Tagami, Daisuke *see* **Kanayama, Hiroshi et al.**
Tang, Tao *see* **Di, Yana et al.**, **2005j:65107**
Taniguchi, Takeshi The exponential behavior of Navier-Stokes equations with time delay external force. (English summary) **2005k:35323**
Taniuchi, Yasushi *see* **Kozono, Hideo et al.**, **2005f:35244** *and* **Ogawa, Takayoshi**, **2005j:35170**
Taranets, R. M. (*with* Shishkov, A. E.) The effect of time delay of support propagation in equations of thin films. (Russian. English and Russian summaries) **2005d:35124**
Tebaldi, Claudio[1] *see* **Basurto, M.**, (**2005c:00016**)
Temam, Roger (*with* Ziane, Mohammed) Some mathematical problems in geophysical fluid dynamics. (English summary) **2005h:35275**
— *see also* **Jauberteau, F.**, **2005b:86001**
Thailert, K. (*with* Meleshko, S. V.) On partially invariant solutions of the Navier-Stokes equations. (English summary) (*see* **2005c:00016**)
Tiwari, Sudarshan (*with* Kuhnert, Jörg) A meshfree method for incompressible fluid flows with incorporated surface tension. **2005f:76077**
Tomé, M. F. *see* **de Sousa, F. S. et al.**, **2005b:76099**
Tran, Chuong V. (*with* Shepherd, Theodore G.; Cho, Han-Ru) Extensivity of two-dimensional turbulence. (English summary) **2005g:76064**
Traversoni Domínguez, Leonardo Vorticity problems treated with double quaternions. (English summary)
Tretter, Christiane *see* **Kopachevskii, Nikolai D. et al.**, **2005j:34088**
Triggiani, Roberto Interior and boundary stabilization of Navier-Stokes equations. (English summary) **2005e:93136**
— *see also* **Barbu, Viorel**, **2005k:93169**
Tromeur-Dervout, Damien Krylov method algorithms adapted to the grid computing. (English summary) (*see* **2005b:76005**)
Truman, Aubrey (*with* Wu, Jiang-Lun) Stochastic Burgers equation with Lévy space-time white noise. (English summary) **2005k:60206**
— *see also* **Davies, Ian M. et al.**, **2005m:60132**
Tsai, Chiung-Chiou (*with* Yang, Suh-Yuh) Error analysis of the L^2 least-squares finite element method for incompressible inviscid rotational flows. (English summary) **2005g:76079**
Tsangaris, Sokrates *see* **Kondaxakis, Dimitris**, **2005a:76114**
Tsinober, A. *see* **Galanti, B.**, **2005e:76053**
Tsivinskaya, Yu. S. *see* **Popov, Viktor Nikolaevich et al.**, (**2005i:65006**)
Ünal, V. Ü. (*with* Gülçat, Ü.) Parallel implicit solution of full Navier-Stokes equations. (English summary) (*see* **2005g:00014**)
Ungarish, Marius Dam-break release of a gravity current in a stratified ambient. (English summary) **2005m:76032**
(Urbano, José Miguel) *see* **Trends in partial differential equations of mathematical physics**, **2005j:00021**
Vabishchevich, Petr N. *see* **Churbanov, A. G.**, (**2005b:76005**)
Vacca, Andrea *see* **Manna, Marcello et al.**, **2005f:76073**
Varela, Douglas *see* **Cortez, Ricardo et al.**, **2005i:74026**
Vasilevskiĭ, Yu. V. *see* **Lipnikov, K.**, (**2005b:76005**)
Vasseur, Alexis *see* **Goudon, Thierry et al.**, **2005k:35334** *and* **2005k:35335**
Vaz, Cristina Lúcia Dias *see* **Boldrini, José Luiz**, **2005b:35302**
Vázquez, Juan Luis The Navier-Stokes equation: a physico-mathematical challenge for the XXIst century. (Spanish. Spanish summary) **2005k:35324**
Velamur Asokan, Badrinarayanan (*with* Zabaras, Nicholas) Variational multiscale stabilized FEM formulations for transport equations: stochastic advection-diffusion and incompressible stochastic Navier-Stokes equations. (English summary) **2005f:76068**
Velarde, Manuel G. *see* **Shkadov, V. Ya. et al.**, **2005e:76010**
Veneziani, Alessandro *see* **Gauthier, Alain et al.**, **2005a:76122**
Verbeke, Cédric *see* **Hamouda, Makram et al.**, **2005g:35242**
Viazzo, Stéphane *see* **Abide, Stéphane**, **2005k:76092**
Videman, Juha H. *see* **Nazarov, Sergei A. et al.**, **2005c:35231**
Vidović, Dragan (*with* Segal, August; Wesseling, P.) A superlinearly convergent finite volume method for the incompressible Navier-Stokes equations on staggered unstructured grids. (English summary) **2005a:76108**
Vlachakis, N. (*with* Pavlou, D.; Vlachakis, V.; Pavlou, M.; Kouskouti, M.) An exact solution of Navier-Stokes equations for the flow through a diverging artery. (English summary) (*see* **2005b:76003**)
Vlachakis, V. *see* **Vlachakis, N. et al.**, (**2005b:76003**)
Voevodin, A. F. (*with* Protopopova, T. V.) The use of higher-order schemes to compute viscous incompressible flows. (*see* **2005i:65006**)
Volkwein, Stefan *see* **Hintermüller, Michael et al.**, **2005f:76044**
Vol′pert, Vit. A. *see* **Belk, Michaël**, **2005a:80004**
Vukadinovic, Jesenko Density of global trajectories for filtered Navier-Stokes equations. (English summary) **2005d:35206**
Wall, Wolfgang A. *see* **Gravemeier, Volker et al.**, **2005b:76086**
Walther, Jens H. *see* **Werder, Thomas et al.**, (**2005d:65007**)
Wan, W. L. *see* **Hill, Adrian T.**, **2005f:65127**
Wang, Cheng[4] *see* **Ghil, Michael et al.**, **2005g:76036**
Wang, He Yuan (*with* Li, Kai Tai) Spectral Galerkin approximation of Couette-Taylor flow. (Chinese. English and Chinese summaries) **2005i:65150**
— (*with* Li, Kai Tai; Zhang, Yindi) Spectral approximation of TB point of the Navier-Stokes equations in two concentric rotating spheres. (English summary) **2005a:76115**
— (*with* Ding, Su Zhen; Xi, Zhu You) Numerical simulation of spherical Couette flow (Chinese. English and Chinese summaries)
Wang, Qi[2] *see* **Bechtel, Stephen E. et al.**
Wang, Shou Hong *see* **Ma, Tian**, **2005c:37168** *and* **Ghil, Michael et al.**, **2005g:76036**
Wang, Shu Quasineutral limit of Euler-Poisson system with and without viscosity. (English summary) **2005i:35225**
Wang, Wei[6] (*with* Sun, Jian Hua[1]; Duan, Jin Qiao) Dynamics of the thermohaline circulation under uncertainty. (English summary) **2005c:35245**
Wang, Wei-Cheng *see* **Liu, Jian-Guo[1]**
Wang, Wen Qia A class of alternating group method of Burgers' equation. (Chinese English and Chinese summaries) **2005h:65141**
Wang, Xiao Ming[1] Large Prandtl number behavior of the Boussinesq system of Rayleigh-Bénard convection. (English summary) **2005g:76052**
— Infinite Prandtl number limit of Rayleigh-Bénard convection. (English summary) **2005d:76015**
Wang, Xiaodong *see* **Liu, Yaling et al.**, **2005h:92011**
Warby, M. K. *see* **Karamanou, Marianna et al.**, **2005g:74053**
Watanabe, Hisao Diffusion-approximations for Navier-Stokes equation in space-time Gaussian velocity field. (English summary) **2005k:60208**
Waymire, Edward C. Probability & incompressible Navier-Stokes equations: an overview of some recent developments. (English summary) **2005j:76071**
Wayne, C. Eugene *see* **Gallay, Thierry**, **2005m:35224**
Wells, Garth N. *see* **Hughes, Thomas J. R.**, **2005j:76060**
Werder, Thomas (*with* Walther, Jens H.; Asikainen, Joonas; Koumoutsakos, Petros) Continuum-particle hybrid methods for dense fluids. (English summary) (*see*

2005d:65007)
Wesseling, P. *see* **Vidović, Dragan et al., 2005a:76108**
Wheeler, Mary Fanett *see* **Girault, Vivette et al., 2005f:65149**
Whiteman, J. R. *see* **Karamanou, Marianna et al., 2005g:74053**
Wilchinsky, Alexander V. (*with* Feltham, Daniel L.) Stability of an ice sheet on an elastic bed. (English summary) **2005b:86020**
Wiwatanapataphee, Benchawan *see* **Wu, Yong Hong[1] et al.**
Wu, E-zi *see* **Dong, Bo-qing et al.**
Wu, Jiang-Lun *see* **Truman, Aubrey, 2005k:60206**
Wu, Yong Hong[1] (*with* Wiwatanapataphee, Benchawan; Yu, Xijun) An enthalpy control volume method for transient mass and heat transport with solidification. (English summary)
Xi, Zhu You *see* **Wang, He Yuan et al.**
Xiao, Ling (*with* Jiang, Song) Nonlinear hyperbolic-parabolic coupled systems. **2005j:35181**
Xin, Zhou Ping *see* **Jiu, Quan Sen, 2005i:35210**
Xu, Jian Jun[1] Dynamics of dendritic growth interacting with convective flow. (English summary) **2005d:80006**
Xu, Kun *see* **Li, Qibing et al., 2005m:76142**
Yagisita, Hiroki *see* **Nakamura, Ken-Ichi et al., 2005a:76037**
Yan, Xiaodong On limits to convective heat transport at infinite Prandtl number with or without rotation. (English summary) **2005f:76094**
Yang, Suh-Yuh *see* **Tsai, Chiung-Chiou, 2005g:76079**
Yasue, Ayako Bessel-like processes and SDE. **2005k:60188**
Yatsu, Naoki *see* **Kozono, Hideo, 2005b:35223**
Ying, Gen Jun *see* **Ren, Chun Feng et al., 2005k:76101**
Yu, Xijun *see* **Wu, Yong Hong[1] et al.**
Yu, Yongjiang (*with* Li, Kai Tai) Gevrey class regularity for the viscous Camassa-Holm equations. (English summary)
Zabaras, Nicholas *see* **Velamur Asokan, Badrinarayanan, 2005f:76068**
Zajączkowski, Wojciech M. Global existence of axially symmetric solutions to Navier-Stokes equations with large angular component of velocity. (English summary) **2005i:35216**
— Global special regular solutions to the Navier-Stokes equations in a cylindrical domain without the axis of symmetry. (English summary) **2005k:35325**
Zakharchenko, P. A. (*with* Radkevich, E. V.) The central manifold and problems of the Chapman-Enskog projection for the Boltzmann-Peierls equation. (Russian) **2005j:82072**
Zaleskis, L. *see* **Pileckas, K., 2005g:35308**
Zavalishchin, S. T. Necessary conditions for optimal flow around a body in a viscous medium. (English summary) **2005a:76066**
Zecca, Pietro *see* **Obukhovskiĭ, V. V. et al., 2005f:49008**
Zhang, Han Xin *see* **Liu, Miao Er et al., 2005g:76092**
Zhang, Linghai On the modified Navier-Stokes equations in n-dimensional spaces. **2005j:76027**
Zhang, Lucy *see* **Liu, Yaling et al., 2005h:92011**
Zhang, Ping Wen *see* **Di, Yana et al., 2005j:65107**
Zhang, Qi S. Global solutions of Navier-Stokes equations with large L^2 norms in a new function space. (English summary) **2005j:35174**
Zhang, Qinfen *see* **Quecedo, Manuel et al., 2005m:76118**
Zhang, Yindi *see* **Wang, He Yuan et al., 2005a:76115**
Zhao, Cai-di Existence and uniqueness of weak solutions for two-dimensional modified Navier-Stokes equations. (English summary) **2005i:35217**
— *see also* **Dong, Bo-qing et al.**
Zhao, Chunshan *see* **He, Yinnian et al., 2005g:65144**
Zhao, Huai Zhong *see* **Davies, Ian M. et al., 2005m:60132**
Zhou, Xiao Lin[1] (*with* He, Yinnian) Using divergence free wavelets for the numerical solution of the 2-D stationary Navier-Stokes equations. (English summary) **2005j:76069**
Zhou, Yong[4] Direction of vorticity and a new regularity criterion for the Navier-Stokes equations. (English summary) **2005j:35182**
Zhu, Baoshan Finite volume solution of the Navier-Stokes equations in velocity-vorticity formulation. (English summary)
Ziane, Mohammed *see* **Temam, Roger, 2005h:35275**
Zubelevich, Oleg On regularity of stationary solutions to the Navier-Stokes equation in 3-D torus. (English summary) **2005k:35326**
Zvyagin, Viktor *see* **Obukhovskiĭ, V. V. et al., 2005f:49008**

Items listed otherwise than by author

Contributions to current challenges in mathematical fluid mechanics ★ Contributions to current challenges in mathematical fluid mechanics. **2005c:35003**
Handbook:
Mathematical fluid dynamics, Vol. III ★ Handbook of mathematical fluid dynamics. Vol. III. **2005f:76002**
Óbidos ★ Trends in partial differential equations of mathematical physics. **2005j:00021**
Trends in partial differential equations of mathematical physics ★ Trends in partial differential equations of mathematical physics. **2005j:00021**

76D06 Statistical solutions of Navier-Stokes and related equations [see also 60H30, 76M35]

Ishimura, Naoyuki (*with* Ushijima, Takeo K.) An elementary approach to the analysis of exact solutions for the Navier-Stokes stagnation flows with slips. (English summary) **2005c:76033**
Ushijima, Takeo K. *see* **Ishimura, Naoyuki, 2005c:76033**

Items with secondary classifications in 76D06

Al'beverio, S. (*with* Belopol'skaya, Ya. I.) Probabilistic approach to hydrodynamic equations. (English summary) **2005g:76096**
Belopol'skaya, Ya. I. *see* **Al'beverio, S., 2005g:76096**
Mattingly, Jonathan C. On recent progress for the stochastic Navier Stokes equations. (English summary) **2005b:60155**
Robert, Raoul Statistical hydrodynamics (Onsager revisited). **2005a:76004**

76D07 Stokes and related (Oseen, etc.) flows

Abdellatif, Nehla (*with* Bernardi, Christine) A new formulation of the Stokes problem in a cylinder, and its spectral discretization. (English summary) **2005k:76028**
Aktar, N. (*with* Rahman, Fouzia; Sen, Sujit Kumar) Stokes flow due to fundamental singularities before a plane boundary. (English summary)
Amaranath, T. *see* **Venkatalaxmi, A. et al., 2005a:76054** *and* **2005b:76040**
Bagewadi, C. S. (*with* Siddabasappa) Solutions for steady incompressible flow with variable viscosity. (English summary) **2005a:76049**
Bernardi, Christine *see* **Abdellatif, Nehla, 2005k:76028**
Bhattacharyya, Anindita (*with* Raja Sekhar, G. P.) Stokes flow inside a porous spherical shell: stress jump boundary condition. (English summary) **2005k:76029**
Blawzdziewicz, J. (*with* Wajnryb, E.; Given, James A.; Hubbard, J. B.) Sharp scalar and tensor bounds on the hydrodynamic friction and mobility of arbitrarily shaped bodies in Stokes flow. (English summary) **2005k:76030**
Bortone, Carlo (*with* Starita, Giulio) On the motion of a rigid body in a Stokes fluid. (English summary) **2005e:76032**
Brenner, Howard *see* **Yariv, Ehud et al., 2005a:76055**
Cortez, Ricardo (*with* Fauci, Lisa; Medovikov, A. A.) The method of regularized Stokeslets in three dimensions: analysis, validation, and application to helical swimming. (English summary) **2005k:76031**
Cox, Christopher L. *see* **Waters, L. K. et al., 2005i:76038**
Crowdy, Darren (*with* Siegel, Michael) Exact solutions for the evolution of a bubble in Stokes flow: a Cauchy transform approach. (English summary) **2005m:76053**
Dassios, George (*with* Vafeas, Panayiotis) Comparison of differential representations for radially symmetric Stokes flow. **2005a:76050**
Fauci, Lisa *see* **Cortez, Ricardo et al., 2005k:76031**
Fix, George J., III *see* **Waters, L. K. et al., 2005i:76038**
Given, James A. *see* **Blawzdziewicz, J. et al., 2005k:76030**
Gomilko, A. M. (*with* Malyuga, V. S.; Meleshko, V. V.; Verbruggen, M. G. J.) Stokes flow past an array of annular disks. (English summary) **2005m:76054**
Götz, Thomas Simulating particles in Stokes flow. (English summary) **2005g:76033**
Gramlich, C. M. (*with* Mazouchi, Ali; Homsy, G. M.) Time-dependent free surface Stokes flow with a moving contact line. II. Flow over wedges and trenches. (English summary) **2005a:76053**
— *see also* **Mazouchi, Ali et al., 2005a:76052**
Gürcan, Fuat Streamline topologies near a stationary wall of Stokes flow in a cavity. (English summary) **2005m:76055**
Hellou, Mustapha Inversion transformation of Stokes flows bounded by parallel planes. (English summary) **2005g:76034**
Homsy, G. M. *see* **Mazouchi, Ali et al., 2005a:76052** *and* **Gramlich, C. M. et al., 2005a:76053**
Hubbard, J. B. *see* **Blawzdziewicz, J. et al., 2005k:76030**
Kargin, A. V. A numerical-analytic method for solving the generalized Stokes problem. (Russian) (*see* **2005b:00029**)
Keller, Joseph B. Artificial boundary conditions for axisymmetric slow viscous flow. (English summary)
Kim, Sangtae *see* **Yariv, Ehud et al., 2005a:76055**
Kohr, Mirela The study of a Stokes flow by the boundary integral equation method. (English summary) **2005i:76036**
— (*with* Pop, Ioan[2]) ★ Viscous incompressible flow for low Reynolds numbers. **2005k:76032**
— An application of the method of matched asymptotic expansions for low Reynolds number flow past a cylinder of arbitrary cross section. (English summary) **2005j:76030**
Labrosse, Gérard *see* **Leriche, E., 2005m:76056**
Lauga, Eric (*with* Stroock, Abraham D.; Stone, Howard A.) Three-dimensional flows in slowly varying planar geometries. (English summary) **2005b:76039**
Leriche, E. (*with* Labrosse, Gérard) Fundamental Stokes eigenmodes in the square: which expansion is more accurate, Chebyshev or Reid-Harris? (English summary) **2005m:76056**
Li, Kai Tai *see* **Wang, He Yuan, 2005e:76034**
Maazouz, Abderrim (*with* Mikelić, Andro; Pousin, Jérôme; Zeltz, Eric) Fluid injection model without surface tension for resins in thin molds. (English summary) **2005a:76051**
Malyuga, V. S. *see* **Gomilko, A. M. et al., 2005m:76054**
Masuoka, Takashi *see* **Tan, Wenchang, 2005i:76037**
Mazouchi, Ali (*with* Gramlich, C. M.; Homsy, G. M.) Time-dependent free surface Stokes flow with a moving contact line. I. Flow over plane surfaces. (English summary) **2005a:76052**
— *see also* **Gramlich, C. M. et al., 2005a:76053**
Medovikov, A. A. *see* **Cortez, Ricardo et al., 2005k:76031**
Meleshko, V. V. *see* **Gomilko, A. M. et al., 2005m:76054**
Mikelić, Andro *see* **Maazouz, Abderrim et al., 2005a:76051**
Padmavathi, B. S. *see* **Venkatalaxmi, A. et al., 2005a:76054** *and* **2005b:76040**
Pop, Ioan[2] *see* **Kohr, Mirela, 2005k:76032**
Pousin, Jérôme *see* **Maazouz, Abderrim et al., 2005a:76051**
Rahman, Fouzia *see* **Aktar, N. et al.**
Raja Sekhar, G. P. *see* **Bhattacharyya, Anindita, 2005k:76029**
Sac-Épée, J.-M. (*with* Taous, K.) On the behaviour of a diphasic flow with a weak relative viscosity. **2005e:76033**
Sen, Sujit Kumar *see* **Aktar, N. et al.**
Siddabasappa *see* **Bagewadi, C. S., 2005a:76049**
Siegel, Michael *see* **Crowdy, Darren, 2005m:76053**
Starita, Giulio *see* **Bortone, Carlo, 2005e:76032**
Stone, Howard A. *see* **Lauga, Eric et al., 2005b:76039**
Stroock, Abraham D. *see* **Lauga, Eric et al., 2005b:76039**
Tan, Wenchang (*with* Masuoka, Takashi) Stokes' first problem for an Oldroyd-B fluid in a porous half space. (English summary) **2005i:76037**
Taous, K. *see* **Sac-Épée, J.-M., 2005e:76033**

Vafeas, Panayiotis *see* **Dassios, George, 2005a:76050**
Venkatalaxmi, A. (*with* Padmavathi, B. S.; Amaranath, T.) A general solution of unsteady Stokes equations. (English summary) **2005b:76040**
— (*with* Padmavathi, B. S.; Amaranath, T.) Unsteady Stokes equations: some complete general solutions. (English summary) **2005a:76054**
Verbruggen, M. G. J. *see* **Gomilko, A. M. et al., 2005m:76054**
Voinov, O. V. Asymptotic properties of an axisymmetric Stokes flow of a viscous fluid with intersecting boundaries. (Russian)
Wajnryb, E. *see* **Blawzdziewicz, J. et al., 2005k:76030**
Wang, He Yuan (*with* Li, Kai Tai) Numerical simulation of spherical Couette flow. (English summary) **2005e:76034**
Waters, L. K. (*with* Fix, George J., III; Cox, Christopher L.) The method of Glowinski and Pironneau for the unsteady Stokes problem. (English summary) **2005i:76038**
Yariv, Ehud (*with* Brenner, Howard; Kim, Sangtae) Curvature-induced dispersion in electro-osmotic serpentine flows. (English summary) **2005a:76055**
Zeltz, Eric *see* **Maazouz, Abderrim et al., 2005a:76051**
Zimmerman, William B. J. On the resistance of a spherical particle settling in a tube of viscous fluid. (English summary)

Items with secondary classifications in 76D07

Abboud, T. (*with* Salaün, M.; Salmon, Stéphanie) Coupling harmonic functions–finite elements for solving the stream function–vorticity Stokes problem. (English summary) **2005h:65203**
Akhmetov, R. G. Asymptotic expansion of the solution of the convective diffusion problem in the wake of a droplet. (Russian. Russian summary) **2005g:76109**
Alame, Wisam On existence of solutions for the nonstationary Stokes system with boundary slip conditions. (English summary) **2005m:35230**
Alves, Carlos J. S. (*with* Silvestre, Ana Leonor) On the determination of point-forces on a Stokes system. (English summary) **2005b:35287**
Aman, M. (*with* Kerayechian, A.) The sensitivity analysis of the linear programming methods for the Stokes problem. (English summary)
— (*with* Kerayechian, A.) Solving the Stokes problem by linear programming methods. (English summary) **2005f:65143**
Amara, Mohamed (*with* Chacón-Vera, Eliseo; Trujillo, David) Vorticity-velocity-pressure formulation for Stokes problem. (English summary) **2005d:65201**
Balint, A. M. (*with* Kaslik, E.; Balint, Ş.t.) On the convergence of the solution of the transport equation in a periodic porous medium of a passive solute, when convection and diffusion balance each other at microscopic level and the flow is a Stokes flow. (English summary) **2005i:76101**
Balint, Ş.t. *see* **Balint, A. M. et al., 2005i:76101**
Barth, Teri (*with* Bochev, Pavel B.; Gunzburger, Max D.; Shadid, John N.) A taxonomy of consistently stabilized finite element methods for the Stokes problem. (English summary) **2005c:76061**
Bayada, Guy (*with* Chambat, M.; Cid, B.; Vázquez Cendón, C.) On the existence of solution for a nonhomogeneous Stokes-rod coupled problem. (English summary) **2005h:35276**
Belhachmi, Zakaria Residual a posteriori error estimates for a 3D mortar finite-element method: the Stokes system. (English summary) **2005e:65172**
Ben Belgacem, Faker A stabilized domain decomposition method with nonmatching grids for the Stokes problem in three dimensions. (English summary) **2005i:65176**
Bernard, Jean-Marie Spectral discretizations of the Stokes equations with non standard boundary conditions. (English summary) **2005c:65108**
Bernardi, Christine (*with* Girault, Vivette; Hecht, Frédéric) A posteriori analysis of a penalty method and application to the Stokes problem. (English summary) **2005d:65202**
— (*with* Verfürth, Rüdiger) A posteriori error analysis of the fully discretized time-dependent Stokes equations. (English summary) **2005g:65131**
Blanc, Philippe (*with* Eymard, Robert; Herbin, Raphaèle) An error estimate for finite volume methods for the Stokes equations on equilateral triangular meshes. (English summary) **2005k:65227**
Bochev, Pavel B. (*with* Gunzburger, Max D.) Least-squares finite-element methods for optimization and control problems for the Stokes equations. (English summary) **2005j:76056**
— (*with* Gunzburger, Max D.) An absolutely stable pressure-Poisson stabilized finite element method for the Stokes equations. (English summary) **2005k:65223**
— *see also* **Dohrmann, Clark R., 2005b:76084** *and* **Barth, Teri et al., 2005c:76061**
Bolton, P. (*with* Thatcher, R. W.) On mass conservation in least-squares methods. (English summary) **2005h:65207**
Chacón-Vera, Eliseo *see* **Amara, Mohamed et al., 2005d:65201**
Chambat, M. *see* **Bayada, Guy et al., 2005h:35276**
Chechel', I. I. *see* **Pal'tsev, B. V., 2005m:76116**
Chen, Hongsen Interior superconvergence of finite element solutions for Stokes problems by local L^2 projections. (English summary) **2005e:65182**
Chizhonkov, E. V. (*with* Ivanchikov, A. A.) On numerical stabilization of solutions of Stokes and Navier-Stokes equations by the boundary conditions. (English summary) **2005g:76084**
Cid, B. *see* **Bayada, Guy et al., 2005h:35276**
Creusé, Emmanuel (*with* Nicaise, Serge; Kunert, Gerd) A posteriori error estimation for the Stokes problem: anisotropic and isotropic discretizations. (English summary) **2005g:65159**
Das, P. C. *see* **Kumar, V. V. K. Srinivas et al., 2005g:65170**
Dassios, George (*with* Vafeas, Panayiotis) The 3D Happel model for complete isotropic Stokes flow. (English summary) **2005k:35331**
— (*with* Payatakes, Alkiviades C.; Vafeas, Panayiotis) Interrelation between Papkovich-Neuber and Stokes general solutions of the Stokes equations in spheroidal geometry. (English summary) **2005d:35209**
Dimitrov, Atanas On singularities in the solution of three-dimensional Stokes flow and incompressible elasticity problems with corners. (English summary) **2005a:76098**
Discacciati, Marco (*with* Quarteroni, Alfio) Convergence analysis of a subdomain iterative method for the finite element approximation of the coupling of Stokes and Darcy equations. (English summary) **2005e:65142**
Djadel, K. (*with* Nicaise, Serge) Some refined finite volume element methods for the Stokes and Navier-Stokes systems with corner singularities. (English summary) **2005i:65162**
Dohrmann, Clark R. (*with* Bochev, Pavel B.) A stabilized finite element method for the Stokes problem based on polynomial pressure projections. (English summary) **2005b:76084**
Du, Qiang (*with* Gunzburger, Max D.; Hou, LiSheng; Lee, Jeehyun) Semidiscrete finite element approximations of a linear fluid-structure interaction problem. (English summary) **2005e:65143**
Eymard, Robert *see* **Blanc, Philippe et al., 2005k:65227**
Farhloul, Mohamed (*with* Nicaise, Serge; Paquet, Luc) A posteriori error estimation for the dual mixed finite element method of the Stokes problem. (English and French summaries)
Finlayson, Bruce A. *see* **Kusmanto, Febe et al., 2005e:76038**
Formaggia, Luca (*with* Micheletti, Stefano; Perotto, Simona) Anisotropic mesh adaption in computational fluid dynamics: application to the advection-diffusion-reaction and the Stokes problems. (English summary) **2005h:65191**
Gaskell, P. H. *see* **Walkley, M. A. et al., 2005j:76063**
Ghahreman, N. (*with* Kerayechian, A.) Preconditioners for the pressure-correction method applied to the unsteady Stokes problem. (English summary) **2005j:65103**
Girault, Vivette (*with* Rivière, Béatrice; Wheeler, Mary Fanett) A discontinuous Galerkin method with nonoverlapping domain decomposition for the Stokes and Navier-Stokes problems. (English summary) **2005f:65149**
— *see also* **Bernardi, Christine et al., 2005d:65202**
Gu, Haiming (*with* Wu, Xiao Nan) Alternating-direction iterative technique for mixed finite element methods for Stokes equations. (English summary)
Guermond, Jean-Luc Nonstandard nonconforming approximation of the Stokes problem. I. Periodic boundary conditions. (English summary) **2005i:76074**
Guillaume, Ph. (*with* Sid Idris, K.) Topological sensitivity and shape optimization for the Stokes equations. (English summary) **2005e:49081**
Guillén-González, F. (*with* Rodríguez Bellido, María Angeles; Rojas-Medar, Marko A.) Hydrostatic Stokes equations with non-smooth data for mixed boundary conditions. (English and French summaries) **2005h:35281**
Gunzburger, Max D. The inf-sup condition in mixed finite element methods with application to the Stokes system. (*see* **2005h:65004**)
— *see also* **Barth, Teri et al., 2005c:76061**; **Du, Qiang et al., 2005e:65143**; **Bochev, Pavel B., 2005j:76056** *and* **2005k:65223**
Hecht, Frédéric *see* **Bernardi, Christine et al., 2005d:65202**
Herbin, Raphaèle *see* **Blanc, Philippe et al., 2005k:65227**
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Hou, LiSheng *see* **Du, Qiang et al., 2005e:65143**
Houston, Paul (*with* Schötzau, Dominik; Wihler, Thomas P.) Mixed hp-discontinuous Galerkin finite element methods for the Stokes problem in polygons. (English summary) (*see* **2005j:65003**)
Ivanchikov, A. A. *see* **Chizhonkov, E. V., 2005g:76084**
Jabin, Pierre-Emmanuel (*with* Otto, Felix) Identification of the dilute regime in particle sedimentation. (English summary) **2005g:76123**
Jacobsen, Elissa L. *see* **Kusmanto, Febe et al., 2005e:76038**
Jimack, Peter K. *see* **Walkley, M. A. et al., 2005j:76063**
Jin, Jicheng *see* **Wu, Xiao Nan, 2005i:65193**
Kang, Kyungkeun Unbounded normal derivative for the Stokes system near boundary. (English summary) **2005h:35271**
Kannan, K. *see* **Venkataraman, V., 2005k:76125**
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Kerayechian, A. *see* **Aman, M., 2005f:65143** *and* **Ghahreman, N., 2005j:65103**
Kobayashi, Takayuki[2] (*with* Suzuki, Takashi[1]; Watanabe, Kazuo[1]) Interface regularity for Maxell and Stokes systems. [Interface regularity for Maxwell and Stokes systems] **2005d:35026**
Kucher, V. A. (*with* Markenscoff, Xanthippi) The Cosserat eigenfunctions for the elliptic exterior problem with applications to thermoelasticity and Stokes flow. (English summary) **2005i:35070**
Kumar, V. V. K. Srinivas (*with* Ratish Kumar, B. V.; Das, P. C.) A new class of stabilized mesh-free finite elements for the approximation of the Stokes problem. (English summary) **2005g:65170**
Kunert, Gerd *see* **Creusé, Emmanuel et al., 2005g:65159**
Kusmanto, Febe (*with* Jacobsen, Elissa L.; Finlayson, Bruce A.) Applicability of continuum mechanics to pressure drop in small orifices. (English summary) **2005e:76038**
Kuttykozhaeva, Sh. N. (*with* Smagulov, Sh.; Tukenova, L.) Estimation of pressure boundary conditions with the fictitious domains method for viscous incompressible liquid equations. (English summary) (*see* **2005i:65006**)
Kweon, Jae Ryong A posteriori error estimates for a compressible Stokes system. (English summary) **2005k:65229**
Labrosse, Gérard *see* **Leriche, E., 2005e:76031**
Lee, Jeehyun *see* **Du, Qiang et al., 2005e:65143**
Leriche, E. (*with* Labrosse, Gérard) Stokes eigenmodes in square domain and the stream function-vorticity correlation. (English summary) **2005e:76031**
Lin, Changhao (*with* Payne, Lawrence E.) Spatial decay bounds in the channel flow of an incompressible viscous fluid. (English summary) **2005d:35202**
Lin, Jia Fu (*with* Lin, Qun[1]) Superconvergence of a mixed finite element approximation for a Stokes problem. (Chinese. English and Chinese summaries) **2005k:65255**
— (*with* Lin, Qun[1]) Extrapolation of the Hood-Taylor elements for the Stokes problem. (English summary) **2005m:65274**
Lin, Qun[1] *see* **Lin, Jia Fu, 2005k:65255** *and* **2005m:65274**
Lipnikov, K. (*with* Vasilevskiĭ, Yu. V.) Parallel adaptive solution of the Stokes and Oseen problems on unstructured 3D meshes. (English summary) (*see* **2005b:76005**)
Louter-Nool, Margreet (*with* Proot, Michael M. J.) A parallel least-squares spectral element solver for incompressible flow problems on unstructured grids. (English

summary) **2005m:65290**
Maharavo Randrianarivony, H. Anisotropic finite elements for the Stokes problem: a posteriori error estimator and adaptive mesh. (English summary) **2005f:65155**
Mardal, Kent-Andre (*with* Winther, Ragnar) Uniform preconditioners for the time dependent Stokes problem. (English summary) **2005g:65063**
Markenscoff, Xanthippi *see* **Kucher, V. A., 2005i:35070**
Masmoudi, Nader Some uniform elliptic estimates in a porous medium. (English and French summaries) **2005h:35044**
Micheletti, Stefano *see* **Formaggia, Luca et al., 2005h:65191**
Nazarov, Sergei A. (*with* Specovius-Neugebauer, Maria) Optimal results for the Brezzi-Pitkäranta approximation of viscous flow problems. (English summary) **2005i:35212**
Nicaise, Serge *see* **Creusé, Emmanuel et al., 2005g:65159**; **Djadel, K., 2005i:65162** *and* **Farhloul, Mohamed et al.**
Nochetto, Ricardo H. (*with* Pyo, Jae-Hong) Optimal relaxation parameter for the Uzawa method. (English summary) **2005h:65052**
Ol′shanskiĭ, M. A. (*with* Reusken, Arnold) Grad-div stabilization for Stokes equations. (English summary) **2005a:65137**
van Os, R. G. M. (*with* Phillips, T. N.) Spectral element methods for transient viscoelastic flow problems. (English summary) **2005f:76074**
Otto, Felix *see* **Jabin, Pierre-Emmanuel, 2005g:76123**
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Ratish Kumar, B. V. *see* **Kumar, V. V. K. Srinivas et al., 2005g:65170**
Repin, S. I. Local a posteriori estimates for the Stokes problem. (English and Russian summaries) **2005j:35180**
Reusken, Arnold *see* **Ol′shanskiĭ, M. A., 2005a:65137**
Rivière, Béatrice Analysis of a multi-numerics/multi-physics problem. (English summary) (*see* **2005j:65003**)
— *see also* **Girault, Vivette et al., 2005f:65149**
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Salmon, Stéphanie *see* **Abboud, T. et al., 2005h:65203**
Schötzau, Dominik (*with* Wihler, Thomas P.) Exponential convergence of mixed hp-DGFEM for Stokes flow in polygons. (English summary) **2005g:65176**
— *see also* **Houston, Paul et al., (2005j:65003)**
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Sid Idris, K. *see* **Guillaume, Ph., 2005e:49081**
Silvestre, Ana Leonor *see* **Alves, Carlos J. S., 2005b:35287**
Simader, Christian G. Sketch of an alternative approach to weak L^q-solutions of Stokes' system in a half-space. **2005d:35216**
Smagulov, Sh. *see* **Kuttykozhaeva, Sh. N. et al., (2005i:65006)**
Sohn, Ayoung Stokes problem of the cornered domain in the plane. (English summary)
Specovius-Neugebauer, Maria *see* **Nazarov, Sergei A., 2005i:35212**
Srinivasacharya, D. (*with* Rajyalakshmi, I.) Creeping flow of micropolar fluid past a porous sphere. (English summary) **2005a:76007**
Summers, J. L. *see* **Walkley, M. A. et al., 2005j:76063**
Suzuki, Takashi[1] *see* **Kobayashi, Takayuki[2] et al., 2005d:35026**
Tahir, Muhammad A Poincaré problem for the Stokes-Bitsadze system. (English summary)
Thatcher, R. W. *see* **Bolton, P., 2005h:65207**
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Varnhorn, Werner The boundary value problems of the Stokes resolvent equations in n dimensions. (English summary) **2005e:35192**
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Vázquez Cendón, C. *see* **Bayada, Guy et al., 2005h:35276**
Venkataraman, V. (*with* Kannan, K.) Numerical solution of Stokes problem for free convection effects in dissipative dusty medium. (English summary) **2005k:76125**
Verfürth, Rüdiger *see* **Bernardi, Christine, 2005g:65131**
Walkley, M. A. (*with* Gaskell, P. H.; Jimack, Peter K.; Kelmanson, M. A.; Summers, J. L.) Finite element simulation of three-dimensional free-surface flow problems with dynamic contact lines. (English summary) **2005j:76063**
Watanabe, Kazuo[1] *see* **Kobayashi, Takayuki[2] et al., 2005d:35026**
Wheeler, Mary Fanett *see* **Girault, Vivette et al., 2005f:65149**
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Winther, Ragnar *see* **Mardal, Kent-Andre, 2005g:65063**
Wu, Xiao Nan (*with* Jin, Jicheng) A finite element method for Stokes equation using discrete singularity expansion. (English summary) **2005i:65193**
— *see also* **Gu, Haiming**
Zhang, Shangyou A new family of stable mixed finite elements for the 3D Stokes equations. (English summary) **2005j:65151**
Zhou, Xiao Lin[1] Wavelets-Galerkin scheme for a Stokes problem. (English summary) **2005d:65213**

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Abdel-Rahman, Gamal M. The fluid flow in the thin films between the immobile conic surface. (English summary) **2005a:76056**
— Flow of a non-Newtonian power law through a conical bearing in an applied magnetic field. (English summary) **2005g:76035**
Acrivos, Andreas (*with* Jin, Bo[1]) Rimming flows within a rotating horizontal cylinder: asymptotic analysis of the thin-film lubrication equations and stability of their solutions. (English summary) **2005h:76024**
Ait Hadi, Khalid (*with* El Bansami, My Hafid) On the second order slip Reynolds equation with molecular dynamics: existence and uniqueness. (English summary) **2005d:76013**
Aliu, E. (*with* Shepherd, J. J.) Overlapping layers in a gas lubrication problem. (English summary) **2005a:76057**
Alkahby, H. Y. *see* **Makky, S. M. et al., (2005m:00008)**
Arregui, Iñigo (*with* Cendán, J. Jesús; Vázquez Cendón, C.) A duality method for the compressible Reynolds equation. Application to simulation of read/write processes in magnetic storage devices. (English summary)
Bayada, Guy (*with* Benhaboucha, N.; Chambat, M.) Modeling of a thin film passing a thin porous medium. (English and French summaries) **2005b:76041**
— (*with* Martin, Sébastien; Vázquez Cendón, C.) Effets d'anisotropie par homogénéisation dans un problème à frontière libre. (English and French summaries) [Anisotropic effects by homogenization in a free boundary problem] **2005m:76057**
Benhaboucha, N. *see* **Bayada, Guy et al., 2005b:76041**
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Chambat, M. *see* **Bayada, Guy et al., 2005b:76041**
Denisikhin, Sergey (*with* Memnonov, Vladimir; Zhuravleva, Svetlana) Parallel implementation of the DSMC method coupled with a continuum solution: simulation of a lubrication problem in magnetic disc storage. (English summary) (*see* **2005c:00015**)
Duvnjak, Antonija Derivation of the Reynolds type equation with memory effects, governing transient flow of lubricant. (English summary) **2005c:76034**
El Bansami, My Hafid *see* **Ait Hadi, Khalid, 2005d:76013**
Hayes, Michael A. (*with* O'Brien, Stephen B. G.) The fluid profile during spin-coating over a small sinusoidal topography. (English summary) **2005f:76033**
He, Ji Huan Variational principle for non-Newtonian lubrication: Rabinowitsch fluid model. (English summary)
Hegarty, Alan F. (*with* O'Brien, Stephen B. G.; Sikwila, Stephen) Numerical solution of a rimming flow problem using a moving mesh method. (English summary) **2005a:76058**
Hiremath, P. S. *see* **Naduvinamani, N. B. et al.**
Ibrahim, A. S. *see* **Makky, S. M. et al., (2005m:00008)**
Jalbout, A. F. *see* **Makky, S. M. et al., (2005m:00008)**
Jin, Bo[1] *see* **Acrivos, Andreas, 2005h:76024**
Liu, Gao-Lian Dual variational principles for the free-boundary problem of cavitated bearing lubrication. (English summary) **2005h:76025**
Lu, Guoshen *see* **Zhang, Yongbin et al., 2005m:76058**
Makky, S. M. (*with* Ibrahim, A. S.; Alkahby, H. Y.; Jalbout, A. F.) Lubrication in finite journal bearings as a free boundary value problem. (English summary) (*see* **2005m:00008**)
Martin, Sébastien *see* **Bayada, Guy et al., 2005m:76057**
Memnonov, Vladimir *see* **Denisikhin, Sergey et al., (2005c:00015)**
Naduvinamani, N. B. (*with* Tasneem Fathima, Syeda; Hiremath, P. S.) On the squeeze effect of lubricants with additives between rough porous rectangular plates. (English summary)
O'Brien, Stephen B. G. *see* **Hegarty, Alan F. et al., 2005a:76058** *and* **Hayes, Michael A., 2005f:76033**
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Tasneem Fathima, Syeda *see* **Naduvinamani, N. B. et al.**
Vázquez Cendón, C. *see* **Bayada, Guy et al., 2005m:76057** *and* **Arregui, Iñigo et al.**
Wieland, Sandra ★ Modellierung und mathematische Analyse kontaminierter dünner Flüssigkeitsfilme. (German) [Modelling and mathematical analysis of contaminated thin liquid films] **2005b:76042**
Zapoměl, Jaroslav Calculation of the pressure function at long hydrodynamical bearings.
Zhang, Yongbin (*with* Tang, Keping; Lu, Guoshen) Model of elastohydrodynamic lubrication with molecularly thin lubricating films. I. Development of analysis. (English summary) **2005m:76058**
Zhuravleva, Svetlana *see* **Denisikhin, Sergey et al., (2005c:00015)**

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Al-Bender, F. *see* **Gilio, M. et al., 2005m:76016** *and* **2005m:76017**
Barrett, John W.[1] (*with* Garcke, Harald; Nürnberg, Robert) Finite element approximation of surfactant spreading on a thin film. (English summary) **2005a:65098**
— (*with* Nürnberg, Robert) Convergence of a finite-element approximation of surfactant spreading on a thin film in the presence of van der Waals forces. (English summary) **2005a:65099**
Bayrakçeken, Hüseyin *see* **Yürüsoy, Muhammet**
Ben Amar, Martine *see* **Sultan, Eric et al., 2005i:76012**
Benilov, E. S. (*with* O'Brien, Stephen B. G.) Inertial instability of a liquid film inside a rotating horizontal cylinder. (English summary) **2005m:76087**
Bernoff, A. J. *see* **Witelski, Thomas P. et al., 2005e:76011**
Bertozzi, Andrea L. *see* **Witelski, Thomas P. et al., 2005e:76011**
Boman, R. (*with* Ponthot, J.-P.) Finite element simulation of lubricated contact in rolling using the arbitrary Lagrangian-Eulerian formulation. (English summary)
Boudaoud, Arezki *see* **Sultan, Eric et al., 2005i:76012**
Boukrouche, Mahdi (*with* Łukaszewicz, Grzegorz) On a lubrication problem with Fourier and Tresca boundary conditions. (English summary) **2005d:35277**
— (*with* El Mir, Rachid) Asymptotic analysis of a non-Newtonian fluid in a thin domain with Tresca law. (English summary) **2005f:35331**
— (*with* Łukaszewicz, Grzegorz) An upper bound on the attractor dimension of a 2D turbulent shear flow in lubrication theory. (English summary) **2005h:37191**
Brenner, Howard *see* **Yariv, Ehud et al., 2005a:76055**

Campo Andión, M. (*with* Fernández García, José Ramón) Numerical analysis of a quasistatic thermoviscoelastic frictional contact problem. (English summary) **2005k:74062**
Chini, Gregory P. *see* **Jensen, Oliver E. et al., 2005h:76010**
Ciuperca, Ionel (*with* El Alaoui Talibi, Mohamed; Jai, Mohammed) On the optimal control of coefficients in elliptic problems. Application to the optimization of the head slider. (English summary) **2005j:49003**
Craster, Richard V. *see* **Edmonstone, B. D. et al., 2005i:76009**
Díaz Díaz, Jesús Ildefonso (*with* Tello, José Ignacio) A note on some inverse problems arising in lubrication theory. (English summary) **2005a:35278**
Duffy, B. R. *see* **Wilson, S. K., 2005m:76074**
Edmonstone, B. D. (*with* Matar, Omar K.; Craster, Richard V.) Flow of surfactant-laden thin films down an inclined plane. (English summary) **2005i:76009**
El Alaoui Talibi, Mohamed *see* **Ciuperca, Ionel et al., 2005j:49003**
Eley, R. R. *see* **Schwartz, L. W. et al., 2005i:76010**
El Mir, Rachid *see* **Boukrouche, Mahdi, 2005f:35331**
Evans, P. L. (*with* Schwartz, L. W.; Roy, R. V.) Steady and unsteady solutions for coating flow on a rotating horizontal cylinder: two-dimensional theoretical and numerical modeling. (English summary)
Fang, Ming[1] (*with* Gilbert, Robert P.) Compression molding. I. A generalized non-isothermal, non-Newtonian Hele-Shaw flow. (English summary) **2005a:76065**
Fernández García, José Ramón *see* **Campo Andión, M., 2005k:74062**
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Gilbert, Robert P. *see* **Fang, Ming[1], 2005a:76065**
Gilio, M. (*with* Al-Bender, F.; Kruth, J.-P.) The dynamics of a moving sheet of liquid. I. Derivation of the 2D equations of motion. (English summary) **2005m:76016**
— (*with* Al-Bender, F.; Kruth, J.-P.) The dynamics of a moving sheet of liquid. II. Experiments. (English summary) **2005m:76017**
Golestanian, Ramin Moving contact lines on heterogeneous substrates. (English summary) **2005c:82068**
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Heil, Matthias *see* **White, Joseph P., 2005k:74031**
Hinch, E. J. (*with* Kelmanson, M. A.; Metcalfe, Paul D.) Shock-like free-surface perturbations in low-surface-tension, viscous, thin-film flow exterior to a rotating cylinder. (English summary) **2005f:76010**
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Kelmanson, M. A. *see* **Hinch, E. J. et al., 2005f:76010**
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King, John Robert *see* **Jensen, Oliver E. et al., 2005h:76010**
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Łukaszewicz, Grzegorz *see* **Boukrouche, Mahdi, 2005d:35277** *and* **2005h:37191**
Matar, Omar K. (*with* Kumar, Satish[2]) Rupture of a surfactant-covered thin liquid film on a flexible wall. (English summary) **2005g:76004**
— *see also* **Edmonstone, B. D. et al., 2005i:76009**
Merouani, Boubakeur *see* **Selmani, Mohamed et al., 2005k:74061**
Metcalfe, Paul D. *see* **Hinch, E. J. et al., 2005f:76010**
Nazarov, Sergei A. *see* **Videman, Juha H. et al., 2005h:76023**
Nürnberg, Robert *see* **Barrett, John W.[1] et al., 2005a:65098** *and* **2005a:65099**
O'Brien, Stephen B. G. *see* **Benilov, E. S., 2005m:76087**
Pan, Runling *see* **Khayat, Roger E., 2005e:76006**
Perazzo, Carlos Alberto (*with* Gratton, Julio) Exact solutions for two-dimensional steady flows of a power-law liquid on an incline. (English summary) **2005h:76006**
Pismen, Len M. (*with* Pomeau, Yves) Mobility and interactions of weakly nonwetting droplets. (English summary) **2005b:76051**
Pomeau, Yves *see* **Pismen, Len M., 2005b:76051**
Ponthot, J.-P. *see* **Boman, R.**
Pozrikidis, C. Axisymmetric motion of a file of red blood cells through capillaries. (English summary) **2005k:76145**
Princen, H. M. *see* **Schwartz, L. W. et al., 2005i:76010**
Roy, R. V. *see* **Schwartz, L. W. et al., 2005i:76010** *and* **Evans, P. L. et al.**
Schwartz, L. W. (*with* Roy, R. V.; Eley, R. R.; Princen, H. M.) Surfactant-driven motion and splitting of droplets on a substrate. (English summary) **2005i:76010**
— *see also* **Evans, P. L. et al.**
Selmani, Lynda *see* **Selmani, Mohamed et al., 2005k:74061**
Selmani, Mohamed (*with* Merouani, Boubakeur; Selmani, Lynda) Analysis of a class of frictional contact problems for the Bingham fluid. (English summary) **2005k:74061**
Sequeira, A. *see* **Videman, Juha H. et al., 2005h:76023**
Stocker, Roman (*with* Hosoi, A. E.) Corner flow in free liquid films. (English summary) **2005i:76011**
Sultan, Eric (*with* Boudaoud, Arezki; Ben Amar, Martine) Diffusion-limited evaporation of thin polar liquid films. (English summary) **2005i:76012**
Tello, José Ignacio On a nonlinear nonlocal ODE arising in magnetic recording. (English summary) **2005i:34023**
— *see also* **Díaz Díaz, Jesús Ildefonso, 2005a:35278**
Thiele, Uwe (*with* Knobloch, Edgar) Thin liquid films on a slightly inclined heated plate. (English summary) **2005g:76053**
Videman, Juha H. (*with* Nazarov, Sergei A.; Sequeira, A.) Asymptotic modelling of a piston with a completely wetted surface. (English and Russian summaries) **2005h:76023**
White, Joseph P. (*with* Heil, Matthias) Three-dimensional instabilities of liquid-lined elastic tubes: a thin-film fluid-structure interaction model. (English summary) **2005k:74031**
Wilson, S. K. (*with* Duffy, B. R.) A rivulet of perfectly wetting fluid draining steadily down a slowly varying substrate. (English summary) **2005m:76074**
Witelski, Thomas P. (*with* Bernoff, A. J.; Bertozzi, Andrea L.) Blowup and dissipation in a critical-case unstable thin film equation. (English summary) **2005e:76011**
Yariv, Ehud (*with* Brenner, Howard; Kim, Sangtae) Curvature-induced dispersion in electro-osmotic serpentine flows. (English summary) **2005a:76055**
Yürüsoy, Muhammet (*with* Bayrakçeken, Hüseyin) Numerical method in the analysis of slider bearing with power-law fluid. (English summary)
Zhang, Rong[6] (*with* Li, Xin Kai) Non-Newtonian effects on lubricant thin film flows. (English summary)

76D09 Viscous-inviscid interaction

Gaĭnova, I. A. (*with* Sagaĭdak, E. I.; Popov, Viktor Nikolaevich) Modeling the condensation of a droplet on a metallic base. (Russian. Russian summary)
Grenier, Emmanuel (*with* Jones, Christopher K. R. T.; Rousset, Frédéric; Sandstede, Björn) Viscous perturbations of marginally stable Euler flow and finite-time Melnikov theory. (English summary) **2005k:76033**
Jones, Christopher K. R. T. *see* **Grenier, Emmanuel et al., 2005k:76033**
Popov, Viktor Nikolaevich *see* **Gaĭnova, I. A. et al.**
Rousset, Frédéric *see* **Grenier, Emmanuel et al., 2005k:76033**
Sagaĭdak, E. I. *see* **Gaĭnova, I. A. et al.**
Sandstede, Björn *see* **Grenier, Emmanuel et al., 2005k:76033**

Items with secondary classifications in 76D09

Agnon, Yehuda (*with* Stokes, Y. M.) An inverse modelling technique for glass forming by gravity sagging. (English summary)
Denier, James P. (*with* Stott, Jillian A. K.) The dominant wave mode within a trailing line vortex. (English summary) **2005g:76056**
Dubinskii, S. V. (*with* Lipatov, I. I.) On disturbance propagation in internal-flow boundary layers. (Russian. Russian summary) **2005g:76106**
Lipatov, I. I. *see* **Dubinskii, S. V., 2005g:76106**
Ramirez, Sonia M. Viscous-inviscid coupled problem with interfacial data. (English summary) **2005i:35222**
Stokes, Y. M. *see* **Agnon, Yehuda**
Stott, Jillian A. K. *see* **Denier, James P., 2005g:76056**

76D10 Boundary-layer theory, separation and reattachment, higher-order effects

Allen, Thomas The evolution of free disturbances on an initially two-dimensional inflectional boundary-layer flow. (English summary) **2005a:76059**
Amin, Norsarahaida *see* **Nazar, Roslinda et al., 2005b:76044**
Ansari, Ali R. *see* **Hossain, Bayezid et al., 2005a:76060**
Aydın, Orhan (*with* Kaya, Ahmet) Laminar boundary layer flow over a horizontal permeable flat plate. (English summary)
Bazid, M. A. A. *see* **Elbashbeshy, E. M. A., 2005e:76036**
Boersma, B. J. *see* **Breugem, W. P. et al., 2005k:76034**
Boĭko, Andreĭ Vladislavovich (*with* Chun, H. H.) Development of low-frequency streaks in Blasius boundary layer. (English summary) **2005b:76043**
Brandt, Luca *see* **Cossu, Carlo, 2005e:76035**
Breugem, W. P. (*with* Boersma, B. J.; Uittenbogaard, R. E.) The laminar boundary layer over a permeable wall. (English summary) **2005k:76034**
Chashechkin, Yu. D. *see* **Davydova, M. A., 2005c:76035**
Chun, H. H. *see* **Boĭko, Andreĭ Vladislavovich, 2005b:76043**
Cossu, Carlo (*with* Brandt, Luca) On Tollmien-Schlichting-like waves in streaky boundary layers. (English summary) **2005e:76035**
Cousteix, J. *see* **Dechaume, A. et al., 2005m:76059**
Cox, Stephen M. *see* **King, John Robert, 2005m:76060**
Davydova, M. A. (*with* Chashechkin, Yu. D.) The structure of three-dimensional periodic boundary layers in a continuously stratified fluid. (Russian. Russian summary) **2005c:76035**
Dechaume, A. (*with* Cousteix, J.; Mauss, J.) An interactive boundary layer model compared to the triple deck theory. (English summary) **2005m:76059**
Elbashbeshy, E. M. A. (*with* Bazid, M. A. A.) The effect of temperature-dependent viscosity on heat transfer over a continuous moving surface with variable internal heat generation. (English summary) **2005e:76036**
Elizarova, T. G. (*with* Kalachinskaya, I. S.; Sheretov, Yu. V.; Shil′nikov, E. V.) Simulation of separating flows over a backward-facing step. (English summary)
Fang, Tiegang (*with* Lee, Chia-fon F.) A moving-wall boundary layer flow of a slightly rarefied gas free stream over a moving flat plate. (English summary)
Filip, Diana Andrada *see* **Nazar, Roslinda et al., 2005b:76044**
Ghil, Michael (*with* Liu, Jian-Guo[1]; Wang, Cheng[4]; Wang, Shou Hong) Boundary-layer separation and adverse pressure gradient for 2-D viscous incompressible flow. (English summary) **2005g:76036**
Hong, Lan (*with* Hunter, John K.) Singularity formation and instability in the unsteady inviscid and viscous Prandtl equations. (English summary) **2005k:76035**
Hossain, Bayezid (*with* Ansari, Ali R.; Shishkin, Grigorii I.) On numerical methods for a boundary layer on a body of revolution. (English summary) **2005a:76060**
Hunter, John K. *see* **Hong, Lan, 2005k:76035**
Kalachinskaya, I. S. *see* **Elizarova, T. G. et al.**
Kaya, Ahmet *see* **Aydın, Orhan**
King, John Robert (*with* Cox, Stephen M.) Self-similar "stagnation point" boundary layer flows with suction or injection. (English summary) **2005m:76060**
Lee, Chia-fon F. *see* **Fang, Tiegang**
Liu, Jian-Guo[1] *see* **Ghil, Michael et al., 2005g:76036**
Manuilovich, S. V. On the perturbation of Hamel flow due to unevenness of the channel walls. (Russian. Russian summary) **2005f:76034**
Mauss, J. *see* **Dechaume, A. et al., 2005m:76059**

Nazar, Roslinda (*with* Amin, Norsarahaida; Filip, Diana Andrada; Pop, Ioan[2]) Unsteady boundary layer flow in the region of the stagnation point on a stretching sheet. (English summary) **2005b:76044**

Panayotounakos, Dimitrios E. (*with* Sotiropoulos, N. B.; Sotiropoulou, A. B.; Panayotounakou, N. D.) Exact analytic solutions of nonlinear boundary value problems in fluid mechanics (Blasius equations). (English summary) **2005j:76031**

Panayotounakou, N. D. *see* **Panayotounakos, Dimitrios E. et al., 2005j:76031**

Pop, Ioan[2] *see* **Nazar, Roslinda et al., 2005b:76044**

Riley, N. On the control of laminar flow separation. (English summary) **2005a:76061**

Samokhin, V. N. Formation of a boundary layer near a rear point. (Russian. Russian summary) **2005g:76037**

Sheretov, Yu. V. *see* **Elizarova, T. G. et al.**

Shil'nikov, E. V. *see* **Elizarova, T. G. et al.**

Shishkin, Grigorii I. *see* **Hossain, Bayezid et al., 2005a:76060**

Sotiropoulos, N. B. *see* **Panayotounakos, Dimitrios E. et al., 2005j:76031**

Sotiropoulou, A. B. *see* **Panayotounakos, Dimitrios E. et al., 2005j:76031**

Uittenbogaard, R. E. *see* **Breugem, W. P. et al., 2005k:76034**

Wang, Cheng[4] *see* **Ghil, Michael et al., 2005g:76036**

Wang, Shou Hong *see* **Ghil, Michael et al., 2005g:76036**

Items with secondary classifications in 76D10

Abd El Kareem, M. F. *see* **El Hakeem Abd El Naby, Abd et al., 2005f:76028**

Alboussière, T. *see* **Moresco, P., 2005e:76046**

Allen, Thomas The evolution of free-disturbances in a two-dimensional nonlinear critical layer. (English summary) **2005f:76040**

Asaithambi, Asai A second-order finite-difference method for the Falkner-Skan equation. (English summary)

— Numerical solution of the Falkner-Skan equation using piecewise linear functions. (English summary) **2005g:65164**

— Solution of the Falkner-Skan equation by recursive evaluation of Taylor coefficients. (English summary) **2005k:34108**

Balassas, Konstantinos G. *see* **Kalpakidis, V. K., 2005d:76033**

Brighi, Bernard (*with* Sari, Tewfik) Blowing-up coordinates for a similarity boundary layer equation. (English summary) **2005k:34109**

Carbou, Gilles (*with* Fabrie, Pierre) Boundary layer for a penalization method for viscous incompressible flow. (English summary) **2005a:76041**

Cebeci, Tuncer ★ Stability and transition: theory and application. **2005g:76062**

Chandran, Pallath (*with* Sacheti, Nirmal C.) Unsteady boundary layer flow of a radiating fluid under the influence of an applied magnetic field. (English summary) **2005h:76076**

Chernyshenko, Sergei I. *see* **Zannetti, Luca, 2005j:76032**

Chomaz, Jean-Marc Global instabilities in spatially developing flows: non-normality and nonlinearity. (English summary) **2005i:76051**

Chupin, Laurent Boundary layers for stress diffusive perturbation in viscoelastic fluids. (English summary) **2005m:76011**

Clercx, H. J. H. *see* **Molenaar, D. et al., 2005g:76058**

Cole, Julian D. (*with* Malmuth, Norman D.) Wave drag due to lift for transonic airplanes. (English summary) **2005h:76051**

Cousteix, J. (*with* Mauss, J.) Approximations of the Navier-Stokes equations for high Reynolds number flows past a solid wall. (English summary) **2005a:76042**

Dabrowski, Paul P. *see* **Denier, James P., 2005f:76005**

Denier, James P. (*with* Dabrowski, Paul P.) On the boundary-layer equations for power-law fluids. (English summary) **2005f:76005**

Desjardins, Benoît (*with* Dormy, Emmanuel; Grenier, Emmanuel) Boundary layer instability at the top of the Earth's outer core. (English summary) **2005b:86039**

Dormy, Emmanuel *see* **Desjardins, Benoît et al., 2005b:86039**

Dubinskii, S. V. (*with* Lipatov, I. I.) On disturbance propagation in internal-flow boundary layers. (Russian. Russian summary) **2005g:76106**

Duck, Peter W. (*with* Owen, Jonathan) Non-modal stability and breakdown in corner and three-dimensional boundary layers. (English summary) **2005a:76070**

Elbarbary, Elsayed M. E. M. Chebyshev finite difference method for the solution of boundary-layer equations. (English summary) **2005f:76072**

El Hakeem Abd El Naby, Abd (*with* El Misery, A. E. M.; Abd El Kareem, M. F.) Separation in the flow through peristaltic motion of a Carreau fluid in uniform tube. (English summary) **2005f:76028**

El Misery, A. E. M. *see* **El Hakeem Abd El Naby, Abd et al., 2005f:76028**

Evans, Jonathan D. Re-entrant corner flows of the upper convected Maxwell fluid. (English summary) **2005j:76003**

Ezzat, Magdy A. (*with* Zakaria, M.; Moursy, M.) Magnetohydrodynamic boundary layer flow past a stretching plate and heat transfer. **2005b:76138**

Fabrie, Pierre *see* **Carbou, Gilles, 2005a:76041**

Gahan, B. (*with* Miller, J. J. H.; Shishkin, Grigorii I.) Accurate numerical method for Blasius' problem for flow past a flat plate with mass transfer. (English summary) (*see* **2005c:65004**)

Grenier, Emmanuel Boundary layers. **2005j:76036**

— *see also* **Desjardins, Benoît et al., 2005b:86039**

Harris, S. D. (*with* Ingham, Derek B.) Techniques for solving the boundary-layer equations. (*see* **2005c:76001**)

Hayat, Tasawar Oscillatory solution in rotating flow of a Johnson-Segalman fluid. (English summary) **2005k:76009**

van Heijst, G. J. F. *see* **Molenaar, D. et al., 2005g:76058**

Ingham, Derek B. *see* **Harris, S. D., (2005c:76001)**

Ishimura, Naoyuki (*with* Ushijima, Takeo K.) An elementary approach to the analysis of exact solutions for the Navier-Stokes stagnation flows with slips. (English summary) **2005c:76033**

Kalpakidis, V. K. (*with* Balassas, Konstantinos G.) Symmetry groups and similarity solutions for a free convective boundary-layer problem. (English summary) **2005d:76033**

Khusnutdinova, N. V. An estimate for velocity modulus of hydrodynamic flows. (Russian) **2005a:35136**

Koren, Barry *see* **Miller, J. J. H. et al., 2005a:76112**

Krishnan, J. Murali *see* **Ravindran, Parag et al.**

Kuo, Bor-Lih Application of the differential transformation method to the solutions of the free convection problem. (English summary) **2005k:76124**

Lagrée, Pierre-Yves (*with* Lorthois, Sylvie) The RNS/Prandtl equations and their link with other asymptotic descriptions: application to the wall shear stress scaling in a constricted pipe. (English summary) **2005i:76034**

Lipatov, I. I. *see* **Dubinskii, S. V., 2005g:76106**

Lopes Filho, M. C. (*with* Nussenzveig Lopes, H. J.; Planas, Gabriela) On the inviscid limit for two-dimensional incompressible flow with Navier friction condition. (English summary) **2005k:76026**

Lorthois, Sylvie *see* **Lagrée, Pierre-Yves, 2005i:76034**

Lu, Chunqing (*with* Zheng, Lian Cun) Similarity solutions of a boundary layer problem in power law fluids through a moving flat plate. (English summary) **2005e:34082**

Mallier, Roland *see* **Smith, Chris J., 2005a:86012**

Malmuth, Norman D. *see* **Cole, Julian D., 2005h:76051**

Manuilovich, S. V. Spatial evolution of nonstationary perturbations in Hamel flow. (Russian. Russian summary) **2005c:76046**

— Propagation of a Tollmien-Schlichting wave over the junction between rigid and compliant surfaces. (Russian. Russian summary) **2005i:76047**

Mauss, J. *see* **Cousteix, J., 2005a:76042**

Miller, J. J. H. (*with* Shishkin, Grigorii I.; Koren, Barry; Shishkina, L. P.) Grid approximation of a singularly perturbed boundary value problem modelling heat transfer in the case of flow over a flat plate with suction of the boundary layer. (English summary) **2005a:76112**

— *see also* **Gahan, B. et al., (2005c:65004)**

Molenaar, D. (*with* Clercx, H. J. H.; van Heijst, G. J. F.) Angular momentum of forced 2D turbulence in a square no-slip domain. (English summary) **2005g:76058**

Moresco, P. (*with* Alboussière, T.) Stability of Bödewadt-Hartmann layers. (English summary) **2005e:76046**

Motsa, S. S. *see* **Shateyi, S. et al., 2005i:76049**

Moursy, M. *see* **Ezzat, Magdy A. et al., 2005b:76138**

Naumenko, Yu. V. The regime hysteresis of viscous flow with free surface in rotating horizontal cylinder. (English summary) **2005m:76048**

Nussenzveig Lopes, H. J. *see* **Lopes Filho, M. C. et al., 2005k:76026**

Otto, S. R. *see* **Watson, C. E., 2005k:76044**

Owen, Jonathan *see* **Duck, Peter W., 2005a:76070**

Planas, Gabriela *see* **Lopes Filho, M. C. et al., 2005k:76026**

Pop, Ioan[2] Some boundary-layer problems in convective flow in porous media. (*see* **2005c:76001**)

Rajagopal, Kumbakonam *see* **Ravindran, Parag et al.**

Ravindran, Parag (*with* Krishnan, J. Murali; Rajagopal, Kumbakonam) A note on the flow of a Burgers' fluid in an orthogonal rheometer. (English summary)

Rousset, Frédéric Stability of large Ekman boundary layers in rotating fluids. (English summary) **2005c:76050**

Saccomandi, Giuseppe A remarkable class of non-classical symmetries of the steady two-dimensional boundary-layer equations. (English summary) **2005b:76107**

Sacheti, Nirmal C. *see* **Chandran, Pallath, 2005h:76076**

Sari, Tewfik *see* **Brighi, Bernard, 2005k:34109**

Shateyi, S. (*with* Sibanda, P.; Motsa, S. S.) An asymptotic analysis of convection in boundary layer flows in the presence of a chemical reaction. (English summary) **2005i:76049**

Shi, Wei Ping[2] *see* **Zhang, Zhong Xin et al., 2005f:76008**

Shishkin, Grigorii I. *see* **Miller, J. J. H. et al., 2005a:76112** *and* **Gahan, B. et al., (2005c:65004)**

Shishkina, L. P. *see* **Miller, J. J. H. et al., 2005a:76112**

Sibanda, P. *see* **Shateyi, S. et al., 2005i:76049**

Smith, Chris J. (*with* Mallier, Roland) Removing the separation singularity in a barotropic ocean with bottom friction. (English summary) **2005a:86012**

Su, Xiao Hong *see* **Zheng, Lian Cun et al.**

Uecker, Hannes Self-similar decay of localized perturbations in the integral boundary layer equation. (English summary) **2005g:35164**

Ushijima, Takeo K. *see* **Ishimura, Naoyuki, 2005c:76033**

Wang, Jun-yu *see* **Zhang, Zhong Xin et al., 2005f:76008**

Wang, Lei[3] A new algorithm for solving classical Blasius equation. (English summary) **2005h:65113**

Watson, C. E. (*with* Otto, S. R.) The stability of a curved, heated boundary layer: linear and nonlinear problems. (English summary) **2005k:76044**

Xin, Zhou Ping (*with* Zhang, Liqun) On the global existence of solutions to the Prandtl's system. (English summary) **2005f:35219**

Yang, Guang Chong A note on $f''' + ff'' + \lambda(1 - f'^2) = 0$ with $\lambda \in (-\frac{1}{2}, 0)$ arising in boundary layer theory. (English summary) **2005f:34072**

Yürüsoy, Muhammet Group classification of three-dimensional boundary layer equations of a class of non-Newtonian fluids. (English summary) **2005g:76099**

— Similarity solutions of boundary layer equations for a special non-Newtonian fluid in a special coordinate system. (English summary)

Zakaria, M. Magnetohydrodynamic viscoelastic boundary layer flow past a stretching plate and heat transfer. (English summary) **2005b:76143**

— *see also* **Ezzat, Magdy A. et al., 2005b:76138**

Zannetti, Luca (*with* Chernyshenko, Sergei I.) Vortex pair and Chaplygin cusps. (English summary) **2005j:76032**

Zavalishchin, D. S. Optimization setting of Slezkin's problem. (English summary) **2005b:76052**

Zhang, Jian Wen (*with* Zhao, Jun Ning) Global existence of weak solutions to Prandtl's system. (Chinese. English and Chinese summaries)

Zhang, Liqun *see* **Xin, Zhou Ping, 2005f:35219**

Zhang, Xinxin *see* **Zheng, Lian Cun et al.**

Zhang, Zhong Xin (*with* Wang, Jun-yu; Shi, Wei Ping[2]) A boundary layer problem arising in gravity-driven laminar film flow of power-law fluids along vertical walls. (English summary) **2005f:76008**

Zhao, Jun Ning *see* **Zhang, Jian Wen**

Zheng, Lian Cun (*with* Su, Xiao Hong; Zhang, Xinxin) Similarity solutions for boundary

layer flow on a moving surface in an otherwise quiescent fluid medium. (English summary)
— *see also* **Lu, Chunqing, 2005e:34082**

76D17 Viscous vortex flows

Afanas'ev, Ya. D. (*with* Korabel, V. N.) Starting vortex dipoles in a viscous fluid: asymptotic theory, numerical simulations, and laboratory experiments. (English summary) **2005e:76037**
Akimenko, V. V. (*with* Cheremnykh, O. K.) Modeling rotational flows on the background of a two-dimensional convective heat and mass transfer process. (Russian. English, Russian and Ukrainian summaries) **2005i:76039**
Albensoeder, Stefan *see* **Kuhlmann, Hendrik C., 2005m:76062**
Brocchini, M. (*with* Colombini, M.) A note on the decay of vorticity in shallow flow calculations. (English summary) **2005b:76045**
Champneys, Alan R. *see* **Rucklidge, Alastair M., 2005a:76063**
Cheremnykh, O. K. *see* **Akimenko, V. V., 2005i:76039**
Chernyshenko, Sergei I. *see* **Zannetti, Luca, 2005j:76032**
Chevalier, G. *see* **Moet, H. et al., 2005m:76063**
Chiang, T. P. *see* **Sau, Amalendu et al., 2005g:76038**
Colombini, M. *see* **Brocchini, M., 2005b:76045**
Coquart, Laure (*with* Sipp, Denis; Jacquin, Laurent) Mixing induced by Rayleigh-Taylor instability in a vortex. (English summary) **2005i:76040**
Gaifullin, A. M. (*with* Zubtsov, A. V.) Diffusion of two vortices. (Russian. Russian summary) **2005b:76046**
Gorban', Ī. M. *see* **Gorban', V. A., 2005i:76041**
Gorban', V. A. (*with* Gorban', Ī. M.) Theoretical analysis of vortex generation processes and vortex dynamics in channels. (Ukrainian. English, Russian and Ukrainian summaries) **2005i:76041**
Grassi, Vittorio (*with* Leo, R. A.; Soliani, G.; Tempesta, Piergiulio) Vortices and invariant surfaces generated by symmetries for the 3D Navier-Stokes equations. (English summary) **2005c:76036a**
— (*with* Leo, R. A.; Soliani, G.; Tempesta, Piergiulio) Erratum to: "Vortices and invariant surfaces generated by symmetries for the 3D Navier-Stokes equations" [Phys. A **286** (2000), no. 1-2, 79–108; MR1987481 (2005c:76036a)]. **2005c:76036b**
Herrada, Miguel Angel (*with* Shtern, Vladimir) Vortex breakdown control by adding near-axis swirl and temperature gradients. (English summary) **2005a:76062**
Hourigan, Kerry *see* **Leweke, Thomas et al.**
Hwang, Robert R. *see* **Sau, Amalendu et al., 2005g:76038**
Ishii, Hiroyuki *see* **Takahashi, Naoya[2] et al., 2005k:76036**
Jacquin, Laurent *see* **Coquart, Laure et al., 2005i:76040**
Kawahara, Genta Energy dissipation in spiral vortex layers wrapped around a straight vortex tube. (English summary) **2005m:76061**
Korabel, V. N. *see* **Afanas'ev, Ya. D., 2005e:76037**
Kuhlmann, Hendrik C. (*with* Albensoeder, Stefan) Strained vortices in driven cavities. (English summary) **2005m:76062**
Laporte, F. *see* **Moet, H. et al., 2005m:76063**
Leo, R. A. *see* **Grassi, Vittorio et al., 2005c:76036a** *and* **2005c:76036b**
Leweke, Thomas (*with* Thompson, Mark C.; Hourigan, Kerry) Vortex dynamics associated with the collision of a sphere with a wall. (English summary)
Liñán, Amable *see* **Vera, Marcos, 2005b:76047**
Mi, Jianchun *see* **Shtern, Vladimir, 2005f:76036**
Miyazaki, Takeshi *see* **Takahashi, Naoya[2] et al., 2005k:76036**
Moet, H. (*with* Laporte, F.; Chevalier, G.; Poinsot, T.) Wave propagation in vortices and vortex bursting. (English summary) **2005m:76063**
Ni, A. Transcritical transitions in swirling quasi-columnar flows. (English summary) (*see* **2005b:76003**)
Poinsot, T. *see* **Moet, H. et al., 2005m:76063**
Ranger, K. B. Fluid velocity fields derived from vorticity singularities. (English summary) **2005f:76035**
Rucklidge, Alastair M. (*with* Champneys, Alan R.) Boundary effects and the onset of Taylor vortices. (English summary) **2005a:76063**
Sau, Amalendu (*with* Sheu, Tony W. H.; Tsai, S. F.; Hwang, Robert R.; Chiang, T. P.) Structural development of vortical flows around a square jet in cross-flow. (English summary) **2005g:76038**
Shcheprov, A. V. *see* **Shmyglevskiĭ, Yu. D.**
Sheu, Tony W. H. *see* **Sau, Amalendu et al., 2005g:76038**
Shmyglevskiĭ, Yu. D. (*with* Shcheprov, A. V.) Exact representation of some axisymmetric vortex formations in a viscous incompressible fluid. (Russian)
Shtern, Vladimir (*with* Mi, Jianchun) Hysteresis and precession of a swirling jet normal to a wall. (English summary) **2005f:76036**
— *see also* **Herrada, Miguel Angel, 2005a:76062**
Sipp, Denis *see* **Coquart, Laure et al., 2005i:76040**
Soliani, G. *see* **Grassi, Vittorio et al., 2005c:76036a** *and* **2005c:76036b**
Takahashi, Naoya[2] (*with* Ishii, Hiroyuki; Miyazaki, Takeshi) The influence of turbulence on a columnar vortex. (English summary) **2005k:76036**
Tempesta, Piergiulio *see* **Grassi, Vittorio et al., 2005c:76036a** *and* **2005c:76036b**
Thompson, Mark C. *see* **Leweke, Thomas et al.**
Tsai, S. F. *see* **Sau, Amalendu et al., 2005g:76038**
Vera, Marcos (*with* Liñán, Amable) On the interaction of vortices with mixing layers. (English summary) **2005b:76047**
Zannetti, Luca (*with* Chernyshenko, Sergei I.) Vortex pair and Chaplygin cusps. (English summary) **2005j:76032**
Zubtsov, A. V. *see* **Gaifullin, A. M., 2005b:76046**

Items with secondary classifications in 76D17

Abedini, Yoosofali *see* **Eshraghi, Homayoon, 2005b:76025**
Afanas'ev, Ya. D. Wakes behind towed and self-propelled bodies: asymptotic theory. (English summary) **2005b:76048**
— Flight in a viscous fluid: asymptotic theory of the vortex wake. (English summary)
Allen, C. B. *see* **Barba, L. A. et al., 2005i:76081**
Babiano, A. *see* **Elhmaidi, D. et al.**
Baines, P. G. *see* **Smirnov, S. A. et al.**
Barba, L. A. (*with* Leonard, Anthony; Allen, C. B.) Vortex method with meshless spatial adaption for accurate simulation of viscous, unsteady vortical flows. (English summary) **2005i:76081**
Barrero, Antonio *see* **Herrada, Miguel Angel et al., 2005c:76051** *and* **2005f:76046**
Birbaud, Anne-Laure *see* **Lacaze, Laurent et al., 2005g:76057**
Bonneton, Natalie *see* **Sous, Damien et al.**
Boyer, Don L. *see* **Smirnov, S. A. et al.**
van Buren, M. G. *see* **Satijn, M. P. et al., 2005f:76054**
Chu, Z. Kwang-Hua Ball-like structures of the Beltrami flow field. (English summary) **2005i:76024**
Clercx, H. J. H. *see* **Satijn, M. P. et al., 2005f:76054**
Delbende, Ivan (*with* Rossi, Maurice) Nonlinear evolution of a swirling jet instability. (English summary) **2005k:76046**
Denier, James P. (*with* Stott, Jillian A. K.) The dominant wave mode within a trailing line vortex. (English summary) **2005g:76056**
Elhmaidi, D. (*with* Provenzale, Antonello; Lili, T.; Babiano, A.) Stability of two-dimensional vorticity filaments. (English summary)
Eshraghi, Homayoon (*with* Abedini, Yoosofali) The generalized Leray transformation for the finite time singular vortices in fluids. (English summary) **2005b:76025**
Ferziger, Joel Henry *see* **Tseng, Yu-Heng**
Fetecău, Constantin (*with* Fetecău, Corina) Decay of a potential vortex in an Oldroyd-B fluid. (English summary) **2005i:76004**
Fetecău, Corina *see* **Fetecău, Constantin, 2005i:76004**
Gallay, Thierry (*with* Wayne, C. Eugene) Global stability of vortex solutions of the two-dimensional Navier-Stokes equation. (English summary) **2005m:35224**
van Heijst, G. J. F. *see* **Satijn, M. P. et al., 2005f:76054**
Herrada, Miguel Angel (*with* Pérez-Saborid, M.; Barrero, Antonio) Nonparallel local spatial stability analysis of pipe entrance swirling flows. (English summary) **2005c:76051**
— (*with* Barrero, Antonio) Nonparallel linear stability analysis of unconfined vortices. (English summary) **2005f:76046**
Hmidi, Taoufik Régularité höldérienne des poches de tourbillon visqueuses. (English and French summaries) [Hölderian regularity of viscous vortex patches] **2005h:35282**
Kerr, Robert M. Vortex collapse and turbulence. (English summary) **2005m:76106**
Lacaze, Laurent (*with* Birbaud, Anne-Laure; Le Dizès, Stéphane) Elliptic instability in a Rankine vortex with axial flow. (English summary) **2005g:76057**
Le Dizès, Stéphane *see* **Lacaze, Laurent et al., 2005g:76057**
Leonard, Anthony *see* **Barba, L. A. et al., 2005i:76081**
Levinskiĭ, V. B. *see* **Shukhman, I. G., 2005h:76044**
Li, Gongbao (*with* Yan, Shusen; Yang, Jianfu) An elliptic problem related to planar vortex pairs. (English summary) **2005m:35098**
Lili, T. *see* **Elhmaidi, D. et al.**
Miklavčič, Milan Layered Von Kármán's swirling flow. (English summary) **2005f:76031**
Ohtsuka, Kazumichi (*with* Takaki, Ryuji; Watanabe, Shinsuke) Coplanar two vortex filaments without change of form. (English summary) **2005e:76024**
Pérez-Saborid, M. *see* **Herrada, Miguel Angel et al., 2005c:76051**
Provenzale, Antonello *see* **Elhmaidi, D. et al.**
Rossi, Maurice *see* **Delbende, Ivan, 2005k:76046**
Satijn, M. P. (*with* van Buren, M. G.; Clercx, H. J. H.; van Heijst, G. J. F.) Vortex models based on similarity solutions of the two-dimensional diffusion equation. (English summary) **2005f:76054**
Shtern, Vladimir Instability versus collapse in a flow driven by the radial electric current (English summary) **2005a:76086**
— Bifurcation of conical magnetic field. (English summary) **2005e:76089**
Shukhman, I. G. (*with* Levinskiĭ, V. B.) Temporal evolution of a localized weak vortex in viscous circular shear flows. (English summary) **2005h:76044**
Smirnov, S. A. (*with* Baines, P. G.; Boyer, Don L.; Voropaev, S. I.; Srdic-Mitrovic, A. N.) Long-time evolution of linearly stratified spin-up flows in axisymmetric geometries (English summary)
Sommeria, Joël *see* **Sous, Damien et al.**
Sous, Damien (*with* Bonneton, Natalie; Sommeria, Joël) Transition from deep to shallow water layer: formation of vortex dipoles. (English summary)
Srdic-Mitrovic, A. N. *see* **Smirnov, S. A. et al.**
Stott, Jillian A. K. *see* **Denier, James P., 2005g:76056**
Takaki, Ryuji *see* **Ohtsuka, Kazumichi et al., 2005e:76024**
Tseng, Yu-Heng (*with* Ferziger, Joel Henry) Large-eddy simulation of turbulent wavy boundary flow—illustration of vortex dynamics. (English summary)
Türkyılmazoğlu, M. Lower branch modes of the compressible boundary layer flow due to a rotating-disk. (English summary) **2005h:76033**
Voropaev, S. I. *see* **Smirnov, S. A. et al.**
Watanabe, Shinsuke *see* **Ohtsuka, Kazumichi et al., 2005e:76024**
Wayne, C. Eugene *see* **Gallay, Thierry, 2005m:35224**
Yan, Shusen *see* **Li, Gongbao et al., 2005m:35098**
Yang, Jianfu *see* **Li, Gongbao et al., 2005m:35098**

76D25 Wakes and jets

Afanas'ev, Ya. D. Wakes behind towed and self-propelled bodies: asymptotic theory (English summary) **2005b:76048**
Afzal, Noor Analysis of power law and log law velocity profiles in the overlap region of a turbulent wall jet. (English summary)
Bamberger, Andreas (*with* Bänsch, Eberhard; Siebert, Kunibert G.) Experimental and numerical investigation of edge tones. (English summary) **2005c:76037**
Bänsch, Eberhard *see* **Bamberger, Andreas et al., 2005c:76037**
Carton, Xavier J. *see* **Pavec, Marc, 2005g:76040**
Fontelos, Marco A. On the evolution of thin viscous jets: filament formation. (English summary) **2005g:76039**
de Langre, E. *see* **Mathelin, L., 2005m:76064**

Lu, Dong Qiang Interaction of viscous wakes with a free surface. (Chinese. English and Chinese summaries)
Mason, D. P. *see* **Ruscic, I., 2005f:76038**
Mathelin, L. (*with* de Langre, E.) Vortex-induced vibrations and waves under shear flow with a wake oscillator model. (English summary) **2005m:76064**
Palti, A. M. On a self-similar solution of flow equations for viscous liquid. (English summary) **2005k:76037**
Pavec, Marc (*with* Carton, Xavier J.) Parametric instability of a two-layer wall jet. (English summary) **2005g:76040**
Renardy, Michael A comment on self-similar breakup for inertialess Newtonian liquid jets. (English summary) **2005k:76038**
Ribe, Neil M. Coiling of viscous jets. (English summary) **2005f:76037**
Ruscic, I. (*with* Mason, D. P.) Group invariant solution and conservation law for a steady laminar axisymmetric free jet. (English summary) **2005f:76038**
Schreiber, Willard C. A mathematical model that uses an adaptive mesh for predicting scalar transport in a transient incompressible jet. (English summary) (*see* **2005b:65003**)
Siebert, Kunibert G. *see* **Bamberger, Andreas et al., 2005c:76037**

Items with secondary classifications in 76D25

Afanas′ev, Ya. D. (*with* Korabel, V. N.) Starting vortex dipoles in a viscous fluid: asymptotic theory, numerical simulations, and laboratory experiments. (English summary) **2005e:76037**
Akhmetov, R. G. Asymptotic expansion of the solution of the convective diffusion problem in the wake of a droplet. (Russian. Russian summary) **2005g:76109**
Barrero, Antonio *see* **Herrada, Miguel Angel, 2005f:76046**
Bazdidi-Tehrani, F. (*with* Shahmir, A.; Haghparast-Kashani, A.) Numerical analysis of a single row of coolant jets injected into a heated crossflow. (English summary)
Belan, Marco *see* **Tordella, Daniela, 2005j:76039**
Chiang, T. P. *see* **Sau, Amalendu et al., 2005g:76038**
Chomaz, Jean-Marc Global instabilities in spatially developing flows: non-normality and nonlinearity. (English summary) **2005i:76051**
Córdoba, Antonio (*with* Córdoba, Diego; Fefferman, Charles Louis; Fontelos, Marco A.) A geometrical constraint for capillary jet breakup. (English summary) **2005f:76041**
Córdoba, Diego *see* **Córdoba, Antonio et al., 2005f:76041**
Delbende, Ivan (*with* Rossi, Maurice) Nonlinear evolution of a swirling jet instability. (English summary) **2005k:76046**
Fefferman, Charles Louis *see* **Córdoba, Antonio et al., 2005f:76041**
Fontelos, Marco A. *see* **Córdoba, Antonio et al., 2005f:76041**
Gañán-Calvo, A. M. *see* **López-Herrera, J. M. et al., 2005k:76055**
Haghparast-Kashani, A. *see* **Bazdidi-Tehrani, F. et al.**
Herrada, Miguel Angel (*with* Barrero, Antonio) Nonparallel linear stability analysis of unconfined vortices. (English summary) **2005f:76046**
Hwang, Robert R. *see* **Sau, Amalendu et al., 2005g:76038**
Korabel, V. N. *see* **Afanas′ev, Ya. D., 2005e:76037**
López-Herrera, J. M. (*with* Riesco-Chueca, P.; Gañán-Calvo, A. M.) Linear stability analysis of axisymmetric perturbations in imperfectly conducting liquid jets. (English summary) **2005k:76055**
Mi, Jianchun *see* **Shtern, Vladimir, 2005f:76036**
Protas, Bartosz Linear feedback stabilization of laminar vortex shedding based on a point vortex model. (English summary) **2005g:76048**
Riesco-Chueca, P. *see* **López-Herrera, J. M. et al., 2005k:76055**
Rossi, Maurice *see* **Delbende, Ivan, 2005k:76046**
Sau, Amalendu (*with* Sheu, Tony W. H.; Tsai, S. F.; Hwang, Robert R.; Chiang, T. P.) Structural development of vortical flows around a square jet in cross-flow. (English summary) **2005g:76038**
Shahmir, A. *see* **Bazdidi-Tehrani, F. et al.**
Sheu, Tony W. H. *see* **Sau, Amalendu et al., 2005g:76038**
Shtern, Vladimir (*with* Mi, Jianchun) Hysteresis and precession of a swirling jet normal to a wall. (English summary) **2005f:76036**
Tordella, Daniela (*with* Belan, Marco) On the domain of validity of the near-parallel combined stability analysis for the 2D intermediate and far bluff body wake. (English summary) **2005j:76039**
Tsai, S. F. *see* **Sau, Amalendu et al., 2005g:76038**
Valdinoci, Enrico Plane-like minimizers in periodic media: jet flows and Ginzburg-Landau-type functionals. (English summary) **2005m:58037**

76D27 Other free-boundary flows; Hele-Shaw flows

Alexandrou, A. N. (*with* Entov, V. M.; Kolganov, S. S.; Kolganova, N. V.) On bubble rising in a Hele-Shaw cell filled with a non-Newtonian fluid. (English summary) **2005g:76041**
Alvarez-Lacalle, E. (*with* Ortín, J.; Casademunt, Jaume) Low viscosity contrast fingering in a rotating Hele-Shaw cell. (English summary) **2005a:76064**
Ambrose, David M. Well-posedness of two-phase Hele-Shaw flow without surface tension. (English summary) **2005m:76065**
Andreucci, Daniele (*with* Caruso, Giovanni; DiBenedetto, Emmanuele) Ill-posed Hele-Shaw flows. **2005c:76038**
Bernardini, Angela (*with* Bragard, J.; Mancini, H.) Synchronization between two Hele-Shaw cells. (English summary) **2005m:76066**
Boek, Edo S. *see* **Grosfils, Patrick et al., 2005c:76039**
Boon, Jean Pierre *see* **Grosfils, Patrick et al., 2005c:76039**
Bragard, J. *see* **Bernardini, Angela et al., 2005m:76066**
Caruso, Giovanni *see* **Andreucci, Daniele et al., 2005c:76038**
Casademunt, Jaume Viscous fingering as a paradigm of interfacial pattern formation: recent results and new challenges. (English summary) **2005g:76042**
— *see also* **Alvarez-Lacalle, E. et al., 2005a:76064**
Chin, Jonathan *see* **Grosfils, Patrick et al., 2005c:76039**
Cīrulis, T. (*with* Lietuvietis, O.; Tsebers, A. O.) Dynamics of small bubble interface perturbations in vertical Hele-Shaw cell with magnetic liquid under the action of normal magnetic field. (English and Lithuanian summaries) **2005g:76043**
Cummings, Linda Jane (*with* King, John Robert) Hele-Shaw flow with a point sink: generic solution breakdown. (English summary) **2005b:76049**
— *see also* **Waters, S. L., 2005m:76070**
Daripa, Prabir (*with* Paşa, Gelu) An optimal viscosity profile in enhanced oil recovery by polymer flooding. (English summary) **2005f:76039**
DiBenedetto, Emmanuele *see* **Andreucci, Daniele et al., 2005c:76038**
Drenckhan, W. (*with* Gatz, S.; Weaire, Denis) Wave patterns of a rivulet of surfactant solution in a Hele-Shaw cell. (English summary)
Entov, V. M. (*with* Kolganov, S. S.; Kolganova, N. V.) Motion of inviscid fluid tongues and bubbles in a Hele-Shaw cell occupied by a viscoelastic fluid. (Russian. Russian summary) **2005m:76067**
— *see also* **Alexandrou, A. N. et al., 2005g:76041**
Fang, Ming[1] (*with* Gilbert, Robert P.) Compression molding. I. A generalized non-isothermal, non-Newtonian Hele-Shaw flow. (English summary) **2005a:76065**
— *see also* **Gilbert, Robert P., 2005h:76026**
Frigaard, I. A. *see* **Pelipenko, S.**
Gatz, S. *see* **Drenckhan, W. et al.**
Gilbert, Robert P. (*with* Fang, Ming[1]) An obstacle problem in non-isothermal and non-Newtonian Hele-Shaw flows. (English summary) **2005h:76026**
— *see also* **Fang, Ming[1], 2005a:76065**
Grosfils, Patrick (*with* Boon, Jean Pierre; Chin, Jonathan; Boek, Edo S.) Structural and dynamical characterization of Hele-Shaw viscous fingering. (English summary) **2005c:76039**
Hinch, E. J. (*with* Plouraboué, F.) Kelvin-Helmholtz instability in a Hele-Shaw cell: large effect from the small region near the meniscus. (English summary) **2005m:76068**
King, John Robert *see* **Cummings, Linda Jane, 2005b:76049**
Kolganov, S. S. *see* **Alexandrou, A. N. et al., 2005g:76041** *and* **Entov, V. M. et al., 2005m:76067**
Kolganova, N. V. *see* **Alexandrou, A. N. et al., 2005g:76041** *and* **Entov, V. M. et al., 2005m:76067**
Lietuvietis, O. *see* **Cīrulis, T. et al., 2005g:76043**
Mancini, H. *see* **Bernardini, Angela et al., 2005m:76066**
Markina, Irina (*with* Vasil′ev, A. Yu.) Explicit solutions for Hele-Shaw corner flows. (English summary) **2005m:76069**
— *see also* **Vasil′ev, A. Yu., 2005i:76042**
Ortín, J. *see* **Alvarez-Lacalle, E. et al., 2005a:76064**
Paşa, Gelu The control of Saffman-Taylor instability. **2005g:76044**
— *see also* **Daripa, Prabir, 2005f:76039**
Pelipenko, S. (*with* Frigaard, I. A.) Two-dimensional computational simulation of eccentric annular cementing displacements. (English summary)
Plouraboué, F. *see* **Hinch, E. J., 2005m:76068**
Prokhorov, Dmitriĭ Valentinovich (*with* Vasil′ev, A. Yu.) Convex dynamics in Hele-Shaw cells. (English summary) **2005j:76033**
Tsebers, A. O. *see* **Cīrulis, T. et al., 2005g:76043**
Vasil′ev, A. Yu. (*with* Markina, Irina) On the geometry of Hele-Shaw flows with small surface tension. (English summary) **2005i:76042**
— *see also* **Prokhorov, Dmitriĭ Valentinovich, 2005j:76033** *and* **Markina, Irina, 2005m:76069**
Waters, S. L. (*with* Cummings, Linda Jane) Coriolis effects in a rotating Hele-Shaw cell. (English summary) **2005m:76070**
Weaire, Denis *see* **Drenckhan, W. et al.**

Items with secondary classifications in 76D27

Antontsev, Stanislav (*with* Gonçalves, César; Meirmanov, Anvarbek) Exact estimates for the classical solutions to the free-boundary problem in the Hele-Shaw cell. (English summary) **2005e:35257**
— (*with* Meirmanov, Anvarbek; Yurinskiĭ, V. V.) Weak solutions for a well-posed Hele-Shaw problem. (English and Italian summaries) **2005f:35330**
Boukrouche, Mahdi (*with* Łukaszewicz, Grzegorz) On a lubrication problem with Fourier and Tresca boundary conditions. (English summary) **2005d:35277**
Čanić, Sunčica (*with* Lamponi, Daniele; Mikelić, Andro; Tambača, Josip) Self-consistent effective equations modeling blood flow in medium-to-large compliant arteries. (English summary) **2005m:76207**
Fang, Ming[1] (*with* Gilbert, Robert P.) Compression molding. II. Existence of the solution for a Hele-Shaw type model. (English summary) **2005i:35199**
— (*with* Gilbert, Robert P.; Xu, Yongzhi S.) Viscosity dominated flows with temperature-dependent thermal conductivity. (English summary) **2005m:35234**
Feng, Xiaobing (*with* Prohl, Andreas) Analysis of a fully discrete finite element method for the phase field model and approximation of its sharp interface limits. (English summary) **2005b:74115**
— (*with* Prohl, Andreas) Numerical analysis of the Cahn-Hilliard equation and approximation of the Hele-Shaw problem. (English summary) **2005j:35098**
Gil, Omar (*with* Quirós Gracián, Fernando) Boundary layer formation in the transition from the porous media equation to a Hele-Shaw flow. (English and French summaries) **2005d:35143**
Gilbert, Robert P. *see* **Fang, Ming[1] et al., 2005i:35199** *and* **2005m:35234**
Gonçalves, César *see* **Antontsev, Stanislav et al., 2005e:35257**
Gubkina, E. V. (*with* Monakhov, V. N.) Numerical approximation of contact problems of fluid filtration. (Russian. Russian summary) **2005k:65055**
Gustafsson, Björn Lectures on balayage. (English summary) **2005k:31001**
— (*with* Prokhorov, Dmitriĭ Valentinovich; Vasil′ev, A. Yu.) Infinite lifetime for the starlike dynamics in Hele-Shaw cells. (English summary) **2005k:30019**
Khayat, Roger E. (*with* Pan, Runling) Transient free-surface flow of a viscoelastic fluid in a narrow channel. (English summary) **2005e:76006**
Krichever, Igor Moiseevich (*with* Mineev-Weinstein, M.; Wiegmann, P.; Zabrodin, A. V.) Laplacian growth and Whitham equations of soliton theory. (English summary) **2005h:37175**
Lamponi, Daniele *see* **Čanić, Sunčica et al., 2005m:76207**
Lee, Joung Nam *see* **Yang, Young-Kyun, 2005a:76078**
Lee, Long (*with* LeVeque, Randall J.) An immersed interface method for incompressible Navier-Stokes equations. (English summary) **2005a:65086**

LeVeque, Randall J. *see* **Lee, Long, 2005a:65086**
Łukaszewicz, Grzegorz *see* **Boukrouche, Mahdi, 2005d:35277**
Lunardi, Alessandra Nonlinear parabolic equations and systems. **2005j:35103**
Meirmanov, Anvarbek *see* **Antontsev, Stanislav et al., 2005e:35257** *and* **2005f:35330**
Mikelić, Andro *see* **Čanić, Sunčica et al., 2005m:76207**
Mineev-Weinstein, M. *see* **Krichever, Igor Moiseevich et al., 2005h:37175**
Monakhov, V. N. *see* **Gubkina, E. V., 2005k:65055**
Pan, Runling *see* **Khayat, Roger E., 2005e:76006**
Paşa, Gelu (*with* Titaud, Olivier) A class of viscosity profiles for oil displacement in porous media or Hele-Shaw cell. (English summary) **2005m:76173**
Prohl, Andreas *see* **Feng, Xiaobing, 2005b:74115** *and* **2005j:35098**
Prokhorov, Dmitriĭ Valentinovich *see* **Gustafsson, Björn et al., 2005k:30019**
Quirós Gracián, Fernando *see* **Gil, Omar, 2005d:35143**
Su, Jianzhong (*with* Tran, Bao Loc) Axisymmetric three-dimensional finger solutions in Mullins-Sekerka equation. (English summary) **2005c:35133**
Tambača, Josip *see* **Čanić, Sunčica et al., 2005m:76207**
Titaud, Olivier *see* **Paşa, Gelu, 2005m:76173**
Tran, Bao Loc *see* **Su, Jianzhong, 2005c:35133**
Vasil'ev, A. Yu. *see* **Gustafsson, Björn et al., 2005k:30019**
Wiegmann, P. *see* **Krichever, Igor Moiseevich et al., 2005h:37175**
Xu, Yongzhi S. *see* **Fang, Ming[1] et al., 2005m:35234**
Yang, Young-Kyun (*with* Lee, Joung Nam) On the structure of a mush. (English summary) **2005a:76078**
Yi, Fahuai Global classical solution of quasi-stationary Stefan free boundary problem. (English summary) **2005h:35377**
Yurinskiĭ, V. V. *see* **Antontsev, Stanislav et al., 2005f:35330**
Zabrodin, A. V. *see* **Krichever, Igor Moiseevich et al., 2005h:37175**

76D33 Waves

Allen, Thomas The evolution of free-disturbances in a two-dimensional nonlinear critical layer. (English summary) **2005f:76040**
Arkhipov, D. G. (*with* Khabakhpashev, G. A.) Modeling of long nonlinear waves on the interface in a horizontal two-layer viscous channel flow. (Russian. Russian summary)
Demëkhin, E. A. (*with* Kalaidin, Evgeny; Shapar', E. M.) On the theory of roll waves in inclined channels. (Russian)
Duguet, Y. (*with* Scott, Julian F.; Le Penven, L.) Destabilization of inertial waves in a rotating cylinder. (English summary) (*see* **2005b:00020**)
Higuera, María J. (*with* Knobloch, Edgar; Vega, José M.) Dynamics of nearly inviscid Faraday waves in almost circular containers. (English summary) **2005i:76043**
Jena, J. Group theoretic method for analyzing interaction of a weak discontinuity wave with a bore in shallow water waves. (English summary) **2005i:76044**
Kalaidin, Evgeny *see* **Demëkhin, E. A. et al.**
Khabakhpashev, G. A. *see* **Arkhipov, D. G.**
Knobloch, Edgar *see* **Higuera, María J. et al., 2005i:76043**
Le Penven, L. *see* **Duguet, Y. et al.,** (**2005b:00020**)
Muñoz-Ruiz, María Luz On a non-homogeneous bi-layer shallow-water problem: smoothness and uniqueness results. (English summary) **2005h:76027**
Scott, Julian F. *see* **Duguet, Y. et al.,** (**2005b:00020**)
Shapar', E. M. *see* **Demëkhin, E. A. et al.**
Shkadov, V. Ya. *see* **Tushkanov, D. A.**
Shu, Jian-Jun Transient Marangoni waves due to impulsive motion of a submerged body. (English and Ukrainian summaries)
Shushenachev, V. Yu. *see* **Tsvelodub, O. Yu., 2005m:76071**
Sukhinov, A. I. (*with* Vasiliev, V. S.) Three-dimensional models for shallow water basin and its finite difference realization. (English summary) (*see* **2005c:65004**)
Tsvelodub, O. Yu. (*with* Shushenachev, V. Yu.) Wave regimes on a nonlinearly viscous fluid film running down a vertical plane. (Russian. Russian summary) **2005m:76071**
Tushkanov, D. A. (*with* Shkadov, V. Ya.) Nonlinear waves in two-layer films. (Russian. Russian summary)
Vasiliev, V. S. *see* **Sukhinov, A. I.,** (**2005c:65004**)
Vega, José M. *see* **Higuera, María J. et al., 2005i:76043**
Yudovich, V. I. *see* **Zen'kovskaya, S. M., 2005g:76045**
Zen'kovskaya, S. M. (*with* Yudovich, V. I.) The method of integrodifferential equations and continued fractions in the problem of parametric excitation of waves. (Russian. Russian summary) **2005g:76045**

Items with secondary classifications in 76D33

Bakırtaş, İlkay (*with* Demiray, Hilmi) Weakly non-linear waves in a tapered elastic tube filled with an inviscid fluid. (English summary) **2005k:74028**
Buchner, B. *see* **Kleefsman, K. M. T. et al., 2005k:76098**
Chashechkin, Yu. D. (*with* Kistovich, A. V.) Classification of three-dimensional periodic motions in a fluid. (Russian) **2005i:76117**
Choi, Yeontaek (*with* Lvov, Yuri V.; Nazarenko, S. V.) Joint statistics of amplitudes and phases in wave turbulence. (English summary) **2005i:76067**
Demiray, Hilmi On some nonlinear waves in fluid-filled viscoelastic tubes: weakly dispersive case. (English summary) **2005g:74043**
— *see also* **Bakırtaş, İlkay, 2005k:74028**
Dias, Frédéric *see* **Zakharov, Vladimir E. et al., 2005f:76058**
Douglas, Craig C. (*with* Haase, Gundolf) Algebraic multigrid and Schur complement strategies within a multilayer spectral element ocean model. (English summary) **2005h:65163**
Fekken, G. *see* **Kleefsman, K. M. T. et al., 2005k:76098**
Haase, Gundolf *see* **Douglas, Craig C., 2005h:65163**
Iwanowski, B. *see* **Kleefsman, K. M. T. et al., 2005k:76098**
Kalliadasis, Serafim *see* **Trevelyan, Philip M. J., 2005c:76086**; **2005c:76087** *and* **2005h:76012**
Kistovich, A. V. *see* **Chashechkin, Yu. D., 2005i:76117**
Kleefsman, K. M. T. (*with* Fekken, G.; Veldman, A. E. P.; Iwanowski, B.; Buchner, B.) A volume-of-fluid based simulation method for wave impact problems. (English summary) **2005k:76098**
de Langre, E. *see* **Mathelin, L., 2005m:76064**
Lizárraga Celaya, Carlos *see* **Shingareva, Inna, 2005j:76009**
Lvov, Yuri V. *see* **Choi, Yeontaek et al., 2005i:76067**
Mancebo, Francisco J. (*with* Vega, José M.) Standing wave description of nearly conservative, parametrically driven waves in extended systems. (English summary) **2005f:76016**
Mathelin, L. (*with* de Langre, E.) Vortex-induced vibrations and waves under shear flow with a wake oscillator model. (English summary) **2005m:76064**
Nazarenko, S. V. *see* **Choi, Yeontaek et al., 2005i:76067**
Nishida, Takaaki (*with* Teramoto, Yoshiaki; Yoshihara, Hideaki) Global in time behavior of viscous surface waves: horizontally periodic motion. **2005f:35246**
Pushkarev, Andrei *see* **Zakharov, Vladimir E. et al., 2005f:76058**
Ruban, Victor P. Water waves over a time-dependent bottom: exact description for 2D potential flows. (English summary) **2005m:35320**
Shingareva, Inna (*with* Lizárraga Celaya, Carlos) Critical curves in fluid structures. (Spanish. Spanish summary) **2005j:76009**
Shkadov, V. Ya. (*with* Sisoev, G. M.) Waves induced by instability in falling films of finite thickness. (English summary) **2005e:76009**
Sisoev, G. M. *see* **Shkadov, V. Ya., 2005e:76009**
Suh, Y. K. A robust numerical method for the two-dimensional standing-wave in a tank with a free-surface movement. (English summary) (*see* **2005b:65003**)
Teramoto, Yoshiaki *see* **Nishida, Takaaki et al., 2005f:35246**
Trevelyan, Philip M. J. (*with* Kalliadasis, Serafim) Wave dynamics on a thin-liquid film falling down a heated wall. (English summary) **2005h:76012**
— (*with* Kalliadasis, Serafim) Dynamics of a reactive falling film at large Péclet numbers. I. Long-wave approximation. (English summary) **2005c:76086**
— (*with* Kalliadasis, Serafim) Dynamics of a reactive falling film at large Péclet numbers. II. Nonlinear waves far from criticality: integral-boundary-layer approximation. (English summary) **2005c:76087**
Vega, José M. Interaction of viscous mean flows and surface waves at low viscosity. (*see* **2005a:00022**)
— *see also* **Mancebo, Francisco J., 2005f:76016**
Veldman, A. E. P. *see* **Kleefsman, K. M. T. et al., 2005k:76098**
Yoshihara, Hideaki *see* **Nishida, Takaaki et al., 2005f:35246**
Zakharov, Vladimir E. (*with* Dias, Frédéric; Pushkarev, Andrei) One-dimensional wave turbulence. (English summary) **2005f:76058**

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Acero, F. J. *see* **Montanero, J. M.**
Bessonov, N. (*with* Pojman, J. A.; Vol'pert, Vit. A.) Modelling of miscible liquids and microgravity experiments. (English summary) **2005g:76046**
Betelú, S. I. (*with* Fontelos, Marco A.) Capillarity driven spreading of circular drops of shear-thinning fluid. (English summary)
Bhandar, Anand S. (*with* Vogel, Michael J.; Steen, Paul H.) Energy landscapes and bistability to finite-amplitude disturbances for the capillary bridge. (English summary) **2005b:76050**
Brinkmann, M. (*with* Kierfeld, Jan; Lipowsky, Reinhard) A general stability criterion for droplets on structured substrates. (English summary) **2005g:76047**
Córdoba, Antonio (*with* Córdoba, Diego; Fefferman, Charles Louis; Fontelos, Marco A.) A geometrical constraint for capillary jet breakup. (English summary) **2005f:76041**
Córdoba, Diego *see* **Córdoba, Antonio et al., 2005f:76041**
Darhuber, Anton A. (*with* Troian, Sandra M.) Principles of microfluidic actuation by modulation of surface stresses. (English summary) (*see* **2005h:76002**)
Denny, D. L. Existence of solutions to equations for the flow of an incompressible fluid with capillary effects. (English summary) **2005c:76040**
Duffy, B. R. *see* **Wilson, S. K., 2005m:76074**
Eggers, Jens Toward a description of contact line motion at higher capillary numbers. (English summary)
— Drop formation—an overview. (English summary)
Fefferman, Charles Louis *see* **Córdoba, Antonio et al., 2005f:76041**
Finlayson, Bruce A. *see* **Kusmanto, Febe et al., 2005e:76038**
Finn, Robert S. Floating and partly immersed balls in a weightless environment English summary) **2005m:76072**
Fontelos, Marco A. *see* **Córdoba, Antonio et al., 2005f:76041** *and* **Betelú, S. I.**
Funada, T. *see* **Wang, Jing[10] et al., 2005m:76073**
Glasner, K. B. A boundary integral formulation of quasi-steady fluid wetting. (English summary) **2005k:76039**
Gouin, Henri Thermocapillary fluid and adiabatic waves near its critical point. (English summary) (*see* **2005c:00016**)
Gunawan, A. Y. (*with* Molenaar, Jaap; van de Ven, Alphons A. F.) Break-up of a set of liquid threads under influence of surface tension. (English summary) **2005e:76041**
Jacobsen, Elissa L. *see* **Kusmanto, Febe et al., 2005e:76038**
Joseph, D. D. *see* **Wang, Jing[10] et al., 2005m:76073**
Kierfeld, Jan *see* **Brinkmann, M. et al., 2005g:76047**
Kusmanto, Febe (*with* Jacobsen, Elissa L.; Finlayson, Bruce A.) Applicability of continuum mechanics to pressure drop in small orifices. (English summary) **2005e:76038**
Lipowsky, Reinhard *see* **Brinkmann, M. et al., 2005g:76047**
Lyubimov, D. V. (*with* Lyubimova, T. P.; Shklyaev, S. V.) Non-axisymmetric oscillations of a hemispherical drop. (English summary) **2005j:76034**
Lyubimova, T. P. *see* **Lyubimov, D. V. et al., 2005j:76034**
Molenaar, Jaap *see* **Gunawan, A. Y. et al., 2005c:76041**
Monnier, Jérôme (*with* Witomski, P.) Analysis of a local hydrodynamic model with Marangoni effect. (English summary) **2005h:76028**
Montanero, J. M. (*with* Acero, F. J.) A note on the use of one-dimensional models to describe the linear dynamics of liquid bridges. (English summary)
Pismen, Len M. (*with* Pomeau, Yves) Mobility and interactions of weakly nonwetting droplets. (English summary) **2005b:76051**
Pojman, J. A. *see* **Bessonov, N. et al., 2005g:76046**

Polevikov, Viktor K. Methods for numerical modeling of two-dimensional capillary surfaces. (English summary) **2005i:76045**
Pomeau, Yves *see* **Pismen, Len M., 2005b:76051**
Purvis, R. (*with* Smith, Frank T.) Air-water interactions near droplet impact. (English summary) **2005k:76040**
Rosso, Riccardo (*with* Virga, Epifanio G.) Local stability for a general wetting functional. (English summary) **2005f:76042**
Shklyaev, S. V. *see* **Lyubimov, D. V. et al., 2005j:76034**
Smith, Frank T. *see* **Purvis, R., 2005k:76040**
Steen, Paul H. *see* **Bhandar, Anand S. et al., 2005b:76050**
Troian, Sandra M. *see* **Darhuber, Anton A., (2005h:76002)**
van de Ven, Alphons A. F. *see* **Gunawan, A. Y. et al., 2005c:76041**
Virga, Epifanio G. *see* **Rosso, Riccardo, 2005f:76042**
Vogel, Michael J. *see* **Bhandar, Anand S. et al., 2005b:76050**
Vol′pert, Vit. A. *see* **Bessonov, N. et al., 2005g:76046**
Wang, Jing[10] (*with* Joseph, D. D.; Funada, T.) Viscous contributions to the pressure for potential flow analysis of capillary instability of two viscous fluids. (English summary) **2005m:76073**
Wilson, S. K. (*with* Duffy, B. R.) A rivulet of perfectly wetting fluid draining steadily down a slowly varying substrate. (English summary) **2005m:76074**
Witomski, P. *see* **Monnier, Jérôme, 2005h:76028**

Items with secondary classifications in 76D45

Abelman, S. *see* **Momoniat, Ebrahim et al., 2005h:76011**
Amaouche, Mustapha (*with* Mehidi, Nadia; Amatousse, Nawel) An accurate modeling of thin film flows down an incline for inertia dominated regimes. (English summary) **2005f:76009**
Amatousse, Nawel *see* **Amaouche, Mustapha et al., 2005f:76009**
Arntzen, Ole Jakob Higher-order terms in the capillary limit approximation of viscous-capillary flow. (English summary) **2005c:76082**
Barrett, John W.[1] (*with* Nürnberg, Robert) Convergence of a finite-element approximation of surfactant spreading on a thin film in the presence of van der Waals forces. (English summary) **2005a:65099**
Belmonte, Andrew *see* **Podgorski, T., 2005h:76008**
Bloom, Frederick Estimating the probability of attachment by sliding in flotation modeling. (English summary)
Boek, Edo S. *see* **Grosfils, Patrick et al., 2005c:76039**
Boon, Jean Pierre *see* **Grosfils, Patrick et al., 2005c:76039**
Braverman, L. *see* **Nepomnyashchy, Alexander A. et al., 2005i:76048**
Bresch, Didier (*with* Desjardins, Benoît; Lin, Chi-Kun) On some compressible fluid models: Korteweg, lubrication, and shallow water systems. (English summary) **2005b:76109**
Carey, Graham F. *see* **Wang, Xiaowen, 2005m:76119** *and* **2005m:76120**
Casademunt, Jaume Viscous fingering as a paradigm of interfacial pattern formation: recent results and new challenges. (English summary) **2005g:76042**
Chin, Jonathan *see* **Grosfils, Patrick et al., 2005c:76039**
Chini, Gregory P. *see* **Jensen, Oliver E. et al., 2005h:76010**
Christie, Mike *see* **Subbey, Sam et al., 2005i:76108**
Clementz, Ph. (*with* Pernin, J. N.) Homogenization modeling of capillary forces in selective laser sintering. (English summary) **2005b:74108**
Desjardins, Benoît *see* **Bresch, Didier et al., 2005b:76109**
Evans, P. L. (*with* Schwartz, L. W.; Roy, R. V.) Steady and unsteady solutions for coating flow on a rotating horizontal cylinder: two-dimensional theoretical and numerical modeling. (English summary)
Finn, Robert S. Capillarity problems for compressible fluids. (English and Georgian summaries) **2005k:76116**
Flitton, J. C. (*with* King, John Robert) Surface-tension-driven dewetting of Newtonian and power-law fluids. (English summary) **2005h:76009**
Fontelos, Marco A. (*with* Friedman, Avner) Symmetry-breaking bifurcations of charged drops. (English summary) **2005b:76140**
Frid, Hermano (*with* Shelukhin, Vladimir) A quasi-linear parabolic system for three-phase capillary flow in porous media. (English summary) **2005b:35112**
Friedman, Avner *see* **Fontelos, Marco A., 2005b:76140**
Gavrilyuk, Ivan P. (*with* Lukovskiĭ, I. A.; Timokha, A. N.) Two-dimensional variational vibroequilibria and Faraday's drops. (English summary) **2005g:76100**
Golestanian, Ramin Moving contact lines on heterogeneous substrates. (English summary) **2005c:82068**
Gramlich, C. M. (*with* Mazouchi, Ali; Homsy, G. M.) Time-dependent free surface Stokes flow with a moving contact line. II. Flow over wedges and trenches. (English summary) **2005a:76053**
— *see also* **Mazouchi, Ali et al., 2005a:76052**
Grosfils, Patrick (*with* Boon, Jean Pierre; Chin, Jonathan; Boek, Edo S.) Structural and dynamical characterization of Hele-Shaw viscous fingering. (English summary) **2005c:76039**
Grün, Günther Droplet spreading under weak slippage: the waiting time phenomenon. (English and French summaries) **2005c:35146**
Hayes, Michael A. (*with* O'Brien, Stephen B. G.) The fluid profile during spin-coating over a small sinusoidal topography. (English summary) **2005f:76033**
Homsy, G. M. *see* **Mazouchi, Ali et al., 2005a:76052** *and* **Gramlich, C. M. et al., 2005a:76053**
Hosoi, A. E. *see* **Stocker, Roman, 2005i:76011**
James, Ashley J. (*with* Lowengrub, John) A surfactant-conserving volume-of-fluid method for interfacial flows with insoluble surfactant. (English summary) **2005f:76076**
Jensen, Oliver E. (*with* Chini, Gregory P.; King, John Robert) Thin-film flows near isolated humps and interior corners. (English summary) **2005h:76010**
Kim, Junseok A continuous surface tension force formulation for diffuse-interface models. (English summary) **2005j:76092**
King, John Robert *see* **Flitton, J. C., 2005h:76009** *and* **Jensen, Oliver E. et al., 2005h:76010**
Kohr, Mirela The study of a Stokes flow by the boundary integral equation method. (English summary) **2005i:76036**
Koiso, Miyuki (*with* Palmer, Bennett) On a variational problem for soap films with gravity and partially free boundary. (English summary) **2005j:49035**
Kumar, Satish[2] *see* **Matar, Omar K., 2005g:76004**
Lin, Chi-Kun *see* **Bresch, Didier et al., 2005b:76109**
Lowengrub, John *see* **James, Ashley J., 2005f:76076**
Luchini, Paolo Is a plane liquid curtain algebraically absolutely unstable? (English summary) **2005b:76061**
Lukovskiĭ, I. A. *see* **Gavrilyuk, Ivan P. et al., 2005g:76100**
Matar, Omar K. (*with* Kumar, Satish[2]) Rupture of a surfactant-covered thin liquid film on a flexible wall. (English summary) **2005g:76004**
Mazouchi, Ali (*with* Gramlich, C. M.; Homsy, G. M.) Time-dependent free surface Stokes flow with a moving contact line. I. Flow over plane surfaces. (English summary) **2005a:76052**
— *see also* **Gramlich, C. M. et al., 2005a:76053**
Mehidi, Nadia *see* **Amaouche, Mustapha et al., 2005f:76009**
Momoniat, Ebrahim (*with* Myers, T. G.; Abelman, S.) New solutions for surface tension driven spreading of a thin film. (English summary) **2005h:76011**
Myers, T. G. *see* **Momoniat, Ebrahim et al., 2005h:76011**
Nepomnyashchy, Alexander A. (*with* Simanovskii, Ilya B.) Influence of thermocapillary effect and interfacial heat release on convective oscillations in a two-layer system. (English summary) **2005a:76077**
— (*with* Simanovskii, Ilya B.; Braverman, L.) Convective oscillations in multilayer systems under the combined action of buoyancy and thermocapillary effect. (English summary) **2005i:76048**
Nürnberg, Robert *see* **Barrett, John W.[1], 2005a:65099**
O'Brien, Stephen B. G. *see* **Hayes, Michael A., 2005f:76033**
Palmer, Bennett *see* **Koiso, Miyuki, 2005j:49035**
Perigaud, Guillaume (*with* Saurel, Richard) A compressible flow model with capillary effects. (English summary) **2005k:76113**
Pernin, J. N. *see* **Clementz, Ph., 2005b:74108**
Podgorski, T. (*with* Belmonte, Andrew) Surface folding of viscoelastic fluids: finite elasticity membrane model. (English summary) **2005h:76008**
Rosso, Riccardo (*with* Virga, Epifanio G.) Sign of line tension in liquid bridge stability. (English summary) **2005m:76088**
Roy, R. V. *see* **Evans, P. L. et al.**
Sambridge, Malcolm *see* **Subbey, Sam et al., 2005i:76108**
Saurel, Richard *see* **Perigaud, Guillaume, 2005k:76113**
Schwartz, L. W. *see* **Evans, P. L. et al.**
Shelukhin, Vladimir *see* **Frid, Hermano, 2005b:35112**
Shkadov, V. Ya. (*with* Velarde, Manuel G.; Shkadova, V. P.) Falling films and the Marangoni effect. (English summary) **2005e:76010**
Shkadova, V. P. *see* **Shkadov, V. Ya. et al., 2005e:76010**
Simanovskii, Ilya B. *see* **Nepomnyashchy, Alexander A. et al., 2005a:76077** *and* **2005i:76048**
Solonnikov, Vsevolod Alekseevich On the stability of axisymmetric equilibrium figures of a rotating viscous incompressible fluid. (Russian. Russian summary) **2005d:76016**
Stocker, Roman (*with* Hosoi, A. E.) Corner flow in free liquid films. (English summary) **2005i:76011**
Subbey, Sam (*with* Christie, Mike; Sambridge, Malcolm) The impact of uncertain centrifuge capillary pressure on reservoir simulation. (English summary) **2005i:76108**
Timokha, A. N. *see* **Gavrilyuk, Ivan P. et al., 2005g:76100**
Velarde, Manuel G. *see* **Shkadov, V. Ya. et al., 2005e:76010**
Virga, Epifanio G. *see* **Rosso, Riccardo, 2005m:76088**
Wang, Xiaowen (*with* Carey, Graham F.) On Marangoni effects in a heated thin fluid layer with a monolayer surfactant. I. Model development and stability analysis. (English summary) **2005m:76119**
— (*with* Carey, Graham F.) On Marangoni effects in a heated fluid layer with a monolayer surfactant. II. Finite element formulation and numerical studies. (English summary) **2005m:76120**
Wieland, Sandra ★ Modellierung und mathematische Analyse kontaminierter dünner Flüssigkeitsfilme. (German) [Modelling and mathematical analysis of contaminated thin liquid films] **2005b:76042**

76D50 Stratification effects in viscous fluids

Items with secondary classifications in 76D50

Chashechkin, Yu. D. *see* **Davydova, M. A., 2005c:76035**
Davydova, M. A. (*with* Chashechkin, Yu. D.) The structure of three-dimensional periodic boundary layers in a continuously stratified fluid. (Russian. Russian summary) **2005c:76035**
He, Juan Xiong (*with* Yang, Xiu Qun; Yu, Zhi Hao) Well-posedness of the Cauchy problem for barotropic equations with orographic forcing. II. The viscous case. (Chinese. English and Chinese summaries) **2005f:76105**
Hooper, Alison P. *see* **Malik, Satish V., 2005i:76046**
Khristyuk, R. V. *see* **Nikishov, V. V., 2005b:76133**
Malik, Satish V. (*with* Hooper, Alison P.) Linear stability and energy growth of viscosity stratified flows. (English summary) **2005i:76046**
Muñoz-Ruiz, María Luz On a non-homogeneous bi-layer shallow-water problem: smoothness and uniqueness results. (English summary) **2005h:76027**
Nikishov, V. V. (*with* Khristyuk, R. V.) Analysis of motion of a viscous stratified fluid at presence of rotation. (English summary) **2005b:76133**
Yang, Xiu Qun *see* **He, Juan Xiong et al., 2005f:76105**
Yu, Zhi Hao *see* **He, Juan Xiong et al., 2005f:76105**

76D55 Flow control and optimization [see also 49Q10, 93C20, 93C95]

Amberg, G. *see* **Shiomi, J., 2005j:76035**
Azegami, Hideyuki *see* **Katamine, Eiji et al.**

Bärwolff, Günter (*with* Hinze, Michael) Optimization of a thermal coupled flow problem. (English summary)
Becker, Roland (*with* Rannacher, Rolf) Error control for model reduction by discretization in optimal control of flows. **2005e:76039**
Creusé, Emmanuel (*with* Mortazavi, Iraj) Simulation of low Reynolds number flow control over a backward-facing step using pulsed inlet velocities. **2005f:76043**
Deckelnick, Klaus (*with* Hinze, Michael) Semidiscretization and error estimates for distributed control of the instationary Navier-Stokes equations. (English summary) **2005c:76042**
Hintermüller, Michael (*with* Kunisch, Karl; Spasov, Yulian; Volkwein, Stefan) Dynamical systems-based optimal control of incompressible fluids. (English summary) **2005f:76044**
Hinze, Michael *see* **Deckelnick, Klaus, 2005c:76042** *and* **Bärwolff, Günter**
Itoh, Shoji *see* **Katamine, Eiji et al.**
Katamine, Eiji (*with* Azegami, Hideyuki; Tsubata, Tomoyuki; Itoh, Shoji) Solution to shape optimization problems of viscous flow fields. (English summary)
Kawahara, Mutsuto *see* **Yagi, Hiroko, 2005m:76075**
Kunisch, Karl *see* **Hintermüller, Michael et al., 2005f:76044**
Mortazavi, Iraj *see* **Creusé, Emmanuel, 2005f:76043**
Protas, Bartosz Linear feedback stabilization of laminar vortex shedding based on a point vortex model. (English summary) **2005g:76048**
Rannacher, Rolf *see* **Becker, Roland, 2005e:76039**
Shiomi, J. (*with* Amberg, G.) Proportional control of oscillatory thermocapillary convection in a toy model. (English summary) **2005j:76035**
Spasov, Yulian *see* **Hintermüller, Michael et al., 2005f:76044**
Tsubata, Tomoyuki *see* **Katamine, Eiji et al.**
Volkwein, Stefan *see* **Hintermüller, Michael et al., 2005f:76044**
Yagi, Hiroko (*with* Kawahara, Mutsuto) Shape optimization of a body located in low Reynolds number flow. (English summary) **2005m:76075**
Zavalishchin, D. S. Optimization setting of Slezkin's problem. (English summary) **2005b:76052**
Zavalishchin, S. T. Necessary conditions for optimal flow around a body in a viscous medium. (English summary) **2005a:76066**

Items with secondary classifications in 76D55

Aamo, Ole Morten (*with* Krstić, Miroslav; Bewley, Thomas R.) Control of mixing by boundary feedback in 2D channel flow. (English summary)
— (*with* Krstić, Miroslav) Global stabilization of a nonlinear Ginzburg-Landau model of vortex shedding. (English summary) **2005m:93119**
Abraham, Feby (*with* Behr, Marek; Heinkenschloss, Matthias) The effect of stabilization in finite element methods for the optimal boundary control of the Oseen equations. (English summary) **2005g:49056**
Agoshkov, V. I. Iterative processes for some boundary value problems of hydrodynamics. (English summary) **2005c:76070**
Agrachev, Andrei A. (*with* Sarychev, Andrei V.) Controllability for the Navier-Stokes equation with small control. (Russian) **2005h:93004**
Alekseev, G. V. Control problems for stationary equations of magnetohydrodynamics. (Russian)
— Solvability of control problems for stationary equations of the magnetohydrodynamics of a viscous fluid. (Russian. Russian summary) **2005f:76108**
Aman, M. (*with* Kerayechian, A.) The sensitivity analysis of the linear programming methods for the Stokes problem. (English summary)
Barbu, Viorel (*with* Triggiani, Roberto) Internal stabilization of Navier-Stokes equations with finite-dimensional controllers. (English summary) **2005k:93169**
Behr, Marek *see* **Abraham, Feby et al., 2005g:49056**
Belloni, Marino (*with* Wagner, Alfred) Newton's problem of minimal resistance in the class of bodies with prescribed volume. (English summary) **2005a:49002**
Berselli, Luigi C. (*with* Guasoni, Paolo) Some problems of shape optimization arising in stationary fluid motion. (English summary) **2005d:49059**
Bewley, Thomas R. *see* **Aamo, Ole Morten et al.**
Bochev, Pavel B. (*with* Gunzburger, Max D.) Least-squares finite-element methods for optimization and control problems for the Stokes equations. (English summary) **2005j:76056**
Deĭneka, V. S. *see* **Sergienko, Ivan V., 2005e:49079**
De los Reyes, J. C. (*with* Kunisch, Karl) A comparison of algorithms for control constrained optimal control of the Burgers equation. (English summary) **2005i:49037**
— A primal-dual active set method for bilaterally control constrained optimal control of the Navier-Stokes equations. (English summary) **2005h:49079**
Efe, Mehmet Önder (*with* Özbay, Hitay) Low dimensional modelling and Dirichlét boundary controller design for Burgers equation. (English summary) **2005e:93056**
Fernández Cara, Enrique (*with* Guerrero, Sergio; Imanuvilov, Oleg Yurievich; Puel, Jean-Pierre) Remarks on exact controllability for Stokes and Navier-Stokes systems. (English and French summaries) **2005c:93011**
— (*with* Guerrero, Sergio; Imanuvilov, Oleg Yurievich; Puel, Jean-Pierre) Local exact controllability of the Navier-Stokes system. (English and French summaries) **2005g:93013**
— (*with* Guerrero, Sergio; Imanuvilov, Oleg Yurievich; Puel, Jean-Pierre) On the controllability of the N-dimensional Navier-Stokes and Boussinesq systems with $N-1$ scalar controls. (English and French summaries) **2005i:93013**
Fourestey, Gilles (*with* Moubachir, Marwan) Solving inverse problems involving the Navier-Stokes equations discretized by a Lagrange-Galerkin method. (English summary) **2005g:65135**
Gorban′, Ī. M. *see* **Gorban′, V. A., 2005i:76041**
Gorban′, V. A. (*with* Gorban′, Ī. M.) Theoretical analysis of vortex generation processes and vortex dynamics in channels. (Ukrainian. English, Russian and Ukrainian summaries) **2005i:76041**
Guasoni, Paolo *see* **Berselli, Luigi C., 2005d:49059**
Guerrero, Sergio *see* **Fernández Cara, Enrique et al., 2005c:93011; 2005g:93013** *and* **2005i:93013**
Guillaume, Ph. (*with* Sid Idris, K.) Topological sensitivity and shape optimization for the Stokes equations. (English summary) **2005e:49081**
Gunzburger, Max D. *see* **Bochev, Pavel B., 2005j:76056**
Guo, Liu Xiao *see* **Xu, Zhen Yuan²**
(Hagen, Gregory) *see* **Aamo, Ole Morten, 2005m:93119**
Hassine, Maatoug (*with* Masmoudi, Mohamed) The topological asymptotic expansion for the quasi-Stokes problem. (English summary) **2005h:49101**
Heinkenschloss, Matthias *see* **Abraham, Feby et al., 2005g:49056**
Herrada, Miguel Angel (*with* Shtern, Vladimir) Vortex breakdown control by adding near-axis swirl and temperature gradients. (English summary) **2005a:76062**
Hinze, Michael (*with* Kunisch, Karl) Second order methods for boundary control of the instationary Navier-Stokes system. (English summary) **2005g:49061**
Imanuvilov, Oleg Yurievich *see* **Fernández Cara, Enrique et al., 2005c:93011; 2005g:93013** *and* **2005i:93013**
Kerayechian, A. *see* **Aman, M.**
Kim, Soohyun *see* **Lee, Hyung-Chun, 2005g:65174**
Krstić, Miroslav *see* **Aamo, Ole Morten et al., 2005m:93119**
Kunisch, Karl *see* **Hinze, Michael, 2005g:49061** *and* **De los Reyes, J. C., 2005i:49037**
Lee, Charles H. (*with* Tran, Hien T.) Reduced-order-based feedback control of the Kuramoto-Sivashinsky equation. (English summary) **2005e:93128**
Lee, Hyung-Chun (*with* Kim, Soohyun) Finite element approximation and computations of optimal Dirichlet boundary control problems for the Boussinesq equations. (English summary) **2005g:65174**
Li, Shu Gang Optimal controls of Boussinesq equations with state constraints. (English summary) **2005k:49067**
Lions, Jacques Louis Sur le contrôle des équations de Navier-Stokes. (French summary) [Control of Navier-Stokes equations] **2005d:76036**
Lombardo, Maria Carmela (*with* Sammartino, Marco) Delayed feedback control for the Bènard problem. (English summary) (*see* **2005c:00016**)
Lupu, Mircea *see* **Scheiber, Ernest, 2005g:49006**
Masmoudi, Mohamed *see* **Hassine, Maatoug, 2005h:49101**
Mohammadi, Bijan Sensitivity analysis and control in an elastic CAD-free framework for multi-model configurations. **2005d:74012**
— (*with* Pironneau, Olivier) Shape optimization in fluid mechanics. (English summary) **2005a:76138**
Moubachir, Marwan *see* **Fourestey, Gilles, 2005g:65135**
Murray, Richard M. *see* **Wang, Yong et al.**
Özbay, Hitay *see* **Efe, Mehmet Önder, 2005e:93056**
Paşa, Gelu The control of Saffman-Taylor instability. **2005g:76044**
Pironneau, Olivier *see* **Mohammadi, Bijan, 2005a:76138**
Puel, Jean-Pierre Inégalités de Carleman globales pour les problèmes elliptiques non homogènes. (French summary) [Global Carleman inequalities for nonhomogeneous elliptic problems] **2005d:35023**
— *see also* **Fernández Cara, Enrique et al., 2005c:93011; 2005g:93013** *and* **2005i:93013**
Riley, N. On the control of laminar flow separation. (English summary) **2005a:76061**
Rozza, Gianluigi On optimization, control and shape design of an arterial bypass. (English summary)
Sammartino, Marco *see* **Lombardo, Maria Carmela, (2005c:00016)**
Sarychev, Andrei V. *see* **Agrachev, Andrei A., 2005h:93004**
Scheiber, Ernest (*with* Lupu, Mircea) On the solution of some maximization problems based on a Jensen inequality. (English summary) **2005g:49006**
Schulz, Volker Simultaneous solution approaches for large optimization problems. (English summary) **2005a:90195**
Sergienko, Ivan V. (*with* Deĭneka, V. S.) Some problems in the ecology of soil media and the optimal control of processes occurring in them. (Russian. English and Ukrainian summaries) **2005e:49079**
Shorygin, P. O. Approximate controllability of the Navier-Stokes system in unbounded domains. (Russian. Russian summary) **2005c:93013**
— Approximate controllability of the Navier-Stokes system specified in an unbounded domain. (Russian. Russian summary) **2005e:93025**
Shtern, Vladimir *see* **Herrada, Miguel Angel, 2005a:76062**
Sid Idris, K. *see* **Guillaume, Ph., 2005e:49081**
Smaoui, Nejib Controlling the dynamics of Burgers equation with a high-order nonlinearity. (English summary) **2005m:93074**
— Nonlinear boundary control of the generalized Burgers equation. (English summary) **2005e:93144**
— Boundary and distributed control of the viscous Burgers equation. (English summary) **2005m:93078**
— *see also* **Zribi, Mohamed**
Tachim Medjo, T. (*with* Tcheugoué Tébou, L. R.) Adjoint-based iterative method for robust control problems in fluid mechanics. (English summary) **2005c:65090**
Tcheugoué Tébou, L. R. *see* **Tachim Medjo, T., 2005c:65090**
Tran, Hien T. *see* **Lee, Charles H., 2005e:93128**
Triggiani, Roberto Interior and boundary stabilization of Navier-Stokes equations (English summary) **2005e:93136**
— *see also* **Barbu, Viorel, 2005k:93169**
Turner, James C., Jr. Modelling control of crystal growth processes. (English summary) **2005g:76032**
Ulbrich, Michael Constrained optimal control of Navier-Stokes flow by semismooth Newton methods. (English summary) **2005b:49064**
Wagner, Alfred *see* **Belloni, Marino, 2005a:49002**
Wang, Li Juan Optimal control of magnetohydrodynamic equations with state constraint (English summary) **2005f:49068**
Wang, Yong (*with* Murray, Richard M.) Bifurcation control of rotating stall with actuator magnitude and rate limits. I. Model reduction and qualitative dynamics. (English summary)
— (*with* Yeung, Simon; Murray, Richard M.) Bifurcation control of rotating stall with actuator magnitude and rate limits. II. Control synthesis and comparison with experiments. (English summary)
Xu, Zhen Yuan² (*with* Guo, Liu Xiao) Synchronization of two high-frequency coupled 2D Navier-Stokes equations. (Chinese. English and Chinese summaries)
Yeung, Simon *see* **Wang, Yong et al.**
Zavalishchin, D. S. (*with* Zavalishchin, S. T.) Necessary conditions for optimal body

flowing. (*see* **2005g:00019**)
Zavalishchin, S. T. *see* **Zavalishchin, D. S., (2005g:00019)**
Zribi, Mohamed (*with* Smaoui, Nejib) Boundary control of the forced viscous Burgers equation. (English summary)

76D99 None of the above, but in this section

Agnon, Yehuda (*with* Stokes, Y. M.) An inverse modelling technique for glass forming by gravity sagging. (English summary)
Ajadi, Suraju Olusegun A note on the unsteady flow of dusty viscous fluid between two parallel plates. (English summary) **2005m:76076**
Aslan, Yaşar *see* **Öziş, Turgut, 2005h:76030**
Barış, S. (*with* Dokuz, M. S.) Flow of a binary mixture of incompressible Newtonian fluids in a rectangular channel. (English summary) **2005h:76029**
Brenier, Yann A note on deformations of 2D fluid motions using 3D Born-Infeld equations. (English summary) **2005a:76067**
Carlsson, Fredrik (*with* Sen, Mihir; Löfdahl, Lennart) Fluid mixing induced by vibrating walls. (English summary)
Chaoui, M. *see* **Pasol, L. et al.**
Dinesh, P. A. *see* **Rudraiah, N., 2005a:76068**
Dokuz, M. S. *see* **Barış, S., 2005h:76029**
Feuillebois, F. *see* **Pasol, L. et al.**
Gramberg, Heike J. J. (*with* van Vroonhoven, Jos C. W.; van de Ven, Alphons A. F.) Flow patterns behind the free flow front for a Newtonian fluid injected between two infinite parallel plates. (English summary) **2005m:76077**
Hagen, Thomas On the semigroup of linearized forced elongation. (English summary) **2005m:76078**
Jain, Naresh C. (*with* Taneja, Rajeev) On forced flow along a porous vertical wall. (English summary)
Laschet, Gottfried Homogenization of the fluid flow and heat transfer in transpiration cooled multi-layer plates. (English summary)
Löfdahl, Lennart *see* **Carlsson, Fredrik et al.**
Meinhart, Carl D. *see* **Zhu, Luoding et al.**
Nikolaeva, Natalia N. (*with* Rychagov, M. N.; Titarenko, V. N.; Yagola, A. G.) Error estimation for the reconstruction of symmetric velocity profiles in multipath measurement modules. (Russian. Russian summary) **2005b:76053**
Öziş, Turgut (*with* Aslan, Yaşar) The semi-approximate approach for solving Burgers' equation with high Reynolds number. (English summary) **2005h:76030**
Pasol, L. (*with* Chaoui, M.; Yahiaoui, Samir; Feuillebois, F.) Analytical solutions for a spherical particle near a wall in axisymmetrical polynomial creeping flows. (English summary)
Petzold, Linda R. *see* **Zhu, Luoding et al.**
Roberts, A. J. Shear dispersion along circular pipes is affected by bends, but the torsion of the pipe is negligible. (English summary) **2005h:76031**
Roisman, Ilia V. Dynamics of inertia dominated binary drop collisions. (English summary)
Rousseau, Antoine André (*with* Temam, Roger; Tribbia, J.) Boundary layers in an ocean related system. (English summary) **2005m:76079**
Rudraiah, N. (*with* Dinesh, P. A.) Nonlinear flow between permeable disks using computer-extended sseries method. (English summary) **2005a:76068**
Rychagov, M. N. *see* **Nikolaeva, Natalia N. et al., 2005b:76053**
Sen, Mihir *see* **Carlsson, Fredrik et al.**
Starovoĭtov, V. N. Behavior of a rigid body in an incompressible viscous fluid near a boundary. (English summary) **2005a:76069**
Stokes, Y. M. *see* **Agnon, Yehuda**
Taneja, Rajeev *see* **Jain, Naresh C.**
Temam, Roger *see* **Rousseau, Antoine André et al., 2005m:76079**
Titarenko, V. N. *see* **Nikolaeva, Natalia N. et al., 2005b:76053**
Tretheway, Derek *see* **Zhu, Luoding et al.**
Tribbia, J. *see* **Rousseau, Antoine André et al., 2005m:76079**
van de Ven, Alphons A. F. *see* **Gramberg, Heike J. J. et al., 2005m:76077**
van Vroonhoven, Jos C. W. *see* **Gramberg, Heike J. J. et al., 2005m:76077**
Yagola, A. G. *see* **Nikolaeva, Natalia N. et al., 2005b:76053**
Yahiaoui, Samir *see* **Pasol, L. et al.**
Zhu, Luoding (*with* Tretheway, Derek; Petzold, Linda R.; Meinhart, Carl D.) Simulation of fluid slip at 3D hydrophobic microchannel walls by the lattice Boltzmann method. (English summary)

Items with secondary classifications in 76D99

Bhat, M. V. *see* **Shah, Rajesh C.**
Bhatta, Dambaru D. *see* **Debnath, Lokenath, 2005d:26009**
Canuto, Claudio (*with* Tabacco Vignati, Anita) Anisotropic wavelets along vector fields and applications to PDE's. (English and Arabic summaries) **2005b:42025**
Coutand, Daniel (*with* Shkoller, Steve) Turbulent channel flow in weighted Sobolev spaces using the anisotropic Lagrangian averaged Navier-Stokes (LANS-α) equations. (English summary) **2005j:76045**
Dawson, Clint (*with* Proft, Jennifer) Discontinuous/continuous Galerkin methods for coupling the primitive and wave continuity equations of shallow water. (English summary) **2005h:76053**
Debnath, Lokenath (*with* Bhatta, Dambaru D.) Solutions to few linear fractional inhomogeneous partial differential equations in fluid mechanics. (English summary) **2005d:26009**
Ding, Dan Ping (*with* Tian, Li Xin; Xu, Gang) Dynamic behavior of a generalized Camassa-Holm equation with dissipation. (Chinese. English and Chinese summaries)
Dobrovol'skiĭ, I. P. Hydrodynamic phenomena. (Russian. Russian summary)
Dogan, Abdulkadir A Galerkin finite element approach to Burgers' equation. (English summary)
Eggers, Jens Drop formation—an overview. (English summary)
Elshehawey, E. F. (*with* Gharsseldien, Z. M.) Peristaltic transport of three-layered flow with variable viscosity. (English summary) **2005a:76179**
Filip, Diana Andrada ★ Numerical methods in the dynamics of the solid-fluid system. **2005e:76014**
Frank, A. M. ★ Дискретные модели несжимаемой жидкости. (Russian) [Discrete models of an incompressible fluid] **2005m:76134**
Gharsseldien, Z. M. *see* **Elshehawey, E. F., 2005a:76179**
Glasser, Benjamin J. *see* **Howley, Maureen A., 2005i:76109**
Glowinski, Roland *see* **Juárez V., L. Héctor, (2005f:65003)**
Greenspan, Donald A particle model of fluid sloshing. (English summary) **2005m:76141**
Howley, Maureen A. (*with* Glasser, Benjamin J.) A comparison of one-dimensional traveling waves in inverse and normal fluidized beds. (English summary) **2005i:76109**
Iaccarino, Gianluca *see* **Mittal, Rajat, 2005m:76137**
Juárez V., L. Héctor (*with* Glowinski, Roland) Numerical simulation of the motion of pendula in an incompressible viscous fluid by Lagrange multiplier/fictitious domain methods. (*see* **2005f:65003**)
Kapustyan, A. V. On the existence of global attractors for a class of cascade systems. (Ukrainian. English and Ukrainian summaries) **2005k:37181**
Karniadakis, George Em *see* **Xiu, Dongbin, 2005f:76078**
Kas-Danouche, S. (*with* Papageorgiou, Demetrios T.; Siegel, Michael) A mathematical model for core-annular flows with surfactants. (English and Spanish summaries) **2005j:76040**
Lee, Jihoon (*with* Wu, Ming-Yih) Ergodicity for the dissipative Boussinesq equations with random forcing. (English summary) **2005i:35219**
Mittal, Rajat (*with* Iaccarino, Gianluca) Immersed boundary methods. **2005m:76137**
Mudde, Robert F. Gravity-driven bubbly flows. (English summary) **2005i:76110**
Oparina, E. I. (*with* Troshkin, O. V.) Stability of a Kolmogorov flow in a channel with rigid walls. (Russian) **2005m:76081**
Papageorgiou, Demetrios T. *see* **Kas-Danouche, S. et al., 2005j:76040**
Proft, Jennifer *see* **Dawson, Clint, 2005h:76053**
Reynolds, C. N. *see* **Truman, Aubrey et al., 2005k:60205**
Roquet, Nicolas (*with* Saramito, Pierre) Stick-slip transition capturing by using an adaptive finite element method. (English summary) **2005a:76105**
Saramito, Pierre *see* **Roquet, Nicolas, 2005a:76105**
Shah, Rajesh C. (*with* Bhat, M. V.) Ferrofluid squeeze film between curved annular plates including rotation of magnetic particles. (English summary)
Shkoller, Steve *see* **Coutand, Daniel, 2005j:76045**
Siegel, Michael *see* **Kas-Danouche, S. et al., 2005j:76040**
Solonnikov, Vsevolod Alekseevich On the stability of nonsymmetric equilibrium figures of a rotating viscous incompressible liquid. (English summary) **2005h:76032**
Tabacco Vignati, Anita *see* **Canuto, Claudio, 2005b:42025**
Tian, Li Xin *see* **Ding, Dan Ping et al.**
Troshkin, O. V. *see* **Oparina, E. I., 2005m:76081**
Truman, Aubrey (*with* Reynolds, C. N.; Williams, David) Stochastic Burgers equation in D-dimensions—a one-dimensional analysis: hot and cool caustics and intermittence of stochastic turbulence. (English summary) **2005k:60205**
Voss, Heinrich Locating real eigenvalues of a spectral problem in fluid-solid type structures. **2005m:35203**
Wang, Cheng[4] The primitive equations formulated in mean vorticity. (English summary) **2005g:86010**
Williams, David *see* **Truman, Aubrey et al., 2005k:60205**
Wu, Ming-Yih *see* **Lee, Jihoon, 2005i:35219**
Xiu, Dongbin (*with* Karniadakis, George Em) Supersensitivity due to uncertain boundary conditions. (English summary) **2005f:76078**
Xu, Gang *see* **Ding, Dan Ping et al.**

76Exx Hydrodynamic stability

Bichir, Cătălin Liviu ★ Stabilitate hidrodinamică teoretică şi numerică. (Romanian) [Theoretical and numerical hydrodynamical stability] **2005c:76043**
Drazin, P. G. (*with* Reid, W. H.) ★ Hydrodynamic stability. **2005g:76049**
(Georgescu, Adelina) *see* **Bichir, Cătălin Liviu, 2005c:76043**
(Miles, John) *see* **Drazin, P. G., 2005g:76049**
Reid, W. H. *see* **Drazin, P. G., 2005g:76049**

76E05 Parallel shear flows

Airiau, Christophe (*with* Castets, Mélanie) On the amplification of small disturbances in a channel flow with a normal magnetic field. (English summary) **2005b:76054**
Bergström, Lars B. Nonmodal growth of three-dimensional disturbances on plane Couette-Poiseuille flows. (English summary) **2005g:76050**
Boeck, Thomas (*with* Zaleski, Stéphane) Viscous versus inviscid instability of two-phase mixing layers with continuous velocity profile. (English summary) **2005k:76041**
Burroughs, Elizabeth A. (*with* Romero, Louis A.; Lehoucq, Richard B.; Salinger, Andrew G.) Linear stability of flow in a differentially heated cavity via large-scale eigenvalue calculations. (English summary)
Castets, Mélanie *see* **Airiau, Christophe, 2005b:76054**
Churilov, S. M. On the stability of stratified shear flows with a monotonic velocity profile without inflection points. (Russian) **2005k:76042**
Duck, Peter W. (*with* Owen, Jonathan) Non-modal stability and breakdown in corner and three-dimensional boundary layers. (English summary) **2005a:76070**
— Transient growth in developing plane and Hagen Poiseuille flow. (English summary) **2005m:76080**
Gavrilyuk, S. L. (*with* Teshukov, Vladimir) Linear stability of parallel inviscid flows of shallow water and bubbly fluid. (English summary) **2005c:76044**
Greenberg, Leon (*with* Marletta, Marco) The Ekman flow and related problems: spectral theory and numerical analysis. (English summary) **2005g:76051**
Grenier, Emmanuel Boundary layers. **2005j:76036**
Gunawan, A. Y. (*with* Molenaar, Jaap; van de Ven, Alphons A. F.) Does shear flow stabilize an immersed thread? (English summary) **2005j:76037**
Hooper, Alison P. *see* **Malik, Satish V., 2005i:76046**

Itano, Toshihisa Stability of elliptic flow with a horizontal axis under stable stratification. (English summary) **2005a:76071**
Lahmann, Jan-Rainer (*with* Plum, Michael) A computer-assisted instability proof for the Orr-Sommerfeld equation with Blasius profile. (English summary) **2005c:76045**
Lehoucq, Richard B. *see* **Burroughs, Elizabeth A. et al.**
Malik, Satish V. (*with* Hooper, Alison P.) Linear stability and energy growth of viscosity stratified flows. (English summary) **2005i:76046**
Manuilovich, S. V. Spatial evolution of nonstationary perturbations in Hamel flow. (Russian. Russian summary) **2005c:76046**
— Propagation of a Tollmien-Schlichting wave over the junction between rigid and compliant surfaces. (Russian. Russian summary) **2005i:76047**
Marletta, Marco *see* **Greenberg, Leon, 2005g:76051**
Mikhailenko, Vladimir S. (*with* Scime, Earl E.; Mikhailenko, Vladimir V.) Stability of stratified flow with inhomogeneous shear. (English summary) **2005k:76043**
Mikhailenko, Vladimir V. *see* **Mikhailenko, Vladimir S. et al., 2005k:76043**
Molenaar, Jaap *see* **Gunawan, A. Y. et al., 2005j:76037**
Motsa, S. S. *see* **Sibanda, P. et al., 2005d:76014**
Nagatou, K. A computer-assisted proof on the stability of the Kolmogorov flows of incompressible viscous fluid. (English summary) **2005c:76047**
Oparina, E. I. (*with* Troshkin, O. V.) Stability of a Kolmogorov flow in a channel with rigid walls. (Russian) **2005m:76081**
Otto, S. R. *see* **Watson, C. E., 2005k:76044**
Owen, Jonathan *see* **Duck, Peter W., 2005a:76070**
Plum, Michael *see* **Lahmann, Jan-Rainer, 2005c:76045**
Romero, Louis A. *see* **Burroughs, Elizabeth A. et al.**
Salinger, Andrew G. *see* **Burroughs, Elizabeth A. et al.**
Scime, Earl E. *see* **Mikhailenko, Vladimir S. et al., 2005k:76043**
Shapiro, Evgeniy (*with* Timoshin, Sergei) On the patterns of interaction between shear and interfacial modes in plane air-water Poiseuille flow. (English summary) **2005m:76082**
Shateyi, S. *see* **Sibanda, P. et al., 2005d:76014**
Sibanda, P. (*with* Motsa, S. S.; Shateyi, S.) Linear stability of two-dimensional flow to three-dimensional perturbations in a channel with a flexible wall. (English summary) **2005d:76014**
Teshukov, Vladimir *see* **Gavrilyuk, S. L., 2005c:76044**
Timoshin, Sergei *see* **Shapiro, Evgeniy, 2005m:76082**
Troshkin, O. V. *see* **Oparina, E. I., 2005m:76081**
van de Ven, Alphons A. F. *see* **Gunawan, A. Y. et al., 2005j:76037**
Wang, Zhi Liang (*with* Zhou, Zhe Wei) On the receptivity of pipe Poiseuille flow with a bump on the wall under the periodical pressure. (Chinese. English and Chinese summaries)
Watson, C. E. (*with* Otto, S. R.) The stability of a curved, heated boundary layer: linear and nonlinear problems. (English summary) **2005k:76044**
Zaleski, Stéphane *see* **Boeck, Thomas, 2005k:76041**
Zhou, Zhe Wei *see* **Wang, Zhi Liang**

Items with secondary classifications in 76E05

Allen, Thomas The evolution of free disturbances on an initially two-dimensional inflectional boundary-layer flow. (English summary) **2005a:76059**
Bingham, Harry B. *see* **Fuhrman, David R. et al., 2005a:76110**
Brandt, Luca *see* **Cossu, Carlo, 2005e:76035**
Cossu, Carlo (*with* Brandt, Luca) On Tollmien-Schlichting-like waves in streaky boundary layers. (English summary) **2005e:76035**
Daripa, Prabir (*with* Paşa, Gelu) An optimal viscosity profile in enhanced oil recovery by polymer flooding. (English summary) **2005f:76039**
Fabijonas, Bruce R. (*with* Holm, Darryl D.) Euler-Poincaré formulation and elliptic instability for nth-gradient fluids. (English summary) **2005g:76003**
Fuhrman, David R. (*with* Bingham, Harry B.; Madsen, Per A.; Thomsen, Per G.) Linear and non-linear stability analysis for finite difference discretizations of high-order Boussinesq equations. (English summary) **2005a:76110**
Holm, Darryl D. *see* **Fabijonas, Bruce R., 2005g:76003**
Hong, Lan (*with* Hunter, John K.) Singularity formation and instability in the unsteady inviscid and viscous Prandtl equations. (English summary) **2005k:76035**
Hunter, John K. *see* **Hong, Lan, 2005k:76035**
Kaiser, Ralf (*with* Mulone, Giuseppe) A note on nonlinear stability of plane parallel shear flows. (English summary) **2005h:35283**
Madsen, Per A. *see* **Fuhrman, David R. et al., 2005a:76110**
Manuilovich, S. V. On the perturbation of Hamel flow due to unevenness of the channel walls. (Russian. Russian summary) **2005f:76034**
Mulone, Giuseppe *see* **Kaiser, Ralf, 2005h:35283**
Noble, Pascal Existence et stabilité de roll-waves pour les équations de Saint Venant. (English and French summaries) [Existence and stability of roll-waves for the Saint-Venant equations] **2005a:35227**
Palmer, A. S. (*with* Phillips, T. N.) Numerical approximation of the spectra of Phan-Thien Tanner liquids. (English summary) **2005m:76013**
Paşa, Gelu *see* **Daripa, Prabir, 2005f:76039**
Phillips, T. N. *see* **Palmer, A. S., 2005m:76013**
Rees, D. A. S. Nonlinear vortex instabilities in free convective boundary layers in porous media. (*see* **2005c:76001**)
Savenkov, I. V. Transformation of acoustic disturbances into Tollmien-Schlichting waves in a boundary layer at transonic velocities of the external flow. (Russian. Russian summary) **2005k:76070**
Shibata, Yoshihiro On some stability theorem of the steady flow of compressible viscous fluid with respect to the initial disturbance. **2005b:35232**
Tabak, Esteban G. (*with* Tal, Fabio A.) Turbulent mixing of stratified flows. (English summary) **2005h:76046**
Tal, Fabio A. *see* **Tabak, Esteban G., 2005h:76046**
Thomsen, Per G. *see* **Fuhrman, David R. et al., 2005a:76110**
Yudovich, V. I. *see* **Zen'kovskaya, S. M., 2005g:76045**
Zen'kovskaya, S. M. (*with* Yudovich, V. I.) The method of integrodifferential equations and continued fractions in the problem of parametric excitation of waves. (Russian. Russian summary) **2005g:76045**

76E06 Convection

Andreev, V. K. (*with* Bekezhanova, V. B.) Stability of steady flow in a vertical layer in the microconvection model. (Russian. Russian summary) **2005b:76055**
Barbera, E. Onset of Rayleigh-Bénard convection in gases—classical and extended thermodynamics. (English summary) **2005a:76072**
Bekezhanova, V. B. *see* **Andreev, V. K., 2005b:76055**
Bhadauria, B. S. (*with* Debnath, Lokenath) Effects of modulation on Rayleigh-Benard convection. I. **2005a:76073**
Birner, Michael (*with* Kaiser, Ralf) Stability balls in the rotating Bénard system. (English summary) **2005e:76040**
Bontoux, Patrick *see* **Czarny, Olivier et al., 2005a:76074**
Braverman, L. *see* **Nepomnyashchy, Alexander A. et al., 2005i:76048**
Busse, Friedrich H. On thermal convection in slowly rotating systems. (English summary) **2005e:76041**
Camassa, Roberto *see* **Choi, Wooyoung et al., 2005e:76042**
Capone, F. (*with* Rionero, Salvatore) On the onset of convection for a double diffusive mixture in a porous medium under periodic in space boundary data. (English summary) (*see* **2005c:00016**)
Choi, Wooyoung (*with* Prasad, Dilip; Camassa, Roberto; Ecke, Robert E.) Traveling waves in rotating Rayleigh-Bénard convection. (English summary) **2005e:76042**
Czarny, Olivier (*with* Serre, Eric; Bontoux, Patrick; Lueptow, Richard M.) Interaction of wavy cylindrical Couette flow with endwalls. (English summary) **2005a:76074**
Debnath, Lokenath *see* **Bhadauria, B. S., 2005a:76073**
Díaz Díaz, Jesús Ildefonso (*with* Straughan, B.) Global stability for convection when the viscosity has a maximum. (English summary) **2005a:76075**
Dormy, Emmanuel *see* **Morin, V., 2005a:76076**
Ecke, Robert E. *see* **Choi, Wooyoung et al., 2005e:76042**
Frankel, Itzchak *see* **Manela, Avshalom**
Georgescu, Adelina *see* **Palese, Lidia, 2005b:76056**
Giralt, Francesc *see* **Puigjaner, D. et al., 2005e:76043**
Guidoboni, Giovanna (*with* Padula, Mariarosaria) On the Bénard problem. (English summary) **2005m:76083**
Herrero, Joan *see* **Puigjaner, D. et al., 2005e:76043**
Kaiser, Ralf *see* **Birner, Michael, 2005e:76040**
Kamenov, O. Fractional-differential model of convection stability. (English summary) **2005f:76045**
Krot, A. M. (*with* Tkachova, Palina P.) Investigation of geometric shapes of hydrodynamic structures for identification of dynamical states of convective liquid. (English summary) (*see* **2005g:65008**)
Lee, Joung Nam *see* **Yang, Young-Kyun, 2005a:76078**
Lombardo, Maria Carmela (*with* Sammartino, Marco) Delayed feedback control for the Bènard problem. (English summary) (*see* **2005c:00016**)
Lueptow, Richard M. *see* **Czarny, Olivier et al., 2005a:76074**
Ma, Tian (*with* Wang, Shou Hong) Dynamic bifurcation and stability in the Rayleigh-Bénard convection. (English summary) **2005j:76038**
Manela, Avshalom (*with* Frankel, Itzchak) On the Rayleigh-Bénard problem in the continuum limit. (English summary)
Morin, V. (*with* Dormy, Emmanuel) Time dependent β-convection in rapidly rotating spherical shells. (English summary) **2005a:76076**
Motsa, S. S. *see* **Shateyi, S. et al., 2005i:76049**
Néel, Marie-Christine *see* **Nisse, Lamine, 2005m:76084**
Nepomnyashchy, Alexander A. (*with* Simanovskii, Ilya B.) Influence of thermocapillary effect and interfacial heat release on convective oscillations in a two-layer system. (English summary) **2005a:76077**
— (*with* Simanovskii, Ilya B.; Braverman, L.) Convective oscillations in multilayer systems under the combined action of buoyancy and thermocapillary effect. (English summary) **2005i:76048**
Nisse, Lamine (*with* Néel, Marie-Christine) Spectral stability of convective rolls in porous media. (English summary) **2005m:76084**
Núñez Jiménez, Manuel Uniform estimates on the velocity in Rayleigh-Bénard convection. (English summary) **2005k:76045**
Padula, Mariarosaria *see* **Guidoboni, Giovanna, 2005m:76083**
Palese, Lidia (*with* Georgescu, Adelina) On instability of the magnetic Bénard problem with Hall and ion-slip effects. (English summary) **2005b:76056**
Paolucci, Samuel *see* **Suslov, Sergey A., 2005c:76048**
Prasad, Dilip *see* **Choi, Wooyoung et al., 2005e:76042**
Puigjaner, D. (*with* Herrero, Joan; Giralt, Francesc; Simó, C.) Stability analysis of the flow in a cubical cavity heated from below. (English summary) **2005e:76043**
Rionero, Salvatore *see* **Capone, F., (2005c:00016)**
Sammartino, Marco *see* **Lombardo, Maria Carmela, (2005c:00016)**
Serre, Eric *see* **Czarny, Olivier et al., 2005a:76074**
Shateyi, S. (*with* Sibanda, P.; Motsa, S. S.) An asymptotic analysis of convection in boundary layer flows in the presence of a chemical reaction. (English summary) **2005i:76049**
Sibanda, P. *see* **Shateyi, S. et al., 2005i:76049**
Simanovskii, Ilya B. *see* **Nepomnyashchy, Alexander A. et al., 2005a:76077** *and* **2005i:76048**
Simó, C. *see* **Puigjaner, D. et al., 2005e:76043**
Straughan, B. *see* **Díaz Díaz, Jesús Ildefonso, 2005a:76075**
Suslov, Sergey A. (*with* Paolucci, Samuel) Stability of non-Boussinesq convection via the complex Ginzburg-Landau model. (English summary) **2005c:76048**
Tkachova, Palina P. *see* **Krot, A. M., (2005g:65008)**
Wang, Shou Hong *see* **Ma, Tian, 2005j:76038**
Wang, Xiao Ming[1] Large Prandtl number behavior of the Boussinesq system of Rayleigh-Bénard convection. (English summary) **2005g:76052**
— Infinite Prandtl number limit of Rayleigh-Bénard convection. (English summary) **2005d:76015**

Yang, Young-Kyun (*with* Lee, Joung Nam) On the structure of a mush. (English summary) **2005a:76078**

Items with secondary classifications in 76E06

Akyildiz, F. Talay (*with* Bellout, Hamid) Chaos in the thermal convection of a Newtonian fluid with a temperature dependent viscosity. (English summary) **2005h:76075**
Amahmid, A. *see* **Bourich, M. et al.**, (2005c:76001)
Amberg, G. *see* **Shiomi, J.**, 2005j:76035
Bellout, Hamid *see* **Akyildiz, F. Talay**, 2005h:76075
Bichir, Cătălin Liviu (*with* Georgescu, Adelina; Palese, Lidia) A nonlinear hydrodynamic stability criterion derived by a generalized energy method. (English summary) **2005m:76093**
Blyth, M. G. (*with* Pozrikidis, C.) Effect of inertia on the Marangoni instability of two-layer channel flow. II. Normal-mode analysis. (English summary) **2005h:76035**
Bourich, M. (*with* Mamou, M.; Hasnaoui, M.; Amahmid, A.) On stability analysis of Soret convection within a horizontal porous layer. (*see* **2005c:76001**)
Carey, Graham F. *see* **Wang, Xiaowen**, 2005m:76119 *and* 2005m:76120
Dawes, J. H. P. (*with* Postlethwaite, C. M.; Proctor, M. R. E.) Instabilities induced by a weak breaking of a strong spatial resonance. (English summary) **2005g:37146**
Delcarte, C. *see* **Nguyen, Sébastien**, 2005f:65162
Fu, Qiang (*with* Li, Li; Xia, Keqing) Coherent structure and its influence to scaling law in Rayleigh-Bénard convection based on wavelet transformation. (English summary) (*see* **2005i:42002**)
Furati, Khaled M. (*with* Kirane, Mokhtar; Tatar, Nasser-Eddine) Existence and asymptotic behavior for a convection problem. (English summary) **2005m:76164**
García-Archilla, B. *see* **Sánchez Umbría, Juan Jose et al.**, 2005f:76032
Georgescu, Adelina (*with* Palese, Lidia) Improved criteria in convection problems in the presence of thermodiffusive conductivity. (English summary) **2005j:35176**
— *see also* **Palese, Lidia**, 2005c:76052 *and* **Bichir, Cătălin Liviu et al.**, 2005m:76093
Guidoboni, Giovanna (*with* Jin, Bum Ja) On the nonlinear stability of Marangoni-Bénard problem with free surface in the Boussinesq approximation. (English summary) **2005i:76056**
Hasnaoui, M. *see* **Bourich, M. et al.**, (2005c:76001)
Hill, Antony A. Conditional and unconditional nonlinear stability for convection induced by absorption of radiation in a porous medium. (English summary) **2005e:76078**
— Double-diffusive convection in a porous medium with a concentration based internal heat source. (English summary) **2005k:76131**
Huang, Yong Nian[2] *see* **Xu, Lanxi et al.**, 2005g:76055
Ion, Anca-Veronica Existence of an inertial manifold for a Bénard convection problem. (English summary) **2005d:37162**
Jin, Bum Ja *see* **Guidoboni, Giovanna**, 2005i:76056
Julien, Keith (*with* Knobloch, Edgar; Tobias, Steve) Highly supercritical convection in strong magnetic fields. **2005i:76122**
Kaloni, P. N. (*with* Lou, J. X.) Nonlinear convection of a viscoelastic fluid with inclined temperature gradient. (English summary) **2005k:76011**
Kandaswamy, P. *see* **Saravanan, S.**, 2005a:76085
Keller, Bruno *see* **Rees, D. A. S. et al.**
Kirane, Mokhtar *see* **Furati, Khaled M. et al.**, 2005m:76164
Knobloch, Edgar *see* **Julien, Keith et al.**, 2005i:76122
Kofané, Timoléon C. *see* **Ngamga Ketchamen, E. J. et al.**
Li, Li *see* **Fu, Qiang et al.**, (2005i:42002)
Liu, Hailiang (*with* Tadmor, Eitan) Rotation prevents finite-time breakdown. (English summary) **2005a:76161**
Lou, J. X. *see* **Kaloni, P. N.**, 2005k:76011
Lyubimov, D. V. (*with* Shklyaev, S. V.) Long-wave convection in a two-layer system. (Russian. Russian summary) **2005i:76099**
Magyari, E. *see* **Rees, D. A. S. et al.**
Mal'kovskiĭ, V. I. (*with* Pèk, A. A.) Conditions for the onset of thermal convection of a single-phase fluid in a vertical open fault. (Russian. Russian summary)
Mamou, M. *see* **Bourich, M. et al.**, (2005c:76001)
Nana, L. *see* **Ngamga Ketchamen, E. J. et al.**
Net, M. *see* **Sánchez Umbría, Juan Jose et al.**, 2005f:76032
Ngamga Ketchamen, E. J. (*with* Nana, L.; Kofané, Timoléon C.) Strange nonchaotic attractors in a fifth-order amplitude equation of Rayleigh-Bénard system near the codimension-two point. (English summary)
Nguyen, Sébastien (*with* Delcarte, C.) A spectral collocation method to solve Helmholtz problems with boundary conditions involving mixed tangential and normal derivatives. (English summary) **2005f:65162**
Othman, Mohamed I. A. Electrohydrodynamic instability of a rotating layer of a viscoelastic fluid heated from below. (English summary) **2005a:76084**
Palese, Lidia (*with* Georgescu, Adelina) Lyapunov method applied to the anisotropic Bénard problem. (English summary) **2005c:76052**
— *see also* **Georgescu, Adelina**, 2005j:35176 *and* **Bichir, Cătălin Liviu et al.**, 2005m:76093
Pèk, A. A. *see* **Mal'kovskiĭ, V. I.**
Postlethwaite, C. M. *see* **Dawes, J. H. P. et al.**, 2005g:37146
Pozrikidis, C. Effect of inertia on the Marangoni instability of two-layer channel flow. I. Numerical simulations. (English summary) **2005h:76034**
— *see also* **Blyth, M. G.**, 2005h:76035
Proctor, M. R. E. *see* **Dawes, J. H. P. et al.**, 2005g:37146
Rees, D. A. S. (*with* Magyari, E.; Keller, Bruno) Vortex instability of the asymptotic dissipation profile in a porous medium. (English summary)
Riaz, Amir (*with* Tchelepi, Hamdi A.) Linear stability analysis of immiscible two-phase flow in porous media with capillary dispersion and density variation. (English summary)
Sánchez Umbría, Juan Jose (*with* Net, M.; García-Archilla, B.; Simó, C.) Newton-Krylov continuation of periodic orbits for Navier-Stokes flows. (English summary) **2005f:76032**
Saravanan, S. (*with* Kandaswamy, P.) Hydromagnetic stability of convective flow of variable viscosity fluids generated by internal heat sources. (English summary) **2005a:76085**
Shiomi, J. (*with* Amberg, G.) Proportional control of oscillatory thermocapillary convection in a toy model. (English summary) **2005j:76035**
Shklyaev, S. V. *see* **Lyubimov, D. V.**, 2005i:76099
Simó, C. *see* **Sánchez Umbría, Juan Jose et al.**, 2005f:76032
Straughan, B. Resonant porous penetrative convection. (English summary) **2005e:76081**
Tadmor, Eitan *see* **Liu, Hailiang**, 2005a:76161
Tatar, Nasser-Eddine *see* **Furati, Khaled M. et al.**, 2005m:76164
Tchelepi, Hamdi A. *see* **Riaz, Amir**
Tobias, Steve *see* **Julien, Keith et al.**, 2005i:76122
von Wahl, Wolf *see* **Xu, Lanxi et al.**, 2005g:76055
Wang, Xiaowen (*with* Carey, Graham F.) On Marangoni effects in a heated thin fluid layer with a monolayer surfactant. I. Model development and stability analysis. (English summary) **2005m:76119**
— (*with* Carey, Graham F.) On Marangoni effects in a heated fluid layer with a monolayer surfactant. II. Finite element formulation and numerical studies. (English summary) **2005m:76120**
Wei, Juncheng (*with* Winter, Matthias) On a cubic-quintic Ginzburg-Landau equation with global coupling. (English summary) **2005j:35113**
Winter, Matthias *see* **Wei, Juncheng**, 2005j:35113
Xia, Keqing *see* **Fu, Qiang et al.**, (2005i:42002)
Xu, Jian Jun[1] Dynamics of dendritic growth interacting with convective flow. (English summary) **2005d:80006**
Xu, Lanxi (*with* von Wahl, Wolf; Huang, Yong Nian[2]) A new approach to the nonlinear stability of a motionless heterogeneous fluid. (English summary) **2005g:76055**
Zheligovskiĭ, V. A. Convective plan-form of two-scale dynamos in a plane layer. (English summary) **2005k:76142**

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Abshagen, Jan *see* **Langenberg, J. et al.**
Ali, Mohamed E. (*with* McFadden, G. B.) Linear stability of cylindrical Couette flow in the convection regime. (English summary)
Barenghi, Carlo F. *see* **Youd, Anthony J. et al.**
Delbende, Ivan (*with* Rossi, Maurice) Nonlinear evolution of a swirling jet instability. (English summary) **2005k:76046**
Drozdov, S. M. Bifurcation corresponding to the onset of asymmetric periodic structures and a self-induced pressure gradient in a modified Taylor flow. (Russian. Russian summary) **2005c:76049**
Elperin, Tov (*with* Golubev, Ilia; Kleeorin, Nathan; Rogachevskii, Igor) Excitation of large-scale inertial waves in a rotating inhomogeneous turbulence. (English summary) **2005k:76047**
Golubev, Ilia *see* **Elperin, Tov et al.**, 2005k:76047
Khayat, Roger E. *see* **Li, Zhenyu**, 2005e:76044
Kleeorin, Nathan *see* **Elperin, Tov et al.**, 2005k:76047
Laanearu, Janek (*with* Lundberg, Peter) Analysis and improvement of a perturbation solution for hydraulic flow in a rotating parabolic channel. (English summary) **2005m:76085**
Langenberg, J. (*with* Pfister, Gerd; Abshagen, Jan) The effect of physical boundaries on oscillatory bifurcation in counterrotating Taylor-Couette flow. (English summary)
Li, Zhenyu (*with* Khayat, Roger E.) Pattern formation in weakly forced Taylor-Couette flow. (English summary) **2005e:76044**
Lundberg, Peter *see* **Laanearu, Janek**, 2005m:76085
McFadden, G. B. *see* **Ali, Mohamed E.**
Pfister, Gerd *see* **Langenberg, J. et al.**
Rogachevskii, Igor *see* **Elperin, Tov et al.**, 2005k:76047
Rossi, Maurice *see* **Delbende, Ivan**, 2005k:76046
Rousset, Frédéric Stability of large Ekman boundary layers in rotating fluids. (English summary) **2005c:76050**
Shapakidze, L. On the stability of Couette flow between two rotating cylinders in the presence of a transverse pressure gradient. (English and Georgian summaries) **2005i:76050**
Solonnikov, Vsevolod Alekseevich On the stability of axisymmetric equilibrium figures of a rotating viscous incompressible fluid. (Russian. Russian summary) **2005d:76016**
— On the stability of nonsymmetric equilibrium figures of a rotating viscous incompressible liquid. (English summary) **2005h:76032**
Türkyılmazoğlu, M. Lower branch modes of the compressible boundary layer flow due to a rotating-disk. (English summary) **2005h:76033**
Willis, Ashley P. *see* **Youd, Anthony J. et al.**
Youd, Anthony J. (*with* Willis, Ashley P.; Barenghi, Carlo F.) Non-reversing modulated Taylor-Couette flows. (English summary)

Items with secondary classifications in 76E07

Acrivos, Andreas (*with* Jin, Bo^1) Rimming flows within a rotating horizontal cylinder: asymptotic analysis of the thin-film lubrication equations and stability of their solutions. (English summary) **2005h:76024**
Albensoeder, Stefan *see* **Kuhlmann, Hendrik C.**, 2005m:76062
Alboussière, T. *see* **Moresco, P.**, 2005e:76046
Azerad, Pascal (*with* Bänsch, Eberhard) Quasi-stability of the primary flow in a cone and plate viscometer. (English summary) **2005d:35198**
Balanov, Zalman (*with* Krawcewicz, Wiesław; Rai, Bindhyachal) Taylor-Couette problem and related topics. (English summary) **2005a:37084**
Bänsch, Eberhard *see* **Azerad, Pascal**, 2005d:35198
Benilov, E. S. (*with* O'Brien, Stephen B. G.) Inertial instability of a liquid film inside a rotating horizontal cylinder. (English summary) **2005m:76087**
Birner, Michael (*with* Kaiser, Ralf) Stability balls in the rotating Bénard system. (English summary) **2005e:76040**
Bontoux, Patrick *see* **Czarny, Olivier et al.**, 2005a:76074
Busse, Friedrich H. On thermal convection in slowly rotating systems. (English summary) **2005e:76041**
Camassa, Roberto *see* **Choi, Wooyoung et al.**, 2005e:76042
Choi, Wooyoung (*with* Prasad, Dilip; Camassa, Roberto; Ecke, Robert E.) Traveling waves in rotating Rayleigh-Bénard convection. (English summary) **2005e:76042**

Chomaz, Jean-Marc *see* **Gallaire, F., 2005a:76024**
Coquart, Laure (*with* Sipp, Denis; Jacquin, Laurent) Mixing induced by Rayleigh-Taylor instability in a vortex. (English summary) **2005i:76040**
Cummings, Linda Jane *see* **Waters, S. L., 2005m:76070**
Czarny, Olivier (*with* Serre, Eric; Bontoux, Patrick; Lueptow, Richard M.) Interaction of wavy cylindrical Couette flow with endwalls. (English summary) **2005a:76074**
Daube, O. *see* **Nore, C. et al., 2005a:76162**
Duguet, Y. (*with* Scott, Julian F.; Le Penven, L.) Destabilization of inertial waves in a rotating cylinder. (English summary) (*see* **2005b:00020**)
Ecke, Robert E. *see* **Choi, Wooyoung et al., 2005e:76042**
Fabijonas, Bruce R. (*with* Holm, Darryl D.) Elliptic instability in the Lagrangian-averaged Euler-Boussinesq-α equations. (English summary) **2005m:76105**
Fernandez-Feria, R. *see* **Sanmiguel-Rojas, E.**
Galdi, Giovanni P. Steady flow of a Navier-Stokes fluid around a rotating obstacle. (English summary) **2005c:76030**
Gallaire, F. (*with* Chomaz, Jean-Marc) Instability mechanisms in swirling flows. (English summary) **2005a:76024**
Gañán-Calvo, A. M. (*with* Montanero, J. M.) A note on the small oscillation regimes of rotating liquid bridges: transition from surface to internal wave modes. (English summary) **2005h:76083**
Grenier, Emmanuel Boundary layers. **2005j:76036**
Hayat, Tasawar Oscillatory solution in rotating flow of a Johnson-Segalman fluid. (English summary) **2005k:76009**
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Krawcewicz, Wiesław *see* **Balanov, Zalman et al., 2005a:37084**
Kuhlmann, Hendrik C. (*with* Albensoeder, Stefan) Strained vortices in driven cavities. (English summary) **2005m:76062**
Le Penven, L. *see* **Duguet, Y. et al., (2005b:00020)**
Liu, Yue[1] (*with* Varlamov, Vladimir) Stability of solitary waves and weak rotation limit for the Ostrovsky equation. (English summary) **2005f:76022**
Lueptow, Richard M. *see* **Czarny, Olivier et al., 2005a:76074**
Martin Witkowski, L. *see* **Walker, John S., 2005b:76065**
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Montanero, J. M. *see* **Gañán-Calvo, A. M., 2005h:76083**
Moresco, P. (*with* Alboussière, T.) Stability of Bödewadt-Hartmann layers. (English summary) **2005e:76046**
Murthy, K. N. Venkatasiva (*with* Reddy, K. Jayarami) Steady flow generated by the differential rotation of a porous disk of finite thickness. (English summary) **2005i:76118**
Naumenko, Yu. V. The regime hysteresis of viscous flow with free surface in rotating horizontal cylinder. (English summary) **2005m:76048**
Nore, C. (*with* Tuckerman, L. S.; Daube, O.; Xin, Shihe) The 1 : 2 mode interaction in exactly counter-rotating von Kármán swirling flow. (English summary) **2005a:76162**
O'Brien, Stephen B. G. *see* **Benilov, E. S., 2005m:76087**
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Prasad, Dilip *see* **Choi, Wooyoung et al., 2005e:76042**
Rai, Bindhyachal *see* **Balanov, Zalman et al., 2005a:37084**
Reddy, K. Jayarami *see* **Murthy, K. N. Venkatasiva, 2005i:76118**
Sanmiguel-Rojas, E. (*with* Fernandez-Feria, R.) Nonlinear waves in the pressure driven flow in a finite rotating pipe. (English summary)
Scott, Julian F. *see* **Duguet, Y. et al., (2005b:00020)**
Serre, Eric *see* **Czarny, Olivier et al., 2005a:76074**
Shtern, Vladimir (*with* Mi, Jianchun) Hysteresis and precession of a swirling jet normal to a wall. (English summary) **2005f:76036**
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Tuckerman, L. S. *see* **Nore, C. et al., 2005a:76162**
Türkyılmazoğlu, M. (*with* Uygun, N.) Compressible modes of the rotating-disk boundary-layer flow leading to absolute instability. (English summary) **2005m:76153**
Uygun, N. *see* **Türkyılmazoğlu, M., 2005m:76153**
Varlamov, Vladimir *see* **Liu, Yue[1], 2005f:76022**
Walker, John S. (*with* Martin Witkowski, L.) Linear stability analysis for a rotating cylinder with a rotating magnetic field. (English summary) **2005b:76065**
Waters, S. L. (*with* Cummings, Linda Jane) Coriolis effects in a rotating Hele-Shaw cell. (English summary) **2005m:76070**
Xin, Shihe *see* **Nore, C. et al., 2005a:76162**

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Barrero, Antonio *see* **Herrada, Miguel Angel, 2005f:76046**
Belan, Marco *see* **Tordella, Daniela, 2005j:76039**
Burde, Georgy I. (*with* Zhalīĭ, O. Yu.) Separable non-parallel and unsteady flow stability problems. (English summary) **2005b:76057**
Chomaz, Jean-Marc Global instabilities in spatially developing flows: non-normality and nonlinearity. (English summary) **2005i:76051**
Herrada, Miguel Angel (*with* Barrero, Antonio) Nonparallel linear stability analysis of unconfined vortices. (English summary) **2005f:76046**
Shvydkoy, Roman (*with* Vishik, Misha) On spectrum of the linearized 3D Euler equation. (English summary) **2005m:76086**
Tordella, Daniela (*with* Belan, Marco) On the domain of validity of the near-parallel combined stability analysis for the 2D intermediate and far bluff body wake. (English summary) **2005j:76039**
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Albensoeder, Stefan *see* **Kuhlmann, Hendrik C., 2005m:76062**
Barrero, Antonio *see* **Herrada, Miguel Angel et al., 2005c:76051**
Boatto, Stefanella (*with* Cabral, Hildeberto E.) Nonlinear stability of a latitudinal ring of point-vortices on a nonrotating sphere. (English summary) **2005c:76022**
Cabral, Hildeberto E. *see* **Boatto, Stefanella, 2005c:76022**
Herrada, Miguel Angel (*with* Pérez-Saborid, M.; Barrero, Antonio) Nonparallel local spatial stability analysis of pipe entrance swirling flows. (English summary) **2005c:76051**
Kuhlmann, Hendrik C. (*with* Albensoeder, Stefan) Strained vortices in driven cavities. (English summary) **2005m:76062**
Mi, Jianchun *see* **Shtern, Vladimir, 2005f:76036**
Pérez-Saborid, M. *see* **Herrada, Miguel Angel et al., 2005c:76051**
Preston, Stephen C. For ideal fluids, Eulerian and Lagrangian instabilities are equivalent. **2005f:37165**
Sakajo, Takashi Transition of global dynamics of a polygonal vortex ring on a sphere with pole vortices. (English summary) **2005i:76028**
Shtern, Vladimir (*with* Mi, Jianchun) Hysteresis and precession of a swirling jet normal to a wall. (English summary) **2005f:76036**
Türkyılmazoğlu, M. Lower branch modes of the compressible boundary layer flow due to a rotating-disk. (English summary) **2005h:76033**

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Barrero, Antonio *see* **Herrada, Miguel Angel et al., 2005c:76051**
Brevdo, Leonid Linear stability theory for fronts with algebraically decaying tails. (English summary) **2005k:76048**
Fujimoto, Koichi (*with* Kaneko, Kunihiko) Convective instability with time scale translation of the transmitted fluctuation. (English summary) **2005e:76045**
Herrada, Miguel Angel (*with* Pérez-Saborid, M.; Barrero, Antonio) Nonparallel local spatial stability analysis of pipe entrance swirling flows. (English summary) **2005c:76051**
Kaneko, Kunihiko *see* **Fujimoto, Koichi, 2005e:76045**
Karlin, V. Estimation of the linear transient growth of perturbations of cellular flames. (English summary) **2005b:76058**
Pérez-Saborid, M. *see* **Herrada, Miguel Angel et al., 2005c:76051**
Ramazanov, M. M. Convective stability of a fluid in two hydrodynamically connected vertical faults. (Russian. Russian summary)

Items with secondary classifications in 76E15

Azuma, Akira (*with* Okamoto, Masato) Theoretical study on two-dimensional aerodynamic characteristics of unsteady wings. (English summary)
Dalziel, S. B. *see* **Patterson, M. D. et al., 2005k:86010**
Kuptsov, P. V. Rigid transition to the stationary structure and imposed convective instability in a reaction-diffusion system with flow. (English summary) **2005g:76054**
Nikiforakis, N. *see* **Patterson, M. D. et al., 2005k:86010**
Okamoto, Masato *see* **Azuma, Akira**
Patterson, M. D. (*with* Simpson, John E.; Dalziel, S. B.; Nikiforakis, N.) Numerical modelling of two-dimensional and axisymmetric gravity currents. (English summary) **2005k:86010**
Ruderman, Michael (*with* Simpson, D.) Absolute and convective instabilities of parallel propagating circularly polarized Alfvén waves: decay instability. (English summary) **2005f:76115**
Sandstede, Björn (*with* Scheel, Arnd) Basin boundaries and bifurcations near convective instabilities: a case study. (English summary) **2005k:35228**
Scheel, Arnd *see* **Sandstede, Björn, 2005k:35228**
Sheintuch, Moshe (*with* Smagina, Elena M.) Stabilizing the absolutely or convectively unstable homogeneous solutions of reaction-convection-diffusion systems. (English summary) **2005j:35127**
Sheĭpak, I. A. *see* **Vladimirov, A. A., 2005k:47093**
Simpson, D. *see* **Ruderman, Michael, 2005f:76115**
Simpson, John E. *see* **Patterson, M. D. et al., 2005k:86010**
Smagina, Elena M. *see* **Sheintuch, Moshe, 2005j:35127**
Türkyılmazoğlu, M. (*with* Uygun, N.) Compressible modes of the rotating-disk boundary-layer flow leading to absolute instability. (English summary) **2005m:76153**
Uygun, N. *see* **Türkyılmazoğlu, M., 2005m:76153**
Vladimirov, A. A. (*with* Sheĭpak, I. A.) Spectral properties of an operator matrix. (Russian. Russian summary) **2005k:47093**

76E17 Interfacial stability and instability

Anuchina, N. N. (*with* Volkov, V. I.; Gordeychuk, V. A.; Es′kov, N. S.; Ilyutina, O. S.; Kozyrev, O. M.) Numerical simulations of Rayleigh-Taylor and Richtmyer-Meshkov instability using MAH-3 code. (English summary)
Balakrishnan, Uma (*with* Usha, R.) Interfacial phase change effects on the stability characteristics of thin viscoelastic liquid film down a vertical wall. (English summary) **2005b:76059**
Benilov, E. S. (*with* O'Brien, Stephen B. G.) Inertial instability of a liquid film inside a rotating horizontal cylinder. (English summary) **2005m:76087**
Blyth, M. G. (*with* Pozrikidis, C.) Effect of inertia on the Marangoni instability of two-layer channel flow. II. Normal-mode analysis. (English summary) **2005h:76035**
Diez, Javier Alberto *see* **Kondic, Lou, 2005b:76060**
Es′kov, N. S. *see* **Anuchina, N. N. et al.**
Gordeychuk, V. A. *see* **Anuchina, N. N. et al.**
Gottlieb, O. (*with* Oron, Alexander) Stability and bifurcations of parametrically excited thin liquid films. (English summary) **2005i:76052**
Il′ichev, A. T. (*with* Tsypkin, G. G.) Criteria of hydrodynamic instability of a phase interface in hydrothermal systems. (Russian. Russian summary) **2005i:76053**
Ilyutina, O. S. *see* **Anuchina, N. N. et al.**
Jacobs, Jeffrey W. *see* **Likhachev, Oleg A., 2005k:76051**
Kamotskiĭ, V. V. (*with* Lebeau, Gilles) On 2D Rayleigh-Taylor instabilities. **2005k:76049**
Kas-Danouche, S. (*with* Papageorgiou, Demetrios T.; Siegel, Michael) A mathematical model for core-annular flows with surfactants. (English and Spanish summaries) **2005j:76040**
Knobloch, Edgar *see* **Thiele, Uwe, 2005g:76053**

Kondic, Lou (*with* Diez, Javier Alberto) Instabilities in the flow of thin films on heterogeneous surfaces. (English summary) **2005b:76060**
Kozyrev, O. M. *see* **Anuchina, N. N. et al.**
Lebeau, Gilles *see* **Kamotskiĭ, V. V., 2005k:76049**
Lee, Doo-Sung Nonlinear Kelvin-Helmholtz instability of fluid layers with mass and heat transfer. (English summary) **2005k:76050**
Li, Ding[1] *see* **Zhang, Wenlu et al., 2005k:76053**
Likhachev, Oleg A. (*with* Jacobs, Jeffrey W.) A vortex model for Richtmyer-Meshkov instability accounting for finite Atwood number. (English summary) **2005k:76051**
Luchini, Paolo Is a plane liquid curtain algebraically absolutely unstable? (English summary) **2005b:76061**
Mikaelian, Karnig O. Richtmyer-Meshkov instability of arbitrary shapes. (English summary) **2005k:76052**
O'Brien, Stephen B. G. *see* **Benilov, E. S., 2005m:76087**
Oron, Alexander *see* **Gottlieb, O., 2005i:76052**
Papageorgiou, Demetrios T. (*with* Petropoulos, Peter G.) Generation of interfacial instabilities in charged electrified viscous liquid films. (English summary) **2005i:76054**
— *see also* **Kas-Danouche, S. et al., 2005j:76040**
Petropoulos, Peter G. *see* **Papageorgiou, Demetrios T., 2005i:76054**
Pozrikidis, C. Effect of inertia on the Marangoni instability of two-layer channel flow. I. Numerical simulations. (English summary) **2005h:76034**
— *see also* **Blyth, M. G., 2005h:76035**
Qin, Cheng Sen (*with* Wang, Pei[5]; Zhang, Feng Guo) Rayleigh-Taylor and Kelvin-Helmholtz instability of a compressible fluid. (Chinese. English and Chinese summaries)
Rosso, Riccardo (*with* Virga, Epifanio G.) Sign of line tension in liquid bridge stability. (English summary) **2005m:76088**
Siegel, Michael *see* **Kas-Danouche, S. et al., 2005j:76040**
Sohn, Sung-Ik Analytic solutions of unstable interfaces for all density ratios in axisymmetric flows. (English summary) **2005j:76041**
Thiele, Uwe (*with* Knobloch, Edgar) Thin liquid films on a slightly inclined heated plate. (English summary) **2005g:76053**
Tsypkin, G. G. *see* **Il'ichev, A. T., 2005i:76053**
Usha, R. *see* **Balakrishnan, Uma, 2005b:76059**
Virga, Epifanio G. *see* **Rosso, Riccardo, 2005m:76088**
Volkov, V. I. *see* **Anuchina, N. N. et al.**
Wang, Pei[5] *see* **Qin, Cheng Sen et al.**
Wu, Zhengwei *see* **Zhang, Wenlu et al., 2005k:76053**
Zhang, Feng Guo *see* **Qin, Cheng Sen et al.**
Zhang, Wenlu (*with* Wu, Zhengwei; Li, Ding[1]) Effect of shear flow and magnetic field on the Rayleigh-Taylor instability. (English summary) **2005k:76053**

Items with secondary classifications in 76E17

Alvarez-Lacalle, E. (*with* Ortín, J.; Casademunt, Jaume) Low viscosity contrast fingering in a rotating Hele-Shaw cell. (English summary) **2005a:76064**
Amaouche, Mustapha (*with* Mehidi, Nadia; Amatousse, Nawel) An accurate modeling of thin film flows down an incline for inertia dominated regimes. (English summary) **2005f:76009**
Amatousse, Nawel *see* **Amaouche, Mustapha et al., 2005f:76009**
Ambrose, David M. Well-posedness of vortex sheets with surface tension. (English summary) **2005g:76006**
Argyriadi, K. (*with* Serifi, K.; Bontozoglou, V.) Nonlinear dynamics of inclined films under low-frequency forcing. (English summary) **2005b:76014**
Benzoni-Gavage, S. (*with* Freistühler, H.) Effects of surface tension on the stability of dynamical liquid-vapor interfaces. (English summary) **2005k:35310**
Bessonov, N. (*with* Pojman, J. A.; Vol'pert, Vit. A.) Modelling of miscible liquids and microgravity experiments. (English summary) **2005g:76046**
Bestehorn, Michael *see* **Merkt, D. et al., 2005m:76018**
Bhandar, Anand S. (*with* Vogel, Michael J.; Steen, Paul H.) Energy landscapes and bistability to finite-amplitude disturbances for the capillary bridge. (English summary) **2005b:76050**
Boek, Edo S. *see* **Grosfils, Patrick et al., 2005c:76039**
Boniforti, M. A. *see* **La Rocca, Michele et al., 2005e:76018**
Bontozoglou, V. *see* **Argyriadi, K. et al., 2005b:76014**
Boon, Jean Pierre *see* **Grosfils, Patrick et al., 2005c:76039**
Buffoni, Boris Conditional energetic stability of gravity solitary waves in the presence of weak surface tension. (English summary) **2005k:76014**
Carey, Graham F. *see* **Wang, Xiaowen, 2005m:76119** *and* **2005m:76120**
Casademunt, Jaume Viscous fingering as a paradigm of interfacial pattern formation: recent results and new challenges. (English summary) **2005g:76042**
— *see also* **Alvarez-Lacalle, E. et al., 2005a:76064**
Chin, Jonathan *see* **Grosfils, Patrick et al., 2005c:76039**
Clarisse, Jean-Marie (*with* Jaouen, Stéphane; Raviart, Pierre-Arnaud) A Godunov-type method in Lagrangian coordinates for computing linearly-perturbed planar-symmetric flows of gas dynamics. (English summary) **2005a:76109**
Coulombel, Jean-François (*with* Secchi, Paolo) The stability of compressible vortex sheets in two space dimensions. (English summary) **2005f:35256**
Craster, Richard V. *see* **Edmonstone, B. D. et al., 2005i:76009**
Darhuber, Anton A. (*with* Troian, Sandra M.) Principles of microfluidic actuation by modulation of surface stresses. (English summary) (*see* **2005b:76002**)
Demyanov, A. Yu. (*with* Dinariev, O. Yu.) Modeling of multicomponent multiphase mixture flows on the basis of the density-functional method. (English summary) **2005m:76183**
Dinariev, O. Yu. *see* **Demyanov, A. Yu., 2005m:76183**
Edmonstone, B. D. (*with* Matar, Omar K.; Craster, Richard V.) Flow of surfactant-laden thin films down an inclined plane. (English summary) **2005i:76009**
Elhefnawy, Abdel Raouf F. (*with* Zakaria, K.; Sirwah, M. A.) Bifurcations of magnetized surface waves between two immiscible fluids inside a vertical cylindrical container. (English summary) **2005h:76037**
Flitton, J. C. (*with* King, John Robert) Surface-tension-driven dewetting of Newtonian and power-law fluids. (English summary) **2005h:76009**
Freistühler, H. *see* **Benzoni-Gavage, S., 2005k:35310**
Funada, T. *see* **Wang, Jing[10] et al., 2005m:76073**
Gañán-Calvo, A. M. (*with* Montanero, J. M.) A note on the small oscillation regimes of rotating liquid bridges: transition from surface to internal wave modes. (English summary) **2005h:76083**
Grosfils, Patrick (*with* Boon, Jean Pierre; Chin, Jonathan; Boek, Edo S.) Structural and dynamical characterization of Hele-Shaw viscous fingering. (English summary) **2005c:76039**
Gunawan, A. Y. (*with* Molenaar, Jaap; van de Ven, Alphons A. F.) Break-up of a set of liquid threads under influence of surface tension. (English summary) **2005c:76041**
Heil, Matthias *see* **White, Joseph P., 2005k:74031**
Hermann, Marcus A Eulerian level set/vortex sheet method for two-phase interface dynamics. (English summary) **2005i:76082**
Hinch, E. J. (*with* Kelmanson, M. A.; Metcalfe, Paul D.) Shock-like free-surface perturbations in low-surface-tension, viscous, thin-film flow exterior to a rotating cylinder. (English summary) **2005f:76010**
— (*with* Plouraboué, F.) Kelvin-Helmholtz instability in a Hele-Shaw cell: large effect from the small region near the meniscus. (English summary) **2005m:76068**
Hooper, Alison P. *see* **Malik, Satish V., 2005i:76046**
Il'ichev, A. T. (*with* Tsypkin, G. G.) Transition to instability of the interface in geothermal systems. (English summary) **2005m:86003**
Jaouen, Stéphane *see* **Clarisse, Jean-Marie et al., 2005a:76109**
Joseph, D. D. *see* **Wang, Jing[10] et al., 2005m:76073**
Kalliadasis, Serafim *see* **Trevelyan, Philip M. J., 2005h:76012**
Karlin, V. Estimation of the linear transient growth of perturbations of cellular flames. (English summary) **2005b:76058**
Kelmanson, M. A. *see* **Hinch, E. J. et al., 2005f:76010**
Kim, Junseok A continuous surface tension force formulation for diffuse-interface models. (English summary) **2005j:76092**
King, John Robert *see* **Flitton, J. C., 2005h:76009**
Kumar, Satish[2] *see* **Matar, Omar K., 2005g:76004**
La Rocca, Michele (*with* Sciortino, G.; Boniforti, M. A.) Gravity-capillary waves in layered fluid. (English and Ukrainian summaries) **2005e:76018**
Malik, Satish V. (*with* Hooper, Alison P.) Linear stability and energy growth of viscosity stratified flows. (English summary) **2005i:76046**
Matar, Omar K. (*with* Kumar, Satish[2]) Rupture of a surfactant-covered thin liquid film on a flexible wall. (English summary) **2005g:76004**
— *see also* **Edmonstone, B. D. et al., 2005i:76009**
Mehidi, Nadia *see* **Amaouche, Mustapha et al., 2005f:76009**
Merkt, D. (*with* Pototsky, A.; Bestehorn, Michael; Thiele, Uwe) Long-wave theory of bounded two-layer films with a free liquid-liquid interface: short- and long-time evolution. (English summary) **2005m:76018**
Metcalfe, Paul D. *see* **Hinch, E. J. et al., 2005f:76010**
Molenaar, Jaap *see* **Gunawan, A. Y. et al., 2005c:76041**
Montanero, J. M. *see* **Gañán-Calvo, A. M., 2005h:76083**
Nitsche, Monika (*with* Steen, Paul H.) Numerical simulations of inviscid capillary pinchoff. (English summary)
Ortín, J. *see* **Alvarez-Lacalle, E. et al., 2005a:76064**
Paşa, Gelu The control of Saffman-Taylor instability. **2005g:76044**
Plouraboué, F. *see* **Hinch, E. J., 2005m:76068**
Pojman, J. A. *see* **Bessonov, N. et al., 2005g:76046**
Pototsky, A. *see* **Merkt, D. et al., 2005m:76018**
Raviart, Pierre-Arnaud *see* **Clarisse, Jean-Marie et al., 2005a:76109**
Sciortino, G. *see* **La Rocca, Michele et al., 2005e:76018**
Secchi, Paolo *see* **Coulombel, Jean-François, 2005f:35256**
Serifi, K. *see* **Argyriadi, K. et al., 2005b:76014**
Shapiro, Evgeniy (*with* Timoshin, Sergei) On the patterns of interaction between shear and interfacial modes in plane air-water Poiseuille flow. (English summary) **2005m:76082**
Shkadov, V. Ya. (*with* Sisoev, G. M.) Waves induced by instability in falling films of finite thickness. (English summary) **2005e:76009**
— (*with* Velarde, Manuel G.; Shkadova, V. P.) Falling films and the Marangoni effect. (English summary) **2005e:76010**
Shkadova, V. P. *see* **Shkadov, V. Ya. et al., 2005e:76010**
Sirwah, M. A. *see* **Elhefnawy, Abdel Raouf F. et al., 2005h:76037**
Sisoev, G. M. *see* **Shkadov, V. Ya., 2005e:76009**
Steen, Paul H. *see* **Bhandar, Anand S. et al., 2005b:76050** *and* **Nitsche, Monika**
Thiele, Uwe *see* **Merkt, D. et al., 2005m:76018**
Timoshin, Sergei *see* **Shapiro, Evgeniy, 2005m:76082**
Trevelyan, Philip M. J. (*with* Kalliadasis, Serafim) Wave dynamics on a thin-liquid film falling down a heated wall. (English summary) **2005h:76012**
Troian, Sandra M. *see* **Darhuber, Anton A., (2005h:76002)**
Tsypkin, G. G. *see* **Il'ichev, A. T., 2005m:86003**
Uecker, Hannes Self-similar decay of localized perturbations in the integral boundary layer equation. (English summary) **2005g:35164**
Velarde, Manuel G. *see* **Shkadov, V. Ya. et al., 2005e:76010**
van de Ven, Alphons A. F. *see* **Gunawan, A. Y. et al., 2005c:76041**
Vogel, Michael J. *see* **Bhandar, Anand S. et al., 2005b:76050**
Vol'pert, Vit. A. *see* **Bessonov, N. et al., 2005g:76046**
Wang, Jing[10] (*with* Joseph, D. D.; Funada, T.) Viscous contributions to the pressure for potential flow analysis of capillary instability of two viscous fluids. (English summary) **2005m:76073**
Wang, Xiaowen (*with* Carey, Graham F.) On Marangoni effects in a heated thin fluid layer with a monolayer surfactant. I. Model development and stability analysis. (English summary) **2005m:76119**
— (*with* Carey, Graham F.) On Marangoni effects in a heated fluid layer with a monolayer surfactant. II. Finite element formulation and numerical studies. (English summary) **2005m:76120**
White, Joseph P. (*with* Heil, Matthias) Three-dimensional instabilities of liquid-lined elastic tubes: a thin-film fluid-structure interaction model. (English summary) **2005k:74031**

Zakaria, K. *see* **Elhefnawy, Abdel Raouf F. et al., 2005h:76037**

76E19 Compressibility effects

Men'shov, Igor (*with* Nakamura, Yoshiaki) Instability of isolated compressible entropy-stratified vortices. (English summary) **2005k:76054**
Nakamura, Yoshiaki *see* **Men'shov, Igor, 2005k:76054**

76E20 Stability and instability of geophysical and astrophysical flows

Benilov, E. S. Stability of a two-layer quasigeostrophic vortex over axisymmetric localized topography. (English summary) **2005j:76042**
Boyd, John Philip *see* **Tan, Benkui, 2005a:76079**
Carton, Xavier J. *see* **Pavec, Marc et al., 2005m:76091**
Chen, Zhi-Min (*with* Price, W. G.) Bifurcating periodic solutions of the wind-driven circulation equations. (English summary) **2005m:76089**
Friedlander, Susan J. (*with* Shvydkoy, Roman) The unstable spectrum of the surface quasi-geostropic equation. (English summary) **2005m:76090**
Klaassen, G. P. *see* **Yau, K.-H. et al., 2005b:76062**
Menzaque, Fernando *see* **Milewski, Paul A. et al., 2005h:76036**
Milewski, Paul A. (*with* Tabak, Esteban G.; Turner, Cristina; Rosales, Rodolfo Rubén; Menzaque, Fernando) Nonlinear stability of two-layer flows. (English summary) **2005h:76036**
Muraki, David J. *see* **Plougonven, Riwal et al., 2005m:76092**
Pavec, Marc (*with* Carton, Xavier J.; Swaters, Gordon) Baroclinic instability of frontal geostrophic currents over a slope. (English summary) **2005m:76091**
Pérez-García, Ismael *see* **Skiba, Yuri N., 2005j:76043**
Plougonven, Riwal (*with* Muraki, David J.; Snyder, Christopher Martin) A baroclinic instability that couples balanced motions and gravity waves. (English summary) **2005m:76092**
Price, W. G. *see* **Chen, Zhi-Min, 2005m:76089**
Rosales, Rodolfo Rubén *see* **Milewski, Paul A. et al., 2005h:76036**
Shvydkoy, Roman *see* **Friedlander, Susan J., 2005m:76090**
Skiba, Yuri N. (*with* Pérez-García, Ismael) On the structure and growth rate of unstable modes to the Rossby-Haurwitz wave. (English summary) **2005j:76043**
Snyder, Christopher Martin *see* **Plougonven, Riwal et al., 2005m:76092**
Sonmor, L. J. *see* **Yau, K.-H. et al., 2005b:76062**
Swaters, Gordon *see* **Pavec, Marc et al., 2005m:76091**
Tabak, Esteban G. *see* **Milewski, Paul A. et al., 2005h:76036**
Tan, Benkui (*with* Boyd, John Philip) Stable and unstable evolution of modons perturbed by surface term, bottom friction, and bottom topography incorporating nonlinear Ekman pumping. (English summary) **2005a:76079**
Turner, Cristina *see* **Milewski, Paul A. et al., 2005h:76036**
Yau, K.-H. (*with* Klaassen, G. P.; Sonmor, L. J.) Principal instabilities of large amplitude inertio-gravity waves. (English summary) **2005b:76062**

Items with secondary classifications in 76E20

Akylas, T. R. *see* **Skopovi, Ivan, 2005a:76029**
Beyer, K. (*with* Günther, Matthias) Dynamical stability of compressible drops and stars. (English summary) **2005k:76115**
Carton, Xavier J. *see* **Pavec, Marc, 2005g:76040**
Churilov, S. M. On the stability of stratified shear flows with a monotonic velocity profile without inflection points. (Russian) **2005k:76042**
Coorevits, Patrice *see* **Fortin, Jérôme**
Desjardins, Benoît (*with* Dormy, Emmanuel; Grenier, Emmanuel) Boundary layer instability at the top of the Earth's outer core. (English summary) **2005b:86039**
Dormy, Emmanuel *see* **Morin, V., 2005a:76076** *and* **Desjardins, Benoît et al., 2005b:86039**
Esler, J. G. (*with* Polvani, L. M.) Kelvin-Helmholtz instability of potential vorticity layers: a route to mixing. (English summary) **2005b:86028**
Flierl, Glenn R. *see* **Poulin, F. J., 2005m:86011**
Fortin, Jérôme (*with* Coorevits, Patrice) Selecting contact particles in dynamics granular mechanics systems. (English summary)
Grasso, Lewis D. *see* **Nolan, David S., 2005f:86006**
Grenier, Emmanuel *see* **Desjardins, Benoît et al., 2005b:86039**
Günther, Matthias *see* **Beyer, K., 2005k:76115**
Horton, Claude Wendell, Jr. *see* **Wong, H. Vernon et al., 2005m:86022**
Il'ichev, A. T. (*with* Tsypkin, G. G.) Transition to instability of the interface in geothermal systems. (English summary) **2005m:86003**
LaCasce, J. H. (*with* Pedlosky, Joseph) The instability of Rossby basin modes and the oceanic eddy field. (English summary) **2005e:86003**
McWilliams, James C. (*with* Molemaker, M. Jeroen; Yavneh, Irad) Ageostrophic, anticyclonic instability of a geostrophic, barotropic boundary current. (English summary) **2005e:86004**
Mitas, Christos M. (*with* Robinson, Walter A.) Atmospheric stability in a generalized barotropic model. (English summary) **2005h:86014**
Molemaker, M. Jeroen *see* **McWilliams, James C. et al., 2005e:86004**
Morin, V. (*with* Dormy, Emmanuel) Time dependent β-convection in rapidly rotating spherical shells. (English summary) **2005a:76076**
Nolan, David S. (*with* Grasso, Lewis D.) Nonhydrostatic, three-dimensional perturbations to balanced, hurricane-like vortices. II. Symmetric response and nonlinear simulations. (English summary) **2005f:86006**
Pavec, Marc (*with* Carton, Xavier J.) Parametric instability of a two-layer wall jet. (English summary) **2005g:76040**
Pedlosky, Joseph *see* **LaCasce, J. H., 2005e:86003**
Polvani, L. M. *see* **Esler, J. G., 2005b:86028**
Poulin, F. J. (*with* Flierl, Glenn R.) The influence of topography on the stability of jets. (English summary) **2005m:86011**
Pratt, Jane *see* **Wong, H. Vernon et al., 2005m:86022**
Robinson, Walter A. *see* **Mitas, Christos M., 2005h:86014**
Rousset, Frédéric Stability of large Ekman boundary layers in rotating fluids. (English summary) **2005c:76050**
Skopovi, Ivan (*with* Akylas, T. R.) Transient nonlinear disturbances and shelves in a stratified fluid layer. (English summary) **2005a:76029**
Tsypkin, G. G. *see* **Il'ichev, A. T., 2005m:86003**
Van Dam, J. W. *see* **Wong, H. Vernon et al., 2005m:86022**
Wong, H. Vernon (*with* Xu, Baiyu; Horton, Claude Wendell, Jr.; Pratt, Jane; Van Dam, J. W.) Nonlinear evolution of the firehose instability in a magnetic dipole geotail geometry. (English summary) **2005m:86022**
Xu, Baiyu *see* **Wong, H. Vernon et al., 2005m:86022**
Yavneh, Irad *see* **McWilliams, James C. et al., 2005e:86004**

76E25 Stability and instability of magnetohydrodynamic and electrohydrodynamic flows

Alboussière, T. *see* **Moresco, P., 2005e:76046**
Belova, Elena V. (*with* Davidson, Ronald C.; Ji, Hantao; Yamada, Masaaki[1]) Kinetic effects on the stability properties of field-reversed configurations. II. Nonlinear evolution. (English summary) **2005a:76080**
Bichir, Cătălin Liviu (*with* Georgescu, Adelina; Palese, Lidia) A nonlinear hydrodynamic stability criterion derived by a generalized energy method. (English summary) **2005m:76093**
Callebaut, D. K. *see* **Khater, A. H. et al., 2005h:76039**
Davidson, Ronald C. *see* **Belova, Elena V. et al., 2005a:76080**
El-Bassiouny, A. F. *see* **Elhefnawy, Abdel Raouf F.**
Elcoot, Abd Elmonem Khalil *see* **Elhefnawy, Abdel Raouf F. et al., 2005a:76081**
Elhefnawy, Abdel Raouf F. (*with* Zakaria, K.; Sirwah, M. A.) Bifurcations of magnetized surface waves between two immiscible fluids inside a vertical cylindrical container. (English summary) **2005h:76037**
— (*with* Moatimid, Galal M.; Elcoot, Abd Elmonem Khalil) Nonlinear electrohydrodynamic instability of a finitely conducting cylinder: effect of interfacial surface charges. (English summary) **2005a:76081**
— (*with* El-Bassiouny, A. F.) Nonlinear stability and chaos in electrohydrodynamics. (English summary)
Gañán-Calvo, A. M. *see* **López-Herrera, J. M. et al., 2005k:76055**
Georgescu, Adelina *see* **Palese, Lidia, 2005c:76052** *and* **Bichir, Cătălin Liviu et al., 2005m:76093**
Hameiri, Eliezer (*with* Torasso, R.) Linear stability of static equilibrium states in the Hall-magnetohydrodynamics model. (English summary) **2005h:76038**
— *see also* **Torasso, R., 2005j:76044**
Hassam, A. B. *see* **Huang, Yi-Min[1], 2005a:76082** *and* **2005b:76064**
Herron, Isom H. Onset of instability in hydromagnetic Couette flow. (English summary) **2005b:76063**
— Erratum: "Onset of instability in hydromagnetic Couette flow" [Anal. Appl. (Singap.) 2 (2004), no. 2, 145–159; MR2053587 (2005b:76063)].
Huang, Yi-Min[1] (*with* Hassam, A. B.) Magnetohydrodynamic stability of centrifugally confined plasmas. (English summary) **2005a:76082**
— (*with* Hassam, A. B.) Resistive magnetohydrodynamic equilibrium and stability of a rotating plasma with particle sources. (English summary) **2005b:76064**
Ji, Hantao *see* **Belova, Elena V. et al., 2005a:76080**
Kandaswamy, P. *see* **Saravanan, S., 2005a:76085**
Khater, A. H. (*with* Moawad, S. M.; Callebaut, D. K.) Linear and nonlinear stability analysis for two-dimensional ideal magnetohydrodynamics with incompressible flows. (English summary) **2005h:76039**
Lange, Adrian *see* **Mekhonoshin, V. V., 2005a:76083**
Liverts, Edward *see* **Shtemler, Yuri M. et al., 2005h:76041**
López-Herrera, J. M. (*with* Riesco-Chueca, P.; Gañán-Calvo, A. M.) Linear stability analysis of axisymmetric perturbations in imperfectly conducting liquid jets. (English summary) **2005k:76055**
Martin Witkowski, L. *see* **Walker, John S., 2005b:76065**
Mekhonoshin, V. V. (*with* Lange, Adrian) Chain-induced effects in the Faraday instability on ferrofluids in a horizontal magnetic field. (English summary) **2005a:76083**
Moatimid, Galal M. *see* **Elhefnawy, Abdel Raouf F. et al., 2005a:76081**
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Mond, Michael *see* **Shtemler, Yuri M. et al., 2005h:76041**
Moresco, P. (*with* Alboussière, T.) Stability of Bödewadt-Hartmann layers. (English summary) **2005e:76046**
Oliveri, Francesco *see* **Speciale, Maria Paola, (2005c:00016)**
Othman, Mohamed I. A. Electrohydrodynamic instability of a rotating layer of a viscoelastic fluid heated from below. (English summary) **2005a:76084**
Palese, Lidia (*with* Georgescu, Adelina) Lyapunov method applied to the anisotropic Bénard problem. (English summary) **2005c:76052**
— *see also* **Bichir, Cătălin Liviu et al., 2005m:76093**
Radwan, Ahmed E. Hydromagnetic stability of gravitational streaming coaxial cylinders with double perturbed interfaces. (English summary) **2005h:76040**
— Instability of a compressible annular magnetized fluid. (English summary) **2005i:76055**
Riesco-Chueca, P. *see* **López-Herrera, J. M. et al., 2005k:76055**
Saravanan, S. (*with* Kandaswamy, P.) Hydromagnetic stability of convective flow of variable viscosity fluids generated by internal heat sources. (English summary) **2005a:76085**
Shtemler, Yuri M. (*with* Mond, Michael; Liverts, Edward) The Hall instability of unsteady inhomogeneous axially symmetric magnetized plasmas. (English summary) **2005h:76041**
Shtern, Vladimir Instability versus collapse in a flow driven by the radial electric current (English summary) **2005a:76086**
Sirwah, M. A. *see* **Elhefnawy, Abdel Raouf F. et al., 2005h:76037**
Speciale, Maria Paola (*with* Oliveri, Francesco) Linear stability of some exact solutions to ideal magneto-gas-dynamics equations. (English summary) (*see* **2005c:00016**)
Torasso, R. (*with* Hameiri, Eliezer) Ballooning mode stability in the Hall-magnetohydrodynamics model. (English summary) **2005j:76044**
— *see also* **Hameiri, Eliezer, 2005h:76038**

Walker, John S. (*with* Martin Witkowski, L.) Linear stability analysis for a rotating cylinder with a rotating magnetic field. (English summary) **2005b:76065**
Yamada, Masaaki[1] *see* **Belova, Elena V. et al., 2005a:76080**
Zakaria, K. *see* **Elhefnawy, Abdel Raouf F. et al., 2005h:76037**

Items with secondary classifications in 76E25

Airiau, Christophe (*with* Castets, Mélanie) On the amplification of small disturbances in a channel flow with a normal magnetic field. (English summary) **2005b:76054**
Aydemir, A. Y. Magnetohydrodynamic equilibrium and stability of rotating plasmas in a mirror geometry. (English summary) **2005i:76119**
Batra, K. *see* **Sharma, R. P. et al., 2005i:76132**
Berk, H. L. *see* **Eremin, D. Yu., 2005g:76133**
Berroukeche, M. (*with* Boussari, A.; Maschke, E. K.; Saramito, B.) Hopf bifurcation for tearing instability in magnetohydrodynamics, theory and numerical results. (English summary) **2005b:76135**
Bogoyavlenskii, Oleg I. *see* **Cheviakov, Alexei F., 2005e:76086**
Boussari, A. *see* **Berroukeche, M. et al., 2005b:76135**
Castets, Mélanie *see* **Airiau, Christophe, 2005b:76054**
Cheviakov, Alexei F. (*with* Bogoyavlenskii, Oleg I.) Exact anisotropic MHD equilibria. (English summary) **2005e:76086**
D'Ippolito, D. A. (*with* Myra, J. R.; Russell, David A.; Yu, G. Q.) Rotational stability of plasma blobs. (English summary)
Elcoot, Abd Elmonem Khalil (*with* Moatimid, Galal M.) Nonlinear instability of finitely conducting cylindrical flows through porous media. (English summary) **2005f:76097**
Eremin, D. Yu. (*with* Berk, H. L.) Instability of phase space structures. (English summary) **2005g:76133**
Fautrelle, Y. (*with* Sneyd, A. D.) Surface waves created by low-frequency magnetic fields. (English summary) **2005g:76130**
Fontelos, Marco A. (*with* Friedman, Avner) Symmetry-breaking bifurcations of charged drops. (English summary) **2005b:76140**
Friedman, Avner *see* **Fontelos, Marco A., 2005b:76140**
Georgescu, Adelina *see* **Palese, Lidia, 2005b:76056**
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Hughes, David W. *see* **Kim, Eun-Jin et al., 2005b:76142**
Ilin, K. I. (*with* Vladīmīrov, V. A.) Energy principle for magnetohydrodynamic flows and Bogoyavlenskij's transformation. (English summary) **2005g:76131**
Jovanović, D. (*with* Shukla, Padma Kant) Linear theory for fast collisionless magnetic reconnection in the lower-hybrid frequency range. (English summary) **2005m:76199**
Julien, Keith (*with* Knobloch, Edgar; Tobias, Steve) Highly supercritical convection in strong magnetic fields. **2005i:76122**
Kim, Eun-Jin (*with* Hughes, David W.; Soward, Andrew M.) A nonlinear dynamo driven by rapidly rotating convection. (English summary) **2005b:76142**
Knobloch, Edgar *see* **Julien, Keith et al., 2005i:76122**
Kondoh, Koji *see* **Ugai, M. et al., 2005m:76204**
Krasheninnikov, S. I. *see* **Smolyakov, A. I. et al., 2005m:76202**
Mackey, Dana (*with* Plantié, L.; Turner, M. M.) Instabilities and pattern formation in low temperature plasmas. (English summary)
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Moatimid, Galal M. *see* **Elcoot, Abd Elmonem Khalil, 2005f:76097**
Myra, J. R. *see* **D'Ippolito, D. A. et al.**
Palese, Lidia (*with* Georgescu, Adelina) On instability of the magnetic Bénard problem with Hall and ion-slip effects. (English summary) **2005b:76056**
Papageorgiou, Demetrios T. (*with* Petropoulos, Peter G.) Generation of interfacial instabilities in charged electrified viscous liquid films. (English summary) **2005i:76054**
Patsegon, N. F. (*with* Popova, L. N.) Wave structures in magnetic fluid. (English summary) **2005d:76045**
Petropoulos, Peter G. *see* **Papageorgiou, Demetrios T., 2005i:76054**
Plantié, L. *see* **Mackey, Dana et al.**
Popova, L. N. *see* **Patsegon, N. F., 2005d:76045**
Pratt, Jane *see* **Wong, H. Vernon et al., 2005m:86022**
Ricca, Renzo L. Inflexional disequilibrium of magnetic flux-tubes. (English summary) **2005m:76192**
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Russell, David A. *see* **D'Ippolito, D. A. et al.**
Saramito, B. *see* **Berroukeche, M. et al., 2005b:76135**
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Smolyakov, A. I. (*with* Krasheninnikov, S. I.; Tolstikhin, O. I.) Electromagnetic instability of an axially inhomogeneous plasma. (English summary) **2005m:76202**
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Tolstikhin, O. I. *see* **Smolyakov, A. I. et al., 2005m:76202**
Turner, M. M. *see* **Mackey, Dana et al.**
Ugai, M. (*with* Kondoh, Koji; Shimizu, Tohru) Spontaneous fast reconnection model in three dimensions. (English summary) **2005m:76204**
Van Dam, J. W. *see* **Wong, H. Vernon et al., 2005m:86022**
Verga, Alberto *see* **Sharma, R. P. et al., 2005i:76132**
Vladīmīrov, V. A. *see* **Ilin, K. I., 2005g:76131**
Wong, H. Vernon (*with* Xu, Baiyu; Horton, Claude Wendell, Jr.; Pratt, Jane; Van Dam, J. W.) Nonlinear evolution of the firehose instability in a magnetic dipole geotail geometry. (English summary) **2005m:86022**
Xu, Baiyu *see* **Wong, H. Vernon et al., 2005m:86022**
Yu, G. Q. *see* **D'Ippolito, D. A. et al.**

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Deng, Xue Ying *see* **Li, Guo Hui, 2005i:76057**
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Guidoboni, Giovanna (*with* Jin, Bum Ja) On the nonlinear stability of Marangoni-Bénard problem with free surface in the Boussinesq approximation. (English summary) **2005i:76056**
Huang, Yong Nian[2] *see* **Xu, Lanxi et al., 2005g:76055**
Jin, Bum Ja *see* **Guidoboni, Giovanna, 2005i:76056**
Kuptsov, P. V. Rigid transition to the stationary structure and imposed convective instability in a reaction-diffusion system with flow. (English summary) **2005g:76054**
Lai, Hsin-Yi (*with* Sung, Hung-Ming; Chen, Cha'o-Kuang) Nonlinear stability characterization of thin Newtonian film flows traveling down on a vertical moving plate. (English summary)
Li, Guo Hui (*with* Deng, Xue Ying) Stability of the crossflow pattern around a slender and influence of disturbance. (Chinese. English and Chinese summaries) **2005i:76057**
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Rudzick, O. *see* **Argentina, M. et al.**
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Velarde, Manuel G. *see* **Argentina, M. et al.**
von Wahl, Wolf *see* **Xu, Lanxi et al., 2005g:76055**
Walton, Andrew G. The stability of nonlinear neutral modes in Hagen-Poiseuille flow. (English summary) **2005h:76042**
Xu, Lanxi (*with* von Wahl, Wolf; Huang, Yong Nian[2]) A new approach to the nonlinear stability of a motionless heterogeneous fluid. (English summary) **2005g:76055**

Items with secondary classifications in 76E30

Aamo, Ole Morten (*with* Krstić, Miroslav) Global stabilization of a nonlinear Ginzburg-Landau model of vortex shedding. (English summary) **2005m:93119**
Acero, F. J. *see* **Montanero, J. M.**
Akylas, T. R. *see* **Skopovi, Ivan, 2005a:76029**
Allen, Thomas The evolution of free-disturbances in a two-dimensional nonlinear critical layer. (English summary) **2005f:76040**
— The evolution of free disturbances on an initially two-dimensional inflectional boundary-layer flow. (English summary) **2005a:76059**
Asakawa, Hidekazu *see* **Takeuchi, Shingo et al., (2005c:35004)**
Baskar, S. (*with* Prasad, Phoolan) Kinematical conservation laws applied to study geometrical shapes of a solitary wave. (English summary) **2005a:76017**
Batra, K. *see* **Sharma, R. P. et al., 2005i:76132**
Berres, Stefan (*with* Bürger, Raimund; Karlsen, Kenneth H.) Central schemes and systems of conservation laws with discontinuous coefficients modeling gravity separation of polydisperse suspensions. (English summary) **2005c:65068**
Bestehorn, Michael *see* **Merkt, D. et al., 2005m:76018**
Bi, Qinsheng *see* **Zhang, Zheng Di et al.**
Bichir, Cătălin Liviu (*with* Georgescu, Adelina; Palese, Lidia) A nonlinear hydrodynamic stability criterion derived by a generalized energy method. (English summary) **2005m:76093**
Bingham, Harry B. *see* **Fuhrman, David R. et al., 2005a:76110**
Birner, Michael (*with* Kaiser, Ralf) Stability balls in the rotating Bénard system. (English summary) **2005e:76040**
Boatto, Stefanella (*with* Cabral, Hildeberto E.) Nonlinear stability of a latitudinal ring of point-vortices on a nonrotating sphere. (English summary) **2005c:76022**
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Callebaut, D. K. *see* **Khater, A. H. et al., 2005h:76039**
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Coullet, Pierre (*with* Kramer, Lorenz) Retracting fronts induce spatiotemporal intermittency. (English summary) **2005a:37157**
Cvitanović, Predrag *see* **Lan, Yueheng et al., 2005c:37150**
Díaz Díaz, Jesús Ildefonso (*with* Straughan, B.) Global stability for convection when the viscosity has a maximum. (English summary) **2005a:76075**
El-Bassiouny, A. F. *see* **Elhefnawy, Abdel Raouf F.**
Elcoot, Abd Elmonem Khalil (*with* Moatimid, Galal M.) Nonlinear instability of finitely conducting cylindrical flows through porous media. (English summary) **2005f:76097**
— *see also* **Elhefnawy, Abdel Raouf F. et al., 2005a:76081**
Elhefnawy, Abdel Raouf F. (*with* Zakaria, K.; Sirwah, M. A.) Bifurcations of magnetized surface waves between two immiscible fluids inside a vertical cylindrical container. (English summary) **2005h:76037**
— (*with* Moatimid, Galal M.; Elcoot, Abd Elmonem Khalil) Nonlinear electrohydrodynamic instability of a finitely conducting cylinder: effect of interfacial surface charges. (English summary) **2005a:76081**
— (*with* El-Bassiouny, A. F.) Nonlinear stability and chaos in electrohydrodynamics. (English summary)
Faye, Mansour M. *see* **Pelap, François B., 2005a:35255**
Fuhrman, David R. (*with* Bingham, Harry B.; Madsen, Per A.; Thomsen, Per G.) Linear and non-linear stability analysis for finite difference discretizations of high-order Boussinesq equations. (English summary) **2005a:76110**
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Georgescu, Adelina *see* **Bichir, Cătălin Liviu et al., 2005m:76093**
Glasman, E. A. (*with* Golovin, Alexander A.; Nepomnyashchy, Alexander A.) Instabilities of wavy patterns governed by coupled Burgers equations. (English summary) **2005i:35244**
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Higuera, María J. (*with* Riecke, Hermann; Silber, Mary) Near-resonant steady mode interaction: periodic, quasi-periodic, and localized patterns. (English summary) **2005h:37187**
— (*with* Knobloch, Edgar; Vega, José M.) Dynamics of nearly inviscid Faraday waves in almost circular containers. (English summary) **2005i:76043**
Hill, Antony A. Conditional and unconditional nonlinear stability for convection induced by absorption of radiation in a porous medium. (English summary) **2005e:76078**
— Double-diffusive convection in a porous medium with a concentration based internal heat source. (English summary) **2005k:76131**
Jena, J. Group theoretic method for analyzing interaction of a weak discontinuity wave with a bore in shallow water waves. (English summary) **2005i:76044**
Julien, Keith (*with* Knobloch, Edgar; Tobias, Steve) Highly supercritical convection in strong magnetic fields. **2005i:76122**
Kaiser, Ralf (*with* Mulone, Giuseppe) A note on nonlinear stability of plane parallel shear flows. (English summary) **2005h:35283**
— *see also* **Birner, Michael, 2005e:76040**
Kaloni, P. N. (*with* Lou, J. X.) Nonlinear convection of a viscoelastic fluid with inclined temperature gradient. (English summary) **2005k:76011**
Kambe, Tsutomu ★ Geometrical theory of dynamical systems and fluid flows. **2005m:37207**
Karlsen, Kenneth H. *see* **Berres, Stefan et al., 2005c:65068**
Khater, A. H. (*with* Moawad, S. M.; Callebaut, D. K.) Linear and nonlinear stability analysis for two-dimensional ideal magnetohydrodynamics with incompressible flows. (English summary) **2005h:76039**
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Kurakin, L. G. On nonlinear stability of the regular vortex systems on a sphere. (English summary) **2005f:76025**
Lan, Yueheng (*with* Garnier, Nicolas; Cvitanović, Predrag) Stationary modulated-amplitude waves in the 1D complex Ginzburg-Landau equation. (English summary) **2005c:37150**
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Li, Na² *see* **Liu, Yong Ming**
Lipatov, I. I. (*with* Teshukov, V. V.) Nonlinear disturbances and weak discontinuities in a supersonic boundary layer. (Russian. Russian summary) **2005c:76074**
Liu, Hailiang (*with* Tadmor, Eitan) Rotation prevents finite-time breakdown. (English summary) **2005a:76161**
Liu, Yong Ming (*with* Li, Na²) An optimal Poincaré inequality. (Chinese. English and Chinese summaries)
Lou, J. X. *see* **Kaloni, P. N., 2005k:76011**
Madsen, Per A. *see* **Fuhrman, David R. et al., 2005a:76110**
Mancebo, Francisco J. (*with* Vega, José M.) Standing wave description of nearly conservative, parametrically driven waves in extended systems. (English summary) **2005f:76016**
Mehta, Prashant G. A unified well-posed computational approach for the 2D Orr-Sommerfeld problem. (English summary) **2005k:76100**
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Moatimid, Galal M. *see* **Elhefnawy, Abdel Raouf F. et al., 2005a:76081** *and* **Elcoot, Abd Elmonem Khalil, 2005f:76097**
Moawad, S. M. *see* **Khater, A. H. et al., 2005h:76039**
Montanero, J. M. (*with* Acero, F. J.) A note on the use of one-dimensional models to describe the linear dynamics of liquid bridges. (English summary)
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Nishida, Takaaki (*with* Teramoto, Yoshiaki; Yoshihara, Hideaki) Hopf bifurcation in viscous incompressible flow down an inclined plane. (English summary) **2005m:76049**
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Papageorgiou, Demetrios T. (*with* Petropoulos, Peter G.) Generation of interfacial instabilities in charged electrified viscous liquid films. (English summary) **2005i:76054**
Pelap, François B. (*with* Faye, Mansour M.) Modulational instability and exact solutions of the modified quintic complex Ginzburg-Landau equation. (English summary) **2005a:35255**
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Sirwah, M. A. *see* **Elhefnawy, Abdel Raouf F. et al., 2005h:76037**
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Straughan, B. Resonant porous penetrative convection. (English summary) **2005e:76081**
— *see also* **Díaz Díaz, Jesús Ildefonso, 2005a:76075**
Suslov, Sergey A. (*with* Paolucci, Samuel) Stability of non-Boussinesq convection via the complex Ginzburg-Landau model. (English summary) **2005c:76048**
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Takeuchi, Shingo (*with* Asakawa, Hidekazu; Yokota, Tomomi) Complex Ginzburg-Landau type equations with nonlinear Laplacian. (English summary) (*see* **2005c:35004**)
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Tobias, Steve *see* **Julien, Keith et al., 2005i:76122**
Uecker, Hannes *see* **Schneider, Guido[1], 2005d:76025**
Vega, José M. *see* **Mancebo, Francisco J., 2005f:76016** *and* **Higuera, María J. et al., 2005i:76043**
Verga, Alberto *see* **Sharma, R. P. et al., 2005i:76132**
Wang, He Yuan (*with* Li, Kai Tai) Numerical approximation of transcritical simple bifurcation point of the Navier-Stokes equations. (English summary) **2005c:76032**
Wei, Juncheng (*with* Winter, Matthias) On a cubic-quintic Ginzburg-Landau equation with global coupling. (English summary) **2005j:35113**
Wen, Jianping *see* **Zhang, Zheng Di et al.**
Winter, Matthias *see* **Wei, Juncheng, 2005j:35113**
Yang, Tong *see* **Nishihara, Kenji et al., 2005h:35232**
Yang, Yongfu (*with* Gao, Hong Jun) Continuous dependence on modelling for a complex Ginzburg-Landau equation with complex coefficients. (English summary) **2005h:35329**
Yokota, Tomomi *see* **Takeuchi, Shingo et al., (2005c:35004)**
Yoshihara, Hideaki *see* **Nishida, Takaaki et al., 2005m:76049**
Zakaria, K. *see* **Elhefnawy, Abdel Raouf F. et al., 2005h:76037**
Zhang, Zheng Di (*with* Bi, Qinsheng; Wen, Jianping) Bifurcations of traveling wave solutions for two coupled variant Boussinesq equations in shallow water waves. (English summary)
Zhao, Hui-Jiang *see* **Nishihara, Kenji et al., 2005h:35232**

76E99 None of the above, but in this section

Akulenko, L. D. (*with* Kumakshev, S. A.) Bifurcation of a viscous fluid flow in a plane diffusor. (Russian)
Bechtel, Stephen E. (*with* Rooney, Francis J.; Forest, M. Gregory) Connections between stability, convexity of internal energy, and the second law for compressible Newtonian fluids. (English summary) **2005m:76094**
Birbaud, Anne-Laure *see* **Lacaze, Laurent et al., 2005g:76057**
Brasseur, James G. (*with* Lin, Winston) Kinematics and dynamics of small-scale vorticity and strain-rate structures in the transition from isotropic to shear turbulence. (English summary)
Denier, James P. (*with* Stott, Jillian A. K.) The dominant wave mode within a trailing line vortex. (English summary) **2005g:76056**
Forest, M. Gregory *see* **Bechtel, Stephen E. et al., 2005m:76094**
Kim, Ju Hong Small amplitude theory of Richtmyer-Meshkov instability in cylindrical and spherical geometries. (English summary) **2005c:76053**
Kumakshev, S. A. *see* **Akulenko, L. D.**
Lacaze, Laurent (*with* Birbaud, Anne-Laure; Le Dizès, Stéphane) Elliptic instability in a Rankine vortex with axial flow. (English summary) **2005g:76057**
Le Dizès, Stéphane *see* **Lacaze, Laurent et al., 2005g:76057**

Lepage, Christophe (*with* Leweke, Thomas; Verga, Alberto) Spiral shear layers: roll-up and incipient instability. (English summary)
Leweke, Thomas *see* **Lepage, Christophe et al.**
Lin, Winston *see* **Brasseur, James G.**
Mousavizadegan, S. H. *see* **Rahman, Matiur, 2005m:76095**
Rahman, Matiur (*with* Mousavizadegan, S. H.) Nonlinear instability of dispersive waves. (English and Spanish summaries) **2005m:76095**
Rooney, Francis J. *see* **Bechtel, Stephen E. et al., 2005m:76094**
Ruckldge, Alastair M. Pattern formation in large domains. (English summary) **2005a:76087**
Stott, Jillian A. K. *see* **Denier, James P., 2005g:76056**
Verga, Alberto *see* **Lepage, Christophe et al.**

Items with secondary classifications in 76E99

Afsharnejad, Zahra *see* **Motlagh, O. Rabiei et al., 2005f:76050**
Agrawal, Jyoti (*with* Moudgalya, Kannan M.; Pani, Amiya K.) Sliding motion and stability of a class of discontinuous dynamical systems. (English summary) **2005f:76102**
Akulenko, L. D. (*with* Georgievskiĭ, D. V.; Klimov, D. M.; Kumakshev, S. A.; Nesterov, Sergeĭ V.) Stationary flow of a viscoplastic medium with small yield stress in a plane confusor. (English summary) **2005f:76004**
Azerad, Pascal (*with* Bänsch, Eberhard) Quasi-stability of the primary flow in a cone and plate viscometer. (English summary) **2005d:35198**
Bänsch, Eberhard *see* **Azerad, Pascal, 2005d:35198**
Blackburn, H. M. *see* **Marqués, Francisco et al., 2005f:37109**
Bridges, Thomas J. (*with* Fan, E. G.) Solitary waves, periodic waves, and a stability analysis for Zufiria's higher-order Boussinesq model for shallow water waves. (English summary) **2005a:76018**
Chiang, T. P. *see* **Sau, Amalendu et al., 2005g:76038**
Chow, K. W. *see* **Gurarie, David, 2005b:76026** *and* **Kuvshinov, B. N.**
Clercx, H. J. H. *see* **Schoemaker, R. M. et al., 2005e:76025**
Coulombel, Jean-François (*with* Secchi, Paolo) On the transition to instability for compressible vortex sheets. (English summary) **2005j:35226**
Després, Bruno (*with* Lagoutière, F.; Ramos, David) Stability of a thermodynamically coherent multiphase model. (English summary) **2005d:35162**
Dorodnitsyn, L. V. On the stability of small oscillations in a quasi-gas-dynamic system of equations. (Russian. Russian summary) **2005m:76150**
Du, Joshua Z. Kelvin-Helmholtz instability waves in supersonic multiple rectangular jets with large ratio. (English summary) (*see* **2005i:00016**)
van Duijn, C. J. (*with* Pieters, G. J. M.; Raats, P. A. C.) Steady flows in unsaturated soils are stable. (English summary) **2005e:76076**
Dutta, Srabasti (*with* Glimm, James; Grove, John W.; Sharp, David H.; Zhang, Yongmin) Error comparison in tracked and untracked spherical simulations. (English summary) **2005g:76091**
Eisenga, A. H. M. *see* **Grĭnchenko, V. T. et al., 2005a:76025**
Esfahani, J. A. *see* **Motlagh, O. Rabiei et al., 2005f:76050**
Fan, E. G. *see* **Bridges, Thomas J., 2005a:76018**
Georgievskiĭ, D. V. *see* **Akulenko, L. D. et al., 2005f:76004**
Glasser, Benjamin J. *see* **Howley, Maureen A., 2005i:76109**
Glimm, James *see* **Dutta, Srabasti et al., 2005g:76091** *and* **Samulyak, Roman et al., (2005g:65008)**
Grenier, Emmanuel (*with* Jones, Christopher K. R. T.; Rousset, Frédéric; Sandstede, Björn) Viscous perturbations of marginally stable Euler flow and finite-time Melnikov theory. (English summary) **2005k:76033**
Grĭnchenko, V. T. (*with* Meleshko, V. V.; Gurzhiĭ, A. A.; van Heijst, G. J. F.; Eisenga, A. H. M.) Two approaches to the analysis of the coaxial interaction of vortex rings. (English summary) **2005a:76025**
Grove, John W. *see* **Dutta, Srabasti et al., 2005g:76091**
Gubin, A. Yu. On the stability of a certain vortex motion of a viscous incompressible fluid. (Russian. Russian summary) **2005m:76038**
Gurarie, David (*with* Chow, K. W.) Vortex arrays for sinh-Poisson equation of two-dimensional fluids: equilibria and stability. (English summary) **2005b:76026**
— *see also* **Kuvshinov, B. N.**
Gurzhiĭ, A. A. *see* **Grĭnchenko, V. T. et al., 2005a:76025**
van Heijst, G. J. F. *see* **Grĭnchenko, V. T. et al., 2005a:76025** *and* **Schoemaker, R. M. et al., 2005e:76025**
Howley, Maureen A. (*with* Glasser, Benjamin J.) A comparison of one-dimensional traveling waves in inverse and normal fluidized beds. (English summary) **2005i:76109**
Huang, Feimin (*with* Matsumura, Akitaka; Shi, Xiaoding) On the stability of contact discontinuity for compressible Navier-Stokes equations with free boundary. **2005k:76108**
Hwang, Robert R. *see* **Sau, Amalendu et al., 2005g:76038**
Iwata, Yoritaka (*with* Yamamoto, Yoshitaka) Stability of equilibriums in one-dimensional motion of compressible viscous gas forced by self-gravity. (English summary) **2005g:76101**
Jones, Christopher K. R. T. *see* **Grenier, Emmanuel et al., 2005k:76033**
Kirk, Harold *see* **Samulyak, Roman et al., (2005g:65008)**
Klimov, D. M. *see* **Akulenko, L. D. et al., 2005f:76004**
Kumakshev, S. A. *see* **Akulenko, L. D. et al., 2005f:76004**
Kuvshinov, B. N. (*with* Schep, T. J.) Comment on: "Vortex arrays for sinh-Poisson equation of two-dimensional fluids: equilibria and stability" [Phys. Fluids **16** (2004), no. 9, 3296–3305; MR2082036 (2005b:76026)] by D. Gurarie and K. W. Chow.
Lagoutière, F. *see* **Després, Bruno et al., 2005d:35162**
Lopez, Juan M. *see* **Marqués, Francisco et al., 2005f:37109**
Luo, K. H. Instabilities, entrainment and mixing in reacting plumes. (English summary)
Lyng, Gregory (*with* Zumbrun, Kevin) One-dimensional stability of viscous strong detonation waves. (English summary) **2005f:76061**
Marqués, Francisco (*with* Lopez, Juan M.; Blackburn, H. M.) Bifurcations in systems with Z_2 spatio-temporal and O(2) spatial symmetry. (English summary) **2005f:37109**
Matsumura, Akitaka *see* **Huang, Feimin et al., 2005k:76108**
Mazumder, Bijoy S. *see* **Mondal, Kajal Kumar**
McDonald, Kirk *see* **Samulyak, Roman et al., (2005g:65008)**
Meleshko, V. V. *see* **Grĭnchenko, V. T. et al., 2005a:76025**
Molinet, Luc (*with* Talhouk, Raafat) Existence and stability results for 3-D regular flows of viscoelastic fluids of White-Metzner type. (English summary) **2005e:76007**
Mondal, Kajal Kumar (*with* Mazumder, Bijoy S.) On the solute dispersion in a pipe of annular cross-section with absorption boundary. (English summary)
Motlagh, O. Rabiei (*with* Esfahani, J. A.; Afsharnejad, Zahra) Existence of turbulent behavior for non-chaotic two dimensional jets. (English summary) **2005f:76050**
Moudgalya, Kannan M. *see* **Agrawal, Jyoti et al., 2005f:76102**
Munnier, Alexandre Stability and linear oscillations of liquid bridges with varied boundary conditions under zero gravity. (English summary) **2005a:76023**
Nesterov, Sergeĭ V. *see* **Akulenko, L. D. et al., 2005f:76004**
Oh, Wonho *see* **Samulyak, Roman et al., (2005g:65008)**
Pan, Jun[1] (*with* Warnecke, Gerald G.) Asymptotic stability of traveling waves for viscous conservation laws with dispersion. (English summary) **2005g:35259**
Pani, Amiya K. *see* **Agrawal, Jyoti et al., 2005f:76102**
Paşa, Gelu (*with* Titaud, Olivier) A class of viscosity profiles for oil displacement in porous media or Hele-Shaw cell. (English summary) **2005m:76173**
Pieters, G. J. M. *see* **van Duijn, C. J. et al., 2005e:76076**
Raats, P. A. C. *see* **van Duijn, C. J. et al., 2005e:76076**
Ramos, David *see* **Després, Bruno et al., 2005d:35162**
Renardy, Michael Topics in mathematical analysis of viscoelastic flow. (English summary) **2005b:76012**
Ribe, Neil M. Coiling of viscous jets. (English summary) **2005f:76037**
Rousset, Frédéric *see* **Grenier, Emmanuel et al., 2005k:76033**
Samulyak, Roman (*with* Glimm, James; Oh, Wonho; Kirk, Harold; McDonald, Kirk) Numerical simulation of free surface MHD flows: Richtmyer-Meshkov instability and applications. (English summary) (*see* **2005g:65008**)
Sandstede, Björn *see* **Grenier, Emmanuel et al., 2005k:76033**
Sau, Amalendu (*with* Sheu, Tony W. H.; Tsai, S. F.; Hwang, Robert R.; Chiang, T. P.) Structural development of vortical flows around a square jet in cross-flow. (English summary) **2005g:76038**
Sazonov, L. I. On the stability of periodic solutions of the Navier-Stokes system in a three-dimensional exterior domain. (Russian. Russian summary) **2005b:35225**
Schep, T. J. *see* **Kuvshinov, B. N.**
Schmidt, Dieter S. The stability of the Thomson heptagon. (English summary) **2005j:76021**
Schoemaker, R. M. (*with* Clercx, H. J. H.; van Heijst, G. J. F.) Stability and transport properties of multiple-patch quasiequilibria. (English summary) **2005e:76025**
Secchi, Paolo *see* **Coulombel, Jean-François, 2005j:35226**
Sergeev, V. S. On the stability in the critical case of the equilibrium state of a wing in an unsteady flow. (Russian. English and Russian summaries) **2005d:76026**
Sharp, David H. *see* **Dutta, Srabasti et al., 2005g:76091**
Sheu, Tony W. H. *see* **Sau, Amalendu et al., 2005g:76038**
Shi, Xiaoding *see* **Huang, Feimin et al., 2005k:76108**
Shushenachev, V. Yu. *see* **Tsvelodub, O. Yu., 2005m:76071**
Talhouk, Raafat *see* **Molinet, Luc, 2005e:76007**
Titaud, Olivier *see* **Paşa, Gelu, 2005m:76173**
Tsai, S. F. *see* **Sau, Amalendu et al., 2005g:76038**
Tsidulko, Yu. A. Two-dimensional dynamics of two-component plasma with finite β. (English summary) **2005e:76094**
Tsvelodub, O. Yu. (*with* Shushenachev, V. Yu.) Wave regimes on a nonlinearly viscous fluid film running down a vertical plane. (Russian. Russian summary) **2005m:76071**
Warnecke, Gerald G. *see* **Pan, Jun[1], 2005g:35259**
Yamamoto, Yoshitaka *see* **Iwata, Yoritaka, 2005g:76101**
Zhang, Yongmin *see* **Dutta, Srabasti et al., 2005g:76091**
Zumbrun, Kevin *see* **Lyng, Gregory, 2005f:76061**

76Fxx Turbulence [see also 37–XX, 60Gxx, 60Jxx]

Items with secondary classifications in 76Fxx

Castro, Ian P. Preface [Invited papers from the 9th EUROMECH European Turbulence Conference].
Davidson, P. A. ★ Turbulence. **2005f:76001**

76F02 Fundamentals

Bergstrom, Donald J. *see* **Wang, Bing-Chen, 2005k:76058**
Bessaih, H. (*with* Flandoli, Franco) A mean field result for 3D vortex filaments. (English summary) **2005f:76047**
Cheskidov, A. Boundary layer for the Navier-Stokes-alpha model of fluid turbulence. (English summary) **2005f:76048**
Clark, Timothy T. *see* **Younis, Bassam A. et al., 2005i:76059**
Clercx, H. J. H. *see* **Molenaar, D. et al., 2005g:76058**
Connaughton, Colm (*with* Newell, Alan C.; Pomeau, Yves) Non-stationary spectra of local wave turbulence. (English summary) **2005b:76066**
Coutand, Daniel (*with* Shkoller, Steve) Turbulent channel flow in weighted Sobolev spaces using the anisotropic Lagrangian averaged Navier-Stokes (LANS-α) equations. (English summary) **2005j:76045**
Danilov, Sergey Non-universal features of forced 2D turbulence in the energy and enstrophy ranges. (English summary) **2005h:76043**
Dascaliuc, Radu On backward-time behaviour of Burgers' original model for turbulence. (English summary) **2005k:76056**
Durst, Franz *see* **Huang, Yu-Ning et al., 2005f:76049**
Eringen, A. Cemal On a rational theory of turbulence. (English summary) **2005i:76058**
Fabijonas, Bruce R. (*with* Holm, Darryl D.) Craik-Criminale solutions and elliptic instability in nonlinear-reactive closure models for turbulence. (English summary) **2005a:76088**
Flandoli, Franco *see* **Bessaih, H., 2005f:76047**

Foias, Ciprian (*with* Jolly, M. S.; Manley, O. P.) Recurrence in the 2-*D* Navier-Stokes equations. (English summary) **2005k:76057**
van Heijst, G. J. F. *see* **Molenaar, D. et al., 2005g:76058**
Holm, Darryl D. *see* **Fabijonas, Bruce R., 2005a:76088**
Huang, Yu-Ning (*with* Durst, Franz; Rajagopal, Kumbakonam) The natural viscosity of turbulence. **2005f:76049**
— On modelling the Reynolds stress in the context of continuum mechanics. (English summary) **2005a:76089**
Jolly, M. S. *see* **Foias, Ciprian et al., 2005k:76057**
Kolesnichenko, A. V. Thermodynamic description of developed turbulence taking into account coherent vortex structures. (Russian. English and Russian summaries) **2005j:76046**
Kurien, Susan (*with* Taylor, Mark Alan; Matsumoto, Takeshi[1]) Cascade time scales for energy and helicity in homogeneous isotropic turbulence. (English summary) **2005e:76047**
Livescu, Daniel *see* **Ristorcelli, J. R.**
L'vov, Victor S. (*with* Pomyalov, Anna; Tiberkevich, Vasil) Multizone shell model for turbulent wall bounded flows. (English summary) **2005a:76090**
Manley, O. P. *see* **Foias, Ciprian et al., 2005k:76057**
Matsumoto, Takeshi[1] *see* **Kurien, Susan et al., 2005e:76047**
Molenaar, D. (*with* Clercx, H. J. H.; van Heijst, G. J. F.) Angular momentum of forced 2D turbulence in a square no-slip domain. (English summary) **2005g:76058**
Monaghan, J. J. Energy transfer in a particle α model. (English summary) **2005g:76059**
Newell, Alan C. *see* **Connaughton, Colm et al., 2005b:76066**
Núñez Jiménez, Manuel Minimum correlation time in turbulent magnetohydrodynamic flows. (English summary) **2005a:76091**
Pomeau, Yves *see* **Connaughton, Colm et al., 2005b:76066**
Pomyalov, Anna *see* **L'vov, Victor S. et al., 2005a:76090**
Rajagopal, Kumbakonam *see* **Huang, Yu-Ning et al., 2005f:76049**
Ristorcelli, J. R. (*with* Livescu, Daniel) Decay of isotropic turbulence: fixed points and solutions for nonconstant $G \sim R_\lambda$ palinstrophy. (English summary)
Shkoller, Steve *see* **Coutand, Daniel, 2005j:76045**
Speziale, Charles G. *see* **Younis, Bassam A. et al., 2005i:76059**
Sreenivasan, K. R. S. *see* **Yakhot, Victor, 2005d:76018**
Taylor, Mark Alan *see* **Kurien, Susan et al., 2005e:76047**
Tiberkevich, Vasil *see* **L'vov, Victor S. et al., 2005a:76090**
Tran, Chuong V. Nonlinear transfer and spectral distribution of energy in α turbulence. (English summary) **2005a:76092**
Valkov, Nedialko An attempt to use mechanical energy conservation principle in case of channel developed turbulent flow. (English summary) (*see* **2005b:00027**)
Wang, Bing-Chen (*with* Bergstrom, Donald J.) A dynamic nonlinear subgrid-scale stress model. (English summary) **2005k:76058**
Yakhot, Victor (*with* Sreenivasan, K. R. S.) Towards a dynamical theory of multifractals in turbulence. (English summary) **2005d:76018**
Younis, Bassam A. (*with* Speziale, Charles G.; Clark, Timothy T.) A rational model for the turbulent scalar fluxes. (English summary) **2005i:76059**

Items with secondary classifications in 76F02

Basurto, M. (*with* Tebaldi, Claudio[1]) Characterization of time periodic behaviour by proper orthogonal decomposition. (English summary) (*see* **2005c:00016**)
Biryuk, Andrei On multidimensional Burgers type equations with small viscosity. (English summary) **2005i:35218**
Constantin, Peter Filtered viscous fluid equations. (English summary) **2005b:76036**
Giraud, Christophe Some properties of Burgers turbulence with White noise initial conditions. (English summary) (*see* **2005c:60001**)
Heywood, John G. A curious phenomenon in a model problem, suggestive of the hydrodynamic inertial range and smallest scale of motion. (English summary) **2005a:76045**
Hutter, Kolumban (*with* Jöhnk, Klaus) ★ Continuum methods of physical modeling. **2005h:74001**
Iliescu, T. Genuinely nonlinear models for convection-dominated problems. (English summary) **2005h:76064**
Jöhnk, Klaus *see* **Hutter, Kolumban, 2005h:74001**
Kohatsu-Higa, Arturo *see* **Ogawa, Shigeyoshi, 2005d:60097**
(Kolmogorov, Andreĭ Nikolaevich) *see* **Kolmogorov legacy in physics, 2005a:00023** *and* **Mukhin, R. R., (2005c:01023)**
Kukavica, Igor Length of vorticity nodal sets for solutions of the 2D Navier-Stokes equations. (English summary) **2005c:35230**
(Livi, Roberto) *see* **Kolmogorov legacy in physics, 2005a:00023**
Lvov, Yuri V. (*with* Nazarenko, S. V.) Noisy spectra, long correlations, and intermittency in wave turbulence. (English summary) **2005e:76054**
Mikulevicius, R. (*with* Rozovskiĭ, B. L.) Stochastic Navier-Stokes equations for turbulent flows. (English summary) **2005b:60156**
Mukhin, R. R. A. N. Kolmogorov and the statistical theory of turbulence. (Russian. English and Russian summaries) (*see* **2005c:01023**)
Nazarenko, S. V. *see* **Lvov, Yuri V., 2005e:76054**
Ogawa, Shigeyoshi (*with* Kohatsu-Higa, Arturo) A BPE model for the Burgers equation. (English summary) **2005d:60097**
Ohkitani, Koji A survey on a class of exact solutions of the Navier-Stokes equations and a model for turbulence. (English summary) **2005k:76027**
Peletminskiĭ, S. V. (*with* Slyusarenko, Yu. V.; Sokolovskiĭ, A. I.) Kinetics and hydrodynamics of long-wave fluctuations under external random force. (English summary) **2005f:82103**
Reynolds, C. N. *see* **Truman, Aubrey et al., 2005k:60205**
Rozovskiĭ, B. L. *see* **Mikulevicius, R., 2005b:60156**
Slyusarenko, Yu. V. *see* **Peletminskiĭ, S. V. et al., 2005f:82103**
Sokolovskiĭ, A. I. *see* **Peletminskiĭ, S. V. et al., 2005f:82103**
Tebaldi, Claudio[1] *see* **Basurto, M., (2005c:00016)**
Truman, Aubrey (*with* Reynolds, C. N.; Williams, David) Stochastic Burgers equation in D-dimensions—a one-dimensional analysis: hot and cool caustics and intermittence of stochastic turbulence. (English summary) **2005k:60205**
(Vulpiani, Angelo) *see* **Kolmogorov legacy in physics, 2005a:00023**
Williams, David *see* **Truman, Aubrey et al., 2005k:60205**

Items listed otherwise than by author

Kolmogorov legacy in physics ★ The Kolmogorov legacy in physics. **2005a:00023**
Lecture Notes in Physics ★ The Kolmogorov legacy in physics. **2005a:00023**

76F05 Isotropic turbulence; homogeneous turbulence

Androulakis, George (*with* Dostoglou, Stamatis) Space averages and homogeneous fluid flows. (English summary) **2005m:76096**
Benzi, Roberto (*with* Biferale, Luca) Intermittency in turbulence. (English summary) **2005e:76048**
— (*with* Biferale, Luca; Sbragaglia, Mauro) A Gibbs-like measure for single-time, multi-scale energy transfer in stochastic signals and shell model of turbulence. (English summary) **2005g:76060**
Biferale, Luca (*with* Boffetta, Guido; Castaing, Bernard) Fully developed turbulence. (English summary) **2005b:76067**
— *see also* **Benzi, Roberto et al., 2005e:76048** *and* **2005g:76060**
Boffetta, Guido *see* **Biferale, Luca et al., 2005b:76067**
Castaing, Bernard *see* **Biferale, Luca et al., 2005b:76067**
Chartrand, Chris *see* **Perot, Blair, 2005k:76062**
Clark, Timothy T. *see* **Rubinstein, Robert et al.**
Davidson, P. A. *see* **Lowe, A. J.**
Dmitruk, Pablo (*with* Montgomery, David C.) Numerical study of the decay of enstrophy in a two-dimensional Navier-Stokes fluid in the limit of very small viscosities. (English summary) **2005k:76059**
Dostoglou, Stamatis *see* **Androulakis, George, 2005m:76096**
Farge, Marie *see* **Schneider, Kai et al., 2005j:76048**
Gaite, José Anisotropy in homogeneous rotating turbulence. (English summary) **2005a:76093**
Goto, Shin-itiro (*with* Osborne, D. R.; Vassilicos, J. C.; Haigh, J. D.) Acceleration statistics as measures of statistical persistence of streamlines in isotropic turbulence. (English summary) **2005k:76060**
Grebenev, V. N. (*with* Oberlack, Martin) A Chorin-type formula for solutions to a closure model for the von Kármán-Howarth equation. (English summary) **2005j:76047**
Haigh, J. D. *see* **Goto, Shin-itiro et al., 2005k:76060** *and* **Osborne, D. R. et al., 2005k:76061**
He, Guo-Wei (*with* Rubinstein, Robert) The mapping closure approximation to the conditional dissipation rate for turbulent scalar mixing. (English summary) **2005g:76061**
Kevlahan, Nicholas *see* **Schneider, Kai et al., 2005j:76048**
Livescu, Daniel *see* **Rubinstein, Robert et al.**
Lowe, A. J. (*with* Davidson, P. A.) The evolution of freely-decaying, isotropic, two-dimensional turbulence. (English summary)
Luo, Li-Shi *see* **Rubinstein, Robert et al.**
Montgomery, David C. *see* **Dmitruk, Pablo, 2005k:76059**
Oberlack, Martin *see* **Grebenev, V. N., 2005j:76047**
Osborne, D. R. (*with* Vassilicos, J. C.; Haigh, J. D.) One-particle two-time diffusion in three-dimensional homogeneous isotropic turbulence. (English summary) **2005k:76061**
— *see also* **Goto, Shin-itiro et al., 2005k:76060**
Perot, Blair (*with* Chartrand, Chris) Modeling return to isotropy using kinetic equations. (English summary) **2005k:76062**
Rubinstein, Robert (*with* Clark, Timothy T.; Livescu, Daniel; Luo, Li-Shi) Time-dependent isotropic turbulence. (English summary)
— *see also* **He, Guo-Wei, 2005g:76061**
Sbragaglia, Mauro *see* **Benzi, Roberto et al., 2005g:76060**
Schneider, Kai (*with* Farge, Marie; Kevlahan, Nicholas) Spatial intermittency in two-dimensional turbulence: a wavelet approach. (English summary) **2005j:76048**
Shebalin, John V. Theory and simulation of real and ideal magnetohydrodynamic turbulence. (English summary) **2005i:76060**
Shivamoggi, Bhimsen K. Erratum and addendum to: "Multifractal scaling at the Kolmogorov microscale in fully developed compressible turbulence" [Ann. Physics **243** (1995), no. 1, 177–191; MR1354221 (96i:76071)]. **Tatarskii, V. I.** Use of the 4/5 Kolmogorov equation for describing some characteristics of fully developed turbulence. (English summary) **2005k:76063**
Tatsumi, Tomomasa (*with* Yoshimura, Takahiro) Inertial similarity of velocity distributions in homogeneous isotropic turbulence. (English summary) **2005b:76068**
Vassilicos, J. C. *see* **Goto, Shin-itiro et al., 2005k:76060** *and* **Osborne, D. R. et al., 2005k:76061**
Yoshimura, Takahiro *see* **Tatsumi, Tomomasa, 2005b:76068**

Items with secondary classifications in 76F05

Khain, Alexander *see* **Pinsky, Mark B. et al., 2005b:76076**
Le Jan, Yves (*with* Raimond, Olivier) Flows, coalescence and noise. (English summary) **2005c:60075**
Levasseur, V. *see* **Sagaut, P., 2005k:76067**
Pinsky, Mark B. (*with* Shapiro, Michael; Khain, Alexander; Wirzberger, Hod) A statistical model of strains in homogeneous and isotropic turbulence. (English summary) **2005b:76076**
Raimond, Olivier *see* **Le Jan, Yves, 2005c:60075**
Sagaut, P. (*with* Levasseur, V.) Sensitivity of spectral variational multiscale methods for large-eddy simulation of isotropic turbulence. (English summary) **2005k:76067**
Shapiro, Michael *see* **Pinsky, Mark B. et al., 2005b:76076**
Wirzberger, Hod *see* **Pinsky, Mark B. et al., 2005b:76076**

76F06 Transition to turbulence

Afsharnejad, Zahra *see* **Motlagh, O. Rabiei et al., 2005f:76050**
Bonneton, Natalie *see* **Sous, Damien et al.**
Cebeci, Tuncer ★ Stability and transition: theory and application. **2005g:76062**

Chomaz, Jean-Marc Transition to turbulence in open flows: what linear and fully nonlinear local and global theories tell us. (English summary)
Esfahani, J. A. *see* **Motlagh, O. Rabiei et al., 2005f:76050**
Motlagh, O. Rabiei (*with* Esfahani, J. A.; Afsharnejad, Zahra) Existence of turbulent behavior for non-chaotic two dimensional jets. (English summary) **2005f:76050**
Sommeria, Joël *see* **Sous, Damien et al.**
Sous, Damien (*with* Bonneton, Natalie; Sommeria, Joël) Transition from deep to shallow water layer: formation of vortex dipoles. (English summary)

Items with secondary classifications in 76F06

Bergström, Lars B. Nonmodal growth of three-dimensional disturbances on plane Couette-Poiseuille flows. (English summary) **2005g:76050**
Duck, Peter W. Transient growth in developing plane and Hagen Poiseuille flow. (English summary) **2005m:76080**
Karniadakis, George Em *see* **Xiu, Dongbin, 2005f:76078**
Manuilovich, S. V. Spatial evolution of nonstationary perturbations in Hamel flow. (Russian. Russian summary) **2005c:76046**
— On the perturbation of Hamel flow due to unevenness of the channel walls. (Russian. Russian summary) **2005f:76034**
Walton, Andrew G. The stability of nonlinear neutral modes in Hagen-Poiseuille flow. (English summary) **2005h:76042**
Xiu, Dongbin (*with* Karniadakis, George Em) Supersensitivity due to uncertain boundary conditions. (English summary) **2005f:76078**

76F10 Shear flows

Andersson, H. I. *see* **Ghosh, Sankar Chandra et al.**
Biferale, Luca *see* **Jacob, Boris et al.**
Casciola, Carlo Massimo *see* **Jacob, Boris et al.**
Ghosh, Sankar Chandra (*with* Mazumdar, H. P.; Andersson, H. I.) A simple model for the homogeneous turbulent shear flow with frame rotation. (English summary)
Haller, György (*with* Iacono, R.) Stretching, alignment, and shear in slowly varying velocity fields. (English summary) **2005b:76069**
Iacono, R. *see* **Haller, György, 2005b:76069**
Iuso, Gaetano *see* **Jacob, Boris et al.**
Jacob, Boris (*with* Biferale, Luca; Iuso, Gaetano; Casciola, Carlo Massimo) Anisotropic fluctuations in turbulent shear flows. (English summary)
Kawahara, Genta *see* **Yanase, Shinichiro et al.**
Kida, Shigeo *see* **Yanase, Shinichiro et al.**
Levinskiĭ, V. B. *see* **Shukhman, I. G., 2005h:76044**
Mazumdar, H. P. *see* **Ghosh, Sankar Chandra et al.**
Oesterlé, Benoit (*with* Zaichik, Leonid I.) On Lagrangian time scales and particle dispersion modeling in equilibrium turbulent shear flows. (English summary)
Park, ChangHwan (*with* Park, S. O.) A compressible turbulence model for the pressure-strain correlation. (English summary)
Park, S. O. *see* **Park, ChangHwan**
Shukhman, I. G. (*with* Levinskiĭ, V. B.) Temporal evolution of a localized weak vortex in viscous circular shear flows. (English summary) **2005h:76044**
Tanaka, Mitsuru² *see* **Yanase, Shinichiro et al.**
Yanase, Shinichiro (*with* Tanaka, Mitsuru²; Kida, Shigeo; Kawahara, Genta) Generation and sustenance mechanisms of coherent vortical structures in rotating shear turbulence of zero-mean-absolute vorticity. (English summary)
Zaichik, Leonid I. *see* **Oesterlé, Benoit**

Items with secondary classifications in 76F10

Akylas, T. R. *see* **Skopovi, Ivan, 2005a:76029**
Barenblatt, G. I. (*with* Chorin, Alexandre J.) A mathematical model for the scaling of turbulence. (English summary) **2005h:76048**
Benzi, Roberto (*with* Biferale, Luca) Intermittency in turbulence. (English summary) **2005e:76048**
Biferale, Luca *see* **Benzi, Roberto, 2005e:76048**
Boukrouche, Mahdi (*with* Łukaszewicz, Grzegorz) An upper bound on the attractor dimension of a 2D turbulent shear flow in lubrication theory. (English summary) **2005h:37191**
Brasseur, James G. (*with* Lin, Winston) Kinematics and dynamics of small-scale vorticity and strain-rate structures in the transition from isotropic to shear turbulence. (English summary)
Chorin, Alexandre J. *see* **Barenblatt, G. I., 2005h:76048**
De Chant, Lawrence J. The venerable 1/7th power law turbulent velocity profile: a classical nonlinear boundary value problem solution and its relationship to stochastic processes. (English summary) **2005g:76068**
Franzese, P. (*with* Zannetti, Luca) A model of dispersion in the unsteady separated shear flow past complex geometries. (English summary) **2005b:76033**
Lin, Winston *see* **Brasseur, James G.**
Łukaszewicz, Grzegorz *see* **Boukrouche, Mahdi, 2005h:37191**
Skopovi, Ivan (*with* Akylas, T. R.) Transient nonlinear disturbances and shelves in a stratified fluid layer. (English summary) **2005a:76029**
Tabak, Esteban G. (*with* Tal, Fabio A.) Turbulent mixing of stratified flows. (English summary) **2005h:76046**
Tal, Fabio A. *see* **Tabak, Esteban G., 2005h:76046**
Zannetti, Luca *see* **Franzese, P., 2005b:76033**

76F20 Dynamical systems approach to turbulence [see also 37–XX]

Chen, Zhi-Min (*with* Price, W. G.) Transition to chaos in a fluid motion system. (English summary)
Cho, Han-Ru *see* **Tran, Chuong V. et al., 2005g:76064**
Duan, Wan-suo (*with* Li, Ji-bin) Chaotic and resonant stream lines in the quasi-symmetry flows. (English and Chinese summaries) **2005g:76063**
Gallavotti, Giovanni (*with* Rondoni, Lamberto; Segre, Enrico) Lyapunov spectra and nonequilibrium ensembles equivalence in 2D fluid mechanics. (English summary) **2005m:76097**
Grebogi, Celso *see* **de Moura, Alessandro P. S., 2005j:76049**
Leonard, Anthony Curvature and torsion of material lines in chaotic flows. (English summary) **2005m:76098**
Li, Ji-bin *see* **Duan, Wan-suo, 2005g:76063**
Lovejoy, Shaun *see* **Schertzer, Daniel, 2005a:76094**
de Moura, Alessandro P. S. (*with* Grebogi, Celso) Reactions in flows with nonhyperbolic dynamics. (English summary) **2005j:76049**
Price, W. G. *see* **Chen, Zhi-Min**
Rondoni, Lamberto *see* **Gallavotti, Giovanni et al., 2005m:76097**
Schertzer, Daniel (*with* Lovejoy, Shaun) Space-time complexity and multifractal predictability. (English summary) **2005a:76094**
Segre, Enrico *see* **Gallavotti, Giovanni et al., 2005m:76097**
Shepherd, Theodore G. *see* **Tran, Chuong V. et al., 2005g:76064**
Thiffeault, Jean-Luc Stretching and curvature of material lines in chaotic flows. (English summary) **2005f:76051**
Tran, Chuong V. (*with* Shepherd, Theodore G.; Cho, Han-Ru) Extensivity of two-dimensional turbulence. (English summary) **2005g:76064**

Items with secondary classifications in 76F20

Banaszuk, Andrzej *see* **Noack, Bernd R. et al., 2005b:76071**
Budyansky, M. (*with* Uleĭskiĭ, M. Yu.; Prants, S.) Hamiltonian fractals and chaotic scattering of passive particles by a topographical vortex and an alternating current. (English summary) **2005e:76049**
Chen, Zhi-Min (*with* Price, W. G.) Chaotic behavior of a Galerkin model of a two-dimensional flow. (English summary) **2005g:37163**
Dascaliuc, Radu On backward-time behaviour of Burgers' original model for turbulence. (English summary) **2005k:76056**
Do, Younghae (*with* Lai, Ying-Cheng) Stability of attractors formed by inertial particles in open chaotic flows. (English summary) **2005j:37143**
Duval, Walter M. B. Flow field topology of transient mixing driven by buoyancy. (English summary) **2005d:76019**
El-Bassiouny, A. F. *see* **Elhefnawy, Abdel Raouf F.**
Elhefnawy, Abdel Raouf F. (*with* El-Bassiouny, A. F.) Nonlinear stability and chaos in electrohydrodynamics. (English summary)
Eyink, Gregory L. (*with* Haine, T. W. N.; Lea, D. J.) Ruelle's linear response formula, ensemble adjoint schemes and Lévy flights. (English summary) **2005e:37201**
Fernández Sanjuán, Miguel Angel *see* **Feudel, F. et al.**
Feudel, F. (*with* Witt, Annette; Gellert, M.; Kurths, Jürgen; Grebogi, Celso; Fernández Sanjuán, Miguel Angel) Intersections of stable and unstable manifolds: the skeleton of Lagrangian chaos. (English summary)
Foias, Ciprian (*with* Jolly, M. S.; Manley, O. P.) Recurrence in the 2-*D* Navier-Stokes equations. (English summary) **2005k:76057**
Franzese, P. (*with* Zannetti, Luca) A model of dispersion in the unsteady separated shear flow past complex geometries. (English summary) **2005b:76033**
Gellert, M. *see* **Feudel, F. et al.**
Grebogi, Celso *see* **Feudel, F. et al.**
Haine, T. W. N. *see* **Eyink, Gregory L. et al., 2005e:37201**
Haller, György (*with* Iacono, R.) Stretching, alignment, and shear in slowly varying velocity fields. (English summary) **2005b:76069**
Hutter, Kolumban (*with* Jöhnk, Klaus) ★ Continuum methods of physical modeling. **2005h:74001**
Iacono, R. *see* **Haller, György, 2005b:76069**
Izrailsky, Yu. G. (*with* Kozlov, V. F.; Koshel′, K. V.) Some specific features of chaotization of the pulsating barotropic flow over elliptic and axisymmetric sea-mounts. (English summary) **2005c:76023**
Jöhnk, Klaus *see* **Hutter, Kolumban, 2005h:74001**
Jolly, M. S. *see* **Foias, Ciprian et al., 2005k:76057**
Kin, Eiko (*with* Sakajo, Takashi) Efficient topological chaos embedded in the blinking vortex system. (English summary) **2005m:76101**
Koshel′, K. V. (*with* Stepanov, D. V.) Some specific features on chaotization and transport in pulsating barotropic flow over a topographic point vortex near boundary. (English summary) **2005g:76016**
— *see also* **Izrailsky, Yu. G. et al., 2005c:76023**
Kozlov, V. F. *see* **Izrailsky, Yu. G. et al., 2005c:76023**
Kurths, Jürgen *see* **Feudel, F. et al.**
Lai, Ying-Cheng *see* **Do, Younghae, 2005j:37143**
Lea, D. J. *see* **Eyink, Gregory L. et al., 2005e:37201**
Lebedev, Vladimir V. (*with* Turitsyn, K. S.) Passive scalar evolution in peripheral regions. (English summary) **2005e:76050**
Manley, O. P. *see* **Foias, Ciprian et al., 2005k:76057**
Mezić, Igor *see* **Noack, Bernd R. et al., 2005b:76071**
Noack, Bernd R. (*with* Mezić, Igor; Tadmor, Gilead; Banaszuk, Andrzej) Optimal mixing in recirculation zones. (English summary) **2005b:76071**
Owhadi, Houman Averaging versus chaos in turbulent transport? (English summary) **2005c:76055**
Pikovskiĭ, A. S. *see* **Zaks, Mikhail A., 2005b:37057**
Prants, S. *see* **Budyansky, M. et al., 2005e:76049**
Price, W. G. *see* **Chen, Zhi-Min, 2005g:37163**
Roberts, A. J. (*with* Strunin, D. V.) Two-zone model of shear dispersion in a channel using centre manifolds. (English summary) **2005d:76021**
Sakajo, Takashi *see* **Kin, Eiko, 2005m:76101**
Sreenivasan, K. R. S. *see* **Yakhot, Victor, 2005d:76018**
Stepanov, D. V. *see* **Koshel′, K. V., 2005g:76016**
Strunin, D. V. *see* **Roberts, A. J., 2005d:76021**
Tadmor, Gilead *see* **Noack, Bernd R. et al., 2005b:76071**
Thiffeault, Jean-Luc The strange eigenmode in Lagrangian coordinates. (English summary) **2005d:76022**

Turitsyn, K. S. *see* **Lebedev, Vladimir V., 2005e:76050**
Uleĭskiĭ, M. Yu. *see* **Budyansky, M. et al., 2005e:76049**
Wiggins, Stephen The dynamical systems approach to Lagrangian transport in oceanic flows. (English summary) **2005i:37102**
Witt, Annette *see* **Feudel, F. et al.**
Yakhot, Victor (*with* Sreenivasan, K. R. S.) Towards a dynamical theory of multifractals in turbulence. (English summary) **2005d:76018**
Zaks, Mikhail A. (*with* Pikovskiĭ, A. S.) Dynamics at the border of chaos and order. (English summary) **2005b:37057**
Zannetti, Luca *see* **Franzese, P., 2005b:76033**

76F25 Turbulent transport, mixing

Allery, C. (*with* Béghein, C.; Hamdouni, A.) Applying proper orthogonal decomposition to the computation of particle dispersion in a two-dimensional ventilated cavity. (English summary) **2005m:76099**
Aref, Hassan *see* **Stremler, Mark A. et al.**
Banaszuk, Andrzej *see* **Noack, Bernd R. et al., 2005b:76071**
Béghein, C. *see* **Allery, C. et al., 2005m:76099**
Bottausci, Frederic (*with* Mezić, Igor; Meinhart, Carl D.; Cardonne, Caroline) Mixing in the shear superposition micromixer: three-dimensional analysis. (English summary)
Budyansky, M. (*with* Uleĭskiĭ, M. Yu.; Prants, S.) Hamiltonian fractals and chaotic scattering of passive particles by a topographical vortex and an alternating current. (English summary) **2005e:76049**
Busse, Friedrich H. *see* **Lu, Lu[2] et al., 2005a:76096**
Cardonne, Caroline *see* **Bottausci, Frederic et al.**
Celani, Antonio (*with* Musacchio, S.; Vincenzi, D.) Polymer transport in random flow. (English summary) **2005i:76061**
Chen, Jian *see* **Zhang, Shuang[2] et al., 2005h:76047**
Cox, Stephen M. Chaotic mixing of a competitive-consecutive reaction. (English summary) **2005g:76065**
Dimotakis, Paul E. Turbulent mixing. (English summary) **2005i:76062**
Doering, Charles R. *see* **Lu, Lu[2] et al., 2005a:76096**
Duval, Walter M. B. Flow field topology of transient mixing driven by buoyancy. (English summary) **2005d:76019**
Fereday, D. R. (*with* Haynes, P. H.) Scalar decay in two-dimensional chaotic advection and Batchelor-regime turbulence. (English summary) **2005f:76052**
Fernández Sanjuán, Miguel Angel *see* **Feudel, F. et al.**
Feudel, F. (*with* Witt, Annette; Gellert, M.; Kurths, Jürgen; Grebogi, Celso; Fernández Sanjuán, Miguel Angel) Intersections of stable and unstable manifolds: the skeleton of Lagrangian chaos. (English summary)
Funakoshi, Mitsuaki *see* **Mizuno, Yoshinori**
Gellert, M. *see* **Feudel, F. et al.**
George, Erwin (*with* Glimm, James) Self-similarity of Rayleigh-Taylor mixing rates. (English summary) **2005m:76100**
Glimm, James *see* **George, Erwin, 2005m:76100**
Goudon, Thierry (*with* Poupaud, Frédéric) On the modeling of the transport of particles in turbulent flows. (English summary) **2005g:76066**
Grebogi, Celso *see* **Feudel, F. et al.**
Hamdouni, A. *see* **Allery, C. et al., 2005m:76099**
Haselton, F. R. *see* **Stremler, Mark A. et al.**
Haynes, P. H. *see* **Fereday, D. R., 2005f:76052**
Hou, Thomas Yizhao (*with* Yang, Dan-ping; Wang, Ke[4]) Homogenization of incompressible Euler equations. (English summary) **2005a:76095**
Kin, Eiko (*with* Sakajo, Takashi) Efficient topological chaos embedded in the blinking vortex system. (English summary) **2005m:76101**
Kolmogorov, Andreĭ Nikolaevich Almost horizontal turbulence. (Russian) **2005d:76020**
Komorowski, Tomasz (*with* Krupa, Grzegorz) On stationarity of Lagrangian observations of passive tracer velocity in a compressible environment. (English summary) **2005h:76045**
— (*with* Krupa, Grzegorz) A note on an application of the Lasota-Yorke fixed point theorem in the turbulent transport problem. (English summary) **2005c:76054**
— (*with* Peszat, Szymon) Transport of a passive tracer by an irregular velocity field. (English summary) **2005b:76070**
Krasnopol'skaya, T. S. (*with* Meleshko, V. V.) Laminar mixing of fluids. I. Methodological aspects of the investigation. (Russian. English, Russian and Ukrainian summaries)
Krupa, Grzegorz *see* **Komorowski, Tomasz, 2005c:76054** *and* **2005h:76045**
Kurths, Jürgen *see* **Feudel, F. et al.**
Lebedev, Vladimir V. (*with* Turitsyn, K. S.) Passive scalar evolution in peripheral regions. (English summary) **2005e:76050**
Lototskiĭ, S. V. (*with* Rozovskiĭ, B. L.) The passive scalar equation in a turbulent incompressible Gaussian velocity field. (Russian. Russian summary) **2005e:76051**
Lu, Lu[2] (*with* Doering, Charles R.; Busse, Friedrich H.) Bounds on convection driven by internal heating. (English summary) **2005a:76096**
Meinhart, Carl D. *see* **Bottausci, Frederic et al.**
Meleshko, V. V. *see* **Krasnopol'skaya, T. S.**
Mezić, Igor *see* **Noack, Bernd R. et al., 2005b:76071** *and* **Bottausci, Frederic et al.**
Mizuno, Yoshinori (*with* Funakoshi, Mitsuaki) Chaotic mixing caused by an axially periodic steady flow in a partitioned-pipe mixer. (English summary)
Musacchio, S. *see* **Celani, Antonio et al., 2005i:76061**
Noack, Bernd R. (*with* Mezić, Igor; Tadmor, Gilead; Banaszuk, Andrzej) Optimal mixing in recirculation zones. (English summary) **2005b:76071**
Ottino, Julio M. (*with* Wiggins, Stephen) Introduction mixing in microfluidics. (English summary)
Owhadi, Houman Averaging versus chaos in turbulent transport? (English summary) **2005c:76055**
Peszat, Szymon *see* **Komorowski, Tomasz, 2005b:76070**
Piterbarg, Leonid I. On predictability of particle clusters in a stochastic flow. (English summary) **2005j:76050**
Poupaud, Frédéric *see* **Goudon, Thierry, 2005g:76066**
Prants, S. *see* **Budyansky, M. et al., 2005e:76049**
Roberts, A. J. (*with* Strunin, D. V.) Two-zone model of shear dispersion in a channel using centre manifolds. (English summary) **2005d:76021**
Rozovskiĭ, B. L. *see* **Lototskiĭ, S. V., 2005e:76051**
Sakajo, Takashi *see* **Kin, Eiko, 2005m:76101**
Stremler, Mark A. (*with* Haselton, F. R.; Aref, Hassan) Designing for chaos: applications of chaotic advection at the microscale. (English summary)
Strunin, D. V. *see* **Roberts, A. J., 2005d:76021**
Tabak, Esteban G. (*with* Tal, Fabio A.) Turbulent mixing of stratified flows. (English summary) **2005h:76046**
Tadmor, Gilead *see* **Noack, Bernd R. et al., 2005b:76071**
Tal, Fabio A. *see* **Tabak, Esteban G., 2005h:76046**
Thiffeault, Jean-Luc The strange eigenmode in Lagrangian coordinates. (English summary) **2005d:76022**
Turitsyn, K. S. *see* **Lebedev, Vladimir V., 2005e:76050**
Uleĭskiĭ, M. Yu. *see* **Budyansky, M. et al., 2005e:76049**
Vincenzi, D. *see* **Celani, Antonio et al., 2005i:76061**
Wang, Ke[4] *see* **Hou, Thomas Yizhao et al., 2005a:76095**
Wiggins, Stephen *see* **Ottino, Julio M.**
Witt, Annette *see* **Feudel, F. et al.**
Yang, Dan-ping *see* **Hou, Thomas Yizhao et al., 2005a:76095**
Zabusky, Norman J. *see* **Zhang, Shuang[2] et al., 2005h:76047**
Zhang, Shuang[2] (*with* Chen, Jian; Zabusky, Norman J.) Turbulent decay and mixing of accelerated inhomogeneous flows via a feature based analysis. (English summary) **2005h:76047**

Items with secondary classifications in 76F25

Ashurst, Wm. T. (*with* Kerstein, Alan R.) One-dimensional turbulence: variable-density formulation and application to mixing layers. (English summary) **2005i:76064**
Carlsson, Fredrik (*with* Sen, Mihir; Löfdahl, Lennart) Fluid mixing induced by vibrating walls. (English summary)
Celani, Antonio (*with* Cencini, Massimo; Noullez, Alain) Going forth and back in time: a fast and parsimonious algorithm for mixed initial/final-value problems. (English summary) **2005d:76031**
Cencini, Massimo *see* **Celani, Antonio et al., 2005d:76031**
Dolgopyat, Dmitry (*with* Kaloshin, Vadim Yu.; Koralov, Leonid) Sample path properties of the stochastic flows. (English summary) **2005a:60057**
Eliazar, Iddo (*with* Klafter, Joseph) Spatial gliding, temporal trapping, and anomalous transport. (English summary) **2005k:82094**
Fannjiang, Albert C. Convergence of passive scalar fields in Ornstein-Uhlenbeck flows in Kraichnan's model. (English summary) **2005b:76074**
Haller, György (*with* Iacono, R.) Stretching, alignment, and shear in slowly varying velocity fields. (English summary) **2005b:76069**
He, Guo-Wei (*with* Rubinstein, Robert) The mapping closure approximation to the conditional dissipation rate for turbulent scalar mixing. (English summary) **2005g:76061**
Iacono, R. *see* **Haller, György, 2005b:76069**
Izrailsky, Yu. G. (*with* Kozlov, V. F.; Koshel', K. V.) Some specific features of chaotization of the pulsating barotropic flow over elliptic and axisymmetric sea-mounts. (English summary) **2005c:76023**
John, Volker An assessment of two models for the subgrid scale tensor in the rational LES model. (English summary) **2005f:76056**
Jones, Christopher K. R. T. *see* **Yuan, Guo-Cheng et al.**
Kaloshin, Vadim Yu. *see* **Dolgopyat, Dmitry et al., 2005a:60057**
Kerstein, Alan R. *see* **Ashurst, Wm. T., 2005i:76064**
Kiss, I. Z. (*with* Merkin, John H.; Neufeld, Zoltán) Homogenization induced by chaotic mixing and diffusion in an oscillatory chemical reaction. (English summary) **2005k:92079**
Klafter, Joseph *see* **Eliazar, Iddo, 2005k:82094**
Komorowski, Tomasz (*with* Widelski, P.) Computation of the effective diffusivity tensor for transport of a passive scalar in a turbulent incompressible flow. (English summary) **2005k:60108**
Koralov, Leonid *see* **Dolgopyat, Dmitry et al., 2005a:60057**
Koshel', K. V. (*with* Stepanov, D. V.) Some specific features on chaotization and transport in pulsating barotropic flow over a topographic point vortex near boundary. (English summary) **2005g:76016**
— *see also* **Izrailsky, Yu. G. et al., 2005c:76023**
Kozlov, V. F. *see* **Izrailsky, Yu. G. et al., 2005c:76023**
Krupa, Grzegorz A note on diffusions in compressible environments. (English summary) **2005i:60058**
Löfdahl, Lennart *see* **Carlsson, Fredrik et al.**
Merkin, John H. *see* **Kiss, I. Z. et al., 2005k:92079**
Neufeld, Zoltán *see* **Kiss, I. Z. et al., 2005k:92079**
Noullez, Alain *see* **Celani, Antonio et al., 2005d:76031**
Pratt, L. J. *see* **Yuan, Guo-Cheng et al.**
Rubinstein, Robert *see* **He, Guo-Wei, 2005g:76061**
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Stepanov, D. V. *see* **Koshel', K. V., 2005g:76016**
Widelski, P. *see* **Komorowski, Tomasz, 2005k:60108**
Wiggins, Stephen The dynamical systems approach to Lagrangian transport in oceanic flows. (English summary) **2005i:37102**
Yuan, Guo-Cheng (*with* Pratt, L. J.; Jones, Christopher K. R. T.) Cross-jet Lagrangian transport and mixing in a $2\frac{1}{2}$-layer model. (English summary)

76F30 Renormalization and other field-theoretical methods [see also 81T99]

Adzhemyan, L. Ts. (*with* Antonov, N. V.; Honkonen, Juha; Kim, T. L.) Anomalous scaling of a passive scalar advected by the Navier-Stokes velocity field: two-loop approximation. (English summary) **2005m:76102**

— (*with* Honkonen, Juha; Kompaniets, M. V.; Vasil′ev, A. N.) Improved ϵ expansion for three-dimensional turbulence: two-loop renormalization near two dimensions. (English summary) **2005m:76103**
Antonov, N. V. (*with* Gol′din, P. B.) Exact anomalous dimensions of composite operators in the Obukhov-Kraichnan model. (Russian. Russian summary)
— *see also* **Adzhemyan, L. Ts. et al., 2005m:76102**
Gol′din, P. B. *see* **Antonov, N. V.**
Honkonen, Juha *see* **Adzhemyan, L. Ts. et al., 2005m:76102** *and* **2005m:76103**
Kim, T. L. *see* **Adzhemyan, L. Ts. et al., 2005m:76102**
Kompaniets, M. V. *see* **Adzhemyan, L. Ts. et al., 2005m:76103**
Vasil′ev, A. N. *see* **Adzhemyan, L. Ts. et al., 2005m:76103**

Items with secondary classifications in 76F30

Barenblatt, G. I. (*with* Chorin, Alexandre J.) A mathematical model for the scaling of turbulence. (English summary) **2005h:76048**
Bischof, Christian H. (*with* Bücker, H. Martin; Rasch, Arno) Sensitivity analysis of turbulence models using automatic differentiation. (English summary) **2005i:76069**
Bücker, H. Martin *see* **Bischof, Christian H. et al., 2005i:76069**
Chaves, Marta (*with* Gawędzki, Krzysztof; Horvai, Péter; Kupiainen, Antti; Vergassola, Massimo) Lagrangian dispersion in Gaussian self-similar velocity ensembles. (English summary) **2005d:76032**
Chorin, Alexandre J. *see* **Barenblatt, G. I., 2005h:76048**
Gawędzki, Krzysztof *see* **Chaves, Marta et al., 2005d:76032**
George, Erwin (*with* Glimm, James) Self-similarity of Rayleigh-Taylor mixing rates. (English summary) **2005m:76100**
Glimm, James *see* **George, Erwin, 2005m:76100**
Horvai, Péter *see* **Chaves, Marta et al., 2005d:76032**
Kupiainen, Antti *see* **Chaves, Marta et al., 2005d:76032**
Rasch, Arno *see* **Bischof, Christian H. et al., 2005i:76069**
Vergassola, Massimo *see* **Chaves, Marta et al., 2005d:76032**

76F40 Turbulent boundary layers

Barenblatt, G. I. (*with* Chorin, Alexandre J.) A mathematical model for the scaling of turbulence. (English summary) **2005h:76048**
Bewley, Thomas R. (*with* Protas, Bartosz) Skin friction and pressure: the "footprints" of turbulence. (English summary) **2005f:76053**
Chorin, Alexandre J. *see* **Barenblatt, G. I., 2005h:76048**
Gunes, Hasan (*with* Rist, Ulrich) Proper orthogonal decomposition reconstruction of a transitional boundary layer with and without control. (English summary)
John, Volker (*with* Layton, W. J.; Sahin, N.) Derivation and analysis of near wall models for channel and recirculating flows. (English summary) **2005g:76067**
Layton, W. J. *see* **John, Volker et al., 2005g:76067**
Mohamad, A. A. *see* **Rahman, Md Mizanur[1] et al., 2005i:76063**
Protas, Bartosz *see* **Bewley, Thomas R., 2005f:76053**
Rahman, Md Mizanur[1] (*with* Mohamad, A. A.; Siikonen, T.) A two-equation model with relevance to near-wall turbulence. (English summary) **2005i:76063**
Rist, Ulrich *see* **Gunes, Hasan**
Sahin, N. *see* **John, Volker et al., 2005g:76067**
Siikonen, T. *see* **Rahman, Md Mizanur[1] et al., 2005i:76063**
Vigdorovich, I. I. Similarity laws for velocity and temperature distribution in the wall region of a turbulent boundary layer with injection and suction. (Russian)
— On the relation between the hydrodynamic parameters of two different turbulent near-wall flows. (Russian)

Items with secondary classifications in 76F40

Afzal, Noor Analysis of power law and log law velocity profiles in the overlap region of a turbulent wall jet. (English summary)
Benzi, Roberto (*with* Biferale, Luca) Intermittency in turbulence. (English summary) **2005e:76048**
Biagioli, Fernando Position, thickness and transport properties of turbulent premixed flames in stagnating flows. (English summary) **2005f:80007**
Biferale, Luca *see* **Benzi, Roberto, 2005e:76048**
Cebeci, Tuncer ★ Stability and transition: theory and application. **2005g:76062**
Cheskidov, A. Boundary layer for the Navier-Stokes-alpha model of fluid turbulence. (English summary) **2005f:76048**
Clercx, H. J. H. *see* **Molenaar, D. et al., 2005g:76058**
Ferziger, Joel Henry *see* **Tseng, Yu-Heng**
van Heijst, G. J. F. *see* **Molenaar, D. et al., 2005g:76058**
Molenaar, D. (*with* Clercx, H. J. H.; van Heijst, G. J. F.) Angular momentum of forced 2D turbulence in a square no-slip domain. (English summary) **2005g:76058**
Tseng, Yu-Heng (*with* Ferziger, Joel Henry) Large-eddy simulation of turbulent wavy boundary flow—illustration of vortex dynamics. (English summary)

76F45 Stratification effects

van Buren, M. G. *see* **Satijn, M. P. et al., 2005f:76054**
Clercx, H. J. H. *see* **Satijn, M. P. et al., 2005f:76054**
van Heijst, G. J. F. *see* **Satijn, M. P. et al., 2005f:76054**
L'vov, Victor S. (*with* Pomyalov, Anna; Procaccia, Itamar; Tiberkevich, Vasil) Polymer stress tensor in turbulent shear flows. (English summary) **2005k:76064**
Pomyalov, Anna *see* **L'vov, Victor S. et al., 2005k:76064**
Procaccia, Itamar *see* **L'vov, Victor S. et al., 2005k:76064**
Satijn, M. P. (*with* van Buren, M. G.; Clercx, H. J. H.; van Heijst, G. J. F.) Vortex models based on similarity solutions of the two-dimensional diffusion equation. (English summary) **2005f:76054**
Tiberkevich, Vasil *see* **L'vov, Victor S. et al., 2005k:76064**

Items with secondary classifications in 76F45

Chen, Jian *see* **Zhang, Shuang[2] et al., 2005h:76047**
Tabak, Esteban G. (*with* Tal, Fabio A.) Turbulent mixing of stratified flows. (English summary) **2005h:76046**
Tal, Fabio A. *see* **Tabak, Esteban G., 2005h:76046**
Zabusky, Norman J. *see* **Zhang, Shuang[2] et al., 2005h:76047**
Zhang, Shuang[2] (*with* Chen, Jian; Zabusky, Norman J.) Turbulent decay and mixing of accelerated inhomogeneous flows via a feature based analysis. (English summary) **2005h:76047**

76F55 Statistical turbulence modeling [see also 76M35]

Ansumali, Santosh (*with* Karlin, I. V.; Succi, Sauro) Kinetic theory of turbulence modeling: smallness parameter, scaling and microscopic derivation of Smagorinsky model. (English summary) **2005e:76052**
Arimitsu, Naoko *see* **Arimitsu, Toshihico**
Arimitsu, Toshihico (*with* Arimitsu, Naoko) Multifractal analysis of fluid particle accelerations in turbulence. (English summary)
Ashurst, Wm. T. (*with* Kerstein, Alan R.) One-dimensional turbulence: variable-density formulation and application to mixing layers. (English summary) **2005i:76064**
Aubert, Julien *see* **Jung, Sunghwan et al.**
Bec, Jérémie (*with* Khanin, Konstantin) Forced Burgers equation in an unbounded domain. (English summary) **2005c:76056**
Beck, Christian *see* **Daniels, Karen E. et al.**
Bessaih, H. (*with* Flandoli, Franco) Limit behaviour of a dense collection of vortex filaments. (English summary) **2005m:76104**
Bodenschatz, Eberhard *see* **Daniels, Karen E. et al.**
Bousmina, Mosto *see* **Grmela, Miroslav et al., 2005g:76071**
Brouwers, J. J. H. Eulerian short-time statistics of turbulent flow at large Reynolds number. (English summary) **2005b:76072**
Casas-Vazquez, Jose *see* **Grmela, Miroslav et al., 2005g:76071**
Celani, Antonio (*with* Mazzino, Andrea; Pumir, Alain) Turbulence and stochastic processes. (English summary) **2005b:76073**
Chavanis, Pierre-Henri Statistical mechanics of geophysical turbulence: application to Jovian flows and Jupiter's great red spot. (English summary) **2005h:76049**
Cherkaoui Malki, Mohammed Ouçamah (*with* Omari Alaoui, Elkebir) Green's functions and closing in pressure in partially nonhomogeneous turbulence. (English summary) **2005i:76066**
— (*with* Sayouri, Salaheddine) Quasi spectral data construction in two points in partially nonhomogeneous turbulence. (English summary) **2005i:76065**
Choi, Yeontaek (*with* Lvov, Yuri V.; Nazarenko, S. V.) Joint statistics of amplitudes and phases in wave turbulence. (English summary) **2005i:76067**
Choudhari, Meelan *see* **Rubinstein, Robert, 2005i:76068**
Daniels, Karen E. (*with* Beck, Christian; Bodenschatz, Eberhard) Defect turbulence and generalized statistical mechanics. (English summary)
De Chant, Lawrence J. The venerable 1/7th power law turbulent velocity profile: a classical nonlinear boundary value problem solution and its relationship to stochastic processes. (English summary) **2005g:76068**
Fannjiang, Albert C. Convergence of passive scalar fields in Ornstein-Uhlenbeck flows in Kraichnan's model. (English summary) **2005b:76074**
Flandoli, Franco Some remarks on a statistical theory of turbulent flows. (English summary) **2005g:76069**
— *see also* **Bessaih, H., 2005m:76104**
Galanti, B. (*with* Tsinober, A.) Is turbulence ergodic? (English summary) **2005e:76053**
Gawędzki, Krzysztof (*with* Horvai, Péter) Sticky behavior of fluid particles in the compressible Kraichnan model. (English summary) **2005g:76070**
Gotoh, Toshiyuki (*with* Kraichnan, Robert H.) Turbulence and Tsallis statistics. (English summary) **2005c:76057**
Grmela, Miroslav (*with* Jou, David; Casas-Vazquez, Jose; Bousmina, Mosto; Lebon, Georgy) Ensemble averaging in turbulence modelling. (English summary) **2005g:76071**
Guo, Jie (*with* Zheng, Ning) Quantized energy cascade statistics model of fully developed turbulence. (English summary)
Heinloo, Jaak On the description of stochastic systems. (English and Estonian summaries)
Horvai, Péter *see* **Gawędzki, Krzysztof, 2005g:76070**
Hosokawa, Iwao Comment on: "Kolmogorov turbulence by matched asymptotic expansions" [Phys. Fluids **15** (2003), no. 4, 1074–1081; MR1964425 (2004b:76087)] by T. S. Lundgren.
— *see also* **Lundgren, Thomas S.**
Jou, David *see* **Grmela, Miroslav et al., 2005g:76071**
Jung, Sunghwan (*with* Storey, Brian D.; Aubert, Julien; Swinney, Harry L.) Nonextensive statistical mechanics for rotating quasi-two-dimensional turbulence. (English summary)
Karlin, I. V. *see* **Ansumali, Santosh et al., 2005e:76052**
Kerstein, Alan R. *see* **Ashurst, Wm. T., 2005i:76064**
Khain, Alexander *see* **Pinsky, Mark B. et al., 2005b:76076**
Khanin, Konstantin *see* **Bec, Jérémie, 2005c:76056**
Kraichnan, Robert H. *see* **Gotoh, Toshiyuki, 2005c:76057**
Lebon, Georgy *see* **Grmela, Miroslav et al., 2005g:76071**
Li, Yi[10] (*with* Meneveau, Charles) Analysis of mean momentum flux in subgrid models of turbulence. (English summary)
Lohse, Detlef *see* **Mazzitelli, Irene M.**
Lundgren, Thomas S. Response to: "Comment on: 'Kolmogorov turbulence by matched asymptotic expansions'" [Phys. Fluids **17** (2005), no. 5, 059101, 1 pp.; MR2147683] by I. Hosokawa.
— *see also* **Hosokawa, Iwao**
Lvov, Yuri V. (*with* Nazarenko, S. V.) Noisy spectra, long correlations, and intermittency in wave turbulence. (English summary) **2005e:76054**
— *see also* **Choi, Yeontaek et al., 2005i:76067**
Mazzino, Andrea *see* **Celani, Antonio et al., 2005b:76073**
Mazzitelli, Irene M. (*with* Lohse, Detlef) Lagrangian statistics for fluid particles and bubbles in turbulence. (English summary)
McKean, Henry P. Turbulence without pressure: existence of the invariant measure. (English summary) **2005d:76023**

Meneveau, Charles *see* **Li, Yi[10]**
Nazarenko, S. V. *see* **Lvov, Yuri V., 2005e:76054** *and* **Choi, Yeontaek et al., 2005i:76067**
O'Gorman, P. A. (*with* Pullin, D. I.) On modal time correlations of turbulent velocity and scalar fields. (English summary)
Olla, Piero (*with* Paradisi, Paolo) Relations between Lagrangian models and synthetic random velocity fields. (English summary) **2005j:76051**
Omari Alaoui, Elkebir *see* **Cherkaoui Malki, Mohammed Ouçamah, 2005i:76066**
Paradisi, Paolo *see* **Olla, Piero, 2005j:76051**
Peyrard, Michel The statistical distributions of one-dimensional "turbulence". (English summary) **2005b:76075**
Pinsky, Mark B. (*with* Shapiro, Michael; Khain, Alexander; Wirzberger, Hod) A statistical model of strains in homogeneous and isotropic turbulence. (English summary) **2005b:76076**
Pullin, D. I. *see* **O'Gorman, P. A.**
Pumir, Alain *see* **Celani, Antonio et al., 2005b:76073**
Reynolds, A. M. Superstatistical Lagrangian stochastic modeling. (English summary)
Rubinstein, Robert (*with* Choudhari, Meelan) Uncertainty quantification for systems with random initial conditions using Wiener-Hermite expansions. (English summary) **2005i:76068**
Sayouri, Salaheddine *see* **Cherkaoui Malki, Mohammed Ouçamah, 2005i:76065**
Shapiro, Michael *see* **Pinsky, Mark B. et al., 2005b:76076**
Shivamoggi, Bhimsen K. Passive scalar advection in Burgers turbulence: mapping-closure model. (English summary) **2005h:76050**
Storey, Brian D. *see* **Jung, Sunghwan et al.**
Succi, Sauro *see* **Ansumali, Santosh et al., 2005e:76052**
Sukhatme, Jai Probability density functions of decaying passive scalars in periodic domains: an application of Sinai-Yakhot theory. (English summary) **2005f:76055**
Swinney, Harry L. *see* **Jung, Sunghwan et al.**
Tsinober, A. *see* **Galanti, B., 2005e:76053**
Verma, Mahendra K. Statistical theory of magnetohydrodynamic turbulence: recent results. (English summary) **2005k:76065**
Wirzberger, Hod *see* **Pinsky, Mark B. et al., 2005b:76076**
Zheng, Ning *see* **Guo, Jie**

Items with secondary classifications in 76F55

Adzhemyan, L. Ts. (*with* Antonov, N. V.; Honkonen, Juha; Kim, T. L.) Anomalous scaling of a passive scalar advected by the Navier-Stokes velocity field: two-loop approximation. (English summary) **2005m:76102**
— (*with* Honkonen, Juha; Kompaniets, M. V.; Vasil'ev, A. N.) Improved ε expansion for three-dimensional turbulence: two-loop renormalization near two dimensions. (English summary) **2005m:76103**
Antonov, N. V. *see* **Adzhemyan, L. Ts. et al., 2005m:76102**
Barndorff-Nielsen, Ole E. (*with* Schmiegel, Jürgen) Spatio-temporal modeling based on Lévy processes, and its applications to turbulence. (Russian. Russian summary) **2005d:60114**
Barth, St. *see* **Peinke, J. et al., 2005b:91128**
Barton-Smith, Marc Global solution for a stochastic Ginzburg-Landau equation with multiplicative noise. (English summary) **2005a:60095**
Beck, Christian Superstatistics in hydrodynamic turbulence. (English summary) **2005c:82087**
Biferale, Luca (*with* Boffetta, Guido; Castaing, Bernard) Fully developed turbulence. (English summary) **2005b:76067**
Boffetta, Guido *see* **Biferale, Luca et al., 2005b:76067**
Böttcher, Frank *see* **Peinke, J. et al., 2005b:91128**
Carreras, Benjamin A. *see* **Sánchez Fernández, Luis Raúl et al., 2005m:82142**
Castaing, Bernard *see* **Biferale, Luca et al., 2005b:76067**
Castell, Fabienne Moderate deviations for diffusions in a random Gaussian shear flow drift. (English and French summaries) **2005b:60062**
Celani, Antonio (*with* Musacchio, S.; Vincenzi, D.) Polymer transport in random flow. (English summary) **2005i:76061**
Chartrand, Chris *see* **Perot, Blair, 2005k:76062**
Chaves, Marta (*with* Gawędzki, Krzysztof; Horvai, Péter; Kupiainen, Antti; Vergassola, Massimo) Lagrangian dispersion in Gaussian self-similar velocity ensembles. (English summary) **2005d:76032**
Chen, Tian-Quan ★ A non-equilibrium statistical mechanics. **2005c:82053**
Clark, Timothy T. *see* **Rubinstein, Robert et al.**
Cohen, E. G. D. Superstatistics. (English summary) **2005d:82059**
Davies, Ian M. (*with* Truman, Aubrey; Zhao, Huai Zhong) Stochastic heat and Burgers equations and the intermittence of turbulence. (English summary) (*see* **2005f:60008**)
Duan, Jin Qiao *see* **Gugg, Christoph, 2005d:60095**
Fereday, D. R. (*with* Haynes, P. H.) Scalar decay in two-dimensional chaotic advection and Batchelor-regime turbulence. (English summary) **2005f:76052**
Flandoli, Franco (*with* Gubinelli, Massimiliano) Random currents and probabilistic models of vortex filaments. (English summary) (*see* **2005f:60008**)
Gawędzki, Krzysztof *see* **Chaves, Marta et al., 2005d:76032**
Goldstein, Daniel E. (*with* Vasilyev, Oleg V.) Stochastic coherent adaptive large eddy simulation method. (English summary) **2005b:76077**
Goto, Shin-itiro (*with* Osborne, D. R.; Vassilicos, J. C.; Haigh, J. D.) Acceleration statistics as measures of statistical persistence of streamlines in isotropic turbulence. (English summary) **2005k:76060**
Gubinelli, Massimiliano *see* **Flandoli, Franco, (2005f:60008)**
Gugg, Christoph (*with* Duan, Jin Qiao) A Markov jump process approximation of the stochastic Burgers equation. (English summary) **2005d:60095**
Haigh, J. D. *see* **Goto, Shin-itiro et al., 2005k:76060** *and* **Osborne, D. R. et al., 2005k:76061**
Haynes, P. H. *see* **Fereday, D. R., 2005f:76052**
Honkonen, Juha *see* **Adzhemyan, L. Ts. et al., 2005m:76102** *and* **2005m:76103**
Horvai, Péter *see* **Chaves, Marta et al., 2005d:76032**
Ishii, Hiroyuki *see* **Takahashi, Naoya[2] et al., 2005k:76036**
Jona-Lasinio, Giovanni Self-similar random fields: from Kolmogorov to renormalization group. (English summary) (*see* **2005a:00023**)
Kim, T. L. *see* **Adzhemyan, L. Ts. et al., 2005m:76102**
Komorowski, Tomasz (*with* Peszat, Szymon) Transport of a passive tracer by an irregular velocity field. (English summary) **2005b:76070**
Kompaniets, M. V. *see* **Adzhemyan, L. Ts. et al., 2005m:76103**
Kupiainen, Antti *see* **Chaves, Marta et al., 2005d:76032**
Livescu, Daniel *see* **Rubinstein, Robert et al.**
Lototskiĭ, S. V. (*with* Rozovskiĭ, B. L.) The passive scalar equation in a turbulent incompressible Gaussian velocity field. (Russian. Russian summary) **2005e:76051**
Luo, Li-Shi *see* **Rubinstein, Robert et al.**
van Milligen, B. Ph. *see* **Sánchez Fernández, Luis Raúl et al., 2005m:82142**
Miyazaki, Takeshi *see* **Takahashi, Naoya[2] et al., 2005k:76036**
Molchan, G. On the uniqueness of the branching parameter for a random cascade measure. (English summary) **2005c:60065**
Musacchio, S. *see* **Celani, Antonio et al., 2005i:76061**
Nualart, David (*with* Rovira, Carles; Tindel, Samy) Probabilistic models for vortex filaments based on fractional Brownian motion. (English summary) **2005e:76068**
Osborne, D. R. (*with* Vassilicos, J. C.; Haigh, J. D.) One-particle two-time diffusion in three-dimensional homogeneous isotropic turbulence. (English summary) **2005k:76061**
— *see also* **Goto, Shin-itiro et al., 2005k:76060**
Peinke, J. (*with* Böttcher, Frank; Barth, St.) Anomalous statistics in turbulence, financial markets and other complex systems. (English summary) **2005b:91128**
Peletminskiĭ, S. V. (*with* Slyusarenko, Yu. V.; Sokolovskiĭ, A. I.) Kinetics and hydrodynamics of long-wave fluctuations under external random force. (English summary) **2005f:82103**
Perot, Blair (*with* Chartrand, Chris) Modeling return to isotropy using kinetic equations. (English summary) **2005k:76062**
Peszat, Szymon *see* **Komorowski, Tomasz, 2005b:76070**
Piterbarg, Leonid I. On predictability of particle clusters in a stochastic flow. (English summary) **2005j:76050**
(Qian, Min) *see* **Chen, Tian-Quan, 2005c:82053**
Robert, Raoul Statistical hydrodynamics (Onsager revisited). **2005a:76004**
Rovira, Carles *see* **Nualart, David et al., 2005e:76068**
Rozovskiĭ, B. L. *see* **Lototskiĭ, S. V., 2005e:76051**
Rubinstein, Robert (*with* Clark, Timothy T.; Livescu, Daniel; Luo, Li-Shi) Time-dependent isotropic turbulence. (English summary)
Sánchez Fernández, Luis Raúl (*with* Carreras, Benjamin A.; van Milligen, B. Ph.) Fluid limit of nonintegrable continuous-time random walks in terms of fractional differential equations. (English summary) **2005m:82142**
Schmiegel, Jürgen *see* **Barndorff-Nielsen, Ole E., 2005d:60114**
Slyusarenko, Yu. V. *see* **Peletminskiĭ, S. V. et al., 2005f:82103**
Sokolovskiĭ, A. I. *see* **Peletminskiĭ, S. V. et al., 2005f:82103**
Swinney, Harry L. (*with* Tsallis, Constantino) Preface: Anomalous distributions, nonlinear dynamics, and nonextensivity.
Takahashi, Naoya[2] (*with* Ishii, Hiroyuki; Miyazaki, Takeshi) The influence of turbulence on a columnar vortex. (English summary) **2005k:76036**
Tatarskii, V. I. Use of the 4/5 Kolmogorov equation for describing some characteristics of fully developed turbulence. (English summary) **2005k:76063**
Tatsumi, Tomomasa (*with* Yoshimura, Takahiro) Inertial similarity of velocity distributions in homogeneous isotropic turbulence. (English summary) **2005b:76068**
Tindel, Samy *see* **Nualart, David et al., 2005e:76068**
Truman, Aubrey *see* **Davies, Ian M. et al., (2005f:60008)**
Tsallis, Constantino *see* **Swinney, Harry L.**
Twardowska, Krystyna (*with* Zabczyk, Jerzy) A note on stochastic Burgers' system of equations. (English summary) **2005f:35343**
Vasil'ev, A. N. *see* **Adzhemyan, L. Ts. et al., 2005m:76103**
Vasilyev, Oleg V. *see* **Goldstein, Daniel E., 2005b:76077**
Vassilicos, J. C. *see* **Goto, Shin-itiro et al., 2005k:76060** *and* **Osborne, D. R. et al., 2005k:76061**
Vergassola, Massimo *see* **Chaves, Marta et al., 2005d:76032**
Vincenzi, D. *see* **Celani, Antonio et al., 2005i:76061**
Yoshimura, Takahiro *see* **Tatsumi, Tomomasa, 2005b:76068**
Zabczyk, Jerzy *see* **Twardowska, Krystyna, 2005f:35343**
Zhao, Huai Zhong *see* **Davies, Ian M. et al., (2005f:60008)**

76F60 k-ε modeling

Bischof, Christian H. (*with* Bücker, H. Martin; Rasch, Arno) Sensitivity analysis of turbulence models using automatic differentiation. (English summary) **2005i:76069**
Bücker, H. Martin *see* **Bischof, Christian H. et al., 2005i:76069**
Rasch, Arno *see* **Bischof, Christian H. et al., 2005i:76069**

Items with secondary classifications in 76F60

Bazdidi-Tehrani, F. (*with* Shahmir, A.; Haghparast-Kashani, A.) Numerical analysis of a single row of coolant jets injected into a heated crossflow. (English summary)
Haghparast-Kashani, A. *see* **Bazdidi-Tehrani, F. et al.**
Shahmir, A. *see* **Bazdidi-Tehrani, F. et al.**

76F65 Direct numerical and large eddy simulation of turbulence

Adams, Nikolaus A. (*with* Hickel, S.; Franz, S.) Implicit subgrid-scale modeling by adaptive deconvolution. (English summary) **2005d:76024**
Ashworth, R. M. *see* **Hutton, A. G.**
Berselli, Luigi C. (*with* Grisanti, Carlo R.) On the consistency of the rational large eddy simulation model. (English summary) **2005e:76055**
Bible, S. A. *see* **McDonough, James et al., 2005f:76057**
Blaisdell, Gregory A. *see* **Uzun, Ali et al.** *and* **Zhang, Xiangang et al.**
Borgas, Michael S. (*with* Sawford, Brian L.; Xu, Shuyi; Donzis, Diego A.; Yeung, P. K.) High Schmidt number scalars in turbulence: structure functions and Lagrangian theory. (English summary) **2005e:76056**

Bou-Zeid, Elie (*with* Meneveau, Charles; Parlange, Marc) A scale-dependent Lagrangian dynamic model for large eddy simulation of complex turbulent flows. (English summary)
Burton, Gregory C. (*with* Dahm, Werner J. A.) Multifractal subgrid-scale modeling for large-eddy simulation. I. Model development and a priori testing. (English summary)
— (*with* Dahm, Werner J. A.) Multifractal subgrid-scale modeling for large-eddy simulation. II. Backscatter limiting and a posteriori evaluation. (English summary)
Cannata, G. *see* **Gallerano, F. et al.**
Carati, Daniele *see* **Knaepen, Bernard et al., 2005k:76066**
Caughey, D. A. *see* **Lamorgese, A. G. et al.**
Cottet, Georges-Henri *see* **Jiroveanu, Delia et al.**
Dahm, Werner J. A. *see* **Burton, Gregory C.**
Debliquy, Olivier *see* **Knaepen, Bernard et al., 2005k:76066**
Donzis, Diego A. *see* **Borgas, Michael S. et al., 2005e:76056**
Dunca, Adrian (*with* John, Volker; Layton, W. J.) The commutation error of the space averaged Navier-Stokes equations on a bounded domain. (English summary) **2005j:76052**
Ferziger, Joel Henry *see* **Tseng, Yu-Heng**
Franz, S. *see* **Adams, Nikolaus A. et al., 2005d:76024**
Gallerano, F. (*with* Pasero, E.; Cannata, G.) A dynamic two-equation sub grid scale model. (English summary)
Goldstein, Daniel E. (*with* Vasilyev, Oleg V.) Stochastic coherent adaptive large eddy simulation method. (English summary) **2005b:76077**
Grisanti, Carlo R. *see* **Berselli, Luigi C., 2005e:76055**
Guermond, Jean-Luc (*with* Oden, J. Tinsley; Prudhomme, S.) Mathematical perspectives on large eddy simulation models for turbulent flows. (English summary) **2005b:76078**
Hickel, S. *see* **Adams, Nikolaus A. et al., 2005d:76024**
Hughes, Thomas J. R. (*with* Wells, Garth N.; Wray, Alan A.) Energy transfers and spectral eddy viscosity in large-eddy simulations of homogeneous isotropic turbulence: comparison of dynamic Smagorinsky and multiscale models over a range of discretizations. (English summary) **2005e:76057**
Hutton, A. G. (*with* Ashworth, R. M.) The challenge of turbulence modelling in modern aeronautical design. (English summary)
Jiroveanu, Delia (*with* Cottet, Georges-Henri; Michaux, Bertrand) Some numerical results with a selective eddy-viscosity model for large-eddy simulation. (English summary)
John, Volker An assessment of two models for the subgrid scale tensor in the rational LES model. (English summary) **2005f:76056**
— *see also* **Dunca, Adrian et al., 2005j:76052**
Knaepen, Bernard (*with* Debliquy, Olivier; Carati, Daniele) Large-eddy simulation without filter. (English summary) **2005k:76066**
Kobayashi, Hiromichi Large eddy simulation for the dynamic Clark model with an anisotropic filter. (English summary)
Labourasse, E. (*with* Sagaut, P.) Advance in RANS-LES coupling, a review and an insight on the NLDE approach. (English summary) **2005g:76072**
Lamorgese, A. G. (*with* Caughey, D. A.; Pope, Stephen B.) Direct numerical simulation of homogeneous turbulence with hyperviscosity. (English summary)
Layton, W. J. *see* **Dunca, Adrian et al., 2005j:76052**
Leschziner, Michael Modelling separation from curved surfaces with anisotropy-resolving turbulence closures . . . and related observations on large eddy simulation. (English summary) (*see* **2005g:76002**)
Levasseur, V. *see* **Sagaut, P., 2005k:76067**
Lyrintzis, Anastasios S. *see* **Uzun, Ali et al.** *and* **Zhang, Xiangang et al.**
McDonough, James (*with* Bible, S. A.; Scoville, J.) Response to strain rate in a discrete dynamical system model of the high-wavenumber Navier-Stokes equations. (English summary) **2005f:76057**
Meneveau, Charles *see* **Bou-Zeid, Elie et al.**
Michaux, Bertrand *see* **Jiroveanu, Delia et al.**
Oden, J. Tinsley *see* **Guermond, Jean-Luc et al., 2005b:76078**
Parlange, Marc *see* **Bou-Zeid, Elie et al.**
Pasero, E. *see* **Gallerano, F. et al.**
Pope, Stephen B. *see* **Lamorgese, A. G. et al.**
Prudhomme, S. *see* **Guermond, Jean-Luc et al., 2005b:76078**
Sagaut, P. (*with* Levasseur, V.) Sensitivity of spectral variational multiscale methods for large-eddy simulation of isotropic turbulence. (English summary) **2005k:76067**
— *see also* **Labourasse, E., 2005g:76072**
Sawford, Brian L. *see* **Borgas, Michael S. et al., 2005e:76056**
Scoville, J. *see* **McDonough, James et al., 2005f:76057**
Squires, K. D. *see* **Wasistho, B.**
Tseng, Yu-Heng (*with* Ferziger, Joel Henry) Large-eddy simulation of turbulent wavy boundary flow—illustration of vortex dynamics. (English summary)
Uzun, Ali (*with* Blaisdell, Gregory A.; Lyrintzis, Anastasios S.) Application of compact schemes to large eddy simulation of turbulent jets. (English summary)
Vasilyev, Oleg V. *see* **Goldstein, Daniel E., 2005b:76077**
Wasistho, B. (*with* Squires, K. D.) Prediction of turbulent separation over a backward-facing smooth ramp. (English summary)
Wells, Garth N. *see* **Hughes, Thomas J. R. et al., 2005e:76057**
Wray, Alan A. *see* **Hughes, Thomas J. R. et al., 2005e:76057**
Xu, Shuyi *see* **Borgas, Michael S. et al., 2005e:76056**
Yeung, P. K. *see* **Borgas, Michael S. et al., 2005e:76056**
Zhang, Xiangang (*with* Blaisdell, Gregory A.; Lyrintzis, Anastasios S.) High-order compact schemes with filters on multi-block domains. (English summary)

Items with secondary classifications in 76F65

Angelberger, C. *see* **Moureau, V. et al., 2005m:76138**
Bewley, Thomas R. (*with* Protas, Bartosz) Skin friction and pressure: the "footprints" of turbulence. (English summary) **2005f:76053**
Chevalier, G. *see* **Moet, H. et al., 2005m:76063**
Colin, O. *see* **Moureau, V. et al., 2005m:76138**
Coquart, Laure (*with* Sipp, Denis; Jacquin, Laurent) Mixing induced by Rayleigh-Taylor instability in a vortex. (English summary) **2005i:76040**
Dalziel, S. B. *see* **Patterson, M. D. et al., 2005k:86010**
Deville, Michel O. *see* **Manna, Marcello et al., 2005f:76073**
Dunca, Adrian (*with* John, Volker) Finite element error analysis of space averaged flow fields defined by a differential filter. (English summary) **2005a:76100**
Fureby, Christer *see* **Grinstein, Fernando F.**
Ghanem, Roger G. *see* **Zou, Yu[1], 2005i:76090**
Grinstein, Fernando F. (*with* Fureby, Christer) On monotonically integrated large eddy simulation of turbulent flows based on FCT algorithms. (English summary)
Hoffman, Johan On duality-based a posteriori error estimation in various norms and linear functionals for large eddy simulation. (English summary) **2005i:65142**
Jacquin, Laurent *see* **Coquart, Laure et al., 2005i:76040**
John, Volker (*with* Layton, W. J.; Sahin, N.) Derivation and analysis of near wall models for channel and recirculating flows. (English summary) **2005g:76067**
— (*with* Kaya, Songul) A finite element variational multiscale method for the Navier-Stokes equations. (English summary) **2005k:76077**
— *see also* **Dunca, Adrian, 2005a:76100**
Kawahara, Genta *see* **Yanase, Shinichiro et al.**
Kaya, Songul *see* **John, Volker, 2005k:76077**
Kida, Shigeo *see* **Yanase, Shinichiro et al.**
Laporte, F. *see* **Moet, H. et al., 2005m:76063**
Lartigue, G. *see* **Moureau, V. et al., 2005m:76138**
Layton, W. J. *see* **John, Volker et al., 2005g:76067**
Manna, Marcello (*with* Vacca, Andrea; Deville, Michel O.) Preconditioned spectral multi-domain discretization of the incompressible Navier-Stokes equations. (English summary) **2005f:76073**
Marshall, J. S. Particle dispersion in a turbulent vortex core. (English summary)
Moet, H. (*with* Laporte, F.; Chevalier, G.; Poinsot, T.) Wave propagation in vortices and vortex bursting. (English summary) **2005m:76063**
Moureau, V. (*with* Lartigue, G.; Sommerer, Y.; Angelberger, C.; Colin, O.; Poinsot, T.) Numerical methods for unsteady compressible multi-component reacting flows on fixed and moving grids. (English summary) **2005m:76138**
Nikiforakis, N. *see* **Patterson, M. D. et al., 2005k:86010**
Oberai, Assad A. (*with* Wanderer, J.) A dynamic approach for evaluating parameters in a numerical method. (English summary) **2005i:65216**
Patterson, M. D. (*with* Simpson, John E.; Dalziel, S. B.; Nikiforakis, N.) Numerical modelling of two-dimensional and axisymmetric gravity currents. (English summary) **2005k:86010**
Poinsot, T. *see* **Moet, H. et al., 2005m:76063** *and* **Moureau, V. et al., 2005m:76138**
Protas, Bartosz *see* **Bewley, Thomas R., 2005f:76053**
Prusa, Joseph M. *see* **Smolarkiewicz, Piotr K., 2005j:86003**
Sahin, N. *see* **John, Volker et al., 2005g:76067**
Simpson, John E. *see* **Patterson, M. D. et al., 2005k:86010**
Sipp, Denis *see* **Coquart, Laure et al., 2005i:76040**
Smolarkiewicz, Piotr K. (*with* Prusa, Joseph M.) Towards mesh adaptivity for geophysical turbulence: continuous mapping approach. (English summary) **2005j:86003**
Sommerer, Y. *see* **Moureau, V. et al., 2005m:76138**
Tanaka, Mitsuru[2] *see* **Yanase, Shinichiro et al.**
Vacca, Andrea *see* **Manna, Marcello et al., 2005f:76073**
Wanderer, J. *see* **Oberai, Assad A., 2005i:65216**
Yanase, Shinichiro (*with* Tanaka, Mitsuru[2]; Kida, Shigeo; Kawahara, Genta) Generation and sustenance mechanisms of coherent vortical structures in rotating shear turbulence of zero-mean-absolute vorticity. (English summary)
Zou, Yu[1] (*with* Ghanem, Roger G.) A multiscale data assimilation with the ensemble Kalman filter. (English summary) **2005i:76090**

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Items with secondary classifications in 76F70

Banaszuk, Andrzej *see* **Noack, Bernd R. et al., 2005b:76071**
Mezić, Igor *see* **Noack, Bernd R. et al., 2005b:76071**
Noack, Bernd R. (*with* Mezić, Igor; Tadmor, Gilead; Banaszuk, Andrzej) Optimal mixing in recirculation zones. (English summary) **2005b:76071**
Tadmor, Gilead *see* **Noack, Bernd R. et al., 2005b:76071**

76F99 None of the above, but in this section

Agullo, Olivier (*with* Verga, Alberto) Relaxation towards localized vorticity states in drift plasma and geostrophic flows. (English summary) **2005g:76073**
Alfredsson, P. Henrik *see* **Facciolo, Luca**
Babiano, A. *see* **Elhmaidi, D. et al.**
Barenghi, Carlo F. Turbulent dissipation near absolute zero. (English summary)
Bernardi, Christine (*with* Chacón-Rebollo, Tomás; Gómez Mármol, M.; Lewandowski, Roger; Murat, François) A model for two coupled turbulent fluids. III. Numerical approximation by finite elements. (English summary) **2005g:76074**
Biferale, Luca (*with* Daumont, I.; Lanotte, A.; Toschi, F.) Theoretical and numerical study of highly anisotropic turbulent flows. (English summary)
Bonneton, Natalie *see* **Sous, Damien et al.**
Cambon, C. (*with* Rubinstein, Robert; Godeferd, F. S.) Advances in wave turbulence: rapidly rotating flows. (English summary) **2005i:76070**
Chacón-Rebollo, Tomás *see* **Bernardi, Christine et al., 2005g:76074**
Chauve, Marie-Pierre *see* **Poncet, Sebastien et al.**
Daumont, I. *see* **Biferale, Luca et al.**
Dias, Frédéric *see* **Zakharov, Vladimir E. et al., 2005f:76058**
Elhmaidi, D. (*with* Provenzale, Antonello; Lili, T.; Babiano, A.) Stability of two-dimensional vorticity filaments. (English summary)
Fabijonas, Bruce R. (*with* Holm, Darryl D.) Elliptic instability in the Lagrangian-averaged Euler-Boussinesq-α equations. (English summary) **2005m:76105**
Facciolo, Luca (*with* Alfredsson, P. Henrik) The counter-rotating core of a swirling turbulent jet issued from a rotating pipe flow. (English summary)
Gaite, José Symmetry in anisotropic rotating turbulence. (English summary)

Godeferd, F. S. *see* **Cambon, C. et al., 2005i:76070**
Gómez Mármol, M. *see* **Bernardi, Christine et al., 2005g:76074**
Greenspan, Donald A study of molecular turbulence through the cavity problem for air. (English summary)
Holm, Darryl D. *see* **Fabijonas, Bruce R., 2005m:76105**
Kerr, Robert M. Vortex collapse and turbulence. (English summary) **2005m:76106**
Koudella, Christophe R. (*with* Neufeld, Zoltán) Reaction front propagation in a turbulent flow. (English summary) **2005j:76053**
Lanotte, A. *see* **Biferale, Luca et al.**
Lewandowski, Roger *see* **Bernardi, Christine et al., 2005g:76074**
Lili, T. *see* **Elhmaidi, D. et al.**
Mininni, Pablo D. (*with* Montgomery, David C.; Pouquet, Annick G.) A numerical study of the alpha model for two-dimensional magnetohydrodynamic turbulent flows. (English summary) **2005k:76068**
Montgomery, David C. *see* **Mininni, Pablo D. et al., 2005k:76068**
Murat, François *see* **Bernardi, Christine et al., 2005g:76074**
Neufeld, Zoltán *see* **Koudella, Christophe R., 2005j:76053**
Poncet, Sebastien (*with* Chauve, Marie-Pierre; Schiestel, Roland) Batchelor versus Stewartson flow structures in a rotor-stator cavity with throughflow. (English summary)
Pouquet, Annick G. *see* **Mininni, Pablo D. et al., 2005k:76068**
Provenzale, Antonello *see* **Elhmaidi, D. et al.**
Pushkarev, Andrei *see* **Zakharov, Vladimir E. et al., 2005f:76058**
Rubinstein, Robert *see* **Cambon, C. et al., 2005i:76070**
Schiestel, Roland *see* **Poncet, Sebastien et al.**
Schneider, Guido[1] (*with* Uecker, Hannes) Almost global existence and transient self similar decay for Poiseuille flow at criticality for exponentially long times. (English summary) **2005d:76025**
Sommeria, Joël *see* **Sous, Damien et al.**
Sous, Damien (*with* Bonneton, Natalie; Sommeria, Joël) Turbulent vortex dipoles in a shallow water layer. (English summary)
Toschi, F. *see* **Biferale, Luca et al.**
Uecker, Hannes *see* **Schneider, Guido[1], 2005d:76025**
Verga, Alberto *see* **Agullo, Olivier, 2005g:76073**
Yin, Zhaohua On final states of two-dimensional decaying turbulence. (English summary)
Zakharov, Vladimir E. (*with* Dias, Frédéric; Pushkarev, Andrei) One-dimensional wave turbulence. (English summary) **2005f:76058**

Items with secondary classifications in 76F99

Archapitak, J. *see* **Wiwatanapataphee, Benchawan et al., 2005b:65111**
Barenblatt, G. I. ★ Scaling. **2005e:00011**
Boghosian, Bruce M. (*with* Love, Peter J.; Yepez, Jeffrey) Entropic lattice Boltzmann model for Burgers's equation. (English summary) **2005d:76030**
Brandenburg, Axel Computational aspects of astrophysical MHD and turbulence. **2005c:85001**
— (*with* Matthaeus, William H.) Magnetic helicity evolution in a periodic domain with imposed field. (English summary) **2005f:76109**
Brüger, Arnim (*with* Gustafsson, Bertil; Lötstedt, Per; Nilsson, Jonas) High order accurate solution of the incompressible Navier-Stokes equations. (English summary) **2005f:76071**
Chkhetiani, O. G. Vorticity intensification in turbulent flows with helicity. (Russian. Russian summary) **2005k:86011**
(Chorin, Alexandre J.) *see* **Barenblatt, G. I., 2005e:00011**
Danilov, Sergey (*with* Gurarie, David) Scaling, spectra and zonal jets in beta-plane turbulence. (English summary) **2005b:86025**
Darmofal, David L. *see* **Nielsen, Eric J. et al., 2005c:76068**
Diamessis, P. J. (*with* Domaradzki, J. A.; Hesthaven, Jan S.) A spectral multidomain penalty method model for the simulation of high Reynolds number localized incompressible stratified turbulence. (English summary)
Domaradzki, J. A. *see* **Diamessis, P. J. et al.**
Dowling, Ann P. (*with* Hynes, T. P.) Sound generation by turbulence. (English summary)
E, Wei-nan (*with* Yue, Xing Y.) Heterogeneous multiscale method for locally self-similar problems. (English summary) **2005e:82057**
Elperin, Tov (*with* Golubev, Ilia; Kleeorin, Nathan; Rogachevskii, Igor) Excitation of large-scale inertial waves in a rotating inhomogeneous turbulence. (English summary) **2005k:76047**
Garcia, O. E. (*with* Naulin, Volker; Nielsen, Anders H.; Rasmussen, J. Juul) Turbulence and intermittent transport at the boundary of magnetized plasmas. (English summary)
Golubev, Ilia *see* **Elperin, Tov et al., 2005k:76047**
Gritzki, Ralf *see* **Knopp, Tobias et al., 2005m:76115**
Gurarie, David *see* **Danilov, Sergey, 2005b:86025**
Gurevich, Aleksandr Viktor (*with* Mazur, N. G.; Zybin, K. P.) Statistical limit in a completely integrable system. (English summary) **2005a:37124**
Gustafsson, Bertil *see* **Brüger, Arnim et al., 2005f:76071**
Hesthaven, Jan S. *see* **Diamessis, P. J. et al.**
Hynes, T. P. *see* **Dowling, Ann P.**
Kawahara, Genta Energy dissipation in spiral vortex layers wrapped around a straight vortex tube. (English summary) **2005m:76061**
Kleeorin, Nathan *see* **Elperin, Tov et al., 2005k:76047**
Knopp, Tobias (*with* Lube, Gert; Gritzki, Ralf; Rösler, Markus) A near-wall strategy for buoyancy-affected turbulent flows using stabilized FEM with applications to indoor air flow simulation. (English summary) **2005m:76115**
Lisei, Hannelore (*with* Scheutzow, Michael) On the dispersion of sets under the action of an isotropic Brownian flow. (English summary) **2005f:37113**
Loeper, Grégoire (*with* Vasseur, Alexis) Electric turbulence in a plasma subject to a strong magnetic field. (English summary) **2005j:78012**
Lötstedt, Per *see* **Brüger, Arnim et al., 2005f:76071**
Love, Peter J. *see* **Boghosian, Bruce M. et al., 2005d:76030**
Lu, James *see* **Nielsen, Eric J. et al., 2005c:76068**
Lube, Gert *see* **Knopp, Tobias et al., 2005m:76115**
Matthaeus, William H. *see* **Brandenburg, Axel, 2005f:76109**
Mazur, N. G. *see* **Gurevich, Aleksandr Viktor et al., 2005a:37124**
Mudde, Robert F. Gravity-driven bubbly flows. (English summary) **2005i:76110**
Naulin, Volker *see* **Garcia, O. E. et al.**
Nielsen, Anders H. *see* **Garcia, O. E. et al.**
Nielsen, Eric J. (*with* Lu, James; Park, Michael A.; Darmofal, David L.) An implicit, exact dual adjoint solution method for turbulent flows on unstructured grids. (English summary) **2005c:76068**
Nilsson, Jonas *see* **Brüger, Arnim et al., 2005f:76071**
Park, Michael A. *see* **Nielsen, Eric J. et al., 2005c:76068**
Pirozzoli, Sergio Dynamics of ring vortices impinging on planar shock waves. (English summary) **2005a:76097**
Pushkarev, Andrei (*with* Resio, D.; Zakharov, Vladimir E.) Weak turbulent approach to the wind-generated gravity sea waves. (English summary) **2005h:86007**
Rasmussen, J. Juul *see* **Garcia, O. E. et al.**
Resio, D. *see* **Pushkarev, Andrei et al., 2005h:86007**
Rogachevskii, Igor *see* **Elperin, Tov et al., 2005k:76047**
Rösler, Markus *see* **Knopp, Tobias et al., 2005m:76115**
Scheutzow, Michael *see* **Lisei, Hannelore, 2005f:37113**
Shablovskiĭ, O. N. Evolutional properties of discontinuous fluid flows with turbulent viscosity. (English summary)
Siew, P. F. *see* **Wiwatanapataphee, Benchawan et al., 2005b:65111**
Squires, K. D. *see* **Wasistho, B.**
Stremler, Mark A. Evaluation of phase-modulated lattice sums. (English summary) **2005f:11176**
Truman, Aubrey (*with* Zhao, Huai Zhong) Burgers equation and the WKB-Langer asymptotic L^2 approximation of eigenfunctions and their derivatives. (English summary) **2005e:81060**
Unyong, B. *see* **Wiwatanapataphee, Benchawan et al., 2005b:65111**
Vasseur, Alexis *see* **Loeper, Grégoire, 2005j:78012**
Wasistho, B. (*with* Squires, K. D.) Prediction of turbulent separation over a backward-facing smooth ramp. (English summary)
Wertgeim, I. I. (*with* Zakharov, V. G.) Numerical methods and parallel algorithms for study of Burgers' turbulence. (English summary) (*see* **2005b:76005**)
Wiwatanapataphee, Benchawan (*with* Wu, Yong Hong[1]; Archapitak, J.; Siew, P. F.; Unyong, B.) A numerical study of the turbulent flow of molten steel in a domain with a phase-change boundary. (English summary) **2005b:65111**
Wu, Yong Hong[1] *see* **Wiwatanapataphee, Benchawan et al., 2005b:65111**
Yepez, Jeffrey *see* **Boghosian, Bruce M. et al., 2005d:76030**
Yue, Xing Y. *see* **E, Wei-nan, 2005e:82057**
Zakharov, V. G. *see* **Wertgeim, I. I., (2005b:76005)**
Zakharov, Vladimir E. *see* **Pushkarev, Andrei et al., 2005h:86007**
Zhao, Huai Zhong *see* **Truman, Aubrey, 2005e:81060**
Zybin, K. P. *see* **Gurevich, Aleksandr Viktor et al., 2005a:37124**

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Abzalilov, D. F. (*with* Il′inskiĭ, N. B.) Construction of a stable airfoil. (Russian)
— (*with* Volkov, P. A.; Il′inskiĭ, N. B.) Solution of the inverse boundary value problem of aerohydrodynamics for a two-element airfoil. (Russian. Russian summary) **2005c:76058**
Afanas′ev, Ya. D. Flight in a viscous fluid: asymptotic theory of the vortex wake. (English summary)
Azuma, Akira (*with* Okamoto, Masato) Theoretical study on two-dimensional aerodynamic characteristics of unsteady wings. (English summary)
Balakrishnan, A. V. (*with* Shubov, Marianna A.) Asymptotic behaviour of the aeroelastic modes for an aircraft wing model in a subsonic air flow. (English summary) **2005m:76107**
Carabineanu, Adrian On the steady subsonic flow with circulation past the circular cylinder. (English summary) **2005m:76108**
Chow, K. W. *see* **Rogers, Colin et al., 2005j:76055**
Cole, Julian D. (*with* Malmuth, Norman D.) Wave drag due to lift for transonic airplanes. (English summary) **2005h:76051**
Dimitroglo, M. G. (*with* Lifanov, Ivan K.; Setukha, A. V.) On numerical modelling of a three-dimensional flow past a wing with external flow suction and on the effect of flow suction on trailing vortices. (English summary) **2005b:76079**
Elizarov, A. M. (*with* Fokin, D. A.) Exact solutions of the fundamental variational inverse boundary value problem of aerohydrodynamics. (Russian) **2005k:76069**
Fokin, D. A. *see* **Elizarov, A. M., 2005k:76069**
Grecu, Luminiţa A solution of the boundary integral equation of the theory of the infinite span airfoil in subsonic flow with linear boundary elements. (English summary) **2005c:76059**
Il′inskiĭ, N. B. *see* **Abzalilov, D. F. et al., 2005c:76058**
Kurzin, V. B. (*with* Tolstukha, A. S.) Calculation of the unsteady aerodynamic parameters of a rotating cascade of oscillating blades in incompressible flow. (Russian. Russian summary) **2005m:76109**
Lifanov, Ivan K. *see* **Dimitroglo, M. G. et al., 2005b:76079**
Mak, C. C. *see* **Rogers, Colin et al., 2005j:76055**
Malmuth, Norman D. *see* **Cole, Julian D., 2005h:76051**
Ogata, Hidenori Charge simulation method for two-dimensional compressible fluid flow. (English summary) **2005j:76054**
Okamoto, Masato *see* **Azuma, Akira**
Rogers, Colin (*with* Schief, Wolfgang Karl; Chow, K. W.; Mak, C. C.) On Tzitzéica vortex streets and their reciprocals in subsonic gas dynamics. (English summary) **2005j:76055**
Schief, Wolfgang Karl *see* **Rogers, Colin et al., 2005j:76055**
Sergeev, V. S. On the stability in the critical case of the equilibrium state of a wing in an unsteady flow. (Russian. English and Russian summaries) **2005d:76026**
Setukha, A. V. *see* **Dimitroglo, M. G. et al., 2005b:76079**
Shubov, Marianna A. *see* **Balakrishnan, A. V., 2005m:76107**
Tolstukha, A. S. The flow of an ideal incompressible fluid through lattices of arbitrary blades. (Russian. English summary) **2005f:76059**
— *see also* **Kurzin, V. B., 2005m:76109**

Volkov, P. A. *see* **Abzalilov, D. F. et al., 2005c:76058**
Wagner, Siegfried Flow-structure interactions on helicopter rotors in forward flight. (English summary)

Items with secondary classifications in 76G25

Aliev, N. A. (*with* Hosseini, S. Mohammad) Multidimensional singular Fredholm integral equations in a finite domain and their regularization. (English summary) **2005e:45005**
Ashworth, R. M. *see* **Hutton, A. G.**
Benney, Richard *see* **Stein, Keith et al.**
Bergmann, D. *see* **Rank, E. et al.**
(Bölkow, Ludwig) *see* **Hirschel, Ernst Heinrich et al., 2005b:76002**
Breuer, Michael *see* **Rank, E. et al.**
Brevdo, Leonid (*with* Il′ichev, A. T.) Absolute instability of a thin visco-elastic plate in an air flow. (English summary) **2005f:74028**
Brezillon, J. *see* **Hazra, Subhendu Bikash et al., 2005j:76076**
Chadwick, Edmund A slender-wing theory in potential flow. (English summary) **2005i:76015**
Charles, Richard *see* **Stein, Keith et al.**
Clark, R. L. *see* **Dowell, Earl H. et al., 2005h:74020**
Cox, David E. *see* **Dowell, Earl H. et al., 2005h:74020**
Curtiss, H. C., Jr. *see* **Dowell, Earl H. et al., 2005h:74020**
Dowell, Earl H. (*with* Clark, R. L.; Cox, David E.; Curtiss, H. C., Jr.; Edwards, John W.; Hall, Kenneth C.; Peters, David A.; Scanlan, Robert; Simiu, Emil; Sisto, Fernando; Strganac, Thomas W.) ★ A modern course in aeroelasticity. **2005h:74020**
— *see also* **Liu, Liping[1]**
Dubois, François Partial Riemann problem, boundary conditions, and gas dynamics. **2005e:76071**
Durst, Franz *see* **Rank, E. et al.**
Edwards, John W. *see* **Dowell, Earl H. et al., 2005h:74020**
Elizarov, A. M. (*with* Lapin, A. V.) Application of variational methods in inverse boundary value problems for analytic functions. (Russian) **2005h:30073**
Epstein, Boris *see* **Peigin, S., 2005j:76077**
Farhat, Charbel *see* **Piperno, Serge, 2005e:74017**
Gauger, N. R. *see* **Hazra, Subhendu Bikash et al., 2005j:76076**
Glück, Markus *see* **Rank, E. et al.**
Gumbert, Clyde R. (*with* Hou, Gene J. W.; Newman, Perry A.) High-fidelity computational optimization for 3-D flexible wings. I. Simultaneous aero-structural design optimization (SASDO). (English summary)
— (*with* Newman, Perry A.; Hou, Gene J. W.) High-fidelity computational optimization for 3-D flexible wings. II. Effect of random geometric uncertainty on design. (English summary)
Halfmann, A. *see* **Rank, E. et al.**
Hall, Kenneth C. *see* **Dowell, Earl H. et al., 2005h:74020**
Hazra, Subhendu Bikash (*with* Schulz, Volker; Brezillon, J.; Gauger, N. R.) Aerodynamic shape optimization using simultaneous pseudo-timestepping. (English summary) **2005j:76076**
Hirschel, Ernst Heinrich (*with* Prem, Horst; Madelung, Gero) ★ Aeronautical research in Germany. **2005b:76002**
Hosseini, S. Mohammad *see* **Aliev, N. A., 2005e:45005**
Hou, Gene J. W. *see* **Gumbert, Clyde R. et al.**
Hutton, A. G. (*with* Ashworth, R. M.) The challenge of turbulence modelling in modern aeronautical design. (English summary)
Iima, Makoto (*with* Yanagita, Tatsuo) Asymmetric motion of a two-dimensional symmetric flapping model. (English summary) **2005m:76208**
Il′ichev, A. T. *see* **Brevdo, Leonid, 2005f:74028**
Kaiser, U. *see* **Rank, E. et al.**
Kiĭko, I. A. (*with* Kudryavtsev, B. Yu.) Nonlinear aeroelastic vibrations of a rectangular plate. (Russian. Russian summary)
(Kröll, Walter) *see* **Hirschel, Ernst Heinrich et al., 2005b:76002**
Kudryavtsev, B. Yu. *see* **Kiĭko, I. A.**
(Lajos, Tamás) *see* **Modelling fluid flow, 2005g:76002**
Lapin, A. V. *see* **Elizarov, A. M., 2005h:30073**
Lin, Wen Wei (*with* Wang, Jenn-Nan) Partial pole assignment for the vibrating system with aerodynamic effect. (English summary) **2005h:93079**
Liu, Liping[1] (*with* Dowell, Earl H.) The secondary bifurcation of an aeroelastic airfoil motion: effect of high harmonics. (English summary)
Madelung, Gero *see* **Hirschel, Ernst Heinrich et al., 2005b:76002**
Mak, K. L. *see* **Yiu, K. F. C. et al., 2005k:49114**
Mardanov, R. F. An inverse boundary value problem for an Ekranoplan airfoil with a blow-out reactive jet. (Russian. Russian summary) **2005a:76014**
Meijering, A. *see* **Schröder, Wolfgang[2]**
Metcalfe, Paul D. Ribbed elastic structures under a mean flow. (English summary) **2005k:74029**
Morishita, Helio Mitio (*with* de Souza, Jessé Rebello, Junior) Dynamical features of an autonomous two-body floating system. (English summary) **2005d:34098**
Newman, Perry A. *see* **Gumbert, Clyde R. et al.**
Parolini, Nicola (*with* Quarteroni, Alfio) Mathematical models and numerical simulations for the America's Cup. (English summary) **2005i:74030**
Peake, N. On applications of high-frequency asymptotics in aeroacoustics. (English summary) **2005b:76123**
Peigin, S. (*with* Epstein, Boris) Constrained optimization of aerodynamic shapes via minimization of total drag. (English summary) **2005j:76077**
Peters, David A. *see* **Dowell, Earl H. et al., 2005h:74020**
Piperno, Serge (*with* Farhat, Charbel) Design of efficient partitioned procedures for the transient solution of aeroelastic problems. **2005e:74017**
Plakhov, Alexander Newton's problem of the body of minimal mean resistance. (Russian. Russian summary) **2005g:49073**
Prem, Horst *see* **Hirschel, Ernst Heinrich et al., 2005b:76002**
Qi, Ying Celia *see* **Zhao, Yiyuan J.**
Quarteroni, Alfio *see* **Parolini, Nicola, 2005i:74030**
Rank, E. (*with* Halfmann, A.; Scholz, D.; Glück, Markus; Breuer, Michael; Durst, Franz; Kaiser, U.; Bergmann, D.; Wagner, Siegfried) Wind loads on lightweight structures: numerical simulation and wind tunnel tests. (English summary)
Rogers, Colin (*with* Schief, Wolfgang Karl) Hidden integrability in subsonic gasdynamics. Reciprocal vortex street generation. (English summary) **2005f:76086**
Ryzhkova, Irina Stabilization of von Kármán plate in the presence of thermal effects in a subsonic potential flow of gas. (English summary) **2005c:74036**
Sathe, Sunil *see* **Stein, Keith et al.**
Scanlan, Robert *see* **Dowell, Earl H. et al., 2005h:74020**
Schief, Wolfgang Karl *see* **Rogers, Colin, 2005f:76086**
(Schilling, Rudolf) *see* **Modelling fluid flow, 2005g:76002**
Scholz, D. *see* **Rank, E. et al.**
Schröder, Wolfgang[2] (*with* Meijering, A.) Transonic flow over an adaptive wing section.
Schulz, Volker *see* **Hazra, Subhendu Bikash et al., 2005j:76076**
Sergeev, V. S. On limit-periodic motions in some systems with aftereffect. (Russian. Russian summary) **2005k:34272**
Shubov, Marianna A. Spectral properties of the generalized resolvent operator for an aircraft wing model in subsonic airflow. (English summary) **2005d:74013**
Silva, W. Identification of nonlinear aeroelastic systems based on the Volterra theory: progress and opportunities. (English summary)
Simiu, Emil *see* **Dowell, Earl H. et al., 2005h:74020**
Sisto, Fernando *see* **Dowell, Earl H. et al., 2005h:74020**
de Souza, Jessé Rebello, Junior *see* **Morishita, Helio Mitio, 2005d:34098**
Stein, Keith (*with* Tezduyar, Tayfun E.; Sathe, Sunil; Benney, Richard; Charles, Richard) Fluid-structure interaction modelling of parachute soft-landing dynamics. (English summary)
Strganac, Thomas W. *see* **Dowell, Earl H. et al., 2005h:74020**
Teo, Kok Lay *see* **Yiu, K. F. C. et al., 2005k:49114**
Tezduyar, Tayfun E. *see* **Stein, Keith et al.**
(Vad, János) *see* **Modelling fluid flow, 2005g:76002**
Wagner, Siegfried *see* **Rank, E. et al.**
Wang, Jenn-Nan *see* **Lin, Wen Wei, 2005h:93079**
Wang, Z. Jane Dissecting insect flight. (English summary) **2005i:76135**
Yanagita, Tatsuo *see* **Iima, Makoto, 2005m:76208**
Yiu, K. F. C. (*with* Mak, K. L.; Teo, Kok Lay) Airfoil design via optimal control theory. (English summary) **2005k:49114**
Zhao, Yiyuan J. Optimal patterns of glider dynamic soaring. (English summary) **2005e:49080**
— (*with* Qi, Ying Celia) Minimum fuel powered dynamic soaring of unmanned aerial vehicles utilizing wind gradients. (English summary)

Items listed otherwise than by author

Budapest ★ Modelling fluid flow. **2005g:76002**
Modelling fluid flow ★ Modelling fluid flow. **2005g:76002**

76H05 Transonic flows

Bibik, Yu. V. (*with* Diesperov, V. N.; Popov, S. P.) Structure of time-dependent transonic flows in plane channels. (Russian. Russian summary)
Diesperov, V. N. *see* **Bibik, Yu. V. et al.**
Ivanova, A. V. (*with* Kuz′min, A. G.) Nonuniqueness of the transonic flow past an airfoil. (Russian. Russian summary)
Kuz′min, A. G. *see* **Ivanova, A. V.**
Meijering, A. *see* **Schröder, Wolfgang[2]**
Popov, S. P. *see* **Bibik, Yu. V. et al.**
Savenkov, I. V. Transformation of acoustic disturbances into Tollmien-Schlichting waves in a boundary layer at transonic velocities of the external flow. (Russian. Russian summary) **2005k:76070**
Schröder, Wolfgang[2] (*with* Meijering, A.) Transonic flow over an adaptive wing section.

Items with secondary classifications in 76H05

Aliabadi, Shahrouz *see* **Tu, Shuangzhang, 2005h:76058**
Chen, Gui Qiang (*with* Feldman, Mikhail) Existence and stability of multidimensional transonic shocks for the Euler equations for steady potential fluids in unbounded domains. **2005c:35238**
— (*with* Feldman, Mikhail) Free boundary problems and transonic shocks for the Euler equations in unbounded domains. (English summary) **2005i:35295**
Chen, Qian-Yong (*with* Gottlieb, David; Hesthaven, Jan S.) Uncertainty analysis for the steady-state flows in a dual throat nozzle. (English summary) **2005j:76075**
Chen, Shuxing Stability of transonic shock fronts in two-dimensional Euler systems. (English summary) **2005h:35278**
Cipu, Elena Corina A shock wave propagation into a transonic flow of a compressible fluid. (English summary) **2005e:76059**
Cole, Julian D. (*with* Malmuth, Norman D.) Wave drag due to lift for transonic airplanes. (English summary) **2005h:76051**
Dolejší, Vít (*with* Felcman, Jiří) Anisotropic mesh adaptation for numerical solution of boundary value problems. (English summary) **2005g:65182**
Felcman, Jiří *see* **Dolejší, Vít, 2005g:65182**
Feldman, Mikhail *see* **Chen, Gui Qiang, 2005c:35238** *and* **2005i:35295**
Gottlieb, David *see* **Chen, Qian-Yong et al., 2005j:76075**
Hesthaven, Jan S. *see* **Chen, Qian-Yong et al., 2005j:76075**
Keyfitz, Barbara Lee Self-similar solutions of two-dimensional conservation laws. (English summary) **2005k:35265**
Malmuth, Norman D. *see* **Cole, Julian D., 2005h:76051**
Morawetz, Cathleen Synge Mixed equations and transonic flow. (English summary) **2005f:35259**
Rogov, B. V. Through marching method for computing transonic viscous flows. (Russian. English and Russian summaries)
Rosini, Massimiliano D. Stability of transonic strong shock waves for the one-dimensional hydrodynamic model for semiconductors. (English summary) **2005e:35159**

Segeth, Karel *see* **Šolín, Pavel, 2005f:76083**
Šolín, Pavel (*with* Segeth, Karel) Non-uniqueness of almost unidirectional inviscid compressible flow. (English summary) **2005f:76083**
Tu, Shuangzhang (*with* Aliabadi, Shahrouz) A slope limiting procedure in discontinuous Galerkin finite element method for gasdynamics applications. (English summary) **2005h:76058**

76J20 Supersonic flows

Carabineanu, Adrian Supersonic flow past a grid of thin profiles. (English summary) **2005c:76060**
Du, Joshua Z. Kelvin-Helmholtz instability waves in supersonic multiple rectangular jets with large ratio. (English summary) (*see* **2005i:00016**)
Nesteruk, I. G. (*with* Savchenko, Yu. M.) Peculiarities of plane supersonic flows with free surfaces. (Ukrainian. English summary)
Savchenko, Yu. M. *see* **Nesteruk, I. G.**

Items with secondary classifications in 76J20

Alekseev, A. K. (*with* Navon, Ionel Michael) A posteriori pointwise error estimation for compressible fluid flows using adjoint parameters and Lagrange remainder. (English summary) **2005g:76083**
Aliabadi, Shahrouz *see* **Tu, Shuangzhang, 2005h:76058**
Bartsch, Peter (*with* Borzì, Alfio) On the modeling and simulation of boundary flow through partially open pipe ends. (English summary) **2005f:76084**
Borzì, Alfio *see* **Bartsch, Peter, 2005f:76084**
Chen, Shuxing A free boundary problem of elliptic equation arising in supersonic flow past a conical body. (English summary) **2005c:35299**
Dervieux, Alain *see* **Vázquez-Cendón, María Elena et al., 2005c:76075**
Dubois, François Partial Riemann problem, boundary conditions, and gas dynamics. **2005e:76071**
Essers, J.-A. *see* **Vaassen, J.-M. et al.**
Gaponov, S. A. (*with* Smorodskiĭ, B. V.) Diffraction of acoustic waves by the leading edge of a flat plate in a supersonic flow. (Russian. Russian summary) **2005k:76121**
Koobus, B. *see* **Vázquez-Cendón, María Elena et al., 2005c:76075**
Li, Dening Analysis on linear stability of oblique shock waves in steady supersonic flow. (English summary) **2005f:35200**
Lipatov, I. I. (*with* Teshukov, V. V.) Nonlinear disturbances and weak discontinuities in a supersonic boundary layer. (Russian. Russian summary) **2005c:76074**
Navon, Ionel Michael *see* **Alekseev, A. K., 2005g:76083**
Smorodskiĭ, B. V. *see* **Gaponov, S. A., 2005k:76121**
Teshukov, V. V. *see* **Lipatov, I. I., 2005c:76074**
Tu, Shuangzhang (*with* Aliabadi, Shahrouz) A slope limiting procedure in discontinuous Galerkin finite element method for gasdynamics applications. (English summary) **2005h:76058**
Vaassen, J.-M. (*with* Wautelet, P.; Essers, J.-A.) Application of a third-order reconstruction scheme to hypersonic reacting flows using unstructured meshes and multigrid techniques. (English summary)
Vázquez-Cendón, María Elena (*with* Dervieux, Alain; Koobus, B.) Multilevel optimization of a supersonic aircraft. (English summary) **2005c:76075**
Wautelet, P. *see* **Vaassen, J.-M. et al.**

76K05 Hypersonic flows

Bogolepov, V. V. (*with* Neiland, V. Ya.) Regime diagram of the development of long-wave near-wall disturbances in a hypersonic boundary layer. (English summary)
Brykina, I. G. Asymptotic solution of the thin viscous shock layer equations at low Reynolds numbers for a cold surface. (Russian. Russian summary)
Chokani, Ndaona Nonlinear evolution of Mack modes in a hypersonic boundary layer. (English summary)
Neiland, V. Ya. *see* **Bogolepov, V. V.**

Items with secondary classifications in 76K05

Aliabadi, Shahrouz *see* **Tu, Shuangzhang, 2005h:76058**
Mao, Meiliang *see* **Xu, Kun et al., 2005i:76087**
Tang, Lei *see* **Xu, Kun et al., 2005i:76087**
Tu, Shuangzhang (*with* Aliabadi, Shahrouz) A slope limiting procedure in discontinuous Galerkin finite element method for gasdynamics applications. (English summary) **2005h:76058**
Xu, Kun (*with* Mao, Meiliang; Tang, Lei) A multidimensional gas-kinetic BGK scheme for hypersonic viscous flow. (English summary) **2005i:76087**

76L05 Shock waves and blast waves [see also 35L67]

Balasubramanian, Koushik (*with* Sujith, R. I.) Relativistic shock formation in the presence of radial entropy gradients. (English summary) **2005m:76110**
Bates, Jason W. Initial-value-problem solution for isolated rippled shock fronts in arbitrary fluid media. (English summary) **2005e:76058**
Brini, Francesca (*with* Ruggeri, Tommaso) The Riemann problem for a binary non-reacting mixture of Euler fluids. (English summary) (*see* **2005c:00016**)
Chandra, Mukesh *see* **Chauhan, Tarkeshwar Singh et al.**
Chauhan, I. S. *see* **Chauhan, Tarkeshwar Singh et al.**
Chauhan, Tarkeshwar Singh (*with* Chauhan, I. S.; Chandra, Mukesh) A note on shock waves in dusty medium. (English summary)
Cipu, Elena Corina A shock wave propagation into a transonic flow of a compressible fluid. (English summary) **2005e:76059**
Conforto, Fiammetta (*with* Jannelli, A.; Monaco, Roberto; Ruggeri, Tommaso) On the Riemann problem for a reacting mixture of gases. (English summary) (*see* **2005c:00016**)
Glimm, James (*with* Grove, John W.; Kang, Yonghee; Lee, Taewon; Li, Xiao Lin[1]; Sharp, David H.; Yu, Yan[3]; Ye, Kenny Q.; Zhao, Ming[2]) Statistical Riemann problems and a composition law for errors in numerical solutions of shock physics problems. (English summary) **2005i:76071**
Grove, John W. *see* **Glimm, James et al., 2005i:76071**
Jannelli, A. *see* **Conforto, Fiammetta et al., (2005c:00016)**
Kang, Yonghee *see* **Glimm, James et al., 2005i:76071**
Kovalev, V. G. (*with* Pozdeev, V. A.) On determining the profile of the wave generated by expanding cavity in fluid. (English summary) **2005m:76111**
Lee, Taewon *see* **Glimm, James et al., 2005i:76071**
Li, Xiao Lin[1] *see* **Glimm, James et al., 2005i:76071**
Lubchich, Andris A. (*with* Pudovkin, Mikhail I.) Interaction of small perturbations with shock waves. (English summary) **2005f:76060**
Lyng, Gregory (*with* Zumbrun, Kevin) One-dimensional stability of viscous strong detonation waves. (English summary) **2005f:76061**
Monaco, Roberto *see* **Conforto, Fiammetta et al., (2005c:00016)**
Muralidharan, Srevatsan (*with* Sujith, R. I.) Shock formation in the presence of entropy gradients in fluids exhibiting mixed nonlinearity. (English summary) **2005f:76062**
Pirozzoli, Sergio Dynamics of ring vortices impinging on planar shock waves. (English summary) **2005a:76097**
Pozdeev, V. A. *see* **Kovalev, V. G., 2005m:76111**
Pudovkin, Mikhail I. *see* **Lubchich, Andris A., 2005f:76060**
Ruggeri, Tommaso *see* **Brini, Francesca, (2005c:00016)** *and* **Conforto, Fiammetta et al., (2005c:00016)**
Sharp, David H. *see* **Glimm, James et al., 2005i:76071**
Sheng, Wan Cheng *see* **Yang, Liu, 2005m:76112**
Sujith, R. I. *see* **Muralidharan, Srevatsan, 2005f:76062** *and* **Balasubramanian, Koushik, 2005m:76110**
Yang, Liu (*with* Sheng, Wan Cheng) Interaction of shock waves of pressure difference for the equations in gas dynamics. (Chinese. English and Chinese summaries) **2005m:76112**
Ye, Kenny Q. *see* **Glimm, James et al., 2005i:76071**
Yu, Yan[3] *see* **Glimm, James et al., 2005i:76071**
Zhao, Ming[2] *see* **Glimm, James et al., 2005i:76071**
Zumbrun, Kevin *see* **Lyng, Gregory, 2005f:76061**

Items with secondary classifications in 76L05

Afendikov, A. L. (*with* Levkovich-Maslyuk, L. I.) Localization of singularities of gas-dynamic fields by using complex orthogonal wavelet expansions. (English summary)
Allwright, D. J. (*with* Kaouri, K.) Circulation in inviscid gas flows with shocks. (English summary) **2005b:76111**
Azarenok, Boris N. (*with* Tang, Tao) Second-order Godunov-type scheme for reactive flow calculations on moving meshes. (English summary) **2005k:76086**
Bagabir, A. (*with* Drikakis, Dimitris) Numerical experiments using high-resolution schemes for unsteady, inviscid, compressible flows. (English summary) **2005c:76066**
Baiti, Paolo (*with* LeFloch, Philippe G.; Piccoli, Benedetto) Existence theory for nonclassical entropy solutions of scalar conservation laws. (English summary) **2005h:35227**
Baskar, S. (*with* Prasad, Phoolan) Riemann problem for kinematical conservation laws and geometrical features of nonlinear wavefronts. (English summary) **2005d:35160**
Bauwens, Luc *see* **Liang, Zhe et al.**
Bedjaoui, Nabil (*with* LeFloch, Philippe G.) Diffusive-dispersive travelling waves and kinetic relations. V. Singular diffusion and nonlinear dispersion. (English summary) **2005g:35200**
Ben-Artzi, Matania (*with* Falcovitz, Joseph) ★ Generalized Riemann problems in computational fluid dynamics. **2005i:35177**
Benzoni-Gavage, S. (*with* Huot, P.; Rousset, Frédéric) Nonlinear stability of semidiscrete shock waves. (English summary) **2005j:35147**
— (*with* Freistühler, H.) Effects of surface tension on the stability of dynamical liquid-vapor interfaces. (English summary) **2005k:35310**
Bibik, Yu. V. (*with* Diesperov, V. N.; Popov, S. P.) Structure of time-dependent transonic flows in plane channels. (Russian. Russian summary)
Blokhin, A. M. On stability of shock waves in a compressible viscous gas. (English summary) **2005f:35237**
— (*with* Dorovskii, S. V.) Shock waves stability in layered structures. (English summary) **2005j:35148**
— (*with* Dorovskii, S. V.; Ovechkin, E. V.) Stability of shock waves in layered structures. II (English summary) **2005e:35236**
— (*with* Trakhinin, Yu. L.) On a modified shock front problem for the compressible Navier Stokes equations. (English summary) **2005c:35228**
Bongiovanni, Emmanuel (*with* Ern, Alexandre; Glinsky-Olivier, Nathalie) Evaluation of an energy relaxation method for the simulation of unsteady, viscous, real gas flows. (English summary) **2005a:76135**
Brykina, I. G. Asymptotic solution of the thin viscous shock layer equations at low Reynolds numbers for a cold surface. (Russian. Russian summary)
Burbeau-Augoula, Anne (*with* Sagaut, P.) A dynamic p-adaptive discontinuous Galerkin method for viscous flow with shocks. (English summary) **2005k:76072**
Carabineanu, Adrian Supersonic flow past a grid of thin profiles. (English summary) **2005c:76060**
Chen, Gui Qiang (*with* Feldman, Mikhail) Existence and stability of multidimensional transonic shocks for the Euler equations for steady potential fluids in unbounded domains. **2005c:35238**
— (*with* Feldman, Mikhail) Free boundary problems and transonic shocks for the Euler equations in unbounded domains. (English summary) **2005i:35295**
— (*with* Liu, Hailiang) Concentration and cavitation in the vanishing pressure limit of solutions to the Euler equations for nonisentropic fluids. (English summary) **2005i:76093**
— (*with* Li, Yachun) Relativistic Euler equations for isentropic fluids: stability of Riemann solutions with large oscillation. (English summary) **2005h:35277**
Chen, Shuxing (*with* Wang, Zejun; Zhang, Yongqian) Global existence of shock front solutions to the axially symmetric piston problem for compressible fluids. (English summary) **2005a:35189**
— Stability of transonic shock fronts in two-dimensional Euler systems. (English summary) **2005h:35278**

Chevaugeon, Nicolas (*with* Xin, Jianguo; Hu, Peng; Li, Xiangrong; Cler, D.; Flaherty, Joseph E.; Shephard, Mark S.) Discontinuous Galerkin methods applied to shock and blast problems. (English summary) **2005m:65210**
Cler, D. *see* **Chevaugeon, Nicolas et al., 2005m:65210**
Colombo, Rinaldo M. (*with* Corli, Andrea) Sonic and kinetic phase transitions with applications to Chapman-Jouguet deflagrations. (English summary) **2005f:35199**
Corli, Andrea (*with* Fan, Haitao) The Riemann problem for a three-phase flow. (English summary) **2005d:35161**
— *see also* **Colombo, Rinaldo M., 2005f:35199**
Coulombel, Jean-François Stability of multidimensional undercompressive shock waves. (English summary) **2005k:35259**
— Weakly stable multidimensional shocks. (English and French summaries) **2005e:35157**
Cunha, M. C. *see* **Nogueira, J. R., 2005e:76082**
Danilov, V. G. (*with* Shelkovich, V. M.) Propagation and interaction of delta-shock waves of a hyperbolic system of conservation laws. (English summary) **2005a:35191**
Diesperov, V. N. *see* **Bibik, Yu. V. et al.**
Dindoruk, Birol *see* **Johansen, Thormod et al., 2005m:76171** *and* **Wang, Yun et al., 2005m:76172**
Dinu, Liviu Florin An example of interaction between two gasdynamic objects: a shock discontinuity and a model of turbulence. (English summary)
Dorovskii, S. V. *see* **Blokhin, A. M. et al., 2005e:35236** *and* **2005j:35148**
Dou, Yan Ping Asymptotic stability of viscous shock profiles for one-dimensional viscous conservation laws with boundary effect. (Chinese. English and Chinese summaries)
Drikakis, Dimitris *see* **Bagabir, A., 2005c:76066**
Dubois, François Partial Riemann problem, boundary conditions, and gas dynamics. **2005e:76071**
Dutta, Srabasti (*with* Glimm, James; Grove, John W.; Sharp, David H.; Zhang, Yin[1]) A fast algorithm for moving interface problems. (English summary) (*see* **2005g:65009**)
— (*with* Glimm, James; Grove, John W.; Sharp, David H.; Zhang, Yongmin) Error comparison in tracked and untracked spherical simulations. (English summary) **2005g:76091**
Efraimsson, Gunilla *see* **Kreiss, Gunilla, 2005d:35164**
Ern, Alexandre *see* **Bongiovanni, Emmanuel et al., 2005a:76135**
Eu, Byung Chan Generalized hydrodynamics in the transient regime and irreversible thermodynamics. (English summary) **2005c:76014**
Falcovitz, Joseph *see* **Ben-Artzi, Matania, 2005i:35177**
Fan, Haitao *see* **Corli, Andrea, 2005d:35161**
Feldman, Mikhail *see* **Chen, Gui Qiang, 2005c:35238** *and* **2005i:35295**
Flaherty, Joseph E. *see* **Chevaugeon, Nicolas et al., 2005m:65210**
Fouque, Jean-Pierre (*with* Garnier, Josselin; Nachbin, André) Shock structure due to stochastic forcing and the time reversal of nonlinear waves. (English summary) **2005e:35158**
Freistühler, H. *see* **Benzoni-Gavage, S., 2005k:35310**
Frid, Hermano ★ Compacidade compensada aplicada às leis de conservação. (Portuguese) [Compensated compactness applied to conservation laws]
Garnier, Josselin *see* **Fouque, Jean-Pierre et al., 2005e:35158**
Glimm, James *see* **Dutta, Srabasti et al., 2005g:76091** *and* (**2005g:65009**)
Glinsky-Olivier, Nathalie *see* **Bongiovanni, Emmanuel et al., 2005a:76135**
Graur, I. A. Splitting difference schemes, constructed on the basis of quasi-gas-dynamic equations, for the solution of Euler equations. (Russian. Russian summary) **2005a:76111**
Grove, John W. *see* **Dutta, Srabasti et al., 2005g:76091** *and* (**2005g:65009**)
Guès, Olivier (*with* Métivier, Guy; Williams, Mark; Zumbrun, Kevin) Multidimensional viscous shocks. II. The small viscosity limit. (English summary) **2005f:35201**
— (*with* Métivier, Guy; Williams, Mark; Zumbrun, Kevin) Existence and stability of multidimensional shock fronts in the vanishing viscosity limit. (English summary) **2005k:35273**
Guinot, Vincent An approximate two-dimensional Riemann solver for hyperbolic systems of conservation laws. (English summary) **2005m:65168**
Hinch, E. J. (*with* Kelmanson, M. A.; Metcalfe, Paul D.) Shock-like free-surface perturbations in low-surface-tension, viscous, thin-film flow exterior to a rotating cylinder. (English summary) **2005f:76010**
Hu, Peng *see* **Chevaugeon, Nicolas et al., 2005m:65210**
Huang, Feimin (*with* Matsumura, Akitaka; Shi, Xiaoding) Viscous shock wave to a gas-solid free boundary problem for compressible gas. (English summary) **2005m:35317**
Huot, P. *see* **Benzoni-Gavage, S. et al., 2005j:35147**
Inoue, Yoshinori *see* **Kurihara, Eru et al.**
Jacobson, Tivon E. (*with* Tabak, Esteban G.) Standing shocks in a rotating channel. (English summary) **2005f:76015**
Johansen, Thormod (*with* Wang, Yun; Orr, Franklin M., Jr.; Dindoruk, Birol) Four-component gas/oil displacements in one dimension. I. Global triangular structure. (English summary) **2005m:76171**
— *see also* **Wang, Yun et al., 2005m:76172**
Kaouri, K. Solution of the kinematic wave equation with an accelerating point source. (English summary) **2005k:35251**
— *see also* **Allwright, D. J., 2005b:76111**
Karniadakis, George Em *see* **Lin, Guan et al., 2005f:76080**
Kawashima, Shuichi (*with* Tanaka, Yoshihito[2]) Stability of rarefaction waves for a model system of a radiating gas. **2005k:35264**
Keats, W. A. (*with* Lien, F.-S.) Two-dimensional anisotropic Cartesian mesh adaptation for the compressible Euler equations. (English summary)
Kelmanson, M. A. *see* **Hinch, E. J. et al., 2005f:76010**
Keyfitz, Barbara Lee (*with* Sever, Michael; Zhang, Fu) Viscous singular shock structure for a nonhyperbolic two-fluid model. (English summary) **2005j:35154**
Khastoo, B. *see* **Liang, Zhe et al.**
Kim, Ju Hong Small amplitude theory of Richtmyer-Meshkov instability in cylindrical and spherical geometries. (English summary) **2005c:76053**
Kondoh, Koji *see* **Ugai, M. et al., 2005m:76204**
Kreiss, Gunilla (*with* Kreiss, Heinz-Otto) A half plane problem related to the stability of viscous shock waves. (English summary) **2005c:35197**
— (*with* Efraimsson, Gunilla) Approximate solutions to slightly viscous conservation laws. (English summary) **2005d:35164**
— *see also* **Siklosi, Malin, (2005b:00020)**
Kreiss, Heinz-Otto *see* **Kreiss, Gunilla, 2005c:35197**
Kurihara, Eru (*with* Inoue, Yoshinori; Yano, Takeru) Nonlinear resonant oscillations and shock waves generated between two coaxial cylinders. (English summary)
LeFloch, Philippe G. Graph solutions of nonlinear hyperbolic systems. (English summary) **2005j:35143**
— (*with* Shearer, M.) Non-classical Riemann solvers with nucleation. (English summary) **2005j:35152**
— *see also* **Bedjaoui, Nabil, 2005g:35200** *and* **Baiti, Paolo et al., 2005h:35227**
Le Métayer, O. (*with* Massoni, J.; Saurel, Richard) Modelling evaporation fronts with reactive Riemann solvers. (English summary) **2005m:76136**
Levkovich-Maslyuk, L. I. *see* **Afendikov, A. L.**
Li, Dening Analysis on linear stability of oblique shock waves in steady supersonic flow. (English summary) **2005f:35200**
Li, Xiangrong *see* **Chevaugeon, Nicolas et al., 2005m:65210**
Li, Yachun *see* **Chen, Gui Qiang, 2005h:35277**
Liang, Zhe (*with* Khastoo, B.; Bauwens, Luc) Effect of reaction order on stability of planar detonation waves. (English summary)
Lien, F.-S. *see* **Keats, W. A.**
Lin, Guan (*with* Su, Chau Hsing; Karniadakis, George Em) The stochastic piston problem. (English summary) **2005f:76080**
Liu, Hailiang *see* **Chen, Gui Qiang, 2005i:76093**
Liu, Tai-Ping (*with* Ruggeri, Tommaso) Entropy production and admissibility of shocks. (English summary) **2005f:35202**
Lobão, Diomar Cesar (*with* Povitsky, Alex) Modeling of plume dynamics and shock wave in laser ablation with application to nano-technology. (English summary) (*see* **2005g:65009**)
Luo, Tao[2] (*with* Yang, Tong) Global structure and asymptotic behavior of weak solutions to flood wave equations. (English summary) **2005i:35175**
Lyng, Gregory (*with* Zumbrun, Kevin) A stability index for detonation waves in Majda's model for reacting flow. (English summary) **2005d:35134**
Madhumita, G. (*with* Sharma, V. D.) Imploding cylindrical and spherical shock waves in a non-ideal medium. (English summary) **2005g:35212**
Mamontov, Evgeniĭ Vladimirovich Strong discontinuities in 2-submodels of class E of gas dynamic equations. (Russian. Russian summary) **2005k:76111**
Mascia, Corrado (*with* Zumbrun, Kevin) Stability of small-amplitude shock profiles of symmetric hyperbolic-parabolic systems. (English summary) **2005e:35022**
Massoni, J. *see* **Le Métayer, O. et al., 2005m:76136**
Matsumura, Akitaka *see* **Huang, Feimin et al., 2005m:35317**
Metcalfe, Paul D. *see* **Hinch, E. J. et al., 2005f:76010**
Métivier, Guy (*with* Zumbrun, Kevin) Hyperbolic boundary value problems for symmetric systems with variable multiplicities. (English summary) **2005j:35145**
— *see also* **Guès, Olivier et al., 2005f:35201** *and* **2005k:35273**
Mikaelian, Karnig O. Richtmyer-Meshkov instability of arbitrary shapes. (English summary) **2005k:76052**
Nachbin, André *see* **Fouque, Jean-Pierre et al., 2005e:35158**
Nogueira, J. R. (*with* Cunha, M. C.) Simulation of oil recovery using water bank injection. (Portuguese. Portuguese summary) **2005e:76082**
Orr, Franklin M., Jr. *see* **Johansen, Thormod et al., 2005m:76171** *and* **Wang, Yun et al., 2005m:76172**
Ovechkin, E. V. *see* **Blokhin, A. M. et al., 2005e:35236**
Piccoli, Benedetto *see* **Baiti, Paolo et al., 2005h:35227**
Popov, S. P. *see* **Bibik, Yu. V. et al.**
Povitsky, Alex *see* **Lobão, Diomar Cesar**, (**2005g:65009**)
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Rasulov, Mahir The finite differences scheme for the first order system of nonlinear differential equations in a class of discontinuous functions. (English summary) **2005b:76096**
Razani, Abdolrahman CJ shock structure for Majda's model. (English summary) **2005k:34056**
— Existence of Chapman-Jouguet detonation for a viscous combustion model. (English summary) **2005a:80009**
Reynolds, C. N. *see* **Truman, Aubrey et al., 2005k:60205**
Rousset, Frédéric *see* **Benzoni-Gavage, S. et al., 2005j:35147**
Ruggeri, Tommaso Some recent mathematical results in mixtures theory of Euler fluids. (English summary) (*see* **2005c:00016**)
— (*with* Simić, Srboljub S.) Non linear wave propagation in binary mixtures of Euler fluids. (English summary) (*see* **2005c:00016**)
— (*with* Simić, Srboljub S.) Nonlinear wave propagation in binary mixtures of Euler fluids. (English summary) **2005f:76087**
— *see also* **Liu, Tai-Ping, 2005f:35202**
Sagaut, P. *see* **Burbeau-Augoula, Anne, 2005k:76072**
Saurel, Richard *see* **Le Métayer, O. et al., 2005m:76136**
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Sharma, V. D. *see* **Srinivasan, Gopala Krishna, 2005a:35195**; **2005h:76070** *and* **Madhumita, G., 2005g:35212**
Sharp, David H. *see* **Dutta, Srabasti et al., 2005g:76091** *and* (**2005g:65009**)
Sharpe, Gary J. (*with* Short, Mark) Shock-induced ignition of thermally sensitive explosives. (English summary) **2005e:80008**
— *see also* **Watt, S. D., 2005d:80008**
Shearer, M. *see* **LeFloch, Philippe G., 2005j:35152**
Shelkovich, V. M. *see* **Danilov, V. G., 2005a:35191**
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Shi, Wei Ping[2] *see* **Zu, Ying Qing**
Shi, Xiaoding *see* **Huang, Feimin et al., 2005m:35317**
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Shyue, Keh-Ming A fluid-mixture type algorithm for barotropic two-fluid flow problems. (English summary) **2005e:76062**

Siklosi, Malin (*with* Kreiss, Gunilla) Elimination of first order errors in time dependent shock calculations. (English summary) (*see* **2005b:00020**)
Simić, Srboljub S. *see* **Ruggeri, Tommaso, 2005f:76087** *and* **(2005c:00016)**
Srinivasan, Gopala Krishna (*with* Sharma, V. D.) Energy dissipated across shocks in weak solutions of conservation laws. (English summary) **2005a:35195**
— (*with* Sharma, V. D.) Implosion-time for converging cylindrical and spherical shells. (English summary) **2005h:76070**
Su, Chau Hsing *see* **Lin, Guan et al., 2005f:76080**
Sujith, R. I. Magnetohydrodynamic shock wave formation: effect of area and density variation. (English summary) **2005m:76193**
Tabak, Esteban G. *see* **Jacobson, Tivon E., 2005f:76015**
Tanaka, Yoshihito[2] *see* **Kawashima, Shuichi, 2005k:35264**
Tang, Hua-zhong (*with* Warnecke, Gerald G.) A Runge-Kutta discontinuous Galerkin method for the Euler equations. (English summary) **2005h:76066**
Tang, Tao *see* **Azarenok, Boris N., 2005k:76086**
Trakhinin, Yu. L. *see* **Blokhin, A. M., 2005c:35228**
Truman, Aubrey (*with* Reynolds, C. N.; Williams, David) Stochastic Burgers equation in *D*-dimensions—a one-dimensional analysis: hot and cool caustics and intermittence of stochastic turbulence. (English summary) **2005k:60205**
Ugai, M. (*with* Kondoh, Koji; Shimizu, Tohru) Spontaneous fast reconnection model in three dimensions. (English summary) **2005m:76204**
Wang, Yun (*with* Dindoruk, Birol; Johansen, Thormod; Orr, Franklin M., Jr.) Four-component gas/oil displacements in one dimension. II. Analytical solutions for constant equilibrium ratios. (English summary) **2005m:76172**
— *see also* **Johansen, Thormod et al., 2005m:76171**
Wang, Zejun *see* **Chen, Shuxing et al., 2005a:35189**
Warnecke, Gerald G. *see* **Tang, Hua-zhong, 2005h:76066**
Watt, S. D. (*with* Sharpe, Gary J.) One-dimensional linear stability of curved detonations. (English summary) **2005d:80008**
Williams, David *see* **Truman, Aubrey et al., 2005k:60205**
Williams, Mark *see* **Guès, Olivier et al., 2005f:35201** *and* **2005k:35273**
Xin, Jianguo *see* **Chevaugeon, Nicolas et al., 2005m:65210**
Yang, Tong *see* **Luo, Tao[2], 2005i:35175**
Yano, Takeru *see* **Kurihara, Eru et al.**
Yin, Huicheng Formation and construction of a shock wave for 3-D compressible Euler equations with the spherical initial data. (English summary) **2005f:35203**
Zakharov, Sergey Viktorovich Nucleation of a shock wave in a Cauchy problem for the Burgers equation. (Russian. Russian summary) **2005b:35187**
Zhang, Fu *see* **Keyfitz, Barbara Lee et al., 2005j:35154**
Zhang, Yin[1] *see* **Dutta, Srabasti et al., (2005g:65009)**
Zhang, Yongmin *see* **Dutta, Srabasti et al., 2005g:76091**
Zhang, Yongqian *see* **Chen, Shuxing et al., 2005a:35189**
Zu, Ying Qing (*with* Shi, Wei Ping[2]) A discrete-velocity model for dam break waves. (Chinese. English and Chinese summaries)
Zumbrun, Kevin *see* **Lyng, Gregory, 2005d:35134**; **Mascia, Corrado, 2005e:35022**; **Guès, Olivier et al., 2005f:35201**; **2005k:35273** *and* **Métivier, Guy, 2005j:35145**

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Items with secondary classifications in 76Mxx

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(Bogdanov, A. V.) *see* **Computational science—ICCS 2003. Part I, 2005c:00014**
(Dongarra, Jack J.) *see* **Computational science—ICCS 2003. Part I, 2005c:00014**
Drikakis, Dimitris (*with* Rider, William) ★ High-resolution methods for incompressible and low-speed flows. **2005k:76001**
Filip, Diana Andrada ★ Numerical methods in the dynamics of the solid-fluid system. **2005e:76014**
(Gorbachev, Yu. E.) *see* **Computational science—ICCS 2003. Part I, 2005c:00014**
(Harlow, Frank) *see* **Drikakis, Dimitris, 2005k:76001**
(Lajos, Tamás) *see* **Modelling fluid flow, 2005g:76002**
(Lee, Ding) *see* **Theoretical and computational acoustics '99**
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Rider, William *see* **Drikakis, Dimitris, 2005k:76001**
(Schilling, Rudolf) *see* **Modelling fluid flow, 2005g:76002**
(Seriani, Géza) *see* **Theoretical and computational acoustics '99**
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(Vad, János) *see* **Modelling fluid flow, 2005g:76002**
(Zomaya, Albert Y.) *see* **Computational science—ICCS 2003. Part I, 2005c:00014**

Items listed otherwise than by author

Budapest ★ Modelling fluid flow. **2005g:76002**
Computational science—ICCS 2003. Part I ★ Computational science—ICCS 2003. Part I. **2005c:00014**
Lecture Notes in Computer Science ★ Computational science—ICCS 2003. Part I. **2005c:00014**
Melbourne ★ Computational science—ICCS 2003. Part I. **2005c:00014**
Modelling fluid flow ★ Modelling fluid flow. **2005g:76002**
St. Petersburg ★ Computational science—ICCS 2003. Part I. **2005c:00014**
Theoretical and computational acoustics '99 ★ Theoretical and computational acoustics '99.
Trieste ★ Theoretical and computational acoustics '99.

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Aboubacar, M. *see* **Webster, M. F. et al., 2005h:76059**
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Anderson, Michael Lindsay *see* **Carey, Graham F. et al., 2005g:76075**
Araki, Takahiro *see* **Kanayama, Hiroshi et al.**
Avilez-Valente, P. (*with* Seabra-Santos, F. J.) A Petrov-Galerkin finite element scheme for the regularized long wave equation. (English summary) **2005k:76071**
Baggag, Abdelkader (*with* Sameh, Ahmed) A nested iterative scheme for indefinite linear systems in particulate flows. (English summary) **2005b:76080**
Bangerth, Wolfgang *see* **Carey, Graham F. et al., 2005g:76075**
Barth, Teri (*with* Bochev, Pavel B.; Gunzburger, Max D.; Shadid, John N.) A taxonomy of consistently stabilized finite element methods for the Stokes problem. (English summary) **2005c:76061**
Barth, William *see* **Carey, Graham F. et al., 2005g:76075**
Bause, Markus (*with* Knabner, Peter) Numerical simulation of contaminant biodegradation by higher order methods and adaptive time stepping. (English summary) **2005f:76063**
Bermúdez de Castro, Alfredo (*with* Ferrín, J. L.; Prieto, Andres) A finite element solution of acoustic propagation in rigid porous media. (English summary) **2005i:76072**
Bochev, Pavel B. (*with* Gunzburger, Max D.) Least-squares finite-element methods for optimization and control problems for the Stokes equations. (English summary) **2005j:76056**
— *see also* **Dohrmann, Clark R., 2005b:76084** *and* **Barth, Teri et al., 2005c:76061**
Boeriu, S. (*with* Bruch, J. C., Jr.) Performance analysis tools applied to a finite element adaptive mesh free boundary seepage parallel algorithm. (English summary)
Bruch, J. C., Jr. *see* **Boeriu, S.**
Bunya, Shintaro (*with* Westerink, Joannes J.; Yoshimura, Shinobu) Discontinuous boundary implementation for the shallow water equations. (English summary)
Burbeau-Augoula, Anne (*with* Sagaut, P.) A dynamic *p*-adaptive discontinuous Galerkin method for viscous flow with shocks. (English summary) **2005k:76072**
— On using discontinuous finite element methods to simulate inertial confinement fusion. (English summary) **2005i:76073**
Çağlar, Atife Weak imposition of boundary conditions for the Navier-Stokes equations. (English summary) **2005j:76057**
Canales, Javier *see* **Hauke, Guillermo et al., 2005h:76054**
Carey, Graham F. (*with* Barth, William; Woods, Juliette A.; Kirk, Benjamin S.; Anderson, Michael Lindsay; Chow, Shue-Sum; Bangerth, Wolfgang) Modelling error and constitutive relations in simulation of flow and transport. (English summary) **2005g:76075**
— *see also* **Le Roux, Daniel Y., 2005k:76078**; **Wang, Xiaowen, 2005m:76119** *and* **2005m:76120**
Castro, R. G. S. *see* **Coutinho, Alvaro L. G. A. et al., 2005b:76083**
Catabriga, Lucia (*with* Coutinho, Alvaro L. G. A.; Franca, Leopoldo P.) Evaluating the LCD algorithm for solving linear systems of equations arising from implicit SUPG formulation of compressible flows. (English summary) **2005b:76081**
Chechel', I. I. *see* **Pal'tsev, B. V., 2005m:76116**
Chen, Tong (*with* Minev, P. D.; Nandakumar, Kumar) A projection scheme for incompressible multiphase flow using adaptive Eulerian grid: 3D validation. (English summary) **2005m:76113**
Chen, Xianqiao *see* **Lin, Ping[1] et al., 2005g:76077**
Choi, Hae-Won (*with* Paraschivoiu, Marius) A faster "hybrid-flux" calculation approach to output bounds for three dimensional problems. (English summary) **2005h:76052**
Chow, Shue-Sum *see* **Carey, Graham F. et al., 2005g:76075**
Codina, Ramon (*with* Soto, Orlando) Approximation of the incompressible Navier-Stokes equations using orthogonal subscale stabilization and pressure segregation on anisotropic finite element meshes. (English summary) **2005b:76082**
Cornaton, Fabien (*with* Perrochet, Pierre; Diersch, Hans-Jörg) A finite element formulation of the outlet gradient boundary condition for convective-diffusive transport problems. (English summary)
Coutinho, Alvaro L. G. A. (*with* Dias, C. M.; Alves, J. L. D.; Landau, Luiz; Loula, Abimael F. D.; Malta, S. M. C.; Castro, R. G. S.; Garcia, E. L. M.) Stabilized methods and post-processing techniques for miscible displacements. (English summary) **2005b:76083**
— *see also* **Catabriga, Lucia et al., 2005b:76081**
Dawson, Clint (*with* Proft, Jennifer) Discontinuous/continuous Galerkin methods for coupling the primitive and wave continuity equations of shallow water. (English summary) **2005h:76053**
Del Pino, Stephane (*with* Pironneau, Olivier) Asymptotic analysis and layer decomposition for the couplex exercise. (English summary) **2005c:76062**
Dias, C. M. *see* **Coutinho, Alvaro L. G. A. et al., 2005b:76083**
Diersch, Hans-Jörg *see* **Cornaton, Fabien et al.**
Dimitrov, Atanas On singularities in the solution of three-dimensional Stokes flow and incompressible elasticity problems with corners. (English summary) **2005a:76098**
Dohrmann, Clark R. (*with* Bochev, Pavel B.) A stabilized finite element method for the Stokes problem based on polynomial pressure projections. (English summary) **2005b:76084**
Dolejší, Vít On the discontinuous Galerkin method for the numerical solution of the Navier-Stokes equations. (English summary) **2005f:76064**
— (*with* Feistauer, Miloslav) A semi-implicit discontinuous Galerkin finite element method for the numerical solution of inviscid compressible flow. (English summary) **2005b:76085**
Dong, Suchuan (*with* Liu, Dong; Maxey, Martin R.; Karniadakis, George Em) Spectral distributed Lagrange multiplier method: algorithm and benchmark tests. (English summary) **2005a:76099**
Duarte, Fabián (*with* Gormaz, Raúl; Natesan, Srinivasan) Arbitrary Lagrangian-Eulerian method for Navier-Stokes equations with moving boundaries. (English summary) **2005f:76065**
Dunca, Adrian (*with* John, Volker) Finite element error analysis of space averaged flow fields defined by a differential filter. (English summary) **2005a:76100**
Emmrich, Etienne Error of the two-step BDF for the incompressible Navier-Stokes problem. (English summary) **2005g:76076**
Ervin, Vincent J. (*with* Miles, William W.) Approximation of time-dependent, multi-component, viscoelastic fluid flow. (English summary) **2005j:76058**
— (*with* Ntasin, Louis N.) A posteriori error estimation and adaptive computation of

viscoelastic fluid flow. (English summary) **2005k:76073**

Ewing, Richard E. (*with* Lin, Yan Ping; Wang, Jun Ping[1]; Zhang, Shu Hua[3]) L^∞-error estimates and superconvergence in maximum norm of mixed finite element methods for non-Fickian flows in porous media. (English summary) **2005k:76074**

Feistauer, Miloslav *see* **Dolejší, Vít, 2005b:76085** *and* **Sváček, Petr, (2005j:65003)**

Fernandez Merodo, José Antonio *see* **Quecedo, Manuel et al., 2005m:76118** *and* **Pastor, Manuel, (2005b:74003)**

Ferrín, J. L. *see* **Bermúdez de Castro, Alfredo et al., 2005i:76072**

Flaherty, Joseph E. *see* **Remacle, Jean-François et al., 2005h:76057**

Franca, Leopoldo P. *see* **Catabriga, Lucia et al., 2005b:76081**

Franceschini, Flávia (*with* Frey, Sérgio) Finite element approximation for single-phase multicomponent flows. (English summary) **2005f:76066**

Frey, Sérgio *see* **Franceschini, Flávia, 2005f:76066**

Fujima, Shoichi (*with* Ohmori, Katsushi) Benchmark problems for numerical schemes to passively transported interface. (English summary)

Ganesan, Sashikumaar (*with* John, Volker) Pressure separation—a technique for improving the velocity error in finite element discretisations of the Navier-Stokes equations. (English summary) **2005k:76075**

Gao, Shao-qin Least-squares mixed finite element methods for the incompressible magnetohydrodynamic equations. (English summary) **2005m:76114**

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Gormaz, Raúl *see* **Duarte, Fabián et al., 2005f:76065**

Gravemeier, Volker (*with* Wall, Wolfgang A.; Ramm, Ekkehard) A three-level finite element method for the instationary incompressible Navier-Stokes equations. (English summary) **2005b:76086**

Gritzki, Ralf *see* **Knopp, Tobias et al., 2005m:76115**

Guermond, Jean-Luc (*with* Shen, Jie[1]) A new class of truly consistent splitting schemes for incompressible flows. (English summary) **2005k:76076**

— Nonstandard nonconforming approximation of the Stokes problem. I. Periodic boundary conditions. (English summary) **2005i:76074**

Gunzburger, Max D. *see* **Barth, Teri et al., 2005c:76061** *and* **Bochev, Pavel B., 2005j:76056**

Han, Young Han *see* **Kim, Joon Hyun et al., (2005i:65006)**

Hartmann, Ralf (*with* Houston, Paul) Adaptive discontinuous Galerkin finite element methods with interior penalty for the compressible Navier-Stokes equations. (English summary) (*see* **2005j:65003**)

Hauke, Guillermo (*with* Landaberea, Aitor; Garmendia, Iñaki; Canales, Javier) A segregated method for compressible flow computation. I. Isothermal compressible flows. (English summary) **2005h:76054**

Hernández, Erwin (*with* Rodríguez, Rodolfo) Finite element approximation of spectral acoustic problems on curved domains. (English summary) **2005c:76063**

Herreros, Maria Isabel *see* **Quecedo, Manuel et al., 2005m:76118**

Hoteit, H. (*with* Ackerer, Ph.; Mosé, R.) Nuclear waste disposal simulations: Couplex test cases. (English summary) **2005e:76060**

Hou, Thomas Yizhao Multiscale modelling and computation of fluid flow. (English summary) **2005j:76059**

Houston, Paul *see* **Hartmann, Ralf, (2005j:65003)**

Hron, Jaroslav (*with* Ouazzi, Abderrahim; Turek, Stefan) A computational comparison of two FEM solvers for nonlinear incompressible flow. (English summary) (*see* **2005a:65001**)

Hughes, Thomas J. R. (*with* Wells, Garth N.) Conservation properties for the Galerkin and stabilised forms of the advection-diffusion and incompressible Navier-Stokes equations. (English summary) **2005j:76060**

Jimack, Peter K. *see* **Walkley, M. A. et al., 2005j:76063**

John, Volker (*with* Kaya, Songul) A finite element variational multiscale method for the Navier-Stokes equations. (English summary) **2005k:76077**

— *see also* **Dunca, Adrian, 2005a:76100** *and* **Ganesan, Sashikumaar, 2005k:76075**

Juárez V., L. Héctor (*with* Glowinski, Roland) Numerical simulation of the motion of pendula in an incompressible viscous fluid by Lagrange multiplier/fictitious domain methods. (*see* **2005f:65003**)

Kanayama, Hiroshi (*with* Tagami, Daisuke; Araki, Takahiro; Kume, Hirokazu) A stabilization technique for steady flow problems. (English summary)

Karniadakis, George Em *see* **Dong, Suchuan et al., 2005a:76099**

Kaya, Songul *see* **John, Volker, 2005k:76077**

Kelmanson, M. A. *see* **Walkley, M. A. et al., 2005j:76063**

Kim, Joon Hyun (*with* Stenstrom, Michael K.; Han, Young Han) Study of immiscible fluid flow and mass transformations in subsurface basin using multidimensional finite element code. (English summary) (*see* **2005i:65006**)

Kirk, Benjamin S. *see* **Carey, Graham F. et al., 2005g:76075**

Knabner, Peter *see* **Bause, Markus, 2005f:76063**

Knobloch, Petr On the application of the p_1^{mod} element to incompressible flow problems. (English summary) **2005a:76101**

Knopp, Tobias (*with* Lube, Gert; Gritzki, Ralf; Rösler, Markus) A near-wall strategy for buoyancy-affected turbulent flows using stabilized FEM with applications to indoor air flow simulation. (English summary) **2005m:76115**

Küçükarslan, Semih An exact truncation boundary condition for incompressible-unbounded infinite fluid domains. (English summary) **2005h:76055**

Kume, Hirokazu *see* **Kanayama, Hiroshi et al.**

Kuzmin, Dmitri (*with* Möller, Matthias; Turek, Stefan) High-resolution FEM-FCT schemes for multidimensional conservation laws. (English summary) **2005f:76067**

Landaberea, Aitor *see* **Hauke, Guillermo et al., 2005h:76054**

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Lavrova, Olga (*with* Matthies, Gunar; Mitkova, Teodora; Polevikov, Viktor K.; Tobiska, Lutz) Finite element methods for coupled problems in ferrohydrodynamics. (English summary) (*see* **2005a:65001**)

Le Roux, Daniel Y. (*with* Carey, Graham F.) Stability/dispersion analysis of the discontinuous Galerkin linearized shallow-water system. (English summary) **2005k:76078**

Li, Xiangrong *see* **Remacle, Jean-François et al., 2005h:76057**

Liakos, A. Finite-element approximation of viscoelastic fluid flow with slip boundary condition. (English summary) **2005k:76079**

Lin, Ping[1] (*with* Chen, Xianqiao; Ong, Ming Tze) Finite element methods based on a new formulation for the non-stationary incompressible Navier-Stokes equations. (English summary) **2005g:76077**

Lin, Yan Ping *see* **Ewing, Richard E. et al., 2005k:76074**

Liu, Ci Qun *see* **Wang, Ji Wen**

Liu, Dong *see* **Dong, Suchuan et al., 2005a:76099**

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Lube, Gert *see* **Rapin, Gerd, 2005c:76064** *and* **Knopp, Tobias et al., 2005m:76115**

Luo, Zhen Dong (*with* Zhu, Jiang[3]; Zeng, Qing Cun; Xie, Zheng Hui) Mixed finite element methods for the shallow water equations including current and silt sedimentation. I. The continuous-time case. (Chinese. English and Chinese summaries) **2005a:76102**

— (*with* Zhu, Jiang[3]; Zeng, Qing Cun; Xie, Zheng Hui) Mixed finite element methods for the shallow water equations including current and silt sedimentation. II. The discrete-time case along characteristics. (Chinese. English and Chinese summaries) **2005a:76103**

Ma, Q. W. Meshless local Petrov-Galerkin method for two-dimensional nonlinear water wave problems. (English summary)

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Maisse, E. (*with* Pousin, Jérôme) Finite element approximation of mass transfer in a porous medium with non equilibrium phase change. (English summary) **2005g:76078**

Malta, S. M. C. *see* **Coutinho, Alvaro L. G. A. et al., 2005b:76083**

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Matthies, Gunar *see* **Lavrova, Olga et al., (2005a:65001)**

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Natesan, Srinivasan *see* **Duarte, Fabián et al., 2005f:76065**

Nesliturk, A. I. (*with* Tezer-Sezgin, M.) The finite element method for MHD flow at high Hartmann numbers. (English summary) **2005j:76061**

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Pal′tsev, B. V. (*with* Chechel′, I. I.) Increasing the rate of convergence of bilinear finite-element realizations of iterative methods by splitting boundary conditions for Stokes-type systems for large values of a singular parameter. (Russian. Russian summary) **2005m:76116**

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Park, Eun-Jae Mixed finite element methods for generalized Forchheimer flow in porous media. (English summary) **2005i:76075**

Pastor, Manuel (*with* Fernandez Merodo, José Antonio) Transient problems of parabolic type. (*see* **2005b:74003**)

— *see also* **Quecedo, Manuel et al., 2005m:76118**

Paulino, Rivânia H. (*with* Rochinha, Fernando Alves) A higher-order velocity post-processing for the Helmholtz equation. (English summary) **2005h:76056**

Perotto, Simona Anisotropic mesh adaption: application to computational fluid dynamics. (English and Italian summaries) **2005j:76062**

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Ponta, F. L. The kinematic Laplacian equation method. (English summary) **2005m:76117**

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Rapin, Gerd (*with* Lube, Gert) A stabilized scheme for the Lagrange multiplier method for advection-diffusion equations. (English summary) **2005c:76064**

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Remacle, Jean-François (*with* Li, Xiangrong; Shephard, Mark S.; Flaherty, Joseph E.) Anisotropic adaptive simulation of transient flows using discontinuous Galerkin methods. (English summary) **2005h:76057**

Ren, Chun Feng (*with* Ma, Yi Chen) Residual a posteriori error estimate two-grid methods for the steady Navier-Stokes equation with stream function form. (Chinese. English and Chinese summaries) **2005c:76065**

Rivière, Béatrice Analysis of a multi-numerics/multi-physics problem. (English summary) (*see* **2005j:65003**)

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Tsai, Chiung-Chiou (*with* Yang, Suh-Yuh) Error analysis of the L^2 least-squares finite element method for incompressible inviscid rotational flows. (English summary) **2005g:76079**
Tu, Shuangzhang (*with* Aliabadi, Shahrouz) A slope limiting procedure in discontinuous Galerkin finite element method for gasdynamics applications. (English summary) **2005h:76058**
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— (*with* Zabaras, Nicholas) Using stochastic analysis to capture unstable equilibrium in natural convection. (English summary) **2005k:76080**
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Wang, Ji Wen (*with* Liu, Ci Qun) Local discontinuous Galerkin method for radial porous flow with dispersion and adsorption. (Chinese. English and Chinese summaries)
Wang, Jun Ping[1] *see* **Ewing, Richard E. et al., 2005k:76074**
Wang, Xiaowen (*with* Carey, Graham F.) On Marangoni effects in a heated thin fluid layer with a monolayer surfactant. I. Model development and stability analysis. (English summary) **2005m:76119**
— (*with* Carey, Graham F.) On Marangoni effects in a heated fluid layer with a monolayer surfactant. II. Finite element formulation and numerical studies. (English summary) **2005m:76120**
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Zhang, Qinfen *see* **Quecedo, Manuel et al., 2005m:76118**
Zhang, Shu Hua[3] *see* **Ewing, Richard E. et al., 2005k:76074**
Zhang, Yi[14] Simulation of open channel network flows using finite element approach. (English summary)
Zhu, Jiang[3] *see* **Luo, Zhen Dong et al., 2005a:76102** *and* **2005a:76103**

Items with secondary classifications in 76M10

Aarnes, Jørg E. On the use of a mixed multiscale finite element method for greater flexibility and increased speed or improved accuracy in reservoir simulation. (English summary) **2005g:76112**
Abboud, T. (*with* Salaün, M.; Salmon, Stéphanie) Coupling harmonic functions–finite elements for solving the stream function–vorticity Stokes problem. (English summary) **2005h:65203**
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Abreu, Eduardo (*with* Furtado, Frederico; Pereira, Felipe) On the numerical simulation of three-phase reservoir transport problems. (English summary) **2005k:76126**
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Agnon, Yehuda (*with* Stokes, Y. M.) An inverse modelling technique for glass forming by gravity sagging. (English summary)
Akhmetzyanov, A. V. (*with* Kulibanov, V. N.) Unconventional mathematical models of fluid filtration in porous media. (Russian. Russian summary) **2005d:76040**
Amara, Mohamed (*with* Capatina-Papaghiuc, Daniela; Chacón-Vera, Eliseo; Trujillo, David) Vorticity-velocity-pressure formulation for Navier-Stokes equations. (English summary) **2005a:76039**
— (*with* Capatina-Papaghiuc, Daniela; Denel, B.; Terpolilli, P.) Numerical modelling of flow with heat transfer in petroleum reservoirs. (English summary) **2005i:76100**
Anderson, Anthony (*with* Zheng, Xiaoming; Cristini, Vittorio) Adaptive unstructured volume remeshing. I. The method. (English summary) **2005m:76130**
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Argyriadi, K. (*with* Serifi, K.; Bontozoglou, V.) Nonlinear dynamics of inclined films under low-frequency forcing. (English summary) **2005b:76014**
Arntzen, Ole Jakob Higher-order terms in the capillary limit approximation of viscous-capillary flow. (English summary) **2005c:76082**
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Baer, T. A. *see* **Noble, D. R. et al., (2005b:65003)**
Baines, Michael (*with* Hubbard, M. E.; Jimack, Peter K.) A moving mesh finite element algorithm for fluid flow problems with moving boundaries. (English summary) **2005m:65205**
— *see also* **Wells, B. V. et al., 2005m:65227**
Barrett, John W.[1] (*with* Garcke, Harald; Nürnberg, Robert) Finite element approximation of surfactant spreading on a thin film. (English summary) **2005a:65098**
Basdevant, C. *see* **Couplet, M. et al., 2005k:76094**
Becker, Roland (*with* Rannacher, Rolf) Error control for model reduction by discretization in optimal control of flows. **2005e:76039**
— (*with* Braack, Malte) A two-level stabilization scheme for the Navier-Stokes equations (English summary) **2005k:65236**
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Bensaada, Mohammed (*with* Esselaoui, Driss) Numerical analysis of Euler-SUPG modified method for transient viscoelastic flow. (English summary) **2005k:65197**
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Bermúdez de Castro, Alfredo (*with* Gamallo, Pablo; Rodríguez, Rodolfo) Finite element methods in local active control of sound. (English summary) **2005f:49005**
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— (*with* Verfürth, Rüdiger) A posteriori error analysis of the fully discretized time-dependent Stokes equations. (English summary) **2005g:65131**
— (*with* Chacón-Rebollo, Tomás; Gómez Mármol, M.; Lewandowski, Roger; Murat, François) A model for two coupled turbulent fluids. III. Numerical approximation by finite elements. (English summary) **2005g:76074**
Bessems, D. *see* **van de Vosse, F. N. et al., 2005b:76147**
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Bochev, Pavel B. (*with* Gunzburger, Max D.; Shadid, John N.) On inf-sup stabilized finite element methods for transient problems. (English summary) **2005e:65128**
— (*with* Gunzburger, Max D.; Shadid, John N.) Stability of the SUPG finite element method for transient advection-diffusion problems. (English summary) **2005a:65100**
— (*with* Gunzburger, Max D.) An absolutely stable pressure-Poisson stabilized finite element method for the Stokes equations. (English summary) **2005k:65223**
Bolton, P. (*with* Thatcher, R. W.) On mass conservation in least-squares methods. (English summary) **2005h:65207**
Boncuț, Mioara Finite element approximation of the Navier-Stokes equation. (English summary) **2005j:65136**
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Bonnet-Ben Dhia, Anne-Sophie (*with* Legendre, Guillaume; Lunéville, Eric) Regularization of the time-harmonic Galbrun's equations. (*see* **2005b:00020**)
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— *see also* **Becker, Roland, 2005k:65236**
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Burda, Pavel (*with* Novotný, Jaroslav; Sousedík, Bedřich; Šístek, Jakub) Finite element mesh adjusted to singularities applied to axisymmetric and plane flow. (English summary) (*see* **2005j:65003**)
Burman, Erik (*with* Hansbo, Peter) The edge stabilization method for finite elements in CFD. (English summary) (*see* **2005j:65003**)
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Caraeni, D. (*with* Fuchs, László[2]) Compact third-order multidimensional upwind discretization for steady and unsteady flow simulations. (English summary) **2005k:76093**
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Chacón-Rebollo, Tomás (*with* Rodríguez Gómez, David) Numerical investigation of the regularity of the pressure for the primitive equations of the ocean. (English summary)

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— (*with* Rodríguez Gómez, David) A stabilized space-time discretization for the primitive equations in oceanography. (English summary) **2005g:86005**
— *see also* **Bernardi, Christine et al., 2005g:76074**
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Charina, Maria (*with* Meir, A. J.; Schmidt, Paul Günter) Mixed velocity, stress, current, and potential boundary conditions for stationary MHD flow. (English summary) **2005f:76110**
Chen, Hongsen Interior superconvergence of finite element solutions for Stokes problems by local L^2 projections. (English summary) **2005e:65182**
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Di, Yana (*with* Li, Ruo; Tang, Tao; Zhang, Ping Wen) Moving mesh finite element methods for the incompressible Navier-Stokes equations. (English summary) **2005j:65107**
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Dolejší, Vít Discontinuous Galerkin finite element method for the numerical solution of viscous compressible flows. (English summary) (*see* **2005j:65003**)
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Elman, Howard C. (*with* Ernst, Oliver G.; O'Leary, Dianne P.; Stewart, Michael) Efficient iterative algorithms for the stochastic finite element method with application to acoustic scattering. (English summary) **2005k:65015**
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Ern, Alexandre (*with* Guermond, Jean-Luc) ★ Theory and practice of finite elements. **2005d:65002**
— *see also* **Bongiovanni, Emmanuel et al., 2005a:76135** *and* **Braack, Malte, 2005j:65137**
Ernst, Oliver G. *see* **Elman, Howard C. et al., 2005k:65015**
Ervin, Vincent J. (*with* Miles, William W.) Approximation of time-dependent viscoelastic fluid flow: SUPG approximation. (English summary) **2005e:65144**
— (*with* Heuer, Norbert) Approximation of time-dependent, viscoelastic fluid flow: Crank-Nicolson, finite element approximation. (English summary) **2005a:65101**
Eskilsson, Claes (*with* Sherwin, Spencer J.; Bergdahl, Lars) Shallow water wave modelling using a high-order discontinuous Galerkin method. (English summary) (*see* **2005b:00020**)
Esselaoui, Driss *see* **Bensaada, Mohammed et al., 2005i:65139** *and* **2005k:65197**
Farhloul, Mohamed (*with* Nicaise, Serge; Paquet, Luc) A posteriori error estimation for the dual mixed finite element method of the Stokes problem. (English and French summaries)
— (*with* Zine, A. M.) A mixed finite element method for a quasi-Newtonian fluid flow. (English summary) **2005h:65208**
Feistauer, Miloslav *see* **Dolejší, Vít et al., 2005m:65211**
Feng, Xiaobing (*with* Xie, Zheng Hui) A priori error estimates for a coupled finite element method and mixed finite element method for a fluid-solid interaction problem. (English summary) **2005i:74021**
— (*with* Prohl, Andreas) Analysis of a fully discrete finite element method for the phase field model and approximation of its sharp interface limits. (English summary) **2005b:74115**
Fernandes, J. L. M. *see* **Fortes, C. J. E. M. et al., (2005b:00020)**
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Flaherty, Joseph E. *see* **Chevaugeon, Nicolas et al., 2005m:65210**
Formaggia, Luca (*with* Micheletti, Stefano; Perotto, Simona) Anisotropic mesh adaption in computational fluid dynamics: application to the advection-diffusion-reaction and the Stokes problems. (English summary) **2005h:65191**
— (*with* Nobile, Fabio) Stability analysis of second-order time accurate schemes for ALE-FEM. (English summary) **2005d:65135**
Fortes, C. J. E. M. (*with* Fernandes, J. L. M.; Vaz dos Santos, M. A.) A finite element method for the solution of a time-dependent nonlinear wave propagation equation. (*see* **2005b:00020**)
Fuchs, László[2] *see* **Caraeni, D., 2005k:76093**
Fujima, Shoichi *see* **Ohmori, Katsushi et al., 2005c:76031**
Fujita, Yasuhiro *see* **Ohmori, Katsushi et al., 2005c:76031**
Funk, Martin[2] *see* **Picasso, Marco et al., 2005g:86026**
Furtado, Frederico *see* **Abreu, Eduardo et al., 2005k:76126**
Gamallo, Pablo *see* **Bermúdez de Castro, Alfredo et al., 2005f:49005**
Garcke, Harald *see* **Barrett, John W.[1] et al., 2005a:65098**
Gelhard, Tobias (*with* Lube, Gert; Ol'shanskiĭ, M. A.; Starcke, Jan-Hendrik) Stabilized finite element schemes with LBB-stable elements for incompressible flows. (English summary) **2005j:65140**
Girault, Vivette *see* **Bernardi, Christine et al., 2005d:65202**
Givoli, Dan (*with* Patlashenko, Igor) Dirichlet-to-Neumann boundary condition for time-dependent dispersive waves in three-dimensional guides. (English summary) **2005g:65143**
Glaister, P. *see* **Wells, B. V. et al., 2005m:65227**
Glinsky-Olivier, Nathalie *see* **Bongiovanni, Emmanuel et al., 2005a:76135**
Gmati, N. *see* **Bonnet-Ben Dhia, Anne-Sophie et al., 2005f:76090**
Gómez Mármol, M. *see* **Bernardi, Christine et al., 2005g:76074**
Götz, Thomas (*with* Parhusip, H. A.) On an asymptotic expansion for Carreau fluids in porous media. (English summary) **2005m:76169**
Gu, Haiming (*with* Wu, Xiao Nan) Alternating-direction iterative technique for mixed finite element methods for Stokes equations. (English summary)
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Gunther, T. W. M. *see* **van de Vosse, F. N. et al., 2005b:76147**
Gunzburger, Max D. The inf-sup condition in mixed finite element methods with application to the Stokes system. (*see* **2005h:65004**)
— *see also* **Bochev, Pavel B. et al., 2005a:65100**; **2005e:65128** *and* **2005k:65223**
Gushchin, O. A. Solution of basic problems of shallow-sea dynamics by the finite element method. (Russian. English and Russian summaries) (*see* **2005f:00008**)
Han, Hou-de (*with* Wen, Xin[2]) The artificial boundary conditions for numerical simulations of the complex amplitude in a coupled bay-river system. (English summary) **2005a:86004**
Han, Weimin *see* **Bostan, Viorel et al., 2005i:65167**
Hansbo, Peter (*with* Hermansson, Joakim; Svedberg, Thomas) Nitsche's method combined with space-time finite elements for ALE fluid-structure interaction problems. (English summary) **2005c:74023**
— *see also* **Burman, Erik, 2005d:65186** *and* **(2005j:65003)**
de Hart, J. *see* **van de Vosse, F. N. et al., 2005b:76147**
Hasler, Urs (*with* Schneebeli, Anna; Schötzau, Dominik) Mixed finite element approximation of incompressible MHD problems based on weighted regularization. (English summary) **2005d:65209**
Hauke, Guillermo (*with* Doweidar, M. H.) Fourier analysis of semi-discrete and space-time stabilized methods for the advective-diffusive-reactive equation. I. SUPG. (English summary) **2005j:65091**
He, Yinnian (*with* Li, Kai Tai) Fully discrete postprocessing Galerkin method for the Navier-Stokes equations. (English summary) **2005d:35201**
— (*with* Miao, Huanling; Mattheij, Robert M. M.; Chen, Zhangxin) Numerical analysis of a modified finite element nonlinear Galerkin method. (English summary) **2005m:65188**
Hecht, Frédéric *see* **Bernardi, Christine et al., 2005d:65202**
Heinkenschloss, Matthias *see* **Abraham, Feby et al., 2005g:49056**
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Hermansson, Joakim *see* **Hansbo, Peter et al., 2005c:74023**
Heuer, Norbert *see* **Ervin, Vincent J., 2005a:65101**
Hinze, Michael *see* **Deckelnick, Klaus, 2005c:76042**
Hoffman, Johan (*with* Johnson, Claes) Adaptive finite element methods for turbulent flow. (English summary) (*see* **2005j:65003**)
Hoteit, H. (*with* Ackerer, Ph.; Mosé, R.; Erhel, J.; Philippe, B.) New two-dimensional slope limiters for discontinuous Galerkin methods on arbitrary meshes. (English summary) **2005g:65145**
Houston, Paul (*with* Schötzau, Dominik; Wihler, Thomas P.) Mixed *hp*-discontinuous Galerkin finite element methods for the Stokes problem in polygons. (English summary) (*see* **2005j:65003**)
Houzeaux, G. (*with* Codina, Ramon) ★ A geometrical domain decomposition method in computational fluid dynamics. (English and Spanish summaries) **2005b:76098**
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Hubbard, M. E. *see* **Baines, Michael et al., 2005m:65205**
Hwang, Feng-Nan (*with* Cai, Xiao-Chuan) A parallel nonlinear additive Schwarz preconditioned inexact Newton algorithm for incompressible Navier-Stokes equations. (English summary) **2005k:76096**
Idelsohn, S. R. (*with* Oñate, Eugenio; Del Pin, Facundo) The particle finite element method: a powerful tool to solve incompressible flows with free-surfaces and breaking waves. (English summary) **2005g:76094**
Itoh, Shoji *see* **Katamine, Eiji et al.**
Jayantha, Pasdunkorale A. (*with* Turner, Ian W.) A second order control-volume finite-element least-squares strategy for simulating diffusion in strongly anisotropic media.

(English summary) **2005j:74056**

Jiang, Chunbo (*with* Li, Kai; Liu, Ning[1]; Zhang, Qinghai) Implicit parallel FEM analysis of shallow water equations. (English summary)

Jimack, Peter K. *see* **Baines, Michael et al., 2005m:65205** *and* **Schneider, René, 2005m:65250**

Jin, Jicheng *see* **Wu, Xiao Nan, 2005i:65193**

Johnson, Claes *see* **Hoffman, Johan, (2005j:65003)**

Juanes, Ruben A variational multiscale finite element method for multiphase flow in porous media. (English summary) **2005j:76084**

Jung, Chang-Yeol Numerical approximation of two-dimensional convection-diffusion equations with boundary layers. (English summary) **2005k:65252**

Kainz, Alexander *see* **Synka, Josef et al.**

Kanschat, Guido Block preconditioners for LDG discretizations of linear incompressible flow problems. (English summary) **2005m:65248**

— *see also* **Cockburn, Bernardo et al.**

Karniadakis, George Em *see* **Wan, Xiaoliang et al., 2005i:76089**

Katamine, Eiji (*with* Azegami, Hideyuki; Tsubata, Tomoyuki; Itoh, Shoji) Solution to shape optimization problems of viscous flow fields. (English summary)

Kawahara, Mutsuto Editorial [12th International Conference on Finite Element Methods in Fluids].

— Editorial [Special issue: finite elements].

— *see also* **Yagi, Hiroko, 2005m:76075**

Kharrat, Nizar (*with* Mghazli, Zoubida) Residual error estimators for the time-dependent Stokes equations. (English and French summaries)

Kilian, Susanne (*with* Turek, Stefan) ★ The virtual album of fluid motion. **2005a:76001**

Kim, Soohyun *see* **Lee, Hyung-Chun, 2005g:65174**

Knabner, Peter *see* **Schneid, Eckhard et al., 2005g:65150**; **Radu, Adrian Florin et al., 2005m:65189** *and* **Pop, Iuliu Sorin et al.**

Kopteva, N. V. How accurate is the streamline-diffusion FEM inside characteristic (boundary and interior) layers? (English summary) **2005h:65213**

Kozel, Karel (*with* Louda, Petr; Sváček, Petr) Numerical solution of flow in backward facing step. (English summary) (*see* **2005j:65003**)

Krukier, Lev A. (*with* Lapshina, O. A.) Numerical comparison of variational methods for solving systems of linear algebraic equations obtained in the finite-difference approximation of the convection-diffusion equation. (Russian. English and Russian summaries) **2005d:65195**

Kulibanov, V. N. *see* **Akhmetzyanov, A. V., 2005d:76040**

Kumar, Bipin *see* **Ratish Kumar, B. V., 2005m:65101**

Kumar, V. V. K. Srinivas (*with* Ratish Kumar, B. V.; Das, P. C.) A new class of stabilized mesh-free finite elements for the approximation of the Stokes problem. (English summary) **2005g:65170**

Kunert, Gerd *see* **Creusé, Emmanuel et al., 2005g:65159**

Kuzin, V. I. (*with* Usova, N. Yu.) The Petrov-Galerkin method for convective-dominated non-stationary flow problems. (English summary) (*see* **2005i:65006**)

Kuzmin, Dmitri (*with* Turek, Stefan) Finite element discretization and iterative solution techniques for multiphase flows in gas-liquid reactors. **2005h:65166**

— (*with* Turek, Stefan) High-resolution FEM-TVD schemes based on a fully multidimensional flux limiter. (English summary) **2005d:65167**

— *see also* **Möller, Matthias et al., 2005j:65115**; **2005k:65205** *and* **(2005j:65003)**

Kweon, Jae Ryong A posteriori error estimates for a compressible Stokes system. (English summary) **2005k:65229**

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Lee, Hyesuk A multigrid method for viscoelastic fluid flow. (English summary) **2005c:65116**

Lee, Hyung-Chun (*with* Kim, Soohyun) Finite element approximation and computations of optimal Dirichlet boundary control problems for the Boussinesq equations. (English summary) **2005g:65174**

Lee, Pjek Hwee *see* **Sheu, Tony W. H., 2005a:65107**

Legendre, Guillaume *see* **Bonnet-Ben Dhia, Anne-Sophie et al., (2005b:00020)**

Lehoucq, Richard B. *see* **Burroughs, Elizabeth A. et al.**

Lewandowski, Roger *see* **Bernardi, Christine et al., 2005g:76074**

Leyland, Pénélope (*with* Blom, Frederic; Carstens, Volker; Tefy, Tiana) Fully coupled fluid-structure algorithms for aeroelasticity and forced vibration induced flutter: applications to a compressor cascade. (*see* **2005b:74043**)

Li, Ji Chun Optimal uniform convergence analysis for a singularly perturbed quasilinear reaction-diffusion problem. (English summary) **2005h:30012**

Li, Jing-Rebecca A dual-primal FETI method for solving Stokes/Navier-Stokes equations. (*see* **2005f:65003**)

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Li, Kai Tai *see* **He, Yinnian, 2005d:35201**

Li, Ruo *see* **Di, Yana et al., 2005j:65107**

Li, Xiangrong *see* **Chevaugeon, Nicolas et al., 2005m:65210**

Liakos, A. Discretization of the Navier-Stokes equations with slip boundary condition. II. (English summary) **2005h:65216**

Lin, Jia Fu (*with* Lin, Qun[1]) Superconvergence of a mixed finite element approximation for a Stokes problem. (Chinese. English and Chinese summaries) **2005k:65255**

— (*with* Lin, Qun[1]) Extrapolation of the Hood-Taylor elements for the Stokes problem. (English summary) **2005m:65274**

Lin, P. T. *see* **Shadid, John N. et al.**

Lin, Qun[1] *see* **Lin, Jia Fu, 2005k:65255** *and* **2005m:65274**

Liu, Biyue On a finite element method for three-dimensional unsteady compressible viscous flows. (English summary) **2005b:65106**

Liu, Gao-Lian Dual variational principles for the free-boundary problem of cavitated bearing lubrication. (English summary) **2005h:76025**

Liu, Ning[1] *see* **Jiang, Chunbo et al.**

Liu, Tang Defect correction for non-Fickian flows in porous media. (Chinese. English and Chinese summaries)

Liu, Wing Kam *see* **Liu, Yaling et al., 2005h:92011**

Liu, Yaling (*with* Zhang, Lucy; Wang, Xiaodong; Liu, Wing Kam) Coupling of Navier-Stokes equations with protein molecular dynamics and its application to hemodynamics. (English summary) **2005h:92011**

Lo, D. C. *see* **Murugesan, Krishnan et al.**

Louda, Petr *see* **Kozel, Karel et al., (2005j:65003)**

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Lukáčová-Medvid'ová, M. (*with* Saibertová, Jitka; Warnecke, Gerald G.; Zahaykah, Yousef) On evolution Galerkin methods for the Maxwell and the linearized Euler equations. (English summary) **2005h:65168**

Lunéville, Eric *see* **Bonnet-Ben Dhia, Anne-Sophie et al., (2005b:00020)**

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Magolu monga Made, M. Performance of parallel incomplete LDL[t] factorizations for solving acoustic wave propagation problems from industry. (English summary) **2005h:65049**

Magoulès, Frédéric (*with* Roux, François-Xavier; Salmon, Stéphanie) Optimal discrete transmission conditions for a nonoverlapping domain decomposition method for the Helmholtz equation. (English summary) **2005c:76079**

Maharavo Randrianarivony, H. Anisotropic finite elements for the Stokes problem: a posteriori error estimator and adaptive mesh. (English summary) **2005f:65155**

Mandel, Jan Iterative substructuring with Lagrange multipliers for coupled fluid-solid scattering. (*see* **2005f:65003**)

Mangiavacchi, Norberto *see* **de Sousa, F. S.**

Manouzi, Hassan (*with* Theting, Thomas Gorm) Mixed finite element approximation for the stochastic pressure equation of Wick type. (English summary) **2005e:60150**

Marheineke, Nicole Modified FEM for fibre-fluid interactions. (English summary) *see* **2005a:00022**)

Maringer, Robert *see* **Synka, Josef et al.**

Marini, L. D. *see* **Brezzi, F. et al., 2005m:65260**

Márquez Gentil, Antonio (*with* Meddahi, Salim; Selgas, Virginia) A new BEM-FEM coupling strategy for two-dimensional fluid-solid interaction problems. (English summary) **2005b:74041**

— *see also* **Meddahi, Salim et al., 2005b:65129** *and* **(2005b:00020)**

Maryška, Jiří (*with* Severýn, Otto; Vohralík, Martin) Numerical simulation of fracture flow with a mixed-hybrid FEM stochastic discrete fracture network model. (English summary) **2005i:76106**

Matsui, Hiroaki (*with* Okuda, Hiroshi) Development of a simulation code for MHD dynamo processes using the GeoFEM platform. (English summary)

Mattheij, Robert M. M. *see* **He, Yinnian et al., 2005m:65188**

Mazaheri-Body, Kiumars *see* **Darbandi, Masoud et al., (2005j:65003)**

Mazzia, Annamaria (*with* Pini, Giorgio; Putti, Mario; Sartoretto, Flavio) Comparison of 3D flow fields arising in mixed and standard unstructured finite elements. (English summary) (*see* **2005c:00014**)

— (*with* Putti, Mario) High order Godunov mixed methods on tetrahedral meshes for density driven flow simulations in porous media. (English summary) **2005k:76084**

Meddahi, Salim (*with* Márquez Gentil, Antonio; Selgas, Virginia) A coupling of spectral and finite elements for an acoustic scattering problem. (*see* **2005b:00020**)

— (*with* Márquez Gentil, Antonio; Selgas, Virginia) Computing acoustic waves in an inhomogeneous medium of the plane by a coupling of spectral and finite elements (English summary) **2005b:65129**

— *see also* **Márquez Gentil, Antonio et al., 2005b:74041**

Meir, A. J. *see* **Charina, Maria et al., 2005f:76110**

Mghazli, Zoubida *see* **Kharrat, Nizar**

Miao, Huanling *see* **He, Yinnian et al., 2005m:65188**

Michaelis, B. (*with* Rogg, B.) FEM-simulation of laminar flame propagation. I. Two-dimensional flames. (English summary) **2005a:80008**

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Miles, William W. *see* **Ervin, Vincent J., 2005e:65144**

Mira, Pablo *see* **Pastor, Manuel, (2005b:74003)**

Möller, Matthias (*with* Kuzmin, Dmitri; Turek, Stefan) Implicit flux-corrected transport algorithm for finite element simulation of the compressible Euler equations **2005j:65115**

— (*with* Kuzmin, Dmitri; Turek, Stefan) Implicit FEM-FCT algorithm for compressible flows. (English summary) (*see* **2005j:65003**)

— (*with* Kuzmin, Dmitri; Turek, Stefan) Implicit finite element discretizations based on the flux-corrected transport algorithm. (English summary) **2005k:65205**

Mosé, R. *see* **Hoteit, H. et al., 2005g:65145**

Murat, François *see* **Bernardi, Christine et al., 2005g:76074**

Murugesan, Krishnan (*with* Lo, D. C.; Young, Der-Liang) An efficient global matrix free finite element algorithm for 3D flow problems. (English summary)

Nafa, Kamel *see* **Touafek, Nouressadat, 2005m:65284**

Najib, K. (*with* Sandri, Dominique; Zine, A. M.) On a posteriori estimates for a linearized Oldroyd's problem. (English summary) **2005d:76001**

Nicaise, Serge *see* **Creusé, Emmanuel et al., 2005g:65159** *and* **Farhloul, Mohamed et al.**

Nobile, Fabio *see* **Formaggia, Luca, 2005d:65135**

Noble, D. R. (*with* Schunk, P. R.; Wilkes, E. D.; Rao, Rekha R.; Baer, T. A.) Finite element simulations of fluid-structure interactions via overset meshes and sharp embedded interfacial conditions. (English summary) (*see* **2005b:65003**)

Nochetto, Ricardo H. (*with* Pyo, Jae-Hong) Optimal relaxation parameter for the Uzawa method. (English summary) **2005h:65052**

Nore, C. (*with* Tuckerman, L. S.; Daube, O.; Xin, Shihe) The 1 : 2 mode interaction in exactly counter-rotating von Kármán swirling flow. (English summary) **2005a:76162**

Novotný, Jaroslav *see* **Burda, Pavel et al., (2005j:65003)**

Nürnberg, Robert *see* **Barrett, John W.[1] et al., 2005a:65098**

Obereder, Andreas *see* **Synka, Josef et al.**

Ohmori, Katsushi (*with* Fujima, Shoichi; Fujita, Yasuhiro) Convergence analysis of the interface for interfacial transport phenomena. (English summary) **2005c:76031**

van Oijen, C. H. G. A. *see* **van de Vosse, F. N. et al., 2005b:76147**

Okuda, Hiroshi *see* **Matsui, Hiroaki**

O'Leary, Dianne P. *see* **Elman, Howard C. et al., 2005k:65015**

Ol'shanskiĭ, M. A. (*with* Reusken, Arnold) Grad-div stabilization for Stokes equations. (English summary) **2005a:65137**

— *see also* **Gelhard, Tobias et al., 2005j:65140**

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Paquet, Luc *see* **Farhloul, Mohamed et al.**
Parhusip, H. A. *see* **Götz, Thomas, 2005m:76169**
Pastor, Manuel (*with* Mira, Pablo) Steady state problems of elliptic type. (*see* **2005b:74003**)
Patlashenko, Igor *see* **Givoli, Dan, 2005g:65143**
Pereira, Felipe *see* **Abreu, Eduardo et al., 2005k:76126**
Perotto, Simona *see* **Formaggia, Luca et al., 2005h:65191**
Philippe, B. *see* **Hoteit, H. et al., 2005g:65145**
Picasso, Marco (*with* Rappaz, Jacques; Reist, Adrian; Funk, Martin[2]; Blatter, Heinz) Numerical simulation of the motion of a two-dimensional glacier. (English summary) **2005g:86026**
Pini, Giorgio *see* **Mazzia, Annamaria et al., (2005c:00014)**
Polthier, Konrad (*with* Preuß, Eike) Identifying vector field singularities using a discrete Hodge decomposition. (English summary) **2005a:37031**
Pontaza, J. P. Least-squares variational principles and the finite element method: theory, formulations, and models for solid and fluid mechanics. (English summary) **2005k:65259**
Pop, Iuliu Sorin (*with* Radu, Adrian Florin; Knabner, Peter) Mixed finite elements for the Richards' equation: linearization procedure. (English summary)
— *see also* **Radu, Adrian Florin et al., 2005m:65189**
Preuß, Eike *see* **Polthier, Konrad, 2005a:37031**
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Quarteroni, Alfio *see* **Discacciati, Marco, 2005e:65142**
Radu, Adrian Florin (*with* Pop, Iuliu Sorin; Knabner, Peter) Order of convergence estimates for an Euler implicit, mixed finite element discretization of Richards' equation. (English summary) **2005m:65189**
— *see also* **Schneid, Eckhard et al., 2005g:65150** *and* **Pop, Iuliu Sorin et al.**
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Rao, Rekha R. *see* **Noble, D. R. et al., (2005b:65003)**
Rapin, Gerd (*with* Lube, Gert) A stabilized three-field formulation for advection-diffusion equations. (English summary) **2005m:65280**
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Ratish Kumar, B. V. (*with* Kumar, Bipin) On the development of parallel sparse CGM solver for CFD computations on Anu-cluster. (English summary) **2005m:65101**
— *see also* **Kumar, V. V. K. Srinivas et al., 2005g:65170**
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Reist, Adrian *see* **Picasso, Marco et al., 2005g:86026**
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Rogg, B. *see* **Michaelis, B., 2005a:80008**
Romero, Louis A. *see* **Burroughs, Elizabeth A. et al.**
Rousseau, Antoine André (*with* Temam, Roger; Tribbia, J.) Boundary layers in an ocean related system. (English summary) **2005m:76079**
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Ruas, V. (*with* Carneiro de Araujo, J. H.; Silva Ramos, M. A. M.) Multi-field finite element methods with discontinuous pressures for axisymmetric incompressible flow. (English summary)
Russo, Alessandro *see* **Brezzi, F. et al., 2005m:65260**
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Salmon, Stéphanie *see* **Magoulès, Frédéric et al., 2005c:76079** *and* **Abboud, T. et al., 2005h:65203**
Samanta, Deep *see* **Zabaras, Nicholas, 2005d:65170**
Sandri, Dominique *see* **Najib, K. et al., 2005d:76001** *and* **Bensaada, Mohammed et al., 2005i:65139**
Sangalli, Giancarlo A discontinuous residual-free bubble method for advection-diffusion problems. (English summary) **2005a:65138**
Sartoretto, Flavio *see* **Mazzia, Annamaria et al., (2005c:00014)**
Schmidt, Paul Günter *see* **Charina, Maria et al., 2005f:76110**
Schneebeli, Anna *see* **Hasler, Urs et al., 2005d:65209**
Schneid, Eckhard (*with* Knabner, Peter; Radu, Adrian Florin) A priori error estimates for a mixed finite element discretization of the Richards' equation. (English summary) **2005g:65150**
Schneider, René (*with* Jimack, Peter K.) Efficient preconditioning of the discrete adjoint equations for the incompressible Navier-Stokes equations. (English summary) **2005m:65250**
Schötzau, Dominik (*with* Wihler, Thomas P.) Exponential convergence of mixed hp-DGFEM for Stokes flow in polygons. (English summary) **2005g:65176**
— *see also* **Hasler, Urs et al., 2005d:65209**; **Houston, Paul et al., (2005j:65003)** *and* **Cockburn, Bernardo et al.**
Schulz, Piotr Instability and the formation of bubbles and the plugs in fluidized beds. (English summary) **2005i:76111**
Schunk, P. R. *see* **Noble, D. R. et al., (2005b:65003)**
Segal, August *see* **van de Vosse, F. N. et al., 2005b:76147**
Selgas, Virginia *see* **Meddahi, Salim et al., 2005b:65129**; **(2005b:00020)** *and* **Márquez Gentil, Antonio et al., 2005b:74041**
Sergienko, Ivan V. (*with* Deĭneka, V. S.) Numerical modeling of the vertical consolidation of water-saturated grounds. (Russian. English summary) **2005j:76087**
Serifi, K. *see* **Argyriadi, K. et al., 2005b:76014**
Severýn, Otto *see* **Maryška, Jiřiet al., 2005i:76106**
Shadid, John N. (*with* Tuminaro, Raymond S.; Devine, Karen D.; Hennigan, G. L.; Lin, P. T.) Performance of fully coupled domain decomposition preconditioners for finite element transport/reaction simulations. (English summary)
— *see also* **Bochev, Pavel B. et al., 2005a:65100** *and* **2005e:65128**
Shao, Xiumin Finite element methods for the equations of waves in fluid-saturated porous media. (English summary) **2005j:65116**
Shephard, Mark S. *see* **Chevaugeon, Nicolas et al., 2005m:65210**
Sherwin, Spencer J. *see* **Eskilsson, Claes et al., (2005b:00020)**
Sheu, Tony W. H. (*with* Lee, Pjek Hwee) Development of a two-dimensional finite element model for pure advective equation. (English summary) **2005a:65107**
Shu, Chi-Wang *see* **Ryan, Jennifer K. et al., 2005m:65222**
Shurina, E. P. *see* **Stywrin, A. V. et al., (2005i:65006)**
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Šístek, Jakub *see* **Burda, Pavel et al., (2005j:65003)**
Slodička, Marián Comprehensive models for wells. (English summary) **2005f:76100**
Sobotíková, Veronika *see* **Dolejší, Vít et al., 2005m:65211**
de Sousa, F. S. (*with* Mangiavacchi, Norberto) A Lagrangian level-set approach for the simulation of incompressible two-fluid flows. (English summary)
Sousedík, Bedřich *see* **Burda, Pavel et al., (2005j:65003)**
Spille, Andreas *see* **Rauh, Alexander et al., 2005g:76030**
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Stokes, Y. M. *see* **Agnon, Yehuda**
Stywrin, A. V. (*with* Shurina, E. P.; Chubarov, L. B.) A feature of the FVM/FEM-approach for modeling of surface waves on water. (English summary) (*see* **2005i:65006**)
Sun, Che *see* **Zhang, Wen Bo, 2005b:76090**
Sun, Jun Hong Characteristic finite element methods with moving mesh for contamination by incompressible nuclear waste. (Chinese. English summary) **2005e:65137**
Sun, Shuyu (*with* Rivière, Béatrice; Wheeler, Mary Fanett) A combined mixed finite element and discontinuous Galerkin method for miscible displacement problem in porous media. (English summary) **2005b:65110**
— (*with* Wheeler, Mary Fanett) Discontinuous Galerkin methods for coupled flow and reactive transport problems. (English summary) **2005m:65224**
Sváček, Petr *see* **Kozel, Karel et al., (2005j:65003)**
Svedberg, Thomas *see* **Hansbo, Peter et al., 2005c:74023**
Swann, Howard On solenoidal high-degree polynomial approximations to solutions of the stationary Navier-Stokes equations. (English summary) **2005f:65159**
Synka, Josef (*with* Kainz, Alexander; Maringer, Robert; Obereder, Andreas) Numerical analysis of a new Eulerian-Lagrangian finite element method applied to steady-state hot rolling processes. (English summary)
Tabata, Masahisa (*with* Tagami, Daisuke) Error estimates of finite element methods for nonstationary thermal convection problems with temperature-dependent coefficients. (English summary) **2005m:65225**
Tagami, Daisuke *see* **Tabata, Masahisa, 2005m:65225**
Tang, Tao *see* **Di, Yana et al., 2005j:65107**
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Theting, Thomas Gorm *see* **Manouzi, Hassan, 2005e:60150**
Tian, Xiang Jun (*with* Xie, Zheng Hui; Luo, Zhen Dong; Zhu, Jiang[2]) Nonlinear Galerkin mixed element methods for nonstationary conduction-convection problems. III. Second-order-accuracy time fully discrete format. (Chinese. English summary) **2005h:65172**
Tolstukha, A. S. The flow of an ideal incompressible fluid through lattices of arbitrary blades. (Russian. English summary) **2005f:76059**
Tone, Florentina Error analysis for a second order scheme for the Navier-Stokes equations. (English summary) **2005b:65101**
Toselli, Andrea (*with* Widlund, Olof B.) ★ Domain decomposition methods—algorithms and theory. **2005g:65006**
Touafek, Nouressadat (*with* Nafa, Kamel) New low order finite elements for fluid flow. (English summary) **2005m:65284**
Tribbia, J. *see* **Rousseau, Antoine André et al., 2005m:76079**
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— *see also* **Amara, Mohamed et al., 2005a:76039**
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Unyong, B. *see* **Wiwatanapataphee, Benchawan et al., 2005b:65111**
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Vakilipour, Shidvash *see* **Darbandi, Masoud et al., (2005j:65003)**
Valli, A. M. P. (*with* Carey, Graham F.; Coutinho, Alvaro L. G. A.) Control strategies for timestep selection in finite element simulation of incompressible flows and coupled reaction-convection-diffusion processes. (English summary) **2005m:65226**
Vaz dos Santos, M. A. *see* **Fortes, C. J. E. M. et al., (2005b:00020)**
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Vohralík, Martin *see* **Maryška, Jiřiet al., 2005i:76106**

Vola, Didier (*with* Babik, F.; Latché, J.-C.) On a numerical strategy to compute gravity currents of non-Newtonian fluids. (English summary)
van de Vosse, F. N. (*with* de Hart, J.; van Oijen, C. H. G. A.; Bessems, D.; Gunther, T. W. M.; Segal, August; Wolters, B. J. B. M.; Stijnen, J. M. A.; Baaijens, Frank P. T.) Finite-element-based computational methods for cardiovascular fluid-structure interaction. (English summary) **2005b:76147**
Wan, Decheng (*with* Turek, Stefan; Rivkind, Liudmila S.) An efficient multigrid FEM solution technique for incompressible flow with moving rigid bodies. (English summary) (*see* **2005j:65003**)
Wan, Xiaoliang (*with* Xiu, Dongbin; Karniadakis, George Em) Stochastic solutions for the two-dimensional advection-diffusion equation. (English summary) **2005i:76089**
Wang, Xiaodong *see* **Liu, Yaling et al., 2005h:92011**
Warnecke, Gerald G. *see* **Lukáčová-Medvid'ová, M. et al., 2005h:65168**
Waters, L. K. (*with* Fix, George J., III; Cox, Christopher L.) The method of Glowinski and Pironneau for the unsteady Stokes problem. (English summary) **2005i:76038**
Wells, B. V. (*with* Baines, Michael; Glaister, P.) Generation of arbitrary Lagrangian-Eulerian (ALE) velocities, based on monitor functions, for the solution of compressible fluid equations. (English summary) **2005m:65227**
Wen, Xin[2] *see* **Han, Hou-de, 2005a:86004**
Wheeler, Mary Fanett *see* **Sun, Shuyu et al., 2005b:65110** *and* **2005m:65224**
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Wilkes, E. D. *see* **Noble, D. R. et al., (2005b:65003)**
Wiwatanapataphee, Benchawan (*with* Wu, Yong Hong[1]; Archapitak, J.; Siew, P. F.; Unyong, B.) A numerical study of the turbulent flow of molten steel in a domain with a phase-change boundary. (English summary) **2005b:65111**
Wolters, B. J. B. M. *see* **van de Vosse, F. N. et al., 2005b:76147**
Wu, Guo Xiong (*with* Hu, Z. Z.) Simulation of nonlinear interactions between waves and floating bodies through a finite-element-based numerical tank. (English summary) **2005e:76022**
Wu, Xiao Nan (*with* Jin, Jicheng) A finite element method for Stokes equation using discrete singularity expansion. (English summary) **2005i:65193**
— *see also* **Gu, Haiming**
Wu, Yong Hong[1] *see* **Wiwatanapataphee, Benchawan et al., 2005b:65111**
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Xiu, Dongbin *see* **Wan, Xiaoliang et al., 2005i:76089**
Yagi, Hiroko (*with* Kawahara, Mutsuto) Shape optimization of a body located in low Reynolds number flow. (English summary) **2005m:76075**
Young, Der-Liang *see* **Murugesan, Krishnan et al.**
Zabaras, Nicholas (*with* Samanta, Deep) A stabilized volume-averaging finite element method for flow in porous media and binary alloy solidification processes. (English summary) **2005d:65170**
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Zhang, Ping Wen *see* **Di, Yana et al., 2005j:65107**
Zhang, Qinghai *see* **Jiang, Chunbo et al.**
Zhang, Shangyou A new family of stable mixed finite elements for the 3D Stokes equations. (English summary) **2005j:65151**
Zhang, Wen Bo (*with* Sun, Che) Finite-volume and streamline-diffusion finite element method for steady convection dominated convection-diffusion problems. (Chinese. English summary) **2005b:76090**
Zheng, Xiaoming *see* **Anderson, Anthony et al., 2005m:76130**
Zhu, Jiang[3] *see* **Tian, Xiang Jun et al., 2005h:65172**
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— Face-centered and volume-centered discrete analogs of the exterior differential equations governing porous medium flow. II. Examples. (English summary) **2005m:76179**
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Aboubacar, M. (*with* Phillips, T. N.; Tamaddon-Jahromi, H. R.; Snigerev, B. A.; Webster, M. F.) High-order finite volume methods for viscoelastic flow problems. (English summary) **2005b:76089**
Arminjon, P. (*with* Touma, R.) Central finite volume methods with constrained transport divergence treatment for ideal MHD. (English summary) **2005k:76081**
Audusse, Emmanuel (*with* Bouchut, François; Bristeau, Marie-Odile; Klein, Rupert; Perthame, Benoît) A fast and stable well-balanced scheme with hydrostatic reconstruction for shallow water flows. (English summary) **2005f:76069**
— (*with* Bristeau, Marie-Odile) A well-balanced positivity preserving "second-order" scheme for shallow water flows on unstructured meshes. (English summary) **2005k:76082**
Bailey, D. A. (*with* Sweby, Peter K.; Glaister, P.) A ghost fluid, moving finite volume plus continuous remap method for compressible Euler flow. (English summary) **2005j:76064**
Bao, Yuan Lin (*with* Cheng, Bing[1]; Chen, Xiu Rong; Zhou, Xiao Yang) Application of the KFVS finite volume method in two-dimensional dam breaking. (Chinese. English and Chinese summaries)
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Bouchut, François *see* **Audusse, Emmanuel et al., 2005f:76069**
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Broeckhoven, Tim (*with* Smirnov, Sergey; Ramboer, Jan; Lacor, Chris) Finite volume formulation of compact upwind and central schemes with artificial selective damping. (English summary)
Chen, Xiu Rong *see* **Bao, Yuan Lin et al.**
Cheng, Bing[1] *see* **Bao, Yuan Lin et al.**
Dröge, Marc (*with* Verstappen, Roel) A new symmetry-preserving Cartesian-grid method for computing flow past arbitrarily shaped objects. (English summary)
Eymard, Robert (*with* Gallouët, Thierry; Vovelle, Julien) Limit boundary conditions for finite volume approximations of some physical problems. (English summary) **2005k:76083**
— (*with* Gallouët, Thierry) Finite volume schemes for two-phase flow in porous media. (English summary) **2005a:76107**
Gallouët, Thierry *see* **Eymard, Robert et al., 2005a:76107** *and* **2005k:76083**
Gao, Zhi (*with* Yang, Guowei) Perturbation finite volume method for convective-diffusion integral equation. (English summary)
Ghidaglia, Jean-Michel (*with* Pascal, Frédéric) The normal flux method at the boundary for multidimensional finite volume approximations in CFD. (English summary) **2005m:76121**
Glaister, P. *see* **Bailey, D. A. et al., 2005j:76064**
Hérard, Jean-Marc *see* **Perron, Sébastien et al., 2005d:76027**
Jeltsch, Rolf *see* **Sawyer, William, (2005j:65003)**
Jenny, P. (*with* Lee, Seong Hee; Tchelep, H. A.) Adaptive multiscale finite-volume method for multiphase flow and transport in porous media. (English summary) **2005i:76076**
Keats, W. A. (*with* Lien, F.-S.) Two-dimensional anisotropic Cartesian mesh adaptation for the compressible Euler equations. (English summary)
Klein, Rupert *see* **Audusse, Emmanuel et al., 2005f:76069**
Lacor, Chris *see* **Broeckhoven, Tim et al.**
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Lee, Seong Hee *see* **Jenny, P. et al., 2005i:76076**
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Mazzia, Annamaria (*with* Putti, Mario) High order Godunov mixed methods on tetrahedral meshes for density driven flow simulations in porous media. (English summary) **2005k:76084**
Müller, Siegfried *see* **Bramkamp, F. et al., 2005a:76106**
Pascal, Frédéric *see* **Ghidaglia, Jean-Michel, 2005m:76121**
Perron, Sébastien (*with* Boivin, Sylvain; Hérard, Jean-Marc) A finite volume method to solve the 3D Navier-Stokes equations on unstructured collocated meshes. (English summary) **2005d:76027**
Perthame, Benoît *see* **Audusse, Emmanuel et al., 2005f:76069**
Phillips, T. N. *see* **Aboubacar, M. et al., 2005b:76089**
Putti, Mario *see* **Mazzia, Annamaria, 2005k:76084**
Ramboer, Jan *see* **Broeckhoven, Tim et al.**
Sawyer, William (*with* Jeltsch, Rolf) A finite-volume mass- and vorticity-conserving shallow-water model using penta-/hexagonal grids. (English summary) (*see* **2005j:65003**)
Segal, August *see* **Vidović, Dragan et al., 2005a:76108**
Smirnov, Sergey *see* **Broeckhoven, Tim et al.**
Snigerev, B. A. *see* **Aboubacar, M. et al., 2005b:76089**
Song, Huai Ling Finite volume methods for two-phase incompressible flow in porous media. (Chinese. English and Chinese summaries) **2005g:76080**
Sun, Che *see* **Zhang, Wen Bo, 2005b:76090**
Sweby, Peter K. *see* **Bailey, D. A. et al., 2005j:76064**
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Touma, R. *see* **Arminjon, P., 2005k:76081**
Verstappen, Roel *see* **Dröge, Marc**
Vidović, Dragan (*with* Segal, August; Wesseling, P.) A superlinearly convergent finite volume method for the incompressible Navier-Stokes equations on staggered unstructured grids. (English summary) **2005a:76108**
Vovelle, Julien *see* **Eymard, Robert et al., 2005k:76083**
Webster, M. F. *see* **Aboubacar, M. et al., 2005b:76089**
Wesseling, P. *see* **Vidović, Dragan et al., 2005a:76108**
Yang, Guowei *see* **Gao, Zhi**
Zhang, Wen Bo (*with* Sun, Che) Finite-volume and streamline-diffusion finite element method for steady convection dominated convection-diffusion problems. (Chinese. English summary) **2005b:76090**
Zhou, Xiao Yang *see* **Bao, Yuan Lin et al.**
Zhu, Baoshan Finite volume solution of the Navier-Stokes equations in velocity-vorticity formulation. (English summary)

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Aboubacar, M. *see* **Webster, M. F. et al., 2005h:76059**
Achdou, Yves (*with* Bernardi, Christine; Coquel, Frédéric) A priori and a posteriori analysis of finite volume discretizations of Darcy's equations. (English summary) **2005d:65179**
Adimurthi (*with* Jaffré, Jérôme; Veerappa Gowda, G. D.) Godunov-type methods for conservation laws with a flux function discontinuous in space. (English summary) **2005c:65066**
Akhmetzyanov, A. V. (*with* Kulibanov, V. N.) Unconventional mathematical models of fluid filtration in porous media. (Russian. Russian summary) **2005d:76040**
Andreyanov, Boris P. (*with* Boyer, Franck; Hubert, Florence) Finite volume schemes for the p-Laplacian on Cartesian meshes. (English summary) **2005j:65123**
— (*with* Gutnic, Michaël; Wittbold, Petra) Convergence of finite volume approximations for a nonlinear elliptic-parabolic problem: a "continuous" approach. (English summary) **2005e:65114**
Baines, Michael *see* **Wells, B. V. et al., 2005m:65227**
Balsara, D. S. *see* **Torrilhon, Manuel, 2005g:65127**
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Bernardi, Christine *see* **Achdou, Yves et al., 2005d:65179**
Bertolazzi, Enrico (*with* Manzini, Gianmarco) Limiting strategies for polynomial reconstructions in the finite volume approximation of the linear advection equation (English summary)
— (*with* Manzini, Gianmarco) A finite volume method for transport of contaminants in porous media. (English summary)
— (*with* Manzini, Gianmarco) Least square-based finite volumes for solving the advection-diffusion of contaminants in porous media. (English summary)

— (*with* Manzini, Gianmarco) A cell-centered second-order accurate finite volume method for convection-diffusion problems on unstructured meshes. (English summary) **2005e:65162**

Blanc, Philippe (*with* Eymard, Robert; Herbin, Raphaèle) An error estimate for finite volume methods for the Stokes equations on equilateral triangular meshes. (English summary) **2005k:65227**

Bongiovanni, Emmanuel (*with* Ern, Alexandre; Glinsky-Olivier, Nathalie) Evaluation of an energy relaxation method for the simulation of unsteady, viscous, real gas flows. (English summary) **2005a:76135**

Bouchut, François ★ Nonlinear stability of finite volume methods for hyperbolic conservation laws and well-balanced schemes for sources. **2005m:65002**

Boyer, Franck *see* **Andreyanov, Boris P. et al., 2005j:65123**

Castro-Díaz, Manuel Jesús (*with* García-Rodríguez, J. A.; González Vida, José M.; Parés, Carlos) Numerical solution of two-layer shallow water equations using finite volume schemes. (Spanish. Spanish summary) **2005i:86004**

Cea, L. (*with* Ferreiro Ferreiro, Ana M.; Vázquez-Cendón, María Elena; Puertas, J.) Experimental and numerical analysis of solitary waves generated by bed and boundary movements. (English summary) **2005g:86004**

Chacón-Rebollo, Tomás (*with* Domínguez Delgado, Antonio; Fernández Nieto, Enrique D.) Numerical schemes for 2D shallow water equations with variable depth and friction effects. (English summary) (*see* **2005b:00020**)

Chertock, Alina (*with* Kurganov, Alexander) On a hybrid finite-volume-particle method. (English summary) **2005i:34007**

Chesnokov, Aleksandr Aleksandrovich *see* **Teshukov, Vladimir et al., 2005i:76021**

Chubarov, L. B. *see* **Stywrin, A. V. et al.,** (**2005i:65006**)

Čiegis, Raimondas (*with* Iliev, Oleg; Rief, Stefan; Steiner, Konrad) On modeling and simulation of different regimes for liquid polymer moulding. (English summary) **2005h:76004**

— (*with* Meilūnas, M.; Štikonas, A.) Mathematical modelling of water flow in paper press machines. (English and Lithuanian summaries)

Coquel, Frédéric *see* **Achdou, Yves et al., 2005d:65179**

Črnjarić-Žic, Nelida (*with* Vuković, Senka; Sopta, Luka) Balanced finite volume WENO and central WENO schemes for the shallow water and the open-channel flow equations. (English summary) **2005d:76028**

Cui, Xia Finite volume numerical analysis for parabolic equation with Robin boundary condition. (English summary) **2005m:65165**

Delgado, Vladimir (*with* Kasperski, Guillaume; Labrosse, Gérard) Spectrally accurate numerical incompressible flows with deformed boundaries: a finite volume preconditioning method. (English summary)

De Rouck, Julien *see* **Li, Tingqiu et al., 2005c:76019**

Descombes, Stéphane *see* **Iskakov, A. B. et al., 2005c:76092**

Després, Bruno Lax theorem and finite volume schemes. (English summary) **2005a:65083**

— An explicit a priori estimate for a finite volume approximation of linear advection on non-Cartesian grids. (English summary) **2005j:65095**

Djadel, K. (*with* Nicaise, Serge) Some refined finite volume element methods for the Stokes and Navier-Stokes systems with corner singularities. (English summary) **2005i:65162**

Domínguez Delgado, Antonio *see* **Chacón-Rebollo, Tomás et al.,** (**2005b:00020**)

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Dubois, François Partial Riemann problem, boundary conditions, and gas dynamics. **2005e:76071**

Efendiev, Messoud A. (*with* Fuhrmann, J.; Zelik, S. V.) The long-time behaviour of the thermoconvective flow in a porous medium. (English summary) **2005h:37194**

Ern, Alexandre *see* **Bongiovanni, Emmanuel et al., 2005a:76135**

Eymard, Robert (*with* Herbin, Raphaèle) A finite volume scheme on general meshes for the steady Navier-Stokes equations in two space dimensions. (English summary) (*see* **2005j:65003**)

— *see also* **Blanc, Philippe et al., 2005k:65227**

Faure, Sylvain Stability of a colocated finite volume scheme for the Navier-Stokes equations. (English summary) **2005m:65166**

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García-Rodríguez, J. A. *see* **Castro-Díaz, Manuel Jesús et al., 2005i:86004**

Ginting, V. Analysis of two-scale finite volume element method for elliptic problem. (English summary) **2005e:65165**

Glaister, P. *see* **Wells, B. V. et al., 2005m:65227**

Glinsky-Olivier, Nathalie *see* **Bongiovanni, Emmanuel et al., 2005a:76135**

González Vida, José M. *see* **Castro-Díaz, Manuel Jesús et al., 2005i:86004**

Groppi, Maria (*with* Pennacchio, Micol) An IMEX finite volume scheme for reactive Euler equations arising from kinetic theory. (English summary) **2005d:82107**

Gutnic, Michaël *see* **Andreyanov, Boris P. et al., 2005e:65114**

Hall, Oskar (*with* Schroll, Hans Joachim; Svensson, Fredrik) High-resolution simulation of inviscid flow in general domains. (English summary) **2005k:65171**

Helzel, Christiane (*with* Berger, Marsha J.; LeVeque, Randall J.) A high-resolution rotated grid method for conservation laws with embedded geometries. (English summary) **2005i:35180**

Herbin, Raphaèle *see* **Blanc, Philippe et al., 2005k:65227** *and* **Eymard, Robert,** (**2005j:65003**)

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Iliev, Oleg *see* **Čiegis, Raimondas et al., 2005h:76004**

Iskakov, A. B. (*with* Descombes, Stéphane; Dormy, Emmanuel) An integro-differential formulation for magnetic induction in bounded domains: boundary element–finite volume method. (English summary) **2005c:76092**

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Jayantha, Pasdunkorale A. (*with* Turner, Ian W.) A second order control-volume finite-element least-squares strategy for simulating diffusion in strongly anisotropic media. (English summary) **2005j:74056**

Kačur, J. (*with* Malengier, B.; Remešíková, M.) Solution of contaminant transport with equilibrium and non-equilibrium adsorption. (English summary) **2005g:76119**

Käser, Martin (*with* Iske, Armin) Reservoir flow simulation by adaptive ADER schemes. (English summary) **2005j:76085**

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Koren, Barry *see* **Wackers, Jeroen, 2005m:65183**

Kröger, Tim (*with* Noelle, Sebastian; Zimmermann, Susanne) On the connection between some Riemann-solver free approaches to the approximation of multi-dimensional systems of hyperbolic conservation laws. (English summary) **2005m:35178**

Kulibanov, V. N. *see* **Akhmetzyanov, A. V., 2005d:76040**

Kurganov, Alexander *see* **Chertock, Alina, 2005i:34007**

Labrosse, Gérard *see* **Delgado, Vladimir et al.**

Le Potier, Christophe Schéma volumes finis pour des opérateurs de diffusion fortement anisotropes sur des maillages non structurés. (English and French summaries) [Finite volume scheme for highly anisotropic diffusion operators on unstructured meshes]

LeVeque, Randall J. *see* **Helzel, Christiane et al., 2005i:35180**

Li, Tingqiu (*with* Troch, Peter; De Rouck, Julien) Wave overtopping over a sea dike. (English summary) **2005c:76019**

Liu, Ru Xun (*with* Liu, Xiao Ping; Zhang, Lei; Wang, Zhi Feng[1]) Tracking and reconstruction methods for moving-interfaces. (Chinese. English and Chinese summaries) **2005d:65155**

Liu, Xiao Ping *see* **Liu, Ru Xun et al., 2005d:65155**

Lukáčová-Medvid'ová, M. (*with* Morton, K. W.; Warnecke, Gerald G.) Finite volume evolution Galerkin methods for hyperbolic systems. (English summary) **2005i:35182**

— (*with* Vlk, Z.) Well-balanced finite volume evolution Galerkin methods for the shallow water equations with source terms. (English summary) **2005k:65204**

Malengier, B. *see* **Kačur, J. et al., 2005g:76119**

Manzini, Gianmarco *see* **Bertolazzi, Enrico, 2005e:65162**

Meilūnas, M. *see* **Čiegis, Raimondas et al.**

Michel, Anthony A finite volume scheme for two-phase immiscible flow in porous media. (English summary) **2005a:65087**

Morton, K. W. *see* **Lukáčová-Medvid'ová, M. et al., 2005i:35182**

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Pennacchio, Micol *see* **Groppi, Maria, 2005d:82107**

Puertas, J. *see* **Cea, L. et al., 2005g:86004**

Puppo, Gabriella Numerical entropy production for central schemes. (English summary) **2005d:65146**

— *see also* **Pareschi, Lorenzo et al., 2005k:65179**

Qiu, Jian Xian (*with* Shu, Chi-Wang) Runge-Kutta discontinuous Galerkin method using WENO limiters. (English summary) **2005j:65088**

Remešíková, M. Solution of convection-diffusion problems with nonequilibrium adsorption. (English summary) **2005c:35151**

— *see also* **Kačur, J. et al., 2005g:76119**

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Shurina, E. P. *see* **Stywrin, A. V. et al.,** (**2005i:65006**)

Šolín, Pavel (*with* Segeth, Karel) Non-uniqueness of almost unidirectional inviscid compressible flow. (English summary) **2005f:76083**

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Steiner, Konrad *see* **Čiegis, Raimondas et al., 2005h:76004**

Stelling, Guus S. *see* **Zijlema, Marcel**

Štikonas, A. *see* **Čiegis, Raimondas et al.**

Stywrin, A. V. (*with* Shurina, E. P.; Chubarov, L. B.) A feature of the FVM/FEM-approach for modeling of surface waves on water. (English summary) (*see* **2005i:65006**)

Sun, Yuzhi (*with* Wang, Zhi Jian[4]) Evaluation of discontinuous Galerkin and spectral volume methods for scalar and system conservation laws on unstructured grids. (English summary) **2005c:65086**

Svärd, Magnus (*with* Nordström, Jan) Stability of finite volume approximations for the Laplacian operator on quadrilateral and triangular grids. (English summary) **2005f:65110**

Svensson, Fredrik *see* **Hall, Oskar et al., 2005k:65171**

Tamaddon-Jahromi, H. R. *see* **Webster, M. F. et al., 2005h:76059**

Teshukov, Vladimir (*with* Russo, Giovanni; Chesnokov, Aleksandr Aleksandrovich) Analytical and numerical solutions of the shallow water equations for 2D rotational flows. (English summary) **2005i:76021**

Titarev, V. A. (*with* Toro, Eleuterio F.) Finite-volume WENO schemes for three-dimensional conservation laws. (English summary) **2005i:65124**

Toro, Eleuterio F. *see* **Titarev, V. A., 2005i:65124**

Torrilhon, Manuel (*with* Balsara, D. S.) High order WENO schemes: investigations on non-uniform convergence for MHD Riemann problems. (English summary) **2005g:65127**

— (*with* Fey, Michael) Constraint-preserving upwind methods for multidimensional advection equations. (English summary) **2005j:65090**

Troch, Peter *see* **Li, Tingqiu et al., 2005c:76019**

Trujillo, David Mixed primal-dual method for nuclear waste disposal far field simulation. (English summary) **2005h:65223**

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Vlk, Z. *see* **Lukáčová-Medvid'ová, M., 2005k:65204**

Vuković, Senka *see* **Črnjarić-Žic, Nelida et al., 2005d:76028**

Wackers, Jeroen (*with* Koren, Barry) A fully conservative model for compressible two-fluid flow. (English summary) **2005m:65183**

Wang, Tong Ke A class of upwind finite volume schemes for one-dimensional steady convection-dominated diffusion equations. (English and Chinese summaries) **2005i:65164**
Wang, Zhi Feng[1] *see* **Liu, Ru Xun et al., 2005d:65155**
Wang, Zhi Jian[4] *see* **Sun, Yuzhi, 2005c:65086**
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Webster, M. F. (*with* Tamaddon-Jahromi, H. R.; Aboubacar, M.) Time-dependent algorithms for viscoelastic flow: finite element/volume schemes. (English summary) **2005h:76059**
Wells, B. V. (*with* Baines, Michael; Glaister, P.) Generation of arbitrary Lagrangian-Eulerian (ALE) velocities, based on monitor functions, for the solution of compressible fluid equations. (English summary) **2005m:65227**
Wittbold, Petra *see* **Andreyanov, Boris P. et al., 2005e:65114**
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— Face-centered and volume-centered discrete analogs of the exterior differential equations governing porous medium flow. II. Examples. (English summary) **2005m:76179**
Zijlema, Marcel (*with* Stelling, Guus S.) Further experiences with computing non-hydostatic free-surface flows involving water waves. (English summary)
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Chen, I-Lin *see* **Chen, Jeng-Tzong et al.**
Chen, Jeng-Tzong (*with* Lin, Tzong-Wey; Chen, I-Lin; Lee, Yang-Jye) Fictitious frequency for the exterior Helmholtz equation subject to the mixed-type boundary condition using BEMs. (English summary)
Cheng, Yueming (*with* McVay, Duane A.; Lee, William John) BEM for 3D unsteady-state flow problems in porous media with a finite-conductivity horizontal wellbore. (English summary) **2005i:76077**
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Guyenne, P. *see* **Fochesato, C. et al., 2005k:76085**
Kanoh, M. (*with* Okuzono, H.; Nakamura, N.; Kuroki, Takemi) Wave and water motion analysis using combined boundary element and weighted finite difference method. (English summary) (*see* **2005d:65006**)
Kuroki, Takemi *see* **Kanoh, M. et al., (2005d:65006)**
Lee, William John *see* **Cheng, Yueming et al., 2005i:76077**
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Nakamura, N. *see* **Kanoh, M. et al., (2005d:65006)**
Okuzono, H. *see* **Kanoh, M. et al., (2005d:65006)**
Peratta, Andrés (*with* Popov, Viktor) Numerical stability of the BEM for advection-diffusion problems. (English summary) **2005b:76091**
Popov, Viktor *see* **Peratta, Andrés, 2005b:76091**
Rahman, Matiur *see* **Mousavizadegan, S. H., 2005g:76081**
Wagner, Marcus Michael (*with* Gaul, Lothar; Dumont, Ney A.) The hybrid boundary element method in structural acoustics. (English summary) **2005g:76082**

Items with secondary classifications in 76M15

Amado Mendes, P. (*with* Tadeu, A.; António, J.) Scattering of 3D acoustic waves by cracks using two different boundary elements formulations. (English summary) (*see* **2005d:65006**)
Antoine, Xavier (*with* Darbas, Marion; Lu, Ya Yan) An improved on-surface radiation condition for acoustic scattering problems in the high-frequency spectrum. (English and French summaries) **2005k:76117**
António, J. *see* **Amado Mendes, P. et al., (2005d:65006)**
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Atluri, Satya N. *see* **Qian, Zhongyan et al.**
Bahadır, A. Refik (*with* Sağlam, Mustafa) A mixed finite difference and boundary element approach to one-dimensional Burgers' equation. (English summary) **2005i:65115**
Battistin, D. (*with* Iafrati, A.) A numerical model for the jet flow generated by water impact. (English summary) **2005a:76011**
Bettess, Peter *see* **Perrey-Debain, Emmanuel et al., 2005c:65111**
(Brebbia, C. A.) *see* **Boundary elements XXVI, 2005d:65006**
Callsen, S. (*with* von Estorff, O.; Zaleski, O.) Direct and indirect approach of a desingularized boundary element formulation for acoustical problems. (English summary)
Chakib, A. (*with* Nachaoui, Abdeljalil) Nonlinear programming approach for a transient free boundary flow problem. (English summary) **2005g:76114**
Chandler-Wilde, Simon N. (*with* Langdon, Stephen; Ritter, Lars) A Galerkin boundary element method for a high frequency scattering problem. (*see* **2005b:00020**)
— (*with* Langdon, Stephen; Ritter, Lars) A high-wavenumber boundary-element method for an acoustic scattering problem. (English summary) **2005e:65181**
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von Estorff, O. *see* **Callsen, S. et al.**
Flórez, W. *see* **Giraldo, M. et al., (2005d:65006)**
Gallegos, C. M. (*with* Mammoli, A. A.) A two dimensional numerical study of viscous fingering in a porous medium. (English summary) (*see* **2005b:65003**)
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Giraldo, M. (*with* Flórez, W.; Isaza, C. A.) Modelling and simulation of a Savonius rotor using the boundary element method. (English summary) (*see* **2005d:65006**)
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Grigoriev, M. M. (*with* Dargush, G. F.) Efficiency of boundary element methods for time-dependent convective heat diffusion at high Peclet numbers. (English summary)
Han, Z. D. *see* **Qian, Zhongyan et al.**
Huang, Qi Bai *see* **Zhao, Zhi Gao**
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— *see also* **Battistin, D., 2005a:76011**
Isaza, C. A. *see* **Giraldo, M. et al., (2005d:65006)**
Iskakov, A. B. (*with* Descombes, Stéphane; Dormy, Emmanuel) An integro-differential formulation for magnetic induction in bounded domains: boundary element–finite volume method. (English summary) **2005c:76092**
Jecl, R. *see* **Škerget, L., (2005c:76001)**
Kohr, Mirela (*with* Pop, Ioan[2]) ★ Viscous incompressible flow for low Reynolds numbers. **2005k:76032**
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Korobkin, A. A. *see* **Iafrati, A., 2005m:76023**
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Mansur, W. J. *see* **Soares, D., Jr.**
Márquez Gentil, Antonio (*with* Meddahi, Salim; Selgas, Virginia) A new BEM-FEM coupling strategy for two-dimensional fluid-solid interaction problems. (English summary) **2005b:74041**
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Nachaoui, Abdeljalil *see* **Chakib, A., 2005g:76114**
Peratta, Andrés (*with* Popov, Viktor) A BEM DRM-MD for flow and transport in 3D fracture networks. (English summary) (*see* **2005d:65006**)
Perrey-Debain, Emmanuel (*with* Trevelyan, Jon; Bettess, Peter) Plane wave interpolation in direct collocation boundary element method for radiation and wave scattering: numerical aspects and applications. (English summary) **2005c:65111**
Pop, Ioan[2] *see* **Kohr, Mirela, 2005k:76032**
Popov, Viktor *see* **Peratta, Andrés, (2005d:65006)**
Qian, Zhongyan (*with* Han, Z. D.; Ufimtsev, Petr Ya.; Atluri, Satya N.) Non-hyper-singular boundary integral equations for acoustic problems, implemented by the collocation-based boundary element method. (English summary)
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Sato, Katsuhiko Extension of CVBEM to dispersive flow in the presence of distributed fractures. (English summary) (*see* **2005d:65006**)
Selgas, Virginia *see* **Márquez Gentil, Antonio et al., 2005b:74041**
Škerget, L. (*with* Jecl, R.) Compressible fluid dynamics in porous media by the boundary element method. (*see* **2005c:76001**)
Soares, D., Jr. (*with* Mansur, W. J.) An efficient time-domain BEM/FEM coupling for acoustic-elastodynamic interaction problems. (English summary)
Tadeu, A. *see* **Amado Mendes, P. et al., (2005d:65006)**
Tanaka, Masataka (*with* Matsumoto, Takashi; Arai, Y.) Combined application of BEM and cellular automata to some shape optimization in acoustic fields. (English summary) (*see* **2005d:65006**)
Trevelyan, Jon *see* **Perrey-Debain, Emmanuel et al., 2005c:65111**
Ufimtsev, Petr Ya. *see* **Qian, Zhongyan et al.**
Van Nguyen, Khoa *see* **Gatmiri, Behrouz, 2005i:74027**
Yan, Zai You (*with* Cui, Fang Sen; Hung, Kin Chew) Investigation on the normal derivative equation of Helmholtz integral equation in acoustics. (English summary)
Zaleski, O. *see* **Callsen, S. et al.**
Zhao, Zhi Gao (*with* Huang, Qi Bai) Calculation of singular integral for the Helmholtz boundary integral equation in acoustics. (Chinese. English and Chinese summaries)

Items listed otherwise than by author

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Agnon, Yehuda *see* **Bingham, Harry B., 2005h:76060**
Aldrighetti, E. (*with* Zanolli, P.) A high resolution scheme for flows in open channels with arbitrary cross-section. (English summary) **2005i:76078**
Alekseev, A. K. (*with* Navon, Ionel Michael) A posteriori pointwise error estimation for compressible fluid flows using adjoint parameters and Lagrange remainder. (English summary) **2005g:76083**
Andrianov, Nikolai Performance of numerical methods on the non-unique solution to the Riemann problem for the shallow water equations. (English summary) **2005i:76079**
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Azarenok, Boris N. (*with* Tang, Tao) Second-order Godunov-type scheme for reactive flow calculations on moving meshes. (English summary) **2005k:76086**

Bagabir, A. (*with* Drikakis, Dimitris) Numerical experiments using high-resolution schemes for unsteady, inviscid, compressible flows. (English summary) **2005c:76066**

Balbás, Jorge (*with* Tadmor, Eitan; Wu, Cheng-Chin) Non-oscillatory central schemes for one- and two-dimensional MHD equations. I. (English summary) **2005f:76070**

Bingham, Harry B. (*with* Agnon, Yehuda) A Fourier-Boussinesq method for nonlinear water waves. (English summary) **2005h:76060**

— *see also* **Fuhrman, David R. et al., 2005a:76110**

Brüger, Arnim (*with* Gustafsson, Bertil; Lötstedt, Per; Nilsson, Jonas) High order accurate solution of the incompressible Navier-Stokes equations. (English summary) **2005f:76071**

Campo, Antonio On the asymptotic solution of the Graetz-Nusselt problem for short $x \to 0$ and large $x \to \infty$ with partial usage of finite differences. (English summary)

Chakravorty, Saugata (*with* Mathew, Joseph[1]) A high-resolution scheme for low Mach number flows. (English summary) **2005b:76092**

Chen, Chi-fang *see* **Sheu, Tony W. H. et al.**

Chizhonkov, E. V. (*with* Ivanchikov, A. A.) On numerical stabilization of solutions of Stokes and Navier-Stokes equations by the boundary conditions. (English summary) **2005g:76084**

Clarisse, Jean-Marie (*with* Jaouen, Stéphane; Raviart, Pierre-Arnaud) A Godunov-type method in Lagrangian coordinates for computing linearly-perturbed planar-symmetric flows of gas dynamics. (English summary) **2005a:76109**

Colella, Phillip *see* **Crockett, Robert K. et al., 2005j:76065**

Črnjarić-Žic, Nelida (*with* Vuković, Senka; Sopta, Luka) Balanced finite volume WENO and central WENO schemes for the shallow water and the open-channel flow equations. (English summary) **2005d:76028**

Crockett, Robert K. (*with* Colella, Phillip; Fisher, Robert T.; Klein, Richard J.; McKee, Christopher I.) An unsplit, cell-centered Godunov method for ideal MHD. (English summary) **2005j:76065**

Crossley, A. J. (*with* Wright, N. G.) Time accurate local time stepping for the unsteady shallow water equations. (English summary)

Darmofal, David L. *see* **Nielsen, Eric J. et al., 2005c:76068**

Delis, A. I. (*with* Katsaounis, Theodoros) A generalized relaxation method for transport and diffusion of pollutant models in shallow water. (English summary) **2005i:76080**

Demir, Hüseyin Numerical modelling of viscoelastic cavity driven flow using finite difference simulations. (English summary) **2005m:76122**

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Dipankar, Anurag *see* **Sengupta, T. K. et al., 2005g:76088**

Drikakis, Dimitris *see* **Bagabir, A., 2005c:76066**

Dubas, Saeed M. (*with* Osman, Atif; Schultz, David H.) Numerical studies of steady, viscous, incompressible flow in a channel with a step. (English summary)

Elbarbary, Elsayed M. E. M. Chebyshev finite difference method for the solution of boundary-layer equations. (English summary) **2005f:76072**

— *see also* **El-Dabe, Nabile T. M. et al., 2005g:76085**

El-Dabe, Nabile T. M. (*with* Elshehawey, E. F.; Elbarbary, Elsayed M. E. M.; Elgazery, Nasser S.) Chebyshev finite difference method for MHD flow of a micropolar fluid past a stretching sheet with heat transfer. (English summary) **2005g:76085**

Elgazery, Nasser S. *see* **El-Dabe, Nabile T. M. et al., 2005g:76085**

Elshehawey, E. F. *see* **El-Dabe, Nabile T. M. et al., 2005g:76085**

Fasel, Hermann F. *see* **Linnick, Mark N.**

Ferdigalov, L. Yu. Numerical solution of the equation of motion of an ideal fluid whose vorticity is proportional to the flow function. (Russian. English and Ukrainian summaries)

Fisher, Robert T. *see* **Crockett, Robert K. et al., 2005j:76065**

Fuhrman, David R. (*with* Bingham, Harry B.; Madsen, Per A.; Thomsen, Per G.) Linear and non-linear stability analysis for finite difference discretizations of high-order Boussinesq equations. (English summary) **2005a:76110**

Galkin, V. A. Background of computations for mathematical models, based on conservation laws systems and applications to fluid dynamics. (English summary) (*see* **2005b:76005**)

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Givoli, Dan *see* **van Joolen, Vince J. et al., 2005g:76086**

Gizzatkulov, N. M. A difference scheme for two-dimensional nonstationary equations of gas dynamics in a three-temperature approximation. (Russian. English and Russian summaries)

González, Hernán A. On predicting incompressible flows by using a stabilized finite difference method with penalty. (English summary) **2005e:76061**

Graur, I. A. Splitting difference schemes, constructed on the basis of quasi-gas-dynamic equations, for the solution of Euler equations. (Russian. Russian summary) **2005a:76111**

Gromyko, G. F. *see* **Popova, Liuba Ivanova et al., 2005k:76088**

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Gupta, Murli M. (*with* Kalita, Jiten C.) A new paradigm for solving Navier-Stokes equations: streamfunction-velocity formulation. (English summary) **2005k:76087**

Gurski, K. F. An HLLC-type approximate Riemann solver for ideal magnetohydrodynamics. (English summary) **2005c:76067**

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Hsieh, L. W. *see* **Sheu, Tony W. H. et al.**

Ivanchikov, A. A. *see* **Chizhonkov, E. V., 2005g:76084**

Jaouen, Stéphane *see* **Clarisse, Jean-Marie et al., 2005a:76109**

Johnston, Hans (*with* Liu, Jian-Guo[1]) Accurate, stable and efficient Navier-Stokes solvers based on explicit treatment of the pressure term. (English summary) **2005b:76093**

van Joolen, Vince J. (*with* Neta, Beny; Givoli, Dan) A stratified dispersive wave model with high-order nonreflecting boundary conditions. (English summary) **2005g:76086**

Kaladze, T. (*with* Rogava, Dzh. L.; Tsamalashvili, L.; Tsiklauri, Mikheil) First- and second-order accurate implicit difference schemes for the Charney-Obukhov equation. (English summary) **2005b:76094**

Kalita, Jiten C. *see* **Gupta, Murli M., 2005k:76087**

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Kobayashi, Marcelo H. (*with* Pereira, José Manuel C.) A computational stream function method for two-dimensional incompressible viscous flows. (English summary) **2005j:76066**

Koren, Barry *see* **Miller, J. J. H. et al., 2005a:76112**

Krukier, Lev A. (*with* Lapshina, O. A.) Difference schemes for solving equations with dominant processes. (English summary) (*see* **2005i:65006**)

Kusano, Kanya *see* **Miyoshi, Takahiro, 2005m:76123**

Lapshina, O. A. *see* **Krukier, Lev A., (2005i:65006)**

Li, Shengtai An HLLC Riemann solver for magneto-hydrodynamics. (English summary)

Linnick, Mark N. (*with* Fasel, Hermann F.) A high-order immersed interface method for simulating unsteady incompressible flows on irregular domains. (English summary)

Liu, Jian-Guo[1] (*with* Wang, Wei-Cheng) Energy and helicity preserving schemes for hydro- and magnetohydro-dynamics flows with symmetry. (English summary)

— *see also* **Johnston, Hans, 2005b:76093**

Lötstedt, Per *see* **Brüger, Arnim et al., 2005f:76071**

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Miller, J. J. H. (*with* Shishkin, Grigorii I.; Koren, Barry; Shishkina, L. P.) Grid approximation of a singularly perturbed boundary value problem modelling heat transfer in the case of flow over a flat plate with suction of the boundary layer. (English summary) **2005a:76112**

Miyoshi, Takahiro (*with* Kusano, Kanya) A multi-state HLL approximate Riemann solver for ideal magnetohydrodynamics. (English summary) **2005m:76123**

Monaco, Roberto (*with* Pandolfi Bianchi, M.; Pieraccini, Sandra; Puppo, Gabriella) Numerical simulations of a reacting gas mixture at the hydrodynamic scale. (English summary) (*see* **2005c:00016**)

Navon, Ionel Michael *see* **Alekseev, A. K., 2005g:76083**

Neta, Beny *see* **van Joolen, Vince J. et al., 2005g:76086**

Nielsen, Eric J. (*with* Lu, James; Park, Michael A.; Darmofal, David L.) An implicit, exact dual adjoint solution method for turbulent flows on unstructured grids. (English summary) **2005c:76068**

Nilsson, Jonas *see* **Brüger, Arnim et al., 2005f:76071**

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Pakdil, Ozkan *see* **Rasulov, Mahir et al., 2005g:76087**

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Popov, Aleksandr Vladimirovich *see* **Zhukov, K. A., (2005b:00029)**

Popova, Liuba Ivanova (*with* Gromyko, G. F.; Tabakova, S. S.) Numerical solution of a nonlinear one-dimensional system of differential equations describing the motion of a free thin film. (Russian. Russian summary) **2005k:76088**

Puppo, Gabriella *see* **Monaco, Roberto et al., (2005c:00016)**

Qamar, Shamsul (*with* Warnecke, Gerald G.) Simulation of multicomponent flows using high order central schemes. (English summary) **2005a:76113**

Rao, Prasada A moving domain formulation for modeling two dimensional open channel transient flows. (English summary) **2005b:76095**

Rasulov, Mahir The finite differences scheme for the first order system of nonlinear differential equations in a class of discontinuous functions. (English summary) **2005b:76096**

— (*with* Aslan, Zafer; Pakdil, Ozkan) Finite differences method for shallow water equations in a class of discontinuous functions. (English summary) **2005g:76087**

Raviart, Pierre-Arnaud *see* **Clarisse, Jean-Marie et al., 2005a:76109**

Rogava, Dzh. L. *see* **Kaladze, T. et al., 2005b:76094**

Salem, Salem A. Numerical simulations for the contraction flow using grid generation. (English summary) **2005c:76069**

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— (*with* Guntaka, A.; Dey, S.) Navier-Stokes solution by new compact scheme for incompressible flows. (English summary)

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Shishkina, L. P. *see* **Miller, J. J. H. et al., 2005a:76112**

Shu, Chi-Wang *see* **Xing, Yulong, 2005m:76125**

Shukla, Ratnesh K. (*with* Zhong, Xiaolin) Derivation of high-order compact finite difference schemes for non-uniform grid using polynomial interpolation. (English summary)

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Wu, Chin-Hsien *see* **Yuan, Hengliang**

Wu, Zi-Niu A model study for the steady state error of numerical approximations of inviscid flow equations on Cartesian grid. (English summary)
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Zhukov, K. A. (*with* Popov, Aleksandr Vladimirovich) An efficient difference scheme for the unsteady motion of a viscous weakly compressible gas. (Russian. Russian summary) (*see* **2005b:00029**)

Items with secondary classifications in 76M20

Abgrall, Rémi (*with* Andrianov, Nikolai; Mezine, M.) Towards very high-order accurate schemes for unsteady convection problems on unstructured meshes. (English summary) **2005j:65078**
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Adimurthi (*with* Jaffré, Jérôme; Veerappa Gowda, G. D.) Godunov-type methods for conservation laws with a flux function discontinuous in space. (English summary) **2005c:65066**
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Aregba-Driollet, D. (*with* Diele, Fasma; Natalini, Roberto) A mathematical model for the sulphur dioxide aggression to calcium carbonate stones: numerical approximation and asymptotic analysis. (English summary) **2005g:65120**
Aslan, Yaşar *see* **Öziş, Turgut, 2005h:76030**
Axelsson, Axel Ove Holger (*with* Gololobov, S. V.) A combined method of local Green's functions and central difference method for singularly perturbed convection-diffusion problems. (English summary) **2005d:65181**
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— *see also* **Fishelov, D. et al., (2005g:65008)**
Berres, Stefan (*with* Bürger, Raimund; Karlsen, Kenneth H.) Central schemes and systems of conservation laws with discontinuous coefficients modeling gravity separation of polydisperse suspensions. (English summary) **2005c:65068**
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Bouchut, François Entropy satisfying flux vector splittings and kinetic BGK models. (English summary) **2005e:65129**
— A reduced stability condition for nonlinear relaxation to conservation laws. (English summary) **2005k:35258**
Brandenburg, Axel Computational aspects of astrophysical MHD and turbulence. **2005c:85001**
Brufau, P. (*with* García-Navarro, P.; Vázquez-Cendón, María Elena) Zero mass error using unsteady wetting-drying conditions in shallow flows over dry irregular topography. (English summary) **2005b:86005**
Bubenchikov, A. M. (*with* Firsov, D. K.; Kotovshchikova, M. A.) A viscous laminar flow in curved channels of complicated cross-section. (Russian. English and Russian summaries)
Bürger, Raimund (*with* Karlsen, Kenneth H.; Risebro, Nils Henrik; Towers, John D.) Monotone difference approximations for the simulation of clarifier-thickener units. (English summary) **2005c:65070**
— *see also* **Berres, Stefan et al., 2005c:65068**
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Catalano, L. A. (*with* Dadone, A.; Daloiso, V. S. E.) Progressive optimization on unstructured grids using multigrid-aided finite-difference sensitivities. (English summary)
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— An approximate two-dimensional Riemann solver for hyperbolic systems of conservation laws. (English summary) **2005m:65168**
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Kantur, Olga (*with* Tsybulin, Vyacheslav) Numerical study of convection of multi-

component fluid in porous medium. (English summary) (*see* **2005j:65003**)

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Mamaloukas, Ch. Numerical solution of the flow of a viscous conducting fluid produced by an oscillating plane wall subjected to a transverse magnetic field. (English summary) (*see* **2005i:00015**)

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Peskin, Charles S. *see* **Lim, Sookkyung, 2005f:74029**

Petrova, Guergana *see* **Karni, Smadar et al., 2005g:65124**

Pilliod, James Edward, Jr. (*with* Puckett, Elbridge Gerry) Second-order accurate volume-of-fluid algorithms for tracking material interfaces. (English summary) **2005d:65145**

Pirozzoli, Sergio Dynamics of ring vortices impinging on planar shock waves. (English summary) **2005a:76097**

Polevikov, Viktor K. Methods for numerical modeling of two-dimensional capillary surfaces. (English summary) **2005i:76045**

Popov, Viktor Nikolaevich (*with* Tsivinskaya, Yu. S.; Gaĭnova, I. A.) On one finite difference algorithm for solving Navier-Stokes equations. (*see* **2005i:65006**)

Proskurowski, Wlodek *see* **Kim, Dongjin, 2005g:65125**

Protopopova, T. V. *see* **Voevodin, A. F., (2005i:65006)**

Prusa, Joseph M. *see* **Smolarkiewicz, Piotr K., 2005j:86003**

Puckett, Elbridge Gerry *see* **Pilliod, James Edward, Jr., 2005d:65145**

Puigjaner, D. (*with* Herrero, Joan; Giralt, Francesc; Simó, C.) Stability analysis of the flow in a cubical cavity heated from below. (English summary) **2005e:76043**

Qin, Meng Zhao *see* **Sun, Ya-juan, 2005b:37201**

Quaranta, G. *see* **Quartapelle, L. et al., 2005a:76136**

Quartapelle, L. (*with* Castelletti, L.; Guardone, A.; Quaranta, G.) Solution of the Riemann problem of classical gasdynamics. (English summary) **2005a:76136**

Raptis, A. A. *see* **Bég, O. Anwar et al., 2005k:76129**

Risebro, Nils Henrik *see* **Bürger, Raimund et al., 2005c:65070**

Rogava, Dzh. L. *see* **Kaladze, T. et al., 2005b:86030**

Roy, Satyajit *see* **Anilkumar, D., 2005b:76125**

Ruuth, Steven J. (*with* Hundsdorfer, Willem) High-order linear multistep methods with general monotonicity and boundedness properties. (English summary) **2005m:65143**

Sağlam, Mustafa *see* **Bahadır, A. Refik, 2005i:65115**

Samarskiĭ, Aleksandr Andreevich (*with* Vabishchevich, Petr N.) Solving problems of an incompressible fluid with a variable viscosity. (English summary) (*see* **2005c:65004**)

Schultz, David H. *see* **Siriwardana, N.**

Seaïd, Mohammed (*with* Klar, Axel; Dubroca, Bruno) Flux limiters in the coupling of radiation and hydrodynamic models. (English summary)

Sekhar, T. V. S. (*with* Sivakumar, R.; Kumar, Harish) Numerical study of the steady flow past a sphere in an aligned magnetic field. (English summary) **2005i:76128**

Sermeus, K. (*with* Deconinck, Herman) An entropy fix for multi-dimensional upwind residual distribution schemes. (English summary) **2005k:65182**

Shaidurov, V. V. (*with* Shchepanovskaya, G. I.) Solution to viscous heat-conductive gas equations based on multiprocessor computer system. (*see* **2005i:65006**)

Shao, Changcheng *see* **Yoshino, Masato et al.**

Shchepanovskaya, G. I. *see* **Shaidurov, V. V., (2005i:65006)**

Shen, Colin Y. (*with* Evans, Thomas E.) A free-surface hydrodynamic model for density-stratified flow in the weakly to strongly non-hydrostatic regime. (English summary) **2005e:76015**

Sheretov, Yu. V. *see* **Elizarova, T. G. et al., 2005b:76137**

Shirobokov, D. A. *see* **Tolstykh, Andrei I., 2005j:41017**

Shishkin, Grigorii I. Discrete approximations of solutions and derivatives for a singularly perturbed parabolic convection-diffusion equation. **2005f:65109**

— Limitations of adaptive mesh refinement techniques for singularly perturbed problems with a moving interior layer. (English summary) **2005e:65121**

Shu, Chang[1] *see* **Chen, Hong Quan, 2005m:76133**

Shu, Chi-Wang *see* **Xu, Zhengfu, 2005m:65186**

Sikwila, Stephen *see* **Hegarty, Alan F. et al., 2005a:76058**

Simó, C. *see* **Puigjaner, D. et al., 2005e:76043**

Siriwardana, N. (*with* Schultz, David H.) A high order method to solve the steady state Navier Stokes equations. (English summary)

Sivakumar, R. *see* **Sekhar, T. V. S. et al., 2005i:76128**

Smolarkiewicz, Piotr K. (*with* Prusa, Joseph M.) Towards mesh adaptivity for geophysical turbulence: continuous mapping approach. (English summary) **2005j:86003**

Sokolov, V. O. Investigation of the spectrum of matrices obtained as a result of central-difference approximation of the convection-diffusion equation. (Russian) (*see* **2005b:00029**)

Sopta, Luka *see* **Črnjarić-Žic, Nelida et al., 2005m:65164**

de Sousa, F. S. (*with* Mangiavacchi, Norberto; Nonato, L. G.; Castelo, A.; Tomé, M. F.; Ferreira, V. G.; Cuminato, J. A.; McKee, Sean) A front-tracking/front-capturing method for the simulation of 3D multi-fluid flows with free surfaces. (English summary) **2005b:76099**

Subbotina, T. N. Comparison of triangular difference schemes with methods of a high order of accuracy for the solution of the convection-diffusion equation. (Russian) (*see* **2005b:00029**)

Sun, Che (*with* Cao, Song) Economical finite difference-streamline diffusion method for convection-dominated diffusion problems. (Chinese. English summary) **2005j:65117**

Sun, Ya-juan (*with* Qin, Meng Zhao) A multi-symplectic scheme for RLW equation. (English summary) **2005b:37201**

Sweby, Peter K. *see* **Hudson, Justin, 2005k:65174**

Takhar, H. S. *see* **Bég, O. Anwar et al., 2005k:76129**

Tam, Christopher K. W. Computational aeroacoustics: an overview of computational challenges and applications. (English summary) **2005b:76124**

Tanaka, Nobuatsu (*with* Motoyama, Yasunori) Error estimation of numerical solutions of linear convection-diffusion problem. (English summary) **2005i:65134**

Tang, Yun-Hai A high-order streamline Godunov scheme for steady hypersonic chemical nonequilibrium expanding flows. (English summary) **2005a:92023**

Temam, Roger *see* **Gottlieb, David, 2005a:76157**

Tolstykh, Andrei I. (*with* Shirobokov, D. A.) Using radial basis function in a "finite difference mode". (English summary) **2005j:41017**

Tomé, M. F. *see* **de Sousa, F. S. et al., 2005b:76099** *and* **McKee, Sean et al., 2005d:65143**

Tone, Florentina Error analysis for a second order scheme for the Navier-Stokes equations. (English summary) **2005b:65101**

Towers, John D. *see* **Bürger, Raimund et al., 2005c:65070**

Tsamalashvili, L. *see* **Kaladze, T. et al., 2005b:86030**

Tsiklauri, Mikheil *see* **Kaladze, T. et al., 2005b:86030**

Tsivinskaya, Yu. S. *see* **Popov, Viktor Nikolaevich et al., (2005i:65006)**

Tsybulin, Vyacheslav *see* **Kantur, Olga, (2005j:65003)**

Uhlmann, Markus An immersed boundary method with direct forcing for the simulation of particulate flows. (English summary)

Ungarish, Marius Dam-break release of a gravity current in a stratified ambient. (English summary) **2005m:76032**

Vabishchevich, Petr N. *see* **Gaspar, Francisco J. et al., 2005i:76103** *and* **Samarskiĭ, Aleksandr Andreevich, (2005c:65004)**

Vasilevskiĭ, Yu. V. *see* **Lacroix, Sébastien et al., 2005e:65039**

Vázquez-Cendón, María Elena *see* **Brufau, P. et al., 2005b:86005**

Veerappa Gowda, G. D. *see* **Adimurthi et al., 2005c:65066**

Venkataraman, V. (*with* Kannan, K.) Numerical solution of Stokes problem for free convection effects in dissipative dusty medium. (English summary) **2005k:76125**

Voevodin, A. F. (*with* Protopopova, T. V.) The use of higher-order schemes to compute

viscous incompressible flows. (*see* **2005i:65006**)
Vuković, Senka *see* **Črnjarić-Žic, Nelida et al., 2005m:65164**
Wahlund, Per *see* **Gustafsson, Bertil, 2005k:65170**
Wang, Cheng[4] Convergence analysis of the numerical method for the primitive equations formulated in mean vorticity on a Cartesian grid. (English summary) **2005m:76184**
— (*with* Liu, Jian-Guo[1]; Johnston, Hans) Analysis of a fourth order finite difference method for the incompressible Boussinesq equations. (English summary) **2005b:65097**
Wang, Tong Ke (*with* Ma, Ming Shu) A family of second-order characteristic difference schemes for two-dimensional convection-diffusion equations. (Chinese. English and Chinese summaries) **2005j:65098**
— (*with* Zhang, Li Xia) A new Crank-Nicolson difference scheme and its alternating direction method for convection-diffusion equations. (Chinese. English summary) **2005i:65125**
Wen, Xin[2] *see* **Jin, Shi, 2005h:65133**
Westerlund, Johan *see* **Müller, Bernhard, (2005b:00020)**
Wheeler, John Archibald *see* **Lacroix, Sébastien et al., 2005e:65039**
Wheeler, Mary Fanett *see* **Lacroix, Sébastien et al., 2005e:65039**
Xu, Zhengfu (*with* Shu, Chi-Wang) Anti-diffusive flux corrections for high order finite difference WENO schemes. (English summary) **2005m:65186**
Yang, Qing[3] A finite difference scheme of second order for contamination by nuclear waste disposal in porous media. (Chinese. English and Chinese summaries) **2005i:65127**
Yang, Tong (*with* Zhao, Hui-Jiang) BV estimates on Lax-Friedrichs' scheme for a model of radiating gas. (English summary) **2005e:65124**
Yoshino, Masato (*with* Matsuda, Yoshi; Shao, Changcheng) Comparison of accuracy and efficiency between the lattice Boltzmann method and the finite difference method in viscous/thermal fluid flows. (English summary)
You, Tong Shun The ENO-MMOCAA finite difference method for a convection-diffusion equation. (Chinese. English and Chinese summaries) **2005i:65128**
— Three-step UNO-MMOCAA difference method for convection diffusion equation. (English summary) **2005f:65117**
Zhang, Guan Quan *see* **Liu, Jun[4], 2005e:35254**
Zhang, Li Xia *see* **Wang, Tong Ke, 2005i:65125**
Zhang, Qiang[3] Splitting scheme of finite-difference streamline diffusion method for linear convection-diffusion equation. (English summary) **2005e:65152**
Zhao, Hui-Jiang *see* **Yang, Tong, 2005e:65124**
Zhao, Kai[3] *see* **Liu, Xiao Yu[1] et al., 2005h:65137**
Zherikov, A. V. *see* **Elizarova, T. G. et al., 2005b:76137**
Zijl, Wouter Face-centered and volume-centered discrete analogs of the exterior differential equations governing porous medium flow. I. Theory. (English summary) **2005m:76178**
— Face-centered and volume-centered discrete analogs of the exterior differential equations governing porous medium flow. II. Examples. (English summary) **2005m:76179**
Zlotnik, A. A. *see* **Gileva, V. V., 2005i:65119**

76M22 Spectral methods

Bunge, Hans-Peter *see* **Fournier, Alexandre et al., 2005k:76090**
Clercx, H. J. H. *see* **Speetjens, M. F. M., 2005m:76127**
Deville, Michel O. *see* **Manna, Marcello et al., 2005f:76073**
Diamessis, P. J. (*with* Domaradzki, J. A.; Hesthaven, Jan S.) A spectral multidomain penalty method model for the simulation of high Reynolds number localized incompressible stratified turbulence. (English summary)
Ding, Su Zhen *see* **Wang, He Yuan et al.**
Domaradzki, J. A. *see* **Diamessis, P. J. et al.**
Drake, John B. *see* **Guo, Daniel X., 2005m:76126**
Fournier, Alexandre (*with* Bunge, Hans-Peter; Hollerbach, Rainer; Vilotte, Jean-Pierre) A Fourier-spectral element algorithm for thermal convection in rotating axisymmetric containers. (English summary) **2005k:76090**
Guo, Daniel X. (*with* Drake, John B.) A global semi-Lagrangian spectral model of the shallow water equations with variable resolution. (English summary) **2005m:76126**
Hesthaven, Jan S. *see* **Diamessis, P. J. et al.**
Hollerbach, Rainer *see* **Fournier, Alexandre et al., 2005k:76090**
Ismail, Galal *see* **Ismail, I. A. et al., 2005g:76089**
Ismail, I. A. (*with* Ismail, Galal; Sedqi, A. M.) A computational method for solving the branched channel flow problem. (English summary) **2005g:76089**
Kondaxakis, Dimitris (*with* Tsangaris, Sokrates) A weak Legendre collocation spectral method for the solution of the incompressible Navier-Stokes equations in unstructured quadrilateral subdomains. (English summary) **2005a:76114**
Li, Kai Tai *see* **Wang, He Yuan et al., 2005a:76115**
Manna, Marcello (*with* Vacca, Andrea; Deville, Michel O.) Preconditioned spectral multidomain discretization of the incompressible Navier-Stokes equations. (English summary) **2005f:76073**
van Os, R. G. M. (*with* Phillips, T. N.) Spectral element methods for transient viscoelastic flow problems. (English summary) **2005f:76074**
Phillips, T. N. *see* **van Os, R. G. M., 2005f:76074**
Rashid, Abdur A spectral method for the Navier-Stokes equations on the spherical surface. (English summary) **2005k:76091**
Sedqi, A. M. *see* **Ismail, I. A. et al., 2005g:76089**
Speetjens, M. F. M. (*with* Clercx, H. J. H.) A spectral solver for the Navier-Stokes equations in the velocity-vorticity formulation. (English summary) **2005m:76127**
Tsangaris, Sokrates *see* **Kondaxakis, Dimitris, 2005a:76114**
Vacca, Andrea *see* **Manna, Marcello et al., 2005f:76073**
Vilotte, Jean-Pierre *see* **Fournier, Alexandre et al., 2005k:76090**
Wang, He Yuan (*with* Li, Kai Tai; Zhang, Yindi) Spectral approximation of TB point of the Navier-Stokes equations in two concentric rotating spheres. (English summary) **2005a:76115**
— (*with* Ding, Su Zhen; Xi, Zhu You) Numerical simulation of spherical Couette flow. (Chinese. English and Chinese summaries)
Xi, Zhu You *see* **Wang, He Yuan et al.**
Zhang, Yindi *see* **Wang, He Yuan et al., 2005a:76115**

Items with secondary classifications in 76M22

Abdellatif, Nehla (*with* Bernardi, Christine) A new formulation of the Stokes problem in a cylinder, and its spectral discretization. (English summary) **2005k:76028**
Bec, Jérémie *see* **Matsumoto, Takeshi[1] et al., 2005m:76022**
Bernard, Jean-Marie Spectral discretizations of the Stokes equations with non standard boundary conditions. (English summary) **2005c:65108**
Bernardi, Christine *see* **Abdellatif, Nehla, 2005k:76028**
Bonnefoy, Félicien (*with* Le Touzé, David; Ferrant, Pierre) A nonlinear spectral model for gravity waves generation and propagation in a bounded domain. (English summary) (*see* **2005b:00020**)
Brachet, M.-E. *see* **Cichowlas, C., 2005k:76012**
Cherkaoui Malki, Mohammed Ouçamah (*with* Sayouri, Salaheddine) Quasi spectral data construction in two points in partially nonhomogeneous turbulence. (English summary) **2005i:76065**
Choi, Wooyoung *see* **Li, Yi A. et al., 2005d:76005**
Cichowlas, C. (*with* Brachet, M.-E.) Evolution of complex singularities in Kida-Pelz and Taylor-Green inviscid flows. (English summary) **2005k:76012**
Costa, Bruno Spectral methods for partial differential equations. (English summary) **2005k:65268**
Delcarte, C. *see* **Nguyen, Sébastien, 2005f:65162**
Dennis, John M. *see* **Thomas, Stephen J. et al., 2005e:65157**
Dmitruk, Pablo (*with* Montgomery, David C.) Numerical study of the decay of enstrophy in a two-dimensional Navier-Stokes fluid in the limit of very small viscosities. (English summary) **2005k:76059**
Ferrant, Pierre *see* **Bonnefoy, Félicien et al., (2005b:00020)**
Filbet, Francis (*with* Pareschi, Lorenzo; Toscani, Giuseppe) Accurate numerical methods for the collisional motion of (heated) granular flows. (English summary) **2005g:82122**
Fischer, Paul F. *see* **Thomas, Stephen J. et al., 2005e:65157**
Frisch, Uriel *see* **Matsumoto, Takeshi[1] et al., 2005m:76022**
Gerritsma, Marc I. *see* **Proot, Michael M. J., 2005m:76050**
Hyman, James M. *see* **Li, Yi A. et al., 2005d:76005**
Johnston, Hans (*with* Liu, Jian-Guo[1]) Accurate, stable and efficient Navier-Stokes solvers based on explicit treatment of the pressure term. (English summary) **2005b:76093**
Labrosse, Gérard *see* **Leriche, E., 2005m:76056**
Leriche, E. (*with* Labrosse, Gérard) Fundamental Stokes eigenmodes in the square: which expansion is more accurate, Chebyshev or Reid-Harris? (English summary) **2005m:76056**
Le Touzé, David *see* **Bonnefoy, Félicien et al., (2005b:00020)**
Li, Kai Tai *see* **Wang, He Yuan, 2005i:65150**
Li, Xiao Mei *see* **Zhang, Li Lun et al., 2005e:65158**
Li, Yi A. (*with* Hyman, James M.; Choi, Wooyoung) A numerical study of the exact evolution equations for surface waves in water of finite depth. (English summary) **2005d:76005**
Liu, Jian-Guo[1] *see* **Johnston, Hans, 2005b:76093**
Louter-Nool, Margreet (*with* Proot, Michael M. J.) A parallel least-squares spectral element solver for incompressible flow problems on unstructured grids. (English summary) **2005m:65290**
Márquez Gentil, Antonio *see* **Meddahi, Salim et al., 2005b:65129** *and* (2005b:00020)
Matsumoto, Takeshi[1] (*with* Bec, Jérémie; Frisch, Uriel) The analytic structure of 2D Euler flow at short times. (English summary) **2005m:76022**
Meddahi, Salim (*with* Márquez Gentil, Antonio; Selgas, Virginia) A coupling of spectral and finite elements for an acoustic scattering problem. (*see* **2005b:00020**)
— (*with* Márquez Gentil, Antonio; Selgas, Virginia) Computing acoustic waves in an inhomogeneous medium of the plane by a coupling of spectral and finite elements. (English summary) **2005b:65129**
Mehdizadeh, Omid Z. (*with* Paraschivoiu, Marius) Investigation of a three-dimensional spectral element method for Helmholtz's equation. (English summary) (*see* **2005g:65009**)
Montgomery, David C. *see* **Dmitruk, Pablo, 2005k:76059**
Nguyen, Sébastien (*with* Delcarte, C.) A spectral collocation method to solve Helmholtz problems with boundary conditions involving mixed tangential and normal derivatives. (English summary) **2005f:65162**
Olagunju, David O. A fourth-order eigenvalue problem arising in viscoelastic flow. (English summary)
Paraschivoiu, Marius *see* **Mehdizadeh, Omid Z., (2005g:65009)**
Pareschi, Lorenzo *see* **Filbet, Francis et al., 2005g:82122**
Pontaza, J. P. (*with* Reddy, J. N.) Space-time coupled spectral/*hp* least-squares finite element formulation for the incompressible Navier-Stokes equations. (English summary) **2005a:76104**
Proot, Michael M. J. (*with* Gerritsma, Marc I.) Application of the least-squares spectral element method using Chebyshev polynomials to solve the incompressible Navier-Stokes equations. (English summary) **2005m:76050**
— *see also* **Louter-Nool, Margreet, 2005m:65290**
Rashid, Abdur (*with* Yuan, Li[2]) Convergence analysis of pseudospectral method with restraint operator for fluid flow with low Mach number. (English summary) **2005e:65156**
Reddy, J. N. *see* **Pontaza, J. P., 2005a:76104**
Sayouri, Salaheddine *see* **Cherkaoui Malki, Mohammed Ouçamah, 2005i:76065**
Selgas, Virginia *see* **Meddahi, Salim et al., 2005b:65129** *and* (2005b:00020)
Song, Jun Qiang *see* **Zhang, Li Lun et al., 2005e:65158**
St-Cyr, Amik (*with* Thomas, Stephen J.) Nonlinear operator integration factor splitting for the shallow water equations. (English summary) **2005k:65216**
Thomas, Stephen J. (*with* Dennis, John M.; Tufo, Henry M.; Fischer, Paul F.) A Schwarz preconditioner for the cubed-sphere. (English summary) **2005e:65157**
— *see also* **St-Cyr, Amik, 2005k:65216**
Toscani, Giuseppe *see* **Filbet, Francis et al., 2005g:82122**
Tufo, Henry M. *see* **Thomas, Stephen J. et al., 2005e:65157**
Wang, He Yuan (*with* Li, Kai Tai) Spectral Galerkin approximation of Couette-Taylor flow. (Chinese. English and Chinese summaries) **2005i:65150**
Yuan, Li[2] *see* **Rashid, Abdur, 2005e:65156**
Zhang, Li Lun (*with* Song, Jun Qiang; Li, Xiao Mei) Semi-implicit discretization of 2-D shallow water equations based on spectral element method and its parallel computing.

(Chinese. English summary) **2005e:65158**

76M23 Vortex methods

Allen, C. B. *see* **Barba, L. A. et al., 2005h:76062** *and* **2005i:76081**
Baker, Gregory R. (*with* Beale, J. Thomas) Vortex blob methods applied to interfacial motion. (English summary) **2005e:76063**
Barba, L. A. (*with* Leonard, Anthony; Allen, C. B.) Advances in viscous vortex methods—meshless spatial adaption based on radial basis function interpolation. (English summary) **2005h:76062**
— (*with* Leonard, Anthony; Allen, C. B.) Vortex method with meshless spatial adaption for accurate simulation of viscous, unsteady vortical flows. (English summary) **2005i:76081**
Beale, J. Thomas *see* **Baker, Gregory R., 2005e:76063**
Hermann, Marcus A Eulerian level set/vortex sheet method for two-phase interface dynamics. (English summary) **2005i:76082**
Huang, Mei-Jiau Diffusion via splitting and remeshing via merging in vortex methods. (English summary) **2005m:76128**
Leonard, Anthony *see* **Barba, L. A. et al., 2005h:76062** *and* **2005i:76081**
Sohn, Sung-Ik Vortex simulations of impulsively accelerated unstable interface. (English summary)

Items with secondary classifications in 76M23

Constantin, Peter Filtered viscous fluid equations. (English summary) **2005b:76036**
Dimitroglo, M. G. (*with* Lifanov, Ivan K.; Setukha, A. V.) On numerical modelling of a three-dimensional flow past a wing with external flow suction and on the effect of flow suction on trailing vortices. (English summary) **2005b:76079**
Iima, Makoto (*with* Yanagita, Tatsuo) Asymmetric motion of a two-dimensional symmetric flapping model. (English summary) **2005m:76208**
Jones, Marvin A. The separated flow of an inviscid fluid around a moving flat plate. (English summary) **2005i:76026**
Judge, C. (*with* Troesch, Armin W.; Perlin, Marc) Initial water impact of a wedge at vertical and oblique angles. (English summary) **2005a:76013**
Koumoutsakos, Petros Multiscale flow simulations using particles. (English summary) **2005i:76085**
Lifanov, Ivan K. *see* **Dimitroglo, M. G. et al., 2005b:76079**
Perlin, Marc *see* **Judge, C. et al., 2005a:76013**
Setukha, A. V. *see* **Dimitroglo, M. G. et al., 2005b:76079**
Troesch, Armin W. *see* **Judge, C. et al., 2005a:76013**
Yanagita, Tatsuo *see* **Iima, Makoto, 2005m:76208**

76M25 Other numerical methods

Abgrall, Rémi (*with* Saurel, Richard) Un modèle numérique pour la simulation d'écoulements multiphasiques compressibles. (French summary) [A numerical method for simulating compressible multiphase flows] **2005m:76129**
Abide, Stéphane (*with* Viazzo, Stéphane) A 2D compact fourth-order projection decomposition method. (English summary) **2005k:76092**
Adams, Nikolaus A. *see* **Schlatter, P. et al., 2005k:76102**
Agoshkov, V. I. Iterative processes for some boundary value problems of hydrodynamics. (English summary) **2005c:76070**
Alexander, Pedro High order computation of the history term in the equation of motion for a spherical particle in a fluid. (English summary) **2005a:76116**
Anderson, Anthony (*with* Zheng, Xiaoming; Cristini, Vittorio) Adaptive unstructured volume remeshing. I. The method. (English summary) **2005m:76130**
— *see also* **Zheng, Xiaoming et al., 2005m:76131**
Anderson, Robert W. (*with* Elliott, N. S.; Pember, R. B.) An arbitrary Lagrangian-Eulerian method with adaptive mesh refinement for the solution of the Euler equations. (English summary) **2005d:76029**
Angelberger, C. *see* **Moureau, V. et al., 2005m:76138**
Ansari, Ali R. (*with* Shishkin, Grigorii I.) A Reynolds-uniform numerical method for oscillating flow through a pipe. (English summary) (*see* **2005i:65006**)
Arina, Renzo (*with* Falossi, Marco) Domain decomposition technique for aeroacoustic simulations. (English summary)
— Numerical simulation of near-critical fluids. (English summary) **2005g:76090**
Asıl, Vedat *see* **Bulut, Hasan et al., 2005a:76118**
Aulisa, Eugenio (*with* Manservisi, Sandro; Scardovelli, Ruben) A surface marker algorithm coupled to an area-preserving marker redistribution method for three-dimensional interface tracking. (English summary) **2005a:76117**
Avital, E. J. A second look at the role of the fast Fourier transform as an elliptic solver. (English summary)
Baboolal, S. A high-resolution numerical fluid simulation of plasma sheaths. (English summary)
— *see also* **Naidoo, R.**
Basdevant, C. *see* **Couplet, M. et al., 2005k:76094**
Baum, Joseph D. *see* **Löhner, Rainald**
Bause, Markus Computational study of field scale BTEX transport and biodegradation in the subsurface. (English summary) (*see* **2005j:65003**)
Bécache, Eliane (*with* Bonnet-Ben Dhia, Anne-Sophie; Legendre, Guillaume) Perfectly matched layers for the convected Helmholtz equation. (*see* **2005b:00020**)
Bermúdez, Blanca *see* **Nicolás, Alfredo**
Bijl, H. *see* **Duivesteijn, G. F. et al.**
Bokor, Rózsa Horváth *see* **Bulut, Hasan et al., 2005a:76118**
Bonnet-Ben Dhia, Anne-Sophie *see* **Bécache, Eliane et al., (2005b:00020)**
Book, David L. The conception, gestation, birth, and infancy of FCT. (English summary)
Boris, Jay P. *see* **Patnaik, Gopal et al.**
Bouchon, F. (*with* Clain, S.; Touzani, R.) Numerical solution of the free boundary Bernoulli problem using a level set formulation. (English summary) **2005m:76132**
Bouillard, Philippe (*with* Lacroix, Valéry; De Bel, Eric) A meshless approach for 2D vibro-acoustic problems. (*see* **2005f:74002**)
van Brummelen, E. H. *see* **Duivesteijn, G. F. et al.**
Buchner, B. *see* **Kleefsman, K. M. T. et al., 2005k:76098**
Bulanov, S. V. *see* **Kostomarov, Dmitriĭ Pavlovich et al., (2005b:76005)**
Bulut, Hasan (*with* Ergüt, Mahmut; Asıl, Vedat; Bokor, Rózsa Horváth) Numerical solution of a viscous incompressible flow problem through an orifice by Adomian decomposition method. (English summary) **2005a:76118**
Caboussat, Alexandre (*with* Picasso, Marco; Rappaz, Jacques) Numerical simulation of free surface incompressible liquid flows surrounded by compressible gas. (English summary) **2005j:76067**
Cai, Xiao-Chuan *see* **Hwang, Feng-Nan, 2005k:76096**
Caltagirone, Jean-Paul *see* **Vincent, Stéphane et al., 2005e:76065**
Calugaru, Dan-Gabriel (*with* Tromeur-Dervout, Damien) Aitken acceleration of Dirichlet-Neumann algorithm for flow in porous media with discontinuous permeability. (English summary) (*see* **2005b:76005**)
Caraeni, D. (*with* Fuchs, László[2]) Compact third-order multidimensional upwind discretization for steady and unsteady flow simulations. (English summary) **2005k:76093**
Castelo, A. *see* **de Sousa, F. S. et al., 2005b:76099**
Chen, Hong Quan (*with* Shu, Chang[1]) An efficient implicit mesh-free method to solve two-dimensional compressible Euler equations. (English summary) **2005m:76133**
Chen, Zhangxin *see* **Li, Wen Jun[3] et al.**
Chigerev, E. N. *see* **Tolstykh, Andrei I. et al., (2005b:76005)**
Churbanov, A. G. (*with* Vabishchevich, Petr N.) Domain decomposition techniques to solve the Navier-Stokes equations. (English summary) (*see* **2005b:76005**)
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Colonius, Tim Modeling artificial boundary conditions for compressible flow. (English summary) **2005a:76119**
Colonna, P. (*with* Rebay, S.) Numerical simulation of dense gas flows on unstructured grids with an implicit high resolution upwind Euler solver. (English summary) **2005f:76075**
Cotter, Colin John (*with* Frank, Jason; Reich, Sebastian) Hamiltonian particle-mesh method for two-layer shallow-water equations subject to the rigid-lid approximation. (English summary) **2005a:76120**
Couplet, M. (*with* Basdevant, C.; Sagaut, P.) Calibrated reduced-order POD-Galerkin system for fluid flow modelling. (English summary) **2005k:76094**
Cristini, Vittorio *see* **Anderson, Anthony et al., 2005m:76130** *and* **Zheng, Xiaoming et al., 2005m:76131**
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De Bel, Eric *see* **Bouillard, Philippe et al., (2005f:74002)**
Ding, Hang *see* **Shu, Chang[1] et al.**
Diskin, Boris (*with* Thomas, James L.) New factorizable discretizations for the Euler equations. (English summary) **2005a:76121**
Duivesteijn, G. F. (*with* Bijl, H.; Koren, Barry; van Brummelen, E. H.) On the adjoint solution of the quasi-1D Euler equations: the effect of boundary conditions and the numerical flux function. (English summary)
Dutta, Srabasti (*with* Glimm, James; Grove, John W.; Sharp, David H.; Zhang, Yongmin) Error comparison in tracked and untracked spherical simulations. (English summary) **2005g:76091**
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Echkina, E. Y. *see* **Kostomarov, Dmitriĭ Pavlovich et al., (2005b:76005)**
Elizarova, T. G. (*with* Milyukova, O. Yu.) Parallel algorithm for numerical simulation of 3D incompressible flows. (English summary) (*see* **2005b:76005**)
Elliott, N. S. *see* **Anderson, Robert W. et al., 2005d:76029**
Ergüt, Mahmut *see* **Bulut, Hasan et al., 2005a:76118**
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Frank, A. M. ★ Дискретные модели несжимаемой жидкости. (Russian) [Discrete models of an incompressible fluid] **2005m:76134**
Frank, Jason *see* **Cotter, Colin John et al., 2005a:76120**
Fu, Shang Wu (*with* Dai, Zi Huan; Wu, Ji Ming; Shen, Long Jun) A pressure weighted method for a momentum equation. (Chinese. English summary) **2005h:76063**
Fuchs, László[2] *see* **Caraeni, D., 2005k:76093**
Fureby, Christer *see* **Grinstein, Fernando F.**
Galletta, Veronica (*with* Vittori, Giovanna) Nonlinear effects on edge wave development. (English summary) **2005e:76064**
Gao, Zhi *see* **Li, Ming Jun**
Garimella, Rao (*with* Kuchařík, Milan; Shashkov, M. Yu.) Efficient algorithm for local-bound-preserving remapping in ALE methods. (English summary) (*see* **2005j:65003**)
Gauthier, Alain (*with* Saleri, Fausto; Veneziani, Alessandro) A fast preconditioner for the incompressible Navier-Stokes equations. (English summary) **2005a:76122**
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Gil'manov, A. N. *see* **Il'gamov, M. A., 2005k:76097**
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— *see also* **Patnaik, Gopal et al.**
Grove, John W. *see* **Dutta, Srabasti et al., 2005g:76091**
Hagstrom, Thomas A new construction of perfectly matched layers for hyperbolic systems with applications to the linearized Euler equations. (*see* **2005b:00020**)
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Horváth, András *see* **Horváth, Zoltán[2], (2005j:65003)**
Horváth, Zoltán[2] (*with* Horváth, András) Numerical simulation of compressible fluids with moving boundaries: an effective method with applications. (English summary) (*see* **2005j:65003**)
Houzeaux, G. (*with* Codina, Ramon) ★ A geometrical domain decomposition method in computational fluid dynamics. (English and Spanish summaries) **2005b:76098**
Hu, Fang Q. A perfectly matched layer absorbing boundary condition for linearized Euler equations with a non-uniform mean flow. (English summary) **2005k:76095**

Huan, Guanren *see* **Li, Wen Jun[3] et al.**
Huang, Ming You *see* **Shi, Wei Ping[2] et al.**
Hwang, Feng-Nan (*with* Cai, Xiao-Chuan) A parallel nonlinear additive Schwarz preconditioned inexact Newton algorithm for incompressible Navier-Stokes equations. (English summary) **2005k:76096**
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Il′gamov, M. A. (*with* Gil′manov, A. N.) ★ Неотражающие условия на границах расчетной области. (Russian. Russian summary) [Nonreflecting conditions on the boundaries of the computational domain] **2005k:76097**
Iliescu, T. Genuinely nonlinear models for convection-dominated problems. (English summary) **2005h:76064**
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Iselin, John P. *see* **Patnaik, Gopal et al.**
Iske, Armin (*with* Käser, Martin) Two-phase flow simulation by AMMoC, an adaptive meshfree method of characteristics. (English summary)
Iwanowski, B. *see* **Kleefsman, K. M. T. et al., 2005k:76098**
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Kleefsman, K. M. T. (*with* Fekken, G.; Veldman, A. E. P.; Iwanowski, B.; Buchner, B.) A volume-of-fluid based simulation method for wave impact problems. (English summary) **2005k:76098**
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Kostomarov, Dmitriĭ Pavlovich (*with* Inovenkov, I. N.; Echkina, E. Y.; Leonenko, A. V.; Pavlova, O. A.; Bulanov, S. V.) Application of parallel programming method for 3D MHD computer simulations of magnetic reconnection in plasma. (English summary) (*see* **2005b:76005**)
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Kuttykozhaeva, Sh. N. (*with* Smagulov, Sh.; Tukenova, L.) Estimation of pressure boundary conditions with the fictitious domains method for viscous incompressible liquid equations. (English summary) (*see* **2005i:65006**)
Kuzmin, Dmitri (*with* Möller, Matthias) Algebraic flux correction. I. Scalar conservation laws. (English summary)
— (*with* Möller, Matthias) Algebraic flux correction. II. Compressible Euler equations. (English summary)
— *see also* **Turek, Stefan**
Lacroix, Valéry *see* **Bouillard, Philippe et al., (2005f:74002)**
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Le Maître, Olivier P. (*with* Knio, Omar M.; Najm, Habib N.; Ghanem, Roger G.) Uncertainty propagation using Wiener-Haar expansions. (English summary) **2005a:76123**
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Li, Ming Jun (*with* Gao, Zhi) Simplification of the fluid mechanics equations of strong viscous shear flow and a computational criterion. (Chinese. English and Chinese summaries)
Li, Wen Jun[3] (*with* Chen, Zhangxin; Ewing, Richard E.; Huan, Guanren; Li, Baoyan) Comparison of the GMRES and ORTHOMIN for the black oil model in porous media. (English summary)
Liao, Guojun *see* **Xue, Jiaxing**
Lipavskii, M. V. *see* **Tolstykh, Andrei I. et al., (2005b:76005)**
Lipnikov, K. (*with* Vasilevskiĭ, Yu. V.) Parallel adaptive solution of the Stokes and Oseen problems on unstructured 3D meshes. (English summary) (*see* **2005b:76005**)
Liu, Hsi-Chi *see* **Lai, Ming-Chih, 2005m:76135**
Liu, Miao Er (*with* Ren, Yu Xin; Zhang, Han Xin) A class of fully second order accurate projection methods for solving the incompressible Navier-Stokes equations. (English summary) **2005g:76092**
— (*with* Ren, Yu Xin; Zhang, Han Xin) Third-order projection method for solving the incompressible Navier-Stokes equations. (Chinese. English and Chinese summaries)
Löhner, Rainald (*with* Baum, Joseph D.) 30 years of FCT: status and directions. (English summary)
Loubère, Raphaël (*with* Shashkov, M. Yu.) A subcell remapping method on staggered polygonal grids for arbitrary-Lagrangian-Eulerian methods. (English summary) **2005k:76099**
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Manservisi, Sandro *see* **Aulisa, Eugenio et al., 2005a:76117**
Marella, S. (*with* Tran, L. B.; Udaykumar, H. S.) A level-set based sharp interface method for three-dimensional incompressible flows with complex moving boundaries. (English summary) (*see* **2005b:65003**)
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Mittal, Rajat (*with* Iaccarino, Gianluca) Immersed boundary methods. **2005m:76137**
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Naidoo, R. (*with* Baboolal, S.) A semi-discrete numerical solution of the plasma fluid equations and solitons. (English summary)
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Nicolás, Alfredo (*with* Bermúdez, Blanca) 2D incompressible viscous flows at moderate and high Reynolds numbers. (English summary)
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van der Pijl, Sander P. (*with* Segal, August; Vuik, C.) Modeling of multi-phase flows with a level-set method. (English summary) (*see* **2005j:65003**)
— (*with* Segal, August; Vuik, C.; Wesseling, P.) A mass-conserving level-set method for modelling of multi-phase flows. (English summary) **2005h:76065**
Poinsot, T. *see* **Moureau, V. et al., 2005m:76138**
Rahmouni, Adib N. An algebraic method to develop well-posed PML models. Absorbing layers, perfectly matched layers, linearized Euler equations. (English summary) **2005a:76124**
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Ren, Chun Feng (*with* Ma, Yi Chen; Ying, Gen Jun) A two-grid method for the unsteady Navier-Stokes equations with a penalty form. (Chinese. English summary) **2005k:76101**
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Shi, Wei Ping[2] (*with* Huang, Ming You; Wang, Ting; Zhang, Xiao-jiang) Explicit kinetic flux vector splitting scheme for the 2-D shallow water wave equations. (English summary)
Shishkin, Grigorii I. *see* **Ansari, Ali R., (2005i:65006)**
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Shu, Chang[1] (*with* Ding, Hang; Yeo, K. S.) Computation of incompressible Navier-Stokes equations by local RBF-based differential quadrature method. (English summary)
— *see also* **Chen, Hong Quan, 2005m:76133**
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de Sousa, F. S. (*with* Mangiavacchi, Norberto; Nonato, L. G.; Castelo, A.; Tomé, M. F.; Ferreira, V. G.; Cuminato, J. A.; McKee, Sean) A front-tracking/front-capturing method for the simulation of 3D multi-fluid flows with free surfaces. (English summary) **2005b:76099**
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Sundberg, S. (*with* von Sydow, Lina) Semi-Toeplitz preconditioning for the linearized Navier-Stokes equations. (English summary) **2005k:76103**
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Tanaka, Nobuatsu (*with* Kitayama, Tsutomu) Symplectic semi-Lagrangian schemes for

computational fluid dynamics. (English summary)

Tang, Hua-zhong (*with* Warnecke, Gerald G.) A Runge-Kutta discontinuous Galerkin method for the Euler equations. (English summary) **2005h:76066**

Tezduyar, Tayfun E. (*with* Sathe, Sunil) Enhanced-discretization successive update method (EDSUM). (English summary) **2005h:76067**

Thakur, Siddharth (*with* Wright, Jeffrey) A multiblock operator-splitting algorithm for unsteady flows at all speeds in complex geometries. (English summary)

Thomas, James L. *see* **Diskin, Boris**, **2005a:76121**

Tiwari, Sudarshan (*with* Kuhnert, Jörg) A meshfree method for incompressible fluid flows with incorporated surface tension. **2005f:76077**

Tolstykh, Andrei I. (*with* Lipavskii, M. V.; Chigerev, E. N.) On arbitrary-order schemes for parallel CFD calculations. (English summary) (*see* **2005b:76005**)

Tomé, M. F. *see* **de Sousa, F. S. et al.**, **2005b:76099**

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Tukenova, L. *see* **Kuttykozhaeva, Sh. N. et al.**, (**2005i:65006**)

Turek, Stefan (*with* Wan, Decheng; Rivkind, Liudmila S.) The fictitious boundary method for the implicit treatment of Dirichlet boundary conditions with applications to incompressible flow simulations. (English summary) (*see* **2005a:65001**)

— (*with* Kuzmin, Dmitri) Algebraic flux correction. III. Incompressible flow problems. (English summary)

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Werder, Thomas (*with* Walther, Jens H.; Koumoutsakos, Petros) Hybrid atomistic-continuum method for the simulation of dense fluid flows. (English summary)

Wertgeim, I. I. (*with* Zakharov, V. G.) Numerical methods and parallel algorithms for study of Burgers' turbulence. (English summary) (*see* **2005b:76005**)

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Wright, Jeffrey *see* **Thakur, Siddharth**

Wu, Ji Ming *see* **Fu, Shang Wu et al.**, **2005h:76063**

Wu, Yong Hong[1] (*with* Wiwatanapataphee, Benchawan; Yu, Xijun) An enthalpy control volume method for transient mass and heat transport with solidification. (English summary)

Xiu, Dongbin (*with* Karniadakis, George Em) Supersensitivity due to uncertain boundary conditions. (English summary) **2005f:76078**

— *see also* **Sirisup, Sirod et al.**, **2005m:76139**

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Zakharov, V. G. *see* **Wertgeim, I. I.**, (**2005b:76005**)

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Zhang, Yongmin *see* **Dutta, Srabasti et al.**, **2005g:76091**

Zheng, Xiaoming (*with* Lowengrub, John; Anderson, Anthony; Cristini, Vittorio) Adaptive unstructured volume remeshing. II. Application to two- and three-dimensional level-set simulations of multiphase flow. (English summary) **2005m:76131**

— *see also* **Anderson, Anthony et al.**, **2005m:76130**

Zhou, Xiao Lin[1] (*with* He, Yinnian) Using divergence free wavelets for the numerical solution of the 2-D stationary Navier-Stokes equations. (English summary) **2005j:76069**

Items with secondary classifications in 76M25

Abbasov, Hummat M. Correctness of a non-linear parabolic problem with unknown moving boundary, describing displacement of two weakly compressible viscous fluids in the porous medium. (English summary)

Abramov, Rafail V. (*with* Majda, Andrew J.) Discrete approximations with additional conserved quantities: deterministic and statistical behavior. (English summary) **2005j:62081**

Adams, Nikolaus A. (*with* Hickel, S.; Franz, S.) Implicit subgrid-scale modeling by adaptive deconvolution. (English summary) **2005d:76024**

Afanas'ev, Ya. D. (*with* Korabel, V. N.) Starting vortex dipoles in a viscous fluid: asymptotic theory, numerical simulations, and laboratory experiments. (English summary) **2005e:76037**

Agnon, Yehuda *see* **Bingham, Harry B.**, **2005h:76060**

Aguilar, Juan Carlos (*with* Chen, Yu[5]) A high-order, fast algorithm for scattering calculation in two dimensions. (English summary) **2005a:76144**

Albarreal Núñez, Isidoro I. (*with* Calzada Canalejo, M. Carmen; Cruz Soto, José Luis; Fernández Cara, Enrique; Galo Sánchez, José R.; Marín Beltrán, Mercedes) Time and space parallelization of the Navier-Stokes equations. (English summary) **2005k:65162**

— *see also* **Galo, José R. et al.**

Aldama Rodríguez, Álvaro Alberto *see* **Tzatchkov, V. G. et al.**, (**2005f:65003**)

Algazin, S. D. On the computation of the eigenvalues of the transport equation. (Russian. Russian summary) **2005a:76150**

Amara, Mohamed (*with* Chacón-Vera, Eliseo; Trujillo, David) Vorticity-velocity-pressure formulation for Stokes problem. (English summary) **2005d:65201**

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Antar, Nalan (*with* Moodie, T. B.) Self-similarity and the evaluation of long-time nonhydrostatic effects in compositionally driven gravity flows in deep surroundings. (English summary) **2005j:76024**

Antoine, Xavier (*with* Darbas, Marion) Alternative integral equations for the iterative solution of acoustic scattering problems. (English summary) **2005k:76118**

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Arregui, Iñigo (*with* Cendán, J. Jesús; Vázquez Cendón, C.) A duality method for the compressible Reynolds equation. Application to simulation of read/write processes in magnetic storage devices. (English summary)

Arreguin, F. I. *see* **Tzatchkov, V. G. et al.**, (**2005f:65003**)

Asavanant, J. *see* **Maleewong, M. et al.**, (**2005b:76003**)

Astley, R. J. (*with* Gamallo, Pablo) Special short wave elements for flow acoustics. (English summary)

Avila Murillo, F. *see* **Moreles, Miguel Ángel et al.**, **2005i:76107**

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Bartsch, Peter (*with* Borzì, Alfio) On the modeling and simulation of boundary flow through partially open pipe ends. (English summary) **2005f:76084**

Baudin, Michaël (*with* Coquel, Frédéric; Tran, Quang Huy) A time semi-implicit relaxation scheme for two-phase flows in pipelines. (English summary) **2005k:65164**

— (*with* Berthon, Christophe; Coquel, Frédéric; Masson, Roland; Tran, Quang Huy) A relaxation method for two-phase flow models with hydrodynamic closure law. (English summary) **2005h:76079**

Belyaev, V. V. *see* **Shapeev, V. P. et al.**, **2005d:76011**

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Bingham, Harry B. (*with* Agnon, Yehuda) A Fourier-Boussinesq method for nonlinear water waves. (English summary) **2005h:76060**

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Boussari, A. *see* **Berroukeche, M. et al.**, **2005b:76135**

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Bucchignani, Edoardo (*with* Stella, Fulvio; Paglia, Fabio) A partition method for the solution of a coupled liquid-structure interaction problem. (English summary)

Caboussat, Alexandre (*with* Maronnier, Vincent; Picasso, Marco; Rappaz, Jacques) Numerical simulation of three dimensional free surface flows with bubbles. (English summary) (*see* **2005a:65001**)

Calvo Pinilla, M. (*with* Franco, J. M.; Rández, Luis) A new minimum storage Runge-Kutta scheme for computational acoustics. (English summary)

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Carey, Graham F. (*with* Anderson, Michael Lindsay; Carnes, B.; Kirk, Benjamin S.) Some aspects of adaptive grid technology related to boundary and interior layers. (English summary) **2005a:65146**

Carnes, B. *see* **Carey, Graham F. et al., 2005a:65146**
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— *see also* **Sopta, Luka et al., 2005k:86002**
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Diallo, Ouaténi Modélisation mathématique et simulation numérique d'un problème de remplissage de moule par une résine fluide. (English and French summaries) [Mathematical modeling and numerical simulation of a resin transfer molding problem] **2005g:76116**
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Dutta, Srabasti (*with* Glimm, James; Grove, John W.; Sharp, David H.; Zhang, Yin[1]) A fast algorithm for moving interface problems. (English summary) (*see* **2005g:65009**)
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Fanion, Thierry (*with* Fernández, Miguel-Ángel; le Tallec, Patrick) Deriving adequate formulations for fluid-structure interaction problems: from ALE to transpiration. 2005c:74022
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Gremaud, Pierre A. (*with* Matthews, John V.) On the computation of steady hopper flows. (English summary)
— (*with* Matthews, John V.; O'Malley, Meghan) On the computation of steady hopper flows. II. Von Mises materials in various geometries. (English summary)
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Hirano, Hiroyuki (*with* Yoshida, Hideto; Ozoe, Hiroyuki; Okamoto, Naotaka) A study on preconditioning iterative methods and relativity of pressure in the numerical calculation of fluid flow. (English summary) **2005k:65064a**
— (*with* Yoshida, Hideto; Ozoe, Hiroyuki; Okamoto, Naotaka) Erratum to: "A study on preconditioning iterative methods and relativity of pressure in the numerical calculation of fluid flow" [Numer. Methods Partial Differential Equations **20** (2004), no. 5, 789–802; MR2076348 (2005k:65064a)]. **2005k:65064b**
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Yakovlev, V. V. *see* **Bondar, V. V.**, **2005k:76013**

Yokoi, Kensuke (*with* Xiao, Feng[1]; Liu, Hao[3]; Fukasaku, Kazuaki) Three-dimensional numerical simulation of flows with complex geometries in a regular Cartesian grid and its application to blood flow in cerebral artery with multiple aneurysms. (English summary)

Yoshida, Hideto *see* **Hirano, Hiroyuki et al.**, **2005k:65064a** *and* **2005k:65064b**

Yuan, Li[2] Numerical study of multiple periodic flow states in spherical Couette flow. (English summary)

Zhang, De Sheng *see* **Zhang, Yao Feng et al.**

Zhang, Yao Feng (*with* Zhang, De Sheng; Wu, Xin Qian) Numerical simulation for 1-D water flow in unsaturated soil. (Chinese. English and Chinese summaries)

Zhang, Yin[1] *see* **Dutta, Srabasti et al.**, (**2005g:65009**)

Zhao, Chunshan *see* **He, Yinnian et al.**, **2005g:65144**

Zheng, Chunxiong *see* **Jin, Shi et al.**, **2005e:65155**

Zhou, Xiao Lin[1] Wavelets-Galerkin scheme for a Stokes problem. (English summary) **2005d:65213**

Zhuravleva, Svetlana *see* **Denisikhin, Sergey et al.**, (**2005c:00015**)

Zlatev, Z. *see* **Dimov, Ivan T. et al.**, **2005f:86003**

Zohdi, T. I. Charge-induced clustering in multifield particulate flows. (English summary) **2005h:76081**

Zunino, Paolo Iterative substructuring methods for advection-diffusion problems in heterogeneous media. (English summary) **2005f:65133**

Items listed otherwise than by author

Meshfree & particle based approaches in computational mechanics ★ Meshfree & particle based approaches in computational mechanics. **2005f:74002**

Moscow ★ Parallel computational fluid dynamics. **2005b:76005**

Parallel computational fluid dynamics ★ Parallel computational fluid dynamics. **2005b:76005**

76M27 Visualization algorithms

Items with secondary classifications in 76M27

Ishii, Hiroyuki *see* **Takahashi, Naoya[2] et al.**, **2005k:76036**

Kilian, Susanne (*with* Turek, Stefan) ★ The virtual album of fluid motion. **2005a:76001**

Miyazaki, Takeshi *see* **Takahashi, Naoya[2] et al.**, **2005k:76036**

Takahashi, Naoya[2] (*with* Ishii, Hiroyuki; Miyazaki, Takeshi) The influence of turbulence on a columnar vortex. (English summary) **2005k:76036**

Turek, Stefan *see* **Kilian, Susanne**, **2005a:76001**

76M28 Particle methods and lattice-gas methods

Adams, Nikolaus A. *see* **Czerwinska, Justyna**, (**2005d:65007**)

Argentini, R. (*with* Bakker, A. F.; Lowe, C. P.) A reduced-storage implementation of the lattice Boltzmann equation. (English summary) (*see* **2005c:00014**)

Artoli, Abdel Monim M. (*with* Kandhai, D.; Hoefsloot, H. C. J.; Hoekstra, Alfons G.; Sloot, Peter M. A.) Lattice Boltzmann, a robust and accurate solver for interactive computational hemodynamics. (English summary) (*see* **2005c:00014**)

— *see also* **Hoekstra, Alfons G. et al.**, (**2005c:00014**)

Asikainen, Joonas *see* **Werder, Thomas et al.**, (**2005d:65007**)

Ata, Riadh (*with* Soulaïmani, Azzeddine) A stabilized SPH method for inviscid shallow water flows. (English summary) **2005g:76093**

Bakker, A. F. *see* **Argentini, R. et al.**, (**2005c:00014**)

Banda, Mapundi Kondwani Variants of relaxation schemes and the lattice Boltzmann model relaxation systems. (English summary) (*see* **2005j:65003**)

Bao, Yuan Lin *see* **Cheng, Bing[1] et al.** *and* **Chen, Xiu Rong et al.**

Basa, Mihai *see* **Lastiwka, Martin et al.**

Baxter, J. *see* **Heyes, D. M. et al.**, **2005b:76104**

Bella, G. *see* **Ubertini, S. et al.**, **2005b:76106**

Bennett, A. F. (*with* Taylor, J. R.; Chua, B. S.) Lattice Boltzmann open boundaries for hydrodynamic models. (English summary)

Boghosian, Bruce M. (*with* Love, Peter J.; Yepez, Jeffrey) Entropic lattice Boltzmann model for Burgers's equation. (English summary) **2005d:76030**

— *see also* **Love, Peter J. et al.**, **2005c:76073**

Bogomolov, Sergeĭ Vladimirovich On the justification of the nonsmoothing particle method. (Russian. English and Russian summaries) **2005i:76083**

Bonet, Javier *see* **Rodriguez-Paz, Miguel**, **2005k:76106**

Brackbill, J. U. Particle methods. (English summary) **2005j:76070**

Care, C. M. *see* **Dupin, M. M. et al.**, **2005b:76102**

Casteleiro, Manuel *see* **Cueto-Felgueroso, Luis et al.**, **2005b:76101**

Chen, Xiu Rong (*with* Cheng, Bing[1]; Bao, Yuan Lin; Zhou, Xiao Yang) A normal-form KFVS method. (Chinese. English and Chinese summaries)

— *see also* **Cheng, Bing[1] et al.**

Cheng, Bing[1] (*with* Zhou, Xiao Yang; Chen, Xiu Rong; Bao, Yuan Lin) Lattice Boltzmann simulation of one-dimensional shallow water equations. (Chinese. English and Chinese summaries)

— *see also* **Chen, Xiu Rong et al.**

Chopard, Bastien *see* **Nguyen, Hung P. et al.**, (**2005c:00014**)

Chua, B. S. *see* **Bennett, A. F. et al.**

Cleary, Paul W. (*with* Prakash, Mahesh) Discrete-element modelling and smoothed particle hydrodynamics: potential in the environmental sciences. (English summary) **2005b:76100**

Colominas, Ignasi *see* **Cueto-Felgueroso, Luis et al.**, **2005b:76101**

Coveney, Peter V. *see* **Harting, Jens et al.**, **2005b:76103**

Crouseilles, Nicolas (*with* Degond, Pierre; Lemou, Mohammed) A hybrid kinetic/fluid model for solving the gas dynamics Boltzmann-BGK equation. (English summary) **2005i:76084**

Cueto-Felgueroso, Luis (*with* Colominas, Ignasi; Mosqueira, Gonzalo; Navarrina, Fermín; Casteleiro, Manuel) On the Galerkin formulation of the smoothed particle hydrodynamics method. (English summary) **2005b:76101**

— (*with* Colominas, Ignasi; Mosqueira, Gonzalo; Navarrina, Fermín; Casteleiro, Manuel) A Galerkin meshless numerical approach based on the SPH method. (Spanish. English and Spanish summaries)

Czerwinska, Justyna (*with* Adams, Nikolaus A.) Dissipative particle dynamics for modeling complex fluidics. (English summary) (*see* **2005d:65007**)

Degond, Pierre *see* **Crouseilles, Nicolas et al.**, **2005i:76084**

Del Pin, Facundo *see* **Idelsohn, S. R. et al.**, **2005g:76094**

Dupin, M. M. (*with* Halliday, Ian; Care, C. M.) A lattice Boltzmann model of flow blunting. (English summary) **2005b:76102**

Ecer, A. *see* **Hsu, A. T. et al.**, (**2005b:76005**)

Enright, Douglas (*with* Losasso, Frank; Fedkiw, Ronald) A fast and accurate semi-Lagrangian particle level set method. (English summary) **2005k:76104**

Facin, Paulo Cesar (*with* Philippi, Paulo Cesar; dos Santos, Luís Orlando Emerich) A three-parameter non-linear lattice-Boltzmann model for ideal miscible fluids. (English summary) (*see* **2005c:00014**)

Fedkiw, Ronald *see* **Enright, Douglas et al.**, **2005k:76104**

Fu, Song *see* **Li, Qibing et al.**, **2005m:76142**

Ginzburg, Irina (*with* d'Humières, Dominique) Multireflection boundary conditions for lattice Boltzmann models. (English summary) **2005a:76126**

Greenspan, Donald A particle model of fluid sloshing. (English summary) **2005m:76141**

Halliday, Ian *see* **Dupin, M. M. et al.**, **2005b:76102**

Harting, Jens (*with* Venturoli, Maddalena; Coveney, Peter V.) Large-scale grid-enabled lattice Boltzmann simulations of complex fluid flow in porous media and under shear. (English summary) **2005b:76103**

Heald, John (*with* McEwan, Ian; Tait, Simon) Sediment transport over a flat bed in a unidirectional flow: simulations and validation. (English summary)

Heyes, D. M. (*with* Baxter, J.; Tüzün, U.; Qin, R. S.) Discrete-element method simulations: from micro to macro scales. (English summary) **2005b:76104**

Hoefsloot, H. C. J. *see* **Artoli, Abdel Monim M. et al.**, (**2005c:00014**)

Hoekstra, Alfons G. (*with* van 't Hoff, Jos; Artoli, Abdel Monim M.; Sloot, Peter M. A.) Lattice BGK simulations of unsteady flow in a 2D elastic tube. (English summary) (*see* **2005c:00014**)

— *see also* **Artoli, Abdel Monim M. et al.**, (**2005c:00014**)

van 't Hoff, Jos *see* **Hoekstra, Alfons G. et al.**, (**2005c:00014**)

Hsu, A. T. (*with* Yang, Tao; Lopez, Isaac; Ecer, A.) A review of lattice Boltzmann models for compressible flows. (*see* **2005b:76005**)

d'Humières, Dominique *see* **Ginzburg, Irina**, **2005a:76126**

Idelsohn, S. R. (*with* Oñate, Eugenio; Del Pin, Facundo) The particle finite element method: a powerful tool to solve incompressible flows with free-surfaces and breaking waves. (English summary) **2005g:76094**

Inamuro, Takaji (*with* Ogata, Takeshi; Ogino, Fumimaru) Lattice Boltzmann simulation of bubble flows. (English summary) (*see* **2005c:00014**)

Jiang, Song (*with* Ni, Guo Xi[2]) A γ-model BGK scheme for compressible multifluids. (English summary) **2005b:76105**

Kandhai, D. *see* **Artoli, Abdel Monim M. et al.**, (**2005c:00014**)

Karni, Smadar *see* **Keen, Benjamin**, **2005k:76105**

Karniadakis, George Em *see* **Pivkin, Igor V.**, **2005m:76143**

Kataoka, Takeshi[2] (*with* Tsutahara, Michihisa) Lattice Boltzmann method for the compressible Euler equations. (English summary) **2005e:76066**
Keen, Benjamin (*with* Karni, Smadar) A second order kinetic scheme for gas dynamics on arbitrary grids. (English summary) **2005k:76105**
Kostrikin, S. V. Modified pseudoparticle method. (English summary) (*see* **2005i:65006**)
Koumoutsakos, Petros Multiscale flow simulations using particles. (English summary) **2005i:76085**
— *see also* **Werder, Thomas et al.**, (**2005d:65007**)
Kunik, Matthias (*with* Qamar, Shamsul; Warnecke, Gerald G.) Kinetic schemes for the relativistic gas dynamics. (English summary) **2005c:76072**
Lastiwka, Martin (*with* Quinlan, Nathan; Basa, Mihai) Adaptive particle distribution for smoothed particle hydrodynamics. (English summary)
Lee, Taehun (*with* Lin, Ching-Long) A stable discretization of the lattice Boltzmann equation for simulation of incompressible two-phase flows at high density ratio. (English summary)
Lemou, Mohammed *see* **Crouseilles, Nicolas et al., 2005i:76084**
Li, Qibing (*with* Fu, Song; Xu, Kun) A compressible Navier-Stokes flow solver with scalar transport. (English summary) **2005m:76142**
Lin, Ching-Long *see* **Lee, Taehun**
Lopez, Isaac *see* **Hsu, A. T. et al., (2005b:76005)**
Losasso, Frank *see* **Enright, Douglas et al., 2005k:76104**
Love, Peter J. (*with* Boghosian, Bruce M.; Meyer, David A.) Lattice gas simulations of dynamical geometry in one dimension. (English summary) **2005c:76073**
— *see also* **Boghosian, Bruce M. et al., 2005d:76030**
Lowe, C. P. *see* **Argentini, R. et al., (2005c:00014)**
Mao, Meiliang *see* **Xu, Kun et al., 2005i:76087**
Matsuda, Yoshi *see* **Yoshino, Masato et al.**
McEwan, Ian *see* **Heald, John et al.**
Meyer, David A. *see* **Love, Peter J. et al., 2005c:76073**
Mosqueira, Gonzalo *see* **Cueto-Felgueroso, Luis et al., 2005b:76101**
Navarrina, Fermín *see* **Cueto-Felgueroso, Luis et al., 2005b:76101**
Nguyen, Hung P. (*with* Chopard, Bastien; Stoll, Serge) Lattice Boltzmann method to study hydrodynamic properties of 2D fractal aggregates. (English summary) (*see* **2005c:00014**)
Ni, Guo Xi[2] *see* **Jiang, Song, 2005b:76105**
Ogata, Takeshi *see* **Inamuro, Takaji et al., (2005c:00014)**
Ogino, Fumimaru *see* **Inamuro, Takaji et al., (2005c:00014)**
Oñate, Eugenio *see* **Idelsohn, S. R. et al., 2005g:76094**
Philippi, Paulo Cesar *see* **Facin, Paulo Cesar et al., (2005c:00014)**
Pivkin, Igor V. (*with* Karniadakis, George Em) A new method to impose no-slip boundary conditions in dissipative particle dynamics. (English summary) **2005m:76143**
Prakash, Mahesh *see* **Cleary, Paul W., 2005b:76100**
Qamar, Shamsul *see* **Kunik, Matthias et al., 2005c:76072**
Qin, R. S. *see* **Heyes, D. M. et al., 2005b:76104**
Quinlan, Nathan *see* **Lastiwka, Martin et al.**
Rodriguez-Paz, Miguel (*with* Bonet, Javier) A corrected smooth particle hydrodynamics formulation of the shallow-water equations. (English summary) **2005k:76106**
Rossi, Louis F. Achieving high-order convergence rates with deforming basis functions. (English summary) **2005i:76086**
dos Santos, Luís Orlando Emerich *see* **Facin, Paulo Cesar et al., (2005c:00014)**
Shao, Changcheng *see* **Yoshino, Masato et al.**
Sloot, Peter M. A. *see* **Hoekstra, Alfons G. et al., (2005c:00014)** *and* **Artoli, Abdel Monim M. et al., (2005c:00014)**
van der Sman, R. G. M. Lattice Boltzmann scheme for diffusion on triangular grids. (English summary) (*see* **2005c:00014**)
Soulaïmani, Azzeddine *see* **Ata, Riadh, 2005g:76093**
Stoll, Serge *see* **Nguyen, Hung P. et al., (2005c:00014)**
Succi, Sauro *see* **Ubertini, S. et al., 2005b:76106**
Tait, Simon *see* **Heald, John et al.**
Tang, Hua-zhong (*with* Tang, Tao; Xu, Kun) A gas-kinetic scheme for shallow-water equations with source terms. (English summary) **2005a:76127**
Tang, Lei *see* **Xu, Kun et al., 2005i:76087**
Tang, Tao *see* **Tang, Hua-zhong et al., 2005a:76127**
Taylor, J. R. *see* **Bennett, A. F. et al.**
Tsutahara, Michihisa *see* **Kataoka, Takeshi**[2], **2005e:76066**
Tüzün, U. *see* **Heyes, D. M. et al., 2005b:76104**
Ubertini, S. (*with* Succi, Sauro; Bella, G.) Lattice Boltzmann schemes without coordinates. (English summary) **2005b:76106**
Venturoli, Maddalena *see* **Harting, Jens et al., 2005b:76103**
Walther, Jens H. *see* **Werder, Thomas et al., (2005d:65007)**
Warnecke, Gerald G. *see* **Kunik, Matthias et al., 2005c:76072**
Werder, Thomas (*with* Walther, Jens H.; Asikainen, Joonas; Koumoutsakos, Petros) Continuum-particle hybrid methods for dense fluids. (English summary) (*see* **2005d:65007**)
Xu, Kun (*with* Mao, Meiliang; Tang, Lei) A multidimensional gas-kinetic BGK scheme for hypersonic viscous flow. (English summary) **2005i:76087**
— *see also* **Tang, Hua-zhong et al., 2005a:76127** *and* **Li, Qibing et al., 2005m:76142**
Yang, Tao *see* **Hsu, A. T. et al., (2005b:76005)**
Yepez, Jeffrey *see* **Boghosian, Bruce M. et al., 2005d:76030**
Yoshino, Masato (*with* Matsuda, Yoshi; Shao, Changcheng) Comparison of accuracy and efficiency between the lattice Boltzmann method and the finite difference method in viscous/thermal fluid flows. (English summary)
Zhou, Xiao Yang *see* **Cheng, Bing**[1] **et al.** *and* **Chen, Xiu Rong et al.**

Items with secondary classifications in 76M28

Bao, Yuan Lin (*with* Cheng, Bing[1]; Chen, Xiu Rong; Zhou, Xiao Yang) Application of the KFVS finite volume method in two-dimensional dam breaking. (Chinese. English and Chinese summaries)
Boek, Edo S. *see* **Grosfils, Patrick et al., 2005c:76039**
Boon, Jean Pierre *see* **Grosfils, Patrick et al., 2005c:76039**
(Breitkopf, Piotr) *see* **Meshfree & particle based approaches in computational mechanics, 2005f:74002**
Camassa, Roberto (*with* Huang, Jingfang; Lee, Long) On a completely integrable numerical scheme for a nonlinear shallow-water wave equation. (English summary) **2005h:37152**
Care, C. M. *see* **Dupin, M. M. et al., 2005b:76114**
Casteleiro, Manuel *see* **Colominas, Ignasi et al., (2005d:65006)**
Charrier, Pierre (*with* Dubroca, Bruno; Mieussens, Luc; Turpault, Rodolphe) Discrete-velocity models for numerical simulations in transitional regime for rarefied flows and radiative transfer. (English summary) **2005e:82040**
Chen, Tian-Quan ★ A non-equilibrium statistical mechanics. **2005c:82053**
Chen, Xiu Rong *see* **Bao, Yuan Lin et al.**
Cheng, Bing[1] *see* **Bao, Yuan Lin et al.**
Chertock, Alina (*with* Kurganov, Alexander) On a hybrid finite-volume-particle method. (English summary) **2005i:34007**
Chin, Jonathan *see* **Grosfils, Patrick et al., 2005c:76039**
Chopard, Bastien *see* **Hirabayashi, Miki et al., (2005c:00014)**
Colominas, Ignasi (*with* Cueto-Felgueroso, Luis; Mosqueira, Gonzalo; Navarrina, Fermín; Casteleiro, Manuel) A particle numerical approach based on the SPH method for computational fluid mechanics. (English summary) (*see* **2005d:65006**)
Cornille, Henri Planar DVMs mixtures models with the same geometrical structure. (English summary) (*see* **2005c:00016**)
Cotter, Colin John (*with* Reich, Sebastian) Adiabatic invariance and applications: from molecular dynamics to numerical weather prediction. (English summary) **2005g:37119**
Cueto-Felgueroso, Luis *see* **Colominas, Ignasi et al., (2005d:65006)**
Davison, Matt *see* **Doeschl, Andrea et al., 2005h:65278**
Denniston, Colin D. (*with* Marenduzzo, D.; Orlandini, E.; Yeomans, J. M.) Lattice Boltzmann algorithm for three-dimensional liquid-crystal hydrodynamics. (English summary) **2005b:76013**
Dixon, Matthew F. (*with* Reich, Sebastian) Symplectic time-stepping for particle methods. (English summary)
Doeschl, Andrea (*with* Davison, Matt; Rasmussen, Henning; Reid, Gregory John) Assessing cellular automata based models using partial differential equations. (English summary) **2005h:65278**
D'Orazio, Annunziata (*with* Succi, Sauro) Boundary conditions for thermal lattice Boltzmann simulations. (English summary) (*see* **2005c:00014**)
Dubroca, Bruno *see* **Charrier, Pierre et al., 2005e:82040**
Dupin, M. M. (*with* Spencer, T. J.; Halliday, Ian; Care, C. M.) A many-component lattice Boltzmann equation simulation for transport of deformable particles. (English summary) **2005b:76114**
Ghoniem, Ahmed F. *see* **Marzouk, Youssef M., 2005m:65238**
Greenspan, Donald ★ *N*-body problems and models. **2005h:70002**
Grosfils, Patrick (*with* Boon, Jean Pierre; Chin, Jonathan; Boek, Edo S.) Structural and dynamical characterization of Hele-Shaw viscous fingering. (English summary) **2005c:76039**
Halliday, Ian *see* **Dupin, M. M. et al., 2005b:76114**
Haydock, David Lattice Boltzmann simulations of the time-averaged forces on a cylinder in a sound field. (English summary)
Hirabayashi, Miki (*with* Ohta, Makoto; Rüfenacht, Daniel A.; Chopard, Bastien) Lattice Boltzmann analysis of the flow reduction mechanism in stented cerebral aneurysms for the endovascular treatment. (English summary) (*see* **2005c:00014**)
Huang, Jingfang *see* **Camassa, Roberto et al., 2005h:37152**
(Huerta, Antonio) *see* **Meshfree & particle based approaches in computational mechanics, 2005f:74002**
Inamuro, Takaji (*with* Ogata, Takeshi) A lattice kinetic scheme for bubble flows. (English summary) **2005b:76130**
Jourdain, Benjamin (*with* Méléard, Sylvie) Probabilistic interpretation and particle method for vortex equations with Neumann's boundary condition. (English summary) **2005i:76033**
Kaul, Ann M. *see* **Sulsky, Deborah, 2005a:65111**
Kuhnert, Jörg *see* **Tiwari, Sudarshan, 2005f:76077**
Kunik, Matthias (*with* Qamar, Shamsul; Warnecke, Gerald G.) A BGK-type flux-vector splitting scheme for the ultrarelativistic Euler equations. (English summary) **2005k:65213**
Kurganov, Alexander *see* **Chertock, Alina, 2005i:34007**
Lee, Long *see* **Camassa, Roberto et al., 2005h:37152**
Lewandowski, J. L. V. Low-noise collision operators for particle-in-cell simulations (English summary)
Li, Shaofan (*with* Liu, Wing Kam) ★ Meshfree particle methods. **2005i:65001**
Liu, Wing Kam *see* **Li, Shaofan, 2005i:65001**
Marenduzzo, D. *see* **Denniston, Colin D. et al., 2005b:76013**
Margolus, Norman H. Universal cellular automata based on the collisions of soft spheres. **2005m:37030**
Marzouk, Youssef M. (*with* Ghoniem, Ahmed F.) *K*-means clustering for optimal partitioning and dynamic load balancing of parallel hierarchical *N*-body simulations. (English summary) **2005m:65238**
Meinhart, Carl D. *see* **Zhu, Luoding et al.**
Méléard, Sylvie *see* **Jourdain, Benjamin, 2005i:76033**
Mieussens, Luc *see* **Charrier, Pierre et al., 2005e:82040**
Mosqueira, Gonzalo *see* **Colominas, Ignasi et al., (2005d:65006)**
Navarrina, Fermín *see* **Colominas, Ignasi et al., (2005d:65006)**
Ogata, Takeshi *see* **Inamuro, Takaji, 2005b:76130**
Ohta, Makoto *see* **Hirabayashi, Miki et al., (2005c:00014)**
Orlandini, E. *see* **Denniston, Colin D. et al., 2005b:76013**
Perthame, Benoît Kinetic formulations of parabolic and hyperbolic PDEs: from theory to numerics. **2005h:35032**
Petzold, Linda R. *see* **Zhu, Luoding et al.**
Qamar, Shamsul *see* **Kunik, Matthias et al., 2005k:65213**
(Qian, Min) *see* **Chen, Tian-Quan, 2005c:82053**
Rasmussen, Henning *see* **Doeschl, Andrea et al., 2005h:65278**

Rasulova, M. Yu. (*with* Siddiqi, Abul Hasan) Relationship between the solution of BBGKY-hierarchy of kinetic equations and the particle solution of Vlasov equation. (English summary) **2005e:82099**
Reich, Sebastian *see* **Cotter, Colin John, 2005g:37119** *and* **Dixon, Matthew F.**
Reid, Gregory John *see* **Doeschl, Andrea et al., 2005h:65278**
Rüfenacht, Daniel A. *see* **Hirabayashi, Miki et al., (2005c:00014)**
Shi, Wei Ping² *see* **Zu, Ying Qing**
Siddiqi, Abul Hasan *see* **Rasulova, M. Yu., 2005e:82099**
Spencer, T. J. *see* **Dupin, M. M. et al., 2005b:76114**
Succi, Sauro *see* **D'Orazio, Annunziata, (2005c:00014)**
Sulsky, Deborah (*with* Kaul, Ann M.) Implicit dynamics in the material-point method. (English summary) **2005a:65111**
Tang, Hua-zhong (*with* Warnecke, Gerald G.) A Runge-Kutta discontinuous Galerkin method for the Euler equations. (English summary) **2005h:76066**
Tiwari, Sudarshan (*with* Kuhnert, Jörg) A meshfree method for incompressible fluid flows with incorporated surface tension. **2005f:76077**
Tretheway, Derek *see* **Zhu, Luoding et al.**
Turpault, Rodolphe *see* **Charrier, Pierre et al., 2005e:82040**
Warnecke, Gerald G. *see* **Tang, Hua-zhong, 2005h:76066** *and* **Kunik, Matthias et al., 2005k:65213**
Xu, Kun Discontinuous Galerkin BGK method for viscous flow equations: one-dimensional systems. (English summary) **2005i:65148**
Yeomans, J. M. *see* **Denniston, Colin D. et al., 2005b:76013**
Zhou, Xiao Yang *see* **Bao, Yuan Lin et al.**
Zhu, Luoding (*with* Tretheway, Derek; Petzold, Linda R.; Meinhart, Carl D.) Simulation of fluid slip at 3D hydrophobic microchannel walls by the lattice Boltzmann method. (English summary)
Zu, Ying Qing (*with* Shi, Wei Ping²) A discrete-velocity model for dam break waves. (Chinese. English and Chinese summaries)

Items listed otherwise than by author

Meshfree & particle based approaches in computational mechanics ★ Meshfree & particle based approaches in computational mechanics. **2005f:74002**

76M30 Variational methods

He, Ji Huan ★ Liuti lixue guangyi bianfen yuanli. (Chinese. Chinese summary) [Generalized variational principles in fluids] **2005g:76095**
Lukovskiĭ, I. A. (*with* Zolotenko, G. F.; Pil'kevich, A. M.) Comparative analysis of two variational models in the nonlinear theory of relative fluid motion. (Russian. English, Russian and Ukrainian summaries) **2005i:76088**
Pil'kevich, A. M. *see* **Lukovskiĭ, I. A. et al., 2005i:76088**
Zolotenko, G. F. *see* **Lukovskiĭ, I. A. et al., 2005i:76088**

Items with secondary classifications in 76M30

Alberti, Giovanni (*with* DeSimone, Antonio) Wetting of rough surfaces: a homogenization approach. (English summary) **2005m:82043**
Alves, Carlos J. S. (*with* Silvestre, Ana Leonor) On the determination of point-forces on a Stokes system. (English summary) **2005b:35287**
Anderson, Michael Lindsay (*with* Bangerth, Wolfgang; Carey, Graham F.) Analysis of parameter sensitivity and experimental design for a class of nonlinear partial differential equations. (English summary) **2005m:76044**
Bahrami, F. *see* **Emamizadeh, B. et al.**
Baines, Michael *see* **Wakefield, M. A. et al., 2005a:65054**
Bangerth, Wolfgang *see* **Anderson, Michael Lindsay et al., 2005m:76044**
Belloni, Marino (*with* Wagner, Alfred) Newton's problem of minimal resistance in the class of bodies with prescribed volume. (English summary) **2005a:49002**
Bernis, Laurent Solutions stationnaires des équations de Vlasov-Poisson à symétries cylindriques. (English and French summaries) [Cylindrically symmetric stationary solutions of the Vlasov-Poisson equations] **2005m:76194**
Bessi Fourati, R. *see* **Bonnans, Joseph Frédéric et al., 2005c:74020**
Bildhauer, Michael (*with* Fuchs, Martin²) Regularization of convex variational problems with applications to generalized Newtonian fluids. (English summary) **2005m:49057**
Blawzdziewicz, J. (*with* Wajnryb, E.; Given, James A.; Hubbard, J. B.) Sharp scalar and tensor bounds on the hydrodynamic friction and mobility of arbitrarily shaped bodies in Stokes flow. (English summary) **2005k:76030**
Bonnans, Joseph Frédéric (*with* Bessi Fourati, R.; Smaoui, H.) The obstacle problem for water tanks. (English and French summaries) **2005c:74020**
Brinkmann, M. (*with* Kierfeld, Jan; Lipowsky, Reinhard) A general stability criterion for droplets on structured substrates. (English summary) **2005g:76047**
Buffoni, Boris Existence and conditional energetic stability of capillary-gravity solitary water waves by minimisation. (English summary) **2005f:35008**
— Conditional energetic stability of gravity solitary waves in the presence of weak surface tension. (English summary) **2005k:76014**
Burton, Geoffrey R. Isoperimetric properties of Lamb's circular vortex-pair. (English summary) **2005j:76018**
Carey, Graham F. *see* **Anderson, Michael Lindsay et al., 2005m:76044**
Cercignani, Carlo (*with* Lampis, Maria; Lorenzani, Silvia) Variational approach to gas flows in microchannels. (English summary) **2005b:76113**
Chavanis, Pierre-Henri *see* **Leprovost, N. et al., 2005k:76138**
Chefranov, A. S. (*with* Chefranov, S. G.) Extrema of kinetic energy and the rates of its dissipation in the hydromechanics of swirling flows. (Russian) **2005f:76023**
Chefranov, S. G. *see* **Chefranov, A. S., 2005f:76023**
Dervieux, Alain *see* **Vázquez-Cendón, María Elena et al., 2005c:76075**
DeSimone, Antonio *see* **Alberti, Giovanni, 2005m:82043**
Dubrulle, B. *see* **Leprovost, N. et al., 2005k:76138**
Elcrat, Alan R. (*with* Neel, Robert; Siegel, David) Equilibrium configurations for a floating drop. (English summary) **2005j:76017**
Elizarov, A. M. (*with* Fokin, D. A.) Exact solutions of the fundamental variational inverse boundary value problem of aerohydrodynamics. (Russian) **2005k:76069**
Emamizadeh, B. (*with* Mehrabi, M. H.) Asymptotic behavior of the centroids of a family of vortices. (English summary) **2005g:76015**
— (*with* Bahrami, F.; Mehrabi, M. H.) Steiner symmetric vortices attached to seamounts. (English summary)
Fokin, D. A. *see* **Elizarov, A. M., 2005k:76069**
Frigaard, I. A. *see* **Pelipenko, S.**
Fuchs, Martin² *see* **Bildhauer, Michael, 2005m:49057**
Garabedian, P. R. (*with* Meurer, M. E.) Cavitational flow and magnetohydrodynamics. (English summary) **2005a:76012**
Gavrilyuk, Ivan P. (*with* Lukovskiĭ, I. A.; Timokha, A. N.) Two-dimensional variational vibroequilibria and Faraday's drops. (English summary) **2005g:76100**
Given, James A. *see* **Blawzdziewicz, J. et al., 2005k:76030**
Goedbloed, J. P. Variational principles for stationary one- and two-fluid equilibria of axisymmetric laboratory and astrophysical plasmas. (English summary) **2005h:76096**
— Response to "Comment on: 'Variational principles for stationary one- and two-fluid equilibria of axisymmetric laboratory and astrophysical plasmas'" [Phys. Plasmas **12** (2005), no. 6, 064701, 2 pp.; MR2148190] by K. G. McClements and A. Thyagaraja. (English summary)
— *see also* **McClements, K. G.**
Gouin, Henri (*with* Ruggeri, Tommaso) Hamiltonian principle in the binary mixtures of Euler fluids with applications to the second sound phenomena. (English and Italian summaries) **2005b:76016**
He, Ji Huan Variational principle for non-Newtonian lubrication: Rabinowitsch fluid model. (English summary)
He, Yinnian (*with* Li, Kai Tai; Liu, Kam-Moon) Oseen coupling method for the exterior flow. II. Well-posedness analysis. (English summary) **2005g:76025**
Hild, Patrick (*with* Ionescu, Ioan R.; Lachand-Robert, Thomas; Roşca, Ioan) Stress formulation for the blocking property of the inhomogeneous Bingham fluid. (French summary)
Holm, Darryl D. Variational principles, geometry and topology of Lagrangian-averaged fluid dynamics. (English summary) **2005d:76009**
— (*with* Marsden, Jerrold E.; Ratiu, Tudor S.) The Euler-Poincaré equations in geophysical fluid dynamics. **2005c:37167**
Hong, Min-Chun Partial regularity of weak solutions of the liquid crystal equilibrium system. (English summary) **2005k:35127**
Hubbard, J. B. *see* **Blawzdziewicz, J. et al., 2005k:76030**
Ionescu, Ioan R. *see* **Hild, Patrick et al.**
Kats, A. V. Canonical description of ideal magnetohydrodynamic flows and integrals of motion. (English summary) **2005f:76113**
Kierfeld, Jan *see* **Brinkmann, M. et al., 2005g:76047**
Klouček, Petr (*with* Romerio, Michel V.; Wightman, Jennifer L.) A dynamical system describing evolution of the implicit surfaces in incompressible viscous liquids. (English summary) **2005k:76025**
Knowles, Ian W. (*with* Yan, Aimin) On the recovery of transport parameters in groundwater modelling. (English summary) **2005b:35296**
Koobus, B. *see* **Vázquez-Cendón, María Elena et al., 2005c:76075**
Kračmar, Stanislav (*with* Penel, Patrick) Variational properties of a generic model equation in exterior 3D domains. (English summary) **2005k:35081**
Lachand-Robert, Thomas *see* **Hild, Patrick et al.**
Lampis, Maria *see* **Cercignani, Carlo et al., 2005b:76113**
Lee, Chack Fan *see* **Zheng, Hong et al., 2005m:76177**
Leprovost, N. (*with* Dubrulle, B.; Chavanis, Pierre-Henri) Thermodynamics of magnetohydrodynamic flows with axial symmetry. (English summary) **2005k:76138**
Li, Kai Tai *see* **He, Yinnian et al., 2005g:76025**
Lipowsky, Reinhard *see* **Brinkmann, M. et al., 2005g:76047**
Liu, De Fu *see* **Zheng, Hong et al., 2005m:76177**
Liu, Gao-Lian Dual variational principles for the free-boundary problem of cavitated bearing lubrication. (English summary) **2005h:76025**
Liu, Kam-Moon *see* **He, Yinnian et al., 2005g:76025**
Lorenzani, Silvia *see* **Cercignani, Carlo et al., 2005b:76113**
Lukovskiĭ, I. A. *see* **Gavrilyuk, Ivan P. et al., 2005g:76100**
Marsden, Jerrold E. *see* **Holm, Darryl D. et al., 2005c:37167**
McClements, K. G. (*with* Thyagaraja, A.) Comment on "Variational principles for stationary one- and two-fluid equilibria of axisymmetric laboratory and astrophysical plasmas" [Phys. Plasmas **11** (2004), no. 12, L81–L84; MR2115219 (2005h:76096)] by J. P. Goedbloed. (English summary)
— *see also* **Goedbloed, J. P.**
Mehrabi, M. H. *see* **Emamizadeh, B. et al., 2005g:76015**
Meurer, M. E. *see* **Garabedian, P. R., 2005a:76012**
Migórski, Stanisław (*with* Ochal, Anna) Hemivariational inequalities for stationary Navier-Stokes equations. (English summary) **2005m:35226**
Mohammadi, Bijan Sensitivity analysis and control in an elastic CAD-free framework for multi-model configurations. **2005d:74012**
Munnier, Alexandre Stability and linear oscillations of liquid bridges with varied boundary conditions under zero gravity. (English summary) **2005a:76023**
Neel, Robert *see* **Elcrat, Alan R. et al., 2005j:76017**
Ochal, Anna *see* **Migórski, Stanisław, 2005m:35226**
Ohsaki, Shuichi (*with* Yoshida, Zensho) Variational principle with singular perturbation of Hall magnetohydrodynamics. (English summary) **2005m:76190**
Oparina, E. I. (*with* Troshkin, O. V.) Stability of a Kolmogorov flow in a channel with rigid walls. (Russian) **2005m:76081**
Otway, Thomas H. Geometric analysis near and across a sonic curve. (English summary) **2005e:58034**
Patera, Anthony T. *see* **Veroy, K., 2005j:76029**
Pelipenko, S. (*with* Frigaard, I. A.) Two-dimensional computational simulation of eccentric annular cementing displacements. (English summary)
Penel, Patrick *see* **Kračmar, Stanislav, 2005k:35081**
Plakhov, Alexander Newton's problem of the body of minimal mean resistance. (Russian. Russian summary) **2005g:49073**
Porter, David¹ *see* **Wakefield, M. A. et al., 2005a:65054**

Ratiu, Tudor S. *see* **Holm, Darryl D. et al., 2005c:37167**
Rein, Gerhard Non-linear stability of gaseous stars. (English summary) **2005d:35214**
Romerio, Michel V. *see* **Klouček, Petr et al., 2005k:76025**
Roşca, Ioan *see* **Hild, Patrick et al.**
Rosso, Riccardo (*with* Virga, Epifanio G.) Local stability for a general wetting functional. (English summary) **2005f:76042**
Ruggeri, Tommaso *see* **Gouin, Henri, 2005b:76016**
Rylov, Yu. A. Hydrodynamic equations for incompressible inviscid fluid in terms of generalized stream function. (English summary) **2005g:76023**
Scholz, Markus Generalized solutions of the capillary problem. (English summary) **2005e:49025**
Siegel, David *see* **Elcrat, Alan R. et al., 2005j:76017**
Silvestre, Ana Leonor *see* **Alves, Carlos J. S., 2005b:35287**
Smaoui, H. *see* **Bonnans, Joseph Frédéric et al., 2005c:74020**
Solonnikov, Vsevolod Alekseevich On the stability of axisymmetric equilibrium figures of a rotating viscous incompressible fluid. (Russian. Russian summary) **2005d:76016**
— On the stability of nonsymmetric equilibrium figures of a rotating viscous incompressible liquid. (English summary) **2005h:76032**
Tham, L. G. *see* **Zheng, Hong et al., 2005m:76177**
Thyagaraja, A. *see* **McClements, K. G.** *and* **Goedbloed, J. P.**
Timokha, A. N. *see* **Gavrilyuk, Ivan P. et al., 2005g:76100**
Troshkin, O. V. *see* **Oparina, E. I., 2005m:76081**
Valdinoci, Enrico Plane-like minimizers in periodic media: jet flows and Ginzburg-Landau-type functionals. (English summary) **2005m:58037**
Vázquez-Cendón, María Elena (*with* Dervieux, Alain; Koobus, B.) Multilevel optimization of a supersonic aircraft. (English summary) **2005c:76075**
Veroy, K. (*with* Patera, Anthony T.) Certified real-time solution of the parametrized steady incompressible Navier-Stokes equations: rigorous reduced-basis a posteriori error bounds. (English summary) **2005j:76029**
Virga, Epifanio G. *see* **Rosso, Riccardo, 2005f:76042**
Vol'nitskaya, E. P. Variational principles of time-dependent fluid flows through porous media with discontinuous reservoir properties. (English summary) **2005j:76088**
Wagner, Alfred *see* **Belloni, Marino, 2005a:49002**
Wajnryb, E. *see* **Blawzdziewicz, J. et al., 2005k:76030**
Wakefield, M. A. (*with* Baines, Michael; Porter, David[1]) Bounds on physical quantities. (English summary) **2005a:65054**
Wightman, Jennifer L. *see* **Klouček, Petr et al., 2005k:76025**
Yan, Aimin *see* **Knowles, Ian W., 2005b:35296**
Yoshida, Zensho *see* **Ohsaki, Shuichi, 2005m:76190**
Zheng, Hong (*with* Liu, De Fu; Lee, Chack Fan; Tham, L. G.) A new variational inequality formulation for seepage problems with free surfaces. (Chinese. English and Chinese summaries) **2005m:76177**
Zolotenko, G. F. Computer simulation of nonlinear sloshing of a liquid in a tank on the basis of Hamilton-type equations. (Russian. English, Russian and Ukrainian summaries) **2005f:76021**

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Al'beverio, S. (*with* Belopol'skaya, Ya. I.) Probabilistic approach to hydrodynamic equations. (English summary) **2005g:76096**
— (*with* Ferrario, B.) Invariant measures of Lévy-Khinchine type for 2D fluids. (English summary) **2005e:76067**
Belopol'skaya, Ya. I. *see* **Al'beverio, S., 2005g:76096**
Celani, Antonio (*with* Cencini, Massimo; Noullez, Alain) Going forth and back in time: a fast and parsimonious algorithm for mixed initial/final-value problems. (English summary) **2005d:76031**
Cencini, Massimo *see* **Celani, Antonio et al., 2005d:76031**
Chaves, Marta (*with* Gawędzki, Krzysztof; Horvai, Péter; Kupiainen, Antti; Vergassola, Massimo) Lagrangian dispersion in Gaussian self-similar velocity ensembles. (English summary) **2005d:76032**
Chiragwandi, Z. *see* **Willander, M. et al., 2005h:76069**
Dranikov, I. L. (*with* Kondratenko, P. S.; Matveev, L. V.) Anomalous transport of pollutants in a model of stochastic advection. (Russian)
Ferrario, B. *see* **Al'beverio, S., 2005e:76067**
Gawędzki, Krzysztof *see* **Chaves, Marta et al., 2005d:76032**
Ghanem, Roger G. *see* **Zou, Yu[1], 2005i:76090**
Greenspan, Donald The extraction of laminar flow from certain Brownian motions. (English summary) **2005h:76068**
Horvai, Péter *see* **Chaves, Marta et al., 2005d:76032**
Karniadakis, George Em *see* **Lin, Guan et al., 2005f:76080** *and* **Wan, Xiaoliang et al., 2005i:76089**
Katsoulakis, M. A. (*with* Majda, Andrew J.; Sopasakis, A.) Multiscale couplings in prototype hybrid deterministic/stochastic systems. I. Deterministic closures. (English summary) **2005m:76144**
Kondratenko, P. S. *see* **Dranikov, I. L. et al.**
Kuksin, Sergei B. (*with* Penrose, Oliver) A family of balance relations for the two-dimensional Navier-Stokes equations with random forcing. (English summary) **2005k:76107**
Kupiainen, Antti *see* **Chaves, Marta et al., 2005d:76032**
Lim, Chjan C. (*with* Nebus, Joseph) The spherical model of logarithmic potentials as examined by Monte Carlo methods. (English summary) **2005f:76079**
Lin, Guan (*with* Su, Chau Hsing; Karniadakis, George Em) The stochastic piston problem. (English summary) **2005f:76080**
Majda, Andrew J. *see* **Katsoulakis, M. A. et al., 2005m:76144**
Mamontov, Yevgeny V. *see* **Willander, M. et al., 2005h:76069**
Mattingly, Jonathan C. (*with* Suidan, Toufic M.) The small scales of the stochastic Navier-Stokes equations under rough forcing. (English summary) **2005m:76145**
Matveev, L. V. *see* **Dranikov, I. L. et al.**
Nebus, Joseph *see* **Lim, Chjan C., 2005f:76079**
Noullez, Alain *see* **Celani, Antonio et al., 2005d:76031**
Nualart, David (*with* Rovira, Carles; Tindel, Samy) Probabilistic models for vortex filaments based on fractional Brownian motion. (English summary) **2005e:76068**
Penrose, Oliver *see* **Kuksin, Sergei B., 2005k:76107**
Romito, Marco Ergodicity of the finite dimensional approximation of the 3D Navier-Stokes equations forced by a degenerate noise. (English summary) **2005a:76128**
Rovira, Carles *see* **Nualart, David et al., 2005e:76068**
Sopasakis, A. *see* **Katsoulakis, M. A. et al., 2005m:76144**
Su, Chau Hsing *see* **Lin, Guan et al., 2005f:76080**
Suidan, Toufic M. *see* **Mattingly, Jonathan C., 2005m:76145**
Tindel, Samy *see* **Nualart, David et al., 2005e:76068**
Vergassola, Massimo *see* **Chaves, Marta et al., 2005d:76032**
Wan, Xiaoliang (*with* Xiu, Dongbin; Karniadakis, George Em) Stochastic solutions for the two-dimensional advection-diffusion equation. (English summary) **2005i:76089**
Waymire, Edward C. Probability & incompressible Navier-Stokes equations: an overview of some recent developments. (English summary) **2005j:76071**
Willander, M. (*with* Mamontov, Yevgeny V.; Chiragwandi, Z.) Modelling living fluids with the subdivision into the components in terms of probability distributions. (English summary) **2005h:76069**
Xiu, Dongbin *see* **Wan, Xiaoliang et al., 2005i:76089**
Zou, Yu[1] (*with* Ghanem, Roger G.) A multiscale data assimilation with the ensemble Kalman filter. (English summary) **2005i:76090**

Items with secondary classifications in 76M35

Abramov, Rafail V. (*with* Majda, Andrew J.) Discrete approximations with additional conserved quantities: deterministic and statistical behavior. (English summary) **2005j:62081**
Agullo, Olivier (*with* Verga, Alberto) Relaxation towards localized vorticity states in drift plasma and geostrophic flows. (English summary) **2005g:76073**
Al'beverio, S. (*with* Ferrario, B.) Uniqueness of solutions of the stochastic Navier-Stokes equation with invariant measure given by the enstrophy. (English summary) **2005b:60151**
Alexander, Francis J. *see* **Eyink, Gregory L. et al., 2005f:82125**
Alikakos, Nicholas D. (*with* Fusco, Giorgio; Karali, Georgia) Continuum limits of particles interacting via diffusion. (English summary) **2005d:82092**
Alvarado, Vladimir Hydrodynamic dispersion in a hierarchical network with a power-law distribution of conductances. (English summary) **2005k:76127**
Arnold, Ludwig (*with* Chueshov, Igor D.; Ochs, Gunter) Stability and capsizing of ships in random sea—a survey. (English summary) **2005g:76022**
Artus, Vincent (*with* Furtado, Frederico; Nœtinger, Benoît; Pereira, Felipe) Stochastic analysis of two-phase immiscible flow in stratified porous media. (English summary)
Barbu, Viorel (*with* Da Prato, Giuseppe; Debussche, Arnaud) Essential m-dissipativity of Kolmogorov operators corresponding to periodic 2D-Navier Stokes equations. (English and Italian summaries) **2005h:35379**
— (*with* Da Prato, Giuseppe; Debussche, Arnaud) The Kolmogorov equation associated to the stochastic Navier-Stokes equations in 2D. (English summary) **2005k:60190**
Baxevani, Anastassia ★ Modelling sea surface dynamics using crossing distributions. **2005b:86004**
Bec, Jérémie (*with* Khanin, Konstantin) Forced Burgers equation in an unbounded domain. (English summary) **2005c:76056**
Bedrikovetskiĭ, P. G. *see* **Santos, A., 2005m:76174**
Benedetto, Dario (*with* Caglioti, Emanuele; Golse, François; Pulvirenti, Mario) Hydrodynamic limits of a Vlasov-Fokker-Planck equation for granular media. (English summary) **2005g:82109**
Benzi, Roberto (*with* Biferale, Luca; Sbragaglia, Mauro) A Gibbs-like measure for single-time, multi-scale energy transfer in stochastic signals and shell model of turbulence. (English summary) **2005g:76060**
Bessaih, H. (*with* Flandoli, Franco) A mean field result for 3D vortex filaments. (English summary) **2005f:76047**
— (*with* Flandoli, Franco) Limit behaviour of a dense collection of vortex filaments. (English summary) **2005m:76104**
Bhave, Amit (*with* Kraft, Markus) Partially stirred reactor model: analytical solutions and numerical convergence study of a PDF/Monte Carlo method. (English summary) **2005c:80009**
Biferale, Luca *see* **Benzi, Roberto et al., 2005g:76060**
Bobylev, A. V. (*with* Martínez-Gamba, Irene; Panferov, Vladislav A.) Moment inequalities and high-energy tails for Boltzmann equations with inelastic interactions. (English summary) **2005g:82111**
Boghosian, Bruce M. (*with* Love, Peter J.; Yepez, Jeffrey) Entropic lattice Boltzmann model for Burgers's equation. (English summary) **2005d:76030**
— *see also* **Love, Peter J. et al., 2005c:76073** *and* **2005g:76028**
Bouchut, François (*with* Golse, François; Pulvirenti, Mario) ★ Kinetic equations and asymptotic theory. **2005d:82102**
Brilliantov, Nikolai V. *see* **Pöschel, Thorsten et al., 2005d:82124**
Caflisch, Russel E. (*with* Pareschi, Lorenzo) Towards a hybrid Monte Carlo method for rarefied gas dynamics. (English summary) **2005b:82082**
Caglioti, Emanuele *see* **Benedetto, Dario et al., 2005g:82109**
Caraballo Garrido, Tomás The long-time behaviour of stochastic 2D-Navier-Stokes equations. (English summary) **2005e:35181**
Celani, Antonio (*with* Mazzino, Andrea; Pumir, Alain) Turbulence and stochastic processes. (English summary) **2005b:76073**
— (*with* Musacchio, S.; Vincenzi, D.) Polymer transport in random flow. (English summary) **2005i:76061**
Chavanis, Pierre-Henri Statistical mechanics of geophysical turbulence: application to Jovian flows and Jupiter's great red spot. (English summary) **2005h:76049**
— *see also* **Leprovost, N. et al., 2005k:76138**
Chen, Qian-Yong (*with* Gottlieb, David; Hesthaven, Jan S.) Uncertainty analysis for the steady-state flows in a dual throat nozzle. (English summary) **2005j:76075**
Cherkaoui Malki, Mohammed Ouçamah (*with* Omari Alaoui, Elkebir) Green's functions and closing in pressure in partially nonhomogeneous turbulence. (English summary) **2005i:76066**
— (*with* Sayouri, Salaheddine) Quasi spectral data construction in two points in partially

nonhomogeneous turbulence. (English summary) **2005i:76065**

Chernukha, O. Yu. Diffusion of an admixture in a randomly nonhomogeneous fibroid layer. (Ukrainian. English, Russian and Ukrainian summaries) **2005g:76110**

Choudhari, Meelan *see* **Rubinstein, Robert, 2005i:76068**

Chueshov, Igor D. *see* **Arnold, Ludwig et al., 2005g:76022**

Cutland, Nigel J. Stochastic Navier-Stokes equations: Loeb space techniques & attractors. (English summary) **2005i:60116**

Da Prato, Giuseppe (*with* Röckner, Michael) Invariant measures for a stochastic porous medium equation. (English summary) **2005h:60181**

— (*with* Röckner, Michael) Weak solutions to stochastic porous media equations. (English summary) **2005c:60078**

— *see also* **Barbu, Viorel et al., 2005h:35379** *and* **2005k:60190**

Davies, Ian M. (*with* Truman, Aubrey; Zhao, Huai Zhong) Stochastic heat and Burgers equations and the intermittence of turbulence. (English summary) (*see* **2005f:60008**)

— (*with* Truman, Aubrey; Zhao, Huai Zhong) Stochastic heat and Burgers equations and their singularities. II. Analytical properties and limiting distributions. (English summary) **2005m:60132**

— *see also* **Probabilistic methods in fluids, 2005c:60001**

Debbasch, F. (*with* Moreau, Michel) Diffusion on a curved surface: a geometrical approach. (English summary) **2005i:60151**

De Bouard, A. (*with* Debussche, Arnaud; Tsutsumi, Yoshio) Periodic solutions of the Korteweg-de Vries equation driven by white noise. (English summary) **2005k:60194**

Debussche, Arnaud The 2D-Navier-Stokes equations perturbed by a delta correlated noise. (English summary) **2005m:60133**

— *see also* **Barbu, Viorel et al., 2005h:35379**; **2005k:60190** *and* **De Bouard, A. et al., 2005k:60194**

Debusschere, Bert J. *see* **Le Maître, Olivier P. et al., 2005i:76094**

Demyanov, A. Yu. (*with* Dinariev, O. Yu.) Modeling of multicomponent multiphase mixture flows on the basis of the density-functional method. (English summary) **2005m:76183**

Dermoune, Azzouz (*with* Filali, Siham) Diffusion with interactions between two types of particles and pressureless gas equations. (English and French summaries) **2005d:60152**

— (*with* Filali, Siham) Estimates of the transition density of a gas system. (English summary) **2005k:60250**

(Desvillettes, Laurent) *see* **Bouchut, François et al., 2005d:82102**

Dinariev, O. Yu. *see* **Demyanov, A. Yu., 2005m:76183**

Duan, Jin Qiao *see* **Gugg, Christoph, 2005d:60095** *and* **Wang, Wei[6] et al., 2005k:60207**

Dubrulle, B. *see* **Leprovost, N. et al., 2005k:76138**

E, Wei-nan (*with* Li, Tiejun; Zhang, Ping Wen) Well-posedness for the dumbbell model of polymeric fluids. (English summary) **2005d:35210**

Eberhard, Jens Upscaling and dispersion for transport in heterogeneous media. (English summary) **2005e:76077**

Eyink, Gregory L. (*with* Restrepo, Juan M.; Alexander, Francis J.) A mean field approximation in data assimilation for nonlinear dynamics. (English summary) **2005f:82125**

Fannjiang, Albert C. Convergence of passive scalar fields in Ornstein-Uhlenbeck flows in Kraichnan's model. (English summary) **2005b:76074**

Ferrario, B. *see* **Al'beverio, S., 2005b:60151**

Filali, Siham *see* **Dermoune, Azzouz, 2005d:60152** *and* **2005k:60250**

Flandoli, Franco Some remarks on a statistical theory of turbulent flows. (English summary) **2005g:76069**

— (*with* Gubinelli, Massimiliano) Random currents and probabilistic models of vortex filaments. (English summary) (*see* **2005f:60008**)

— *see also* **Bessaih, H., 2005f:76047** *and* **2005m:76104**

Furtado, Frederico *see* **Artus, Vincent et al.**

Fusco, Giorgio *see* **Alikakos, Nicholas D. et al., 2005d:82092**

Galanti, B. (*with* Tsinober, A.) Is turbulence ergodic? (English summary) **2005e:76053**

Garnier, Josselin Scattering, spreading, and localization of an acoustic pulse by a random medium. (English summary) **2005d:60116**

Gati, Y. Numerical simulation of a micro-macro model of concentrated suspensions. (English summary) **2005i:76112**

Gawędzki, Krzysztof (*with* Horvai, Péter) Sticky behavior of fluid particles in the compressible Kraichnan model. (English summary) **2005g:76070**

Ghanem, Roger G. *see* **Le Maître, Olivier P. et al., 2005i:76094**

Giraud, Christophe Some properties of Burgers turbulence with White noise initial conditions. (English summary) (*see* **2005c:60001**)

Gliklikh, Yurĭ E. Deterministic viscous hydrodynamics via stochastic analysis on groups of diffeomorphisms. (English summary) **2005b:58055**

— Deterministic viscous hydrodynamics via stochastic processes on groups of diffeomorphisms. (English summary) **2005f:76029**

Glimm, James (*with* Grove, John W.; Kang, Yonghee; Lee, Taewon; Li, Xiao Lin[1]; Sharp, David H.; Yu, Yan[3]; Ye, Kenny Q.; Zhao, Ming[2]) Statistical Riemann problems and a composition law for errors in numerical solutions of shock physics problems. (English summary) **2005i:76071**

Golse, François *see* **Bouchut, François et al., 2005d:82102** *and* **Benedetto, Dario et al., 2005g:82109**

Gorostiza, Luis G. (*with* Porter, R. M.; Rodrigues, E. R.) A stochastic model for transport of size-structured particulate matter subject to fragmentation. (English summary) **2005c:76085**

Gottlieb, David *see* **Chen, Qian-Yong et al., 2005j:76075**

Goudon, Thierry (*with* Poupaud, Frédéric) On the modeling of the transport of particles in turbulent flows. (English summary) **2005g:76066**

Grove, John W. *see* **Glimm, James et al., 2005i:76071**

Gubinelli, Massimiliano *see* **Flandoli, Franco, (2005f:60008)**

Gugg, Christoph (*with* Duan, Jin Qiao) A Markov jump process approximation of the stochastic Burgers equation. (English summary) **2005d:60095**

Hairer, Martin (*with* Mattingly, Jonathan C.; Pardoux, Étienne) Malliavin calculus for highly degenerate 2D stochastic Navier-Stokes equations. (English and French summaries)

— (*with* Mattingly, Jonathan C.) Ergodic properties of highly degenerate 2D stochastic Navier-Stokes equations. (English and French summaries) **2005m:76047**

(Hassan, Oubay) *see* **Probabilistic methods in fluids, 2005c:60001**

He, Changming *see* **Hu, Bill X. et al.**

Hesthaven, Jan S. *see* **Chen, Qian-Yong et al., 2005j:76075**

Horvai, Péter *see* **Gawędzki, Krzysztof, 2005g:76070**

Hoyng, Peter The field, the mean and the meaning. **2005f:76112**

Hu, Bill X. (*with* Wu, Jichun; He, Changming) On stochastic modeling of groundwater flow and solute transport in multi-scale heterogeneous formations. (English summary)

Ivanov, Mikhail Samuilovich (*with* Korotchenko, M. A.; Mikhailov, Gennadii A.; Rogazinskiĭ, S. V.) New Monte Carlo global weight method for the approximate solution of the nonlinear Boltzmann equation. (English summary) **2005f:82121**

(Jacob, Niels) *see* **Probabilistic methods in fluids, 2005c:60001**

Jourdain, Benjamin (*with* Méléard, Sylvie) Probabilistic interpretation and particle method for vortex equations with Neumann's boundary condition. (English summary) **2005i:76033**

Junk, Michael *see* **Venkiteswaran, G., 2005h:82105**

Kang, Yonghee *see* **Glimm, James et al., 2005i:76071**

Karali, Georgia *see* **Alikakos, Nicholas D. et al., 2005d:82092**

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Kohatsu-Higa, Arturo *see* **Ogawa, Shigeyoshi, 2005d:60097**

Kolesnichenko, A. V. Thermodynamic description of developed turbulence taking into account coherent vortex structures. (Russian. English and Russian summaries) **2005j:76046**

Kolyukhin, D. R. (*with* Sabelfeld, Karl K.) Stochastic Eulerian model for the flow simulation in porous media. Unconfined aquifers. (English summary)

Komorowski, Tomasz (*with* Krupa, Grzegorz) On stationarity of Lagrangian observations of passive tracer velocity in a compressible environment. (English summary) **2005h:76045**

— (*with* Krupa, Grzegorz) A note on an application of the Lasota-Yorke fixed point theorem in the turbulent transport problem. (English summary) **2005c:76054**

— (*with* Peszat, Szymon) Transport of a passive tracer by an irregular velocity field. (English summary) **2005b:76070**

— (*with* Widelski, P.) Computation of the effective diffusivity tensor for transport of a passive scalar in a turbulent incompressible flow. (English summary) **2005k:60108**

Korotchenko, M. A. *see* **Ivanov, Mikhail Samuilovich et al., 2005f:82121**

Kraft, Markus *see* **Bhave, Amit, 2005c:80009**

Kramer, Peter R. (*with* Majda, Andrew J.) Stochastic mode reduction for the immersed boundary method. (English summary) **2005c:60085**

— (*with* Majda, Andrew J.) Stochastic mode reduction for particle-based simulation methods for complex microfluid systems. (English summary) **2005c:60086**

Krupa, Grzegorz A note on diffusions in compressible environments. (English summary) **2005i:60058**

— *see also* **Komorowski, Tomasz, 2005c:76054** *and* **2005h:76045**

Kuksin, Sergei B. (*with* Shirikyan, Armen) Some limiting properties of randomly forced two-dimensional Navier-Stokes equations. (English summary) **2005c:60079**

— (*with* Shirikyan, Armen) Randomly forced CGL equation: stationary measures and the inviscid limit. (English summary) **2005e:35214**

— The Eulerian limit for 2D statistical hydrodynamics. (English summary) **2005e:76030**

Kulasiri, Don (*with* Verwoerd, Wynand) ★ Stochastic dynamics. **2005c:76084**

Kuz'min, G. A. (*with* Soboleva, O. N.) Subgrid modeling of filtration in a porous medium with multiscale log-stable permeability. (English summary)

Langa, José A. (*with* Real Anguas, José; Simon, Jacques) Existence and regularity of the pressure for the stochastic Navier-Stokes equations. (English summary) **2005h:60187**

Le Bris, Claude (*with* Lions, Pierre-Louis) Renormalized solutions of some transport equations with partially $W^{1,1}$ velocities and applications. (English summary) **2005c:35036**

Lee, Jihoon (*with* Wu, Ming-Yih) Ergodicity for the dissipative Boussinesq equations with random forcing. (English summary) **2005i:35219**

Lee, Taewon *see* **Glimm, James et al., 2005i:76071**

Le Jan, Yves (*with* Raimond, Olivier) Flows, coalescence and noise. (English summary) **2005c:60075**

Lejay, Antoine Monte Carlo methods for fissured porous media: a gridless approach. (English summary)

Le Maître, Olivier P. (*with* Reagan, M. T.; Debusschere, Bert J.; Najm, Habib N.; Ghanem, Roger G.; Knio, Omar M.) Natural convection in a closed cavity under stochastic non-Boussinesq conditions. (English summary) **2005i:76094**

Leprovost, N. (*with* Dubrulle, B.; Chavanis, Pierre-Henri) Thermodynamics of magnetohydrodynamic flows with axial symmetry. (English summary) **2005k:76138**

Li, Tiejun (*with* Zhang, Ping Wen; Zhou, Xiang) Analysis of $1+1$ dimensional stochastic models of liquid crystal polymer flows. (English summary) **2005j:76005**

— *see also* **E, Wei-nan et al., 2005d:35210**

Li, Xiao Lin[1] *see* **Glimm, James et al., 2005i:76071**

Lions, Pierre-Louis *see* **Le Bris, Claude, 2005c:35036**

Loecher, Markus ★ Noise sustained patterns. **2005a:82056**

Lototskiĭ, S. V. (*with* Rozovskiĭ, B. L.) The passive scalar equation in a turbulent incompressible Gaussian velocity field. (Russian. Russian summary) **2005e:76051**

Love, Peter J. (*with* Boghosian, Bruce M.; Meyer, David A.) Lattice gas simulations of dynamical geometry in one dimension. (English summary) **2005c:76073**

— (*with* Boghosian, Bruce M.) On the dependence of the Navier-Stokes equations on the distribution of molecular velocities. (English summary) **2005g:76028**

— *see also* **Boghosian, Bruce M. et al., 2005d:76030**

Lu, Zhiming[1] (*with* Zhang, Dongxiao) A comparative study on uncertainty quantification for flow in randomly heterogeneous media using Monte Carlo simulations and conventional and KL-based moment-equation approaches. (English summary) **2005i:76105**

Majda, Andrew J. *see* **Kramer, Peter R., 2005c:60085**; **2005c:60086** *and* **Abramov, Rafail V., 2005j:62081**

Manouzi, Hassan (*with* Theting, Thomas Gorm) Mixed finite element approximation for

the stochastic pressure equation of Wick type. (English summary) **2005e:60150**
Martínez-Gamba, Irene *see* **Bobylev, A. V. et al., 2005g:82111**
Maryška, Jiří (*with* Severýn, Otto; Vohralík, Martin) Numerical simulation of fracture flow with a mixed-hybrid FEM stochastic discrete fracture network model. (English summary) **2005i:76106**
Mascagni, Michael *see* **Simonov, Nikolai A.**
Mattingly, Jonathan C. On recent progress for the stochastic Navier Stokes equations. (English summary) **2005b:60155**
— *see also* **Hairer, Martin et al., 2005m:76047**
Maury, Bertrand Direct simulation of aggregation phenomena. (English summary) **2005h:76080**
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Méléard, Sylvie *see* **Jourdain, Benjamin, 2005i:76033**
Meyer, David A. *see* **Love, Peter J. et al., 2005c:76073**
Mikhailov, Gennadii A. (*with* Rogazinskiĭ, S. V.) Weighted Monte Carlo methods for approximate solution of nonlinear Boltsmann equation. (English summary) (*see* **2005i:65006**)
— *see also* **Ivanov, Mikhail Samuilovich et al., 2005f:82121**
Mikulevicius, R. (*with* Rozovskiĭ, B. L.) Stochastic Navier-Stokes equations for turbulent flows. (English summary) **2005b:60156**
— (*with* Rozovskiĭ, B. L.) Global L_2-solutions of stochastic Navier-Stokes equations. (English summary) **2005k:60198**
Moreau, Michel *see* **Debbasch, F., 2005i:60151**
(Morgan, Kenneth) *see* **Probabilistic methods in fluids, 2005c:60001**
Moryakin, B. A. Recognition of a sonar object by the reflected signal. (Russian)
Musacchio, S. *see* **Celani, Antonio et al., 2005i:76061**
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Ochs, Gunter *see* **Arnold, Ludwig et al., 2005g:76022**
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Ossiander, Mina *see* **Thomann, Enrique, 2005g:76031**
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Petrie, C. J. S. *see* **Sergeev, Yu. A. et al., 2005d:82108**
Peyrard, Michel The statistical distributions of one-dimensional "turbulence". (English summary) **2005b:76075**
Piterbarg, Leonid I. On predictability of particle clusters in a stochastic flow. (English summary) **2005j:76050**
Porter, R. M. *see* **Gorostiza, Luis G. et al., 2005c:76085**
Pöschel, Thorsten (*with* Brilliantov, Nikolai V.; Schwager, Thomas) Long-time behavior of granular gases with impact-velocity dependent coefficient of restitution. (English summary) **2005d:82124**
Poupaud, Frédéric *see* **Goudon, Thierry, 2005g:76066**
Pulvirenti, Mario *see* **Bouchut, François et al., 2005d:82102** *and* **Benedetto, Dario et al., 2005g:82109**
Pumir, Alain *see* **Celani, Antonio et al., 2005b:76073**
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Real Anguas, José *see* **Langa, José A. et al., 2005h:60187**
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Robert, Raoul Statistical hydrodynamics (Onsager revisited). **2005a:76004**
Röckner, Michael (*with* Sobol, Zeev) A new approach to Kolmogorov equations in infinite dimensions and applications to stochastic generalized Burgers equations. (English and French summaries) **2005e:60135**
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Rubinstein, Robert (*with* Choudhari, Meelan) Uncertainty quantification for systems with random initial conditions using Wiener-Hermite expansions. (English summary) **2005i:76068**
Sabelfeld, Karl K. Stochastic Lagrangian models for simulation of particle transport in porous media. (English summary) (*see* **2005i:65006**)
— *see also* **Kolyukhin, D. R.**
Santos, A. (*with* Bedrikovetskiĭ, P. G.) Size exclusion during particle suspension transport in porous media: stochastic and averaged equations. (English summary) **2005m:76174**
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Sénéor, R. Global and perturbative approach to some equations of fluid dynamics. (English summary) **2005i:60123**
Sergeev, Yu. A. (*with* Swailes, D. C.; Petrie, C. J. S.) Stability of uniform fluidization revisited. (English summary) **2005d:82108**
Severýn, Otto *see* **Maryška, Jiřiet al., 2005i:76106**
Shakenov, K. Solution of one problem of linear relaxational filtration by Monte Carlo methods. (English summary) (*see* **2005i:65006**)
Sharp, David H. *see* **Glimm, James et al., 2005i:76071**
Shirikyan, Armen A version of the law of large numbers and applications. (English summary) **2005j:60063**
— Exponential mixing for 2D Navier-Stokes equations perturbed by an unbounded noise. (English summary) **2005c:37160**
— *see also* **Kuksin, Sergei B., 2005c:60079** *and* **2005e:35214**
Simon, Jacques *see* **Langa, José A. et al., 2005h:60187**
Simonov, Nikolai A. (*with* Mascagni, Michael) Random walk algorithms for estimating effective properties of digitized porous media. (English summary)
Sobol, Zeev *see* **Röckner, Michael, 2005e:60135**
Soboleva, O. N. *see* **Kuz'min, G. A.**
Spesivtsev, P. E. (*with* Teodorovich, E. V.) The velocity variance tensor in a plane seepage flow. (Russian. Russian summary) **2005e:76080**
Sun, Jian Hua[1] *see* **Wang, Wei[6] et al., 2005k:60207**
Sundar, Padamanbhan A note on the solution of a stochastic partial differential equation. (English summary) **2005b:60158**
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Teodorovich, E. V. *see* **Spesivtsev, P. E., 2005e:76080**
Theting, Thomas Gorm *see* **Manouzi, Hassan, 2005e:60150**
Thomann, Enrique (*with* Ossiander, Mina) Stochastic cascades applied to the Navier-Stokes equations. (English summary) **2005g:76031**
Tij, Mohamed (*with* Santos, Andrés) Poiseuille flow in a heated granular gas. (English summary) **2005g:76126**
Truman, Aubrey (*with* Reynolds, C. N.; Williams, David) Stochastic Burgers equation in D-dimensions—a one-dimensional analysis: hot and cool caustics and intermittence of stochastic turbulence. (English summary) **2005k:60205**
— (*with* Wu, Jiang-Lun) Stochastic Burgers equation with Lévy space-time white noise. (English summary) **2005k:60206**
— *see also* **Probabilistic methods in fluids, 2005c:60001**; **Davies, Ian M. et al., 2005c:60001**; **2005m:60132** *and* **(2005f:60008)**
Tsinober, A. *see* **Galanti, B., 2005e:76053**
Tsutsumi, Yoshio *see* **De Bouard, A. et al., 2005k:60194**
Twardowska, Krystyna (*with* Zabczyk, Jerzy) A note on stochastic Burgers' system of equations. (English summary) **2005f:35343**
Velamur Asokan, Badrinarayanan (*with* Zabaras, Nicholas) Variational multiscale stabilized FEM formulations for transport equations: stochastic advection-diffusion and incompressible stochastic Navier-Stokes equations. (English summary) **2005f:76068**
— (*with* Zabaras, Nicholas) Using stochastic analysis to capture unstable equilibrium in natural convection. (English summary) **2005k:76080**
Venkiteswaran, G. (*with* Junk, Michael) A QMC approach for high dimensional Fokker-Planck equations modelling polymeric liquids. (English summary) **2005h:82105**
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Vincenzi, D. *see* **Celani, Antonio et al., 2005i:76061**
Vohralík, Martin *see* **Maryška, Jiřiet al., 2005i:76106**
Wagner, Wolfgang[1] Stochastic models and Monte Carlo algorithms for Boltzmann type equations. (English summary) **2005d:82121**
Walkington, Noel J. Macroscopic models of fluids with microstructure. (English summary) **2005b:76006**
Wang, Wei[6] (*with* Sun, Jian Hua[1]; Duan, Jin Qiao) Ergodic dynamics of the stochastic Swift-Hohenberg system. (English summary) **2005k:60207**
Watanabe, Hisao Diffusion-approximations for Navier-Stokes equation in space-time Gaussian velocity field. (English summary) **2005k:60208**
(Weatherill, N. P.) *see* **Probabilistic methods in fluids, 2005c:60001**
Widelski, P. *see* **Komorowski, Tomasz, 2005k:60108**
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Wu, Ming-Yih *see* **Lee, Jihoon, 2005i:35219**
Xiu, Dongbin (*with* Karniadakis, George Em) Supersensitivity due to uncertain boundary conditions. (English summary) **2005f:76078**
Ye, Kenny Q. *see* **Glimm, James et al., 2005i:76071**
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Items listed otherwise than by author

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Crowdy, Darren Quadrature domains and fluid dynamics. (English summary) **2005m:76146**

Items with secondary classifications in 76M40

Carabineanu, Adrian On the steady subsonic flow with circulation past the circular cylinder. (English summary) **2005m:76108**

Crowdy, Darren Exact solutions for uniform vortex layers attached to corners and wedges. (English summary) **2005m:76037**
— (*with* Marshall, Jonathan Simon) Growing vortex patches. (English summary) **2005b:76024**
— (*with* Siegel, Michael) Exact solutions for the evolution of a bubble in Stokes flow: a Cauchy transform approach. (English summary) **2005m:76053**
Cummings, Linda Jane (*with* King, John Robert) Hele-Shaw flow with a point sink: generic solution breakdown. (English summary) **2005b:76049**
Dzhorbenadze, N. B. (*with* Tsitskishvili, R. A.; Tsitskishvili, A. R.) Inflow of under-ground waters to a perfect water catcher of triangular shape. (Russian. English and Georgian summaries) **2005b:76127**
Elizarov, A. M. (*with* Lapin, A. V.) Application of variational methods in inverse boundary value problems for analytic functions. (Russian) **2005h:30073**
Entov, V. M. (*with* Kolganov, S. S.; Kolganova, N. V.) Motion of inviscid fluid tongues and bubbles in a Hele-Shaw cell occupied by a viscoelastic fluid. (Russian. Russian summary) **2005m:76067**
Gramberg, Heike J. J. (*with* van Vroonhoven, Jos C. W.; van de Ven, Alphons A. F.) Flow patterns behind the free flow front for a Newtonian fluid injected between two infinite parallel plates. (English summary) **2005m:76077**
Gubkina, E. V. (*with* Monakhov, V. N.) Construction of a barrier curve in contact problems of the filtration of a fluid. (Russian) **2005g:76118**
— (*with* Monakhov, V. N.) Numerical approximation of contact problems of fluid filtration. (Russian. Russian summary) **2005k:65055**
Gustafsson, Björn Lectures on balayage. (English summary) **2005k:31001**
— (*with* Prokhorov, Dmitriĭ Valentinovich; Vasil′ev, A. Yu.) Infinite lifetime for the starlike dynamics in Hele-Shaw cells. (English summary) **2005k:30019**
Hellou, Mustapha Inversion transformation of Stokes flows bounded by parallel planes. (English summary) **2005g:76034**
Karachurin, N. T. *see* **Khasanov, M. M. et al., 2005f:76098**
Karlikov, V. P. (*with* Tolokonnikov, S. L.) Jet-cavitational streamline of the "atmosphere" of a pair of vortices. (Russian. Russian summary) **2005f:76024**
Khasanov, M. M. (*with* Mukhamedshin, R. K.; Karachurin, N. T.; Nikitin, P. S.; Utarbaev, A. I.) On stationary points of filtration fields. (Russian. English and Russian summaries) **2005f:76098**
King, John Robert *see* **Cummings, Linda Jane, 2005b:76049**
Kolganov, S. S. *see* **Entov, V. M. et al., 2005m:76067**
Kolganova, N. V. *see* **Entov, V. M. et al., 2005m:76067**
Krichever, Igor Moiseevich (*with* Mineev-Weinstein, M.; Wiegmann, P.; Zabrodin, A. V.) Laplacian growth and Whitham equations of soliton theory. (English summary) **2005h:37175**
Laanearu, Janek (*with* Lundberg, Peter) Analysis and improvement of a perturbation solution for hydraulic flow in a rotating parabolic channel. (English summary) **2005m:76085**
Lapin, A. V. *see* **Elizarov, A. M., 2005h:30073**
Lezhnev, V. G. The stream function for the plane flow problem, Robin's potential and the exterior Dirichlet problem. (Russian) **2005b:35229**
Lundberg, Peter *see* **Laanearu, Janek, 2005m:76085**
Mardanov, R. F. An inverse boundary value problem for an Ekranoplan airfoil with a blow-out reactive jet. (Russian. Russian summary) **2005a:76014**
Markina, Irina (*with* Vasil′ev, A. Yu.) Explicit solutions for Hele-Shaw corner flows. (English summary) **2005m:76069**
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Marshall, Jonathan Simon *see* **Crowdy, Darren, 2005b:76024**
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Nikitin, P. S. *see* **Khasanov, M. M. et al., 2005f:76098**
Obnosov, Yu. V. Solution of the $\mathbb{R}$-linear conjugation problem in the case of a hyperbolic line of separation of heterogeneous phases. (Russian) **2005h:30075**
Ogata, Hidenori Charge simulation method for two-dimensional compressible fluid flow. (English summary) **2005j:76054**
Plaksa, S. A. *see* **Mel′nichenko, I. P., 2005a:76015**
Prokhorov, Dmitriĭ Valentinovich (*with* Vasil′ev, A. Yu.) Convex dynamics in Hele-Shaw cells. (English summary) **2005j:76033**
— *see also* **Gustafsson, Björn et al., 2005k:30019**
Ruban, Victor P. Water waves over a strongly undulating bottom. (English summary) **2005j:76014**
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— *see also* **Dzhorbenadze, N. B. et al., 2005b:76127**
Tsitskishvili, R. A. *see* **Dzhorbenadze, N. B. et al., 2005b:76127**
Tur, A. V. (*with* Yanovsky, Vladimir) Point vortices with a rational necklace: new exact stationary solutions of the two-dimensional Euler equation. (English summary) **2005b:76029**
Utarbaev, A. I. *see* **Khasanov, M. M. et al., 2005f:76098**
Vasil′ev, A. Yu. (*with* Markina, Irina) On the geometry of Hele-Shaw flows with small surface tension. (English summary) **2005i:76042**
— *see also* **Prokhorov, Dmitriĭ Valentinovich, 2005j:76033**; **Gustafsson, Björn et al., 2005k:30019** *and* **Markina, Irina, 2005m:76069**
van de Ven, Alphons A. F. *see* **Gramberg, Heike J. J. et al., 2005m:76077**
van Vroonhoven, Jos C. W. *see* **Gramberg, Heike J. J. et al., 2005m:76077**
Wang, Qian Xi Interaction of two circular cylinders in inviscid fluid. (English summary) **2005f:76020**
Wiegmann, P. *see* **Krichever, Igor Moiseevich et al., 2005h:37175**
Yanovsky, Vladimir *see* **Tur, A. V., 2005b:76029**
Zabrodin, A. V. *see* **Krichever, Igor Moiseevich et al., 2005h:37175**

76M45 Asymptotic methods, singular perturbations

Bertola, V. (*with* Cafaro, E.) Intermediate asymptotic behaviour of fluid flows by scale-size analysis. (English summary) **2005i:76091**
Cafaro, E. *see* **Bertola, V., 2005i:76091**

Items with secondary classifications in 76M45

Akhmetov, R. G. Asymptotic expansion of the solution of the convective diffusion problem in the wake of a droplet. (Russian. Russian summary) **2005g:76109**
Arntzen, Ole Jakob Higher-order terms in the capillary limit approximation of viscous-capillary flow. (English summary) **2005c:76082**
Aslan, Yaşar *see* **Öziş, Turgut, 2005h:76030**
Auriault, Jean-Louis (*with* Geindreau, Christian; Boutin, Claude) Filtration law in porous media with poor separation of scales. (English summary) **2005k:76128**
Barenblatt, G. I. ★ Scaling. **2005e:00011**
Belan, Marco *see* **Tordella, Daniela, 2005j:76039**
Boukrouche, Mahdi (*with* El Mir, Rachid) Asymptotic analysis of a non-Newtonian fluid in a thin domain with Tresca law. (English summary) **2005f:35331**
Bourgeat, Alain (*with* Pankratov, L.; Panfilov, M.) Study of the double porosity model versus the fissures thickness. (English summary) **2005d:76041**
Boutin, Claude *see* **Auriault, Jean-Louis et al., 2005k:76128**
Brenner, Howard *see* **Yariv, Ehud et al., 2005a:76055**
Bresch, Didier (*with* Desjardins, Benoît; Gérard-Varet, David) Rotating fluids in a cylinder. (English summary) **2005e:76083**
Bunoiu, Renata (*with* Kesavan, Srinivasan) Asymptotic behaviour of a Bingham fluid in thin layers. (English summary) **2005b:76007**
Caillol, P. (*with* Grimshaw, Roger H. J.) Steady multipolar planar vortices with nonlinear critical layers. (English summary) **2005m:76036**
Čanić, Sunčica (*with* Lamponi, Daniele; Mikelić, Andro; Tambača, Josip) Self-consistent effective equations modeling blood flow in medium-to-large compliant arteries. (English summary) **2005m:76207**
Carbou, Gilles (*with* Fabrie, Pierre) Boundary layer for a penalization method for viscous incompressible flow. (English summary) **2005a:76041**
(Chorin, Alexandre J.) *see* **Barenblatt, G. I., 2005e:00011**
Cox, Stephen M. (*with* King, John Robert) Large-Reynolds-number asymptotics of the Berman problem. (English summary) **2005c:76029**
Desjardins, Benoît *see* **Bresch, Didier et al., 2005e:76083**
Dupuy, D. (*with* Panasenko, Grigory; Stavre, R.) Asymptotic methods for micropolar fluids in a tube structure. (English summary) **2005b:76035**
El Mir, Rachid *see* **Boukrouche, Mahdi, 2005f:35331**
Fabrie, Pierre *see* **Carbou, Gilles, 2005a:76041**
Geindreau, Christian *see* **Auriault, Jean-Louis et al., 2005k:76128**
Gelb, Anne *see* **Gleeson, James P. et al., 2005a:76167**
Gérard-Varet, David *see* **Bresch, Didier et al., 2005e:76083**
Gleeson, James P. (*with* Roche, Olivia M.; West, Jonathan; Gelb, Anne) Modelling annular micromixers. (English summary) **2005a:76167**
Grimshaw, Roger H. J. *see* **Caillol, P., 2005m:76036**
Iafrati, A. (*with* Korobkin, A. A.) Starting flow generated by the impulsive start of a floating wedge. (English summary) **2005m:76023**
Kesavan, Srinivasan *see* **Bunoiu, Renata, 2005b:76007**
Kim, Sangtae *see* **Yariv, Ehud et al., 2005a:76055**
King, John Robert *see* **Cox, Stephen M., 2005c:76029**
Kohr, Mirela An application of the method of matched asymptotic expansions for low Reynolds number flow past a cylinder of arbitrary cross section. (English summary) **2005j:76030**
Korobkin, A. A. *see* **Iafrati, A., 2005m:76023**
Lamponi, Daniele *see* **Čanić, Sunčica et al., 2005m:76207**
Lizárraga Celaya, Carlos *see* **Shingareva, Inna, 2005j:76009**
Mikelić, Andro *see* **Čanić, Sunčica et al., 2005m:76207**
Morgulis, A. B. High-frequency asymptotic for the forced periodical flows of an inviscid fluid through a given domain. (English summary) **2005m:76045**
Motsa, S. S. *see* **Sibanda, P. et al., 2005d:76014**
Nazarov, Sergei A. (*with* Specovius-Neugebauer, Maria) The pressure stabilization method for steady viscous flows in a system of pipes. (English and Russian summaries) **2005d:35212**
Öziş, Turgut (*with* Aslan, Yaşar) The semi-approximate approach for solving Burgers' equation with high Reynolds number. (English summary) **2005h:76030**
Panasenko, Grigory *see* **Dupuy, D. et al., 2005b:76035**
Panfilov, M. *see* **Bourgeat, Alain et al., 2005d:76041**
Pankratov, L. *see* **Bourgeat, Alain et al., 2005d:76041**
Rauch, Jeffrey (*with* Zhang, Xu[1]; Zuazua, Enrique) Polynomial decay for a hyperbolic-parabolic coupled system. (English and French summaries) **2005k:35024**
Roche, Olivia M. *see* **Gleeson, James P. et al., 2005a:76167**
Sazonov, L. I. Justification of the asymptotic expansion of the solution of a two-dimensional flow problem for small Reynolds numbers. (Russian. Russian summary) **2005c:35233**
Shateyi, S. *see* **Sibanda, P. et al., 2005d:76014**
Shingareva, Inna (*with* Lizárraga Celaya, Carlos) Critical curves in fluid structures. (Spanish. Spanish summary) **2005j:76009**
Sibanda, P. (*with* Motsa, S. S.; Shateyi, S.) Linear stability of two-dimensional flow to three-dimensional perturbations in a channel with a flexible wall. (English summary) **2005d:76014**
Specovius-Neugebauer, Maria *see* **Nazarov, Sergei A., 2005d:35212**
Stavre, R. *see* **Dupuy, D. et al., 2005b:76035**
Tambača, Josip *see* **Čanić, Sunčica et al., 2005m:76207**
Ter-Krikorov, A. M. Internal waves in the middle layer of a three-layer atmosphere from sources located in the lower layer. (Russian. Russian summary) **2005c:76025**

Tordella, Daniela (*with* Belan, Marco) On the domain of validity of the near-parallel combined stability analysis for the 2D intermediate and far bluff body wake. (English summary) **2005j:76039**
West, Jonathan *see* **Gleeson, James P. et al., 2005a:76167**
Wirosoetisno, D. Exponentially accurate balance dynamics. (English summary) **2005f:34158**
Yariv, Ehud (*with* Brenner, Howard; Kim, Sangtae) Curvature-induced dispersion in electro-osmotic serpentine flows. (English summary) **2005a:76055**
Zhang, Xu[1] *see* **Rauch, Jeffrey et al., 2005k:35024**
Zuazua, Enrique *see* **Rauch, Jeffrey et al., 2005k:35024**

76M50 Homogenization

Aoki, Kazuo[2] (*with* Degond, Pierre) Homogenization of a flow in a periodic channel of small section. (English summary) **2005g:76097**
Degond, Pierre *see* **Aoki, Kazuo[2], 2005g:76097**
Efendiev, Yalchin R. (*with* Pankov, A. A.) Numerical homogenization of nonlinear random parabolic operators. (English summary) **2005a:76129**
Murata, Souichi (*with* Nozaki, Kazuhiro) Renormalization group symmetry method and gas dynamics. (English summary) **2005a:76130**
Nozaki, Kazuhiro *see* **Murata, Souichi, 2005a:76130**
Pankov, A. A. *see* **Efendiev, Yalchin R., 2005a:76129**

Items with secondary classifications in 76M50

Abdulle, Assyr (*with* Attinger, Sabine) Homogenization method for transport of DNA particles in heterogeneous arrays. (English summary) **2005e:92022**
Addou, Ahmed (*with* Lidouh, A.) Modélisation d'un problème de contact à trois corps par homogénéisation de frontière. (English and French summaries) [Modelling a three-body contact problem by boundary homogenization] **2005m:35016**
Amar, Micol (*with* Gianni, Roberto) Effective saturation for composite porous media. (English and Italian summaries) **2005i:35139**
Amaziane, Brahim (*with* Ondami, Bienvenu) Homogenization of a three-phase flow model in porous media. (English summary) **2005c:35016**
Attinger, Sabine *see* **Abdulle, Assyr, 2005e:92022**
Auriault, Jean-Louis *see* **Chastanet, J. et al., 2005a:76153**
Bayada, Guy (*with* Martin, Sébastien; Vázquez Cendón, C.) Effets d'anisotropie par homogénéisation dans un problème à frontière libre. (English and French summaries) [Anisotropic effects by homogenization in a free boundary problem] **2005m:76057**
Belyaev, A. Yu. Homogenization of a parabolic operator with Signorini boundary conditions in perforated domains. (English summary) **2005h:35012**
Berlyand, Leonid (*with* Khruslov, Evgeniĭ Yakovlevich) Homogenized non-Newtonian viscoelastic rheology of a suspension of interacting particles in a viscous Newtonian fluid. (English summary) **2005c:76010**
— (*with* Cioranescu, Doina; Golovaty, Dmitry) Homogenization of a Ginzburg-Landau functional. (English and French summaries) **2005h:49030**
— (*with* Cioranescu, Doina; Golovaty, Dmitry) Homogenization of a Ginzburg-Landau model for a nematic liquid crystal with inclusions. (English and French summaries) **2005k:35014**
Bonnet-Ben Dhia, Anne-Sophie (*with* Drissi, Dorra; Gmati, N.) Simulation of muffler's transmission losses by a homogenized finite element method. (English summary) **2005f:76090**
Bourgeat, Alain (*with* Pankratov, L.; Panfilov, M.) Study of the double porosity model versus the fissures thickness. (English summary) **2005d:76041**
Braides, Andrea (*with* Chiadò Piat, Valeria; Pyatnitskii, Andrei L.) A variational approach to double-porosity problems. **2005h:35013**
Čanić, Sunčica (*with* Lamponi, Daniele; Mikelić, Andro; Tambača, Josip) Self-consistent effective equations modeling blood flow in medium-to-large compliant arteries. (English summary) **2005m:76207**
Ceccherini, F. (*with* Montagna, Chiara; Pegoraro, F.; Cicogna, Giampaolo) Two-dimensional Harris-Liouville plasma kinetic equilibria. (English summary) **2005m:76195**
Chastanet, J. (*with* Royer, Pascale; Auriault, Jean-Louis) Does Klinkenberg's law survive upscaling? (English summary) **2005a:76153**
Chen, Zhangxin (*with* Lyons, Stephen L.; Qin, Guan) The mechanical behavior of a poroelastic medium saturated with a Newtonian fluid. (English summary) **2005a:74034**
Chiadò Piat, Valeria *see* **Braides, Andrea et al., 2005h:35013**
Choquet, Catherine Derivation of the double porosity model of a compressible miscible displacement in naturally fractured reservoirs. (English summary) **2005a:76154**
Cicogna, Giampaolo *see* **Ceccherini, F. et al., 2005m:76195**
Cioranescu, Doina *see* **Berlyand, Leonid et al., 2005h:49030** *and* **2005k:35014**
Clementz, Ph. (*with* Pernin, J. N.) Homogenization modeling of capillary forces in selective laser sintering. (English summary) **2005b:74108**
Conca, Carlos (*with* Díaz Díaz, Jesús Ildefonso; Liñán, Amable; Timofte, Claudia) Homogenization in chemical reactive flows. (English summary) **2005a:35023**
Díaz Díaz, Jesús Ildefonso *see* **Conca, Carlos et al., 2005a:35023**
Drissi, Dorra *see* **Bonnet-Ben Dhia, Anne-Sophie et al., 2005f:76090**
Floriat, S. *see* **Panfilov, M., 2005f:76099**
Gianni, Roberto *see* **Amar, Micol, 2005i:35139**
Gilbert, Robert P. (*with* Panchenko, Alexander N.) Effective acoustic equations for a two-phase medium with microstructure. (English summary) **2005e:76074**
Gmati, N. *see* **Bonnet-Ben Dhia, Anne-Sophie et al., 2005f:76090**
Golovaty, Dmitry *see* **Berlyand, Leonid et al., 2005h:49030** *and* **2005k:35014**
Götz, Thomas (*with* Parhusip, H. A.) On an asymptotic expansion for Carreau fluids in porous media. (English summary) **2005m:76169**
Goudon, Thierry (*with* Poupaud, Frédéric) Homogenization of transport equations: weak mean field approximation. (English summary) **2005i:35016**
Hoàng, Viêt Hà Homogenization of the Stokes flow with small viscosity in a non-periodic porous medium. (English and Italian summaries) **2005f:35025**
Hou, Thomas Yizhao (*with* Yang, Dan-ping; Wang, Ke[4]) Homogenization of incompressible Euler equations. (English summary) **2005a:76095**
Khruslov, Evgeniĭ Yakovlevich *see* **Berlyand, Leonid, 2005c:76010**
Lamponi, Daniele *see* **Čanić, Sunčica et al., 2005m:76207**
Laschet, Gottfried Homogenization of the fluid flow and heat transfer in transpiration cooled multi-layer plates. (English summary)
Lidouh, A. *see* **Addou, Ahmed, 2005m:35016**
Liñán, Amable *see* **Conca, Carlos et al., 2005a:35023**
Lions, Pierre-Louis (*with* Souganidis, Panagiotis E.) Homogenization of "viscous" Hamilton-Jacobi equations in stationary ergodic media. (English summary) **2005k:35019**
— (*with* Masmoudi, Nader) Homogenization of the Euler system in a 2D porous medium. (English and French summaries) **2005k:35020**
Lyons, Stephen L. *see* **Chen, Zhangxin et al., 2005a:74034**
Martin, Sébastien *see* **Bayada, Guy et al., 2005m:76057**
Marušić, Sanja A note on permeability for a network of thin channels. (English summary) **2005g:35015**
Masmoudi, Nader *see* **Lions, Pierre-Louis, 2005k:35020**
Mikelić, Andro (*with* Primicerio, Mario) Blood perfusion in muscles: from microscopic models to continuum approach via homogenization. (English summary) (*see* **2005c:00016**)
— (*with* Rosier, Carole) Modeling solute transport through unsaturated porous media using homogenization. I. (English summary) **2005m:35018**
— (*with* Primicerio, Mario) Homogenization of a problem modeling remediation of porous media. (English summary) **2005h:35017**
— *see also* **Čanić, Sunčica et al., 2005m:76207**
Montagna, Chiara *see* **Ceccherini, F. et al., 2005m:76195**
Nandakumaran, Akambadath K. Homogenization of certain spectral problems. (English summary) (*see* **2005d:47001**)
Ondami, Bienvenu *see* **Amaziane, Brahim, 2005c:35016**
Overfelt, James R. *see* **Rodin, Gregory J., 2005i:65227**
Pak, Hee Chul Two-scale convergence for partial differential equations with random coefficients. (English summary) **2005d:35019**
Panchenko, Alexander N. *see* **Gilbert, Robert P., 2005e:76074**
Panfilov, M. (*with* Floriat, S.) Nonlinear two-phase mixing in heterogeneous porous media. (English summary) **2005f:76099**
— *see also* **Bourgeat, Alain et al., 2005d:76041**
Pankratov, L. *see* **Bourgeat, Alain et al., 2005d:76041**
Parhusip, H. A. *see* **Götz, Thomas, 2005m:76169**
Pegoraro, F. *see* **Ceccherini, F. et al., 2005m:76195**
Périn, Frédéric Bounds and asymptotic results for the effective viscosity of a nondilute suspension of oriented fibres in longitudinal flow. (English summary) **2005b:76132**
Pernin, J. N. *see* **Clementz, Ph., 2005b:74108**
Poupaud, Frédéric *see* **Goudon, Thierry, 2005i:35016**
Primicerio, Mario *see* **Mikelić, Andro, 2005h:35017** *and* **(2005c:00016)**
Pyatnitskii, Andrei L. *see* **Braides, Andrea et al., 2005h:35013**
Qin, Guan *see* **Chen, Zhangxin et al., 2005a:74034**
Rodin, Gregory J. (*with* Overfelt, James R.) Periodic conduction problems: the fast multipole method and convergence of integral equations and lattice sums. (English summary) **2005i:65227**
Rosier, Carole *see* **Mikelić, Andro, 2005m:35018**
Royer, Pascale *see* **Chastanet, J. et al., 2005a:76153**
Sandrakov, G. V. Multiphase diffusion models in homogenization. (Russian) **2005g:35181**
— Multiphase averaged diffusion models in a strongly inhomogeneous medium. (Russian)
Shi, Peter (*with* Spagnuolo, Anna Maria; Wright, Stephen James) Reiterated homogenization and the double-porosity model. (English summary) **2005m:76175**
Showalter, R. E. (*with* Visarraga, D. B.) Double-diffusion models from a highly-heterogeneous medium. (English summary) **2005e:35019**
Souganidis, Panagiotis E. *see* **Lions, Pierre-Louis, 2005k:35019**
Spagnuolo, Anna Maria (*with* Wright, Stephen James) Derivation of a multiple-porosity model of single-phase flow through a fractured porous medium via recursive homogenization. (English summary) **2005g:76121**
— *see also* **Shi, Peter et al., 2005m:76175**
Tambača, Josip *see* **Čanić, Sunčica et al., 2005m:76207**
Timofte, Claudia *see* **Conca, Carlos et al., 2005a:35023**
Vázquez Cendón, C. *see* **Bayada, Guy et al., 2005m:76057**
Visarraga, D. B. *see* **Showalter, R. E., 2005e:35019**
Wang, Ke[4] *see* **Hou, Thomas Yizhao et al., 2005a:76095**
Wright, Stephen James *see* **Spagnuolo, Anna Maria, 2005g:76121** *and* **Shi, Peter et al., 2005m:76175**
Yang, Dan-ping *see* **Hou, Thomas Yizhao et al., 2005a:76095**

76M55 Dimensional analysis and similarity

Items with secondary classifications in 76M55

Abd-El-Malek, Mina B. (*with* Kassem, Magda M.; Mekky, Mohammad L.) Similarity solutions for unsteady free-convection flow from a continuous moving vertical surface. (English summary) **2005a:76149**
Barenblatt, G. I. ★ Scaling. **2005e:00011**
— (*with* Chorin, Alexandre J.) A mathematical model for the scaling of turbulence. (English summary) **2005h:76048**
Battistin, D. (*with* Iafrati, A.) A numerical model for the jet flow generated by water impact. (English summary) **2005a:76011**
Bertola, V. (*with* Cafaro, E.) Intermediate asymptotic behaviour of fluid flows by scale-size analysis. (English summary) **2005i:76091**
Cafaro, E. *see* **Bertola, V., 2005i:76091**
Chapwanya, M. (*with* O'Brien, Stephen B. G.) Corner and start-up singularities in porous flow. (English summary) **2005g:76115**
Chorin, Alexandre J. *see* **Barenblatt, G. I., 2005e:00011** *and* **2005h:76048**
Clark, Timothy T. (*with* Zhou, Ye) Self-similarity of two flows induced by instabilities. (English summary) **2005a:76131**

Cox, Stephen M. (*with* King, John Robert) Large-Reynolds-number asymptotics of the Berman problem. (English summary) **2005c:76029**
— *see also* **King, John Robert**, **2005m:76060**
Dabrowski, Paul P. *see* **Denier, James P.**, **2005f:76005**
Denier, James P. (*with* Dabrowski, Paul P.) On the boundary-layer equations for power-law fluids. (English summary) **2005f:76005**
Gratton, Julio *see* **Perazzo, Carlos Alberto**, **2005h:76006**
Haber, Shimon Exact similarity solutions of coupled nonsteady Navier-Stokes and energy equations in liquids. (English summary) **2005a:76044**
Hamad, Mohammad A. A. *see* **Ibrahim, Fouad S. et al.**, **2005m:76148**
Iafrati, A. *see* **Battistin, D.**, **2005a:76011**
Ibrahim, Fouad S. (*with* Mansour, Mohammad A.; Hamad, Mohammad A. A.) Lie-group analysis of radiative and magnetic field effects on free convection and mass transfer flow past a semi-infinite vertical flat plate. (English summary) **2005m:76148**
Kassem, Magda M. *see* **Abd-El-Malek, Mina B. et al.**, **2005a:76149**
King, John Robert (*with* Cox, Stephen M.) Self-similar "stagnation point" boundary layer flows with suction or injection. (English summary) **2005m:76060**
— *see also* **Cox, Stephen M.**, **2005c:76029**
Kolář, Václav On exact similarity solutions of the unsteady Navier-Stokes equations. (English summary)
Mansour, Mohammad A. *see* **Ibrahim, Fouad S. et al.**, **2005m:76148**
Mekky, Mohammad L. *see* **Abd-El-Malek, Mina B. et al.**, **2005a:76149**
O'Brien, Stephen B. G. *see* **Chapwanya, M.**, **2005g:76115**
Perazzo, Carlos Alberto (*with* Gratton, Julio) Exact solutions for two-dimensional steady flows of a power-law liquid on an incline. (English summary) **2005h:76006**
Renardy, Michael A comment on self-similar breakup for inertialess Newtonian liquid jets. (English summary) **2005k:76038**
Wang, Chun Peng *see* **Yin, Jing Xue**, **2005a:35169**
Yin, Jing Xue (*with* Wang, Chun Peng) Shrinking similar solutions of a convection diffusion equation. (English summary) **2005a:35169**
Yürüsoy, Muhammet Similarity solutions of boundary layer equations for a special non-Newtonian fluid in a special coordinate system. (English summary)
Zhou, Ye *see* **Clark, Timothy T.**, **2005a:76131**

76M60 Symmetry analysis, Lie group and algebra methods

Abd-El-Malek, Mina B. (*with* Helal, M. M.) Characteristic function method for classification of equations of hydrodynamics of a perfect fluid. (English summary) **2005m:76147**
— *see also* **Helal, M. M.**, **2005f:76081**
Andreev, V. K. (*with* Bublik, Vasilii Vital'evich; Bytev, V. O.) ★ Симметрии неклассических моделей гидродинамики. (Russian) [Symmetries of nonclassical models of hydrodynamics] **2005j:76072**
Asghar, Saleem *see* **Mohyuddin, Muhammad R. et al.**, **2005a:76132**
Balassas, Konstantinos G. *see* **Kalpakidis, V. K.**, **2005d:76033**
Bublik, Vasilii Vital'evich *see* **Andreev, V. K. et al.**, **2005j:76072**
Bytev, V. O. *see* **Andreev, V. K. et al.**, **2005j:76072**
Clark, Timothy T. (*with* Zhou, Ye) Self-similarity of two flows induced by instabilities. (English summary) **2005a:76131**
Hamad, Mohammad A. A. *see* **Ibrahim, Fouad S. et al.**, **2005m:76148**
Hayat, Tasawar *see* **Mohyuddin, Muhammad R. et al.**, **2005a:76132**
Helal, M. M. (*with* Abd-El-Malek, Mina B.) Group method analysis of magneto-elastico-viscous flow along a semi-infinite flat plate with heat transfer. (English summary) **2005f:76081**
— *see also* **Abd-El-Malek, Mina B.**, **2005m:76147**
Ibrahim, Fouad S. (*with* Mansour, Mohammad A.; Hamad, Mohammad A. A.) Lie-group analysis of radiative and magnetic field effects on free convection and mass transfer flow past a semi-infinite vertical flat plate. (English summary) **2005m:76148**
Jahn, Oliver (*with* Sreedhar, V. V.; Virmani, Amitabh) Symmetries of discontinuous flows and the dual Rankine-Hugoniot conditions in fluid dynamics. (English summary) **2005j:76073**
Kalpakidis, V. K. (*with* Balassas, Konstantinos G.) Symmetry groups and similarity solutions for a free convective boundary-layer problem. (English summary) **2005d:76033**
Mahomed, F. M. *see* **Mohyuddin, Muhammad R. et al.**, **2005a:76132**
Mansour, Mohammad A. *see* **Ibrahim, Fouad S. et al.**, **2005m:76148**
Mazumdar, H. P. *see* **Umut, Omur et al.**
Meleshko, S. V. *see* **Thailert, K.**, **(2005c:00016)**
Mohyuddin, Muhammad R. (*with* Hayat, Tasawar; Mahomed, F. M.; Asghar, Saleem; Siddiqui, Abdul Majeed) On solutions of some non-linear differential equations arising in Newtonian and non-Newtonian fluids. (English summary) **2005a:76132**
Murata, Souichi New class of symmetries and exact solution to the unsteady equations of adiabatic gas dynamics. (English summary)
Poria, S. *see* **Umut, Omur et al.**
Saccomandi, Giuseppe A remarkable class of non-classical symmetries of the steady two-dimensional boundary-layer equations. (English summary) **2005b:76107**
Siddiqui, Abdul Majeed *see* **Mohyuddin, Muhammad R. et al.**, **2005a:76132**
Sreedhar, V. V. *see* **Jahn, Oliver et al.**, **2005j:76073**
Thailert, K. (*with* Meleshko, S. V.) On partially invariant solutions of the Navier-Stokes equations. (English summary) (*see* **2005c:00016**)
Umut, Omur (*with* Poria, S.; Mazumdar, H. P.) Application of group-theoretic method to the flow of a fluid past a wedge. (English summary)
Virmani, Amitabh *see* **Jahn, Oliver et al.**, **2005j:76073**
Wafo Soh, C. Invariant solutions of the unidirectional flow of an electrically charged power-law non-Newtonian fluid over a flat plate in presence of a transverse magnetic field. (English summary) **2005g:76098**
Yürüsoy, Muhammet Group classification of three-dimensional boundary layer equations of a class of non-Newtonian fluids. (English summary) **2005g:76099**
— Similarity solutions for creeping flow and heat transfer in second grade fluid. (English summary) **2005b:76108**
Zhou, Ye *see* **Clark, Timothy T.**, **2005a:76131**

Items with secondary classifications in 76M60

Abd-El-Malek, Mina B. (*with* Kassem, Magda M.; Mekky, Mohammad L.) Similarity solutions for unsteady free-convection flow from a continuous moving vertical surface. (English summary) **2005a:76149**
Abelman, S. *see* **Momoniat, Ebrahim et al.**, **2005h:76011**
Aldama Rodríguez, Álvaro Alberto *see* **Mercado E., J. R. et al.**, **2005c:76027**
Aristov, S. N. (*with* Pukhnachev, V. V.) On equations of the rotationally symmetric motion of a viscous incompressible fluid. (Russian)
Asghar, Saleem *see* **Hayat, Tasawar et al.**, **2005m:76012**
Bagderina, Yu. Yu. Approximately invariant solutions of a two-dimensional nonlinear diffusion equation. (Russian)
Brambila-Paz, Fernando *see* **Mercado E., J. R. et al.**, **2005c:76027**
Bridges, Thomas J. (*with* Hydon, Peter E.; Reich, Sebastian) Vorticity and symplecticity in Lagrangian fluid dynamics. (English summary) **2005h:76020**
Broadbridge, Philip *see* **Moitsheki, R. J. et al.**
Ceccherini, F. (*with* Cicogna, Giampaolo; Pegoraro, F.) Symmetry properties of a system of Euler-type equations for magnetized plasmas. (English summary) **2005m:35012**
Chen, Zu Chi *see* **Fakhar, K.**
Cheviakov, Alexei F. Bogoyavlenskij symmetries of isotropic and anisotropic MHD equilibria as Lie point transformations. (English summary) **2005b:76136**
Cicogna, Giampaolo *see* **Ceccherini, F. et al.**, **2005m:35012**
Dolapçı, İ. T. (*with* Pakdemirli, M.) Approximate symmetries of creeping flow equations of a second grade fluid. (English summary) **2005c:76005**
— *see also* **Pakdemirli, M. et al.**, **2005f:35013**
Edwards, M. P. *see* **Moitsheki, R. J. et al.**
El-Kafri, Manal *see* **Wiltshire, Ron**, **2005a:76155**
Èskin, L. D. Equations that describe the dynamics of a non-Newtonian fluid with the Reiner-Rivlin rheological law. I. Group analysis. (Russian) **2005c:76006**
— Equations that describe the dynamics of a non-Newtonian fluid with a Reiner-Rivlin rheological law. II. (Russian) **2005e:76003**
— *see also* **Tonkonog, S. L.**, **2005c:76009**
Fakhar, K. (*with* Chen, Zu Chi) Steady flow of third grade fluid subject to suction. (English summary)
Gaite, José Symmetry in anisotropic rotating turbulence. (English summary)
Golovin, S. V. Group foliation of Euler equations in nonstationary rotationally symmetrical case. (English summary) **2005d:35011**
— Irrotational barochronous gas motions. (English summary) **2005b:76112**
Grassi, Vittorio (*with* Leo, R. A.; Soliani, G.; Tempesta, Piergiulio) Vortices and invariant surfaces generated by symmetries for the 3D Navier-Stokes equations. (English summary) **2005c:76036a**
— (*with* Leo, R. A.; Soliani, G.; Tempesta, Piergiulio) Erratum to: "Vortices and invariant surfaces generated by symmetries for the 3D Navier-Stokes equations" [Phys. A **286** (2000), no. 1-2, 79–108; MR1987481 (2005c:76036a)]. **2005c:76036b**
Grundland, A. M. (*with* Picard, Phillipe Lucien) Invariant and conditionally invariant solutions of magnetohydrodynamic equations in $(3+1)$ dimensions. (English summary) **2005b:76141**
Hayat, Tasawar (*with* Kara, A. H.; Momoniat, Ebrahim) The unsteady flow of a fourth-grade fluid past a porous plate. (English summary) **2005m:76007**
— (*with* Mahomed, F. M.; Asghar, Saleem) Peristaltic flow of a magnetohydrodynamic Johnson-Segalman fluid. (English summary) **2005m:76012**
Hill, James M. *see* **McCue, Scott W. et al.**, **2005i:74020**
Holm, Darryl D. (*with* Marsden, Jerrold E.; Ratiu, Tudor S.) The Euler-Poincaré equations in geophysical fluid dynamics. **2005c:37167**
Hydon, Peter E. *see* **Bridges, Thomas J. et al.**, **2005h:76020**
Ibragimov, Nail Introduction [Special issue on modern group analysis].
Jena, J. Group theoretic method for analyzing interaction of a weak discontinuity wave with a bore in shallow water waves. (English summary) **2005i:76044**
Johnpillai, I. Kenneth *see* **McCue, Scott W. et al.**, **2005i:74020**
Kaptsov, O. V. (*with* Zabluda, A. V.) Characteristic invariants and Darboux's method. (English summary) **2005k:35007**
Kara, A. H. *see* **Hayat, Tasawar et al.**, **2005m:76007**
Karpova, S. A. *see* **Loginov, B. V.**, **2005h:76017**
Kassem, Magda M. *see* **Abd-El-Malek, Mina B. et al.**, **2005a:76149**
Khabirov, S. V. Definition of the differential invariant submodels and an example of its classification. (English summary) **2005a:35017**
Kovalev, Vladimir F. (*with* Shirkov, Dmitrii V.) The renormalization group symmetry for solution of integral equations. (English summary)
Kuo, Bor-Lih Application of the differential transformation method to the solutions of the free convection problem. (English summary) **2005k:76124**
LeFloch, Philippe G. (*with* Shelukhin, Vladimir) Symmetries and global solvability of the isothermal gas dynamics equations. (English summary) **2005m:35179**
— *see also* **Shelukhin, Vladimir**
Leo, R. A. *see* **Grassi, Vittorio et al.**, **2005c:76036a** *and* **2005c:76036b**
Loginov, B. V. (*with* Karpova, S. A.) Computation of periodic solutions in the problem of capillary-gravity waves in a three-dimensional layer of a floating fluid. (Russian. English and Russian summaries) **2005h:76017**
Mahomed, F. M. *see* **Hayat, Tasawar et al.**, **2005m:76012**
Mamontov, Evgenii Vladimirovich Strong discontinuities in 2-submodels of class E of gas dynamic equations. (Russian. Russian summary) **2005k:76111**
Marsden, Jerrold E. *see* **Holm, Darryl D. et al.**, **2005c:37167**
Mason, D. P. *see* **Ruscic, I.**, **2005f:76038**
McCue, Scott W. (*with* Johnpillai, I. Kenneth; Hill, James M.) New stress and velocity fields for highly frictional granular materials. (English summary) **2005i:74020**
Mekky, Mohammad L. *see* **Abd-El-Malek, Mina B. et al.**, **2005a:76149**
Meleshko, S. V. General solution of DP-conditions for simple wave type solutions of the one-dimensional gas dynamics equations. (English summary)
— A particular class of partially invariant solutions of the Navier-Stokes equations. (English summary) **2005j:35169**
Mercado E., J. R. (*with* Aldama Rodríguez, Álvaro Alberto; Brambila-Paz, Fernando) An inverse problem in the Saint-Venant equations. (Spanish. Spanish summary)

2005c:76027

Moitsheki, R. J. (*with* Broadbridge, Philip; Edwards, M. P.) Symmetry solutions for transient solute transport in unsaturated soils with realistic water profile. (English summary)

Momoniat, Ebrahim (*with* Myers, T. G.; Abelman, S.) New solutions for surface tension driven spreading of a thin film. (English summary) **2005h:76011**

— *see also* **Wafo Soh, C., 2005b:35248** *and* **Hayat, Tasawar et al., 2005m:76007**

Myers, T. G. *see* **Momoniat, Ebrahim et al., 2005h:76011**

Özer, Teoman On symmetry group properties and general similarity forms of the Benney equations in the Lagrangian variables. (English summary) **2005e:45017**

— Symmetry group analysis of Benney system and an application for shallow-water equations. (English summary) **2005k:35010**

Pakdemirli, M. (*with* Yürüsoy, Muhammet; Dolapçi, İ. T.) Comparison of approximate symmetry methods for differential equations. (English summary) **2005f:35013**

— *see also* **Dolapçi, İ. T., 2005c:76005**

Pegoraro, F. *see* **Ceccherini, F. et al., 2005m:35012**

Picard, Phillipe Lucien *see* **Grundland, A. M., 2005b:76141**

Pukhnachev, V. V. *see* **Aristov, S. N.**

Ratiu, Tudor S. *see* **Holm, Darryl D. et al., 2005c:37167**

Reich, Sebastian *see* **Bridges, Thomas J. et al., 2005h:76020**

Rogers, Colin (*with* Schief, Wolfgang Karl) Vortex trains in super-Alfvénic magnetogas-dynamics. Application of reciprocal-Bäcklund transformations. (English summary) **2005h:76090**

Romano, V. (*with* Valenti, Antonino) Exact invariant solutions for a class of energy-transport models of semiconductors in the two dimensional stationary case. (English summary)

Ruscic, I. (*with* Mason, D. P.) Group invariant solution and conservation law for a steady laminar axisymmetric free jet. (English summary) **2005f:76038**

Schief, Wolfgang Karl *see* **Rogers, Colin, 2005h:76090**

Sheftel′, M. B. Symmetry group analysis and invariant solutions of hydrodynamic-type systems. (English summary) **2005e:35010**

Shelukhin, Vladimir (*with* LeFloch, Philippe G.) Symmetries and global solvability of the Cauchy problem for equations of the gas dynamics of isothermal flows. (Russian)

— *see also* **LeFloch, Philippe G., 2005m:35179**

Shirkov, Dmitrii V. *see* **Kovalev, Vladimir F.**

Soliani, G. *see* **Grassi, Vittorio et al., 2005c:76036a** *and* **2005c:76036b**

Tempesta, Piergiulio Lie symmetries and weak transversality. (Russian. Russian summary) **2005c:35012**

— *see also* **Grassi, Vittorio et al., 2005c:76036a** *and* **2005c:76036b**

Tonkonog, S. L. (*with* Èskin, L. D.) On the accuracy of approximate symmetries of equations of the dynamics of a non-Newtonian fluid and their invariant solutions. II. (Russian) **2005c:76009**

Valenti, Antonino *see* **Romano, V.**

Vizman, Cornelia Central extensions of semidirect products and geodesic equations. (English summary) **2005e:37179**

Wafo Soh, C. (*with* Momoniat, Ebrahim) A Lie group investigation of exact weakly nonlinear quasi-planar sound waves. (English summary) **2005b:35248**

— Symmetry reductions and new exact invariant solutions of the generalized Burgers equation arising in nonlinear acoustics. (English summary) **2005c:35260**

Wiltshire, Ron (*with* El-Kafri, Manal) Non-classical and potential symmetry analysis of Richard's equation for moisture flow in soil. (English summary) **2005a:76155**

Wu, Zi-Niu A note on the flow equations under space-time transformation. (English summary) **2005c:76028**

Yürüsoy, Muhammet *see* **Pakdemirli, M. et al., 2005f:35013**

Zabluda, A. V. *see* **Kaptsov, O. V., 2005k:35007**

76M99 None of the above, but in this section

Hasegawa, Takashi *see* **Xiao, Feng[1] et al.**

Ikebata, Akio *see* **Xiao, Feng[1] et al.**

Xiao, Feng[1] (*with* Ikebata, Akio; Hasegawa, Takashi) Numerical simulations of free-interface fluids by a multi-integrated moment method. (English summary)

Items with secondary classifications in 76M99

Azuma, Akira (*with* Okamoto, Masato) Theoretical study on two-dimensional aerodynamic characteristics of unsteady wings. (English summary)

Farge, Marie *see* **Schneider, Kai et al., 2005j:76048**

Kevlahan, Nicholas *see* **Schneider, Kai et al., 2005j:76048**

Ochkov, Valery *see* **Solodov, Alexander**

Okamoto, Masato *see* **Azuma, Akira**

Omata, Seiro A numerical treatment of film motion with free boundary. (English summary) **2005i:65146**

Rowley, C. W. Model reduction for fluids, using balanced proper orthogonal decomposition. (English summary) **2005k:37201**

Schneider, Kai (*with* Farge, Marie; Kevlahan, Nicholas) Spatial intermittency in two-dimensional turbulence: a wavelet approach. (English summary) **2005j:76048**

Solodov, Alexander (*with* Ochkov, Valery) ★ Differential models.

Tarasov, V. E. Fractional hydrodynamic equations for fractal media. (English summary) **2005m:76176**

76Nxx Compressible fluids and gas dynamics, general

76N10 Existence, uniqueness, and regularity theory [see also 35L60, 35L65, 35Q30]

Bresch, Didier (*with* Desjardins, Benoît; Lin, Chi-Kun) On some compressible fluid models: Korteweg, lubrication, and shallow water systems. (English summary) **2005b:76109**

Carbou, Gilles Penalization method for viscous incompressible flow around a porous thin layer. **2005d:76034**

Cho, Yonggeun (*with* Choe, Hi Jun; Kim, Hyunseok) Unique solvability of the initial boundary value problems for compressible viscous fluids. (English and French summaries) **2005a:76133**

Choe, Hi Jun *see* **Cho, Yonggeun et al., 2005a:76133**

Desjardins, Benoît *see* **Bresch, Didier et al., 2005b:76109**

De Souza, A. J. *see* **Doronin, Gleb G. et al., 2005b:76110**

Doronin, Gleb G. (*with* Lar′kin, Nikolai A.; De Souza, A. J.) Existence and stability of global regular solutions for a dusty gas model. (English summary) **2005b:76110**

Feireisl, Eduard ★ Dynamics of viscous compressible fluids. **2005i:76092**

Gavrilyuk, Ivan P. (*with* Lukovskiĭ, I. A.; Timokha, A. N.) Two-dimensional variational vibroequilibria and Faraday's drops. (English summary) **2005g:76100**

Huang, Feimin (*with* Matsumura, Akitaka; Shi, Xiaoding) On the stability of contact discontinuity for compressible Navier-Stokes equations with free boundary. **2005k:76108**

Iwata, Yoritaka (*with* Yamamoto, Yoshitaka) Stability of equilibriums in one-dimensional motion of compressible viscous gas forced by self-gravity. (English summary) **2005g:76101**

Kim, Hyunseok *see* **Cho, Yonggeun et al., 2005a:76133**

Kopylova, N. T. Stabilization of the solution of a nonstationary problem of electrogas-dynamics in the case of a viscous heat conducting gas. (Russian. English summary) **2005j:76074**

Lar′kin, Nikolai A. *see* **Doronin, Gleb G. et al., 2005b:76110**

LeVeque, Randall J. The dynamics of pressureless dust clouds and delta waves. (English summary) **2005k:76109**

Lewicka, Marta (*with* Mucha, Piotr Bogusław) On temporal asymptotics for the pth power viscous reactive gas. (English summary) **2005f:76082**

Lin, Chi-Kun *see* **Bresch, Didier et al., 2005b:76109**

Lukovskiĭ, I. A. *see* **Gavrilyuk, Ivan P. et al., 2005g:76100**

Matsumura, Akitaka *see* **Huang, Feimin et al., 2005k:76108**

Mucha, Piotr Bogusław *see* **Lewicka, Marta, 2005f:76082**

Mujaković, Nermina One-dimensional flow of a compressible viscous micropolar fluid stabilization of the solution. (English summary) **2005k:76110**

Nečasová, Šárka (*with* Penel, Patrick) Steady fall of a body in viscous compressible fluids. (English summary) **2005g:76102**

Penel, Patrick *see* **Nečasová, Šárka, 2005g:76102**

Peng, Yue-Jun (*with* Wang, Ya-Guang) Convergence of compressible Euler-Poisson equations to incompressible type Euler equations. (English summary) **2005m:76149**

Salvi, Rodolfo The initial value problem for the equations of the motion of compressible viscous fluid with slip boundary condition. (English summary) **2005e:76069**

Segeth, Karel *see* **Šolín, Pavel, 2005f:76083**

Shi, Xiaoding *see* **Huang, Feimin et al., 2005k:76108**

Šolín, Pavel (*with* Segeth, Karel) Non-uniqueness of almost unidirectional inviscid compressible flow. (English summary) **2005f:76083**

Straškraba, Ivan (*with* Zlotnik, A. A.) Erratum: "Global behavior of 1d-viscous compressible barotropic fluid with a free boundary and large data" [J. Math. Fluid Mech. 5 (2003), no. 2, 119–143; MR1982325 (2004c:76120)]. **2005a:76134**

Tanaka, Naoto (*with* Tani, Atusi) Surface waves for a compressible viscous fluid. (English summary) **2005e:76070**

Tani, Atusi *see* **Tanaka, Naoto, 2005e:76070**

Timokha, A. N. *see* **Gavrilyuk, Ivan P. et al., 2005g:76100**

Wang, Ya-Guang *see* **Peng, Yue-Jun, 2005m:76149**

Yamamoto, Yoshitaka *see* **Iwata, Yoritaka, 2005g:76101**

Zlotnik, A. A. *see* **Straškraba, Ivan, 2005a:76134**

Items with secondary classifications in 76N10

Alazard, Thomas Incompressible limit of the nonisentropic Euler equations with the solid wall boundary conditions. (English summary) **2005m:35231**

Alì, Giuseppe Low Mach number flows in time-dependent domains. (English summary) **2005f:35195**

Amirat, Youcef (*with* Ziani, Abdelhamid) Global weak solutions for a degenerate parabolic system modelling a one-dimensional compressible miscible flow in porous media. (English and Italian summaries) **2005k:35177**

— (*with* Ziani, Abdelhamid) Classical solutions for a multicomponent flow model in porous media. (English summary) **2005e:35186**

Andrianov, Nikolai (*with* Warnecke, Gerald G.) On the solution to the Riemann problem for the compressible duct flow. (English summary) **2005c:35189**

Asakura, Fumioki Wave-front tracking for the equations of isentropic gas dynamics. (English summary) **2005k:35256**

Bellouquid, Abdelghani From discrete Boltzmann equation to compressible linearized Euler equations. (English summary) **2005k:82080**

— On the asymptotic analysis of kinetic models towards the compressible Euler and acoustic equations. (English summary) **2005i:76096**

Blokhin, A. M. (*with* Trakhinin, Yu. L.) On a modified shock front problem for the compressible Navier-Stokes equations. (English summary) **2005c:35228**

Boulakia, Muriel Existence of weak solutions for an interaction problem between an elastic structure and a compressible viscous fluid. (English and French summaries) **2005i:35207**

Cannone, Marco *see* **Lombardo, Maria Carmela et al., 2005a:76137**

Chen, Gui Qiang (*with* Feldman, Mikhail) Existence and stability of multidimensional transonic shocks for the Euler equations for steady potential fluids in unbounded domains. **2005c:35238**

— (*with* Hoff, David; Trivisa, Konstantina) Analysis on a model for the dynamic combustion of a compressible, reacting fluid. (English summary) **2005a:76164**

— (*with* Su, Bo) A viscous approximation for a multidimensional unsteady Euler flow: existence theorem for potential flow. (English summary) **2005a:35224**

— (*with* Li, Tian-Hong) Global entropy solutions in L^∞ to the Euler equations and Euler-Poisson equations for isothermal fluids with spherical symmetry. (English summary) **2005f:35255**

— (*with* Wang, Dehua[1]) Existence and continuous dependence of large solutions for the magnetohydrodynamic equations. (English summary) **2005b:35227**

— (*with* Feldman, Mikhail) Free boundary problems and transonic shocks for the Euler equations in unbounded domains. (English summary) **2005i:35295**
— (*with* Li, Yachun) Relativistic Euler equations for isentropic fluids: stability of Riemann solutions with large oscillation. (English summary) **2005h:35277**
Chen, Shuxing A free boundary problem of elliptic equation arising in supersonic flow past a conical body. (English summary) **2005c:35299**
— (*with* Wang, Zejun; Zhang, Yongqian) Global existence of shock front solutions to the axially symmetric piston problem for compressible fluids. (English summary) **2005a:35189**
Cheverry, Christophe Propagation of oscillations in real vanishing viscosity limit. (English summary) **2005d:35154**
Choe, Hi Jun (*with* Kim, Hyunseok) Global existence of the radially symmetric solutions of the Navier-Stokes equations for the isentropic compressible fluids. (English summary) **2005h:35267**
Choquet, Catherine On a nonlinear parabolic system modelling miscible compressible displacement in porous media. (English summary) **2005k:76130**
Coulombel, Jean-François (*with* Secchi, Paolo) On the transition to instability for compressible vortex sheets. (English summary) **2005j:35226**
Cui, Guo-zhong *see* **Qin, Yu-ming et al., 2005m:35228**
Danchin, Raphaël Zero Mach number limit for compressible flows with periodic boundary conditions. (English summary) **2005d:35208**
— Zero Mach number limit in critical spaces for compressible Navier-Stokes equations. (English and French summaries) **2005f:35238**
Degond, Pierre (*with* Parzani, Céline; Vignal, Marie-Hélène) Plasma expansion in vacuum: modeling the breakdown of quasi neutrality. (English summary) **2005h:82107**
Deng, Yinbin (*with* Xiang, Jianlin; Yang, Tong) Blowup phenomena of solutions to Euler-Poisson equations. (English summary) **2005c:35239**
Ding, Yi[1] (*with* Huang, Feimin) On a nonhomogeneous system of pressureless flow. (English summary) **2005i:35172**
Dolejší, Vít (*with* Feistauer, Miloslav) A semi-implicit discontinuous Galerkin finite element method for the numerical solution of inviscid compressible flow. (English summary) **2005b:76085**
Doronin, Gleb G. On the solvability of the Cauchy problem for the dusty gas equations. (English and Portuguese summaries)
Ducomet, Bernard (*with* Feireisl, Eduard) On the dynamics of gaseous stars. **2005m:35223**
— (*with* Feireisl, Eduard; Petzeltová, Hana; Straškraba, Ivan) Global in time weak solutions for compressible barotropic self-gravitating fluids. (English summary) **2005e:35183**
— (*with* Feireisl, Eduard) A regularizing effect of radiation in the equations of fluid dynamics. (English summary) **2005k:35332**
— (*with* Zlotnik, A. A.) Viscous compressible barotropic symmetric flows with free boundary under general mass force. I. Uniform-in-time bounds and stabilization. (English summary) **2005k:35333**
— *see also* **Zlotnik, A. A.**
Dutrifoy, Alexandre (*with* Hmidi, Taoufik) The incompressible limit of solutions of the two-dimensional compressible Euler system with degenerating initial data. (English summary) **2005c:35240**
Evje, Steinar (*with* Flåtten, Tore) Weakly implicit numerical schemes for a two-fluid model. (English summary) **2005k:76133**
Fang, Daoyuan (*with* Zhang, Ting[2]) Compressible Navier-Stokes equations with vacuum state in one dimension. (English summary) **2005j:35166**
— (*with* Zhang, Ting[2]) A note on compressible Navier-Stokes equations with vacuum state in one dimension. (English summary) **2005d:35211**
Feireisl, Eduard On the motion of a viscous, compressible, and heat-conducting fluid. (English summary) **2005h:35280**
— *see also* **Ducomet, Bernard et al., 2005e:35183**; **2005k:35332** *and* **2005m:35223**
Feistauer, Miloslav *see* **Dolejší, Vít, 2005b:76085**
Feldman, Mikhail *see* **Chen, Gui Qiang, 2005c:35238** *and* **2005i:35295**
Feng, Dongmei *see* **Li, Yachun et al., 2005k:35267**
Flåtten, Tore *see* **Evje, Steinar, 2005k:76133**
Flekkøy, E. G. *see* **Wagner, Gerhard, 2005c:82086**
Flori, Fabien (*with* Giudicelli, Bernard) Bornes sur la densité pour un problème de Navier-Stokes compressible à frontière variable avec conditions aux limites de Dirichlet. (English and French summaries) [Bounds on the density for a compressible Navier-Stokes problem on a time dependent domain with Dirichlet boundary conditions] **2005g:35232**
Frid, Hermano ★ Compacidade compensada aplicada às leis de conservação. (Portuguese) [Compensated compactness applied to conservation laws]
(Friedlander, Susan J.) *see* **Handbook: Mathematical fluid dynamics, Vol. III, 2005f:76002**
(Galdi, Giovanni P.) *see* **Contributions to current challenges in mathematical fluid mechanics, 2005c:35003**
Galusinski, Cédric (*with* Saad, Mazen) On a degenerate parabolic system for compressible, immiscible, two-phase flows in porous media. (English summary) **2005h:35192**
Giudicelli, Bernard *see* **Flori, Fabien, 2005g:35232**
Godin, Paul Ondes centrées et discontinuités de contact globales pour les équations d'Euler axisymétriques de certains gaz parfaits isentropiques en dimension 2 d'espace. [Global centered waves and contact discontinuities for the axisymmetric Euler equations of certain isentropic perfect gases in two space dimensions] **2005b:35228**
— A class of global weak solutions to the axisymmetric isentropic Euler equations of perfect gases in two space dimensions.
Godunov, Sergeĭ Konstantinovich (*with* Romenskii, Evgenii I.) ★ Elements of continuum mechanics and conservation laws. **2005e:74004**
Guillopé, Colette (*with* Talhouk, Raafat) Steady flows of slightly compressible viscoelastic fluids of Jeffreys' type around an obstacle. (English summary) **2005i:76007**
Hernández Rincón, Juan Carlos Study of the weak solution of the Cauchy problem for isentropic gas dynamics. (Spanish. Spanish summary) **2005b:35183**
(Heywood, John G.) *see* **Contributions to current challenges in mathematical fluid mechanics, 2005c:35003**
Hmidi, Taoufik *see* **Dutrifoy, Alexandre, 2005c:35240**
Hoff, David (*with* Jenssen, Helge Kristian) Symmetric nonbarotropic flows with large data and forces. (English summary) **2005k:35318**
— *see also* **Chen, Gui Qiang et al., 2005a:76164** *and* **Tsyganov, Eugene, 2005e:35172**
Huang, Feimin (*with* Matsumura, Akitaka; Shi, Xiaoding) Viscous shock wave to a gas-solid free boundary problem for compressible gas. (English summary) **2005m:35317**
— Weak solution to pressureless type system. (English summary) **2005k:35263**
— *see also* **Ding, Yi[1], 2005i:35172**
Jenssen, Helge Kristian *see* **Hoff, David, 2005k:35318**
Jiang, Song *see* **Xiao, Ling, 2005j:35181**
Jin, Bum Ja (*with* Padula, Mariarosaria) Steady flows of compressible fluids in a rigid container with upper free boundary. (English summary) **2005e:35188**
Jüngel, Ansgar (*with* Wang, Shu) Convergence of nonlinear Schrödinger-Poisson systems to the compressible Euler equations. (English summary) **2005g:35244**
Kacprzyk, Piotr Almost global solutions of the free boundary problem for the equations of a magnetohydrodynamic incompressible fluid. (English summary) **2005h:76088**
Kellogg, R. Bruce *see* **Kweon, Jae Ryong, 2005k:35319**
Kim, Hyunseok *see* **Choe, Hi Jun, 2005h:35267**
Kong, De Xing *see* **Liu, Fa Gui**
Kweon, Jae Ryong A singular expansion of solution for a regularized compressible Stokes system. (English summary) **2005a:35226**
— An evolution compressible Stokes system in a polygon. (English summary) **2005c:35242**
— (*with* Kellogg, R. Bruce) Regularity of solutions to the Navier-Stokes system for compressible flows on a polygon. (English summary) **2005k:35319**
— A regularity result of solution to the compressible Stokes equations on a convex polygon. (English summary) **2005c:35243**
LeFloch, Philippe G. (*with* Trivisa, Konstantina) Continuous Glimm-type functionals and spreading of rarefaction waves. (English summary) **2005i:35174**
— (*with* Shelukhin, Vladimir) Symmetries and global solvability of the isothermal gas dynamics equations. (English summary) **2005m:35179**
Leonavičienė, T. (*with* Pileckas, K.) Asymptotic behavior at infinity of exterior three-dimensional steady compressible flow. (English summary) **2005f:35258**
Li, Tian-Hong *see* **Chen, Gui Qiang, 2005f:35255**
Li, Yachun (*with* Feng, Dongmei; Wang, Zejun) Global entropy solutions to the relativistic Euler equations for a class of large initial data. (English summary) **2005k:35267**
— *see also* **Chen, Gui Qiang, 2005h:35277**
Liu, Fa Gui (*with* Kong, De Xing) Global existence and blow-up phenomena of classical solutions for the system of compressible adiabatic flow through porous media. (Chinese. English and Chinese summaries)
Liu, Yanhong (*with* Zhu, Changjiang) Stationary solutions to Euler equations with spherical symmetry. (English summary) **2005j:35177**
Lombardo, Maria Carmela (*with* Cannone, Marco; Sammartino, Marco) Well-posedness of the boundary layer equations. (English summary) **2005a:76137**
Luo, Tao[2] (*with* Smoller, Joel) Rotating fluids with self-gravitation in bounded domains. (English summary) **2005g:85002**
Mascia, Corrado (*with* Zumbrun, Kevin) Stability of small-amplitude shock profiles of symmetric hyperbolic-parabolic systems. (English summary) **2005e:35022**
Matsumura, Akitaka *see* **Huang, Feimin et al., 2005m:35317**
Morando, Alessandro (*with* Secchi, Paolo) On 3D slightly compressible Euler equations. (English summary) **2005g:35246**
Mucha, Piotr Bogusław (*with* Zajączkowski, Wojciech M.) Global existence of solutions of the Dirichlet problem for the compressible Navier-Stokes equations. (English summary) **2005d:35203**
Nakamura, Tohru (*with* Nishibata, Shinya; Yanagi, Shigenori) Large-time behavior of spherically symmetric solutions to an isentropic model of compressible viscous fluid in a field of potential forces. (English summary) **2005m:35240**
Nishibata, Shinya *see* **Nakamura, Tohru et al., 2005m:35240**
Nishihara, Kenji (*with* Yang, Tong; Zhao, Hui-Jiang) Nonlinear stability of strong rarefaction waves for compressible Navier-Stokes equations. (English summary) **2005h:35232**
Novotný, Antonín (*with* Straškraba, Ivan) ★ Introduction to the mathematical theory of compressible flow. **2005i:35220**
Otway, Thomas H. Maps and fields with compressible density. (English summary) **2005k:35339**
Padula, Mariarosaria *see* **Jin, Bum Ja, 2005e:35188**
Parzani, Céline *see* **Degond, Pierre et al., 2005h:82107**
Penel, Patrick (*with* Straškraba, Ivan) Global behavior of one-dimensional compressible flows with vanishing viscosity near vacuums. (English summary) **2005k:35340**
Peng, Yue-Jun (*with* Wang, Ya-Guang) Quasineutral limit and boundary layers in Euler-Poisson system. (English summary) **2005f:76118**
Perthame, Benoît ★ Kinetic formulation of conservation laws. **2005d:35005**
— Kinetic formulations of parabolic and hyperbolic PDEs: from theory to numerics. **2005h:35032**
Petzeltová, Hana *see* **Ducomet, Bernard et al., 2005e:35183**
Pileckas, K. *see* **Leonavičienė, T., 2005f:35258**
Plotnikov, P. I. (*with* Sokołowski, Jan) Stationary boundary value problems for Navier-Stokes equations with adiabatic exponent $\gamma < 3/2$. (Russian)
Qin, Yu-ming Universal attractor in H^4 for the nonlinear one-dimensional compressible Navier-Stokes equations. (English summary) (*see* **2005c:35004**)
— (*with* Wang, Xiu-qin; Cui, Guo-zhong) Remarks on maximal attractors for the compressible Navier-Stokes equations of viscous and heat conductive fluid. (English summary) **2005m:35228**
— Universal attractor in H^4 for the nonlinear one-dimensional compressible Navier-Stokes equations. (English summary) **2005h:35274**
(Rannacher, Rolf) *see* **Contributions to current challenges in mathematical fluid mechanics, 2005c:35003**
Rein, Gerhard Non-linear stability of gaseous stars. (English summary) **2005d:35214**
Romenskii, Evgenii I. *see* **Godunov, Sergeĭ Konstantinovich, 2005e:74004**
Rozanova, Olga S. Classes of smooth solutions to multidimensional balance laws of gas dynamic type on Riemannian manifolds. (English summary) **2005h:35233**
(Rozhkovskaya, Tamara) *see* **Godunov, Sergeĭ Konstantinovich, 2005e:74004**
Ruan, Li Zhi (*with* Zhu, Changjiang) Existence of global smooth solution to the relativistic Euler equations. (English summary) **2005i:35268**

Saad, Mazen *see* **Galusinski, Cédric, 2005h:35192**
Sammartino, Marco *see* **Lombardo, Maria Carmela et al., 2005a:76137**
Secchi, Paolo *see* **Morando, Alessandro, 2005g:35246** *and* **Coulombel, Jean-François, 2005j:35226**
(Serre, Denis) *see* **Handbook: Mathematical fluid dynamics, Vol. III, 2005f:76002**
Shao, Zhi Qiang Initial boundary value problems for semilinear wave equations with discontinuous data. (English summary) **2005e:35167**
Shelukhin, Vladimir *see* **LeFloch, Philippe G., 2005m:35179**
Shi, Xiaoding *see* **Huang, Feimin et al., 2005m:35317**
Shibata, Yoshihiro On some stability theorem of the steady flow of compressible viscous fluid with respect to the initial disturbance. **2005b:35232**
— (*with* Tanaka, Koumei) On a resolvent problem for the linearized system from the dynamical system describing the compressible viscous fluid motion. (English summary) **2005d:35215**
Shivamoggi, Bhimsen K. Erratum and addendum to: "Multifractal scaling at the Kolmogorov microscale in fully developed compressible turbulence" [Ann. Physics **243** (1995), no. 1, 177–191; MR1354221 (96i:76071)]. **Simon, Walter** Criteria for (in)finite extent of static perfect fluids. (English summary) **2005a:83052**
Smoller, Joel *see* **Luo, Tao[2], 2005g:85002**
Sokołowski, Jan *see* **Plotnikov, P. I.**
Straškraba, Ivan *see* **Ducomet, Bernard et al., 2005e:35183**; **Novotný, Antonín, 2005i:35220** *and* **Penel, Patrick, 2005k:35340**
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Trivisa, Konstantina *see* **Chen, Gui Qiang et al., 2005a:76164** *and* **LeFloch, Philippe G., 2005i:35174**
Tsuge, Naoki Spherically symmetric flow of the compressible Euler equations—for the case including the origin. (English summary) **2005d:35217**
— Global L^∞ solutions of the compressible Euler equations with damping and spherical symmetry. (English summary) **2005e:35191**
Tsyganov, Eugene (*with* Hoff, David) Systems of partial differential equations of mixed hyperbolic-parabolic type. (English summary) **2005e:35172**
Vignal, Marie-Hélène *see* **Degond, Pierre et al., 2005h:82107**
Vodák, Rostislav Behaviour of weak solutions of compressible Navier-Stokes equations for isothermal fluids with a nonlinear stress tensor. (English summary) **2005f:35252**
Wagner, Gerhard (*with* Flekkøy, E. G.) Hybrid computations with flux exchange. (English summary) **2005c:82086**
Wang, Dehua[1] *see* **Chen, Gui Qiang, 2005b:35227**
Wang, Shu *see* **Jüngel, Ansgar, 2005g:35244**
Wang, Xiu-qin *see* **Qin, Yu-ming et al., 2005m:35228**
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Wang, Zejun *see* **Chen, Shuxing et al., 2005a:35189** *and* **Li, Yachun et al., 2005k:35267**
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Xiang, Jianlin *see* **Deng, Yinbin et al., 2005c:35239**
Xiao, Ling (*with* Jiang, Song) Nonlinear hyperbolic-parabolic coupled systems. **2005j:35181**
Xu, Chao-Jiang (*with* Yang, Tong) Local existence with physical vacuum boundary condition to Euler equations with damping. (English summary) **2005m:35182**
Xu, Kun Discontinuous Galerkin BGK method for viscous flow equations: one-dimensional systems. (English summary) **2005i:65148**
Yanagi, Shigenori *see* **Nakamura, Tohru et al., 2005m:35240**
Yang, Han Chun (*with* Zhang, Tong[1]) On two-dimensional gas expansion for pressure-gradient equations of Euler system. (English summary) **2005g:35211**
Yang, Tong *see* **Deng, Yinbin et al., 2005c:35239**; **Nishihara, Kenji et al., 2005h:35232** *and* **Xu, Chao-Jiang, 2005m:35182**
Yin, Huicheng Formation and construction of a shock wave for 3-D compressible Euler equations with the spherical initial data. (English summary) **2005f:35203**
Zadrzyńska, E. (*with* Zajączkowski, Wojciech M.) Differential inequalities for general fluid motions bounded by a free surface. (English summary) **2005f:35260**
Zajączkowski, Wojciech M. *see* **Mucha, Piotr Bogusław, 2005d:35203** *and* **Zadrzyńska, E., 2005f:35260**
Zhang, Ting[2] *see* **Fang, Daoyuan, 2005d:35211** *and* **2005j:35166**
Zhang, Tong[1] *see* **Yang, Han Chun, 2005g:35211**
Zhang, Xin Li Blow-up of classical solutions of compressible Euler equations in the three-dimensional space. (Chinese. English and Chinese summaries)
Zhang, Yongqian *see* **Chen, Shuxing et al., 2005a:35189**
Zhao, Hui-Jiang *see* **Nishihara, Kenji et al., 2005h:35232**
Zhu, Changjiang *see* **Ruan, Li Zhi, 2005i:35268** *and* **Liu, Yanhong, 2005j:35177**
Zhu, Xu-sheng The global solution of initial-boundary value problem for Euler equations with damping. (English and Chinese summaries)
Ziani, Abdelhamid *see* **Amirat, Youcef, 2005e:35186** *and* **2005k:35177**
Zlotnik, A. A. (*with* Ducomet, Bernard) Global behavior of symmetric flows of a viscous compressible barotropic fluid with a free boundary for a general mass force. (Russian)
— Weak solutions of the equations of motion of a viscous compressible reacting binary mixture: uniqueness and Lipschitz-continuous dependence on data. (Russian) **2005a:35229**
— *see also* **Ducomet, Bernard, 2005k:35333**
Zumbrun, Kevin *see* **Mascia, Corrado, 2005e:35022**

Items listed otherwise than by author

Contributions to current challenges in mathematical fluid mechanics ★ Contributions to current challenges in mathematical fluid mechanics. **2005c:35003**
Handbook:
Mathematical fluid dynamics, Vol. III ★ Handbook of mathematical fluid dynamics. Vol. III. **2005f:76002**

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Afendikov, A. L. (*with* Levkovich-Maslyuk, L. I.) Localization of singularities of gas-dynamic fields by using complex orthogonal wavelet expansions. (English summary)
Allwright, D. J. (*with* Kaouri, K.) Circulation in inviscid gas flows with shocks. (English summary) **2005b:76111**
Bartsch, Peter (*with* Borzì, Alfio) On the modeling and simulation of boundary flow through partially open pipe ends. (English summary) **2005f:76084**
Bongiovanni, Emmanuel (*with* Ern, Alexandre; Glinsky-Olivier, Nathalie) Evaluation of an energy relaxation method for the simulation of unsteady, viscous, real gas flows. (English summary) **2005a:76135**
Borzì, Alfio *see* **Bartsch, Peter, 2005f:76084**
Boudlal, A. (*with* Lyapidevskiĭ, V. Yu.) Roll waves in a non-regular inclined channel. (English summary) **2005f:76085**
Castelletti, L. *see* **Quartapelle, L. et al., 2005a:76136**
Chen, Gui Qiang (*with* Liu, Hailiang) Concentration and cavitation in the vanishing pressure limit of solutions to the Euler equations for nonisentropic fluids. (English summary) **2005i:76093**
Chen, Qian-Yong (*with* Gottlieb, David; Hesthaven, Jan S.) Uncertainty analysis for the steady-state flows in a dual throat nozzle. (English summary) **2005j:76075**
Chetverushkin, B. N. (*with* Churbanova, N. G.) A quasi-gas-dynamic system of equations and Navier-Stokes equations. (Russian)
Churbanova, N. G. *see* **Chetverushkin, B. N.**
Dinu, Liviu Florin An example of interaction between two gasdynamic objects: a shock discontinuity and a model of turbulence. (English summary)
Dolgoleva, G. V. (*with* Khairullina, O. B.; Zabrodin, A. V.) Computational construction of the microtargets on the basis of realization of shockless compression conception. (English summary)
Dorodnitsyn, L. V. On the stability of small oscillations in a quasi-gas-dynamic system of equations. (Russian. Russian summary) **2005m:76150**
Dubois, François Partial Riemann problem, boundary conditions, and gas dynamics. **2005e:76071**
Ern, Alexandre *see* **Bongiovanni, Emmanuel et al., 2005a:76135**
Gasser, Ingenuin One-dimensional modelling of tunnel fires. (English summary) **2005g:76103**
Glinsky-Olivier, Nathalie *see* **Bongiovanni, Emmanuel et al., 2005a:76135**
Golovin, S. V. Irrotational barochronous gas motions. (English summary) **2005b:76112**
Gottlieb, David *see* **Chen, Qian-Yong et al., 2005j:76075**
Guardone, A. *see* **Quartapelle, L. et al., 2005a:76136**
Hesthaven, Jan S. *see* **Chen, Qian-Yong et al., 2005j:76075**
Howe, M. S. On the role of separation in compression wave generation by a train entering a tunnel hood with a window. (English summary) **2005m:76151**
Kaouri, K. *see* **Allwright, D. J., 2005b:76111**
Khairullina, O. B. On computation of the initial stage of the shock-free compression of symmetric gas prisms. (English summary) **2005g:76104**
— *see also* **Dolgoleva, G. V. et al.**
Kukushkin, V. A. Analytical and numerical investigation of a class of axisymmetric processes of strong shockless compression of an ideal gas. (English summary) **2005e:76072**
Levkovich-Maslyuk, L. I. *see* **Afendikov, A. L.**
Liu, Hailiang *see* **Chen, Gui Qiang, 2005i:76093**
Lyapidevskiĭ, V. Yu. *see* **Boudlal, A., 2005f:76085**
Mamontov, Evgeniĭ Vladimirovich Strong discontinuities in 2-submodels of class E of gas dynamic equations. (Russian. Russian summary) **2005k:76111**
Okada, Mari Free boundary problem for one-dimensional motions of compressible gas and vacuum. (English summary) **2005d:76035**
Ovsyannikov, L. V. On the motions of a gas with a "one-dimensional" potential. (Russian) **2005k:76112**
Perigaud, Guillaume (*with* Saurel, Richard) A compressible flow model with capillary effects. (English summary) **2005k:76113**
Quaranta, G. *see* **Quartapelle, L. et al., 2005a:76136**
Quartapelle, L. (*with* Castelletti, L.; Guardone, A.; Quaranta, G.) Solution of the Riemann problem of classical gasdynamics. (English summary) **2005a:76136**
Rogers, Colin (*with* Schief, Wolfgang Karl) Hidden integrability in subsonic gasdynamics Reciprocal vortex street generation. (English summary) **2005f:76086**
Saurel, Richard *see* **Perigaud, Guillaume, 2005k:76113**
Schief, Wolfgang Karl *see* **Rogers, Colin, 2005f:76086**
Sharma, V. D. *see* **Srinivasan, Gopala Krishna, 2005h:76070**
Srinivasan, Gopala Krishna (*with* Sharma, V. D.) Implosion-time for converging cylindrical and spherical shells. (English summary) **2005h:76070**
Zabrodin, A. V. *see* **Dolgoleva, G. V. et al.**

Items with secondary classifications in 76N15

Akulenko, L. D. (*with* Nesterov, Sergeĭ V.) Analytical study of quasilinear self-oscillations in the Helmholtz resonator. (Russian. Russian summary) **2005e:76073**
Alaev, R. D. *see* **Blokhin, A. M., 2005c:65069**
Alekseev, A. K. (*with* Navon, Ionel Michael) A posteriori pointwise error estimation for compressible fluid flows using adjoint parameters and Lagrange remainder. (English summary) **2005g:76083**
Ali, Giuseppe Low Mach number flows in time-dependent domains. (English summary) **2005f:35195**
Aliabadi, Shahrouz *see* **Tu, Shuangzhang, 2005h:76058**
Andreyanov, Boris P. On limits of solutions of the Riemann problem for a system of isentropic gas dynamics with viscosity in Euler coordinates. (Russian. Russian summary) **2005c:35188**
Arnau, F. J. *see* **Jerez, S. et al., 2005k:65175**
Arnau, J. M. (*with* Company, R.; Roselló, M. D.; Climent, H.) A collocation method to compute one-dimensional flow models in intake and exhaust systems of internal combustion engines. (English summary) **2005k:65207**
Asakura, Fumioki Wave-front tracking for the equations of isentropic gas dynamics. (English summary) **2005k:35256**

Azarenok, Boris N. (*with* Tang, Tao) Second-order Godunov-type scheme for reactive flow calculations on moving meshes. (English summary) **2005k:76086**
Bagewadi, C. S. (*with* Gireesha, B. J.) A study of two dimensional steady dusty fluid flow under varying pressure gradient. (English summary) **2005b:76131**
Banda, Mapundi Kondwani (*with* Seaïd, Mohammed; Klar, Axel; Pareschi, Lorenzo) Compressible and incompressible limits for hyperbolic systems with relaxation. (English summary) **2005g:35239**
— Variants of relaxed schemes and two-dimensional gas dynamics. (English summary) **2005m:65162**
Barbera, E. (*with* Müller, Ingo; Reitebuch, D.; Zhao, N.-R.) Determination of boundary conditions in extended thermodynamics via fluctuation theory. (English summary) **2005e:82093**
Baudin, Michaël (*with* Coquel, Frédéric; Tran, Quang Huy) A time semi-implicit relaxation scheme for two-phase flows in pipelines. (English summary) **2005k:65164**
— (*with* Berthon, Christophe; Coquel, Frédéric; Masson, Roland; Tran, Quang Huy) A relaxation method for two-phase flow models with hydrodynamic closure law. (English summary) **2005h:76079**
Ben-Artzi, Matania (*with* Falcovitz, Joseph) ★ Generalized Riemann problems in computational fluid dynamics. **2005i:35177**
Berestycki, Henri (*with* Kagan, Leonid; Kamin, Shoshana; Sivashinsky, Gregory) Metastable behavior of premixed gas flames in rectangular channels. (English summary) **2005m:80006**
Berthon, Christophe Inégalités d'entropie pour un schéma de relaxation. (English and French summaries) [Entropy inequalities for a relaxation scheme]
— *see also* **Baudin, Michaël et al., 2005h:76079**
Bisi, M. (*with* Spiga, Giampiero) Hydrodynamic limit for a gas with chemical reactions. (English summary) (*see* **2005c:00016**)
Blokhin, A. M. (*with* Alaev, R. D.) The stability of numerical boundary treatments for finite-difference schemes for hyperbolic systems. (English summary) **2005c:65069**
— On stability of shock waves in a compressible viscous gas. (English summary) **2005f:35237**
Bogomolov, Sergeĭ Vladimirovich On the justification of the nonsmoothing particle method. (Russian. English and Russian summaries) **2005i:76083**
Bouchut, François Entropy satisfying flux vector splittings and kinetic BGK models. (English summary) **2005e:65129**
Brini, Francesca (*with* Ruggeri, Tommaso) The Riemann problem for a binary non-reacting mixture of Euler fluids. (English summary) (*see* **2005c:00016**)
Brunelli, J. C. (*with* Das, Ashok) On an integrable hierarchy derived from the isentropic gas dynamics. (English summary) **2005a:37116**
Caglioti, Emanuele (*with* Chernov, Nikolai I.; Lebowitz, Joel L.) Stability of solutions of hydrodynamic equations describing the scaling limit of a massive piston in an ideal gas. (English summary) **2005h:82094**
Canales, Javier *see* **Hauke, Guillermo et al., 2005h:76054**
Chen, Shuxing Stability of transonic shock fronts in two-dimensional Euler systems. (English summary) **2005h:35278**
Chernov, Nikolai I. *see* **Caglioti, Emanuele et al., 2005h:82094**
Cheverry, Christophe (*with* Guès, Olivier; Métivier, Guy) Large-amplitude high-frequency waves for quasilinear hyperbolic systems. **2005h:35223**
Čiegis, Raimondas *see* **Krylovas, Aleksandras, (2005a:00022)**
Cipu, Elena Corina A shock wave propagation into a transonic flow of a compressible fluid. (English summary) **2005e:76059**
Clarisse, Jean-Marie (*with* Jaouen, Stéphane; Raviart, Pierre-Arnaud) A Godunov-type method in Lagrangian coordinates for computing linearly-perturbed planar-symmetric flows of gas dynamics. (English summary) **2005a:76109**
Clavin, Paul Theory of gaseous detonations. (English summary) **2005f:80009**
Climent, H. *see* **Arnau, J. M. et al., 2005k:65207**
Coclici, Cristian A. (*with* Heiermann, Jörg; Moroşanu, Gheorghe; Wendland, Wolfgang L.) On some mathematical modelling of self-field MPD thrusters. (English summary) **2005d:76044**
Colonius, Tim Modeling artificial boundary conditions for compressible flow. (English summary) **2005a:76119**
Colonna, P. (*with* Rebay, S.) Numerical simulation of dense gas flows on unstructured grids with an implicit high resolution upwind Euler solver. (English summary) **2005f:76075**
Company, R. *see* **Arnau, J. M. et al., 2005k:65207**
Conforto, Fiammetta (*with* Jannelli, A.; Monaco, Roberto; Ruggeri, Tommaso) On the Riemann problem for a reacting mixture of gases. (English summary) (*see* **2005c:00016**)
Coquel, Frédéric *see* **Baudin, Michaël et al., 2005h:76079** *and* **2005k:65164**
Crouseilles, Nicolas (*with* Degond, Pierre; Lemou, Mohammed) A hybrid kinetic/fluid model for solving the gas dynamics Boltzmann-BGK equation. (English summary) **2005i:76084**
Das, Ashok *see* **Brunelli, J. C., 2005a:37116**
Degond, Pierre *see* **Crouseilles, Nicolas et al., 2005i:76084**
Dermoune, Azzouz (*with* Filali, Siham) Estimates of the transition density of a gas system. (English summary) **2005k:60250**
Desvillettes, Laurent (*with* Monaco, Roberto; Salvarani, F.) A kinetic model allowing to obtain the energy law of polytropic gases in the presence of chemical reactions. (English summary) **2005k:80011**
Dindoruk, Birol *see* **Johansen, Thormod et al., 2005m:76171** *and* **Wang, Yun et al., 2005m:76172**
Dipankar, Anurag *see* **Sengupta, T. K. et al., 2005g:76088**
Diskin, Boris (*with* Thomas, James L.) New factorizable discretizations for the Euler equations. (English summary) **2005a:76121**
Doronin, Gleb G. On the solvability of the Cauchy problem for the dusty gas equations. (English and Portuguese summaries)
— (*with* Lar'kin, Nikolai A.) Mathematical problems for a dusty gas flow. (English summary)
Dubroca, Bruno *see* **Seaïd, Mohammed et al.**
Ecer, A. *see* **Hsu, A. T. et al., (2005b:76005)**
Falcovitz, Joseph *see* **Ben-Artzi, Matania, 2005i:35177**
Feireisl, Eduard ★ Dynamics of viscous compressible fluids. **2005i:76092**
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Frid, Hermano ★ Compacidade compensada aplicada às leis de conservação. (Portuguese) [Compensated compactness applied to conservation laws]
— (*with* Perepelitsa, Mikhail) Spatially periodic solutions in relativistic isentropic gas dynamics. (English summary) **2005i:35178**
Fu, Song *see* **Li, Qibing et al., 2005m:76142**
Galkin, V. A. Background of computations for mathematical models, based on conservation laws systems and applications to fluid dynamics. (English summary) (*see* **2005b:76005**)
Ganerwal, G. *see* **Sengupta, T. K. et al., 2005g:76088**
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Gasser, Ingenuin On the mathematics of tunnel fires. (English summary) **2005a:80005**
Giles, Michael B. *see* **Pierce, Niles A., 2005e:65076**
Gileva, V. V. (*with* Zlotnik, A. A.) On a variable-weight difference scheme for equations of the one-dimensional motion of a viscous compressible barotropic fluid. (Russian. Russian summary) **2005i:65119**
Gireesha, B. J. *see* **Bagewadi, C. S., 2005b:76131**
Gizzatkulov, N. M. A difference scheme for two-dimensional nonstationary equations of gas dynamics in a three-temperature approximation. (Russian. English and Russian summaries)
Gottlieb, David (*with* Temam, Roger) Spatial discretization of the dusty gas equations. (English summary) **2005a:76157**
Graur, I. A. Splitting difference schemes, constructed on the basis of quasi-gas-dynamic equations, for the solution of Euler equations. (Russian. Russian summary) **2005a:76111**
Gruber, Christian (*with* Pache, Séverine; Lesne, Annick) On the second law of thermodynamics and the piston problem. (English summary) **2005h:80001**
Guès, Olivier *see* **Cheverry, Christophe et al., 2005h:35223**
Hagstrom, Thomas A new construction of perfectly matched layers for hyperbolic systems with applications to the linearized Euler equations. (*see* **2005b:00020**)
Hauke, Guillermo (*with* Landaberea, Aitor; Garmendia, Iñaki; Canales, Javier) A segregated method for compressible flow computation. I. Isothermal compressible flows. (English summary) **2005h:76054**
Heiermann, Jörg *see* **Coclici, Cristian A. et al., 2005d:76044**
Hsu, A. T. (*with* Yang, Tao; Lopez, Isaac; Ecer, A.) A review of lattice Boltzmann models for compressible flows. (*see* **2005b:76005**)
Jacobsen, Jon A Liouville-Gelfand equation for k-Hessian operators. (English summary) **2005f:35104**
Jannelli, A. *see* **Conforto, Fiammetta et al., (2005c:00016)**
Jaouen, Stéphane *see* **Clarisse, Jean-Marie et al., 2005a:76109**
Jerez, S. (*with* Romero, J. V.; Roselló, M. D.; Arnau, F. J.) A semi-implicit space-time CE-SE method to improve mass conservation through tapered ducts in internal combustion engines. (English summary) **2005k:65175**
Johansen, Thormod (*with* Wang, Yun; Orr, Franklin M., Jr.; Dindoruk, Birol) Four-component gas/oil displacements in one dimension. I. Global triangular structure. (English summary) **2005m:76171**
— *see also* **Wang, Yun et al., 2005m:76172**
Kagan, Leonid *see* **Berestycki, Henri et al., 2005m:80006**
Kamin, Shoshana *see* **Berestycki, Henri et al., 2005m:80006**
Kaptsov, O. V. (*with* Zabluda, A. V.) Characteristic invariants and Darboux's method. (English summary) **2005k:35007**
Karni, Smadar (*with* Kirr, Eduard; Kurganov, Alexander; Petrova, Guergana) Compressible two-phase flows by central and upwind schemes. (English summary) **2005g:65124**
— *see also* **Keen, Benjamin, 2005k:76105**
Karniadakis, George Em *see* **Lin, Guan et al., 2005f:76080**
Kataoka, Takeshi[2] (*with* Tsutahara, Michihisa) Lattice Boltzmann method for the compressible Euler equations. (English summary) **2005e:76066**
Kawashima, Shuichi (*with* Tanaka, Yoshihito[2]) Stability of rarefaction waves for a model system of a radiating gas. **2005k:35264**
Keats, W. A. (*with* Lien, F.-S.) Two-dimensional anisotropic Cartesian mesh adaptation for the compressible Euler equations. (English summary)
Keen, Benjamin (*with* Karni, Smadar) A second order kinetic scheme for gas dynamics on arbitrary grids. (English summary) **2005k:76105**
Kim, Ju Hong Small amplitude theory of Richtmyer-Meshkov instability in cylindrical and spherical geometries. (English summary) **2005c:76053**
Kirr, Eduard *see* **Karni, Smadar et al., 2005g:65124**
Klar, Axel *see* **Banda, Mapundi Kondwani et al., 2005g:35239** *and* **Seaïd, Mohammed et al.**
Kröger, Tim (*with* Noelle, Sebastian; Zimmermann, Susanne) On the connection between some Riemann-solver free approaches to the approximation of multi-dimensional systems of hyperbolic conservation laws. (English summary) **2005m:35178**
Krylovas, Aleksandras (*with* Čiegis, Raimondas) Examples of asymptotical analysis of hyperbolic equations. (*see* **2005a:00022**)
Kunik, Matthias (*with* Qamar, Shamsul; Warnecke, Gerald G.) Kinetic schemes for the relativistic gas dynamics. (English summary) **2005c:76072**
Kurganov, Alexander *see* **Karni, Smadar et al., 2005g:65124**
Kuzmin, Dmitri (*with* Möller, Matthias; Turek, Stefan) High-resolution FEM-FCT schemes for multidimensional conservation laws. (English summary) **2005f:76067**
Landaberea, Aitor *see* **Hauke, Guillermo et al., 2005h:76054**
Lar'kin, Nikolai A. *see* **Doronin, Gleb G.**
Lebowitz, Joel L. *see* **Caglioti, Emanuele et al., 2005h:82094**
LeFloch, Philippe G. (*with* Shelukhin, Vladimir) Symmetries and global solvability of the isothermal gas dynamics equations. (English summary) **2005m:35179**
— *see also* **Shelukhin, Vladimir**
Le Métayer, O. (*with* Massoni, J.; Saurel, Richard) Modelling evaporation fronts with reactive Riemann solvers. (English summary) **2005m:76136**
Lemou, Mohammed *see* **Crouseilles, Nicolas et al., 2005i:76084**
Lesne, Annick *see* **Gruber, Christian et al., 2005h:80001**
Li, Qibing (*with* Fu, Song; Xu, Kun) A compressible Navier-Stokes flow solver with scalar transport. (English summary) **2005m:76142**
Li, Yachun Global stability of solutions with discontinuous initial data containing vacuum states for the isentropic Euler equations. (English summary) **2005g:35208**

Lien, F.-S. *see* **Keats, W. A.**
Lin, Guan (*with* Su, Chau Hsing; Karniadakis, George Em) The stochastic piston problem. (English summary) **2005f:76080**
Liu, Tai-Ping (*with* Yang, Tong; Yu, Shih-Hsien) Entropy pairs for conservation laws and H-theorem for the Boltzmann equation. (English summary) **2005b:35185**
Lopez, Isaac *see* **Hsu, A. T. et al.**, (**2005b:76005**)
Masson, Roland *see* **Baudin, Michaël et al.**, **2005h:76079**
Massoni, J. *see* **Le Métayer, O. et al.**, **2005m:76136**
Meijering, A. *see* **Schröder, Wolfgang²**
Meleshko, S. V. General solution of DP-conditions for simple wave type solutions of the one-dimensional gas dynamics equations. (English summary)
Métivier, Guy *see* **Cheverry, Christophe et al.**, **2005h:35223**
Möller, Matthias *see* **Kuzmin, Dmitri et al.**, **2005f:76067**
Monaco, Roberto (*with* Pandolfi Bianchi, M.; Pieraccini, Sandra; Puppo, Gabriella) Numerical simulations of a reacting gas mixture at the hydrodynamic scale. (English summary) (*see* **2005c:00016**)
— *see also* **Desvillettes, Laurent et al.**, **2005k:80011** *and* **Conforto, Fiammetta et al.**, (**2005c:00016**)
Mongiovì, M. S. (*with* Peruzza, R. A.) Entropy flux far from equilibrium in solids and in non viscous gases. (English and Italian summaries) **2005c:74003**
Moroşanu, Gheorghe *see* **Coclici, Cristian A. et al.**, **2005d:76044**
Müller, Ingo *see* **Barbera, E. et al.**, **2005e:82093**
Muralidharan, Srevatsan (*with* Sujith, R. I.) Shock formation in the presence of entropy gradients in fluids exhibiting mixed nonlinearity. (English summary) **2005f:76062**
Murata, Souichi (*with* Nozaki, Kazuhiro) Renormalization group symmetry method and gas dynamics. (English summary) **2005a:76130**
— New class of symmetries and exact solution to the unsteady equations of adiabatic gas dynamics. (English summary)
Nakamura, Tohru (*with* Nishibata, Shinya; Yanagi, Shigenori) Large-time behavior of spherically symmetric solutions to an isentropic model of compressible viscous fluid in a field of potential forces. (English summary) **2005m:35240**
Navon, Ionel Michael *see* **Alekseev, A. K.**, **2005g:76083**
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Nishibata, Shinya *see* **Nakamura, Tohru et al.**, **2005m:35240**
Nishihara, Kenji (*with* Yang, Tong; Zhao, Hui-Jiang) Nonlinear stability of strong rarefaction waves for compressible Navier-Stokes equations. (English summary) **2005h:35232**
Noelle, Sebastian *see* **Kröger, Tim et al.**, **2005m:35178**
Nozaki, Kazuhiro *see* **Murata, Souichi**, **2005a:76130**
Ohwada, Taku (*with* Xu, Kun) The kinetic scheme for the full-Burnett equations. (English summary) **2005g:82116**
Oliveri, Francesco *see* **Speciale, Maria Paola**, (**2005c:00016**)
Orr, Franklin M., Jr. *see* **Johansen, Thormod et al.**, **2005m:76171** *and* **Wang, Yun et al.**, **2005m:76172**
Pache, Séverine *see* **Gruber, Christian et al.**, **2005h:80001**
Pandolfi Bianchi, M. (*with* Soares, A. J.) Kinetic approach to transport properties of a reacting gas. (English summary) (*see* **2005c:00016**)
— *see also* **Monaco, Roberto et al.**, (**2005c:00016**)
Pareschi, Lorenzo *see* **Banda, Mapundi Kondwani et al.**, **2005g:35239**
Perepelitsa, Mikhail *see* **Frid, Hermano**, **2005i:35178**
Perthame, Benoît ★ Kinetic formulation of conservation laws. **2005d:35005**
— Kinetic formulations of parabolic and hyperbolic PDEs: from theory to numerics. **2005h:35032**
Peruzza, R. A. *see* **Mongiovì, M. S.**, **2005c:74003**
Petrova, Guergana *see* **Karni, Smadar et al.**, **2005g:65124**
Pieraccini, Sandra *see* **Monaco, Roberto et al.**, (**2005c:00016**)
Pierce, Niles A. (*with* Giles, Michael B.) Adjoint and defect error bounding and correction for functional estimates. (English summary) **2005e:65076**
Pirozzoli, Sergio Dynamics of ring vortices impinging on planar shock waves. (English summary) **2005a:76097**
Pokhozhaev, Stanislav Ivanovich On a priori estimates and gradient catastrophes of smooth solutions of hyperbolic systems of conservation laws. (Russian. Russian summary) **2005d:35167**
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Qamar, Shamsul (*with* Warnecke, Gerald G.) Simulation of multicomponent flows using high order central schemes. (English summary) **2005a:76113**
— *see also* **Kunik, Matthias et al.**, **2005c:76072**
Rashid, Abdur (*with* Yuan, Li²) Convergence analysis of pseudospectral method with restraint operator for fluid flow with low Mach number. (English summary) **2005e:65156**
Rasulov, Mahir The finite differences scheme for the first order system of nonlinear differential equations in a class of discontinuous functions. (English summary) **2005b:76096**
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Rebay, S. *see* **Colonna, P.**, **2005f:76075**
Reitebuch, D. *see* **Barbera, E. et al.**, **2005e:82093**
Rogers, Colin (*with* Schief, Wolfgang Karl) Vortex trains in super-Alfvénic magnetogas-dynamics. Application of reciprocal-Bäcklund transformations. (English summary) **2005h:76090**
Romero, J. V. *see* **Jerez, S. et al.**, **2005k:65175**
Roselló, M. D. *see* **Jerez, S. et al.**, **2005k:65175** *and* **Arnau, J. M. et al.**, **2005k:65207**
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Schief, Wolfgang Karl *see* **Rogers, Colin**, **2005h:76090**
Schröder, Wolfgang² (*with* Meijering, A.) Transonic flow over an adaptive wing section.
Seaïd, Mohammed (*with* Klar, Axel; Dubroca, Bruno) Flux limiters in the coupling of radiation and hydrodynamic models. (English summary)
— *see also* **Banda, Mapundi Kondwani et al.**, **2005g:35239**
Segeth, Karel *see* **Šolín, Pavel**, **2005f:76083**
Sengupta, T. K. (*with* Ganerwal, G.; Dipankar, Anurag) High accuracy compact schemes and Gibbs' phenomenon. (English summary) **2005g:76088**
Shaidurov, V. V. (*with* Shchepanovskaya, G. I.) Solution to viscous heat-conductive gas equations based on multiprocessor computer system. (*see* **2005i:65006**)
Shchepanovskaya, G. I. *see* **Shaidurov, V. V.**, (**2005i:65006**)
Sheĭpak, I. A. *see* **Vladimirov, A. A.**, **2005k:47093**
Shelukhin, Vladimir (*with* LeFloch, Philippe G.) Symmetries and global solvability of the Cauchy problem for equations of the gas dynamics of isothermal flows. (Russian)
— *see also* **LeFloch, Philippe G.**, **2005m:35179**
Sheng, Wan Cheng *see* **Yang, Liu**, **2005m:76112**
Siewert, C. E. (*with* Valougeorgis, D.) The McCormack model: channel flow of a binary gas mixture driven by temperature, pressure and density gradients. (English summary) **2005m:76156**
Sivashinsky, Gregory *see* **Berestycki, Henri et al.**, **2005m:80006**
Soares, A. J. *see* **Pandolfi Bianchi, M.**, (**2005c:00016**)
Šolín, Pavel (*with* Segeth, Karel) Non-uniqueness of almost unidirectional inviscid compressible flow. (English summary) **2005f:76083**
Song, Chang-ho (*with* Wu, Sheng-chang) Numerical model of the gas flow through packed beds of the industrial furnaces. (English and Chinese summaries)
Speciale, Maria Paola (*with* Oliveri, Francesco) Linear stability of some exact solutions to ideal magneto-gas-dynamics equations. (English summary) (*see* **2005c:00016**)
Spiga, Giampiero *see* **Bisi, M.**, (**2005c:00016**)
Su, Chau Hsing *see* **Lin, Guan et al.**, **2005f:76080**
Sujith, R. I. *see* **Muralidharan, Srevatsan**, **2005f:76062**
Tanaka, Yoshihito² *see* **Kawashima, Shuichi**, **2005k:35264**
Tang, Hua-zhong (*with* Warnecke, Gerald G.) A Runge-Kutta discontinuous Galerkin method for the Euler equations. (English summary) **2005h:76066**
Tang, Tao *see* **Azarenok, Boris N.**, **2005k:76086**
Temam, Roger *see* **Gottlieb, David**, **2005a:76157**
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Tsutahara, Michihisa *see* **Kataoka, Takeshi²**, **2005e:76066**
Tu, Shuangzhang (*with* Aliabadi, Shahrouz) A slope limiting procedure in discontinuous Galerkin finite element method for gasdynamics applications. (English summary) **2005h:76058**
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Valougeorgis, D. *see* **Siewert, C. E.**, **2005m:76156**
Vladimirov, A. A. (*with* Sheĭpak, I. A.) Spectral properties of an operator matrix. (Russian. Russian summary) **2005k:47093**
Wagner, Siegfried Flow-structure interactions on helicopter rotors in forward flight. (English summary)
Wang, Yun (*with* Dindoruk, Birol; Johansen, Thormod; Orr, Franklin M., Jr.) Four-component gas/oil displacements in one dimension. II. Analytical solutions for constant equilibrium ratios. (English summary) **2005m:76172**
— *see also* **Johansen, Thormod et al.**, **2005m:76171**
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Yanagi, Shigenori *see* **Nakamura, Tohru et al.**, **2005m:35240**
Yang, Han Chun (*with* Zhang, Tong¹) On two-dimensional gas expansion for pressure-gradient equations of Euler system. (English summary) **2005g:35211**
Yang, Liu (*with* Sheng, Wan Cheng) Interaction of shock waves of pressure difference for the equations in gas dynamics. (Chinese. English and Chinese summaries) **2005m:76112**
Yang, Tao *see* **Hsu, A. T. et al.**, (**2005b:76005**)
Yang, Tong (*with* Zhao, Hui-Jiang) BV estimates on Lax-Friedrichs' scheme for a model of radiating gas. (English summary) **2005e:65124**
— *see also* **Liu, Tai-Ping et al.**, **2005b:35185** *and* **Nishihara, Kenji et al.**, **2005h:35232**
Young, Robin The p-system. II. The vacuum. (English summary) **2005c:35196**
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Zhao, N.-R. *see* **Barbera, E. et al.**, **2005e:82093**
Zhukov, K. A. (*with* Popov, Aleksandr Vladimirovich) An efficient difference scheme for the unsteady motion of a viscous weakly compressible gas. (Russian. Russian summary) (*see* **2005b:00029**)
Zimmermann, Susanne *see* **Kröger, Tim et al.**, **2005m:35178**
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Lipatov, I. I. (*with* Teshukov, V. V.) Nonlinear disturbances and weak discontinuities in a supersonic boundary layer. (Russian. Russian summary) **2005c:76074**
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Bruno, Alexander D. (*with* Shadrina, T. V.) An axisymmetric boundary layer on a needle. (Russian) **2005g:76105**
Cannone, Marco *see* **Lombardo, Maria Carmela et al.**, **2005a:76137**
Dubinskii, S. V. (*with* Lipatov, I. I.) On disturbance propagation in internal-flow boundary layers. (Russian. Russian summary) **2005g:76106**
Khusnutdinova, N. V. Theoretical analysis of a model of a thermal boundary layer with drag. (Russian. Russian summary) **2005m:76152**

Lipatov, I. I. (*with* Teshukov, V. V.) Nonlinear disturbances and weak discontinuities in a supersonic boundary layer. (Russian. Russian summary) **2005c:76074**
— *see also* **Dubinskii, S. V., 2005g:76106**
Lombardo, Maria Carmela (*with* Cannone, Marco; Sammartino, Marco) Well-posedness of the boundary layer equations. (English summary) **2005a:76137**
Sammartino, Marco *see* **Lombardo, Maria Carmela et al., 2005a:76137**
Shadrina, T. V. *see* **Bruno, Alexander D., 2005g:76105**
Teshukov, V. V. *see* **Lipatov, I. I., 2005c:76074**
Türkyılmazoğlu, M. (*with* Uygun, N.) Basic compressible flow over a rotating disk. (English summary)
— (*with* Uygun, N.) Compressible modes of the rotating-disk boundary-layer flow leading to absolute instability. (English summary) **2005m:76153**
Uygun, N. *see* **Türkyılmazoğlu, M., 2005m:76153**

Items with secondary classifications in 76N20

Bogolepov, V. V. (*with* Neiland, V. Ya.) Regime diagram of the development of long-wave near-wall disturbances in a hypersonic boundary layer. (English summary)
Chokani, Ndaona Nonlinear evolution of Mack modes in a hypersonic boundary layer. (English summary)
Nazarov, Sergei A. (*with* Specovius-Neugebauer, Maria) Optimal results for the Brezzi-Pitkäranta approximation of viscous flow problems. (English summary) **2005i:35212**
Neiland, V. Ya. *see* **Bogolepov, V. V.**
Savenkov, I. V. Transformation of acoustic disturbances into Tollmien-Schlichting waves in a boundary layer at transonic velocities of the external flow. (Russian. Russian summary) **2005k:76070**
Specovius-Neugebauer, Maria *see* **Nazarov, Sergei A., 2005i:35212**
Türkyılmazoğlu, M. Lower branch modes of the compressible boundary layer flow due to a rotating-disk. (English summary) **2005h:76033**

76N25 Flow control and optimization

Borisov, V. M. (*with* Ivankov, A. A.; Kurilenko, Yu. V.; Mikhaĭlov, I. E.) ★К разработке математических моделей и численных методов решения пространственных оптимизационных задач. (Russian) [On the development of mathematical models and numerical methods for solving three-dimensional optimization problems] **2005k:76114**
Brezillon, J. *see* **Hazra, Subhendu Bikash et al., 2005j:76076**
Dervieux, Alain *see* **Vázquez-Cendón, María Elena et al., 2005c:76075**
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Ivankov, A. A. *see* **Borisov, V. M. et al., 2005k:76114**
Koobus, B. *see* **Vázquez-Cendón, María Elena et al., 2005c:76075**
Kurilenko, Yu. V. *see* **Borisov, V. M. et al., 2005k:76114**
Lions, Jacques Louis Sur le contrôle des équations de Navier-Stokes. (French summary) [Control of Navier-Stokes equations] **2005d:76036**
Lončarić, Josip (*with* Tsynkov, S. V.) Optimization in the context of active control of sound. (English summary) (*see* **2005g:65009**)
Mikhaĭlov, I. E. *see* **Borisov, V. M. et al., 2005k:76114**
Mohammadi, Bijan (*with* Pironneau, Olivier) Shape optimization in fluid mechanics. (English summary) **2005a:76138**
Peigin, S. (*with* Epstein, Boris) Constrained optimization of aerodynamic shapes via minimization of total drag. (English summary) **2005j:76077**
Pironneau, Olivier *see* **Mohammadi, Bijan, 2005a:76138**
Schulz, Volker *see* **Hazra, Subhendu Bikash et al., 2005j:76076**
Tsynkov, S. V. *see* **Lončarić, Josip, (2005g:65009)**
Vázquez-Cendón, María Elena (*with* Dervieux, Alain; Koobus, B.) Multilevel optimization of a supersonic aircraft. (English summary) **2005c:76075**

Items with secondary classifications in 76N25

Arens, K. (*with* Rentrop, P.; Stoll, S. O.; Wever, U.) An adjoint approach to optimal design of turbine blades. (English summary)
Bermúdez de Castro, Alfredo (*with* Gamallo, Pablo; Rodríguez, Rodolfo) Finite element methods in local active control of sound. (English summary) **2005f:49005**
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Destuynder, Philippe (*with* Vétillard, Jocelyne) A noise control problem arising in a flow duct. (English summary) **2005j:74014**
Farahi, M. H. (*with* Borzabadi, A. H.; Mehne, H. H.; Kamyad, Ali V.) Measure theoretical approach for optimal shape design of a nozzle. (English summary)
Gamallo, Pablo *see* **Bermúdez de Castro, Alfredo et al., 2005f:49005**
Kamyad, Ali V. *see* **Farahi, M. H. et al.**
Lončarić, Josip (*with* Tsynkov, S. V.) Optimization of power in the problems of active control of sound. (English summary) **2005c:76078**
— (*with* Tsynkov, S. V.) Quadratic optimization in the problems of active control of sound. (English summary) **2005h:93065**
Mak, K. L. *see* **Yiu, K. F. C. et al., 2005k:49114**
Marsden, Alison L. (*with* Wang, Meng[1]; Dennis, John E., Jr.; Moin, Parviz) Optimal aeroacoustic shape design using the surrogate management framework. (English summary)
Mehne, H. H. *see* **Farahi, M. H. et al.**
Meijering, A. *see* **Schröder, Wolfgang[2]**
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Rodríguez, Rodolfo *see* **Bermúdez de Castro, Alfredo et al., 2005f:49005**
Schröder, Wolfgang[2] (*with* Meijering, A.) Transonic flow over an adaptive wing section.
Stoll, S. O. *see* **Arens, K. et al.**
Teo, Kok Lay *see* **Yiu, K. F. C. et al., 2005k:49114**
Tsynkov, S. V. *see* **Lončarić, Josip, 2005c:76078** *and* **2005h:93065**
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Wever, U. *see* **Arens, K. et al.**
Yiu, K. F. C. (*with* Mak, K. L.; Teo, Kok Lay) Airfoil design via optimal control theory. (English summary) **2005k:49114**

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Ali, Sultan Studies on diabatics flow fields. (English summary)
Ashgriz, Nasser *see* **Barbat, Tiberiu, 2005d:76037**
Barbat, Tiberiu (*with* Ashgriz, Nasser) Planar dynamics of two interacting bubbles in an acoustic field. (English summary) **2005d:76037**
Beyer, K. (*with* Günther, Matthias) Dynamical stability of compressible drops and stars. (English summary) **2005k:76115**
Brenner, Howard Navier-Stokes revisited. (English summary) **2005j:76078**
Debusschere, Bert J. *see* **Le Maître, Olivier P. et al., 2005i:76094**
Finn, Robert S. Capillarity problems for compressible fluids. (English and Georgian summaries) **2005k:76116**
Gavrilenko, V. V. Vertical asymmetric impact of a parabolic cylinder against the surface of compressible fluid. (English summary) **2005m:76154**
Ghanem, Roger G. *see* **Le Maître, Olivier P. et al., 2005i:76094**
Günther, Matthias *see* **Beyer, K., 2005k:76115**
Hassanov, Hikmat G. Hydraulic impact of compressible viscous liquid. (English summary)
Homentcovschi, Dorel (*with* Ion, Stelian) A paradox in the motion of a viscous fluid having a boundary discontinuity point for the velocity. (English summary) **2005a:76139**
Ion, Stelian *see* **Homentcovschi, Dorel, 2005a:76139**
Kassoy, D. R. *see* **Staab, P. L. et al., 2005i:76095**
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Knio, Omar M. *see* **Le Maître, Olivier P. et al., 2005i:76094**
Le Maître, Olivier P. (*with* Reagan, M. T.; Debusschere, Bert J.; Najm, Habib N.; Ghanem, Roger G.; Knio, Omar M.) Natural convection in a closed cavity under stochastic non-Boussinesq conditions. (English summary) **2005i:76094**
Liu, TieGang (*with* Khoo, B. C.; Wang, C. W.) The ghost fluid method for compressible gas-water simulation. (English summary) **2005j:76079**
Lobão, Diomar Cesar (*with* Povitsky, Alex) Modeling of plume dynamics and shock wave in laser ablation with application to nano-technology. (English summary) (*see* **2005g:65009**)
Najm, Habib N. *see* **Le Maître, Olivier P. et al., 2005i:76094**
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Reagan, M. T. *see* **Le Maître, Olivier P. et al., 2005i:76094**
Rempe, M. J. *see* **Staab, P. L. et al., 2005i:76095**
Ruggeri, Tommaso Some recent mathematical results in mixtures theory of Euler fluids. (English summary) (*see* **2005c:00016**)
— (*with* Simić, Srboljub S.) Non linear wave propagation in binary mixtures of Euler fluids. (English summary) (*see* **2005c:00016**)
— (*with* Simić, Srboljub S.) Nonlinear wave propagation in binary mixtures of Euler fluids. (English summary) **2005f:76087**
Simić, Srboljub S. *see* **Ruggeri, Tommaso, 2005f:76087** *and* **(2005c:00016)**
Staab, P. L. (*with* Rempe, M. J.; Kassoy, D. R.) Acoustic-rotational internal flow caused by transient sidewall mass addition. (English summary) **2005i:76095**
Wang, C. W. *see* **Liu, TieGang et al., 2005j:76079**

Items with secondary classifications in 76N99

Abbasov, Hummat M. Correctness of a non-linear parabolic problem with unknown moving boundary, describing displacement of two weakly compressible viscous fluids in the porous medium. (English summary)
Abgrall, Rémi (*with* Saurel, Richard) Un modèle numérique pour la simulation d'écoulements multiphasiques compressibles. (French summary) [A numerical method for simulating compressible multiphase flows] **2005m:76129**
Arina, Renzo Numerical simulation of near-critical fluids. (English summary) **2005g:76090**
Arregui, Iñigo (*with* Cendán, J. Jesús; Vázquez Cendón, C.) A duality method for the compressible Reynolds equation. Application to simulation of read/write processes in magnetic storage devices. (English summary)
Basov, I. V. An estimate for the width of the rigid zone of a flow of a compressible Bingham fluid under loss of equilibrium. (Russian) **2005j:76001**
Bechtel, Stephen E. (*with* Rooney, Francis J.; Forest, M. Gregory) Connections between stability, convexity of internal energy, and the second law for compressible Newtonian fluids. (English summary) **2005m:76094**
Bhattacharya, Kaushik *see* **Craciun, Bogdan, 2005e:35110**
Bresch, Didier (*with* Desjardins, Benoît; Gérard-Varet, David) Rotating fluids in a cylinder. (English summary) **2005e:76083**
Caboussat, Alexandre (*with* Picasso, Marco; Rappaz, Jacques) Numerical simulation of free surface incompressible liquid flows surrounded by compressible gas. (English summary) **2005j:76067**
Caglioti, Emanuele (*with* Chernov, Nikolai I.; Lebowitz, Joel L.) Stability of solutions of hydrodynamic equations describing the scaling limit of a massive piston in an ideal gas. (English summary) **2005h:82094**
Cendán, J. Jesús *see* **Arregui, Iñigo et al.**
Chashechkin, Yu. D. (*with* Kistovich, A. V.) Classification of three-dimensional periodic motions in a fluid. (Russian) **2005i:76117**
Chen, Guanrong *see* **Zheng, Zuohuan et al.**
Chen, Jian *see* **Zhang, Shuang[2] et al., 2005h:76047**
Chernov, Nikolai I. *see* **Caglioti, Emanuele et al., 2005h:82094**
Chevalier, G. *see* **Moet, H. et al., 2005m:76063**
Choquet, Catherine Derivation of the double porosity model of a compressible miscible displacement in naturally fractured reservoirs. (English summary) **2005a:76154**
Corli, Andrea (*with* Fan, Haitao) The Riemann problem for a three-phase flow. (English summary) **2005d:35161**
Coulombel, Jean-François (*with* Secchi, Paolo) The stability of compressible vortex sheets in two space dimensions. (English summary) **2005f:35256**

Craciun, Bogdan (*with* Bhattacharya, Kaushik) Effective motion of a curvature-sensitive interface through a heterogeneous medium. (English summary) **2005e:35110**
Desjardins, Benoît *see* **Bresch, Didier et al., 2005e:76083**
Fan, Haitao *see* **Corli, Andrea, 2005d:35161**
Forest, M. Gregory *see* **Bechtel, Stephen E. et al., 2005m:76094**
Gérard-Varet, David *see* **Bresch, Didier et al., 2005e:76083**
Hartmann, Ralf (*with* Houston, Paul) Adaptive discontinuous Galerkin finite element methods with interior penalty for the compressible Navier-Stokes equations. (English summary) (*see* **2005j:65003**)
Horváth, András *see* **Horváth, Zoltán^2, (2005j:65003**)
Horváth, Zoltán^2 (*with* Horváth, András) Numerical simulation of compressible fluids with moving boundaries: an effective method with applications. (English summary) (*see* **2005j:65003**)
Houston, Paul *see* **Hartmann, Ralf, (2005j:65003**)
Jecl, R. *see* **Škerget, L., (2005c:76001**)
Jiang, Song (*with* Ni, Guo Xi^2) A γ-model BGK scheme for compressible multifluids. (English summary) **2005b:76105**
Jiránek, Pavel (*with* Maryška, Jiří; Šembera, Jan) Model of compressible flow and transport in a time-dependent domain. (English summary) (*see* **2005j:65003**)
Kistovich, A. V. *see* **Chashechkin, Yu. D., 2005i:76117**
Kuzmin, Dmitri *see* **Möller, Matthias et al., 2005j:65115**
Laporte, F. *see* **Moet, H. et al., 2005m:76063**
Lattanzio, Corrado (*with* Rubino, Bruno) Asymptotic behavior and strong convergence for hyperbolic systems of conservation laws with damping. (English summary) **2005h:35230**
Lebowitz, Joel L. *see* **Caglioti, Emanuele et al., 2005h:82094**
Li, Yuguo *see* **Zheng, Zuohuan et al.**
Luo, Tao^2 (*with* Yang, Tong) Global structure and asymptotic behavior of weak solutions to flood wave equations. (English summary) **2005i:35175**
Maryška, Jiří *see* **Jiránek, Pavel et al., (2005j:65003**)
Men'shov, Igor (*with* Nakamura, Yoshiaki) Instability of isolated compressible entropy-stratified vortices. (English summary) **2005k:76054**
Mikaelian, Karnig O. Richtmyer-Meshkov instability of arbitrary shapes. (English summary) **2005k:76052**
Moet, H. (*with* Laporte, F.; Chevalier, G.; Poinsot, T.) Wave propagation in vortices and vortex bursting. (English summary) **2005m:76063**
Möller, Matthias (*with* Kuzmin, Dmitri; Turek, Stefan) Implicit flux-corrected transport algorithm for finite element simulation of the compressible Euler equations. **2005j:65115**
Nakamura, Yoshiaki *see* **Men'shov, Igor, 2005k:76054**
Ni, Guo Xi^2 *see* **Jiang, Song, 2005b:76105**
Ogata, Hidenori Charge simulation method for two-dimensional compressible fluid flow. (English summary) **2005j:76054**
Picasso, Marco *see* **Caboussat, Alexandre et al., 2005j:76067**
Poinsot, T. *see* **Moet, H. et al., 2005m:76063**
Qin, Cheng Sen (*with* Wang, Pei^5; Zhang, Feng Guo) Rayleigh-Taylor and Kelvin-Helmholtz instability of a compressible fluid. (Chinese. English and Chinese summaries)
Radwan, Ahmed E. Instability of a compressible annular magnetized fluid. (English summary) **2005i:76055**
Rappaz, Jacques *see* **Caboussat, Alexandre et al., 2005j:76067**
Rooney, Francis J. *see* **Bechtel, Stephen E. et al., 2005m:76094**
Rozanova, Olga S. Note on the typhoon eye trajectory. (English summary) **2005f:86007**
Rubino, Bruno *see* **Lattanzio, Corrado, 2005h:35230**
Saurel, Richard *see* **Abgrall, Rémi, 2005m:76129**
Secchi, Paolo *see* **Coulombel, Jean-François, 2005f:35256**
Šembera, Jan *see* **Jiránek, Pavel et al., (2005j:65003**)
Škerget, L. (*with* Jecl, R.) Compressible fluid dynamics in porous media by the boundary element method. (*see* **2005c:76001**)
Tóth, Bálint (*with* Valkó, Benedek) Perturbation of singular equilibria of hyperbolic two-component systems: a universal hydrodynamic limit. (English summary) **2005k:82069**
Turek, Stefan *see* **Möller, Matthias et al., 2005j:65115**
Valkó, Benedek *see* **Tóth, Bálint, 2005k:82069**
Vázquez Cendón, C. *see* **Arregui, Iñigo et al.**
Vedeneev, V. V. Instability of an unbounded elastic plate in a gas flow. (Russian. Russian summary) **2005g:74060**
Wang, Pei^5 *see* **Qin, Cheng Sen et al.**
Wu, Zi-Niu A note on the flow equations under space-time transformation. (English summary) **2005c:76028**
Xu, Pengcheng *see* **Zheng, Zuohuan et al.**
Yang, Tong *see* **Luo, Tao^2, 2005i:35175**
Ye, Mao Numerical boundary layers of conservation laws with relaxation extension. (English summary) **2005j:65094**
Zabusky, Norman J. *see* **Zhang, Shuang^2 et al., 2005h:76047**
Zhang, Feng Guo *see* **Qin, Cheng Sen et al.**
Zhang, Shuang^2 (*with* Chen, Jian; Zabusky, Norman J.) Turbulent decay and mixing of accelerated inhomogeneous flows via a feature based analysis. (English summary) **2005h:76047**
Zheng, Zuohuan (*with* Xu, Pengcheng; Li, Yuguo; Chen, Guanrong) Nonlinear resonance and quasi-periodic solutions for ventilation flows in a single opening enclosure. (English summary)

76P05 Rarefied gas flows, Boltzmann equation [see also 82B40, 82C40, 82D05]

Adzhiev, S. Z. (*with* Amosov, S. A.; Vedenyapin, V. V.) One-dimensional discrete models of kinetic equations for mixtures. (Russian. Russian summary) **2005a:76140**
Amosov, S. A. *see* **Adzhiev, S. Z. et al., 2005a:76140**
Bellouquid, Abdelghani On the asymptotic analysis of kinetic models towards the compressible Euler and acoustic equations. (English summary) **2005i:76096**
Brey, J. Javier (*with* Ruiz-Montero, M. J.) Validity of the Boltzmann equation to describe low-density granular systems. (English summary)
Care, C. M. *see* **Dupin, M. M. et al., 2005b:76114**
Cercignani, Carlo (*with* Lampis, Maria; Lorenzani, Silvia) Variational approach to gas flows in microchannels. (English summary) **2005b:76113**
— (*with* Lampis, Maria; Lorenzani, Silvia) Plane Poiseuille flow with symmetric and nonsymmetric gas-wall interactions. (English summary) **2005m:76155**
Doi, Toshiyuki *see* **Sone, Yoshio, 2005a:76141**
(Dufty, James W.) *see* **Garzó, Vicente, 2005b:76115**
Dupin, M. M. (*with* Spencer, T. J.; Halliday, Ian; Care, C. M.) A many-component lattice Boltzmann equation simulation for transport of deformable particles. (English summary) **2005b:76114**
Garzó, Vicente (*with* Santos, Andrés) ★ Kinetic theory of gases in shear flows. **2005b:76115**
Gramani Cumin, Liliana M. *see* **Sharipov, F. M. et al.**
Groppi, Maria (*with* Spiga, Giampiero) A Bhatnagar-Gross-Krook-type approach for chemically reacting gas mixtures. (English summary) **2005f:76088**
Halliday, Ian *see* **Dupin, M. M. et al., 2005b:76114**
Kalempa, Denize *see* **Sharipov, F. M. et al.**
Lampis, Maria *see* **Cercignani, Carlo et al., 2005b:76113** *and* **2005m:76155**
Latyshev, Anatoliĭ Vasil'evich (*with* Yushkanov, A. A.) Moment boundary conditions in rarefied gas slip-flow problems. (Russian. Russian summary) **2005b:76116**
Lorenzani, Silvia *see* **Cercignani, Carlo et al., 2005b:76113** *and* **2005m:76155**
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Ruiz-Montero, M. J. *see* **Brey, J. Javier**
Santos, Andrés *see* **Garzó, Vicente, 2005b:76115**
Sharipov, F. M. (*with* Gramani Cumin, Liliana M.; Kalempa, Denize) Plane Couette flow of binary gaseous mixture in the whole range of the Knudsen number. (English summary)
Siewert, C. E. (*with* Valougeorgis, D.) The McCormack model: channel flow of a binary gas mixture driven by temperature, pressure and density gradients. (English summary) **2005m:76156**
— (*with* Valougeorgis, D.) Concise and accurate solutions to half-space binary-gas flow problems defined by the McCormack model and specular-diffuse wall conditions (English summary) **2005b:76117**
Sone, Yoshio (*with* Doi, Toshiyuki) Ghost effect of infinitesimal curvature in the plane Couette flow of a gas in the continuum limit. (English summary) **2005a:76141**
Spencer, T. J. *see* **Dupin, M. M. et al., 2005b:76114**
Spiga, Giampiero *see* **Groppi, Maria, 2005f:76088**
Struchtrup, Henning (*with* Torrilhon, Manuel) Regularization of Grad's 13 moment equations: derivation and linear analysis. (English summary) **2005a:76142**
— Stable transport equations for rarefied gases at high orders in the Knudsen number. (English summary) **2005f:76089**
Torrilhon, Manuel *see* **Struchtrup, Henning, 2005a:76142**
Valougeorgis, D. (*with* Naris, S.) Acceleration schemes of the discrete velocity method: gaseous flows in rectangular microchannels. (English summary) **2005a:76143**
— *see also* **Siewert, C. E., 2005b:76117** *and* **2005m:76156**
Vedenyapin, V. V. *see* **Adzhiev, S. Z. et al., 2005a:76140**
Yushkanov, A. A. *see* **Latyshev, Anatoliĭ Vasil'evich, 2005b:76116**

Items with secondary classifications in 76P05

Akhiev, S. S. (*with* Özer, Teoman) Symmetry groups of the equations with nonlocal structure and an application for the collisionless Boltzmann equation. (English summary)
Alexandre, Radjesvarane (*with* Villani, Cédric) On the Landau approximation in plasma physics. (English and French summaries) **2005f:82126**
Andallah, Laek S. On the generation of a hexagonal collision model for the Boltzmann equation. (English summary) **2005m:82126**
Andréasson, Håkan (*with* Calogero, Simone; Illner, Reinhard) On blowup for gain-term-only classical and relativistic Boltzmann equations. (English summary) **2005h:82093**
Andriyan, S. M. *see* **Khachatryan, A. Kh., 2005m:82130**
Ansumali, Santosh (*with* Karlin, I. V.; Succi, Sauro) Kinetic theory of turbulence modeling: smallness parameter, scaling and microscopic derivation of Smagorinsky model. (English summary) **2005e:76052**
Aoki, Kazuo^2 (*with* Degond, Pierre) Homogenization of a flow in a periodic channel of small section. (English summary) **2005g:76097**
— (*with* Kosuge, Shingo) Finite-difference methods for the Boltzmann equation for binary gas mixtures. (English summary) **2005i:65161**
Aristov, Vladimir Vladimirovich Solution of the Boltzmann equation for small Knudsen numbers. (Russian. Russian summary) **2005f:82095**
Arkeryd, Leif (*with* Nouri, Anne) The stationary nonlinear Boltzmann equation in a Couette setting with multiple, isolated L^q-solutions and hydrodynamic limits. (English summary) **2005m:82127**
Arnold, Anton (*with* Carrillo, José-Antonio; Desvillettes, Laurent; Dolbeault, Jean; Jüngel, Ansgar; Lederman, Claudia; Markowich, Peter A.; Toscani, Giuseppe; Villani, Cédric) Entropies and equilibria of many-particle systems: an essay on recent research. (English summary) **2005a:35123**
Astillero, Antonio *see* **Garzó, Vicente, 2005k:82095**
Auer, Ch. (*with* Schürrer, F.; Koller, W.) A semicontinuous formulation of the Bloch-Boltzmann-Peierls equations. (English summary) **2005g:82049**
Banda, Mapundi Kondwani (*with* Seaïd, Mohammed; Klar, Axel; Pareschi, Lorenzo) Compressible and incompressible limits for hyperbolic systems with relaxation. (English summary) **2005g:35239**
Barbera, E. (*with* Müller, Ingo; Reitebuch, D.; Zhao, N.-R.) Determination of boundary conditions in extended thermodynamics via fluctuation theory. (English summary) **2005e:82093**
Barichello, Liliane Basso *see* **Camargo, Mariza, 2005k:82081**
Baskaran, Aparna *see* **Dufty, James W. et al., 2005e:82095**
Bellouquid, Abdelghani From discrete Boltzmann equation to compressible linearized Euler equations. (English summary) **2005k:82080**
Bisi, M. (*with* Spiga, Giampiero; Toscani, Giuseppe) Grad's equations and hydrodynamics for weakly inelastic granular flows. (English summary) **2005g:76124**

Bobylev, A. V. (*with* Martínez-Gamba, Irene; Panferov, Vladislav A.) Moment inequalities and high-energy tails for Boltzmann equations with inelastic interactions. (English summary) **2005g:82111**

Boghosian, Bruce M. (*with* Love, Peter J.; Yepez, Jeffrey) Entropic lattice Boltzmann model for Burgers's equation. (English summary) **2005d:76030**

— *see also* **Love, Peter J. et al., 2005c:76073**

Bouchut, François (*with* Golse, François; Pulvirenti, Mario) ★ Kinetic equations and asymptotic theory. **2005d:82102**

— Entropy satisfying flux vector splittings and kinetic BGK models. (English summary) **2005e:65129**

Brenner, Howard Navier-Stokes revisited. (English summary) **2005j:76078**

Cabannes, Henri (*with* Gatignol, Renée; Luo, Li-Shi) ★ The discrete Boltzmann equation (theory and applications). **2005c:82076**

Caflisch, Russel E. (*with* Pareschi, Lorenzo) Towards a hybrid Monte Carlo method for rarefied gas dynamics. (English summary) **2005b:82082**

Calogero, Simone *see* **Andréasson, Håkan et al., 2005h:82093**

Camargo, Mariza (*with* Barichello, Liliane Basso) Unified approach for variable collision-frequency models in rarefied gas dynamics. (English summary) **2005k:82081**

Carrillo, José-Antonio *see* **Arnold, Anton et al., 2005a:35123**

Cavazzoni, R. A kinetic approach to studying the asymptotic behaviour of convection-diffusion equations. (English summary) **2005d:35126**

Charrier, Pierre (*with* Dubroca, Bruno; Mieussens, Luc; Turpault, Rodolphe) Discrete-velocity models for numerical simulations in transitional regime for rarefied flows and radiative transfer. (English summary) **2005e:82040**

Chen, Chiun-Chuan (*with* Liu, Tai-Ping; Yang, Tong) Existence of boundary layer solutions to the Boltzmann equation. (English summary) **2005m:35039**

Chew, Y. T. *see* **Niu, X. D. et al., 2005f:82073**

Conforto, Fiammetta (*with* Jannelli, A.; Monaco, Roberto; Ruggeri, Tommaso) On the Riemann problem for a reacting mixture of gases. (English summary) (*see* **2005c:00016**)

Cornille, Henri Half-space large size discrete velocity models. (English summary) **2005d:82103**

— Discrete velocity models and one continuous relation. (English summary) **2005d:82104**

Crouseilles, Nicolas (*with* Degond, Pierre; Lemou, Mohammed) A hybrid kinetic/fluid model for solving the gas dynamics Boltzmann-BGK equation. (English summary) **2005i:76084**

D'Azevedo, E. F. (*with* Messer, B.; Mezzacappa, A.; Liebendörfer, M.) An ADI-like preconditioner for Boltzmann transport. (English summary) **2005j:65029**

Degond, Pierre Macroscopic limits of the Boltzmann equation: a review. (English summary) **2005d:82105**

— (*with* Levermore, C. David; Schmeiser, Christian) A note on the energy-transport limit of the semiconductor Boltzmann equation. (English summary) **2005b:82097**

— *see also* **Aoki, Kazuo[2], 2005g:76097** *and* **Crouseilles, Nicolas et al., 2005i:76084**

Desvillettes, Laurent About the use of the Fourier transform for the Boltzmann equation. (English summary) **2005a:35040**

— (*with* Mouhot, Clément) About L^p estimates for the spatially homogeneous Boltzmann equation. (English and French summaries) **2005m:35035**

— (*with* Monaco, Roberto; Salvarani, F.) A kinetic model allowing to obtain the energy law of polytropic gases in the presence of chemical reactions. (English summary) **2005k:80011**

— *see also* **Arnold, Anton et al., 2005a:35123** *and* **Bouchut, François et al., 2005d:82102**

Doi, Toshiyuki *see* **Sone, Yoshio, 2005a:34075**

Dolbeault, Jean *see* **Arnold, Anton et al., 2005a:35123**

Dorodnitsyn, L. V. On the stability of small oscillations in a quasi-gas-dynamic system of equations. (Russian. Russian summary) **2005m:76150**

Dubroca, Bruno *see* **Charrier, Pierre et al., 2005e:82040**

Dufty, James W. (*with* Baskaran, Aparna; Zogaib, Lorena) Gaussian kinetic model for granular gases. (English summary) **2005e:82095**

Engibaryan, N. B. (*with* Khachatryan, A. Kh.) Problems in the nonlinear theory of the dynamics of a rarefied gas. (Russian. English and Russian summaries) **2005m:82128**

Esposito, Raffaele (*with* Pulvirenti, Mario) From particles to fluids. **2005f:82098**

Eu, Byung Chan Generalized hydrodynamics and irreversible thermodynamics. **2005b:82073**

Falk, Lennart Existence of solutions to the stationary linear Boltzmann equation. (English summary) **2005j:35014**

Fellner, Klemens (*with* Poupaud, Frédéric; Schmeiser, Christian) Existence and convergence to equilibrium of a kinetic model for cometary flows. (English summary) **2005c:82077**

— (*with* Neumann, Lukas; Schmeiser, Christian) Convergence to global equilibrium for spatially inhomogeneous kinetic models of non-micro-reversible processes. (English summary) **2005f:82116**

Filbet, Francis (*with* Pareschi, Lorenzo; Toscani, Giuseppe) Accurate numerical methods for the collisional motion of (heated) granular flows. (English summary) **2005g:82122**

Fu, Song *see* **Li, Qibing et al., 2005m:76142**

Galkin, V. S. (*with* Zharov, V. A.) Exact solutions of the kinetic Boltzmann-Maxwell equation. (Russian. Russian summary) **2005a:82089**

Garcia, R. D. M. (*with* Siewert, C. E.; Williams, M. M. R.) A formulation of the linearized Boltzmann equations for a binary mixture of rigid spheres. (English summary)

Garzó, Vicente (*with* Astillero, Antonio) Transport coefficients for inelastic Maxwell mixtures. (English summary) **2005k:82095**

Gatignol, Renée *see* **Cabannes, Henri et al., 2005c:82076**

Ghomeshi, S. Existence and uniqueness of solutions for the Couette problem. (English summary) **2005m:35036**

Golse, François (*with* Saint-Raymond, Laure) The Navier-Stokes limit of the Boltzmann equation for bounded collision kernels. (English summary) **2005f:76003**

— *see also* **Bouchut, François et al., 2005d:82102**

Grünfeld, C. P. *see* **Marinescu-Mazilu, Dorin, (2005b:00022)**

Ha, Seung-Yeal L^1 stability of multi-dimensional discrete-velocity Boltzmann equations. (English summary) **2005e:82096**

— L^1 stability of the Boltzmann equation for the hard-sphere model. (English summary) **2005k:35045**

Hoffmann, Karl Heinz[2] *see* **Seeger, Steffen**

Illner, Reinhard *see* **Andréasson, Håkan et al., 2005h:82093**

Ivanov, Mikhail Samuilovich (*with* Korotchenko, M. A.; Mikhailov, Gennadii A.; Rogazinskiĭ, S. V.) New Monte Carlo global weight method for the approximate solution of the nonlinear Boltzmann equation. (English summary) **2005f:82121**

Jagodziński, Sławomir (*with* Lachowicz, Mirosław) On two incompressible hydrodynamic limits of the Boltzmann-Enskog equation. I. Formal derivations. (English summary) **2005h:82096**

Jannelli, A. *see* **Conforto, Fiammetta et al., (2005c:00016)**

Jüngel, Ansgar *see* **Arnold, Anton et al., 2005a:35123**

Junk, Michael Maximum entropy moment problems and extended Euler equations. (English summary) **2005c:35193**

Karlin, I. V. *see* **Ansumali, Santosh et al., 2005e:76052**

Khachatryan, A. Kh. (*with* Andriyan, S. M.) On the velocity jump of a rarefied gas in the framework of the linearized BGK model of the Boltzmann equation. (Russian. Russian summary) **2005m:82130**

— *see also* **Engibaryan, N. B., 2005m:82128**

Khisamutdinov, A. I. On some properties of Monte Carlo methods and Markov processes for the inhomogeneous Boltzmann equation. (Russian) **2005m:65007**

Klar, Axel *see* **Banda, Mapundi Kondwani et al., 2005g:35239**

Koller, W. *see* **Auer, Ch. et al., 2005g:82049**

Korotchenko, M. A. *see* **Ivanov, Mikhail Samuilovich et al., 2005f:82121**

Kosuge, Shingo *see* **Aoki, Kazuo[2], 2005i:65161**

Kröger, Tim (*with* Noelle, Sebastian; Zimmermann, Susanne) On the connection between some Riemann-solver free approaches to the approximation of multi-dimensional systems of hyperbolic conservation laws. (English summary) **2005m:35178**

Lachowicz, Mirosław *see* **Jagodziński, Sławomir, 2005h:82096**

Latyshev, Anatoliĭ Vasil'evich (*with* Yushkanov, A. A.) Analytic solution of boundary value problems for an ellipsoidal statistical equation. (Russian. Russian summary) **2005d:82122**

— (*with* Yushkanov, A. A.) A method for solving boundary value problem for kinetic equations. (Russian. Russian summary) **2005f:82100**

Lederman, Claudia *see* **Arnold, Anton et al., 2005a:35123**

Lemou, Mohammed *see* **Crouseilles, Nicolas et al., 2005i:76084**

Levermore, C. David *see* **Degond, Pierre et al., 2005b:82097**

Li, Qibing (*with* Fu, Song; Xu, Kun) A compressible Navier-Stokes flow solver with scalar transport. (English summary) **2005m:76142**

Liebendörfer, M. *see* **D'Azevedo, E. F. et al., 2005j:65029**

Liu, Tai-Ping (*with* Yang, Tong; Yu, Shih-Hsien) Entropy pairs for conservation laws and H-theorem for the Boltzmann equation. (English summary) **2005b:35185**

— (*with* Yu, Shih-Hsien) Boltzmann equation: micro-macro decompositions and positivity of shock profiles. (English summary) **2005f:82101**

— (*with* Yu, Shih-Hsien) The Green's function and large-time behavior of solutions for the one-dimensional Boltzmann equation. (English summary) **2005m:82132**

— *see also* **Chen, Chiun-Chuan et al., 2005m:35039**

Love, Peter J. (*with* Boghosian, Bruce M.; Meyer, David A.) Lattice gas simulations of dynamical geometry in one dimension. (English summary) **2005c:76073**

— *see also* **Boghosian, Bruce M. et al., 2005d:76030**

Luo, Li-Shi *see* **Cabannes, Henri et al., 2005c:82076**

Malafei, D. A. *see* **Mozolevskiĭ, I. E. et al., (2005c:65004)**

Mareschal, M. (*with* McNamara, S.) Lyapunov hydrodynamics in the dilute limit. (English summary) **2005k:82083**

Marinescu-Mazilu, Dorin (*with* Grünfeld, C. P.) Stochastic algorithms solving nonlinear Boltzmann models. (English summary) (*see* **2005b:00022**)

Markowich, Peter A. *see* **Arnold, Anton et al., 2005a:35123**

Martínez-Gamba, Irene (*with* Panferov, Vladislav A.; Villani, Cédric) On the Boltzmann equation for diffusively excited granular media. (English summary) **2005b:82076**

— *see also* **Bobylev, A. V. et al., 2005g:82111**

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Mozolevskiĭ, I. E. (*with* Matus, Petr P.; Malafei, D. A.) The Fokker-Planck approximation of boundary value problems for the straight-ahead Boltzmann transport equation. (English summary) (*see* **2005c:65004**)

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— Kinetic formulations of parabolic and hyperbolic PDEs: from theory to numerics. **2005h:35032**
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Shakhov, E. M. *see* **Titarev, V. A., 2005k:82099**
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Villani, Cédric Limites hydrodynamiques de l'équation de Boltzmann (d'après C. Bardos, F. Golse, C. D. Levermore, P.-L. Lions, N. Masmoudi, L. Saint-Raymond). (French summary) [Hydrodynamic limits of the Boltzmann equation (following C. Bardos, F. Golse, C. D. Levermore, P.-L. Lions, N. Masmoudi, L. Saint-Raymond)] **2005f:82108**
— *see also* **Arnold, Anton et al., 2005a:35123**; **Martínez-Gamba, Irene et al., 2005b:82076** *and* **Alexandre, Radjesvarane, 2005f:82126**
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— (*with* Kirpichnikova, N. Ya.; Vlasyuk, N. G.) A combined method for computing the field of a point source in a waveguide. (A weakly curved layered medium). (Russian. English and Russian summaries) **2005g:76108**

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Sharma, Subodh K. (*with* Saha, Ratan K.) On the validity of some new acoustic scattering approximations. (English summary) **2005c:76080**

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Smirnov, I. P. (*with* Virovlyanskiĭ, A. L.; Zaslavsky, G. M.) Wave chaos and mode-medium resonances at long-range sound propagation in the ocean. (English summary) **2005c:76081**

Smorodskiĭ, B. V. *see* **Gaponov, S. A., 2005k:76121**

Stepanov, A. N. On a parametric model of a point directional radiator. (Russian. English and Russian summaries) **2005j:76082**

— An integral representation of the potential of a parametric model of a point directional radiator. (Russian. English and Russian summaries) **2005j:76083**

Stone, Michael *see* **Perez Bergliaffa, Santiago Esteban et al., 2005a:76146**

Struckmeier, Jens *see* **Foroughi, Mehdi, 2005b:76119**

Sumbatyan, Mezhlum A. *see* **Boyev, N. V.**

Tadeu, A. *see* **Amado Mendes, P. et al., (2005d:65006)**

Tam, Christopher K. W. Computational aeroacoustics: an overview of computational challenges and applications. (English summary) **2005b:76124**

Tezaur, Radek *see* **Djellouli, Rabia et al., (2005b:00020)**

Toivanen, Jari *see* **Heikkola, Erkki et al., (2005b:00020)**

Tsogka, Chrysoula *see* **Borcea, Liliana et al., (2005b:00020)**

Tsynkov, S. V. *see* **Lončarić, Josip, 2005c:76078**

Vandepitte, D. *see* **Pluymers, B. et al.**

Virovlyanskiĭ, A. L. *see* **Smirnov, I. P. et al., 2005c:76081**

Visser, Matt *see* **Perez Bergliaffa, Santiago Esteban et al., 2005a:76146**

Vlasyuk, N. G. *see* **Filippov, V. B. et al., 2005g:76107** *and* **2005g:76108**

Wang, Chih-Kai *see* **Chen, Kuan-Wen et al.**

Wang, Zong-Kang (*with* Djambazov, G. S.; Lai, Choi-Hong; Pericleous, K. A.) An acoustic correction method for extracting sound signals. (English summary) **2005a:76147**

Westerlund, Johan *see* **Müller, Bernhard, (2005b:00020)**

White, P. R. *see* **Leighton, T. G. et al.**

Wilmański, Krzysztof Critical time for acoustic waves in weakly nonlinear poroelastic materials. (English summary) **2005m:76163**

Wirgin, Armand *see* **Buchanan, James L. et al., 2005f:76091**
Xu, Yongzhi S. *see* **Buchanan, James L. et al., 2005f:76091**
Yan, Zai You (*with* Cui, Fang Sen; Hung, Kin Chew) Investigation on the normal derivative equation of Helmholtz integral equation in acoustics. (English summary)
Yano, Takeru *see* **Kurihara, Eru et al.**
Zaitsev, V. Yu. *see* **Aleshin, Vladislav V. et al.**
Zaman, S. I. Numerical application of adapted Kussmaul formulation (AKF) of acoustic scattering problems. (English summary)
Zaslavsky, G. M. *see* **Smirnov, I. P. et al., 2005c:76081**
Zhao, Zhi Gao (*with* Huang, Qi Bai) Calculation of singular integral for the Helmholtz boundary integral equation in acoustics. (Chinese. English and Chinese summaries)

Items with secondary classifications in 76Q05

Abubakar, Aria (*with* Habashy, Tarek M.; van den Berg, Peter M.; Gisolf, Dries) The diagonalized contrast source approach: an inversion method beyond the Born approximation. (English summary) **2005m:65122**
Alonso, Ana Esther (*with* Dello Russo, Anahí; Padra, Claudio; Rodríguez, Rodolfo) Accurate pressure post-process of a finite element method for elastoacoustics. (English summary) **2005j:74013**
Alves, Carlos J. S. (*with* Serranho, P.) On the identification of the flatness of a sound-hard acoustic crack. (English summary) **2005i:35277**
Anar, İbrahim Ethem *see* **Ateş, Ülkü, 2005f:35308**
Antonopoulos, Christos S. *see* **Kantartzis, Nikolaos V. et al.**
Arai, Y. *see* **Tanaka, Masataka et al., (2005d:65006)**
Arens, Tilo (*with* Kirsch, Andreas) The factorization method in inverse scattering from periodic structures. (English summary) **2005a:35275**
— Why linear sampling works. (English summary) **2005b:35036**
Arina, Renzo (*with* Falossi, Marco) Domain decomposition technique for aeroacoustic simulations. (English summary)
Ashgriz, Nasser *see* **Barbat, Tiberiu, 2005d:76037**
Ateş, Ülkü (*with* Anar, İbrahim Ethem) Eigenvalues of the far field operator for time harmonic acoustic waves by an inhomogeneous medium and inverse scattering theory. (English summary) **2005f:35308**
Athanassoulis, Gerassimos A. (*with* Belibassakis, Konstadinos A.) Rapidly-convergent local-mode representations for wave propagation and scattering in curved-boundary waveguides. (English summary) (*see* **2005b:00020**)
Atkins, Harold *see* **Ryan, Jennifer K. et al., 2005m:65222**
Atluri, Satya N. *see* **Qian, Zhongyan et al.**
Avalos, George (*with* Lasiecka, Irena) Exact boundary controllability of a hybrid PDE system arising in structural acoustic modeling. (English summary) **2005e:93009**
Ayapbergenova, A. T. *see* **Kabanikhin, S. I., 2005f:35321**
Bakushinskiĭ, A. B. (*with* Kokurin, M. Yu.; Kozlov, A. I.) On stable iterative methods of gradient type for the inverse medium scattering problem. (English summary) **2005m:65119**
Bal, Guillaume (*with* Ryzhik, Leonid) Time splitting for the Liouville equation in a random medium. (English summary) **2005j:65081**
— (*with* Verástegui, Ramón) Time reversal in changing environments. (English summary) **2005h:35378**
Balabane, Mikhaël Boundary decomposition for Helmholtz and Maxwell equations. I. Disjoint sub-scatterers. (English summary) **2005d:35031**
Barbat, Tiberiu (*with* Ashgriz, Nasser) Planar dynamics of two interacting bubbles in an acoustic field. (English summary) **2005d:76037**
Barrientos, Mauricio A. (*with* Gatica, Gabriel N.; Rodríguez, Rodolfo; Torrejón, Marcela E.) Analysis of a coupled BEM/FEM eigensolver for the hydroelastic vibrations problem. (English summary) **2005m:74040**
Bastos, Maria Amélia (*with* Moura Santos, Ana; dos Santos, A. F.) Wave diffraction by a strip grating: the two-straight line approach. (English summary) **2005e:35221**
Bécache, Eliane (*with* Bonnet-Ben Dhia, Anne-Sophie; Legendre, Guillaume) Perfectly matched layers for the convected Helmholtz equation. (*see* **2005b:00020**)
— (*with* Bonnet-Ben Dhia, Anne-Sophie; Legendre, Guillaume) Perfectly matched layers for the convected Helmholtz equation. (English summary) **2005c:65094**
— (*with* Chaigne, Antoine; Derveaux, Grégoire; Joly, Patrick) Numerical simulation of a guitar. (English summary) **2005i:74036**
Belibassakis, Konstadinos A. *see* **Athanassoulis, Gerassimos A., (2005b:00020)**
van den Berg, Peter M. On the source type of integral equations for scattering by an object in a layered medium. (English summary) **2005m:35053**
— Erratum to: "On the source type of integral equations for scattering by an object in a layered medium" [Wave Motion **41** (2005), no. 3, 194–210; MR2120169 (2005m:35053)].
— *see also* **Abubakar, Aria et al., 2005m:65122**
Bermúdez de Castro, Alfredo (*with* Gamallo, Pablo; Rodríguez, Rodolfo) Finite element methods in local active control of sound. (English summary) **2005f:49005**
— (*with* Ferrín, J. L.; Prieto, Andres) A finite element solution of acoustic propagation in rigid porous media. (English summary) **2005i:76072**
Bernakevich, Ĭ. Ĕ. (*with* Vagīn, P. P.; Shinkarenko, G. A.) A mathematical model of acoustic interaction between a shell and a fluid. II. Projection-difference approximations and their convergence. (Ukrainian. English, Russian and Ukrainian summaries) **2005i:74025**
Berntsen, Svend Inverse acoustic scattering in a half-space. (English summary) **2005h:35354**
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Bogy, David B. *see* **Budaev, Bair V., 2005c:35223**
Bonnet-Ben Dhia, Anne-Sophie (*with* Legendre, Guillaume; Lunéville, Eric) Regularization of the time-harmonic Galbrun's equations. (*see* **2005b:00020**)
— (*with* Mercier, Jean-François) Resonances of an elastic plate in a confined flow. (English summary) (*see* **2005b:00020**)
— *see also* **Bécache, Eliane et al., 2005c:65094** *and* **(2005b:00020)**
Boström, Anders *see* **Krasnova, Tatiana et al., 2005f:74044**
Bouillard, Philippe (*with* Lacroix, Valéry; De Bel, Eric) A meshless approach for 2D vibro-acoustic problems. (*see* **2005f:74002**)
Brannan, James R. (*with* Ervin, Vincent J.; Duan, Jin Qiao; Razoumov, Leonid) A Wiener-Hopf approximation technique for a multiple plate diffraction problem. (English summary) **2005d:35033**
Bruno, Oscar P. (*with* Geuzaine, Christophe A.; Monro, John A., Jr.; Reitich, Fernando) Prescribed error tolerances within fixed computational times for scattering problems of arbitrarily high frequency: the convex case. (English summary)
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Bukhgeim, A. A. *see* **Kazantsev, S. G., 2005f:65174**
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Callsen, S. (*with* von Estorff, O.; Zaleski, O.) Direct and indirect approach of a desingularized boundary element formulation for acoustical problems. (English summary)
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Chandler-Wilde, Simon N. (*with* Langdon, Stephen; Ritter, Lars) A Galerkin boundary element method for a high frequency scattering problem. (*see* **2005b:00020**)
— (*with* Langdon, Stephen; Ritter, Lars) A high-wavenumber boundary-element method for an acoustic scattering problem. (English summary) **2005e:65181**
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Chen, Jeng-Tzong (*with* Lin, Tzong-Wey; Chen, I-Lin; Lee, Yang-Jye) Fictitious frequency for the exterior Helmholtz equation subject to the mixed-type boundary condition using BEMs. (English summary)
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(Cohen, Gary C.) *see* **Mathematical and numerical aspects of wave propagation—WAVES 2003, 2005b:00020**
Colton, David L. Remarks on the inverse scattering problem for acoustic waves. **2005i:35203**
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Delprat-Jannaud, Florence (*with* Pellé, Laure; Lailly, Patrick) An upgrade in linearized modeling of wave propagation. (English summary) (*see* **2005b:00020**)
Dennis, John E., Jr. *see* **Marsden, Alison L. et al.**
Depollier, Claude *see* **Fellah, Zine El Abidine et al., 2005g:74064**
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Dervieux, Alain *see* **Vázquez-Cendón, María Elena et al., 2005c:76075**
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Durand, Marc *see* **Chabi Gado, Bio Soumarou et al., 2005k:35402**
Elfouhaily, Tanos Mikhael (*with* Guérin, Charles-Antoine) A critical survey of approximate scattering wave theories from random rough surfaces. (English summary) **2005d:35190**
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Eu, Byung Chan Generalized hydrodynamics in the transient regime and irreversible thermodynamics. (English summary) **2005c:76014**
Falossi, Marco *see* **Arina, Renzo**
Feijóo, Gonzalo R. (*with* Oberai, Assad A.; Pinsky, Peter M.) An application of shape optimization in the solution of inverse acoustic scattering problems. (English summary) **2005a:49077**
Fellah, Mohamed *see* **Fellah, Zine El Abidine et al., 2005g:74064**
Fellah, Zine El Abidine (*with* Depollier, Claude; Fellah, Mohamed; Lauriks, W.; Chapelon, J.-Y.) Influence of dynamic tortuosity and compressibility on the propagation of transient waves in porous media. (English summary) **2005g:74064**
Ferrín, J. L. *see* **Bermúdez de Castro, Alfredo et al., 2005i:76072**
Fotouhi, Morteza (*with* Hesaaraki, Mahmoud) The singular sources method for an inverse problem with mixed boundary conditions. (English summary)
Fuks, Iosif M. (*with* Godin, Oleg A.) Probability distributions of travel time and intensity of the earliest arrivals of a short pulse backscattered by a rough surface. (English summary) **2005e:86009**
Gaitan, Patricia *see* **Cristofol, Michel, 2005a:35277**
Gal, Ciprian G. (*with* Goldstein, Gisèle Ruiz; Goldstein, Jerome A.) Oscillatory boundary conditions for acoustic wave equations. **2005g:35188**
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Gander, Martin J. (*with* Halpern, Laurence) Absorbing boundary conditions for the wave equation and parallel computing. (English summary) **2005h:65158**

Ganesh, Mahadevan (*with* Graham, I. G.) A high-order algorithm for obstacle scattering in three dimensions. (English summary) **2005d:65217**
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— *see also* **Mar-Or, Assaf**
Godin, Oleg A. (*with* Voronovich, A. G.) Fermat's principle for non-dispersive waves in non-stationary media. (English summary) **2005c:35275**
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Groby, Jean-Philippe (*with* Tsogka, Chrysoula) A time domain method for modeling wave propagation phenomena in viscoacoustic media. (English summary) (*see* **2005b:00020**)
Grudskiĭ, Sergeĭ M. (*with* Mikhalkovich, S. S.; Ramírez de Arellano, E.) The Wiener-Hopf integral equation on a finite interval: asymptotic solution for large intervals with an application to acoustics. (English summary) **2005h:47051**
Guérin, Charles-Antoine *see* **Elfouhaily, Tanos Mikhael, 2005d:35190**
Gustafsson, Bertil (*with* Wahlund, Per) Time compact difference methods for wave propagation in discontinuous media. (English summary) **2005k:65170**
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Haddar, Houssem (*with* Hélie, Thomas; Matignon, Denis) A Webster-Lokshin model for waves with viscothermal losses and impedance boundary conditions: strong solutions. (English summary) (*see* **2005b:00020**)
— *see also* **Cakoni, Fioralba, (2005b:00020)**
Ha-Duong, Tuong (*with* Jaoua, Mohamed; Menif, Faiza) A modified frozen Newton method to identify a cavity by means of boundary measurements. (English summary) (*see* **2005b:00020**)
— (*with* Jaoua, Mohamed; Menif, Faiza) A modified frozen Newton method to identify a cavity by means of boundary measurements. (English summary) **2005e:65175**
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Hariharan, S. I. *see* **Hagstrom, Thomas et al., 2005a:35225**
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Hohage, Thorsten Laplace domain methods for the construction of transparent boundary conditions for time-harmonic problems. (*see* **2005b:00020**)
de Hoop, Maarten V. (*with* Gautesen, A. K.) Uniform asymptotic expansion of the square-root Helmholtz operator and the one-way wave propagator. (English summary) **2005a:35176**
— *see also* **Jonsson, B. Lars G. et al., 2005k:93015**
Hou, Songming (*with* Sølna, Knut; Zhao, Hong-Kai) Imaging of location and geometry for extended targets using the response matrix. (English summary) **2005k:78016**
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Hu, Fang Q. A perfectly matched layer absorbing boundary condition for linearized Euler equations with a non-uniform mean flow. (English summary) **2005k:76095**
Ikehata, Masaru (*with* Makrakis, G. N.; Nakamura, Gen[1]) Inverse boundary value problem for ocean acoustics using point sources. (English summary) **2005f:35319**
Ingel′, L. Kh. Dynamics of acoustic disturbances in intense atmospheric vortices. (Russian. Russian summary) **2005a:86021**
Iványi, P. *see* **Magoulès, Frédéric et al., 2005h:65244**
Jansson, Per-Åke *see* **Krasnova, Tatiana et al., 2005f:74044**
Jaoua, Mohamed *see* **Ha-Duong, Tuong et al., 2005e:65175** *and* **(2005b:00020)**
Joly, Patrick (*with* Lenoir, Marc; Tordeux, Sébastien) Asymptotical models for wave propagation in media including slots. (*see* **2005b:00020**)
— *see also* **Mathematical and numerical aspects of wave propagation—WAVES 2003, 2005b:00020; Bécache, Eliane et al., 2005i:74036** *and* **Diaz, Julien, (2005b:00020)**
Jonsson, B. Lars G. (*with* Gustafsson, Mats; Weston, Vaughan H.; de Hoop, Maarten V.) Retrofocusing of acoustic wave fields by iterated time reversal. (English summary) **2005k:93015**
Kabanikhin, S. I. (*with* Ayapbergenova, A. T.) Estimation of the rate of convergence of the Landweber iteration method in an inverse problem of acoustics. (English summary) **2005f:35321**
Kantartzis, Nikolaos V. (*with* Katsibas, Theodoros K.; Antonopoulos, Christos S.; Tsiboukis, Theodoros D.) A 3D multimodal FDTD algorithm for electromagnetic and acoustic propagation in curved waveguides and bent ducts of varying cross-section. (English summary)
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— (*with* Ratcliffe, K.) Bound states in coupled guides. II. Three dimensions. (English summary) **2005h:81103b**
Lončarić, Josip (*with* Tsynkov, S. V.) Optimization in the context of active control of sound. (English summary) (*see* **2005g:65009**)
— (*with* Tsynkov, S. V.) Quadratic optimization in the problems of active control of sound. (English summary) **2005h:93065**
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Matsumoto, Takashi *see* **Tanaka, Masataka et al., (2005d:65006)**
Meddahi, Salim (*with* Márquez Gentil, Antonio; Selgas, Virginia) Computing acoustic waves in an inhomogeneous medium of the plane by a coupling of spectral and finite elements. (English summary) **2005b:65129**
Mehdizadeh, Omid Z. (*with* Paraschivoiu, Marius) Investigation of a three-dimensional spectral element method for Helmholtz's equation. (English summary) (*see* **2005g:65009**)
Menif, Faiza *see* **Ha-Duong, Tuong et al., 2005e:65175** *and* **(2005b:00020)**
Mercier, Jean-François *see* **Bonnet-Ben Dhia, Anne-Sophie, (2005b:00020)**
Merlen, Alain (*with* Voĭnovich, P. A.; Preobrazhensky, Vladimir; Pernod, Philippe) Finite volume methods for wave phase conjugation in active media. (English summary) (*see* **2005b:00020**)
Michielsen, Bastiaan L. *see* **Levadoux, David P., 2005b:35040**
Mikhalkovich, S. S. *see* **Grudskiĭ, Sergeĭ M. et al., 2005h:47051**
Moin, Parviz *see* **Marsden, Alison L. et al.**
Momoniat, Ebrahim *see* **Wafo Soh, C., 2005b:35248**
Monro, John A., Jr. *see* **Bruno, Oscar P. et al.**
Moura Santos, Ana *see* **Bastos, Maria Amélia et al., 2005e:35221**
Nakamura, Gen[1] (*with* Sini, Mourad) On the near field measurement for the inverse scattering problem for ocean acoustics. (English summary) **2005i:35288**
— *see also* **Ikehata, Masaru et al., 2005f:35319**
(Neittaanmäki, Pekka) *see* **Mathematical and numerical aspects of wave propagation—WAVES 2003, 2005b:00020**
Oberai, Assad A. *see* **Feijóo, Gonzalo R. et al., 2005a:49077**
Ohayon, Roger Reduced models for fluid-structure interaction problems. (English summary) **2005b:74042**
O'Leary, Dianne P. *see* **Elman, Howard C. et al., 2005k:65015**
Padra, Claudio *see* **Alonso, Ana Esther et al., 2005j:74013**
Palamodov, V. P. Fundamental solutions of the acoustic and diffusion equations in nonhomogeneous medium. (English summary) **2005e:35039**
Paraschivoiu, Marius *see* **Mehdizadeh, Omid Z., (2005g:65009)**
Patlashenko, Igor *see* **Givoli, Dan, 2005g:65143**
Paulino, Rivânia H. (*with* Rochinha, Fernando Alves) A higher-order velocity post-processing for the Helmholtz equation. (English summary) **2005h:76056**
Pellé, Laure *see* **Delprat-Jannaud, Florence et al., (2005b:00020)**

Pernod, Philippe *see* **Merlen, Alain et al.**, (2005b:00020)
Perrey-Debain, Emmanuel (*with* Trevelyan, Jon; Bettess, Peter) Plane wave interpolation in direct collocation boundary element method for radiation and wave scattering: numerical aspects and applications. (English summary) **2005c:65111**
Pinsky, Peter M. *see* **Feijóo, Gonzalo R. et al.**, **2005a:49077**
Popa, Mirela O. *see* **Mandel, Jan**, **2005m:65303**
Popov, D. A. (*with* Sushko, D. V.) Image restoration in optical-acoustic tomography. (Russian. Russian summary) **2005h:44002**
Potthast, Roland A set-handling approach for the no-response test and related methods. (English summary) **2005c:35225**
— *see also* **Erhard, Klaus**, **2005k:35426**
Preobrazhensky, Vladimir *see* **Merlen, Alain et al.**, (2005b:00020)
Prieto, Andres *see* **Bermúdez de Castro, Alfredo et al.**, **2005i:76072**
Qian, Zhongyan (*with* Han, Z. D.; Ufimtsev, Petr Ya.; Atluri, Satya N.) Non-hyper-singular boundary integral equations for acoustic problems, implemented by the collocation-based boundary element method. (English summary)
Rabenstein, Rudolf *see* **Trautmann, Lutz**, **2005b:94010**
Rabinovich, Vladimir S. Limiting absorption principle for a class of difference equations. (English summary) **2005g:47063**
Ramdani, Karim *see* **Hazard, Christophe**, **2005e:35175**
Ramírez de Arellano, E. *see* **Grudskiĭ, Sergeĭ M. et al.**, **2005h:47051**
Ramm, Alexander G. Equations for the self-consistent field in random medium. (English summary) **2005a:78015**
Ratcliffe, K. *see* **Linton, C. M.**, **2005h:81103a** *and* **2005h:81103b**
Rawlins, A. D. A note on point source diffraction by a wedge. **2005d:35152**
Razoumov, Leonid *see* **Brannan, James R. et al.**, **2005d:35033**
Régnier, Virginie Delayed reflection in a stratified acoustic strip. (English summary) **2005h:35213**
Reitich, Fernando *see* **Bruno, Oscar P. et al.**
Rempe, M. J. *see* **Staab, P. L. et al.**, **2005i:76095**
Ritter, Lars *see* **Chandler-Wilde, Simon N. et al.**, **2005e:65181** *and* (2005b:00020)
Rochinha, Fernando Alves *see* **Paulino, Rivânia H.**, **2005h:76056**
Rodríguez, Rodolfo *see* **Hernández, Erwin**, **2005c:76063**; **Bermúdez de Castro, Alfredo et al.**, **2005f:49005**; **Alonso, Ana Esther et al.**, **2005j:74013** *and* **Barrientos, Mauricio A. et al.**, **2005m:74040**
Rose, James H. Single-sided focusing and the minimum principle of inverse scattering theory. (English summary) **2005c:35297**
Ryan, Jennifer K. (*with* Shu, Chi-Wang; Atkins, Harold) Extension of a postprocessing technique for the discontinuous Galerkin method for hyperbolic equations with application to an aeroacoustic problem. (English summary) **2005m:65222**
Ryzhik, Leonid *see* **Bal, Guillaume**, **2005j:65081**
dos Santos, A. F. *see* **Bastos, Maria Amélia et al.**, **2005e:35221**
Savenkov, I. V. Transformation of acoustic disturbances into Tollmien-Schlichting waves in a boundary layer at transonic velocities of the external flow. (Russian. Russian summary) **2005k:76070**
Scalia, Antonio *see* **Sumbatyan, Mezhlum A.**, **2005i:74044**
Selgas, Virginia *see* **Meddahi, Salim et al.**, **2005b:65129**
Serbest, A. Hamit *see* **Büyükaksoy, Alinur et al.**, **2005b:35038**
(Seriani, Géza) *see* **Theoretical and computational acoustics '99**
Serranho, P. *see* **Alves, Carlos J. S.**, **2005i:35277**
Sheu, Tony W. H. (*with* Chen, Chi-fang; Hsieh, L. W.) A highly accurate Helmholtz scheme for modeling scattering wave. (English summary)
Shinkarenko, G. A. (*with* Gorlach, V. M.) Raviart-Thomas approximations for variational hydroacoustics problems. (English summary) (*see* **2005b:00020**)
— *see also* **Bernakevich, Ī. Ē. et al.**, **2005i:74025**
Shu, Chi-Wang *see* **Ryan, Jennifer K. et al.**, **2005m:65222**
Shuvalov, A. L. General relationships for guided acoustic waves in anisotropic plates. (English summary)
Simos, T. E. *see* **Tselios, Kostas**
Singer, Ido (*with* Turkel, Eli) A perfectly matched layer for the Helmholtz equation in a semi-infinite strip. (English summary) **2005h:65189**
Sini, Mourad *see* **Nakamura, Gen[1]**, **2005i:35288**
Soares, D., Jr. (*with* Mansur, W. J.) An efficient time-domain BEM/FEM coupling for acoustic-elastodynamic interaction problems. (English summary)
Sølna, Knut *see* **Hou, Songming et al.**, **2005k:78016**
Staab, P. L. (*with* Rempe, M. J.; Kassoy, D. R.) Acoustic-rotational internal flow caused by transient sidewall mass addition. (English summary) **2005i:76095**
Stewart, Michael *see* **Elman, Howard C. et al.**, **2005k:65015**
Stolk, Christiaan C. A pseudodifferential equation with damping for one-way wave propagation in inhomogeneous acoustic media. (English summary) **2005g:35191**
Sumbatyan, Mezhlum A. (*with* Scalia, Antonio) ★ Equations of mathematical diffraction theory. **2005i:74044**
Sushko, D. V. *see* **Popov, D. A.**, **2005h:44002**
Tanaka, Masataka (*with* Matsumoto, Takashi; Arai, Y.) Combined application of BEM and cellular automata to some shape optimization in acoustic fields. (English summary) (*see* **2005d:65006**)
Thompson, David *see* **Hagstrom, Thomas et al.**, **2005a:35225**
Topping, B. H. V. *see* **Magoulès, Frédéric et al.**, **2005h:65244**
Tordeux, Sébastien *see* **Joly, Patrick et al.**, (2005b:00020)
Torrejón, Marcela E. *see* **Barrientos, Mauricio A. et al.**, **2005m:74040**
Trautmann, Lutz (*with* Rabenstein, Rudolf) ★ Digital sound synthesis by physical modeling using the functional transformation method. **2005b:94010**
Trevelyan, Jon *see* **Perrey-Debain, Emmanuel et al.**, **2005c:65111**
Triggiani, Roberto Backward uniqueness of semigroups arising in coupled partial differential equations systems of structural acoustics. (English summary) **2005h:35218**
Tselios, Kostas (*with* Simos, T. E.) Runge-Kutta methods with minimal dispersion and dissipation for problems arising from computational acoustics. (English summary)
Tsiboukis, Theodoros D. *see* **Kantartzis, Nikolaos V. et al.**
Tsogka, Chrysoula *see* **Groby, Jean-Philippe**, (2005b:00020)
Tsynkov, S. V. Lacunae-based artificial boundary conditions for the numerical simulation of unsteady waves governed by vector models. (English summary) (*see* **2005b:00020**)
— *see also* **Lončarić, Josip**, **2005h:93065** *and* (2005g:65009)
Turkel, Eli *see* **Singer, Ido**, **2005h:65189**
Ufimtsev, Petr Ya. *see* **Qian, Zhongyan et al.**
Uhlmann, Gunther The inverse kinematic problem in anisotropic media. (English summary) **2005c:53097**
Vagīn, P. P. *see* **Bernakevich, Ī. Ē. et al.**, **2005i:74025**
(Välimäki, Vesa) *see* **Trautmann, Lutz**, **2005b:94010**
Vázquez-Cendón, María Elena (*with* Dervieux, Alain; Koobus, B.) Multilevel optimization of a supersonic aircraft. (English summary) **2005c:76075**
Verástegui, Ramón *see* **Bal, Guillaume**, **2005h:35378**
Vétillard, Jocelyne *see* **Destuynder, Philippe**, **2005j:74014**
Voĭnovich, P. A. *see* **Merlen, Alain et al.**, (2005b:00020)
Voronovich, A. G. *see* **Godin, Oleg A.**, **2005c:35275**
Wafo Soh, C. (*with* Momoniat, Ebrahim) A Lie group investigation of exact weakly nonlinear quasi-planar sound waves. (English summary) **2005b:35248**
— Symmetry reductions and new exact invariant solutions of the generalized Burgers equation arising in nonlinear acoustics. (English summary) **2005c:35260**
Wagner, Marcus Michael (*with* Gaul, Lothar; Dumont, Ney A.) The hybrid boundary element method in structural acoustics. (English summary) **2005g:76082**
Wahlund, Per *see* **Gustafsson, Bertil**, **2005k:65170**
Wang, Lian Tang (*with* He, Zhi Qiang[2]) Recovering the acoustic wave impedance coefficient from the incomplete data of the far field pattern. (Chinese. English and Chinese summaries) **2005b:65120**
Wang, Meng[1] *see* **Marsden, Alison L. et al.**
Weston, Vaughan H. *see* **Jonsson, B. Lars G. et al.**, **2005k:93015**
Willatzen, Morten *see* **Lew Yan Voon, L. C.**, **2005c:81048**
Yan, Guozheng Inverse scattering by a multilayered obstacle. (English summary)
Yeredor, Arie Multiple delays estimation for chirp signals using structured total least squares. (English summary) **2005e:65055**
Zaleski, O. *see* **Callsen, S. et al.**
Zhao, Hong-Kai Analysis of the response matrix for an extended target. (English summary) **2005a:74050**
— *see also* **Hou, Songming et al.**, **2005k:78016**

Items listed otherwise than by author

Jyväskylä ★ Mathematical and numerical aspects of wave propagation—WAVES 2003. **2005b:00020**
Mathematical and numerical aspects of wave propagation—WAVES 2003 ★ Mathematical and numerical aspects of wave propagation—WAVES 2003. **2005b:00020**
Theoretical and computational acoustics '99 ★ Theoretical and computational acoustics '99.
Trieste ★ Theoretical and computational acoustics '99.

76Rxx Diffusion and convection

76R05 Forced convection

Asensio Sevilla, María Isabel (*with* Ferragut, L.; Simon, Jacques) A convection model for fire spread simulation. (English summary) **2005k:76123**
Ferragut, L. *see* **Asensio Sevilla, María Isabel et al.**, **2005k:76123**
Furati, Khaled M. (*with* Kirane, Mokhtar; Tatar, Nasser-Eddine) Existence and asymptotic behavior for a convection problem. (English summary) **2005m:76164**
Kirane, Mokhtar *see* **Furati, Khaled M. et al.**, **2005m:76164**
Leppinen, D. M. (*with* Rees, D. A. S.) Sidewall heating in shallow cavities near the density maximum. (*see* **2005c:76001**)
Papanicolaou, N. C. Modelling thermoconvective flow in a vertical slot. (English summary) (*see* **2005m:00008**)
Rees, D. A. S. *see* **Leppinen, D. M.**, (2005c:76001)
Simon, Jacques *see* **Asensio Sevilla, María Isabel et al.**, **2005k:76123**
Tatar, Nasser-Eddine *see* **Furati, Khaled M. et al.**, **2005m:76164**
Wei, Qi Bounds on convective heat transport in a rotating porous layer. (English summary) **2005a:76148**
Yan, Xiaodong On limits to convective heat transport at infinite Prandtl number with or without rotation. (English summary) **2005f:76094**

Items with secondary classifications in 76R05

Akhmetov, R. G. Asymptotics of solution for a problem of convective diffusion with volume reaction near a spherical drop. (English summary) **2005h:35079**
Akimenko, V. V. (*with* Cheremnykh, O. K.) Modeling rotational flows on the background of a two-dimensional convective heat and mass transfer process. (Russian. English, Russian and Ukrainian summaries) **2005i:76039**
(Bejan, Adrian) *see* **Emerging technologies and techniques in porous media**, **2005c:76001**
Bertola, V. (*with* Cafaro, E.) Intermediate asymptotic behaviour of fluid flows by scale-size analysis. (English summary) **2005i:76091**
Birnir, Björn (*with* Svanstedt, Nils) Existence theory and strong attractors for the Rayleigh-Bénard problem with a large aspect ratio. (English summary) **2005a:76040**
Braginsky, Stanislav (*with* Roberts, Paul H.) On the theory of convection in the Earth's core. **2005g:86022**
Braverman, L. *see* **Nepomnyashchy, Alexander A. et al.**, **2005i:76048**
Bunge, Hans-Peter *see* **Fournier, Alexandre et al.**, **2005k:76090**
Busse, Friedrich H. On thermal convection in slowly rotating systems. (English summary) **2005e:76041**
— *see also* **Lu, Lu[2] et al.**, **2005a:76096**
Cafaro, E. *see* **Bertola, V.**, **2005i:76091**
Campo, Antonio On the asymptotic solution of the Graetz-Nusselt problem for short $x \to 0$ and large $x \to \infty$ with partial usage of finite differences. (English summary)
Cheremnykh, O. K. *see* **Akimenko, V. V.**, **2005i:76039**

Cox, Stephen M. (*with* Matthews, Paul C.; Pollicott, S. L.) Swift-Hohenberg model for magnetoconvection. (English summary) **2005e:85003**
Denisova, Irina Vlad. On the problem of thermocapillary convection for two incompressible fluids separated by a closed interface. (English summary) **2005m:35222**
Doering, Charles R. *see* **Lu, Lu[2] et al., 2005a:76096**
Efendiev, Messoud A. (*with* Fuhrmann, J.; Zelik, S. V.) The long-time behaviour of the thermoconvective flow in a porous medium. (English summary) **2005h:37194**
Elizarova, T. G. (*with* Zherikov, A. V.; Kalachinskaya, I. S.; Sheretov, Yu. V.) Simulation of convective flow of an electrically conducting fluid in a cavity. (English summary) **2005b:76137**
Ezzat, Magdy A. (*with* Zakaria, M.; Moursy, M.) Magnetohydrodynamic boundary layer flow past a stretching plate and heat transfer. **2005b:76138**
Fournier, Alexandre (*with* Bunge, Hans-Peter; Hollerbach, Rainer; Vilotte, Jean-Pierre) A Fourier-spectral element algorithm for thermal convection in rotating axisymmetric containers. (English summary) **2005k:76090**
Fuhrmann, J. *see* **Efendiev, Messoud A. et al., 2005h:37194**
Gaĭnova, I. A. *see* **Popov, Viktor Nikolaevich et al., (2005i:65006)**
Hollerbach, Rainer *see* **Fournier, Alexandre et al., 2005k:76090**
Ignat, Radu (*with* Millot, Vincent) Vortices in a 2d rotating Bose-Einstein condensate. (English and French summaries) **2005m:82093**
(Ingham, Derek B.) *see* **Emerging technologies and techniques in porous media, 2005c:76001**
Jaiswal, B. S. (*with* Soundalgekar, V. M.) Unsteady free and forced convection MHD flow past an infinite vertical porous plate with variable suction and oscillating plate temperature. (English summary)
Julien, Keith (*with* Knobloch, Edgar; Tobias, Steve) Highly supercritical convection in strong magnetic fields. **2005i:76122**
Kalachinskaya, I. S. *see* **Elizarova, T. G. et al., 2005b:76137**
Kandaswamy, P. *see* **Saravanan, S., 2005a:76085**
Knobloch, Edgar *see* **Julien, Keith et al., 2005i:76122**
Kokh, A. E. *see* **Popov, Viktor Nikolaevich et al., (2005i:65006)**
Lu, Lu[2] (*with* Doering, Charles R.; Busse, Friedrich H.) Bounds on convection driven by internal heating. (English summary) **2005a:76096**
(Mamut, Eden) *see* **Emerging technologies and techniques in porous media, 2005c:76001**
Matthews, Paul C. *see* **Cox, Stephen M. et al., 2005e:85003**
Millot, Vincent *see* **Ignat, Radu, 2005m:82093**
Mironova, L. A. *see* **Popov, Viktor Nikolaevich et al., (2005i:65006)**
Moursy, M. *see* **Ezzat, Magdy A. et al., 2005b:76138**
Nepomnyashchy, Alexander A. (*with* Simanovskii, Ilya B.; Braverman, L.) Convective oscillations in multilayer systems under the combined action of buoyancy and thermocapillary effect. (English summary) **2005i:76048**
Pollicott, S. L. *see* **Cox, Stephen M. et al., 2005e:85003**
(Pop, Ioan[2]) *see* **Emerging technologies and techniques in porous media, 2005c:76001**
Popov, Viktor Nikolaevich (*with* Kokh, A. E.; Mironova, L. A.; Gaĭnova, I. A.) Numerical modeling of convection under the conditions of cyclic heating of side walls of a crucible. (English summary) (*see* **2005i:65006**)
Roberts, Paul H. *see* **Braginsky, Stanislav, 2005g:86022**
Saravanan, S. (*with* Kandaswamy, P.) Hydromagnetic stability of convective flow of variable viscosity fluids generated by internal heat sources. (English summary) **2005a:76085**
Sharma, Divya *see* **Sunil et al.**
Sharma, R. C. *see* **Sunil et al.**
Sheretov, Yu. V. *see* **Elizarova, T. G. et al., 2005b:76137**
Simanovskii, Ilya B. *see* **Nepomnyashchy, Alexander A. et al., 2005i:76048**
Soundalgekar, V. M. *see* **Jaiswal, B. S.**
Storesletten, L. Effects of anisotropy on convection in horizontal and inclined porous layers. (*see* **2005c:76001**)
Straughan, B. Non-Boussinesq convection in porous media. (English summary) (*see* **2005c:00016**)
— Resonant porous penetrative convection. (English summary) **2005e:76081**
Sunil (*with* Sharma, Divya; Sharma, R. C.) The effect of magnetic field dependent viscosity on thermosolutal convection in a ferromagnetic fluid saturating a porous medium. (English summary)
Svanstedt, Nils *see* **Birnir, Björn, 2005a:76040**
Tabata, Masahisa (*with* Tagami, Daisuke) Error estimates of finite element methods for nonstationary thermal convection problems with temperature-dependent coefficients. (English summary) **2005m:65225**
Tagami, Daisuke *see* **Tabata, Masahisa, 2005m:65225**
Thorpe, S. A. Langmuir circulation. (English summary) **2005d:86005**
Tobias, Steve *see* **Julien, Keith et al., 2005i:76122**
Vilotte, Jean-Pierre *see* **Fournier, Alexandre et al., 2005k:76090**
Wang, Xiao Ming[1] Infinite Prandtl number limit of Rayleigh-Bénard convection. (English summary) **2005d:76015**
Xu, Jian Jun[1] Dynamics of dendritic growth interacting with convective flow. (English summary) **2005d:80006**
Zakaria, M. *see* **Ezzat, Magdy A. et al., 2005b:76138**
Zelik, S. V. *see* **Efendiev, Messoud A. et al., 2005h:37194**
Zherikov, A. V. *see* **Elizarova, T. G. et al., 2005b:76137**

Items listed otherwise than by author

Constanta ★ Emerging technologies and techniques in porous media. **2005c:76001**
Emerging technologies and techniques in porous media ★ Emerging technologies and techniques in porous media. **2005c:76001**

76R10 Free convection

Abd-El-Malek, Mina B. (*with* Kassem, Magda M.; Mekky, Mohammad L.) Similarity solutions for unsteady free-convection flow from a continuous moving vertical surface. (English summary) **2005a:76149**
Akyildiz, F. Talay (*with* Bellout, Hamid) Chaos in the thermal convection of a Newtonian fluid with a temperature dependent viscosity. (English summary) **2005h:76075**
Bellout, Hamid *see* **Akyildiz, F. Talay, 2005h:76075**
Chandran, Pallath (*with* Sacheti, Nirmal C.) Unsteady boundary layer flow of a radiating fluid under the influence of an applied magnetic field. (English summary) **2005h:76076**
Curteanu, Anca (*with* Ingham, Derek B.; Elliott, Lionel; Lesnic, Daniel) Laplacian decomposition of steady free convection in porous media. (*see* **2005c:76001**)
Elliott, Lionel *see* **Curteanu, Anca et al., (2005c:76001)**
Ezzat, Magdy A. Free convection flow of conducting micropolar fluid with thermal relaxation including heat sources. (English summary) **2005f:76095**
Gupta, S. P. *see* **Maheshwari, Chhavi et al.**
Ingham, Derek B. *see* **Curteanu, Anca et al., (2005c:76001)**
Jaiswal, B. S. (*with* Soundalgekar, V. M.) Unsteady free and forced convection MHD flow past an infinite vertical porous plate with variable suction and oscillating plate temperature. (English summary)
Jha, Basant Kumar Transient natural convection in a vertical channel in presence of transverse magnetic field: analogy with a porous medium. (English summary)
Kannan, K. *see* **Venkataraman, V., 2005k:76125**
Karim, Mohammed Rezaul On the convection flow past an accelerated vertical permeable plate. (English summary) (*see* **2005i:00016**)
Kassem, Magda M. *see* **Abd-El-Malek, Mina B. et al., 2005a:76149**
Kuo, Bor-Lih Application of the differential transformation method to the solutions of the free convection problem. (English summary) **2005k:76124**
Lesnic, Daniel *see* **Curteanu, Anca et al., (2005c:76001)**
Lyubimov, D. V. (*with* Shklyaev, S. V.) Long-wave convection in a two-layer system. (Russian. Russian summary) **2005i:76099**
Maheshwari, Chhavi (*with* Pathak, Govind; Gupta, S. P.) Viscous heating effects on unsteady free convection flow past an impulsively started infinite vertical plate with heat sink. (English summary)
Mal′kovskiĭ, V. I. (*with* Pèk, A. A.) Conditions for the onset of thermal convection of a single-phase fluid in a vertical open fault. (Russian. Russian summary)
Mekky, Mohammad L. *see* **Abd-El-Malek, Mina B. et al., 2005a:76149**
Nešić, Ljubiša *see* **Raos, Miomir**
Pareek, Durgesh *see* **Sharma, P. R.**
Pathak, Govind *see* **Maheshwari, Chhavi et al.**
Pèk, A. A. *see* **Mal′kovskiĭ, V. I.**
Raos, Miomir (*with* Nešić, Ljubiša) Vector and scalar variables laminar natural convection in 2D geometry arbitrary angle of inclination. (English summary)
Sacheti, Nirmal C. *see* **Chandran, Pallath, 2005h:76076**
Sharma, P. R. (*with* Pareek, Durgesh) Free convection effects on steady flow of non-Newtonian fluid past a porous medium bounded by a vertical porous, infinite surface. (English summary)
Shklyaev, S. V. *see* **Lyubimov, D. V., 2005i:76099**
Soundalgekar, V. M. *see* **Jaiswal, B. S.**
Venkataraman, V. (*with* Kannan, K.) Numerical solution of Stokes problem for free convection effects in dissipative dusty medium. (English summary) **2005k:76125**

Items with secondary classifications in 76R10

Alexiades, V. *see* **Hannoun, N. et al.**
Andreev, V. K. (*with* Bekezhanova, V. B.) Stability of steady flow in a vertical layer in the microconvection model. (Russian. Russian summary) **2005b:76055**
Bég, O. Anwar (*with* Bég, Tasveer A.; Takhar, H. S.; Raptis, A. A.) Mathematical and numerical modeling of non-Newtonian thermo-hydrodynamic flow in non-Darcy porous media. (English summary) **2005k:76129**
Bég, Tasveer A. *see* **Bég, O. Anwar et al., 2005k:76129**
(Bejan, Adrian) *see* **Emerging technologies and techniques in porous media, 2005c:76001**
Bekezhanova, V. B. *see* **Andreev, V. K., 2005b:76055**
Belk, Michaël (*with* Vol′pert, Vit. A.) Modeling of heat explosion with convection. (English summary) **2005a:80004**
Bennacer, R. Natural convection in anisotropic heterogeneous porous medium. (*see* **2005c:76001**)
Bhadauria, B. S. (*with* Debnath, Lokenath) Effects of modulation on Rayleigh-Benard convection. I. **2005a:76073**
Boacă, Tudor *see* **Pascu, Mihai, 2005c:35244**
Debnath, Lokenath *see* **Bhadauria, B. S., 2005a:76073**
Debusschere, Bert J. *see* **Le Maître, Olivier P. et al., 2005i:76094**
Dick, Erik *see* **Vierendeels, Jan et al.**
Drina Rojas-Medar, M. *see* **Santos da Rocha, M. et al., 2005d:76010**
Elbarbary, Elsayed M. E. M. Chebyshev finite difference method for the solution of boundary-layer equations. (English summary) **2005f:76072**
Ghanem, Roger G. *see* **Le Maître, Olivier P. et al., 2005i:76094**
Hamad, Mohammad A. A. *see* **Ibrahim, Fouad S. et al., 2005m:76148**
Hannoun, N. (*with* Alexiades, V.; Mai, T. Z.) A reference solution for phase change with convection. (English summary)
Ibrahim, Fouad S. (*with* Mansour, Mohammad A.; Hamad, Mohammad A. A.) Lie-group analysis of radiative and magnetic field effects on free convection and mass transfer flow past a semi-infinite vertical flat plate. (English summary) **2005m:76148**
(Ingham, Derek B.) *see* **Emerging technologies and techniques in porous media, 2005c:76001**
Jha, Basant Kumar *see* **Mishra, R. B. et al., 2005i:76123**
Keller, Bruno *see* **Rees, D. A. S. et al.**
Knio, Omar M. *see* **Le Maître, Olivier P. et al., 2005i:76094**
Kumar, Rajendra *see* **Sahu, Ruchi et al.**
Lazarovici, A. (*with* Vol′pert, Vit. A.; Merkin, John H.) Steady states, oscillations and heat explosion in a combustion problem with convection. (English summary) **2005i:80005**
Lee, Joung Nam *see* **Yang, Young-Kyun, 2005a:76078**
Le Maître, Olivier P. (*with* Reagan, M. T.; Debusschere, Bert J.; Najm, Habib N.; Ghanem, Roger G.; Knio, Omar M.) Natural convection in a closed cavity under stochastic non-Boussinesq conditions. (English summary) **2005i:76094**
Magyari, E. *see* **Rees, D. A. S. et al.**
Mai, T. Z. *see* **Hannoun, N. et al.**
(Mamut, Eden) *see* **Emerging technologies and techniques in porous media, 2005c:76001**
Mansour, Mohammad A. *see* **Ibrahim, Fouad S. et al., 2005m:76148**

Merci, Bart *see* **Vierendeels, Jan et al.**
Merkin, John H. *see* **Lazarovici, A. et al., 2005i:80005**
Mishra, R. B. (*with* Singh, R. A.; Jha, Basant Kumar) Natural convection in steady MHD Couette flow of heat generating fluid. (English summary) **2005i:76123**
Najm, Habib N. *see* **Le Maître, Olivier P. et al., 2005i:76094**
Paolucci, Samuel *see* **Suslov, Sergey A., 2005c:76048**
Pascu, Mihai (*with* Boacă, Tudor) On the exterior problem for the heat convection equation. (English summary) **2005c:35244**
Pop, Ioan[2] *see* **Emerging technologies and techniques in porous media, 2005c:76001** *and* **Saeid, Nawaf H.**
Raptis, A. A. *see* **Bég, O. Anwar et al., 2005k:76129**
Reagan, M. T. *see* **Le Maître, Olivier P. et al., 2005i:76094**
Rees, D. A. S. Nonlinear vortex instabilities in free convective boundary layers in porous media. (*see* **2005c:76001**)
— (*with* Magyari, E.; Keller, Bruno) Vortex instability of the asymptotic dissipation profile in a porous medium. (English summary)
Rojas-Medar, Marko A. *see* **Santos da Rocha, M. et al., 2005d:76010**
Saeid, Nawaf H. (*with* Pop, Ioan[2]) Non-Darcy natural convection in a square cavity filled with a porous medium. (English summary)
Sahu, Ruchi (*with* Singh, M. P.; Kumar, Rajendra) Transient free-convection flow through magnetic field. (English summary)
Santos da Rocha, M. (*with* Rojas-Medar, Marko A.; Drina Rojas-Medar, M.) On the existence and uniqueness of the stationary solution to equations of natural convection with boundary data in L^2. (English summary) **2005d:76010**
Sawada, Okihiro (*with* Taniuchi, Yasushi) On the Boussinesq flow with nondecaying initial data. (English summary) **2005h:35287**
Singh, M. P. *see* **Sahu, Ruchi et al.**
Singh, R. A. *see* **Mishra, R. B. et al., 2005i:76123**
Suslov, Sergey A. (*with* Paolucci, Samuel) Stability of non-Boussinesq convection via the complex Ginzburg-Landau model. (English summary) **2005c:76048**
Takhar, H. S. *see* **Bég, O. Anwar et al., 2005k:76129**
Taniuchi, Yasushi *see* **Sawada, Okihiro, 2005h:35287**
Velamur Asokan, Badrinarayanan (*with* Zabaras, Nicholas) Using stochastic analysis to capture unstable equilibrium in natural convection. (English summary) **2005k:76080**
Vierendeels, Jan (*with* Merci, Bart; Dick, Erik) A multigrid method for natural convective heat transfer with large temperature differences. (English summary)
Vol'pert, Vit. A. *see* **Belk, Michaël, 2005a:80004** *and* **Lazarovici, A. et al., 2005i:80005**
Xu, Hang An explicit analytic solution for free convection about a vertical flat plate embedded in a porous medium by means of homotopy analysis method. (English summary) **2005g:76122**
Yang, Young-Kyun (*with* Lee, Joung Nam) On the structure of a mush. (English summary) **2005a:76078**
Zabaras, Nicholas *see* **Velamur Asokan, Badrinarayanan, 2005k:76080**

Items listed otherwise than by author

Constanta ★ Emerging technologies and techniques in porous media. **2005c:76001**
Emerging technologies and techniques in porous media ★ Emerging technologies and techniques in porous media. **2005c:76001**

76R50 Diffusion [see also 60J60]

Adler, P. M. (*with* Malevich, A. E.; Mityushev, V.) Macroscopic diffusion on rough surfaces. (English summary) **2005f:76096**
Akhmetov, R. G. Asymptotic expansion of the solution of the convective diffusion problem in the wake of a droplet. (Russian. Russian summary) **2005g:76109**
Anh, V. V. *see* **Su, Ninghu et al., (2005a:62014)**
Chernukha, O. Yu. Diffusion of an admixture in a randomly nonhomogeneous fibroid layer. (Ukrainian. English, Russian and Ukrainian summaries) **2005g:76110**
Croucher, Adrian E. (*with* O'Sullivan, Michael J.) Source term in Eulerian-Lagrangian contaminant transport simulation. (English summary)
Jiránek, Pavel (*with* Maryška, Jiří; Šembera, Jan) Model of compressible flow and transport in a time-dependent domain. (English summary) (*see* **2005j:65003**)
Liu, Fa Wang *see* **Su, Ninghu et al., (2005a:62014)**
Logvinova, Kira (*with* Néel, Marie-Christine) A fractional equation for anomalous diffusion in a randomly heterogeneous porous medium. (English summary) **2005g:76111**
Malevich, A. E. *see* **Adler, P. M. et al., 2005f:76096**
Maryška, Jiří *see* **Jiránek, Pavel et al., (2005j:65003)**
Massarotti, P. *see* **Revelli, R. et al., 2005d:76039**
Mityushev, V. *see* **Adler, P. M. et al., 2005f:76096**
Néel, Marie-Christine *see* **Logvinova, Kira, 2005g:76111**
O'Sullivan, Michael J. *see* **Croucher, Adrian E.**
Revelli, R. (*with* Ridolfi, L.; Massarotti, P.) Nonlinear convection-dispersion models with a distributed pollutant source. I. Direct initial boundary value problems. (English summary) **2005d:76039**
Ridolfi, L. *see* **Revelli, R. et al., 2005d:76039**
Šembera, Jan *see* **Jiránek, Pavel et al., (2005j:65003)**
Su, Ninghu (*with* Liu, Fa Wang; Anh, V. V.) Simulating seawater intrusion in aquifers using the modified Fokker-Planck equation and Boussinesq equation subject to phase-modulated tidal waves. (English summary) (*see* **2005a:62014**)
Wei, Yong Kang *see* **Xiong, Yue Shan**
Xiong, Yue Shan (*with* Wei, Yong Kang) Moving contaminant source model for sediment reaction and dispersion and its analytical solution. (Chinese. English and Chinese summaries)

Items with secondary classifications in 76R50

Abdulle, Assyr (*with* Attinger, Sabine) Homogenization method for transport of DNA particles in heterogeneous arrays. (English summary) **2005e:92022**
Attinger, Sabine *see* **Abdulle, Assyr, 2005e:92022**
Baronas, R. (*with* Ivanauskas, Feliksas; Kulys, J.) The effect of diffusion limitations on the response of amperometric biosensors with substrate cyclic conversion. (English summary) **2005b:35141**
Bause, Markus Computational study of field scale BTEX transport and biodegradation in the subsurface. (English summary) (*see* **2005j:65003**)
— (*with* Knabner, Peter) Numerical simulation of contaminant biodegradation by higher order methods and adaptive time stepping. (English summary) **2005f:76063**
Bertolazzi, Enrico (*with* Manzini, Gianmarco) A cell-centered second-order accurate finite volume method for convection-diffusion problems on unstructured meshes. (English summary) **2005e:65162**
Carey, Graham F. (*with* Fowkes, Neville; Staelens, Amanda; Pardhanani, Anand) A class of coupled nonlinear reaction diffusion models exhibiting fingering. (English summary) **2005a:76163**
Collins, Richard *see* **Wasuwanich, S. et al., (2005i:00016)**
Debbasch, F. (*with* Moreau, Michel) Diffusion on a curved surface: a geometrical approach. (English summary) **2005i:60151**
Dehghan, Mehdi Three-level techniques for one-dimensional parabolic equation with nonlinear initial condition. (English summary) **2005e:65117**
Delis, A. I. (*with* Katsaounis, Theodoros) A generalized relaxation method for transport and diffusion of pollutant models in shallow water. (English summary) **2005i:76080**
Dimov, Ivan T. (*with* Faragó, István; Havasi, Á.; Zlatev, Z.) Operator splitting and commutativity analysis in the Danish Eulerian model. (English summary) **2005f:86003**
Dranikov, I. L. (*with* Kondratenko, P. S.; Matveev, L. V.) Anomalous transport of pollutants in a model of stochastic advection. (Russian)
Düll, Wolf-Patrick ★ Theorie einer pseudoparabolischen partiellen Differentialgleichung zur Modellierung der Lösemittelaufnahme in Polymerfeststoffen. (German. German summary) [Theory of a pseudoparabolic partial differential equation for the modelling of solvent uptake by polymers] **2005h:35208**
Eymard, Robert (*with* Gallouët, Thierry; Gervais, Véronique; Masson, Roland) Existence and uniqueness of a weak solution to a stratigraphic model. (English summary) **2005k:86021**
Faragó, István *see* **Dimov, Ivan T. et al., 2005f:86003**
Flavin, J. N. Asymptotic and other properties of positive definite integral measures for nonlinear diffusion. (English summary) (*see* **2005c:00016**)
Flitton, J. C. (*with* King, John Robert) Surface-tension-driven dewetting of Newtonian and power-law fluids. (English summary) **2005h:76009**
Fokas, A. S. (*with* Rogers, Colin; Schief, Wolfgang Karl) Evolution of methacrylate distribution during wood saturation. (English summary) **2005k:35178**
Fowkes, Neville *see* **Carey, Graham F. et al., 2005a:76163**
Frank, T. D. Asymptotic properties of nonlinear diffusion, nonlinear drift-diffusion, and nonlinear reaction-diffusion equations. (English summary) **2005b:35129**
Gallouët, Thierry *see* **Eymard, Robert et al., 2005k:86021**
Gasanenko, Vitalii A. (*with* Roĭtman, A. B.) Rarefaction of moving diffusion particles. (Russian. English and Ukrainian summaries) **2005i:60109**
Georgescu, Adelina (*with* Palese, Lidia) Improved criteria in convection problems in the presence of thermodiffusive conductivity. (English summary) **2005j:35176**
Gervais, Véronique *see* **Eymard, Robert et al., 2005k:86021**
Ghanem, Roger G. *see* **Zou, Yu[1], 2005i:76090**
Gratton, Julio *see* **Perazzo, Carlos Alberto, 2005f:35171**
Griffies, Stephen M. ★ Fundamentals of ocean climate models. **2005d:86003**
Havasi, Á. *see* **Dimov, Ivan T. et al., 2005f:86003**
Ivanauskas, Feliksas *see* **Baronas, R. et al., 2005b:35141**
Jinuntuya, N. *see* **Wasuwanich, S. et al., (2005i:00016)**
Katsaounis, Theodoros *see* **Delis, A. I., 2005i:76080**
King, John Robert (*with* Meere, M. G.) The dissociative diffusion mechanism with charge effects. II. Two-dimensional in-diffusion. (English summary) **2005a:82116**
— *see also* **Meere, M. G., 2005a:35164** *and* **Flitton, J. C., 2005h:76009**
Knabner, Peter *see* **Bause, Markus, 2005f:76063**
Kondratenko, P. S. *see* **Dranikov, I. L. et al.**
Kramer, Peter R. (*with* Majda, Andrew J.) Stochastic mode reduction for the immersed boundary method. (English summary) **2005c:60085**
— (*with* Majda, Andrew J.) Stochastic mode reduction for particle-based simulation methods for complex microfluid systems. (English summary) **2005c:60086**
Kulys, J. *see* **Baronas, R. et al., 2005b:35141**
Majda, Andrew J. *see* **Kramer, Peter R., 2005c:60085** *and* **2005c:60086**
Manzini, Gianmarco *see* **Bertolazzi, Enrico, 2005e:65162**
Masson, Roland *see* **Eymard, Robert et al., 2005k:86021**
Matveev, L. V. *see* **Dranikov, I. L. et al.**
(McDougall, Trevor J.) *see* **Griffies, Stephen M., 2005d:86003**
Meere, M. G. (*with* King, John Robert) The dissociative diffusion mechanism with charge effects. I. One-dimensional in-diffusion. (English summary) **2005a:35164**
— *see also* **King, John Robert, 2005a:82116**
Mikelić, Andro (*with* Primicerio, Mario) Blood perfusion in muscles: from microscopic models to continuum approach via homogenization. (English summary) (*see* **2005c:00016**)
Moreau, Michel *see* **Debbasch, F., 2005i:60151**
Palese, Lidia *see* **Georgescu, Adelina, 2005j:35176**
Pardhanani, Anand *see* **Carey, Graham F. et al., 2005a:76163**
Perazzo, Carlos Alberto (*with* Gratton, Julio) Bounds of waiting-time in nonlinear diffusion. (English summary) **2005f:35171**
Petpirom, P. *see* **Wasuwanich, S. et al., (2005i:00016)**
Primicerio, Mario *see* **Mikelić, Andro, (2005c:00016)**
Remešíková, M. Solution of convection-diffusion problems with nonequilibrium adsorption. (English summary) **2005c:35151**
Roberts, A. J. Shear dispersion along circular pipes is affected by bends, but the torsion of the pipe is negligible. (English summary) **2005h:76031**
Rogers, Colin *see* **Fokas, A. S. et al., 2005k:35178**
Roĭtman, A. B. *see* **Gasanenko, Vitalii A., 2005i:60109**
Sandrakov, G. V. Multiphase diffusion models in homogenization. (Russian) **2005g:35181**
— Multiphase averaged diffusion models in a strongly inhomogeneous medium. (Russian)
Schief, Wolfgang Karl *see* **Fokas, A. S. et al., 2005k:35178**

van der Sman, R. G. M. Lattice Boltzmann scheme for diffusion on triangular grids. (English summary) (*see* **2005c:00014**)
Staelens, Amanda *see* **Carey, Graham F. et al., 2005a:76163**
Wasuwanich, S. (*with* Jinuntuya, N.; Petpirom, P.; Collins, Richard) Diffusional release of a dispersed solute from a polymeric matrix: approximation of the exact solutions using finite region continuity. (English summary) (*see* **2005i:00016**)
Zlatev, Z. *see* **Dimov, Ivan T. et al., 2005f:86003**
Zou, Yu[1] (*with* Ghanem, Roger G.) A multiscale data assimilation with the ensemble Kalman filter. (English summary) **2005i:76090**
Zunino, Paolo Iterative substructuring methods for advection-diffusion problems in heterogeneous media. (English summary) **2005f:65133**

76R99 None of the above, but in this section

Anilkumar, D. (*with* Roy, Satyajit) Unsteady mixed convection flow on a rotating cone in a rotating fluid. (English summary) **2005b:76125**
Bermúdez, Blanca *see* **Nicolás, Alfredo, 2005m:76165**
Elaiw, A. M. *see* **Hassanien, I. A. et al.**
Hassanien, I. A. (*with* Salama, Abdelhay Azoz; Elaiw, A. M.) The onset of longitudinal vortices in mixed convection flow over an inclined surface in a porous medium with variable permeability. (English summary)
Mazumder, Bijoy S. *see* **Mondal, Kajal Kumar**
Mondal, Kajal Kumar (*with* Mazumder, Bijoy S.) On the solute dispersion in a pipe of annular cross-section with absorption boundary. (English summary)
Nicolás, Alfredo (*with* Bermúdez, Blanca) 2D thermal/isothermal incompressible viscous flows. (English summary) **2005m:76165**
Roy, Satyajit *see* **Anilkumar, D., 2005b:76125**
Salama, Abdelhay Azoz *see* **Hassanien, I. A. et al.**
Tsitverblit, N. Mechanism of finite-amplitude double-component convection due to different boundary conditions. (English summary)

Items with secondary classifications in 76R99

Alexandrescu, M. *see* **Alexandrescu, N. et al.**
Alexandrescu, N. (*with* Alexandrescu, M.; Ene, Horia I.) Unsteady mixed convection at stagnant point flows in porous saturated media. (English summary)
Al-Odat, M. Q. Transient non-Darcy mixed convection along a vertical surface in porous medium with suction or injection. (English summary)
Alvarado, Vladimir Hydrodynamic dispersion in a hierarchical network with a power-law distribution of conductances. (English summary) **2005k:76127**
Amberg, G. *see* **Shiomi, J., 2005j:76035**
Benachour, Saïd (*with* Karch, Grzegorz; Laurençot, Philippe) Asymptotic profiles of solutions to convection-diffusion equations. (English and French summaries) **2005a:35125**
Bensaada, Mohammed (*with* Esselaoui, Driss; Sandri, Dominique) Stabilization method for continuous approximation of transient convection problem. (English summary) **2005i:65139**
Berlyand, Leonid (*with* Golovaty, Dmitry; Movchan, Alexander; Phillips, Jonathan) Transport properties of densely packed composites. Effect of shapes and spacings of inclusions. (English summary) **2005g:74032**
Burman, Erik (*with* Hansbo, Peter) Edge stabilization for Galerkin approximations of convection-diffusion-reaction problems. (English summary) **2005d:65186**
Chamkha, A. J. *see* **Umavathi, J. C. et al.**
Chugaĭnova, A. P. *see* **Kulikovskiĭ, A. G., 2005g:35198**
Duan, Jin Qiao *see* **Wang, Wei[6] et al., 2005k:60207**
Ene, Horia I. *see* **Alexandrescu, N. et al.**
Esselaoui, Driss *see* **Bensaada, Mohammed et al., 2005i:65139**
Gelb, Anne *see* **Gleeson, James P. et al., 2005a:76167**
Gleeson, James P. (*with* Roche, Olivia M.; West, Jonathan; Gelb, Anne) Modelling annular micromixers. (English summary) **2005a:76167**
Golovaty, Dmitry *see* **Berlyand, Leonid et al., 2005g:74032**
Hansbo, Peter *see* **Burman, Erik, 2005d:65186**
Kačur, J. (*with* Malengier, B.; Remešíková, M.) Solution of contaminant transport with equilibrium and non-equilibrium adsorption. (English summary) **2005g:76119**
Karch, Grzegorz *see* **Benachour, Saïd et al., 2005a:35125**
Kivva, S. L. Data assimilation for 2-D advection-dispersion equations. (English summary) (*see* **2005c:00015**)
Kulikovskiĭ, A. G. (*with* Chugaĭnova, A. P.) Modeling the influence of small-scale dispersion processes in a continuum on the formation of large-scale phenomena. (Russian. Russian summary) **2005g:35198**
Kumar, J. P. *see* **Umavathi, J. C. et al.**
Kuzin, V. I. (*with* Usova, N. Yu.) The Petrov-Galerkin method for convective-dominated non-stationary flow problems. (English summary) (*see* **2005i:65006**)
Laurençot, Philippe *see* **Benachour, Saïd et al., 2005a:35125**
Linß, Torsten On a convection-diffusion problem with a weak layer. (English summary) **2005k:65147**
Luo, Zhen Dong *see* **Tian, Xiang Jun et al., 2005h:65172**
Malengier, B. *see* **Kačur, J. et al., 2005g:76119**
Martin, Véronique An optimized Schwarz waveform relaxation method for the unsteady convection diffusion equation in two dimensions. (English summary) **2005i:65137**
Movchan, Alexander *see* **Berlyand, Leonid et al., 2005g:74032**
Ol′shanskiĭ, M. A. Analysis of a multigrid method for convection-diffusion equations with Dirichlet boundary conditions. (Russian. Russian summary) **2005k:65276**
Phillips, Jonathan *see* **Berlyand, Leonid et al., 2005g:74032**
Pop, Ioan[2] *see* **Umavathi, J. C. et al.**
Remešíková, M. *see* **Kačur, J. et al., 2005g:76119**
Roche, Olivia M. *see* **Gleeson, James P. et al., 2005a:76167**
Sammartino, Marco (*with* Sciacca, Vincenzo) Approximate inertial manifolds for thermodiffusion equations. (English summary) (*see* **2005c:00016**)
Sandri, Dominique *see* **Bensaada, Mohammed et al., 2005i:65139**
Sciacca, Vincenzo *see* **Sammartino, Marco, (2005c:00016)**
Shiomi, J. (*with* Amberg, G.) Proportional control of oscillatory thermocapillary convection in a toy model. (English summary) **2005j:76035**
Sun, Jian Hua[1] *see* **Wang, Wei[6] et al., 2005k:60207**
Tian, Xiang Jun (*with* Xie, Zheng Hui; Luo, Zhen Dong; Zhu, Jiang[3]) Nonlinear Galerkin mixed element methods for nonstationary conduction-convection problems. III. Second-order-accuracy time fully discrete format. (Chinese. English summary) **2005h:65172**
Umavathi, J. C. (*with* Kumar, J. P.; Chamkha, A. J.; Pop, Ioan[2]) Mixed convection in a vertical porous channel. (English summary)
Usova, N. Yu. *see* **Kuzin, V. I., (2005i:65006)**
Wang, Wei[6] (*with* Sun, Jian Hua[1]; Duan, Jin Qiao) Ergodic dynamics of the stochastic Swift-Hohenberg system. (English summary) **2005k:60207**
Weigand, Bernhard ★ Analytical methods for heat transfer and fluid flow problems. **2005h:80004**
West, Jonathan *see* **Gleeson, James P. et al., 2005a:76167**
Xie, Zheng Hui *see* **Tian, Xiang Jun et al., 2005h:65172**
Zhu, Jiang[3] *see* **Tian, Xiang Jun et al., 2005h:65172**

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Aarnes, Jørg E. On the use of a mixed multiscale finite element method for greater flexibility and increased speed or improved accuracy in reservoir simulation. (English summary) **2005g:76112**
Abbasov, Amir N. Investigation of two-phase filteration problem of noncompressible viscous fluids in porous medium. (English summary)
Abbasov, Hummat M. Correctness of a non-linear parabolic problem with unknown moving boundary, describing displacement of two weakly compressible viscous fluids in the porous medium. (English summary)
Abo-Eldahab, Emad M. (*with* El Aziz, Mohamed A.) Flow and heat transfer in a micropolar fluid past a stretching surface embedded in a non-Darcian porous medium with uniform free stream. (English summary) **2005g:76113**
Abreu, Eduardo (*with* Furtado, Frederico; Pereira, Felipe) On the numerical simulation of three-phase reservoir transport problems. (English summary) **2005k:76126**
Akhmetzyanov, A. V. (*with* Kulibanov, V. N.) Unconventional mathematical models of fluid filtration in porous media. (Russian. Russian summary) **2005d:76040**
Alexandrescu, M. *see* **Alexandrescu, N. et al.**
Alexandrescu, N. (*with* Alexandrescu, M.; Ene, Horia I.) Unsteady mixed convection at stagnant point flows in porous saturated media. (English summary)
Algazin, S. D. On the computation of the eigenvalues of the transport equation. (Russian. Russian summary) **2005a:76150**
Al-Odat, M. Q. Transient non-Darcy mixed convection along a vertical surface in porous medium with suction or injection. (English summary)
Alvarado, Vladimir Hydrodynamic dispersion in a hierarchical network with a power-law distribution of conductances. (English summary) **2005k:76127**
Amahmid, A. *see* **Bourich, M. et al., (2005c:76001)**
Amara, Mohamed (*with* Capatina-Papaghiuc, Daniela; Denel, B.; Terpolilli, P.) Numerical modelling of flow with heat transfer in petroleum reservoirs. (English summary) **2005i:76100**
Arntzen, Ole Jakob Higher-order terms in the capillary limit approximation of viscous-capillary flow. (English summary) **2005c:76082**
Artus, Vincent (*with* Furtado, Frederico; Nœtinger, Benoît; Pereira, Felipe) Stochastic analysis of two-phase immiscible flow in stratified porous media. (English summary)
— (*with* Nœtinger, Benoît; Ricard, Ludovic) Dynamics of the water-oil front for two-phase, immiscible flow in heterogeneous porous media. I. Stratified media. (English summary) **2005b:76126a**
— *see also* **Nœtinger, Benoît et al., 2005b:76126b**
Atkinson, Colin (*with* Monmont, F.; Zazovsky, A. F.) Flow performance of horizontal wells with inflow control devices. (English summary) **2005h:76077**
Auriault, Jean-Louis (*with* Geindreau, Christian; Boutin, Claude) Filtration law in porous media with poor separation of scales. (English summary) **2005k:76128**
— *see also* **Chastanet, J. et al., 2005a:76153**
Avila Murillo, F. *see* **Moreles, Miguel Ángel et al., 2005i:76107**
Babanly, Vahid Yu. Nonstationary filtration of two-phase system involving impermeable barrier. (English summary)
Balint, A. M. (*with* Kaslik, E.; Balint, Şt.) On the convergence of the solution of the transport equation in a periodic porous medium of a passive solute, when convection and diffusion balance each other at microscopic level and the flow is a Stokes flow. (English summary) **2005i:76101**
Balint, Şt. *see* **Balint, A. M. et al., 2005i:76101**
Barucq, Héléne (*with* Madaune-Tort, Monique; Saint-Macary, Patrick) Mathematical analysis of diffusion models in poro-elastic media. (*see* **2005b:00020**)
Bazid, M. A. A. *see* **Elbashbeshy, E. M. A., 2005g:76117**
Bazin, B. *see* **Golfier, F. et al.**
Bedrikovetskiĭ, P. G. *see* **Santos, A., 2005m:76174**
Bég, O. Anwar (*with* Bég, Tasveer A.; Takhar, H. S.; Raptis, A. A.) Mathematical and numerical modeling of non-Newtonian thermo-hydrodynamic flow in non-Darcy porous media. (English summary) **2005k:76129**
Bég, Tasveer A. *see* **Bég, O. Anwar et al., 2005k:76129**
Bennacer, R. Natural convection in anisotropic heterogeneous porous medium. (*see* **2005c:76001**)
Bourgeat, Alain (*with* Pankratov, L.; Panfilov, M.) Study of the double porosity model versus the fissures thickness. (English summary) **2005d:76041**
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Diallo, Ouaténi Modélisation mathématique et simulation numérique d'un problème de remplissage de moule par une résine fluide. (English and French summaries) [Mathematical modeling and numerical simulation of a resin transfer molding problem] **2005g:76116**
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Ackerer, Ph. *see* **Hoteit, H. et al., 2005e:76060**

Adewale, Ajayi O. *see* **Okonkwo, Zephyrinus C. et al., 2005j:86007**

Adimurthi (*with* Jaffré, Jérôme; Veerappa Gowda, G. D.) Godunov-type methods for conservation laws with a flux function discontinuous in space. (English summary) **2005c:65066**

Ahmad, Naseem (*with* Misra, Mamta) Visco-elastic flow through porous medium bounded by oscillating rigid plate in a slip regime. (English summary)

Alarcon, Eduardo Arbieto (*with* Iorio, Rafael José, Jr.) On the Cauchy problem associated to the Brinkman flow: the one dimensional theory. **2005k:35327**

Alexandrou, A. N. (*with* Entov, V. M.; Kolganov, S. S.; Kolganova, N. V.) On bubble rising in a Hele-Shaw cell filled with a non-Newtonian fluid. (English summary) **2005g:76041**

Alves, J. L. D. *see* **Coutinho, Alvaro L. G. A. et al., 2005b:76083**

Amar, Micol (*with* Gianni, Roberto) Effective saturation for composite porous media. (English and Italian summaries) **2005i:35139**

Amaziane, Brahim (*with* Ondami, Bienvenu) Homogenization of a three-phase flow model in porous media. (English summary) **2005c:35016**

Amirat, Youcef (*with* Ziani, Abdelhamid) Global weak solutions for a degenerate parabolic system modelling a one-dimensional compressible miscible flow in porous media. (English and Italian summaries) **2005k:35177**

— (*with* Ziani, Abdelhamid) Classical solutions for a multicomponent flow model in porous media. (English summary) **2005e:35186**

Anh, V. V. *see* **Su, Ninghu et al., (2005a:62014)**

Aoki, Kazuo[2] (*with* Degond, Pierre) Homogenization of a flow in a periodic channel of small section. (English summary) **2005g:76097**

Asghar, Saleem *see* **Hayat, Tasawar et al., 2005c:76091**

Auriault, Jean-Louis Acoustics of rotating deformable saturated porous media. (English summary) **2005m:76157**

Baaijens, Frank P. T. *see* **Huyghe, Jacques M. et al., 2005m:76209**

Baronas, R. (*with* Ivanauskas, Feliksas; Sapagovas, M.) Numerical investigation of moisture movement in wood during drying. (English summary) (*see* **2005c:65004**)

Barucq, Hélène (*with* Madaune-Tort, Monique; Saint-Macary, Patrick) Some existence-uniqueness results for a class of one-dimensional nonlinear Biot models. (English summary) **2005k:35401**

Bastian, Peter Higher order discontinuous Galerkin methods for flow and transport in porous media. (English summary) (*see* **2005a:65001**)

Bause, Markus Computational study of field scale BTEX transport and biodegradation in the subsurface. (English summary) (*see* **2005j:65003**)

— (*with* Knabner, Peter) Numerical simulation of contaminant biodegradation by higher order methods and adaptive time stepping. (English summary) **2005f:76063**

Bayada, Guy (*with* Benhaboucha, N.; Chambat, M.) Modeling of a thin film passing a thin porous medium. (English and French summaries) **2005b:76041**

Beckermann, C. *see* **Sun, Ying[3], 2005f:76103**

(Bejan, Adrian) *see* **Emerging technologies and techniques in porous media, 2005c:76001**

Belhadj, Mohamed[2] (*with* Gerbeau, J.-F.; Perthame, Benoît) A multiscale colloid transport model with anisotropic degenerate diffusion. (English summary) **2005f:35160**

Belyaev, A. Yu. Homogenization of a parabolic operator with Signorini boundary conditions in perforated domains. (English summary) **2005h:35012**

Benci, Vieri Some remarks on the theory of relativity and the naïve realism. **2005f:83005**

Ben-Dor, G. *see* **Sorek, S. et al.**

Benhaboucha, N. *see* **Bayada, Guy et al., 2005b:76041**

Bermúdez de Castro, Alfredo (*with* Ferrín, J. L.; Prieto, Andres) A finite element solution of acoustic propagation in rigid porous media. (English summary) **2005i:76072**

Bernardi, Christine *see* **Achdou, Yves et al., 2005d:65179**

Bertolazzi, Enrico (*with* Manzini, Gianmarco) A finite volume method for transport of contaminants in porous media. (English summary)

— (*with* Manzini, Gianmarco) Least square-based finite volumes for solving the advection-diffusion of contaminants in porous media. (English summary)

Bhattacharyya, Anindita (*with* Raja Sekhar, G. P.) Stokes flow inside a porous spherical shell: stress jump boundary condition. (English summary) **2005k:76029**

Boeriu, S. (*with* Bruch, J. C., Jr.) Performance analysis tools applied to a finite element adaptive mesh free boundary seepage parallel algorithm. (English summary)

Boersma, B. J. *see* **Breugem, W. P. et al., 2005k:76034**

Bogachev, Vladimir I. (*with* Da Prato, Giuseppe; Röckner, Michael) Invariant measures of generalized stochastic equations of porous media. (Russian) **2005k:60191**

Borja, Ronaldo I. *see* **Li, Chao et al., 2005b:74040**

Borsi, I. (*with* Farina, Angiolo; Fasano, Antonio) On the infiltration of rain water through the soil with runoff of the excess water. (English summary) **2005k:35234**

Braides, Andrea (*with* Chiadò Piat, Valeria; Pyatnitskii, Andrei L.) A variational approach to double-porosity problems. **2005h:35013**

Breugem, W. P. (*with* Boersma, B. J.; Uittenbogaard, R. E.) The laminar boundary layer over a permeable wall. (English summary) **2005k:76034**

Bruch, J. C., Jr. *see* **Jiang, Bin et al., (2005b:65003)** *and* **Boeriu, S.**

Calugaru, Dan-Gabriel (*with* Tromeur-Dervout, Damien) Aitken acceleration of Dirichlet-Neumann algorithm for flow in porous media with discontinuous permeability. (English summary) (*see* **2005b:76005**)

Campanella, Osvaldo H. *see* **Singh, Pawan P. et al., 2005f:92014**

Capone, F. (*with* Rionero, Salvatore) On the onset of convection for a double diffusive mixture in a porous medium under periodic in space boundary data. (English summary) (*see* **2005c:00016**)

Carey, Graham F. (*with* Fowkes, Neville; Staelens, Amanda; Pardhanani, Anand) A class of coupled nonlinear reaction diffusion models exhibiting fingering. (English summary) **2005a:76163**

Carrillo, José-Antonio (*with* Gualdani, Maria Pia; Toscani, Giuseppe) Finite speed of propagation in porous media by mass transportation methods. (English and French summaries) **2005a:35155**

Castro, R. G. S. *see* **Coutinho, Alvaro L. G. A. et al., 2005b:76083**

Chambat, M. *see* **Bayada, Guy et al., 2005b:76041**

Chen, Jin-ru (*with* Cui, Jun Zhi) Two-scale finite element method for nonselfadjoint elliptic problems with rapidly oscillatory coefficients. (English summary) **2005d:65205**

Chen, Ren Zhao *see* **Gao, Hai Yin et al.**

Chen, You Peng (*with* Xie, Chun Hong) Blow-up for a porous medium equation with a localized source. (English summary) **2005f:35162**

Chen, Zhangxin (*with* Lyons, Stephen L.; Qin, Guan) The mechanical behavior of a poroelastic medium saturated with a Newtonian fluid. (English summary) **2005a:74034**

— *see also* **Li, Wen Jun[3] et al.**

Cheng, A. H.-D. *see* **Lopatnikov, S. L., 2005f:74030**

Cheng, Yueming (*with* McVay, Duane A.; Lee, William John) BEM for 3D unsteady-state flow problems in porous media with a finite-conductivity horizontal wellbore. (English summary) **2005i:76077**

Chernukha, O. Yu. Diffusion of an admixture in a randomly nonhomogeneous fibroid layer. (Ukrainian. English, Russian and Ukrainian summaries) **2005g:76110**

Chiadò Piat, Valeria *see* **Braides, Andrea et al., 2005h:35013**

Choquet, Catherine Existence result for a radionuclide transport model with unbounded viscosity. (English summary) **2005m:35142**

Čiegis, Raimondas (*with* Iliev, Oleg; Rief, Stefan; Steiner, Konrad) On modeling and simulation of different regimes for liquid polymer moulding. (English summary) **2005h:76004**

Collino, Francis *see* **Huttunen, Tomi et al., 2005c:74042**

Coquel, Frédéric *see* **Achdou, Yves et al., 2005d:65179**

Cornaton, Fabien (*with* Perrochet, Pierre; Diersch, Hans-Jörg) A finite element formulation of the outlet gradient boundary condition for convective-diffusive transport problems. (English summary)

Corvalan, Carlos *see* **Singh, Pawan P. et al., 2005f:92013**

Coutinho, Alvaro L. G. A. (*with* Dias, C. M.; Alves, J. L. D.; Landau, Luiz; Loula, Abimael F. D.; Malta, S. M. C.; Castro, R. G. S.; Garcia, E. L. M.) Stabilized methods and post-processing techniques for miscible displacements. (English summary) **2005b:76083**

Coveney, Peter V. *see* **Harting, Jens et al., 2005b:76103**

Cui, Jun Zhi *see* **Chen, Jin-ru, 2005d:65205**

Curteanu, Anca (*with* Ingham, Derek B.; Elliott, Lionel; Lesnic, Daniel) Laplacian decomposition of steady free convection in porous media. (*see* **2005c:76001**)

Cushman, John H. *see* **Singh, Pawan P. et al., 2005f:92013** *and* **2005f:92014**

Dai, Min[2] (*with* Guo, Yan Ling; Shih, Tsi Min; Wang, Rui He) Implementation of the relaxed ILU preconditioner to reservoir simulators. (Chinese. English summary)

Da Prato, Giuseppe (*with* Röckner, Michael) Invariant measures for a stochastic porous medium equation. (English summary) **2005h:60181**

— (*with* Röckner, Michael) Weak solutions to stochastic porous media equations. (English summary) **2005c:60078**

— *see also* **Bogachev, Vladimir I. et al., 2005k:60191**

Daripa, Prabir (*with* Paşa, Gelu) An optimal viscosity profile in enhanced oil recovery by polymer flooding. (English summary) **2005f:76039**

Darwin, Robert W. *see* **Fowler, Kathleen R. et al.**

De Chant, Lawrence J. Approximate inertial manifold-based finite-difference operators and quasi-steady solutions of parabolic PDEs with application to sediment transport. (English summary) **2005d:37160**

Degond, Pierre *see* **Aoki, Kazuo[2], 2005g:76097**

Deĭneka, V. S. *see* **Sergienko, Ivan V., 2005e:49079**

Del Pino, Stephane (*with* Pironneau, Olivier) Asymptotic analysis and layer decomposition for the couplex exercise. (English summary) **2005c:76062**

Dias, C. M. *see* **Coutinho, Alvaro L. G. A. et al., 2005b:76083**

Diersch, Hans-Jörg *see* **Cornaton, Fabien et al.**

Discacciati, Marco (*with* Quarteroni, Alfio) Convergence analysis of a subdomain iterative method for the finite element approximation of the coupling of Stokes and Darcy equations. (English summary) **2005e:65142**

Edelman, Inna Bulk and surface waves in porous media: asymptotic analysis. (*see* **2005b:00020**)

Efendiev, Messoud A. (*with* Fuhrmann, J.; Zelik, S. V.) The long-time behaviour of the thermoconvective flow in a porous medium. (English summary) **2005h:37194**

Elaiw, A. M. *see* **Hassanien, I. A. et al.**

Elliott, Lionel *see* **Curteanu, Anca et al., (2005c:76001)**

El'tsov, I. N. *see* **Shelukhin, Vladimir, 2005h:86001**

Entov, V. M. *see* **Alexandrou, A. N. et al., 2005g:76041**

Èskin, L. D. On a problem of P. Ya. Polubarinova-Kochina on the drainage of a basin. (Russian) **2005k:35216**

Ewing, Richard E. (*with* Lin, Yan Ping; Wang, Jun Ping[1]; Zhang, Shu Hua[3]) L^∞-error estimates and superconvergence in maximum norm of mixed finite element methods for non-Fickian flows in porous media. (English summary) **2005k:76074**

— *see also* **Li, Wen Jun[3] et al.**

Eymard, Robert (*with* Gallouët, Thierry) Finite volume schemes for two-phase flow in porous media. (English summary) **2005a:76107**

— (*with* Gallouët, Thierry; Granjeon, D.; Masson, Roland; Tran, Quang Huy) Multi-lithology stratigraphic model under maximum erosion rate constraint. (English summary) **2005a:86029**

Farina, Angiolo *see* **Borsi, I. et al., 2005k:35234**

Farmer, Christopher Geological modelling and reservoir simulation. (English summary) **2005j:86021**

Farthing, Matthew W. *see* **Fowler, Kathleen R. et al.**

Fasano, Antonio *see* **Borsi, I. et al., 2005k:35234**

Ferreira, Raúl (*with* Groisman, Pablo; Rossi, Julio Daniel) Numerical blow-up for the porous medium equation with a source. (English summary) **2005a:65102**

Ferrín, J. L. *see* **Bermúdez de Castro, Alfredo et al., 2005i:76072**

Flavin, J. N. Asymptotic and other properties of positive definite integral measures for nonlinear diffusion. (English summary) (*see* **2005c:00016**)

Fokas, A. S. (*with* Rogers, Colin; Schief, Wolfgang Karl) Evolution of methacrylate distribution during wood saturation. (English summary) **2005k:35178**

Fowkes, Neville *see* **Carey, Graham F. et al., 2005a:76163**

Fowler, Kathleen R. (*with* Kelley, Carl T.; Miller, Cass T.; Kees, Christopher E.; Darwin, Robert W.; Reese, Jill P.; Farthing, Matthew W.; Reed, Mark S. C.) Solution of a well-field design problem with implicit filtering. (English summary)

Frank, T. D. Asymptotic properties of nonlinear diffusion, nonlinear drift-diffusion, and nonlinear reaction-diffusion equations. (English summary) **2005b:35129**

Frankel, Michael (*with* Roytburd, Victor) On attractors for a sharp interface model of

exothermic phase transitions. (English summary) **2005e:37183**

Frid, Hermano (*with* Shelukhin, Vladimir) A quasi-linear parabolic system for three-phase capillary flow in porous media. (English summary) **2005b:35112**

Fuhrmann, J. *see* **Efendiev, Messoud A. et al., 2005h:37194**

Galeş, C. Potential method in the linear theory of swelling porous elastic soils. (English summary) **2005h:74048**

Gallouët, Thierry Boundary conditions for hyperbolic equations or systems. (English summary) **2005k:35261**

— *see also* **Eymard, Robert et al., 2005a:76107** *and* **2005a:86029**

Galusinski, Cédric (*with* Saad, Mazen) On a degenerate parabolic system for compressible, immiscible, two-phase flows in porous media. (English summary) **2005h:35192**

Gao, Hai Yin (*with* Weng, Shi You; Chen, Ren Zhao) Penalty shifting method for calculation of optimal linewise control of osmotic systems for the basis of concrete dam. (Chinese. English and Chinese summaries)

Garcia, E. L. M. *see* **Coutinho, Alvaro L. G. A. et al., 2005b:76083**

Gaspar, Francisco J. *see* **Wienands, Roman et al., 2005h:65246**

Gatmiri, Behrouz (*with* Van Nguyen, Khoa) Time 2D fundamental solution for saturated porous media with incompressible fluid. (English summary) **2005i:74027**

Gerbeau, J.-F. *see* **Belhadj, Mohamed[2] et al., 2005f:35160**

Gianni, Roberto (*with* Mannucci, Paola) Existence of a weak solution for an n-dimensional elliptic-parabolic problem. (English summary) **2005d:35279**

— *see also* **Amar, Micol, 2005i:35139**

Gil, Omar (*with* Quirós Gracián, Fernando) Boundary layer formation in the transition from the porous media equation to a Hele-Shaw flow. (English and French summaries) **2005d:35143**

Ginting, V. Analysis of two-scale finite volume element method for elliptic problem. (English summary) **2005e:65165**

Gomilko, A. M. (*with* Savitskii, O. A.; Trofimchuk, A. N.) Asymptotic solution of a harmonic contact problem for a permeable stamp on a liquid saturated base. (English and Ukrainian summaries) **2005e:74015**

Granjeon, D. *see* **Eymard, Robert et al., 2005a:86029**

Gratton, Julio *see* **Perazzo, Carlos Alberto, 2005f:35171**

Groisman, Pablo *see* **Ferreira, Raúl et al., 2005a:65102**

Gualdani, Maria Pia *see* **Carrillo, José-Antonio et al., 2005a:35155**

Gubkina, E. V. (*with* Monakhov, V. N.) Numerical approximation of contact problems of fluid filtration. (Russian. Russian summary) **2005k:65055**

Guo, Yan Ling *see* **Dai, Min[2] et al.**

Guseynov, Faig B. A mixed problem for Barenblatt-Jeltov-Kochina equation in bounded domain. (English summary)

— (*with* Iskenderov, Bala Aga-Guseĭn ogly) On the mixed problem for Barenblatt-Jeltov-Kochina equation in the cylindrical domain by the space variables. (English summary)

Gustafsson, Björn (*with* Prokhorov, Dmitriĭ Valentinovich; Vasil′ev, A. Yu.) Infinite lifetime for the starlike dynamics in Hele-Shaw cells. (English summary) **2005k:30019**

Haghighi, Kamyar *see* **Singh, Pawan P. et al., 2005f:92013**

Han, Young Han *see* **Kim, Joon Hyun et al., (2005i:65006)**

Harting, Jens (*with* Venturoli, Maddalena; Coveney, Peter V.) Large-scale grid-enabled lattice Boltzmann simulations of complex fluid flow in porous media and under shear. (English summary) **2005b:76103**

Hassanien, I. A. (*with* Salama, Abdelhay Azoz; Elaiw, A. M.) The onset of longitudinal vortices in mixed convection flow over an inclined surface in a porous medium with variable permeability. (English summary)

Hayat, Tasawar (*with* Naz, R.; Asghar, Saleem) Hall effects on unsteady duct flow of a non-Newtonian fluid in a porous medium. (English summary) **2005c:76091**

Hazra, Subhendu Bikash (*with* Schulz, Volker) On efficient computation of the optimization problem arising in the inverse modeling of non-stationary multiphase multicomponent flow through porous media. **2005m:49064**

He, Changming *see* **Hu, Bill X. et al.**

Heald, John (*with* McEwan, Ian; Tait, Simon) Sediment transport over a flat bed in a unidirectional flow: simulations and validation. (English summary)

Hoàng, Viêt Hà Homogenization of the Stokes flow with small viscosity in a non-periodic porous medium. (English and Italian summaries) **2005f:35025**

Hoteit, H. (*with* Ackerer, Ph.; Mosé, R.) Nuclear waste disposal simulations: Couplex test cases. (English summary) **2005e:76060**

Hou, Thomas Yizhao Multiscale modelling and computation of fluid flow. (English summary) **2005j:76059**

Hu, Bill X. (*with* Wu, Jichun; He, Changming) On stochastic modeling of groundwater flow and solute transport in multi-scale heterogeneous formations. (English summary)

Huan, Guanren *see* **Li, Wen Jun[3] et al.**

Huang, Yi[1] (*with* Wang, Xiaogang) The 3-D non-axisymmetrical Lamb's problem in transversely isotropic saturated poroelastic media. (English summary) **2005i:74028**

Huang, Zhida The filtration with third boundary value in partially saturated layered porous media. (English summary)

— On weak solution of the equation related to filtration problems. (English summary) **2005g:35176**

Hudson, Justin (*with* Sweby, Peter K.) A high-resolution scheme for the equations governing 2D bed-load sediment transport. (English summary) **2005k:65174**

Huttunen, Tomi (*with* Monk, P. B.; Collino, Francis; Kaipio, Jari P.) The ultra-weak variational formulation for elastic wave problems. (English summary) **2005c:74042**

Huyghe, Jacques M. (*with* Van Loon, R.; Baaijens, Frank P. T.) Fluid-solid mixtures and electrochemomechanics: the simplicity of Lagrangian mixture theory. (English summary) **2005m:76209**

Il′ichev, A. T. (*with* Tsypkin, G. G.) Transition to instability of the interface in geothermal systems. (English summary) **2005m:86003**

Iliev, Oleg *see* **Čiegis, Raimondas et al., 2005h:76004**

Il′yasov, Kh. Kh. Propagation of nonradiating waves along a free surface of a porous fluid-saturated medium. (Russian. Russian summary) **2005i:74029**

Imomnazarov, Kh. Kh. Electromechanical potentials in cortical bone (a phenomenological approach). (Russian)

Ingham, Derek B. *see* **Emerging technologies and techniques in porous media, 2005c:76001** *and* **Curteanu, Anca et al., (2005c:76001)**

Iorio, Rafael José, Jr. *see* **Alarcon, Eduardo Arbieto, 2005k:35327**

Iske, Armin (*with* Käser, Martin) Two-phase flow simulation by AMMoC, an adaptive meshfree method of characteristics. (English summary)

— *see also* **Mathematical methods and modelling in hydrocarbon exploration and production, 2005i:76002**

Iskenderov, Bala Aga-Guseĭn ogly *see* **Guseynov, Faig B.**

Ivanauskas, Feliksas *see* **Baronas, R. et al., (2005c:65004)**

Jaffré, Jérôme *see* **Adimurthi et al., 2005c:65066**

Jain, Naresh C. (*with* Taneja, Rajeev) On forced flow along a porous vertical wall. (English summary)

Jaiswal, B. S. (*with* Soundalgekar, V. M.) Unsteady free and forced convection MHD flow past an infinite vertical porous plate with variable suction and oscillating plate temperature. (English summary)

Jenny, P. (*with* Lee, Seong Hee; Tchelep, H. A.) Adaptive multiscale finite-volume method for multiphase flow and transport in porous media. (English summary) **2005i:76076**

Jiang, Bin (*with* Bruch, J. C., Jr.; Sloss, J. M.) Numerical solution for domain decomposed, heterogeneously modeled seepage problems. (English summary) (*see* **2005b:65003**)

Jiang, Mao Ze *see* **Zhi, Yuan Hong**

Juanes, Ruben (*with* Patzek, Tadeusz W.) Multiscale-stabilized solutions to one-dimensional systems of conservation laws. (English summary) **2005m:65216**

Jurak, Mladen (*with* Prnić, Žarko) Heating of oil well by hot water circulation. (English summary) **2005k:65176**

Kaipio, Jari P. *see* **Huttunen, Tomi et al., 2005c:74042**

Käser, Martin *see* **Iske, Armin**

Kawarada, Hideo *see* **Suito, Hiroshi, 2005a:76008**

Kees, Christopher E. *see* **Fowler, Kathleen R. et al.**

Kelley, Carl T. *see* **Fowler, Kathleen R. et al.**

Khusnutdinova, N. V. An estimate for velocity modulus of hydrodynamic flows. (Russian) **2005a:35136**

— Theoretical analysis of a model of a thermal boundary layer with drag. (Russian. Russian summary) **2005m:76152**

Kim, Joon Hyun (*with* Stenstrom, Michael K.; Han, Young Han) Study of immiscible fluid flow and mass transformations in subsurface basin using multidimensional finite element code. (English summary) (*see* **2005i:65006**)

Knabner, Peter *see* **Bause, Markus, 2005f:76063**; **Schneid, Eckhard et al., 2005g:65150** *and* **Radu, Adrian Florin et al., 2005m:65189**

Knowles, Ian W. (*with* Yan, Aimin) On the recovery of transport parameters in groundwater modelling. (English summary) **2005b:35296**

Kolganov, S. S. *see* **Alexandrou, A. N. et al., 2005g:76041**

Kolganova, N. V. *see* **Alexandrou, A. N. et al., 2005g:76041**

Kondrashov, A. V. Properties of certain phase transition fronts in geothermal porous reservoirs. (English summary) **2005k:86009**

Kong, De Xing *see* **Liu, Fa Gui**

Kubo, Masahiro[1] A filtration model with hysteresis. (English summary) **2005g:35178**

Lacroix, Sébastien (*with* Vasilevskiĭ, Yu. V.; Wheeler, John Archibald; Wheeler, Mary Fanett) Iterative solution methods for modeling multiphase flow in porous media fully implicitly. (English summary) **2005e:65039**

Landau, Luiz *see* **Coutinho, Alvaro L. G. A. et al., 2005b:76083**

Laserra, E. Multidimensional wavelet bases in diffusion theory. (English summary) **2005c:42037**

Lattanzio, Corrado (*with* Rubino, Bruno) Asymptotic behavior and strong convergence for hyperbolic systems of conservation laws with damping. (English summary) **2005h:35230**

Lee, Seong Hee *see* **Jenny, P. et al., 2005i:76076**

Lee, William John *see* **Cheng, Yueming et al., 2005i:76077**

Leppinen, D. M. (*with* Rees, D. A. S.) Sidewall heating in shallow cavities near the density maximum. (*see* **2005c:76001**)

Lesnic, Daniel *see* **Curteanu, Anca et al., (2005c:76001)**

Levi-Hevroni, D. *see* **Sorek, S. et al.**

Levy, Avi *see* **Sorek, S. et al.**

Lewis, Roland W. (*with* Pao, William K. S.; Yang, Xin-She) Instability and reaction-diffusion transport of bacteria. (English summary) **2005d:92025**

Li, Baoyan *see* **Li, Wen Jun[3] et al.**

Li, Chao (*with* Borja, Ronaldo I.; Regueiro, Richard A.) Dynamics of porous media at finite strain. (English summary) **2005b:74040**

Li, Wen Jun[3] (*with* Chen, Zhangxin; Ewing, Richard E.; Huan, Guanren; Li, Baoyan) Comparison of the GMRES and ORTHOMIN for the black oil model in porous media. (English summary)

Lin, Yan Ping *see* **Ewing, Richard E. et al., 2005k:76074**

Lions, Pierre-Louis (*with* Masmoudi, Nader) Homogenization of the Euler system in a 2D porous medium. (English and French summaries) **2005k:35020**

Lisbona, Francisco J. *see* **Wienands, Roman et al., 2005h:65246**

Liu, Ci Qun *see* **Wang, Ji Wen**

Liu, Fa Gui (*with* Kong, De Xing) Global existence and blow-up phenomena of classical solutions for the system of compressible adiabatic flow through porous media. (Chinese. English and Chinese summaries)

Liu, Fa Wang *see* **Su, Ninghu et al., (2005a:62014)**

Liu, Jun[4] (*with* Zhang, Guan Quan) Transmissivity estimation for a two-dimensional aquifer by regularizing potential and stream functions. (English summary) **2005e:35254**

Liu, Tang Defect correction for non-Fickian flows in porous media. (Chinese. English and Chinese summaries)

Logvinova, Kira (*with* Néel, Marie-Christine) A fractional equation for anomalous diffusion in a randomly heterogeneous porous medium. (English summary) **2005g:76111**

Lopatnikov, S. L. (*with* Cheng, A. H.-D.) Macroscopic Lagrangian formulation of poroelasticity with porosity dynamics. (English summary) **2005f:74030**

Loula, Abimael F. D. *see* **Coutinho, Alvaro L. G. A. et al., 2005b:76083**

Lyons, Stephen L. *see* **Chen, Zhangxin et al., 2005a:74034**

Madaune-Tort, Monique *see* **Barucq, Héléne et al., 2005k:35401**

Mahmoud, Mostafa A. A. Unsteady MHD boundary layer flow of a non-Newtonian power-law fluid over an infinite porous flat plate embedded in a porous medium. (English summary)

Maier, Dirk E. *see* **Singh, Pawan P. et al., 2005f:92013** *and* **2005f:92014**
Maisse, E. (*with* Pousin, Jérôme) Finite element approximation of mass transfer in a porous medium with non equilibrium phase change. (English summary) **2005g:76078**
Malta, S. M. C. *see* **Coutinho, Alvaro L. G. A. et al., 2005b:76083**
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Manakova, N. A. *see* **Sviridyuk, G. A., 2005a:35144**
Mannucci, Paola *see* **Gianni, Roberto, 2005d:35279**
Manouzi, Hassan (*with* Theting, Thomas Gorm) Mixed finite element approximation for the stochastic pressure equation of Wick type. (English summary) **2005e:60150**
Manzini, Gianmarco *see* **Bertolazzi, Enrico**
Marchenko, O. A. *see* **Skopetskiĭ, V. V., 2005e:74018**
Marcus, Eduardo Adrian Santillan (*with* Tarzia, Domingo A.) Exact solutions for drying with coupled phase-change in a porous medium with a heat flux condition on the surface. (English summary) **2005j:35229**
Marinoschi, Gabriela A free boundary problem describing the saturated-unsaturated flow in a porous medium. **2005k:35437**
Marušić, Sanja A note on permeability for a network of thin channels. (English summary) **2005g:35015**
Masmoudi, Nader Some uniform elliptic estimates in a porous medium. (English and French summaries) **2005h:35044**
— *see also* **Lions, Pierre-Louis, 2005k:35020**
Masson, Roland *see* **Eymard, Robert et al., 2005a:86029**
Masuoka, Takashi *see* **Tan, Wenchang, 2005i:76037**
Mazzia, Annamaria (*with* Pini, Giorgio; Putti, Mario; Sartoretto, Flavio) Comparison of 3D flow fields arising in mixed and standard unstructured finite elements. (English summary) (*see* **2005c:00014**)
— (*with* Putti, Mario) High order Godunov mixed methods on tetrahedral meshes for density driven flow simulations in porous media. (English summary) **2005k:76084**
McEwan, Ian *see* **Heald, John et al.**
McVay, Duane A. *see* **Cheng, Yueming et al., 2005i:76077**
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Michel, Anthony A finite volume scheme for two-phase immiscible flow in porous media. (English summary) **2005a:65087**
Mikelić, Andro (*with* Rosier, Carole) Modeling solute transport through unsaturated porous media using homogenization. I. (English summary) **2005m:35018**
— (*with* Primicerio, Mario) Homogenization of a problem modeling remediation of porous media. (English summary) **2005h:35017**
Miller, Cass T. *see* **Fowler, Kathleen R. et al.**
Mira, Pablo *see* **Pastor, Manuel, (2005b:74003)**
Misra, Mamta *see* **Ahmad, Naseem**
Molotkov, L. A. On the propagation of seismic waves in block fluid media. (Russian. English and Russian summaries) **2005h:86021**
— Propagation of seismic waves in block elastic-fluid media. III. (Russian. English and Russian summaries) **2005i:86015**
Monakhov, V. N. *see* **Gubkina, E. V., 2005k:65055**
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Mosé, R. *see* **Hoteit, H. et al., 2005e:76060**
Murthy, K. N. Venkatasiva (*with* Reddy, K. Jayarami) Steady flow generated by the differential rotation of a porous disk of finite thickness. (English summary) **2005i:76118**
Nabben, R. (*with* Vuik, C.) A comparison of deflation and coarse grid correction applied to porous media flow. (English summary) **2005k:65071**
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Néel, Marie-Christine *see* **Logvinova, Kira, 2005g:76111** *and* **Nisse, Lamine, 2005m:76084**
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Paşa, Gelu *see* **Daripa, Prabir, 2005f:76039**
Pastor, Manuel (*with* Mira, Pablo) Steady state problems of elliptic type. (*see* **2005b:74003**)
Patzek, Tadeusz W. *see* **Juanes, Ruben, 2005m:65216**
Penenko, V. V. (*with* Tsvetova, E. A.) Deterministic and stochastic methods in the models of transport and transformation of pollutants. (English summary) (*see* **2005i:65006**)
Peratta, Andrés (*with* Popov, Viktor) A BEM DRM-MD for flow and transport in 3D fracture networks. (English summary) (*see* **2005d:65006**)
— (*with* Popov, Viktor) Numerical stability of the BEM for advection-diffusion problems. (English summary) **2005b:76091**
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Perthame, Benoît *see* **Belhadj, Mohamed[2] et al., 2005f:35160**
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Pironneau, Olivier Numerical and mathematical methods for the nuclear waste disposal problem. (English summary) (*see* **2005h:00013**)
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Prnić, Žarko *see* **Jurak, Mladen, 2005k:65176**
Prokhorov, Dmitriĭ Valentinovich (*with* Vasil′ev, A. Yu.) Convex dynamics in Hele-Shaw cells. (English summary) **2005j:76033**
— *see also* **Gustafsson, Björn et al., 2005k:30019**
Putti, Mario *see* **Mazzia, Annamaria et al., 2005k:76084** *and* **(2005c:00014)**
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Radkevich, E. V. *see* **Wilmański, Krzysztof, 2005m:74030**
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— *see also* **Schneid, Eckhard et al., 2005g:65150**
Raja Sekhar, G. P. *see* **Bhattacharyya, Anindita, 2005k:76029**
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Reddy, K. Jayarami *see* **Murthy, K. N. Venkatasiva, 2005i:76118**
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Regueiro, Richard A. *see* **Li, Chao et al., 2005b:74040**
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Rionero, Salvatore *see* **Capone, F., (2005c:00016)**
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— *see also* **Sun, Shuyu et al., 2005b:65110**
Röckner, Michael *see* **Da Prato, Giuseppe, 2005c:60078; 2005h:60181** *and* **Bogachev, Vladimir I. et al., 2005k:60191**
Rodin, Gregory J. (*with* Overfelt, James R.) Periodic conduction problems: the fast multipole method and convergence of integral equations and lattice sums. (English summary) **2005i:65227**
Rogers, Colin *see* **Fokas, A. S. et al., 2005k:35178**
Rosier, Carole *see* **Mikelić, Andro, 2005m:35018**
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Sabelfeld, Karl K. Stochastic Lagrangian models for simulation of particle transport in porous media. (English summary) (*see* **2005i:65006**)
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Schneid, Eckhard (*with* Knabner, Peter; Radu, Adrian Florin) A priori error estimates for a mixed finite element discretization of the Richards' equation. (English summary) **2005g:65150**
Schulz, Volker *see* **Hazra, Subhendu Bikash, 2005m:49064**
Sergienko, Ivan V. (*with* Deĭneka, V. S.) Some problems in the ecology of soil media and the optimal control of processes occurring in them. (Russian. English and Ukrainian summaries) **2005e:49079**
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Shakenov, K. Solution of one problem of linear relaxational filtration by Monte Carlo methods. (English summary) (*see* **2005i:65006**)
Shao, Xiumin Finite element methods for the equations of waves in fluid-saturated porous media. (English summary) **2005j:65116**
Shelukhin, Vladimir (*with* El′tsov, I. N.) Peculiarities of invasion zones in lateral borehole drilling. (Russian. Russian summary) **2005h:86001**
— *see also* **Frid, Hermano, 2005b:35112**
Shih, Tsi Min *see* **Dai, Min[2] et al.**
Showalter, R. E. (*with* Visarraga, D. B.) Double-diffusion models from a highly-heterogeneous medium. (English summary) **2005e:35019**
Singh, Ajay Kumar Mass transfer effects on natural convection flow of Rivlin-Ericksen fluid. (English summary)
Singh, Pawan P. (*with* Maier, Dirk E.; Cushman, John H.; Haghighi, Kamyar; Corvalan, Carlos) Effect of viscoelastic relaxation on moisture transport in foods. I. Solution of general transport equation. (English summary) **2005f:92013**
— (*with* Maier, Dirk E.; Cushman, John H.; Campanella, Osvaldo H.) Effect of viscoelastic relaxation on moisture transport in foods. II. Sorption and drying of soybeans. (English summary) **2005f:92014**
Skopetskiĭ, V. V. (*with* Marchenko, O. A.) Investigation of systems of dynamic consolidation of anisotropic media. (Russian. English and Ukrainian summaries) **2005e:74018**
Sloss, J. M. *see* **Jiang, Bin et al., (2005b:65003)**
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Srinivasacharya, D. (*with* Rajyalakshmi, I.) Creeping flow of micropolar fluid past a porous sphere. (English summary) **2005a:76007**

Staelens, Amanda *see* **Carey, Graham F. et al., 2005a:76163**
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Su, Ninghu (*with* Liu, Fa Wang; Anh, V. V.) Simulating seawater intrusion in aquifers using the modified Fokker-Planck equation and Boussinesq equation subject to phase-modulated tidal waves. (English summary) (*see* **2005a:62014**)
Suito, Hiroshi (*with* Kawarada, Hideo) Numerical simulation of spilled oil by fictitious domain method. (English summary) **2005a:76008**
Sun, Hui Xia *see* **Wei, Bao Jun**
Sun, Jun Hong Characteristic finite element methods with moving mesh for contamination by incompressible nuclear waste. (Chinese. English summary) **2005e:65137**
Sun, Shuyu (*with* Rivière, Béatrice; Wheeler, Mary Fanett) A combined mixed finite element and discontinuous Galerkin method for miscible displacement problem in porous media. (English summary) **2005b:65110**
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Sviridyuk, G. A. (*with* Manakova, N. A.) The phase space of the Cauchy-Dirichlet problem for the Oskolkov equation of nonlinear filtration. (Russian) **2005a:35144**
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Tarzia, Domingo A. *see* **Marcus, Eduardo Adrian Santillan, 2005j:35229**
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Tikhonov, Andreĭ Nikolaevich (*with* Trubetskov, M. K.; Medvedev, G. N.) Mathematical problems that arise in the creation of an "ecological policeman". (Russian. Russian summary)
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Tran, Quang Huy *see* **Eymard, Robert et al., 2005a:86029**
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Wang, Chun Peng *see* **Yin, Jing Xue, 2005a:35169**
Wang, Ji Wen (*with* Liu, Ci Qun) Local discontinuous Galerkin method for radial porous flow with dispersion and adsorption. (Chinese. English and Chinese summaries)
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Wang, Xiaogang *see* **Huang, Yi[1], 2005i:74028**
Wei, Bao Jun (*with* Sun, Hui Xia) Multigrid-characteristic finite element method for an underground water solute transport problem. (Chinese. English and Chinese summaries)
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Wienands, Roman (*with* Gaspar, Francisco J.; Lisbona, Francisco J.; Oosterlee, Cornelis W.) An efficient multigrid solver based on distributive smoothing for poroelasticity equations. (English summary) **2005h:65246**
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— Tortuosity and objective relative accelerations in the theory of porous materials. (English summary) **2005m:74031**
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Xiong, Yue Shan (*with* Wei, Yong Kang) Moving contaminant source model for sediment reaction and dispersion and its analytical solution. (Chinese. English and Chinese summaries)
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Yang, Xin-She *see* **Lewis, Roland W. et al., 2005d:92025**
Yin, Jing Xue (*with* Wang, Chun Peng) Shrinking similar solutions of a convection diffusion equation. (English summary) **2005a:35169**
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Zhang, Shu Hua[3] *see* **Ewing, Richard E. et al., 2005k:76074**
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Items listed otherwise than by author

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Howley, Maureen A. (*with* Glasser, Benjamin J.) A comparison of one-dimensional traveling waves in inverse and normal fluidized beds. (English summary) **2005i:76109**
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Russo, Giovanni (*with* Teshukov, Vladimir; Chesnokov, Aleksandr Aleksandrovich) A special class of solutions of the kinetic equation of a bubbly fluid. (Russian. Russian summary) **2005k:76134**
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Tran, Quang Huy *see* **Baudin, Michaël et al., 2005h:76079**

Items with secondary classifications in 76T10

Abgrall, Rémi (*with* Saurel, Richard) Un modèle numérique pour la simulation d'écoulements multiphasiques compressibles. (French summary) [A numerical method for simulating compressible multiphase flows] **2005m:76129**
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Barbat, Tiberiu (*with* Ashgriz, Nasser) Planar dynamics of two interacting bubbles in an acoustic field. (English summary) **2005d:76037**
Baudin, Michaël (*with* Coquel, Frédéric; Tran, Quang Huy) A time semi-implicit relaxation scheme for two-phase flows in pipelines. (English summary) **2005k:65164**
Bruining, J. (*with* Marchesin, Dan; van Duijn, C. J.) Steam injection into water-saturated porous rock. (English summary) **2005a:76151**
Caboussat, Alexandre (*with* Maronnier, Vincent; Picasso, Marco; Rappaz, Jacques) Numerical simulation of three dimensional free surface flows with bubbles. (English summary) (*see* **2005a:65001**)
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Dong, Suchuan (*with* Liu, Dong; Maxey, Martin R.; Karniadakis, George Em) Spectral distributed Lagrange multiplier method: algorithm and benchmark tests. (English summary) **2005a:76099**
van Duijn, C. J. *see* **Bruining, J. et al., 2005a:76151**
Frankel, Michael (*with* Roytburd, Victor) On attractors for a sharp interface model of exothermic phase transitions. (English summary) **2005e:37183**
Gavrilyuk, S. L. (*with* Teshukov, Vladimir) Linear stability of parallel inviscid flows of shallow water and bubbly fluid. (English summary) **2005c:76044**
Inamuro, Takaji (*with* Ogata, Takeshi; Ogino, Fumimaru) Lattice Boltzmann simulation of bubble flows. (English summary) (*see* **2005c:00014**)
Karniadakis, George Em *see* **Dong, Suchuan et al., 2005a:76099**
Kuzmin, Dmitri (*with* Turek, Stefan) Finite element discretization and iterative solution techniques for multiphase flows in gas-liquid reactors. **2005h:65166**
Leighton, T. G. (*with* Meers, S. D.; White, P. R.) Propagation through nonlinear time-dependent bubble clouds and the estimation of bubble populations from measured acoustic characteristics. (English summary)
Le Métayer, O. (*with* Massoni, J.; Saurel, Richard) Modelling evaporation fronts with reactive Riemann solvers. (English summary) **2005m:76136**
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Mazzitelli, Irene M. (*with* Lohse, Detlef) Lagrangian statistics for fluid particles and bubbles in turbulence. (English summary)
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Picasso, Marco *see* **Caboussat, Alexandre et al., (2005a:65001)**
van der Pijl, Sander P. (*with* Segal, August; Vuik, C.; Wesseling, P.) A mass-conserving level-set method for modelling of multi-phase flows. (English summary) **2005h:76065**
Rappaz, Jacques *see* **Caboussat, Alexandre et al., (2005a:65001)**
Roytburd, Victor *see* **Frankel, Michael, 2005e:37183**
Saurel, Richard *see* **Abgrall, Rémi, 2005m:76129** *and* **Le Métayer, O. et al., 2005m:76136**
Segal, August *see* **van der Pijl, Sander P. et al., 2005h:76065**
Teshukov, Vladimir *see* **Gavrilyuk, S. L., 2005c:76044**
Tran, Quang Huy *see* **Baudin, Michaël et al., 2005k:65164**
Turek, Stefan *see* **Kuzmin, Dmitri, 2005h:65166**
Vuik, C. *see* **van der Pijl, Sander P. et al., 2005h:76065**
Wesseling, P. *see* **van der Pijl, Sander P. et al., 2005h:76065**
White, P. R. *see* **Leighton, T. G. et al.**

76T15 Dusty-gas two-phase flows

Bagewadi, C. S. (*with* Gireesha, B. J.) A study of two dimensional steady dusty fluid flow under varying pressure gradient. (English summary) **2005b:76131**
Gireesha, B. J. *see* **Bagewadi, C. S., 2005b:76131**
Gottlieb, David (*with* Temam, Roger) Spatial discretization of the dusty gas equations. (English summary) **2005a:76157**
Temam, Roger *see* **Gottlieb, David, 2005a:76157**

Items with secondary classifications in 76T15

Ajadi, Suraju Olusegun A note on the unsteady flow of dusty viscous fluid between two parallel plates. (English summary) **2005m:76076**
Chandra, Mukesh *see* **Chauhan, Tarkeshwar Singh et al.**
Chauhan, I. S. *see* **Chauhan, Tarkeshwar Singh et al.**
Chauhan, Tarkeshwar Singh (*with* Chauhan, I. S.; Chandra, Mukesh) A note on shock waves in dusty medium. (English summary)
De Souza, A. J. *see* **Doronin, Gleb G. et al., 2005b:76110**
Doronin, Gleb G. On the solvability of the Cauchy problem for the dusty gas equations. (English and Portuguese summaries)
— (*with* Lar'kin, Nikolai A.) Mathematical problems for a dusty gas flow. (English summary)
— (*with* Lar'kin, Nikolai A.; De Souza, A. J.) Existence and stability of global regular solutions for a dusty gas model. (English summary) **2005b:76110**
Ganguli, Gurudas (*with* Rudakov, Leonid) Magnetodynamics of a multicomponent (dusty) plasma. I. Rotation waves near low-frequency cutoff in a homogeneous medium. (English summary) **2005m:76197**
— *see also* **Rudakov, Leonid, 2005m:76198**
Kannan, K. *see* **Venkataraman, V., 2005k:76125**
Lar'kin, Nikolai A. *see* **Doronin, Gleb G. et al., 2005b:76110**
Phukan, D. K. (*with* Saroa, M. S.) Hydromagnetic Couette flow of a dusty fluid in a rotating frame of reference. (English summary) **2005i:76125**
Rudakov, Leonid (*with* Ganguli, Gurudas) Magnetodynamics of a multicomponent (dusty) plasma. II. Magnetic drift waves in an inhomogeneous medium. (English summary) **2005m:76198**
— *see also* **Ganguli, Gurudas, 2005m:76197**
Saroa, M. S. *see* **Phukan, D. K., 2005i:76125**
Venkataraman, V. (*with* Kannan, K.) Numerical solution of Stokes problem for free convection effects in dissipative dusty medium. (English summary) **2005k:76125**

76T20 Suspensions

Ahuja, R. (*with* Belonoshko, A. B.; Johansson, B.; Osiptsov, A. N.) Inertial phase separation in rotating self-gravitating media. (English summary) **2005j:76089**
Baranov, V. E. (*with* Martynov, S. I.) Effect of the hydrodynamic interaction of a large number of particles on their sedimentation rate in a viscous fluid. (Russian. Russian summary) **2005a:76158**
Belonoshko, A. B. *see* **Ahuja, R. et al., 2005j:76089**
Eringen, A. Cemal A continuum theory of dense suspensions. (English summary) **2005m:76181**
Fasano, Antonio (*with* Rosso, Fabio) Multiple fragmentation of liquid droplets in agitated dispersions. (English summary) **2005j:76090**
Gati, Y. Numerical simulation of a micro-macro model of concentrated suspensions. (English summary) **2005i:76112**
Jabin, Pierre-Emmanuel (*with* Otto, Felix) Identification of the dilute regime in particle sedimentation. (English summary) **2005g:76123**
Johansson, B. *see* **Ahuja, R. et al., 2005j:76089**
Marheineke, Nicole Modified FEM for fibre-fluid interactions. (English summary) (*see* **2005a:00022**)
Martynov, S. I. *see* **Baranov, V. E., 2005a:76158**
Mls, J. A contribution to the problem of the suspension dewatering. (English summary) (*see* **2005b:65003**)
Osiptsov, A. N. *see* **Ahuja, R. et al., 2005j:76089**
Otto, Felix *see* **Jabin, Pierre-Emmanuel, 2005g:76123**
Périn, Frédéric Bounds and asymptotic results for the effective viscosity of a nondilute suspension of oriented fibres in longitudinal flow. (English summary) **2005b:76132**
Powell, Robert Louis *see* **Stickel, Jonathan J., (2005h:76002)**
Rosso, Fabio *see* **Fasano, Antonio, 2005j:76090**
Stickel, Jonathan J. (*with* Powell, Robert Louis) Fluid mechanics and rheology of dense suspensions. (English summary) (*see* **2005h:76002**)

Items with secondary classifications in 76T20

Abgrall, Rémi (*with* Saurel, Richard) Un modèle numérique pour la simulation d'écoulements multiphasiques compressibles. (French summary) [A numerical method for simulating compressible multiphase flows] **2005m:76129**
Baggag, Abdelkader (*with* Sameh, Ahmed) A nested iterative scheme for indefinite linear systems in particulate flows. (English summary) **2005b:76080**
Berlyand, Leonid (*with* Khruslov, Evgeniĭ Yakovlevich) Homogenized non-Newtonian viscoelastic rheology of a suspension of interacting particles in a viscous Newtonian fluid. (English summary) **2005c:76010**
Berres, Stefan (*with* Bürger, Raimund; Karlsen, Kenneth H.; Tory, Elmer M.) Strongly degenerate parabolic-hyperbolic systems modeling polydisperse sedimentation with compression. (English summary) **2005g:35185**
— (*with* Bürger, Raimund; Karlsen, Kenneth H.) Central schemes and systems of conservation laws with discontinuous coefficients modeling gravity separation of polydisperse suspensions. (English summary) **2005c:65068**
— (*with* Bürger, Raimund; Coronel, A.; Sepúlveda, Mauricio) Numerical identification of parameters for a strongly degenerate convection-diffusion problem modelling centrifugation of flocculated suspensions. (English summary) **2005j:65099**
Blawzdziewicz, J. (*with* Wajnryb, E.; Given, James A.; Hubbard, J. B.) Sharp scalar and tensor bounds on the hydrodynamic friction and mobility of arbitrarily shaped bodies in Stokes flow. (English summary) **2005k:76030**
Bürger, Raimund (*with* Karlsen, Kenneth H.; Risebro, Nils Henrik; Towers, John D.) Monotone difference approximations for the simulation of clarifier-thickener units. (English summary) **2005c:65070**
— *see also* **Berres, Stefan et al., 2005c:65068; 2005g:35185** *and* **2005j:65099**
Capriz, Gianfranco (*with* Mullenger, George) Dynamics of granular fluids. (English summary) **2005g:76125**
Care, C. M. *see* **Dupin, M. M. et al., 2005b:76102**
Coronel, A. *see* **Berres, Stefan et al., 2005j:65099**
Dupin, M. M. (*with* Halliday, Ian; Care, C. M.) A lattice Boltzmann model of flow blunting. (English summary) **2005b:76102**
Galdi, Giovanni P. Steady flow of a Navier-Stokes fluid around a rotating obstacle. (English summary) **2005c:76030**
Given, James A. *see* **Blawzdziewicz, J. et al., 2005k:76030**
Halliday, Ian *see* **Dupin, M. M. et al., 2005b:76102**
Hubbard, J. B. *see* **Blawzdziewicz, J. et al., 2005k:76030**
Ieşan, D. On the nonlinear theory of interacting micromorphic materials. (English summary) **2005f:74007**
Karlsen, Kenneth H. *see* **Berres, Stefan et al., 2005c:65068; 2005g:35185** *and* **Bürger, Raimund et al., 2005c:65070**
Khruslov, Evgeniĭ Yakovlevich *see* **Berlyand, Leonid, 2005c:76010**
Kröger, Martin Simple models for complex nonequilibrium fluids. (English summary) **2005c:82091**
Mullenger, George *see* **Capriz, Gianfranco, 2005g:76125**
Petrie, C. J. S. *see* **Sergeev, Yu. A. et al., 2005d:82108**
Risebro, Nils Henrik *see* **Bürger, Raimund et al., 2005c:65070**
Sameh, Ahmed *see* **Baggag, Abdelkader, 2005b:76080**
Saurel, Richard *see* **Abgrall, Rémi, 2005m:76129**
Schulz, Piotr Instability and the formation of bubbles and the plugs in fluidized beds. (English summary) **2005i:76111**
Sepúlveda, Mauricio *see* **Berres, Stefan et al., 2005j:65099**
Sergeev, Yu. A. (*with* Swailes, D. C.; Petrie, C. J. S.) Stability of uniform fluidization revisited. (English summary) **2005d:82108**
Swailes, D. C. *see* **Sergeev, Yu. A. et al., 2005d:82108**
Tory, Elmer M. *see* **Berres, Stefan et al., 2005g:35185**
Towers, John D. *see* **Bürger, Raimund et al., 2005c:65070**
Wajnryb, E. *see* **Blawzdziewicz, J. et al., 2005k:76030**

76T25 Granular flows [see also 74C99, 74E20]

Alam, Meheboob (*with* Luding, Stefan) Energy nonequipartition, rheology, and microstructure in sheared bidisperse granular mixtures. (English summary)
Bisi, M. (*with* Spiga, Giampiero; Toscani, Giuseppe) Grad's equations and hydrodynamics for weakly inelastic granular flows. (English summary) **2005g:76124**
Capriz, Gianfranco (*with* Mullenger, George) Dynamics of granular fluids. (English summary) **2005g:76125**
Coorevits, Patrice *see* **Fortin, Jérôme**
Cox, Grant M. (*with* Hill, James M.) Some exact velocity profiles for granular flow in converging hoppers. (English summary)
Fang, Chung *see* **Luca, I. et al., 2005a:76159**
Fortin, Jérôme (*with* Coorevits, Patrice) Selecting contact particles in dynamics granular mechanics systems. (English summary)
— (*with* Millet, O.; de Saxcé, Géry) Numerical simulation of granular materials by an improved discrete element method. (English summary) **2005i:76113**
Gremaud, Pierre A. (*with* Matthews, John V.) On the computation of steady hopper flows. (English summary)
— (*with* Matthews, John V.; O'Malley, Meghan) On the computation of steady hopper flows. II. Von Mises materials in various geometries. (English summary)
Herrmann, Hans J. *see* **Trujillo, Leonardo, 2005d:76042**
Hill, James M. *see* **Thamwattana, Ngamta, 2005i:76114** *and* **Cox, Grant M.**
Hutter, Kolumban *see* **Luca, I. et al., 2005a:76159**
Kerswell, R. R. Dam break with Coulomb friction: a model for granular slumping? (English summary) **2005m:76182**
Luca, I. (*with* Fang, Chung; Hutter, Kolumban) A thermodynamic model of turbulent motions in a granular material. (English summary) **2005a:76159**
Luding, Stefan *see* **Alam, Meheboob**

Matthews, John V. *see* **Gremaud, Pierre A. et al.**
Maury, Bertrand Direct simulation of aggregation phenomena. (English summary) **2005h:76080**
Millet, O. *see* **Fortin, Jérôme et al., 2005i:76113**
Mullenger, George *see* **Capriz, Gianfranco, 2005g:76125**
O'Malley, Meghan *see* **Gremaud, Pierre A. et al.**
Santos, Andrés *see* **Tij, Mohamed, 2005g:76126**
de Saxcé, Géry *see* **Fortin, Jérôme et al., 2005i:76113**
Spiga, Giampiero *see* **Bisi, M. et al., 2005g:76124**
Thamwattana, Ngamta (*with* Hill, James M.) Perturbation solutions for highly frictional granular media. (English summary) **2005i:76114**
Tij, Mohamed (*with* Santos, Andrés) Poiseuille flow in a heated granular gas. (English summary) **2005g:76126**
Toscani, Giuseppe *see* **Bisi, M. et al., 2005g:76124**
Trujillo, Leonardo (*with* Herrmann, Hans J.) Hydrodynamic model for particle size segregation in granular media. (English summary) **2005d:76042**
Zohdi, T. I. Charge-induced clustering in multifield particulate flows. (English summary) **2005h:76081**

Items with secondary classifications in 76T25

Ahmed, S. A. (*with* Buckingham, Robert; Gremaud, Pierre A.; Hauck, C. D.; Kuster, C. M.; Prodanovic, M.; Royal, T. A.; Silantiev, Valentin M.) Volume determination for bulk materials in bunkers. (English summary)
Astillero, Antonio *see* **Garzó, Vicente, 2005k:82095**
Benedetto, Dario (*with* Caglioti, Emanuele; Golse, François; Pulvirenti, Mario) Hydrodynamic limits of a Vlasov-Fokker-Planck equation for granular media. (English summary) **2005g:82109**
Bobylev, A. V. (*with* Martínez-Gamba, Irene; Panferov, Vladislav A.) Moment inequalities and high-energy tails for Boltzmann equations with inelastic interactions. (English summary) **2005g:82111**
Brey, J. Javier (*with* Ruiz-Montero, M. J.) Validity of the Boltzmann equation to describe low-density granular systems. (English summary)
Brilliantov, Nikolai V. *see* **Pöschel, Thorsten et al., 2005d:82124**
Buckingham, Robert *see* **Ahmed, S. A. et al.**
Caglioti, Emanuele *see* **Benedetto, Dario et al., 2005g:82109**
Cannarsa, Piermarco (*with* Cardaliaguet, Pierre) Representation of equilibrium solutions to the table problem for growing sandpiles. (English summary) **2005k:35154**
Cardaliaguet, Pierre *see* **Cannarsa, Piermarco, 2005k:35154**
Carrillo, José-Antonio (*with* McCann, Robert J.; Villani, Cédric) Kinetic equilibration rates for granular media and related equations: entropy dissipation and mass transportation estimates. (English summary) **2005a:35126**
Filbet, Francis (*with* Pareschi, Lorenzo; Toscani, Giuseppe) Accurate numerical methods for the collisional motion of (heated) granular flows. (English summary) **2005g:82122**
Fried, Eliot (*with* Gurtin, Morton E.; Hutter, Kolumban) A void-based description of compaction and segregation in flowing granular materials. (English summary) **2005e:74010**
Galiano, Gonzalo (*with* Jüngel, Ansgar; Velasco Valdés, Julián) A parabolic cross-diffusion system for granular materials. (English summary) **2005d:35128**
Garzó, Vicente (*with* Astillero, Antonio) Transport coefficients for inelastic Maxwell mixtures. (English summary) **2005k:82095**
Golse, François *see* **Benedetto, Dario et al., 2005g:82109**
Gremaud, Pierre A. *see* **Ahmed, S. A. et al.**
Gurtin, Morton E. *see* **Fried, Eliot et al., 2005e:74010**
Gwiazda, Piotr (*with* Świerczewska, Agnieszka) An L^1-stability and uniqueness result for balance laws with multifunctions: a model from the theory of granular media. (English summary) **2005i:35179**
Hauck, C. D. *see* **Ahmed, S. A. et al.**
Hill, James M. *see* **McCue, Scott W. et al., 2005i:74020**
Hutter, Kolumban *see* **Wang, Yongqi et al., 2005b:74032** *and* **Fried, Eliot et al., 2005e:74010**
Johnpillai, I. Kenneth *see* **McCue, Scott W. et al., 2005i:74020**
Jüngel, Ansgar *see* **Galiano, Gonzalo et al., 2005d:35128**
Kuster, C. M. *see* **Ahmed, S. A. et al.**
Leszczynski, Jacek S. Computer simulations of multiparticle-contacts dynamics. (English summary) (*see* **2005c:00014**)
Li, Hai Liang^2 (*with* Toscani, Giuseppe) Long-time asymptotics of kinetic models of granular flows. (English summary) **2005e:82097**
Martínez-Gamba, Irene (*with* Panferov, Vladislav A.; Villani, Cédric) On the Boltzmann equation for diffusively excited granular media. (English summary) **2005b:82076**
— *see also* **Bobylev, A. V. et al., 2005g:82111**
McCann, Robert J. *see* **Carrillo, José-Antonio et al., 2005a:35126**
McCue, Scott W. (*with* Johnpillai, I. Kenneth; Hill, James M.) New stress and velocity fields for highly frictional granular materials. (English summary) **2005i:74020**
Panferov, Vladislav A. *see* **Martínez-Gamba, Irene et al., 2005b:82076** *and* **Bobylev, A. V. et al., 2005g:82111**
Pareschi, Lorenzo *see* **Filbet, Francis et al., 2005g:82122**
Pöschel, Thorsten (*with* Brilliantov, Nikolai V.; Schwager, Thomas) Long-time behavior of granular gases with impact-velocity dependent coefficient of restitution. (English summary) **2005d:82124**
Prodanovic, M. *see* **Ahmed, S. A. et al.**
Pudasaini, S. P. *see* **Wang, Yongqi et al., 2005b:74032**
Pulvirenti, Mario *see* **Benedetto, Dario et al., 2005g:82109**
Royal, T. A. *see* **Ahmed, S. A. et al.**
Ruiz-Montero, M. J. *see* **Brey, J. Javier**
Schwager, Thomas *see* **Pöschel, Thorsten et al., 2005d:82124**
Silantiev, Valentin M. *see* **Ahmed, S. A. et al.**
Świerczewska, Agnieszka *see* **Gwiazda, Piotr, 2005i:35179**
Toscani, Giuseppe Kinetic and hydrodynamic models of nearly elastic granular flows. (English summary) **2005f:82107**
— *see also* **Li, Hai Liang^2, 2005e:82097** *and* **Filbet, Francis et al., 2005g:82122**
Velasco Valdés, Julián *see* **Galiano, Gonzalo et al., 2005d:35128**
Villani, Cédric *see* **Carrillo, José-Antonio et al., 2005a:35126** *and* **Martínez-Gamba, Irene et al., 2005b:82076**
Wang, Yongqi (*with* Hutter, Kolumban; Pudasaini, S. P.) The Savage-Hutter theory: a system of partial differential equations for avalanche flows of snow, debris, and mud. (English summary) **2005b:74032**
Zimmerman, William B. J. On the resistance of a spherical particle settling in a tube of viscous fluid. (English summary)

76T30 Three or more component flows

Items with secondary classifications in 76T30

Abreu, Eduardo (*with* Furtado, Frederico; Pereira, Felipe) On the numerical simulation of three-phase reservoir transport problems. (English summary) **2005k:76126**
Amaziane, Brahim (*with* Ondami, Bienvenu) Homogenization of a three-phase flow model in porous media. (English summary) **2005c:35016**
Caltagirone, Jean-Paul *see* **Vincent, Stéphane et al., 2005e:76065**
Corli, Andrea (*with* Fan, Haitao) The Riemann problem for a three-phase flow. (English summary) **2005d:35161**
— (*with* Fan, Haitao) The Riemann problem for reversible reactive flows with metastability. (English summary) **2005j:35149**
Desvillettes, Laurent (*with* Monaco, Roberto; Salvarani, F.) A kinetic model allowing to obtain the energy law of polytropic gases in the presence of chemical reactions. (English summary) **2005k:80011**
Fan, Haitao *see* **Corli, Andrea, 2005d:35161** *and* **2005j:35149**
Franceschini, Flávia (*with* Frey, Sérgio) Finite element approximation for single-phase multicomponent flows. (English summary) **2005f:76066**
Frey, Sérgio *see* **Franceschini, Flávia, 2005f:76066**
Frid, Hermano (*with* Shelukhin, Vladimir) A quasi-linear parabolic system for three-phase capillary flow in porous media. (English summary) **2005b:35112**
Furtado, Frederico *see* **Abreu, Eduardo et al., 2005k:76126**
Juanes, Ruben (*with* Patzek, Tadeusz W.) Relative permeabilities for strictly hyperbolic models of three-phase flow in porous media. (English summary)
Lubin, Pierre *see* **Vincent, Stéphane et al., 2005e:76065**
Monaco, Roberto *see* **Desvillettes, Laurent et al., 2005k:80011**
Ondami, Bienvenu *see* **Amaziane, Brahim, 2005c:35016**
Patzek, Tadeusz W. *see* **Juanes, Ruben**
Pereira, Felipe *see* **Abreu, Eduardo et al., 2005k:76126**
van der Pijl, Sander P. (*with* Segal, August; Vuik, C.) Modeling of multi-phase flows with a level-set method. (English summary) (*see* **2005j:65003**)
Randrianarivelo, Tseheno Nirina *see* **Vincent, Stéphane et al., 2005e:76065**
Salvarani, F. *see* **Desvillettes, Laurent et al., 2005k:80011**
Segal, August *see* **van der Pijl, Sander P. et al., (2005j:65003)**
Shelukhin, Vladimir On a model of the filtration of a three-phase capillary fluid. (Russian) **2005e:76079**
— *see also* **Frid, Hermano, 2005b:35112**
Vincent, Stéphane (*with* Caltagirone, Jean-Paul; Lubin, Pierre; Randrianarivelo, Tseheno Nirina) An adaptative augmented Lagrangian method for three-dimensional multimaterial flows. (English summary) **2005e:76065**
Vuik, C. *see* **van der Pijl, Sander P. et al., (2005j:65003)**

76T99 None of the above, but in this section

Agrawal, Jyoti (*with* Moudgalya, Kannan M.; Pani, Amiya K.) Sliding motion and stability of a class of discontinuous dynamical systems. (English summary) **2005f:76102**
Aldas, Kemal Application of a two-phase flow model for hydrogen evolution in an electrochemical cell. (English summary)
Beckermann, C. *see* **Sun, Ying^3, 2005f:76103**
Breward, C. J. W. (*with* Howell, P. D.) Straining flow of a micellar surfactant solution. (English summary) **2005j:76091**
Chen, Yu-Kumg (*with* Chou, Shuo-Yan) Deriving the accumulation density function with parabolic trajectories of particles for arbitrary lines. (English summary)
Chou, Shuo-Yan *see* **Chen, Yu-Kumg**
Demyanov, A. Yu. (*with* Dinariev, O. Yu.) Modeling of multicomponent multiphase mixture flows on the basis of the density-functional method. (English summary) **2005m:76183**
Dinariev, O. Yu. *see* **Demyanov, A. Yu., 2005m:76183**
Godunov, Sergeĭ Konstantinovich A Galilean-invariant and thermodynamically consistent model of a composite isotropic medium. (Russian. Russian summary) **2005d:76043**
Gorostiza, Luis G. (*with* Porter, R. M.; Rodrigues, E. R.) A stochastic model for transport of size-structured particulate matter subject to fragmentation. (English summary) **2005c:76085**
Howell, P. D. *see* **Breward, C. J. W., 2005j:76091**
Kim, Junseok A continuous surface tension force formulation for diffuse-interface models. (English summary) **2005j:76092**
Linn, Joachim On the frame-invariant description of the phase space of the Folgar-Tucker equation. (English summary) (*see* **2005a:00022**)
Moudgalya, Kannan M. *see* **Agrawal, Jyoti et al., 2005f:76102**
Pani, Amiya K. *see* **Agrawal, Jyoti et al., 2005f:76102**
Porter, R. M. *see* **Gorostiza, Luis G. et al., 2005c:76085**
Rodrigues, E. R. *see* **Gorostiza, Luis G. et al., 2005c:76085**
Sun, Ying^3 (*with* Beckermann, C.) Diffuse interface modeling of two-phase flows based on averaging: mass and momentum equations. (English summary) **2005f:76103**

Items with secondary classifications in 76T99

Abbasov, Amir N. Investigation of two-phase filteration problem of noncompressible viscous fluids in porous medium. (English summary)
Alikakos, Nicholas D. (*with* Fusco, Giorgio; Karali, Georgia) Continuum limits of particles interacting via diffusion. (English summary) **2005d:82092**

Allery, C. (*with* Béghein, C.; Hamdouni, A.) Applying proper orthogonal decomposition to the computation of particle dispersion in a two-dimensional ventilated cavity. (English summary) **2005m:76099**
Anderson, Anthony (*with* Zheng, Xiaoming; Cristini, Vittorio) Adaptive unstructured volume remeshing. I. The method. (English summary) **2005m:76130**
Arntzen, Ole Jakob Higher-order terms in the capillary limit approximation of viscous-capillary flow. (English summary) **2005c:76082**
Artus, Vincent (*with* Furtado, Frederico; Nœtinger, Benoît; Pereira, Felipe) Stochastic analysis of two-phase immiscible flow in stratified porous media. (English summary)
Baaijens, Frank P. T. *see* **Huyghe, Jacques M. et al., 2005m:76209**
Babanly, Vahid Yu. Nonstationary filtration of two-phase system involving impermeable barrier. (English summary)
Barış, S. (*with* Dokuz, M. S.) Flow of a binary mixture of incompressible Newtonian fluids in a rectangular channel. (English summary) **2005h:76029**
Bedrikovetskiĭ, P. G. *see* **Santos, A., 2005m:76174**
Béghein, C. *see* **Allery, C. et al., 2005m:76099**
Benzoni-Gavage, S. (*with* Freistühler, H.) Effects of surface tension on the stability of dynamical liquid-vapor interfaces. (English summary) **2005k:35310**
Berlyand, Leonid (*with* Golovaty, Dmitry; Movchan, Alexander; Phillips, Jonathan) Transport properties of densely packed composites. Effect of shapes and spacings of inclusions. (English summary) **2005g:74032**
— (*with* Mityushev, V.) Increase and decrease of the effective conductivity of two phase composites due to polydispersity. (English summary) **2005k:74021**
Boeck, Thomas (*with* Zaleski, Stéphane) Viscous versus inviscid instability of two-phase mixing layers with continuous velocity profile. (English summary) **2005k:76041**
Bousquet-Melou, P. *see* **Goyeau, B. et al., 2005m:80003**
Boyer, Franck (*with* Chupin, Laurent; Fabrie, Pierre) Numerical study of viscoelastic mixtures through a Cahn-Hilliard flow model. (English summary) **2005c:76011**
Castelo, A. *see* **de Sousa, F. S. et al., 2005b:76099**
Chen, Tong (*with* Minev, P. D.; Nandakumar, Kumar) A projection scheme for incompressible multiphase flow using adaptive Eulerian grid: 3D validation. (English summary) **2005m:76113**
Chupin, Laurent Some theoretical results concerning diphasic viscoelastic flows of the Oldroyd kind. (English summary) **2005i:76006**
— *see also* **Boyer, Franck et al., 2005c:76011**
Corberi, Federico (*with* Gonnella, Giuseppe; Lamura, Antonio) Effects of anisotropy on the formation of a lamellar phase under shear. (English summary)
Cornille, Henri Planar DVMs mixtures models with the same geometrical structure. (English summary) (*see* **2005c:00016**)
Craster, Richard V. *see* **Edmonstone, B. D. et al., 2005i:76009**
Cristini, Vittorio *see* **Anderson, Anthony et al., 2005m:76130**
Cuminato, J. A. *see* **de Sousa, F. S. et al., 2005b:76099**
Després, Bruno (*with* Lagoutière, F.; Ramos, David) Stability of a thermodynamically coherent multiphase model. (English summary) **2005d:35162**
Dindoruk, Birol *see* **Johansen, Thormod et al., 2005m:76171** *and* **Wang, Yun et al., 2005m:76172**
Dokuz, M. S. *see* **Barış, S., 2005h:76029**
E, Wei-nan *see* **Ren, Weiqing, 2005j:76068**
Edmonstone, B. D. (*with* Matar, Omar K.; Craster, Richard V.) Flow of surfactant-laden thin films down an inclined plane. (English summary) **2005i:76009**
Efendiev, Yalchin R. *see* **Ginting, V. et al., 2005m:76167**
Eley, R. R. *see* **Schwartz, L. W. et al., 2005i:76010**
Ewing, Richard E. *see* **Ginting, V. et al., 2005m:76167**
Eymard, Robert (*with* Gallouët, Thierry; Vovelle, Julien) Limit boundary conditions for finite volume approximations of some physical problems. (English summary) **2005k:76083**
Fabrie, Pierre *see* **Boyer, Franck et al., 2005c:76011**
Fasano, Antonio (*with* Rosso, Fabio) Multiple fragmentation of liquid droplets in agitated dispersions. (English summary) **2005j:76090**
Ferreira, V. G. *see* **de Sousa, F. S. et al., 2005b:76099**
Fichot, F. *see* **Goyeau, B. et al., 2005m:80003**
Floriat, S. *see* **Panfilov, M., 2005f:76099**
Freistühler, H. *see* **Benzoni-Gavage, S., 2005k:35310**
Fujima, Shoichi *see* **Ohmori, Katsushi et al., 2005c:76031**
Fujita, Yasuhiro *see* **Ohmori, Katsushi et al., 2005c:76031**
Furtado, Frederico *see* **Artus, Vincent et al.**
Fusco, Giorgio *see* **Alikakos, Nicholas D. et al., 2005d:82092**
Gallouët, Thierry *see* **Eymard, Robert et al., 2005k:76083**
Galusinski, Cédric (*with* Saad, Mazen) On a degenerate parabolic system for compressible, immiscible, two-phase flows in porous media. (English summary) **2005h:35192**
Gavrilyuk, S. L. Acoustic properties of a two-fluid compressible mixture with micro-inertia. (English summary) **2005j:76080**
Ginting, V. (*with* Ewing, Richard E.; Efendiev, Yalchin R.; Lazarov, R. D.) Upscaled modeling in multiphase flow applications. (English summary) **2005m:76167**
Gobin, D. *see* **Goyeau, B. et al., 2005m:80003**
Golovaty, Dmitry *see* **Berlyand, Leonid et al., 2005g:74032**
Gołubowska, Barbara Action-angle analysis of some geometric models of internal degrees of freedom. (English summary) **2005i:70050**
Gonnella, Giuseppe *see* **Corberi, Federico et al.**
Gouin, Henri (*with* Ruggeri, Tommaso) Hamiltonian principle in the binary mixtures of Euler fluids with applications to the second sound phenomena. (English and Italian summaries) **2005b:76016**
Goyeau, B. (*with* Bousquet-Melou, P.; Gobin, D.; Quintard, M.; Fichot, F.) Macroscopic modeling of columnar dendritic solidification. (English summary) **2005m:80003**
Gramani Cumin, Liliana M. *see* **Sharipov, F. M. et al.**
Guo, Liejin *see* **Kang, Liqiang, 2005g:86001**
Hamdouni, A. *see* **Allery, C. et al., 2005m:76099**
Hanyga, Andrzej Two-fluid porous flow in a single temperature approximation. (English summary) **2005b:76128**
Huyghe, Jacques M. (*with* Van Loon, R.; Baaijens, Frank P. T.) Fluid-solid mixtures and electrochemomechanics: the simplicity of Lagrangian mixture theory. (English summary) **2005m:76209**
James, Ashley J. (*with* Lowengrub, John) A surfactant-conserving volume-of-fluid method for interfacial flows with insoluble surfactant. (English summary) **2005f:76076**
Jiang, Song (*with* Ni, Guo Xi[2]) A γ-model BGK scheme for compressible multifluids. (English summary) **2005b:76105**
Johansen, Thormod (*with* Wang, Yun; Orr, Franklin M., Jr.; Dindoruk, Birol) Four-component gas/oil displacements in one dimension. I. Global triangular structure. (English summary) **2005m:76171**
— *see also* **Wang, Yun et al., 2005m:76172**
Juanes, Ruben A variational multiscale finite element method for multiphase flow in porous media. (English summary) **2005j:76084**
Kalempa, Denize *see* **Sharipov, F. M. et al.**
Kang, Liqiang (*with* Guo, Liejin) Numerical simulation of aeolian sand ripples. (English summary) **2005g:86001**
Karali, Georgia *see* **Alikakos, Nicholas D. et al., 2005d:82092**
Karni, Smadar (*with* Kirr, Eduard; Kurganov, Alexander; Petrova, Guergana) Compressible two-phase flows by central and upwind schemes. (English summary) **2005g:65124**
Kas-Danouche, S. (*with* Papageorgiou, Demetrios T.; Siegel, Michael) A mathematical model for core-annular flows with surfactants. (English and Spanish summaries) **2005j:76040**
Keyfitz, Barbara Lee (*with* Sever, Michael; Zhang, Fu) Viscous singular shock structure for a nonhyperbolic two-fluid model. (English summary) **2005j:35154**
Kirr, Eduard *see* **Karni, Smadar et al., 2005g:65124**
Kurganov, Alexander *see* **Karni, Smadar et al., 2005g:65124**
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Lange, Adrian *see* **Mekhonoshin, V. V., 2005a:76083**
Lazarov, R. D. *see* **Ginting, V. et al., 2005m:76167**
Lee, Taehun (*with* Lin, Ching-Long) A stable discretization of the lattice Boltzmann equation for simulation of incompressible two-phase flows at high density ratio. (English summary)
Lin, Ching-Long *see* **Lee, Taehun**
Lowengrub, John *see* **James, Ashley J., 2005f:76076**
Mal'tseva, T. V. (*with* Trefilina, E. R.) Modeling a two-phase body taking into account the carrying capacity of the fluid phase. (Russian. English and Russian summaries)
Mangiavacchi, Norberto *see* **de Sousa, F. S. et al., 2005b:76099**
Mariano, Paolo Maria Some thermodynamical aspects of the solidification of two-phase flows. (English summary) **2005e:80004**
Matar, Omar K. *see* **Edmonstone, B. D. et al., 2005i:76009**
McKee, Sean *see* **de Sousa, F. S. et al., 2005b:76099**
Mekhonoshin, V. V. (*with* Lange, Adrian) Chain-induced effects in the Faraday instability on ferrofluids in a horizontal magnetic field. (English summary) **2005a:76083**
Mikelić, Andro (*with* Primicerio, Mario) Homogenization of a problem modeling remediation of porous media. (English summary) **2005h:35017**
Minev, P. D. *see* **Chen, Tong et al., 2005m:76113**
Mityushev, V. *see* **Berlyand, Leonid, 2005k:74021**
Movchan, Alexander *see* **Berlyand, Leonid et al., 2005g:74032**
Nandakumar, Kumar *see* **Chen, Tong et al., 2005m:76113**
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Nœtinger, Benoît *see* **Artus, Vincent et al.**
Nonato, L. G. *see* **de Sousa, F. S. et al., 2005b:76099**
Ohmori, Katsushi (*with* Fujima, Shoichi; Fujita, Yasuhiro) Convergence analysis of the interface for interfacial transport phenomena. (English summary) **2005c:76031**
Orr, Franklin M., Jr. *see* **Johansen, Thormod et al., 2005m:76171** *and* **Wang, Yun et al., 2005m:76172**
Panfilov, M. (*with* Floriat, S.) Nonlinear two-phase mixing in heterogeneous porous media. (English summary) **2005f:76099**
— (*with* Panfilova, I.) Phenomenological meniscus model for two-phase flows in porous media. (English summary) **2005j:76086**
Panfilova, I. *see* **Panfilov, M., 2005j:76086**
Papageorgiou, Demetrios T. *see* **Kas-Danouche, S. et al., 2005j:76040**
Pereira, Felipe *see* **Artus, Vincent et al.**
Perigaud, Guillaume (*with* Saurel, Richard) A compressible flow model with capillary effects. (English summary) **2005k:76113**
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Phillips, Jonathan *see* **Berlyand, Leonid et al., 2005g:74032**
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Princen, H. M. *see* **Schwartz, L. W. et al., 2005i:76010**
Qamar, Shamsul (*with* Warnecke, Gerald G.) Simulation of multicomponent flows using high order central schemes. (English summary) **2005a:76113**
Quintard, M. *see* **Goyeau, B. et al., 2005m:80003**
Ramos, David *see* **Després, Bruno et al., 2005d:35162**
Ren, Weiqing (*with* E, Wei-nan) Heterogeneous multiscale method for the modeling of complex fluids and micro-fluidics. (English summary) **2005j:76068**
Rosso, Fabio *see* **Fasano, Antonio, 2005j:76090**
Roy, R. V. *see* **Schwartz, L. W. et al., 2005i:76010**
Ruggeri, Tommaso (*with* Simić, Srboljub S.) Nonlinear wave propagation in binary mixtures of Euler fluids. (English summary) **2005f:76087**
— *see also* **Gouin, Henri, 2005b:76016**
Saad, Mazen *see* **Galusinski, Cédric, 2005h:35192**
Sac-Épée, J.-M. (*with* Taous, K.) On the behaviour of a diphasic flow with a weak relative viscosity. **2005e:76033**
Santos, A. (*with* Bedrikovetskiĭ, P. G.) Size exclusion during particle suspension transport in porous media: stochastic and averaged equations. (English summary) **2005m:76174**
Saurel, Richard *see* **Perigaud, Guillaume, 2005k:76113**
Schrefler, B. A. Multiphase flow in deforming porous material. (English summary)
Schwartz, L. W. (*with* Roy, R. V.; Eley, R. R.; Princen, H. M.) Surfactant-driven motion and splitting of droplets on a substrate. (English summary) **2005i:76010**
Sever, Michael *see* **Keyfitz, Barbara Lee et al., 2005j:35154**

Sharipov, F. M. (*with* Gramani Cumin, Liliana M.; Kalempa, Denize) Plane Couette flow of binary gaseous mixture in the whole range of the Knudsen number. (English summary)
Shyue, Keh-Ming A fluid-mixture type algorithm for barotropic two-fluid flow problems. (English summary) **2005e:76062**
Siegel, Michael *see* **Kas-Danouche, S. et al., 2005j:76040**
Siewert, C. E. (*with* Valougeorgis, D.) The McCormack model: channel flow of a binary gas mixture driven by temperature, pressure and density gradients. (English summary) **2005m:76156**
— (*with* Valougeorgis, D.) Concise and accurate solutions to half-space binary-gas flow problems defined by the McCormack model and specular-diffuse wall conditions. (English summary) **2005b:76117**
Simić, Srboljub S. *see* **Ruggeri, Tommaso, 2005f:76087**
de Sousa, F. S. (*with* Mangiavacchi, Norberto; Nonato, L. G.; Castelo, A.; Tomé, M. F.; Ferreira, V. G.; Cuminato, J. A.; McKee, Sean) A front-tracking/front-capturing method for the simulation of 3D multi-fluid flows with free surfaces. (English summary) **2005b:76099**
Spelt, Peter D. M. A level-set approach for simulations of flows with multiple moving contact lines with hysteresis. (English summary) **2005m:76124**
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Tomé, M. F. *see* **de Sousa, F. S. et al., 2005b:76099**
Trefilina, E. R. *see* **Mal'tseva, T. V.**
Uhlmann, Markus An immersed boundary method with direct forcing for the simulation of particulate flows. (English summary)
Valougeorgis, D. *see* **Siewert, C. E., 2005b:76117** *and* **2005m:76156**
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Vovelle, Julien *see* **Eymard, Robert et al., 2005k:76083**
Walker, Christoph Asymptotic behaviour of liquid-liquid dispersions. (English summary) **2005h:82110**
— On a new model for continuous coalescence and breakage processes with diffusion. (English summary) **2005h:82083**
Wang, Yun (*with* Dindoruk, Birol; Johansen, Thormod; Orr, Franklin M., Jr.) Four-component gas/oil displacements in one dimension. II. Analytical solutions for constant equilibrium ratios. (English summary) **2005m:76172**
— *see also* **Johansen, Thormod et al., 2005m:76171**
Warnecke, Gerald G. *see* **Qamar, Shamsul, 2005a:76113**
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Zhang, Fu *see* **Keyfitz, Barbara Lee et al., 2005j:35154**
Zheng, Xiaoming *see* **Anderson, Anthony et al., 2005m:76130**

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Bresch, Didier (*with* Desjardins, Benoît; Gérard-Varet, David) Rotating fluids in a cylinder. (English summary) **2005e:76083**
— (*with* Gérard-Varet, David) Roughness-induced effects on the quasi-geostrophic model. (English summary) **2005i:76115**
Campbell, L. J. Wave-mean-flow interactions in a forced Rossby wave packet critical layer. (English summary) **2005a:76160**
Charve, Frédéric Global well-posedness and asymptotics for a geophysical fluid system. (English summary) **2005i:76116**
Chashechkin, Yu. D. (*with* Kistovich, A. V.) Classification of three-dimensional periodic motions in a fluid. (Russian) **2005i:76117**
Chen, Da Duan (*with* He, You Hua) On the well-posedness of the initial value problem of non-static rotating fluid. (Chinese. English and Chinese summaries) **2005h:76082**
Daube, O. *see* **Nore, C. et al., 2005a:76162**
Desjardins, Benoît *see* **Bresch, Didier et al., 2005e:76083**
Fernandez-Feria, R. *see* **Sanmiguel-Rojas, E.**
Gañán-Calvo, A. M. (*with* Montanero, J. M.) A note on the small oscillation regimes of rotating liquid bridges: transition from surface to internal wave modes. (English summary) **2005h:76083**
Gérard-Varet, David *see* **Bresch, Didier et al., 2005e:76083** *and* **2005i:76115**
He, Juan Xiong (*with* Yang, Xiu Qun; Yu, Zhi Hao) Well-posedness of the Cauchy problem for barotropic equations with orographic forcing. I. The inviscid case. (Chinese. English and Chinese summaries) **2005f:76104**
— (*with* Yang, Xiu Qun; Yu, Zhi Hao) Well-posedness of the Cauchy problem for barotropic equations with orographic forcing. II. The viscous case. (Chinese. English and Chinese summaries) **2005f:76105**
He, You Hua *see* **Chen, Da Duan, 2005h:76082**
Hu, Changbing Asymptotic analysis of the primitive equations under the small depth assumption. (English summary) **2005k:76135**
Ifidon, E. O. Numerical studies of viscous incompressible flow between two rotating concentric spheres. **2005f:76106**
Iyer, Gautam Transport in viscous rotating fluids. (English summary) **2005k:76136**
Johnson, Edward R. *see* **Vilenski, Gregory Germanovich, 2005f:76107**
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Kistovich, A. V. *see* **Chashechkin, Yu. D., 2005i:76117**
Le Roux, Alain-Yves (*with* LeRoux, Marie-Noëlle; Marti, Jean-André) Un modèle mathématique de cyclone. (English and French summaries) [A mathematical model for hurricanes] **2005h:76085**
LeRoux, Marie-Noëlle *see* **Le Roux, Alain-Yves et al., 2005h:76085**
Liu, Hailiang (*with* Tadmor, Eitan) Rotation prevents finite-time breakdown. (English summary) **2005a:76161**
Marti, Jean-André *see* **Le Roux, Alain-Yves et al., 2005h:76085**
Montanero, J. M. *see* **Gañán-Calvo, A. M., 2005h:76083**
Murthy, K. N. Venkatasiva (*with* Reddy, K. Jayarami) Steady flow generated by the differential rotation of a porous disk of finite thickness. (English summary) **2005i:76118**
Nikishov, V. V. (*with* Khristyuk, R. V.) Analysis of motion of a viscous stratified fluid at presence of rotation. (English summary) **2005b:76133**
Nore, C. (*with* Tuckerman, L. S.; Daube, O.; Xin, Shihe) The 1 : 2 mode interaction in exactly counter-rotating von Kármán swirling flow. (English summary) **2005a:76162**
Paicu, Marius Étude asymptotique pour les fluides anisotropes en rotation rapide dans le cas périodique. (English and French summaries) [Asymptotic study of rapidly rotating anisotropic fluids in the periodic case] **2005b:76134**
Reddy, K. Jayarami *see* **Murthy, K. N. Venkatasiva, 2005i:76118**
Sanmiguel-Rojas, E. (*with* Fernandez-Feria, R.) Nonlinear waves in the pressure driven flow in a finite rotating pipe. (English summary)
Tadmor, Eitan *see* **Liu, Hailiang, 2005a:76161**
Temam, Roger Some mathematical aspects of geophysical fluid dynamic equations. (English summary) **2005j:76093**
Tuckerman, L. S. *see* **Nore, C. et al., 2005a:76162**
Vilenski, Gregory Germanovich (*with* Johnson, Edward R.) Near-critical free-surface rotating flow over topography. (English summary) **2005f:76107**
Wang, Cheng[4] Convergence analysis of the numerical method for the primitive equations formulated in mean vorticity on a Cartesian grid. (English summary) **2005m:76184**
Xin, Shihe *see* **Nore, C. et al., 2005a:76162**
Yang, Xiu Qun *see* **He, Juan Xiong et al., 2005f:76104** *and* **2005f:76105**
Yu, Zhi Hao *see* **He, Juan Xiong et al., 2005f:76104** *and* **2005f:76105**
Yuan, Li[2] Numerical study of multiple periodic flow states in spherical Couette flow. (English summary)

Items with secondary classifications in 76U05

Abd-El-Malek, Mina B. (*with* Helal, M. M.) Characteristic function method for classification of equations of hydrodynamics of a perfect fluid. (English summary) **2005m:76147**
Abshagen, Jan *see* **Langenberg, J. et al.**
Agullo, Olivier (*with* Verga, Alberto) Relaxation towards localized vorticity states in drift plasma and geostrophic flows. (English summary) **2005g:76073**
Ahuja, R. (*with* Belonoshko, A. B.; Johansson, B.; Osiptsov, A. N.) Inertial phase separation in rotating self-gravitating media. (English summary) **2005j:76089**
Albensoeder, Stefan *see* **Kuhlmann, Hendrik C., 2005m:76062**
Alvarez-Lacalle, E. (*with* Ortín, J.; Casademunt, Jaume) Low viscosity contrast fingering in a rotating Hele-Shaw cell. (English summary) **2005a:76064**
Anilkumar, D. (*with* Roy, Satyajit) Unsteady mixed convection flow on a rotating cone in a rotating fluid. (English summary) **2005b:76125**
Ascarelli, T. A. *see* **Cenedese, C. et al., 2005b:86006**
Asghar, Saleem *see* **Hayat, Tasawar et al., 2005a:76168** *and* **2005f:76111**
Attia, Hazem Ali Numerical study of flow and heat transfer of a non-Newtonian fluid on a rotating porous disk. (English summary) **2005h:76003**
Aydemir, A. Y. Magnetohydrodynamic equilibrium and stability of rotating plasmas in a mirror geometry. (English summary) **2005i:76119**
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Baines, P. G. *see* **Smirnov, S. A. et al.**
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Belonoshko, A. B. *see* **Ahuja, R. et al., 2005j:76089**
Berselli, Luigi C. Vanishing viscosity limit and long-time behavior for 2D quasi-geostrophic equations. (English summary) **2005c:35237**
Blundell, Jeffrey R. *see* **Killworth, Peter D., 2005h:86006**
Boyd, John Philip Ostrovsky and Hunter's generic wave equation for weakly dispersive waves: matched asymptotic and pseudospectral study of the paraboloidal travelling waves (corner and near-corner waves). (English summary) **2005m:35251**
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Busse, Friedrich H. On thermal convection in slowly rotating systems. (English summary) **2005e:76041**
Camassa, Roberto *see* **Choi, Wooyoung et al., 2005e:76042**
Cambon, C. (*with* Rubinstein, Robert; Godeferd, F. S.) Advances in wave turbulence: rapidly rotating flows. (English summary) **2005i:76070**
Canuto, Vittorio M. *see* **Dubovikov, Mikhail S., 2005m:86007**
Casademunt, Jaume *see* **Alvarez-Lacalle, E. et al., 2005a:76064**
Cenedese, C. (*with* Whitehead, J. A.; Ascarelli, T. A.; Ohiwa, M.) A dense current flowing down a sloping bottom in a rotating fluid. (English summary) **2005b:86006**
Chacón-Rebollo, Tomás (*with* Rodríguez Gómez, David) Numerical investigation of the regularity of the pressure for the primitive equations of the ocean. (English summary) **2005h:86004**
— (*with* Rodríguez Gómez, David) A stabilized space-time discretization for the primitive equations in oceanography. (English summary) **2005g:86005**
Chen, Zhi-Min (*with* Price, W. G.) Bifurcating periodic solutions of the wind-driven circulation equations. (English summary) **2005m:76089**
Chesnokov, Aleksandr Aleksandrovich *see* **Teshukov, Vladimir et al., 2005i:76021**
Chkhetiani, O. G. Vorticity intensification in turbulent flows with helicity. (Russian. Russian summary) **2005k:86011**
Choi, Wooyoung (*with* Prasad, Dilip; Camassa, Roberto; Ecke, Robert E.) Traveling waves in rotating Rayleigh-Bénard convection. (English summary) **2005e:76042**
Chulliat, Arnaud (*with* Loper, David E.; Shimizu, Hisayoshi) Buoyancy-driven perturbations in a rapidly rotating, electrically conducting fluid. III. Effect of the Lorentz force. (English summary) **2005g:76128**
Córdoba, Antonio (*with* Córdoba, Diego) A maximum principle applied to quasi-geostrophic equations. (English summary) **2005f:76011**
Córdoba, Diego *see* **Córdoba, Antonio, 2005f:76011**
Cotter, Colin John (*with* Frank, Jason; Reich, Sebastian) Hamiltonian particle-mesh method for two-layer shallow-water equations subject to the rigid-lid approximation. (English summary) **2005a:76120**
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Danilov, Sergey (*with* Gurarie, David) Scaling, spectra and zonal jets in beta-plane turbulence. (English summary) **2005b:86025**
Davidson, P. A. *see* **Siso-Nadal, F., 2005a:86011**
Desjardins, Benoît (*with* Dormy, Emmanuel; Grenier, Emmanuel) Boundary layer instability at the top of the Earth's outer core. (English summary) **2005b:86039**

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Duan, Jin Qiao *see* **Gao, Hong Jun, 2005e:35096**
Dubovikov, Mikhail S. (*with* Canuto, Vittorio M.) Dynamic model of mesoscale eddies. Eddy parameterization for coarse resolution ocean circulation models. (English summary) **2005m:86007**
Duguet, Y. (*with* Scott, Julian F.; Le Penven, L.) Destabilization of inertial waves in a rotating cylinder. (English summary) (*see* **2005b:00020**)
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El Massoud, Mostafa On solvability of a parabolic system arising in physical oceanography. (English summary) **2005h:35279**
Elperin, Tov (*with* Golubev, Ilia; Kleeorin, Nathan; Rogachevskii, Igor) Excitation of large-scale inertial waves in a rotating inhomogeneous turbulence. (English summary) **2005k:76047**
Emamizadeh, B. (*with* Bahrami, F.; Mehrabi, M. H.) Steiner symmetric vortices attached to seamounts. (English summary)
Evans, P. L. (*with* Schwartz, L. W.; Roy, R. V.) Steady and unsteady solutions for coating flow on a rotating horizontal cylinder: two-dimensional theoretical and numerical modeling. (English summary)
Ferrari, Stefania (*with* Saleri, Fausto) A new two-dimensional shallow water model including pressure effects and slow varying bottom topography. (English summary) **2005e:76029**
Fournier, Alexandre (*with* Bunge, Hans-Peter; Hollerbach, Rainer; Vilotte, Jean-Pierre) A Fourier-spectral element algorithm for thermal convection in rotating axisymmetric containers. (English summary) **2005k:76090**
Frank, Jason *see* **Cotter, Colin John et al., 2005a:76120**
Friedlander, Susan J. (*with* Shvydkoy, Roman) The unstable spectrum of the surface quasi-geostropic equation. (English summary) **2005m:76090**
Gaite, José Anisotropy in homogeneous rotating turbulence. (English summary) **2005a:76093**
Gao, Hong Jun (*with* Duan, Jin Qiao) Dynamics of a coupled atmosphere-ocean model. (English summary) **2005e:35096**
— (*with* Duan, Jin Qiao) Averaging principle for quasi-geostrophic motion under rapidly oscillating forcing. (Chinese. English and Chinese summaries)
Godeferd, F. S. *see* **Cambon, C. et al., 2005i:76070**
Golubev, Ilia *see* **Elperin, Tov et al., 2005k:76047**
Grenier, Emmanuel Boundary layers. **2005j:76036**
— *see also* **Desjardins, Benoît et al., 2005b:86039**
Griffies, Stephen M. ★ Fundamentals of ocean climate models. **2005d:86003**
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Hassam, A. B. *see* **Huang, Yi-Min[1], 2005b:76064**
Hayat, Tasawar (*with* Hameed, M. I.; Asghar, Saleem; Siddiqui, Abdul Majeed) Some steady MHD flows of the second order fluid. (English summary) **2005a:76168**
— (*with* Hutter, Kolumban; Nadeem, Sohail; Asghar, Saleem) Unsteady hydromagnetic rotating flow of a conducting second grade fluid. (English summary) **2005f:76111**
— Oscillatory solution in rotating flow of a Johnson-Segalman fluid. (English summary) **2005k:76009**
Helal, M. M. *see* **Abd-El-Malek, Mina B., 2005m:76147**
Hollerbach, Rainer *see* **Fournier, Alexandre et al., 2005k:76090**
Holm, Darryl D. (*with* Marsden, Jerrold E.; Ratiu, Tudor S.) The Euler-Poincaré equations in geophysical fluid dynamics. **2005c:37167**
Huang, Yi-Min[1] (*with* Hassam, A. B.) Resistive magnetohydrodynamic equilibrium and stability of a rotating plasma with particle sources. (English summary) **2005b:76064**
Hughes, David W. *see* **Kim, Eun-Jin et al., 2005b:76142**
Hutter, Kolumban *see* **Hayat, Tasawar et al., 2005f:76111**
Ipatova, V. M. Solvability of a tide dynamics model in adjacent seas. (English summary) **2005m:86008**
Ishihara, Norio (*with* Kida, Shigeo) Excitation of polar thermal convection in a rotating spherical shell. (English summary)
Izrailsky, Yu. G. (*with* Kozlov, V. F.; Koshel′, K. V.) Some specific features of chaotization of the pulsating barotropic flow over elliptic and axisymmetric sea-mounts. (English summary) **2005c:76023**
Jacobson, Tivon E. (*with* Tabak, Esteban G.) Standing shocks in a rotating channel. (English summary) **2005f:76015**
Jauberteau, F. (*with* Temam, Roger) Estimates based on scale separation for geophysical flows. (English and Spanish summaries) **2005b:86001**
Johansson, B. *see* **Ahuja, R. et al., 2005j:76089**
Ju, Ning The maximum principle and the global attractor for the dissipative 2D quasi-geostrophic equations. (English summary) **2005m:37194**
Kaladze, T. (*with* Rogava, Dzh. L.; Tsamalashvili, L.; Tsiklauri, Mikheil) Implicit difference schemes for the Charney-Obukhov equation. (English and Georgian summaries) **2005b:86030**
Kawahara, Genta *see* **Yanase, Shinichiro et al.**
Kay, Anthony Inertial oscillations and frontogenesis driven by a quadratic horizontal density variation. (English summary) **2005g:86006**
Khayat, Roger E. *see* **Li, Zhenyu, 2005e:76044**
Kholshevnikov, Konstantin V. (*with* Kurdubov, Sergei L.) Convergence of Liapunov series for Huygens-Roche figures. (English summary) **2005a:70013**
— (*with* Kurdubov, Sergei L.) Errata: "Convergence of Liapunov series for Huygens-Roche figures" [Celestial Mech. Dynam. Astronom. **89** (2004), no. 1, 83–96; MR2063968 (2005a:70013)].
Kida, Shigeo *see* **Yanase, Shinichiro et al.** *and* **Ishihara, Norio**
Killworth, Peter D. (*with* Blundell, Jeffrey R.) The dispersion relation for planetary waves in the presence of mean flow and topography. I. Analytical theory and one-dimensional examples. (English summary) **2005h:86006**
Kim, Eun-Jin (*with* Hughes, David W.; Soward, Andrew M.) A nonlinear dynamo driven by rapidly rotating convection. (English summary) **2005b:76142**
Klaassen, G. P. *see* **Yau, K.-H. et al., 2005b:76062**
Kleeorin, Nathan *see* **Elperin, Tov et al., 2005k:76047**
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Kozlov, V. F. *see* **Izrailsky, Yu. G. et al., 2005c:76023**
Kuhlmann, Hendrik C. (*with* Albensoeder, Stefan) Strained vortices in driven cavities. (English summary) **2005m:76062**
Kumari, Mahesh (*with* Nath, G. Baikunth) Transient MHD rotating flow over a rotating sphere in the vicinity of the equator. (English summary)
Kurdubov, Sergei L. *see* **Kholshevnikov, Konstantin V., 2005a:70013**
Kyrychko, Yuliya N. (*with* Bartuccelli, Michele V.) Length scales for the Navier-Stokes equations on a rotating sphere. (English summary) **2005g:76027**
Laanearu, Janek (*with* Lundberg, Peter) Analysis and improvement of a perturbation solution for hydraulic flow in a rotating parabolic channel. (English summary) **2005m:76085**
Langenberg, J. (*with* Pfister, Gerd; Abshagen, Jan) The effect of physical boundaries on oscillatory bifurcation in counterrotating Taylor-Couette flow. (English summary)
Lawrence, Chris J. *see* **Matar, Omar K. et al.**
Le Penven, L. *see* **Duguet, Y. et al., (2005b:00020)**
Li, Kai Tai *see* **Wang, He Yuan et al., 2005a:76115; 2005e:76034** *and* **2005i:65150**
Li, Zhenyu (*with* Khayat, Roger E.) Pattern formation in weakly forced Taylor-Couette flow. (English summary) **2005e:76044**
Linares, Felipe (*with* Milanés, Aniura) A note on solutions to a model for long internal waves in a rotating fluid. (English summary) **2005k:35337**
Liu, Yue[1] (*with* Varlamov, Vladimir) Stability of solitary waves and weak rotation limit for the Ostrovsky equation. (English summary) **2005f:76022**
Liu, Yusong *see* **Tong, Dengke, 2005i:76005**
Loper, David E. *see* **Chulliat, Arnaud et al., 2005g:76128**
Lundberg, Peter *see* **Laanearu, Janek, 2005m:76085**
Luo, Tao[2] (*with* Smoller, Joel) Rotating fluids with self-gravitation in bounded domains. (English summary) **2005g:85002**
Lvov, Yuri V. (*with* Tabak, Esteban G.) A Hamiltonian formulation for long internal waves. (English summary) **2005e:76027**
Marsden, Jerrold E. *see* **Holm, Darryl D. et al., 2005c:37167**
Martin Witkowski, L. *see* **Walker, John S., 2005b:76065**
Matar, Omar K. (*with* Sisoev, G. M.; Lawrence, Chris J.) Erratum: "Evolution scales for wave regimes in liquid film flow over a spinning disk" [Phys. Fluids **16** (2004), no. 5, 1532–1545; MR2059457].
McCann, Robert J. (*with* Oberman, Adam M.) Exact semi-geostrophic flows in an elliptical ocean basin. (English summary) **2005g:37164**
McDonald, N. Robb A new translating quasigeostrophic V-state. (English summary) **2005m:86009**
(McDougall, Trevor J.) *see* **Griffies, Stephen M., 2005d:86003**
McWilliams, James C. (*with* Molemaker, M. Jeroen; Yavneh, Irad) Ageostrophic, anticyclonic instability of a geostrophic, barotropic boundary current. (English summary) **2005e:86004**
Mehrabi, M. H. *see* **Emamizadeh, B. et al.**
Miklavčič, Milan Layered Von Kármán's swirling flow. (English summary) **2005f:76031**
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Osiptsov, A. N. *see* **Ahuja, R. et al., 2005j:76089**
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Pérez-García, Ismael *see* **Skiba, Yuri N., 2005j:76043**
Perova, L. V. Propagation of disturbances produced by a wave traveling over an inclined bottom in a rotating stratified fluid. (Russian. Russian summary) **2005a:76028**
Petcu, Madalina Gevrey class regularity for the primitive equations in space dimension 2. (English summary) **2005g:35248**
— (*with* Temam, Roger; Wirosoetisno, D.) Renormalization group method applied to the primitive equations. (English summary) **2005m:35242**
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Phukan, D. K. (*with* Saroa, M. S.) Hydromagnetic Couette flow of a dusty fluid in a rotating frame of reference. (English summary) **2005i:76125**
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Price, W. G. *see* **Chen, Zhi-Min, 2005m:76089**
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Reich, Sebastian *see* **Cotter, Colin John et al., 2005a:76120**
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Roussier-Michon, Violaine Existence et comportement asymptotique en temps des solutions de Navier-Stokes Coriolis dans une bande tridimensionnelle. [Existence and asymptotic behavior in time of the Navier-Stokes Coriolis solutions in a three-dimensional layer] **2005j:35172**

Roy, R. V. *see* **Evans, P. L. et al.**
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Rozanova, Olga S. Note on the typhoon eye trajectory. (English summary) **2005f:86007**
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Schwartz, L. W. *see* **Evans, P. L. et al.**
Scott, Julian F. *see* **Duguet, Y. et al., (2005b:00020)**
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Sisoev, G. M. *see* **Matar, Omar K. et al.**
Siso-Nadal, F. (*with* Davidson, P. A.) Anisotropic evolution of small isolated vortices within the core of the Earth. (English summary) **2005a:86011**
Skiba, Yuri N. (*with* Pérez-García, Ismael) On the structure and growth rate of unstable modes to the Rossby-Haurwitz wave. (English summary) **2005j:76043**
Smirnov, S. A. (*with* Baines, P. G.; Boyer, Don L.; Voropaev, S. I.; Srdic-Mitrovic, A. N.) Long-time evolution of linearly stratified spin-up flows in axisymmetric geometries. (English summary)
Smoller, Joel *see* **Luo, Tao[2], 2005g:85002**
Sokolovskiĭ, M. A. (*with* Verron, J.) Dynamics of three vortices in a two-layer rotating fluid. (English summary) **2005j:76022**
Solonnikov, Vsevolod Alekseevich On the stability of axisymmetric equilibrium figures of a rotating viscous incompressible fluid. (Russian. Russian summary) **2005d:76016**
— On the stability of nonsymmetric equilibrium figures of a rotating viscous incompressible liquid. (English summary) **2005h:76032**
— The problem on evolution of a self-gravitating isolated fluid mass that is not subject to the surface tension forces. (English summary) **2005f:35337**
Sone, Yoshio (*with* Doi, Toshiyuki) Bifurcation analysis of cylindrical Couette flow with evaporation and condensation by the Boltzmann equation. (English summary) **2005a:34075**
— (*with* Doi, Toshiyuki) Ghost effect of infinitesimal curvature in the plane Couette flow of a gas in the continuum limit. (English summary) **2005a:76141**
Sonmor, L. J. *see* **Yau, K.-H. et al., 2005b:76062**
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Sudakov, S. N. On the oscillations of rotating gravitating liquid ellipsoids of variable viscosity. (Russian. Russian summary) **2005m:76052**
Swaters, Gordon On the meridional flow of source-driven abyssal currents along a continental slope. (English summary) (*see* **2005b:76003**)
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Temam, Roger (*with* Ziane, Mohammed) Some mathematical problems in geophysical fluid dynamics. (English summary) **2005h:35275**
— *see also* **Jauberteau, F., 2005b:86001** *and* **Petcu, Madalina et al., 2005m:35242**
Teshukov, Vladimir (*with* Russo, Giovanni; Chesnokov, Aleksandr Aleksandrovich) Analytical and numerical solutions of the shallow water equations for 2D rotational flows. (English summary) **2005i:76021**
Tong, Dengke (*with* Liu, Yusong) Exact solutions for the unsteady rotational flow of non-Newtonian fluid in an annular pipe. (English summary) **2005i:76005**
Tsamalashvili, L. *see* **Kaladze, T. et al., 2005b:86030**
Tsiklauri, Mikheil *see* **Kaladze, T. et al., 2005b:86030**
Türkyılmazoğlu, M. Lower branch modes of the compressible boundary layer flow due to a rotating-disk. (English summary) **2005h:76033**
— (*with* Uygun, N.) Compressible modes of the rotating-disk boundary-layer flow leading to absolute instability. (English summary) **2005m:76153**
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Varlamov, Vladimir *see* **Liu, Yue[1], 2005f:76022**
Vempaty, Somaraju (*with* Satyamurty, Prakki) Rotating hydromagnetic flow in the presence of a horizontal magnetic field. (English summary) **2005e:76090**
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Voropaev, S. I. *see* **Smirnov, S. A. et al.**
Walker, John S. (*with* Martin Witkowski, L.) Linear stability analysis for a rotating cylinder with a rotating magnetic field. (English summary) **2005b:76065**
Wang, Cheng[4] The primitive equations formulated in mean vorticity. (English summary) **2005g:86010**
Wang, He Yuan (*with* Li, Kai Tai) Spectral Galerkin approximation of Couette-Taylor flow. (Chinese. English and Chinese summaries) **2005i:65150**
— (*with* Li, Kai Tai) Numerical simulation of spherical Couette flow. (English summary) **2005e:76034**
— (*with* Li, Kai Tai; Zhang, Yindi) Spectral approximation of TB point of the Navier-Stokes equations in two concentric rotating spheres. (English summary) **2005a:76115**
— (*with* Ding, Su Zhen; Xi, Zhu You) Numerical simulation of spherical Couette flow. (Chinese. English and Chinese summaries)
Waters, S. L. (*with* Cummings, Linda Jane) Coriolis effects in a rotating Hele-Shaw cell. (English summary) **2005m:76070**
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Wu, Jiahong Global solutions of the 2D dissipative quasi-geostrophic equation in Besov spaces. (English summary) **2005i:76014**
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Xi, Zhu You *see* **Wang, He Yuan et al.**
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Yanase, Shinichiro (*with* Tanaka, Mitsuru[2]; Kida, Shigeo; Kawahara, Genta) Generation and sustenance mechanisms of coherent vortical structures in rotating shear turbulence of zero-mean-absolute vorticity. (English summary)
Yau, K.-H. (*with* Klaassen, G. P.; Sonmor, L. J.) Principal instabilities of large amplitude inertio-gravity waves. (English summary) **2005b:76062**
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Carey, Graham F. (*with* Fowkes, Neville; Staelens, Amanda; Pardhanani, Anand) A class of coupled nonlinear reaction diffusion models exhibiting fingering. (English summary) **2005a:76163**
Chen, Gui Qiang (*with* Hoff, David; Trivisa, Konstantina) Analysis on a model for the dynamic combustion of a compressible, reacting fluid. (English summary) **2005a:76164**
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Liang, Zhe (*with* Khastoo, B.; Bauwens, Luc) Effect of reaction order on stability of planar detonation waves. (English summary)
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— (*with* Kalliadasis, Serafim) Dynamics of a reactive falling film at large Péclet numbers. II. Nonlinear waves far from criticality: integral-boundary-layer approximation. (English summary) **2005c:76087**
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Angelberger, C. *see* **Moureau, V. et al., 2005m:76138**
Aregba-Driollet, D. (*with* Diele, Fasma; Natalini, Roberto) A mathematical model for the sulphur dioxide aggression to calcium carbonate stones: numerical approximation and asymptotic analysis. (English summary) **2005g:65120**
Arnau, J. M. (*with* Company, R.; Roselló, M. D.; Climent, H.) A collocation method to compute one-dimensional flow models in intake and exhaust systems of internal combustion engines. (English summary) **2005k:65207**
Azarenok, Boris N. (*with* Tang, Tao) Second-order Godunov-type scheme for reactive flow calculations on moving meshes. (English summary) **2005k:76086**
Bause, Markus (*with* Knabner, Peter) Numerical simulation of contaminant biodegradation by higher order methods and adaptive time stepping. (English summary) **2005f:76063**
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Becker, Roland (*with* Braack, Malte; Vexler, Boris) Numerical parameter estimation for chemical models in multidimensional reactive flows. (English summary) **2005g:80012**
Belhadj, Mohamed[2] (*with* Gerbeau, J.-F.; Perthame, Benoît) A multiscale colloid transport model with anisotropic degenerate diffusion. (English summary) **2005f:35160**
Belk, Michaël (*with* Vol'pert, Vit. A.) Modeling of heat explosion with convection. (English summary) **2005a:80004**
Berestycki, Henri (*with* Kagan, Leonid; Kamin, Shoshana; Sivashinsky, Gregory) Metastable behavior of premixed gas flames in rectangular channels. (English summary) **2005m:80006**
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Biagioli, Fernando Position, thickness and transport properties of turbulent premixed flames in stagnating flows. (English summary) **2005f:80007**
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Braack, Malte (*with* Ern, Alexandre) Adaptive computation of reactive flows with local mesh refinement and model adaptation. (English summary) **2005j:65137**
— (*with* Ern, Alexandre) Coupling multimodelling with local mesh refinement for the numerical computation of laminar flames. (English summary) **2005g:80013**
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Company, R. *see* **Arnau, J. M. et al., 2005k:65207**
Conca, Carlos (*with* Díaz Díaz, Jesús Ildefonso; Liñán, Amable; Timofte, Claudia) Homogenization in chemical reactive flows. (English summary) **2005a:35023**
Conforto, Fiammetta (*with* Jannelli, A.; Monaco, Roberto; Ruggeri, Tommaso) On the Riemann problem for a reacting mixture of gases. (English summary) (*see* **2005c:00016**)
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Desvillettes, Laurent (*with* Monaco, Roberto; Salvarani, F.) A kinetic model allowing to obtain the energy law of polytropic gases in the presence of chemical reactions. (English summary) **2005k:80011**
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Fort, Joaquim (*with* Campos, Daniel; González, Josep R.; Velayos, Joaquim) Bounds for the propagation speed of combustion flames. (English summary) **2005f:80010**
Fujimoto, Koichi (*with* Kaneko, Kunihiko) Convective instability with time scale translation of the transmitted fluctuation. (English summary) **2005e:76045**
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Giovangigli, Vincent (*with* Massot, Marc) Entropic structure of multicomponent reactive flows with partial equilibrium reduced chemistry. (English summary) **2005b:80011**
Glasman, E. A. (*with* Golovin, Alexander A.; Nepomnyashchy, Alexander A.) Instabilities of wavy patterns governed by coupled Burgers equations. (English summary) **2005i:35244**
Godunov, Sergeĭ Konstantinovich A Galilean-invariant and thermodynamically consistent model of a composite isotropic medium. (Russian. Russian summary) **2005d:76043**
Goldfarb, Igor (*with* Gol′dshtein, Vladimir; Maas, Ulrich) Comparative analysis of two asymptotic approaches based on integral manifolds. (English summary) **2005f:80011**
— *see also* **Bykov, Viatcheslav et al., 2005f:80008**
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Golfier, F. (*with* Bazin, B.; Lenormand, R.; Quintard, M.) Core-scale description of porous media dissolution during acid injection. I. Theoretical development. (English summary)
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Gordon, Peter V. (*with* Ryzhik, Leonid; Vladimirova, Natalia) The KPP system in a periodic flow with a heat loss. (English summary) **2005i:35141**
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— (*with* Spiga, Giampiero) A Bhatnagar-Gross-Krook-type approach for chemically reacting gas mixtures. (English summary) **2005f:76088**
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Jabbour, Michel E. (*with* Bhattacharya, Kaushik) A continuum theory of multispecies thin solid film growth by chemical vapor deposition. (English summary) **2005b:74099**
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— *see also* **Cattani, Carlo, 2005a:76152**
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— *see also* **Desvillettes, Laurent et al., 2005k:80011** *and* **Conforto, Fiammetta et al., (2005c:00016)**
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Pandolfi Bianchi, M. (*with* Soares, A. J.) Kinetic approach to transport properties of a reacting gas. (English summary) (*see* **2005c:00016**)
— *see also* **Monaco, Roberto et al., (2005c:00016)**
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Erkaev, N. V. (*with* Shaidurov, V. A.; Semenov, Vladimir S.; Langmayr, D.; Biernat, H. K.) Peculiarities of Alfvén wave propagation along a nonuniform magnetic flux tube. (English summary) **2005h:76086**
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— (*with* Naz, R.; Asghar, Saleem) Hall effects on unsteady duct flow of a non-Newtonian fluid in a porous medium. (English summary) **2005c:76091**
— (*with* Ellahi, R.; Asghar, Saleem) Unsteady periodic flows of a magnetohydrodynamic fluid due to noncoaxial rotations of a porous disk and a fluid at infinity. (English summary) **2005e:76088**
— (*with* Hameed, M. I.; Asghar, Saleem; Siddiqui, Abdul Majeed) Some steady MHD flows of the second order fluid. (English summary) **2005a:76168**
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Kravchenko, Vladislav V. On force free magnetic fields. Quaternionic approach. (English summary) **2005h:76089**

Kumar, Deepak[2] (*with* Singh, M. P.; Kumar, Rajendra) Steady plane flow of orthogonal MHD fluids. (English summary)

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Kumar, Rajendra *see* **Kumar, Deepak**[2] **et al.** *and* **Sahu, Ruchi et al.**

Kumari, Mahesh (*with* Nath, G. Baikunth) Transient MHD rotating flow over a rotating sphere in the vicinity of the equator. (English summary)

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Lei, Zhen[1] Blow-up of classical solutions to the ideal magnetohydrodynamic equations with initial disturbances. (Chinese. English and Chinese summaries) **2005m:76189**

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Matsui, Hiroaki (*with* Okuda, Hiroshi) MHD dynamo simulation using the GeoFEM platform—verification by the dynamo benchmark test. (English summary)

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Müller, Ulrich[1] (*with* Stieglitz, R.; Busse, Friedrich H.) On the sensitivity of dynamo action to the system's magnetic diffusivity. (English summary) **2005f:76114**

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Nath, G. Baikunth *see* **Kumari, Mahesh**

Naz, R. *see* **Hayat, Tasawar et al., 2005c:76091**

Ng, C. S. *see* **Bhattacharjee, Amitava et al.**

Oh, Wonho *see* **Samulyak, Roman et al.**, (**2005g:65008**)

Ohsaki, Shuichi (*with* Yoshida, Zensho) Variational principle with singular perturbation of Hall magnetohydrodynamics. (English summary) **2005m:76190**

— *see also* **Yoshida, Zensho et al., 2005g:76132**

Okuda, Hiroshi *see* **Matsui, Hiroaki**

Papageorgiou, Demetrios T. (*with* Vanden-Broeck, Jean-Marc) Antisymmetric capillary waves in electrified fluid sheets. (English summary) **2005m:76191**

Parker, E. N. Tangential discontinuities in untidy magnetic topologies. (English summary) **2005a:76170**

Passot, T. (*with* Sulem, P. L.) A Landau fluid model for dispersive magnetohydrodynamics. (English summary) **2005i:76124**

— *see also* **Kuznetsov, Evgeniĭ Aleksandrovich**[1] **et al., 2005a:76169**

Patsegon, N. F. (*with* Popova, L. N.) Wave structures in magnetic fluid. (English summary) **2005d:76045**

Perdikis, C. *see* **Raptis, A. A. et al., 2005a:76172**

Phukan, D. K. (*with* Saroa, M. S.) Hydromagnetic Couette flow of a dusty fluid in a rotating frame of reference. (English summary) **2005i:76125**

Phung, Kim Dang Stabilization of the incompressible 2D Euler equations in a simply connected domain utilizing the Lorentz force. (English summary) **2005i:76126**

Picard, Phillipe Lucien *see* **Grundland, A. M., 2005b:76141**

Pontin, D. I. (*with* Hornig, Gunnar; Priest, E. R.) Kinematic reconnection at a magnetic null point: fan-aligned current. (English summary) **2005i:76127**

Popova, L. N. *see* **Patsegon, N. F., 2005d:76045**

Priest, E. R. *see* **Pontin, D. I. et al., 2005i:76127** *and* **Wilmot-Smith, A. L. et al., 2005k:76141**

Proctor, M. R. E. An extension of the toroidal theorem. (English summary) **2005a:76171**

Rahman, M. *see* **Aziz, A. et al.**

Raptis, A. A. (*with* Perdikis, C.; Takhar, H. S.) Effect of thermal radiation on MHD flow. (English summary) **2005a:76172**

Reddy, P. Raj Studies on kinetic and kinematics aspects of magneto fluid flows. (English summary)

Reiman, A. H. *see* **Smith, David R., 2005c:76093**

Ricca, Renzo L. Inflexional disequilibrium of magnetic flux-tubes. (English summary) **2005m:76192**

Roche, Olivia M. *see* **Gleeson, James P. et al., 2005a:76167**

Rogers, Colin (*with* Schief, Wolfgang Karl) Vortex trains in super-Alfvénic magnetogasdynamics. Application of reciprocal-Bäcklund transformations. (English summary) **2005h:76090**

Ruderman, Michael (*with* Simpson, D.) Absolute and convective instabilities of parallel propagating circularly polarized Alfvén waves: decay instability. (English summary) **2005f:76115**

Sahu, Ruchi (*with* Singh, M. P.; Kumar, Rajendra) Transient free-convection flow through magnetic field. (English summary)

Samulyak, Roman (*with* Glimm, James; Oh, Wonho; Kirk, Harold; McDonald, Kirk) Numerical simulation of free surface MHD flows: Richtmyer-Meshkov instability and applications. (English summary) (*see* **2005g:65008**)

Saramito, B. *see* **Berroukeche, M. et al., 2005b:76135**

Saroa, M. S. *see* **Phukan, D. K., 2005i:76125**

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Schmidt, Paul Günter *see* **Charina, Maria et al., 2005f:76110**

Sekhar, T. V. S. (*with* Sivakumar, R.; Kumar, Harish) Numerical study of the steady flow past a sphere in an aligned magnetic field. (English summary) **2005i:76128**

Semenov, Vladimir S. *see* **Erkaev, N. V. et al., 2005h:76086**

Shah, Rajesh C. (*with* Bhat, M. V.) Ferrofluid squeeze film between curved annular plates including rotation of magnetic particles. (English summary)

Shaidurov, V. A. *see* **Erkaev, N. V. et al., 2005h:76086**

Sharma, Pawan Kumar[2] (*with* Chaudhary, R. C.) Magnetohydrodynamics effect on three-dimensional viscous incompressible flow between two horizontal parallel porous plates and heat transfer with periodic injection/suction. (English summary) **2005k:76139**

Sheretov, Yu. V. *see* **Elizarova, T. G. et al., 2005b:76137**

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Siddiqui, Abdul Majeed *see* **Hayat, Tasawar et al., 2005a:76168**

Sikka, Himanshu (*with* Kumar, Nagendra; Zhelyazkov, Ivan) Surface wave propagation in an ideal Hall-magnetohydrodynamic plasma jet in flowing environment. (English summary) **2005h:76091**

Simpson, D. *see* **Ruderman, Michael, 2005f:76115**

Singh, K. D. Influence of moving magnetic field on three dimensional Couette flow. (English summary)

Singh, M. P. *see* **Kumar, Deepak**[2] **et al.** *and* **Sahu, Ruchi et al.**

Singh, R. A. *see* **Mishra, R. B. et al., 2005i:76123**

Sivakumar, R. *see* **Sekhar, T. V. S. et al., 2005i:76128**

Smith, David R. (*with* Reiman, A. H.) Analytic, high-β solutions of the helical Grad-Shafranov equation. (English summary) **2005c:76093**

Sneyd, A. D. *see* **Fautrelle, Y., 2005g:76130**

Sokolov, D. D. *see* **Willis, Ashley P. et al., 2005a:76174**

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Stratis, Ioannis G. *see* **Frantzeskakis, Dimitri J. et al., 2005a:76166**

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Tassi, Emanuele *see* **Titov, Vyacheslav S. et al., 2005f:76116**

Tilgner, A. Small scale kinematic dynamos: beyond the α-effect. (English summary) **2005a:76173**

Titov, Vyacheslav S. (*with* Tassi, Emanuele; Hornig, Gunnar) Exact solutions for steady reconnective annihilation revisited. (English summary) **2005f:76116**

Tobias, Steve *see* **Julien, Keith et al., 2005i:76122**

Trakhinin, Yu. L. On the existence of incompressible current-vortex sheets: study of a linearized free boundary value problem. (English summary) **2005k:76140**

Vanden-Broeck, Jean-Marc *see* **Papageorgiou, Demetrios T., 2005m:76191**

Vempaty, Somaraju (*with* Satyamurty, Prakki) Rotating hydromagnetic flow in the presence of a horizontal magnetic field. (English summary) **2005e:76090**

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West, Jonathan *see* **Gleeson, James P. et al., 2005a:76167**

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Wilmot-Smith, A. L. (*with* Priest, E. R.; Hornig, Gunnar) Magnetic diffusion and the motion of field lines. (English summary) **2005k:76141**

Yannacopoulos, Athanasios N. *see* **Frantzeskakis, Dimitri J. et al., 2005a:76166**

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— *see also* **Ohsaki, Shuichi, 2005m:76190**

Zakaria, M. Magnetohydrodynamic viscoelastic boundary layer flow past a stretching plate and heat transfer. (English summary) **2005b:76143**

— *see also* **Ezzat, Magdy A. et al., 2005b:76138**

Zheligovskīĭ, V. A. Convective plan-form of two-scale dynamos in a plane layer. (English summary) **2005k:76142**

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Zherikov, A. V. *see* **Elizarova, T. G. et al., 2005b:76137**

Items with secondary classifications in 76W05

Abd-El-Malek, Mina B. *see* **Helal, M. M., 2005f:76081**

Abdel-Rahman, Gamal M. Flow of a non-Newtonian power law through a conical bearing in an applied magnetic field. (English summary) **2005g:76035**

Abo-Eldahab, Emad M. (*with* El Aziz, Mohamed A.) Flow and heat transfer in a micropolar fluid past a stretching surface embedded in a non-Darcian porous medium with uniform free stream. (English summary) **2005g:76113**

Acerbi, E. (*with* Mingione, Giuseppe; Serëgin, G. A.) Regularity results for parabolic systems related to a class of non-Newtonian fluids. (English and French summaries) **2005a:35118**

Ajadi, Suraju Olusegun A note on the unsteady flow of dusty viscous fluid between two parallel plates. (English summary) **2005m:76076**

Akers, R. J. *see* **Kostomarov, Dmitriĭ Pavlovich et al.**

Alame, Wisam (*with* Zajączkowski, Wojciech M.) Global existence of solutions for incompressible magnetohydrodynamic equations. (English summary)

Alekseev, G. V. Control problems for stationary equations of magnetohydrodynamics. (Russian)

Arminjon, P. (*with* Touma, R.) Central finite volume methods with constrained transport divergence treatment for ideal MHD. (English summary) **2005k:76081**

Arratia, P. E. (*with* Voth, Greg A.; Gollub, J. P.) Stretching and mixing of non-Newtonian fluids in time-periodic flows. (English summary) **2005m:76010**

Asghar, Saleem *see* **Hayat, Tasawar et al., 2005m:76012**

Ashwin, Peter (*with* Rucklidge, Alastair M.; Sturman, Rob) Two-state intermittency near a symmetric interaction of saddle-node and Hopf bifurcations: a case study from dynamo theory. (English summary) **2005e:37200**

Attia, Hazem Ali (*with* Sayed-Ahmed, Mohamed Eissa) Non-Newtonian conducting fluid flow and heat transfer due to a rotating disk. (English summary) **2005e:76001**

Ayub, M. *see* **Hayat, Tasawar et al., 2005f:76007**

Baaijens, Frank P. T. *see* **Huyghe, Jacques M. et al., 2005m:76209**

Balassas, Konstantinos G. *see* **Kalpakidis, V. K., 2005d:76033**

Balbás, Jorge (*with* Tadmor, Eitan; Wu, Cheng-Chin) Non-oscillatory central schemes for one- and two-dimensional MHD equations. I. (English summary) **2005f:76070**

Balsara, D. S. *see* **Torrilhon, Manuel, 2005g:65127**

Beveridge, C. (*with* Priest, E. R.; Brown, D. S.) Magnetic topologies in the solar corona due to four discrete photospheric flux regions. (English summary) **2005f:85002**

Bildhauer, Michael (*with* Fuchs, Martin[2]) A regularity result for stationary electrorheological fluids in two dimensions. (English summary) **2005f:35253**

Blackman, Eric G. Bihelical magnetic relaxation and large scale magnetic field growth. (English summary) **2005h:76093**

Bogoyavlenskii, Oleg I. Infinite families of exact periodic solutions to the Navier-Stokes equations. (English and Russian summaries) **2005b:35217**

Borgogno, D. (*with* Grasso, Daniela; Porcelli, Franco; Califano, F.; Pegoraro, F.; Farina, D.) Aspects of three-dimensional magnetic reconnection. (English summary) **2005i:76130**

Boyd, T. J. M. (*with* Sanderson, J. J.) ★ The physics of plasmas. **2005e:82113**

Braginsky, Stanislav (*with* Roberts, Paul H.) On the theory of convection in the Earth's core. **2005g:86022**

Brandenburg, Axel Computational aspects of astrophysical MHD and turbulence. **2005c:85001**

Brenier, Yann (*with* Mauser, Norbert J.; Puel, Marjolaine) Incompressible Euler and e-MHD as scaling limits of the Vlasov-Maxwell system. (English summary) **2005f:35254**

Brenner, Howard *see* **Yariv, Ehud et al., 2005a:76055**

Brigadnov, Igor A. (*with* Dorfmann, Al) Mathematical modeling of magnetorheological fluids. (English summary) **2005k:76005**

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Brown, D. S. *see* **Beveridge, C. et al., 2005f:85002**

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Callebaut, D. K. *see* **Khater, A. H. et al., 2005h:76039**

Chandran, Pallath (*with* Sacheti, Nirmal C.) Unsteady boundary layer flow of a radiating fluid under the influence of an applied magnetic field. (English summary) **2005h:76076**

Chen, Gui Qiang (*with* Wang, Dehua[1]) Existence and continuous dependence of large solutions for the magnetohydrodynamic equations. (English summary) **2005b:35227**

Chen, Zhan (*with* Tan, Zhong) Continuous dependence on the initial-time geometry for a parabolic equation from dynamo theory with different prescribed data. (English summary) **2005m:35126**

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Cīrulis, T. (*with* Lietuvietis, O.; Tsebers, A. O.) Dynamics of small bubble interface perturbations in vertical Hele-Shaw cell with magnetic liquid under the action of normal magnetic field. (English and Lithuanian summaries) **2005g:76043**

Colella, Phillip *see* **Crockett, Robert K. et al., 2005j:76065**

Cox, Stephen M. (*with* Matthews, Paul C.; Pollicott, S. L.) Swift-Hohenberg model for magnetoconvection. (English summary) **2005e:85003**

Craig, I. J. D. (*with* Litvinenko, Yu. È.) Current singularities in planar magnetic X points of finite compressibility. (English summary) **2005j:76095**

Crockett, Robert K. (*with* Colella, Phillip; Fisher, Robert T.; Klein, Richard J.; McKee, Christopher I.) An unsplit, cell-centered Godunov method for ideal MHD. (English summary) **2005j:76065**

Damiano, P. A. (*with* Wright, A. N.; Sydora, R. D.; Samson, J. C.) Hybrid magnetohydrodynamic-kinetic electron closure methods and shear Alfvén waves in nonuniform plasmas. (English summary) **2005k:76143**

Davidson, P. A. *see* **Siso-Nadal, F., 2005a:86011**

Demidov, A. S. (*with* Moussaoui, Mohand-Arezki) An inverse problem originating from magnetohydrodynamics. (English summary) **2005h:35357**

Diening, Lars (*with* Růžička, Michael) Integral operators on the halfspace in generalized Lebesgue spaces $L^{p(\cdot)}$. I. (English summary) **2005k:47098a**

— (*with* Růžička, Michael) Integral operators on the halfspace in generalized Lebesgue spaces $L^{p(\cdot)}$. II. (English summary) **2005k:47098b**

Donald, John T. (*with* Roberts, Paul H.) The effect of anisotropic heat transport in the Earth's core on the geodynamo. (English summary) **2005h:86024**

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Dreyfuss, Pierre (*with* Hungerbühler, Norbert) Navier-Stokes systems with quasimonotone viscosity tensor. (English summary)

Echkina, E. Y. *see* **Kostomarov, Dmitriĭ Pavlovich et al., (2005b:76005)**

El Aziz, Mohamed A. *see* **Abo-Eldahab, Emad M., 2005g:76113**

Elbarbary, Elsayed M. E. M. Chebyshev finite difference method for the solution of boundary-layer equations. (English summary) **2005f:76072**

— *see also* **El-Dabe, Nabile T. M. et al., 2005g:76085**

El-Bassiouny, A. F. *see* **Elhefnawy, Abdel Raouf F.**

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El-Dabe, Nabile T. M. (*with* Mohamed, Mona A. A.) Magnetohydrodynamic micropolar fluid flow and heat transfer through a porous medium between two permeable parallel plates in the presence of radiation. (English summary)

— (*with* Elshehawey, E. F.; Elbarbary, Elsayed M. E. M.; Elgazery, Nasser S.) Chebyshev finite difference method for MHD flow of a micropolar fluid past a stretching sheet with heat transfer. (English summary) **2005g:76085**

Elgazery, Nasser S. *see* **El-Dabe, Nabile T. M. et al., 2005g:76085**

Elhefnawy, Abdel Raouf F. (*with* Zakaria, K.; Sirwah, M. A.) Bifurcations of magnetized surface waves between two immiscible fluids inside a vertical cylindrical container. (English summary) **2005h:76037**

— (*with* El-Bassiouny, A. F.) Nonlinear stability and chaos in electrohydrodynamics. (English summary)

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Essén, Hanno Magnetohydrodynamic self-consistent exact helical solutions. (English summary) **2005f:76117**

Ezzat, Magdy A. Free convection flow of conducting micropolar fluid with thermal relaxation including heat sources. (English summary) **2005f:76095**

Faierman, M. (*with* Mennicken, Reinhard; Möller, Manfred) The essential spectrum of a model problem in 2-dimensional magnetohydrodynamics: a proof of a conjecture by J. Descloux and G. Geymonat. (English summary) **2005f:35072**

Farina, D. *see* **Borgogno, D. et al., 2005i:76130**

Fearn, David R. (*with* Rahman, Md. Mansur) Evolution of non-linear α^2-dynamos and Taylor's constraint. (English summary) **2005g:86023**

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Galvão, R. M. O. *see* **Mikhailovskii, A. B. et al., 2005k:76144**

Ganguli, Gurudas (*with* Rudakov, Leonid) Magnetodynamics of a multicomponent (dusty) plasma. I. Rotation waves near low-frequency cutoff in a homogeneous medium. (English summary) **2005m:76197**

— *see also* **Rudakov, Leonid, 2005m:76198**

Gao, Shao-qin Least-squares mixed finite element methods for the incompressible magnetohydrodynamic equations. (English summary) **2005m:76114**

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Gerbeth, Gunter *see* **Xu, Mingtian et al., 2005k:85008**

Goedbloed, J. P. Variational principles for stationary one- and two-fluid equilibria of axisymmetric laboratory and astrophysical plasmas. (English summary) **2005h:76096**

— Response to "Comment on: 'Variational principles for stationary one- and two-fluid equilibria of axisymmetric laboratory and astrophysical plasmas'" [Phys. Plasmas **12** (2005), no. 6, 064701, 2 pp.; MR2148190] by K. G. McClements and A. Thyagaraja. (English summary)

— *see also* **McClements, K. G.**

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Günther, Uwe Intertwiners of pseudo-Hermitian 2×2-block-operator matrices and a no-go theorem for isospectral MHD dynamo operators. (English summary)

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Hamad, Mohammad A. A. *see* **Ibrahim, Fouad S. et al., 2005m:76148**

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— *see also* **Torasso, R., 2005j:76044**

Hasler, Urs (*with* Schneebeli, Anna; Schötzau, Dominik) Mixed finite element approximation of incompressible MHD problems based on weighted regularization. (English summary) **2005d:65209**

Hassam, A. B. *see* **Huang, Yi-Min[1], 2005a:76082** *and* **2005b:76064**

Hayat, Tasawar (*with* Khan, Masood; Ayub, M.) Couette and Poiseuille flows of an Oldroyd 6-constant fluid with magnetic field. (English summary) **2005f:76007**

— (*with* Mahomed, F. M.; Asghar, Saleem) Peristaltic flow of a magnetohydrodynamic Johnson-Segalman fluid. (English summary) **2005m:76012**

He, Cheng *see* **Jiu, Quan Sen, 2005g:35243**

Helal, M. M. (*with* Abd-El-Malek, Mina B.) Group method analysis of magneto-elastico-viscous flow along a semi-infinite flat plate with heat transfer. (English summary) **2005f:76081**

Hoff, David *see* **Tsyganov, Eugene, 2005e:35172**

Hornig, Gunnar *see* **Pontin, D. I. et al., 2005e:76092**

Huang, Yi-Min[1] (*with* Hassam, A. B.) Magnetohydrodynamic stability of centrifugally confined plasmas. (English summary) **2005a:76082**

— (*with* Hassam, A. B.) Resistive magnetohydrodynamic equilibrium and stability of a rotating plasma with particle sources. (English summary) **2005b:76064**

Hungerbühler, Norbert *see* **Dreyfuss, Pierre**

Huyghe, Jacques M. (*with* Van Loon, R.; Baaijens, Frank P. T.) Fluid-solid mixtures and electrochemomechanics: the simplicity of Lagrangian mixture theory. (English summary) **2005m:76209**

Ibrahim, Fouad S. (*with* Mansour, Mohammad A.; Hamad, Mohammad A. A.) Lie-group analysis of radiative and magnetic field effects on free convection and mass transfer flow past a semi-infinite vertical flat plate. (English summary) **2005m:76148**

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Jackson, Andrew *see* **Livermore, Philip W., 2005b:86040**

Jemella, B. D. (*with* Drake, J. F.; Shay, M. A.) Singular structure of magnetic islands resulting from reconnection. (English summary) **2005h:76098**

Jha, Basant Kumar Transient natural convection in a vertical channel in presence of transverse magnetic field: analogy with a porous medium. (English summary)

Jin, Shu Ping (*with* Yang, H. A.; Wang, Xiaogang) Hall effect and fine structures in magnetic reconnection with high plasma β. (English summary)
Jiu, Quan Sen (*with* He, Cheng) Remarks on the regularity to 3-D ideal magnetohydrodynamic equations. (English summary) **2005g:35243**
Jovanović, D. (*with* Shukla, Padma Kant) Linear theory for fast collisionless magnetic reconnection in the lower-hybrid frequency range. (English summary) **2005m:76199**
Kalpakidis, V. K. (*with* Balassas, Konstantinos G.) Symmetry groups and similarity solutions for a free convective boundary-layer problem. (English summary) **2005d:76033**
Kaptsov, O. V. (*with* Zabluda, A. V.) Characteristic invariants and Darboux's method. (English summary) **2005k:35007**
Kaufman, Allan N. (*with* Tracy, Eugene R.; Brizard, Alain J.) Helical rays in two-dimensional resonant wave conversion. (English summary) **2005i:76131**
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Khater, A. H. (*with* Moawad, S. M.; Callebaut, D. K.) Linear and nonlinear stability analysis for two-dimensional ideal magnetohydrodynamics with incompressible flows. (English summary) **2005h:76039**
Khesin, Boris A. Geometry of higher helicities. (English and Russian summaries) **2005e:55018**
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Kondoh, Koji *see* **Ugai, M. et al., 2005m:76204**
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Kostomarov, Dmitriĭ Pavlovich (*with* Inovenkov, I. N.; Echkina, E. Y.; Leonenko, A. V.; Pavlova, O. A.; Bulanov, S. V.) Application of parallel programming method for 3D MHD computer simulations of magnetic reconnection in plasma. (English summary) (*see* **2005b:76005**)
— (*with* Zaĭtsev, F. S.; Akers, R. J.; Shishkin, A. G.) Investigation of the electrical conductivity of a plasma in a spherical tokamak. (Russian)
Kovalishen, E. A. *see* **Mikhailovskii, A. B. et al., 2005k:76144**
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Lavrova, Olga (*with* Matthies, Gunar; Mitkova, Teodora; Polevikov, Viktor K.; Tobiska, Lutz) Finite element methods for coupled problems in ferrohydrodynamics. (English summary) (*see* **2005a:65001**)
Lee, Yong-Joong (*with* Munz, Claus-Dieter) Advanced hyperbolic divergence cleaning scheme for shallow water magnetohydrodynamics. (English summary) **2005a:35193**
Leonenko, A. V. *see* **Kostomarov, Dmitriĭ Pavlovich et al., (2005b:76005)**
Li, Ding[1] *see* **Zhang, Wenlu et al., 2005k:76053**
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Li, Shengtai An HLLC Riemann solver for magneto-hydrodynamics. (English summary)
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Litvinov, V. G. Model and problem on flow of magnetorheological fluid. (English summary) **2005m:76008**
Liu, Jian-Guo[1] (*with* Wang, Wei-Cheng) Energy and helicity preserving schemes for hydro- and magnetohydro-dynamics flows with symmetry. (English summary)
Liu, Weijiu (*with* Haller, György) Inertial manifolds and completeness of eigenmodes for unsteady magnetic dynamos. (English summary) **2005e:37181**
Livermore, Philip W. (*with* Jackson, Andrew) On magnetic energy instability in spherical stationary flows. (English summary) **2005b:86040**
Liverts, Edward *see* **Shtemler, Yuri M. et al., 2005h:76041**
Łukaszewicz, Grzegorz (*with* Sadowski, Witold) Uniform attractor for 2D magneto-micropolar fluid flow in some unbounded domains. (English summary) **2005a:35031**
Mahomed, F. M. *see* **Hayat, Tasawar et al., 2005m:76012**
Mansour, Mohammad A. *see* **Ibrahim, Fouad S. et al., 2005m:76148**
Mascia, Corrado (*with* Zumbrun, Kevin) Stability of small-amplitude shock profiles of symmetric hyperbolic-parabolic systems. (English summary) **2005e:35022**
Matsui, Hiroaki (*with* Okuda, Hiroshi) Development of a simulation code for MHD dynamo processes using the GeoFEM platform. (English summary)
Matthews, Paul C. *see* **Cox, Stephen M. et al., 2005e:85003**
Matthies, Gunar *see* **Lavrova, Olga et al., (2005a:65001)**
Mauser, Norbert J. *see* **Brenier, Yann et al., 2005f:35254**
McClements, K. G. (*with* Thyagaraja, A.) Comment on "Variational principles for stationary one- and two-fluid equilibria of axisymmetric laboratory and astrophysical plasmas" [Phys. Plasmas **11** (2004), no. 12, L81–L84; MR2115219 (2005h:76096)] by J. P. Goedbloed. (English summary)
— *see also* **Goedbloed, J. P.**
McKee, Christopher I. *see* **Crockett, Robert K. et al., 2005j:76065**
Mekheimer, Kh. S. Peristaltic flow of blood under effect of a magnetic field in a non-uniform channels. (English summary) **2005b:76145**
Mekhonoshin, V. V. (*with* Lange, Adrian) Chain-induced effects in the Faraday instability on ferrofluids in a horizontal magnetic field. (English summary) **2005a:76083**
Mennicken, Reinhard *see* **Faierman, M. et al., 2005f:35072**
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Meurer, M. E. *see* **Garabedian, P. R., 2005a:76012**
Mikhailovskii, A. B. (*with* Kovalishen, E. A.; Tsypin, V. S.; Galvão, R. M. O.) Unified theory of Mercier-ballooning and Alfvén eigenmodes in positive-shear tokamaks with large-orbit energetic ions. (English summary) **2005k:76144**
Mingione, Giuseppe *see* **Acerbi, E. et al., 2005a:35118**
Mininni, Pablo D. (*with* Montgomery, David C.; Pouquet, Annick G.) A numerical study of the alpha model for two-dimensional magnetohydrodynamic turbulent flows. (English summary) **2005k:76068**
Mitkova, Teodora *see* **Lavrova, Olga et al., (2005a:65001)**
Miyoshi, Takahiro (*with* Kusano, Kanya) A multi-state HLL approximate Riemann solver for ideal magnetohydrodynamics. (English summary) **2005m:76123**
Moatimid, Galal M. *see* **Elcoot, Abd Elmonem Khalil, 2005f:76097**
Moawad, S. M. *see* **Khater, A. H. et al., 2005h:76039**
Mofiz, U. A. On the trapping of Alfvén waves in the polar region of a compact gravitating object. (English summary) **2005b:85006**
Mohamed, Mona A. A. *see* **El-Dabe, Nabile T. M.**
Möller, Manfred *see* **Faierman, M. et al., 2005f:35072**
Mond, Michael *see* **Shtemler, Yuri M. et al., 2005h:76041**
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Moroz, Irene M. The Malkus-Robbins dynamo with a nonlinear series motor. (English summary) **2005d:37176**
Moussaoui, Mohand-Arezki *see* **Demidov, A. S., 2005h:35357**
Munz, Claus-Dieter *see* **Lee, Yong-Joong, 2005a:35193**
Nesliturk, A. I. (*with* Tezer-Sezgin, M.) The finite element method for MHD flow at high Hartmann numbers. (English summary) **2005j:76061**
Núñez Jiménez, Manuel Growth of the magnetic field in Hall magnetohydrodynamics. (English summary) **2005d:35213**
— Minimum correlation time in turbulent magnetohydrodynamic flows. (English summary) **2005a:76091**
— *see also* **Advances in nonlinear dynamos, 2005b:76004**
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Oliveri, Francesco *see* **Speciale, Maria Paola, (2005c:00016)**
Palese, Lidia (*with* Georgescu, Adelina) On instability of the magnetic Bénard problem with Hall and ion-slip effects. (English summary) **2005b:76056**
— (*with* Georgescu, Adelina) Lyapunov method applied to the anisotropic Bénard problem. (English summary) **2005c:76052**
Papaloizou, J. C. B. Disk planet interactions and early evolution in Young planetary systems. (English summary) **2005j:85005**
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Pegoraro, F. *see* **Borgogno, D. et al., 2005i:76130**
Podgorny, A. I. (*with* Podgornyĭ, I. M.) MHD modeling of phenomena in the solar corona using an absolutely implicit scheme. (Russian. Russian summary) **2005k:85005**
Podgornyĭ, I. M. *see* **Podgorny, A. I., 2005k:85005**
Polevikov, Viktor K. *see* **Lavrova, Olga et al., (2005a:65001)**
Pollicott, S. L. *see* **Cox, Stephen M. et al., 2005e:85003**
Pontin, D. I. (*with* Hornig, Gunnar; Priest, E. R.) Kinematic reconnection at a magnetic null point: spine-aligned current. (English summary) **2005e:76092**
Porcelli, Franco *see* **Borgogno, D. et al., 2005i:76130**
Pouquet, Annick G. *see* **Mininni, Pablo D. et al., 2005k:76068**
Priest, E. R. *see* **Pontin, D. I. et al., 2005e:76092** *and* **Beveridge, C. et al., 2005f:85002**
Prix, Reinhard Variational description of multifluid hydrodynamics: coupling to gauge fields. (English summary) **2005m:76205**
Puel, Marjolaine *see* **Brenier, Yann et al., 2005f:35254**
Radwan, Ahmed E. Hydromagnetic stability of gravitational streaming coaxial cylinders with double perturbed interfaces. (English summary) **2005h:76040**
— Instability of a compressible annular magnetized fluid. (English summary) **2005i:76055**
Rahman, Md. Mansur *see* **Fearn, David R., 2005g:86023**
Rempel, Erico L. (*with* Chian, Abraham C.-L.) Alfvén chaotic saddles. (English summary) **2005h:37207**
Roberts, Paul H. *see* **Braginsky, Stanislav, 2005g:86022** *and* **Donald, John T., 2005h:86024**
Rogachevskii, Igor (*with* Kleeorin, Nathan) Nonlinear theory of a "shear-current" effect and mean-field magnetic dynamos. (English summary) **2005j:85007**
Rucklidge, Alastair M. *see* **Ashwin, Peter et al., 2005e:37200**
Rudakov, Leonid (*with* Ganguli, Gurudas) Magnetodynamics of a multicomponent (dusty) plasma. II. Magnetic drift waves in an inhomogeneous medium. (English summary) **2005m:76198**
— *see also* **Ganguli, Gurudas, 2005m:76197**
Růžička, Michael Modeling, mathematical and numerical analysis of electrorheological fluids. (English summary) **2005i:35223**
— *see also* **Diening, Lars, 2005k:47098a** *and* **2005k:47098b**
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Schötzau, Dominik Mixed finite element methods for stationary incompressible magneto-hydrodynamics. (English summary) **2005b:76088**
— *see also* **Hasler, Urs et al., 2005d:65209**
Schüssler, Manfred (*with* Ferriz-Mas, Antonio) Magnetic flux tubes and the dynamo problem. **2005k:85006**
Selezov, I. T. Wave processes in fluids and elastic media. (English summary) **2005c:76020**
Serëgin, G. A. *see* **Acerbi, E. et al., 2005a:35118**
Sharma, Divya *see* **Sunil et al.**
Sharma, R. C. *see* **Sunil et al.**
Shay, M. A. *see* **Jemella, B. D. et al., 2005h:76098**
Shebalin, John V. Theory and simulation of real and ideal magnetohydrodynamic turbulence. (English summary) **2005i:76060**
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Shishkin, A. G. *see* **Kostomarov, Dmitriĭ Pavlovich et al.**
Shtemler, Yuri M. (*with* Mond, Michael; Liverts, Edward) The Hall instability of unsteady inhomogeneous axially symmetric magnetized plasmas. (English summary) **2005h:76041**

Shtern, Vladimir Instability versus collapse in a flow driven by the radial electric current. (English summary) **2005a:76086**
Shukla, Padma Kant *see* **Jovanović, D., 2005m:76199**
Singh, Rama Shanker[2] (*with* Sinha, Brijesh Kumar) Classical string model of magnetic field lines in relativistic magnetohydrodynamics. (English summary) **2005h:83087**
Sinha, Brijesh Kumar *see* **Singh, Rama Shanker**[2], **2005h:83087**
Sirwah, M. A. *see* **Elhefnawy, Abdel Raouf F. et al., 2005h:76037**
Siso-Nadal, F. (*with* Davidson, P. A.) Anisotropic evolution of small isolated vortices within the core of the Earth. (English summary) **2005a:86011**
Soward, Andrew M. Thin aspect ratio $\alpha\Omega$-dynamos in galactic discs and stellar shells. **2005f:85003**
Speciale, Maria Paola (*with* Oliveri, Francesco) Linear stability of some exact solutions to ideal magneto-gas-dynamics equations. (English summary) (*see* **2005c:00016**)
Stefani, Frank *see* **Xu, Mingtian et al., 2005k:85008**
Sturman, Rob *see* **Ashwin, Peter et al., 2005e:37200**
Sunil (*with* Sharma, Divya; Sharma, R. C.) The effect of magnetic field dependent viscosity on thermosolutal convection in a ferromagnetic fluid saturating a porous medium. (English summary)
Sydora, R. D. *see* **Damiano, P. A. et al., 2005k:76143**
Tadmor, Eitan *see* **Balbás, Jorge et al., 2005f:76070**
Takayama, Masahiro Initial boundary value problem for the equations of ideal magneto-hydrodynamics in a half space. **2005e:35190**
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Thyagaraja, A. *see* **McClements, K. G.** *and* **Goedbloed, J. P.**
Tilgner, A. Precession driven dynamos. (English summary) **2005k:85007**
Tobiska, Lutz *see* **Lavrova, Olga et al., (2005a:65001)**
Torasso, R. (*with* Hameiri, Eliezer) Ballooning mode stability in the Hall-magnetohydrodynamics model. (English summary) **2005j:76044**
— *see also* **Hameiri, Eliezer, 2005h:76038**
Torrilhon, Manuel (*with* Balsara, D. S.) High order WENO schemes: investigations on non-uniform convergence for MHD Riemann problems. (English summary) **2005g:65127**
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Tracy, Eugene R. *see* **Kaufman, Allan N. et al., 2005i:76131**
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Turner, James C., Jr. Modelling control of crystal growth processes. (English summary) **2005g:76032**
Ugai, M. (*with* Kondoh, Koji; Shimizu, Tohru) Spontaneous fast reconnection model in three dimensions. (English summary) **2005m:76204**
Van Loon, R. *see* **Huyghe, Jacques M. et al., 2005m:76209**
Verma, Mahendra K. Statistical theory of magnetohydrodynamic turbulence: recent results. (English summary) **2005k:76065**
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Wafo Soh, C. Invariant solutions of the unidirectional flow of an electrically charged power-law non-Newtonian fluid over a flat plate in presence of a transverse magnetic field. (English summary) **2005g:76098**
Wang, Dehua[1] *see* **Chen, Gui Qiang, 2005b:35227**
Wang, Li Juan Optimal control of magnetohydrodynamic equations with state constraint. (English summary) **2005f:49068**
Wang, Wei-Cheng *see* **Liu, Jian-Guo**[1]
Wang, Xiaogang *see* **Jin, Shu Ping et al.**
Willis, Ashley P. (*with* Gubbins, David) Kinematic dynamo action in a sphere: effects of periodic time-dependent flows on solutions with axial dipole symmetry. (English summary) **2005g:86024**
Wright, A. N. *see* **Damiano, P. A. et al., 2005k:76143**
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Wu, Zhengwei *see* **Zhang, Wenlu et al., 2005k:76053**
Xu, Mingtian (*with* Stefani, Frank; Gerbeth, Gunter) Integral equation approach to time-dependent kinematic dynamos in finite domains. (English summary) **2005k:85008**
Yang, H. A. *see* **Jin, Shu Ping et al.**
Yariv, Ehud (*with* Brenner, Howard; Kim, Sangtae) Curvature-induced dispersion in electro-osmotic serpentine flows. (English summary) **2005a:76055**
Yuan, Baoquan Blow-up criterion of smooth solutions to the MHD equations in Besov spaces. (English summary) **2005k:35400**
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Zakaria, K. *see* **Elhefnawy, Abdel Raouf F. et al., 2005h:76037**
Zhang, Wenlu (*with* Wu, Zhengwei; Li, Ding[1]) Effect of shear flow and magnetic field on the Rayleigh-Taylor instability. (English summary) **2005k:76053**
Zhao, Chunshan (*with* Li, Kai Tai) On existence, uniqueness and L^r-exponential stability for stationary solutions to the MHD equations in three-dimensional domains. (English summary) **2005i:35226**
Zhou, Yong[4] Remarks on regularities for the 3D MHD equations. (English summary) **2005k:35344**
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Items listed otherwise than by author

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Akers, R. J. *see* **Kostomarov, Dmitriĭ Pavlovich et al.**
Ali, Halima (*with* Punjabi, Alkesh; Boozer, Allen) Derivation of the dipole map. (English summary)
Alinejad, H. (*with* Mahmoodi, J.; Sobhanian, S.; Momeni, M.) A new nonlinear differential equation for describing ion-acoustic waves in plasma. (English summary) (*see* **2005m:00007**)
Alouani-Bibi, F. (*with* Shoucri, M. M.; Matte, J.-P.) Different Fokker-Planck approaches to simulate electron transport in plasmas. (English summary)
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Baimbetov, F. B. (*with* Ramazanov, T. S.) ★ Математическое моделирование в физике неидеальной плазмы. (Russian. Russian summary) [Mathematical modeling in nonideal plasma physics]
Batra, K. *see* **Sharma, R. P. et al., 2005i:76132**
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Boozer, Allen *see* **Ali, Halima et al.**
Borgogno, D. (*with* Grasso, Daniela; Porcelli, Franco; Califano, F.; Pegoraro, F.; Farina, D.) Aspects of three-dimensional magnetic reconnection. (English summary) **2005i:76130**
— *see also* **Grasso, Daniela et al.**
Brackbill, J. U. *see* **Ricci, Paolo et al.**
Brizard, Alain J. (*with* Chan, Anthony A.) Relativistic quasilinear diffusion in axisymmetric magnetic geometry for arbitrary-frequency electromagnetic fluctuations. (English summary) **2005e:76091**
— *see also* **Kaufman, Allan N. et al., 2005i:76131** *and* **Strintzi, D. et al., 2005m:76203**
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Cattaert, Tom (*with* Verheest, Frank) Large amplitude parallel propagating electromagnetic oscillitons. (English summary) **2005h:76094**
— *see also* **Verheest, Frank, 2005a:76178** *and* **2005j:76097**
Ceccherini, F. (*with* Montagna, Chiara; Pegoraro, F.; Cicogna, Giampaolo) Two-dimensional Harris-Liouville plasma kinetic equilibria. (English summary) **2005m:76195**
Chan, Anthony A. *see* **Brizard, Alain J., 2005e:76091**
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Cicogna, Giampaolo *see* **Ceccherini, F. et al., 2005m:76195**
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Crispel, Pierre (*with* Degond, Pierre; Parzani, Céline; Vignal, Marie-Hélène) Trois formulations d'un modèle de plasma quasi-neutre avec courant non nul. (English and French summaries) [Three formulations of a quasi-neutral plasma model with non-vanishing current] **2005b:76144**
Damiano, P. A. (*with* Wright, A. N.; Sydora, R. D.; Samson, J. C.) Hybrid magnetohydrodynamic-kinetic electron closure methods and shear Alfvén waves in nonuniform plasmas. (English summary) **2005k:76143**
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Degond, Pierre *see* **Crispel, Pierre et al., 2005b:76144**
D'Ippolito, D. A. (*with* Myra, J. R.; Russell, David A.; Yu, G. Q.) Rotational stability of plasma blobs. (English summary)
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Drake, J. F. *see* **Jemella, B. D. et al., 2005h:76098**
Eliasson, Bengt The parallel implementation of the one-dimensional Fourier transformed Vlasov-Poisson system. (English summary) **2005m:76196**
Eremin, D. Yu. (*with* Berk, H. L.) Instability of phase space structures. (English summary) **2005g:76133**
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Ganguli, Gurudas (*with* Rudakov, Leonid) Magnetodynamics of a multicomponent (dusty) plasma. I. Rotation waves near low-frequency cutoff in a homogeneous medium. (English summary) **2005m:76197**
— *see also* **Rudakov, Leonid, 2005m:76198**
Garcia, O. E. (*with* Naulin, Volker; Nielsen, Anders H.; Rasmussen, J. Juul) Turbulence and intermittent transport at the boundary of magnetized plasmas. (English summary)
Gasilov, N. A. *see* **Sychugov, D. Yu. et al.**
Goedbloed, J. P. Variational principles for stationary one- and two-fluid equilibria of axisymmetric laboratory and astrophysical plasmas. (English summary) **2005h:76096**
— Response to "Comment on: 'Variational principles for stationary one- and two-fluid equilibria of axisymmetric laboratory and astrophysical plasmas'" [Phys. Plasmas **12** (2005), no. 6, 064701, 2 pp.; MR2148190] by K. G. McClements and A. Thyagaraja.

(English summary)
— *see also* **McClements, K. G.**
Gourdain, P.-A. (*with* Leboeuf, J.-N.) Contour dynamics method for solving the Grad-Shafranov equation with applications to high beta equilibria. (English summary)
Grasso, Daniela (*with* Borgogno, D.; Califano, F.; Farina, D.; Pegoraro, F.; Porcelli, Franco) Numerical solution of a reduced model of collisionless magnetic reconnection in two and three dimensions. (English summary)
— *see also* **Borgogno, D. et al., 2005i:76130**
Greenwald, Martin Beyond benchmarking —how experiments and simulations can work together in plasma physics. (English summary)
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Haefele, M. *see* **Gutnic, Michaël et al.**
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Hirota, M. (*with* Tatsuno, T.; Yoshida, Zensho) Resonance between continuous spectra: secular behavior of Alfvén waves in a flowing plasma. (English summary) **2005h:76097**
Hole, M. J. (*with* Robinson, Peter A.; Cairns, Iver H.) Statistics of polarization and Stokes parameters of stochastic waves. (English summary) **2005j:76096**
Hornig, Gunnar *see* **Pontin, D. I. et al., 2005e:76092**
Ivanov, A. V. (*with* Cairns, Iver H.; Robinson, Peter A.) Wave damping as a critical phenomenon. (English summary)
Jemella, B. D. (*with* Drake, J. F.; Shay, M. A.) Singular structure of magnetic islands resulting from reconnection. (English summary) **2005h:76098**
Jerome, Joseph W. The Cauchy problem for compressible hydrodynamic-Maxwell systems: a local theory for smooth solutions. (English summary) **2005g:76134**
Jin, Shi *see* **Wöhlbier, J. G. et al.**
Jin, Shu Ping (*with* Yang, H. A.; Wang, Xiaogang) Hall effect and fine structures in magnetic reconnection with high plasma β. (English summary)
Jovanović, D. (*with* Shukla, Padma Kant) Linear theory for fast collisionless magnetic reconnection in the lower-hybrid frequency range. (English summary) **2005m:76199**
Ju, Qiangchang Asymptotics of initial boundary value problems of bipolar hydrodynamic model for semiconductors. (English summary) **2005c:76094**
Kaufman, Allan N. (*with* Tracy, Eugene R.; Brizard, Alain J.) Helical rays in two-dimensional resonant wave conversion. (English summary) **2005i:76131**
Kholodov, A. S. *see* **Kholodov, Ya. A. et al.**
Kholodov, Ya. A. (*with* Kholodov, A. S.; Stupitzki, E. L.; Repin, A. Y.) Numerical simulation of the convective plasma dynamics stage at the ionosphere motion by means of 3D MHD equations. (English summary)
Knight, P. J. *see* **Thyagaraja, A. et al.**
Kolesnikov, R. A. *see* **Krommes, J. A., 2005a:76177**
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Kostomarov, Dmitriĭ Pavlovich (*with* Zaĭtsev, F. S.; Akers, R. J.; Shishkin, A. G.) Investigation of the electrical conductivity of a plasma in a spherical tokamak. (Russian)
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Krasheninnikov, S. I. *see* **Smolyakov, A. I. et al., 2005m:76202**
Krommes, J. A. (*with* Kolesnikov, R. A.) Hamiltonian description of convective-cell generation. (English summary) **2005a:76177**
Labrunie, Simon (*with* Carrillo, José-Antonio; Bertrand, Pierre) Numerical study on hydrodynamic and quasi-neutral approximations for collisionless two-species plasmas. (English summary) **2005d:76046**
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Lapenta, Giovanni *see* **Ricci, Paolo et al.**
Leboeuf, J.-N. *see* **Gourdain, P.-A.**
Lee, W. W. Theoretical and numerical properties of a gyrokinetic plasma: issues related to transport time scale simulation. (English summary)
Lewandowski, J. L. V. Characterization of strange attractors in drift wave microturbulence. (English summary)
— Low-noise collision operators for particle-in-cell simulations. (English summary)
Litvinenko, Yu. È. *see* **Craig, I. J. D., 2005j:76095**
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Mackey, Dana (*with* Plantié, L.; Turner, M. M.) Instabilities and pattern formation in low temperature plasmas. (English summary)
Mahmoodi, J. *see* **Alinejad, H. et al., (2005m:00007)**
Matte, J.-P. *see* **Alouani-Bibi, F. et al.**
McClements, K. G. (*with* Thyagaraja, A.) Comment on "Variational principles for stationary one- and two-fluid equilibria of axisymmetric laboratory and astrophysical plasmas" [Phys. Plasmas **11** (2004), no. 12, L81–L84; MR2115219 (2005h:76096)] by J. P. Goedbloed. (English summary)
— *see also* **Goedbloed, J. P.**
Mikhailovskii, A. B. (*with* Kovalishen, E. A.; Tsypin, V. S.; Galvão, R. M. O.) Unified theory of Mercier-ballooning and Alfvén eigenmodes in positive-shear tokamaks with large-orbit energetic ions. (English summary) **2005k:76144**
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Podesta, J. J. Spatial Landau damping in plasmas with three-dimensional κ distributions. (English summary)
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Ricci, Paolo (*with* Brackbill, J. U.; Daughton, W.; Lapenta, Giovanni) Collisionless magnetic reconnection in the presence of a guide field. (English summary)
Robinson, Peter A. *see* **Hole, M. J. et al., 2005j:76096** *and* **Ivanov, A. V. et al.**
Rossmanith, James A. A high-resolution constrained transport method with adaptive mesh refinement for ideal MHD. (English summary)
Rudakov, Leonid (*with* Ganguli, Gurudas) Magnetodynamics of a multicomponent (dusty) plasma. II. Magnetic drift waves in an inhomogeneous medium. (English summary) **2005m:76198**
— *see also* **Ganguli, Gurudas, 2005m:76197**
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Samson, J. C. *see* **Damiano, P. A. et al., 2005k:76143**
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— *see also* **Strintzi, D. et al., 2005h:76101** *and* **2005m:76203**
Sengele, S. *see* **Wöhlbier, J. G. et al.**
Sharma, R. P. (*with* Batra, K.; Verga, Alberto) Nonlinear evolution of the modulational instability and chaos using one-dimensional Zakharov equations and a simplified model. (English summary) **2005i:76132**
Shay, M. A. *see* **Jemella, B. D. et al., 2005h:76098**
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Shukla, Padma Kant *see* **Jovanović, D., 2005m:76199**
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Singh, Krishna K. *see* **Subbarao, D. et al.**
Smolyakov, A. I. (*with* Krasheninnikov, S. I.; Tolstikhin, O. I.) Electromagnetic instability of an axially inhomogeneous plasma. (English summary) **2005m:76202**
Sobhanian, S. *see* **Alinejad, H. et al., (2005m:00007)**
Sonnendrücker, E. *see* **Gutnic, Michaël et al.**
Strintzi, D. (*with* Scott, Bruce D.) Nonlocal nonlinear electrostatic gyrofluid equations. (English summary) **2005h:76101**
— (*with* Scott, Bruce D.; Brizard, Alain J.) Nonlocal nonlinear electrostatic gyrofluid equations: a four-moment model. (English summary) **2005m:76203**
Stupitzki, E. L. *see* **Kholodov, Ya. A. et al.**
Subbarao, D. (*with* Arora, Manish; Uma, Ramanathan; Phanendra, M. V. R.; Singh, Krishna K.) Computer simulation of gyrophase self-organisation in a magnetoplasma (English summary)
Sychugov, D. Yu. (*with* Amelin, V. V; Gasilov, N. A.; Tsaun, S. V.) Numerical investigation of the vertical instability of plasma in a tokamak under finite conductivity of stabilizing elements. (Russian. Russian summary)
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Thouless, David J. *see* **Chen, Li-Jen et al.**
Thyagaraja, A. (*with* Knight, P. J.; Loureiro, N.) Mesoscale plasma dynamics, transport barriers and zonal flows: simulations and paradigms. (English summary)
— *see also* **McClements, K. G.** *and* **Goedbloed, J. P.**
Tolstikhin, O. I. *see* **Smolyakov, A. I. et al., 2005m:76202**
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Verga, Alberto *see* **Sharma, R. P. et al., 2005i:76132**
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— (*with* Cattaert, Tom) Oblique propagation of large amplitude electromagnetic solitons in pair plasmas. (English summary) **2005j:76097**
— *see also* **Cattaert, Tom, 2005h:76094**
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Wang, Ya-Guang *see* **Peng, Yue-Jun, 2005f:76118**

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Zaĭtsev, F. S. *see* **Kostomarov, Dmitriĭ Pavlovich et al.**

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Alexandre, Radjesvarane (*with* Villani, Cédric) On the Landau approximation in plasma physics. (English and French summaries) **2005f:82126**
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— (*with* Torcicollo, I.) Time-periodic solutions to hydrodynamical models for semiconductors. (English summary) (*see* **2005c:00016**)
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— (*with* Mascali, G.) A two population model for electron transport in Si. (English summary) (*see* **2005c:00016**)
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Aydemir, A. Y. Magnetohydrodynamic equilibrium and stability of rotating plasmas in a mirror geometry. (English summary) **2005i:76119**
Baboolal, S. A high-resolution numerical fluid simulation of plasma sheaths. (English summary)
— *see also* **Naidoo, R.**
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Beliën, A. J. C. *see* **Goedbloed, J. P. et al., 2005e:76087**
Belova, Elena V. (*with* Davidson, Ronald C.; Ji, Hantao; Yamada, Masaaki[1]) Kinetic effects on the stability properties of field-reversed configurations. II. Nonlinear evolution. (English summary) **2005a:76080**
Ben Abdallah, Naoufel (*with* Chaker, Hédia) The high field asymptotics for degenerate semiconductors: initial and boundary layer analysis. (English summary) **2005a:35269**
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Bhattacharjee, Amitava (*with* Germaschewski, K.; Ng, C. S.) Current singularities: drivers of impulsive reconnection. (English summary)
Biernat, H. K. *see* **Erkaev, N. V. et al., 2005h:76086**
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— (*with* Bushmanov, R. S.; Romano, V.) Global existence for the system of the macroscopic balance equations of charge transport in semiconductors. (English summary) **2005k:35392**
Bostan, Mihai Solutions périodiques en temps des équations de Vlasov-Maxwell. (English and French summaries) [Time-periodic solutions for the Vlasov-Maxwell equations] **2005f:35039**
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Boyd, T. J. M. (*with* Sanderson, J. J.) ★ The physics of plasmas. **2005e:82113**
Brackbill, J. U. Particle methods. (English summary) **2005j:76070**
Brizard, Alain J. A guiding-center Fokker-Planck collision operator for nonuniform magnetic fields. (English summary) **2005e:82094**
Burbeau-Augoula, Anne On using discontinuous finite element methods to simulate inertial confinement fusion. (English summary) **2005i:76073**
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— Global small solutions of the Vlasov-Maxwell system in the absence of incoming radiation. (English summary) **2005j:35211**
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Cary, John R. *see* **Sonnad, Kiran G.**
Ceccherini, F. (*with* Cicogna, Giampaolo; Pegoraro, F.) Symmetry properties of a system of Euler-type equations for magnetized plasmas. (English summary) **2005m:35012**
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Chen, Li[7] (*with* Xiao, Ling; Li, Yong[13]) Global existence and asymptotic behavior to the solutions of 1-D Lyumkis energy transport model for semiconductors. (English summary) **2005b:82096**
Cicogna, Giampaolo *see* **Ceccherini, F. et al., 2005m:35012**
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— *see also* **Colin, M., 2005h:35317**
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— (*with* Jabin, Pierre-Emmanuel; Vasseur, Alexis) Hydrodynamic limit for the Vlasov-Navier-Stokes equations. II. Fine particles regime. (English summary) **2005k:35335**
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— (*with* Shu, Chi-Wang; Zhou, Tie) The dynamics of a plane diode. (English summary) **2005f:35302**
— *see also* **Strain, Robert M., 2005m:82155**
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— (*with* Goel, Deepak; Hassam, A. B.) Ideal magnetohydrodynamic interchanges in low density plasmas. (English summary) **2005j:76094**
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— *see also* **Gasser, Ingenuin et al., 2005c:35274**
Li, Kai Tai *see* **Guo, Xiu Lan, 2005e:35126**
Li, Yeping The Cauchy-Neumann problem for a multidimensional nonisentropic hydrodynamic semiconductor model. (English summary) **2005m:35239**
Li, Yong Sheng (*with* Guo, Bo Ling) Attractor of dissipative radially symmetric Zakharov equations outside a ball. (English summary) **2005d:35239**
Li, Yong[13] *see* **Chen, Li[7] et al., 2005b:82096** *and* **Ju, Qiangchang, 2005c:35192**
Lin, Chi-Kun *see* **Li, Hai Liang[2], 2005m:82158**
Liu, Hailiang (*with* Tadmor, Eitan) Critical thresholds in 2D restricted Euler-Poisson equations. (English summary) **2005g:35245**
Liverts, Edward *see* **Shtemler, Yuri M. et al., 2005h:76041**
Loeper, Grégoire (*with* Vasseur, Alexis) Electric turbulence in a plasma subject to a strong magnetic field. (English summary) **2005j:78012**
Mahajan, S. M. *see* **Yoshida, Zensho et al., 2005g:76132**
Maquet, Jean *see* **Letellier, Christophe et al., 2005a:82109**
Markowich, Peter A. *see* **Jin, Shi et al., 2005e:65155** *and* **Burger, Martin et al., 2005h:82115**
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Mond, Michael *see* **Shtemler, Yuri M. et al., 2005h:76041**
Muscato, Orazio An extended hydrodynamic model for a bipolar junction transistor. (English summary) (*see* **2005c:00016**)
Naidoo, R. (*with* Baboolal, S.) A semi-discrete numerical solution of the plasma fluid equations and solitons. (English summary)
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Ohsaki, Shuichi *see* **Yoshida, Zensho et al., 2005g:76132**
Padial, J. F. *see* **Díaz Díaz, Jesús Ildefonso et al., 2005b:35303**
Parzani, Céline *see* **Degond, Pierre et al., 2005h:82107**
Passot, T. (*with* Sulem, P. L.) A Landau fluid model for dispersive magnetohydrodynamics. (English summary) **2005i:76124**
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Peletminskiĭ, S. V. (*with* Slyusarenko, Yu. V.; Sokolovskiĭ, A. I.) Kinetics and hydrodynamics of long-wave fluctuations under external random force. (English summary) **2005f:82103**
Pellacci, Benedetta (*with* Squassina, Marco) Unbounded critical points for a class of lower semicontinuous functionals. (English summary) **2005i:35052**
Peng, Yue-Jun Some asymptotic analysis in steady-state Euler-Poisson equations for potential flow. (English summary) **2005h:82108**
— (*with* Wang, Ya-Guang) Boundary layers and quasi-neutral limit in steady state Euler-Poisson equations for potential flows. (English summary) **2005b:35230**
— (*with* Wang, Ya-Guang) Convergence of compressible Euler-Poisson equations to incompressible type Euler equations. (English summary) **2005m:76149**
Pohn, E. (*with* Shoucri, M. M.; Kamelander, G.) Eulerian Vlasov codes. (English summary) **2005j:82076**
Pontin, D. I. (*with* Hornig, Gunnar; Priest, E. R.) Kinematic reconnection at a magnetic null point: fan-aligned current. (English summary) **2005i:76127**
Popov, S. P. On the properties of two-dimensional soliton solutions of an evolution equation. (Russian. Russian summary) **2005k:35361**
Popovici, Constantin I. The numerical solution of the free boundary problem of electrodiffusion in a bipolar membrane (the diode semiconductor). (English summary) **2005e:80006**
Poupaud, Frédéric *see* **Fellner, Klemens et al., 2005c:82077**
Priest, E. R. *see* **Pontin, D. I. et al., 2005i:76127** *and* **Wilmot-Smith, A. L. et al., 2005k:76141**
Pron′ko, G. P. *see* **Antoniou, Ioannis E., 2005k:76002**
Puel, Marjolaine (*with* Saint-Raymond, Laure) Quasineutral limit for the relativistic Vlasov-Maxwell system. **2005k:35409**
Pushkarev, Andrei *see* **Zakharov, Vladimir E. et al., 2005f:76058**
Rakotoson, Jean Michel *see* **Díaz Díaz, Jesús Ildefonso et al., 2005b:35303**
Raupp, Marco Antonio *see* **Kapitonov, Boris V., 2005c:35026**
Rein, Gerhard Global weak solutions to the relativistic Vlasov-Maxwell system revisited. (English summary) **2005k:35396**
Ringhofer, Christian Kinetic and gas-dynamic models for semiconductor transport. (English summary) (*see* **2005f:82134**)
Romano, V. (*with* Valenti, Antonino) Exact invariant solutions for a class of energy-transport models of semiconductors in the two dimensional stationary case. (English summary)
— *see also* **Blokhin, A. M. et al., 2005c:82093; 2005k:35392** *and* **Anile, Angelo Marcello et al., (2005f:82134)**
Rose, James H. Single-sided focusing and the minimum principle of inverse scattering theory. (English summary) **2005c:35297**
Rosini, Massimiliano D. Stability of transonic strong shock waves for the one-dimensional hydrodynamic model for semiconductors. (English summary) **2005e:35159**
Ruderman, Michael (*with* Simpson, D.) Absolute and convective instabilities of parallel propagating circularly polarized Alfvén waves: decay instability. (English summary) **2005f:76115**
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— A small data theorem for collisionless plasma that includes high velocity particles. (English summary) **2005f:35300**
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Shaidurov, V. A. *see* **Erkaev, N. V. et al., 2005h:76086**
Shebalin, John V. Størmer regions for axisymmetric magnetic multipole fields. (English summary) **2005h:78009**
Shirkov, Dmitrii V. *see* **Kovalev, Vladimir F.**
Shoucri, M. M. *see* **Pohn, E. et al., 2005j:82076**
Shtemler, Yuri M. (*with* Mond, Michael; Liverts, Edward) The Hall instability of unsteady inhomogeneous axially symmetric magnetized plasmas. (English summary) **2005h:76041**
Shu, Chi-Wang *see* **Guo, Yan et al., 2005f:35302**
Sikka, Himanshu (*with* Kumar, Nagendra; Zhelyazkov, Ivan) Surface wave propagation in an ideal Hall-magnetohydrodynamic plasma jet in flowing environment. (English summary) **2005h:76091**
Simpson, D. *see* **Ruderman, Michael, 2005f:76115**
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Sokolovskiĭ, A. I. *see* **Peletminskiĭ, S. V. et al., 2005f:82103**
Sonnad, Kiran G. (*with* Cary, John R.) Finding a nonlinear lattice with improved integrability using Lie transform perturbation theory. (English summary)
Squassina, Marco *see* **Pellacci, Benedetta, 2005i:35052**
Strain, Robert M. (*with* Guo, Yan) Stability of the relativistic Maxwellian in a collisional plasma. (English summary) **2005m:82155**
Stüben, Klaus *see* **Clees, Tanja, (2005a:65001)**
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Texier, Benjamin *see* **Colin, Thierry et al., 2005k:35372**
Tian, Emily M. (*with* Tan, Yu) Perturbation analysis of homoclinic structure in Zakharov equations. (English summary) **2005f:37160**
Tirskiĭ, G. A. *see* **Zhdanov, V. M., 2005a:82100**
Torasso, R. (*with* Hameiri, Eliezer) Ballooning mode stability in the Hall-magnetohydrodynamics model. (English summary) **2005j:76044**
— *see also* **Hameiri, Eliezer, 2005h:76038**
Torcicollo, I. *see* **Alì, Giuseppe, (2005c:00016)**
Tzenov, Stephan I. ★ Contemporary accelerator physics. **2005k:78007**
Valenti, Antonino *see* **Romano, V.**
Vasseur, Alexis *see* **Loeper, Grégoire, 2005j:78012; Goudon, Thierry et al., 2005k:35334** *and* **2005k:35335**
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Wang, Shu Quasineutral limit of Euler-Poisson system with and without viscosity. (English summary) **2005i:35225**
Wang, Ya-Guang *see* **Peng, Yue-Jun, 2005b:35230** *and* **2005m:76149**
Wilmot-Smith, A. L. (*with* Priest, E. R.; Hornig, Gunnar) Magnetic diffusion and the motion of field lines. (English summary) **2005k:76141**
Xiao, Ling *see* **Chen, Li[7] et al., 2005b:82096** *and* **Gasser, Ingenuin et al., 2005c:35274**
Xing, Jia Sheng Stationary solutions of drift-diffusion semiconductor equations. (Chinese. English and Chinese summaries) **2005g:35283**
Xu, Ji-jun (*with* Guo, Rui-qiang; Cui, Guo-zhong) The weak solutions to initial boundary value problem for Boltzmann-Poisson system. (English summary) **2005f:35043**
Yamada, Masaaki[1] *see* **Belova, Elena V. et al., 2005a:76080**
Yoshida, Zensho (*with* Mahajan, S. M.; Ohsaki, Shuichi) Scale hierarchy created in plasma flow. (English summary) **2005g:76132**
Yu, Hongjun Global classical solution of the Vlasov-Maxwell-Landau system near Maxwellians. (English summary) **2005h:82109**
— Global solution of the Vlasov-Poisson-Landau systems near Maxwellians with small amplitude. (English summary) **2005f:35042**
Zakharov, Vladimir E. (*with* Dias, Frédéric; Pushkarev, Andrei) One-dimensional wave turbulence. (English summary) **2005f:76058**

Zhdanov, V. M. (*with* Tirskiĭ, G. A.) Application of the moment method in deriving gas and plasma transport equations with transport coefficients in higher approximations. (Russian. Russian summary) **2005a:82100**
Zhelyazkov, Ivan *see* **Sikka, Himanshu et al., 2005h:76091**
Zheng, Chunxiong *see* **Jin, Shi et al., 2005e:65155**
Zhidkov, P. E. On global solutions for the Vlasov-Poisson system. (English summary) **2005a:35042**
Zhou, Tie *see* **Guo, Yan et al., 2005f:35302**

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Alba, David (*with* Lusanna, Luca) Generalized Eulerian coordinates for relativistic fluids: Hamiltonian rest-frame instant form, relative variables, rotational kinematics. (English summary) **2005g:76135**
Baleanu, Dumitru About metafluid dynamics. (English summary)
Lusanna, Luca *see* **Alba, David, 2005g:76135**
Prix, Reinhard Variational description of multifluid hydrodynamics: coupling to gauge fields. (English summary) **2005m:76205**

Items with secondary classifications in 76Y05

Adzhiev, S. Z. (*with* Amosov, S. A.; Vedenyapin, V. V.) One-dimensional discrete models of kinetic equations for mixtures. (Russian. Russian summary) **2005a:76140**
Amosov, S. A. *see* **Adzhiev, S. Z. et al., 2005a:76140**
Andréasson, Håkan (*with* Calogero, Simone; Illner, Reinhard) On blowup for gain-term-only classical and relativistic Boltzmann equations. (English summary) **2005h:82093**
Balasubramanian, Koushik (*with* Sujith, R. I.) Relativistic shock formation in the presence of radial entropy gradients. (English summary) **2005m:76110**
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Barletti, Luigi *see* **Manzini, Chiara, 2005h:35294**
Batrouni, G. G. (*with* Ramstad, T.; Hansen, Alex) Free-energy landscape and the critical velocity of superfluid films. (English summary) **2005c:82099**
Ben Abdallah, Naoufel (*with* Tang, Shaoqiang) On hybrid quantum-classical transport models. (English summary) **2005e:82117**
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Boghosian, Bruce M. *see* **Love, Peter J., 2005b:81048**
Borghero, Francesco (*with* Demontis, F.; Pennisi, Sebastiano) An exact macroscopic extended model with many moments for ultrarelativistic gases. **2005d:80001**
von Borzeszkowski, Horst-Heino *see* **Herrmann, Heiko et al., 2005d:83088**
Brizard, Alain J. (*with* Chan, Anthony A.) Relativistic quasilinear diffusion in axisymmetric magnetic geometry for arbitrary-frequency electromagnetic fluctuations. (English summary) **2005e:76091**
Calogero, Simone *see* **Andréasson, Håkan et al., 2005h:82093**
Chan, Anthony A. *see* **Brizard, Alain J., 2005e:76091**
Chen, Gui Qiang (*with* Li, Yachun) Stability of Riemann solutions with large oscillation for the relativistic Euler equations. (English summary) **2005e:35155**
— (*with* Li, Yachun) Relativistic Euler equations for isentropic fluids: stability of Riemann solutions with large oscillation. (English summary) **2005h:35277**
De Martino, Salvatore (*with* De Siena, Silvio; Fedele, Renato; Tzenov, Stephan I.) Mesoscopic description of dynamical systems: hierarchy of recursive equations for the moments of the density distribution with an application to charged particle beam dynamics. (English summary) **2005f:70022**
Demontis, F. *see* **Borghero, Francesco et al., 2005d:80001**
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Fedele, Renato *see* **De Martino, Salvatore et al., 2005f:70022**
Feng, Dongmei *see* **Li, Yachun et al., 2005k:35267**
Font, José A. Numerical hydrodynamics in general relativity. (English summary) **2005a:83001**
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Hansen, Alex *see* **Batrouni, G. G. et al., 2005c:82099**
Herrmann, Heiko (*with* Muschik, W.; Rückner, G.; von Borzeszkowski, Horst-Heino) Spin axioms in different geometries of relativistic continuum physics. (English summary) **2005d:83088**
Ignat, Radu (*with* Millot, Vincent) Vortices in a 2d rotating Bose-Einstein condensate. (English and French summaries) **2005m:82093**
Illner, Reinhard *see* **Andréasson, Håkan et al., 2005h:82093**
Jüngel, Ansgar (*with* Wang, Shu) Convergence of nonlinear Schrödinger-Poisson systems to the compressible Euler equations. (English summary) **2005g:35244**
— (*with* Li, Hai Liang^2) Quantum Euler-Poisson systems: existence of stationary states. (English summary) **2005k:35394**
— (*with* Li, Hai Liang^2) Quantum Euler-Poisson systems: global existence and exponential decay. (English summary) **2005g:82078**
Kunik, Matthias (*with* Qamar, Shamsul; Warnecke, Gerald G.) Kinetic schemes for the relativistic gas dynamics. (English summary) **2005c:76072**
— (*with* Qamar, Shamsul; Warnecke, Gerald G.) A BGK-type flux-vector splitting scheme for the ultrarelativistic Euler equations. (English summary) **2005k:65213**
Li, Hai Liang^2 (*with* Lin, Chi-Kun) Zero Debye length asymptotic of the quantum hydrodynamic model for semiconductors. (English summary) **2005m:82158**
— *see also* **Jüngel, Ansgar, 2005g:82078** *and* **2005k:35394**
Li, Yachun (*with* Feng, Dongmei; Wang, Zejun) Global entropy solutions to the relativistic Euler equations for a class of large initial data. (English summary) **2005k:35267**
— *see also* **Chen, Gui Qiang, 2005e:35155** *and* **2005h:35277**
Lin, Chi-Kun *see* **Li, Hai Liang^2, 2005m:82158**
Love, Peter J. (*with* Boghosian, Bruce M.) Quaternionic Madelung transformation and non-abelian fluid dynamics. (English summary) **2005b:81048**
Manzini, Chiara (*with* Barletti, Luigi) An analysis of the Wigner-Poisson problem with inflow boundary conditions. (English summary) **2005h:35294**
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Muschik, W. *see* **Herrmann, Heiko et al., 2005d:83088**
Orlov, Yu. N. On the derivation of equations of hydrodynamics in the framework of the functional Bogolyubov conjecture. (Russian. Russian summary) **2005e:82107**
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Perepelitsa, Mikhail *see* **Frid, Hermano, 2005i:35178**
Pinaud, Olivier Adiabatic approximation of the Schrödinger-Poisson system with a partial confinement: the stationary case. (English summary) **2005e:82108**
Qamar, Shamsul *see* **Kunik, Matthias et al., 2005c:76072** *and* **2005k:65213**
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Roberts, Paul H. *see* **Berloff, Natalia G., 2005h:82117**
Ruan, Li Zhi (*with* Zhu, Changjiang) Existence of global smooth solution to the relativistic Euler equations. (English summary) **2005i:35268**
Rückner, G. *see* **Herrmann, Heiko et al., 2005d:83088**
Singh, Rama Shanker^2 (*with* Sinha, Brijesh Kumar) Classical string model of magnetic field lines in relativistic magnetohydrodynamics. (English summary) **2005h:83087**
Sinha, Brijesh Kumar *see* **Singh, Rama Shanker^2, 2005h:83087**
Strain, Robert M. (*with* Guo, Yan) Stability of the relativistic Maxwellian in a collisional plasma. (English summary) **2005m:82155**
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Tang, Shaoqiang *see* **Ben Abdallah, Naoufel, 2005e:82117**
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Vedenyapin, V. V. *see* **Adzhiev, S. Z. et al., 2005a:76140**
Walton, Ronald A. A symmetric hyperbolic structure for isentropoic relativistic perfect fluids. (English summary) **2005k:35410**
Wang, Shu Quasineutral limit of Euler-Poisson system with and without viscosity. (English summary) **2005i:35225**
— *see also* **Jüngel, Ansgar, 2005g:35244**
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Draney, Mary T. *see* **Taylor, Charles A., 2005a:76182**
Elshehawey, E. F. (*with* Gharsseldien, Z. M.) Peristaltic transport of three-layered flow with variable viscosity. (English summary) **2005a:76179**
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Low, H. T. *see* **Lee, T. S. et al.**
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Milišić, Vuk (*with* Quarteroni, Alfio) Analysis of lumped parameter models for blood flow simulations and their relation with 1D models. (English summary) **2005e:76095**
Mishra, Manoranjan (*with* Rao, Adabala Ramachandra) Peristaltic transport of a Newtonian fluid in an asymmetric channel. (English summary) **2005a:76181**
Nadim, Ali *see* **Olufsen, Mette S.**
Nardinocchi, Paola (*with* Pontrelli, Giuseppe; Teresi, Luciano) A one-dimensional model for blood flow in prestressed vessels. (English summary) **2005i:76134**
van Oijen, C. H. G. A. *see* **van de Vosse, F. N. et al., 2005b:76147**

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Parker, Kim H. *see* **Sherwin, Spencer J. et al., 2005b:76146**
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Vlachakis, N. (*with* Pavlou, D.; Vlachakis, V.; Pavlou, M.; Kouskouti, M.) An exact solution of Navier-Stokes equations for the flow through a diverging artery. (English summary) (*see* **2005b:76003**)
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van de Vosse, F. N. (*with* de Hart, J.; van Oijen, C. H. G. A.; Bessems, D.; Gunther, T. W. M.; Segal, August; Wolters, B. J. B. M.; Stijnen, J. M. A.; Baaijens, Frank P. T.) Finite-element-based computational methods for cardiovascular fluid-structure interaction. (English summary) **2005b:76147**
Weinbaum, Sheldon *see* **Han, Yuefeng et al.**
Wolters, B. J. B. M. *see* **van de Vosse, F. N. et al., 2005b:76147**
Xue, Ju Kui Head-on collision of the blood solitary waves. (English summary)

Items with secondary classifications in 76Z05

Abd El Kareem, M. F. *see* **El Hakeem Abd El Naby, Abd et al., 2005f:76028**
Ajadi, Suraju Olusegun A note on the unsteady flow of dusty viscous fluid between two parallel plates. (English summary) **2005m:76076**
Anderson, Alexander R. A. *see* **Stéphanou, A. et al.**
Artoli, Abdel Monim M. (*with* Kandhai, D.; Hoefsloot, H. C. J.; Hoekstra, Alfons G.; Sloot, Peter M. A.) Lattice Boltzmann, a robust and accurate solver for interactive computational hemodynamics. (English summary) (*see* **2005c:00014**)
Asghar, Saleem *see* **Hayat, Tasawar et al., 2005g:74044**
Bakırtaş, İlkay (*with* Demiray, Hilmi) Amplitude modulation of nonlinear waves in a fluid-filled tapered elastic tube. (English summary) **2005b:74037**
— (*with* Demiray, Hilmi) Weakly non-linear waves in a tapered elastic tube filled with an inviscid fluid. (English summary) **2005k:74028**
Bykova, A. A. (*with* Regirer, S. A.) Mathematical models in urinary system mechanics (review). (Russian. Russian summary)
Chaplain, Mark A. J. *see* **Stéphanou, A. et al.**
Chopard, Bastien *see* **Hirabayashi, Miki et al., (2005c:00014)**
Clark, Marlyn Earl *see* **Ruan, Weihua et al., 2005c:35186**
Cortez, Ricardo (*with* Peskin, Charles S.; Stockie, John M.; Varela, Douglas) Parametric resonance in immersed elastic boundaries. (English summary) **2005i:74026**
Curcio, Anthony *see* **Ruan, Weihua et al., 2005c:35186**
Damiano, Edward R. (*with* Stace, Thomas M.) Flow and deformation of the capillary glycocalyx in the wake of a leukocyte. (English summary)
Demiray, Hilmi Modulation of nonlinear waves in a fluid-filled elastic tube with stenosis. (English summary) **2005g:74042**
— On the existence of some evolution equations in fluid-filled elastic tubes and their progressive wave solutions. (English summary) **2005c:74021**
— On some nonlinear waves in fluid-filled viscoelastic tubes: weakly dispersive case. (English summary) **2005g:74043**
— *see also* **Bakırtaş, İlkay, 2005b:74037** *and* **2005k:74028**
El Hakeem Abd El Naby, Abd (*with* El Misery, A. E. M.; Abd El Kareem, M. F.) Separation in the flow through peristaltic motion of a Carreau fluid in uniform tube. (English summary) **2005f:76028**
El Misery, A. E. M. *see* **El Hakeem Abd El Naby, Abd et al., 2005f:76028**
El-Shahed, Mostafa Blood flow in a capillary with permeable wall. (English summary) **2005e:92014**
Epstein, Marcelo *see* **Nakhaie Jazar, Gholamreza et al.**
Eringen, A. Cemal A continuum theory of dense suspensions. (English summary) **2005m:76181**
Fu, Bingmei M. *see* **Sugihara-Seki, Masako**
Fukasaku, Kazuaki *see* **Yokoi, Kensuke et al.**
Hayat, Tasawar (*with* Wang, Yongqi; Hutter, Kolumban; Asghar, Saleem; Siddiqui, Abdul Majeed) Peristaltic transport of an Oldroyd-B fluid in a planar channel. **2005g:74044**
Hirabayashi, Miki (*with* Ohta, Makoto; Rüfenacht, Daniel A.; Chopard, Bastien) Lattice Boltzmann analysis of the flow reduction mechanism in stented cerebral aneurysms for the endovascular treatment. (English summary) (*see* **2005c:00014**)
Hoefsloot, H. C. J. *see* **Artoli, Abdel Monim M. et al., (2005c:00014)**
Hoekstra, Alfons G. *see* **Artoli, Abdel Monim M. et al., (2005c:00014)**
Hutter, Kolumban *see* **Hayat, Tasawar et al., 2005g:74044**
Jain, Madhu *see* **Sharma, G. C. et al.**
Johnson, Paul C. *see* **Popel, Aleksander S., (2005h:76002)**
Kandhai, D. *see* **Artoli, Abdel Monim M. et al., (2005c:00014)**
Kim, Michael B. *see* **King, Michael R. et al.**
King, Michael R. (*with* Ruscio, Aimee D.; Kim, Michael B.; Sarelius, Ingrid H.) Interactions between stably rolling leukocytes in vivo. (English summary)
Kozel, Karel *see* **Prokop, Vladimir, (2005j:65003)**
Kumar, A. *see* **Sharma, G. C. et al.**
(Larsen, Jesper K.) *see* **Applied mathematical models in human physiology, 2005f:92010**
Lavrenteva, O. M. *see* **Nir, A., (2005b:92016)**
Lim, Sookkyung (*with* Peskin, Charles S.) Simulations of the whirling instability by the immersed boundary method. (English summary) **2005f:74029**
Liu, Hao[3] *see* **N'Dri, N. et al., (2005b:92016)** *and* **Yokoi, Kensuke et al.**
Liu, Wing Kam *see* **Liu, Yaling et al., 2005h:92011**
Liu, Yaling (*with* Zhang, Lucy; Wang, Xiaodong; Liu, Wing Kam) Coupling of Navier-Stokes equations with protein molecular dynamics and its application to hemodynamics. (English summary) **2005h:92011**
Mahinfalah, Mohammad *see* **Nakhaie Jazar, Gholamreza et al.**
McDougall, S. R. *see* **Stéphanou, A. et al.**
Mikelić, Andro (*with* Primicerio, Mario) Blood perfusion in muscles: from microscopic models to continuum approach via homogenization. (English summary) (*see* **2005c:00016**)
Nakhaie Jazar, Gholamreza (*with* Mahinfalah, Mohammad; Rastgaar Aagaah, M.; Epstein, Marcelo) On the solitary waves in arteries. (English summary)
N'Dri, N. (*with* Shyy, W.; Liu, Hao[3]; Tran-Son-Tay, R.) Multi-scale modeling spanning from cell surface receptors to blood flow in arteries. (*see* **2005b:92016**)
Nir, A. (*with* Lavrenteva, O. M.) Capsule dynamics and interfacial transport. (English summary) (*see* **2005b:92016**)
Ohta, Makoto *see* **Hirabayashi, Miki et al., (2005c:00014)**
(Olufsen, Mette S.) *see* **Applied mathematical models in human physiology, 2005f:92010**
Ottesen, Johnny T. Symmetric compressions of a fluid filled torus of asymmetric elasticity generates mean flow of frequency dependent size and orientation. (English summary) (*see* **2005d:92001**)
— *see also* **Applied mathematical models in human physiology, 2005f:92010**
Peiró, J. *see* **Sherwin, Spencer J., (2005f:65003)**
Peskin, Charles S. *see* **Lim, Sookkyung, 2005f:74029** *and* **Cortez, Ricardo et al., 2005i:74026**
Popel, Aleksander S. (*with* Johnson, Paul C.) Microcirculation and hemorheology. (English summary) (*see* **2005h:76002**)
(Pozrikidis, C.) *see* **Modeling and simulation of capsules and biological cells, 2005b:92016**
Pralhad, R. N. (*with* Schultz, David H.) Modeling of arterial stenosis and its applications to blood diseases. (English summary) **2005c:92012**
Primicerio, Mario *see* **Mikelić, Andro, (2005c:00016)**
Prokop, Vladimir (*with* Kozel, Karel) Numerical modeling of bypass flow. (English summary) (*see* **2005j:65003**)
Rastgaar Aagaah, M. *see* **Nakhaie Jazar, Gholamreza et al.**
Regirer, S. A. *see* **Bykova, A. A.**
Ruan, Weihua (*with* Clark, Marlyn Earl; Zhao, Meide; Curcio, Anthony) A quasilinear hyperbolic system that models blood flow in a network. (English summary) **2005c:35186**
Rüfenacht, Daniel A. *see* **Hirabayashi, Miki et al., (2005c:00014)**
Ruscio, Aimee D. *see* **King, Michael R. et al.**
Sarelius, Ingrid H. *see* **King, Michael R. et al.**
Schultz, David H. *see* **Pralhad, R. N., 2005c:92012**
Secomb, T. W. Mechanics of red blood cells and blood flow in narrow tubes. (English summary) (*see* **2005b:92016**)
Selezov, I. T. Wave processes in fluids and elastic media. (English summary) **2005c:76020**
Sharma, G. C. (*with* Jain, Madhu; Kumar, A.) Performance modeling and analysis of blood flow in elastic arteries. (English summary)
Sherwin, Spencer J. (*with* Peiró, J.) Algorithms and arteries: multi-domain spectral/*hp* methods for vascular flow modelling. (*see* **2005f:65003**)
Shyy, W. *see* **N'Dri, N. et al., (2005b:92016)**
Siddiqui, Abdul Majeed *see* **Hayat, Tasawar et al., 2005g:74044**
Sloot, Peter M. A. *see* **Artoli, Abdel Monim M. et al., (2005c:00014)**
Stace, Thomas M. *see* **Damiano, Edward R.**
Stéphanou, A. (*with* McDougall, S. R.; Anderson, Alexander R. A.; Chaplain, Mark A. J.) Mathematical modelling of flow in 2D and 3D vascular networks: applications to anti-angiogenic and chemotherapeutic drug strategies. (English summary)
Stockie, John M. *see* **Cortez, Ricardo et al., 2005i:74026**
Sugihara-Seki, Masako (*with* Fu, Bingmei M.) Blood flow and permeability in microvessels. (English summary)
Surovtsova, Irina Application of the one dimensional model for blood flow to the vascular prosthesis. (English summary) (*see* **2005d:92001**)
Tran-Son-Tay, R. *see* **N'Dri, N. et al., (2005b:92016)**
Varela, Douglas *see* **Cortez, Ricardo et al., 2005i:74026**
Wang, Xiaodong *see* **Liu, Yaling et al., 2005h:92011**
Wang, Yongqi *see* **Hayat, Tasawar et al., 2005g:74044**
Xiao, Feng[1] *see* **Yokoi, Kensuke et al.**
Yokoi, Kensuke (*with* Xiao, Feng[1]; Liu, Hao[3]; Fukasaku, Kazuaki) Three-dimensional numerical simulation of flows with complex geometries in a regular Cartesian grid and its application to blood flow in cerebral artery with multiple aneurysms. (English summary)
Zhang, Lucy *see* **Liu, Yaling et al., 2005h:92011**
Zhao, Meide *see* **Ruan, Weihua et al., 2005c:35186**

Items listed otherwise than by author

Applied mathematical models in human physiology ★ Applied mathematical models in human physiology. **2005f:92010**
Modeling and simulation of capsules and biological cells ★ Modeling and simulation of capsules and biological cells. **2005b:92016**

76Z10 Biopropulsion in water and in air

Asghar, Saleem *see* **Hayat, Tasawar et al., 2005b:76148**

Hayat, Tasawar (*with* Wang, Yongqi; Siddiqui, Abdul Majeed; Asghar, Saleem) A mathematical model for the study of gliding motion of bacteria on a layer of non-Newtonian slime. (English summary) **2005b:76148**
— *see also* **Wang, Yongqi et al., 2005h:76103**
Iima, Makoto (*with* Yanagita, Tatsuo) Asymmetric motion of a two-dimensional symmetric flapping model. (English summary) **2005m:76208**
Oshima, Marie (*with* Sakai, Hiroyuki[2]; Torii, Ryo) Modelling of inflow boundary conditions for image-based simulation of cerebrovascular flow. (English summary)
Sakai, Hiroyuki[2] *see* **Oshima, Marie et al.**
Siddiqui, Abdul Majeed *see* **Hayat, Tasawar et al., 2005b:76148** *and* **Wang, Yongqi et al., 2005h:76103**
Torii, Ryo *see* **Oshima, Marie et al.**
Vorus, William S. Swimming of the semi-infinite strip revisited. (English summary) **2005j:76099**
Wang, Yongqi (*with* Hayat, Tasawar; Siddiqui, Abdul Majeed) Gliding motion of bacteria on power-law slime. (English summary) **2005h:76103**
— *see also* **Hayat, Tasawar et al., 2005b:76148**
Wang, Z. Jane Dissecting insect flight. (English summary) **2005i:76135**
Yanagita, Tatsuo *see* **Iima, Makoto, 2005m:76208**

Items with secondary classifications in 76Z10

Afanas′ev, Ya. D. Wakes behind towed and self-propelled bodies: asymptotic theory. (English summary) **2005b:76048**
Bertozzi, Andrea L. *see* **Topaz, Chad M., 2005h:92031**
Cortez, Ricardo (*with* Fauci, Lisa; Medovikov, A. A.) The method of regularized Stokeslets in three dimensions: analysis, validation, and application to helical swimming. (English summary) **2005k:76031**
Fauci, Lisa *see* **Cortez, Ricardo et al., 2005k:76031**
Lim, Sookkyung (*with* Peskin, Charles S.) Simulations of the whirling instability by the immersed boundary method. (English summary) **2005f:74029**
Medovikov, A. A. *see* **Cortez, Ricardo et al., 2005k:76031**
(Nodera, Takashi) *see* **Mathematics of destructive phenomena**
Peskin, Charles S. *see* **Lim, Sookkyung, 2005f:74029**
Sachs, Gottfried Aerodynamic yawing moment characteristics of bird wings. (English summary)
(Tani, Atusi) *see* **Mathematics of destructive phenomena**
Topaz, Chad M. (*with* Bertozzi, Andrea L.) Swarming patterns in a two-dimensional kinematic model for biological groups. (English summary) **2005h:92031**

Items listed otherwise than by author

Mathematics of destructive phenomena ★ Hakai genshō no sūri. [Mathematics of destructive phenomena]
Yokohama ★ Hakai genshō no sūri. [Mathematics of destructive phenomena]

76Z99 None of the above, but in this section

Baaijens, Frank P. T. *see* **Huyghe, Jacques M. et al., 2005m:76209**
El Hakeem Abd El Naby, Abd (*with* El Misery, A. E. M.; El Shamy, I. I.) Effects of an endoscope and fluid with variable viscosity on peristaltic motion. (English summary) **2005e:76096**
El Misery, A. E. M. *see* **El Hakeem Abd El Naby, Abd et al., 2005e:76096**
El Shamy, I. I. *see* **El Hakeem Abd El Naby, Abd et al., 2005e:76096**
Huyghe, Jacques M. (*with* Van Loon, R.; Baaijens, Frank P. T.) Fluid-solid mixtures and electrochemomechanics: the simplicity of Lagrangian mixture theory. (English summary) **2005m:76209**
Van Loon, R. *see* **Huyghe, Jacques M. et al., 2005m:76209**

Items with secondary classifications in 76Z99

Alt, Wolfgang Nonlinear hyperbolic systems of generalized Navier-Stokes type for interactive motion in biology. (English summary) **2005d:35197**
Aref, Hassan *see* **Stremler, Mark A. et al.**
Arruda, Ellen M. *see* **Garikipati, Krishna et al., 2005a:74069**
Blyth, M. G. (*with* Pozrikidis, C.) Solution space of axisymmetric capsules enclosed by elastic membranes. (English summary) **2005c:74019**
Calve, S. *see* **Garikipati, Krishna et al., 2005a:74069**
Chiragwandi, Z. *see* **Willander, M. et al., 2005h:76069**
Eley, R. R. *see* **Schwartz, L. W. et al., 2005i:76010**
Ferreira, C. P. *see* **Zacarias, G. D. et al.**
Fujioka, Hideki *see* **Wei, Hsien-Hung et al.**
Garikipati, Krishna (*with* Arruda, Ellen M.; Grosh, Karl; Narayanan, Harish; Calve, S.) A continuum treatment of growth in biological tissue: the coupling of mass transport and mechanics. (English summary) **2005a:74069**
Gaver, D. P., III *see* **Jacob, A. M.**
Gov, N. (*with* Zilman, A. G.; Safran, S.) Hydrodynamics of confined membranes. (English summary) **2005j:76007**
Grosh, Karl *see* **Garikipati, Krishna et al., 2005a:74069**
Grotberg, James B. *see* **Suresh, Vinod A.** *and* **Wei, Hsien-Hung et al.**
Haselton, F. R. *see* **Stremler, Mark A. et al.**
Heil, Matthias *see* **White, Joseph P., 2005k:74031**
Hirschl, Ronald B. *see* **Wei, Hsien-Hung et al.**
Jacob, A. M. (*with* Gaver, D. P., III) An investigation of the influence of cell topography on epithelial mechanical stresses during pulmonary airway reopening. (English summary)
Lega, J. (*with* Passot, T.) Hydrodynamics of bacterial colonies: phase diagrams. (English summary)
Mamontov, Yevgeny V. *see* **Willander, M. et al., 2005h:76069**
Narayanan, Harish *see* **Garikipati, Krishna et al., 2005a:74069**
Passot, T. *see* **Lega, J.**
Pozrikidis, C. *see* **Blyth, M. G., 2005c:74019**
Princen, H. M. *see* **Schwartz, L. W. et al., 2005i:76010**
Roy, R. V. *see* **Schwartz, L. W. et al., 2005i:76010**
Safran, S. *see* **Gov, N. et al., 2005j:76007**
Scholz, Markus An attempt to explain the ascent of sap in defoliated trees. (English summary) **2005c:92018**
Schwartz, L. W. (*with* Roy, R. V.; Eley, R. R.; Princen, H. M.) Surfactant-driven motion and splitting of droplets on a substrate. (English summary) **2005i:76010**
Stremler, Mark A. (*with* Haselton, F. R.; Aref, Hassan) Designing for chaos: applications of chaotic advection at the microscale. (English summary)
Suresh, Vinod A. (*with* Grotberg, James B.) The effect of gravity on liquid plug propagation in a two-dimensional channel. (English summary)
Velasco-Hernández, J. X. *see* **Zacarias, G. D. et al.**
Wei, Hsien-Hung (*with* Fujioka, Hideki; Hirschl, Ronald B.; Grotberg, James B.) A model of flow and surfactant transport in an oscillatory alveolus partially filled with liquid. (English summary)
White, Joseph P. (*with* Heil, Matthias) Three-dimensional instabilities of liquid-lined elastic tubes: a thin-film fluid-structure interaction model. (English summary) **2005k:74031**
Willander, M. (*with* Mamontov, Yevgeny V.; Chiragwandi, Z.) Modelling living fluids with the subdivision into the components in terms of probability distributions. (English summary) **2005h:76069**
Zacarias, G. D. (*with* Ferreira, C. P.; Velasco-Hernández, J. X.) Porosity and tortuosity relations as revealed by a mathematical model of biofilm structure. (English summary)
Zilman, A. G. *see* **Gov, N. et al., 2005j:76007**

78–XX Optics, electromagnetic theory {For quantum optics, see 81V80.}

78–01 Instructional exposition (textbooks, tutorial papers, etc.)

Chernogor, L. F. ★ Нелинейная радиофизика. (Russian. English, Russian and Ukrainian summaries) [Nonlinear radiophysics]

Items with secondary classifications in 78–01

Dushek, Omer (*with* Kuzmin, Sergiy V.) The fields of a moving point charge: a new derivation from Jefimenko's equations. (English summary) **2005m:78005**
Kuzmin, Sergiy V. *see* **Dushek, Omer**, **2005m:78005**
Lassas, Matti From coffee cup to surgery—looking over applications of mathematics. (Finnish)

78–02 Research exposition (monographs, survey articles)

Bettess, Peter Short-wave scattering: problems and techniques. (English summary) **2005b:78001**
Cao, Qunsheng *see* **Chen, Yinchao et al.**, **2005i:78001**
Chen, Yinchao (*with* Cao, Qunsheng; Mittra, Raj) ★ Multiresolution time domain scheme for electromagnetic engineering. **2005i:78001**
Gross, Paul W. (*with* Kotiuga, P. Robert) ★ Electromagnetic theory and computation: a topological approach. **2005d:78001**
Kotiuga, P. Robert *see* **Gross, Paul W.**, **2005d:78001**
Lindell, Ismo V. ★ Differential forms in electromagnetics. **2005d:78002**
Mittra, Raj *see* **Chen, Yinchao et al.**, **2005i:78001**
(Nagem, Raymond J.) *see* **Sommerfeld, Arnold**, **2005g:78001**
Nickelson, Liudmila (*with* Shugurov, Victor) ★ Singular integral equations' methods for the analysis of microwave structures.
(Priestley, Joseph) *see* **Sommerfeld, Arnold**, **2005g:78001**
(Sandri, Guido) *see* **Sommerfeld, Arnold**, **2005g:78001**
Shugurov, Victor *see* **Nickelson, Liudmila**
Sommerfeld, Arnold ★ Mathematical theory of diffraction. **2005g:78001**
Wolf, Kurt Bernardo ★ Geometric optics on phase space. **2005g:78002**
(Zampolli, Mario) *see* **Sommerfeld, Arnold**, **2005g:78001**

Items with secondary classifications in 78–02

Eom, Hyo J. ★ Electromagnetic wave theory for boundary-value problems. **2005b:35270**
Monk, P. B. ★ Finite element methods for Maxwell's equations. **2005d:65003**
Spohn, Herbert ★ Dynamics of charged particles and their radiation field. **2005g:81355**
Takács, Jenő ★ Mathematics of hysteretic phenomena. **2005m:82161**
(Trowbridge, Bill) *see* **Takács, Jenő**, **2005m:82161**
Vasiljević, Darko ★ Classical and evolutionary algorithms in the optimization of optical systems. **2005h:78003**

78–03 Historical (must also be assigned at least one classification number from Section 01)

(Einstein, Albert) *see* **Rynasiewicz, Robert**, **2005k:78001**
Rynasiewicz, Robert The optics and electrodynamics of 'On the electrodynamics of moving bodies'. **2005k:78001**

Items with secondary classifications in 78–03

Debnath, Lokenath Four major discoveries in applied mathematics during the second half of the twentieth century. (English summary) (*see* **2005m:00007**)
(Einstein, Albert) *see* **Norton, John D.**, **2005g:01026**
(Hilbert, David[1]) *see* **Kondrat'ev, E. F.**, (**2005f:00008**)
Kondrat'ev, E. F. David Hilbert and the axiomatization of physics. (Russian. English and Russian summaries) (*see* **2005f:00008**)
(da La Hire, Philippe) *see* **Mingari Scarpello, Giovanni**, **2005j:01008**
(Leibniz, Gottfried Wilhelm) *see* **Mingari Scarpello, Giovanni**, **2005j:01008**
Mingari Scarpello, Giovanni (*with* Scimone, Aldo) The work of Tschirnhaus, La Hire and Leibniz on catacaustics and the birth of the envelopes of lines in the 17th century. (English, French and Italian summaries) **2005j:01008**
(Nagem, Raymond J.) *see* **Sommerfeld, Arnold**, **2005g:78001**
Norton, John D. Einstein's investigations of Galilean covariant electrodynamics prior to 1905. (English summary) **2005g:01026**
(Priestley, Joseph) *see* **Sommerfeld, Arnold**, **2005g:78001**
Reignier, Jean De l'éther de Fresnel à la relativité restreinte. (English and French summaries) [From Fresnel's ether to special relativity] **2005g:83003**
(Sandri, Guido) *see* **Sommerfeld, Arnold**, **2005g:78001**
Scimone, Aldo *see* **Mingari Scarpello, Giovanni**, **2005j:01008**
Sommerfeld, Arnold ★ Mathematical theory of diffraction. **2005g:78001**
(von Tschirnhaus, Ehrenfried Walther) *see* **Mingari Scarpello, Giovanni**, **2005j:01008**
(Zampolli, Mario) *see* **Sommerfeld, Arnold**, **2005g:78001**

78–05 Experimental work

Items with secondary classifications in 78–05

Abramochkin, E. G. (*with* Volostnikov, V. G.) Rotating light fields and singular optics. (Russian. English and Russian summaries) **2005m:78016**
Volostnikov, V. G. *see* **Abramochkin, E. G.**, **2005m:78016**

78–06 Proceedings, conferences, collections, etc.

Bettess, Peter (*with* Laghrouche, Omar; Perrey-Debain, Emmanuel) Introduction [Short-wave scattering]. (English summary)
Krawczyk, Andrzej *see* **Trlep, Mladen et al.**
Laghrouche, Omar *see* **Bettess, Peter et al.**
Perrey-Debain, Emmanuel *see* **Bettess, Peter et al.**
Trlep, Mladen (*with* Krawczyk, Andrzej; Wiak, Sławomir) Editorial [Selected papers from the 11th International Symposium on Electromagnetic Fields in Electrical Engineering, ISEF 2003].
Wiak, Sławomir *see* **Trlep, Mladen et al.**

Items with secondary classifications in 78–06

Demkowicz, Leszek F. *see* **Whiteman, J. R.**
Dular, Patrick (*with* Hameyer, Kay; Henneberger, Gerhard) Preface [Special issue on The 6th International Symposium on Electric and Magnetic Fields (EMF)].
Hameyer, Kay *see* **Dular, Patrick et al.**
Henneberger, Gerhard *see* **Dular, Patrick et al.**
Whiteman, J. R. (*with* Demkowicz, Leszek F.) Preface [Selected papers from the 11th Conference on the Mathematics of Finite Elements and Applications (MAFELAP 2003)].

78Axx General

78A02 Foundations

Barriuso, Alberto G. (*with* Monzón, Juan J.; Sánchez-Soto, Luis L.; Cariñena, José F.) Vectorlike representation of multilayers. (English summary) **2005j:78001**
Belabas, Nadia (*with* Jonas, David M.) Three-dimensional view of signal propagation in femtosecond four-wave mixing with application to the boxcars geometry. (English summary) **2005j:78002**
Buonaura, B. Maxwell equations and inertial transformations. (English summary) **2005i:78002**
Cariñena, José F. *see* **Barriuso, Alberto G. et al.**, **2005j:78001**
Chernitskiĭ, A. A. Source function and dyon's field in Clifford number representation for electrodynamics. (English summary) **2005f:78001**
Christov, Christo I. On the analogy between the Maxwell electromagnetic field and the elastic continuum. (English summary)
Coll, Bartolomé Concepts for a theory of the electromagnetic field. (English summary)
Donev, Stoil From electromagnetic duality to extended electrodynamics. (English summary)
(Ferwerda, H. A.) *see* **Shendeleva, Margarita L.**
Flores, J. C. (*with* Utreras Díaz, C. A.) Faraday's effect for N-mesoscopic rings with charge discreteness. (English summary)
Hasanov, Elman A new theory of complex rays. (English summary) **2005h:78001**
Hiptmair, Ralf From E to edge elements. (English summary) **2005a:78001**
Jonas, David M. *see* **Belabas, Nadia**, **2005j:78002**
Kijowski, Jerzy (*with* Kościelecki, Marcin) On stability of renormalised classical electrodynamics. (English summary) **2005k:78002**
Kong, De Xing A nonlinear geometric equation related to electrodynamics. (English summary) **2005i:78003**
Kościelecki, Marcin *see* **Kijowski, Jerzy**, **2005k:78002**
Lindell, Ismo V. (*with* Wallén, K. H.) Generalized Q-media and field decomposition in differential-form approach. (English summary) **2005e:78001**
Monsiváis, G. The relativistic Ampère-Maxwell law in integral form. (English summary) **2005e:78002**
Montgomery, Hugh Current flow patterns in a Faraday disc. (English summary) **2005a:78002**
Monzón, Juan J. *see* **Barriuso, Alberto G. et al.**, **2005j:78001**
Raju, C. K. The electrodynamic 2-body problem and the origin of quantum mechanics. (English summary) **2005e:78003**
Salim, J. M. On the equivalence between nonlinear electrodynamics with one and two potentials. (English summary) **2005f:78002**
Sánchez-Soto, Luis L. *see* **Barriuso, Alberto G. et al.**, **2005j:78001**
Shendeleva, Margarita L. Radiative transfer in a turbid medium with a varying refractive index. Comment on: "The radiative transfer equation for scattering media with a spatially varying refractive index" [J. Opt. A Pure Appl. Opt. **1** (1999), L1–L2] by H. A. Ferwerda and "Derivation of the radiative transfer equation for scattering media with a spatially varying refractive index" [Opt. Commun. **228** (2003), 33–38] by J.-M. Tualle and E. Tinet. (English summary)
Spichak, Stanislav Invariance of Maxwell's equations under nonlinear representations of Poincaré algebra. (English summary)
(Tinet, E.) *see* **Shendeleva, Margarita L.**
(Tualle, J.-M.) *see* **Shendeleva, Margarita L.**
Utreras Díaz, C. A. *see* **Flores, J. C.**
van Vlaenderen, K. J. (*with* Waser, A.) Electrodynamics with the scalar field. (English summary)
Wallén, K. H. *see* **Lindell, Ismo V.**, **2005e:78001**
Waser, A. *see* **van Vlaenderen, K. J.**

Items with secondary classifications in 78A02

Başkal, Sibel (*with* Georgieva, Elena; Kim, Young Suh; Noz, Marilyn E.) Lorentz group in classical ray optics. (English summary) **2005c:83001**
Benci, Vieri (*with* Fortunato, Donato) Matter and electromagnetic fields: remarks on the dualistic and unitarian standpoints. (English summary) **2005k:35390**
Boudet, Roger On the potential of the Coulomb field and the gauge potentials; dialogue with a standard physicist. (English and French summaries) **2005e:81262**
Brio, Moysey *see* **Webb, Garry M. et al.**, **2005d:78014**
Burch, Aidan Histories electromagnetism. (English summary) **2005g:81179**
Chen, Li Qun *see* **Fu, Jing-Li**, **2005g:70032**
Fortunato, Donato *see* **Benci, Vieri**, **2005k:35390**
Frisch, Mathias Inconsistency in classical electrodynamics. (English summary) **2005g:00007**

Fu, Jing-Li (*with* Chen, Li Qun) On Noether symmetries and form invariance of mechanico-electrical systems. (English summary) **2005g:70032**
Garel, T. A Newtonian pre-introduction to gravitational lenses. (English summary)
Georgieva, Elena *see* **Başkal, Sibel et al., 2005c:83001**
Helffer, Bernard Semi-classical methods in Ginzburg-Landau theory. (English summary) **2005g:82136**
Jochmann, Frank Exponential decay of solutions of Maxwell's equations coupled with a first-order ordinary differential equation for the polarization. (English summary) **2005h:35334**
Kaiser, Gerald Energy-momentum conservation in pre-metric electrodynamics with magnetic charges. (English summary) **2005d:78004**
Kholmetskii, A. L. Remarks on momentum and energy flux of a non-radiating electromagnetic field. (English summary) **2005m:78001**
Kim, Young Suh *see* **Başkal, Sibel et al., 2005c:83001**
Moloney, Jerome V. *see* **Webb, Garry M. et al., 2005d:78014**
Noz, Marilyn E. *see* **Başkal, Sibel et al., 2005c:83001**
Puska, Perttu P. Plane field solutions of Maxwell equation. (English summary) **2005i:30082**
Rubinstein, Jacob (*with* Wolansky, Gershon) A variational principle in optics. (English summary) **2005i:35257**
Serre, Denis Hyperbolicity of the nonlinear models of Maxwell's equations. (English summary) **2005g:35282**
Shestopalov, Yu. V. (*with* Smirnov, Yu. G.) The diffraction in a class of unbounded domains connected through a hole. (English summary) **2005h:35023**
Smirnov, Yu. G. *see* **Shestopalov, Yu. V., 2005h:35023**
Sørensen, Mads Peter *see* **Webb, Garry M. et al., 2005d:78014**
Sprößig, Wolfgang Maxwell's equations in Clifford calculus framework—an overview on the development. (English summary) **2005d:35252**
Suslina, T. A. Averaging of a stationary periodic Maxwell system. (Russian. Russian summary) **2005h:35019**
— On the averaging of a periodic Maxwell system. (Russian) **2005g:35017**
Tarulli, Mirko Resolvent estimates for scalar fields with electromagnetic perturbation. (English summary) **2005h:35259**
Visintin, A. Maxwell's equations with vector hysteresis. (English summary) **2005k:35398**
Webb, Garry M. (*with* Sørensen, Mads Peter; Brio, Moysey; Zakharian, Aramis R.; Moloney, Jerome V.) Variational principles, Lie point symmetries, and similarity solutions of the vector Maxwell equations in non-linear optics. (English summary) **2005d:78014**
Wilhelm, H. E. Galilei versus Lorentz covariant electrodynamics and moving media. (English summary) **2005i:35259**
Wolansky, Gershon *see* **Rubinstein, Jacob, 2005i:35257**
Zakharian, Aramis R. *see* **Webb, Garry M. et al., 2005d:78014**

78A05 Geometric optics

Avendaño-Alejo, Maximino (*with* Rosete-Aguilar, Martha) Paraxial theory for birefringent lenses. (English summary)
Bass, Fridrikh G. (*with* Freilikher, V.; Maradudin, A. A.; Prosentsov, V.) Geometrical optics approximation for nonlinear equations. (English summary) **2005c:78001**
Bazzani, Armando (*with* Freguglia, Paolo) An optical geometric model of the betatronic motion. (English summary) (*see* **2005a:00015**)
Benamou, Jean-David (*with* Lafitte, Olivier; Sentis, Rémi; Solliec, Ian) A Eulerian geometric optics method for high frequency electromagnetic fields computations in presence of fold caustics. (English summary) (*see* **2005b:00020**)
— (*with* Lafitte, Olivier; Solliec, Ian; Sentis, Rémi) A geometric optics method for high-frequency electromagnetic fields computations near fold caustics. II. The energy. (English summary) **2005d:78003**
Borghero, Francesco (*with* Bozis, George) A two-dimensional inverse problem of geometrical optics. (English summary) **2005k:78003**
Bozis, George *see* **Borghero, Francesco, 2005k:78003**
Dana-Picard, Thierry Retroreflection. (English summary) **2005i:78004**
Freguglia, Paolo *see* **Bazzani, Armando, (2005a:00015)**
Freilikher, V. *see* **Bass, Fridrikh G. et al., 2005c:78001**
Harris, William F. Mathematical issues in vision and optometry. (English summary)
Hasanov, Elman (*with* Polat, Burak) A method for calculating the profiles of thick lenses. (English summary) **2005h:78002**
Konopel'chenko, B. G. (*with* Moro, Antonio) Integrable equations in nonlinear geometrical optics. (English summary) **2005e:78004**
Lafitte, Olivier *see* **Benamou, Jean-David et al., 2005d:78003** *and* **(2005b:00020)**
Maradudin, A. A. *see* **Bass, Fridrikh G. et al., 2005c:78001**
Moro, Antonio *see* **Konopel'chenko, B. G., 2005e:78004**
Polat, Burak *see* **Hasanov, Elman, 2005h:78002**
Prosentsov, V. *see* **Bass, Fridrikh G. et al., 2005c:78001**
Rosete-Aguilar, Martha *see* **Avendaño-Alejo, Maximino**
Sentis, Rémi *see* **Benamou, Jean-David et al., 2005d:78003** *and* **(2005b:00020)**
Solliec, Ian *see* **Benamou, Jean-David et al., 2005d:78003** *and* **(2005b:00020)**

Items with secondary classifications in 78A05

Arnold, David V. *see* **Warnick, Karl F. et al.**
Belaidi, Ahmed *see* **Joets, Alain et al., 2005h:58078**
Benamou, Jean-David (*with* Collino, Francis; Runborg, Olof) Numerical microlocal analysis of harmonic wavefields. (English summary) **2005e:65202**
Boucheres, T. (*with* Colin, Thierry; Nkonga, B.; Texier, Benjamin; Bourgeade, Antoine) Study of a mathematical model for stimulated Raman scattering. (English summary) **2005g:78020**
Bourgeade, Antoine *see* **Boucheres, T. et al., 2005g:78020**
Colin, Thierry *see* **Boucheres, T. et al., 2005g:78020**
Collino, Francis *see* **Benamou, Jean-David et al., 2005e:65202**
Crasser, O. (*with* Mack, Holger; Schleich, W. P.) Could Fresnel optics be quantum mechanics in phase space? (English summary) **2005a:81122**
Dominici, Diego (*with* Knessl, Charles) Geometrical optics approach to Markov-modulated fluid models. (English summary) **2005h:34011**
Glimm, Tilmann (*with* Oliker, Vladimir) Optical design of two-reflector systems, the Monge-Kantorovich mass transfer problem and Fermat's principle. (English summary) **2005f:49095**
Ikehata, Masaru Complex geometrical optics solutions and inverse crack problems. (English summary) **2005h:35360**
Joets, Alain (*with* Belaidi, Ahmed; Ribotta, Roland) Symmetric caustics and Curie's principle. (English summary) **2005h:58078**
Knessl, Charles *see* **Dominici, Diego, 2005h:34011**
Leung, Shingyu (*with* Qian, Jianliang; Osher, Stanley) A level set method for three-dimensional paraxial geometrical optics with multiple point sources. (English summary) **2005h:76074**
Mack, Holger *see* **Crasser, O. et al., 2005a:81122**
Magnanini, Rolando (*with* Talenti, Giorgio) On complex-valued solutions to a two-dimensional eikonal equation. II. Existence theorems. (English summary) **2005c:35276**
Melrose, Richard B. Geometric optics and the bottom of the spectrum. (English summary) **2005b:58050**
Millet, Floyd W. *see* **Warnick, Karl F. et al.**
Nkonga, B. *see* **Boucheres, T. et al., 2005g:78020**
Oliker, Vladimir *see* **Glimm, Tilmann, 2005f:49095**
Osher, Stanley *see* **Leung, Shingyu et al., 2005h:76074**
Qian, Jianliang *see* **Leung, Shingyu et al., 2005h:76074**
Ribotta, Roland *see* **Joets, Alain et al., 2005h:58078**
Runborg, Olof *see* **Benamou, Jean-David et al., 2005e:65202**
Schleich, W. P. *see* **Crasser, O. et al., 2005a:81122**
Schnürer, Oliver C. Flows towards reflectors. (English summary) **2005g:35281**
Sun, Wen-hua *see* **Yang, Han Chun**
Talenti, Giorgio *see* **Magnanini, Rolando, 2005c:35276**
Texier, Benjamin *see* **Boucheres, T. et al., 2005g:78020**
Warnick, Karl F. (*with* Millet, Floyd W.; Arnold, David V.) Physical and geometrical optics for 2-D rough surfaces with power-law height spectra. (English summary)
Wolf, Kurt Bernardo ★ Geometric optics on phase space. **2005g:78002**
Yang, Han Chun (*with* Sun, Wen-hua) On a nonstrictly hyperbolic system of conservation laws in nonlinear geometric optics. (English summary)

78A10 Physical optics

Acosta, Eva (*with* Vazquez, Daniel; Garner, Leon; Smith, George) Tomographic method for measurement of the gradient refractive index of the crystalline lens. I. The spherical fish lens. (English summary)
Arvo, James *see* **Chen, Min[8], 2005b:78002**
Bedeaux, Dick (*with* Osipov, Mikhail A.; Vlieger, Jan) Reflection of light at structured chiral interfaces. (English summary) **2005j:78003**
Bienstman, Peter *see* **Pissoort, Davy et al., 2005j:78005**
Chen, Min[8] (*with* Arvo, James) Analytical solution for irradiance due to inhomogeneous Lambertian polygonal emitters. (English summary) **2005b:78002**
Chi, Wanli (*with* George, Nicholas) Erratum: "Computational imaging with the logarithmic asphere: theory" [J. Opt. Soc. Amer. A **20** (2003), no. 12, 2260–2273; MR2025919].
Denecker, Bart *see* **Pissoort, Davy et al., 2005j:78005**
De Zutter, Daniël *see* **Pissoort, Davy et al., 2005j:78005**
Diehl, Damon W. (*with* Visser, Taco D.) Phase singularities of the longitudinal field components in the focal region of a high-aperture optical system. (English summary) **2005k:78004**
Dogariu, Aristide *see* **Mujat, Mircea et al., 2005i:78005** *and* **Ellis, Jeremy**
Ellis, Jeremy (*with* Dogariu, Aristide) Differentiation of globally unpolarized complex random fields. (English summary)
Engelberg, Yaakov M. (*with* Ruschin, Shlomo) Fast method for physical optics propagation of high-numerical-aperture beams. (English summary) **2005j:78004**
Garner, Leon *see* **Acosta, Eva et al.**
George, Nicholas *see* **Chi, Wanli** *and* **Khare, Kedar**
Gjurchinovski, Aleksandar Einstein's mirror and Fermat's principle of least time. (English summary)
Hammer, Hanno Characteristic parameters in integrated photoelasticity: an application of Poincaré's equivalence theorem. (English summary) **2005a:78003**
Horváth, Pavel (*with* Hrabovský, Miroslav; Šmíd, Petr) Full theory of speckle displacement and decorrelation in the image field by wave and geometrical descriptions and its application in mechanics. (English summary) **2005c:78002**
Hrabovský, Miroslav *see* **Horváth, Pavel et al., 2005c:78002**
Khare, Kedar (*with* George, Nicholas) Sampling-theory approach to eigenwavefronts of imaging systems. (English summary)
Mujat, Mircea (*with* Dogariu, Aristide; Wolf, Emil) A law of interference of electromagnetic beams of any state of coherence and polarization and the Fresnel-Arago interference laws. (English summary) **2005i:78005**
Olyslager, Frank *see* **Pissoort, Davy et al., 2005j:78005**
Osipov, Mikhail A. *see* **Bedeaux, Dick et al., 2005j:78003**
Pissoort, Davy (*with* Denecker, Bart; Bienstman, Peter; Olyslager, Frank; De Zutter, Daniël) Comparative study of three methods for the simulation of two-dimensional photonic crystals. (English summary) **2005j:78005**
Ruschin, Shlomo *see* **Engelberg, Yaakov M., 2005j:78004**
Semichaevsky, Andrey (*with* Testorf, Markus) Phase-space interpretation of deterministic phase retrieval. (English summary) **2005j:78006**
Sheppard, Colin J. R. Orthogonal aberration functions for high-aperture optical systems. (English summary) **2005c:78003**
— Erratum: "Orthogonal aberration functions for high-aperture optical systems" [J. Opt. Soc. Amer. A **21** (2004), no. 5, 832–838; MR2087682 (2005c:78003)]. (English summary) **2005j:78007**
Šmíd, Petr *see* **Horváth, Pavel et al., 2005c:78002**
Smith, George *see* **Acosta, Eva et al.**

Testorf, Markus *see* **Semichaevsky, Andrey, 2005j:78006**
Vasiljević, Darko ★ Classical and evolutionary algorithms in the optimization of optical systems. **2005h:78003**
Vazquez, Daniel *see* **Acosta, Eva et al.**
Visser, Taco D. *see* **Diehl, Damon W., 2005k:78004**
Vlieger, Jan *see* **Bedeaux, Dick et al., 2005j:78003**
Wolf, Emil *see* **Mujat, Mircea et al., 2005i:78005**

Items with secondary classifications in 78A10

Arnold, David V. *see* **Warnick, Karl F. et al.**
Bae, Jinho (*with* Chun, Joohwan; Kailath, Thomas) The Schur algorithm applied to the design of optical multi-mirror structures. (English summary) **2005j:65025**
Bondo, Torsten (*with* Sørensen, Stig Busk) Physical optics analysis of beam waveguides using auxiliary planes. (English summary)
Castañeda R., Cuauhtémoc H. *see* **Santiago-Alvarado, A. et al., 2005g:90080**
Chun, Joohwan *see* **Bae, Jinho et al., 2005j:65025**
Ellerbroek, Brent L. Linear systems modeling of adaptive optics in the spatial-frequency domain. (English summary)
Jaffe, Robert *see* **Scardicchio, A., 2005i:81189**
Kailath, Thomas *see* **Bae, Jinho et al., 2005j:65025**
Lipcanu, Minodora The astronomical refraction and the Fermat's principle. (English summary) **2005d:85001**
Millet, Floyd W. *see* **Warnick, Karl F. et al.**
Nivón-Santiago, R. *see* **Santiago-Alvarado, A. et al., 2005g:90080**
Santiago-Alvarado, A. (*with* Vázquez-Montiel, S.; Nivón-Santiago, R.; Castañeda R., Cuauhtémoc H.) Using linear programming to determine the geometric parameters of convex conical surfaces. (Spanish. English and Spanish summaries) **2005g:90080**
Scardicchio, A. (*with* Jaffe, Robert) Casimir effects: an optical approach. I. Foundations and examples. (English summary) **2005i:81189**
Sørensen, Stig Busk *see* **Bondo, Torsten**
Vázquez-Montiel, S. *see* **Santiago-Alvarado, A. et al., 2005g:90080**
Warnick, Karl F. (*with* Millet, Floyd W.; Arnold, David V.) Physical and geometrical optics for 2-D rough surfaces with power-law height spectra. (English summary)

78A15 Electron optics

Yener, Namik A novel computational method for group velocity in metallic waveguides. (English summary) **2005g:78003**

Items with secondary classifications in 78A15

Caulfield, H. John (*with* Westphal, Jonathan) The logic of optics and the optics of logic. (English summary) **2005a:03055**
Westphal, Jonathan *see* **Caulfield, H. John, 2005a:03055**

78A20 Space charge waves

Items with secondary classifications in 78A20

Imaikin, Valeriĭ M. (*with* Komech, Alexander; Spohn, Herbert) Rotating charge coupled to the Maxwell field: scattering theory and adiabatic limit. (English summary) **2005e:35222**
Komech, Alexander *see* **Imaikin, Valeriĭ M. et al., 2005e:35222**
Spohn, Herbert *see* **Imaikin, Valeriĭ M. et al., 2005e:35222**

78A25 Electromagnetic theory, general

Abo Seliem, Adel A. S. Evaluation of the transient electromagnetic field in evaporation duct. (English summary) **2005i:78006**
— Electromagnetic field of transient signals above a dielectric layer. (English summary) **2005h:78004**
Adams, Robert J. Physical and analytical properties of a stabilized electric field integral equation. (English summary) **2005b:78003**
Alonso, Miguel Angel Wigner functions for nonparaxial, arbitrarily polarized electromagnetic wave fields in free space. (English summary) **2005j:78008**
Altaĭskiĭ, M. V. The Langevin equation with scale-dependent noise. (Russian)
Amendola, Giovambattista On the asymptotic behaviour for an electromagnetic system with a dissipative boundary condition. (English summary) **2005k:78005**
Angelov, Vasil G. On the method of successive approximations for the J. L. Synge electromagnetic two-body problem. (English summary) **2005j:78009**
Banks, H. T. (*with* Bardsley, Johnathan M.) Parameter identification for a dispersive dielectric in 2D electromagnetics: foward and inverse methodology with statistical considerations. (English summary)
Bao, Gang[1] Recent mathematical studies in the modeling of optics and electromagnetics. (English summary) **2005c:78004**
Bao, Weizhu (*with* Li, Xiang-Gui) An efficient and stable numerical method for the Maxwell-Dirac system. (English summary) **2005e:78005**
Bardsley, Johnathan M. *see* **Banks, H. T.**
Barkovskiĭ, L. M. *see* **Galynsky, V. M. et al., 2005g:78006**
Bastos, J. P. A. *see* **Gyselinck, Johan et al.**
Benci, Vieri (*with* Fortunato, Donato) Towards a unified field theory for classical electrodynamics. (English summary) **2005g:78004**
Biro, Thomas (*with* Nilsson, Börje) A wave splitting formulation for wave propagation of guided waves. (English summary) **2005a:78004**
v. Bodecker, Hanno (*with* Hornig, Gunnar) Link invariants of electromagnetic fields. (English summary) **2005h:78005**
Caltenco, J. H. (*with* López-Bonilla, J. L.; Martinez, Marco A.; Xeque-Morales, A.) Lorentz equation for constant electromagnetic fields. (English summary) **2005e:78006**
Costabel, Martin (*with* Dauge, Monique; Nicaise, Serge) Corner singularities of Maxwell interface and eddy current problems. (English summary) **2005c:78005**
Darve, Eric (*with* Havé, Pascal) A fast multipole method for Maxwell equations stable at all frequencies. (English summary) **2005g:78005**
Dauge, Monique *see* **Costabel, Martin et al., 2005c:78005**
Dmitriev, Vladimir Ivanovich (*with* Egorov, I. V.) Integral equation method estimating the effect of the electromagnetic field on extended conductors. (English summary) **2005c:78006**
Dular, Patrick *see* **Gyselinck, Johan et al.**
Egorov, I. V. *see* **Dmitriev, Vladimir Ivanovich, 2005c:78006**
Eller, Matthias M. Unique continuation for solutions to Maxwell's system with non-analytic anisotropic coefficients. (English summary) **2005h:78006**
Fortunato, Donato *see* **Benci, Vieri, 2005g:78004**
Friberg, Ari T. *see* **Tervo, Jani et al., 2005j:78014**
Furs, A. N. *see* **Galynsky, V. M. et al., 2005g:78006**
Galynsky, V. M. (*with* Furs, A. N.; Barkovskiĭ, L. M.) Integral formalism for surface electromagnetic waves in bianisotropic media. (English summary) **2005g:78006**
Garcia, Emmanuelle (*with* Labrunie, Simon) Space-time regularity of the solution to Maxwell's equations in non-convex domains. (English summary) (*see* **2005b:00020**)
Grudskiĭ, Sergeĭ M. (*with* Khmelnytskaya, Kira V.; Kravchenko, Vladislav V.) On a quaternionic Maxwell equation for the time-dependent electromagnetic field in a chiral medium. (English summary) **2005h:78007**
Gyselinck, Johan (*with* Dular, Patrick; Sadowski, N.; Leite, J.; Bastos, J. P. A.) Incorporation of a Jiles-Atherton vector hysteresis model in 2D FE magnetic field computations application of the Newton-Raphson method. (English summary)
Havé, Pascal *see* **Darve, Eric, 2005g:78005**
Hornig, Gunnar *see* **v. Bodecker, Hanno, 2005h:78005**
Ivanov, V. Ya. (*with* Krasnykh, A.) Mixed numerical-analytical computations in 3D problems of physical electronics by the boundary element method. (English summary) **2005j:78010**
Janaswamy, Ramakrishna A note on the TE/TM decomposition of electromagnetic fields in three dimensional homogeneous space. (English summary)
Jancewicz, Bernard Transition from three to four dimensions in the differential-form formulation of electrodynamics. (English summary) **2005e:78007**
Jefimenko, Oleg D. Presenting electromagnetic theory in accordance with the principle of causality. (English summary) **2005c:78007**
Jeong, Jaehoon *see* **Nevels, Robert**
Jochmann, Frank Nonlinear Maxwell-equations in the thin-film limit. (English summary) **2005i:78007**
Kaiser, Gerald Energy-momentum conservation in pre-metric electrodynamics with magnetic charges. (English summary) **2005d:78004**
Khanna, F. C. *see* **de Montigny, M. et al., 2005e:78008**
Khmelnytskaya, Kira V. *see* **Grudskiĭ, Sergeĭ M. et al., 2005h:78007**
Kholmetskiĭ, A. L. Remarks on momentum and energy flux of a non-radiating electromagnetic field. (English summary) **2005m:78001**
Kleiza, V. Calculation of the Hall effect parameters. (English summary) (*see* **2005c:65004**)
Korotkova, Olga (*with* Wolf, Emil) Spectral degree of coherence of a random three-dimensional electromagnetic field. (English summary) **2005j:78011**
Krasnykh, A. *see* **Ivanov, V. Ya., 2005j:78010**
Kravchenko, Vladislav V. *see* **Grudskiĭ, Sergeĭ M. et al., 2005h:78007**
Labrunie, Simon *see* **Garcia, Emmanuelle, (2005b:00020)**
de Lange, O. L. *see* **Raab, R. E., 2005j:78013**
Leite, J. *see* **Gyselinck, Johan et al.**
Li, Fengyan *see* **Ying, Long An, 2005b:78006**
Li, Xiang-Gui *see* **Bao, Weizhu, 2005e:78005**
Loeper, Grégoire (*with* Vasseur, Alexis) Electric turbulence in a plasma subject to a strong magnetic field. (English summary) **2005j:78012**
Lohöfer, G. An electrically conducting sphere in a three-dimensional, alternating magnetic field. (English summary) **2005b:78004**
López-Bonilla, J. L. *see* **Caltenco, J. H. et al., 2005e:78006**
Magnus, Wim (*with* Schoenmaker, Wim) Introduction to electromagnetism.
Malament, David B. On the time reversal invariance of classical electromagnetic theory (English summary) **2005d:78005**
Martinez, Marco A. *see* **Caltenco, J. H. et al., 2005e:78006**
de Montigny, M. (*with* Khanna, F. C.; Santana, A. E.) Physical applications of a five-dimensional metric formulation of Galilean invariance. (English summary) **2005e:78008**
Moses, Harry E. (*with* Prosser, R. T.) Errata: "The general solution of the time-dependent Maxwell's equations in an infinite medium with constant conductivity" [Proc. Roy. Soc. London Ser. A **431** (1990), no. 1883, 493–507; MR1086355 (91k:78006)]
Nevels, Robert (*with* Jeong, Jaehoon) The time domain Green's function and propagator for Maxwell's equations. (English summary)
Nicaise, Serge *see* **Costabel, Martin et al., 2005c:78005**
Nilsson, Börje *see* **Biro, Thomas, 2005a:78004**
Özer, Saadet (*with* Şuhubi, Erdoğan S.) Equivalence groups for first-order balance equations and applications to electromagnetism. (Russian. Russian summary) **2005d:78006**
Palmer, B. S. Current density and forces for a current loop moving parallel over a thin conducting sheet. (English summary) **2005e:78009**
Popović, Nikola (*with* Praetorius, Dirk) Applications of $\mathscr{H}$-matrix techniques in micromagnetics. (English summary) **2005m:78002**
Praetorius, Dirk *see* **Popović, Nikola, 2005m:78002**
Prosser, R. T. *see* **Moses, Harry E.**
Raab, R. E. (*with* de Lange, O. L.) Transformed multipole theory of the response fields D and H to electric octopole-magnetic quadrupole order. (English summary) **2005j:78013**
Rousseaux, Germain On the physical meaning of the gauge conditions of classical electromagnetism: the hydrodynamics analogue viewpoint. (English summary) **2005b:78005**
Rynasiewicz, Robert Field unification in the Maxwell-Lorentz theory with absolute space. (English summary) **2005a:78005**
Sadowski, N. *see* **Gyselinck, Johan et al.**
Santana, A. E. *see* **de Montigny, M. et al., 2005e:78008**
Schoenmaker, Wim *see* **Magnus, Wim**
Setälä, Tero *see* **Tervo, Jani et al., 2005j:78014**
Shakhverdiev, Sh. S. General geometry and geometry of electromagnetism. (English summary) (*see* **2005a:00012**)

Singh, Kalpana (*with* Singh, Ram Pal[3]) Simulation of electromagnetic signals propagating through magnetoplasma. (English summary)
Singh, Ram Pal[3] *see* **Singh, Kalpana**
Stratis, Ioannis G. (*with* Yannacopoulos, Athanasios N.) Electromagnetic fields in linear and nonlinear chiral media: a time-domain analysis. **2005c:78008**
Şuhubi, Erdoğan S. *see* **Özer, Saadet, 2005d:78006**
Tervo, Jani (*with* Setälä, Tero; Friberg, Ari T.) Theory of partially coherent electromagnetic fields in the space-frequency domain. (English summary) **2005j:78014**
Vasseur, Alexis *see* **Loeper, Grégoire, 2005j:78012**
Wolf, Emil *see* **Korotkova, Olga, 2005j:78011**
Xeque-Morales, A. *see* **Caltenco, J. H. et al., 2005e:78006**
Yakhno, V. G. Constructing Green's function for the time-dependent Maxwell system in anisotropic dielectrics. (English summary) **2005j:78015**
Yannacopoulos, Athanasios N. *see* **Stratis, Ioannis G., 2005c:78008**
Ying, Long An (*with* Li, Fengyan) Exterior problem of the Darwin model and its numerical computation. (English summary) **2005b:78006**

Items with secondary classifications in 78A25

Adams, Robert J. (*with* Champagne, Nathan J., II) A numerical implementation of a modified form of the electric field integral equation. (English summary)
Alekseeva, L. A. Hamiltonian form of the Maxwell equations and its generalized solutions. (Russian. Russian summary) **2005k:35388**
Alonso Rodríguez, Ana (*with* Hiptmair, Ralf; Valli, Alberto) Mixed finite element approximation of eddy current problems. (English summary) **2005d:65162**
Armour, Rollin S., Jr. Spin-$\frac{1}{2}$ Maxwell fields. (English summary) **2005f:81098**
Banks, H. T. (*with* Gibson, Nathan L.) Well-posedness in Maxwell systems with distributions of polarization relaxation parameters. (English summary) **2005i:35253**
Bayro-Corrochano, Eduardo (*with* Lounesto, Pertti; Puska, Perttu P.) Covariances of the Dirac and Maxwell equations. **2005g:81145**
Benci, Vieri (*with* Fortunato, Donato) A strongly degenerate elliptic equation arising from the semilinear Maxwell equations. (English and French summaries) **2005h:35126**
Bochev, Pavel B. (*with* Garasi, Christopher J.; Hu, Jonathan J.; Robinson, Allen C.; Tuminaro, Raymond S.) An improved algebraic multigrid method for solving Maxwell's equations. (English summary) **2005h:65241**
Brandenburg, Axel (*with* Matthaeus, William H.) Magnetic helicity evolution in a periodic domain with imposed field. (English summary) **2005f:76109**
Brenier, Yann Extension of the Monge-Kantorovich theory to classical electrodynamics. (English summary) **2005c:49077**
— A note on deformations of 2D fluid motions using 3D Born-Infeld equations. (English summary) **2005a:76067**
Cardoso, J. G. Explicit twistor expressions for complexified Maxwell fields. (English summary) **2005m:81146**
Champagne, Nathan J., II *see* **Adams, Robert J.**
Chikilëv, A. O. *see* **Krutitskiĭ, P. A.**
Ciarlet, Patrick, Jr. (*with* Garcia, Emmanuelle; Zou, Jun) Solving Maxwell equations in 3D prismatic domains. (English and French summaries) **2005h:35332**
Costabel, Martin (*with* Dauge, Monique; Nicaise, Serge) Singularities of eddy current problems. (English summary) **2005a:35265**
Costa De Beauregard, O. To believe or not believe in the 4-potential, that's a question. The electric Helmholtz-Mikhailov effect and its magnetic analog. (English summary) **2005m:78004**
Cougo-Pinto, M. V. (*with* Farina de Souza, Carlos; Mendes, J. F. M.) Casimir effect in kappa deformed electrodynamics. (English summary) **2005g:81351**
Dauge, Monique *see* **Costabel, Martin et al., 2005a:35265**
Ditkowski, Adi (*with* Gottlieb, David) On the Engquist Majda absorbing boundary conditions for hyperbolic systems. (English summary) **2005d:35247**
Edelen, Dominic G. B. ★ Applied exterior calculus. **2005h:58002**
Farina de Souza, Carlos *see* **Cougo-Pinto, M. V. et al., 2005g:81351**
Fortunato, Donato *see* **Benci, Vieri, 2005h:35126**
Garasi, Christopher J. *see* **Bochev, Pavel B. et al., 2005h:65241**
Garcia, Emmanuelle *see* **Ciarlet, Patrick, Jr. et al., 2005h:35332**
Gibson, Nathan L. *see* **Banks, H. T., 2005i:35253**
Gottlieb, David *see* **Ditkowski, Adi, 2005d:35247**
Gunzburger, Max D. (*with* Ladyzhenskaya, Ol'ga Aleksandrovna; Peterson, Janet S.) On the global unique solvability of initial-boundary value problems for the coupled modified Navier-Stokes and Maxwell equations. (English summary) **2005h:35269**
Hesthaven, Jan S. (*with* Warburton, Timothy) High-order nodal discontinuous Galerkin methods for the Maxwell eigenvalue problem. (English summary)
Hiptmair, Ralf *see* **Alonso Rodríguez, Ana et al., 2005d:65162**
Hnizdo, Vladimir Potentials of a uniformly moving point charge in the Coulomb gauge. (English summary) **2005m:78006**
Hu, Jonathan J. *see* **Bochev, Pavel B. et al., 2005h:65241**
Hu, Qi Ya (*with* Zou, Jun) A nonoverlapping domain decomposition method for Maxwell's equations in three dimensions. (English summary) **2005a:65131**
Iftimie, Viorel Uniqueness and existence of the integrated density of states for Schrödinger operators with magnetic field and electric potential with singular negative part. (English summary) **2005m:35062**
Jaekel, Marc-Thierry (*with* Reynaud, Serge) Space-time localization with electromagnetic fields. (English summary) **2005i:81014**
Jochmann, Frank Energy decay of solutions to Maxwell's equations with conductivity and polarization. (English summary) **2005g:35280**
Kaiser, Gerald Physical wavelets and their sources: real physics in complex spacetime. (English summary) **2005a:81098**
Kijowski, Jerzy (*with* Kościelecki, Marcin) On stability of renormalised classical electrodynamics. (English summary) **2005k:78002**
Kochan, Denis Grassmann electrodynamics and general relativity. (English summary) **2005i:58005**
Kościelecki, Marcin *see* **Kijowski, Jerzy, 2005k:78002**
Kovachev, Lubomir M. Optical vortices in dispersive nonlinear Kerr-type media. (English summary) **2005b:35260**
Kravchenko, Vladislav V. On force free magnetic fields. Quaternionic approach. (English summary) **2005h:76089**
Kristensson, Gerhard *see* **Wellander, Niklas, 2005g:35018**
Krutitskiĭ, P. A. (*with* Chikilëv, A. O.) A mixed boundary value problem in the physics of magnetized semi-conductors in an interior domain with cuts. (Russian. Russian summary)
Kurylev, Yaroslav V. (*with* Lassas, Matti; Somersalo, Erkki) Focusing waves in electromagnetic inverse problems. **2005e:35252**
Ladyzhenskaya, Ol'ga Aleksandrovna *see* **Gunzburger, Max D. et al., 2005h:35269**
Lassas, Matti *see* **Kurylev, Yaroslav V. et al., 2005e:35252**
Ławrynowicz, Julian From Charzyński parametrization of algebraic functions to the variational principle interpreted as the first principle of thermodynamics in the presence of electromagnetic field. (English and Polish summaries) **2005h:30036**
Lindell, Ismo V. ★ Differential forms in electromagnetics. **2005d:78002**
Lionheart, William R. B. Geometric methods for anisotopic inverse boundary value problems. [Geometric methods for anisotropic inverse boundary value problems] **2005a:35280**
Loseva, N. N. *see* **Mironova, E. M., (2005m:00006)**
Lötstedt, Per (*with* Nilsson, Martin[2]) A minimal residual interpolation method for linear equations with multiple right-hand sides. (English summary) **2005g:65062**
Lounesto, Pertti *see* **Bayro-Corrochano, Eduardo et al., 2005g:81145**
Mashhoon, Bahram Vacuum electrodynamics of accelerated systems: nonlocal Maxwell's equations. (English summary) **2005a:83050**
Matthaeus, William H. *see* **Brandenburg, Axel, 2005f:76109**
Matyukevich, S. I. On the nonstationary Maxwell system in domains with edges. (Russian) **2005d:35251**
Meister, Erhard (*with* Meister, L.) Quaternion boundary value problems for canonical objects in continuum physics. (English summary) **2005k:30098**
Meister, L. *see* **Meister, Erhard, 2005k:30098**
Mendes, J. F. M. *see* **Cougo-Pinto, M. V. et al., 2005g:81351**
Mironova, E. M. (*with* Loseva, N. N.) A new solution of the equations of motion of a rigid body in a magnetic field. (Russian) (*see* **2005m:00006**)
Mitrea, Dorina (*with* Mitrea, Marius) Poisson problems with half-Dirichlet boundary conditions for Dirac operators on nonsmooth manifolds. (English and Georgian summaries) **2005f:58035**
Mitrea, Marius *see* **Mitrea, Dorina, 2005f:58035**
Monsiváis, G. The relativistic Ampère-Maxwell law in integral form. (English summary) **2005e:78002**
Moses, Harry E. The role of the irreducible representations of the Poincaré group in solving Maxwell's equations. (English summary) **2005b:81051**
Muñoz Rivera, Jaime Edilberto (*with* Naso, Maria Grazia; Vuk, Elena) Asymptotic behaviour of the energy for electromagnetic systems with memory. (English summary) **2005a:35268**
Naso, Maria Grazia *see* **Muñoz Rivera, Jaime Edilberto et al., 2005a:35268**
Neshchadim, M. V. Inverse problems and some identities for a kinetic equation in electrodynamics. (Russian)
Nicaise, Serge *see* **Costabel, Martin et al., 2005a:35265**
Nilsson, Martin[2] *see* **Lötstedt, Per, 2005g:65062**
Opriş, Dumitru (*with* Udrişte, Constantin) Pole shifts explained by Dirac delay in a Ştefănescu magnetic flow. (English summary) **2005f:37190**
Ortner, Norbert (*with* Wagner, Peter[2]) Fundamental matrices of homogeneous hyperbolic systems. Applications to crystal optics, elastodynamics, and piezoelectromagnetism. (English summary) **2005c:35181**
Özer, Saadet (*with* Şuhubi, Erdoğan S.) Equivalence transformations for first order balance equations. (English summary) **2005b:35024**
Peterson, Janet S. *see* **Gunzburger, Max D. et al., 2005h:35269**
Puska, Perttu P. *see* **Bayro-Corrochano, Eduardo et al., 2005g:81145**
Rao, Giuseppe An application of Hankel cylindrical functions to backscattering problems. (Italian. Italian summary) **2005a:33003**
Reynaud, Serge *see* **Jaekel, Marc-Thierry, 2005i:81014**
Robinson, Allen C. *see* **Bochev, Pavel B. et al., 2005h:65241**
Sanchez, David Thin layers for the Landau-Lifschitz equation. (English summary) **2005i:35258**
Skrypnik, S. V. A class of two linear invariant relations in the problem of the motion of a body in a magnetic field. (Russian. Russian summary) (*see* **2005m:00006**)
Somersalo, Erkki *see* **Kurylev, Yaroslav V. et al., 2005e:35252**
Şuhubi, Erdoğan S. *see* **Özer, Saadet, 2005b:35024**
Tuminaro, Raymond S. *see* **Bochev, Pavel B. et al., 2005h:65241**
Udrişte, Constantin *see* **Opriş, Dumitru, 2005f:37190**
Valli, Alberto *see* **Alonso Rodríguez, Ana et al., 2005d:65162**
Vuk, Elena *see* **Muñoz Rivera, Jaime Edilberto et al., 2005a:35268**
Wagner, Peter[2] *see* **Ortner, Norbert, 2005c:35181**
Warburton, Timothy *see* **Hesthaven, Jan S.**
Weck, Norbert Approximation by Maxwell-Herglotz-fields. (English summary) **2005b:35271**
Wellander, Niklas (*with* Kristensson, Gerhard) Homogenization of the Maxwell equations at fixed frequency. (English summary) **2005g:35018**
Yudin, M. N. (*with* Yudin, V. M.) On the decomposition of direct geo-electric problems, based on the Schwarz method. (Russian. Russian summary) **2005b:86041**
Yudin, V. M. *see* **Yudin, M. N., 2005b:86041**
Zhao, Jun[4] Analysis of finite element approximation for time-dependent Maxwell problems. (English summary) **2005b:65112**
Zou, Jun *see* **Hu, Qi Ya, 2005a:65131** *and* **Ciarlet, Patrick, Jr. et al., 2005h:35332**

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Atluri, Satya N. *see* **Han, Z. D.**
Balac, S. (*with* Benoit-Cattin, H.; Lamotte, T.; Odet, C.) Analytic solution to boundary integral computation of susceptibility induced magnetic field inhomogeneities. (English summary) **2005a:78006**

Belardi, Aldo Artur (*with* Cardoso, José Roberto; França Sartori, Carlos Antonio) Application of Haar's wavelets in the method of moments to solve electrostatic problems. (English summary) **2005c:78009**

— (*with* Cardoso, José Roberto; França Sartori, Carlos Antonio) Wavelet's application in electrostatic and their computing aspects. (English summary)

Benoit-Cattin, H. *see* **Balac, S. et al., 2005a:78006**

Brigadnov, Igor A. Duality method for limit analysis of dielectrics in powerful electric fields. (English summary)

Cameron, David C. *see* **Moiseev, Tamara**

Cardoso, José Roberto *see* **Belardi, Aldo Artur et al., 2005c:78009**

Dular, Patrick *see* **Gyselinck, Johan et al.**

França Sartori, Carlos Antonio *see* **Belardi, Aldo Artur et al., 2005c:78009**

Geuzaine, Christophe A. *see* **Gyselinck, Johan et al.**

Gur′eva, Ya. L. (*with* Il′in, Valeriĭ Pavlovich; Solov′ev, S. A.) On numerical solution of the 3D magnetostatic problem. (*see* **2005i:65006**)

Gyselinck, Johan (*with* Geuzaine, Christophe A.; Dular, Patrick; Legros, W.) Multi-harmonic modelling of motional magnetic field problems using a hybrid finite element-boundary element discretisation. (English summary)

Han, Z. D. (*with* Atluri, Satya N.) Meshless local Petrov-Galerkin (MLPG) approaches for solving 3D problems in elasto-statics. (English summary)

Hense, K. (*with* Tajmar, M.; Marhold, K.) Electrostatic torque—a misinterpretation. Comment on: "Coulomb torque—a general theory for electrostatic forces in many-body systems" [J. Phys. A **36** (2003), no. 23, 6495–6508; MR1987445 (2004e:78008)] by A. V. M. Khachatourian and A. O. Wistrom. (English summary) **2005g:78007**

Il′in, Valeriĭ Pavlovich *see* **Gur′eva, Ya. L. et al., (2005i:65006)**

(Khachatourian, Armik V. M.) *see* **Hense, K. et al., 2005g:78007**

Kružík, Martin *see* **Roubíček, Tomáš, 2005j:78016**

Lamotte, T. *see* **Balac, S. et al., 2005a:78006**

Legros, W. *see* **Gyselinck, Johan et al.**

Lindell, Ismo V. (*with* Wallén, K. H.; Sihvola, A. H.) Electrostatic image theory for two intersecting conducting spheres. (English summary) **2005a:78007**

Lukáš, Dalibor On solution to an optimal shape design problem in 3-dimensional linear magnetostatics. (English summary) **2005c:78010**

Marhold, K. *see* **Hense, K. et al., 2005g:78007**

Moiseev, Tamara (*with* Cameron, David C.) A three-step algorithm for solving 2D inverse magnetostatic problems for magnetron design applications. (English summary)

Odet, C. *see* **Balac, S. et al., 2005a:78006**

Repetto, M. (*with* Trevisan, F.) Global formulation of 3D magnetostatics using flux and gauged potentials. (English summary) **2005c:78011**

Roubíček, Tomáš (*with* Kružík, Martin) Mesoscopic model for ferromagnets with isotropic hardening. (English summary) **2005j:78016**

Sihvola, A. H. *see* **Lindell, Ismo V. et al., 2005a:78007**

Solov′ev, S. A. *see* **Gur′eva, Ya. L. et al., (2005i:65006)**

Tajmar, M. *see* **Hense, K. et al., 2005g:78007**

Trevisan, F. *see* **Repetto, M., 2005c:78011**

Wallén, K. H. *see* **Lindell, Ismo V. et al., 2005a:78007**

(Wistrom, Anders O.) *see* **Hense, K. et al., 2005g:78007**

Items with secondary classifications in 78A30

Boland, Mercedes *see* **Scott, Larkin Ridgway et al.**

Brigadnov, Igor A. Limit analysis method in electrostatics. (English summary) **2005m:65261**

Buchau, André (*with* Hafla, Wolfgang; Groh, F.; Rucker, Wolfgang M.) Fast multipole boundary element method for the solution of 3D electrostatic field problems. (English summary) (*see* **2005d:65006**)

Chaabane, S. (*with* Ferchichi, J.; Kunisch, Karl) Differentiability of the L^1-tracking functional linked to the Robin inverse problem. (English and French summaries) **2005e:35241**

Duan, Huo-Yuan (*with* Liang, Guo Ping) Normal and tangential continuous elements for least-squares mixed finite element methods. (English summary) **2005d:65208**

Ferchichi, J. *see* **Chaabane, S. et al., 2005e:35241**

Fernández, Ariel *see* **Scott, Larkin Ridgway et al.**

Ferraro, Rafael 2D Born-Infeld electrostatic fields. (English summary) **2005c:81126**

Flemisch, Bernd (*with* Maday, Yvon; Rapetti, Francesca; Wohlmuth, Barbara I.) Coupling scalar and vector potentials on nonmatching grids for eddy currents in a moving conductor. (English summary)

Groh, F. *see* **Buchau, André et al., (2005d:65006)**

Gross, Paul W. (*with* Kotiuga, P. Robert) ★ Electromagnetic theory and computation: a topological approach. **2005d:78001**

Hafla, Wolfgang *see* **Buchau, André et al., (2005d:65006)**

Hazard, Christophe (*with* Lohrengel, Stephanie) A singular field method for Maxwell's equations: numerical aspects for 2D magnetostatics. (English summary) **2005a:78031**

Kobayashi, Takayuki[2] (*with* Suzuki, Takashi[1]; Watanabe, Kazuo[1]) Interface regularity for Maxell and Stokes systems. [Interface regularity for Maxwell and Stokes systems] **2005d:35026**

Kotiuga, P. Robert *see* **Gross, Paul W., 2005d:78001**

Kühnau, Reiner The application of conformal maps in electrostatics. **2005k:31018**

Kunisch, Karl *see* **Chaabane, S. et al., 2005e:35241**

Liang, Guo Ping *see* **Duan, Huo-Yuan, 2005d:65208**

Lohrengel, Stephanie *see* **Hazard, Christophe, 2005a:78031**

Maday, Yvon *see* **Flemisch, Bernd et al.**

Marín-Enriquez, Ivan *see* **Perez-Enriquez, Raul et al.**

Marín Flores, José Luis *see* **Perez-Enriquez, Raul et al.**

Mefire, Séraphin M. Exponential mesh approximations for a 3D exterior problem in magnetic induction. (English summary) **2005i:65190**

Melcher, Christof Logarithmic lower bounds for Néel walls. (English summary) **2005m:49075**

Ozizmir, Ercument *see* **Wollman, Stephen, (2005m:00008)**

Perez-Enriquez, Raul (*with* Marin-Enriquez, Ivan; Marín Flores, José Luis; Riera, R.) Chebyshev functions and their use for two-dimensional electrostatic problems in elliptic coordinates. (English summary)

Ragoub, Lakhdar Principe du maximum et fonctions auxiliaires pour des problèmes elliptiques. (French summary) [Maximum principle and auxiliary functions for elliptic problems] **2005f:35120**

Rapetti, Francesca *see* **Flemisch, Bernd et al.**

Riera, R. *see* **Perez-Enriquez, Raul et al.**

Rocchia, W. Poisson-Boltzmann equation boundary conditions for biological applications. (English summary) **2005m:35044**

Rogale, Kristina *see* **Scott, Larkin Ridgway et al.**

Rousseaux, Germain On the physical meaning of the gauge conditions of classical electromagnetism: the hydrodynamics analogue viewpoint. (English summary) **2005b:78005**

Rucker, Wolfgang M. *see* **Buchau, André et al., (2005d:65006)**

Scott, Larkin Ridgway (*with* Boland, Mercedes; Rogale, Kristina; Fernández, Ariel) Continuum equations for dielectric response to macro-molecular assemblies at the nano scale. (English summary)

Suzuki, Takashi[1] *see* **Kobayashi, Takayuki[2] et al., 2005d:35026**

Watanabe, Kazuo[1] *see* **Kobayashi, Takayuki[2] et al., 2005d:35026**

Wohlmuth, Barbara I. *see* **Flemisch, Bernd et al.**

Wollman, Stephen (*with* Ozizmir, Ercument) A numerical method for the Vlasov-Poisson-Fokker-Planck system in one dimension. (*see* **2005m:00008**)

Zorgati, Hamdi Films courbés minces ferromagnétiques. (English and French summaries) [Ferromagnetic thin curved films] **2005h:49034**

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Altschuler, Eric Lewin (*with* Pérez-Garrido, Antonio) Global minimum for Thomson's problem of charges on a sphere. (English summary) **2005m:78003**

Angelov, Vasil G. (*with* Georgiev, Lubomir P.) A comparison of two systems describing electromagnetic two-body problem. (English summary) **2005k:78006**

— (*with* Soriano Arbizu, J. M.) Uniqueness of escape trajectories for N-body problem of classical electrodynamics.

Blazhievskiĭ, L. F. (*with* Budnyj, B. V.; Krynytskyj, Yu. S.) Lagrangian and Hamiltonian functions for relativistic system of charged particles. (English and Ukrainian summaries) **2005c:78012**

Budnyj, B. V. *see* **Blazhievskiĭ, L. F. et al., 2005c:78012**

Costa De Beauregard, O. To believe or not believe in the 4-potential, that's a question. The electric Helmholtz-Mikhailov effect and its magnetic analog. (English summary) **2005m:78004**

De Luca, Jayme *see* **Hollander, Efrain Buksman, 2005h:78008**

Dushek, Omer (*with* Kuzmin, Sergiy V.) The fields of a moving point charge: a new derivation from Jefimenko's equations. (English summary) **2005m:78005**

Eliel, E. R. *see* **Oemrawsingh, S. S. R. et al., 2005j:78017**

Eriksen, E. (*with* Grøn, Øyvind) Electrodynamics of hyperbolically accelerated charges. V. The field of charge in the Rindler space and the Milne space. (English summary) **2005g:78008**

Georgiev, Lubomir P. *see* **Angelov, Vasil G., 2005k:78006**

González-Gascón, Francisco (*with* Peralta-Salas, D.) Motion of a charge in the magnetic field created by wires: impossibility of reaching the wires. (English summary) **2005g:78009**

Grøn, Øyvind *see* **Eriksen, E., 2005g:78008**

Hnizdo, Vladimir Potentials of a uniformly moving point charge in the Coulomb gauge. (English summary) **2005m:78006**

Hollander, Efrain Buksman (*with* De Luca, Jayme) Regularization of the collision in the electromagnetic two-body problem. (English summary) **2005h:78008**

Il′in, Valeriĭ Pavlovich (*with* Tsarenko, A. V.) On numerical solution of tunneling problem. (English summary) (*see* **2005i:65006**)

Kichenassamy, S. The relativistic motion of charged particles in an electromagnetic field. (English and French summaries) **2005c:78013**

— Errata: "The relativistic motion of charged particles in an electromagnetic field" [Ann Fond. Louis de Broglie **28** (2003), no. 3-4, 391–402; MR2065366 (2005c:78013)] (French)

Krasyuk, I. I. (*with* Pogorelov, E. N.) Cartesian ovals as phase trajectories of relativistic charged particles. (Russian. Russian summary) **2005a:78008**

Krynytskyj, Yu. S. *see* **Blazhievskiĭ, L. F. et al., 2005c:78012**

Kuzmin, Sergiy V. *see* **Dushek, Omer, 2005m:78005**

Louis-Martinez, Domingo J. Exact solutions of the relativistic many body problem (English summary) **2005a:78009**

Nienhuis, G. *see* **Oemrawsingh, S. S. R. et al., 2005j:78017**

Oemrawsingh, S. S. R. (*with* Eliel, E. R.; Nienhuis, G.; Woerdman, J. P.) Intrinsic orbital angular momentum of paraxial beams with off-axis imprinted vortices. (English summary) **2005j:78017**

Ori, Amos (*with* Rosenthal, Eran) Calculation of the self force using the extended-object approach. (English summary) **2005e:78010**

Peralta-Salas, D. *see* **González-Gascón, Francisco, 2005g:78009**

Pérez-Garrido, Antonio *see* **Altschuler, Eric Lewin, 2005m:78003**

Pogorelov, E. N. *see* **Krasyuk, I. I., 2005a:78008**

Rosenthal, Eran *see* **Ori, Amos, 2005e:78010**

Shebalin, John V. Størmer regions for axisymmetric magnetic multipole fields. (English summary) **2005h:78009**

Soriano Arbizu, J. M. *see* **Angelov, Vasil G.**

Torres del Castillo, G. F. Gauge-invariant formulation of the electromagnetic interaction in Hamiltonian mechanics. (English and Spanish summaries) **2005a:78010**

Tsarenko, A. V. *see* **Il′in, Valeriĭ Pavlovich, (2005i:65006)**

Turchetti, Giorgio Mathematical models in beam dynamics. (*see* **2005a:00015**)

Tzenov, Stephan I. ★ Contemporary accelerator physics. **2005k:78007**

Woerdman, J. P. *see* **Oemrawsingh, S. S. R. et al., 2005j:78017**

Yaremko, Yu. G. Radiation reaction, renormalization and conservation laws in six-dimensional classical electrodynamics. (English summary) **2005d:78007**

— Interference of outgoing electromagnetic waves generated by two point-like sources. (English summary) **2005k:78008**

Items with secondary classifications in 78A35

Anile, Angelo Marcello (*with* Nikiforakis, N.; Romano, V.; Russo, Giovanni) Discretization of semiconductor device problems. II. (English summary)
Bałan, Vladimir Lorentz-type equations in first-order jet spaces endowed with nonlinear connection. (English summary) **2005e:53027**
Baro, M. (*with* Ben Abdallah, Naoufel; Degond, Pierre; El Ayyadi, A.) A 1D coupled Schrödinger drift-diffusion model including collisions. (English summary) **2005h:82113**
Ben Abdallah, Naoufel *see* **Baro, M. et al., 2005h:82113**
Bennewitz, Christer (*with* Evans, William Desmond) Inequalities associated with magnetic fields. (English summary) **2005f:26048**
Brezzi, F. (*with* Marini, L. D.; Micheletti, Stefano; Pietra, Paola; Sacco, Riccardo; Wang, Song[1]) Discretization of semiconductor device problems. I.
Caponio, Erasmo (*with* Masiello, Antonio; Piccione, Paolo) Maslov index and Morse theory for the relativistic Lorentz force equation. (English summary) **2005m:58027**
Celli, Martin Mouvements rigides associés à des masses positives et négatives. (English and French summaries) [Rigid motions associated with positive and negative masses] **2005m:70055**
Chang, Choong-Seock *see* **Weitzner, Harold, 2005h:76102**
Chen, Taiyong *see* **Zhang, Meiyue et al., 2005m:34104**
Chikrii, Arkadii A. *see* **Parsa, Z. et al., 2005k:35395**
Cohen, Samuel A. *see* **Landsman, A. S. et al., 2005j:37145**
Davidson, Ronald C. *see* **Tzenov, Stephan I., 2005d:37177**
Degond, Pierre *see* **Baro, M. et al., 2005h:82113**
De Martino, Salvatore (*with* De Siena, Silvio; Fedele, Renato; Tzenov, Stephan I.) Mesoscopic description of dynamical systems: hierarchy of recursive equations for the moments of the density distribution with an application to charged particle beam dynamics. (English summary) **2005f:70022**
De Siena, Silvio *see* **De Martino, Salvatore et al., 2005f:70022**
Dodin, I. Y. (*with* Fisch, N. J.; Rax, J. M.) Ponderomotive barrier as a Maxwell demon. (English summary) **2005h:76095**
Dumas, H. Scott (*with* Ellison, James A.; Vogt, Mathias) First-order averaging principles for maps with applications to accelerator beam dynamics. (English summary) **2005j:37103**
Edelman, M. A. *see* **Landsman, A. S. et al., 2005j:37145**
Efimov, D. I. The magnetic geodesic flow in a homogeneous field on a complex projective space. (Russian. Russian summary) **2005d:37120**
Èĭdel′man, Samuil Davidovich *see* **Parsa, Z. et al., 2005k:35395**
El Ayyadi, A. *see* **Baro, M. et al., 2005h:82113**
Elgart, Alexander (*with* Schlein, Benjamin) Adiabatic charge transport and the Kubo formula for Landau-type Hamiltonians. (English summary) **2005e:82106**
Ellison, James A. *see* **Dumas, H. Scott et al., 2005j:37103**
Evans, William Desmond *see* **Bennewitz, Christer, 2005f:26048**
Fedele, Renato *see* **De Martino, Salvatore et al., 2005f:70022**
Fisch, N. J. *see* **Dodin, I. Y. et al., 2005h:76095**
Gràcia, Xavier (*with* Martín, Rubén) Nonholonomic systems and the relativistic particle. (English summary) **2005j:70030**
Horwitz, L. P. (*with* Katz, Nir A.; Oron, O.) Could the classical relativistic electron be a strange attractor? (English summary) (*see* **2005d:00011**)
Iñarrea, Manuel (*with* Lanchares, Víctor; Palacián, Jesús F.; Pascual, Ana I.; Salas, J. Pablo; Yanguas, Patricia) On the dynamics of charged particles around rotating magnetic planets: perturbed Keplerian motions. (English summary) **2005g:70010**
— (*with* Lanchares, Víctor; Palacián, Jesús F.; Pascual, Ana I.; Salas, J. Pablo; Yanguas, Patricia) The Keplerian regime of charged particles in planetary magnetospheres. (English summary) **2005h:85002**
Jia, Yong *see* **Zhang, Meiyue et al., 2005m:34104**
Kapitonov, Boris V. (*with* Raupp, Marco Antonio) Boundary stabilization in a problem of transmission for an inhomogeneous plasma. (English summary) **2005c:35026**
Karasev, M. V. (*with* Pereskokov, A. V.) Asymptotic solutions for Hartree equations and logarithmic obstructions for higher corrections of semiclassical approximation. (English summary) **2005d:81149**
Katz, Nir A. *see* **Horwitz, L. P. et al., (2005d:00011)**
Kerner, Richard Born-Infeld electrodynamics and its modern versions. **2005m:83054**
Khushalani, B. Equilibrium configurations based on Platonic geometries. (English summary) **2005f:70017**
Kiessling, Michael K.-H. Electromagnetic field theory without divergence problems. I. The Born legacy. (English summary) **2005h:81003a**
— Electromagnetic field theory without divergence problems. II. A least invasively quantized theory. (English summary) **2005h:81003b**
Kijowski, Jerzy (*with* Kościelecki, Marcin) On stability of renormalised classical electrodynamics. (English summary) **2005k:78002**
Kościelecki, Marcin *see* **Kijowski, Jerzy, 2005k:78002**
Lanchares, Víctor *see* **Iñarrea, Manuel et al., 2005g:70010** *and* **2005h:85002**
Landsman, A. S. (*with* Cohen, Samuel A.; Edelman, M. A.; Zaslavsky, G. M.) Resonance and chaotic trajectories in magnetic field reversed configuration. (English summary) **2005j:37145**
Leach, P. G. L. (*with* Nucci, M. C.) Reduction of the classical MICZ-Kepler problem to a two-dimensional linear isotropic harmonic oscillator. (English summary) **2005f:70014**
Liu, Wen Bin[1] *see* **Zhang, Meiyue et al., 2005m:34104**
Loutsenko, Igor Equilibrium of charges and differential equations solved by polynomials. (English summary) **2005f:34004**
Marini, L. D. *see* **Brezzi, F. et al.**
Martín, Rubén *see* **Gràcia, Xavier, 2005j:70030**
Masiello, Antonio *see* **Caponio, Erasmo et al., 2005m:58027**
Micheletti, Stefano *see* **Brezzi, F. et al.**
Minguzzi, Ettore On the existence of maximizing curves for the charged-particle action. (English summary) **2005c:58025**
Newman, Ezra Ted Maxwell fields and shear-free null geodesic congruences. (English summary) **2005e:83034**
Nikiforakis, N. *see* **Anile, Angelo Marcello et al.**
Nucci, M. C. *see* **Leach, P. G. L., 2005f:70014**
Oron, O. *see* **Horwitz, L. P. et al., (2005d:00011)**
Ostudĭn, B. A. (*with* Romanenko, Anatoliy Vitaliyovich) Mathematical modeling of the motion of a high-current beam of charged particles in a self-consistent 3D-field. (Ukrainian. English, Russian and Ukrainian summaries) **2005h:78018**
Palacián, Jesús F. *see* **Iñarrea, Manuel et al., 2005g:70010** *and* **2005h:85002**
Parsa, Z. (*with* Chikrii, Arkadii A.; Èĭdel′man, Samuil Davidovich; Yavorskij, V.; Zadorozhnyĭ, V. F.) Fokker-Planck model of charged-particle beam behavior in a strong toroidal magnetic field. (English summary) **2005k:35395**
Pascual, Ana I. *see* **Iñarrea, Manuel et al., 2005g:70010** *and* **2005h:85002**
Pereskokov, A. V. *see* **Karasev, M. V., 2005d:81149**
Piccione, Paolo *see* **Caponio, Erasmo et al., 2005m:58027**
Pietra, Paola *see* **Brezzi, F. et al.**
Pusterla, M. Path integral approach in quantum-like theory. Two applications: LHC and HIDIF. (English summary) **2005e:81121**
Raupp, Marco Antonio *see* **Kapitonov, Boris V., 2005c:35026**
Rax, J. M. *see* **Dodin, I. Y. et al., 2005h:76095**
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Romano, V. *see* **Anile, Angelo Marcello et al.**
Russo, Giovanni *see* **Anile, Angelo Marcello et al.**
Sacco, Riccardo *see* **Brezzi, F. et al.**
Salas, J. Pablo *see* **Iñarrea, Manuel et al., 2005g:70010** *and* **2005h:85002**
Sano, Mitsusada M. The classical Coulomb three-body problem in the collinear *eZe* configuration. (English summary) **2005e:70017**
Schlein, Benjamin *see* **Elgart, Alexander, 2005e:82106**
Spohn, Herbert ★ Dynamics of charged particles and their radiation field. **2005g:81355**
Sveshnikov, V. M. Numerical analysis of intensive charged particle beams on quasistructured grids. (*see* **2005i:65006**)
Swanson, Mark S. Charge-monopole trajectories and the WKB approximation. (English summary) **2005k:81083**
Teodorescu, Petre P. (*with* Toma, Ileana) On Voinea's analogy. (English summary) **2005a:70023**
Timoumi, Mohsen Multiple closed trajectories of a relativistic particle. (English summary) **2005f:37133**
Toma, Ileana *see* **Teodorescu, Petre P., 2005a:70023**
Tzenov, Stephan I. (*with* Davidson, Ronald C.) Renormalization group reduction of the Hénon map and application to the transverse betatron motion in cyclic accelerators. (English summary) **2005d:37177**
— *see also* **De Martino, Salvatore et al., 2005f:70022**
Vogt, Mathias *see* **Dumas, H. Scott et al., 2005j:37103**
Wang, Song[1] *see* **Brezzi, F. et al.**
Weitzner, Harold (*with* Chang, Choong-Seock) Extensions of adiabatic invariant theory for a charged particle. (English summary) **2005h:76102**
Yanguas, Patricia *see* **Iñarrea, Manuel et al., 2005g:70010** *and* **2005h:85002**
Yaremko, Yu. G. Interference in the radiation of two point-like sources. (English summary) **2005h:78011**
Yavorskij, V. *see* **Parsa, Z. et al., 2005k:35395**
Yserentant, Harry On the regularity of the electronic Schrödinger equation in Hilbert spaces of mixed derivatives. (English summary) **2005j:35032**
Zadorozhnyĭ, V. F. *see* **Parsa, Z. et al., 2005k:35395**
Zaslavsky, G. M. *see* **Landsman, A. S. et al., 2005j:37145**
Zhang, Meiyue (*with* Chen, Taiyong; Liu, Wen Bin[1]; Jia, Yong) Existence of positive periodic solution for the electron beam focusing system. (English summary) **2005m:34104**

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Abo Seliem, Adel A. S. (*with* Maiz, F.) Evaluation of the electric field strength above a two layer medium. (English summary)
Abrahams, I. David (*with* Kriegsmann, Gregory A.) Electromagnetic wave propagation through small diameter tube bundles. (*see* **2005b:00020**)
Afanas′ev, G. N. (*with* Shilov, V. M.; Stepanovskiĭ, Yu. P.) Shock waves in the Tamm problem and the possibility of their experimental observation. (English summary) **2005j:78018**
Alamo, N. (*with* Criado, C.) A method to construct refracting profiles. (English summary) **2005a:78011**
Alkumru, Ali *see* **Idemen, Mithat, 2005m:78007**
Ammari, Habib (*with* Santosa, Fadil) Guided waves in a photonic bandgap structure with a line defect. (English summary) **2005j:78019**
Antar, Yahia M. M. *see* **Mahmoud, Samir F. et al.**
Ayari, Mohamed Yassine (*with* Coatanhay, Arnaud; Khenchaf, Ali) Electromagnetic propagation in troposphere: inverse problem using optimization approaches. (English summary) (*see* **2005b:00020**)
Bandres, Miguel A. *see* **Gutiérrez-Vega, Julio C.**
Bhatti, Z. R. *see* **Durrani, Ijaz-ur-Rahman, 2005c:78014**
Boardman, Allan D. *see* **Shadrivov, Ilya V. et al., 2005e:78012**
Borisov, V. V. (*with* Reutova, Nadezhda M.; Utkin, Andrei B.) Electromagnetic waves produced by a travelling current pulse with high-frequency filling. (English summary) **2005j:78020**
Cappellini, G. *see* **Tonelli, R. et al., 2005e:78013**
Caputo, Jean-Guy *see* **Maimistov, Andrei I., 2005b:78007**
Chavel, Pierre *see* **Réfrégier, Philippe et al., 2005j:78024**
Chung, Young-Seek (*with* Sarkar, Tapan K.; Jung, Baek Ho; Salazar-Palma, Magdalena; Ji, Zhong; Jang, Seongman; Kim, Kyungjung) Solution of time domain electric field integral equation using the Laguerre polynomials. (English summary)
Ciattaglia, Matteo *see* **Marrocco, Gaetano**
Coatanhay, Arnaud *see* **Ayari, Mohamed Yassine et al., (2005b:00020)**
Criado, C. *see* **Alamo, N., 2005a:78011**

Dai, Dahai *see* **Wang, Xuesong et al.**
Devaney, Anthony J. Nonradiating surface sources. (English summary) **2005j:78021**
Durrani, Ijaz-ur-Rahman (*with* Bhatti, Z. R.) On the five wave interaction. (English summary) **2005c:78014**
Dvorak, Steven L. *see* **Pao, Hsueh-Yuan et al.**
Egan, Peter *see* **Shadrivov, Ilya V. et al., 2005e:78012**
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Freundorfer, Al P. *see* **Mahmoud, Samir F. et al.**
Friberg, Ari T. *see* **Réfrégier, Philippe et al., 2005j:78024**
Golowich, S. E. (*with* Weinstein, Michael I.) Theory and computation of scattering resonances of photonic microstructures. (English summary) **2005g:78010**
Goudail, François *see* **Réfrégier, Philippe et al., 2005j:78024**
Grishina, N. V. (*with* Erëmin, Yu. A.; Sveshnikov, Alekseĭ Georgievich) The problem of transforming evanescent waves near a layer of substrate. (Russian. Russian summary) **2005c:78015**
Gutiérrez-Vega, Julio C. (*with* Bandres, Miguel A.) Helmholtz-Gauss waves. (English summary)
— (*with* Bandres, Miguel A.) Ince-Gaussian beams in a quadratic-index medium. (English summary)
Haba, Zbigniew Green functions and propagation of waves in strongly inhomogeneous media. (English summary) **2005e:78011**
Hammad, Hany F. *see* **Mahmoud, Samir F. et al.**
Idemen, Mithat (*with* Alkumru, Ali) Diffraction of two-dimensional high-frequency electromagnetic waves by a locally perturbed two-part impedance plane. (English summary) **2005m:78007**
Jang, Seongman *see* **Chung, Young-Seek et al.**
Ji, Zhong *see* **Chung, Young-Seek et al.**
Jung, Baek Ho *see* **Chung, Young-Seek et al.**
Khenchaf, Ali *see* **Ayari, Mohamed Yassine et al., (2005b:00020)**
Kim, Arnold D. *see* **Oestges, Claude et al.**
Kim, Kyungjung *see* **Chung, Young-Seek et al.**
Kivshar, Yuri S. *see* **Shadrivov, Ilya V. et al., 2005e:78012**
Kogan, L. P. (*with* Tamoikin, V. V.; Zaboronkova, T. M.) Modification of boundary condition for the problem of source radiation in a half-space with a curvilinear impedance surface. (*see* **2005b:00020**)
Kriegsmann, Gregory A. *see* **Abrahams, I. David, (2005b:00020)**
Lajunen, Hanna (*with* Tervo, Jani; Vahimaa, Pasi) Overall coherence and coherent-mode expansion of spectrally partially coherent plane-wave pulses. (English summary) **2005j:78022**
Lee, Chee-Keong *see* **Li, Le-Wei et al.**
Leong, Mook-Seng *see* **Li, Le-Wei et al.**
Li, Le-Wei (*with* Lee, Chee-Keong; Yeo, Tat Soon; Leong, Mook-Seng) Wave mode and path characteristics in a four-layered anisotropic forest environment. (English summary)
Li, Yongzhen *see* **Wang, Xuesong et al.**
Mahmoud, Samir F. (*with* Antar, Yahia M. M.; Hammad, Hany F.; Freundorfer, Al P.) Theoretical considerations in the optimization of surface waves on a planar structure. (English summary)
Maimistov, Andrei I. (*with* Caputo, Jean-Guy) Propagation of extremely short pulses in nonresonant media: the total Maxwell-Duffing model. (English summary) **2005b:78007**
Maiz, F. *see* **Abo Seliem, Adel A. S.**
Marrocco, Gaetano (*with* Ciattaglia, Matteo) Ultrawide-band modeling of transient radiation from aperture antennas. (English summary)
Meloni, F. *see* **Tonelli, R. et al., 2005e:78013**
Monsoriu, Juan A. *see* **Zapata-Rodríguez, Carlos J.**
Moroz, Alexander A recursive transfer-matrix solution for a dipole radiating inside and outside a stratified sphere. (English summary) **2005j:78023**
Morro, Angelo One-way propagation in electromagnetic materials. (English summary) **2005b:78008**
Nakayama, J. *see* **Tamura, Yasuhiko, 2005b:78009**
Nerukh, Alexander G. Fresnel's formulas in time domain. (English summary) **2005h:78010**
Nicmoruş, Diana *see* **Vrejoiu, C., 2005g:78012**
Oestges, Claude (*with* Kim, Arnold D.; Papanicolaou, George; Paulraj, Arogyaswami J.) Characterization of space-time focusing in time-reversed random fields. (English summary)
Pao, Hsueh-Yuan (*with* Zhu, Zhaohui[2]; Dvorak, Steven L.) Exact, closed-form representations for the time-domain surface impedances of a homogeneous, lossy half-space. (English summary)
Papanicolaou, George *see* **Oestges, Claude et al.**
Paulraj, Arogyaswami J. *see* **Oestges, Claude et al.**
Peresvetov, V. V. (*with* Smagin, S. I.) Three-dimensional electromagnetic fields in two-dimensional nonhomogeneous media. (Russian. English and Russian summaries) **2005g:78011**
Réfrégier, Philippe (*with* Goudail, François; Chavel, Pierre; Friberg, Ari T.) Entropy of partially polarized light and application to statistical processing techniques. (English summary) **2005j:78024**
Reutova, Nadezhda M. *see* **Borisov, V. V. et al., 2005j:78020**
Ruan, J. W. *see* **Young, Der-Liang, 2005k:78009**
Salazar-Palma, Magdalena *see* **Chung, Young-Seek et al.**
Santosa, Fadil *see* **Ammari, Habib, 2005j:78019**
Sarkar, Tapan K. *see* **Chung, Young-Seek et al.**
Saveliev, V. Solution of wave equations for a moving charge in the media with discontinued dielectric properties. (English summary) (*see* **2005b:76005**)
Seshadri, S. R. Beam dynamics of two modes propagating along the optic axis in a uniaxial crystal. (English summary)
Shadrivov, Ilya V. (*with* Sukhorukov, Andrey A.; Kivshar, Yuri S.; Zharov, Alexander A.; Boardman, Allan D.; Egan, Peter) Nonlinear surface waves in left-handed materials. (English summary) **2005e:78012**
Shilov, V. M. *see* **Afanas'ev, G. N. et al., 2005j:78018**
Smagin, S. I. *see* **Peresvetov, V. V., 2005g:78011**
Stepanovskiĭ, Yu. P. *see* **Afanas'ev, G. N. et al., 2005j:78018**
Sukhorukov, Andrey A. *see* **Shadrivov, Ilya V. et al., 2005e:78012**
Sveshnikov, Alekseĭ Georgievich *see* **Grishina, N. V. et al., 2005c:78015**
Tamoikin, V. V. *see* **Kogan, L. P. et al., (2005b:00020)**
Tamura, Yasuhiko (*with* Nakayama, J.) Wave reflection and transmission from a thin film with one-dimensional disorder. (English summary) **2005b:78009**
Tervo, Jani *see* **Lajunen, Hanna et al., 2005j:78022**
Tonelli, R. (*with* Cappellini, G.; Meloni, F.; Trillo, S.) Coupled-mode versus nonlinear Schrödinger equations for electromagnetic wave propagation in continuous media. (English summary) **2005e:78013**
Trillo, S. *see* **Tonelli, R. et al., 2005e:78013**
Utkin, Andrei B. *see* **Borisov, V. V. et al., 2005j:78020**
Vahimaa, Pasi *see* **Lajunen, Hanna et al., 2005j:78022**
Vrejoiu, C. (*with* Nicmoruş, Diana) On the multipole electromagnetic radiation. (English summary) **2005g:78012**
Wang, Xuesong (*with* Li, Yongzhen; Dai, Dahai; Xiao, Shunping; Zhuang, Zhaowen) Instantaneous polarization statistics of electromagnetic waves. (English summary)
Weinstein, Michael I. *see* **Golowich, S. E., 2005g:78010**
Xiao, Shunping *see* **Wang, Xuesong et al.**
Yaremko, Yu. G. Interference in the radiation of two point-like sources. (English summary) **2005h:78011**
Yeo, Tat Soon *see* **Li, Le-Wei et al.**
Young, Der-Liang (*with* Ruan, J. W.) Method of fundamental solutions for scattering problems of electromagnetic waves. (English summary) **2005k:78009**
Zaboronkova, T. M. *see* **Kogan, L. P. et al., (2005b:00020)**
Zapata-Rodríguez, Carlos J. (*with* Monsoriu, Juan A.) Spectral anomalies in focused waves of different Fresnel numbers. (English summary)
Zharov, Alexander A. *see* **Shadrivov, Ilya V. et al., 2005e:78012**
Zhu, Zhaohui[2] *see* **Pao, Hsueh-Yuan et al.**
Zhuang, Zhaowen *see* **Wang, Xuesong et al.**

Items with secondary classifications in 78A40

Ainsworth, Mark Dispersive properties of high-order Nédélec/edge element approximation of the time-harmonic Maxwell equations. (English summary)
Akyurtlu, Alkim (*with* Werner, Douglas H.) A novel dispersive FDTD formulation for modeling transient propagation in chiral metamaterials. (English summary)
— (*with* Werner, Douglas H.) Modeling of transverse propagation through a uniaxial bianisotropic medium using the finite-difference time-domain technique. (English summary)
Bettess, Peter Short-wave scattering: problems and techniques. (English summary) **2005b:78001**
Boyer, Timothy H. Blackbody radiation, conformal symmetry, and the mismatch between classical mechanics and electromagnetism. (English summary) **2005i:82002**
Cattaert, Tom (*with* Verheest, Frank) Large amplitude parallel propagating electromagnetic oscillitons. (English summary) **2005h:76094**
— *see also* **Verheest, Frank, 2005j:76097**
Colin, Thierry (*with* Lannes, David) Justification of and long-wave correction to Davey-Stewartson systems from quadratic hyperbolic systems. (English summary) **2005c:35265**
Danoyan, Z. N. Investigation of the roots of the characteristic equation of plane magnetoelastic waves for perfectly conducting anisotropic media. (Russian. English, Russian and Ukrainian summaries)
Eom, Hyo J. ★ Electromagnetic wave theory for boundary-value problems. **2005b:35270**
Galué, Leda Radiation field integrals involving Wright's generalized hypergeometric function. (English summary)
Geuzaine, Christophe A. *see* **Nicolet, André et al.**
Godin, Oleg A. (*with* Voronovich, A. G.) Fermat's principle for non-dispersive waves in non-stationary media. (English summary) **2005c:35275**
Guenneau, Sébastien *see* **Nicolet, André et al.**
Hansen, Jan (*with* Reitzner, Matthias) Electromagnetic wave propagation and inequalities for moments of chord lengths. (English summary) **2005j:60023**
Hughes, David H. Moment densities of propagating wave fields. (English summary) **2005e:94027**
Jiao, Pei-Nan *see* **Li, Le-Wei et al.**
Klačka, Jozef Electromagnetic radiation and motion of a particle. (English summary) **2005a:70014**
Kong, Jin A. *see* **Li, Le-Wei et al.**
Kristensson, Gerhard *see* **Wellander, Niklas, 2005g:35018**
Lannes, David *see* **Colin, Thierry, 2005c:35265**
Li, Le-Wei (*with* Jiao, Pei-Nan; Shi, Xiao-Wei; Kong, Jin A.) Closed-form solution to electromagnetic fields in far zone radiated by toroidal antennas. (English summary)
Li, Zhiping (*with* Wu, Xiao Nan) Multi-atomic Young measure and artificial boundary in approximation of micromagnetics. (English summary) **2005f:49096**
Lindell, Ismo V. (*with* Wallén, K. H.) Generalized Q-media and field decomposition in differential-form approach. (English summary) **2005e:78001**
Longhi, Stefano Parametric amplification of spatiotemporal localized envelope waves. (English summary) **2005f:35184**
Nicolet, André (*with* Guenneau, Sébastien; Geuzaine, Christophe A.; Zolla, Frédéric) Modelling of electromagnetic waves in periodic media with finite elements. (English summary)
Porter, Jeffrey *see* **Topaz, Chad M. et al., 2005k:34141**
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Sanchez, David Long waves in ferromagnetic media, Khokhlov-Zabolotskaya equation. (English summary) **2005k:35397**
Sarvas, Jukka Performing interpolation and anterpolation entirely by fast Fourier transform in the 3-D multilevel fast multipole algorithm. (English summary) **2005d:65249**
Scarpetta, Edoardo (*with* Sumbatyan, Mezhlum A.) Low-frequency propagation of plane scalar waves through a periodic array of arbitrary volumetric obstacles. (English and Ukrainian summaries)
Schneider, John Brand Plane waves in FDTD simulations and a nearly perfect total-field/scattered-field boundary. (English summary)

Schulz-Baldes, Hermann Perturbation theory for Lyapunov exponents of an Anderson model on a strip. (English summary) **2005g:47070**
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Singer, Ido (*with* Turkel, Eli) A perfectly matched layer for the Helmholtz equation in a semi-infinite strip. (English summary) **2005h:65189**
Sten, J. C.-E. Conversion between two bases of rotationally symmetric spheroidal vector wavefunctions. (English summary) **2005h:33046**
Stuart, Charles A. Modelling axi-symmetric travelling waves in a dielectric with nonlinear refractive index. (English summary) **2005h:35336**
Sumbatyan, Mezhlum A. *see* **Scarpetta, Edoardo**
Topaz, Chad M. (*with* Porter, Jeffrey; Silber, Mary) Multifrequency control of Faraday wave patterns. (English summary) **2005k:34141**
Tsalamengas, J. L. Diffraction of obliquely incident waves by a strip in a bianisotropic medium. (English summary)
Tsynkov, S. V. On the application of lacunae-based methods to Maxwell's equations. (English summary) **2005c:35277**
Turkel, Eli *see* **Singer, Ido, 2005h:65189**
Verheest, Frank (*with* Cattaert, Tom) Oblique propagation of large amplitude electromagnetic solitons in pair plasmas. (English summary) **2005j:76097**
— *see also* **Cattaert, Tom, 2005h:76094**
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Wallén, K. H. *see* **Lindell, Ismo V., 2005e:78001**
Wellander, Niklas (*with* Kristensson, Gerhard) Homogenization of the Maxwell equations at fixed frequency. (English summary) **2005g:35018**
Werner, Douglas H. *see* **Akyurtlu, Alkim**
Wu, Xiao Nan *see* **Li, Zhiping, 2005f:49096**
Yin, Hong-Ming Regularity of weak solution to Maxwell's equations and applications to microwave heating. (English summary) **2005d:35253**
Zolla, Frédéric *see* **Nicolet, André et al.**

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Ablowitz, Mark J. (*with* Musslimani, Ziad H.) Discrete scalar and vector diffraction-managed nonlinear Schrödinger equation. (English summary) **2005i:78008**
Adams, Robert J. Combined field integral equation formulations for electromagnetic scattering from convex geometries. (English summary)
— *see also* **Davis, Bradley A., 2005a:78014**
Adamson, Peep Numerical analysis of transverse localization of radiation in freely propagating electromagnetic Bessel beams. (English summary) (*see* **2005b:00020**)
Almazov, Anton A. *see* **Kotlyar, V. V. et al.**
Anagnostopoulos, K. A. (*with* Charalambopoulos, A.; Fotiadis, D. I.) Scattering of electromagnetic spherical waves by a buried spheroidal perfect conductor. (English summary) **2005a:78012**
Antipov, Yuri A. (*with* Sil′vestrov, V. V.) Second-order functional-difference equations. I. Method of the Riemann-Hilbert problem on Riemann surfaces. (English summary) **2005g:78013**
— (*with* Sil′vestrov, V. V.) Second-order functional-difference equations. II. Scattering from a right-angled conductive wedge for E-polarization. (English summary) **2005g:78014**
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— (*with* Laghrouche, Omar; Bettess, Peter; Trevelyan, Jon) Plane-wave basis finite elements and boundary elements for three-dimensional wave scattering. (English summary) **2005b:78017**

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Zientara, Marcin *see* **Jakubczyk, Daniel et al., 2005i:78009**
Zirilli, Francesco *see* **Fatone, Lorella et al., 2005c:78019** *and* **(2005b:00020)**
Zolla, Frédéric *see* **Bouchitté, Guy et al., 2005m:78009**
Zschiedrich, Lin *see* **Hohage, Thorsten et al., 2005f:78003**
Zvezdin, A. K. (*with* Belotelov, V. I.) Electrodynamic Green-function technique for investigating the magneto-optics of low-dimensional systems and nanostructures. (English summary)
Zykov, Sergey G. *see* **Kaplan, Alexander E.**

Items with secondary classifications in 78A45

Ahuja, Ravindra K. *see* **Romeijn, H. Edwin et al., 2005m:90175**
Ammari, Habib (*with* Khelifi, Abdessatar) Electromagnetic scattering by small dielectric inhomogeneities. (English and French summaries) **2005a:35262**
Arcaute, Elsa *see* **Lasenby, Anthony et al., 2005h:81178**
Athanasiadis, Christodoulos (*with* Kardasi, Eleni) Beltrami Herglotz functions for electromagnetic scattering theory in chiral media. (English summary) **2005k:35389**
Bal, Guillaume (*with* Verástegui, Ramón) Time reversal in changing environments. (English summary) **2005h:35378**
Balabane, Mikhaël Boundary decomposition for Helmholtz and Maxwell equations. I. Disjoint sub-scatterers. (English summary) **2005d:35031**
Bastos, Maria Amélia (*with* Moura Santos, Ana; dos Santos, A. F.) Wave diffraction by a strip grating: the two-straight line approach. (English summary) **2005e:35221**
van den Berg, Peter M. On the source type of integral equations for scattering by an object in a layered medium. (English summary) **2005m:35053**
— Erratum to: "On the source type of integral equations for scattering by an object in a layered medium" [Wave Motion **41** (2005), no. 3, 194–210; MR2120169 (2005m:35053)].
Bettess, Peter *see* **Laghrouche, Omar et al., 2005h:65214**
Bogy, David B. *see* **Budaev, Bair V., 2005c:35223**
Borcea, Liliana (*with* Papanicolaou, George; Tsogka, Chrysoula) Theory and applications of time reversal and interferometric imaging. (English summary) **2005a:94010**
Boyev, N. V. (*with* Sumbatyan, Mezhlum A.) Short-wave diffraction by bodies bounded by an arbitrary smooth surface. (Russian)
Bruno, Oscar P. (*with* McKay Hyde, E.) An efficient, preconditioned, high-order solver for scattering by two-dimensional inhomogeneous media. (English summary) **2005e:65211**
— *see also* **McKay Hyde, E., 2005h:65253**
Budaev, Bair V. (*with* Bogy, David B.) Wave scattering by surface-breaking cracks and cavities. (English summary) **2005c:35223**
Buffa, Annalisa (*with* Hiptmair, Ralf) A coercive combined field integral equation for electromagnetic scattering. (English summary) **2005k:65270**
Bui, Huy Duong *see* **Nguyen, Mai K. et al., 2005b:44003**
Butrym, A. Yu. (*with* Zheng, Yu[3]; Tretyakov, O. A.) Transient diffraction on a permittivity step in a waveguide: closed-form solution in time domain. (English summary) **2005d:78012**
Calás, H. *see* **Otero Hernández, José A. et al., 2005a:74046**
Castro, Luis P. (*with* Speck, Frank-Olme; Teixeira, Francisco S.) Explicit solution of a Dirichlet-Neumann wedge diffraction problem with a strip. (English summary) **2005m:35054**
— (*with* Speck, Frank-Olme; Teixeira, Francisco S.) On a class of wedge diffraction problems posted by Erhard Meister. (English summary) **2005b:35039**
Cheney, Margaret *see* **Nolan, Clifford J., 2005d:35287**
Darve, Eric (*with* Havé, Pascal) Efficient fast multipole method for low-frequency scattering. (English summary) **2005d:65245**
Delarbre, J. L. *see* **Nguyen, Mai K. et al., 2005b:44003**
Delgado, Fernando *see* **Ruschhaupt, A. et al., 2005i:81187**
Delitsyn, A. L. The problem of the diffraction of an electro-magnetic field in a cylindrical domain. (Russian) **2005i:35254**
Dempsey, James F. *see* **Romeijn, H. Edwin et al., 2005m:90175**
Doran, Chris *see* **Lasenby, Anthony et al., 2005h:81178**
Dossou, Kokou (*with* Packirisamy, Muthukumaran; Fontaine, Marie) Analysis of diffraction gratings by using an edge element method. (English summary)
Egidi, Nadaniela (*with* Maponi, Pierluigi) A perturbative method for direct scattering problems. (English summary) **2005m:35208**
Ekhlakov, A. V. *see* **Glushkov, Evgeny et al., (2005b:00020)**
Elfouhaily, Tanos Mikhael (*with* Guérin, Charles-Antoine) A critical survey of approximate scattering wave theories from random rough surfaces. (English summary) **2005d:35190**
Erëmin, Yu. A. *see* **Grishina, N. V. et al., 2005c:78015**
Fleming, John L. (*with* Wood, Aihua W.; Wood, William D.) A locally corrected Nyström method for EM scattering with a Fourier mode expansion. (English summary) **2005h:65262**
Fontaine, Marie *see* **Dossou, Kokou et al.**
Gadyl'shin, R. R. On resonance scattering in the two-dimensional averaging problem. (Russian)
Glushkov, Evgeny (*with* Glushkova, Natalya V.; Ekhlakov, A. V.) Wave excitation, propagation and diffraction in elastic layered structures with obstacles. (English summary) (*see* **2005b:00020**)
Glushkova, Natalya V. *see* **Glushkov, Evgeny et al., (2005b:00020)**
Grishina, N. V. (*with* Erëmin, Yu. A.; Sveshnikov, Alekseĭ Georgievich) The problem of transforming evanescent waves near a layer of substrate. (Russian. Russian summary) **2005c:78015**
Grote, Marcus J. (*with* Kirsch, Christoph; Meury, Patrick) Nonreflecting boundary conditions for multiple domain wave scattering in unbounded media. (English summary) **2005j:35029**
— (*with* Kirsch, Christoph) Dirichlet-to-Neumann boundary conditions for multiple scattering problems. (English summary) **2005h:65184**
Guérin, Charles-Antoine *see* **Elfouhaily, Tanos Mikhael, 2005d:35190**
Havé, Pascal *see* **Darve, Eric, 2005d:65245**
Hebermehl, Georg (*with* Hübner, Friedrich-Karl; Schlundt, Rainer; Tischler, Thorsten; Zscheile, Horst; Heinrich, Wolfgang) Simulation of microwave and semiconductor laser structures including absorbing boundary conditions. (English summary) (*see* **2005a:65001**)
Heinrich, Wolfgang *see* **Hebermehl, Georg et al., (2005a:65001)**
Hiptmair, Ralf *see* **Buffa, Annalisa, 2005k:65270**
Hübner, Friedrich-Karl *see* **Hebermehl, Georg et al., (2005a:65001)**
Jiang, Zheng-yi *see* **Zhang, Ran**
Jin, Jian Ming[2] *see* **Yılmaz, Ali E. et al., 2005h:78029**
Joly, Patrick (*with* Lenoir, Marc; Tordeux, Sébastien) Asymptotical models for wave propagation in media including slots. (*see* **2005b:00020**)
Kardasi, Eleni *see* **Athanasiadis, Christodoulos, 2005k:35389**
Khelifi, Abdessatar *see* **Ammari, Habib, 2005a:35262**
Khruslov, Evgeniĭ Yakovlevich (*with* Kotlyarov, Vladimir Petrovich) Generation of asymptotic solitons in an integrable model of stimulated Raman scattering by periodic boundary data. (English summary) **2005b:35265**
Kirsch, Christoph *see* **Grote, Marcus J. et al., 2005b:65184** *and* **2005j:35029**
Klibanov, Michael V. (*with* Timonov, A. A.) On the mathematical treatment of time reversal. (English summary) **2005c:35294**
Kotlyarov, Vladimir Petrovich *see* **Khruslov, Evgeniĭ Yakovlevich, 2005b:35265**
Kumar, Arvind[2] *see* **Romeijn, H. Edwin et al., 2005m:90175**
Laghrouche, Omar (*with* Bettess, Peter; Perrey-Debain, Emmanuel; Trevelyan, Jon) Wave interpolation finite elements for Helmholtz problems with jumps in the wave speed. (English summary) **2005h:65214**
Lasenby, Anthony (*with* Doran, Chris; Arcaute, Elsa) Applications of geometric algebra in electromagnetism, quantum theory and gravity. (English summary) **2005h:81178**
Lenoir, Marc *see* **Joly, Patrick et al., (2005b:00020)**
Leon, Jérôme Jp. *see* **Spire, A., 2005d:35192**
Levadoux, David P. (*with* Michielsen, Bastiaan L.) A new class of integral equations for scattering problems. (English summary) (*see* **2005b:00020**)
Linton, C. M. (*with* Martin, Paul Andrew) Semi-infinite arrays of isotropic point scatterers. A unified approach. (English summary) **2005b:76122**
Lyalinov, M. A. On an integral equation in the problem of the diffraction of a plane wave

by a transparent circular cone. (Russian. English and Russian summaries) **2005d:76038**
Maponi, Pierluigi *see* **Egidi, Nadaniela, 2005m:35208**
Martin, Paul Andrew *see* **Linton, C. M., 2005b:76122**
Maugin, Gérard A. *see* **Otero Hernández, José A. et al., 2005a:74046**
McKay Hyde, E. (*with* Bruno, Oscar P.) A fast, higher-order solver for scattering by penetrable bodies in three dimensions. (English summary) **2005h:65253**
— *see also* **Bruno, Oscar P., 2005e:65211**
Meury, Patrick *see* **Grote, Marcus J. et al., 2005j:35029**
Michielsen, Bastiaan L. *see* **Levadoux, David P., (2005b:00020)**
Michielssen, Eric *see* **Yılmaz, Ali E. et al., 2005h:78029**
Monsiváis, G. *see* **Otero Hernández, José A. et al., 2005a:74046**
Moura Santos, Ana *see* **Bastos, Maria Amélia et al., 2005e:35221**
Muga, J. G. *see* **Ruschhaupt, A. et al., 2005i:81187**
(Nagem, Raymond J.) *see* **Sommerfeld, Arnold, 2005g:78001**
Natterer, Frank An error bound for the Born approximation. (English summary) **2005e:35255**
Nguyen, Mai K. (*with* Truong, T. T.; Bui, Huy Duong; Delarbre, J. L.) A novel inverse problem in γ-rays emission imaging. (English summary) **2005b:44003**
Nolan, Clifford J. (*with* Cheney, Margaret) Microlocal analysis of synthetic aperture radar imaging. (English summary) **2005d:35287**
Otero Hernández, José A. (*with* Calás, H.; Rodríguez-Ramos, R.; Maugin, Gérard A.; Monsiváis, G.; Pérez-Alvarez, R.) Diffraction of transverse horizontal waves in Fibonacci piezoelectric superlattices. (English summary) **2005a:74046**
Packirisamy, Muthukumaran *see* **Dossou, Kokou et al.**
Papanicolaou, George *see* **Borcea, Liliana et al., 2005a:94010**
Pavel'ev, A. G. Vector diffraction integrals for solving inverse problems of the radio-holographic sounding of the Earth's surface and atmosphere. (Russian. English and Russian summaries) **2005h:86023**
Pérez-Alvarez, R. *see* **Otero Hernández, José A. et al., 2005a:74046**
Perrey-Debain, Emmanuel *see* **Laghrouche, Omar et al., 2005h:65214**
(Priestley, Joseph) *see* **Sommerfeld, Arnold, 2005g:78001**
Rawlins, A. D. A note on point source diffraction by a wedge. **2005d:35152**
Rodríguez-Ramos, R. *see* **Otero Hernández, José A. et al., 2005a:74046**
Romeijn, H. Edwin (*with* Ahuja, Ravindra K.; Dempsey, James F.; Kumar, Arvind[2]) A column generation approach to radiation therapy treatment planning using aperture. (English summary) **2005m:90175**
Ruan, J. W. *see* **Young, Der-Liang, 2005k:78009**
Ruschhaupt, A. (*with* Delgado, Fernando; Muga, J. G.) Physical realization of $\mathcal{PT}$-symmetric potential scattering in a planar slab waveguide. (English summary) **2005i:81187**
(Sandri, Guido) *see* **Sommerfeld, Arnold, 2005g:78001**
dos Santos, A. F. *see* **Bastos, Maria Amélia et al., 2005e:35221**
Scalia, Antonio *see* **Sumbatyan, Mezhlum A., 2005i:74044**
Schlundt, Rainer *see* **Hebermehl, Georg et al., (2005a:65001)**
Sommerfeld, Arnold ★ Mathematical theory of diffraction. **2005g:78001**
Speck, Frank-Olme *see* **Castro, Luis P. et al., 2005b:35039** *and* **2005m:35054**
Spire, A. (*with* Leon, Jérôme Jp.) Nonlinear absorption in discrete systems. (English summary) **2005d:35192**
Sumbatyan, Mezhlum A. (*with* Scalia, Antonio) ★ Equations of mathematical diffraction theory. **2005i:74044**
— *see also* **Boyev, N. V.**
Sveshnikov, Alekseĭ Georgievich *see* **Grishina, N. V. et al., 2005c:78015**
Teixeira, Francisco S. *see* **Castro, Luis P. et al., 2005b:35039** *and* **2005m:35054**
Timonov, A. A. *see* **Klibanov, Michael V., 2005c:35294**
Tischler, Thorsten *see* **Hebermehl, Georg et al., (2005a:65001)**
Tordeux, Sébastien *see* **Joly, Patrick et al., (2005b:00020)**
Tretyakov, O. A. *see* **Butrym, A. Yu. et al., 2005d:78012**
Trevelyan, Jon *see* **Laghrouche, Omar et al., 2005h:65214**
Truong, T. T. *see* **Nguyen, Mai K. et al., 2005b:44003**
Tsogka, Chrysoula *see* **Borcea, Liliana et al., 2005a:94010**
Tsynkov, S. V. Lacunae-based artificial boundary conditions for the numerical simulation of unsteady waves governed by vector models. (English summary) (*see* **2005b:00020**)
Van, Tri (*with* Wood, Aihua W.) A time-domain finite element method for Maxwell's equations. (English summary) **2005h:65173**
Verástegui, Ramón *see* **Bal, Guillaume, 2005h:35378**
Wood, Aihua W. *see* **Van, Tri, 2005h:65173** *and* **Fleming, John L. et al., 2005h:65262**
Wood, William D. *see* **Fleming, John L. et al., 2005h:65262**
Yılmaz, Ali E. (*with* Jin, Jian Ming[2]; Michielssen, Eric) Time domain adaptive integral method for surface integral equations. (English summary) **2005h:78029**
Yin, Hong-Ming On a nonlinear Maxwell's system in quasi-stationary electromagnetic fields. (English summary) **2005k:35399**
Young, Der-Liang (*with* Ruan, J. W.) Method of fundamental solutions for scattering problems of electromagnetic waves. (English summary) **2005k:78009**
(Zampolli, Mario) *see* **Sommerfeld, Arnold, 2005g:78001**
Zhang, Ran (*with* Jiang, Zheng-yi) A kind of boundary element methods for boundary value problem of Helmholtz equation.
Zheng, Yu[3] *see* **Butrym, A. Yu. et al., 2005d:78012**
Zscheile, Horst *see* **Hebermehl, Georg et al., (2005a:65001)**

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Ammari, Habib (*with* Kang, Hyeonbae; Kim, Eunjoo; Lim, Mikyoung) Reconstruction of closely spaced small inclusions. (English summary) **2005m:78011**
Anastasio, Mark A. *see* **Gbur, Greg et al.**
Banks, H. T. (*with* Gibson, Nathan L.; Winfree, William P.) Gap detection with electromagnetic terahertz signals. (English summary) **2005m:78012**
— (*with* Bokil, Vrushali A.) A computational and statistical framework for multidimensional domain acoustooptic material interrogation. (English summary) **2005j:78032**
Bao, Gang[1] (*with* Liu, Jun[4]) Numerical solution of inverse scattering problems with multi-experimental limit aperture data. (English summary) **2005b:78018**
Baussard, Alexandre (*with* Miller, Eric L.; Prémel, Denis) Adaptive B-spline scheme for solving an inverse scattering problem. (English summary) **2005c:78027**
Bokil, Vrushali A. *see* **Banks, H. T., 2005j:78032**
Borden, Brett *see* **Natterer, Frank et al., 2005a:78020** *and* **Cheney, Margaret, 2005b:78019**
Bruckner, Gottfried (*with* Elschner, Johannes) The numerical solution of an inverse periodic transmission problem. (English summary) **2005m:78013**
Cakoni, Fioralba (*with* Colton, David L.; Monk, P. B.) The electromagnetic inverse-scattering problem for partly coated Lipschitz domains. (English summary) **2005g:78016**
— (*with* Darrigrand, Eric) The inverse electromagnetic scattering problem for a mixed boundary value problem for screens. (English summary) **2005h:78015**
Carney, P. Scott (*with* Schotland, John C.) Near-field tomography. (English summary) **2005a:78017**
Cheney, Margaret (*with* Borden, Brett) Microlocal structure of inverse synthetic aperture radar data. (English summary) **2005b:78019**
— (*with* Nolan, Clifford J.) Synthetic-aperture imaging through a dispersive layer. (English summary) **2005c:78028**
— *see also* **Natterer, Frank et al., 2005a:78020**
Chew, Weng Cho *see* **Cui, Tie Jun et al., 2005b:78020**
Collino, Francis (*with* Fares, M'Barek; Haddar, Houssem) On the validation of the linear sampling method in electromagnetic inverse scattering problems. (*see* **2005b:00020**)
Colton, David L. (*with* Monk, P. B.) Herglotz wave functions in inverse electromagnetic scattering theory. **2005a:78018**
— *see also* **Cakoni, Fioralba et al., 2005g:78016**
Cui, Tie Jun (*with* Chew, Weng Cho; Yin, Xiao Xing; Hong, Wei[1]) Study of resolution and super resolution in electromagnetic imaging for half-space problems. (English summary) **2005b:78020**
Darrigrand, Eric *see* **Cakoni, Fioralba, 2005h:78015**
Dmitriev, Vladimir Ivanovich Multidimensional inverse problems of magnetotelluric sounding. (Russian. Russian summary) **2005a:78019**
Elschner, Johannes *see* **Bruckner, Gottfried, 2005m:78013**
Fares, M'Barek *see* **Collino, Francis et al., (2005b:00020)**
Fiks, G. E. (*with* Fiks, I. Sh.) Reconstruction of the directional diagram of a linear source from its near field. (Russian. English and Russian summaries) **2005k:78015**
Fiks, I. Sh. *see* **Fiks, G. E., 2005k:78015**
Gbur, Greg (*with* Anastasio, Mark A.; Huang, Yin; Shi, Daxin) Spherical-wave intensity diffraction tomography. (English summary)
Gibson, Nathan L. *see* **Banks, H. T. et al., 2005m:78012**
Haddar, Houssem *see* **Collino, Francis et al., (2005b:00020)**
Hong, Wei[1] *see* **Cui, Tie Jun et al., 2005b:78020**
Hou, Songming (*with* Sølna, Knut; Zhao, Hong-Kai) Imaging of location and geometry for extended targets using the response matrix. (English summary) **2005k:78016**
Huang, Yin *see* **Gbur, Greg et al.**
Kang, Hyeonbae *see* **Ammari, Habib et al., 2005m:78011**
Kim, Eunjoo *see* **Ammari, Habib et al., 2005m:78011**
Lashkin, Volodymyr M. Perturbation theory for dark solitons: inverse scattering transform approach and radiative effects. (English summary) **2005k:78017**
Lim, Mikyoung *see* **Ammari, Habib et al., 2005m:78011**
Liu, Jun[4] *see* **Bao, Gang[1], 2005b:78018**
Miller, Eric L. *see* **Baussard, Alexandre et al., 2005c:78027**
Monk, P. B. *see* **Colton, David L., 2005a:78018** *and* **Cakoni, Fioralba et al., 2005g:78016**
Natterer, Frank (*with* Cheney, Margaret; Borden, Brett) Resolution for radar and x-ray tomography. (English summary) **2005a:78020**
Nolan, Clifford J. *see* **Cheney, Margaret, 2005c:78028**
Persico, Raffaele (*with* Soldovieri, Francesco) Effects of uncertainty on background permittivity in one-dimensional linear inverse scattering. (English summary)
Prémel, Denis *see* **Baussard, Alexandre et al., 2005c:78027**
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Shi, Daxin *see* **Gbur, Greg et al.**
Soldovieri, Francesco *see* **Persico, Raffaele**
Sølna, Knut *see* **Hou, Songming et al., 2005k:78016**
Tortel, H. Electromagnetic imaging of a three-dimensional perfectly conducting object using a boundary integral formulation. (English summary) **2005c:78029**
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Yin, Xiao Xing *see* **Cui, Tie Jun et al., 2005b:78020**
Zhao, Hong-Kai *see* **Hou, Songming et al., 2005k:78016**

Items with secondary classifications in 78A46

Abubakar, Aria (*with* Habashy, Tarek M.; van den Berg, Peter M.; Gisolf, Dries) The diagonalized contrast source approach: an inversion method beyond the Born approximation. (English summary) **2005m:65122**
Arens, Tilo (*with* Kirsch, Andreas) The factorization method in inverse scattering from periodic structures. (English summary) **2005a:35275**
Bao, Gang[1] (*with* Li, Peijun) Inverse medium scattering for three-dimensional time harmonic Maxwell equations. (English summary) **2005b:35209**
Barriuso, Alberto G. (*with* Monzón, Juan J.; Sánchez-Soto, Luis L.; Cariñena, José F.) Vectorlike representation of multilayers. (English summary) **2005j:78001**
Beretta, Elena (*with* Francini, Elisa) Asymptotic formulas for perturbations in the electromagnetic fields due to the presence of thin inhomogeneities. (English summary) **2005a:35263**
van den Berg, Peter M. *see* **Abubakar, Aria et al., 2005m:65122**
Cakoni, Fioralba (*with* Haddar, Houssem) Interior transmission problem for anisotropic media. (*see* **2005b:00020**)
— (*with* Colton, David L.) A target signature for distinguishing perfect conductors from anisotropic media of finite conductivity. (English summary) **2005b:35269**
Cariñena, José F. *see* **Barriuso, Alberto G. et al., 2005j:78001**
Chandler-Wilde, Simon N. *see* **Lines, Claire, (2005b:00020)**
Colton, David L. *see* **Cakoni, Fioralba, 2005b:35269**
Elschner, Johannes (*with* Hsiao, G. C.; Rathsfeld, A.) Grating profile reconstruction based on finite elements and optimization techniques. (English summary) **2005d:35268**

— (*with* Yamamoto, Masahiro) Uniqueness results for an inverse periodic transmission problem. (English summary) **2005j:35223**
Eskin, Gregory Inverse boundary value problems in domains with several obstacles. (English summary) **2005h:35358**
Feijóo, Gonzalo R. A new method in inverse scattering based on the topological derivative. (English summary) **2005h:35359**
Francini, Elisa *see* **Beretta, Elena**, **2005a:35263**
Gisolf, Dries *see* **Abubakar, Aria et al.**, **2005m:65122**
Gutman, Semion (*with* Ramm, Alexander G.) Modified Rayleigh conjecture method for multidimensional obstacle scattering problems. (English summary) **2005k:35428**
Habashy, Tarek M. *see* **Abubakar, Aria et al.**, **2005m:65122**
Haddar, Houssem The interior transmission problem for anisotropic Maxwell's equations and its applications to the inverse problem. (English summary) **2005i:35255**
— *see also* **Cakoni, Fioralba**, (**2005b:00020**)
Hettlich, F. Reconstruction of periodic gratings from one scattered wave. (English summary) **2005f:35317**
Hsiao, G. C. *see* **Elschner, Johannes et al.**, **2005d:35268**
Hyvönen, Nuutti Complete electrode model of electrical impedance tomography: approximation properties and characterization of inclusions. (English summary) **2005e:35244**
Kirsch, Andreas The factorization method for Maxwell's equations. (English summary) **2005i:35285**
— *see also* **Arens, Tilo**, **2005a:35275**
Knudsen, Kim M. (*with* Tamasan, Alexandru) Reconstruction of less regular conductivities in the plane. (English summary) **2005e:35250**
Kress, Rainer Uniqueness in inverse obstacle scattering. (English summary) **2005a:35279**
Li, Peijun *see* **Bao, Gang**[1], **2005b:35209**
Lines, Claire (*with* Chandler-Wilde, Simon N.) Inverse scattering by rough surfaces in the time domain. (*see* **2005b:00020**)
Luke, D. Russell Multifrequency inverse obstacle scattering: the point source method and generalized filtered backprojection. (English summary) **2005h:35261**
Monzón, Juan J. *see* **Barriuso, Alberto G. et al.**, **2005j:78001**
Ramm, Alexander G. *see* **Gutman, Semion**, **2005k:35428**
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Yamamoto, Masahiro *see* **Elschner, Johannes**, **2005j:35223**
Yan, Guozheng Uniqueness of the inverse scattering problem of a locally perturbed half-plane. (English summary) **2005d:35194**
— Inverse scattering by a multilayered obstacle. (English summary)

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Alexandre, Radjesvarane (*with* Taha, Hassan) Propagation of electromagnetic waves in non-homogeneous media. (English summary) **2005d:78011**
Bhattacharyya, Rabindra Kumar *see* **Chattopadhyay, G.**, (**2005b:00020**)
Bronshtein, Alexander *see* **Kalugin, Alexander et al.**, **2005b:78021**
Chattopadhyay, G. (*with* Bhattacharyya, Rabindra Kumar) Determination of Green's tensor for a conducting magneto-viscoelastic medium. (*see* **2005b:00020**)
Combes, Jean-Michel (*with* Gralak, B.; Tip, A.) Spectral properties of absorptive photonic crystals. (English summary) (*see* **2004j:00029**)
Fiez, Terri *see* **Xu, Cheng-gang et al.**, **2005e:78021**
Gralak, B. *see* **Combes, Jean-Michel et al.**, (**2004j:00029**)
Hanson, George W. Dyadic Green's function for a multilayered planar medium—a dyadic eigenfunction approach. (English summary)
Kalugin, Alexander (*with* Bronshtein, Alexander; Mazar, Reuven) Propagation of the two-frequency coherence function in an inhomogeneous background random medium. (English summary) **2005b:78021**
Mayaram, Kartikeya *see* **Xu, Cheng-gang et al.**, **2005e:78021**
Mazalov, V. N. (*with* Smagin, S. I.) Electromagnetic fields of dipole sources in layered media. (Russian. Russian summary) **2005b:78022**
Mazar, Reuven *see* **Kalugin, Alexander et al.**, **2005b:78021**
Smagin, S. I. *see* **Mazalov, V. N.**, **2005b:78022**
Stallinga, Sjoerd Strehl ratio for focusing into biaxially birefringent media. (English summary)
Taha, Hassan *see* **Alexandre, Radjesvarane**, **2005d:78011**
Tip, A. *see* **Combes, Jean-Michel et al.**, (**2004j:00029**)
Xu, Cheng-gang (*with* Fiez, Terri; Mayaram, Kartikeya) An efficient formulation for substrate parasitic extraction accounting for nonuniform current distribution. (English summary) **2005e:78021**

Items with secondary classifications in 78A48

Berlyand, Leonid (*with* Mityushev, V.) Increase and decrease of the effective conductivity of two phase composites due to polydispersity. (English summary) **2005k:74021**
Caorsi, Salvatore (*with* Pastorino, Matteo) Scattering by multilayer isorefractive elliptic cylinders. (English summary) **2005a:78013**
De Zutter, Daniël *see* **Vande Ginste, Dries et al.**
Grudskiĭ, Sergeĭ M. (*with* Khmelnytskaya, Kira V.; Kravchenko, Vladislav V.) On a quaternionic Maxwell equation for the time-dependent electromagnetic field in a chiral medium. (English summary) **2005h:78007**
Jochmann, Frank A small domain limit for nonlinear dielectric media. **2005f:35299**
Khmelnytskaya, Kira V. *see* **Grudskiĭ, Sergeĭ M. et al.**, **2005h:78007**
Klein, Abel (*with* Koines, Andrew) A general framework for localization of classical waves. II. Random media. (English summary) **2005d:35249**
Koines, Andrew *see* **Klein, Abel**, **2005d:35249**
Kravchenko, Vladislav V. *see* **Grudskiĭ, Sergeĭ M. et al.**, **2005h:78007**
Lipton, Robert Homogenization theory and the assessment of extreme field values in composites with random microstructure. (English summary) **2005k:35021**
Mityushev, V. *see* **Berlyand, Leonid**, **2005k:74021**
Olyslager, Frank *see* **Vande Ginste, Dries et al.**
Pastorino, Matteo *see* **Caorsi, Salvatore**, **2005a:78013**
Rogier, Hendrik *see* **Vande Ginste, Dries et al.**
Vande Ginste, Dries (*with* Rogier, Hendrik; Olyslager, Frank; De Zutter, Daniël) A fast multipole method for layered media based on the application of perfectly matched layers—the 2-D case. (English summary)

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Aksoy, S. (*with* Tretyakov, O. A.) Evolution equations for analytical study of digital signals in waveguides. (English summary) **2005a:78021**
Antonopoulos, Christos S. *see* **Kantartzis, Nikolaos V. et al.**
Athanassoulis, Gerassimos A. (*with* Belibassakis, Konstadinos A.) Rapidly-convergent local-mode representations for wave propagation and scattering in curved-boundary waveguides. (English summary) (*see* **2005b:00020**)
Azar, Badih *see* **Sayah, Toni**
Bao, Carmen *see* **Fernández-Pousa, C. R. et al.**, **2005a:78023**
Barkovskiĭ, L. M. *see* **Novitsky, A. V.**, **2005k:78019**
Bartoli, Nathalie (*with* Collino, Francis; Dodu, Fabrice) Using the multipole techniques for the far to near field transformation. (English summary) (*see* **2005b:00020**)
Bekers, D. J. (*with* van Eijndhoven, S. J. L.; van de Ven, Alphons A. F.) Modeling and analysis of a long thin conducting stripline. (English summary) **2005b:78023**
Belibassakis, Konstadinos A. *see* **Athanassoulis, Gerassimos A.**, (**2005b:00020**)
Bespalov, A. N. (*with* Kuznetsov, Yuriĭ Alekseevich[1]; Tabarovsky, Lev) Mathematical modeling and numerical methods for induction logging applications. (*see* **2005b:00020**)
Boardman, Allan D. (*with* Xie, Ming; Xie, Kang) Spatial bright–dark solitons in transversely magnetized coupled waveguides. (English summary)
Bogolyubov, Aleksandr Nikolaevich (*with* Malykh, M. D.; Ponomareva, V. L.) On the spectral properties of an electromagnetic waveguide with a nonhomogeneous filling. (Russian. Russian summary)
Bondo, Torsten (*with* Sørensen, Stig Busk) Physical optics analysis of beam waveguides using auxiliary planes. (English summary)
Boyd, Stephen P. *see* **Lorenz, Robert G.**
Butrym, A. Yu. (*with* Zheng, Yu[3]; Tretyakov, O. A.) Transient diffraction on a permittivity step in a waveguide: closed-form solution in time domain. (English summary) **2005d:78012**
Chen, Xianfeng *see* **Liao, Weijun et al.**, **2005j:78035**
Chen, Yingli *see* **Liao, Weijun et al.**, **2005j:78035**
Chen, Yuping *see* **Liao, Weijun et al.**, **2005j:78035**
Christopoulos, Christos *see* **Thompson, Ian et al.**, **2005m:78015**
Collino, Francis *see* **Bartoli, Nathalie et al.**, (**2005b:00020**)
Conway, John T. New exact solution procedure for the near fields of the general thin circular loop antenna. (English summary)
Costanzo, S. (*with* Di Massa, G.) Far-field reconstruction from phaseless near-field data on a cylindrical helix. (English summary) **2005e:78022**
Craeye, Christophe (*with* Tijhuis, A. G.; Schaubert, D. H.) An efficient MoM formulation for finite-by-infinite arrays of two-dimensional antennas arranged in a three-dimensional structure. (English summary) **2005a:78022**
— (*with* Parvais, Bertrand; Dardenne, Xavier) MoM simulation of signal-to-noise patterns in infinite and finite receiving antenna arrays. (English summary)
Dai, Daoxin (*with* He, Sailing) Accurate two-dimensional model of an arrayed-waveguide grating demultiplexer and optimal design based on the reciprocity theory. (English summary) **2005j:78033**
Dardenne, Xavier *see* **Craeye, Christophe et al.**
Di Massa, G. *see* **Costanzo, S.**, **2005e:78022**
Djordjević, Miroslav (*with* Notaroš, Branislav M.) Double higher order method of moments for surface integral equation modeling of metallic and dielectric antennas and scatterers. (English summary)
Dodu, Fabrice *see* **Bartoli, Nathalie et al.**, (**2005b:00020**)
Dossou, Kokou (*with* Fontaine, Marie) A high order isoparametric finite element method for the computation of waveguide modes. (English summary) **2005g:78017**
van Eijndhoven, S. J. L. *see* **Bekers, D. J. et al.**, **2005b:78023**
Eom, Hyo J. *see* **Kwon, Jae Y.**
Fernández-Pousa, C. R. (*with* Mateos, Felipe; Flores-Arias, M. T.; Bao, Carmen; Pérez, M. V.) Analysis of planar waveguides using Wentzel-Kramers-Brillouin-type methods. (English summary) **2005a:78023**
Filippychev, D. S. Using condensing grids to simulate an electron-beam relativistic amplifier in a cylindrical waveguide with a plasma-dielectric filling. (English summary) **2005b:78024**
Flores-Arias, M. T. *see* **Fernández-Pousa, C. R. et al.**, **2005a:78023**
Fontaine, Marie *see* **Dossou, Kokou**, **2005g:78017**
Gómez Martín, Rafael *see* **Monorchio, Agostino et al.**, **2005h:78016**
Guo, Qi-Zhi *see* **Meng, Yi-Chao et al.**, **2005c:78030**
Hanson, George W. *see* **Karchevskii, Evgenii**, (**2005b:00020**)
He, Sailing *see* **Dai, Daoxin**, **2005j:78033**
Huang, Zhao-Ming *see* **Meng, Yi-Chao et al.**, **2005c:78030**
Il'inskiĭ, A. S. Substantiation of the spectral method for calculating propagation constants for waveguides with microstrip and slit lines. (English summary) **2005j:78034**
Jiao, Pei-Nan *see* **Li, Le-Wei et al.**
Kaiser, Gerald Making electromagnetic wavelets. (English summary) **2005g:78018**
— Making electromagnetic wavelets. II. Spheroidal shell antennas. (English summary) **2005k:78018**
Kantartzis, Nikolaos V. (*with* Katsibas, Theodoros K.; Antonopoulos, Christos S.; Tsiboukis, Theodoros D.) A 3D multimodal FDTD algorithm for electromagnetic and acoustic propagation in curved waveguides and bent ducts of varying cross-section. (English summary)
Karchevskii, Evgenii (*with* Hanson, George W.) Mathematical analysis of the guided modes of integrated optical guides. (English summary) (*see* **2005b:00020**)
Karlsson, Anders[1] Physical limitations of antennas in a lossy medium. (English summary)
Katsibas, Theodoros K. *see* **Kantartzis, Nikolaos V. et al.**
Kong, Jin A. *see* **Li, Le-Wei et al.**

Kupriyanova, S. N. (*with* Smirnov, Yu. G.) Propagation of electro-magnetic waves in cylindrical dielectric waveguides filled with a nonlinear medium. (Russian. Russian summary) **2005m:78014**

Kuznetsov, Yurīĭ Alekseevich[1] *see* **Bespalov, A. N. et al.**, (**2005b:00020**)

Kwon, Jae Y. (*with* Eom, Hyo J.) Electromagnetic transmission of an oblique waveguide array. (English summary)

Li, Le-Wei (*with* Jiao, Pei-Nan; Shi, Xiao-Wei; Kong, Jin A.) Closed-form solution to electromagnetic fields in far zone radiated by toroidal antennas. (English summary)

Liao, Weijun (*with* Chen, Xianfeng; Chen, Yuping; Xia, Yuxing; Chen, Yingli) Explicit analysis of anisotropic planar waveguides by the analytical transfer-matrix method. (English summary) **2005j:78035**

Lin, Wei Gan (*with* Yu, Zhiyuan; Yung, E. K. N.; Luk, K. M.) Theory of *dn* function waveguides. (English summary)

— (*with* Yu, Zhiyuan) Theory of *cn* waveguide. (English summary)

Lorenz, Robert G. (*with* Boyd, Stephen P.) Robust minimum variance beamforming. (English summary)

Lu, Ya Yan A fourth-order Magnus scheme for Helmholtz equation. (English summary) **2005g:78019**

Luk, K. M. *see* **Lin, Wei Gan et al.**

Malykh, M. D. *see* **Bogolyubov, Aleksandr Nikolaevich et al.**

Manara, Giuliano *see* **Monorchio, Agostino et al.**, **2005h:78016**

Mateos, Felipe *see* **Fernández-Pousa, C. R. et al.**, **2005a:78023**

Meng, Yi-Chao (*with* Guo, Qi-Zhi; Tan, Wei-Han; Huang, Zhao-Ming) Analytical solutions of coupled-mode equations for multiwaveguide systems, obtained by use of Chebyshev and generalized Chebyshev polynomials. (English summary) **2005c:78030**

Mittra, Raj *see* **Monorchio, Agostino et al.**, **2005h:78016**

Monorchio, Agostino (*with* Rubio Bretones, Amelia; Mittra, Raj; Manara, Giuliano; Gómez Martín, Rafael) A hybrid time-domain technique that combines the finite element, finite difference and method of moment techniques to solve complex electromagnetic problems. (English summary) **2005h:78016**

Notaroš, Branislav M. *see* **Djordjević, Miroslav**

Novitsky, A. V. (*with* Barkovskiĭ, L. M.) Operator matrices for describing guiding propagation in circular bianisotropic fibres. (English summary) **2005k:78019**

Park, Mahn Yong *see* **Song, G. Hugh**, **2005d:78013**

Parvais, Bertrand *see* **Craeye, Christophe et al.**

Pérez, M. V. *see* **Fernández-Pousa, C. R. et al.**, **2005a:78023**

Ponomareva, V. L. *see* **Bogolyubov, Aleksandr Nikolaevich et al.**

Rubio Bretones, Amelia *see* **Monorchio, Agostino et al.**, **2005h:78016**

Savenko, P. O. The structure of solutions of the problem of the synthesis of a microstrip array from the given amplitude of the directional diagram. (Ukrainian. English, Russian and Ukrainian summaries) **2005f:78004**

Sayah, Toni (*with* Azar, Badih) Effect of junction on electromagnetic waveguide transmission. (English summary)

Schaubert, D. H. *see* **Craeye, Christophe et al.**, **2005a:78022**

Shi, Xiao-Wei *see* **Li, Le-Wei et al.**

Smirnov, Yu. G. *see* **Kupriyanova, S. N.**, **2005m:78014**

Song, G. Hugh (*with* Park, Mahn Yong) Bessel-function analysis of the optimized star coupler for uniform power splitting. (English summary) **2005d:78013**

Sørensen, Stig Busk *see* **Bondo, Torsten**

Tabarovsky, Lev *see* **Bespalov, A. N. et al.**, (**2005b:00020**)

Tan, Wei-Han *see* **Meng, Yi-Chao et al.**, **2005c:78030**

Tew, Richard *see* **Thompson, Ian et al.**, **2005m:78015**

Thompson, Ian (*with* Tew, Richard; Christopoulos, Christos) Mode generation and diffraction at the aperture of a waveguide. (English summary) **2005m:78015**

Tijhuis, A. G. *see* **Craeye, Christophe et al.**, **2005a:78022**

Tretyakov, O. A. *see* **Aksoy, S.**, **2005a:78021** *and* **Butrym, A. Yu. et al.**, **2005d:78012**

Tsiboukis, Theodoros D. *see* **Kantartzis, Nikolaos V. et al.**

van de Ven, Alphons A. F. *see* **Bekers, D. J. et al.**, **2005b:78023**

Wang, Xu-Jia On the design of a reflector antenna. II. (English summary) **2005f:78005**

Xia, Yuxing *see* **Liao, Weijun et al.**, **2005j:78035**

Xie, Kang *see* **Boardman, Allan D. et al.**

Xie, Ming *see* **Boardman, Allan D. et al.**

Yu, Zhiyuan *see* **Lin, Wei Gan et al.**

Yung, E. K. N. *see* **Lin, Wei Gan et al.**

Zheng, Yu[3] *see* **Butrym, A. Yu. et al.**, **2005d:78012**

Items with secondary classifications in 78A50

Ablowitz, Mark J. (*with* Musslimani, Ziad H.) Discrete scalar and vector diffraction-managed nonlinear Schrödinger equation. (English summary) **2005i:78008**

Aeyels, Dirk *see* **Rogge, J. A.**, **2005m:34092**

Alexandrov, Oleg (*with* Ciraolo, Giulio) Wave propagation in a 3-D optical waveguide. (English summary) **2005f:35049**

Ammari, Habib (*with* Triki, Faouzi) Resonances for microstrip transmission lines. (English summary) **2005c:35053**

Amstutz, Samuel *see* **Samet, Bessem et al.**, **2005b:49071**

Antipov, Yuri A. (*with* Fokas, A. S.) The modified Helmholtz equation in a semi-strip. (English summary) **2005k:35058**

Arsen'ev, A. A. On a relation between a pole of the scattering matrix and the transmission and reflection coefficients in the case of scattering in a quantum waveguide. (Russian. Russian summary) **2005i:81184**

Bakhrakh, L. D. (*with* Izrailovich, M. Ya.) Optimal control of the radiation of supershort-pulse antennas under packet mode operation. (Russian)

Balbastre, J. V. *see* **Rodríguez-Mattalia, S. et al.**, **2005m:65281**

Bao, Gang[1] (*with* Huang, Kai[1]) Optimal design of waveguide-grating resonances. (*see* **2005b:00020**)

Biro, Thomas (*with* Nilsson, Börje) Multiple scattering of microwaves from septum discontinuities in a circular bend. (English summary) **2005m:78008**

Borisov, Denis I. (*with* Exner, Pavel) Exponential splitting of bound states in a waveguide with a pair of distant windows. (English summary) **2005b:81030**

Brio, Moysey *see* **Zakharian, Aramis R. et al.**, **2005i:65129**

Cai, Wei Numerical methods for Maxwell's equations in inhomogeneous media with material interfaces. (English summary) **2005c:78016**

Cecot, Witold Modeling of electromagnetic fields in rectangular waveguides by coupled finite-infinite elements. (English summary) **2005j:65138**

Champagne, Isabelle (*with* Henry, Jacques) Riccati equation for the impedance of waveguides. (*see* **2005b:00020**)

Chen, Zhi Ming[1] (*with* Yuan, Jian-hua) On finite element methods for inhomogeneous dielectric waveguides. (English summary) **2005d:65206**

Ciraolo, Giulio *see* **Alexandrov, Oleg**, **2005f:35049**

Craddock, Ian J. *see* **Railton, Chris J. et al.**

Denisova, Irina Vlad. *see* **Derguzov, V. I.**

Derguzov, V. I. (*with* Denisova, Irina Vlad.) Projection and resolving operators of a three-dimensional periodic waveguide. (English summary)

Doedel, Eusebius *see* **Pando Lambruschini, Carlos L.**, **2005f:35288**

Exner, Pavel *see* **Borisov, Denis I.**, **2005b:81030**

Fokas, A. S. *see* **Antipov, Yuri A.**, **2005k:35058**

Givoli, Dan (*with* Patlashenko, Igor) Dirichlet-to-Neumann boundary condition for time-dependent dispersive waves in three-dimensional guides. (English summary) **2005g:65143**

Henry, Jacques *see* **Champagne, Isabelle**, (**2005b:00020**)

Hong, Wei[1] *see* **Xu, Feng**[8]

Huang, Kai[1] *see* **Bao, Gang**[1], (**2005b:00020**)

Izrailovich, M. Ya. *see* **Bakhrakh, L. D.**

Jódar, Lucas *see* **Rodríguez-Mattalia, S. et al.**, **2005m:65281**

Kal'vin, V. O. (*with* Neittaanmäki, Pekka; Plamenevskiĭ, B. A.) On a method of search for trapped modes in domains with cylindrical ends. (English summary) (*see* **2005b:00020**)

Koh, Boon Ping *see* **Railton, Chris J. et al.**

Kuchment, Peter (*with* Ong, BengSeong) On guided waves in photonic crystal waveguides (English summary) **2005a:35212**

— On some spectral problems of mathematical physics. (English summary) **2005f:35227**

Lee, Jin-Fa *see* **Lee, Seung-Cheol et al.**, **2005f:65169**

Lee, Seung-Cheol (*with* Vouvakis, Marinos N.; Lee, Jin-Fa) A non-overlapping domain decomposition method with non-matching grids for modeling large finite antenna arrays. (English summary) **2005f:65169**

Masmoudi, Mohamed *see* **Samet, Bessem et al.**, **2005b:49071**

Moloney, Jerome V. *see* **Zakharian, Aramis R. et al.**, **2005i:65129**

Musslimani, Ziad H. *see* **Ablowitz, Mark J.**, **2005i:78008**

Neittaanmäki, Pekka *see* **Kal'vin, V. O. et al.**, (**2005b:00020**)

Nilsson, Börje *see* **Biro, Thomas**, **2005m:78008**

Nuño, L. *see* **Rodríguez-Mattalia, S. et al.**, **2005m:65281**

Olyslager, Frank Discretization of continuous spectra based on perfectly matched layers. (English summary) **2005b:34051**

Ong, BengSeong *see* **Kuchment, Peter**, **2005a:35212**

Pando Lambruschini, Carlos L. (*with* Doedel, Eusebius) Defect-induced spatial coherence in the discrete nonlinear Schrödinger equation. (English summary) **2005f:35288**

Patlashenko, Igor *see* **Givoli, Dan**, **2005g:65143**

Pavlov, Boris S. (*with* Robert, Kieran) Resonance optical switch: calculation of resonance eigenvalues. (English summary) **2005b:35214**

Plamenevskiĭ, B. A. *see* **Kal'vin, V. O. et al.**, (**2005b:00020**)

Popov, Igor Yu. Asymptotics of bound states, bands and resonances for waveguides and layers coupled through small windows. (English summary) (*see* **2005b:00020**)

Railton, Chris J. (*with* Koh, Boon Ping; Craddock, Ian J.) The treatment of thin wires in the FDTD method using a weighted residuals approach. (English summary)

Robert, Kieran *see* **Pavlov, Boris S.**, **2005b:35214**

Rodríguez-Mattalia, S. (*with* Nuño, L.; Jódar, Lucas; Balbastre, J. V.) An improvement of the finite-element method for computing the electric field of waveguides with complex geometry. (English summary) **2005m:65281**

Rogge, J. A. (*with* Aeyels, Dirk) Stability of phase locking in a ring of unidirectionally coupled oscillators. (English summary) **2005m:34092**

Rvachev, V. L. (*with* Semerich, Yu. S.; Sheĭko, T. I.) The method of *R*-functions in the problem of the investigation of waveguides with geometric singularities. (Russian English, Russian and Ukrainian summaries)

Samet, Bessem (*with* Amstutz, Samuel; Masmoudi, Mohamed) The topological asymptotic for the Helmholtz equation. (English summary) **2005b:49071**

Semerich, Yu. S. *see* **Rvachev, V. L. et al.**

Sheĭko, T. I. *see* **Rvachev, V. L. et al.**

Smirnov, Yu. G. (*with* Tsupak, A. A.) Investigation of an electromagnetic problem of diffraction by a dielectric body using the method of a volume singular integral equation. (Russian. Russian summary) **2005k:78011**

Triki, Faouzi *see* **Ammari, Habib**, **2005c:35053**

Tsupak, A. A. *see* **Smirnov, Yu. G.**, **2005k:78011**

Vouvakis, Marinos N. *see* **Lee, Seung-Cheol et al.**, **2005f:65169**

Xu, Feng[8] (*with* Hong, Wei[1]) Domain decomposition FDTD algorithm for the analysis of a new type of E-plane sectorial Horn with aperture field distribution optimization (English summary)

Yuan, Jian-hua *see* **Chen, Zhi Ming**[1], **2005d:65206**

Zakharian, Aramis R. (*with* Brio, Moysey; Moloney, Jerome V.) FDTD based second-order accurate local mesh refinement method for Maxwell's equations in two space dimensions. (English summary) **2005i:65129**

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Agamennoni, O. (*with* Škrjanc, I.; Lepetic, M.; Chiacchiarini, H.; Matko, D.) Nonlinear uncertainty model of a magnetic suspension system. (English summary) **2005j:78036**

Bai, Zhao-jun (*with* Dewilde, Patrick M.; Freund, Roland W.) Reduced-order modeling. (English summary)

Belahcen, A. Magnetoelastic coupling and Rayleigh damping. (English summary)

Beltrame, Ph. Modelisation of thin cracks with varying conductivity in eddy-current testing. (English summary)

Černý, Robert *see* **Přikryl, P. et al.**, (**2005b:65003**)

Chiacchiarini, H. *see* **Agamennoni, O. et al., 2005j:78036**
Collino, Francis *see* **Sun, Jiguang et al., 2005c:78031**
De Gersem, Herbert (*with* Hameyer, Kay; Weiland, Thomas) Field-circuit coupled models in electromagnetic simulation. (English summary)
Dewilde, Patrick M. *see* **Bai, Zhao-jun et al.**
Du, Ding-Zhu *see* **Jia, Xiaohua et al., 2005a:78024**
Franceschetti, Massimo Stochastic rays pulse propagation. (English summary)
Freund, Roland W. *see* **Bai, Zhao-jun et al.**
Gatskevich, E. *see* **Přikryl, P. et al., (2005b:65003)**
Gavel, Donald T. *see* **Wiberg, Donald M. et al.**
Hameyer, Kay *see* **De Gersem, Herbert et al.**
Hu, Xiao Dong *see* **Jia, Xiaohua et al., 2005a:78024**
Ioan, Daniel (*with* Rebican, Mihai) Extraction of B-H hysteresis model from measurements with non-uniform magnetic field. (English summary) (*see* **2005c:00018**)
Jia, Xiaohua (*with* Hu, Xiao Dong; Du, Ding-Zhu) ★ Multiwavelength optical networks. **2005a:78024**
Kang, Jenam (*with* Kim, Chwail; Wang, Semyung) Reliability-based topology optimization for electromagnetic systems. (English summary)
Kim, Chwail *see* **Kang, Jenam et al.**
Kojima, Fumio Inverse problems related to electromagnetic nondestructive evaluation. (English summary) **2005a:78025**
Lendaro, Cristina A method for generating a high uniform magnetic field along a solenoid longitudinal axis. (English summary) **2005h:78017**
Lepetic, M. *see* **Agamennoni, O. et al., 2005j:78036**
Liebling, Michael (*with* Unser, Michael) Autofocus for digital Fresnel holograms by use of a Fresnelet-sparsity criterion. (English summary)
Matko, D. *see* **Agamennoni, O. et al., 2005j:78036**
Max, Claire E. *see* **Wiberg, Donald M. et al.**
Mikołajewicz, Jacek *see* **Nowak, Lech**
Monk, P. B. *see* **Sun, Jiguang et al., 2005c:78031**
Nowak, Lech (*with* Mikołajewicz, Jacek) Field-circuit model of the dynamics of electromechanical device supplied by electronic power converters. (English summary)
Ostudīn, B. A. (*with* Romanenko, Anatoliy Vitaliyovich) Mathematical modeling of the motion of a high-current beam of charged particles in a self-consistent 3D-field. (Ukrainian. English, Russian and Ukrainian summaries) **2005h:78018**
Patecki, Andrzej (*with* Stępień, Sławomir; Szymański, Grzegorz) Power losses analysis in the windings of electromagnetic gear. (English summary)
Přikryl, P. (*with* Gatskevich, E.; Černý, Robert) Computational solution of a two-phase moving boundary problem with two moving interfaces in pulsed laser processing of semiconductors. (English summary) (*see* **2005b:65003**)
Rebican, Mihai *see* **Ioan, Daniel, (2005c:00018)**
Romanenko, Anatoliy Vitaliyovich *see* **Ostudīn, B. A., 2005h:78018**
Schilders, W. H. A. *see* **Wachters, A. J. H.**
Simpson, Jamesina J. (*with* Taflove, Allen) Three-dimensional FDTD modeling of impulsive ELF propagation about the Earth-sphere. (English summary)
Škrjanc, I. *see* **Agamennoni, O. et al., 2005j:78036**
Stępień, Sławomir *see* **Patecki, Andrzej et al.**
Sujka, P. *see* **Szelag, W. et al.**
Sun, Jiguang (*with* Collino, Francis; Monk, P. B.; Wang, Lei) An eddy-current and micromagnetism model with applications to disk write heads. (English summary) **2005c:78031**
Szelag, W. (*with* Sujka, P.; Walendowski, R.) Field-circuit transient analysis of a magnetorheological fluid brake. (English summary)
Szymański, Grzegorz *see* **Patecki, Andrzej et al.**
Taflove, Allen *see* **Simpson, Jamesina J.**
Unser, Michael *see* **Liebling, Michael**
Vacus, Olivier (*with* Vukadinovic, Nicolas) Dynamic susceptibility computations for thin magnetic films. (English summary) **2005i:78010**
Vukadinovic, Nicolas *see* **Vacus, Olivier, 2005i:78010**
Wachters, A. J. H. (*with* Schilders, W. H. A.) Simulation of EMC behaviour.
Walendowski, R. *see* **Szelag, W. et al.**
Wang, Lei *see* **Sun, Jiguang et al., 2005c:78031**
Wang, Semyung *see* **Kang, Jenam et al.**
Weiland, Thomas *see* **De Gersem, Herbert et al.**
Wiberg, Donald M. (*with* Max, Claire E.; Gavel, Donald T.) Geometric view of adaptive optics control. (English summary)

Items with secondary classifications in 78A55

Ambur, Damodar R. *see* **Hasanyan, Davresh J. et al., 2005c:74025**
Andrés, Y. N. (*with* Pelaez, Jesus) Stability of electrodynamic tethers in inclined elliptical orbit. (Spanish. Spanish summary) **2005g:70045**
Baksi, Arup (*with* Bera, Rasajit Kumar) Eigenfunction expansion method for the solution of magneto-thermoelastic problems with thermal relaxation and heat source in two dimensions. (English summary) **2005k:74022**
Bera, Rasajit Kumar *see* **Baksi, Arup, 2005k:74022**
Bermúdez de Castro, Alfredo (*with* Rodríguez, Rodolfo; Salgado, Pilar) FEM for 3D eddy current problems in bounded domains subject to realistic boundary conditions. An application to metallurgical electrodes. (English summary) **2005m:78027**
Billardon, René *see* **Daniel, Laurent et al., 2005m:74032**
Cimmelli, V. A. (*with* Oliveri, Francesco; Pace, A. R.) Thermo-electrodynamics of rigid superconductors. (English summary) **2005i:82063**
Daniel, Laurent (*with* Hubert, Olivier; Billardon, René) Homogenisation of magneto-elastic behaviour: from the grain to the macro scale. (English summary) **2005m:74032**
Dulov, Eugene V. (*with* Sinitsyn, Aleksandr) A numerical modelling of the limit problem for the magnetically noninsulated diode. (English summary) **2005h:65122**
Dzhangveladze, T. A. (*with* Kiguradze, Z.) Estimates of the stabilization rate as $t \to \infty$ of solutions of the nonlinear integro-differential diffusion system. (English and Georgian summaries) **2005b:35127**
Fisette, Paul *see* **Sass, L. et al.**
Grenier, D. *see* **Sass, L. et al.**
Guan, Qun (*with* He, Shun Rong) General solution of the plane problem in piezoelectric, piezomagnetic and elastic media. (Chinese. English and Chinese summaries)
Hasanyan, Davresh J. (*with* Librescu, Liviu; Ambur, Damodar R.) A few results on the foundation of the theory and behavior of nonlinear magnetoelastic plates carrying an electrical current. (English summary) **2005c:74025**
He, Shun Rong *see* **Guan, Qun**
Heese, Harald An integral equation method for a boundary value problem in superconductivity. (English summary) **2005f:35050**
Herwanger, Jörg V. *see* **Pain, Christopher C. et al., 2005c:78038**
Hubert, Olivier *see* **Daniel, Laurent et al., 2005m:74032**
Ikehata, Masaru (*with* Nakamura, Gen[1]) Reconstruction formula for identifying cracks. (English summary) **2005b:35291**
Jiang, Yao-Lin On time-domain simulation of lossless transmission lines with nonlinear terminations. (English summary) **2005i:65111**
Kärkkäinen, Mikko K. FDTD model of electrically thick frequency-dispersive coatings on metals and semiconductors based on surface impedance boundary conditions. (English summary)
Kengne, Emmanuel Envelope modulational instability in the nonlinear dissipative transmission line. (English and Ukrainian summaries)
Kiguradze, Z. *see* **Dzhangveladze, T. A., 2005b:35127**
Klocke, M. Axisymmetric transient electromagnetic finite-difference scheme including prescribed motion. (English summary)
Librescu, Liviu *see* **Hasanyan, Davresh J. et al., 2005c:74025**
Ling, Yi[1] *see* **Liu, Fengshan et al., 2005c:42038**
Liu, Fengshan (*with* Ling, Yi[1]; Xia, Xiang-Gen; Shi, Xi Quan[2]) Wavelet methods for ground penetrating radar imaging. (English summary) **2005c:42038**
Lohöfer, G. An electrically conducting sphere in a three-dimensional, alternating magnetic field. (English summary) **2005b:78004**
Luongo, C. A. *see* **Mao, Shaolin, (2005b:65003)**
Mao, Shaolin (*with* Luongo, C. A.) Numerical simulation of moving boundary problems in superconducting magnets. (English summary) (*see* **2005b:65003**)
McPhee, John J. *see* **Sass, L. et al.**
Nakamura, Gen[1] *see* **Ikehata, Masaru, 2005b:35291**
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Pace, A. R. *see* **Cimmelli, V. A. et al., 2005i:82063**
Pain, Christopher C. (*with* Herwanger, Jörg V.; Saunders, Jonathan H.; Worthington, Michael H.; de Oliveira, Cassiano R. E.) Anisotropic resistivity inversion. (English summary) **2005c:78038**
Pelaez, Jesus *see* **Andrés, Y. N., 2005g:70045**
Podio-Guidugli, Paolo (*with* Tomassetti, Giuseppe) On the evolution of domain walls in hard ferromagnets. (English summary) **2005k:82105**
Rodríguez, Rodolfo *see* **Bermúdez de Castro, Alfredo et al., 2005m:78027**
Salgado, Pilar *see* **Bermúdez de Castro, Alfredo et al., 2005m:78027**
Sass, L. (*with* McPhee, John J.; Schmitke, C.; Fisette, Paul; Grenier, D.) A comparison of different methods for modelling electromechanical multibody systems. (English summary)
Saunders, Jonathan H. *see* **Pain, Christopher C. et al., 2005c:78038**
Savenko, P. O. The structure of solutions of the problem of the synthesis of a microstrip array from the given amplitude of the directional diagram. (Ukrainian. English, Russian and Ukrainian summaries) **2005f:78004**
Scheerschmidt, Kurt Parameter retrieval in electron microscopy by solving an inverse scattering problem. (English summary) (*see* **2005b:00020**)
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Worthington, Michael H. *see* **Pain, Christopher C. et al., 2005c:78038**
Xia, Xiang-Gen *see* **Liu, Fengshan et al., 2005c:42038**
Yanchuk, S. V. Properties of stationary states of delay equations with large delay and applications to laser dynamics. (English summary) **2005h:34206**
Yin, Hong-Ming On a phase-field model for a melding problem arising in induction heating processes. (English summary) (*see* **2005c:35004**)
Zhdanov, M. S. (*with* Tolstaya, Ekaterina) Minimum support nonlinear parametrization in the solution of a 3D magnetotelluric inverse problem. (English summary) **2005d:86011**

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Ablowitz, Mark J. (*with* Schober, C. M.) Chaotic dynamics of modulational instability in optical fibers. (English summary) (*see* **2005m:00011**)
Abramochkin, E. G. (*with* Volostnikov, V. G.) Rotating light fields and singular optics. (Russian. English and Russian summaries) **2005m:78016**
Aceves, Alejandro B. (*with* Fibich, Gadi; Ilan, Boaz) Gap-soliton bullets in waveguide gratings. (English summary) **2005c:78032**
Ali, Mohammad R. *see* **Yoshino, Toshihiko et al.**
Ao, Sengmei (*with* Yan, Jia-Ren) A perturbation method for dark solitons based on a complete set of the squared Jost solutions. (English summary) **2005m:78017**
Bang, Ole *see* **Królikowski, Wiesław et al., 2005k:78020**
Banks, H. T. (*with* Pinter, Gabriella A.) High-frequency pulse propagation in nonlinear dielectric materials. (English summary) **2005h:78019**
Bao, Gang[1] (*with* Minut, Aurelia; Zhou, Zhengfang) Maxwell's equations in nonlinear biperiodic structures. (*see* **2005b:00020**)
Baxter, G. W. *see* **Dragomir, N. M. et al., 2005m:78018**
Bayart, Dominique *see* **Castella, François et al., 2005h:78020**
Bekkey, Chokri (*with* Djellouli, Rabia; Youssef, Mouna) A numerical method for solving a class of inverse eigenvalue problems. Application to optical fibre design. (English summary) (*see* **2005b:00020**)
Berry, Rachel H. *see* **Withington, Stafford et al., 2005b:78025**

Bezryadina, Anna *see* **Yang, Jianke et al.**
Borhanifar, A. (*with* Trofimov, V. A.) Comparison of the efficiency of various approaches to the computer modeling of the nonlinear interaction of three femtosecond pulses in an optical fiber. (Russian. Russian summary)
Boucheres, T. (*with* Colin, Thierry; Nkonga, B.; Texier, Benjamin; Bourgeade, Antoine) Study of a mathematical model for stimulated Raman scattering. (English summary) **2005g:78020**
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Brio, Moysey *see* **Webb, Garry M. et al., 2005d:78014** *and* **Sørensen, Mads Peter et al., 2005m:78022**
Burgoyne, Bryan (*with* Godbout, Nicolas; Lacroix, Suzanne) Theoretical analysis of nth-order cascaded continuous-wave Raman fiber lasers. I. Model and resolution. (English summary)
— (*with* Godbout, Nicolas; Lacroix, Suzanne) Theoretical analysis of nth-order cascaded continuous-wave Raman fiber lasers. II. Optimization and design rules. (English summary)
Cartwright, Natalie A. (*with* Oughstun, Kurt E.) Pulse centroid velocity of the Poynting vector. (English summary) **2005a:78026**
Castella, François (*with* Chartier, Philippe; Faou, Erwan; Bayart, Dominique; Leplingard, Florence; Martinelli, Catherine) Raman laser: mathematical and numerical analysis of a model. (English summary) **2005h:78020**
Chartier, Philippe *see* **Castella, François et al., 2005h:78020**
Chen, Min[6] (*with* Kaup, D. J.; Malomed, Boris A.) Three-wave solitons and continuous waves in media with competing quadratic and cubic nonlinearities. (English summary) **2005h:78021**
Chen, Zhigang[3] *see* **Yang, Jianke et al.**
Cho, Yeol Je *see* **Dragomir, N. M. et al., 2005m:78018**
Čiegis, Raimondas (*with* Čiegis, Remigijus) Numerical stability analysis of solutions of PDEs. (English summary) **2005i:78011**
Čiegis, Remigijus *see* **Čiegis, Raimondas, 2005i:78011**
Colin, Thierry *see* **Boucheres, T. et al., 2005g:78020**
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Djellouli, Rabia *see* **Bekkey, Chokri et al., (2005b:00020)**
Doumic, Marie *see* **Sentis, Rémi et al., (2005b:00020)**
Dragomir, N. M. (*with* Dragomir, Sever Silvestru; Cho, Yeol Je; Baxter, G. W.) Approximations for the fiber refractive index profile. (English summary) **2005m:78018**
Dragomir, Sever Silvestru *see* **Dragomir, N. M. et al., 2005m:78018**
Dumas, Éric An example of catastrophic self-focusing in nonlinear optics. (English summary) **2005e:78023**
Egorov, Alexey A. *see* **Kartashov, Yaroslav V. et al., 2005h:78022**
Elkin, N. Laser beam propagation through the multi-core fiber. (English summary) (*see* **2005c:65004**)
Falkovich, G. (*with* Kolokolov, I.; Lebedev, Vladimir V.; Mezentsev, Vladimir K.; Turitsyn, Sergei K.) Non-Gaussian error probability in optical soliton transmission. (English summary) **2005e:78024**
Faou, Erwan *see* **Castella, François et al., 2005h:78020**
Farmawy, F. K. Non-linear susceptibility for a coupled system. (English summary)
Fedoruk, M. P. *see* **Shtyrina, O. V. et al., (2005i:65006)**
Fibich, Gadi *see* **Aceves, Alejandro B. et al., 2005c:78032**
Fischer, David G. (*with* Visser, Taco D.) Spatial correlation properties of focused partially coherent light. (English summary) **2005j:78037**
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Ge, Hao *see* **Zhang, Yanpeng et al.**
Georgescu, Şerban Mathematical modeling of 3-μm erbium lasers. (*see* **2005c:00018**)
Godbout, Nicolas *see* **Burgoyne, Bryan et al.**
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Hebermehl, Georg (*with* Hübner, Friedrich-Karl; Schlundt, Rainer; Tischler, Thorsten; Zscheile, Horst; Heinrich, Wolfgang) Simulation of microwave and semiconductor laser structures including absorbing boundary conditions. (English summary) (*see* **2005a:65001**)
Heinrich, Wolfgang *see* **Hebermehl, Georg et al., (2005a:65001)**
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Ilan, Boaz *see* **Aceves, Alejandro B. et al., 2005c:78032**
Kartashov, Yaroslav V. (*with* Vysloukh, V. A.; Egorov, Alexey A.; Zelenina, Anna S.) Stable periodic waves supported by competing cubic-quintic nonlinearity. (English summary) **2005h:78022**
Kaup, D. J. *see* **Chen, Min[6] et al., 2005h:78021**
Kolokolov, I. *see* **Falkovich, G. et al., 2005e:78024**
Królikowski, Wiesław (*with* Bang, Ole; Wyller, John) Nonlocal incoherent solitons. (English summary) **2005k:78020**
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Lebedev, Vladimir V. *see* **Falkovich, G. et al., 2005e:78024**
Leblond, Hervé (*with* Malomed, Boris A.; Mihalache, Dumitru) Quasistable two-dimensional solitons with hidden and explicit vorticity in a medium with competing nonlinearities. (English summary) **2005m:78019**
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Mezentsev, Vladimir K. *see* **Falkovich, G. et al., 2005e:78024**
Mihalache, Dumitru (*with* Mazilu, Dumitru; Malomed, Boris A.; Lederer, F.) Stable vortex solitons supported by competing quadratic and cubic nonlinearities. (English summary) **2005f:78006**
— *see also* **Leblond, Hervé et al., 2005m:78019**
Mikhaĭlov, A. V. (*with* Novokshenov, V. Yu.) A period mapping for nonlinear pulses in dispersion-managed optical fibers. (Russian. Russian summary) **2005a:78027**
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Moloney, Jerome V. *see* **Webb, Garry M. et al., 2005d:78014** *and* **Sørensen, Mads Peter et al., 2005m:78022**
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Okunevich, A. I. Velocity distribution of laser-induced atomic polarization moments in antirelaxation-coated cell and magneto-optic rotation. (English summary)
Oughstun, Kurt E. *see* **Cartwright, Natalie A., 2005a:78026**
Pinter, Gabriella A. *see* **Banks, H. T., 2005h:78019**
Porsezian, K. (*with* Seenuvasakumaran, P.) Propagation of optical soliton in a multicomponent nonlinear medium. (English summary)
Radžiūnas, M. *see* **Sieber, Jan et al., 2005a:78028**
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Risbud, A. A. Stimulated electromagnetic shock radiation characteristics using classical second-order calculations. (English summary) **2005k:78021**
Ruan, Hang Yu (*with* Li, Hui-Jun) Optical solitary waves in the generalized higher order nonlinear Schrödinger equation. (English summary) **2005m:78020**
Santamato, E. Photon orbital angular momentum: problems and perspectives. (English summary) **2005h:78023**
Sarker, Bikash C. *see* **Yoshino, Toshihiko et al.**
Schäfer, Tobias (*with* Wayne, C. Eugene) Propagation of ultra-short optical pulses in cubic nonlinear media. (English summary)
Schlundt, Rainer *see* **Hebermehl, Georg et al., (2005a:65001)**
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Seenuvasakumaran, P. *see* **Porsezian, K.**
Sentis, Rémi (*with* Doumic, Marie; Golse, François) Paraxial approximation in a tilted frame for laser wave propagation. (English summary) (*see* **2005b:00020**)
Shin, Hyun-Jong The dark soliton on a cnoidal wave background. (English summary) **2005m:78021**
Shtyrina, O. V. (*with* Medvedev, Sergei B.; Fedoruk, M. P.) Dispersion-managed soliton for path-averaged model of optical fiber communication line. (English summary) (*see* **2005i:65006**)
Sieber, Jan (*with* Radžiūnas, M.; Schneider, Klaus R.) Dynamics of multisection semiconductor lasers. (English and Italian summaries) **2005a:78028**
Song, Jianping *see* **Zhang, Yanpeng et al.**
Sørensen, Mads Peter (*with* Webb, Garry M.; Brio, Moysey; Moloney, Jerome V.) Kink shape solutions of the Maxwell-Lorentz system. (English summary) **2005m:78022**
— *see also* **Webb, Garry M. et al., 2005d:78014**
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Tian, Huiping *see* **Tian, Jinping et al., 2005j:78038**
Tian, Jinping (*with* Tian, Huiping; Li, Zhonghao; Zhou, Guosheng) Combined solitary-wave solution for coupled higher-order nonlinear Schrödinger equations. (English summary) **2005j:78038**
Tischler, Thorsten *see* **Hebermehl, Georg et al., (2005a:65001)**
Tomita, Makoto Coherence coupling effect in a space- and time-resolved, nonlinear-correlation measurement in a multiple-scattering medium. (English summary)
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Vereshchagin, V. L. Periodic optical pulses in nonlinear optical fibers. (Russian. Russian summary) **2005m:78023**
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Webb, Garry M. (*with* Sørensen, Mads Peter; Brio, Moysey; Zakharian, Aramis R.; Moloney, Jerome V.) Variational principles, Lie point symmetries, and similarity solutions of the vector Maxwell equations in non-linear optics. (English summary) **2005d:78014**
— *see also* **Sørensen, Mads Peter et al., 2005m:78022**
Wingen, Andreas (*with* Spatschek, Karl H.; Medvedev, Sergei B.) Averaged dynamics of optical pulses described by a nonlinear Schrödinger equation with periodic coefficients (English summary) **2005a:78029**
Withington, Stafford (*with* Hobson, Michael P.; Berry, Rachel H.) Representing the behavior of partially coherent optical systems by using overcomplete basis sets. (English summary) **2005b:78025**
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Yakushev, Dennis A. *see* **Derevyanko, Stanislav A. et al.**
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Yang, Jianke (*with* Makasyuk, Igor; Bezryadina, Anna; Chen, Zhigang[2]) Dipole and quadrupole solitons in optically induced two-dimensional photonic lattices: theory and experiment. (English summary)
Yoshino, Toshihiko (*with* Ali, Mohammad R.; Sarker, Bikash C.) Performance analysis of low-coherence interferometry, taking into consideration optical beat noise. (English summary)
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Zelenina, Anna S. *see* **Kartashov, Yaroslav V. et al., 2005h:78022**
Zhang, Yanpeng (*with* Gan, Chenli; Song, Jianping; Yu, Xiaojun; Ma, Ruiqiong; Ge, Hao; Li, Chuangshe; Lu, Keqing) Attosecond sum-frequency Raman-enhanced polarization beating by use of twin phase-sensitive color locking noisy light beams. (English summary)
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Agyemang, Daniel T. (*with* Biswas, Anjan) The cnoidal waves of the perturbed nonlinear Schrödinger's equation. (English summary) **2005m:35272**
Ali Mehmeti, F. (*with* Régnier, Virginie) Delayed reflection of the energy flow at a potential step for dispersive wave packets. (English summary) **2005h:35289**
Berry, M. V. Physics of non-Hermitian degeneracies. (English summary) **2005h:81142**
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— (*with* Konar, Swapan) The nonlinear Schrödinger's equation and soliton-soliton interaction. (English summary) **2005m:35250**
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Chen, Han Lin[2] (*with* Guo, Bo Ling) The invariant manifolds for a perturbed quintic-cubic Schrödinger equation. (English summary) **2005f:35279**
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Chushkin, V. A. On the solvability of the problem of optimizing a Fourier filter for a class of models of nonlinear optical systems with feedback. (Russian. Russian summary) **2005j:93075**
Colin, M. (*with* Colin, Thierry) On a quasilinear Zakharov system describing laser-plasma interactions. (English summary) **2005h:35317**
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Guo, Bo Ling *see* **Chen, Han Lin[2], 2005f:35279**
Hao, Ruiyu *see* **Yang, Rongcao et al., 2005k:35387**
Horvat, Martin (*with* Prosen, Tomaž) Uni-directional transport properties of a serpent billiard. (English summary) **2005b:82051**
Hua, Wei[1] *see* **Liu, Xueshen[2] et al.**
Huang, De Bin Bi-Hamiltonian structure and homoclinic orbits of the Maxwell-Bloch equations with RWA. (English summary) **2005a:37125**
Kalisch, Henrik (*with* Pelinovsky, Dmitry E.) Dispersion-managed solitons in the limit of large energy. (English summary) **2005i:35246**
Kalosakas, G. *see* **Bishop, Alan R. et al., 2005d:81401**
Kang, H. S. Adaptive differential game formulation—submicron optical laser. (English summary)
Karavolos, Angelo *see* **Caulfield, H. John et al., 2005a:68173**
Kevrekidis, Panayotis G. *see* **Papacharalampous, I. E. et al., 2005a:35254** *and* **Bishop, Alan R. et al., 2005d:81401**
Koch, Othmar Numerical solution of the time-dependent Schrödinger equation in ultrafast laser dynamics. (English summary)
Kolesov, A. Yu. (*with* Rozov, Nikolaĭ Khristovich) Optical buffering and mechanisms for its occurrence. (Russian. Russian summary) **2005k:35199**
Konar, Swapan *see* **Biswas, Anjan, 2005m:35250**
Kong, De Xing A nonlinear geometric equation related to electrodynamics. (English summary) **2005i:78003**
Kovachev, Lubomir M. Optical leptons. (English summary) **2005d:35250**
Kovačič, Gregor *see* **Byrne, Julie A. et al., 2005j:81215**
Krauskopf, Bernd *see* **Green, Kirk et al., 2005d:37172**
Kunze, Markus On a variational problem with lack of compactness related to the Strichartz inequality. (English summary) **2005b:49003**
Kupriyanova, S. N. (*with* Smirnov, Yu. G.) Propagation of electro-magnetic waves in cylindrical dielectric waveguides filled with a nonlinear medium. (Russian. Russian summary) **2005m:78014**
Kurata, Kazuhiro (*with* Watanabe, Tatsuya; Shibata, Masataka) A symmetry-breaking phenomenon and asymptotic profiles of least-energy solutions to a nonlinear Schrödinger equation. (English summary) **2005k:34211**
Kurth, Michael On the existence of infinitely many modes of a nonlocal nonlinear Schrödinger equation related to dispersion-managed solitons. (English summary) **2005h:34105**
Larger, Laurent *see* **Erneux, Thomas et al., 2005e:34224**
Lashkin, Volodymyr M. Soliton of modified nonlinear Schrödinger equation with random perturbations. (English summary) **2005f:35284**
Lee, Min Won *see* **Erneux, Thomas et al., 2005e:34224**
Li, Hui-Jun *see* **Ruan, Hang Yu et al., 2005d:35240**
Li, Lu[2] *see* **Yang, Rongcao et al., 2005k:35387**
Li, Zhonghao *see* **Yang, Rongcao et al., 2005k:35387**
Liu, Chun Ping Exact solutions for the higher-order nonlinear Schördinger equation in nonlinear optical fibres. (English summary) [Exact solutions for the higher-order nonlinear Schödinger equation in nonlinear optical fibres] **2005f:35285**
Liu, Xueshen[2] (*with* Qi, Yueying; Hua, Wei[1]; Ding, Peizhu) Behaviors and high-order harmonic generation for short-range model potential in the intense laser field by using the symplectic algorithm. (English summary)
Ludman, Jacques E. *see* **Caulfield, H. John et al., 2005a:68173**
Makarov, Nikolai S. (*with* Bespalov, Victor G.) Effective method of anti-Stokes generation by quasi-phase-matched stimulated Raman scattering. (English summary)
Malomed, Boris A. *see* **Papacharalampous, I. E. et al., 2005a:35254** *and* **Merhasin, Ilya M. et al., 2005k:35380**
Merhasin, Ilya M. (*with* Gisin, Boris V.; Driben, Rodislav; Malomed, Boris A.) Finite-band solitons in the Kronig-Penney model with the cubic-quintic nonlinearity. (English summary) **2005k:35380**
Mikhaĭlov, A. V. (*with* Novokshenov, V. Yu.) Analytic description of dispersion-managed solitons by the Riemann problem method. (Russian. Russian summary) **2005f:37157**
Minzoni, A. A. (*with* Smyth, Noel F.; Worthy, Annette L.) Evolution of two-dimensional standing and travelling breather solutions for the sine-Gordon equation. (English summary) **2005b:35242**
Novokshenov, V. Yu. *see* **Mikhaĭlov, A. V., 2005f:37157**
Papacharalampous, I. E. (*with* Kevrekidis, Panayotis G.; Malomed, Boris A.; Frantzeskakis, Dimitri J.) Soliton collisions in the discrete nonlinear Schrödinger equation. (English summary) **2005a:35254**
Pasch, K. A. *see* **Corcoran, C. J., 2005d:42006**
Pelinovsky, Dmitry E. (*with* Yang, Jianke) Parametric resonance and radiative decay of dispersion-managed solitons. (English summary) **2005c:35267**
— *see also* **Kalisch, Henrik, 2005i:35246**
Prosen, Tomaž *see* **Horvat, Martin, 2005b:82051**
Puta, Mircea (*with* Caşu, Ioan; Butur, Marius) Some remarks on the nonlinear optical polarization dynamics. **2005i:34049**
Qi, Yueying *see* **Liu, Xueshen[2] et al.**
Rasmussen, Kim Ø. *see* **Bishop, Alan R. et al., 2005d:81401**
Régnier, Virginie *see* **Ali Mehmeti, F., 2005h:35289**
Rozov, Nikolaĭ Khristovich *see* **Kolesov, A. Yu., 2005k:35199**
Ruan, Hang Yu (*with* Li, Hui-Jun; Chen, Yi Xin[1]) Exact solutions of space-time dependent non-linear Schrödinger equations. (English summary) **2005d:35240**
Saut, Olivier Une méthode spectrale pour les équations de Maxwell-Bloch bidimensionnelles dans les cristaux non-linéaires. (English and French summaries) [A spectral method for the bidimensional Maxwell-Bloch equations in nonlinear crystals]
— *see also* **Besse, Christophe et al., 2005d:81400**
Sentis, Rémi Mathematical models for laser-plasma interaction. (English summary) **2005m:35294**
Shibata, Masataka *see* **Kurata, Kazuhiro et al., 2005k:34211**
Smirnov, Yu. G. *see* **Kupriyanova, S. N., 2005m:78014**
Smyth, Noel F. *see* **Minzoni, A. A. et al., 2005b:35242**
Stratis, Ioannis G. (*with* Yannacopoulos, Athanasios N.) Electromagnetic fields in linear and nonlinear chiral media: a time-domain analysis. **2005c:78008**
Vartanian, Arthur H. Long-time asymptotics of solutions to the Cauchy problem for the defocusing non-linear Schrödinger equation with finite-density initial data. I. Solitonless sector. (English summary) **2005a:37141**
Volkwein, Stefan Nonlinear conjugate gradient methods for the optimal control of laser surface hardening. (English summary) **2005b:49066**
Wadati, Miki *see* **Bullough, Robin K., 2005d:81402**
Watanabe, Tatsuya *see* **Kurata, Kazuhiro et al., 2005k:34211**
Worthy, Annette L. *see* **Minzoni, A. A. et al., 2005b:35242**
Xie, Kang *see* **Boardman, Allan D. et al.**
Xie, Ming *see* **Boardman, Allan D. et al.**
Yang, Jianke *see* **Pelinovsky, Dmitry E., 2005c:35267**
Yang, Rongcao (*with* Li, Lu[2]; Hao, Ruiyu; Li, Zhonghao; Zhou, Guosheng) Combined solitary wave solutions for the inhomogeneous higher-order nonlinear Schrödinger equation. (English summary) **2005k:35387**
Yannacopoulos, Athanasios N. *see* **Stratis, Ioannis G., 2005c:78008**

Yoshimura, Kazuyuki Secure communications using cascaded chaotic optical rings. (English summary) **2005b:94051**
Zhou, Guosheng *see* **Yang, Rongcao et al., 2005k:35387**

78A70 Biological applications [see also 91D30, 92C30]

Bison, Georg (*with* Wynands, Robert; Weis, Antoine) Optimization and performance of an optical cardiomagnetometer. (English summary)
Brezinski, Mark E. *see* **Liu, Bin[9] et al.**
Bulyshev, A. E. (*with* Souvorov, A. E.; Semenov, S. Yu.; Posukh, V. G.; Sizov, Y. E.) Three-dimensional vector microwave tomography: theory and computational experiments. (English summary) **2005c:78034**
Chan, Tony F. C. *see* **Chung, Eric T. et al., 2005m:78024**
Chung, Eric T. (*with* Chan, Tony F. C.; Tai, Xue-Cheng) Electrical impedance tomography using level set representation and total variational regularization. (English summary) **2005m:78024**
Cumberbatch, Ellis *see* **Fang, Weifu, 2005m:78025**
Defrise, Michel (*with* Noo, Frédéric; Kudo, Hiroyuki) Improved two-dimensional rebinning of helical cone-beam computerized tomography data using John's equation. (English summary) **2005a:78030**
Epstein, Charles L. Magnetic resonance imaging in inhomogeneous fields. (English summary) **2005g:78021**
Fang, Weifu (*with* Cumberbatch, Ellis) Matrix properties of data from electrical capacitance tomography. (English summary) **2005m:78025**
Fedulova, I. A. *see* **Hoffmann, Clemens et al.**
Harman, Michelle *see* **Liu, Bin[9] et al.**
Hoffmann, Clemens (*with* Popov, A. M.; Pevtsov, S. E.; Fedulova, I. A.) Numerical solution of direct mathematical problems in electroencephalography. (Russian. Russian summary)
Kang, Chang Ik *see* **Kim, Kyung Youn et al.**
Kang, Sook In *see* **Kim, Kyung Youn et al.**
Kim, Kyung Youn (*with* Kang, Sook In; Kim, Sin; Kim, Min Chan; Kang, Chang Ik; Lee, Junghoon) Dynamic electrical impedance imaging of binary-mixture fields with external and internal electrodes. (English summary)
Kim, Min Chan *see* **Kim, Kyung Youn et al.**
Kim, Sin *see* **Kim, Kyung Youn et al.**
King, Ronold W. P. A review of analytically determined electric fields and curents induced in the human body when exposed to 50–60-Hz electromagnetic fields. (English summary)
Kudo, Hiroyuki *see* **Defrise, Michel et al., 2005a:78030**
Lee, Junghoon *see* **Kim, Kyung Youn et al.**
Liu, Bin[9] (*with* Harman, Michelle; Brezinski, Mark E.) Variables affecting polarization-sensitive optical coherence tomography imaging examined through the modeling of birefringent phantoms. (English summary)
Nicoreştianu, Felicia Eugenia A numerical method for super-resolution in confocal scanning microscopy. (English and Romanian summaries)
Noo, Frédéric *see* **Defrise, Michel et al., 2005a:78030**
Pevtsov, S. E. *see* **Hoffmann, Clemens et al.**
Popov, A. M. *see* **Hoffmann, Clemens et al.**
Posukh, V. G. *see* **Bulyshev, A. E. et al., 2005c:78034**
Rubio, D. *see* **Troparevsky, M. I., 2005m:78026**
Semenov, S. Yu. *see* **Bulyshev, A. E. et al., 2005c:78034**
Sizov, Y. E. *see* **Bulyshev, A. E. et al., 2005c:78034**
Souvorov, A. E. *see* **Bulyshev, A. E. et al., 2005c:78034**
Tai, Xue-Cheng *see* **Chung, Eric T. et al., 2005m:78024**
Troparevsky, M. I. (*with* Rubio, D.) On the weak solutions of the forward problem in EEG. **2005m:78026**
Wax, Adam Low-coherence light-scattering calculations for polydisperse size distributions. (English summary)
Weis, Antoine *see* **Bison, Georg et al.**
Wynands, Robert *see* **Bison, Georg et al.**

Items with secondary classifications in 78A70

Amar, Micol (*with* Andreucci, Daniele; Gianni, Roberto; Bisegna, Paolo) Evolution and memory effects in the homogenization limit for electrical conduction in biological tissues. (English summary) **2005f:35018**
— (*with* Andreucci, Daniele; Bisegna, Paolo; Gianni, Roberto) Existence and uniqueness for an elliptic problem with evolution arising in electrodynamics. (English summary)
Anastasio, Mark A. *see* **Gbur, Greg et al.**
Andreucci, Daniele *see* **Amar, Micol et al., 2005f:35018**
Balac, S. (*with* Benoit-Cattin, H.; Lamotte, T.; Odet, C.) Analytic solution to boundary integral computation of susceptibility induced magnetic field inhomogeneities. (English summary) **2005a:78006**
Bammer, Roland *see* **Keeling, Stephen L.**
Barnett, Alex H. A fast numerical method for time-resolved photon diffusion in general stratified turbid media. (English summary)
Belik, Mary E. (*with* Usyk, Taras P.; McCulloch, Andrew D.) Computational methods for cardiac electrophysiology. (English summary) (*see* **2005e:92001**)
Benoit-Cattin, H. *see* **Balac, S. et al., 2005a:78006**
van den Berg, Tom J. T. P. *see* **Sicam, Victor Arni D. P. et al.**
Bisegna, Paolo *see* **Amar, Micol et al., 2005f:35018**
Chrissoulidis, D. P. *see* **Ioannidou, M. P. et al., 2005c:78022**
Coppens, Joris *see* **Sicam, Victor Arni D. P. et al.**
Erëmin, Yu. A. (*with* Sveshnikov, Alekseĭ Georgievich) Analysis of the scattering properties of erythrocytes by the discrete source method. (Russian. Russian summary)
Filipowicz, S. F. *see* **Giza, Z. et al., (2005d:35008)**
Fokas, A. S. (*with* Kurylev, Yaroslav V.; Marinakis, V.) The unique determination of neuronal currents in the brain via magnetoencephalography. (English summary) **2005c:92006**
Gamio, Carlos *see* **Hinestroza, Doris, 2005j:65061**
Gardner, Richard J. (*with* Longinetti, Marco; Sgheri, Luca) Reconstruction of orientations of a moving protein domain from paramagnetic data. (English summary)
Gbur, Greg (*with* Anastasio, Mark A.; Huang, Yin; Shi, Daxin) Spherical-wave intensity diffraction tomography. (English summary)
Gianni, Roberto *see* **Amar, Micol et al., 2005f:35018**
Girtis, Konstantinos G. (*with* Tsihrintzis, George A.) Diffraction tomographic imaging algorithms. III. Angularly limited data. (English summary) **2005e:92021**
Giza, Z. (*with* Filipowicz, S. F.; Sikora, J.) Simulated annealing method in electrical impedance tomography. (English summary) (*see* **2005d:35008**)
Grasedyck, Lars *see* **Wolters, C. H. et al.**
Hackbusch, Wolfgang *see* **Wolters, C. H. et al.**
Hammer, Hanno (*with* Lionheart, William R. B.) Reconstruction of spatially inhomogeneous dielectric tensors through optical tomography. (English summary) **2005m:44003**
Hédou-Rouillier, Véronique A finite difference method to solve the forward problem in electroencephalography (EEG). (English summary) **2005a:65113**
van der Heijde, Rob G. L. *see* **Sicam, Victor Arni D. P. et al.**
Herwanger, Jörg V. *see* **Pain, Christopher C. et al., 2005c:78038**
Hinestroza, Doris (*with* Gamio, Carlos) Regularization techniques for nonlinear problems applied to electrical capacitance tomographic. (English summary) **2005j:65061**
Huang, Yin *see* **Gbur, Greg et al.**
Ikehata, Masaru (*with* Siltanen, Samuli) Electrical impedance tomography and Mittag-Leffler's function. (English summary) **2005f:35318**
Ioannidou, M. P. (*with* Kapsalas, K. D.; Chrissoulidis, D. P.) Electromagnetic-wave scattering by an eccentrically stratified, dielectric cylinder with multiple, eccentrically stratified, cylindrical, dielectric inclusions. (English summary) **2005c:78022**
Kaipio, Jari P. *see* **Somersalo, Erkki et al., 2005a:35282**
Kapsalas, K. D. *see* **Ioannidou, M. P. et al., 2005c:78022**
Keeling, Stephen L. (*with* Bammer, Roland) A variational approach to magnetic resonance coil sensitivity estimation. (English summary)
Khan, Taufiquar Rahman (*with* Smirnova, Alexandra B.) 1D inverse problem in diffusion based optical tomography using iteratively regularized Gauss-Newton algorithm. (English summary) **2005h:35363**
Kim, B. S. *see* **Kim, Kyung Youn et al., 2005b:35295**
Kim, Kyung Youn (*with* Kim, B. S.; Kim, Min Chan; Kim, Sin) Dynamic inverse obstacle problems with electrical impedance tomography. (English summary) **2005b:35295**
Kim, Min Chan *see* **Kim, Kyung Youn et al., 2005b:35295**
Kim, Sin *see* **Kim, Kyung Youn et al., 2005b:35295**
Kurylev, Yaroslav V. *see* **Fokas, A. S. et al., 2005c:92006**
Lamotte, T. *see* **Balac, S. et al., 2005a:78006**
Lee, June-Yub A reconstruction formula and uniqueness of conductivity in MREIT using two internal current distributions. (English summary) **2005c:35295**
Lionheart, William R. B. *see* **Hammer, Hanno, 2005m:44003**
Longinetti, Marco *see* **Gardner, Richard J. et al.**
Marinakis, V. *see* **Fokas, A. S. et al., 2005c:92006**
McCulloch, Andrew D. *see* **Belik, Mary E. et al., (2005e:92001)**
Odet, C. *see* **Balac, S. et al., 2005a:78006**
de Oliveira, Cassiano R. E. *see* **Pain, Christopher C. et al., 2005c:78038**
Pain, Christopher C. (*with* Herwanger, Jörg V.; Saunders, Jonathan H.; Worthington, Michael H.; de Oliveira, Cassiano R. E.) Anisotropic resistivity inversion. (English summary) **2005c:78038**
Saunders, Jonathan H. *see* **Pain, Christopher C. et al., 2005c:78038**
Sgheri, Luca *see* **Gardner, Richard J. et al.**
Shi, Daxin *see* **Gbur, Greg et al.**
Sicam, Victor Arni D. P. (*with* Coppens, Joris; van den Berg, Tom J. T. P.; van der Heijde, Rob G. L.) Corneal surface reconstruction algorithm that uses Zernike polynomial representation. (English summary)
Sikora, J. *see* **Giza, Z. et al., (2005d:35008)**
Siltanen, Samuli *see* **Ikehata, Masaru, 2005f:35318**
Smirnova, Alexandra B. *see* **Khan, Taufiquar Rahman, 2005h:35363**
Somersalo, Erkki (*with* Voutilainen, A.; Kaipio, Jari P.) Non-stationary magnetoencephalography by Bayesian filtering of dipole models. (English summary) **2005a:35282**
Sveshnikov, Alekseĭ Georgievich *see* **Erëmin, Yu. A.**
Tamasan, Alexandru Optical tomography in weakly anisotropic scattering media. (English summary) **2005a:35284**
Tsihrintzis, George A. *see* **Girtis, Konstantinos G., 2005e:92021**
Usyk, Taras P. *see* **Belik, Mary E. et al., (2005e:92001)**
Voutilainen, A. *see* **Somersalo, Erkki et al., 2005a:35282**
Wolters, C. H. (*with* Grasedyck, Lars; Hackbusch, Wolfgang) Efficient computation of lead field bases and influence matrix for the FEM-based EEG and MEG inverse problem. (English summary)
Worthington, Michael H. *see* **Pain, Christopher C. et al., 2005c:78038**

78A99 Miscellaneous topics

Abo Seliem, Adel A. S. The transient electromagnetic field of a dielectric layer. (English summary) **2005f:78007**
Arnautovski-Toseva, Vesna (*with* Greev, Leonid) Electromagnetic analysis of horizontal wire in two-layered soil. (English summary)
Belen'kii, Mikhail S. *see* **Holmes, Richard Brooks, 2005c:78035**
Chetverikov, Alexander P. *see* **Velarde, Manuel G. et al., 2005k:78022**
Ebeling, Werner *see* **Velarde, Manuel G. et al., 2005k:78022**
Feldmann, Uwe[2] *see* **Günther, Michael M. et al.**
Galeriu, C. *see* **Willatzen, Morten et al., (2005g:65009)**
Greev, Leonid *see* **Arnautovski-Toseva, Vesna**
Günther, Michael M. (*with* Feldmann, Uwe[2]; ter Maten, E. Jan W.) Modelling and discretization of circuit problems.
Hameyer, Kay *see* **Henrotte, François**
Henrotte, François (*with* Hameyer, Kay) Computation of electromagnetic force densities: Maxwell stress tensor vs. virtual work principle. (English summary)

Holmes, Richard Brooks (*with* Belen'kii, Mikhail S.) Investigation of the Cauchy-Riemann equations for one-dimensional image recovery in intensity interferometry. (English summary) **2005c:78035**
Kolenović, Ervin Correlation between intensity and phase in monochromatic light. (English summary)
Lew Yan Voon, L. C. *see* **Willatzen, Morten et al.**, (**2005g:65009**)
Martins Ferreira, E. H. (*with* Nemes, M. C.; Sampaio, M. D.; Weidenmüller, H. A.) Persistent currents in n-fold twisted Moebius strips. (English summary) [Persistent currents in n-fold twisted Möbius strips] **2005h:78024**
ter Maten, E. Jan W. *see* **Günther, Michael M. et al.**
Melnik, Roderick V. N. *see* **Willatzen, Morten et al.**, (**2005g:65009**)
Nemes, M. C. *see* **Martins Ferreira, E. H. et al., 2005h:78024**
Sampaio, M. D. *see* **Martins Ferreira, E. H. et al., 2005h:78024**
Velarde, Manuel G. (*with* Ebeling, Werner; Chetverikov, Alexander P.) On the possibility of electric conduction mediated by dissipative solitons. (English summary) **2005k:78022**
Weidenmüller, H. A. *see* **Martins Ferreira, E. H. et al., 2005h:78024**
Willatzen, Morten (*with* Melnik, Roderick V. N.; Galeriu, C.; Lew Yan Voon, L. C.) Finite element analysis of nanowire superlattice structures. (English summary) (*see* **2005g:65009**)

Items with secondary classifications in 78A99

Bogolyubskiĭ, A. I. (*with* Skorokhodov, S. L.) Padé approximants, symbolic transformations, and a method for computing solitons in a two-field antiferromagnet model. (Russian. Russian summary)
Braides, Andrea (*with* Francfort, Gilles A.) Bounds on the effective behaviour of a square conducting lattice. (English summary) **2005c:35018**
Cairns, Iver H. *see* **Hole, M. J. et al., 2005j:76096**
Camar-Eddine, M. (*with* Milton, Graeme W.) Non-local interactions in the homogenization closure of thermoelectric functionals. (English summary) **2005k:35393**
Christov, Christo I. Dynamics of patterns on elastic hypersurfaces. I. Shear waves in the middle surface. (English summary) (*see* **2005m:00011**)
— Dynamics of patterns on elastic hypersurfaces. II. Wave mechanics of flexural quasiparticles. (English summary) (*see* **2005m:00011**)
Ciulli, S. (*with* Pidcock, M. K.; Sebu, C.) An integral equation method for the inverse conductivity problem. (English summary) **2005a:45010**
Dobson, David C. (*with* Santosa, Fadil) Optimal localization of eigenfunctions in an inhomogeneous medium. (English summary) **2005d:35034**
Francfort, Gilles A. *see* **Braides, Andrea, 2005c:35018**
Guenneau, Sébastien (*with* Movchan, Alexander; Poulton, C. G.; Nicolet, André) Coupling between electromagnetic and mechanical vibrations of thin-walled structures. (English summary) **2005c:74032**
Hole, M. J. (*with* Robinson, Peter A.; Cairns, Iver H.) Statistics of polarization and Stokes parameters of stochastic waves. (English summary) **2005j:76096**
Kružík, Martin (*with* Prohl, Andreas) Macroscopic modeling of magnetic hysteresis. (English summary) **2005h:47123**
Lesnic, Daniel Inversion of discontinuous anisotropic conductivities. (English summary) **2005f:35323**
Milton, Graeme W. *see* **Camar-Eddine, M., 2005k:35393**
Moroz, Irene M. The Malkus-Robbins dynamo with a nonlinear series motor. (English summary) **2005d:37176**
Movchan, Alexander *see* **Guenneau, Sébastien et al., 2005c:74032**
Nicolet, André *see* **Guenneau, Sébastien et al., 2005c:74032**
Pidcock, M. K. *see* **Ciulli, S. et al., 2005a:45010**
Poulton, C. G. *see* **Guenneau, Sébastien et al., 2005c:74032**
Prohl, Andreas *see* **Kružík, Martin, 2005h:47123**
Robinson, Peter A. *see* **Hole, M. J. et al., 2005j:76096**
Santosa, Fadil *see* **Dobson, David C., 2005d:35034**
Sebu, C. *see* **Ciulli, S. et al., 2005a:45010**
Skorokhodov, S. L. *see* **Bogolyubskiĭ, A. I.**

78Mxx Basic methods

Items with secondary classifications in 78Mxx

Demkowicz, Leszek F. *see* **Whiteman, J. R.**
Whiteman, J. R. (*with* Demkowicz, Leszek F.) Preface [Selected papers from the 11th Conference on the Mathematics of Finite Elements and Applications (MAFELAP 2003)].

78M05 Method of moments

Ala, G. *see* **Francomano, E. et al., 2005g:78022**
Arvas, Ercument *see* **Yuceer, Mehmet et al.**
Bogdanov, F. G. (*with* Jobava, R. G.; Frei, S.) Estimating accuracy of MoM solutions on arbitrary triangulated 3-D geometries based on examination of boundary conditions performance and accurate derivation of scattered fields. (English summary) **2005d:78015**
Breinbjerg, Olav *see* **Jørgensen, Erik[2] et al.**
Davis, Clayton P. (*with* Warnick, Karl F.) Error analysis of 2-D MoM for MFIE/EFIE/CFIE based on the circular cylinder. (English summary) **2005j:78040**
Francomano, E. (*with* Tortorici, A.; Toscano, Elena; Ala, G.; Viola, F.) Wavelet-like bases for thin-wire integral equations in electromagnetics. (English summary) **2005g:78022**
Frei, S. *see* **Bogdanov, F. G. et al., 2005d:78015**
Hui, H. T. The calculation of the self impedance in the spectral domain. (English summary) **2005c:78036**
Jacob, Arne F. *see* **Schneider, Guido[2] et al.**
Jobava, R. G. *see* **Bogdanov, F. G. et al., 2005d:78015**
Jørgensen, Erik[2] (*with* Volakis, John L.; Meincke, Peter; Breinbjerg, Olav) Higher order hierarchical Legendre basis functions for electromagnetic modeling. (English summary)
Mautz, Joseph R. *see* **Yuceer, Mehmet et al.**
Meincke, Peter *see* **Jørgensen, Erik[2] et al.**
Mirotznik, Mark S. *see* **Smith, Jerry R., Jr.**
Oberschmidt, Gerald *see* **Schneider, Guido[2] et al.**
Schneider, Guido[2] (*with* Oberschmidt, Gerald; Jacob, Arne F.) Efficient implementation of a wavelet based Galerkin scheme. (English summary)
Smith, Jerry R., Jr. (*with* Mirotznik, Mark S.) Analytical simplification of the 2-D method of moments impedance integral. (English summary)
— (*with* Mirotznik, Mark S.) Moments via integral transform method for 2-D dielectric materials. (English summary)
Taboada, Jose M. Evaluation of Galerkin integrals involving triangular-type wire-to-surface junctions in the method of moments. (English summary)
Tortorici, A. *see* **Francomano, E. et al., 2005g:78022**
Toscano, Elena *see* **Francomano, E. et al., 2005g:78022**
Viola, F. *see* **Francomano, E. et al., 2005g:78022**
Volakis, John L. *see* **Jørgensen, Erik[2] et al.**
Warnick, Karl F. *see* **Davis, Clayton P., 2005j:78040**
Yuceer, Mehmet (*with* Mautz, Joseph R.; Arvas, Ercument) Method of moments solution for the radar cross section of a chiral body of revolution. (English summary)

Items with secondary classifications in 78M05

Belardi, Aldo Artur (*with* Cardoso, José Roberto; França Sartori, Carlos Antonio) Application of Haar's wavelets in the method of moments to solve electrostatic problems. (English summary) **2005c:78009**
Boon, James K. Electromagnetic volume scattering in the half-space: a moment-method analysis without Sommerfeld integrals or their approximations. (English summary) **2005b:78011**
Cardoso, José Roberto *see* **Belardi, Aldo Artur et al., 2005c:78009**
Cochran, Douglas *see* **Pan, Guangwen W. et al.**
Craeye, Christophe (*with* Tijhuis, A. G.; Schaubert, D. H.) An efficient MoM formulation for finite-by-infinite arrays of two-dimensional antennas arranged in a three-dimensional structure. (English summary) **2005a:78022**
— (*with* Parvais, Bertrand; Dardenne, Xavier) MoM simulation of signal-to-noise patterns in infinite and finite receiving antenna arrays. (English summary)
Dardenne, Xavier *see* **Craeye, Christophe et al.**
Djordjević, Miroslav (*with* Notaroš, Branislav M.) Double higher order method of moments for surface integral equation modeling of metallic and dielectric antennas and scatterers. (English summary)
França Sartori, Carlos Antonio *see* **Belardi, Aldo Artur et al., 2005c:78009**
Gómez Martín, Rafael *see* **Monorchio, Agostino et al., 2005h:78016**
Ling, Hao *see* **Trintinalia, Luiz Cezar**
Lötstedt, Per (*with* Nilsson, Martin[2]) A minimal residual interpolation method for linear equations with multiple right-hand sides. (English summary) **2005g:65062**
Manara, Giuliano *see* **Monorchio, Agostino et al., 2005h:78016**
Mittra, Raj *see* **Monorchio, Agostino et al., 2005h:78016**
Mohan, Anuraag (*with* Weile, Daniel S.) A hybrid method of moments-marching on in time method for the solution of electromagnetic scattering problems. (English summary)
Monorchio, Agostino (*with* Rubio Bretones, Amelia; Mittra, Raj; Manara, Giuliano; Gómez Martín, Rafael) A hybrid time-domain technique that combines the finite element, finite difference and method of moment techniques to solve complex electromagnetic problems. (English summary) **2005h:78016**
Nilsson, Martin[2] *see* **Lötstedt, Per, 2005g:65062**
Notaroš, Branislav M. *see* **Djordjević, Miroslav**
Pan, Guangwen W. (*with* Wang, Ke[5]; Cochran, Douglas) Coifman wavelets in 3-D scattering from very rough random surfaces. (English summary)
Parvais, Bertrand *see* **Craeye, Christophe et al.**
Rubio Bretones, Amelia *see* **Monorchio, Agostino et al., 2005h:78016**
Schaubert, D. H. *see* **Craeye, Christophe et al., 2005a:78022**
Tijhuis, A. G. *see* **Craeye, Christophe et al., 2005a:78022**
Trintinalia, Luiz Cezar (*with* Ling, Hao) Integral equation modeling of multilayered doubly-periodic lossy structures using periodic boundary condition and a connection scheme. (English summary)
Wang, Ke[5] *see* **Pan, Guangwen W. et al.**
Weile, Daniel S. *see* **Mohan, Anuraag**

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Adams, Robert J. (*with* Champagne, Nathan J., II) A numerical implementation of a modified form of the electric field integral equation. (English summary)
Ainsworth, Mark Dispersive properties of high-order Nédélec/edge element approximation of the time-harmonic Maxwell equations. (English summary)
Archapitak, J. (*with* Wiwatanapataphee, Benchawan; Wu, Yong Hong[1]; Tang, I. M.) A finite element scheme for the determination of electromagnetic force in continuous steel casting. (English summary)
Benabou, Abdelkader (*with* Clénet, Stéphane; Piriou, Francis) Comparison of the Preisach and Jiles-Atherton models to take hysteresis phenomenon into account in finite element analysis. (English summary)
Bermúdez de Castro, Alfredo (*with* Rodríguez, Rodolfo; Salgado, Pilar) FEM for 3D eddy current problems in bounded domains subject to realistic boundary conditions. An application to metallurgical electrodes. (English summary) **2005m:78027**
— (*with* Rodríguez, Rodolfo; Salgado, Pilar) Numerical solution of eddy current problems in bounded domains using realistic boundary conditions. (English summary) **2005h:78025**
— (*with* Rodríguez, Rodolfo; Salgado, Pilar) Numerical treatment of realistic boundary conditions for the eddy current problem in an electrode via Lagrange multipliers. (English summary) **2005d:78016**
Botha, Matthys M. (*with* Jin, Jian Ming[2]) On the variational formulation of hybrid finite element-boundary integral techniques for electromagnetic analysis. (English summary)
Cai, Wei *see* **Lu, Tiao et al., 2005e:78025**
Canouet, Nicolas (*with* Fézoui, Loula; Piperno, Serge) A new discontinuous Galerkin method for 3D Maxwell's equation on non-conforming grids. (English summary) (*see* **2005b:00020**)

Champagne, Nathan J., II *see* **Adams, Robert J.**
Ciarlet, Patrick, Jr. Augmented formulations for solving Maxwell equations. (English summary) **2005h:78026**
Ciric, Ioan R. (*with* Maghiar, Theodor; Hănţilă, Ioan Florea; Ifrim, Costin) Error bounds for the FEM numerical solution of non-linear field problems. (English summary) **2005c:78037**
Clénet, Stéphane *see* **Benabou, Abdelkader et al.**
Cohen, Gary C. (*with* Ferrieres, Xavier; Monk, P. B.; Pernet, Sébastien) Mass-lumped edge elements for the lossy Maxwell's equations. (English summary) (*see* **2005b:00020**)
De Gersem, Herbert (*with* Gyselinck, Johan; Dular, Patrick; Hameyer, Kay; Weiland, Thomas) Comparison of sliding-surface and moving-band techniques in frequency-domain finite-element models of rotating machines. (English summary)
Demenko, Andrzej (*with* Stachowiak, Dorota) Orthogonal transformation of moving grid model into fixed grid model in the finite element analysis of induction machines. (English summary)
Dossou, Kokou (*with* Packirisamy, Muthukumaran; Fontaine, Marie) Analysis of diffraction gratings by using an edge element method. (English summary)
Dular, Patrick (*with* Gyselinck, Johan; Zeidan, T.; Krähenbühl, L.) Finite element modelling of stacked thin regions with non-zero global currents. (English summary)
— The benefits of nodal and edge elements coupling for discretizing global constraints in dual magnetodynamic formulations. (English summary)
— *see also* **Gyselinck, Johan et al.** *and* **De Gersem, Herbert et al.**
Epov, M. I. *see* **Gelber, A. V. et al.**, (**2005i:65006**)
Ferrieres, Xavier *see* **Cohen, Gary C. et al.**, (**2005b:00020**)
Fézoui, Loula *see* **Canouet, Nicolas et al.**, (**2005b:00020**)
Flemisch, Bernd (*with* Maday, Yvon; Rapetti, Francesca; Wohlmuth, Barbara I.) Coupling scalar and vector potentials on nonmatching grids for eddy currents in a moving conductor. (English summary)
Fontaine, Marie *see* **Dossou, Kokou et al.**
Gelber, A. V. (*with* Shurina, E. P.; Epov, M. I.) An application of finite element method for solving the problem of modeling non-stationary electromagnetic fields of defectoscope. (English summary) (*see* **2005i:65006**)
Geuzaine, Christophe A. *see* **Nicolet, André et al.** *and* **Gyselinck, Johan et al.**
Guenneau, Sébastien *see* **Nicolet, André et al.**
Gyselinck, Johan (*with* Dular, Patrick; Geuzaine, Christophe A.; Legros, W.) 2D harmonic balance FE modelling of electromagnetic devices coupled to nonlinear circuits. (English summary)
— (*with* Vandevelde, L.; Melkebeek, J.; Dular, Patrick) Complementary two-dimensional finite element formulations with inclusion of a vectorized Jiles-Atherton model. (English summary)
— *see also* **Dular, Patrick et al.** *and* **De Gersem, Herbert et al.**
Hameyer, Kay *see* **Lahaye, Domenico et al.** *and* **De Gersem, Herbert et al.**
Hănţilă, Ioan Florea *see* **Ciric, Ioan R. et al.**, **2005c:78037**
Hazard, Christophe (*with* Lohrengel, Stephanie) A singular field method for Maxwell's equations: numerical aspects for 2D magnetostatics. (English summary) **2005a:78031**
Herwanger, Jörg V. *see* **Pain, Christopher C. et al.**, **2005c:78038**
Hesthaven, Jan S. (*with* Warburton, Timothy) High-order nodal discontinuous Galerkin methods for the Maxwell eigenvalue problem. (English summary)
Hiptmair, Ralf (*with* Ledger, P. D.) Computation of resonant modes for axisymmetric Maxwell cavities using hp-version edge finite elements. (English summary) **2005m:78028**
Houston, Paul (*with* Perugia, Ilaria; Schötzau, Dominik) Energy norm a posteriori error estimation for mixed discontinuous Galerkin approximations of the Maxwell operator. (English summary) **2005h:78027**
Ifrim, Costin *see* **Ciric, Ioan R. et al.**, **2005c:78037**
Jamelot, Erell Eléments finis nodaux pour les équations de Maxwell. (English and French summaries) [Nodal finite element methods for Maxwell's equations]
— Corrigendum to the note: "Nodal finite element methods for Maxwell's equations" [C. R. Math. Acad. Sci. Paris **339** (2004), no. 11, 809–814; MR2110386]. (French. English summary)
Jin, Jian Ming[2] *see* **Botha, Matthys M.**
Kang, Tong *see* **Ma, Chang Feng et al.**, **2005g:78023**
Krähenbühl, L. *see* **Dular, Patrick et al.**
Lahaye, Domenico (*with* Vandewalle, Stefan; Hameyer, Kay) An algebraic multilevel preconditioner for field-circuit coupled problems. (English summary)
Ledger, P. D. *see* **Hiptmair, Ralf**, **2005m:78028**
Legros, W. *see* **Gyselinck, Johan et al.**
Liang, Guo Ping *see* **Ma, Chang Feng et al.**, **2005g:78023**
Lohrengel, Stephanie *see* **Hazard, Christophe**, **2005a:78031**
Lu, Tiao (*with* Zhang, Ping Wen; Cai, Wei) Discontinuous Galerkin methods for dispersive and lossy Maxwell's equations and PML boundary conditions. (English summary) **2005e:78025**
Ma, Chang Feng (*with* Kang, Tong; Liang, Guo Ping) Finite element error estimates of the $T-\psi$ scheme for eddy current problems based on ungauged electrical vector potential. (Chinese. English summary) **2005g:78023**
Maday, Yvon *see* **Flemisch, Bernd et al.**
Maghiar, Theodor *see* **Ciric, Ioan R. et al.**, **2005c:78037**
Maischak, Matthias *see* **Stephan, Ernst P.**, **2005h:78028**
Martikainen, Janne (*with* Rossi, Tuomo; Rogovin, Kevin; Toivanen, Jari) Fast direct solver for a time-harmonic electromagnetic problem with an application. (English summary) (*see* **2005b:00020**)
— *see also* **Rogovin, Kevin**, (**2005b:00020**)
Melkebeek, J. *see* **Gyselinck, Johan et al.**
Monk, P. B. *see* **Cohen, Gary C. et al.**, (**2005b:00020**)
Nicaise, Serge On Zienkiewicz-Zhu error estimators for Maxwell's equations. (English and French summaries) **2005m:78029**
Nicolet, André (*with* Guenneau, Sébastien; Geuzaine, Christophe A.; Zolla, Frédéric) Modelling of electromagnetic waves in periodic media with finite elements. (English summary)
de Oliveira, Cassiano R. E. *see* **Pain, Christopher C. et al.**, **2005c:78038**
Packirisamy, Muthukumaran *see* **Dossou, Kokou et al.**
Pain, Christopher C. (*with* Herwanger, Jörg V.; Saunders, Jonathan H.; Worthington, Michael H.; de Oliveira, Cassiano R. E.) Anisotropic resistivity inversion. (English summary) **2005c:78038**
Pernet, Sébastien *see* **Cohen, Gary C. et al.**, (**2005b:00020**)
Perugia, Ilaria *see* **Houston, Paul et al.**, **2005h:78027**
Piperno, Serge *see* **Canouet, Nicolas et al.**, (**2005b:00020**)
Piriou, Francis *see* **Benabou, Abdelkader et al.**
Rapetti, Francesca *see* **Flemisch, Bernd et al.**
Rieben, Robert N. (*with* White, Daniel A.; Rodrigue, Garry H.) High-order symplectic integration methods for finite element solutions to time dependent Maxwell equations. (English summary)
— (*with* White, Daniel A.; Rodrigue, Garry H.) Improved conditioning of finite element matrices using new high-order interpolatory bases. (English summary)
Rodrigue, Garry H. *see* **Rieben, Robert N. et al.**
Rodríguez, Rodolfo *see* **Bermúdez de Castro, Alfredo et al.**, **2005d:78016**; **2005h:78025** *and* **2005m:78027**
Rogovin, Kevin (*with* Martikainen, Janne) Two implementations of Nédélec's mixed finite elements in $\mathbb{R}^3$. (*see* **2005b:00020**)
— *see also* **Martikainen, Janne et al.**, (**2005b:00020**)
Rossi, Tuomo *see* **Martikainen, Janne et al.**, (**2005b:00020**)
Salgado, Pilar *see* **Bermúdez de Castro, Alfredo et al.**, **2005d:78016**; **2005h:78025** *and* **2005m:78027**
Saunders, Jonathan H. *see* **Pain, Christopher C. et al.**, **2005c:78038**
Schötzau, Dominik *see* **Houston, Paul et al.**, **2005h:78027**
Shurina, E. P. *see* **Gelber, A. V. et al.**, (**2005i:65006**)
Stachowiak, Dorota *see* **Demenko, Andrzej**
Stephan, Ernst P. (*with* Maischak, Matthias) A posteriori error estimates for fem-bem couplings of three-dimensional electromagnetic problems. (English summary) **2005h:78028**
Stupfel, Bruno A study of the condition number of various finite element matrices involved in the numerical solution of Maxwell's equations. (English summary)
Tang, I. M. *see* **Archapitak, J. et al.**
Toivanen, Jari *see* **Martikainen, Janne et al.**, (**2005b:00020**)
Vandevelde, L. *see* **Gyselinck, Johan et al.**
Vandewalle, Stefan *see* **Lahaye, Domenico et al.**
Warburton, Timothy *see* **Hesthaven, Jan S.**
Weiland, Thomas *see* **De Gersem, Herbert et al.**
White, Daniel A. *see* **Rieben, Robert N. et al.**
Wiwatanapataphee, Benchawan *see* **Archapitak, J. et al.**
Wohlmuth, Barbara I. *see* **Flemisch, Bernd et al.**
Worthington, Michael H. *see* **Pain, Christopher C. et al.**, **2005c:78038**
Wu, Yong Hong[1] *see* **Archapitak, J. et al.**
Zeidan, T. *see* **Dular, Patrick et al.**
Zhang, Ping Wen *see* **Lu, Tiao et al.**, **2005e:78025**
Zolla, Frédéric *see* **Nicolet, André et al.**

Items with secondary classifications in 78M10

Alonso Rodríguez, Ana (*with* Hiptmair, Ralf; Valli, Alberto) Mixed finite element approximation of eddy current problems. (English summary) **2005d:65162**
Alouges, François (*with* Conti, Sergio; DeSimone, Antonio; Pokern, Yvo) Energetics and switching of quasi-uniform states in small ferromagnetic particles. (English summary) **2005d:65200**
Arbenz, Peter (*with* Geus, Roman) Multilevel preconditioned iterative eigensolvers for Maxwell eigenvalue problems. (English summary) **2005m:65075**
Azar, Badih *see* **Sayah, Toni**
Banks, H. T. (*with* Browning, Brian L.) Time domain electromagnetic scattering using finite elements and perfectly matched layers. (English summary) **2005h:78013**
Belik, Mary E. (*with* Usyk, Taras P.; McCulloch, Andrew D.) Computational methods for cardiac electrophysiology. (English summary) (*see* **2005e:92001**)
Ben Abdallah, Adnene (*with* Ben Belgacem, Faker; Maday, Yvon; Rapetti, Francesca) Mortaring the two-dimensional edge finite elements for the discretization of some electromagnetic models. (English summary) **2005g:65165**
Ben Belgacem, Faker *see* **Ben Abdallah, Adnene et al.**, **2005g:65165**
Benhassine, S. *see* **Silveira, J. L. et al.**, (**2005b:00020**)
Bettess, Peter *see* **Perrey-Debain, Emmanuel et al.**, **2005b:78017**
Bochev, Pavel B. (*with* Robinson, Allen C.) Matching algorithms with physics: exact sequences of finite element spaces. (*see* **2005h:65004**)
— (*with* Garasi, Christopher J.; Hu, Jonathan J.; Robinson, Allen C.; Tuminaro, Raymond S.) An improved algebraic multigrid method for solving Maxwell's equations. (English summary) **2005h:65241**
Bramble, James H. (*with* Pasciak, Joseph E.) A new approximation technique for div-curl systems. (English summary) **2005b:65124**
Brigadnov, Igor A. Limit analysis method in electrostatics. (English summary) **2005m:65261**
Browning, Brian L. *see* **Banks, H. T.**, **2005h:78013**
Buffa, Annalisa *see* **Demkowicz, Leszek F.**, **2005j:65139**
Carstensen, Carsten (*with* Praetorius, Dirk) Effective simulation of a macroscopic model for stationary micromagnetics. (English summary) **2005k:65241**
Cecot, Witold Modeling of electromagnetic fields in rectangular waveguides by coupled finite-infinite elements. (English summary) **2005j:65138**
Chen, Min-Hung (*with* Cockburn, Bernardo; Reitich, Fernando) High-order RKDG methods for computational electromagnetics. (English summary) **2005m:65208**
Cockburn, Bernardo *see* **Chen, Min-Hung et al.**, **2005m:65208**
Collino, Francis *see* **Sun, Jiguang et al.**, **2005c:78031**
Conti, Sergio *see* **Alouges, François et al.**, **2005d:65200**
De Coster, J. *see* **Sabariego, R. V. et al.**, **2005j:65148**
Demkowicz, Leszek F. (*with* Buffa, Annalisa) H^1, $H(\mathrm{curl})$ and $H(\mathrm{div})$-conforming projection-based interpolation in three dimensions. Quasi-optimal p-interpolation estimates. (English summary) **2005j:65139**

— Fully automatic hp-adaptivity for Maxwell's equations. (English summary) **2005m:65296**
— *see also* **Gopalakrishnan, Jayadeep et al., 2005c:65115**
DeSimone, Antonio *see* **Alouges, François et al., 2005d:65200**
Dossou, Kokou (*with* Fontaine, Marie) A high order isoparametric finite element method for the computation of waveguide modes. (English summary) **2005g:78017**
Duan, Huo-Yuan (*with* Liang, Guo Ping) Normal and tangential continuous elements for least-squares mixed finite element methods. (English summary) **2005d:65208**
Dular, Patrick *see* **Sabariego, R. V. et al., 2005j:65148** *and* **Gyselinck, Johan et al.**
El Hachemi, Mohamed (*with* Hassan, Oubay; Morgan, Kenneth; Rowse, David; Weatherill, N. P.) A low-order unstructured-mesh approach for computational electromagnetics in the time domain. (English summary) **2005b:78013**
Ern, Alexandre (*with* Guermond, Jean-Luc) ★ Theory and practice of finite elements. **2005d:65002**
Fontaine, Marie *see* **Dossou, Kokou, 2005g:78017**
Galeriu, C. *see* **Willatzen, Morten et al., (2005g:65009)**
Garasi, Christopher J. *see* **Bochev, Pavel B. et al., 2005h:65241**
Gelber, M. A. (*with* Shurina, E. P.) Analysis of vector finite element computational scheme for solving electromagnetic problems. (English summary) (*see* **2005i:65006**)
Geus, Roman *see* **Arbenz, Peter, 2005m:65075**
Geuzaine, Christophe A. *see* **Gyselinck, Johan et al.** *and* **Guenneau, Sébastien et al.**
Gómez Martín, Rafael *see* **Monorchio, Agostino et al., 2005h:78016**
Gopalakrishnan, Jayadeep (*with* Pasciak, Joseph E.; Demkowicz, Leszek F.) Analysis of a multigrid algorithm for time harmonic Maxwell equations. (English summary) **2005c:65115**
Gross, Paul W. (*with* Kotiuga, P. Robert) ★ Electromagnetic theory and computation: a topological approach. **2005d:78001**
Guenneau, Sébastien (*with* Nicolet, André; Geuzaine, Christophe A.; Zolla, Frédéric; Movchan, Alexander) Comparisons of finite element and Rayleigh methods for the study of conical Bloch waves in arrays of metallic cylinders. (English summary)
Guermond, Jean-Luc *see* **Ern, Alexandre, 2005d:65002**
Gyselinck, Johan (*with* Geuzaine, Christophe A.; Dular, Patrick; Legros, W.) Multi-harmonic modelling of motional magnetic field problems using a hybrid finite element-boundary element discretisation. (English summary)
— *see also* **Sabariego, R. V. et al., 2005j:65148**
Hameyer, Kay *see* **Sabariego, R. V. et al., 2005j:65148** *and* **Vande Sande, H. et al.**
Hassan, Oubay *see* **El Hachemi, Mohamed et al., 2005b:78013** *and* **Ledger, P. D. et al., 2005h:78014**
Henrotte, François *see* **Sabariego, R. V. et al., 2005j:65148** *and* **Vande Sande, H. et al.**
Hientzsch, Bernhard Fast solvers and Schwarz preconditioners for spectral Nédélec elements for a model problem in $H(\mathrm{curl})$. (*see* **2005f:65003**)
Hiptmair, Ralf From E to edge elements. (English summary) **2005a:78001**
— *see also* **Alonso Rodríguez, Ana et al., 2005d:65162**
Hoppe, Ronald H. W. Adaptive multigrid and domain decomposition methods in the computation of electromagnetic fields. (English summary)
Houston, Paul (*with* Perugia, Ilaria; Schneebeli, Anna; Schötzau, Dominik) Discontinuous Galerkin methods for the time-harmonic Maxwell equations. (English summary) (*see* **2005j:65003**)
— (*with* Perugia, Ilaria; Schötzau, Dominik) Mixed discontinuous Galerkin approximation of the Maxwell operator. (English summary) **2005b:65128**
Hu, Jonathan J. *see* **Bochev, Pavel B. et al., 2005h:65241**
Hu, Qi Ya (*with* Zou, Jun) A nonoverlapping domain decomposition method for Maxwell's equations in three dimensions. (English summary) **2005a:65131**
Kang, Tong (*with* Ma, Chang Feng; Liang, Guo Ping) H-based $\mathbf{A}-\varphi$ approaches of approximating eddy current problem by way of solving different systems inside and outside the conductor. (English summary) **2005h:65165**
— (*with* Wu, Zheng Peng; Yu, De Hao) An H-based $\mathbf{A}-\varphi$ method with a nonmatching grid for eddy current problem with discontinuous coefficients. (English summary) **2005j:65112**
Kotiuga, P. Robert *see* **Gross, Paul W., 2005d:78001**
Lacoste, Patrick La condensation de la matrice masse, ou mass-lumping, pour les éléments finis mixtes de Raviart-Thomas-Nédélec d'ordre 1. (English and French summaries) [Mass-lumping for first-order Raviart-Thomas-Nédélec mixed finite elements]
Laghrouche, Omar *see* **Perrey-Debain, Emmanuel et al., 2005b:78017**
Ledger, P. D. (*with* Morgan, Kenneth; Hassan, Oubay) Frequency and time domain electromagnetic scattering simulations employing higher order edge elements. (English summary) **2005h:78014**
Lee, Jin-Fa *see* **Lee, Seung-Cheol et al., 2005f:65169** *and* **Vouvakis, Marinos N. et al.**
Lee, Seung-Cheol (*with* Vouvakis, Marinos N.; Lee, Jin-Fa) A non-overlapping domain decomposition method with non-matching grids for modeling large finite antenna arrays. (English summary) **2005f:65169**
— *see also* **Vouvakis, Marinos N. et al.**
Legros, W. *see* **Gyselinck, Johan et al.**
Lew Yan Voon, L. C. *see* **Willatzen, Morten et al., (2005g:65009)**
Li, Fengyan *see* **Ying, Long An, 2005b:78006**
Liang, Guo Ping *see* **Duan, Huo-Yuan, 2005d:65208** *and* **Kang, Tong et al., 2005h:65165**
Lin, Jia Fu *see* **Lin, Qun[1], 2005i:65145**
Lin, Qun[1] (*with* Lin, Jia Fu) High accuracy approximation of mixed finite element for 2-D Maxwell equations. (Chinese. English and Chinese summaries) **2005i:65145**
Lukáčová-Medvid'ová, M. (*with* Saibertová, Jitka; Warnecke, Gerald G.; Zahaykah, Yousef) On evolution Galerkin methods for the Maxwell and the linearized Euler equations. (English summary) **2005h:65168**
Lukáš, Dalibor On solution to an optimal shape design problem in 3-dimensional linear magnetostatics. (English summary) **2005c:78010**
Ma, Chang Feng The finite element analysis of the controlled-source electromagnetic induction problems by fractional-step projection method. (English summary) **2005e:65147**
— Convergence of an alternating A-φ scheme for quasi-magnetostatic eddy current problem. (English summary) **2005h:65218**
— *see also* **Kang, Tong et al., 2005h:65165**
Maday, Yvon *see* **Ben Abdallah, Adnene et al., 2005g:65165**
Manara, Giuliano *see* **Monorchio, Agostino et al., 2005h:78016**
McCulloch, Andrew D. *see* **Belik, Mary E. et al., (2005e:92001)**
Mefire, Séraphin M. Exponential mesh approximations for a 3D exterior problem in magnetic induction. (English summary) **2005i:65190**
Melnik, Roderick V. N. *see* **Willatzen, Morten et al., (2005g:65009)**
Mikołajewicz, Jacek *see* **Nowak, Lech**
Mittra, Raj *see* **Monorchio, Agostino et al., 2005h:78016**
Monk, P. B. ★ Finite element methods for Maxwell's equations. **2005d:65003**
— *see also* **Sun, Jiguang et al., 2005c:78031**
Monorchio, Agostino (*with* Rubio Bretones, Amelia; Mittra, Raj; Manara, Giuliano; Gómez Martín, Rafael) A hybrid time-domain technique that combines the finite element, finite difference and method of moment techniques to solve complex electromagnetic problems. (English summary) **2005h:78016**
Morgan, Kenneth *see* **El Hachemi, Mohamed et al., 2005b:78013** *and* **Ledger, P. D. et al., 2005h:78014**
Movchan, Alexander *see* **Guenneau, Sébastien et al.**
Nicolet, André *see* **Guenneau, Sébastien et al.**
Nowak, Lech (*with* Mikołajewicz, Jacek) Field-circuit model of the dynamics of electromechanical device supplied by electronic power converters. (English summary)
Pasciak, Joseph E. *see* **Bramble, James H., 2005b:65124** *and* **Gopalakrishnan, Jayadeep et al., 2005c:65115**
Perrey-Debain, Emmanuel (*with* Laghrouche, Omar; Bettess, Peter; Trevelyan, Jon) Plane-wave basis finite elements and boundary elements for three-dimensional wave scattering. (English summary) **2005b:78017**
Perugia, Ilaria *see* **Houston, Paul et al., 2005b:65128** *and* **(2005j:65003)**
Pichon, L. *see* **Silveira, J. L. et al., (2005b:00020)**
Pokern, Yvo *see* **Alouges, François et al., 2005d:65200**
Praetorius, Dirk Analysis of the operator $\Delta^{-1}\mathrm{div}$ arising in magnetic models. (English summary) **2005i:35043**
— *see also* **Carstensen, Carsten, 2005k:65241**
Rachowicz, W. (*with* Zdunek, A.) An hp-adaptive finite element method for scattering problems in computational electromagnetics. (English summary) **2005k:78010**
— *see also* **Zdunek, A. et al., 2005k:78014**
Raizer, A. *see* **Silveira, J. L. et al., (2005b:00020)**
Rapetti, Francesca *see* **Ben Abdallah, Adnene et al., 2005g:65165**
Reitich, Fernando *see* **Chen, Min-Hung et al., 2005m:65208**
Robinson, Allen C. *see* **Bochev, Pavel B. et al., 2005h:65241** *and* **(2005h:65004)**
Rowse, David *see* **El Hachemi, Mohamed et al., 2005b:78013**
Rubio Bretones, Amelia *see* **Monorchio, Agostino et al., 2005h:78016**
Sabariego, R. V. (*with* Gyselinck, Johan; Dular, Patrick; De Coster, J.; Henrotte, François; Hameyer, Kay) Coupled mechanical-electrostatic FE-BE analysis with FMM acceleration: application to a shunt capacitive MEMS switch. (English summary) **2005j:65148**
Saibertová, Jitka *see* **Lukáčová-Medvid'ová, M. et al., 2005h:65168**
Sayah, Toni (*with* Azar, Badih) Effect of junction on electromagnetic waveguide transmission. (English summary)
Schneebeli, Anna *see* **Houston, Paul et al., (2005j:65003)**
Schötzau, Dominik *see* **Houston, Paul et al., 2005b:65128** *and* **(2005j:65003)**
Sehlstedt, N. *see* **Zdunek, A. et al., 2005k:78014**
Shurina, E. P. *see* **Gelber, M. A., (2005i:65006)**
Silveira, J. L. (*with* Benhassine, S.; Pichon, L.; Raizer, A.) Transient scattering from metallic enclosures using 3D time domain methods. (English summary) (*see* **2005b:00020**)
Sun, Jiguang (*with* Collino, Francis; Monk, P. B.; Wang, Lei) An eddy-current and micromagnetism model with applications to disk write heads. (English summary) **2005c:78031**
Trevelyan, Jon *see* **Perrey-Debain, Emmanuel et al., 2005b:78017**
Tuminaro, Raymond S. *see* **Bochev, Pavel B. et al., 2005h:65241**
Usyk, Taras P. *see* **Belik, Mary E. et al., (2005e:92001)**
Vacus, Olivier (*with* Vukadinovic, Nicolas) Dynamic susceptibility computations for thin magnetic films. (English summary) **2005i:78010**
Valli, Alberto *see* **Alonso Rodríguez, Ana et al., 2005d:65162**
Van, Tri (*with* Wood, Aihua W.) Analysis of transient electromagnetic scattering from overfilled cavities. (English summary) **2005a:78016**
— (*with* Wood, Aihua W.) A time-domain finite element method for Maxwell's equations. (English summary) **2005h:65173**
— (*with* Wood, Aihua W.) Finite element analysis of transient electromagnetic scattering problems. (English summary) **2005j:78031**
Vande Sande, H. (*with* Henrotte, François; Hameyer, Kay) The Newton-Raphson method for solving non-linear and anisotropic time-harmonic problems. (English summary)
Vouvakis, Marinos N. (*with* Lee, Seung-Cheol; Zhao, Kezhong; Lee, Jin-Fa) A symmetric FEM-IE formulation with a single-level IE-QR algorithm for solving electromagnetic radiation and scattering problems. (English summary)
— *see also* **Lee, Seung-Cheol et al., 2005f:65169**
Vukadinovic, Nicolas *see* **Vacus, Olivier, 2005i:78010**
Wang, Lei *see* **Sun, Jiguang et al., 2005c:78031**
Warnecke, Gerald G. *see* **Lukáčová-Medvid'ová, M. et al., 2005h:65168**
Weatherill, N. P. *see* **El Hachemi, Mohamed et al., 2005b:78013**
Willatzen, Morten (*with* Melnik, Roderick V. N.; Galeriu, C.; Lew Yan Voon, L. C.) Finite element analysis of nanowire superlattice structures. (English summary) (*see* **2005g:65009**)
Wood, Aihua W. *see* **Van, Tri, 2005a:78016; 2005h:65173** *and* **2005j:78031**
Wu, Zheng Peng *see* **Kang, Tong et al., 2005j:65112**
Ying, Long An (*with* Li, Fengyan) Exterior problem of the Darwin model and its numerical computation. (English summary) **2005b:78006**
Yu, De Hao *see* **Kang, Tong et al., 2005j:65112**
Zahaykah, Yousef *see* **Lukáčová-Medvid'ová, M. et al., 2005h:65168**
Zdunek, A. (*with* Rachowicz, W.; Sehlstedt, N.) Toward hp-adaptive solution of 3D electromagnetic scattering from cavities. (English summary) **2005k:78014**
— *see also* **Rachowicz, W., 2005k:78010**

Zhao, Jun[4] Analysis of finite element approximation for time-dependent Maxwell problems. (English summary) **2005b:65112**
Zhao, Kezhong *see* **Vouvakis, Marinos N. et al.**
Zolla, Frédéric *see* **Guenneau, Sébastien et al.**
Zou, Jun *see* **Hu, Qi Ya, 2005a:65131**

78M15 Boundary element methods

Burghignoli, Paolo (*with* Pajewski, Lara; Frezza, Fabrizio; Galli, Alessandro; Schettini, Giuseppe) Improved quadrature formulas for boundary integral equations with conducting or dielectric edge singularities. (English summary)
Frezza, Fabrizio *see* **Burghignoli, Paolo et al.**
Galli, Alessandro *see* **Burghignoli, Paolo et al.**
Pajewski, Lara *see* **Burghignoli, Paolo et al.**
Schettini, Giuseppe *see* **Burghignoli, Paolo et al.**

Items with secondary classifications in 78M15

Allan, P. (*with* Watt, A.) A study of corrosion related electromagnetic signatures of marine vessels using a BEM. (English summary) (*see* **2005d:65006**)
Bao, Zhongping (*with* Mukherjee, Subrata) Electrostatic BEM for MEMS with thin beams. (English summary)
Bettess, Peter *see* **Perrey-Debain, Emmanuel et al., 2005b:78017** *and* **(2005b:00020)**
Börm, Steffen Fast evaluation of eddy current integral operators. (English summary) **2005j:65153**
Botha, Matthys M. (*with* Jin, Jian Ming[2]) On the variational formulation of hybrid finite element-boundary integral techniques for electromagnetic analysis. (English summary)
Bruno, Oscar P. (*with* Geuzaine, Christophe A.; Monro, John A., Jr.; Reitich, Fernando) Prescribed error tolerances within fixed computational times for scattering problems of arbitrarily high frequency: the convex case. (English summary)
Buchau, André (*with* Hafla, Wolfgang; Rucker, Wolfgang M.) Fast and efficient 3D boundary element method for closed domains. (English summary) **2005j:65154**
Davies, Penny J. (*with* Duncan, Dugald B.) Stability and convergence of collocation schemes for retarded potential integral equations. (English summary) **2005k:65287**
De Coster, J. *see* **Sabariego, R. V. et al., 2005j:65148**
Dular, Patrick *see* **Sabariego, R. V. et al., 2005j:65148**
Duncan, Dugald B. *see* **Davies, Penny J., 2005k:65287**
Eppler, K. (*with* Harbrecht, Helmut) Exterior electromagnetic shaping using wavelet BEM. (English summary) **2005j:65155**
Geuzaine, Christophe A. *see* **Bruno, Oscar P. et al.**
Gyselinck, Johan *see* **Sabariego, R. V. et al., 2005j:65148**
Hafla, Wolfgang *see* **Buchau, André et al., 2005j:65154**
Hameyer, Kay *see* **Sabariego, R. V. et al., 2005j:65148**
Harbrecht, Helmut *see* **Eppler, K., 2005j:65155**
Henrotte, François *see* **Sabariego, R. V. et al., 2005j:65148**
Ivanov, V. Ya. (*with* Krasnykh, A.) Mixed numerical-analytical computations in 3D problems of physical electronics by the boundary element method. (English summary) **2005j:78010**
Jin, Jian Ming[2] *see* **Botha, Matthys M.**
Kost, Arnulf *see* **Schimmanz, Klaus, 2005j:65157**
Krasnykh, A. *see* **Ivanov, V. Ya., 2005j:78010**
Laghrouche, Omar *see* **Perrey-Debain, Emmanuel et al., 2005b:78017**
Maischak, Matthias *see* **Stephan, Ernst P., 2005h:78028**
Monro, John A., Jr. *see* **Bruno, Oscar P. et al.**
Mukherjee, Subrata *see* **Bao, Zhongping**
Perrey-Debain, Emmanuel (*with* Trevelyan, Jon; Bettess, Peter) Plane wave basis in integral equation for 3D scattering. (English summary) (*see* **2005b:00020**)
— (*with* Laghrouche, Omar; Bettess, Peter; Trevelyan, Jon) Plane-wave basis finite elements and boundary elements for three-dimensional wave scattering. (English summary) **2005b:78017**
Reitich, Fernando *see* **Bruno, Oscar P. et al.**
Rucker, Wolfgang M. *see* **Buchau, André et al., 2005j:65154**
Sabariego, R. V. (*with* Gyselinck, Johan; Dular, Patrick; De Coster, J.; Henrotte, François; Hameyer, Kay) Coupled mechanical-electrostatic FE-BE analysis with FMM acceleration: application to a shunt capacitive MEMS switch. (English summary) **2005j:65148**
Schimmanz, Klaus (*with* Kost, Arnulf) Formulation of mixed elements for the 2D-BEM. (English summary) **2005j:65157**
Stephan, Ernst P. (*with* Maischak, Matthias) A posteriori error estimates for fem-bem couplings of three-dimensional electromagnetic problems. (English summary) **2005h:78028**
Trevelyan, Jon *see* **Perrey-Debain, Emmanuel et al., 2005b:78017** *and* **(2005b:00020)**
Watt, A. *see* **Allan, P., (2005d:65006)**

78M20 Finite difference methods

Abdijalilov, Kakhkhor (*with* Grebel, Haim) *Z*-transform theory and FDTD stability. (English summary)
Akyurtlu, Alkim (*with* Werner, Douglas H.) BI-FDTD: a novel finite-difference time-domain formulation for modeling wave propagation in bi-isotropic media. (English summary)
— (*with* Werner, Douglas H.) A novel dispersive FDTD formulation for modeling transient propagation in chiral metamaterials. (English summary)
— (*with* Werner, Douglas H.) Modeling of transverse propagation through a uniaxial bianisotropic medium using the finite-difference time-domain technique. (English summary)
Bécache, Eliane (*with* Petropoulos, Peter G.; Gedney, Stephen D.) On the long-time behavior of unsplit perfectly matched layers. (English summary)
Bossavit, Alain Discretization of electromagnetic problems: the "generalized finite differences" approach.
Cai, Wei (*with* Deng, Shaozhong) An upwinding embedded boundary method for Maxwell's equations in media with material interfaces: 2D case. (English summary) **2005a:78032**
Chen, Bin *see* **Lu, Feng**
Chen, Zhizhang *see* **Ma, Changning**
Craddock, Ian J. *see* **Railton, Chris J. et al.**
Deng, Shaozhong *see* **Cai, Wei, 2005a:78032**
Faragó, István *see* **Horváth, Róbert et al., 2005f:78008**
Gedney, Stephen D. *see* **Bécache, Eliane et al.** *and* **Hagness, Susan C. et al.**
Grebel, Haim *see* **Abdijalilov, Kakhkhor**
Hagness, Susan C. (*with* Taflove, Allen; Gedney, Stephen D.) Finite-difference time-domain methods.
Hong, Wei[1] *see* **Xu, Feng**[8]
Horváth, Róbert (*with* Faragó, István; Schilders, W. H. A.) Iterative solution methods of the Maxwell equations using staggered grid spatial discretization. **2005f:78008**
Jordan, Andrzej (*with* Maple, Carsten) The modelling of the FDTD method based on graph theory. (English summary)
Kärkkäinen, Mikko K. FDTD model of electrically thick frequency-dispersive coatings on metals and semiconductors based on surface impedance boundary conditions. (English summary)
Klocke, M. Axisymmetric transient electromagnetic finite-difference scheme including prescribed motion. (English summary)
Koh, Boon Ping *see* **Railton, Chris J. et al.**
Lu, Feng (*with* Chen, Bin) The theory of a singularity-enhanced method for sharp metal edge diagonal to the cell cube in FDTD grid. (English summary)
Ma, Changning (*with* Chen, Zhizhang) Stability and numerical dispersion analysis of CE-FDTD method. (English summary)
Maple, Carsten *see* **Jordan, Andrzej**
Petropoulos, Peter G. *see* **Bécache, Eliane et al.**
Railton, Chris J. (*with* Koh, Boon Ping; Craddock, Ian J.) The treatment of thin wires in the FDTD method using a weighted residuals approach. (English summary)
Schilders, W. H. A. *see* **Horváth, Róbert et al., 2005f:78008**
Schneider, John Brand Plane waves in FDTD simulations and a nearly perfect total-field/scattered-field boundary. (English summary)
Sun, Guilin (*with* Trueman, Christopher W.) Approximate Crank-Nicolson schemes for the 2-D finite-difference time-domain method for TE_z waves. (English summary)
Taflove, Allen *see* **Hagness, Susan C. et al.**
Trueman, Christopher W. *see* **Sun, Guilin**
Wagner, Christopher L. Theoretical basis for numerically exact three-dimensional time-domain algorithms. (English summary) **2005m:78030**
Wei, Guo Wei *see* **Zhao, Shan, 2005c:78039**
Werner, Douglas H. *see* **Akyurtlu, Alkim**
Xu, Feng[8] (*with* Hong, Wei[1]) Domain decomposition FDTD algorithm for the analysis of a new type of E-plane sectorial Horn with aperture field distribution optimization (English summary)
Yu, Tongbin (*with* Zhou, Bihua) A memory-efficient FDTD algorithm for solving Maxwell equations in cylindrical grids. (English summary)
Zhao, Shan (*with* Wei, Guo Wei) High-order FDTD methods via derivative matching for Maxwell's equations with material interfaces. (English summary) **2005c:78039**
Zhou, Bihua *see* **Yu, Tongbin**

Items with secondary classifications in 78M20

Aguierre, C. *see* **Jiménez, Salvador et al., 2005a:65085**
Banks, H. T. (*with* Bokil, Vrushali A.) A computational and statistical framework for multidimensional domain acoustooptic material interrogation. (English summary) **2005j:78032**
Benamou, Jean-David (*with* Lafitte, Olivier; Solliec, Ian; Sentis, Rémi) A geometric optics method for high-frequency electromagnetic fields computations near fold caustics. II. The energy. (English summary) **2005d:78003**
Bokil, Vrushali A. *see* **Banks, H. T., 2005j:78032**
Brio, Moysey *see* **Zakharian, Aramis R. et al., 2005i:65129**
Cai, Wei Numerical methods for Maxwell's equations in inhomogeneous media with material interfaces. (English summary) **2005c:78016**
Collino, Francis *see* **Sun, Jiguang et al., 2005c:78031**
Elkin, N. Laser beam propagation through the multi-core fiber. (English summary) (*see* **2005c:65004**)
Fornberg, Bengt *see* **Lee, Jongwoo, 2005d:65141**
Gómez Martín, Rafael *see* **Monorchio, Agostino et al., 2005h:78016**
Gur'eva, Ya. L. (*with* Il'in, Valeriĭ Pavlovich; Solov'ev, S. A.) On numerical solution of the 3D magnetostatic problem. (*see* **2005i:65006**)
Hebermehl, Georg (*with* Hübner, Friedrich-Karl; Schlundt, Rainer; Tischler, Thorsten; Zscheile, Horst; Heinrich, Wolfgang) Simulation of microwave and semiconductor laser structures including absorbing boundary conditions. (English summary) (*see* **2005a:65001**)
Heinrich, Wolfgang *see* **Hebermehl, Georg et al., (2005a:65001)**
Hübner, Friedrich-Karl *see* **Hebermehl, Georg et al., (2005a:65001)**
Il'in, Valeriĭ Pavlovich *see* **Gur'eva, Ya. L. et al., (2005i:65006)**
Jiménez, Salvador (*with* Pascual Broncano, Pedro J.; Aguierre, C.; Vázquez Martínez, Luis) A panoramic view of some perturbed nonlinear wave equations. (English summary) **2005a:65085**
Lafitte, Olivier *see* **Benamou, Jean-David et al., 2005d:78003**
Lee, Jongwoo (*with* Fornberg, Bengt) Some unconditionally stable time stepping methods for the 3D Maxwell's equations. (English summary) **2005d:65141**
Manara, Giuliano *see* **Monorchio, Agostino et al., 2005h:78016**
Mittra, Raj *see* **Monorchio, Agostino et al., 2005h:78016**
Moloney, Jerome V. *see* **Zakharian, Aramis R. et al., 2005i:65129**
Monk, P. B. *see* **Sun, Jiguang et al., 2005c:78031**
Monorchio, Agostino (*with* Rubio Bretones, Amelia; Mittra, Raj; Manara, Giuliano; Gómez Martín, Rafael) A hybrid time-domain technique that combines the finite element, finite difference and method of moment techniques to solve complex electromag-

netic problems. (English summary) **2005h:78016**
Nicolaides, R. A method for complex geometries in finite-difference solutions of Maxwell's equations. (English summary) **2005h:65188**
Pascual Broncano, Pedro J. *see* **Jiménez, Salvador et al., 2005a:65085**
Rubio Bretones, Amelia *see* **Monorchio, Agostino et al., 2005h:78016**
Schlundt, Rainer *see* **Hebermehl, Georg et al., (2005a:65001)**
Sentis, Rémi *see* **Benamou, Jean-David et al., 2005d:78003**
Simpson, Jamesina J. (*with* Taflove, Allen) Three-dimensional FDTD modeling of impulsive ELF propagation about the Earth-sphere. (English summary)
Solliec, Ian *see* **Benamou, Jean-David et al., 2005d:78003**
Solov′ev, S. A. *see* **Gur′eva, Ya. L. et al., (2005i:65006)**
Sun, Jiguang (*with* Collino, Francis; Monk, P. B.; Wang, Lei) An eddy-current and micromagnetism model with applications to disk write heads. (English summary) **2005c:78031**
Taflove, Allen *see* **Simpson, Jamesina J.**
Tischler, Thorsten *see* **Hebermehl, Georg et al., (2005a:65001)**
Vázquez Martínez, Luis *see* **Jiménez, Salvador et al., 2005a:65085**
Wang, Lei *see* **Sun, Jiguang et al., 2005c:78031**
Zakharian, Aramis R. (*with* Brio, Moysey; Moloney, Jerome V.) FDTD based second-order accurate local mesh refinement method for Maxwell's equations in two space dimensions. (English summary) **2005i:65129**
Zscheile, Horst *see* **Hebermehl, Georg et al., (2005a:65001)**

78M25 Other numerical methods

Bachelot, Alain (*with* Darrigrand, Eric; Mer-Nkonga, Katherine) Coupling of a fast multipole method and a microlocal discretization for integral equations of electromagnetism. (*see* **2005b:00020**)
Barucq, Héléne A family of first-order conditions for the long-time stability of the Maxwell system. (*see* **2005b:00020**)
Bécache, Eliane (*with* Petropoulos, Peter G.; Gedney, Stephen D.) Long-time behavior of the unsplit PML. (*see* **2005b:00020**)
de la Bourdonnaye, Armel (*with* Tolentino, Marc) Reducing the condition number for microlocal discretization problems. (English summary)
Chew, Weng Cho *see* **Jiang, Li Jun, 2005b:78026**
Cimrák, Ivan (*with* Slodička, Marián) An iterative approximation scheme for the Landau-Lifshitz-Gilbert equation. (English summary) **2005d:78017**
Darrigrand, Eric *see* **Bachelot, Alain et al., (2005b:00020)**
Deliége, Geoffrey *see* **Henrotte, François et al.**
De Zutter, Daniël *see* **Vande Ginste, Dries et al.**
Gedney, Stephen D. *see* **Bécache, Eliane et al., (2005b:00020)**
Hameyer, Kay *see* **Henrotte, François et al.**
Henrotte, François (*with* Deliége, Geoffrey; Hameyer, Kay) The eggshell approach for the computation of electromagnetic forces in 2D and 3D. (English summary)
Jiang, Li Jun (*with* Chew, Weng Cho) A new capacitance extraction method. (English summary) **2005b:78026**
Jin, Jian Ming[2] *see* **Yılmaz, Ali E. et al., 2005h:78029**
Masserey, Alexandre (*with* Rappaz, Jacques; Rozsnyo, Roland; Swierkosz, Marek) Numerical integration of the three-dimensional Green kernel for an electromagnetic problem. (English summary) **2005m:78031**
Mer-Nkonga, Katherine *see* **Bachelot, Alain et al., (2005b:00020)**
Michielssen, Eric *see* **Yılmaz, Ali E. et al., 2005h:78029**
Olyslager, Frank *see* **Vande Ginste, Dries et al.**
Petropoulos, Peter G. *see* **Bécache, Eliane et al., (2005b:00020)**
Rahmat-Samii, Yahya *see* **Robinson, Jacob**
Rappaz, Jacques *see* **Masserey, Alexandre et al., 2005m:78031**
Razzaghi, Mohsen *see* **Shamsi, M., 2005a:78033**
Robinson, Jacob (*with* Rahmat-Samii, Yahya) Particle swarm optimization in electromagnetics. (English summary)
Rogier, Hendrik *see* **Vande Ginste, Dries et al.**
Rozsnyo, Roland *see* **Masserey, Alexandre et al., 2005m:78031**
Shamsi, M. (*with* Razzaghi, Mohsen) Efficient numerical techniques for solving Pocklington's integral equation using multiwavelets. (English summary) **2005a:78033**
Slodička, Marián *see* **Cimrák, Ivan, 2005d:78017**
Swierkosz, Marek *see* **Masserey, Alexandre et al., 2005m:78031**
Sylvand, Guillaume Complex industrial computations in electromagnetism using the fast multipole method. (English summary) (*see* **2005b:00020**)
Tolentino, Marc *see* **de la Bourdonnaye, Armel**
Tsynkov, S. V. (*with* Turkel, Eli) A Cartesian perfectly matched layer for the Helmholtz equation. (English summary) **2005a:78034**
Turkel, Eli *see* **Tsynkov, S. V., 2005a:78034**
Vande Ginste, Dries (*with* Rogier, Hendrik; Olyslager, Frank; De Zutter, Daniël) A fast multipole method for layered media based on the application of perfectly matched layers—the 2-D case. (English summary)
Yılmaz, Ali E. (*with* Jin, Jian Ming[2]; Michielssen, Eric) Time domain adaptive integral method for surface integral equations. (English summary) **2005h:78029**

Items with secondary classifications in 78M25

Balac, S. (*with* Benoit-Cattin, H.; Lamotte, T.; Odet, C.) Analytic solution to boundary integral computation of susceptibility induced magnetic field inhomogeneities. (English summary) **2005a:78006**
Bartoli, Nathalie (*with* Collino, Francis; Dodu, Fabrice) Using the multipole techniques for the far to near field transformation. (English summary) (*see* **2005b:00020**)
Benamou, Jean-David (*with* Lafitte, Olivier; Sentis, Rémi; Solliec, Ian) A Eulerian geometric optics method for high frequency electromagnetic fields computations in presence of fold caustics. (English summary) (*see* **2005b:00020**)
Benoit-Cattin, H. *see* **Balac, S. et al., 2005a:78006**
Bonod, Nicolas (*with* Popov, Evgeni; Nevière, Michel) Differential theory of diffraction by finite cylindrical objects. (English summary)
Buchau, André (*with* Hafla, Wolfgang; Groh, F.; Rucker, Wolfgang M.) Fast multipole boundary element method for the solution of 3D electrostatic field problems. (English summary) (*see* **2005d:65006**)
Cao, Qunsheng *see* **Chen, Yinchao et al., 2005i:78001**
Carpentieri, Bruno (*with* Duff, Iain S.; Giraud, Luc; Magolu monga Made, M.) Sparse symmetric preconditioners for dense linear systems in electromagnetism. (English summary) **2005h:65042**
Carstensen, Carsten (*with* Praetorius, Dirk) Effective simulation of a macroscopic model for stationary micromagnetics. (English summary) **2005k:65241**
Černý, Robert *see* **Přikryl, P. et al., (2005b:65003)**
Chen, Yinchao (*with* Cao, Qunsheng; Mittra, Raj) ★ Multiresolution time domain scheme for electromagnetic engineering. **2005i:78001**
Chew, Weng Cho Computational electromagnetics: the physics of smooth versus oscillatory fields. (English summary)
— *see also* **Ohnuki, Shinichiro, 2005c:78025**
Collino, Francis *see* **Bartoli, Nathalie et al., (2005b:00020)**
Coyle, Joe (*with* Ledger, P. D.) Evidence of exponential convergence in the computation of Maxwell eigenvalues. (English summary) **2005i:65171**
Darve, Eric (*with* Havé, Pascal) A fast multipole method for Maxwell equations stable at all frequencies. (English summary) **2005g:78005**
Davies, Penny J. On the numerical stability of schemes for time domain scattering from a thin strip. (English summary) (*see* **2005b:00020**)
Dodu, Fabrice *see* **Bartoli, Nathalie et al., (2005b:00020)**
Doumic, Marie *see* **Sentis, Rémi et al., (2005b:00020)**
Duff, Iain S. *see* **Carpentieri, Bruno et al., 2005h:65042**
Gatskevich, E. *see* **Přikryl, P. et al., (2005b:65003)**
Giraud, Luc *see* **Carpentieri, Bruno et al., 2005h:65042**
Golse, François *see* **Sentis, Rémi et al., (2005b:00020)**
Groh, F. *see* **Buchau, André et al., (2005d:65006)**
Hafla, Wolfgang *see* **Buchau, André et al., (2005d:65006)**
Havé, Pascal *see* **Darve, Eric, 2005g:78005**
Hermeline, François A finite volume method for solving Maxwell equations in inhomogeneous media on arbitrary meshes. (English and French summaries)
Hohage, Thorsten (*with* Schmidt, Frank[2]; Zschiedrich, Lin) Solving time-harmonic scattering problems based on the pole condition. II. Convergence of the PML method. (English summary) **2005f:78003**
Joyner, M. L. Comparison of two techniques for implementing the proper orthogonal decomposition method in damage detection problems. (English summary) **2005h:65194**
Lafitte, Olivier *see* **Benamou, Jean-David et al., (2005b:00020)**
Lamotte, T. *see* **Balac, S. et al., 2005a:78006**
Ledger, P. D. *see* **Coyle, Joe, 2005i:65171**
Lee, Jeonghwa (*with* Zhang, Jun[2]; Lu, Cai-Cheng) Sparse inverse preconditioning of multilevel fast multipole algorithm for hybrid integral equations in electromagnetics. (English summary)
Lu, Cai-Cheng *see* **Lee, Jeonghwa et al.**
Lu, Ya Yan A fourth-order Magnus scheme for Helmholtz equation. (English summary) **2005g:78019**
Magolu monga Made, M. *see* **Carpentieri, Bruno et al., 2005h:65042**
Michielssen, Eric *see* **Wildman, Raymond A. et al.**
Mittra, Raj *see* **Chen, Yinchao et al., 2005i:78001**
Nazarzadeh, J. *see* **Shamsi, M. et al., 2005g:65195**
Nevière, Michel *see* **Bonod, Nicolas et al.**
Odet, C. *see* **Balac, S. et al., 2005a:78006**
Ohnuki, Shinichiro (*with* Chew, Weng Cho) Truncation error analysis of multipole expansion. (English summary) **2005c:78025**
Olyslager, Frank Discretization of continuous spectra based on perfectly matched layers. (English summary) **2005b:34051**
Pisharody, Greeshma *see* **Wildman, Raymond A. et al.**
Popov, Evgeni *see* **Bonod, Nicolas et al.**
Praetorius, Dirk *see* **Carstensen, Carsten, 2005k:65241**
Přikryl, P. (*with* Gatskevich, E.; Černý, Robert) Computational solution of a two-phase moving boundary problem with two moving interfaces in pulsed laser processing of semiconductors. (English summary) (*see* **2005b:65003**)
Rahmouni, Adib N. An algebraic method to develop well-posed PML models. Absorbing layers, perfectly matched layers, linearized Euler equations. (English summary) **2005a:76124**
Razzaghi, Mohsen *see* **Shamsi, M. et al., 2005g:65195**
Rucker, Wolfgang M. *see* **Buchau, André et al., (2005d:65006)**
Schmidt, Frank[2] *see* **Hohage, Thorsten et al., 2005f:78003**
Sentis, Rémi (*with* Doumic, Marie; Golse, François) Paraxial approximation in a tilted frame for laser wave propagation. (English summary) (*see* **2005b:00020**)
— *see also* **Benamou, Jean-David et al., (2005b:00020)**
Shafiee, M. *see* **Shamsi, M. et al., 2005g:65195**
Shamsi, M. (*with* Razzaghi, Mohsen; Nazarzadeh, J.; Shafiee, M.) Haar wavelets method for solving Pocklington's integral equation. (English summary) **2005g:65195**
Shanker, Balasubramaniam *see* **Wildman, Raymond A. et al.**
Solliec, Ian *see* **Benamou, Jean-David et al., (2005b:00020)**
Tsynkov, S. V. On the application of lacunae-based methods to Maxwell's equations. (English summary) **2005c:35277**
Weile, Daniel S. *see* **Wildman, Raymond A. et al.**
Wildman, Raymond A. (*with* Pisharody, Greeshma; Weile, Daniel S.; Shanker, Balasubramaniam; Michielssen, Eric) An accurate scheme for the solution of the time-domain integral equations of electromagnetics using higher order vector bases and bandlimited extrapolation. (English summary)
Zhang, Jun[2] *see* **Lee, Jeonghwa et al.**
Zschiedrich, Lin *see* **Hohage, Thorsten et al., 2005f:78003**

78M30 Variational methods

Sveshnikov, V. M. Numerical analysis of intensive charged particle beams on quasistruc-

tured grids. (*see* **2005i:65006**)

Items with secondary classifications in 78M30

Fedoruk, M. P. *see* **Shtyrina, O. V. et al.**, (**2005i:65006**)
Medvedev, Sergei B. *see* **Shtyrina, O. V. et al.**, (**2005i:65006**)
Pelinovsky, Dmitry E. (*with* Yang, Jianke) Parametric resonance and radiative decay of dispersion-managed solitons. (English summary) **2005c:35267**
Rubinstein, Jacob (*with* Schatzman, Michelle; Sternberg, Peter) Ginzburg-Landau model in thin loops with narrow constrictions. (English summary) **2005h:82119**
Schatzman, Michelle *see* **Rubinstein, Jacob et al., 2005h:82119**
Shtyrina, O. V. (*with* Medvedev, Sergei B.; Fedoruk, M. P.) Dispersion-managed soliton for path-averaged model of optical fiber communication line. (English summary) (*see* **2005i:65006**)
Sternberg, Peter *see* **Rubinstein, Jacob et al., 2005h:82119**
Yang, Jianke *see* **Pelinovsky, Dmitry E., 2005c:35267**

78M35 Asymptotic analysis

Items with secondary classifications in 78M35

Amendola, Giovambattista On the asymptotic behaviour for an electromagnetic system with a dissipative boundary condition. (English summary) **2005k:78005**
Boucheres, T. (*with* Colin, Thierry; Nkonga, B.; Texier, Benjamin; Bourgeade, Antoine) Study of a mathematical model for stimulated Raman scattering. (English summary) **2005g:78020**
Bourgeade, Antoine *see* **Boucheres, T. et al., 2005g:78020**
Colin, Thierry (*with* Ebrard, G.; Gallice, G.; Texier, Benjamin) Justification of the Zakharov model from Klein-Gordon–wave systems. (English summary) **2005k:35372**
— *see also* **Boucheres, T. et al., 2005g:78020**
Ebrard, G. *see* **Colin, Thierry et al., 2005k:35372**
Gallice, G. *see* **Colin, Thierry et al., 2005k:35372**
Jochmann, Frank Nonlinear Maxwell-equations in the thin-film limit. (English summary) **2005i:78007**
Nkonga, B. *see* **Boucheres, T. et al., 2005g:78020**
Texier, Benjamin *see* **Boucheres, T. et al., 2005g:78020** *and* **Colin, Thierry et al., 2005k:35372**

78M40 Homogenization

Items with secondary classifications in 78M40

Engström, Christian (*with* Kristensson, Gerhard; Sjöberg, Daniel; Wall, David J. N.; Wellander, Niklas) Homogenization of the Maxwell equations using Floquet-Bloch decomposition. (English summary) (*see* **2005b:00020**)
Kristensson, Gerhard *see* **Engström, Christian et al.**, (**2005b:00020**)
Sjöberg, Daniel *see* **Engström, Christian et al.**, (**2005b:00020**)
Wall, David J. N. *see* **Engström, Christian et al.**, (**2005b:00020**)
Wellander, Niklas *see* **Engström, Christian et al.**, (**2005b:00020**)

78M50 Optimization

Kang, Jenam *see* **Wang, Semyung et al.**
Liu, Gui-Rong *see* **Xu, Y. G. et al.**, (**2005d:35008**)
Ohtsubo, Hideomi *see* **Xu, Y. G. et al.**, (**2005d:35008**)
Park, Seungkyu *see* **Wang, Semyung et al.**
Wang, Semyung (*with* Park, Seungkyu; Kang, Jenam) Multi-domain topology optimization of electromagnetic systems. (English summary)
Xu, Y. G. (*with* Liu, Gui-Rong; Ohtsubo, Hideomi) A novel hybrid genetic algorithm and its application to inverse problems in MEMs. (English summary) (*see* **2005d:35008**)

Items with secondary classifications in 78M50

Bondeson, A. (*with* Yang, Yongtao; Weinerfelt, P.) Shape optimization for radar cross sections by a gradient method. (English summary) **2005d:49060**
Bruckner, Gottfried (*with* Elschner, Johannes) The numerical solution of an inverse periodic transmission problem. (English summary) **2005m:78013**
Cameron, David C. *see* **Moiseev, Tamara**
Elschner, Johannes (*with* Hsiao, G. C.; Rathsfeld, A.) Grating profile reconstruction based on finite elements and optimization techniques. (English summary) **2005d:35268**
— *see also* **Bruckner, Gottfried, 2005m:78013**
Hsiao, G. C. *see* **Elschner, Johannes et al., 2005d:35268**
Li, Zhiping (*with* Wu, Xiao Nan) Multi-atomic Young measure and artificial boundary in approximation of micromagnetics. (English summary) **2005f:49096**
Moiseev, Tamara (*with* Cameron, David C.) A three-step algorithm for solving 2D inverse magnetostatic problems for magnetron design applications. (English summary)
Rathsfeld, A. *see* **Elschner, Johannes et al., 2005d:35268**
Weinerfelt, P. *see* **Bondeson, A. et al., 2005d:49060**
Wu, Xiao Nan *see* **Li, Zhiping, 2005f:49096**
Yang, Yongtao *see* **Bondeson, A. et al., 2005d:49060**

78M99 None of the above, but in this section

Fernandes, Carlos A. *see* **Silveirinha, Mário G.**
Silveirinha, Mário G. (*with* Fernandes, Carlos A.) A new acceleration technique with exponential convergence rate to evaluate periodic Green functions. (English summary)

Items with secondary classifications in 78M99

Chowdhury, Indranil (*with* Jandhyala, Vikram) Single level multipole expansions and operators for potentials of the form $r^{-\lambda}$. (English summary) **2005j:70020**
Clemens, Markus (*with* Feigh, S.; Wilke, Markus; Weiland, Thomas) Non-nested geometric multigrid method using consistency error correction for discrete magnetic curl-curl formulations. (English summary)
Feigh, S. *see* **Clemens, Markus et al.**
Ito, Kazufumi *see* **Kojima, Fumio, 2005m:65246**
Jandhyala, Vikram *see* **Chowdhury, Indranil, 2005j:70020**
Kojima, Fumio (*with* Ito, Kazufumi) Inverse analysis of magnetic charge densities using discrete Fourier transform with Tikhonov regularization. (English summary) **2005m:65246**
Martensen, Erich (*with* Ritter, Stefan) The integral equation method for dipole equilibrium. (English summary) **2005c:31005**
Ritter, Stefan *see* **Martensen, Erich, 2005c:31005**
Weiland, Thomas *see* **Clemens, Markus et al.**
Wilke, Markus *see* **Clemens, Markus et al.**

80–XX Classical thermodynamics, heat transfer {For thermodynamics of solids, see 74A15.}

80–01 Instructional exposition (textbooks, tutorial papers, etc.)

Broadbridge, Philip *see* **Fulford, Glenn R., 2005a:80001**
Fulford, Glenn R. (*with* Broadbridge, Philip) ★ Industrial mathematics. **2005a:80001**

Items with secondary classifications in 80–01

Szekeres, Peter ★ A course in modern mathematical physics. **2005h:00001**

80–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 80–03

Hendry, Robin Findlay The physicists, the chemists, and the pragmatics of explanation. (English summary)
Needham, Paul Has Daltonian atomism provided chemistry with any explanations? (English summary)

80Axx Thermodynamics and heat transfer

80A05 Foundations

Allakhverdyan, A. È. (*with* Balian, Roger; Nieuwenhuizen, Th. M.) Thomson's formulation of the second law for macroscopic and finite work sources. (English summary) **2005e:80001**
Balian, Roger *see* **Allakhverdyan, A. È. et al., 2005e:80001**
Berdichevskiĭ, V. L. Structure of equations of macrophysics. (English summary) **2005a:80002**
Callender, Craig A collision between dynamics and thermodynamics. (English summary) **2005c:80001**
Gruber, Christian (*with* Pache, Séverine; Lesne, Annick) On the second law of thermodynamics and the piston problem. (English summary) **2005h:80001**
Lesne, Annick *see* **Gruber, Christian et al., 2005h:80001**
Nieuwenhuizen, Th. M. *see* **Allakhverdyan, A. È. et al., 2005e:80001**
Pache, Séverine *see* **Gruber, Christian et al., 2005h:80001**
Ruggeri, Tommaso The entropy principle: from continuum mechanics to hyperbolic systems of balance laws. (English and Italian summaries) **2005i:80001**
Sugai, Tetuya Integrability of heat and its integrating factor in classical thermodynamics. (English summary) **2005g:80001**
Wheeler, John C. Resolution of a classical gravitational second-law paradox. (English summary) **2005m:80001**

Items with secondary classifications in 80A05

Barbera, E. (*with* Müller, Ingo; Reitebuch, D.; Zhao, N.-R.) Determination of boundary conditions in extended thermodynamics via fluctuation theory. (English summary) **2005e:82093**
Callender, Craig Measures, explanations and the past: should 'special' initial conditions be explained? (English summary) **2005a:00003**
Candeal-Haro, Juan Carlos (*with* de Miguel Velasco, Juan Ramón; Induráin Eraso, Esteban; Mehta, Ghanshyam B.) Representations of ordered semigroups and the physical concept of entropy. (English summary) **2005f:06018**
Chellaboina, Vijaya-Sekhar *see* **Haddad, Wassim M. et al., 2005b:34103**
Haddad, Wassim M. (*with* Chellaboina, Vijaya-Sekhar; Nersesov, Sergey G.) Thermodynamics and large-scale nonlinear dynamical systems: a vector dissipative systems approach. (English summary) **2005b:34103**
Il'ichev, A. T. (*with* Tsypkin, G. G.) Criteria of hydrodynamic instability of a phase interface in hydrothermal systems. (Russian. Russian summary) **2005i:76053**
Induráin Eraso, Esteban *see* **Candeal-Haro, Juan Carlos et al., 2005f:06018**
Ławrynowicz, Julian From Charzyński parametrization of algebraic functions to the variational principle interpreted as the first principle of thermodynamics in the presence of electromagnetic field. (English and Polish summaries) **2005h:30036**
Mehta, Ghanshyam B. *see* **Candeal-Haro, Juan Carlos et al., 2005f:06018**
de Miguel Velasco, Juan Ramón *see* **Candeal-Haro, Juan Carlos et al., 2005f:06018**
Müller, Ingo Considerations about the Gibbs paradox. (English summary) (*see* **2005c:00016**)
— *see also* **Barbera, E. et al., 2005e:82093**
Nersesov, Sergey G. *see* **Haddad, Wassim M. et al., 2005b:34103**
Rajagopal, A. K. Heat and entropy in nonextensive thermodynamics. (English summary) **2005b:82004**
Reitebuch, D. *see* **Barbera, E. et al., 2005e:82093**
Ruggeri, Tommaso (*with* Trovato, Massimo) Hyperbolicity in extended thermodynamics of Fermi and Bose gases. (English summary) **2005k:82057**
Scerri, Eric Principles and parameters in physics and chemistry. (English summary) **2005m:80010**
Simion, Nicolae Various aspects and interpretations of the second law of thermodynamics. (English summary) **2005d:80003**
Trovato, Massimo *see* **Ruggeri, Tommaso, 2005k:82057**
Tsypkin, G. G. *see* **Il'ichev, A. T., 2005i:76053**
Wada, Tatsuaki Thermodynamic stability conditions for nonadditive composable entropies. (English summary)
Winsberg, Eric Can conditioning on the "past hypothesis" militate against the reversibility objections? (English summary) **2005j:00004**
Zhao, N.-R. *see* **Barbera, E. et al., 2005e:82093**

80A10 Classical thermodynamics, including relativistic

Angulo-Brown, F. *see* **Ares de Parga, G. et al., 2005k:80001**
Ares de Parga, G. (*with* López-Carrera, B.; Angulo-Brown, F.) A proposal for relativistic transformations in thermodynamics. (English summary) **2005k:80001**
Boer, Attila Fields influences on thermodynamical and fluctuations properties of systems. (English summary) **2005a:80003**
Borghero, Francesco (*with* Demontis, F.; Pennisi, Sebastiano) An exact macroscopic extended model with many moments for ultrarelativistic gases. **2005d:80001**
— (*with* Pennisi, Sebastiano) The non-linear macroscopic model of relativistic extended thermodynamics of an ultra-relativistic gas. (English and Italian summaries) **2005i:80002**
Carrisi, M. C. *see* **Pennisi, Sebastiano, 2005g:80002**
Demontis, F. *see* **Borghero, Francesco et al., 2005d:80001**
Jesudason, Christopher Gunaseelan Analysis of open system Carnot cycle and state functions. (English summary) **2005h:80002a**
— New entropy and other state functions from analysis of open system Carnot cycle. Erratum to: "Analysis of open system Carnot cycle and state functions" [Nonlinear Anal. Real World Appl. **5** (2004), no. 4, 695–710; MR2079276 (2005h:80002a)]. **2005h:80002b**
Kiehn, R. M. Entropy production and irreversible processes. (English summary) **2005f:80001**
López-Carrera, B. *see* **Ares de Parga, G. et al., 2005k:80001**
Pennisi, Sebastiano (*with* Carrisi, M. C.) On the exact macroscopic approach to extended thermodynamics with 20 moments. **2005g:80002**
— (*with* Scanu, A.) Judicious interpretation of the conditions present in extended thermodynamics. **2005g:80003**
— *see also* **Borghero, Francesco et al., 2005d:80001** *and* **2005i:80002**
Scanu, A. *see* **Pennisi, Sebastiano, 2005g:80003**

Items with secondary classifications in 80A10

Bechtel, Stephen E. (*with* Rooney, Francis J.; Forest, M. Gregory) Connections between stability, convexity of internal energy, and the second law for compressible Newtonian fluids. (English summary) **2005m:76094**
Belgiorno, F. (*with* Martellini, M.) Black holes and the third law of thermodynamics. (English summary) **2005f:83051**
Callender, Craig A collision between dynamics and thermodynamics. (English summary) **2005c:80001**
Eu, Byung Chan Generalized hydrodynamics in the transient regime and irreversible thermodynamics. (English summary) **2005c:76014**
Forest, M. Gregory *see* **Bechtel, Stephen E. et al., 2005m:76094**
Kiss, Endre From minimum entropy production principle to minimum information loss with elliptic type quasilinear PDEs. (English summary) (*see* **2005c:62004**)
Martellini, M. *see* **Belgiorno, F., 2005f:83051**
Mesón, A. M. (*with* Vericat, F.) Relations between some quantities in classical thermodynamics and abstract dynamics. Beyond hyperbolicity. (English summary) **2005c:37052**
Rooney, Francis J. *see* **Bechtel, Stephen E. et al., 2005m:76094**
Sugai, Tetuya Integrability of heat and its integrating factor in classical thermodynamics. (English summary) **2005g:80001**
Vericat, F. *see* **Mesón, A. M., 2005c:37052**

80A17 Thermodynamics of continua [see also 74A15]

Ciancio, Vincenzo (*with* Francaviglia, Mauro) Non-Euclidean structures as internal variables in non-equilibrium thermomechanics. (English summary) **2005d:80002**
Francaviglia, Mauro *see* **Ciancio, Vincenzo, 2005d:80002**
Serdyukov, S. I. Extended irreversible thermodynamics and the Jeffreys type constitutive equations. (English summary) **2005b:80001**
Simion, Nicolae Various aspects and interpretations of the second law of thermodynamics. (English summary) **2005d:80003**

Items with secondary classifications in 80A17

Balandraud, Xavier (*with* Ernst, Emil; Soós, Eugen) Monotone strain-stress models for shape memory alloys hysteresis loop and pseudoelastic behavior. (English summary) **2005i:74002**
Bonfoh, Ahmed Some Cahn-Hilliard-Gurtin models with a logarithmic potential. (English summary) **2005i:35036**
Carillo, Sandra Some remarks on materials with memory: heat conduction and viscoelasticity. (English summary) **2005h:74017**
Ernst, Emil *see* **Balandraud, Xavier et al., 2005i:74002**
Fosdick, Roger L. (*with* Truskinovsky, Lev) About Clapeyron's theorem in linear elasticity. (English summary) **2005h:74002**
Godunov, Sergeĭ Konstantinovich A Galilean-invariant and thermodynamically consistent model of a composite isotropic medium. (Russian. Russian summary) **2005d:76043**
Hanyga, Andrzej Two-fluid porous flow in a single temperature approximation. (English summary) **2005b:76128**
Ieşan, D. (*with* Nappa, L.) On the theory of heat for micromorphic bodies. (English summary) **2005h:74003**
Ivanova, A. N. (*with* Kuchanov, S. I.; Manevich, L. I.) Bifurcation analysis for the construction of a phase diagram of heteropolymer liquids. (English summary) **2005k:80005**
Khobragade, N. W. (*with* Wankhede, P. C.) An inverse unsteady-state problem of thermoelastic deformation of a finite length hollow cylinder. II. (English summary) **2005c:74018**
— (*with* Wankhede, P. C.) An inverse steady-state problem of thermoelastic deformation of a finite length hollow cylinder. III. (English summary) **2005i:74022**
Kuchanov, S. I. *see* **Ivanova, A. N. et al., 2005k:80005**
Manevich, L. I. *see* **Ivanova, A. N. et al., 2005k:80005**
Mongiovì, M. S. (*with* Peruzza, R. A.) Entropy flux far from equilibrium in solids and in non viscous gases. (English and Italian summaries) **2005c:74003**
Musolff, A. (*with* Sahota, Harsimar) Phase transitions in the shape memory alloy CuAlNi. (English summary)

Nappa, L. *see* **Ieşan, D., 2005h:74003**
Peruzza, R. A. *see* **Mongiovì, M. S., 2005c:74003**
Povstenko, Yu. Z. Fractional heat conduction equation and associated thermal stress. (English summary) **2005i:74024**
Rakotomanana, L. R. ★ A geometric approach to thermomechanics of dissipating continua. **2005h:74004**
Ruggeri, Tommaso The entropy principle: from continuum mechanics to hyperbolic systems of balance laws. (English and Italian summaries) **2005i:80001**
Sahota, Harsimar *see* **Musolff, A.**
Soós, Eugen *see* **Balandraud, Xavier et al., 2005i:74002**
Truskinovsky, Lev *see* **Fosdick, Roger L., 2005h:74002**
Wankhede, P. C. *see* **Khobragade, N. W., 2005c:74018** *and* **2005i:74022**

80A20 Heat and mass transfer, heat flow

Amendola, Giovambattista (*with* Carillo, Sandra) Thermal work and minimum free energy in a heat conductor with memory. (English summary) **2005f:80002**
Balint, A. M. *see* **Balint, Ş t., 2005g:80004**
Balint, Ş t. (*with* Balint, A. M.) Flow field, temperature, and dopant concentration evolution in a Bridgman-Stockbarger crystal growth system in a strictly zero-gravity and a low-gravity environment. (English summary) **2005g:80004**
Beck, James V. *see* **Yen, David H. Y., 2005c:80004**
Belk, Michaël (*with* Vol'pert, Vit. A.) Modeling of heat explosion with convection. (English summary) **2005a:80004**
Carillo, Sandra *see* **Amendola, Giovambattista, 2005f:80002**
Chaplya, Ē. Ya. (*with* Chernukha, O. Yu.) Diffusion in a layer with randomly located spherical inclusions. (Ukrainian. English summary) **2005g:80005**
Chernov, Nikolai I. On a slow drift of a massive piston in an ideal gas that remains at mechanical equilibrium. (English summary) **2005k:80002**
Chernukha, O. Yu. *see* **Chaplya, Ē. Ya., 2005g:80005**
Cimmelli, V. A. (*with* Oliveri, Francesco) A diffusive-hyperbolic model for heat conduction. (English summary) **2005j:80001**
Cole, Kevin D. Fast-converging series for heat conduction in the circular cylinder. (English summary) **2005c:80002**
Dai, Weizhong *see* **Zhu, Teng et al., 2005h:80005**
Deuflhard, Peter *see* **Hochmuth, Reinhard, 2005g:80006**
Galant, Adam (*with* Kutner, Ryszard; Majerowski, Andrzej) Heat transfer, Newton's law of cooling and the law of entropy increase simulated by the real-time computer experiment in Java. (English summary) (*see* **2005c:00014**)
Gasser, Ingenuin On the mathematics of tunnel fires. (English summary) **2005a:80005**
Gromyko, G. F. (*with* Tabakova, S. S.; Popova, Liuba Ivanova) On the cooling of a free thin film at the presence of the van der Waals forces. (English and Lithuanian summaries)
Hazarika, G. C. Heat transfer between two parallel disks. (English summary)
Hochmuth, Reinhard (*with* Deuflhard, Peter) Multiscale analysis for the bio-heat transfer equation—the nonisolated case. (English summary) **2005g:80006**
Horgan, Cornelius O. (*with* Quintanilla, R.) Spatial behaviour of solutions of the dual-phase-lag heat equation. (English summary) **2005i:80003**
Ivanova, J. (*with* Valeva, V.; Mróz, Z.) Interphase model for a multilayer structures applied in heat conduction problems. (English summary) **2005h:80003**
Krishenik, P. M. (*with* Shkadinskiĭ, K. G.) A high-temperature thermal front with nonlinear heat conduction. (Russian) **2005g:80007**
Kutner, Ryszard *see* **Galant, Adam et al., (2005c:00014)**
López Molina, Juan Antonio (*with* Trujillo Guillén, Macarena) Hyperbolic heat conduction in two semi-infinite bodies in contact. (English summary) **2005m:80002**
Lu, Xiaoshu (*with* Tervola, P.) Transient heat conduction in the composite slab-analytical method. (English summary) **2005i:80004**
— (*with* Tervola, P.; Viljanen, M.) A new analytical method to solve the heat equation for a multi-dimensional composite slab. (English summary) **2005k:80003**
Majerowski, Andrzej *see* **Galant, Adam et al., (2005c:00014)**
Martinson, L. K. (*with* Morozov, K. V.) Modeling the evolution of temperature fields in nonhomogeneous media. (Russian. English and Russian summaries)
Melnikov, Yu. A. Influence functions of a point source for perforated compound plates with facial convection. (English summary) **2005c:80003**
Morozov, K. V. *see* **Martinson, L. K.**
Mróz, Z. *see* **Ivanova, J. et al., 2005h:80003**
Oliveri, Francesco *see* **Cimmelli, V. A., 2005j:80001**
Popova, Liuba Ivanova *see* **Gromyko, G. F. et al.**
Qatanani, Naji (*with* Schulz, Monika) The heat radiation problem: three-dimensional analysis for arbitrary enclosure geometries. (English summary) **2005f:80003**
Quintanilla, R. (*with* Straughan, B.) Explosive instabilities in heat transmission. (English summary) **2005b:80002**
— *see also* **Horgan, Cornelius O., 2005i:80003**
Rychlewska, Jowita (*with* Szymczyk, Jolanta; Woźniak, Czesław) On the modeling of the hyperbolic heat transfer problems in periodic lattice-type conductors. (English summary) **2005d:80004**
Schulz, Monika *see* **Qatanani, Naji, 2005f:80003**
Shen, Lixin[1] *see* **Zhu, Teng et al., 2005h:80005**
Shkadinskiĭ, K. G. *see* **Krishenik, P. M., 2005g:80007**
Straughan, B. *see* **Quintanilla, R., 2005b:80002**
Szymczyk, Jolanta *see* **Rychlewska, Jowita et al., 2005d:80004**
Tabakova, S. S. *see* **Gromyko, G. F. et al.**
Tervola, P. *see* **Lu, Xiaoshu et al., 2005i:80004** *and* **2005k:80003**
Trujillo Guillén, Macarena *see* **López Molina, Juan Antonio, 2005m:80002**
Valeva, V. *see* **Ivanova, J. et al., 2005h:80003**
Viljanen, M. *see* **Lu, Xiaoshu et al., 2005k:80003**
Vol'pert, Vit. A. *see* **Belk, Michaël, 2005a:80004**
Weigand, Bernhard ★ Analytical methods for heat transfer and fluid flow problems. **2005h:80004**
Woźniak, Czesław *see* **Rychlewska, Jowita et al., 2005d:80004**
Yen, David H. Y. (*with* Beck, James V.) Green's functions and three-dimensional steady-state heat-conduction problems in a two-layered composite. (English summary) **2005c:80004**
Yuan, Ping[1] Transient response of a three-gas crossflow heat exchanger with step change in inlet temperature. (English summary) **2005c:80005**
Zhu, Teng (*with* Dai, Weizhong; Shen, Lixin[1]) Comparison of the solutions of a 1D dual-phase-lagging heat transport equation and its appoximations. (English summary) **2005h:80005**

Items with secondary classifications in 80A20

Abd-El-Malek, Mina B. (*with* Michael, Fayez H.; El-Mansi, Samy M. A.) Group method analysis of two-dimensional plate in heat flux. (English summary) **2005d:35010**
Akimenko, V. V. (*with* Cheremnykh, O. K.) Modeling rotational flows on the background of a two-dimensional convective heat and mass transfer process. (Russian. English, Russian and Ukrainian summaries) **2005i:76039**
Asensio Sevilla, María Isabel (*with* Ferragut, L.; Simon, Jacques) A convection model for fire spread simulation. (English summary) **2005k:76123**
Attia, Hazem Ali (*with* Sayed-Ahmed, Mohamed Eissa) Non-Newtonian conducting fluid flow and heat transfer due to a rotating disk. (English summary) **2005e:76001**
— Numerical study of flow and heat transfer of a non-Newtonian fluid on a rotating porous disk. (English summary) **2005h:76003**
Barrea, Andrés (*with* Turner, Cristina) Time estimates for the phase-change process in a material with a perfect thermal contact boundary condition. (English summary) **2005b:80004**
Bazid, M. A. A. *see* **Elbashbeshy, E. M. A., 2005e:76036** *and* **2005g:76117**
Ben Amar, Martine *see* **Sultan, Eric et al., 2005i:76012**
Berger, J. R. (*with* Martin, Paul Andrew; Mantič, V.; Gray, L. J.) Fundamental solutions for steady-state heat transfer in an exponentially graded anisotropic material. (English summary) **2005j:35002**
Birgelis, K. Temperature modelling within a thin material sheet involved in conductive-radiative heat transfer. (English summary) **2005m:35125**
Boudaoud, Arezki *see* **Sultan, Eric et al., 2005i:76012**
Bruno, Alexander D. (*with* Shadrina, T. V.) An axisymmetric boundary layer on a needle. (Russian) **2005g:76105**
Cheremnykh, O. K. *see* **Akimenko, V. V., 2005i:76039**
Cimmelli, V. A. (*with* Oliveri, Francesco; Pace, A. R.) Thermo-electrodynamics of rigid superconductors. (English summary) **2005i:82063**
Cui, Jun Zhi *see* **Li, Youyun, 2005c:74064**
Deshmukh, K. C. *see* **Meshram, S. A.**
Dogan, Abdulkadir (*with* Kaplan, Yuksel; Veziroglu, T. Nejat) Numerical investigation of heat and mass transfer in a metal hydride bed. (English summary) **2005f:80016**
Dreyer, Wolfgang (*with* Herrmann, Michael; Kunik, Matthias) Kinetic solutions of the Boltzmann-Peierls equation and its moment systems. (English summary) **2005f:82120**
Efendiev, Messoud A. (*with* Miranville, Alain) New models of Cahn-Hilliard-Gurtin equations. (English summary) **2005e:74002**
El-Amin, M. F. Double dispersion effects on natural convection heat and mass transfer in non-Darcy porous medium. (English summary)
Elbarbary, Elsayed M. E. M. *see* **El-Dabe, Nabile T. M. et al., 2005g:76085**
Elbashbeshy, E. M. A. (*with* Bazid, M. A. A.) The effect of temperature-dependent viscosity on heat transfer over a continuous moving surface with variable internal heat generation. (English summary) **2005e:76036**
— (*with* Bazid, M. A. A.) Heat transfer in a porous medium over a stretching surface with internal heat generation and suction or injection. (English summary) **2005g:76117**
El-Dabe, Nabile T. M. (*with* Elshehawey, E. F.; Elbarbary, Elsayed M. E. M.; Elgazery, Nasser S.) Chebyshev finite difference method for MHD flow of a micropolar fluid past a stretching sheet with heat transfer. (English summary) **2005g:76085**
Elgazery, Nasser S. *see* **El-Dabe, Nabile T. M. et al., 2005g:76085**
El-Mansi, Samy M. A. *see* **Abd-El-Malek, Mina B. et al., 2005d:35010**
Elshehawey, E. F. *see* **El-Dabe, Nabile T. M. et al., 2005g:76085**
Ern, Alexandre (*with* Guermond, Jean-Luc) Accurate numerical simulation of radiative heat transfer with application to crystal growth. (English summary) **2005e:80010**
Ferragut, L. *see* **Asensio Sevilla, María Isabel et al., 2005k:76123**
Fetecău, Constantin *see* **Fetecău, Corina, 2005b:76008**
Fetecău, Corina (*with* Fetecău, Constantin) Influence of internal friction on heat propagation in a shearing flow of a second grade fluid. (English summary) **2005b:76008**
Forest, M. Gregory *see* **Zhou, Hong[5], 2005m:65187**
Garg, Atul *see* **Singh, Yashwant**
Giga, Yoshikazu (*with* Rybka, Piotr) Existence of self-similar evolution of crystals grown from supersaturated vapor. (English summary) **2005i:35296**
Gordon, Peter V. (*with* Ryzhik, Leonid; Vladimirova, Natalia) The KPP system in a periodic flow with a heat loss. (English summary) **2005i:35141**
Gouin, Henri Thermocapillary fluid and adiabatic waves near its critical point. (English summary) (*see* **2005c:00016**)
Gray, L. J. *see* **Berger, J. R. et al., 2005j:35002**
Guermond, Jean-Luc *see* **Ern, Alexandre, 2005e:80010**
Herrmann, Michael *see* **Dreyer, Wolfgang et al., 2005f:82120**
Horgan, Cornelius O. (*with* Quintanilla, R.) Spatial decay of transient end effects for nonstandard linear diffusion problems. (English summary) **2005i:35144**
Janno, Jaan Determination of a time- and space-dependent heat flux relaxation function by means of a restricted Dirichlet-to-Neumann operator. (English summary) **2005e:35249**
Kalliadasis, Serafim *see* **Trevelyan, Philip M. J., 2005c:76086** *and* **2005c:76087**
Kalna, Gabriela (*with* McKee, Sean) The thermostat problem with a nonlocal nonlinear boundary condition. (English summary) **2005d:35141**
Kaplan, Yuksel *see* **Dogan, Abdulkadir et al., 2005f:80016**
Kassoy, D. R. *see* **Staab, P. L. et al., 2005i:76095**
Khusnutdinova, N. V. Theoretical analysis of a model of a thermal boundary layer with drag. (Russian. Russian summary) **2005m:76152**
Kirk, C. M. (*with* Olmstead, W. E.) Blow-up solutions of the two-dimensional heat equation due to a localized moving source. (English summary) **2005j:35101**
Klar, Axel (*with* Thömmes, Guido) Numerical methods for radiative heat transfer

in diffusive regimes and applications to glass manufacturing. (English summary) **2005b:85004**

— *see also* **Larsen, Edward W. et al., 2005c:85008**

Kondrashov, A. V. Properties of certain phase transition fronts in geothermal porous reservoirs. (English summary) **2005k:86009**

Kunik, Matthias *see* **Dreyer, Wolfgang et al., 2005f:82120**

Kuttler, Kenneth L. (*with* Shillor, Meir) Heat conduction with flux condition on a free patch. (English summary) **2005g:35306**

Larsen, Edward W. (*with* Thömmes, Guido; Klar, Axel) New frequency-averaged approximations to the equations of radiative heat transfer. (English summary) **2005c:85008**

Lee, Doo-Sung Nonlinear Kelvin-Helmholtz instability of fluid layers with mass and heat transfer. (English summary) **2005k:76050**

Li, Youyun (*with* Cui, Jun Zhi) Two-scale analysis method for predicting heat transfer performance of composite materials with random grain distribution. (English summary) **2005c:74064**

Lin, Changhao (*with* Payne, Lawrence E.) Continuous dependence of heat flux on spatial geometry for the generalized Maxwell-Cattaneo system. (English summary) **2005j:35092**

López-Pouso, Óscar *see* **Porzio, Maria Michaela, 2005i:45014**

Mantič, V. *see* **Berger, J. R. et al., 2005j:35002**

Martin, Paul Andrew *see* **Berger, J. R. et al., 2005j:35002**

McKee, Sean *see* **Kalna, Gabriela, 2005d:35141**

Meshram, S. A. (*with* Deshmukh, K. C.) Transient heat conduction in a thin circular plate. (English summary)

Michael, Fayez H. *see* **Abd-El-Malek, Mina B. et al., 2005d:35010**

Miranville, Alain *see* **Efendiev, Messoud A., 2005e:74002**

Monakhov, V. N. (*with* Zhidkova, M. I.) Existence theorems for unsteady flows of reacting mixtures. (Russian) **2005j:35178**

Nesenenko, G. A. Singularly perturbed nonstationary heat conduction in domains with movable boundaries. **2005b:35109**

Nguyen Dinh Binh *see* **Nguyen Dinh Tri, 2005g:35307**

Nguyen Dinh Tri (*with* Nguyen Dinh Binh) An implicit two-phase free boundary problem for the heat equation. (English summary) **2005g:35307**

Ochkov, Valery *see* **Solodov, Alexander**

Oliveri, Francesco *see* **Cimmelli, V. A. et al., 2005i:82063**

Olmstead, W. E. *see* **Kirk, C. M., 2005j:35101**

Pace, A. R. *see* **Cimmelli, V. A. et al., 2005i:82063**

Pakdemirli, M. (*with* Sahin, A. Z.) Group classification of fin equation with variable thermal properties. (English summary)

Payne, Lawrence E. (*with* Song, Jong Chul) Spatial decay estimates for the Maxwell-Cattaneo equations with mixed boundary conditions. (English summary) **2005h:35154**

— *see also* **Lin, Changhao, 2005j:35092**

Porzio, Maria Michaela (*with* López-Pouso, Óscar) Application of accretive operators theory to evolutive combined conduction, convection and radiation. (English summary) **2005i:45014**

Quintanilla, R. *see* **Horgan, Cornelius O., 2005i:35144**

Rempe, M. J. *see* **Staab, P. L. et al., 2005i:76095**

Roman, H. Eduardo How does the diffusion equation on fractals look? (English summary) **2005b:35162**

Rybka, Piotr *see* **Giga, Yoshikazu, 2005i:35296**

Ryzhik, Leonid *see* **Gordon, Peter V. et al., 2005i:35141**

Sahin, A. Z. *see* **Pakdemirli, M.**

Sayed-Ahmed, Mohamed Eissa *see* **Attia, Hazem Ali, 2005e:76001**

Senft, James R. Force-linear mechanisms. (English summary) **2005m:70022**

Sengar, Shailja *see* **Singh Chandel, R. C.**

Shadrina, T. V. *see* **Bruno, Alexander D., 2005g:76105**

Shillor, Meir *see* **Kuttler, Kenneth L., 2005g:35306**

Shorten, Paul R. (*with* Wall, David J. N.) Signal restoration after transmission through an advective and diffusive medium. (English summary) **2005g:35301**

Showalter, R. E. (*with* Visarraga, D. B.) Double-diffusion models from a highly-heterogeneous medium. (English summary) **2005e:35019**

Simon, Jacques *see* **Asensio Sevilla, María Isabel et al., 2005k:76123**

Singh, Yashwant (*with* Garg, Atul) Application of generalized prolate spheroidal wave function in a linear flow of heat in an anisotropic material with $\overline{H}$-function. (English summary)

Singh Chandel, R. C. (*with* Sengar, Shailja) A problem on heat conduction in a rod under the Robin condition. (English summary)

Solodov, Alexander (*with* Ochkov, Valery) ★ Differential models.

Song, Jong Chul *see* **Payne, Lawrence E., 2005h:35154**

Staab, P. L. (*with* Rempe, M. J.; Kassoy, D. R.) Acoustic-rotational internal flow caused by transient sidewall mass addition. (English summary) **2005i:76095**

Sultan, Eric (*with* Boudaoud, Arezki; Ben Amar, Martine) Diffusion-limited evaporation of thin polar liquid films. (English summary) **2005i:76012**

Surati, Hema C. (*with* Timol, M. G.) Similarity solutions for heat conduction equation via group theory. (English summary)

Thömmes, Guido *see* **Klar, Axel, 2005b:85004** *and* **Larsen, Edward W. et al., 2005c:85008**

Timofte, Claudia Application of central limit theorems to thermal dispersion in periodic media. (English summary) **2005i:80009**

Timol, M. G. *see* **Surati, Hema C.**

Trevelyan, Philip M. J. (*with* Kalliadasis, Serafim) Dynamics of a reactive falling film at large Péclet numbers. I. Long-wave approximation. (English summary) **2005c:76086**

— (*with* Kalliadasis, Serafim) Dynamics of a reactive falling film at large Péclet numbers. II. Nonlinear waves far from criticality: integral-boundary-layer approximation. (English summary) **2005c:76087**

Turner, Cristina *see* **Barrea, Andrés, 2005b:80004**

Veziroglu, T. Nejat *see* **Dogan, Abdulkadir et al., 2005f:80016**

Visarraga, D. B. *see* **Showalter, R. E., 2005e:35019**

Vladimirova, Natalia *see* **Gordon, Peter V. et al., 2005i:35141**

Volkwein, Stefan Nonlinear conjugate gradient methods for the optimal control of laser surface hardening. (English summary) **2005b:49066**

Wall, David J. N. *see* **Shorten, Paul R., 2005g:35301**

Zakaria, M. Magnetohydrodynamic viscoelastic boundary layer flow past a stretching plate and heat transfer. (English summary) **2005b:76143**

Zhidkova, M. I. *see* **Monakhov, V. N., 2005j:35178**

Zhou, Hong[5] (*with* Forest, M. Gregory) A numerical study of unsteady, thermal, glass fiber drawing processes. (English summary) **2005m:65187**

80A22 Stefan problems, phase changes, etc. [see also 74Nxx]

Ahnert, F. (*with* Kikstra, J. F.; Colonna, P.) Modeling of a large scale evaporator with moving phase boundaries. (English summary) (*see* **2005b:65003**)

Alexandre, Radjesvarane (*with* Pham Ngoc Dinh, Alain; Chaljub-Simon, Alice; Nguyen Thanh Long) A mathematical model for the evaporation of a liquid fuel droplet inside an infinite vessel. (English summary) **2005b:80003**

Alexiades, V. *see* **Hannoun, N. et al.**

Andrushkiw, R. (*with* Gafiĭchuk, V. V.) Equations of interface dynamics for quasi-stationary Stefan problem. (English summary) **2005k:80004**

Barrea, Andrés (*with* Turner, Cristina) Time estimates for the phase-change process in a material with a perfect thermal contact boundary condition. (English summary) **2005b:80004**

Beneš, Michal On a phase-field model with advection. (English summary) (*see* **2005j:65003**)

Bonfanti, Giovanna (*with* Luterotti, Fabio) Convergence results for a phase transition model with vanishing microscopic acceleration. (English summary) **2005b:80005**

Bousquet-Melou, P. *see* **Goyeau, B. et al., 2005m:80003**

Caflisch, Russel E. *see* **Gibou, Frédéric et al., 2005d:80005**

Capasso, Vincenzo *see* **Escobedo, Ramón, 2005j:80002**

Celestini, Franck *see* **Debierre, Jean-Marc et al., 2005a:80006**

Chaljub-Simon, Alice *see* **Alexandre, Radjesvarane et al., 2005b:80003**

Colonna, P. *see* **Ahnert, F. et al., (2005b:65003)**

Connell, Cameron R. Coarsening of step bunches in step flow growth: a reaction-diffusion model and its travelling wave solutions. (English summary) **2005e:80002**

Danilov, D. A. *see* **Galenko, P. K., 2005g:80009**

Debierre, Jean-Marc (*with* Karma, Alain; Celestini, Franck; Guérin, Rahma) Phase-field approach for faceted solidification. (English summary) **2005a:80006**

Degorce, Jean-Yves *see* **Saucier, Antoine et al., 2005k:80007**

De Schepper, Hennie *see* **Slodička, Marián, 2005h:80008**

Dirr, Nicolas A Stefan problem with surface tension as the sharp interface limit of a nonlocal system of phase-field type. (English summary) **2005b:80006**

Escobedo, Ramón (*with* Capasso, Vincenzo) Moving bands and moving boundaries with decreasing speed in polymer crystallization. (English summary) **2005j:80002**

Fedkiw, Ronald *see* **Gibou, Frédéric et al., 2005d:80005**

Fichot, F. *see* **Goyeau, B. et al., 2005m:80003**

Fitt, Alistair D. (*with* Ockendon, J. R.; Please, Colin P.) Free boundary problems in the steel industry. (English summary) **2005g:80008**

Fujisaka, Hirokazu *see* **Ouchi, Katsuya, 2005k:80006**

Gafiĭchuk, V. V. *see* **Andrushkiw, R., 2005k:80004**

Galenko, P. K. (*with* Danilov, D. A.) Linear morphological stability analysis of the solid-liquid interface in rapid solidification of a binary system. (English summary) **2005g:80009**

Garcke, Harald (*with* Styles, Vanessa) Bi-directional diffusion induced grain boundary motion with triple junctions. (English summary) **2005h:80006**

Gatti, Stefania[2] (*with* Sartori, Elena) Phase field systems with memory effects in the order parameter dynamics: convergence to standard phase field systems. (English summary) **2005h:80007**

— (*with* Sartori, Elena) Well-posedness results for phase field systems with memory effects in the order parameter dynamics. (English summary) **2005c:80006**

Gibou, Frédéric (*with* Fedkiw, Ronald; Caflisch, Russel E.; Osher, Stanley) A level set approach for the numerical simulation of dendritic growth. (English summary) **2005d:80005**

Gobin, D. *see* **Goyeau, B. et al., 2005m:80003**

Goyeau, B. (*with* Bousquet-Melou, P.; Gobin, D.; Quintard, M.; Fichot, F.) Macroscopic modeling of columnar dendritic solidification. (English summary) **2005m:80003**

Guérin, Rahma *see* **Debierre, Jean-Marc et al., 2005a:80006**

Hannoun, N. (*with* Alexiades, V.; Mai, T. Z.) A reference solution for phase change with convection. (English summary)

Ivanova, A. N. (*with* Kuchanov, S. I.; Manevich, L. I.) Bifurcation analysis for the construction of a phase diagram of heteropolymer liquids. (English summary) **2005k:80005**

Karma, Alain *see* **Debierre, Jean-Marc et al., 2005a:80006**

Kikstra, J. F. *see* **Ahnert, F. et al., (2005b:65003)**

Klein, Olaf (*with* Philip, Peter; Sprekels, Jürgen) Modeling and simulation of sublimation growth of SiC bulk single crystals. (English summary) **2005e:80003**

Kohn, Robert V. (*with* Yan, Xiaodong) Coarsening rates for models of multicomponent phase separation. (English summary) **2005f:80004**

Kuchanov, S. I. *see* **Ivanova, A. N. et al., 2005k:80005**

Li, Bo[1] (*with* Rätz, Andreas; Voigt, Axel) Stability of a circular epitaxial island. (English summary) **2005g:80010**

Liu, Zhihong (*with* Wan, Richard; Muldrew, Ken; Sawchuk, Stephen; Rewcastle, John) A level set variational formulation for coupled phase change/mass transfer problems: application to freezing of biological systems. (English summary) **2005b:80007**

Luterotti, Fabio *see* **Bonfanti, Giovanna, 2005b:80005**

Mai, T. Z. *see* **Hannoun, N. et al.**

Manevich, L. I. *see* **Ivanova, A. N. et al., 2005k:80005**

Mariano, Paolo Maria Some thermodynamical aspects of the solidification of two-phase flows. (English summary) **2005e:80004**

Meunier, Michel *see* **Saucier, Antoine et al., 2005k:80007**

Morris, S. J. S. Heat flow near the triple junction of an evaporating meniscus and a substrate. (English summary) **2005e:80005**

Muldrew, Ken *see* **Liu, Zhihong et al., 2005b:80007**

Nguyen Thanh Long *see* **Alexandre, Radjesvarane et al., 2005b:80003**
Ockendon, J. R. *see* **Fitt, Alistair D. et al., 2005g:80008**
Ohm, Mi-Ray Existence and uniqueness of the solution for linear Stefan problem with a forcing term. (English summary)
Osher, Stanley *see* **Gibou, Frédéric et al., 2005d:80005**
Ouchi, Katsuya (*with* Fujisaka, Hirokazu) Domain dynamics in the anisotropic Swift-Hohenberg equation. (English summary) **2005k:80006**
Pham Ngoc Dinh, Alain *see* **Alexandre, Radjesvarane et al., 2005b:80003**
Philip, Peter *see* **Klein, Olaf et al., 2005e:80003**
Please, Colin P. *see* **Fitt, Alistair D. et al., 2005g:80008**
Popovici, Constantin I. The numerical solution of the free boundary problem of electrodiffusion in a bipolar membrane (the diode semiconductor). (English summary) **2005e:80006**
Quintard, M. *see* **Goyeau, B. et al., 2005m:80003**
Rätz, Andreas *see* **Li, Bo[1] et al., 2005g:80010**
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Sartori, Elena *see* **Gatti, Stefania[2], 2005c:80006** *and* **2005h:80007**
Saucier, Antoine (*with* Degorce, Jean-Yves; Meunier, Michel) Analytical solutions of a growth model for a melt region induced by a focused laser beam. (English summary) **2005k:80007**
Sawchuk, Stephen *see* **Liu, Zhihong et al., 2005b:80007**
Schimperna, Giulio (*with* Stefanelli, Ulisse) A quasi-stationary phase-field model with micro-movements. (English summary) **2005b:80008**
Slodička, Marián (*with* De Schepper, Hennie) Determination of the heat-transfer coefficient during solidification of alloys. (English summary) **2005h:80008**
Smith, Warren R. The propagation and basal solidification of two-dimensional and axisymmetric viscous gravity currents. (English summary) **2005m:80004**
Sprekels, Jürgen *see* **Klein, Olaf et al., 2005e:80003**
Stefanelli, Ulisse *see* **Schimperna, Giulio, 2005b:80008**
Styles, Vanessa *see* **Garcke, Harald, 2005h:80006**
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Voigt, Axel *see* **Li, Bo[1] et al., 2005g:80010**
Wan, Richard *see* **Liu, Zhihong et al., 2005b:80007**
Xu, Jian Jun[1] Dynamics of dendritic growth interacting with convective flow. (English summary) **2005d:80006**
Yan, Xiaodong *see* **Kohn, Robert V., 2005f:80004**

Items with secondary classifications in 80A22

Abdallah, Jalel Ben *see* **Alves, Carlos J. S. et al., 2005h:74024**
Aizicovici, Sergiu (*with* Petzeltová, Hana) Convergence of solutions of phase-field systems with a nonconstant latent heat. (English summary) **2005j:35219**
Albu, A. F. (*with* Zubov, Vladimir Ivanovich[2]) Modeling and optimization of melting and solidification process. (English summary)
Alikakos, Nicholas D. (*with* Fusco, Giorgio; Karali, Georgia) Motion of bubbles towards the boundary for the Cahn-Hilliard equation. (English summary) **2005m:35137**
— (*with* Fusco, Giorgio; Karali, Georgia) Ostwald ripening in two dimensions—the rigorous derivation of the equations from the Mullins-Sekerka dynamics. (English summary) **2005h:35370**
Alves, Carlos J. S. (*with* Abdallah, Jalel Ben; Jaoua, Mohamed) Recovery of cracks using a point-source reciprocity gap function. (English summary) **2005h:74024**
Barrett, John W.[1] (*with* Nürnberg, Robert) Finite element approximation of a Stefan problem with degenerate Joule heating. (English summary) **2005g:80014**
Beckermann, C. *see* **Sun, Ying[3], 2005f:76103**
Belhamadia, Youssef (*with* Fortin, André; Chamberland, Éric) Anisotropic mesh adaptation for the solution of the Stefan problem. (English summary) **2005k:80013**
— (*with* Fortin, André; Chamberland, Éric) Three-dimensional anisotropic mesh adaptation for phase change problems. (English summary) **2005j:80006**
Belmiloudi, Aziz Robust and optimal control problems to a phase-field model for the solidification of a binary alloy with a constant temperature. (English summary) **2005h:49007**
Bessonov, N. (*with* Pojman, J. A.; Vol′pert, Vit. A.) Modelling of miscible liquids and microgravity experiments. (English summary) **2005g:76046**
Bizhanova, G. I. On exact solutions of one-dimensional diffusion problems with free boundaries for parabolic equations. (Russian. English and Russian summaries) **2005j:35225**
Boldrini, José Luiz (*with* Vaz, Cristina Lúcia Dias) Existence and regularity of solutions of a phase field model for solidification with convection of pure materials in two dimensions. (English summary) **2005b:35302**
— (*with* da Silva, Patrícia Nunes) A generalized solution to a Cahn-Hilliard/Allen-Cahn system. (English summary) **2005h:35187**
— *see also* **Planas, Gabriela, 2005h:35177** *and* **2005k:35407**
Chamberland, Éric *see* **Belhamadia, Youssef et al., 2005j:80006** *and* **2005k:80013**
Chandra, Sanjay *see* **Verma, Anil Kumar et al., 2005g:80016**
Chtcheritsa, O. V. (*with* Mazhorova, O. S.; Popov, Yu. P.) Implicit numerical algorithm for the solution of phase transition problems in multi-component alloys. (English and Lithuanian summaries)
Chuiko, M. M. *see* **Mazhukin, V. I. et al., 2005f:80019**
Colli, Pierluigi (*with* Gilardi, Gianni; Rocca, Elisabetta; Schimperna, Giulio) On a Penrose-Fife phase-field model with nonhomogeneous Neumann boundary conditions for the temperature. (English summary) **2005a:35170**
Colombo, Rinaldo M. (*with* Corli, Andrea) Sonic and kinetic phase transitions with applications to Chapman-Jouguet deflagrations. (English summary) **2005f:35199**
Corli, Andrea *see* **Colombo, Rinaldo M., 2005f:35199**
Després, Bruno (*with* Lagoutière, F.; Ramos, David) Stability of a thermodynamically coherent multiphase model. (English summary) **2005d:35162**
Dhindaw, B. K. *see* **Verma, Anil Kumar et al., 2005g:80016**
Eck, Christof Homogenization of a phase field model for binary mixtures. (English summary) **2005k:35015**
— Analysis of a two-scale phase field model for liquid-solid phase transitions with equiaxed dendritic microstructure. (English summary) **2005j:35007**
Escher, Joachim (*with* Prüss, Jan; Simonett, Gieri) Analytic solutions for a Stefan problem with Gibbs-Thomson correction. (English summary) **2005b:35304**
Feng, Xiaobing (*with* Prohl, Andreas) Analysis of a fully discrete finite element method for the phase field model and approximation of its sharp interface limits. (English summary) **2005b:74115**
Fortin, André *see* **Belhamadia, Youssef et al., 2005j:80006** *and* **2005k:80013**
Frankel, Michael (*with* Roytburd, Victor) Finite dimensional attractor for a one-phase Stefan problem with kinetics. (English summary) **2005c:37152**
Fukao, Takesi (*with* Kenmochi, Nobuyuki; Pawłow, Irena) Transmission-Stefan problems arising in Czochralski process of crystal growth. (English summary) **2005c:35300**
Fusco, Giorgio *see* **Alikakos, Nicholas D. et al., 2005h:35370** *and* **2005m:35137**
Gatti, Stefania[2] (*with* Grasselli, Maurizio; Pata, Vittorino) Exponential attractors for a conserved phase-field system with memory. (English summary) **2005a:37151**
Giga, Yoshikazu (*with* Rybka, Piotr) Stability of facets of self-similar motion of a crystal. (English summary) **2005m:35316**
Gilardi, Gianni *see* **Colli, Pierluigi et al., 2005a:35170**
Golovin, Alexander A. *see* **Nepomnyashchy, Alexander A. et al., 2005g:93058**
Górka, Przemysław Critical size of crystals in the plane. (English summary) **2005j:35228**
Grasselli, Maurizio (*with* Pata, Vittorino) On the dissipativity of a hyperbolic phase-field system with memory. (English summary) **2005b:37186**
— (*with* Pata, Vittorino) Phase-field systems with memory effects in the order parameter dynamics. **2005j:74048**
— (*with* Pata, Vittorino; Vegni, Federico Mario) Longterm dynamics of a conserved phase-field system with memory. (English summary) **2005b:37187**
— (*with* Pata, Vittorino) Asymptotic behavior of a parabolic-hyperbolic system. (English summary) **2005h:35150**
— (*with* Pata, Vittorino) Existence of a universal attractor for a fully hyperbolic phase-field system. (English summary) **2005m:37191**
— (*with* Pata, Vittorino) Attractor for a conserved phase-field system with hyperbolic heat conduction. (English summary) **2005h:45012**
— *see also* **Gatti, Stefania[2] et al., 2005a:37151**
Gubareva, V. *see* **Nepomnyashchy, Alexander A. et al., 2005g:93058**
Gupta, Sushil Chandra ★ The classical Stefan problem. **2005i:35297**
Hanada, Takao (*with* Ishimura, Naoyuki; Nakamura, Masaaki) On the Eguchi-Oki Matsumura equation for phase separation in one space dimension. (English summary) **2005j:35005**
Heinrich, J. C. *see* **Zhao, Pinghua et al., 2005g:80015**
Hilhorst, D. (*with* Issard-Roch, Françoise; Roquejoffre, Jean-Michel) Large time behavior of the solutions to a one-dimensional Stefan problem with a kinetic condition at the free boundary. (English summary) **2005g:35304**
Ishimura, Naoyuki *see* **Hanada, Takao et al., 2005j:35005**
Issard-Roch, Françoise *see* **Hilhorst, D. et al., 2005g:35304**
Jaoua, Mohamed *see* **Alves, Carlos J. S. et al., 2005h:74024**
Karali, Georgia *see* **Alikakos, Nicholas D. et al., 2005h:35370** *and* **2005m:35137**
Kenmochi, Nobuyuki *see* **Fukao, Takesi et al., 2005c:35300**
Kessler, Daniel (*with* Scheid, Jean-François; Schimperna, Giulio; Stefanelli, Ulisse) Study of a system for the isothermal separation of components in a binary alloy with change of phase. (English summary) **2005c:35149**
Lagoutière, F. *see* **Després, Bruno et al., 2005d:35162**
Lapanik, A. M. *see* **Mazhukin, V. I. et al., 2005f:80019**
Ławrynowicz, Julian (*with* Suzuki, Osamu) From order-disorder surface phenomena to graded fractal bundles related to complex and Pauli structures. (English and Polish summaries) **2005h:82064**
Lee, Hyun Young A discrete finite element Galerkin method for a unidimensional single-phase Stefan problem. (English summary) **2005i:65144**
Lee, Joung Nam *see* **Yang, Young-Kyun, 2005a:76078**
Liu, Ru Xun (*with* Liu, Xiao Ping; Zhang, Lei; Wang, Zhi Feng[1]) Tracking and reconstruction methods for moving-interfaces. (Chinese. English and Chinese summaries) **2005d:65155**
Liu, Xiao Ping *see* **Liu, Ru Xun et al., 2005d:65155**
Marcus, Eduardo Adrian Santillan (*with* Tarzia, Domingo A.) Exact solutions for drying with coupled phase-change in a porous medium with a heat flux condition on the surface. (English summary) **2005j:35229**
Mazhorova, O. S. *see* **Chtcheritsa, O. V. et al.**
Mazhukin, V. I. (*with* Chuiko, M. M.; Lapanik, A. M.) Dynamic adaptation method for numerical solution of axisymmetric Stefan problems. (English and Lithuanian summaries) **2005f:80019**
Minchev, Emil On a system of nonlinear PDE's for phase transitions with vector order parameter. (English summary) **2005f:35139**
— On a system of nonlinear PDE's for phase transitions with vector order parameter and convective effect. (English summary) **2005i:35299**
Miranville, Alain (*with* Zelik, S. V.) Exponential attractors for the Cahn-Hilliard equation with dynamic boundary conditions. (English summary) **2005k:37183**
Murakawa, Hideki (*with* Nakaki, Tatsuyuki) A singular limit method for the Stefan problems. (English summary) (*see* **2005j:65003**)
Nakaki, Tatsuyuki *see* **Murakawa, Hideki, (2005j:65003)**
Nakamura, Masaaki *see* **Hanada, Takao et al., 2005j:35005**
Nepomnyashchy, Alexander A. (*with* Golovin, Alexander A.; Gubareva, V.; Panfilov, V.) Global feedback control of a long-wave morphological instability. (English summary) **2005g:93058**
Niethammer, Barbara (*with* Velázquez, J. J. L.) Homogenization in coarsening systems. I Deterministic case. (English summary) **2005f:35027**
Nürnberg, Robert *see* **Barrett, John W.[1], 2005g:80014**
Omel′yanov, G. A. (*with* Rudnev, V. Yu.) Interaction of free boundaries in the modified Stefan problem. (English summary)
Omrani, Khaled On the numerical approach of the enthalpy method for the Stefan problem (English summary) **2005b:80012**
Osaki, Koichi (*with* Takei, Yasuhiro; Tsujikawa, Tohru) Global solution to a reaction diffusion phase transition system in $\mathbb{R}^2$. (English summary) **2005h:35153**
Panfilov, V. *see* **Nepomnyashchy, Alexander A. et al., 2005g:93058**

Pata, Vittorino *see* **Gatti, Stefania[2] et al., 2005a:37151; Grasselli, Maurizio et al., 2005b:37186; 2005b:37187; 2005h:35150; 2005h:45012; 2005j:74048** *and* **2005m:37191**
Pawłow, Irena *see* **Fukao, Takesi et al., 2005c:35300**
Petzeltová, Hana *see* **Aizicovici, Sergiu, 2005j:35219**
Planas, Gabriela (*with* Boldrini, José Luiz) Weak solutions of a phase-field model with convection for solidification of an alloy. (English summary) **2005h:35177**
— (*with* Boldrini, José Luiz) A bidimensional phase-field model with convection for change phase of an alloy. (English summary) **2005k:35407**
Poirier, D. R. *see* **Zhao, Pinghua et al., 2005g:80015**
Pojman, J. A. *see* **Bessonov, N. et al., 2005g:76046**
Popov, Yu. P. *see* **Chtcheritsa, O. V. et al.**
Prohl, Andreas *see* **Feng, Xiaobing, 2005b:74115**
Prüss, Jan *see* **Escher, Joachim et al., 2005b:35304**
Radkevich, E. V. (*with* Zakharchenko, M.) On the singular-limit problem for the extended Cahn-Hilliard model. (Russian. Russian summary) **2005g:35309**
Ramos, David *see* **Després, Bruno et al., 2005d:35162**
Rätz, Andreas (*with* Voigt, Axel) Phase-field model for island dynamics in epitaxial growth. (English summary) **2005g:35310**
Rebelo, Paulo (*with* Smirnov, G. V.) Uniform cooling of alloys. (English summary) **2005m:35131**
Recupero, Vincenzo On a model of phase relaxation for the hyperbolic Stefan problem. (English summary) **2005h:35376**
Rocca, Elisabetta (*with* Schimperna, Giulio) Universal attractor for some singular phase transition systems. (English summary) **2005d:37164**
— *see also* **Colli, Pierluigi et al., 2005a:35170**
Roquejoffre, Jean-Michel *see* **Hilhorst, D. et al., 2005g:35304**
Rossi, Riccarda Well-posedness and asymptotic analysis for a Penrose-Fife type phase field system. (English summary) **2005d:35123**
Roytburd, Victor *see* **Frankel, Michael, 2005c:37152**
Rudnev, V. Yu. *see* **Omel'yanov, G. A.**
Rybka, Piotr *see* **Giga, Yoshikazu, 2005m:35316**
Scheid, Jean-François *see* **Kessler, Daniel et al., 2005c:35149**
Schimperna, Giulio *see* **Colli, Pierluigi et al., 2005a:35170; Kessler, Daniel et al., 2005c:35149** *and* **Rocca, Elisabetta, 2005d:37164**
Segatti, Antonio Error estimates for a variable time-step discretization of a phase transition model with hyperbolic momentum. (English summary) **2005k:65189**
Shimizu, Junichiro *see* **Xu, Jian Jun[1], 2005e:82080** *and* **2005g:82095**
da Silva, Patrícia Nunes *see* **Boldrini, José Luiz, 2005h:35187**
Simonett, Gieri *see* **Escher, Joachim et al., 2005b:35304**
Smirnov, G. V. *see* **Rebelo, Paulo, 2005m:35131**
Stefanelli, Ulisse *see* **Kessler, Daniel et al., 2005c:35149**
Su, Jianzhong (*with* Tran, Bao Loc) Axisymmetric three-dimensional finger solutions in Mullins-Sekerka equation. (English summary) **2005c:35133**
Sun, Ying[3] (*with* Beckermann, C.) Diffuse interface modeling of two-phase flows based on averaging: mass and momentum equations. (English summary) **2005f:76103**
Suzuki, Osamu *see* **Ławrynowicz, Julian, 2005h:82064**
Takei, Yasuhiro *see* **Osaki, Koichi et al., 2005h:35153**
Tarzia, Domingo A. *see* **Marcus, Eduardo Adrian Santillan, 2005j:35229**
Tran, Bao Loc *see* **Su, Jianzhong, 2005c:35133**
Tsujikawa, Tohru *see* **Osaki, Koichi et al., 2005h:35153**
Tudorascu, Adrian One-phase Stefan problems; a mass transfer approach. (English summary) **2005f:35338**
Vaz, Cristina Lúcia Dias *see* **Boldrini, José Luiz, 2005b:35302**
Vegni, Federico Mario *see* **Grasselli, Maurizio et al., 2005b:37187**
Velázquez, J. J. L. *see* **Niethammer, Barbara, 2005f:35027**
Verma, Anil Kumar (*with* Chandra, Sanjay; Dhindaw, B. K.) An alternative fixed grid method for solution of the classical one-phase Stefan problem. (English summary) **2005g:80016**
Voigt, Axel *see* **Rätz, Andreas, 2005g:35310**
Vol'pert, Vit. A. *see* **Bessonov, N. et al., 2005g:76046**
Wang, Zhi Feng[1] *see* **Liu, Ru Xun et al., 2005d:65155**
Wanner, Thomas Maximum norms of random sums and transient pattern formation. (English summary) **2005a:35146**
Xu, Jian Jun[1] (*with* Shimizu, Junichiro) Asymptotic theory for disc-like crystal growth. II. Interfacial instability and pattern formation at early stage of growth. (English summary) **2005g:82095**
— (*with* Shimizu, Junichiro) Asymptotic theory for disc-like crystal growth. I. Basic state solutions. (English summary) **2005e:82080**
Yang, Young-Kyun (*with* Lee, Joung Nam) On the structure of a mush. (English summary) **2005a:76078**
Yi, Fahuai Global classical solution of quasi-stationary Stefan free boundary problem. (English summary) **2005h:35377**
Zakharchenko, M. *see* **Radkevich, E. V., 2005g:35309**
Zelik, S. V. *see* **Miranville, Alain, 2005k:37183**
Zhang, Lei *see* **Liu, Ru Xun et al., 2005d:65155**
Zhao, Pinghua (*with* Heinrich, J. C.; Poirier, D. R.) Fixed mesh front-tracking methodology for finite element simulations. (English summary) **2005g:80015**
Zubov, Vladimir Ivanovich[2] *see* **Albu, A. F.**

80A23 Inverse problems

Antonov, V. I. Determination of the generalized angular coefficients for cylindrical surfaces. (Russian) **2005j:80003**
Masood, Khalid (*with* Zaman, F. D.) Initial inverse problem in a two-layer heat conduction model. (English and Arabic summaries) **2005c:80007**
Zaman, F. D. *see* **Masood, Khalid, 2005c:80007**

Items with secondary classifications in 80A23

Alifanov, O. M. (*with* Nenarokomov, A. V.; Budnik, S. A.; Michailov, V. V.; Ydin, V. M.) Identification of thermal properties of materials with applications for spacecraft structures. (English summary) **2005f:35125**
Alvarez Acevedo, Nancy I. (*with* Roberty, Nilson C.; Silva Neto, Antônio J.) A one-dimensional inverse radiative transfer problem with time-varying boundary conditions. (English summary) **2005b:35286**
Budnik, S. A. *see* **Alifanov, O. M. et al., 2005f:35125**
Cavaterra, Cecilia (*with* Colombo, Fabrizio) Identifying a heat source in automatic control problems. (English summary) **2005c:93027**
Colombo, Fabrizio *see* **Cavaterra, Cecilia, 2005c:93027**
Dang Duc Trong *see* **Quan, Pham Hoang, 2005k:35140**
De Oliveira, Alexandre P. (*with* Orlande, Helcio R. B.) Estimation of the heat flux at the surface of ablating materials by using temperature and surface position measurements. (English summary) **2005e:35242**
De Schepper, Hennie *see* **Slodička, Marián, 2005h:80008**
Fredman, Tom P. Identification of boundary movement from internal measurements. (English summary) (*see* **2005b:65003**)
Hon, Yiu-Chung (*with* Wei, Ting) The method of fundamental solution for solving multidimensional inverse heat conduction problems. (English summary)
Khobragade, N. W. (*with* Wankhede, P. C.) An inverse unsteady-state problem of thermoelastic deformation of a finite length hollow cylinder. II. (English summary) **2005c:74018**
— (*with* Wankhede, P. C.) An inverse steady-state problem of thermoelastic deformation of a finite length hollow cylinder. III. (English summary) **2005i:74022**
Michailov, V. V. *see* **Alifanov, O. M. et al., 2005f:35125**
Nenarokomov, A. V. *see* **Alifanov, O. M. et al., 2005f:35125**
Orlande, Helcio R. B. *see* **De Oliveira, Alexandre P., 2005e:35242** *and* **Saker, Leonardo F., 2005m:35123**
Quan, Pham Hoang (*with* Dang Duc Trong) Temperature determination from interior measurements: the case of temperature nonlinearly dependent heat source. (English summary) **2005k:35140**
Roberty, Nilson C. *see* **Alvarez Acevedo, Nancy I. et al., 2005b:35286**
Romanovskiĭ, M. R. Identifiability of heat-exchange parameters. (English summary) **2005i:35292**
Saker, Leonardo F. (*with* Orlande, Helcio R. B.) Simultaneous estimation of spatially-dependent mass and heat transfer coefficients of drying bodies. (English summary) **2005m:35123**
Silva Neto, Antônio J. *see* **Alvarez Acevedo, Nancy I. et al., 2005b:35286**
Slodička, Marián (*with* De Schepper, Hennie) Determination of the heat-transfer coefficient during solidification of alloys. (English summary) **2005h:80008**
Wankhede, P. C. *see* **Khobragade, N. W., 2005c:74018** *and* **2005i:74022**
Wei, Ting *see* **Hon, Yiu-Chung**
Ydin, V. M. *see* **Alifanov, O. M. et al., 2005f:35125**

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Adler, Jack (*with* Herbert, D. M.) Smouldering front shapes for steady propagation in a stratified medium. (English summary) **2005f:80005**
Ajadi, Suraju Olusegun Thermal instability in a model chain branching—chain breaking kinetics. (English summary) **2005k:80008**
Al-Refai, Mohammed Existence, uniqueness and bounds for a problem in combustion theory. (English summary) **2005f:80006**
Andreev, I. A. Modeling critical conditions for self-ignition for cylindrical and spherical reactors. (Russian. English and Russian summaries) **2005j:80004**
Bayliss, A. *see* **Park, Jang Hoon et al., 2005j:80005**
Becker, Roland (*with* Braack, Malte; Vexler, Boris) Parameter identification for chemical models in combustion problems. (English summary) **2005m:80005**
Berestycki, Henri (*with* Kagan, Leonid; Kamin, Shoshana; Sivashinsky, Gregory) Metastable behavior of premixed gas flames in rectangular channels. (English summary) **2005m:80006**
Biagioli, Fernando Position, thickness and transport properties of turbulent premixed flames in stagnating flows. (English summary) **2005f:80007**
Blomgren, Peter (*with* Gasner, Scott; Palacios, Antonio) Hopping behavior in the Kuramoto-Sivashinsky equation. (English summary) **2005k:80009**
Boury, Gaël (*with* Cambray, Pierre; Joulin, Guy) Mean cell wavelengths of wrinkled premixed flames in weak gravity fields: spontaneous evolutions. (English summary) **2005h:80009**
Braack, Malte *see* **Becker, Roland et al., 2005m:80005**
Brewster, M. Q. *see* **Jackson, Tom L. et al., 2005f:80013**
Bykov, Viatcheslav (*with* Goldfarb, Igor; Gol'dshtein, Vladimir; Kagan, Leonid; Sivashinsky, Gregory) Effects of hydraulic resistance and heat losses on detonability and flammability limits. (English summary) **2005c:80008**
— (*with* Goldfarb, Igor; Gol'dshtein, Vladimir) On the integral manifold approach to a flame propagation problem: pressure-driven flames in porous media. (English summary) **2005f:80008**
Cambray, Pierre *see* **Boury, Gaël et al., 2005h:80009**
Campos, Daniel (*with* Llebot, Josep Enric; Fort, Joaquim) Reaction-diffusion pulses: a combustion model. (English summary) **2005b:80009**
— *see also* **Fort, Joaquim et al., 2005f:80010**
Clavin, Paul Theory of gaseous detonations. (English summary) **2005f:80009**
Daou, J. *see* **Daou, R. et al., 2005h:80010**
Daou, R. (*with* Daou, J.; Dold, J.) The effect of heat loss on flame edges in a non-premixed counterflow within a thermo-diffusive model. (English summary) **2005h:80010**
Decker, M. A. (*with* Schult, D. A.) Dynamics of smoulder waves near extinction. (English summary) **2005e:80007**
Denet, Bruno Nonlinear model equation for three-dimensional Bunsen flames. (English summary) **2005a:80007**
Dold, J. *see* **Daou, R. et al., 2005h:80010**
Dowling, Ann P. (*with* Morgans, Aimee S.) Feedback control of combustion oscillations. (English summary) (*see* **2005h:76002**)
Drobyshevich, V. I. Mathematical modelling of hybrid combustion waves. (English summary) **2005h:80011**

Fort, Joaquim (*with* Campos, Daniel; González, Josep R.; Velayos, Joaquim) Bounds for the propagation speed of combustion flames. (English summary) **2005f:80010**
— *see also* **Campos, Daniel et al., 2005b:80009**
Fursenko, R. V. On the behavior of the solution of the problem of the propagation of a plane adiabatic flame for large values of activation energy. (Russian. Russian summary) **2005b:80010**
Gasner, Scott *see* **Blomgren, Peter et al., 2005k:80009**
Goldfarb, Igor (*with* Gol′dshtein, Vladimir; Maas, Ulrich) Comparative analysis of two asymptotic approaches based on integral manifolds. (English summary) **2005f:80011**
— (*with* Sazhin, S.; Zinoviev, Ann) Delayed thermal explosion in flammable gas containing fuel droplets: asymptotic analysis. (English summary) **2005h:80012**
— *see also* **Bykov, Viatcheslav et al., 2005c:80008** *and* **2005f:80008**
Gol′dshtein, Vladimir *see* **Bykov, Viatcheslav et al., 2005c:80008**; **2005f:80008** *and* **Goldfarb, Igor et al., 2005f:80011**
González, Josep R. *see* **Fort, Joaquim et al., 2005f:80010**
Gubernov, V. V. (*with* Mercer, G. N.; Sidhu, H. S.; Weber, R. O.) Evans function stability of non-adiabatic combustion waves. (English summary) **2005f:80012**
Herbert, D. M. *see* **Adler, Jack, 2005f:80005**
Jackson, Tom L. (*with* Massa, L.; Brewster, M. Q.) Unsteady combustion modelling of energetic solids, revisited. (English summary) **2005f:80013**
Joulin, Guy *see* **Boury, Gaël et al., 2005h:80009**
Kagan, Leonid (*with* Minaev, S.; Sivashinsky, Gregory) On disintegration of cellular flames. (English summary) **2005h:80013**
— *see also* **Bykov, Viatcheslav et al., 2005c:80008** *and* **Berestycki, Henri et al., 2005m:80006**
Kalliadasis, Serafim *see* **Simon, Peter L. et al., 2005f:80014**
Kamin, Shoshana *see* **Berestycki, Henri et al., 2005m:80006**
Kazakov, Kirill A. On-shell description of stationary flames. (English summary) **2005m:80007**
Lazarovici, A. (*with* Vol′pert, Vit. A.; Merkin, John H.) Steady states, oscillations and heat explosion in a combustion problem with convection. (English summary) **2005i:80005**
Lederman, Claudia (*with* Roquejoffre, Jean-Michel; Wolanski, Noemi) Mathematical justification of a nonlinear integrodifferential equation for the propagation of spherical flames. (English summary) **2005h:80014**
Liu, Yanning *see* **Short, Mark, 2005i:80006**
Llebot, Josep Enric *see* **Campos, Daniel et al., 2005b:80009**
Maas, Ulrich *see* **Goldfarb, Igor et al., 2005f:80011**
Massa, L. *see* **Jackson, Tom L. et al., 2005f:80013**
Matkowsky, B. J. *see* **Park, Jang Hoon et al., 2005j:80005**
McIntosh, A. C. (*with* Weber, R. O.; Mercer, G. N.) Non-adiabatic combustion waves for general Lewis numbers: wave speed and extinction conditions. (English summary) **2005d:80007**
Mercer, G. N. *see* **McIntosh, A. C. et al., 2005d:80007** *and* **Gubernov, V. V. et al., 2005f:80012**
Merkin, John H. *see* **Simon, Peter L. et al., 2005f:80014** *and* **Lazarovici, A. et al., 2005i:80005**
Michaelis, B. (*with* Rogg, B.) FEM-simulation of laminar flame propagation. I. Two-dimensional flames. (English summary) **2005a:80008**
Minaev, S. *see* **Kagan, Leonid et al., 2005h:80013**
Morgans, Aimee S. *see* **Dowling, Ann P., (2005h:76002)**
Palacios, Antonio *see* **Blomgren, Peter et al., 2005k:80009**
Park, Jang Hoon (*with* Bayliss, A.; Matkowsky, B. J.) Dynamics in a rod model of solid flame waves. (English summary) **2005j:80005**
Razani, Abdolrahman On the existence of premixed laminar flames. (English summary) **2005k:80010**
— Existence of Chapman-Jouguet detonation for a viscous combustion model. (English summary) **2005a:80009**
Rogg, B. *see* **Michaelis, B., 2005a:80008**
Roquejoffre, Jean-Michel *see* **Lederman, Claudia et al., 2005h:80014**
Roques, Lionel Existence de deux solutions du type front progressif pour un modèle combustion avec pertes de chaleur. (English and French summaries) [Existence of two travelling wave solutions for a combustion model with heat losses] **2005m:80008**
Sazhin, S. *see* **Goldfarb, Igor et al., 2005h:80012**
Schult, D. A. *see* **Decker, M. A., 2005e:80007**
Scott, Stephen K. *see* **Simon, Peter L. et al., 2005f:80014**
Sharpe, Gary J. (*with* Short, Mark) Shock-induced ignition of thermally sensitive explosives. (English summary) **2005e:80008**
— *see also* **Watt, S. D., 2005d:80008**
Short, Mark (*with* Liu, Yanning) Edge-flame structure and oscillations for unit Lewis numbers in a non-premixed counterflow. (English summary) **2005i:80006**
— *see also* **Sharpe, Gary J., 2005e:80008**
Sidhu, H. S. *see* **Gubernov, V. V. et al., 2005f:80012**
Simon, Peter L. (*with* Scott, Stephen K.; Kalliadasis, Serafim; Merkin, John H.) On the structure of the spectra for a class of combustion waves. (English summary) **2005f:80014**
Sivashinsky, Gregory *see* **Bykov, Viatcheslav et al., 2005c:80008**; **Kagan, Leonid et al., 2005h:80013** *and* **Berestycki, Henri et al., 2005m:80006**
Velayos, Joaquim *see* **Fort, Joaquim et al., 2005f:80010**
Vexler, Boris *see* **Becker, Roland et al., 2005m:80005**
Vol′pert, Vit. A. *see* **Lazarovici, A. et al., 2005i:80005**
Watt, S. D. (*with* Sharpe, Gary J.) One-dimensional linear stability of curved detonations. (English summary) **2005d:80008**
Weber, R. O. *see* **McIntosh, A. C. et al., 2005d:80007** *and* **Gubernov, V. V. et al., 2005f:80012**
Wolanski, Noemi *see* **Lederman, Claudia et al., 2005h:80014**
Zinoviev, Ann *see* **Goldfarb, Igor et al., 2005h:80012**

Items with secondary classifications in 80A25

Abd El-Salam, M. R. (*with* Shehata, M. H.) The numerical solution for reaction-diffusion combustion with fuel consumption. (English summary) **2005f:80017**
Antoniou, Eliana S. (*with* Bechtold, John K.; Matalon, Moshe) A diffusional-thermal theory of near-stoichiometric premixed flames. (English summary) **2005e:80009**
Baconneau, Olivier (*with* van den Berg, Jan Bouwe; Brauner, Claude-Michel; Hulshof, Josephus) Multiplicity and stability of travelling wave solutions in a free boundary combustion-radiation problem. (English summary) **2005c:35288**
Bauwens, Luc *see* **Liang, Zhe et al.**
Bechtold, John K. *see* **Antoniou, Eliana S. et al., 2005e:80009**
van den Berg, Jan Bouwe *see* **Baconneau, Olivier et al., 2005c:35288**
Bohbot, Julien (*with* Zolver, Marc; Klahr, Diego; Torres, Arnaud) Three dimensional modelling of combustion in a direct injection diesel engine using a new unstructured parallel solver. (English summary) (*see* **2005g:65008**)
Braack, Malte (*with* Ern, Alexandre) Coupling multimodelling with local mesh refinement for the numerical computation of laminar flames. (English summary) **2005g:80013**
Brauner, Claude-Michel *see* **Baconneau, Olivier et al., 2005c:35288**
Caffarelli, Luis A. (*with* Lee, Ki-Ahm; Mellet, Antoine) Singular limit and homogenization for flame propagation in periodic excitable media. (English summary) **2005b:35124**
Chen, Gui Qiang (*with* Hoff, David; Trivisa, Konstantina) Analysis on a model for the dynamic combustion of a compressible, reacting fluid. (English summary) **2005a:76164**
Diethelm, Kai (*with* Weilbeer, Marc) A numerical approach for Joulin's model of a point source initiated flame. (English summary) **2005b:80013**
Djebali, Smaïl Traveling wave solutions to a reaction-diffusion system from combustion theory. (English summary) **2005i:34033**
Dkhil, Fathi Travelling wave solutions in a model for filtration combustion. (English summary) **2005c:35155**
Ducrot, Arnaud (*with* Marion, Martine) Two-dimensional travelling wave solutions of a system modelling near equidiffusional flames. (English summary) **2005m:35144**
Ern, Alexandre *see* **Braack, Malte, 2005g:80013**
Fernández Bonder, Julián (*with* Wolanski, Noemi) Uniqueness of limit solutions to a free boundary problem from combustion. (English summary) **2005e:35260**
Galaktionov, V. A. (*with* Williams, John Frederick) Blow-up in a fourth-order semilinear parabolic equation from explosion-convection theory. (English summary) **2005g:35150**
Gaponich, L. S. *see* **Mal′chevskiĭ, I. A. et al.**
Gasser, Ingenuin One-dimensional modelling of tunnel fires. (English summary) **2005g:76103**
Glasman, E. A. (*with* Golovin, Alexander A.; Nepomnyashchy, Alexander A.) Instabilities of wavy patterns governed by coupled Burgers equations. (English summary) **2005i:35244**
Golovin, Alexander A. *see* **Glasman, E. A. et al., 2005i:35244**
Hamel, François (*with* Monneau, Régis; Roquejoffre, Jean-Michel) Stability of travelling waves in a model for conical flames in two space dimensions. (English and French summaries) **2005b:35150**
Hoff, David *see* **Chen, Gui Qiang et al., 2005a:76164**
Hulshof, Josephus (*with* Lorenzi, Luca) Stability in a two-dimensional combustion model. (English summary) **2005g:35305**
— *see also* **Baconneau, Olivier et al., 2005c:35288**
Kagan, Leonid (*with* Minaev, S.; Sivashinsky, Gregory) On self-drifting flame balls. (English summary) **2005d:80009**
Kalliadasis, Serafim *see* **Simon, Peter L. et al., 2005d:80010**
Karlin, V. Estimation of the linear transient growth of perturbations of cellular flames. (English summary) **2005b:76058**
Khastoo, B. *see* **Liang, Zhe et al.**
Klahr, Diego *see* **Bohbot, Julien et al., (2005g:65008)**
Kuz′menko, B. V. *see* **Mal′chevskiĭ, I. A. et al.**
Lee, Ki-Ahm *see* **Caffarelli, Luis A. et al., 2005b:35124**
Liang, Zhe (*with* Khastoo, B.; Bauwens, Luc) Effect of reaction order on stability of planar detonation waves. (English summary)
Lorenzi, Luca Bifurcation of codimension two in a combustion model. (English summary) **2005h:35151**
— *see also* **Hulshof, Josephus, 2005g:35305**
Lyng, Gregory (*with* Zumbrun, Kevin) One-dimensional stability of viscous strong detonation waves. (English summary) **2005f:76061**
Mal′chevskiĭ, I. A. (*with* Kuz′menko, B. V.; Gaponich, L. S.) Gaussian approximations in the stochastic theory of the self-ignition of coal particles. (Russian. English and Ukrainian summaries)
Marion, Martine *see* **Ducrot, Arnaud, 2005m:35144**
Matalon, Moshe *see* **Antoniou, Eliana S. et al., 2005e:80009**
Mellet, Antoine *see* **Caffarelli, Luis A. et al., 2005b:35124**
Merkin, John H. *see* **Simon, Peter L. et al., 2005d:80010**
Minaev, S. *see* **Kagan, Leonid et al., 2005d:80009**
Monneau, Régis *see* **Hamel, François et al., 2005b:35150**
Nepomnyashchy, Alexander A. *see* **Glasman, E. A. et al., 2005i:35244**
Pope, Stephen B. *see* **Tang, Qing, 2005a:80011**
Ramírez, A. F. (*with* Sidoravicius, Vladas) Asymptotic behavior of a stochastic combustion growth process. (English summary) **2005e:60234**
Robinson, James Cooper A coupled particle-continuum model: well-posedness and the limit of zero radius. (English summary) **2005i:35214**
Roquejoffre, Jean-Michel *see* **Hamel, François et al., 2005b:35150**
Scott, Stephen K. *see* **Simon, Peter L. et al., 2005d:80010**
Shah, Akeel (*with* Wake, Graeme) The existence of steady states to a combustion model with internal heating. **2005c:35078**
Shehata, M. H. *see* **Abd El-Salam, M. R., 2005f:80017**
Sidoravicius, Vladas *see* **Ramírez, A. F., 2005e:60234**
Simon, Peter L. (*with* Kalliadasis, Serafim; Merkin, John H.; Scott, Stephen K.) Inhibition of flame propagation by an endothermic reaction. (English summary) **2005d:80010**
Sivashinsky, Gregory *see* **Kagan, Leonid et al., 2005d:80009**
Tang, Qing (*with* Pope, Stephen B.) A more accurate projection in the rate-controlled constrained-equilibrium method for dimension reduction of combustion chemistry (English summary) **2005a:80011**
Torres, Arnaud *see* **Bohbot, Julien et al., (2005g:65008)**
Trivisa, Konstantina *see* **Chen, Gui Qiang et al., 2005a:76164**
Wake, Graeme *see* **Shah, Akeel, 2005c:35078**
Weilbeer, Marc *see* **Diethelm, Kai, 2005b:80013**
Williams, John Frederick *see* **Galaktionov, V. A., 2005g:35150**

Wolanski, Noemi *see* **Fernández Bonder, Julián, 2005e:35260**
Ying, Long An Convergence of a finite difference method for combustion model problems. (English summary) **2005b:80014**
Zolver, Marc *see* **Bohbot, Julien et al., (2005g:65008)**
Zumbrun, Kevin *see* **Lyng, Gregory, 2005f:76061**

80A30 Chemical kinetics [see also 76V05, 92C45, 92E20]

Avetisov, V. A. (*with* Bikulov, A. Kh.; Osipov, V. Al.) *p*-adic models of ultrametric diffusion in the conformational dynamics of macromolecules. (Russian. Russian summary) **2005g:80011**
Bikulov, A. Kh. *see* **Avetisov, V. A. et al., 2005g:80011**
Meliani, Salha (*with* Panasenko, Grigory; Paoli, Laetitia) Étude d'un modèle thermo-chimique de formation d'un matériau composite. (English and French summaries) [Study of a thermo-chemical model of formation of a composite material] **2005m:80009**
Osipov, V. Al. *see* **Avetisov, V. A. et al., 2005g:80011**
Panasenko, Grigory *see* **Meliani, Salha et al., 2005m:80009**
Paoli, Laetitia *see* **Meliani, Salha et al., 2005m:80009**
Tyson, John J. *see* **Zwolak, Jason W. et al., 2005f:80015**
Watson, Layne T. *see* **Zwolak, Jason W. et al., 2005f:80015**
Zwolak, Jason W. (*with* Tyson, John J.; Watson, Layne T.) Finding all steady state solutions of chemical kinetic models. (English summary) **2005f:80015**

Items with secondary classifications in 80A30

Bhattacharya, Kaushik *see* **Jabbour, Michel E., 2005b:74099**
Blesgen, Thomas Existence and uniqueness for a model describing chalcopyrite disease within sphalerite. (English summary) **2005b:35144**
Byrne, Helen M. *see* **Chen, Ching-Yu et al., 2005b:35146**
Chen, Ching-Yu (*with* Byrne, Helen M.; King, John Robert) Mathematical modelling of the oxidation of nickel titanium alloys. (English summary) **2005b:35146**
Cox, Stephen M. Chaotic mixing of a competitive-consecutive reaction. (English summary) **2005g:76065**
Dkhil, Fathi (*with* Logak, E.; Nishiura, Yasumasa) Some analytical results on the Gray-Scott model. (English summary) **2005g:35171**
El-Owaidy, Hassan M. (*with* Moniem, Ashraf A.) On food chain in a chemostat with distinct removal rates. (English summary) **2005c:92024**
Filbet, Francis (*with* Laurençot, Philippe; Perthame, Benoît) Derivation of hyperbolic models for chemosensitive movement. (English summary) **2005m:92006**
Glitzky, A. Electro-reaction-diffusion systems with nonlocal constraints. (English summary) **2005g:35174**
Gottlieb, David (*with* Temam, Roger) Spatial discretization of the dusty gas equations. (English summary) **2005a:76157**
Hinch, R. (*with* Schnell, S.) Mechanism equivalence in enzyme-substrate reactions: distributed differential delay in enzyme kinetics. (English summary) **2005c:92014**
Jabbour, Michel E. (*with* Bhattacharya, Kaushik) A continuum theory of multispecies thin solid film growth by chemical vapor deposition. (English summary) **2005b:74099**
King, John Robert *see* **Chen, Ching-Yu et al., 2005b:35146**
Laurençot, Philippe *see* **Filbet, Francis et al., 2005m:92006**
Levine, R. D. *see* **Remacle, F., 2005g:68037**
Logak, E. *see* **Dkhil, Fathi et al., 2005g:35171**
Malyshev, V. A. (*with* Pirogov, S. A.; Rybko, A. N.) Random walks and chemical networks. (English and Russian summaries) **2005g:90021**
— Fixed points for stochastic open chemical systems. (English summary)
Meliani, Salha (*with* Paoli, Laetitia) Homogenization of a model of cure process for composites. (English summary) **2005c:35020**
— (*with* Panasenko, Grigory) Thermo-chemical modelling of the formation of a composite material. (English summary) **2005m:35148**
Moniem, Ashraf A. *see* **El-Owaidy, Hassan M., 2005c:92024**
Nishiura, Yasumasa *see* **Dkhil, Fathi et al., 2005g:35171**
Panasenko, Grigory *see* **Meliani, Salha, 2005m:35148**
Paoli, Laetitia *see* **Meliani, Salha, 2005c:35020**
Perthame, Benoît *see* **Filbet, Francis et al., 2005m:92006**
Pirogov, S. A. *see* **Malyshev, V. A. et al., 2005g:90021**
Remacle, F. (*with* Levine, R. D.) Quasiclassical computation. (English summary) **2005g:68037**
Rybko, A. N. *see* **Malyshev, V. A. et al., 2005g:90021**
Schnell, S. *see* **Hinch, R., 2005c:92014**
Temam, Roger *see* **Gottlieb, David, 2005a:76157**
Thuraisingham, R. A. A novel method to determine the time series of a second-order chemical reaction in the unstable region of the Euler scheme. (English summary) **2005e:65088**
Wei, Yong Kang *see* **Xiong, Yue Shan**
Xiong, Yue Shan (*with* Wei, Yong Kang) Moving contaminant source model for sediment reaction and dispersion and its analytical solution. (Chinese. English and Chinese summaries)

80A32 Chemically reacting flows [see also 92C45, 92E20]

Antoniou, Eliana S. (*with* Bechtold, John K.; Matalon, Moshe) A diffusional-thermal theory of near-stoichiometric premixed flames. (English summary) **2005e:80009**
Bechtold, John K. *see* **Antoniou, Eliana S. et al., 2005e:80009**
Becker, Roland (*with* Braack, Malte; Vexler, Boris) Numerical parameter estimation for chemical models in multidimensional reactive flows. (English summary) **2005g:80012**
Bhave, Amit (*with* Kraft, Markus) Partially stirred reactor model: analytical solutions and numerical convergence study of a PDF/Monte Carlo method. (English summary) **2005c:80009**
Braack, Malte (*with* Ern, Alexandre) Coupling multimodelling with local mesh refinement for the numerical computation of laminar flames. (English summary) **2005g:80013**
— *see also* **Becker, Roland et al., 2005g:80012**
Desvillettes, Laurent (*with* Monaco, Roberto; Salvarani, F.) A kinetic model allowing to obtain the energy law of polytropic gases in the presence of chemical reactions. (English summary) **2005k:80011**
De Wit, A. *see* **Zadražil, A. et al., 2005k:80012**
D'Hernoncourt, J. *see* **Zadražil, A. et al., 2005k:80012**
Ern, Alexandre *see* **Braack, Malte, 2005g:80013**
Giovangigli, Vincent (*with* Massot, Marc) Entropic structure of multicomponent reactive flows with partial equilibrium reduced chemistry. (English summary) **2005b:80011**
Kagan, Leonid (*with* Minaev, S.; Sivashinsky, Gregory) On self-drifting flame balls. (English summary) **2005d:80009**
Kalliadasis, Serafim *see* **Simon, Peter L. et al., 2005d:80010**
Kiss, I. Z. *see* **Zadražil, A. et al., 2005k:80012**
Kraft, Markus *see* **Bhave, Amit, 2005c:80009**
Massot, Marc *see* **Giovangigli, Vincent, 2005b:80011**
Matalon, Moshe *see* **Antoniou, Eliana S. et al., 2005e:80009**
Merkin, John H. *see* **Simon, Peter L. et al., 2005d:80010** *and* **Zadražil, A. et al., 2005k:80012**
Minaev, S. *see* **Kagan, Leonid et al., 2005d:80009**
Monaco, Roberto *see* **Desvillettes, Laurent et al., 2005k:80011**
Salvarani, F. *see* **Desvillettes, Laurent et al., 2005k:80011**
Scott, Stephen K. *see* **Simon, Peter L. et al., 2005d:80010**
Ševčíková, Hana[1] *see* **Zadražil, A. et al., 2005k:80012**
Simon, Peter L. (*with* Kalliadasis, Serafim; Merkin, John H.; Scott, Stephen K.) Inhibition of flame propagation by an endothermic reaction. (English summary) **2005d:80010**
Sivashinsky, Gregory *see* **Kagan, Leonid et al., 2005d:80009**
Vexler, Boris *see* **Becker, Roland et al., 2005g:80012**
Zadražil, A. (*with* Kiss, I. Z.; D'Hernoncourt, J.; Ševčíková, Hana[1]; Merkin, John H.; De Wit, A.) Effects of constant electric fields on the buoyant stability of reaction fronts. (English summary) **2005k:80012**

Items with secondary classifications in 80A32

de Bortoli, A. L. Mixing and chemical reacting flow simulations inside square cavities. (English summary) **2005h:65129**
Conca, Carlos (*with* Díaz Díaz, Jesús Ildefonso; Liñán, Amable; Timofte, Claudia) Homogenization in chemical reactive flows. (English summary) **2005a:35023**
Conforto, Fiammetta (*with* Jannelli, A.; Monaco, Roberto; Ruggeri, Tommaso) On the Riemann problem for a reacting mixture of gases. (English summary) (*see* **2005c:00016**)
Díaz Díaz, Jesús Ildefonso *see* **Conca, Carlos et al., 2005a:35023**
Frankel, Michael (*with* Roytburd, Victor) Finite dimensional attractor for a one-phase Stefan problem with kinetics. (English summary) **2005c:37152**
— (*with* Roytburd, Victor) On attractors for a sharp interface model of exothermic phase transitions. (English summary) **2005e:37183**
Groppi, Maria (*with* Spiga, Giampiero) A Bhatnagar-Gross-Krook-type approach for chemically reacting gas mixtures. (English summary) **2005f:76088**
Jannelli, A. *see* **Conforto, Fiammetta et al., (2005c:00016)**
Kalliadasis, Serafim *see* **Trevelyan, Philip M. J., 2005c:76086** *and* **2005c:76087**
Koudella, Christophe R. (*with* Neufeld, Zoltán) Reaction front propagation in a turbulent flow. (English summary) **2005j:76053**
Liñán, Amable *see* **Conca, Carlos et al., 2005a:35023** *and* **Vera, Marcos, 2005b:76047**
Luo, K. H. Instabilities, entrainment and mixing in reacting plumes. (English summary)
Lyng, Gregory (*with* Zumbrun, Kevin) A stability index for detonation waves in Majda's model for reacting flow. (English summary) **2005d:35134**
Merz, W. (*with* Rybka, Piotr) A free boundary problem describing reaction-diffusion problems in chemical vapor infiltration of pyrolytic carbon. (English summary) **2005d:35281**
Michaelis, B. (*with* Rogg, B.) FEM-simulation of laminar flame propagation. I. Two-dimensional flames. (English summary) **2005a:80008**
Monaco, Roberto *see* **Conforto, Fiammetta et al., (2005c:00016)**
Motsa, S. S. *see* **Shateyi, S. et al., 2005i:76049**
Neufeld, Zoltán *see* **Koudella, Christophe R., 2005j:76053**
Pomeau, Yves Diffusion and reaction-diffusion in fast cellular flows. (English summary)
Razani, Abdolrahman CJ shock structure for Majda's model. (English summary) **2005k:34056**
Rogg, B. *see* **Michaelis, B., 2005a:80008**
Roytburd, Victor *see* **Frankel, Michael, 2005c:37152** *and* **2005e:37183**
Ruggeri, Tommaso *see* **Conforto, Fiammetta et al., (2005c:00016)**
Rybka, Piotr *see* **Merz, W., 2005d:35281**
Shateyi, S. (*with* Sibanda, P.; Motsa, S. S.) An asymptotic analysis of convection in boundary layer flows in the presence of a chemical reaction. (English summary) **2005i:76049**
Sibanda, P. *see* **Shateyi, S. et al., 2005i:76049**
Spiga, Giampiero *see* **Groppi, Maria, 2005f:76088**
Timofte, Claudia *see* **Conca, Carlos et al., 2005a:35023**
Trevelyan, Philip M. J. (*with* Kalliadasis, Serafim) Dynamics of a reactive falling film at large Péclet numbers. I. Long-wave approximation. (English summary) **2005c:76086**
— (*with* Kalliadasis, Serafim) Dynamics of a reactive falling film at large Péclet numbers. II. Nonlinear waves far from criticality: integral-boundary-layer approximation. (English summary) **2005c:76087**
Vera, Marcos (*with* Liñán, Amable) On the interaction of vortices with mixing layers. (English summary) **2005b:76047**
Zumbrun, Kevin *see* **Lyng, Gregory, 2005d:35134**

80A50 Chemistry (general) [See mainly 92Exx]

Niedzielski, Jan *see* **Turulski, Jan, 2005d:80011**
Scerri, Eric Principles and parameters in physics and chemistry. (English summary) **2005m:80010**
Turulski, Jan (*with* Niedzielski, Jan) Earth's biodiversity as interpreted by a chemist. (English summary) **2005d:80011**

Items with secondary classifications in 80A50

Aregba-Driollet, D. (*with* Diele, Fasma; Natalini, Roberto) A mathematical model for the sulphur dioxide aggression to calcium carbonate stones: numerical approximation and asymptotic analysis. (English summary) **2005g:65120**
Bedeaux, Dick *see* **Kjelstrup, S. et al.**
Diele, Fasma *see* **Aregba-Driollet, D. et al., 2005g:65120**
Edelman, Paul H. (*with* Peterson, S. W.; Reiner, Victor; Stout, J. H.) Geochemical phase diagrams and Gale diagrams. (English summary) **2005b:52026**
Guan, Zhicheng *see* **Yang, Yiqing**
Kjelstrup, S. (*with* Rubi, J. M.; Bedeaux, Dick) Active transport: a kinetic description based on thermodynamic grounds. (English summary)
Natalini, Roberto *see* **Aregba-Driollet, D. et al., 2005g:65120**
Peterson, S. W. *see* **Edelman, Paul H. et al., 2005b:52026**
Reiner, Victor *see* **Edelman, Paul H. et al., 2005b:52026**
Rubi, J. M. *see* **Kjelstrup, S. et al.**
Stout, J. H. *see* **Edelman, Paul H. et al., 2005b:52026**
Yang, Yiqing (*with* Guan, Zhicheng) Existence and uniqueness of classical solutions for the one phase mathematical problem arising in the charge and discharge process of hydride electrode. (English summary)

80A99 None of the above, but in this section

Items with secondary classifications in 80A99

Fang, Ming[1] (*with* Gilbert, Robert P.) Compression molding. I. A generalized non-isothermal, non-Newtonian Hele-Shaw flow. (English summary) **2005a:76065**
Gilbert, Robert P. *see* **Fang, Ming[1], 2005a:76065**
Nishiura, Yasumasa (*with* Suzuki, Hiromasa[1]) Higher dimensional SLEP equation and applications to morphological stability in polymer problems. (English summary) **2005k:35181**
Suzuki, Hiromasa[1] *see* **Nishiura, Yasumasa, 2005k:35181**

80Mxx Basic methods

Items with secondary classifications in 80Mxx

Ochkov, Valery *see* **Solodov, Alexander**
Solodov, Alexander (*with* Ochkov, Valery) ★ Differential models.

80M10 Finite element methods

Bahadır, A. Refik Application of cubic B-spline finite element technique to the termistor problem. (English summary) **2005a:80010**
Barrett, John W.[1] (*with* Nürnberg, Robert) Finite element approximation of a Stefan problem with degenerate Joule heating. (English summary) **2005g:80014**
Belhamadia, Youssef (*with* Fortin, André; Chamberland, Éric) Anisotropic mesh adaptation for the solution of the Stefan problem. (English summary) **2005k:80013**
— (*with* Fortin, André; Chamberland, Éric) Three-dimensional anisotropic mesh adaptation for phase change problems. (English summary) **2005j:80006**
Chamberland, Éric *see* **Belhamadia, Youssef et al., 2005j:80006** *and* **2005k:80013**
Chen, Han-Taw *see* **Liu, Kuo-Chi, 2005i:80007**
Dogan, Abdulkadir (*with* Kaplan, Yuksel; Veziroglu, T. Nejat) Numerical investigation of heat and mass transfer in a metal hydride bed. (English summary) **2005f:80016**
Ern, Alexandre (*with* Guermond, Jean-Luc) Accurate numerical simulation of radiative heat transfer with application to crystal growth. (English summary) **2005e:80010**
Fortin, André *see* **Belhamadia, Youssef et al., 2005j:80006** *and* **2005k:80013**
Fried, Michael Johannes A level set based finite element algorithm for the simulation of dendritic growth. (English summary) **2005c:80010**
Guermond, Jean-Luc *see* **Ern, Alexandre, 2005e:80010**
Heinrich, J. C. *see* **Zhao, Pinghua et al., 2005g:80015**
Kaplan, Yuksel *see* **Dogan, Abdulkadir et al., 2005f:80016**
Liu, Kuo-Chi (*with* Chen, Han-Taw) Numerical analysis for the hyperbolic heat conduction problem under a pulsed surface disturbance. (English summary) **2005i:80007**
Nürnberg, Robert *see* **Barrett, John W.[1], 2005g:80014**
Omrani, Khaled On the numerical approach of the enthalpy method for the Stefan problem. (English summary) **2005b:80012**
Poirier, D. R. *see* **Zhao, Pinghua et al., 2005g:80015**
Veziroglu, T. Nejat *see* **Dogan, Abdulkadir et al., 2005f:80016**
Zhao, Pinghua (*with* Heinrich, J. C.; Poirier, D. R.) Fixed mesh front-tracking methodology for finite element simulations. (English summary) **2005g:80015**

Items with secondary classifications in 80M10

Amara, Mohamed (*with* Capatina-Papaghiuc, Daniela; Denel, B.; Terpolilli, P.) Numerical modelling of flow with heat transfer in petroleum reservoirs. (English summary) **2005i:76100**
Archapitak, J. *see* **Wiwatanapataphee, Benchawan et al., 2005b:65111**
Atluri, Satya N. *see* **Sladek, J. et al.**
Bänsch, Eberhard (*with* Morin, Pedro; Nochetto, Ricardo H.) A finite element method for surface diffusion: the parametric case. (English summary) **2005g:65139**
Bermúdez de Castro, Alfredo Mathematical modelling in industry. (English summary) **2005j:00007**
Burman, Erik (*with* Picasso, Marco; Rappaz, Jacques) Analysis and computation of dendritic growth in binary alloys using a phase-field model. (English summary) **2005k:65200**
Capatina-Papaghiuc, Daniela *see* **Amara, Mohamed et al., 2005i:76100**
Denel, B. *see* **Amara, Mohamed et al., 2005i:76100**
Devine, Karen D. *see* **Shadid, John N. et al.**
Esen, A. *see* **Kutluay, S., 2005i:65143**
Feng, Xiaobing (*with* Prohl, Andreas) Numerical analysis of the Cahn-Hilliard equation and approximation of the Hele-Shaw problem. (English summary) **2005j:35098**
Hennigan, G. L. *see* **Shadid, John N. et al.**
Klar, Axel (*with* Thömmes, Guido) Numerical methods for radiative heat transfer in diffusive regimes and applications to glass manufacturing. (English summary) **2005b:85004**
— *see also* **Larsen, Edward W. et al., 2005c:85008**
Kutluay, S. (*with* Esen, A.) Finite element solution of the thermistor problem with a ramp electrical conductivity. (English summary) **2005i:65143**
Kuzmin, Dmitri (*with* Turek, Stefan) Finite element discretization and iterative solution techniques for multiphase flows in gas-liquid reactors. **2005h:65166**
Larsen, Edward W. (*with* Thömmes, Guido; Klar, Axel) New frequency-averaged approximations to the equations of radiative heat transfer. (English summary) **2005c:85008**
Lee, Hyun Young A discrete finite element Galerkin method for a unidimensional single-phase Stefan problem. (English summary) **2005i:65144**
Lin, P. T. *see* **Shadid, John N. et al.**
Maisse, E. (*with* Pousin, Jérôme) Finite element approximation of mass transfer in a porous medium with non equilibrium phase change. (English summary) **2005g:76078**
Michaelis, B. (*with* Rogg, B.) FEM-simulation of laminar flame propagation. I. Two-dimensional flames. (English summary) **2005a:80008**
Morin, Pedro *see* **Bänsch, Eberhard et al., 2005g:65139**
Nochetto, Ricardo H. *see* **Bänsch, Eberhard et al., 2005g:65139**
Omrani, Khaled On fully discrete Galerkin approximations for the Cahn-Hilliard equation. (English and Lithuanian summaries) **2005i:65147**
Picasso, Marco *see* **Burman, Erik et al., 2005k:65200**
Pousin, Jérôme *see* **Maisse, E., 2005g:76078**
Prohl, Andreas *see* **Feng, Xiaobing, 2005j:35098**
Rappaz, Jacques *see* **Burman, Erik et al., 2005k:65200**
Rogg, B. *see* **Michaelis, B., 2005a:80008**
Samanta, Deep *see* **Zabaras, Nicholas, 2005d:65170**
Schmidt, Alfred A multi-mesh finite element method for 3D phase field simulations. (English summary) **2005a:65106**
Shadid, John N. (*with* Tuminaro, Raymond S.; Devine, Karen D.; Hennigan, G. L.; Lin, P. T.) Performance of fully coupled domain decomposition preconditioners for finite element transport/reaction simulations. (English summary)
Siew, P. F. *see* **Wiwatanapataphee, Benchawan et al., 2005b:65111**
Sladek, J. (*with* Sladek, Valdimir; Atluri, Satya N.) Meshless local Petrov-Galerkin method for heat conduction problem in an anisotropic medium. (English summary)
Sladek, Valdimir *see* **Sladek, J. et al.**
Terpolilli, P. *see* **Amara, Mohamed et al., 2005i:76100**
Thömmes, Guido *see* **Klar, Axel, 2005b:85004** *and* **Larsen, Edward W. et al., 2005c:85008**
Tuminaro, Raymond S. *see* **Shadid, John N. et al.**
Turek, Stefan *see* **Kuzmin, Dmitri, 2005h:65166**
Unyong, B. *see* **Wiwatanapataphee, Benchawan et al., 2005b:65111**
Wiwatanapataphee, Benchawan (*with* Wu, Yong Hong[1]; Archapitak, J.; Siew, P. F.; Unyong B.) A numerical study of the turbulent flow of molten steel in a domain with a phase-change boundary. (English summary) **2005b:65111**
Wu, Yong Hong[1] *see* **Wiwatanapataphee, Benchawan et al., 2005b:65111**
Zabaras, Nicholas (*with* Samanta, Deep) A stabilized volume-averaging finite element method for flow in porous media and binary alloy solidification processes. (English summary) **2005d:65170**

80M15 Boundary element methods

Items with secondary classifications in 80M15

Bermúdez de Castro, Alfredo Mathematical modelling in industry. (English summary) **2005j:00007**
Gray, L. J. *see* **Sutradhar, Alok et al., 2005j:65158**
Paulino, Glaucio H. *see* **Sutradhar, Alok et al., 2005j:65158**
Qatanani, Naji (*with* Schulz, Monika) The heat radiation problem: three-dimensional analysis for arbitrary enclosure geometries. (English summary) **2005f:80003**
Schulz, Monika *see* **Qatanani, Naji, 2005f:80003**
Simões, N. (*with* Tadeu, A.) Analytical versus BEM solutions for transient heat transfer by conduction and convection in 2.5D domains. (English summary) (*see* **2005d:65006**)
Sutradhar, Alok (*with* Paulino, Glaucio H.; Gray, L. J.) On hypersingular surface integrals in the symmetric Galerkin boundary element method: application to heat conduction in exponentially graded materials. (English summary) **2005j:65158**
Tadeu, A. *see* **Simões, N.,** (**2005d:65006**)

80M20 Finite difference methods

Abd El-Salam, M. R. (*with* Shehata, M. H.) The numerical solution for reaction-diffusion combustion with fuel consumption. (English summary) **2005f:80017**
Bürger, Raimund (*with* Karlsen, Kenneth H.; Towers, John D.) Closed-form and finite difference solutions to a population balance model of grinding mills. (English summary) **2005m:80011**
Chandra, Sanjay *see* **Verma, Anil Kumar et al., 2005g:80016**
Chtcheritsa, O. V. (*with* Mazhorova, O. S.; Popov, Yu. P.) Implicit numerical algorithm for the solution of phase transition problems in multi-component alloys. (English and Lithuanian summaries)
Dhindaw, B. K. *see* **Verma, Anil Kumar et al., 2005g:80016**
Diethelm, Kai (*with* Weilbeer, Marc) A numerical approach for Joulin's model of a point source initiated flame. (English summary) **2005b:80013**
Karaa, Samir (*with* Zhang, Jun[2]; Yang, Fuqian) A numerical study of a 3D bioheat transfer problem with different spatial heating. (English summary) **2005m:80012**
Karlsen, Kenneth H. *see* **Bürger, Raimund et al., 2005m:80011**
Mazhorova, O. S. *see* **Chtcheritsa, O. V. et al.**
Murakawa, Hideki (*with* Nakaki, Tatsuyuki) A singular limit method for the Stefan problems. (English summary) (*see* **2005j:65003**)
Nakaki, Tatsuyuki *see* **Murakawa, Hideki,** (**2005j:65003**)

Popov, Yu. P. *see* **Chtcheritsa, O. V. et al.**
Shehata, M. H. *see* **Abd El-Salam, M. R., 2005f:80017**
Towers, John D. *see* **Bürger, Raimund et al., 2005m:80011**
Verma, Anil Kumar (*with* Chandra, Sanjay; Dhindaw, B. K.) An alternative fixed grid method for solution of the classical one-phase Stefan problem. (English summary) **2005g:80016**
Vermolen, Fred J. (*with* Vuik, C.; van der Zwaag, S.) Cross-diffusion controlled particle dissolution in metallic alloys. (English summary) **2005h:80015**
Vuik, C. *see* **Vermolen, Fred J. et al., 2005h:80015**
Weilbeer, Marc *see* **Diethelm, Kai, 2005b:80013**
Yang, Fuqian *see* **Karaa, Samir et al., 2005m:80012**
Ying, Long An Convergence of a finite difference method for combustion model problems. (English summary) **2005b:80014**
Zhang, Jun[2] *see* **Karaa, Samir et al., 2005m:80012**
van der Zwaag, S. *see* **Vermolen, Fred J. et al., 2005h:80015**

Items with secondary classifications in 80M20

Aksenova, A. E. *see* **Chudanov, V. V. et al., (2005c:65004)**
Altundas, Y. B. (*with* Caginalp, G.) Parallel computation of single-needle dendrites in 3D and comparison with microgravity experiment. (English summary) (*see* **2005b:65003**)
Arnau, F. J. *see* **Jerez, S. et al., 2005k:65175**
Asllanaj, Fatmir (*with* Jeandel, Gerard; Roche, Jean Rodolphe) Convergence of a numerical scheme for a nonlinear coupled system of radiative-conductive heat transfer equations. (English summary) **2005g:65158**
Azarenok, Boris N. (*with* Tang, Tao) Second-order Godunov-type scheme for reactive flow calculations on moving meshes. (English summary) **2005k:76086**
Bazdidi-Tehrani, F. (*with* Shahmir, A.; Haghparast-Kashani, A.) Numerical analysis of a single row of coolant jets injected into a heated crossflow. (English summary)
Berezovskii, Arkadii A. (*with* Engelbrecht, Jüri; Maugin, Gérard A.) Numerical simulation of thermoelastic wave and phase-transition front propagation. (English summary) (*see* **2005b:00020**)
Caginalp, G. *see* **Altundas, Y. B., (2005b:65003)**
Chudanov, V. V. (*with* Aksenova, A. E.; Pervichko, V. A.; Vabishchevich, Petr N.) Numerical methods for solving diffusion/convection problems with regard of melting using a fictitious domain procedure. (English summary) (*see* **2005c:65004**)
Čiegis, Raimondas (*with* Iliev, Oleg; Rief, Stefan; Steiner, Konrad) On modeling and simulation of different regimes for liquid polymer moulding. (English summary) **2005h:76004**
Dimova, Stefka *see* **Slavov, Vladimir, (2005f:00011)**
Drobyshevich, V. I. Mathematical modelling of hybrid combustion waves. (English summary) **2005h:80011**
Dubroca, Bruno *see* **Seaïd, Mohammed et al.**
Engelbrecht, Jüri *see* **Berezovskii, Arkadii A. et al., (2005b:00020)**
Fedkiw, Ronald *see* **Gibou, Frédéric, 2005m:65167**
Gaĭnova, I. A. *see* **Popov, Viktor Nikolaevich et al., (2005i:65006)**
Gibou, Frédéric (*with* Fedkiw, Ronald) A fourth order accurate discretization for the Laplace and heat equations on arbitrary domains, with applications to the Stefan problem. (English summary) **2005m:65167**
Haghparast-Kashani, A. *see* **Bazdidi-Tehrani, F. et al.**
Iliev, Oleg *see* **Čiegis, Raimondas et al., 2005h:76004**
Jeandel, Gerard *see* **Asllanaj, Fatmir et al., 2005g:65158**
Jerez, S. (*with* Romero, J. V.; Roselló, M. D.; Arnau, F. J.) A semi-implicit space-time CE-SE method to improve mass conservation through tapered ducts in internal combustion engines. (English summary) **2005k:65175**
Kagan, Leonid (*with* Minaev, S.; Sivashinsky, Gregory) On self-drifting flame balls. (English summary) **2005d:80009**
Klar, Axel *see* **Seaïd, Mohammed et al.**
Kokh, A. E. *see* **Popov, Viktor Nikolaevich et al., (2005i:65006)**
Kumar, Anand[1] Isotropic finite-differences. (English summary) **2005h:65185**
Lazarovici, A. (*with* Vol′pert, Vit. A.; Merkin, John H.) Steady states, oscillations and heat explosion in a combustion problem with convection. (English summary) **2005i:80005**
Maugin, Gérard A. *see* **Berezovskii, Arkadii A. et al., (2005b:00020)**
Merkin, John H. *see* **Lazarovici, A. et al., 2005i:80005**
Minaev, S. *see* **Kagan, Leonid et al., 2005d:80009**
Mironova, L. A. *see* **Popov, Viktor Nikolaevich et al., (2005i:65006)**
Mo, Ze Yao *see* **Xiao, Ying Xiong et al., 2005b:65035**
Pervichko, V. A. *see* **Chudanov, V. V. et al., (2005c:65004)**
Popov, V. V. *see* **Vasilyev, V. I., (2005c:65004)**
Popov, Viktor Nikolaevich (*with* Kokh, A. E.; Mironova, L. A.; Gaĭnova, I. A.) Numerical modeling of convection under the conditions of cyclic heating of side walls of a crucible. (English summary) (*see* **2005i:65006**)
Rief, Stefan *see* **Čiegis, Raimondas et al., 2005h:76004**
Roche, Jean Rodolphe *see* **Asllanaj, Fatmir et al., 2005g:65158**
Romero, J. V. *see* **Jerez, S. et al., 2005k:65175**
Roselló, M. D. *see* **Jerez, S. et al., 2005k:65175**
Seaïd, Mohammed (*with* Klar, Axel; Dubroca, Bruno) Flux limiters in the coupling of radiation and hydrodynamic models. (English summary)
Shahmir, A. *see* **Bazdidi-Tehrani, F. et al.**
Shu, Shi *see* **Xiao, Ying Xiong et al., 2005b:65035**
Sivashinsky, Gregory *see* **Kagan, Leonid et al., 2005d:80009**
Slavov, Vladimir (*with* Dimova, Stefka) Phase-field modeling of dendritic interaction in 2D. (English and Bulgarian summaries) (*see* **2005f:00011**)
Steiner, Konrad *see* **Čiegis, Raimondas et al., 2005h:76004**
Tang, Tao *see* **Azarenok, Boris N., 2005k:76086**
Tomoeda, Kenji A numerical approach to the dynamical behavior of initiated pulses in some nonlinear diffusion equations. (English summary) (*see* **2005j:65003**)
Vabishchevich, Petr N. *see* **Chudanov, V. V. et al., (2005c:65004)**
Vasilyev, V. I. (*with* Popov, V. V.) Numerical realization of the thawed ground freezing mathematical model. (*see* **2005c:65004**)
Vol′pert, Vit. A. *see* **Lazarovici, A. et al., 2005i:80005**
Xiao, Ying Xiong (*with* Shu, Shi; Zhang, Ping Wen; Mo, Ze Yao; Xu, Jin Chao) A kind of semi-coarsing AMG method for two-dimensional energy equations with three temperatures. (Chinese. English summary) **2005b:65035**
Xu, Jin Chao *see* **Xiao, Ying Xiong et al., 2005b:65035**
Zhang, Ping Wen *see* **Xiao, Ying Xiong et al., 2005b:65035**

80M25 Other numerical methods

Bermúdez de Castro, Alfredo (*with* Otero, M. V.) Numerical solution of a three-dimensional solidification problem in aluminium casting. (English summary)
Bohbot, Julien (*with* Zolver, Marc; Klahr, Diego; Torres, Arnaud) Three dimensional modelling of combustion in a direct injection diesel engine using a new unstructured parallel solver. (English summary) (*see* **2005g:65008**)
Burger, Martin Numerical simulation of anisotropic surface diffusion with curvature-dependent energy. (English summary) **2005k:80014**
Campo, Antonio (*with* Morrone, Biagio) Meshless approach for computing the heat liberation from annular fins of tapered cross section. (English summary) **2005f:80018**
Chuiko, M. M. *see* **Mazhukin, V. I. et al., 2005f:80019**
Dasgupta, Gautam *see* **Malsch, Elisabeth Anna, 2005b:80016**
Doctor, H. D. *see* **Joshi, D. C.**
Dreyer, Wolfgang (*with* Qamar, Shamsul) Kinetic flux-vector splitting schemes for the hyperbolic heat conduction. (English summary) **2005b:80015**
Garshasbi, M. *see* **Shidfar, Afima Abdullah, 2005k:80016**
Iqbal, Mazhar (*with* Syed, K. S.; Mir, Nazir A.) Numerical simulation of heat transfer in the entrance region of finned double-pipe. (English summary)
Joshi, D. C. (*with* Doctor, H. D.) Quasilinearization and cubic spline collocation for radiation fin of trapezoidal profile. (English summary)
Klahr, Diego *see* **Bohbot, Julien et al., (2005g:65008)**
Lapanik, A. M. *see* **Mazhukin, V. I. et al., 2005f:80019**
Lin, Chien-Nan *see* **Liu, Kuo-Chi et al., 2005k:80015**
Liu, Kuo-Chi (*with* Lin, Chien-Nan; Wang, Jiun-Shen) Numerical solutions for the hyperbolic heat conduction problems in a layered solid cylinder with radiation surface. (English summary) **2005k:80015**
Luo, Yiqi *see* **White, L. W. et al., 2005i:80008**
Malsch, Elisabeth Anna (*with* Dasgupta, Gautam) Interpolations for temperature distributions: a method for all non-concave polygons. (English summary) **2005b:80016**
Mazhukin, V. I. (*with* Chuiko, M. M.; Lapanik, A. M.) Dynamic adaptation method for numerical solution of axisymmetric Stefan problems. (English and Lithuanian summaries) **2005f:80019**
Mir, Nazir A. *see* **Iqbal, Mazhar et al.**
Morrone, Biagio *see* **Campo, Antonio, 2005f:80018**
Otero, M. V. *see* **Bermúdez de Castro, Alfredo**
Pope, Stephen B. *see* **Tang, Qing, 2005a:80011** *and* **Singer, Michael A.[2], 2005g:80017**
Qamar, Shamsul *see* **Dreyer, Wolfgang, 2005b:80015**
Shidfar, Afima Abdullah (*with* Garshasbi, M.) Numerical study of in-cylinder pressure in an internal combustion engine. (English summary) **2005k:80016**
Singer, Michael A.[2] (*with* Pope, Stephen B.) Exploiting ISAT to solve the reaction-diffusion equation. (English summary) **2005g:80017**
Solov′eva, S. I. *see* **Tuikina, S. R., 2005h:80016**
Syed, K. S. *see* **Iqbal, Mazhar et al.**
Tang, Qing (*with* Pope, Stephen B.) A more accurate projection in the rate-controlled constrained-equilibrium method for dimension reduction of combustion chemistry. (English summary) **2005a:80011**
Torres, Arnaud *see* **Bohbot, Julien et al., (2005g:65008)**
Tuikina, S. R. (*with* Solov′eva, S. I.) Numerical determination of two characteristics of a compressible ion exchanger. (English summary) **2005h:80016**
Wang, Jiun-Shen *see* **Liu, Kuo-Chi et al., 2005k:80015**
White, L. W. (*with* Luo, Yiqi; Xu, Tao) Carbon sequestration: inversion of FACE data and prediction. (English summary) **2005i:80008**
Xu, Tao *see* **White, L. W. et al., 2005i:80008**
Zolver, Marc *see* **Bohbot, Julien et al., (2005g:65008)**

Items with secondary classifications in 80M25

Angelberger, C. *see* **Moureau, V. et al., 2005m:76138**
Arnau, J. M. (*with* Company, R.; Roselló, M. D.; Climent, H.) A collocation method to compute one-dimensional flow models in intake and exhaust systems of internal combustion engines. (English summary) **2005k:65207**
Attia, Hazem Ali Numerical study of flow and heat transfer of a non-Newtonian fluid on a rotating porous disk. (English summary) **2005h:76003**
Becker, Roland (*with* Braack, Malte; Vexler, Boris) Numerical parameter estimation for chemical models in multidimensional reactive flows. (English summary) **2005g:80012**
Belk, Michaël (*with* Vol′pert, Vit. A.) Modeling of heat explosion with convection. (English summary) **2005a:80004**
Bermúdez de Castro, Alfredo Mathematical modelling in industry. (English summary) **2005j:00007**
Bhave, Amit (*with* Kraft, Markus) Partially stirred reactor model: analytical solutions and numerical convergence study of a PDF/Monte Carlo method. (English summary) **2005c:80009**
Bondarenko, L. N. (*with* Zhuk, P. F.) Asymptotic behavior of the solution of a nonlinear mathematical model of a cascade of sequentially linked adsorption apparatuses. (Russian. Russian summary) **2005i:35032**
Braack, Malte *see* **Becker, Roland et al., 2005g:80012**
Caflisch, Russel E. *see* **Gibou, Frédéric et al., 2005d:80005**
Cai, Xiao-Chuan *see* **Ovtchinnikov, Serguei, 2005g:65138**
Chen, Ching Shyang *see* **Šarler, B. et al., (2005b:65003)**
Cherepanov, A. N. *see* **Semin, L. G. et al., (2005i:65006)**
Cherepanova, V. K. *see* **Semin, L. G. et al., (2005i:65006)**
Climent, H. *see* **Arnau, J. M. et al., 2005k:65207**
Colin, O. *see* **Moureau, V. et al., 2005m:76138**

Colonna, P. (*with* Rebay, S.) Numerical simulation of dense gas flows on unstructured grids with an implicit high resolution upwind Euler solver. (English summary) **2005f:76075**
Company, R. *see* **Arnau, J. M. et al., 2005k:65207**
Davies, Alan J. *see* **Kane, S. J. et al., (2005d:65006)**
Dick, Erik *see* **Vierendeels, Jan et al.**
Fedkiw, Ronald *see* **Gibou, Frédéric et al., 2005d:80005**
Frank, Martin[2] *see* **Seaïd, Mohammed et al., 2005d:65178**
Gibou, Frédéric (*with* Fedkiw, Ronald; Caflisch, Russel E.; Osher, Stanley) A level set approach for the numerical simulation of dendritic growth. (English summary) **2005d:80005**
Honnor, M. E. *see* **Kane, S. J. et al., (2005d:65006)**
Igumenov, I. K. *see* **Semin, L. G. et al., (2005i:65006)**
Kane, S. J. (*with* Davies, Alan J.; Honnor, M. E.) A dual reciprocity method for phase change problems. (English summary) (*see* **2005d:65006**)
Klar, Axel *see* **Seaïd, Mohammed et al., 2005d:65178**
Klein, Olaf (*with* Philip, Peter; Sprekels, Jürgen) Modeling and simulation of sublimation growth of SiC bulk single crystals. (English summary) **2005e:80003**
Kornhuber, R. (*with* Krause, Rolf H.) On multigrid methods for vector-valued Allen-Cahn equations with obstacle potential. (*see* **2005f:65003**)
Kovačević, Igor *see* **Šarler, B. et al., (2005b:65003)**
Kraft, Markus *see* **Bhave, Amit, 2005c:80009**
Krause, Rolf H. *see* **Kornhuber, R., (2005f:65003)**
Laitinen, Erkki J. (*with* Lapin, A. V.; Pieskä, J.) Asynchronous domain decomposition methods for solving continuous casting problem. (*see* **2005f:65003**)
Lapin, A. V. *see* **Laitinen, Erkki J. et al., (2005f:65003)**
Lartigue, G. *see* **Moureau, V. et al., 2005m:76138**
Maday, Yvon (*with* Rønquist, Einar M.) The reduced basis element method: application to a thermal fin problem. (English summary) **2005i:65208**
Merci, Bart *see* **Vierendeels, Jan et al.**
Mikheev, A. N. *see* **Semin, L. G. et al., (2005i:65006)**
Mo, Ze Yao (*with* Shen, Long Jun) Parallel adaptive multigrid solution for a system of 2-D 3-T heat conduction equations. (Chinese. English summary) **2005j:65104**
Monaco, Roberto (*with* Pandolfi Bianchi, M.; Pieraccini, Sandra; Puppo, Gabriella) Numerical simulations of a reacting gas mixture at the hydrodynamic scale. (English summary) (*see* **2005c:00016**)
Moureau, V. (*with* Lartigue, G.; Sommerer, Y.; Angelberger, C.; Colin, O.; Poinsot, T.) Numerical methods for unsteady compressible multi-component reacting flows on fixed and moving grids. (English summary) **2005m:76138**
Orlande, Helcio R. B. *see* **Saker, Leonardo F., 2005m:35123**
Osher, Stanley *see* **Gibou, Frédéric et al., 2005d:80005**
Ovtchinnikov, Serguei (*with* Cai, Xiao-Chuan) One-level Newton-Krylov-Schwarz algorithm for unsteady non-linear radiation diffusion problem. (English summary) **2005g:65138**
Pandolfi Bianchi, M. *see* **Monaco, Roberto et al., (2005c:00016)**
Papanicolaou, N. C. Modelling thermoconvective flow in a vertical slot. (English summary) (*see* **2005m:00008**)
Philip, Peter *see* **Klein, Olaf et al., 2005e:80003**
Pieraccini, Sandra *see* **Monaco, Roberto et al., (2005c:00016)**
Pieskä, J. *see* **Laitinen, Erkki J. et al., (2005f:65003)**
Pinnau, René *see* **Seaïd, Mohammed et al., 2005d:65178**
Pironneau, Olivier Numerical and mathematical methods for the nuclear waste disposal problem. (English summary) (*see* **2005h:00013**)
Poinsot, T. *see* **Moureau, V. et al., 2005m:76138**
Puppo, Gabriella *see* **Monaco, Roberto et al., (2005c:00016)**
Rebay, S. *see* **Colonna, P., 2005f:76075**
Rønquist, Einar M. *see* **Maday, Yvon, 2005i:65208**
Roselló, M. D. *see* **Arnau, J. M. et al., 2005k:65207**
Saker, Leonardo F. (*with* Orlande, Helcio R. B.) Simultaneous estimation of spatially-dependent mass and heat transfer coefficients of drying bodies. (English summary) **2005m:35123**
Šarler, B. (*with* Kovačević, Igor; Chen, Ching Shyang) A mesh-free solution of temperature in direct-chill cast slabs and billets. (English summary) (*see* **2005b:65003**)
Seaïd, Mohammed (*with* Frank, Martin[2]; Klar, Axel; Pinnau, René; Thömmes, Guido) Efficient numerical methods for radiation in gas turbines. (English summary) **2005d:65178**
Semin, L. G. (*with* Shapeev, V. P.; Cherepanov, A. N.; Cherepanova, V. K.; Igumenov, I. K.; Mikheev, A. N.) Collocation and least-squares method for numerical modeling of sublimation processes of metal β-diketonates. (English summary) (*see* **2005i:65006**)
Shapeev, V. P. *see* **Semin, L. G. et al., (2005i:65006)**
Shashkov, M. Yu. (*with* Wendroff, Burton) The repair paradigm and application to conservation laws. (English summary) **2005f:65114**
Shen, Long Jun *see* **Mo, Ze Yao, 2005j:65104**
Simões, N. *see* **Tadeu, A., (2005d:65006)**
Smirnov, G. V. Adsorption integral equation. (English summary) **2005k:45005**
Sommerer, Y. *see* **Moureau, V. et al., 2005m:76138**
Sprekels, Jürgen *see* **Klein, Olaf et al., 2005e:80003**
Tadeu, A. (*with* Simões, N.) 2.5D Green's functions for transient heat transfer by conduction and convection. (English summary) (*see* **2005d:65006**)
Thömmes, Guido *see* **Seaïd, Mohammed et al., 2005d:65178**
Vexler, Boris *see* **Becker, Roland et al., 2005g:80012**
Vierendeels, Jan (*with* Merci, Bart; Dick, Erik) A multigrid method for natural convective heat transfer with large temperature differences. (English summary)
Vol′pert, Vit. A. *see* **Belk, Michaël, 2005a:80004**
Wendroff, Burton *see* **Shashkov, M. Yu., 2005f:65114**
Wiwatanapataphee, Benchawan *see* **Wu, Yong Hong[1] et al.**
Wu, Yong Hong[1] (*with* Wiwatanapataphee, Benchawan; Yu, Xijun) An enthalpy control volume method for transient mass and heat transport with solidification. (English summary)
Yu, Xijun *see* **Wu, Yong Hong[1] et al.**
Zhuk, P. F. *see* **Bondarenko, L. N., 2005i:35032**

80M30 Variational methods

Items with secondary classifications in 80M30

Braack, Malte (*with* Ern, Alexandre) Coupling multimodelling with local mesh refinement for the numerical computation of laminar flames. (English summary) **2005g:80013**
Carlen, E. A. (*with* Carvalho, M. C.; Esposito, Raffaele; Lebowitz, Joel L.; Marra, R.) Free energy minimizers for a two-species model with segregation and liquid-vapour transition. (English summary) **2005g:82036**
Carvalho, M. C. *see* **Carlen, E. A. et al., 2005g:82036**
Ern, Alexandre *see* **Braack, Malte, 2005g:80013**
Esposito, Raffaele *see* **Carlen, E. A. et al., 2005g:82036**
Lebowitz, Joel L. *see* **Carlen, E. A. et al., 2005g:82036**
Marra, R. *see* **Carlen, E. A. et al., 2005g:82036**

80M35 Asymptotic analysis

Items with secondary classifications in 80M35

Antoniou, Eliana S. (*with* Bechtold, John K.; Matalon, Moshe) A diffusional-thermal theory of near-stoichiometric premixed flames. (English summary) **2005e:80009**
Bechtold, John K. *see* **Antoniou, Eliana S. et al., 2005e:80009**
Matalon, Moshe *see* **Antoniou, Eliana S. et al., 2005e:80009**
Rätz, Andreas (*with* Voigt, Axel) Phase-field model for island dynamics in epitaxial growth. (English summary) **2005g:35310**
Voigt, Axel *see* **Rätz, Andreas, 2005g:35310**

80M40 Homogenization

Timofte, Claudia Application of central limit theorems to thermal dispersion in periodic media. (English summary) **2005i:80009**

Items with secondary classifications in 80M40

Deuflhard, Peter (*with* Hochmuth, Reinhard) Multiscale analysis of thermoregulation in the human microvascular system. (English summary) **2005a:92014**
Eck, Christof Homogenization of a phase field model for binary mixtures. (English summary) **2005k:35015**
Hochmuth, Reinhard *see* **Deuflhard, Peter, 2005a:92014**
Laschet, Gottfried Homogenization of the fluid flow and heat transfer in transpiration cooled multi-layer plates. (English summary)
Monsurrò, Sara Erratum for the paper: "Homogenization of a two-component composite with interfacial thermal barrier" [Adv. Math. Sci. Appl. **13** (2003), no. 1, 43–63 MR2002395 (2004i:35031)]. (English summary) **2005c:35021**

80M50 Optimization

Angulo-Brown, F. *see* **Arias-Hernández, L. A. et al., 2005b:80017**
Ares de Parga, G. *see* **Arias-Hernández, L. A. et al., 2005b:80017**
Arias-Hernández, L. A. (*with* Ares de Parga, G.; Angulo-Brown, F.) A variational ecological-type optimization of some thermal-engine models. (English summary) **2005b:80017**
Lyashko, S. I. (*with* Nomirovskiĭ, D. A.) Generalized solvability and optimization of parabolic systems in domains with thin weakly permeable inclusions. (Russian. English and Ukrainian summaries) **2005m:80013**
Nomirovskiĭ, D. A. *see* **Lyashko, S. I., 2005m:80013**

Items with secondary classifications in 80M50

Bärwolff, Günter (*with* Hinze, Michael) Optimization of a thermal coupled flow problem. (English summary)
Becker, Roland (*with* Braack, Malte; Vexler, Boris) Parameter identification for chemical models in combustion problems. (English summary) **2005m:80005**
Belmiloudi, Aziz Robust and optimal control problems to a phase-field model for the solidification of a binary alloy with a constant temperature. (English summary) **2005h:49007**
Braack, Malte *see* **Becker, Roland et al., 2005m:80005**
Burger, Martin (*with* Capasso, Vincenzo; Micheletti, Alessandra) Optimal control of polymer morphologies. (English summary) **2005m:74076**
Capasso, Vincenzo *see* **Burger, Martin et al., 2005m:74076**
Hinze, Michael *see* **Bärwolff, Günter**
Micheletti, Alessandra *see* **Burger, Martin et al., 2005m:74076**
Pinnau, René (*with* Thömmes, Guido) Optimal boundary control of glass cooling processes. (English summary) **2005e:49078**
Thömmes, Guido *see* **Pinnau, René, 2005e:49078**
Vexler, Boris *see* **Becker, Roland et al., 2005m:80005**
Volkwein, Stefan Nonlinear conjugate gradient methods for the optimal control of laser surface hardening. (English summary) **2005b:49066**

81–XX Quantum theory

81–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

(Bagger, Jonathan) *see* **Concise encyclopedia of supersymmetry and noncommutative structures in mathematics and physics, 2005m:81001**
(Duplij, S. A.) *see* **Concise encyclopedia of supersymmetry and noncommutative structures in mathematics and physics, 2005m:81001**
(Le Bris, Claude) *see* **Handbook: Numerical analysis, 2005c:81001**
(Siegel, Warren) *see* **Concise encyclopedia of supersymmetry and noncommutative structures in mathematics and physics, 2005m:81001**

Items listed otherwise than by author

Concise encyclopedia of supersymmetry and noncommutative structures in mathematics and physics ★ Concise encyclopedia of supersymmetry and noncommutative structures in mathematics and physics. **2005m:81001**
Handbook:
Numerical analysis ★ Handbook of numerical analysis. Vol. X. **2005c:81001**

81–01 Instructional exposition (textbooks, tutorial papers, etc.)

Bes, Daniel R. ★ Quantum mechanics. **2005c:81002**
Das, Ashok ★ Lectures on quantum mechanics. **2005c:81003**
Esposito, Giampiero (*with* Marmo, Giuseppe; Sudarshan, E. C. George) ★ From classical to quantum mechanics. **2005d:81001**
(Goldfarb, Steven) *see* **Martin, Philippe André[1], 2005f:81001**
(Jordan, Andrew N.) *see* **Martin, Philippe André[1], 2005f:81001**
Kobzarev, I. Yu. (*with* Manin, Yurii Ivanovich) ★ Элементарные частицы. (Russian. Russian summary) [Elementary particles] **2005k:81001**
(Leach, Samuel) *see* **Martin, Philippe André[1], 2005f:81001**
Manin, Yurii Ivanovich *see* **Kobzarev, I. Yu., 2005k:81001**
Marmo, Giuseppe *see* **Esposito, Giampiero et al., 2005d:81001**
Martin, Philippe André[1] (*with* Rothen, François) ★ Many-body problems and quantum field theory. **2005f:81001**
Newton, Roger G. ★ Thinking about physics. **2005e:81001**
Prakash, Nirmala ★ Mathematical perspectives on theoretical physics. **2005f:81002**
(Roederer, Juan G.) *see* **Bes, Daniel R., 2005c:81002**
Rothen, François *see* **Martin, Philippe André[1], 2005f:81001**
Sudarshan, E. C. George *see* **Esposito, Giampiero et al., 2005d:81001**
Weinberg, Steven ★ The quantum theory of fields. Vol. I.
— ★ The quantum theory of fields. Vol. II.
Zhang, Shou-Cheng To see a world in a grain of sand.

Items with secondary classifications in 81–01

Arai, Asao Mathematical theory of quantum particles interacting with a quantum field. (English summary) **2005d:81232**
Asorey, Manuel Yang-Mills quantum theory: mass generation. (Spanish. Spanish summary) (*see* **2005j:00009**)
Benenti, Giuliano (*with* Casati, Giulio; Strini, Giuliano) ★ Principles of quantum computation and information. Vol. I. **2005f:81038**
Bhaduri, Rajat K. *see* **Brack, Matthias, 2005d:81002**
Brack, Matthias (*with* Bhaduri, Rajat K.) ★ Semiclassical physics. **2005d:81002**
Casati, Giulio *see* **Benenti, Giuliano et al., 2005f:81038**
Dabaghian, Yu. (*with* Jensen, Roderick V.) Quantum chaos in elementary quantum mechanics. (English summary) **2005k:81086**
Day, Michael A. I. I. Rabi: the two cultures and the universal culture of science. (English summary)
Effros, Edward G. Matrix revolutions: an introduction to quantum variables for young mathematicians. **2005h:81179**
Ekert, Artur Introduction to quantum computation. (English summary) (*see* **2005d:81105**)
Ghirardi, GianCarlo ★ Sneaking a look at God's cards. **2005h:81017**
Greene, Brian R. ★ The fabric of the cosmos. **2005d:83001**
(Gross, David J.) *see* **Zwiebach, Barton, 2005e:81204**
Gu, Xiao-Yan *see* **Ma, Zhong Qi, 2005c:81079**
Guts, A. K. ★ Элементы теории времени. (Russian) [Elements of the theory of time] **2005k:83001**
Jensen, Roderick V. *see* **Dabaghian, Yu., 2005k:81086**
(Kuvychko, I. V.) *see* **Menskii, M. B., 2005c:81029**
Leggett, A. J. Qubits, cbits, decoherence, quantum measurement and environment. (English summary) (*see* **2005d:81105**)
Ma, Zhong Qi (*with* Gu, Xiao-Yan) ★ Problems & solutions in group theory for physicists. **2005c:81079**
Mackey, George W. ★ Mathematical foundations of quantum mechanics. **2005b:81004**
(Malsbary, Gerald) *see* **Ghirardi, GianCarlo, 2005h:81017**
McComb, W. D. ★ Renormalization methods. **2005f:82001**
Menskii, M. B. ★ Квантовые измерения и декогеренция. (Russian. Russian summary) [Quantum measurements and decoherence] **2005c:81029**
(Rabi, I. I.) *see* **Day, Michael A.**
Rubakov, V. A. ★ Classical theory of gauge fields. **2005k:81175**
Schwarz, John H. *see* **Schwarz, Patricia M., 2005b:83001**
Schwarz, Patricia M. (*with* Schwarz, John H.) ★ Special relativity. **2005b:83001**
Selesnick, S. A. ★ Quanta, logic and spacetime. **2005g:81016**
Strini, Giuliano *see* **Benenti, Giuliano et al., 2005f:81038**
Szekeres, Peter ★ A course in modern mathematical physics. **2005h:00001**
Varadarajan, V. S. ★ Supersymmetry for mathematicians: an introduction. **2005g:58011**
Weinberg, Steven ★ The quantum theory of fields. Vol. III.
(Wightman, A. S.) *see* **Mackey, George W., 2005b:81004**
(Wilson, Stephen S.[3]) *see* **Rubakov, V. A., 2005k:81175**
Zwiebach, Barton ★ A first course in string theory. **2005e:81204**

81–02 Research exposition (monographs, survey articles)

Al'beverio, S. (*with* Gesztesy, Fritz; Høegh-Krohn, R.; Holden, Helge) ★ Solvable models in quantum mechanics. **2005g:81001**
Bhaduri, Rajat K. *see* **Brack, Matthias, 2005d:81002**
Brack, Matthias (*with* Bhaduri, Rajat K.) ★ Semiclassical physics. **2005d:81002**
Cardy, John SLE for theoretical physicists. (English summary)
(Exner, Pavel) *see* **Al'beverio, S. et al., 2005g:81001**
(de Forcrand-Millard, Patricia A.) *see* **Vasil'ev, A. N., 2005j:81001**
Gesztesy, Fritz *see* **Al'beverio, S. et al., 2005g:81001**
Høegh-Krohn, R. *see* **Al'beverio, S. et al., 2005g:81001**
Holden, Helge *see* **Al'beverio, S. et al., 2005g:81001**
Ram-Mohan, L. Ramdas ★ Finite element and boundary element applications in quantum mechanics. **2005h:81001**
Ramond, Pierre ★ Journeys beyond the standard model. **2005c:81004**
(Roy, Probir) *see* **Soni, S. K., 2005a:81001**
Simon, Barry ★ Functional integration and quantum physics. **2005f:81003**
Singh, Simmi *see* **Soni, S. K., 2005a:81001**
Soni, S. K. (*with* Singh, Simmi) ★ Supersymmetry. **2005a:81001**
Vasil'ev, A. N. ★ The field theoretic renormalization group in critical behavior theory and stochastic dynamics. **2005j:81001**
Weinberg, Steven ★ The quantum theory of fields. Vol. III.

Items with secondary classifications in 81–02

Abbott, Derek (*with* Doering, Charles R.; Caves, Carlton M.; Lidar, Daniel A.; Brandt, Howard E.; Hamilton, Alex R.; Ferry, David K.; Gea-Banacloche, Julio; Bezrukov, Sergey M.; Kish, Laszlo B.) Dreams versus reality: plenary debate session on quantum computing.
Adler, Stephen L. ★ Quantum theory as an emergent phenomenon. **2005g:81005**
Álvarez, Enrique (*with* Conde, Jorge; Hernández, Lorenzo) Goursat's problem and the holographic principle. (English summary) **2005m:81217**
Andrianov, A. A. (*with* Sokolov, A. V.) Nonlinear supersymmetry in quantum mechanics. (English summary)
Antoniadis, Ignatios String physics at low energies. (English summary)
Aspuru-Guzik, Alán (*with* Lester, William A., Jr.) Quantum Monte Carlo methods for the solution of the Schrödinger equation for molecular systems. (*see* **2005c:81001**)
Beausoleil, R. G. (*with* Munro, William J.; Spiller, T. P.) Applications of coherent population transfer to quantum information processing. (English summary)
Bertolini, Matteo Four lectures on the gauge/gravity correspondence. (English summary) **2005f:81236**
Bezrukov, Sergey M. *see* **Abbott, Derek et al.**
Bianchi, Massimo Higher spin symmetry (breaking) in $\mathcal{N} = 4$ SYM and holography. (English and French summaries) **2005k:81302**
Bolivar, A. O. ★ Quantum-classical correspondence. **2005e:81007**
Boutet de Monvel, Louis Algèbre de Hopf des diagrammes de Feynman, renormalisation et factorisation de Wiener-Hopf (d'après A. Connes et D. Kreimer). (French summary) [Hopf algebra of Feynman diagrams, renormalization and Wiener-Hopf factorization (following A. Connes and D. Kreimer)] **2005h:81235**
Bouwmeester, Dik (*with* Howell, John C.; Lamas-Linares, Antia) Quantum information science using photons. (English summary) (*see* **2005d:81105**)
Brandt, Howard E. *see* **Abbott, Derek et al.**
(Braunstein, Samuel L.) *see* **Quantum information with continuous variables, 2005d:81106**
Brevik, Iver (*with* Bytsenko, Andrei A.; Pimentel, B. M.) Thermodynamic properties of the relativistic composite string—expository remarks. (English summary)
Brun, Todd A. Decoherence and quantum trajectories. (English summary) (*see* **2005c:81005**)
Buhrman, Harry (*with* Röhrig, Hein) Distributed quantum computing. (English summary) (*see* **2005b:68020**)
Burkard, Guido (*with* Engel, Hans-Andreas; Loss, Daniel) Spintronics, quantum computing, and quantum communication in quantum dots. (English summary) (*see* **2005d:81105**)
Bytsenko, Andrei A. (*with* Cognola, Guido; Elizalde, Emilio; Moretti, Valter; Zerbini, Sergio) ★ Analytic aspects of quantum fields. **2005a:81127**
— *see also* **Brevik, Iver et al.**
Calzetta, E. A. Two-particle irreducible effective action in gauge theories. (English summary) **2005m:81200**
Caves, Carlton M. *see* **Abbott, Derek et al.**
Chiu, Ting-Wai The index and axial anomaly of a lattice Dirac operator. (English summary)
Cirac, Juan Ignacio Quantum information: entanglement, purification, error correction, and quantum optical implementations. (*see* **2005d:81105**)
Cognola, Guido *see* **Bytsenko, Andrei A. et al., 2005a:81127**
Coleman, A. J. The Kummer variety for N-particles. (English summary) (*see* **2005a:81003**)
Conde, Jorge *see* **Álvarez, Enrique et al., 2005m:81217**
Corrigan, Edward Integrable models with boundaries and defects. (*see* **2005j:00020**)
Dabaghian, Yu. (*with* Jensen, Roderick V.) Quantum chaos in elementary quantum mechanics. (English summary) **2005k:81086**
Dalla Chiara, Maria Luisa (*with* Giuntini, Roberto; Greechie, Richard J.) ★ Reasoning in quantum theory. **2005j:81008**
Damanik, David Quantum dynamical bounds for one-dimensional quasicrystals. (English summary) **2005e:81055**
Damgaard, P. H. The microscopic Dirac operator spectrum. (English summary)
Davidovich, Luiz Decoherence and quantum-state measurement in quantum optics. (English summary) (*see* **2005c:81005**)
Dimitrijević, Marija (*with* Jonke, Larisa; Möller, Lutz; Tsouchnika, Efrossini; Wess, Julius; Wohlgenannt, Michael) Field theory on kappa-spacetime. (English summary)
Doering, Charles R. *see* **Abbott, Derek et al.**
(Dokshitzer, Yuri) *see* **Gribov, V. N., 2005m:81337**

Dorey, Nick Lectures on supersymmetric gauge theory. (English summary) **2005h:81361**
Elizalde, Emilio On the issue of imposing boundary conditions on quantum fields. (English summary) **2005f:81153**
— *see also* **Bytsenko, Andrei A. et al., 2005a:81127**
Engel, Hans-Andreas *see* **Burkard, Guido et al., (2005d:81105)**
Esposito, Giampiero (*with* Pelliccia, Diego N.; Zaccaria, Francesco) Gribov problem for gauge theories: a pedagogical introduction. (English summary) **2005i:81094**
Fagnola, Franco Quantum stochastic differential equations. (English summary) **2005b:81083**
Ferry, David K. *see* **Abbott, Derek et al.**
Flohr, Michael A. I. Bits and pieces in logarithmic conformal field theory. (English summary) **2005g:81274**
(Frankfurt, Leonid) *see* **Gribov, V. N., 2005m:81337**
Frieden, B. Roy ★ Science from Fisher information. **2005f:81048**
Friedrich, Harald (*with* Trost, Johannes) Working with WKB waves far from the semiclassical limit. (English summary) **2005a:81072**
Fujikawa, Kazuo (*with* Suzuki, Hiroshi) ★ Path integrals and quantum anomalies. **2005g:81290**
Gavrilik, Alexandre M. Quantum groups and Cabibbo mixing. (English summary)
Gea-Banacloche, Julio *see* **Abbott, Derek et al.**
Genovese, Marco Research on hidden variable theories: a review of recent progresses. (English summary) **2005m:81008**
Gibbons, Gary W. Euclidean quantum gravity: the view from 2002. (*see* **2005j:83002**)
Giuntini, Roberto *see* **Dalla Chiara, Maria Luisa et al., 2005j:81008**
Gomes, J. F. (*with* Sotkov, G. M.; Zimerman, A. H.) T-duality in affine NA Toda models. (English summary)
Gomis, Jaume Lectures on tachyon condensation: towards time-dependent backgrounds and holography. (English summary)
Greechie, Richard J. *see* **Dalla Chiara, Maria Luisa et al., 2005j:81008**
Green, Michael B. A brief description of string theory. (*see* **2005j:83002**)
Gribov, L. A. (*with* Pavlyuchko, A. I.) ★ Вариационные методы решения ангармонических задач в теории колебательных спектров молекул. (Russian. Russian summary) [Variational methods for solving anharmonic problems in the theory of oscillatory spectra of molecules] **2005g:81362**
Gribov, V. N. ★ The theory of complex angular momenta. **2005m:81337**
Gross, David J. String theory. (*see* **2005j:83002**)
Grosse, Harald (*with* Wulkenhaar, Raimar) Renormalisation of noncommutative quantum field theories. (English summary)
Gubarev, F. V. (*with* Zakharov, V. I.) The Berry phase and monopoles in gluodynamics. (English summary)
Gubser, Steven S. Loop effects in AdS/CFT and beyond. (English summary)
Halliwell, Jonathan Some recent developments in the decoherent histories approach to quantum theory. (English summary) (*see* **2005c:81005**)
Hamilton, Alex R. *see* **Abbott, Derek et al.**
Hata, Hiroyuki Gauge structure of vacuum string field theory around the D-brane solution. (English summary)
Hernández, Lorenzo *see* **Álvarez, Enrique et al., 2005m:81217**
Hirshfeld, Allen C. Fermions and supersymmetry. (English summary) (*see* **2005b:00027**)
't Hooft, Gerard Renormalization without infinities. (English summary) **2005m:81209**
Horzela, Andrzej Physical consequences of noncanonical quantizations—an example of so(2, 1) oscillator. (English summary)
Howell, John C. *see* **Bouwmeester, Dik et al., (2005d:81105)**
Hudson, Robin Lyth An introduction to quantum stochastic calculus and some of its applications. (English summary) **2005i:81079**
Janyška, Josef (*with* Modugno, M.; Saller, D.) Covariant quantum mechanics and quantum symmetries. (English summary) **2005a:81109**
Jensen, Roderick V. *see* **Dabaghian, Yu., 2005k:81086**
Jolicard, Georges (*with* Killingbeck, John P.) The Bloch wave operator: generalizations and applications. II. The time-dependent case. (English summary) **2005b:81222**
Jones, Hugh F. On pseudo-Hermitian Hamiltonians and their Hermitian counterparts. (English summary) **2005m:81094**
Jonke, Larisa *see* **Dimitrijević, Marija et al.**
Kapuścik, Edward (*with* Podlaska, J.; Szczeszek, P.) Nonstandard boundary conditions in quantum mechanics. (English summary)
Karafyllidis, Ioannis G. Visualization of the quantum Fourier transform using a quantum computer simulator. (English summary) **2005a:81044**
Kendon, Viv (*with* Tregenna, Ben) Decoherence in discrete quantum walks. (English summary) (*see* **2005c:81005**)
Kholevo, Aleksandr Semenovich Quantum and classical stochastic calculus. **2005c:81118**
Kholodenko, A. L. "New" Veneziano amplitudes from "old" Fermat (hyper)surfaces. (English summary) **2005g:81245**
Killingbeck, John P. *see* **Jolicard, Georges, 2005b:81222**
Kish, Laszlo B. *see* **Abbott, Derek et al.**
Kleinert, Hagen ★ Path integrals in quantum mechanics, statistics, polymer physics, and financial markets. **2005f:81131**
Kolomietz, V. M. (*with* Shlomo, S.) Nuclear Fermi-liquid drop model. (English summary) **2005a:81266**
Koshino, Kazuki (*with* Shimizu, Akira) Quantum Zeno effect by general measurements. (English summary) **2005k:81032**
Kostov, Ivan K. Integrable flows in $c = 1$ string theory. (English summary) **2005h:81297**
Kowalski, Krzysztof (*with* Rembieliński, Jakub) q-deformed coherent states on a circle. (English summary)
Krokhmalskii, Taras Quantum computers: the fundamentals and algorithms (a brief review). (Ukrainian. English and Ukrainian summaries) **2005m:81064**
Kümmerer, Burkhard Stationary processes in quantum probability. (English summary) **2005h:81184**
Kuusk, Piret Yangi-Mills theory and mass gap. (Estonian) (*see* **2005b:00017**)
Lamas-Linares, Antia *see* **Bouwmeester, Dik et al., (2005d:81105)**
(Le Bris, Claude) *see* **Handbook: Numerical analysis, 2005c:81001**
Lechtenfeld, Olaf Noncommutative sine-Gordon model. (English summary)
van Leeuwen, Robert The Keldysh formalism applied to time-dependent current-density-functional theory. (English summary) (*see* **2005a:81003**)
Lester, William A., Jr. *see* **Aspuru-Guzik, Alán, (2005c:81001)**
Li, Xiangzhu *see* **Paldus, Josef, (2005b:00031)**
Lidar, Daniel A. *see* **Abbott, Derek et al.**
Lieb, Elliott H. The stability of matter and quantum electrodynamics. (*see* **2005f:81006**)
— Quantum mechanics, the stability of matter and quantum electrodynamics. (English summary)
Loss, Daniel *see* **Burkard, Guido et al., (2005d:81105)**
Lüst, Dieter Intersecting brane worlds and their effective interactions. (English summary) **2005j:81154**
Mackey, George W. ★ Mathematical foundations of quantum mechanics. **2005b:81004**
Majewski, Władysław A. On positive maps, entanglement and quantization. (English summary) **2005a:81028**
Milton, Kimball A. The Casimir effect: recent controversies and progress. (English summary) **2005e:81135**
Minwalla, Shiraz Lectures on noncommutative theories. (English summary) **2005b:81217**
Modugno, M. *see* **Janyška, Josef et al., 2005a:81109**
Möller, Lutz *see* **Dimitrijević, Marija et al.**
Moore, Gregory W. What is. . . a brane? **2005j:81157**
Moretti, Valter *see* **Bytsenko, Andrei A. et al., 2005a:81127**
Mostafazadeh, Ali Pseudo-Hermitian supersymmetry: a brief review. (English summary)
Mourão, José M. Aspects of the connections between path integrals, quantum field theory, topology and geometry. (English summary) **2005j:58013**
Munro, William J. *see* **Beausoleil, R. G. et al.**
Murthy, Ganpathy (*with* Shankar, Ramamurti) Hamiltonian theories of the fractional quantum Hall effect. (English summary) **2005e:81274**
de Muynck, Willem M. ★ Foundations of quantum mechanics, an empiricist approach. **2005i:81004**
Nakayama, Yu Liouville field theory: a decade after the revolution. (English summary) **2005j:81170**
Nekrasov, Nikita A. Lectures on nonperturbative aspects of supersymmetric gauge theories. (English summary) **2005j:81186**
van Nieuwenhuizen, Peter Supersymmetry, supergravity, superspace and BRST symmetry in a simple model. **2005m:81309**
Ódor, Géza Universality classes in nonequilibrium lattice systems. (English summary) **2005m:82101**
Ohta, Nobuyoshi Accelerating cosmologies and inflation from M/superstring theories. (English summary) **2005k:83167**
Ooguri, Hirosi Gauge theory and string theory; an introduction to the AdS/CFT correspondence. **2005h:81310**
Ortín, Tomás ★ Gravity and strings. **2005g:83001**
Paldus, Josef (*with* Li, Xiangzhu) Continuous groups and molecular electronic structure. (English summary) (*see* **2005b:00031**)
Pankiewicz, Ari Strings in plane wave backgrounds. (English summary) **2005b:81157**
Parfitt, D. G. W. (*with* Portnoi, M. E.) Exactly-solvable problems for two-dimensional excitons. (English summary) **2005d:81398**
Parthasarathy, Kalyanapuram Rangachari Quantum probability and strong quantum Markov processes. **2005a:81115**
(Pati, Arun K.) *see* **Quantum information with continuous variables, 2005d:81106**
Pavlyuchko, A. I. *see* **Gribov, L. A., 2005g:81362**
Paz, Juan Pablo (*with* Zurek, Wojciech Hubert) Environment-induced decoherence and the transition from quantum to classical. (English summary) (*see* **2005d:81105**)
Pelliccia, Diego N. *see* **Esposito, Giampiero et al., 2005i:81094**
Penrose, Roger ★ The road to reality. **2005k:83002**
Pimentel, B. M. *see* **Brevik, Iver et al.**
Piotrowski, Edward W. (*with* Sładkowski, Jan) The next stage: quantum game theory. (English summary) (*see* **2005a:00002**)
Podlaska, J. *see* **Kapuścik, Edward et al.**
Portnoi, M. E. *see* **Parfitt, D. G. W., 2005d:81398**
Reartes, Walter Path integral quantization of the sphere. (English summary) (*see* **2005b:70001**)
Rembieliński, Jakub *see* **Kowalski, Krzysztof**
Robert, Didier Remarks on time-dependent Schrödinger equations, bound states, and coherent states. (English summary) (*see* **2005c:81007**)
Roberts, John E. More lectures on algebraic quantum field theory. (English summary) **2005d:81230**
Röhrig, Hein *see* **Buhrman, Harry, (2005b:68020)**
Rowe, David J. Coherent states, induced representations, geometric quantization, and their vector coherent state extensions. (English summary) **2005a:81100**
Rubakov, V. A. ★ Classical theory of gauge fields. **2005k:81175**
Saller, D. *see* **Janyška, Josef et al., 2005a:81109**
Schücker, Thomas Noncommutative geometry and the standard model. (English summary) **2005m:81344**
Sen, Ashoke Tachyon dynamics in string theory. (English summary)
Shankar, Ramamurti *see* **Murthy, Ganpathy, 2005e:81274**
Shimizu, Akira *see* **Koshino, Kazuki, 2005k:81032**
Shlomo, S. *see* **Kolomietz, V. M., 2005a:81266**
Sładkowski, Jan *see* **Piotrowski, Edward W., (2005a:00002)**
Sokolov, A. V. *see* **Andrianov, A. A.**
Sotkov, G. M. *see* **Gomes, J. F. et al.**
Spiller, T. P. *see* **Beausoleil, R. G. et al.**
Spohn, Herbert ★ Dynamics of charged particles and their radiation field. **2005g:81355**
Strocchi, F. Relativistic quantum mechanics and field theory. (English summary) **2005a:81145**
Suzuki, Hiroshi *see* **Fujikawa, Kazuo, 2005g:81290**
Szczeszek, P. *see* **Kapuścik, Edward et al.**
Tempesta, Piergiulio On superintegrable systems in E_2: algebraic properties and symmetry preserving discretization. (English summary) **2005i:81061**

Townsend, Paul Kingsley Surprises with angular momentum. (English summary) **2005a:83110**
Tregenna, Ben *see* **Kendon, Viv**, (**2005c:81005**)
Trost, Johannes *see* **Friedrich, Harald**, **2005a:81072**
Tsouchnika, Efrossini *see* **Dimitrijević, Marija et al.**
Van Isacker, P. The interacting Boson model. (English summary) (*see* **2005b:00031**)
Vasil′ev, M. A. Progress in higher spin gauge theories. (English summary) **2005a:81146**
Weinberg, Steven ★ The quantum theory of fields. Vol. I.
— ★ The quantum theory of fields. Vol. II.
Wess, Julius *see* **Dimitrijević, Marija et al.**
(Wightman, A. S.) *see* **Mackey, George W.**, **2005b:81004**
(Wilson, Stephen S.^{3}) *see* **Rubakov, V. A.**, **2005k:81175**
Winternitz, Pavel Subalgebras of Lie algebras. Example of sl(3, ℝ). (English summary) **2005h:81155**
Witten, Edward The past and future of string theory. (*see* **2005j:83002**)
Wohlgenannt, Michael *see* **Dimitrijević, Marija et al.**
Wu, Cheng-Li Dynamical symmetry approach to collective motions in many-body systems. (English summary) (*see* **2005b:00031**)
Wulkenhaar, Raimar *see* **Grosse, Harald**
Yngvason, Jakob The role of type III factors in quantum field theory. (English summary) **2005j:81105**
Zaccaria, Francesco *see* **Esposito, Giampiero et al.**, **2005i:81094**
Zakharov, V. I. *see* **Gubarev, F. V.**
Zakrzewski, Wojciech J. Solitonic states and nonlinear Schrödinger equation in two and more dimensions. (English, Russian and Ukrainian summaries)
Zerbini, Sergio *see* **Bytsenko, Andrei A. et al.**, **2005a:81127**
Zimerman, A. H. *see* **Gomes, J. F. et al.**
Zurek, Wojciech Hubert *see* **Paz, Juan Pablo**, (**2005d:81105**)

Items listed otherwise than by author

Handbook:
Numerical analysis ★ Handbook of numerical analysis. Vol. X. **2005c:81001**
Quantum information with continuous variables ★ Quantum information with continuous variables. **2005d:81106**

81–03 Historical (must also be assigned at least one classification number from Section 01)

Aitchison, Ian J. R. (*with* MacManus, David A.; Snyder, Thomas M.) Understanding Heisenberg's "magical" paper of July 1925: a new look at the calculational details. (English summary) **2005e:81002**
Bokulich, Alisa Open or closed? Dirac, Heisenberg, and the relation between classical and quantum mechanics. (English summary)
Calboreanu, Alexandru The scientific heritage of Alexandru Proca and quantum physics revolution. (English summary)
Cassidy, David C. Einstein and the quantum hypothesis.
(Dirac, Paul) *see* **Bokulich, Alisa**
Drago, Antonino (*with* Esposito, Salvatore) Following Weyl on quantum mechanics: the contribution of Ettore Majorana. (English summary) **2005g:81002**
(Ehrenfest, Paul) *see* **Navarro Veguillas, Luis**, **2005f:81005** *and* **Halpern, Paul**, **2005h:81002**
(Einstein, Albert) *see* **Cassidy, David C.**
Enz, Charles P. ★ No time to be brief. **2005g:81003**
Esposito, Salvatore *see* **Majorana, Ettore**, **2005d:81003** *and* **Drago, Antonino**, **2005g:81002**
Freire, Olival, Jr. The historical roots of "foundations of quantum physics" as a field of research (1950–1970). (English summary)
Halpern, Paul Nordström, Ehrenfest, and the role of dimensionality in physics. (English summary) **2005h:81002**
Hao, Liu Xiang Weyl's unified field theory and its influence. (Chinese. English and Chinese summaries) **2005e:81003**
(Heisenberg, Werner Karl) *see* **Kovner, M. A.**, **2005f:81004** *and* **Bokulich, Alisa**
Hendry, Robin Findlay The physicists, the chemists, and the pragmatics of explanation. (English summary)
Kiessling, Michael K.-H. Electromagnetic field theory without divergence problems. I. The Born legacy. (English summary) **2005h:81003a**
— Electromagnetic field theory without divergence problems. II. A least invasively quantized theory. (English summary) **2005h:81003b**
Kovner, M. A. Quantum mechanical resonance and exchange forces in the works of Heisenberg. (Russian. English and Russian summaries) **2005f:81004**
Kuznetsova, Olga V. On the history of physics with two signs of time. (Russian. English and Russian summaries) **2005e:81004**
Lacki, Jan Canonical transformations and the understanding of the structure of quantum state spaces. **2005h:81004**
— The puzzle of canonical transformations in early quantum mechanics. (English summary) **2005h:81005**
MacManus, David A. *see* **Aitchison, Ian J. R. et al.**, **2005e:81002**
Majorana, Ettore ★ Ettore Majorana: notes on theoretical physics. **2005d:81003**
(Majorana, Ettore, Jr.) *see* **Majorana, Ettore**, **2005d:81003**
(Mandel′shtam, L. I.) *see* **Pechenkin, A. A.**, (**2005b:01005**)
Mehra, Jagdish (*with* Rechenberg, Helmut) ★ The historical development of quantum theory. Vol. 6. **2005e:81005**
(van der Merwe, Alwyn) *see* **Majorana, Ettore**, **2005d:81003**
Navarro Veguillas, Luis (*with* Pérez Canals, Enric) Paul Ehrenfest on the necessity of quanta (1911): discontinuity, quantization, corpuscularity, and adiabatic invariance. (English summary) **2005f:81005**
(Nordström, Gunnar) *see* **Halpern, Paul**, **2005h:81002**
(Pauli, Wolfgang) *see* **Enz, Charles P.**, **2005g:81003**
Pechenkin, A. A. Interpretation of quantum mechanics in the "lectures" of L. I. Mandel′shtam in the context of subsequent discussions. (Russian. English and Russian summaries) (*see* **2005b:01005**)
Pérez Canals, Enric *see* **Navarro Veguillas, Luis**, **2005f:81005**
Perovic, Slobodan Schrödinger's and Everett's interpretations of quantum mechanics and Bohr's experimental critique. (English summary) (*see* **2005h:81006**)
Ponomarëv, L. I. On the centenary of the discovery of the quantum of action. (Russian. English and Russian summaries) (*see* **2005c:01023**)
(Proca, Alexandre) *see* **Calboreanu, Alexandru**
(Recami, Erasmo) *see* **Majorana, Ettore**, **2005d:81003**
Rechenberg, Helmut *see* **Mehra, Jagdish**, **2005e:81005**
Redhead, Michael Broken bootstraps—the rise and fall of a research programme. (English summary) **2005m:81002**
Snyder, Thomas M. *see* **Aitchison, Ian J. R. et al.**, **2005e:81002**
Tanona, Scott Uncertainty in Bohr's response to the Heisenberg microscope. (English summary)
Vizgin, Vl. P. Heisenberg's methodological principles of physics. (Russian. English and Russian summaries) (*see* **2005c:01023**)
Wilczek, Frank The Dirac equation. **2005a:81002**

Items listed otherwise than by author

Biography:
Pauli, Wolfgang *see* **Enz, Charles P.**, **2005g:81003**
Ettore Majorana: notes on theoretical physics *see* **Majorana, Ettore**, **2005d:81003**

Items with secondary classifications in 81–03

Altshuler, Boris The universe of Andrei Sakharov [V International Conference on Cosmoparticle Physics (Cosmion-2001)].
Bartels, Andreas (*with* Lyre, Holger; Esfeld, Michael) Holism in the philosophy of physics: an introduction.
Bernstein, Jeremy Heisenberg in Poland. (English summary) **2005e:01019**
(Bohr, Niels Henrik David) *see* **Massimi, Michela**
Bolles, Edmund Blair ★ Einstein defiant. **2005f:01014**
(Buschhorn, Gerd W.) *see* **Fundamental physics—Heisenberg and beyond**, **2005f:81006**
Castellani, Elena Dirac on gauges and constraints. (English summary) **2005i:70047**
Davies, Paul C. W. John Archibald Wheeler and the clash of ideas.
van Dongen, Jeroen Einstein's methodology, semivectors and the unification of electrons and protons. **2005e:01015**
(Einstein, Albert) *see* **van Dongen, Jeroen**, **2005e:01015**
Esfeld, Michael *see* **Bartels, Andreas et al.**
Fok, N. V. Vladimir Aleksandrovich Fok (a biographical sketch). (Russian. English and Russian summaries) (*see* **2005b:01005**)
(Fok, Vladimir Aleksandrovich) *see* **Fok, N. V.**, (**2005b:01005**); **Vladimirov, Yu. S.**, (**2005b:01005**) *and* **Gorelik, G. E.**, (**2005b:01005**)
(Fowler, William A.) *see* **Greenberg, John**
Gorelik, G. E. Vladimir Aleksandrovich Fok: a philosophical lesson on the history of physics. (Russian. English and Russian summaries) (*see* **2005b:01005**)
Greenberg, John A conversation with William A. Fowler. I. (English summary)
(Heisenberg, Werner Karl) *see* **Studies in the history of physics and mechanics 2002**, **2005c:01023**; **Bernstein, Jeremy**, **2005e:01019**; **Fundamental physics—Heisenberg and beyond**, **2005f:81006** *and* **Massimi, Michela**
Hilgevoord, Jan Erratum to: "Time in quantum mechanics: a story of confusion" [Stud. Hist. Philos. Sci. B Stud. Hist. Philos. Modern Phys. **36** (2005), no. 1, 29–60; MR2126011].
Holland, Peter Jean-Pierre Vigier 1920–2004.
(Idlis, G. M.) *see* **Studies in the history of physics and mechanics 1998–1999**, **2005b:01005** *and* **Studies in the history of physics and mechanics 2002**, **2005c:01023**
Jaffe, Arthur Interactions between mathematics and theoretical physics. **2005j:00008**
(Kohn, Walter) *see* **Walter Kohn**, **2005b:01051**
Lipkin, A. I. Two views on the place of the "uncertainty principle", of classical physics, and of measurement in the foundations of quantum mechanics. (Russian. English and Russian summaries) (*see* **2005c:01023**)
Lyre, Holger *see* **Bartels, Andreas et al.**
Massimi, Michela What demonstrative induction can do against the threat of underdetermination: Bohr, Heisenberg, and Pauli on spectroscopic anomalies (1921–24). (English summary)
(von Neumann, John) *see* **Stöltzner, Michael**, **2005d:81025**
(Pauli, Wolfgang) *see* **Massimi, Michela**
Peres, Asher Einstein, Podolsky, Rosen, and Shannon. (English summary) **2005m:81045**
(Sakharov, Andrei) *see* **Altshuler, Boris**
(Scheffler, Matthias) *see* **Walter Kohn**, **2005b:01051**
Stöltzner, Michael Opportunistic axiomatics—von Neumann on the methodology of mathematical physics. (English summary) **2005d:81025**
(Vigier, Jean-Pierre) *see* **Holland, Peter**
Vladimirov, Yu. S. V. A. Fok and the principal problems of the theory of space-time and interactions. (Russian. English and Russian summaries) (*see* **2005b:01005**)
(Weinberger, Peter) *see* **Walter Kohn**, **2005b:01051**
(Wess, Julius) *see* **Fundamental physics—Heisenberg and beyond**, **2005f:81006**
(Wheeler, John Archibald) *see* **Davies, Paul C. W.**

Items listed otherwise than by author

Biography:
Fok, Vladimir Aleksandrovich *see* **Fok, N. V.**, (**2005b:01005**)
Fowler, William A. *see* **Greenberg, John**
Heisenberg, Werner Karl *see* **Bernstein, Jeremy**, **2005e:01019**
Birthday:
Kohn, Walter ★ Walter Kohn. **2005b:01051**
Fundamental physics—Heisenberg and beyond ★ Fundamental physics—Heisenberg and beyond. **2005f:81006**
Moscow ★ Исследования по истории физики и механики 2002. (Russian) [Studies in the history of physics and mechanics 2002] **2005c:01023**
Munich ★ Fundamental physics—Heisenberg and beyond. **2005f:81006**
Obituary:
Vigier, Jean-Pierre *see* **Holland, Peter**

Studies in the history of physics and mechanics 1998–1999 ★ Исследования по истории физики и механики 1998–1999. (Russian) [Studies in the history of physics and mechanics 1998–1999] **2005b:01005**

Studies in the history of physics and mechanics 2002 ★ Исследования по истории физики и механики 2002. (Russian) [Studies in the history of physics and mechanics 2002] **2005c:01023**

Walter Kohn ★ Walter Kohn. **2005b:01051**

81–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 81–04

Batle, J. (*with* Plastino, A. R.; Casas, M.; Plastino, Angel Luis) Inclusion relations among separability criteria. (English summary) **2005a:81015**

Casas, M. *see* **Batle, J. et al., 2005a:81015**

Chekanov, N. A. *see* **Gusev, Aleksandr A. et al., 2005m:81005**

Evangelou, S. N. (*with* Katsanos, D. E.) Quantum correlations from Brownian diffusion of chaotic level-spacings. (English summary) **2005h:81135**

Gusev, Aleksandr A. (*with* Chekanov, N. A.; Rostovtsev, V. A.; Vinitskiĭ, S. I.; Uwano, Yoshio) A comparison of algorithms for the normalization and quantization of polynomial Hamiltonians. (Russian. Russian summary) **2005m:81005**

Hart, Alistair (*with* von Hippel, G. M.; Horgan, R. R.; Storoni, L. C.) Automatically generating Feynman rules for improved lattice field theories. (English summary) **2005m:81223**

von Hippel, G. M. *see* **Hart, Alistair et al., 2005m:81223**

Horgan, R. R. *see* **Hart, Alistair et al., 2005m:81223**

Jahnke, Tobias Long-time-step integrators for almost-adiabatic quantum dynamics. (English summary) **2005h:65098**

Jędruch, Wojciech *see* **Waniewski, Jacek et al.**

Katsanos, D. E. *see* **Evangelou, S. N., 2005h:81135**

Plastino, A. R. *see* **Batle, J. et al., 2005a:81015**

Plastino, Angel Luis *see* **Batle, J. et al., 2005a:81015**

Rostovtsev, V. A. *see* **Gusev, Aleksandr A. et al., 2005m:81005**

Storoni, L. C. *see* **Hart, Alistair et al., 2005m:81223**

Uwano, Yoshio *see* **Gusev, Aleksandr A. et al., 2005m:81005**

Vinitskiĭ, S. I. *see* **Gusev, Aleksandr A. et al., 2005m:81005**

Waniewski, Jacek (*with* Jędruch, Wojciech; Żołek, Norbert S.) Dynamic stability and spatial heterogeneity in the individual-based modelling of a Lotka-Volterra gas. (English summary)

Żołek, Norbert S. *see* **Waniewski, Jacek et al.**

81–05 Experimental papers

Items with secondary classifications in 81–05

Abbott, Derek (*with* Doering, Charles R.; Caves, Carlton M.; Lidar, Daniel A.; Brandt, Howard E.; Hamilton, Alex R.; Ferry, David K.; Gea-Banacloche, Julio; Bezrukov, Sergey M.; Kish, Laszlo B.) Dreams versus reality: plenary debate session on quantum computing.

Adler, Stephen L. (*with* Bassi, Angelo; Ippoliti, Emiliano) Towards quantum superpositions of a mirror: an exact open systems analysis—calculational details. (English summary) **2005m:81015**

Aichele, Thomas *see* **Zwiller, Valéry et al., 2005k:81388**

Barrett, M. D. *see* **Chiaverini, J. et al., 2005k:81046**

Bassi, Angelo *see* **Adler, Stephen L. et al., 2005m:81015**

Beausoleil, R. G. (*with* Munro, William J.; Spiller, T. P.) Applications of coherent population transfer to quantum information processing. (English summary)

Beck, Mark *see* **Gogo, A. et al., 2005m:81029**

Benson, Oliver *see* **Zwiller, Valéry et al., 2005k:81388**

Bertlmann, Reinhold A. (*with* Durstberger, Katharina; Hasegawa, Yuji[2]; Hiesmayr, Beatrix C.) Berry phase in entangled systems: a proposed experiment with single neutrons. (English summary) **2005a:81081**

Bezrukov, Sergey M. *see* **Abbott, Derek et al.**

Blakestad, R. B. *see* **Chiaverini, J. et al., 2005k:81046**

Blinov, B. B. *see* **Duan, L.-M. et al.**

Brandt, Howard E. *see* **Abbott, Derek et al.**

Brida, G. (*with* Genovese, Marco; Gramegna, M.; Predazzi, E.) A conclusive experiment to throw more light on "light". (English summary)

Britton, Joe *see* **Chiaverini, J. et al., 2005k:81046**

Brukner, Časlav *see* **Walther, Philip et al., 2005k:81040**

Cabello, Adán (*with* López-Tarrida, Antonio J.) Proposed experiment for the quantum "guess my number" protocol. (English summary) **2005m:81021**

Castellani, Gianluca *see* **Sivasubramanian, Somu et al., 2005f:81304**

Caves, Carlton M. *see* **Abbott, Derek et al.**

Černoch, A. *see* **Gavenda, M. et al., 2005m:81027**

Chiaverini, J. (*with* Britton, Joe; Leibfried, D.; Knill, Emanuel; Barrett, M. D.; Blakestad, R. B.; Itano, W. M.; Jost, J. D.; Langer, Chris; Ozeri, R.; Schaetz, T.; Wineland, D. J.) Implementation of the semiclassical quantum Fourier transform in a scalable system. (English summary) **2005k:81046**

Das, Ranabir *see* **Gopinath, T. et al.**

Delgado, Aldo Hidalgo (*with* Roa, L.; Retamal, J. C.; Saavedra, C.) Entanglement swapping via quantum state discrimination. (English summary) **2005i:81010**

Doering, Charles R. *see* **Abbott, Derek et al.**

Duan, L.-M. (*with* Blinov, B. B.; Moehring, D. L.; Monroe, Christopher R.) Scalable trapped ion quantum computation with a probabilistic ion-photon mapping. (English summary)

Durstberger, Katharina *see* **Bertlmann, Reinhold A. et al., 2005a:81081**

Dušek, M. *see* **Gavenda, M. et al., 2005m:81027**

Fabiano, N. *see* **Sivasubramanian, Somu et al., 2005f:81304**

Ferry, David K. *see* **Abbott, Derek et al.**

Filip, R. *see* **Gavenda, M. et al., 2005m:81027**

Franson, J. D. *see* **Pittman, T. B. et al., 2005a:81030**

Gavenda, M. (*with* Černoch, A.; Soubusta, J.; Dušek, M.; Filip, R.) Knowledge excess duality and violation of Bell inequalities: theory and experiment. (English summary) **2005m:81027**

Gea-Banacloche, Julio *see* **Abbott, Derek et al.**

Genovese, Marco Research on hidden variable theories: a review of recent progresses. (English summary) **2005m:81008**

— *see also* **Brida, G. et al.**

Gogo, A. (*with* Snyder, W. D.; Beck, Mark) Comparing quantum and classical correlations in a quantum eraser. (English summary) **2005m:81029**

Gopinath, T. (*with* Das, Ranabir; Kumar, Anil[7]) Quantum information processing by NMR: implementation of inversion-on-equality gate, parity gate and fanout gate. (English summary)

Gramegna, M. *see* **Brida, G. et al.**

Guo, Guang-Can *see* **Ye, Liu, 2005b:81019**

Hamilton, Alex R. *see* **Abbott, Derek et al.**

Hasegawa, Yuji[2] *see* **Bertlmann, Reinhold A. et al., 2005a:81081**

Hess, Karl *see* **Philipp, Walter, 2005e:81030**

Hiesmayr, Beatrix C. *see* **Bertlmann, Reinhold A. et al., 2005a:81081**

Ippoliti, Emiliano *see* **Adler, Stephen L. et al., 2005m:81015**

Itano, W. M. *see* **Chiaverini, J. et al., 2005k:81046**

Jacobs, B. C. *see* **Pittman, T. B. et al., 2005a:81030**

Jaffe, Robert (*with* Wilczek, Frank) Diquarks and exotic spectroscopy. (English summary)

Jost, J. D. *see* **Chiaverini, J. et al., 2005k:81046**

Kish, Laszlo B. *see* **Abbott, Derek et al.**

Knill, Emanuel *see* **Chiaverini, J. et al., 2005k:81046**

Kracklauer, A. F. EPR-B correlations: quantum mechanics, or just geometry? (English summary)

Kumar, Anil[7] *see* **Gopinath, T. et al.**

Langer, Chris *see* **Chiaverini, J. et al., 2005k:81046**

Leibfried, D. *see* **Chiaverini, J. et al., 2005k:81046**

Lidar, Daniel A. *see* **Abbott, Derek et al.**

López-Tarrida, Antonio J. *see* **Cabello, Adán, 2005m:81021**

Malinovsky, Vladimir S. (*with* Sola, Ignacio R.) Quantum phase control of entanglement (English summary) **2005m:81065**

Mc Hugh, D. (*with* Twamley, J.) Sixth-order robust gates for quantum control. (English summary) **2005j:81049**

Miranowicz, Adam Decoherence of two maximally entangled qubits in a lossy nonlinear cavity. (English summary) **2005d:81065**

Moehring, D. L. *see* **Duan, L.-M. et al.**

Monroe, Christopher R. *see* **Duan, L.-M. et al.**

Munro, William J. *see* **Beausoleil, R. G. et al.**

Ozeri, R. *see* **Chiaverini, J. et al., 2005k:81046**

Pan, Jian-Wei *see* **Walther, Philip et al., 2005k:81040**

Philipp, Walter (*with* Hess, Karl) A local mathematical model for EPR-experiments. (English summary) **2005e:81030**

Pittman, T. B. (*with* Jacobs, B. C.; Franson, J. D.) Probabilistic quantum encoder for single-photon qubits. (English summary) **2005a:81030**

Predazzi, E. *see* **Brida, G. et al.**

Resch, K. J. *see* **Walther, Philip et al., 2005k:81040**

Retamal, J. C. *see* **Delgado, Aldo Hidalgo et al., 2005i:81010**

Roa, L. *see* **Delgado, Aldo Hidalgo et al., 2005i:81010**

Saavedra, C. *see* **Delgado, Aldo Hidalgo et al., 2005i:81010**

Schaetz, T. *see* **Chiaverini, J. et al., 2005k:81046**

Sivasubramanian, Somu (*with* Castellani, Gianluca; Fabiano, N.; Widom, A.; Swain, John; Srivastava, Y. N.; Vitiello, Giuseppe) Quantum limits on pixel resolution from non-commutative photon coordinates. (English summary) **2005f:81304**

Snyder, W. D. *see* **Gogo, A. et al., 2005m:81029**

Sola, Ignacio R. *see* **Malinovsky, Vladimir S., 2005m:81065**

Soubusta, J. *see* **Gavenda, M. et al., 2005m:81027**

Spallicci, Alessandro D. A. M. Satellite measurement of the Hannay angle. (English summary) **2005m:81124**

Spiller, T. P. *see* **Beausoleil, R. G. et al.**

Srivastava, Y. N. *see* **Sivasubramanian, Somu et al., 2005f:81304**

Steinberg, Aephraim M. *see* **Walther, Philip et al., 2005k:81040**

Stobińska, Magdalena (*with* Wódkiewicz, Krzysztof) Witnessing entanglement with second-order interference. (English summary) **2005m:81051**

Swain, John *see* **Sivasubramanian, Somu et al., 2005f:81304**

Twamley, J. *see* **Mc Hugh, D., 2005j:81049**

Vitiello, Giuseppe *see* **Sivasubramanian, Somu et al., 2005f:81304**

Walther, Philip (*with* Resch, K. J.; Brukner, Časlav; Steinberg, Aephraim M. Pan, Jian Wei; Zeilinger, Anton) Quantum nonlocality obtained from local states by entanglement purification. (English summary) **2005k:81040**

Widom, A. *see* **Sivasubramanian, Somu et al., 2005f:81304**

Wilczek, Frank *see* **Jaffe, Robert**

Wineland, D. J. *see* **Chiaverini, J. et al., 2005k:81046**

Wódkiewicz, Krzysztof *see* **Stobińska, Magdalena, 2005m:81051**

Ye, Liu (*with* Guo, Guang-Can) Scheme for entanglement concentration of atomic entangled states in cavity QED. (English summary) **2005b:81019**

Zeilinger, Anton *see* **Walther, Philip et al., 2005k:81040**

Zwiller, Valéry (*with* Aichele, Thomas; Benson, Oliver) Quantum optics with single quantum dot devices. (English summary) **2005k:81388**

81–06 Proceedings, conferences, collections, etc.

(Antoniadis, Ignatios) *see* **Strings 04. Part I, 2005j:81002** *and* **Strings 04. Part II, 2005j:81003**

(Belavin, A. A.) *see* **Proceedings: Workshop on Conformal Field Theory and Integrable Models, 6th International**
(Benton, Charles V.) *see* **Mathematical physics frontiers**
Bertolini, Matteo (*with* Demasure, Yves; Di Vecchia, Paolo; Kristjansen, Charlotte; Merlatti, Paolo; Obers, Niels A.) Editorial: Papers from the RTN Workshop on the Quantum Structure of Spacetime and the Geometric Nature of Fundamental Interactions.
(Blanchard, Philippe) *see* **Multiscale methods in quantum mechanics, 2005c:81007**
Bonifacio, Rodolfo (*with* Englert, Berthold-Georg; Paris, Matteo G. A.) Preface [Special issue: Mysteries, puzzles and paradoxes in quantum mechanics V].
(Buschhorn, Gerd W.) *see* **Fundamental physics—Heisenberg and beyond, 2005f:81006**
(Corrigan, Edward) *see* **Proceedings: Workshop on Conformal Field Theory and Integrable Models, 6th International**
(Dell'Antonio, Gianfausto) *see* **Multiscale methods in quantum mechanics, 2005c:81007**
Demasure, Yves *see* **Bertolini, Matteo et al.**
Di Vecchia, Paolo *see* **Bertolini, Matteo et al.**
(Dorn, Harald) *see* **Proceedings: Symposium on the Theory of Elementary Particles, 36th International, Ahrenshoop**
(Douglas, Michael R.) *see* **Strings and geometry, 2005g:81004**
(Elze, Hans-Thomas) *see* **Decoherence and entropy in complex systems, 2005c:81005**
Englert, Berthold-Georg *see* **Bonifacio, Rodolfo et al.**
(Faddeev, L. D.) *see* **Fok, Vladimir Aleksandrovich, 2005m:81003**
(Feynman, R. P.) *see* **Stochastic analysis and mathematical physics (SAMP/ANESTOC 2002), 2005i:81001**
Fok, Vladimir Aleksandrovich ★ Selected works. Quantum mechanics and quantum field theory. **2005m:81003**
Fukuma, M. (*with* Itoyama, Hiroshi; Nakatsu, Toshio; Tsuchiya, Asato) Preface [String theory].
(Gauntlett, Jerome P.) *see* **Strings and geometry, 2005g:81004**
(Gidopoulos, N. I.) *see* **Fundamentals of electron density, density matrix and density functional theory in atoms, molecules and the solid state, 2005a:81003**
(Gross, Mark) *see* **Strings and geometry, 2005g:81004**
(Heisenberg, Werner Karl) *see* **Fundamental physics—Heisenberg and beyond, 2005f:81006**
Itoyama, Hiroshi *see* **Fukuma, M. et al.**
Jamiołkowski, Andrzej (*with* Jurkowski, J.; Michalski, Miłosz; Życzkowski, Karol) Editorial note [36th Symposium on Mathematical Physics and the International Conference "Entanglement, Information and Noise"].
Jurkowski, J. *see* **Jamiołkowski, Andrzej et al.**
(Khalfin, L. A.) *see* **Fok, Vladimir Aleksandrovich, 2005m:81003**
(Khrennikov, Andrei Yu.) *see* **Foundations of probability and physics, 2005c:81006**
(Komarov, I. V.) *see* **Fok, Vladimir Aleksandrovich, 2005m:81003**
Kristjansen, Charlotte *see* **Bertolini, Matteo et al.**
(Lüst, Dieter) *see* **Proceedings: Symposium on the Theory of Elementary Particles, 36th International, Ahrenshoop**
Merlatti, Paolo *see* **Bertolini, Matteo et al.**
Michalski, Miłosz *see* **Jamiołkowski, Andrzej et al.**
Nakatsu, Toshio *see* **Fukuma, M. et al.**
Obers, Niels A. *see* **Bertolini, Matteo et al.**
Paris, Matteo G. A. *see* **Bonifacio, Rodolfo et al.**
(Pugai, Yaroslav) *see* **Proceedings: Workshop on Conformal Field Theory and Integrable Models, 6th International**
(Rebolledo, Rolando) *see* **Stochastic analysis and mathematical physics (SAMP/ANESTOC 2002), 2005i:81001**
(Rezende, Jorge) *see* **Stochastic analysis and mathematical physics (SAMP/ANESTOC 2002), 2005i:81001**
Russo, Jorge G. Preface: Lectures from the European RTN Winter School on Strings, Supergravity and Gauge Fields, Barcelona, 12–16 January 2004.
Tsuchiya, Asato *see* **Fukuma, M. et al.**
(Wess, Julius) *see* **Fundamental physics—Heisenberg and beyond, 2005f:81006**
(Wilson, Stephen) *see* **Fundamentals of electron density, density matrix and density functional theory in atoms, molecules and the solid state, 2005a:81003**
(Zambrini, Jean-Claude) *see* **Stochastic analysis and mathematical physics (SAMP/ANESTOC 2002), 2005i:81001**
(Znojil, Miloslav) *see* **Pseudo-Hermitian Hamiltonians in quantum physics**
Życzkowski, Karol *see* **Jamiołkowski, Andrzej et al.**

Items listed otherwise than by author

Abingdon-on-Thames ★ The fundamentals of electron density, density matrix and density functional theory in atoms, molecules and the solid state. **2005a:81003**
Berlin-Schmöckwitz, 2003 ★ Proceedings of the 36th International Symposium Ahrenshoop on the Theory of Elementary Particles.
Cambridge ★ Strings and geometry. **2005g:81004**
Chernogolovka ★ Proceedings of 6th International Workshop on Conformal Field Theory and Integrable Models.
Classical and quantum integrable systems ★ Классические и квантовые интегрируемые системы. (Russian) [Classical and quantum integrable systems] **2005m:81004**
Decoherence and entropy in complex systems ★ Decoherence and entropy in complex systems. **2005c:81005**
Dubna ★ Классические и квантовые интегрируемые системы. (Russian) [Classical and quantum integrable systems] **2005m:81004**
Foundations of probability and physics ★ Foundations of probability and physics. **2005c:81006**
Fundamental physics—Heisenberg and beyond ★ Fundamental physics—Heisenberg and beyond. **2005f:81006**
Fundamentals of electron density, density matrix and density functional theory in atoms, molecules and the solid state ★ The fundamentals of electron density, density matrix and density functional theory in atoms, molecules and the solid state. **2005a:81003**
Lecture Notes in Physics ★ Decoherence and entropy in complex systems. **2005c:81005**
Lisbon ★ Stochastic analysis and mathematical physics (SAMP/ANESTOC 2002). **2005i:81001**
Mathematical physics frontiers ★ Mathematical physics frontiers.
Multiscale methods in quantum mechanics ★ Multiscale methods in quantum mechanics. **2005c:81007**
Munich ★ Fundamental physics—Heisenberg and beyond. **2005f:81006**
Paris ★ Strings 04. Part I. **2005j:81002**
— ★ Strings 04. Part II. **2005j:81003**
Piombino ★ Decoherence and entropy in complex systems. **2005c:81005**
Prague ★ Quantum groups and integrable systems.
— ★ Pseudo-Hermitian Hamiltonians in quantum physics.
Proceedings:
  Symposium on the Theory of Elementary Particles, 36th International, Ahrenshoop ★ Proceedings of the 36th International Symposium Ahrenshoop on the Theory of Elementary Particles.
  Workshop on Conformal Field Theory and Integrable Models, 6th International ★ Proceedings of 6th International Workshop on Conformal Field Theory and Integrable Models.
Pseudo-Hermitian Hamiltonians in quantum physics ★ Pseudo-Hermitian Hamiltonians in quantum physics.
Quantum groups and integrable systems ★ Quantum groups and integrable systems.
— Quantum groups and integrable systems.
Rome ★ Multiscale methods in quantum mechanics. **2005c:81007**
Santiago ★ Stochastic analysis and mathematical physics (SAMP/ANESTOC 2002). **2005i:81001**
Selected works. Quantum mechanics and quantum field theory *see* **Fok, Vladimir Aleksandrovich, 2005m:81003**
Stochastic analysis and mathematical physics (SAMP/ANESTOC 2002) ★ Stochastic analysis and mathematical physics (SAMP/ANESTOC 2002). **2005i:81001**
Strings 04. Part I ★ Strings 04. Part I. **2005j:81002**
Strings 04. Part II ★ Strings 04. Part II. **2005j:81003**
Strings and geometry ★ Strings and geometry. **2005g:81004**
Växjö ★ Foundations of probability and physics. **2005c:81006**

Items with secondary classifications in 81–06

Aizenman, Michael *see* **Douglas, Michael R. et al.**
(Al'beverio, S.) *see* **Proceedings: Conference on Stochastic Analysis and Applications, International, 2005g:60007**
(Albuquerque, Helena) *see* **Proceedings: Workshop on Geometry and Physics, 12th Fall, 2005i:53003**
Applebaum, David (*with* Bhat, B. V. Rajarama; Kustermans, Johan; Lindsay, J. Martin) ★ Quantum independent increment processes. I. **2005j:81087**
Aref'eva, I. Ya. (*with* Fernández C., David J.; Hussin, Véronique; Negro, Javier; Nieto, Luis M.; Samsonov, Boris F.) Preface [International Conference on Progress in Supersymmetric Quantum Mechanics].
(Arodz, Henryk) *see* **Patterns of symmetry breaking, 2005a:82002**
(Asorey, Manuel) *see* **Renormalization group and anomalies in gravity and cosmology**
(Benton, Charles V.) *see* **Mathematical physics research at the cutting edge, 2005a:00002** *and* **Trends in mathematical physics research, 2005c:00012**
Bhat, B. V. Rajarama *see* **Applebaum, David et al., 2005j:81087**
(Boĭko, V. M.) *see* **Symmetry in nonlinear mathematical physics. Part 1, 2, 3**
(Boutet de Monvel-Berthier, Anne-Marie) *see* **Proceedings: Conference on Stochastic Analysis and Applications, International, 2005g:60007**
(Braunstein, Samuel L.) *see* **Quantum information with continuous variables, 2005d:81106**
(Caseiro, R.) *see* **Proceedings: Workshop on Geometry and Physics, 12th Fall, 2005i:53003**
(Chen, Jin Quan) *see* **Beauty of mathematics in science, 2005b:00031**
(Clemente-Gallardo, J.) *see* **Proceedings: Workshop on Geometry and Physics, 12th Fall, 2005i:53003**
(Cronström, Christofer) *see* **Proceedings: Symposium on Theoretical Physics, Gunnar Nordström, 2005f:83002**
Douglas, Michael R. (*with* Lebowitz, Joel L.; Sarnak, Peter; Aizenman, Michael) Preface: [Dedicated to Freeman Dyson].
(Dyson, Freeman J.) *see* **Douglas, Michael R. et al.**
(Dziarmaga, Jacek) *see* **Patterns of symmetry breaking, 2005a:82002**
(Egorchenko, I. A.) *see* **Symmetry in nonlinear mathematical physics. Part 1, 2, 3**
(Engelbrecht, Chris) *see* **Fundamentals of quantum information, 2005d:81105**
(Esposito, Salvatore) *see* **Majorana, Ettore, 2005d:81003**
(Feng, D. H.) *see* **Beauty of mathematics in science, 2005b:00031**
Fernández C., David J. *see* **Aref'eva, I. Ya. et al.**
(Franz, Uwe[1]) *see* **Applebaum, David et al., 2005j:81087**
(Harnad, John) *see* **Superintegrability in classical and quantum systems, 2005g:00018**
(Heiss, W. Dieter) *see* **Fundamentals of quantum information, 2005d:81105**
(Hora, Akihito) *see* **Non-commutativity, infinite-dimensionality and probability at the crossroads, 2005a:81119**
Hussin, Véronique *see* **Aref'eva, I. Ya. et al.**
(Iachello, F.) *see* **Beauty of mathematics in science, 2005b:00031**
(Iagolnitzer, Daniel) *see* **Conference: Theoretical Physics, International**
(Idlis, G. M.) *see* **Studies in the history of physics and mechanics 1998–1999, 2005b:01005**
(Khrennikov, Andrei Yu.) *see* **Quantum theory: reconsideration of foundations—2, 2005h:81006**
Kustermans, Johan *see* **Applebaum, David et al., 2005j:81087**
Lebowitz, Joel L. *see* **Douglas, Michael R. et al.**
(Le Bris, Claude) *see* **Handbook: Numerical analysis, 2005c:81001**
Lindsay, J. Martin *see* **Applebaum, David et al., 2005j:81087**
Majorana, Ettore ★ Ettore Majorana: notes on theoretical physics. **2005d:81003**
(Majorana, Ettore, Jr.) *see* **Majorana, Ettore, 2005d:81003**
(Matsui, Taku) *see* **Non-commutativity, infinite-dimensionality and probability at the crossroads, 2005a:81119**
(van der Merwe, Alwyn) *see* **Majorana, Ettore, 2005d:81003**
(Miller, Willard, Jr.) *see* **Superintegrability in classical and quantum systems, 2005g:00018**
(Montonen, Claus) *see* **Proceedings: Symposium on Theoretical Physics, Gunnar Nordström, 2005f:83002**

Negro, Javier *see* **Aref'eva, I. Ya. et al.**
Nieto, Luis M. *see* **Aref'eva, I. Ya. et al.**
(Nikitin, Anatolii G.) *see* **Symmetry in nonlinear mathematical physics. Part 1, 2, 3**
(Nordström, Gunnar) *see* **Proceedings: Symposium on Theoretical Physics, Gunnar Nordström, 2005f:83002**
(Nunes da Costa, J. M.) *see* **Proceedings: Workshop on Geometry and Physics, 12th Fall, 2005i:53003**
(Obata, Nobuaki) *see* **Non-commutativity, infinite-dimensionality and probability at the crossroads, 2005a:81119**
(Ouerdiane, Habib) *see* **Proceedings: Conference on Stochastic Analysis and Applications, International, 2005g:60007**
(Pati, Arun K.) *see* **Quantum information with continuous variables, 2005d:81106**
(Ping, Jia Lun) *see* **Beauty of mathematics in science, 2005b:00031**
(Pogosyan, George S.) *see* **Superintegrability in classical and quantum systems, 2005g:00018**
(Popovych, Roman O.) *see* **Symmetry in nonlinear mathematical physics. Part 1, 2, 3**
(Recami, Erasmo) *see* **Majorana, Ettore, 2005d:81003**
(Rivasseau, Vincent) *see* **Conference: Theoretical Physics, International**
(Rodríguez, Miguel Angel[2]) *see* **Superintegrability in classical and quantum systems, 2005g:00018**
Samsonov, Boris F. *see* **Aref'eva, I. Ya. et al.**
Sarnak, Peter *see* **Douglas, Michael R. et al.**
(Schürmann, Michael) *see* **Applebaum, David et al., 2005j:81087**
(Segal, Graeme) *see* **Topology, geometry and quantum field theory, 2005b:00034**
(Shapiro, Ilya L.) *see* **Renormalization group and anomalies in gravity and cosmology**
(Teles, J.) *see* **Proceedings: Workshop on Geometry and Physics, 12th Fall, 2005i:53003**
(Tempesta, Piergiulio) *see* **Superintegrability in classical and quantum systems, 2005g:00018**
(Tillmann, Ulrike) *see* **Topology, geometry and quantum field theory, 2005b:00034**
(Wang, Fan[1]) *see* **Beauty of mathematics in science, 2005b:00031**
(Winternitz, Pavel) *see* **Superintegrability in classical and quantum systems, 2005g:00018**
(Wurzbacher, Tilmann) *see* **Infinite dimensional groups and manifolds, 2005g:00011**
(Zinn-Justin, Jean) *see* **Conference: Theoretical Physics, International**
(Zurek, Wojciech Hubert) *see* **Patterns of symmetry breaking, 2005a:82002**

Items listed otherwise than by author

Beauty of mathematics in science ★ The beauty of mathematics in science. **2005b:00031**
Coimbra ★ Proceedings of the XII Fall Workshop on Geometry and Physics. **2005i:53003**
Conference:
Theoretical Physics, International ★ International Conference on Theoretical Physics.
Cracow ★ Patterns of symmetry breaking. **2005a:82002**
Ettore Majorana: notes on theoretical physics *see* **Majorana, Ettore, 2005d:81003**
Fundamentals of quantum information ★ Fundamentals of quantum information. **2005d:81105**
Greifswald *see* **Applebaum, David et al., 2005j:81087**
Hammamet ★ Proceedings of the International Conference on Stochastic Analysis and Applications. **2005g:60007**
Handbook:
Numerical analysis ★ Handbook of numerical analysis. Vol. X. **2005c:81001**
Helsinki ★ Proceedings of the Gunnar Nordström Symposium on Theoretical Physics. **2005f:83002**
Infinite dimensional groups and manifolds ★ Infinite dimensional groups and manifolds. **2005g:00011**
Kyiv ★ Symmetry in nonlinear mathematical physics. Part 1, 2, 3.
Kyoto ★ Non-commutativity, infinite-dimensionality and probability at the crossroads. **2005a:81119**
Lecture Notes in Mathematics *see* **Applebaum, David et al., 2005j:81087**
Lecture Notes in Physics ★ Fundamentals of quantum information. **2005d:81105**
Mathematical physics research at the cutting edge ★ Mathematical physics research at the cutting edge. **2005a:00002**
Montréal, QC ★ Superintegrability in classical and quantum systems. **2005g:00018**
Non-commutativity, infinite-dimensionality and probability at the crossroads ★ Non-commutativity, infinite-dimensionality and probability at the crossroads. **2005a:81119**
Ouro Preto ★ Renormalization group and anomalies in gravity and cosmology.
Oxford ★ Topology, geometry and quantum field theory. **2005b:00034**
Paris ★ International Conference on Theoretical Physics.
Patterns of symmetry breaking ★ Patterns of symmetry breaking. **2005a:82002**
Proceedings:
Conference on Stochastic Analysis and Applications, International ★ Proceedings of the International Conference on Stochastic Analysis and Applications. **2005g:60007**
Symposium on Theoretical Physics, Gunnar Nordström ★ Proceedings of the Gunnar Nordström Symposium on Theoretical Physics. **2005f:83002**
Workshop on Geometry and Physics, 12th Fall ★ Proceedings of the XII Fall Workshop on Geometry and Physics. **2005i:53003**
Quantum independent increment processes. I *see* **Applebaum, David et al., 2005j:81087**
Quantum information with continuous variables ★ Quantum information with continuous variables. **2005d:81106**
Quantum theory: reconsideration of foundations—2 ★ Quantum theory: reconsideration of foundations—2. **2005h:81006**
Renormalization group and anomalies in gravity and cosmology ★ Renormalization group and anomalies in gravity and cosmology.
Stellenbosch ★ Fundamentals of quantum information. **2005d:81105**
Studies in the history of physics and mechanics 1998–1999 ★ Исследования по истории физики и механики 1998–1999. (Russian) [Studies in the history of physics and mechanics 1998–1999] **2005b:01005**
Superintegrability in classical and quantum systems ★ Superintegrability in classical and quantum systems. **2005g:00018**
Symmetry in nonlinear mathematical physics. Part 1, 2, 3 ★ Symmetry in nonlinear mathematical physics. Part 1, 2, 3.
Topology, geometry and quantum field theory ★ Topology, geometry and quantum field theory. **2005b:00034**
Trends in mathematical physics research ★ Trends in mathematical physics research. **2005c:00012**
Växjö ★ Quantum theory: reconsideration of foundations—2. **2005h:81006**

81–08 Computational methods

Arkhipov, A. S. (*with* Lozovik, Yu. E.) New method of quantum dynamics simulation based on the quantum tomography. (English summary) **2005d:81004**
Buongiorno Nardelli, Marco *see* **Fattebert, Jean-Luc, (2005c:81001)**
Chekanov, N. A. *see* **Gusev, Aleksandr A. et al., 2005m:81005**
Faghihi, F. Numerical minimization procedures of the adiabatic approximation wavefunction. (English summary)
Fattebert, Jean-Luc (*with* Buongiorno Nardelli, Marco) Finite difference methods for ab initio electronic structure and quantum transport calculations of nanostructures. (*see* **2005c:81001**)
(Gümüş, S.) *see* **Guseinov, Israfil**
Guseinov, Israfil Analytical evaluation of multicenter multielectron integrals of central and noncentral interaction potentials over Slater orbitals using overlap integrals and auxiliary functions. (English summary)
— Comment on: "Calculation of two-center nuclear attraction integrals over integer and noninteger *n*-Slater type orbitals in nonlined-up coordinate systems" [J. Math. Chem. 33 (2003), no. 3-4, 181–188; MR1997433 (2004e:81230)] by T. Özdoğan, S. Gümüş and M. Kara. (English summary)
Gusev, Aleksandr A. (*with* Chekanov, N. A.; Rostovtsev, V. A.; Vinitskiĭ, S. I.; Uwano, Yoshio) A comparison of algorithms for the normalization and quantization of polynomial Hamiltonians. (Russian. Russian summary) **2005m:81005**
(Kara, Mehmet) *see* **Guseinov, Israfil**
Lozovik, Yu. E. *see* **Arkhipov, A. S., 2005d:81004**
(Özdoğan, Telhat) *see* **Guseinov, Israfil**
Rostovtsev, V. A. *see* **Gusev, Aleksandr A. et al., 2005m:81005**
Uwano, Yoshio *see* **Gusev, Aleksandr A. et al., 2005m:81005**
Vinitskiĭ, S. I. *see* **Gusev, Aleksandr A. et al., 2005m:81005**

Items with secondary classifications in 81–08

Abodayeh, Kamaleldin *see* **Barakat, T. et al., 2005j:81051**
Alhaidari, A. D. Corrigendum: "Scattering phase shift for relativistic exponential-type separable potentials" [J. Phys. A. **34** (2001), no. 50, 11273–11286; MR1874141 (2003a:81215)].
Bao, Weizhu (*with* Jin, Shi; Markowich, Peter A.) Numerical study of time-splitting spectral discretizations of nonlinear Schrödinger equations in the semiclassical regimes. (English summary) **2005b:65113**
Barakat, T. (*with* Abodayeh, Kamaleldin; Mukheimer, Aiman) The asymptotic iteration method for the angular spheroidal eigenvalues. (English summary) **2005j:81051**
Braunstein, Samuel L. *see* **Brown, Iain D. K. et al., 2005m:81020**
Brown, Iain D. K. (*with* Stepney, Susan; Sudbery, Anthony; Braunstein, Samuel L.) Searching for highly entangled multi-qubit states. (English summary) **2005m:81020**
Cancès, Eric (*with* Defranceschi, Mireille; Kutzelnigg, Werner; Le Bris, Claude; Maday, Yvon) Computational quantum chemistry: a primer. (*see* **2005c:81001**)
Childs, Andrew M. (*with* Goldstone, Jeffrey) Spatial search and the Dirac equation. (English summary)
Cova, R. J. (*with* Zakrzewski, Wojciech J.) Scattering of periodic solitons. (English and Spanish summaries) **2005f:81137**
Defranceschi, Mireille *see* **Cancès, Eric et al., (2005c:81001)**
Desclaux, J. P. (*with* Dolbeault, Jean; Esteban, Maria J.; Indelicato, P.; Séré, E.) Computational approaches of relativistic models in quantum chemistry. (*see* **2005c:81001**)
Dolbeault, Jean *see* **Desclaux, J. P. et al., (2005c:81001)**
Egusquiza, I. L. *see* **Muga, J. G. et al., 2005a:81256**
Esteban, Maria J. *see* **Desclaux, J. P. et al., (2005c:81001)**
Field, Martin John Simulating chemical reactions in complex systems. (*see* **2005c:81001**)
Goldstone, Jeffrey *see* **Childs, Andrew M.**
Gupta, Pritha *see* **Marmorino, M. G., 2005d:81143**
Guseinov, Israfil (*with* Mamedov, Bahtiyar) Evaluation of multicenter electronic attraction, electric field and electric field gradient integrals with screened and nonscreened Coulomb potentials over integer and noninteger *n* slater orbitals. (English summary)
Hon, Yiu-Chung *see* **Wong, A. S. M., (2005i:00016)**
Hwang, Tsung-Min (*with* Lin, Wen Wei; Wang, Wei-Cheng; Wang, Weichung) Numerical simulation of three dimensional pyramid quantum dot. (English summary) **2005a:81057**
Indelicato, P. *see* **Desclaux, J. P. et al., (2005c:81001)**
Jahnke, Tobias Long-time-step integrators for almost-adiabatic quantum dynamics. (English summary) **2005h:65098**
Jin, Shi *see* **Bao, Weizhu et al., 2005b:65113**
Kamberaj, H. (*with* Low, R. J.; Neal, M. P.) Symplectic and time reversible integrator for rigid bodies. (English summary) **2005b:70002**
Kevrekidis, Ioannis G. *see* **Passerone, Daniele, (2005d:65007)**
Kutzelnigg, Werner *see* **Cancès, Eric et al., (2005c:81001)**
Le Bris, Claude *see* **Handbook: Numerical analysis, 2005c:81001** *and* **Cancès, Eric et al., (2005c:81001)**
Li, Yiming (*with* Yu, Shao-Ming) A parallel adaptive finite volume method for nanoscale double-gate MOSFETs simulation. (English summary)
Lin, Wen Wei *see* **Hwang, Tsung-Min et al., 2005a:81057**
Low, R. J. *see* **Kamberaj, H. et al., 2005b:70002**
Maday, Yvon (*with* Turinici, Gabriel) Error bars and quadratically convergent methods for the numerical simulation of the Hartree-Fock equations. (English summary) **2005c:81050**
— *see also* **Cancès, Eric et al., (2005c:81001)**
Mamedov, Bahtiyar *see* **Guseinov, Israfil**
Markowich, Peter A. *see* **Bao, Weizhu et al., 2005b:65113**
Marmorino, M. G. (*with* Gupta, Pritha) Surpassing the Temple lower bound. (English summary) **2005d:81143**

Muga, J. G. (*with* Palao, J. P.; Navarro, B.; Egusquiza, I. L.) Complex absorbing potentials. (English summary) **2005a:81256**
Mukheimer, Aiman *see* **Barakat, T. et al., 2005j:81051**
Nagashima, Umpei *see* **Yamamoto, Shigeyoshi, 2005j:81211**
Nanayakkara, Asiri New semiclassical and numerical approaches to locate zeros of wave functions. (English summary) **2005h:81132**
Navarro, B. *see* **Muga, J. G. et al., 2005a:81256**
Neal, M. P. *see* **Kamberaj, H. et al., 2005b:70002**
Palao, J. P. *see* **Muga, J. G. et al., 2005a:81256**
Passerone, Daniele (*with* Kevrekidis, Ioannis G.) Exploration of coarse free energy surfaces templated on continuum numerical methods. (English summary) (*see* **2005d:65007**)
Ram-Mohan, L. Ramdas ★ Finite element and boundary element applications in quantum mechanics. **2005h:81001**
Rasch, J. (*with* Yu, A. C. H.) Efficient storage scheme for precalculated Wigner $3j$, $6j$ and Gaunt coefficients. (English summary) **2005k:81100**
Séré, E. *see* **Desclaux, J. P. et al., (2005c:81001)**
Simos, T. E. Exponentially-fitted multiderivative methods for the numerical solution of the Schrödinger equation. (English summary) **2005f:65092**
Stepney, Susan *see* **Brown, Iain D. K. et al., 2005m:81020**
Sudbery, Anthony *see* **Brown, Iain D. K. et al., 2005m:81020**
Turinici, Gabriel *see* **Maday, Yvon, 2005c:81050**
Wang, Wei-Cheng *see* **Hwang, Tsung-Min et al., 2005a:81057**
Wang, Weichung *see* **Hwang, Tsung-Min et al., 2005a:81057**
Wong, A. S. M. (*with* Hon, Yiu-Chung) Numerical approximations for Thomas-Fermi model using radial basis functions. (English summary) (*see* **2005i:00016**)
Yamamoto, Shigeyoshi (*with* Nagashima, Umpei) Four-index integral transformation exploiting symmetry. (English summary) **2005j:81211**
Ying, Long An *see* **Zheng, Wei-ying, 2005d:81390**
Yu, A. C. H. *see* **Rasch, J., 2005k:81100**
Yu, Shao-Ming *see* **Li, Yiming**
Zakrzewski, Wojciech J. *see* **Cova, R. J., 2005f:81137**
Zheng, Wei-ying (*with* Ying, Long An) Finite element approximations to the discrete spectrum of the Schrödinger operator with the Coulomb potential. (English summary) **2005d:81390**

Items listed otherwise than by author

Handbook:
Numerical analysis ★ Handbook of numerical analysis. Vol. X. **2005c:81001**

81Pxx Axiomatics, foundations, philosophy

Adler, Stephen L. ★ Quantum theory as an emergent phenomenon. **2005g:81005**
(Khrennikov, Andrei Yu.) *see* **Quantum theory: reconsideration of foundations—2, 2005h:81006**

Items listed otherwise than by author

Quantum theory: reconsideration of foundations—2 ★ Quantum theory: reconsideration of foundations—2. **2005h:81006**
Växjö ★ Quantum theory: reconsideration of foundations—2. **2005h:81006**

81P05 General and philosophical

Aaronson, Scott Is quantum mechanics an island in theoryspace? (English summary) **2005h:81007**
Abolhasani, M. (*with* Golshani, M.) Localizability and quantum behaviour. (English summary) **2005g:81006**
Aerts, Diederik Being and change: foundations of a realistic operational formalism. (English summary) **2005a:81004**
— (*with* Deses, Didier) State property systems and closure spaces: extracting the classical en nonclassical parts. (English summary) **2005c:81008**
— Reality and probability: introducing a new type of probability calculus. (English summary) **2005c:81009**
— (*with* Valckenborgh, Frank) Failure of standard quantum mechanics for the description of compound quantum entities. (English summary) **2005d:81005**
Aerts, S. Probability conservation and the state determination problem. (English summary) **2005e:81006**
Allori, Valia (*with* Zanghì, Nino) What is Bohmian mechanics. (English summary) **2005k:81002**
d'Almeida, Jorge Manuel Amaro (*with* de Freitas, J. A. Teixeira) The space of state vectors: a hyperfinite approach. (English summary) **2005g:81007**
Anastopoulos, Charis Quantum versus stochastic processes and the role of complex numbers. (English summary) **2005b:81001**
Andreev, Vladimir A. (*with* Man'ko, Vladimir I.) The Bell inequality for two-particle mixed spin states. (Russian. Russian summary) **2005g:81008**
Antonopoulos, Constantin Reciprocity, complementarity and minimal action. (English summary) **2005g:81009**
Aravind, P. K. Quantum mysteries revisited again. (English summary)
Archer, Claude There is no generalization of known formulas for mutually unbiased bases. (English summary) **2005k:81003**
Auletta, Gennaro (*with* Tarozzi, Gino) On the physical reality of quantum waves. (English summary)
Bacciagaluppi, Guido Classical extensions, classical representations and Bayesian updating in quantum mechanics. (English summary) **2005h:81008**
Ballentine, L. E. The classical limit of quantum mechanics and its implications for the foundations of quantum mechanics. (English summary) **2005h:81009**
Barbieri, Marco (*with* De Martini, F.; Di Nepi, G.; Mataloni, P.) Towards a test of non-locality without "supplementary assumptions". (English summary) **2005h:81010**
Barnum, Howard The view from everywhere: convex operational theories, quantum information, quantum foundations and the coordination of quantum agents' perspectives. (English summary) **2005k:81004**
Barrett, Jonathan (*with* Kent, Adrian) Non-contextuality, finite precision measurement and the Kochen-Specker theorem. (English summary) **2005d:81006**
Belavkin, Vyacheslav P. Eventum mechanics as the crossroad of probability, infinite-dimensionality and non-commutativity. (English summary) **2005c:81010**
Belousek, Darrin W. Underdetermination, realism, and theory appraisal: an epistemological reflection on quantum mechanics. (English summary) **2005m:81006**
Belyĭ, S. V. *see* **Menon, Govind K., 2005d:81022**
Bender, Carl M. (*with* Brody, Dorje C.; Meister, Bernhard K.) Unusual quantum states: non-locality, entropy, Maxwell's demon and fractals. (English summary) **2005k:81005**
Bishop, Robert C. Arrow of time in rigged Hilbert space quantum mechanics. (English summary) **2005h:81011**
Bodurov, Theodore Particle-wave duality for spatially-localized complex fields. I. The assumptions and some consequences. (English summary) **2005d:81007**
— Particle-wave duality for spatially-localized complex fields. II. De Broglie-type relations. (English summary) **2005d:81008**
Bohr, Aage (*with* Mottelson, Ben R.; Ulfbeck, Ole) The principle underlying quantum mechanics. (English summary) **2005c:81011**
Bolivar, A. O. ★ Quantum-classical correspondence. **2005e:81007**
Brading, Katherine (*with* Brown, Harvey R.) Are gauge symmetry transformations observable? (English summary) **2005m:81007**
Brodlie, Alastair (*with* Kisil, Vladimir V.) Observables and states in p-mechanics. (English summary) **2005k:81006**
Brody, Dorje C. Shapes of quantum states. (English summary) **2005f:81007**
— *see also* **Bender, Carl M. et al., 2005k:81005**
Brown, Harvey R. *see* **Brading, Katherine, 2005m:81007**
Brun, Todd A. Probability in decoherent histories. (English summary) **2005h:81012**
Bub, Jeffrey Why the quantum? (English summary) **2005j:81004**
Buscemi, F. (*with* Compagno, G.) Causality and localization operators. (English summary) **2005h:81013**
Busch, P. Less (precision) is more (information): quantum information in fuzzy probability theory. (English summary) **2005j:81005**
Caldwell, Shane A. *see* **Hyman, Ross et al., 2005f:81012**
Cambini, Rodolfo (*with* Porto, Rafael A.) A physical distinction between a covariant and a non-covariant reduction process in relativistic quantum theories. (English summary)
Carbó-Dorca, Ramon Infinite-dimensional time vectors as background building blocks of a space-time frame structure. (English summary) **2005e:81008**
Carter, Brandon Anthropic interpretation of quantum theory. (English summary) **2005g:81010**
Castagnino, M. A. (*with* Lara, Luis; Lombardi, Olimpia) The direction of time: from the global arrow to the local arrow. (English summary) **2005c:81012**
Célérier, Marie-Noëlle (*with* Nottale, Laurent) Quantum-classical transition in scale relativity. (English summary) **2005h:81014**
Chen, B. *see* **Wang, Zhi Yong et al., 2005c:81016**
Chen, Zeqian General proof of the Greenberger-Horne-Zeilinger theorem. (English summary) **2005h:81015**
Chryssomalakos, Chryssomalis (*with* Đurđević, Mićo) Higher order measures, generalized quantum mechanics and Hopf algebras. (English summary) **2005d:81009**
Coecke, Bob Forcing discretization and determination in quantum history theories. (English summary) **2005d:81010**
Colijn, C. (*with* Vrscay, E. R.) Quantum relaxation in hydrogen eigenstates and two-state transitions. (English summary) **2005d:81011**
Compagno, G. *see* **Buscemi, F., 2005h:81013**
Croca, J. R. De Broglie tired light model and the reality of the quantum waves. (English summary)
Dalton, Edward *see* **Hyman, Ross et al., 2005f:81012**
Davies, Paul C. W. Quantum mechanics and the equivalence principle. (English summary) **2005d:81012**
Dell'Antonio, Gianfausto Towards a theory of decoherence. (English summary) **2005e:81009**
De Martini, F. *see* **Barbieri, Marco et al., 2005h:81010**
Demopoulos, William Elementary propositions and essentially incomplete knowledge: a framework for the interpretation of quantum mechanics. (English summary) **2005c:81013**
Deses, Didier *see* **Aerts, Diederik, 2005c:81008**
Dewdney, Chris *see* **Horton, George Mountjoy, 2005g:81013**
DeWitt, Bryce S. Probability in the deterministic theory known as quantum mechanics. (*see* **2005j:83002**)
— The Everett interpretation of quantum mechanics.
Dickson, W. Michael Quantum reference frames in the context of EPR. (English summary)
— A view from nowhere: quantum reference frames and uncertainty. (English summary) **2005b:81002**
Di Nepi, G. *see* **Barbieri, Marco et al., 2005h:81010**
Diósi, Lajos Anomalies of weakened decoherence criteria for quantum histories. (English summary) **2005a:81005**
Dragović, Branko G. p-adic and adelic quantum mechanics. (English summary) **2005g:81011**
Dugić, Miroljub On the investigation of separability of a bipartite system observable. (English summary)
Đurđević, Mićo *see* **Chryssomalakos, Chryssomalis, 2005d:81009**
Dürr, Detlef (*with* Goldstein, Sheldon; Tumulka, Roderich; Zanghì, Nino) Trajectories and particle creation and annihilation in quantum field theory. (English summary) **2005d:81013**
— (*with* Goldstein, Sheldon; Zanghì, Nino) Quantum equilibrium and the role of operators as observables in quantum theory. (English summary) **2005f:81008**
— (*with* Goldstein, Sheldon; Tumulka, Roderich; Zanghì, Nino) Bohmian mechanics and quantum field theory. (English summary) **2005h:81016**
Durstberger, Katharina Berry phase in an entangled spin-$\frac{1}{2}$ system. (English summary)

2005k:81007

Dyson, Freeman J. Thought-experiments in honor of John Archibald Wheeler.

Elze, Hans-Thomas Quantum mechanics and discrete time from "timeless" classical dynamics. (English summary) (*see* **2005c:81005**)

Englert, Berthold-Georg *see* **Kwiat, Paul G.**

Everett, Allen Time travel paradoxes, path integrals, and the many worlds interpretation of quantum mechanics. (English summary) **2005f:81009**

(Faria, A. J.) *see* **Nikolić, Hrvoje**, **2005c:81015**

Ferrero Melgar, Miguel (*with* Salgado, D.; Sánchez-Gómez, J. L.) Is the epistemic view of quantum mechanics incomplete? (English summary)

(França, H. M.) *see* **Nikolić, Hrvoje**, **2005c:81015**

de Freitas, J. A. Teixeira *see* **d'Almeida, Jorge Manuel Amaro**, **2005g:81007**

Fröhlich, Jürg The quantum theory of light and matter—mathematical results. (*see* **2005f:81006**)

Garola, Claudio (*with* Pykacz, Jarosław) Locality and measurements within the SR model for an objective interpretation of quantum mechanics. (English summary) **2005a:81006**

— (*with* Sozzo, Sandro) A semantic approach to the completeness problem in quantum mechanics. (English summary) **2005f:81010**

Genovese, Marco Research on hidden variable theories: a review of recent progresses. (English summary) **2005m:81008**

Ghirardi, GianCarlo ★ Sneaking a look at God's cards. **2005h:81017**

Goldstein, Sheldon (*with* Taylor, J. O. S.; Tumulka, Roderich; Zanghì, Nino) Are all particles real? (English summary) **2005k:81008**

— *see also* **Dürr, Detlef et al.**, **2005d:81013**; **2005f:81008** *and* **2005h:81016**

Golshani, M. *see* **Abolhasani, M.**, **2005g:81006**

Greaves, H. Understanding Deutsch's probability in a deterministic multiverse. (English summary)

Grib, A. A. (*with* Khrennikov, Andrei Yu.; Starkov, K.) Probability amplitude in quantum like games. (English summary) **2005h:81018**

Grinbaum, A. Elements of information-theoretic derivation of the formalism of quantum theory. (English summary) **2005h:81019**

Gudder, Stanley An approach to quantum probability. (English summary) **2005d:81014**

Hall, Michael J. W. Superselection from canonical constraints. (English summary) **2005f:81011**

— Incompleteness of trajectory-based interpretations of quantum mechanics. (English summary)

Halliwell, Jonathan Some recent developments in the decoherent histories approach to quantum theory. (English summary) (*see* **2005c:81005**)

Halvorson, Hans On information-theoretic characterizations of physical theories. (English summary) **2005d:81015**

Hardy, Lucien Why is nature described by quantum theory?

— Quantum ontological excess baggage. (English summary) **2005e:81010**

Haroche, Serge Breeding nonlocal Schrödinger cats: a thought-experiment to explore the quantum-classical boundary.

Hartle, James B. Linear positivity and virtual probability. (English summary) **2005g:81012**

Healey, Richard Gauge theories and holisms. (English summary) **2005m:81009**

Helland, Inge S. Quantum theory as a statistical theory. (English summary) **2005h:81020**

Hilgevoord, Jan Erratum to: "Time in quantum mechanics: a story of confusion" [Stud. Hist. Philos. Sci. B Stud. Hist. Philos. Modern Phys. **36** (2005), no. 1, 29–60; MR2126011].

Hofer-Szabó, G. (*with* Rédei, Miklós) Reichenbachian common cause systems. (English summary) **2005h:81021**

Holster, A. T. The criterion for time symmetry of probabilistic theories and the reversibility of quantum mechanics. (English summary) **2005e:81011**

Horodecki, Michał *see* **Synak-Radtke, Barbara**, **2005h:81031**

Horton, George Mountjoy (*with* Dewdney, Chris) A relativistically covariant version of Bohm's quantum field theory for the scalar field. (English summary) **2005g:81013**

Hotta, Masahiro (*with* Morikawa, Masahiro) Complete resolution of the quantum Zeno paradox for outside observers. (English summary) **2005d:81016**

Howard, Don Who invented the "Copenhagen interpretation"? A study in mythology. (English summary)

Hradil, Z. *see* **Řeháček, Jaroslav**

Hrushovski, Ehud (*with* Pitowsky, Itamar) Generalizations of Kochen and Specker's theorem and the effectiveness of Gleason's theorem. (English summary) **2005d:81017**

Hyman, Ross (*with* Caldwell, Shane A.; Dalton, Edward) Bohmian mechanics with discrete operators. (English summary) **2005f:81012**

Isham, C. J. Some reflections on the status of conventional quantum theory when applied to quantum gravity. (*see* **2005j:83002**)

Isidro, José María[2] Bypassing Pauli's theorem. (English summary) **2005h:81022**

Kamalov, Timur F. How to complete the quantum-mechanical description? (English summary) **2005h:81023**

Kato, Goro C. Elemental principles of t-topos. (English summary) **2005k:81009**

Keller, Jaime A derivation of quantum mechanics from START. (English summary)

Kent, Adrian *see* **Barrett, Jonathan**, **2005d:81006**

Khrennikov, Andrei Yu. Origin of quantum probabilities. (English summary) (*see* **2005c:81006**)

— Nonconventional viewpoint to elements of physical reality based on nonreal asymptotics of relative frequencies. (English summary) **2005d:81018**

— Hyperbolic quantum mechanics. (English summary) **2005d:81019**

— Event independence, collective independence, EPR-Bohm experiment, and incompleteness of quantum mechanics. (English summary)

— Representation of the Kolmogorov model having all distinguishing features of quantum probabilistic model. (English summary) **2005b:81003**

— Växjö interpretation-2003: realism of contexts. (English summary) **2005j:81006**

— (*with* Volovich, Yaroslav) Interference as a statistical consequence of conjecture on time quant. (English summary) **2005h:81024**

— (*with* Kozyrev, Sergei) The contextual quantization and the principle of complementarity of probabilities. (English summary) **2005k:81010**

— EPR-Bohm experiment and interference of probabilities. (English summary) **2005h:81025**

— Contextual approach to quantum mechanics and the theory of the fundamental prespace. (English summary) **2005i:81002**

— On unification of classical and quantum probability.

— (*with* Volovich, Yaroslav) Discrete time dynamical models and their quantum-like context-dependent properties.

— *see also* **Grib, A. A. et al.**, **2005h:81018**; **Kozyrev, Sergei**, **2005h:81026** *and* **Plotnitsky, Arkady**, **2005k:81015**

Kisil, Vladimir V. *see* **Brodlie, Alastair**, **2005k:81006**

Koshino, Kazuki Relation between conventional and dynamical formalisms in the quantum Zeno effect. (English summary) **2005m:81010**

Kozyrev, Sergei (*with* Khrennikov, Andrei Yu.) Noncommutative probability in classical systems. (English summary) **2005h:81026**

— *see also* **Khrennikov, Andrei Yu.**, **2005k:81010** *and* **Plotnitsky, Arkady**, **2005k:81015**

Krotov, V. F. The quantization property of probability distributions of the characteristics of dynamical systems observed under random perturbations. (Russian. Russian summary) **2005k:81011**

Kryukov, Alexey A. On the problem of emergence of classical space-time: the quantum-mechanical approach. (English summary) **2005g:81014**

Kurakin, Pavel V. (*with* Malinetskiĭ, G. G.) "Toy quantum mechanics"—a new look at the hidden-variable theorem. (Russian. Russian summary) (*see* **2005f:37002**)

— (*with* Malinetskiĭ, G. G.) Toy quantum mechanics using hidden variables. **2005h:81027**

Kuznetsova, Olga V. "Can the quantum-mechanical description of physical reality be considered complete?". (Russian. English and Russian summaries) (*see* **2005b:01005**)

Kwiat, Paul G. (*with* Englert, Berthold-Georg) Quantum erasing the nature of reality: or, perhaps, the reality of nature?

Lange, Marc ★ An introduction to the philosophy of physics. **2005d:81020**

Lara, Luis *see* **Castagnino, M. A. et al.**, **2005c:81012**

Lewis, Peter J. Life in configuration space. (English summary) **2005j:81007**

Lipkin, A. I. Two views on the place of the "uncertainty principle", of classical physics, and of measurement in the foundations of quantum mechanics. (Russian. English and Russian summaries) (*see* **2005c:01023**)

Lombardi, Olimpia *see* **Castagnino, M. A. et al.**, **2005c:81012**

Loris, I. (*with* Sasaki, Ryu) Quantum vs classical mechanics: role of elementary excitations. (English summary) **2005d:81021**

Luati, Alessandra A real formula for transition probabilities. (English and Italian summaries) **2005h:81028**

Luis, Alfredo Operational approach to complementarity and duality relations. (English summary) **2005i:81003**

Luo, Shunlong On survival probability of quantum states. (English summary) **2005k:81012**

Lyre, Holger Holism and structuralism in U(1) gauge theory. (English summary) **2005m:81011**

Mabuchi, Hideo Quantum feedback and the quantum-classical transition.

Mackey, George W. ★ Mathematical foundations of quantum mechanics. **2005b:81004**

Magnus, P. D. The price of insisting that quantum mechanics is complete. (English summary) **2005a:81007**

Malinetskiĭ, G. G. *see* **Kurakin, Pavel V.**, **2005h:81027** *and* (**2005f:37002**)

(Malsbary, Gerald) *see* **Ghirardi, GianCarlo**, **2005h:81017**

(Malta, C. P.) *see* **Nikolić, Hrvoje**, **2005c:81015**

Mana, P. G. L. Probability tables. (English summary) **2005k:81013**

Man′ko, Vladimir I. *see* **Andreev, Vladimir A.**, **2005g:81008**

Marchildon, Louis Remarks on Mohrhoff's interpretation of quantum mechanics. (English summary)

— Why should we interpret quantum mechanics? (English summary)

Mataloni, P. *see* **Barbieri, Marco et al.**, **2005h:81010**

Maxwell, Nicholas Does probabilism solve the great quantum mystery? (English summary)

Meister, Bernhard K. *see* **Bender, Carl M. et al.**, **2005k:81005**

Menon, Govind K. (*with* Belyĭ, S. V.) Dirac particle in a box, and relativistic quantum Zeno dynamics. (English summary) **2005d:81022**

Mohrhoff, Ulrich Do quantum states evolve? Apropos of Marchildon's remarks. (English summary)

Monton, Bradley The problem of ontology for spontaneous collapse theories. (English summary)

Moret-Bailly, Jacques Finding a classical "double solution" to solve the light-matter duality problem. (English summary) **2005h:81029**

Morikawa, Masahiro *see* **Hotta, Masahiro**, **2005d:81016**

Mottelson, Ben R. *see* **Bohr, Aage et al.**, **2005c:81011**

Mugur-Schächter, Mioara Quantum mechanics versus a method of relativized conceptualization. (English summary) **2005m:81012**

de Muynck, Willem M. Interpretations of quantum mechanics, and interpretations of violation of Bell's inequality. (English summary) **2005e:81012**

— ★ Foundations of quantum mechanics, an empiricist approach. **2005i:81004**

— Towards a neo-Copenhagen interpretation of quantum mechanics. (English summary) **2005a:81008**

(von Neumann, John) *see* **Stöltzner, Michael**, **2005d:81025**

Nevvazhaĭ, I. D. Towards no local model of physical reality. (*see* **2005h:81006**)

Newton, Roger G. Erratum: "What is a state in quantum mechanics?" [Amer. J. Phys. **72** (2004), no. 3, 348–350; MR2035913 (2004j:81010)].

Niestegge, Gerd Why do the quantum observables form a Jordan operator algebra? (English summary) **2005c:81014**

— Composite systems and the role of the complex numbers in quantum mechanics. (English summary) **2005h:81030**

Nikolić, Hrvoje Comment on: "Critical assessment of the Schrödinger picture of quantum mechanics" [Phys. Lett. A **305** (2002), no. 6, 322–328; MR1952415 (2004a:81007)] by A. J. Faria, H. M. França, C. P. Malta and R. C. Sponchiado. (English summary) **2005c:81015**

Nisticò, Giuseppe Conceptual analysis of quantum history theory. (English and French summaries)

Nottale, Laurent *see* **Célérier, Marie-Noëlle**, **2005h:81014**

Olavo, L. S. F. Foundations of quantum mechanics: the connection between QM and the central limit theorem. (English summary) **2005g:81015**

Olkiewicz, Robert Decoherence-induced classical properties in infinite quantum systems. (*see* **2005c:81007**)
Pitowsky, Itamar *see* **Hrushovski, Ehud**, **2005d:81017**
Placek, Tomasz Quantum state holism: a case for holistic causation. (English summary) **2005k:81014**
Plotnitsky, Arkady On the character of Bohr's complementarity: response to Andrei Khrennikov and Sergei Kozyrev's "The contextual quantization and the principle of complementarity of probabilities" [in *Quantum theory: reconsideration of foundations—2*, 723–745, Växjö Univ. Press, Växjö, 2004; MR2111153 (2005k:81010)]. **2005k:81015**
Polley, L. Position eigenstates and the statistical axiom of quantum mechanics. (English summary) (*see* **2005c:81006**)
Porto, Rafael A. *see* **Cambini, Rodolfo**
Pykacz, Jarosław *see* **Garola, Claudio**, **2005a:81006**
Rédei, Miklós *see* **Hofer-Szabó, G.**, **2005h:81021**
Řeháček, Jaroslav (*with* Hradil, Z.) Uncertainty relations from Fisher information. (English summary)
Rieckers, Alfred Photons and macroscopic reality. (English summary) (*see* **2005f:00016**)
Rietdijk, C. W. How do hidden variables fit in natural law? (English and French summaries)
Rotter, Martin Techniques and methods of science from a structuralist point of view. (English summary) **2005b:81005**
Rubin, Mark A. There is no basis ambiguity in Everett quantum mechanics. (English summary) **2005b:81006**
Ruetsche, Laura A matter of degree: putting unitary inequivalence to work. (English summary) **2005d:81023**
Sahoo, Debendranath Mixing quantum and classical mechanics and uniqueness of Planck's constant. (English summary) **2005e:81013**
Salgado, D. *see* **Ferrero Melgar, Miguel et al.**
Sánchez-Gómez, J. L. *see* **Ferrero Melgar, Miguel et al.**
Sasaki, Ryu *see* **Loris, I.**, **2005d:81021**
Schack, Rüdiger Unknown quantum operations. (English summary) **2005i:81005**
— *see also* **Scherer, Artur et al.**, **2005d:81024**
Scherer, Artur (*with* Soklakov, Andrei N.; Schack, Rüdiger) A simple necessary decoherence condition for a set of histories. (English summary) **2005d:81024**
Seevinck, M. P. Holism, physical theories and quantum mechanics. (English summary) **2005k:81016**
Selesnick, S. A. ★ Quanta, logic and spacetime. **2005g:81016**
Sidharth, B. G. Geometry and quantum mechanics. (English summary) **2005g:81017**
Sklar, Lawrence Spacetime and conventionalism. (English summary)
Sohrab, Siavash H. Some thermodynamic considerations on the physical and quantum nature of space and time. (English summary)
Soklakov, Andrei N. *see* **Scherer, Artur et al.**, **2005d:81024**
Soler Gil, Francisco José Aristotelische Substanzen und realistische Interpretationen der Quantenmechanik. (English and German summaries) [Aristotelian substance and realistic interpretation of quantum mechanics]
Sommers, Hans-Jürgen (*with* Życzkowski, Karol) Bures volume of the set of mixed quantum states. (English summary) **2005e:81014**
— *see also* **Życzkowski, Karol**, **2005e:81016**
Sozzo, Sandro *see* **Garola, Claudio**, **2005f:81010**
(Sponchiado, R. C.) *see* **Nikolić, Hrvoje**, **2005c:81015**
Starkov, K. *see* **Grib, A. A. et al.**, **2005h:81018**
Steinberg, Aephraim M. Speakable and unspeakable, past and future.
Stöltzner, Michael Opportunistic axiomatics—von Neumann on the methodology of mathematical physics. (English summary) **2005d:81025**
Suárez, Mauricio On quantum propensities: two arguments revisited. (English summary) **2005d:81026**
— Causal processes and propensities in quantum mechanics. (English summary)
Sukhanov, A. D. The generalized "coordinate-momentum" uncertainty relation in quantum mechanics and the theory of Brownian motion. (Russian. Russian summary) **2005f:81013**
Synak-Radtke, Barbara (*with* Horodecki, Michał) Classical information deficit and monotonicity on local operations. (English summary) **2005h:81031**
Szabó, László E. Critical reflections on quantum probability theory. **2005a:81009**
Tanona, Scott Idealization and formalism in Bohr's approach to quantum theory. (English summary)
Tarozzi, Gino *see* **Auletta, Gennaro**
Taylor, J. O. S. *see* **Goldstein, Sheldon et al.**, **2005k:81008**
Tortrat, Albert Probabilités et grandeurs aléatoires en mécanique quantique. (English and French summaries) [Probabilities and random values in quantum mechanics] **2005a:81010**
Tumulka, Roderich *see* **Dürr, Detlef et al.**, **2005d:81013**; **2005h:81016** *and* **Goldstein, Sheldon et al.**, **2005k:81008**
Tveritinov, I. D. Asymptotic decoherence in quantum systems. (English summary) **2005f:81014**
Ulfbeck, Ole *see* **Bohr, Aage et al.**, **2005c:81011**
Vaidman, Lev The reality in Bohmian quantum mechanics or Can you kill with an empty wave bullet? (English summary)
Valckenborgh, Frank *see* **Aerts, Diederik**, **2005d:81005**
Valentini, Antony Universal signature of non-quantum systems. (English summary) **2005f:81015**
Volovich, Yaroslav *see* **Khrennikov, Andrei Yu.**, **2005h:81024**
Vrscay, E. R. *see* **Colijn, C.**, **2005d:81011**
Wang, Zhi Yong (*with* Chen, B.; Xiong, C. D.) Time in quantum mechanics and quantum field theory. (English summary) **2005c:81016**
Wetterich, Christof Spontaneous symmetry breaking origin for the difference between time and space. (English summary) **2005h:81032**
(Wheeler, John Archibald) *see* **Dyson, Freeman J.** *and* **Zeilinger, Anton**
Whitaker, M. A. B. The EPR paper and Bohr's response: a re-assessment. (English summary)
(Wightman, A. S.) *see* **Mackey, George W.**, **2005b:81004**
Xiong, C. D. *see* **Wang, Zhi Yong et al.**, **2005c:81016**
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Zanghì, Nino *see* **Dürr, Detlef et al.**, **2005d:81013**; **2005f:81008**; **2005h:81016**; **Allori, Valia**, **2005k:81002** *and* **Goldstein, Sheldon et al.**, **2005k:81008**
Zeh, H. Dieter The wave function: it or bit?
Zeilinger, Anton Why the quantum? "It" from "bit"? A participatory universe? Three far-reaching challenges from John Archibald Wheeler and their relation to experiment.
Zurek, Wojciech Hubert Quantum Darwinism and envariance.
Życzkowski, Karol (*with* Sommers, Hans-Jürgen) Hilbert-Schmidt volume of the set of mixed quantum states. (English summary) **2005e:81016**
— *see also* **Sommers, Hans-Jürgen**, **2005e:81014**

Items with secondary classifications in 81P05

Accardi, Luidgi (*with* Regoli, Massimo) Quantum probability and the interpretation of quantum mechanics: a crucial experiment. (English summary) **2005e:81020**
Aichele, Thomas *see* **Zwiller, Valéry et al.**, **2005k:81388**
Albanese, Claudio (*with* Lawi, Stephan) Time quantization and q-deformations. (English summary) **2005a:81110**
Amann, A. *see* **Atmanspacher, Harald et al.**, **2005d:82058**
Anastopoulos, Charis (*with* Savvidou, Ntina) The role of phase space geometry in Heisenberg's uncertainty relation. (English summary) **2005a:81121**
— On the relation between quantum mechanical probabilities and event frequencies. (English summary) **2005h:81044**
Atmanspacher, Harald (*with* Bishop, Robert C.; Amann, A.) Extrinsic and intrinsic irreversibility in probabilistic dynamical laws. (English summary) **2005d:82058**
Ballentine, L. E. Interpretations of probability and quantum theory. (English summary) **2005h:60010**
Barbosa, G. D. (*with* Pinto-Neto, N.) Noncommutative quantum mechanics and Bohm's ontological interpretation. (English summary) **2005f:81116**
Batterman, Robert W. Response to: "Whose devil? Which details?" [Philos. Sci. **72** (2005), no. 1, 128 153; MR2141637 (2005k:00004)] by G. Belot. (English summary)
Belot, Gordon Whose devil? Which details? (English summary) **2005k:00004**
— *see also* **Batterman, Robert W.**
Benci, Vieri Some remarks on the theory of relativity and the naïve realism. **2005f:83005**
Benson, Oliver *see* **Zwiller, Valéry et al.**, **2005k:81388**
Bishop, Robert C. *see* **Atmanspacher, Harald et al.**, **2005d:82058**
(Bohr, Niels Henrik David) *see* **Massimi, Michela**
Bounias, Michel (*with* Krasnoholovets, Volodymyr) Scanning the structure of ill-known spaces. II. Principles of construction of physical space. (English summary) **2005a:00010**
— (*with* Krasnoholovets, Volodymyr) Scanning the structure of ill-known spaces. III. Distribution of topological structures at elementary and cosmic scales. (English summary) **2005a:00008**
Breuer, Thomas Othmar Another no-go theorem for hidden variable models of inaccurate spin 1 measurements. (English summary) **2005h:81050**
Brun, Todd A. Decoherence and quantum trajectories. (English summary) (*see* **2005c:81005**)
Buhagiar, David A note on strongly closed subspaces in an inner product space. (English summary) **2005h:46106**
Bulinskiĭ, A. V. (*with* Khrennikov, Andrei Yu.) Nonclassical total probability formula and quantum interference of probabilities. (English summary) **2005h:60086**
Chen, Ping-Xing (*with* Li, Cheng-Zu) Distinguishing the elements of a full product basis set needs only projective measurements and classical communication. (English summary) **2005d:81040**
Chiao, Raymond Y. Conceptual tensions between quantum mechanics and general relativity: are there experimental consequences?
Conte, Elio (*with* Federici, Antonio; Khrennikov, Andrei Yu.; Zbilut, Joseph P.) Is determinism the basic rule in dynamics of biological matter? (English summary) **2005k:92001**
(Curie, Pierre) *see* **Earman, John**
Deutsch, David It from qubit. (English summary)
van Dongen, Jeroen (*with* de Haro, Sebastian) On black hole complementarity. (English summary) **2005j:83057**
Duarte, Gerson *see* **Furtado, Claudio**, **2005h:81144**
Earman, John Curie's principle and spontaneous symmetry breaking. (English summary)
(Ehrenfest, Paul) *see* **Navarro Veguillas, Luis**, **2005f:81005**
Fano, Vincenzo Non-materiality of non-locality. (English summary)
Federici, Antonio *see* **Conte, Elio et al.**, **2005k:92001**
Furtado, Claudio (*with* Duarte, Gerson) Dual Aharonov-Bohm effect. (English summary) **2005h:81144**
Gaies, A. (*with* Ziar, A.) Variational calculus with fractional action. (English summary) **2005h:81191**
Gambetta, Jay (*with* Wiseman, H. M.) Modal dynamics for positive operator measures. (English summary) **2005a:81019**
Gambini, Rodolfo (*with* Porto, Rafael A.; Pullin, Jorge) Fundamental decoherence from relational time in discrete quantum gravity: Galilean covariance. (English summary) **2005i:83039**
Ghins, Michel Can common sense realism be extended to theoretical physics? (English summary)
Grössing, Gerhard From classical Hamiltonian flow to quantum theory: derivation of the Schrödinger equation. (English summary)
Hamhalter, Jan Traces, dispersions of states and hidden variables. (English summary) **2005m:81142**
Haro, Jaume Study of the behavior of quantum dynamics as $\hbar \to 0$. (Spanish. English and Spanish summaries) **2005f:81071**
de Haro, Sebastian *see* **van Dongen, Jeroen**, **2005j:83057**
(Heisenberg, Werner Karl) *see* **Massimi, Michela**
Hida, Takeyuki Innovation approach to stochastic processes and quantum dynamics. (English summary) **2005k:60219**

Hiley, B. J. Phase space distributions of quantum phenomena. (English summary) **2005i:81081**
Holland, Peter Computing the wavefunction from trajectories: particle and wave pictures in quantum mechanics and their relation. (English summary) **2005m:81037**
Hooker, C. A. Asymptotics, reduction and emergence. (English summary) **2005d:00007**
Howell, John C. *see* **Mukamel, Ronen**, **2005h:81068**
Kastner, Ruth E. Shutters, boxes, but no paradoxes: time symmetry puzzles in quantum theory. (English summary) **2005h:81062**
Kendon, Viv (*with* Sanders, Barry C.) Complementarity and quantum walks. (English summary) **2005k:82006**
Kenfack, Anatole (*with* Życzkowski, Karol) Negativity of the Wigner function as an indicator of non-classicality. (English summary)
Khrennikov, Andrei Yu. ★ Information dynamics in cognitive, psychological, social and anomalous phenomena. **2005b:91005**
— *see also* **Bulinskiĭ, A. V.**, **2005h:60086** *and* **Conte, Elio et al.**, **2005k:92001**
Kitajima, Yuichiro A remark on the modal interpretation of algebraic quantum field theory. (English summary) **2005g:81182**
Kracklauer, A. F. "Complementarity" or schizophrenia: is probability in quantum mechanics information or onta? (English summary) (*see* **2005c:81006**)
Krasnoholovets, Volodymyr *see* **Bounias, Michel**, **2005a:00008** *and* **2005a:00010**
Krause, Décio Structures and structural realism. (English summary)
Lacki, Jan The puzzle of canonical transformations in early quantum mechanics. (English summary) **2005h:81005**
Lanz, Ludovico (*with* Vacchini, Bassano; Melsheimer, Olaf) On consistency of quantum theory and macroscopic objectivity. (English summary) **2005k:81034**
Lawi, Stephan *see* **Albanese, Claudio**, **2005a:81110**
Lawrence, Jay Mutually unbiased bases and trinary operator sets for N qutrits. (English summary) **2005d:81091**
Li, Cheng-Zu *see* **Chen, Ping-Xing**, **2005d:81040**
Loewer, Barry David Lewis's Humean theory of objective chance. (English summary)
(Mandel′shtam, L. I.) *see* **Pechenkin, A. A.**, (**2005b:01005**)
Markopoulou, Fotini (*with* Smolin, Lee) Quantum theory from quantum gravity. (English summary) **2005m:81055**
Massimi, Michela What demonstrative induction can do against the threat of underdetermination: Bohr, Heisenberg, and Pauli on spectroscopic anomalies (1921–24). (English summary)
McHarris, Wm. C. Chaotic effects in quantum mechanics: could Bohr and Einstein both have been right? (English summary) **2005h:81137**
Melsheimer, Olaf *see* **Lanz, Ludovico et al.**, **2005k:81034**
Milward, Geoffrey C. (*with* Wilkin, Colin) The quantum probability equation. III. Perturbing in the energy. (English summary) **2005a:81060**
Minic, Djordje (*with* Tze, Chia-Hsiung) A general theory of quantum relativity. (English summary) **2005m:83045**
Mittelstaedt, Peter Does quantum physics require a new logic? **2005g:81021**
Monroe, Christopher R. What quantum computers may tell us about quantum mechanics.
Morganti, Matteo On the preferability of epistemic structural realism. (English summary)
Mukamel, Ronen (*with* Howell, John C.) Bell's inequalities for particles of arbitrary spin in fixed analyzers. (English summary) **2005h:81068**
Navarro Veguillas, Luis (*with* Pérez Canals, Enric) Paul Ehrenfest on the necessity of quanta (1911): discontinuity, quantization, corpuscularity, and adiabatic invariance. (English summary) **2005f:81005**
Nikolić, Hrvoje Bohmian particle trajectories in relativistic bosonic quantum field theory. (English summary)
— Bohmian particle trajectories in relativistic fermionic quantum field theory. (English summary) **2005m:81327**
Oeckl, Robert Schrödinger's cat and the clock: lessons for quantum gravity. (English summary) **2005e:83031**
Omnès, Roland The language of interpretation in quantum physics and its logic. (*see* **2005a:03010**)
Parthasarathy, Kalyanapuram Rangachari On estimating the state of a finite level quantum system. (English summary) **2005k:81038**
(Pauli, Wolfgang) *see* **Massimi, Michela**
Paz, Juan Pablo Using qubits to learn about "it".
Pechenkin, A. A. Interpretation of quantum mechanics in the "lectures" of L. I. Mandel′shtam in the context of subsequent discussions. (Russian. English and Russian summaries) (*see* **2005b:01005**)
Pérez Canals, Enric *see* **Navarro Veguillas, Luis**, **2005f:81005**
Pinto-Neto, N. *see* **Barbosa, G. D.**, **2005f:81116**
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Regoli, Massimo *see* **Accardi, Luidgi**, **2005e:81020**
Sanders, Barry C. *see* **Kendon, Viv**, **2005k:82006**
Santos-Corchero, E. The failure to perform a loophole-free test of Bell's inequality supports local realism. (English summary)
Savvidou, Ntina *see* **Anastopoulos, Charis**, **2005a:81121**
Segre, Gavriel Physical complexity of classical and quantum objects and their dynamical evolution from an information-theoretic viewpoint. (English summary) **2005i:37010**
Šemrl, Peter Generalized symmetry transformations on quaternionic indefinite inner product spaces: an extension of quaternionic version of Wigner's theorem. (English summary) **2005h:47127**
Shalyt-Margolin, A. E. Pure states, mixed states and Hawking problem in generalized quantum mechanics. (English summary) **2005f:83063**
Shojai, Ali *see* **Shojai, Fatimah**, **2005g:83095**
Shojai, Fatimah (*with* Shojai, Ali) On the relation of Weyl geometry and Bohmian quantum mechanics. (English and Russian summaries) **2005g:83095**
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Sokolovski, Dmitri Why does relativity allow quantum tunnelling to 'take no time'? (English summary) **2005j:81025**
Steuernagel, Ole Equivalence between focused paraxial beams and the quantum harmonic oscillator. (English summary) **2005m:81087**
Suárez, Mauricio Quantum selections, propensities and the problem of measurement. (English summary) **2005f:81033**
Tanona, Scott Uncertainty in Bohr's response to the Heisenberg microscope. (English summary)
Tessier, Tracey E. Complementarity relations for multi-qubit systems. (English summary) **2005m:81069**
Tze, Chia-Hsiung *see* **Minic, Djordje**, **2005m:83045**
Vacchini, Bassano *see* **Lanz, Ludovico et al.**, **2005k:81034**
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Wilkin, Colin *see* **Milward, Geoffrey C.**, **2005a:81060**
Wiseman, H. M. *see* **Gambetta, Jay**, **2005a:81019**
Zbilut, Joseph P. *see* **Conte, Elio et al.**, **2005k:92001**
Zhang, Shou-Cheng To see a world in a grain of sand.
Zhao, Hui (*with* Wang, Zhi-Xi) Separability criteria for quantum mixed states. (English summary) **2005j:81028**
Ziar, A. *see* **Gaies, A.**, **2005h:81191**
Zurek, Wojciech Hubert Decoherence, einselection, and the quantum origins of the classical. (English summary) **2005b:81021**
Zwiller, Valéry (*with* Aichele, Thomas; Benson, Oliver) Quantum optics with single quantum dot devices. (English summary) **2005k:81388**
Życzkowski, Karol *see* **Kenfack, Anatole**

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Arias, Alvaro (*with* Gudder, Stanley) Almost sharp quantum effects. (English summary) **2005g:81018**
de Baets, Bernard *see* **Janssens, Saskia et al.**, **2005g:81020**
Beltrametti, Enrico G. (*with* Mączyński, Maciej J.) Effect algebras and ring-like structures. (English summary) **2005f:81016**
— Quantum logic and quantum probability. (*see* **2005a:03010**)
Brunet, Olivier Representation systems, orthoposets and quantum logic. (English summary) **2005i:81006**
Busch, P. Quantum states and generalized observables: a simple proof of Gleason's theorem. (English summary) **2005a:81011**
Chen, Mao Yin *see* **Shang, Yun et al.**, **2005f:81019** *and* **2005f:81020**
Chovanec, Ferdinand *see* **Jurečková, Mária**, **2005h:81035**
Coecke, Bob (*with* Smets, Sonja) The Sasaki hook is not a [static] implicative connective but induces a backward [in time] dynamic one that assigns causes. (English summary) **2005h:81033**
Cook, Thurlow A. (*with* Foulis, David J.) The base-normed space of a unital group. (English summary) **2005e:81017**
Cordero, Alberto Why objectivist programs in quantum theory do not need an alternative logic. (English summary) (*see* **2005a:03010**)
Dalla Chiara, Maria Luisa (*with* Giuntini, Roberto; Greechie, Richard J.) ★ Reasoning in quantum theory. **2005j:81008**
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D'Hooghe, Bart *see* **Pykacz, Jarosław**, **2005a:81013**
Dvurečenskij, Anatolij Unital groups and general comparability property. (English summary) **2005i:81007**
Foulis, David J. Removing the torsion from a unital group. (English summary) **2005d:81027**
— (*with* Greechie, Richard J.) Semisimplicial unital groups. (English summary) **2005i:81008**
— *see also* **Cook, Thurlow A.**, **2005e:81017**
Giuntini, Roberto *see* **Dalla Chiara, Maria Luisa et al.**, **2005j:81008**
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— *see also* **Arias, Alvaro**, **2005g:81018**
Ivanov, Alexandru Fock theories and quantum logics. (English summary) **2005c:81017**
Janssens, Saskia (*with* de Baets, Bernard; De Meyer, Hans) Bell-type inequalities for quasi-copulas. (English summary) **2005g:81020**
Jing, Wu Ideals, filters, and supports in pseudoeffect algebras. (English summary) **2005f:81018**
Jurečková, Mária (*with* Chovanec, Ferdinand) On some properties of submeasures on MV-algebras. (English summary) **2005h:81035**
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Mączyński, Maciej J. *see* **Beltrametti, Enrico G.**, **2005f:81016**
McKay, Brendan D. *see* **Pavičić, Mladen et al.**, **2005m:81013**
Megill, Norman D. (*with* Pavičić, Mladen) Equivalences, identities, symmetric differences, and congruences in orthomodular lattices. (English summary) **2005b:81007**
— *see also* **Pavičić, Mladen et al.**, **2005m:81013**
Merlet, Jean-Pierre *see* **Pavičić, Mladen et al.**, **2005m:81013**
Mittelstaedt, Peter Does quantum physics require a new logic? **2005g:81021**
Nánásiová, Oĭga (*with* Khrennikov, Andrei Yu.) Observables on a quantum logic. (English summary) **2005a:81012**
— Map for simultaneous measurements for a quantum logic. (English summary) **2005c:81018**
— (*with* Khrennikov, Andrei Yu.) Marginality in non-compatible random events. (English summary) **2005h:81036**
Navara, Mirko Piron's and Bell's geometrical lemmas. (English summary) **2005h:81037**
— (*with* Pták, Pavel) For $n \geq 5$ there is no nontrivial Z_2-measure on $L(\mathbf{R}^n)$. (English summary) **2005h:81038**

Pavičić, Mladen (*with* Merlet, Jean-Pierre; McKay, Brendan D.; Megill, Norman D.) Kochen-Specker vectors. (English summary) **2005m:81013**
— (*with* Merlet, Jean-Pierre; McKay, Brendan D.; Megill, Norman D.) Corrigendum: "Kochen-Specker vectors" [J. Phys. A **38** (2005), no. 7, 1577–1592; MR2117271 (2005m:81013)]. — *see also* **Megill, Norman D., 2005b:81007**
Pták, Pavel *see* **Navara, Mirko, 2005h:81038**
Pulmannová, Sylvia On quantum conditional probability spaces. (English summary) **2005e:81018**
— Divisible effect algebras. (English summary) **2005h:81039**
Pumplün, D. (*with* Röhrl, Helmut) Convex effect algebras and partially ordered positively convex modules. (English summary) **2005k:81017**
Pykacz, Jarosław (*with* D'Hooghe, Bart) Buckley-Siler connectives for quantum logics of fuzzy sets. (English summary) **2005a:81013**
Rédei, Miklós Operator algebras and quantum logic. (*see* **2005a:03010**)
Riečanová, Zdenka Pastings of MV-effect algebras. (English summary) **2005h:81040**
Röhrl, Helmut *see* **Pumplün, D., 2005k:81017**
Ruuge, Artur E. Indeterministic objects in the category of effect algebras and the passage to the semiclassical limit. (English summary) **2005k:81018**
Shang, Yun (*with* Li, Yong Ming[1]; Chen, Mao Yin) Anti-BZ-structure in effect algebras. (English summary) **2005f:81019**
— (*with* Li, Yong Ming[1]; Chen, Mao Yin) Constructions of some quantum structures and fuzzy effect space. (English summary) **2005f:81020**
Smets, Sonja In defense of operational quantum logic. (English summary) **2005b:81008**
— *see also* **Coecke, Bob, 2005h:81033**
Smith, Derek A. Orthomodular Bell-Kochen-Specker theorem. (English summary) **2005h:81041**
Stachow, Ernst-Walther Experimental approach to quantum-logical connectives. **2005g:81022**
Tkadlec, Josef Central elements of effect algebras. (English summary) **2005h:81042**
Tokuo, Kenji Quantum number theory. (English summary) **2005k:81019**
Vasyukov, Vladimir L. From semantics to syntax: quantum logic of observables. (English summary) **2005f:81021**
Watanabe, Teppei Locality and orthomodular structure of compound systems. (English summary) **2005e:81019**
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Zafiris, Elias Quantum event structures from the perspective of Grothendieck topoi. (English summary) **2005g:81023**

Items with secondary classifications in 81P10

Andreev, Vladimir A. (*with* Man'ko, Vladimir I.) The Bell inequality for two-particle mixed spin states. (Russian. Russian summary) **2005g:81008**
Bigaj, Tomasz Counterfactuals and spatiotemporal events. (English summary)
Börger, Reinhard The tensor product of orthomodular posets. (English summary) **2005k:06027**
Brooks, James K. The commutative and non-commutative Dieudonné theorem. **2005m:28009**
Buhagiar, David (*with* Chetcuti, Emmanuel) On isomorphisms of inner product spaces. (English summary) **2005b:03151**
— (*with* Chetcuti, Emmanuel) On complete-cocomplete subspaces of an inner product space. (English summary) **2005m:46041**
Calvo, T. (*with* Pradera, A.) Double aggregation operators. (English summary) **2005e:28025**
Cattaneo, Gianpiero (*with* Leporati, Alberto; Leporini, Roberto) Quantum conservative gates for finite-valued logics. (English summary) **2005k:81045**
Chen, Mao Yin *see* **Shang, Yun et al., 2005i:06014**
Chetcuti, Emmanuel *see* **Buhagiar, David, 2005b:03151** *and* **2005m:46041**
De Simone, Anna (*with* Navara, Mirko) On the permanence properties of interval homogeneous orthomodular lattices. (English summary) **2005f:06010**
Dvurečenskij, Anatolij (*with* Vetterlein, Thomas) Archimedeanness and the MacNeille completion of pseudoeffect algebras and po-groups. (English summary) **2005b:03152**
— (*with* Vetterlein, Thomas) Non-commutative algebras and quantum structures. (English summary) **2005h:06010**
— (*with* Pták, Pavel) Quantum logics with the Riesz interpolation property. (English summary) **2005e:03144**
Edalat, Abbas An extension of Gleason's theorem for quantum computation. (English summary) **2005i:81027**
Frič, Roman Coproducts of D-posets and their application to probability. (English summary) **2005h:06011**
Garola, Claudio (*with* Sozzo, Sandro) A semantic approach to the completeness problem in quantum mechanics. (English summary) **2005f:81010**
Gudder, Stanley Tensor products of sequential effect algebras. (English summary) **2005e:03145**
Harding, John Remarks on concrete orthomodular lattices. (English summary) **2005g:06010**
Jenča, Gejza Boolean algebras R-generated by MV-effect algebras. (English summary) **2005e:06018**
Kaleta, Joanna Some distributivities in GBbi-QRs characterizing Boolean rings. (English summary)
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Leporini, Roberto *see* **Cattaneo, Gianpiero et al., 2005k:81045**
Li, Yong Ming[1] *see* **Shang, Yun et al., 2005i:06014**
Lu, Ru Qian (*with* Zheng, Hong) Lattices of quantum automata. (English summary) **2005d:81095**
Lu, Shi Jie *see* **Ma, Zhi Hao et al., 2005i:06018**; **2005i:06019**; **2005i:06020** *and* **2005j:06011**
Ma, Zhi Hao (*with* Wu, Jun De; Lu, Shi Jie) Bi-difference sets, order relation, and monoids. (English summary) **2005i:06018**
— (*with* Wu, Jun De; Lu, Shi Jie) Ideals and filters in pseudo-effect algebras. (English summary) **2005i:06019**
— (*with* Wu, Jun De; Lu, Shi Jie) Pseudo-effect algebras and pseudo-difference posets. (English summary) **2005i:06020**
— (*with* Wu, Jun De; Lu, Shi Jie) Ideal topology on effect algebras. (English summary) **2005j:06011**
Man'ko, Vladimir I. *see* **Andreev, Vladimir A., 2005g:81008**
Marovt, Janko (*with* Petek, Tatjana) Automorphisms of Hilbert space effect algebras equipped with Jordan triple product, the two-dimensional case. (English summary) **2005k:46168**
Navara, Mirko *see* **De Simone, Anna, 2005f:06010**
Omnès, Roland The language of interpretation in quantum physics and its logic. (*see* **2005a:03010**)
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Pták, Pavel (*with* Weber, Hans[1]) Order properties of splitting subspaces in an inner product space. (English summary) **2005b:03153**
— *see also* **Dvurečenskij, Anatolij, 2005e:03144**
Qiu, Daowen Automata theory based on quantum logic: some characterizations. (English summary) **2005k:03143**
Qu, Wen Bo (*with* Wu, Jun De; Yang, Cheng Wu) Continuity of effect algebra operations in the interval topology. (English summary) **2005g:03114**
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— Modular atomic effect algebras and the existence of subadditive states. (English summary) **2005f:03100**
Selesnick, S. A. ★ Quanta, logic and spacetime. **2005g:81016**
Shang, Yun (*with* Li, Yong Ming[1]; Chen, Mao Yin) Pseudo difference posets and pseudo Boolean D-posets. (English summary) **2005i:06014**
Sozzo, Sandro *see* **Garola, Claudio, 2005f:81010**
Vasyukov, Vladimir L. Effects in quantum logic of observables. (English summary) **2005g:03112**
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— *see also* **Dvurečenskij, Anatolij, 2005b:03152** *and* **2005h:06010**
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Abe, Sumiyoshi Generalized nonadditive information theory and quantum entanglement. (English summary) (*see* **2005g:82001**)
Accardi, Luidgi (*with* Regoli, Massimo) Locality and Bell's inequality. (English summary) **2005d:81028**
— (*with* Regoli, Massimo) Quantum probability and the interpretation of quantum mechanics: a crucial experiment. (English summary) **2005e:81020**
— (*with* Das, Pradip Kumar) Phase measurement in interacting Fock space. (English summary) **2005h:81043**
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— *see also* **Thew, R. T. et al., 2005h:81074**
Adenier, Guillaume Refutation of Bell's theorem. (English summary) **2005j:81010**
— (*with* Khrennikov, Andrei Yu.) Testing the fair sampling assumption for EPR-Bell experiments with polarizing beamsplitters. (English summary) (*see* **2005h:81006**)
Adesso, Gerardo *see* **Serafini, Alessio et al., 2005m:81047**
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Ahn, Doyeol *see* **Moon, Young Hoon et al., 2005h:81067**
Ahnert, S. E. (*with* Payne, M. C.) Linear optics implementation of weak values in Hardy's paradox. (English summary) **2005g:81024**
Albanese, Claudio (*with* Christandl, Matthias; Datta, Nilanjana; Ekert, Artur) Mirror inversion of quantum states in linear registers. (English summary) **2005j:81011**
Ali, M. K. *see* **Andrecut, M., 2005d:81030**
Allakhverdyan, A. È. (*with* Balian, Roger; Nieuwenhuizen, Th. M.) Determining a quantum state by means of a single apparatus. (English summary) **2005d:81029**
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Andrecut, M. (*with* Ali, M. K.) Entanglement dynamics in quantum cellular automata. (English summary) **2005d:81030**
Andreev, Vladimir A. (*with* Man'ko, Vladimir I.) The quantum tomography representation of Bell-CHSH inequalities. (English summary) **2005h:81045**
Angelo, R. M. (*with* Vitiello, S. A.; de Aguiar, M. A. M.; Furuya, Kyoko) Quantum linear mutual information and classical correlations in globally pure bipartite systems. (English summary) **2005f:81022**

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— (*with* Wang, Zhi-Xi; Zhao, Hui) A note on entanglement of formation and generalized concurrence. (English summary) **2005d:81045**

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Ford, G. W. (*with* O'Connell, R. F.) Reply to: "Comment on: 'Quantum measurement and decoherence'" [Phys. Rev. A (3) **70** (2004), no. 2, 026101, 4 pp.; MR2088963 (2005g:81029)] by D. Gobert, J. von Delft and V. Ambegaokar. (English summary) **2005g:81030**

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— (*with* Kar, Guruprasad; Roy, Anirban; Sarkar, Debasis) Distinguishability of maximally entangled states. (English summary) **2005d:81047**

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Gobert, Dominique (*with* von Delft, Jan; Ambegaokar, Vinay) Comment on: "Quantum measurement and decoherence" [Phys. Rev. A (3) **64** (2001), no. 3, 032101, 4 pp.; MR1860593 (2003b:81017)] by G. W. Ford, J. T. Lewis and R. F. O'Connell. (English summary) **2005g:81029**

— *see also* **Ford, G. W., 2005g:81030**

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Gosal, Darwin (*with* Kaszlikowski, Dagomir; Kwek, L. C.; Żukowski, Marek; Oh, Choo Hiap) Asymmetric multipartite Greenberger-Horne-Zeilinger states and Bell inequalities. (English summary) **2005g:81031**

de Gosson, Maurice A. The optimal pure Gaussian state canonically associated to a Gaussian quantum state. (English summary) **2005d:81048**

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Gu, Zhi-Yu (*with* Qian, Shang-Wu; Wang, Jing-Shan) Knotted picture of degree of entanglement of quantum pure state of two nodes $|\chi\rangle = \alpha|\uparrow\downarrow\rangle + \beta|\downarrow\uparrow\rangle$. (English summary) **2005d:81050**

— *see also* **Qian, Shang-Wu, 2005a:81031**

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Ha, Kil-Chan (*with* Kye, Seung-Hyeok) Construction of entangled states with positive partial transposes based on indecomposable positive linear maps. (English summary) **2005i:81012**

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— *see also* **Philipp, Walter, 2005e:81030**

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— (*with* Björk, Gunnar) Complex multi-projective variety and entanglement. (English summary) **2005m:81033**

— (*with* Björk, Gunnar) Entanglement tensor for a general pure multipartite quantum state. (English summary) **2005m:81034**

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Horibe, Minoru (*with* Hayashi, Akihisa; Hashimoto, Takaaki) Solution to the king's problem with observables that are not mutually complementary. (English summary) **2005m:81038**
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— (*with* Mirzaee, M.; Rezaee, M.) Evaluation of relative entropy of entanglement and derivation of optimal Lewenstein-Sanpera decomposition of Bell decomposable states via convex optimization. (English summary) **2005i:81015**
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— (*with* Wu, Ru-Kuan; Wang, Qin-Mei; Xu, Jing-Bo) Entanglement of pair cat states and teleportation. (English summary) **2005d:81062**
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— *see also* **Shimamura, Junichi et al., 2005d:81071**
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Olivares, Stefano (*with* Paris, Matteo G. A.) Enhancement of nonlocality in phase space. (English summary)
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Pan, Feng[1] (*with* Liu, Dan[1]; Lu, Guoying; Draayer, J. P.) Simple entanglement measure for multipartite pure states. (English summary) **2005f:81032**
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Sanpera, Anna *see* **Hulpke, Florian et al., 2005e:81027**

Santos, L. F. (*with* Rigolin, G.; Escobar, C. Ourivio) Entanglement versus chaos in disordered spin chains. (English summary) **2005a:81033**

Santos-Corchero, E. The failure to perform a loophole-free test of Bell's inequality supports local realism. (English summary)

— Proposed optical test of Bell's inequalities not resting upon the fair sampling assumption. (English summary)

— Erratum: "Entropy inequalities and Bell inequalities for two-qubit systems" [Phys. Rev. A (3) **69** (2004), no. 2, 022305, 6 pp.; MR2041764 (2004k:81074)]. **2005h:81073**

Sarandy, M. S. *see* **Wu, Lian Ao et al., 2005h:81081**

Sarkar, Debasis *see* **Ghosh, Sibasish et al., 2005d:81047**

Scardicchio, A. *see* **Facchi, P. et al., 2005c:81023**

Schmidt, Andreas U. Mathematics of the quantum Zeno effect. (English summary) **2005g:81042**

Schust, P. (*with* Mattes, M.; Sorg, M.) Quantum entanglement in relativistic three-particle systems. (English summary) **2005b:81018**

Scutaru, Horia On the separability of pure states. (English summary) **2005e:81032**

— On the pseudo-pure states of two qubits. (English summary) **2005j:81023**

Serafini, Alessio (*with* Adesso, Gerardo; Illuminati, Fabrizio) Unitarily localizable entanglement of Gaussian states. (English summary) **2005m:81047**

Shafiee, A. (*with* Golshani, M.) Complete correlation, detection loophole and Bell's theorem. (English summary) **2005j:81024**

Shapira, Daniel *see* **Shimoni, Yishai et al., 2005d:81072**

Shi, Yu Quantum entanglement in second-quantized condensed matter systems. (English summary) **2005g:81043**

Shih, Yanhua Quantum entanglement and the uncertainty relations. (English summary) **2005g:81044**

Shimamura, Junichi (*with* Özdemir, Şahin Kaya; Morikoshi, Fumiaki; Imoto, Nobuyuki) Entangled states that cannot reproduce original classical games in their quantum version. (English summary) **2005d:81071**

Shimizu, Akira *see* **Koshino, Kazuki, 2005k:81032**

Shimoni, Yishai (*with* Shapira, Daniel; Biham, Ofer) Characterization of pure quantum states of multiple qubits using the Groverian entanglement measure. (English summary) **2005d:81072**

Shimono, Toshiyuki Towards additivity of entanglement of formation. (English summary) **2005a:81034**

— *see also* **Matsumoto, Keiji[2] et al., 2005i:81018**

Shor, Peter W. Equivalence of additivity questions in quantum information theory. (English summary) **2005e:81033a**

— The classical capacity achievable by a quantum channel assisted by a limited entanglement. (English summary) **2005m:81048**

— *see also* **Horodecki, Michałet al., 2005d:81053** *and* **Errata: "Equivalence of additivity questions in quantum information theory", 2005e:81033b**

Shumovskiĭ, A. S. *see* **Can, M. Ali et al., 2005j:81013**

Silman, Jonathan *see* **Reznik, Benni et al., 2005d:81070**

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Snyder, W. D. *see* **Gogo, A. et al., 2005m:81029**

Sokolovski, Dmitri Why does relativity allow quantum tunnelling to 'take no time'? (English summary) **2005j:81025**

— Residence time of a two-level quantum system. (English summary) **2005d:81073**

— (*with* Sala Mayato, R.) Path summation and von Neumann-like quantum measurements. (English summary) **2005m:81049**

Sommers, Hans-Jürgen *see* **Życzkowski, Karol, 2005m:81054**

Son, Edwin J. *see* **Kim, Won Tae, 2005k:81030**

Son, Wonmin (*with* Lee, Jinhyoung; Kim, Myungshik S.) d-outcome measurement for a nonlocality test. (English summary) **2005g:81045**

Song, He-shan *see* **Yu, Chang-shui**

Song, Tong-Qiang Teleportation of two-mode quantum state of continuous variables. (English summary)

— (*with* Li, Hui-Jun) Three-particle Einstein-Podolsky-Rosen eigenstate and its application in quantum dense coding. (English summary) **2005g:81046**

— Nonlinear Einstein-Podolsky-Rosen entangled states. (English summary) **2005g:81047**

Song, Wei[2] *see* **Yang, Ming[6] et al., 2005m:81052**

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Soubusta, J. *see* **Gavenda, M. et al., 2005m:81027**

Srednicki, Mark Subjective and objective probabilities in quantum mechanics. (English summary) **2005m:81050**

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Stepney, Susan *see* **Brown, Iain D. K. et al., 2005m:81020**

Stobińska, Magdalena (*with* Wódkiewicz, Krzysztof) Witnessing entanglement with second-order interference. (English summary) **2005m:81051**

Stotland, A. (*with* Pomeranskiĭ, A. A.; Bachmat, E.; Cohen, Doron) The information entropy of quantum-mechanical states. (English summary) **2005d:81074**

Streater, R. F. Duality in quantum information geometry. (English summary) **2005e:81034**

Struyve, W. (*with* De Baere, W.; De Neve, J.; De Weirdt, S.) On Peres' statement "Opposite momenta lead to opposite directions", decaying systems and optical imaging. (English summary)

Suárez, Mauricio Quantum selections, propensities and the problem of measurement. (English summary) **2005f:81033**

Sudarshan, E. C. George *see* **Facchi, P. et al., 2005c:81023** *and* **Man'ko, Vladimir I. et al., 2005g:81035**

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Sun, Min *see* **Qin, Gan[2] et al., 2005m:81046**

Svozil, Karl Quantum information via state partitions and the context translation principle. (English summary) **2005d:81075**

Tapp, Alain *see* **Brassard, Gilles et al., 2005e:81022**

Tarrach, Rolf *see* **Orús, Román, 2005g:81037**

Terashima, Hiroaki (*with* Ueda, Masahito) Einstein-Podolsky-Rosen correlation in a gravitational field. (English summary) **2005d:81076**

Terno, Daniel R. *see* **Bartlett, Stephen D., 2005m:81016**

Thew, R. T. (*with* Acín, Antonio; Zbinden, H.; Gisin, Nicolas) Bell-type test of energy-time entangled qutrits. (English summary) **2005h:81074**

Thirring, Walter *see* **Narnhofer, Heide, 2005i:81020**

Todarello, Orlando *see* **Conte, Elio et al., (2005h:81006)**

Toigo, Alessandro *see* **Carmeli, Claudio et al., 2005h:81053**

Tsuda, Yoshiyuki (*with* Matsumoto, Keiji[2]) Quantum estimation for non-differentiable models. (English summary) **2005j:81026**

Tyc, Tomáš (*with* Sanders, Barry C.) Operational formulation of homodyne detection. (English summary) **2005d:81077**

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Uhlmann, Armin Concurrence and foliations induced by some 1-qubit channels. (English summary) **2005h:81075**

Unnikrishnan, C. S. Correlation functions, Bell's inequalities and the fundamental conservation laws. (English summary) **2005i:81023**

Urbanowski, K. Studying the Bell-Steinberger relation. (English summary) **2005g:81048**

Usha Devi, A. R. (*with* Sirsi, Swarnamala) Bivalued 'click'-'no-click' probabilities for EPRB spin correlations. (English summary) **2005k:81039**

Vacchini, Bassano *see* **Carmeli, Claudio et al., 2005h:81053** *and* **Lanz, Ludovico et al., 2005k:81034**

Vaidman, Lev (*with* Mitrani, Zion) Qubits versus bits for measuring an integral of a classical field. (English summary) **2005j:81027**

Vedral, Vlatko *see* **Morikoshi, Fumiaki et al., 2005d:81067**

Verghese, George C. *see* **Eldar, Yonina C. et al., 2005d:81044**

Verstraete, Frank *see* **Cubitt, T. S. et al., 2005m:81023**

Viola, Lorenza (*with* Onofrio, Roberto) Contractive Schrödinger cat states for a free mass. (English summary) **2005e:81035**

— *see also* **Barnum, Howard et al., 2005b:81010**

Virmani, S. (*with* Plenio, M. B.) Construction of extremal local positive-operator-valued measures under symmetry. (English summary) **2005a:81035**

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Vitiello, S. A. *see* **Angelo, R. M. et al., 2005f:81022**

Volovich, Igor V. *see* **Baranov, A. A. et al., 2005h:81047**

Vourdas, A. Entangling transformations in composite finite quantum systems. (English summary) **2005a:81036**

Walczak, Zbigniew Adam *see* **Caban, P. et al., 2005j:81012**

Walther, Philip (*with* Resch, K. J.; Brukner, Časlav; Steinberg, Aephraim M.; Pan, Jian-Wei; Zeilinger, Anton) Quantum nonlocality obtained from local states by entanglement purification. (English summary) **2005k:81040**

Wang, An Min Eigenvalues, Peres' separability condition, and entanglement. (English summary) **2005g:81049**

— *see also* **Niu, Wan-Qing, 2005b:81016**; **You, Hao et al., 2005h:81082** *and* **Ma, Xiao San et al., 2005k:81037**

Wang, Cheng-Zhi (*with* Li, Chun-Xian; Guo, Guang-Can) Entanglement change of mixed states under canonical unitary operations in two qubits. (English summary) **2005h:81076**

Wang, Jing-Shan *see* **Gu, Zhi-Yu et al., 2005d:81050**

Wang, Liang[1] (*with* Li, Shu-Shen; Yan, YiJing) A criterion for local interconvertibility between all-tripartite Gaussian states. (English summary) **2005f:81034**

Wang, Min Sheng[1] Classical limit of von Neumann measurement. (English summary) **2005a:81037**

Wang, Qin-Mei *see* **Li, Shang-Bin et al., 2005d:81062**

Wang, Xiao Guang Analytical results for entanglement in the five-qubit anisotropic Heisenberg model. (English summary) **2005d:81078**

— (*with* Sanders, Barry C.) Canonical entanglement for two indistinguishable particles. (English summary) **2005h:81077**

— Entanglement versus energy in quantum spin models. (English summary) **2005h:81078**

— *see also* **Li, Haibin et al., 2005e:81028**

Wang, Xiaohong[2] (*with* Fei, Shao Ming; Wang, Zhi-Xi; Wu, Ke[1]) On PPT states in $\mathscr{C}^K \otimes \mathscr{C}^M \otimes \mathscr{C}^N$ composite quantum systems. (English summary) **2005h:81079**

— *see also* **Fei, Shao Ming et al.**

Wang, Zhi-Xi *see* **Fei, Shao Ming et al., 2005d:81045**; **Wang, Xiaohong[2] et al., 2005h:81079** *and* **Zhao, Hui, 2005j:81028**

Wei, Tzu-Chieh (*with* Altepeter, Joseph B.; Goldbart, Paul M.; Munro, William J.) Measures of entanglement in multipartite bound entangled states. (English summary) **2005d:81079**

— (*with* Ericsson, Marie; Goldbart, Paul M.; Munro, William J.) Connections between relative entropy of entanglement and geometric measure of entanglement. (English summary) **2005h:81080**

Weigert, Stefan *see* **Iqbal, Azhar, 2005f:81029**

Werner, R. F. *see* **Gregoratti, M., 2005d:81049**

Winter, Andreas "Extrinsic" and "intrinsic" data in quantum measurements: asymptotic convex decomposition of positive operator valued measures. (English summary) **2005g:81050**

— *see also* **Leifer, M. S. et al., 2005d:81061** *and* **Matsumoto, Keiji[2] et al., 2005i:81018**

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Wong, Hon Man (*with* Cheng, Kai Ming; Chu, M.-C.) Quantum geometric phase between orthogonal states. (English summary) **2005k:81041**

Wood, J. G. *see* **Bracken, A. J., 2005g:81026**

Wu, Chunfeng *see* **Chen, Jing-Ling et al., 2005i:81009**

Wu, Ke[1] *see* **Wang, Xiaohong[2] et al., 2005h:81079** *and* **Fei, Shao Ming et al.**

Wu, Lian Ao (*with* Sarandy, M. S.; Lidar, Daniel A.) Quantum phase transitions and bipartite entanglement. (English summary) **2005h:81081**

Wu, Ru-Kuan *see* **Li, Shang-Bin et al., 2005d:81062**

Wu, Shu-Dong *see* **Chen, Ai-Xi**, 2005c:81020
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Xu, Jing-Bo *see* **Li, Shang-Bin et al.**, 2005d:81062
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Yan, YiJing *see* **Wang, Liang[1] et al.**, 2005f:81034
Yang, Ming[6] (*with* Song, Wei[2]; Cao, Zhuo-Liang) Entanglement swapping without joint measurement. (English summary) **2005m:81052**
Yang, Xiao Dong[1] *see* **You, Hao et al.**, 2005h:81082 *and* **Ma, Xiao San et al.**, 2005k:81037
Yao, Chun-Mei *see* **Gu, Yong-Jian et al.**, 2005j:81017
Ye, Liu (*with* Guo, Guang-Can) Scheme for entanglement concentration of atomic entangled states in cavity QED. (English summary) **2005b:81019**
Ye, Peng (*with* Zheng, Yi-Zhuang) Entanglement capabilities of non-local Hamiltonians with maximally entangled ancillary particles. (English summary) **2005d:81080**
Yin, Wen (*with* Liang, Jiu Qing; Yan, Qi Wei; Zhang, G.-F.) Time-evolution of entanglement and Greenberger-Horne-Zeilinger states in two-mode Bose-Einstein condensates. (English summary) **2005g:81051**
Ying, Mingsheng *see* **Ji, Zhengfeng et al.**, 2005d:81056 *and* **Cao, Hongen**, 2005h:81052
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You, Hao (*with* Wang, An Min; Yang, Xiao Dong[1]; Niu, Wan-Qing; Ma, Xiao San; Xu, Feng) Greenberger-Horne-Zeilinger correlation and Bell-type inequality seen from a moving frame. (English summary) **2005h:81082**
— *see also* **Ma, Xiao San et al.**, 2005k:81037
Yu, Chang-shui (*with* Song, He-shan) Free entanglement measure of multiparticle quantum states. (English summary)
Yu, Ya-fei (*with* Feng, Jian[1]; Zhou, Xiao-qing; Zhan, Ming-Sheng) Approximate disentanglement. (English summary) **2005b:81020**
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Zhan, Ming-Sheng *see* **Yu, Ya-fei et al.**, 2005b:81020 *and* **Huang, Yan-Xia**, 2005c:81027
Zhan, You-Bang Assisted cloning of an unknown two-particle entangled state. (English summary) **2005i:81024**
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Zhang, Qiang[1] *see* **Luo, Shunlong**, 2005a:81027
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Zhang, Zhengmin *see* **Luo, Shunlong**, 2005d:81063
Zhao, Hui (*with* Wang, Zhi-Xi) Separability criteria for quantum mixed states. (English summary) **2005j:81028**
— *see also* **Fei, Shao Ming et al.**, 2005d:81045
Zheng, Shi-Biao Quantum nonlocality and generation of multi-mode Schrödinger cat states. (English summary) **2005j:81029**
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Życzkowski, Marek *see* **Brukner, Časlav et al.**, 2005d:81037 *and* **Gosal, Darwin et al.**, 2005g:81031
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— *see also* **Paz, Juan Pablo**, (2005d:81105)
Życzkowski, Karol (*with* Bengtsson, Ingemar) On duality between quantum maps and quantum states. (English summary) **2005e:81036**
— (*with* Sommers, Hans-Jürgen) Average fidelity between random quantum states. (English summary) **2005m:81054**

Items listed otherwise than by author

Errata:
"Equivalence of additivity questions in quantum information theory" Erratum: "Equivalence of additivity questions in quantum information theory" [Comm. Math. Phys. **246** (2004), no. 3, 453–472; MR2053939 (2005e:81033a)] by P. W. Shor. **2005e:81033b**

Items with secondary classifications in 81P15

Abal, G. *see* **Romanelli, A. et al.**, 2005k:82033
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Åberg, Johan Subspace preservation, subspace locality, and gluing of completely positive maps. (English summary) **2005i:81062**
Al'beverio, S. (*with* Mazzucchi, S.) Some new developments in the theory of path integrals, with applications to quantum theory. (English summary) **2005c:81121**
Alicki, Robert (*with* Fannes, Mark) Quantum dynamics, measurement and entropy. (English summary) **2005m:82090**
Amosov, G. G. (*with* Man'ko, Vladimir I.) Tomographic quantum measures for many degrees of freedom and the central limit theorem. (English summary) **2005i:81075**
An, Jun-Hong (*with* Wang, Shun Jin; Luo, Hong-Gang) Entanglement production and decoherence-free subspace of two single-mode cavities embedded in a common environment. (English summary) **2005k:81382**
Auberson, G. (*with* Mahoux, G.; Roy, S. M.; Singh, Virendra) Marginal distributions in $(2N)$-dimensional phase space and the quantum $(N+1)$ marginal theorem. (English summary) **2005m:81189**
Auyuanet, A. *see* **Romanelli, A. et al.**, 2005k:82033
Ban, Masashi Correlation and information in quantum channels. (English summary) **2005d:81082**
— (*with* Kitajima, Sachiko; Shibata, Fumiaki) The classical capacity of a quantum dense coding system. (English summary) **2005d:94062**
Bandyopadhyay, Jayendra N. (*with* Lakshminarayan, Arul) Entanglement production in coupled chaotic systems: case of the kicked tops. (English summary) **2005e:81071**
Barnett, Stephen M. Optical demonstrations of statistical decision theory for quantum systems. (English summary) **2005k:81044**
Barrett, Jonathan (*with* Kent, Adrian) Non-contextuality, finite precision measurement and the Kochen-Specker theorem. (English summary) **2005d:81006**
Belavkin, Vyacheslav P. Eventum mechanics as the crossroad of probability, infinite-dimensionality and non-commutativity. (English summary) **2005c:81010**
Benvegnù, Alberto (*with* Sansonetto, Nicola; Spera, Mauro) Remarks on geometric quantum mechanics. (English summary) **2005e:81074**
Blanchard, Philippe (*with* Olkiewicz, Robert) Mathematical aspects of decoherence induced classicality in quantum systems. (English summary) **2005j:81076**
Bouwmeester, Dik (*with* Howell, John C.; Lamas-Linares, Antia) Quantum information science using photons. (English summary) (*see* **2005d:81105**)
Bowen, Garry Quantum feedback channels. (English summary)
Bowen, Warwick P. *see* **Lance, Andrew M. et al.**, 2005d:94178
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Byun, Yanghyun Lorentz invariant decompositions of the state vector spaces and the basis problem. (English summary)
Cao, Junpeng (*with* Sun, Zhou-Zhou; Yin, Sun; Wang, Yupeng; Wang, Xiang Rong) Magnetic impurity effect on the entanglement in the Ising model. (English summary) **2005k:82009**
Carmeli, Claudio (*with* Heinonen, Teiko; Toigo, Alessandro) Position and momentum observables on $\mathbb{R}$ and on $\mathbb{R}^3$. (English summary) **2005f:81082**
Chan, Kam Tai *see* **Luo, Yuhui**, 2005m:94028
Chen, Jing-Ling *see* **Sjöqvist, Erik**, 2005c:81073 *and* **Wu, Chunfeng et al.**, 2005g:82024
Chen, Jun-Hua *see* **Fan, Hong Yi[1]**, 2005e:81082
Chetcuti, Emmanuel (*with* Dvurečenskij, Anatolij) Measures on the splitting subspaces of an inner product space. (English summary) **2005b:46048**
Childs, Andrew M. (*with* Leung, Debbie W.; Vidal, Guifré) Reversible simulation of bipartite product Hamiltonians. (English summary) **2005e:94085**
Coecke, Bob (*with* Martin, Keye) Partiality in physics. (English summary) **2005j:81036**
Cramer, Marcus *see* **Plenio, M. B. et al.**, 2005m:82012
De-Long, Ren *see* **Xin, Tian et al.**
Devereux, Michael A modified Szilard's engine: measurement, information, and Maxwell's demon. (English summary) **2005i:82003**
DeWitt, Bryce S. Probability in the deterministic theory known as quantum mechanics. (*see* **2005j:83002**)
— The Everett interpretation of quantum mechanics.
Dias, Nuno Costa (*with* Prata, João Nuno) Admissible states in quantum phase space. (English summary) **2005h:81185**
Dickson, W. Michael A view from nowhere: quantum reference frames and uncertainty. (English summary) **2005b:81002**
Donangelo, Raul *see* **Romanelli, A. et al.**, 2005k:82033
Dreißig, J. *see* **Plenio, M. B. et al.**, 2005m:82012
Dukelsky, Jorge *see* **Vidal, Julien et al.**, 2005e:82034
Dürr, Detlef (*with* Goldstein, Sheldon; Zanghì, Nino) Quantum equilibrium and the role of operators as observables in quantum theory. (English summary) **2005f:81008**
Dvurečenskij, Anatolij *see* **Chetcuti, Emmanuel**, 2005b:46048
Eisert, J. *see* **Plenio, M. B. et al.**, 2005m:82012
(Engelbrecht, Chris) *see* **Fundamentals of quantum information**, 2005d:81105
Englert, Berthold-Georg *see* **Kwiat, Paul G.**
Fan, Heng (*with* Lloyd, Seth) Entanglement and off-diagonal long-range order of an η-pairing state. (English summary) **2005m:82019**
Fan, Hong Yi[1] (*with* Jiang, Nian-Quan) On the entangled fractional Fourier transform in tripartite entangled state representation. (English summary) **2005a:81041**
— (*with* Chen, Jun-Hua) EPR entangled states for bipartite kinematics and new bosonic representation of SU(2) algebra. (English summary) **2005e:81082**
— (*with* Li, Chao[3]) Solving master equation for two-mode density matrices by virtue of thermal entangled state representation. (English summary)
— Applications of Weyl ordered two-mode Wigner operator for quantum mechanical entangled system. (English summary) **2005a:81123**
— (*with* Lu, Hai-Liang) New two-mode coherent-entangled state and its application. (English summary) **2005m:81153**
— (*with* He, Hai-Yan) On the entangled state representation, excitation representation and effective number-phase state representations in Rindler space. (English summary) **2005e:81155**
— *see also* **Jiang, Nian-Quan**, 2005i:81052
Fannes, Mark *see* **Alicki, Robert**, 2005m:82090
Ferrero Melgar, Miguel *see* **Salgado, D. et al.**, 2005k:46185
Flitney, Adrian P. (*with* Abbott, Derek) Advantage of a quantum player over a classical one in 2×2 quantum games. (English summary) **2005f:81039**
Frieden, B. Roy ★ Science from Fisher information. **2005f:81048**
(Fu, Li-Bin) *see* **Sjöqvist, Erik**, 2005c:81073
Garola, Claudio (*with* Pykacz, Jarosław) Locality and measurements within the SR model for an objective interpretation of quantum mechanics. (English summary) **2005a:81006**
Ge, Xian-Hui (*with* Shen, You-Gen) Can quantum information be cloned in Kerr black holes? (English summary) **2005b:83058**
Genovese, Marco Research on hidden variable theories: a review of recent progresses. (English summary) **2005m:81008**
Giovannetti, Vittorio (*with* Lloyd, Seth) Additivity properties of a Gaussian channel. (English summary) **2005e:94089**
— (*with* Lloyd, Seth; Maccone, Lorenzo; Shapiro, Jeffrey H.; Yen, Brent J.) Minimum Rényi and Wehrl entropies at the output of bosonic channels. (English summary) **2005e:94042**
Gohm, Rolf Kümmerer-Maassen-scattering theory and entanglement. (English summary) **2005d:81217**
Goldstein, Sheldon *see* **Dürr, Detlef et al.**, 2005f:81008

Gough, John Edward (*with* Sobolev, Andrei) Stochastic Schrödinger equations as limit of discrete filtering. (English summary) **2005h:81182**

Grasselli, M. R. Duality, monotonicity and the Wigner-Yanase-Dyson metrics. (English summary) **2005k:82053**

Greaves, H. Understanding Deutsch's probability in a deterministic multiverse. (English summary)

Gregory, Lee A dynamical model for quantum bit decoherence in discrete time. (English summary) **2005h:81094**

Gu, Shi-Jian (*with* Tian, Guang-Shan; Lin, Hai-Qing) Ground-state entanglement in the *XXZ* model. (English summary) **2005m:82021**

Hall, Michael J. W. Superselection from canonical constraints. (English summary) **2005f:81011**

Hamhalter, Jan States and structure of von Neumann algebras. (English summary) **2005i:46070**

Haroche, Serge Breeding nonlocal Schrödinger cats: a thought-experiment to explore the quantum-classical boundary.

Harrow, Aram W. (*with* Lo, Hoi-Kwong) A tight lower bound on the classical communication cost of entanglement dilution. (English summary) **2005e:94044**

Hartley, Julian (*with* Vedral, Vlatko) Entropy as a function of geometric phase. (English summary) **2005f:81078**

Hasegawa, Hiroshi H. Dual geometry of the Wigner-Yanase-Dyson information content. (English summary) **2005f:82009**

Haselgrove, Henry L. (*with* Nielsen, Michael A.; Osborne, Tobias J.) Entanglement, correlations, and the energy gap in many-body quantum systems. (English summary) **2005c:81038**

Hayden, Patrick (*with* Leung, Debbie W.; Shor, Peter W.; Winter, Andreas) Randomizing quantum states: constructions and applications. (English summary) **2005h:81095**

He, Hai-Yan *see* **Fan, Hong Yi[1], 2005e:81155**

Heinonen, Teiko *see* **Carmeli, Claudio et al., 2005f:81082**

(Heiss, W. Dieter) *see* **Fundamentals of quantum information, 2005d:81105**

Hessian, Hosny A. *see* **Obada, Abdel-Shafy F., 2005e:81278**

Horak, Peter The role of squeezing in quantum key distribution based on homodyne detection and post-selection. (English summary)

Howell, John C. *see* **Bouwmeester, Dik et al., (2005d:81105)**

Hrushovski, Ehud (*with* Pitowsky, Itamar) Generalizations of Kochen and Specker's theorem and the effectiveness of Gleason's theorem. (English summary) **2005d:81017**

Jamiołkowski, Andrzej On a stroboscopic approach to quantum tomography of qudits governed by Gaussian semigroups. (English summary) **2005a:81043**

— (*with* Jurkowski, J.; Michalski, Miłosz; Życzkowski, Karol) Editorial note [36th Symposium on Mathematical Physics and the International Conference "Entanglement, Information and Noise"].

Janke, Wolfhard *see* **Johnston, Desmond A. et al., 2005d:82012**

Jiang, Nian-Quan (*with* Fan, Hong Yi[1]) Fractional entangled Fourier transform and non-unitary SU(2) bosonic operator realization. (English summary) **2005i:81052**

— *see also* **Fan, Hong Yi[1], 2005a:81041**

Jin, B.-Q. (*with* Korepin, Vladimir) Quantum spin chain, Toeplitz determinants and the Fisher-Hartwig conjecture. (English summary) **2005e:82015**

Johansen, Lars M. Nonclassical properties of coherent states. (English summary) **2005c:81093**

Johnston, Desmond A. (*with* Janke, Wolfhard; Kenna, R.) Information geometry, one, two, three (and four). (English summary) **2005d:82012**

Jordan, Thomas F. (*with* Shaji, Anil; Sudarshan, E. C. George) Dynamics of initially entangled open quantum systems. (English summary) **2005j:82047**

Jurkowski, J. *see* **Jamiołkowski, Andrzej et al.**

Kato, Goro C. Elemental principles of t-topos. (English summary) **2005k:81009**

Keating, Jonathan P. (*with* Mezzadri, F.) Entanglement in quantum spin chains, symmetry classes of random matrices, and conformal field theory. (English summary) **2005m:82024**

Kenna, R. *see* **Johnston, Desmond A. et al., 2005d:82012**

Kent, Adrian *see* **Barrett, Jonathan, 2005d:81006**

Kholevo, Aleksandr Semenovich Quantum and classical stochastic calculus. **2005c:81118**

Khrennikov, Andrei Yu. (*with* Kozyrev, Sergei) The contextual quantization and the principle of complementarity of probabilities. (English summary) **2005k:81010**

— *see also* **Nánásiová, Olga, 2005h:81036** *and* **Plotnitsky, Arkady, 2005k:81015**

King, Christopher (*with* Ruskai, Mary Beth) Comments on multiplicativity of maximal *p*-norms when $p = 2$. (English summary) **2005k:81119**

Kitajima, Sachiko *see* **Ban, Masashi et al., 2005d:94062**

Knight, Peter L. (*with* Roldán, Eugenio; Sipe, J. E.) Propagating quantum walks: the origin of interference structures. (English summary) **2005e:81124**

Korepin, Vladimir *see* **Jin, B.-Q., 2005e:82015**

Koshino, Kazuki Relation between conventional and dynamical formalisms in the quantum Zeno effect. (English summary) **2005m:81010**

Kozyrev, Sergei *see* **Khrennikov, Andrei Yu., 2005k:81010** *and* **Plotnitsky, Arkady, 2005k:81015**

Kwek, L. C. *see* **Wu, Chunfeng et al., 2005g:82024**

Kwiat, Paul G. (*with* Englert, Berthold-Georg) Quantum erasing the nature of reality: or, perhaps, the reality of nature?

Lakshminarayan, Arul *see* **Bandyopadhyay, Jayendra N., 2005e:81071**

Lam, Ping Koy *see* **Lance, Andrew M. et al., 2005d:94178**

Lamas-Linares, Antia *see* **Bouwmeester, Dik et al., (2005d:81105)**

Lance, Andrew M. (*with* Symul, Thomas; Bowen, Warwick P.; Tyc, Tomáš; Sanders, Barry C.; Lam, Ping Koy) Continuous variable (2, 3) threshold quantum secret sharing schemes. (English summary) **2005d:94178**

Leahy, J. V. *see* **Schirmer, Sonia G. et al., 2005a:81274**

Leung, Debbie W. *see* **Childs, Andrew M. et al., 2005e:94085** *and* **Hayden, Patrick et al., 2005h:81095**

Lévay, Péter The geometry of entanglement: metrics, connections and the geometric phase. (English summary) **2005d:81092**

— Thomas rotation and the mixed state geometric phase. (English summary) **2005d:81164**

Li, Chao[3] *see* **Fan, Hong Yi[1]**

Li, Cheng-Zu *see* **Liang, Lin-mei, 2005k:81049**

Li, Yongmin (*with* Zhang, Kuanshou; Peng, Kunchi) Multiparty secret sharing of quantum information based on entanglement swapping. (English summary) **2005c:94065**

Li, You Quan[1] *see* **Zhu, Guo-Qiang et al., 2005m:81075**

Liang, Lin-mei (*with* Li, Cheng-Zu) Nonlocality without inequalities for two-qubit mixed states based on Cabello's nonlocality. (English summary) **2005k:81049**

Liang, Liu *see* **Xin, Tian et al.**

Lin, Hai-Qing *see* **Gu, Shi-Jian et al., 2005m:82021**

Lin, Jia-Tih *see* **Xin, Tian et al.**

Lloyd, Seth *see* **Giovannetti, Vittorio et al., 2005e:94042; 2005e:94089** *and* **Fan, Heng, 2005m:82019**

Lo, Hoi-Kwong *see* **Harrow, Aram W., 2005e:94044**

Lu, Hai-Liang *see* **Fan, Hong Yi[1], 2005m:81153**

Luo, Hong-Gang *see* **An, Jun-Hong et al., 2005k:81382**

Luo, Shunlong (*with* Zhang, Qiang[1]) On skew information. (English summary) **2005e:94049**

Luo, Yuhui (*with* Chan, Kam Tai) Quantum cryptography with perfect multiphoton entanglement. (English summary) **2005m:94028**

Maccone, Lorenzo *see* **Giovannetti, Vittorio et al., 2005e:94042**

Mahoux, G. *see* **Auberson, G. et al., 2005m:81189**

Majewski, Władysław A. On quantum correlations and positive maps. (English summary) **2005f:46124**

Man'ko, Vladimir I. *see* **Amosov, G. G., 2005i:81075**

Marchiolli, Marcelo A. *see* **Mendonça, Paulo E. M. F. et al., 2005h:81096**

Martin, Keye *see* **Coecke, Bob, 2005j:81036**

Mazzucchi, S. *see* **Al'beverio, S., 2005c:81121**

Mendonça, Paulo E. M. F. (*with* Marchiolli, Marcelo A.; Napolitano, Reginaldo d. J.) Using continuous measurement to protect a universal set of quantum gates within a perturbed decoherence-free subspace. (English summary) **2005h:81096**

Mezzadri, F. *see* **Keating, Jonathan P., 2005m:82024**

Michalski, Miłosz *see* **Jamiołkowski, Andrzej et al.**

Mihara, Takashi Splitting information securely with entanglement. (English summary) **2005i:94014**

Molnár, Lajos Sequential isomorphisms between the sets of von Neumann algebra effects. (English summary) **2005d:46128**

Moore, Joel E. *see* **Refael, G., 2005j:82016**

Moriya, Hajime On the states having pure-state restrictions for a pair of regions with a non-trivial intersection. (English summary) **2005f:81122**

Mosseri, Rémy *see* **Vidal, Julien et al., 2005e:82034**

de Muynck, Willem M. ★ Foundations of quantum mechanics, an empiricist approach. **2005i:81004**

Nánásiová, Olga Map for simultaneous measurements for a quantum logic. (English summary) **2005c:81018**

— (*with* Khrennikov, Andrei Yu.) Marginality in non-compatible random events. (English summary) **2005h:81036**

Napolitano, Reginaldo d. J. *see* **Mendonça, Paulo E. M. F. et al., 2005h:81096**

Naudts, Jan Escort density operators and generalized quantum information measures. (English summary) **2005m:82011**

Nemoto, Kae (*with* Braunstein, Samuel L.) Quantum coherence: myth or fact? (English summary) **2005i:81195**

Nielsen, Michael A. *see* **Haselgrove, Henry L. et al., 2005c:81038**

Niu, Wan-Qing (*with* Wang, An Min; You, Hao; Yang, Xiao Dong[1]) All-versus-nothing nonlocality for two photons from different sources. (English summary)

Obada, Abdel-Shafy F. (*with* Hessian, Hosny A.) Entanglement generation and entropy growth due to intrinsic decoherence in the Jaynes-Cummings model. (English summary) **2005e:81278**

Oh, Choo Hiap *see* **Wu, Chunfeng et al., 2005g:82024**

O'Hara, Paul P. Rotational invariance and baryonic structure. (English summary) **2005a:81263**

Olkiewicz, Robert *see* **Blanchard, Philippe, 2005j:81076**

Osborne, Tobias J. *see* **Haselgrove, Henry L. et al., 2005c:81038**

Parker, Matthew G. Spectrally bounded sequences, codes, and states: graph constructions and entanglement. (English summary) (*see* **2005b:94001**)

Peng, Kunchi *see* **Li, Yongmin et al., 2005c:94065**

Peres, Asher Quantum information and general relativity. (English summary) **2005h:83123**

Pitowsky, Itamar *see* **Hrushovski, Ehud, 2005d:81017**

Planat, Michel (*with* Rosu, H. C.) The hyperbolic, the arithmetic and the quantum phase. (English summary) **2005e:81125**

Plenio, M. B. (*with* Eisert, J.; Dreißig, J.; Cramer, Marcus) Entropy, entanglement, and area: analytical results for harmonic lattice systems. (English summary) **2005m:82012**

Plotnitsky, Arkady On the character of Bohr's complementarity: response to Andrei Khrennikov and Sergei Kozyrev's "The contextual quantization and the principle of complementarity of probabilities" [in *Quantum theory: reconsideration of foundations—2*, 723–745, Växjö Univ. Press, Växjö, 2004; MR2111153 (2005k:81010)]. **2005k:81015**

Poizat, Jean-Philippe *see* **Simon, Christoph**

Prata, João Nuno *see* **Dias, Nuno Costa, 2005h:81185**

Pykacz, Jarosław *see* **Garola, Claudio, 2005a:81006**

Refael, G. (*with* Moore, Joel E.) Entanglement entropy of random quantum critical points in one dimension. (English summary) **2005j:82016**

Roldán, Eugenio *see* **Knight, Peter L. et al., 2005e:81124**

Romanelli, A. (*with* Siri, R.; Abal, G.; Auyuanet, A.; Donangelo, Raul) Decoherence in the quantum walk on the line. (English summary) **2005k:82033**

Rosu, H. C. *see* **Planat, Michel, 2005e:81125**

Roy, S. M. *see* **Auberson, G. et al., 2005m:81189**

Ruetsche, Laura Intrinsically mixed states: an appreciation. (English summary) **2005g:81143**

Ruskai, Mary Beth *see* **King, Christopher, 2005k:81119**

Saitô, Nobuhiko Theory of quantum measurement in terms of quantum chaos. (English summary)

Salgado, D. (*with* Sánchez-Gómez, J. L.; Ferrero Melgar, Miguel) A simple proof of

the Jamiołkowski criterion for complete positivity of linear maps. (English summary) **2005k:46185**

Sánchez-Gómez, J. L. *see* **Salgado, D. et al., 2005k:46185**

Sanders, Barry C. *see* **Lance, Andrew M. et al., 2005d:94178**

Sansonetto, Nicola *see* **Benvegnù, Alberto et al., 2005e:81074**

Schirmer, Sonia G. (*with* Zhang, Tan; Leahy, J. V.) Orbits of quantum states and geometry of Bloch vectors for n-level systems. (English summary) **2005a:81274**

Shaji, Anil *see* **Jordan, Thomas F. et al., 2005j:82047**

Shapiro, Jeffrey H. *see* **Giovannetti, Vittorio et al., 2005e:94042**

Shen, You-Gen *see* **Ge, Xian-Hui, 2005b:83058**

Shi, Yu Entanglement in relativistic quantum field theory. (English summary) **2005i:81179**

Shibata, Fumiaki *see* **Ban, Masashi et al., 2005d:94062**

Shor, Peter W. *see* **Hayden, Patrick et al., 2005h:81095**

Simon, Christoph (*with* Poizat, Jean-Philippe) Creating single time-bin-entangled photon pairs. (English summary)

Singh, Sudhir Kumar (*with* Srikanth, Radhakrishna) Generalized quantum secret sharing. (English summary) **2005i:94015**

Singh, Virendra *see* **Auberson, G. et al., 2005m:81189**

Sipe, J. E. *see* **Knight, Peter L. et al., 2005e:81124**

Siri, R. *see* **Romanelli, A. et al., 2005k:82033**

Sjöqvist, Erik Comment on: "Geometric phases for mixed states during cyclic evolutions" [J. Phys. A **37** (2004), no. 11, 3699–3705; MR2042151 (2004m:81089)] by L.-B. Fu and J.-L. Chen. (English summary) **2005c:81073**

Sobolev, Andrei *see* **Gough, John Edward, 2005h:81182**

Spera, Mauro *see* **Benvegnù, Alberto et al., 2005e:81074**

Srikanth, Radhakrishna *see* **Singh, Sudhir Kumar, 2005i:94015**

Sudarshan, E. C. George *see* **Jordan, Thomas F. et al., 2005j:82047**

Summhammer, Johann Structure of probabilistic information and quantum laws. (English summary) **2005f:60012**

Sun, Zhou-Zhou *see* **Cao, Junpeng et al., 2005k:82009**

Symul, Thomas *see* **Lance, Andrew M. et al., 2005d:94178**

Tanona, Scott Uncertainty in Bohr's response to the Heisenberg microscope. (English summary)

Tian, Guang-Shan *see* **Gu, Shi-Jian et al., 2005m:82021**

Toigo, Alessandro *see* **Carmeli, Claudio et al., 2005f:81082**

Tong, Dian Min *see* **Wu, Chunfeng et al., 2005g:82024**

Tóth, Géza[2] Entanglement witnesses in spin models. (English summary) **2005i:81033**

Tyc, Tomáš *see* **Lance, Andrew M. et al., 2005d:94178**

Vedral, Vlatko *see* **Hartley, Julian, 2005f:81078**

Vidal, Guifré *see* **Childs, Andrew M. et al., 2005e:94085**

Vidal, Julien (*with* Mosseri, Rémy; Dukelsky, Jorge) Entanglement in a first-order quantum phase transition. (English summary) **2005e:82034**

Volovich, Igor V. Quantum cryptography in space and Bell's theorem. (English summary) (*see* **2005c:81006**)

Wang, An Min *see* **Niu, Wan-Qing et al.**

Wang, Shun Jin *see* **An, Jun-Hong et al., 2005k:81382**

Wang, Xiang Rong *see* **Cao, Junpeng et al., 2005k:82009**

Wang, Xiao Guang Entanglement and spin squeezing in the three-qubit transverse Ising model. (English summary) **2005d:82028**

Wang, Yupeng *see* **Cao, Junpeng et al., 2005k:82009**

Watanabe, Teppei Locality and orthomodular structure of compound systems. (English summary) **2005e:81019**

Winter, Andreas *see* **Hayden, Patrick et al., 2005h:81095**

Wu, Chunfeng (*with* Chen, Jing-Ling; Tong, Dian Min; Kwek, L. C.; Oh, Choo Hiap) Quantum nonlocality of Heisenberg XX model with site-dependent coupling strength. (English summary) **2005g:82024**

Xin, Tian (*with* Lin, Jia-Tih; Liang, Liu; De-Long, Ren) Entanglement in the XY Heisenberg model. (English summary)

Yang, Xiao Dong[1] *see* **Niu, Wan-Qing et al.**

Yen, Brent J. *see* **Giovannetti, Vittorio et al., 2005e:94042**

Yin, Sun *see* **Cao, Junpeng et al., 2005k:82009**

You, Hao *see* **Niu, Wan-Qing et al.**

Zanghì, Nino *see* **Dürr, Detlef et al., 2005f:81008**

Zhang, Kuanshou *see* **Li, Yongmin et al., 2005c:94065**

Zhang, Qiang[1] *see* **Luo, Shunlong, 2005e:94049**

Zhang, Tan *see* **Schirmer, Sonia G. et al., 2005a:81274**

Zhao, Xuean *see* **Zhu, Guo-Qiang et al., 2005m:81075**

Zhu, Guo-Qiang (*with* Zhao, Xuean; Li, You Quan[1]) Entanglement of two-qutrit system. (English summary) **2005m:81075**

Życzkowski, Karol *see* **Jamiołkowski, Andrzej et al.**

Items listed otherwise than by author

Fundamentals of quantum information ★ Fundamentals of quantum information. **2005d:81105**

Lecture Notes in Physics ★ Fundamentals of quantum information. **2005d:81105**

Stellenbosch ★ Fundamentals of quantum information. **2005d:81105**

81P20 Stochastic mechanics (including stochastic electrodynamics)

Askerud, T. *see* **Gambetta, Jay et al., 2005f:81035**

Gambetta, Jay (*with* Askerud, T.; Wiseman, H. M.) Jumplike unravelings for non-Markovian open quantum systems. (English summary) **2005f:81035**

Kobayashi, Yoshiji Derivation of the continuity equation from a pseudo-stochastic action. (English summary) **2005b:81022**

Kracklauer, A. F. "Complementarity" or schizophrenia: is probability in quantum mechanics information or onta? (English summary) (*see* **2005c:81006**)

Mann, Robert B. *see* **Ord, G. N., 2005c:81034**

Markopoulou, Fotini (*with* Smolin, Lee) Quantum theory from quantum gravity. (English summary) **2005m:81055**

Ord, G. N. (*with* Mann, Robert B.) Entwined pairs and Schrödinger's equation. (English summary) **2005c:81034**

Pavon, Michele A footnote to Nelson's interpretation of the two-slit experiment. (English summary) **2005b:81023**

Smolin, Lee *see* **Markopoulou, Fotini, 2005m:81055**

Wiseman, H. M. *see* **Gambetta, Jay et al., 2005f:81035**

Items with secondary classifications in 81P20

van Casteren, Jan A. The Hamilton-Jacobi-Bellman equation and the stochastic Noether theorem. **2005d:49047**

De Martino, Salvatore (*with* De Siena, Silvio; Fedele, Renato; Tzenov, Stephan I.) Mesoscopic description of dynamical systems: hierarchy of recursive equations for the moments of the density distribution with an application to charged particle beam dynamics. (English summary) **2005f:70022**

De Siena, Silvio *see* **De Martino, Salvatore et al., 2005f:70022**

Fedele, Renato *see* **De Martino, Salvatore et al., 2005f:70022**

Figueiredo, J. M. A. *see* **Torres, M. S., Jr., 2005b:82069**

Georgii, Hans-Otto *see* **Tumulka, Roderich, 2005m:81329**

Hall, Michael J. W. Incompleteness of trajectory-based interpretations of quantum mechanics. (English summary)

Lescot, Paul (*with* Zambrini, Jean-Claude) Isovectors for the Hamilton-Jacobi-Bellman equation, formal stochastic differentials and first integrals in Euclidean quantum mechanics. (English summary) **2005j:60132**

Lim, S. C. (*with* Muniandy, S. V.) Stochastic quantization of nonlocal fields. (English summary) **2005j:81094**

Morato, Laura M. Some new conditions for the existence of singular non-symmetric diffusions. (English summary) **2005k:60255**

Muniandy, S. V. *see* **Lim, S. C., 2005j:81094**

Olavo, L. S. F. Foundations of quantum mechanics: the connection between QM and the central limit theorem. (English summary) **2005g:81015**

Torres, M. S., Jr. (*with* Figueiredo, J. M. A.) Probability amplitude structure of Fokker-Plank equation. (English summary) [Probability amplitude structure of Fokker-Planck equation] **2005b:82069**

Tumulka, Roderich (*with* Georgii, Hans-Otto) Some jump processes in quantum field theory. (English summary) **2005m:81329**

Tzenov, Stephan I. *see* **De Martino, Salvatore et al., 2005f:70022**

Villani, Matteo Variational extensions of classical mechanics: stochastic and quantum dynamics. (English summary) **2005c:70023**

Zambrini, Jean-Claude *see* **Lescot, Paul, 2005j:60132**

81P68 Quantum computation and quantum cryptography [see also 68Q05, 94A60]

Aaronson, Scott Quantum lower bound for recursive Fourier sampling. (English summary) **2005b:81024**

— Multilinear formulas and skepticism of quantum computing. (English summary) **2005j:81030**

— Erratum: "Quantum lower bound for recursive Fourier sampling" [Quantum Inf. Comput. **3** (2003), no. 2, 165–174; MR1965587 (2005b:81024)]. (English summary)

Abal, G. *see* **Romanelli, A. et al., 2005f:81045**

Abbott, Derek (*with* Doering, Charles R.; Caves, Carlton M.; Lidar, Daniel A.; Brandt, Howard E.; Hamilton, Alex R.; Ferry, David K.; Gea-Banacloche, Julio; Bezrukov, Sergey M.; Kish, Laszlo B.) Dreams versus reality: plenary debate session on quantum computing.

— *see also* **Flitney, Adrian P., 2005f:81039**

Abdel-Aty, Mahmoud (*with* Obada, Abdel-Shafy F.) Analytic solution for entangled two-qubit in a cavity field. (English summary) **2005h:81083**

Accardi, Luidgi (*with* Ohya, Masanori) A stochastic limit approach to the SAT problem. (English summary) **2005k:81042**

Adami, Christoph *see* **Mitchell, David R. et al., 2005m:81066**

Adhikari, Satyabrata (*with* Choudhury, Binayak S.) Deletion of imperfect cloned copies. (English summary) **2005h:81084**

Aharonov, Dorit (*with* Ta-Shma, Amnon; Vazirani, Umesh V.; Yao, Andrew Chi-Chih) Quantum bit escrow. (*see* **2005i:68003**)

— (*with* Ta-Shma, Amnon) Adiabatic quantum state generation and statistical zero knowledge. (English summary) **2005j:81031**

Aharonov, Yakir (*with* Zubairy, M. Suhail) Time and the quantum: erasing the past and impacting the future. (English summary) **2005j:81032**

Ali, M. K. *see* **Andrecut, M., 2005g:81052; 2005g:81053; 2005g:81054** *and* **2005h:81086**

Alicki, Robert (*with* Horodecki, Michał; Horodecki, Paweł; Horodecki, Ryszard) Thermodynamics of quantum information systems—Hamiltonian description. (English summary) **2005h:81085**

Al-Rabadi, Anas N. (*with* Zwick, Martin) Reversible modified reconstructability analysis of Boolean circuits and its quantum computation. (English summary) **2005a:81038**

Altman, Christopher (*with* Pykacz, Jarosław; Zapatrin, Romàn R.) Superpositional quantum network topologies. (English summary) **2005k:81043a**

— (*with* Pykacz, Jarosław; Zapatrin, Romàn R.) Superpositional quantum network topologies. (English summary) **2005k:81043b**

Ambainis, Andris (*with* Schulman, Leonard J.; Vazirani, Umesh V.) Computing with highly mixed states (extended abstract). (*see* **2005i:68003**)

— Quantum algorithms a decade after Shor. (English summary) **2005j:81033**

— (*with* Iwama, Kazuo; Kawachi, Akinori; Masuda, Hiroyuki; Putra, Raymond H.; Yamashita, Shigeru) Quantum identification of Boolean oracles. (English summary) **2005f:81036**

Andrecut, M. (*with* Ali, M. K.) Unstructured adiabatic quantum search. (English summary) **2005g:81052**

— (*with* Ali, M. K.) Adiabatic quantum gates. (English summary) **2005g:81053**

— (*with* Ali, M. K.) Adiabatic quantum gates and Boolean functions. (English summary) **2005g:81054**

— (*with* Ali, M. K.) Adiabatic quantum oracles. (English summary) **2005h:81086**

Arvind, V. (*with* Kurur, Piyush P.; Parthasarathy, Kalyanapuram Rangachari) Non-stabilizer quantum codes from abelian subgroups of the error group. (English summary) **2005m:81056**

Auyuanet, A. *see* **Romanelli, A. et al., 2005f:81045**

Azuma, Hiroo Interaction-free quantum computation. (English summary) **2005d:81081**

Bach, Eric (*with* Coppersmith, Susan; Goldschen, Marcel Paz; Joynt, Robert; Watrous, John) One-dimensional quantum walks with absorbing boundaries. (English summary) **2005h:81087**

Balasubramanian, Sunder *see* **Do, Binh et al.**

Ban, Masashi Correlation and information in quantum channels. (English summary) **2005d:81082**

— Properties of continuous variable quantum teleportation. (English summary) **2005f:81037**

— Phase-space approach to continuous variable quantum teleportation. (English summary) **2005b:81025**

Barnett, Stephen M. Optical demonstrations of statistical decision theory for quantum systems. (English summary) **2005k:81044**

Barnum, Howard *see* **Li, Xiao Yu[3], 2005d:81093**

Barrett, M. D. *see* **Chiaverini, J. et al., 2005k:81046**

Batty, Michael (*with* Braunstein, Samuel L.; Duncan, Andrew J.; Rees, Sarah) Quantum algorithms in group theory. (English summary) **2005e:81037**

Beausoleil, R. G. (*with* Munro, William J.; Spiller, T. P.) Applications of coherent population transfer to quantum information processing. (English summary)

Belokurov, V. V. (*with* Sadovnichiĭ, Viktor Antonovich; Timofeevskaya, O. D.; Khrustalëv, O. A.) Problems of the development of the theory of quantum communication. (Russian) (*see* **2005g:94088**)

Benenti, Giuliano (*with* Casati, Giulio; Strini, Giuliano) ★ Principles of quantum computation and information. Vol. I. **2005f:81038**

Bennett, Charles H. A resource-based view of quantum information. (English summary) **2005i:81025**

Berman, G. P. (*with* Kamenev, D. I.; Tsifrinovich, V. I.) Collective decoherence of the superpositional entangled states in the quantum Shor algorithm. (English summary) **2005m:81057**

Bessen, Arvid J. The power of various real-valued quantum queries. (English summary) **2005e:81038**

Bezrukov, Sergey M. *see* **Abbott, Derek et al.**

Biham, Eli (*with* Brassard, Gilles; Kenigsberg, Dan; Mor, Tal) Quantum computing without entanglement. (English summary) **2005e:81039**

Binz, Ernst (*with* Pods, Sonja) Classical and quantum information transmission. (English summary) **2005j:81034**

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Boucher, William *see* **Debuisschert, Thierry, 2005g:81057**

Bouwmeester, Dik (*with* Howell, John C.; Lamas-Linares, Antia) Quantum information science using photons. (English summary) (*see* **2005d:81105**)

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Brassard, Gilles *see* **Biham, Eli et al., 2005e:81039**

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— (*with* Markov, Igor L.) Asymptotically optimal circuits for arbitrary n-qubit diagonal computations. (English summary) **2005b:81026**

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— *see also* **Brennen, Gavin K. et al., 2005m:81058**

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— (*with* Dalla Chiara, Maria Luisa; Giuntini, Roberto; Leporini, Roberto) An unsharp logic from quantum computation. (English summary) **2005j:81035**

— (*with* Dalla Chiara, Maria Luisa; Giuntini, Roberto; Leporini, Roberto) Quantum computational structures. (English summary) **2005e:81042**

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Chen, Goong (*with* Church, D. A.; Englert, Berthold-Georg; Zubairy, M. Suhail) Mathematical models of contemporary elementary quantum computing devices. (English summary) **2005a:81039**

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Chiaverini, J. (*with* Britton, Joe; Leibfried, D.; Knill, Emanuel; Barrett, M. D.; Blakestad, R. B.; Itano, W. M.; Jost, J. D.; Langer, Chris; Ozeri, R.; Schaetz, T.; Wineland, D. J.) Implementation of the semiclassical quantum Fourier transform in a scalable system. (English summary) **2005k:81046**

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— (*with* Devitt, S. J.; Hollenberg, Lloyd C. L.) Implementation of Shor's algorithm on a linear nearest neighbour qubit array. (English summary) **2005c:81036**

Friedl, Katalin (*with* Magniez, Frédéric; Santha, Miklos; Sen, Pranab) Quantum testers for hidden group properties. (English summary) (*see* **2005b:68020**)

— (*with* Ivanyos, Gábor; Magniez, Frédéric; Santha, Miklos; Sen, Pranab) Hidden translation and orbit coset in quantum computing. (English summary) **2005j:81037**

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Georgeot, B. Quantum computing of Poincaré recurrences and periodic orbits. (English summary) **2005a:81042**

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— (*with* Schulman, Leonard J.; Vazirani, Monica; Vazirani, Umesh V.) Quantum mechanical algorithms for the nonabelian hidden subgroup problem. (English summary) **2005b:81027**

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— *see also* **Ettinger, J. Mark et al., 2005a:81040**

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— *see also* **Song, Guang, 2005h:81101**

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Long, Gui Lu (*with* Li, Xiao[1]) Parallel quantum computing in a single ensemble quantum computer. (English summary) **2005d:81094**

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Nayak, Ashwin (*with* Salzman, Julia) On communication over an entanglement-assisted quantum channel. (English summary) (*see* **2005i:68004**)
— *see also* **Klauck, Hartmut et al.**, (**2005j:68008**)
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Nielsen, Michael A. *see* **Haselgrove, Henry L. et al., 2005c:81038**
Nishimura, Harumichi On quantum computation with some restricted amplitudes. (English summary) (*see* **2004j:68020**)
— (*with* Yamakami, Tomoyuki) Polynomial time quantum computation with advice. (English summary) **2005a:81046**
Nori, Franco *see* **Wei, Lian Fu, 2005a:81049**
Novak, Erich (*with* Sloan, Ian H.; Woźniakowski, Henryk) Tractability of approximation for weighted Korobov spaces on classical and quantum computers. (English summary) **2005h:81097**
Obada, Abdel-Shafy F. *see* **Abdel-Aty, Mahmoud, 2005h:81083**
Ohya, Masanori (*with* Volovich, Igor V.) New quantum algorithm for studying NP-complete problems. (English summary) **2005f:81043**
— *see also* **Accardi, Luidgi, 2005k:81042**
O'Leary, Dianne P. *see* **Brennen, Gavin K. et al., 2005m:81058**
Ono, Hirotaka *see* **Kobayashi, Takenori et al., 2005c:81040**
Osborne, Tobias J. *see* **Haselgrove, Henry L. et al., 2005c:81038**
Ozeri, R. *see* **Chiaverini, J. et al., 2005k:81046**
Papageorgiou, Anargyros Average case quantum lower bounds for computing the Boolean mean. (English summary) **2005g:81064**
Parthasarathy, Kalyanapuram Rangachari A remark on the unitary group of a tensor product of n finite-dimensional Hilbert spaces. (English summary) **2005d:81098**
— *see also* **Arvind, V. et al., 2005m:81056**
(Pati, Arun K.) *see* **Quantum information with continuous variables, 2005d:81106**
Paz, Juan Pablo Using qubits to learn about "it".
— (*with* Roncaglia, Augusto José; Saraceno, Marcos) Quantum algorithms for phase-space tomography. (English summary) **2005a:81047**
Pérez-Suárez, Marcos (*with* Santos, David J.) Quantum mechanics as an information theory: some further musings on a Fuchsian proposal. (English summary) **2005h:81098**
Peruš, Mitja *see* **Loo, Chu Kiong et al., 2005f:81041**
Piotrowski, Edward W. (*with* Sładkowski, Jan) The next stage: quantum game theory. (English summary) **2005e:81045**
Planat, Michel *see* **Saniga, Metod et al., 2005f:81046**
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Putra, Raymond H. *see* **Ambainis, Andris et al., 2005f:81036**
Pykacz, Jarosław *see* **Altman, Christopher et al., 2005k:81043a**; **2005k:81043b** *and* **D'Hooghe, Bart et al., 2005m:81061**
Razborov, A. A. An upper bound on the threshold quantum decoherence rate. (English summary) **2005g:81065**
Rees, Sarah *see* **Batty, Michael et al., 2005e:81037**
Regev, Oded Quantum computation and lattice problems. (English summary) **2005f:81044**
Reichardt, Ben W. The quantum adiabatic optimization algorithm and local minima. (English summary) **2005j:81042**
Renes, Joseph M. Spherical-code key-distribution protocols for qubits. (English summary) **2005g:81066**
— Equiangular spherical codes in quantum cryptography. (English summary) **2005i:81029**
Rezakhani, A. T. Characterization of two-qubit perfect entanglers. (English summary) **2005g:81067**
Ricci, Manuela *see* **Sciarrino, F. et al., 2005a:81048**
Rigetti, Chad (*with* Mosseri, Rémy; Devoret, Michel) Geometric approach to digital quantum information. (English summary) **2005i:81030**
Romanelli, A. (*with* Sicardi-Schifino, Anibal C.; Siri, R.; Abal, G.; Auyuanet, A.; Donangelo, Raul) Quantum random walk on the line as a Markovian process. (English summary) **2005f:81045**
Roncaglia, Augusto José *see* **Paz, Juan Pablo et al., 2005a:81047**
Rossignoli, R. *see* **Canosa, N., 2005h:81089**
Rosu, H. C. *see* **Saniga, Metod et al., 2005f:81046**
Rötteler, Martin *see* **Klappenecker, Andreas, 2005f:81040**
Rudolph, Terry (*with* Spekkens, Robert W.) Quantum state targeting. (English summary) **2005g:81068**
— *see also* **Grover, Lov K., 2005c:81037**
Ruskai, Mary Beth *see* **Hayashi, Masahito et al., 2005k:81048** *and* **Publisher's note: "Conditions for multiplicativity of maximal l_p-norms of channels for fixed integer p"**
Sadovnichiĭ, Viktor Antonovich *see* **Belokurov, V. V. et al.**, (**2005g:94088**)
Salzman, Julia *see* **Nayak, Ashwin**, (**2005i:68004**)
Samoĭlenko, Anatoliĭ Mikhaĭlovich (*with* Prikarpat·s′kiĭ, Ya. A.; Taneri, Ufuk; Prikarpat·skiĭ, A. K.; Blackmore, D. L.) A geometrical approach to quantum holonomic computing algorithms. (English summary) **2005d:81099**
Sánchez-Soto, Luis L. *see* **Klimov, Andrei B. et al., 2005a:81045**
Sanctuary, B. C. Disentanglement as particles separate. (English summary) **2005h:81099**
Saniga, Metod (*with* Planat, Michel; Rosu, H. C.) Mutually unbiased bases and finite projective planes. (English summary) **2005f:81046**
Santha, Miklos *see* **Friedl, Katalin et al., 2005j:81037**; (**2005b:68020**) *and* **van Dam, Wim et al.**, (**2005i:68003**)
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Sasaki, Masahide Toward implementation of coding for quantum sources and channels. (English summary) **2005i:81031**
Schaetz, T. *see* **Chiaverini, J. et al., 2005k:81046**
Schlingemann, Dirk Cluster states, algorithms and graphs. (English summary) **2005i:81032**
Schuch, Norbert (*with* Verstraete, Frank; Cirac, Juan Ignacio) Quantum entanglement theory in the presence of superselection rules. (English summary) **2005j:81043**
Schulman, Leonard J. *see* **Grigni, Michelangelo et al., 2005b:81027**; (**2005j:68008**) *and* **Ambainis, Andris et al.**, (**2005i:68003**)
Sciarrino, F. (*with* Sias, C.; Ricci, Manuela; De Martini, F.) Quantum cloning and universal NOT gate by teleportation. (English summary) **2005a:81048**
Sen, Pranab *see* **Friedl, Katalin et al., 2005j:81037** *and* (**2005b:68020**)
Shende, Vivek V. (*with* Markov, Igor L.) Quantum circuits for incompletely specified two-qubit operators. (English summary) **2005m:81067**
Shimono, Toshiyuki *see* **Hayashi, Masahito et al., 2005k:81048**
Shirokov, Maksim Evgen′evich *see* **Kholevo, Aleksandr Semenovich, 2005j:81041**
Shor, Peter W. Progress in quantum algorithms. (English summary) **2005g:81069**
— *see also* **Hayden, Patrick et al., 2005h:81095**
Sias, C. *see* **Sciarrino, F. et al., 2005a:81048**
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Silbey, R. J. *see* **Cheng, Yuan-Chung, 2005d:81084**
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Sirsi, Swarnamala Spin squeezing, entanglement and correlations. (English summary) **2005g:81070**
Sładkowski, Jan *see* **Piotrowski, Edward W., 2005e:81045**
Slater, Paul B. Silver mean conjectures for 15-dimensional volumes and 14-dimensional hyperareas of the separable two-qubit systems. (English summary) **2005h:81100**
Sloan, Ian H. *see* **Novak, Erich et al., 2005h:81097**
Smelyanskiy, V. N. (*with* Knysh, S.; Morris, Robin D.) Quantum adiabatic optimization and combinatorial landscapes. (English summary) **2005k:81050**
— *see also* **Bulatov, A. E., 2005m:81059**
Sola, Ignacio R. *see* **Malinovsky, Vladimir S., 2005m:81065**
Solinas, Paolo (*with* Zanardi, Paolo; Zanghì, Nino) Robustness of non-Abelian holonomic quantum gates against parametric noise. (English summary)
Song, Guang (*with* Klappenecker, Andreas) Optimal realizations of simplified Toffoli gates. (English summary) **2005h:81101**
Song, Tong-Qiang Teleportation of any form and two-mode quantum states. (English summary) **2005g:81071**
Song, Wei[2] (*with* Yang, Ming[6]; Cao, Zhuo-Liang) Strategies for state-dependent quantum deleting. (English summary) **2005d:81100**
— (*with* Yang, Ming[6]; Cao, Zhuo-Liang) Probabilistic implementation of Hadamard and unitary gates. (English summary) **2005d:81101**
— (*with* Yang, Ming[6]; Cao, Zhuo-Liang) Scheme for the implementation of optimal phase-covariant quantum cloning for equatorial qubits. (English summary) **2005e:81046**
Spekkens, Robert W. *see* **Rudolph, Terry, 2005g:81068**
Spielman, Daniel A. *see* **Childs, Andrew M. et al., 2005k:81047**
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Tregenna, Ben *see* **Kendon, Viv**, (2005c:81005)
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Vazirani, Monica *see* **Grigni, Michelangelo et al.**, 2005b:81027 *and* (2005j:68008)
Vazirani, Umesh V. *see* **Grigni, Michelangelo et al.**, 2005b:81027; (2005j:68008); **Ambainis, Andris et al.**, (2005i:68003) *and* **Aharonov, Dorit et al.**, (2005i:68003)
Verstraete, Frank *see* **Briand, Emmanuel[2] et al.**, 2005g:81055 *and* **Schuch, Norbert et al.**, 2005j:81043
Viamontes, George F. (*with* Markov, Igor L.; Hayes, John P.) Improving gate-level simulation of quantum circuits. (English summary) **2005d:81103**
— (*with* Markov, Igor L.; Hayes, John P.) Graph-based simulation of quantum computation in the density matrix representation. (English summary)
Volovich, Igor V. *see* **Ohya, Masanori**, 2005f:81043
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Watrous, John Quantum algorithms for solvable groups. (English summary) (*see* 2005j:68008)
— *see also* **Bach, Eric et al.**, 2005h:81087
Wei, Lian Fu (*with* Nori, Franco) Quantum phase estimation algorithms with delays: effects of dynamical phases. (English summary) **2005a:81049**
Weichselbaum, A. (*with* Ulloa, S. E.) Charge qubits and limitations of electrostatic quantum gates. (English summary) **2005g:81072**
Weinstein, Yaakov S. (*with* Hellberg, C. Stephen) Quantum-cellular-automata pseudorandom maps. (English summary) **2005d:81104**
— (*with* Hellberg, C. Stephen) Pseudorandom operators of the circular ensembles. (English summary) **2005m:81072**
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— *see also* **Devetak, Igor et al.**, 2005h:81090; **Hayden, Patrick et al.**, 2005h:81095; **Cai, Ning et al.**, 2005m:81060 *and* **Imai, Hideki et al.**, 2005m:81062
Witthaut, Dirk (*with* Fleischhauer, Michael) Relation between discrete and continuous teleportation using linear elements. (English summary) **2005a:81050**
Wójcik, Antoni (*with* Grudka, Andrzej) Erasure versus teleportation scheme of optical CNOT gate. (English summary)
de Wolf, Ronald *see* **Høyer, Peter et al.**, (2005b:68008)
Woźniakowski, Henryk *see* **Heinrich, Stefan et al.**, 2005d:81087; **Kwas, Marek**, 2005d:81089 *and* **Novak, Erich et al.**, 2005h:81097
Yamakami, Tomoyuki Computational complexity measures of multipartite quantum entanglement (extended abstract). (English summary) (*see* 2005c:68004)
— Analysis of quantum functions. (English summary) **2005g:81073**
— *see also* **Nishimura, Harumichi**, 2005a:81046
Yamasaki, Tomohiro (*with* Kobayashi, Hirotada; Imai, Hiroshi) An analysis of absorbing times of quantum walks. (English summary) **2005c:81042**
Yamashita, Masafumi *see* **Kobayashi, Takenori et al.**, 2005c:81040
Yamashita, Shigeru *see* **Iwama, Kazuo et al.**, 2005c:81039 *and* **Ambainis, Andris et al.**, 2005f:81036
Yan, Feng-Li *see* **Gao, Ting et al.**, 2005g:81059
Yang, Chui-Ping (*with* Chu, Shih-I) Quantum state transfer and logic gates with two 3-level atoms in cavity QED. (English summary)
Yang, En-Hui *see* **Kaltchenko, Alexei**, 2005d:81088
Yang, Ming[6] *see* **Song, Wei[2] et al.**, 2005d:81100; 2005d:81101 *and* 2005e:81046
Yang, Qi-Zhong *see* **Yeo, Ye et al.**, 2005j:81044
Yao, Andrew Chi-Chih On the power of quantum fingerprinting. (English summary) **2005k:81051**
— Graph entropy and quantum sorting problems. (English summary) **2005k:81052**
— *see also* **Mayers, Dominic**, 2005g:81063 *and* **Aharonov, Dorit et al.**, (2005i:68003)
Yeo, Ye (*with* Liu, Tongqi; Lu, Yu-En; Yang, Qi-Zhong) Quantum teleportation via a two-qubit Heisenberg XY chain—effects of anisotropy and magnetic field. (English summary) **2005j:81044**
Yeung, Raymond W. *see* **Cai, Ning et al.**, 2005m:81060
Yung, Man-Hong (*with* Leung, Debbie W.; Bose, Sougato) An exact effective two-qubit gate in a chain of three spins. (English summary) **2005j:81045**
Zanardi, Paolo *see* **Zhu, Shi-Liang et al.**, 2005k:81053 *and* **Solinas, Paolo et al.**
Zanghì, Nino *see* **Solinas, Paolo et al.**
Zapatrin, Romàn R. *see* **Altman, Christopher et al.**, 2005k:81043a; 2005k:81043b *and* **D'Hooghe, Bart et al.**, 2005m:81061
Zhang, Jun[6] (*with* Whaley, K. Birgitta) Generation of quantum logic operations from physical Hamiltonians. (English summary) **2005m:81074**
Zhang, Yong[6] (*with* Zhou, Zheng Wei[2]; Guo, Guang-Can) Decoupling neighboring qubits in quantum computers through bang-bang pulse control. (English summary)
Zhang, Yong-Sheng *see* **Han, Yong-Jian et al.**, 2005j:81038
Zhao, Xuean *see* **Zhu, Guo-Qiang et al.**, 2005m:81075
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Zhong, Zai-Zhe Method of convex rigid frames and applications in studies of multipartite quNit pure states. (English summary) **2005j:81046**
Zhou, Zheng Wei[2] *see* **Zhang, Yong[6] et al.**
Zhu, Guo-Qiang (*with* Zhao, Xuean; Li, You Quan[1]) Entanglement of two-qutrit system. (English summary) **2005m:81075**
Zhu, Shi-Liang (*with* Wang, Zi Dan; Zanardi, Paolo) Geometric quantum computation and multiqubit entanglement with superconducting qubits inside a cavity. (English summary) **2005k:81053**
Zubairy, M. Suhail *see* **Chen, Goong et al.**, 2005a:81039 *and* **Aharonov, Yakir**, 2005j:81032
Zuckerman, David *see* **Kłauck, Hartmut et al.**, (2005j:68008)
Zwick, Martin *see* **Al-Rabadi, Anas N.**, 2005a:81038
Zwickl, Benjamin *see* **Do, Binh et al.**

Items listed otherwise than by author

Fundamentals of quantum information ★ Fundamentals of quantum information. **2005d:81105**
Lecture Notes in Physics ★ Fundamentals of quantum information. **2005d:81105**
Publisher's note: "Conditions for multiplicativity of maximal l_p-norms of channels for fixed integer p" Publisher's note: "Conditions for multiplicativity of maximal l_p-norms of channels for fixed integer p" [J. Math. Phys. **46** (2005), no. 4, 042105, 23 pp.; MR2131221] by V. Giovannetti, S. Lloyd and M. B. Ruskai.
Quantum information with continuous variables ★ Quantum information with continuous variables. **2005d:81106**
Stellenbosch ★ Fundamentals of quantum information. **2005d:81105**

Items with secondary classifications in 81P68

Aaronson, Scott Quantum lower bound for the collision problem. (English summary) (*see* 2005i:68004)
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— Lower bounds for local search by quantum arguments. (English summary) **2005i:68019**
Abal, G. *see* **Romanelli, A. et al.**, 2005k:82033
Ablaev, Farid M. (*with* Gainutdinova, Aida) Classical simulation complexity of quantum machines. (English summary) **2005b:68086**
Acín, Antonio (*with* Gisin, Nicolas; Scarani, Valerio) Security bounds in quantum cryptography using d-level systems. (English summary) **2005a:94049**
— (*with* Gisin, Nicolas) Quantum correlations and secret bits. (English summary) **2005k:94017**
— *see also* **Thew, R. T. et al.**, 2005h:81074
Aharonov, Dorit (*with* Ambainis, Andris; Kempe, Julia; Vazirani, Umesh V.) Quantum walks on graphs. (English summary) (*see* 2005j:68008)
Ahlswede, Rudolf F. (*with* Blinovskiĭ, V. M.) Large deviations in quantum information theory. (Russian. Russian summary) **2005g:94028**
— (*with* Cai, Ning) On lossless quantum data compression with a classical helper. (English summary) **2005h:94028**
Ali, M. K. *see* **Andrecut, M.**, 2005d:81030; 2005e:81047 *and* 2005g:81126
Ambainis, Andris Quantum lower bounds by quantum arguments. (*see* 2005i:68003)
— (*with* Bach, Eric; Nayak, Ashwin; Vishwanath, Ashvin; Watrous, John) One-dimensional quantum walks. (English summary) (*see* 2005j:68008)
— A new protocol and lower bounds for quantum coin flipping. (English summary) (*see* 2005j:68008)
— (*with* Ķikusts, Arnolds) Exact results for accepting probabilities of quantum automata. (English summary) **2005b:68087**
— (*with* Jakobsson, Markus; Lipmaa, Helger) Cryptographic randomized response techniques. (English summary) **2005f:94077**
— (*with* Beaudry, Martin; Golovkins, Marats; Ķikusts, Arnolds; Mercer, Mark; Thérien, Denis) Algebraic results on quantum automata. (English summary) **2005e:68166**
— A new protocol and lower bounds for quantum coin flipping. (English summary) **2005f:68026**
— (*with* Shi, Yaoyun) Distributed construction of quantum fingerprints. (English summary) **2005c:94062**
— *see also* **Aharonov, Dorit et al.**, (2005j:68008)
An, Jun-Hong (*with* Wang, Shun Jin; Luo, Hong-Gang) Entanglement production and decoherence-free subspace of two single-mode cavities embedded in a common environment. (English summary) **2005k:81382**
Andrecut, M. (*with* Ali, M. K.) Maximum speed of quantum evolution. (English summary) **2005g:81126**
— (*with* Ali, M. K.) The adiabatic analogue of the Margolus-Levitin theorem. (English summary) **2005e:81047**
— (*with* Ali, M. K.) Entanglement dynamics in quantum cellular automata. (English summary) **2005d:81030**
Angelsmark, Ola (*with* Dahllöf, Vilhelm; Jonsson, Peter) Finite domain constraint satisfaction using quantum computation. (English summary) (*see* 2005b:68019)
Arakawa, Gaku (*with* Ichinose, Ikuo) Z_N gauge theories on a lattice and quantum memory. (English summary) **2005b:81122**
Ardonne, Eddy (*with* Fendley, Paul; Fradkin, Eduardo) Topological order and conformal quantum critical points. (English summary) **2005b:81124**
Arrighi, Pablo (*with* Patricot, Christophe) On quantum operations as quantum states. (English summary) **2005a:81014**
Arvind, V. (*with* Schuler, Rainer) The quantum query complexity of 0-1 knapsack and associated claw problems. (English summary) **2005e:68058**
Auyuanet, A. *see* **Romanelli, A. et al.**, 2005k:82033
Bach, Eric *see* **Ambainis, Andris et al.**, (2005j:68008)
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— (*with* Kitajima, Sachiko; Shibata, Fumiaki) The classical capacity of a quantum dense coding system. (English summary) **2005d:94062**
— Symmetric and asymmetric quantum channels in quantum communication systems. (English summary) **2005m:94019**
Barhen, Jacob *see* **Protopopescu, Vladimir A.**, 2005m:90089
Barnum, Howard (*with* Saks, Michael) A lower bound on the quantum query complexity of read-once functions. (English summary) **2005e:68059**
Bartlett, Stephen D. (*with* Terno, Daniel R.) Relativistically invariant quantum information. (English summary) **2005m:81016**
Bar-Yossef, Ziv (*with* Jayram, T. S.; Kerenidis, Iordanis) Exponential separation of quantum and classical one-way communication complexity. (English summary) **2005j:68033**

Batuwantudawe, J. *see* **Boileau, J.-C. et al., 2005m:94031**
Beals, Robert (*with* Buhrman, Harry; Cleve, Richard; Mosca, Michele; de Wolf, Ronald) Quantum lower bounds by polynomials. (English summary) **2005m:68083**
Beaudry, Martin (*with* Fernandez, José M.; Holzer, Markus) A common algebraic description for probabilistic and quantum computations (extended abstract). (English summary) (*see* **2005m:68011**)
— *see also* **Ambainis, Andris et al., 2005e:68166**
Beige, Almut *see* **Lim, Yuan Liang**
Benenti, Giuliano *see* **Rossini, Davide et al., 2005a:81032**
Bertoni, Alberto (*with* Mereghetti, Carlo; Palano, Beatrice) Lower bounds on the size of quantum automata accepting unary languages. (English summary) **2005b:68088**
— (*with* Mereghetti, Carlo; Palano, Beatrice) Golomb rulers and difference sets for succinct quantum automata. (English summary) **2005b:68166**
Beth, Thomas (*with* Müller-Quade, Jörn; Steinwandt, Rainer) Cryptanalysis of a practical quantum key distribution with polarization-entangled photons. (English summary) **2005m:94024**
— *see also* **Charnes, Chris, 2005m:05031**
Biham, Eli (*with* Boyer, Michel; Boykin, P. Oscar; Mor, Tal; Roychowdhury, Vwani) A proof of the security of quantum key distribution (extended abstract). (*see* **2005i:68003**)
Biham, Ofer *see* **Shimoni, Yishai et al., 2005d:81072**
Blinovskiĭ, V. M. *see* **Ahlswede, Rudolf F., 2005g:94028**
Boileau, J.-C. (*with* Tamaki, Kiyoshi; Batuwantudawe, J.; Laflamme, Raymond; Renes, Joseph M.) Unconditional security of a three state quantum key distribution protocol. (English summary) **2005m:94031**
Borhani, Massoud (*with* Loss, Daniel) Cluster states from Heisenberg interactions. (English summary) **2005m:81019**
Boyer, Michel *see* **Biham, Eli et al., (2005i:68003)**
Boykin, P. Oscar *see* **Biham, Eli et al., (2005i:68003)**
Briegel, Hans J. *see* **Hein, Marc et al., 2005g:81032**
Brun, Todd A. Measuring polynomial functions of states. (English summary) **2005k:81022**
Buhrman, Harry (*with* Röhrig, Hein) Distributed quantum computing. (English summary) (*see* **2005b:68020**)
— *see also* **Beals, Robert et al., 2005m:68083**
Cabello, Adán Bell's theorem without inequalities and without alignments. (English summary) **2005a:81016**
Cai, Ning *see* **Ahlswede, Rudolf F., 2005h:94028**
Can, M. Ali (*with* Klyachko, Aleksandr Anatol'evich; Shumovskiĭ, A. S.) Single-particle entanglement. (English summary) **2005j:81013**
Cao, Hongen (*with* Ying, Mingsheng) Local discrimination of maximally entangled states in canonical form. (English summary) **2005h:81052**
Carteret, Hilary A. Noiseless quantum circuits for the Peres separability criterion. (English summary) **2005k:81023**
Casati, Giulio *see* **Rossini, Davide et al., 2005a:81032**
Caulfield, H. John (*with* Westphal, Jonathan) The logic of optics and the optics of logic. (English summary) **2005a:03055**
Charnes, Chris (*with* Beth, Thomas) Combinatorial aspects of jump codes. (English summary) **2005m:05031**
Chuu, Der-San *see* **Hsieh, Jin-Yuan et al., 2005c:81026**
Cirac, Juan Ignacio Quantum information: entanglement, purification, error correction, and quantum optical implementations. (*see* **2005d:81105**)
Cleve, Richard The query complexity of order-finding. (English summary) **2005b:68126**
— *see also* **Beals, Robert et al., 2005m:68083**
Concha, Julio I. (*with* Poor, H. Vincent) Multiaccess quantum channels. (English summary) **2005e:94086**
Cramer, Marcus *see* **Plenio, M. B. et al., 2005m:82012**
Crépeau, Claude (*with* Gottesman, Daniel; Smith, Adam^2) Secure multi-party quantum computation. (English summary) (*see* **2005i:68004**)
Curran, W. S. Mathematical proof. (English summary)
Dahllöf, Vilhelm *see* **Angelsmark, Ola et al., (2005b:68019)**
van Dam, H. *see* **Ng, Y. Jack, 2005j:83040**
De Rinaldis, S. Distinguishability of complete and unextendible product bases. (English summary) **2005c:81022**
Devetak, Igor (*with* Winter, Andreas) Distilling common randomness from bipartite quantum states. (English summary)
Diţă, Petre Some results on the parametrization of complex Hadamard matrices. (English summary) **2005b:15045**
Donangelo, Raul *see* **Romanelli, A. et al., 2005k:82033**
Dreißig, J. *see* **Plenio, M. B. et al., 2005m:82012**
Eisert, J. *see* **Hein, Marc et al., 2005g:81032** *and* **Plenio, M. B. et al., 2005m:82012**
Fedichkin, Leonid (*with* Fedorov, Arkady; Privman, Vladimir) Additivity of decoherence measures for multiqubit quantum systems. (English summary) **2005e:81025**
Fedorov, Arkady *see* **Fedichkin, Leonid et al., 2005e:81025**
Fei, Shao Ming *see* **Wang, Xiaohong^2 et al., 2005h:81079**
Fendley, Paul *see* **Ardonne, Eddy et al., 2005b:81124**
Feng, Ke Qin (*with* Ma, Zhi) A finite Gilbert-Varshamov bound for pure stabilizer quantum codes. (English summary) **2005g:94117**
Fernandez, José M. *see* **Beaudry, Martin et al., (2005m:68011)**
Ferrante, Augusto *see* **Ticozzi, Francesco et al., 2005g:93039**
Fradkin, Eduardo *see* **Ardonne, Eddy et al., 2005b:81124**
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Fujiwara, Akio Statistical estimation of a quantum operation. (English summary) **2005k:81028**
Furuichi, Shigeru *see* **Yanagi, Kenjiro et al., 2005i:15033**
Gainutdinova, Aida *see* **Ablaev, Farid M., 2005b:68086**
Galindo Tixaire, Alberto Between zero and one: the art of computing. (Spanish) **2005f:68002**
Ge, Xian-Hui (*with* Shen, You-Gen) Teleportation in the background of Schwarzschild space-time. (English summary) **2005h:83106**
Gerhardt, Heath (*with* Watrous, John) Continuous-time quantum walks on the symmetric group. (English summary) **2005f:82042**
Gisin, Nicolas *see* **Acín, Antonio et al., 2005a:94049**; **2005k:94017** *and* **Thew, R. T. et al., 2005h:81074**
Golovkins, Marats (*with* Kravtsev, Maksim) Probabilistic reversible automata and quantum automata. (English summary) (*see* **2005a:68012**)
— *see also* **Ambainis, Andris et al., 2005e:68166**
Gortler, Steven J. *see* **Servedio, Rocco A., 2005g:68061**
Gottesman, Daniel (*with* Lo, Hoi-Kwong) Proof of security of quantum key distribution with two-way classical communications. (English summary) **2005a:94078**
— Uncloneable encryption. (English summary) **2005a:94056**
— (*with* Lo, Hoi-Kwong; Lütkenhaus, Norbert; Preskill, John) Security of quantum key distribution with imperfect devices. (English summary) **2005e:94147**
— *see also* **Crépeau, Claude et al., (2005i:68004)**
Grassl, Markus Algorithmic aspects of quantum error-correcting codes. (English summary) **2005g:94131**
Groisman, Berry (*with* Reznik, Benni) Implementing nonlocal gates with nonmaximally entangled states. (English summary) **2005m:81030**
Grover, Lov K. Rapid sampling through quantum computing. (*see* **2005i:68003**)
Guo, Xiu Hong Some properties of quantum languages. (Chinese. English and Chinese summaries)
Gurvits, Leonid Classical deterministic complexity of Edmond's problem and quantum entanglement. (English summary) **2005k:68092**
Hallgren, Sean (*with* Russell, Alexander; Ta-Shma, Amnon) Normal subgroup reconstruction and quantum computation using group representations. (*see* **2005i:68003**)
Hamada, Mitsuru Reliability of Calderbank-Shor-Steane codes and security of quantum key distribution. (English summary) **2005d:94111**
Hamma, Alioscia (*with* Ionicioiu, Radu; Zanardi, Paolo) Ground state entanglement and geometric entropy in the Kitaev model. (English summary) **2005j:81018**
Hayashi, Daisuke *see* **Tanimura, Shogo et al., 2005j:49033**
Hayashi, Michitoshi *see* **Mishima, K. et al., 2005h:81066**
Hein, Marc (*with* Eisert, J.; Briegel, Hans J.) Multiparty entanglement in graph states. (English summary) **2005g:81032**
Hofmann, Holger F. Complementary classical fidelities as an efficient criterion for the evaluation of experimentally realized quantum operations. (English summary) **2005m:81036**
Hogg, Tad *see* **Huberman, Bernardo A.**
Holbrook, John A. (*with* Kribs, David W.; Laflamme, Raymond) Noiseless subsystems and the structure of the commutant in quantum error correction. (English summary) **2005f:94169**
Holzer, Markus *see* **Beaudry, Martin et al., (2005m:68011)**
Horodecki, Paweł Direct estimation of elements of quantum states algebra and entanglement detection via linear contractions. (English summary) **2005a:81025**
Høyer, Peter (*with* Neerbek, Jan; Shi, Yaoyun) Quantum complexities of ordered searching, sorting, and element distinctness. (English summary) (*see* **2005a:68007**)
— (*with* Špalek, Robert) Quantum circuits with unbounded fan-out. (English summary) **2005b:68091**
Hsieh, Jin-Yuan (*with* Li, Che-Ming; Chuu, Der-San) A simplification of entanglement purification. (English summary) **2005c:81026**
Hu, Xiao-fei (*with* Ye, Pei Xin) Quantum complexity of the integration problem for anisotropic classes. (English summary) **2005m:65039**
Huberman, Bernardo A. (*with* Hogg, Tad) Quantum solution of coordination problems. (English summary)
Ichinose, Ikuo *see* **Arakawa, Gaku, 2005b:81122**
Imai, Hideki *see* **Nascimento, Anderson C. A. et al., 2005e:94188** *and* **Winter, Andreas et al., 2005e:94217**
Imai, Hiroshi *see* **Yamasaki, Tomohiro et al., (2005a:68012)**
Ionicioiu, Radu *see* **Hamma, Alioscia et al., 2005j:81018**
Jackson, Jeffrey C. (*with* Tamon, Christino; Yamakami, Tomoyuki) Quantum DNF learnability revisited. (English summary) (*see* **2005a:68012**)
Jacobs, B. C. *see* **Pittman, T. B. et al., 2005a:81030**
Jakobsson, Markus *see* **Ambainis, Andris et al., 2005f:94077**
Jayram, T. S. *see* **Bar-Yossef, Ziv et al., 2005j:68033**
Jones, Nick S. (*with* Linden, Noah) Parts of quantum states. (English summary) **2005m:81040**
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Kacewicz, Bolesław Randomized and quantum algorithms yield a speed-up for initial-value problems. (English summary) **2005g:68190**
Karwowski, Witold (*with* Vilela Mendes, Rui) Quantum control in infinite dimensions. (English summary) **2005a:81084**
Kempe, Julia (*with* Regev, Oded) 3-local Hamiltonian is QMA-complete. (English summary) **2005b:68106**
— *see also* **Aharonov, Dorit et al., (2005j:68008)**
Kerenidis, Iordanis (*with* de Wolf, Ronald) Exponential lower bound for 2-query locally decodable codes via a quantum argument. (English summary) **2005k:94037**
— (*with* de Wolf, Ronald) Exponential lower bound for 2-query locally decodable codes via a quantum argument. (English summary) **2005e:68042**
— *see also* **Bar-Yossef, Ziv et al., 2005j:68033**
Kholevo, Aleksandr Semenovich (*with* Shirokov, Maksim Evgen'evich) The additivity problem for constrained quantum channels. (Russian) **2005g:94059**
Kieu, Tien D. Quantum algorithm for Hilbert's tenth problem. (English summary) **2005e:68046**
— A reformulation of Hilbert's tenth problem through quantum mechanics. (English summary) **2005m:11233**
— Hypercomputation with quantum adiabatic processes. (English summary) **2005d:68036**
Ķikusts, Arnolds *see* **Ambainis, Andris et al., 2005b:68087** *and* **2005e:68166**
Kim, Jaewan^2 *see* **Yi, Hyo Seok et al., 2005m:81158**
King, Christopher (*with* Ruskai, Mary Beth) Comments on multiplicativity of maximal p-norms when $p = 2$. (English summary) **2005k:81119**
Kitaev, Alexei (*with* Watrous, John) Parallelization, amplification, and exponential time simulation of quantum interactive proof systems. (*see* **2005i:68003**)
Kitajima, Sachiko *see* **Ban, Masashi et al., 2005d:94062**

Klappenecker, Andreas (*with* Rötteler, Martin) Unitary error bases: constructions, equivalence, and applications. (English summary) **2005c:94088**
— (*with* Rötteler, Martin) On the structure of nonstabilizer Clifford codes. (English summary) **2005h:94086**
Klauck, Hartmut On quantum and probabilistic communication: Las Vegas and one-way protocols. (*see* **2005i:68003**)
— Quantum time-space tradeoffs for sorting. (English summary) **2005k:68046**
— Quantum and classical communication-space tradeoffs from rectangle bounds (extended abstract). (English summary) (*see* **2005m:68007**)
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Klyachko, Aleksandr Anatol'evich *see* **Can, M. Ali et al., 2005j:81013**
Kobayashi, Hirotada (*with* Matsumoto, Keiji[2]) Quantum multi-prover interactive proof systems with limited prior entanglement. (English summary) (*see* **2005b:68004**)
— Non-interactive quantum perfect and statistical zero-knowledge. (English summary) **2005d:94176**
— (*with* Matsumoto, Keiji[2]; Yamakami, Tomoyuki) Quantum Merlin-Arthur proof systems: are multiple Merlins more helpful to Arthur? (English summary) **2005d:68047**
— *see also* **Yamasaki, Tomohiro et al., (2005a:68012)**
Kok, Pieter (*with* Ralph, T. C.; Milburn, G. J.) Communicating continuous quantum variables between different Lorentz frames. (English summary)
Korepin, Vladimir (*with* Terilla, John) Thermodynamic interpretation of the quantum error correcting criterion. (English summary) **2005a:94039**
Kosiński, Piotr (*with* Maślanka, Paweł) Depurification by Lorentz boosts. (English summary) **2005d:81225**
Kravtsev, Maksim *see* **Golovkins, Marats, (2005a:68012)**
Kreinovich, Vladik (*with* Longpré, Luc) Fast quantum algorithms for handling probabilistic and interval uncertainty. (English summary) **2005f:68034**
Kribs, David W. A quantum computing primer for operator theorists. (English summary) **2005k:47170**
— *see also* **Holbrook, John A. et al., 2005f:94169**
Krishnamurthy, E. V. Problems and prospects for quantum computational speed-up. (English summary) (*see* **2005g:65007**)
Kuang, Le-Man *see* **Lu, Jing[3] et al.**
Kuriyama, Ken *see* **Yanagi, Kenjiro et al., 2005i:15033**
Laflamme, Raymond *see* **Holbrook, John A. et al., 2005f:94169** *and* **Boileau, J.-C. et al., 2005m:94031**
Latorre, José I. *see* **Orús, Román, 2005d:81068**
Leggett, A. J. Qubits, cbits, decoherence, quantum measurement and environment. (English summary) (*see* **2005d:81105**)
Li, Che-Ming *see* **Hsieh, Jin-Yuan et al., 2005c:81026**
Li, Ruihu (*with* Li, Xue-liang) Binary construction of quantum codes of minimum distance three and four. (English summary) **2005e:94289**
Li, Xue-liang *see* **Li, Ruihu, 2005e:94289**
Li, Yun[4] *see* **Zhou, Jie et al., 2005k:91023**
Lidar, Daniel A. On the quantum computational complexity of the Ising spin glass partition function and of knot invariants. (English summary) **2005i:82022**
Lim, Yuan Liang (*with* Beige, Almut) Photon polarization entanglement from distant dipole sources. (English summary)
Lin, Sheng Hsien *see* **Mishima, K. et al., 2005h:81066**
Lin, Xiaoyan[2] Quantum cyclic and constacyclic codes. (English summary) **2005a:94104**
Linden, Noah *see* **Jones, Nick S., 2005m:81040**
Lipmaa, Helger *see* **Ambainis, Andris et al., 2005f:94077**
Liu, Maili *see* **Wei, Daxiu et al., 2005e:94293**
Livi, Roberto (*with* Ruffo, Stefano; Shepelyanskiĭ, D. L.) Kolmogorov pathways from integrability to chaos and beyond. (English summary) **2005b:37132**
Lo, Hoi-Kwong *see* **Gottesman, Daniel et al., 2005a:94078** *and* **2005e:94147**
Longpré, Luc *see* **Kreinovich, Vladik, 2005f:68034**
Loss, Daniel *see* **Borhani, Massoud, 2005m:81019**
Lu, Jing[3] (*with* Zhou, Lan[2]; Kuang, Le-Man) Linear optics implementation for quantum game with two players. (English summary)
Ludwig, Christoph A faster lattice reduction method using quantum search. (English summary) **2005d:68063**
Luo, Hong-Gang *see* **An, Jun-Hong et al., 2005k:81382**
Luo, Jun[3] *see* **Wei, Daxiu et al., 2005e:94293**
Lütkenhaus, Norbert *see* **Gottesman, Daniel et al., 2005e:94147**
Ma, Lei[1] *see* **Zhou, Jie et al., 2005k:91023**
Ma, Xiao San (*with* Wang, An Min; Yang, Xiao Dong[1]; You, Hao) Entanglement dynamics and decoherence of three-qubit system in a fermionic environment. (English summary) **2005k:81037**
Ma, Zhi *see* **Feng, Ke Qin, 2005g:94117**
Maślanka, Paweł *see* **Kosiński, Piotr, 2005d:81225**
Massad, Eduardo *see* **Rocha, Armando Freitas et al., 2005h:92007**
Matsumoto, Keiji[2] *see* **Kobayashi, Hirotada et al., 2005d:68047** *and* **(2005b:68004)**
Mercer, Mark *see* **Ambainis, Andris et al., 2005e:68166**
Mereghetti, Carlo *see* **Bertoni, Alberto et al., 2005b:68088** *and* **2005b:68166**
Mihara, Takashi (*with* Sung, Shao Chin) Deterministic polynomial-time quantum algorithms for Simon's problem. (English summary) **2005e:68069**
Milburn, G. J. *see* **Kok, Pieter et al.**
Mishima, K. (*with* Hayashi, Michitoshi; Lin, Sheng Hsien) Entanglement in scattering processes. (English summary) **2005h:81066**
Moore, Cristopher (*with* Russell, Alexander) Quantum walks on the hypercube. (English summary) **2005a:81114**
Mor, Tal *see* **Biham, Eli et al., (2005i:68003)**
Mosca, Michele *see* **Beals, Robert et al., 2005m:68083**
Müller-Quade, Jörn *see* **Nascimento, Anderson C. A. et al., 2005e:94188** *and* **Beth, Thomas et al., 2005m:94024**
Nakahara, Mikio *see* **Tanimura, Shogo et al., 2005j:49033**
Nascimento, Anderson C. A. (*with* Müller-Quade, Jörn; Imai, Hideki) Bit string commitment reductions with a non-zero rate. (English summary) **2005e:94188**
— *see also* **Winter, Andreas et al., 2005e:94217**
Nayak, Ashwin *see* **Ambainis, Andris et al., (2005j:68008)**
Neerbek, Jan *see* **Høyer, Peter et al., (2005a:68007)**
Ng, Y. Jack (*with* van Dam, H.) Spacetime foam, holographic principle, and black hole quantum computers. (English summary) **2005j:83040**
Nguyen Ba An *see* **Yi, Hyo Seok et al., 2005m:81158**
Nishimura, Harumichi (*with* Yamakami, Tomoyuki) An algorithmic argument for nonadaptive query complexity lower bounds on advised quantum computation (extended abstract). (English summary) (*see* **2005m:68011**)
— (*with* Yamakami, Tomoyuki) An application of quantum finite automata to interactive proof systems (extended abstract). (English summary) (*see* **2005m:68009**)
— (*with* Ozawa, Masanao) Uniformity of quantum circuit families for error-free algorithms. (English summary) **2005i:68021**
Orús, Román (*with* Latorre, José I.) Universality of entanglement and quantum-computation complexity. (English summary) **2005d:81068**
Ozawa, Masanao *see* **Nishimura, Harumichi, 2005i:68021**
Palano, Beatrice *see* **Bertoni, Alberto et al., 2005b:68088** *and* **2005b:68166**
Parker, Matthew G. Spectrally bounded sequences, codes, and states: graph constructions and entanglement. (English summary) (*see* **2005b:94001**)
Parthasarathy, Kalyanapuram Rangachari On estimating the state of a finite level quantum system. (English summary) **2005k:81038**
Patricot, Christophe *see* **Arrighi, Pablo, 2005a:81014**
Pavon, Michele *see* **Ticozzi, Francesco et al., 2005g:93039**
Pereira, Alfredo, Jr. *see* **Rocha, Armando Freitas et al., 2005h:92007**
Peres, Asher Quantum information and general relativity. (English summary) **2005h:83123**
Pitowsky, Itamar Macroscopic objects in quantum mechanics: a combinatorial approach. (English summary) **2005d:81069**
Pittman, T. B. (*with* Jacobs, B. C.; Franson, J. D.) Probabilistic quantum encoder for single-photon qubits. (English summary) **2005a:81030**
Plenio, M. B. (*with* Eisert, J.; Dreißig, J.; Cramer, Marcus) Entropy, entanglement, and area: analytical results for harmonic lattice systems. (English summary) **2005m:82012**
Pollatsek, Harriet (*with* Ruskai, Mary Beth) Permutationally invariant codes for quantum error correction. (English summary) **2005g:94133**
Poor, H. Vincent *see* **Concha, Julio I., 2005e:94086**
Prauzner-Bechcicki, Jakub S. Two-mode squeezed vacuum state coupled to the common thermal reservoir. (English summary) **2005c:81032**
Preskill, John *see* **Gottesman, Daniel et al., 2005e:94147**
Privman, Vladimir *see* **Fedichkin, Leonid et al., 2005e:81025**
Protopopescu, Vladimir A. (*with* Barhen, Jacob) Quantum algorithm for continuous global optimization. (English summary) **2005m:90089**
Qiu, Daowen Automata theory based on quantum logic: some characterizations. (English summary) **2005k:03143**
— (*with* Ying, Mingsheng) Characterizations of quantum automata. (English summary) **2005d:68038**
— (*with* Wang, Huaiqing) A probabilistic model of computing with words. (English summary) **2005k:68050**
Ralph, T. C. *see* **Kok, Pieter et al.**
Raz, Ran Quantum computation.
Razborov, A. A. On the quantum communication complexity of symmetric predicates. (Russian. Russian summary) **2005e:68051**
Regev, Oded New lattice based cryptographic constructions. (English summary) **2005k:94025**
— *see also* **Kempe, Julia, 2005b:68106**
Renes, Joseph M. *see* **Boileau, J.-C. et al., 2005m:94031**
Renner, Renato (*with* Wolf, Stefan) Unconditional authenticity and privacy from an arbitrarily weak secret. (English summary) **2005e:94201**
— (*with* Wolf, Stefan) New bounds in secret-key agreement: the gap between formation and secrecy extraction. (English summary) **2005d:94186**
Reznik, Benni *see* **Groisman, Berry, 2005m:81030**
Rocha, Armando Freitas (*with* Massad, Eduardo; Pereira, Alfredo, Jr.) ★ The brain: fuzzy arithmetic to quantum computing. **2005h:92007**
Röhrig, Hein *see* **Buhrman, Harry, (2005b:68020)**
Romanelli, A. (*with* Siri, R.; Abal, G.; Auyuanet, A.; Donangelo, Raul) Decoherence in the quantum walk on the line. (English summary) **2005k:82033**
Rossini, Davide (*with* Benenti, Giuliano; Casati, Giulio) Entanglement echoes in quantum computation. (English summary) **2005a:81032**
Rötteler, Martin *see* **Klappenecker, Andreas, 2005c:94088** *and* **2005h:94086**
Roychowdhury, Vwani *see* **Biham, Eli et al., (2005i:68003)**
Rudich, Steven Complexity theory: from Gödel to Feynman.
Ruffo, Stefano *see* **Livi, Roberto et al., 2005b:37132**
Ruskai, Mary Beth *see* **Pollatsek, Harriet, 2005g:94133** *and* **King, Christopher, 2005k:81119**
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Saks, Michael *see* **Barnum, Howard, 2005e:68059**
Sala Mayato, R. *see* **Sokolovski, Dmitri, 2005m:81049**
Santha, Miklos (*with* Szegedy, Mario) Quantum and classical query complexities of local search are polynomially related. (English summary) **2005j:68031**
Sauerhoff, Martin (*with* Sieling, Detlef) Quantum branching programs and space-bounded nonuniform quantum complexity. (English summary) **2005k:68051**
Scarani, Valerio *see* **Acín, Antonio et al., 2005a:94049**
Schuler, Rainer *see* **Arvind, V., 2005e:68058**
Selesnick, S. A. ★ Quanta, logic and spacetime. **2005g:81016**
Selinger, Peter Towards a quantum programming language. (English summary) **2005e:68020**
Sen, Pranab (*with* Venkatesh, Srinivasan) Lower bounds in the quantum cell probe model. (English summary) (*see* **2005a:68007**)
Servedio, Rocco A. Separating quantum and classical learning. (English summary) (*see* **2005a:68007**)
— (*with* Gortler, Steven J.) Equivalences and separations between quantum and classical learnability. (English summary) **2005g:68061**
Shapira, Daniel *see* **Shimoni, Yishai et al., 2005d:81072**

Shen, You-Gen *see* **Ge, Xian-Hui**, 2005h:83106
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Shi, Yaoyun *see* **Ambainis, Andris**, 2005c:94062 *and* **Høyer, Peter et al.**, (2005a:68007)
Shi, Yu Quantum entanglement in second-quantized condensed matter systems. (English summary) **2005g:81043**
Shibata, Fumiaki *see* **Ban, Masashi et al.**, 2005d:94062
Shimoni, Yishai (*with* Shapira, Daniel; Biham, Ofer) Characterization of pure quantum states of multiple qubits using the Groverian entanglement measure. (English summary) **2005d:81072**
Shimono, Toshiyuki Towards additivity of entanglement of formation. (English summary) **2005a:81034**
Shirokov, Maksim Evgen'evich *see* **Kholevo, Aleksandr Semenovich**, 2005g:94059
Shor, Peter W. Why haven't more quantum algorithms been found? (English summary)
Shumovskiĭ, A. S. *see* **Can, M. Ali et al.**, 2005j:81013
Sidel'nikov, V. M. Quantum codes and abelian subgroups of the extra-special group. (Russian. Russian summary) **2005g:94134**
Sieling, Detlef *see* **Sauerhoff, Martin**, 2005k:68051
Siri, R. *see* **Romanelli, A. et al.**, 2005k:82033
Smith, Adam[2] *see* **Crépeau, Claude et al.**, (2005i:68004)
Sokolovski, Dmitri (*with* Sala Mayato, R.) Path summation and von Neumann-like quantum measurements. (English summary) **2005m:81049**
Sommers, Hans-Jürgen *see* **Życzkowski, Karol**, 2005m:81054
Song, Tong-Qiang Teleportation of two-mode quantum state of continuous variables. (English summary)
Spakowski, Holger (*with* Thakur, Mayur; Tripathi, Rahul) Quantum and classical complexity classes: separations, collapses, and closure properties. (English summary) **2005e:68071**
Špalek, Robert *see* **Høyer, Peter**, 2005b:68091
Stay, Michael Inexpensive linear-optical implementations of Deutsch's algorithm. (English summary)
Steinwandt, Rainer *see* **Beth, Thomas et al.**, 2005m:94024
Sun, Xianping *see* **Wei, Daxiu et al.**, 2005e:94293
Sung, Shao Chin *see* **Mihara, Takashi**, 2005e:68069
Svozil, Karl Quantum information via state partitions and the context translation principle. (English summary) **2005d:81075**
— Eutactic quantum codes. (English summary) **2005b:94048**
Szegedy, Mario *see* **Santha, Miklos**, 2005j:68031
Tamaki, Kiyoshi *see* **Boileau, J.-C. et al.**, 2005m:94031
Tamon, Christino *see* **Jackson, Jeffrey C. et al.**, (2005a:68012)
Tanimura, Shogo (*with* Nakahara, Mikio; Hayashi, Daisuke) Exact solutions of the isoholonomic problem and the optimal control problem in holonomic quantum computation. (English summary) **2005j:49033**
Tarasov, V. E. Path integral for quantum operations. (English summary) **2005b:81089**
Ta-Shma, Amnon *see* **Hallgren, Sean et al.**, (2005i:68003)
Terilla, John *see* **Korepin, Vladimir**, 2005a:94039
Terno, Daniel R. *see* **Bartlett, Stephen D.**, 2005m:81016
Thakur, Mayur *see* **Spakowski, Holger et al.**, 2005e:68071
Thérien, Denis *see* **Ambainis, Andris et al.**, 2005e:68166
Thew, R. T. (*with* Acin, Antonio; Zbinden, H.; Gisin, Nicolas) Bell-type test of energy-time entangled qutrits. (English summary) **2005h:81074**
Ticozzi, Francesco (*with* Ferrante, Augusto; Pavon, Michele) Robust steering of n-level quantum systems. (English summary) **2005g:93039**
van Tonder, André A lambda calculus for quantum computation. (English summary) **2005e:68028**
Tripathi, Rahul *see* **Spakowski, Holger et al.**, 2005e:68071
Uhlmann, Armin Concurrence and foliations induced by some 1-qubit channels. (English summary) **2005h:81075**
Valiant, Leslie G. Quantum computers that can be simulated classically in polynomial time. (English summary) (*see* **2005j:68008**)
Vazirani, Umesh V. *see* **Aharonov, Dorit et al.**, (2005j:68008)
Venkatesh, Srinivasan *see* **Sen, Pranab**, (2005a:68007)
Vilela Mendes, Rui *see* **Karwowski, Witold**, 2005a:81084
Vishwanath, Ashvin *see* **Ambainis, Andris et al.**, (2005j:68008)
Wang, An Min Eigenvalues, Peres' separability condition, and entanglement. (English summary) **2005g:81049**
— *see also* **Ma, Xiao San et al.**, 2005k:81037
Wang, Huaiqing *see* **Qiu, Daowen**, 2005k:68050
Wang, Shun Jin *see* **An, Jun-Hong et al.**, 2005k:81382
Wang, Xiaohong[2] (*with* Fei, Shao Ming; Wang, Zhi-Xi; Wu, Ke[1]) On PPT states in $\mathscr{C}^K \otimes \mathscr{C}^M \otimes \mathscr{C}^N$ composite quantum systems. (English summary) **2005h:81079**
Wang, Zhi-Xi *see* **Wang, Xiaohong[2] et al.**, 2005h:81079
Watrous, John On the complexity of simulating space-bounded quantum computations. (English summary) **2005f:68047**
— *see also* **Gerhardt, Heath**, 2005f:82042; **Kitaev, Alexei**, (2005i:68003) *and* **Ambainis, Andris et al.**, (2005j:68008)
Wei, Daxiu (*with* Luo, Jun[3]; Sun, Xianping; Zeng, Xizhi; Liu, Maili) Three-qubit quantum error-correction scheme based on quantum cloning. (English summary) **2005e:94293**
Westphal, Jonathan *see* **Caulfield, H. John**, 2005a:03055
(Wheeler, John Archibald) *see* **Zeilinger, Anton**
Winter, Andreas (*with* Nascimento, Anderson C. A.; Imai, Hideki) Commitment capacity of discrete memoryless channels. (English summary) **2005e:94217**
— *see also* **Devetak, Igor**
de Wolf, Ronald Nondeterministic quantum query and communication complexities. (English summary) **2005c:68056**
— *see also* **Kerenidis, Iordanis**, 2005e:68042; 2005k:94037 *and* **Beals, Robert et al.**, 2005m:68083
Wolf, Stefan *see* **Renner, Renato**, 2005d:94186 *and* 2005e:94201
Wu, Ke[1] *see* **Wang, Xiaohong[2] et al.**, 2005h:81079
Yamakami, Tomoyuki *see* **Kobayashi, Hirotada et al.**, 2005d:68047; **Jackson, Jeffrey C. et al.**, (2005a:68012); **Nishimura, Harumichi**, (2005m:68011) *and* (2005m:68009)
Yamasaki, Tomohiro (*with* Kobayashi, Hirotada; Imai, Hiroshi) Quantum versus deterministic counter automata. (English summary) (*see* **2005a:68012**)
Yanagi, Kenjiro (*with* Furuichi, Shigeru; Kuriyama, Ken) On trace inequalities and their applications to noncommutative communication theory. (English summary) **2005i:15033**
Yang, Xiao Dong[1] *see* **Ma, Xiao San et al.**, 2005k:81037
Ye, Pei Xin *see* **Hu, Xiao-fei**, 2005m:65039
Yi, Hyo Seok (*with* Nguyen Ba An; Kim, Jaewan[2]) K-dimensional trio coherent states. (English summary) **2005m:81158**
Ying, Mingsheng *see* **Qiu, Daowen**, 2005d:68038 *and* **Cao, Hongen**, 2005h:81052
You, Hao *see* **Ma, Xiao San et al.**, 2005k:81037
Zanardi, Paolo *see* **Hamma, Alioscia et al.**, 2005j:81018
Zbinden, H. *see* **Thew, R. T. et al.**, 2005h:81074
Zeh, H. Dieter The wave function: it or bit?
Zeilinger, Anton Why the quantum? "It" from "bit"? A participatory universe? Three far-reaching challenges from John Archibald Wheeler and their relation to experiment.
Zeng, Gui-Hua Security of quantum cryptography against Trojan horse attacking. (English and Chinese summaries) **2005c:94060**
Zeng, Xizhi *see* **Wei, Daxiu et al.**, 2005e:94293
Zhang, Shengyu On the power of Ambainis lower bounds. (English summary) **2005m:68092**
Zhou, Jie (*with* Ma, Lei[1]; Li, Yun[4]) Multiplayer quantum games with continuous-variable strategies. (English summary) **2005k:91023**
Zhou, Lan[2] *see* **Lu, Jing[3] et al.**
Zimand, Marius ★ Computational complexity: a quantitative perspective. **2005m:68005**
Zizzi, Paola A. A minimal model for quantum gravity. (English summary) **2005k:83061**
Życzkowski, Karol (*with* Sommers, Hans-Jürgen) Average fidelity between random quantum states. (English summary) **2005m:81054**

81P99 None of the above, but in this section

Abbott, Derek *see* **Flitney, Adrian P.**, 2005j:81048
Ali, M. K. *see* **Andrecut, M.**, 2005e:81047
Andrecut, M. (*with* Ali, M. K.) The adiabatic analogue of the Margolus-Levitin theorem. (English summary) **2005e:81047**
Battaglia, Demian (*with* Rasetti, Mario) Quantum-like diffusion over discrete sets. (English summary) **2005f:81047**
Chen, Bo[1] (*with* Ma, Ying-Jun; Long, Gui Lu) Quantum game with restricted matrix strategies. (English summary) **2005e:81048**
Chen, Qing[2] (*with* Wang, Yi[5]; Liu, Jin-Tao; Wang, Ke-Lin) N-player quantum minority game. (English summary) **2005g:81074**
Du, Jiangfeng (*with* Ju, Chenyong; Li, Hui[5]) Quantum entanglement helps in improving economic efficiency. (English summary) **2005j:81047**
Fang, Xi Ming *see* **Zhao, Hai-Jun**, 2005d:81113
Figueiredo, J. M. A. Quantum games. (English summary) **2005d:81107**
Flitney, Adrian P. (*with* Abbott, Derek) Quantum games with decoherence. (English summary) **2005j:81048**
Frieden, B. Roy ★ Science from Fisher information. **2005f:81048**
Hayashi, Masahito *see* **Ogawa, Tomohiro**, 2005f:81049
Imoto, Nobuyuki *see* **Özdemir, Şahin Kaya et al.**, 2005d:81111
Iqbal, Azhar Quantum correlations and Nash equilibria of a bi-matrix game. (English summary) **2005d:81108**
Ju, Chenyong *see* **Du, Jiangfeng et al.**, 2005j:81047
Kempf, Achim Covariant information-density cutoff in curved space-time. (English summary) **2005h:81102**
Labuschagne, Louis E. (*with* Majewski, Władysław A.) Quantum recurrences versus stability. (English summary) **2005e:81049**
Li, Hui[5] *see* **Du, Jiangfeng et al.**, 2005j:81047
Liu, Jin-Tao *see* **Chen, Qing[2] et al.**, 2005g:81074
Liu, Xu-Feng Generalized quantum games with Nash equilibrium. (English summary) **2005d:81109**
Long, Gui Lu *see* **Chen, Bo[1] et al.**, 2005e:81048
Ma, Ying-Jun *see* **Chen, Bo[1] et al.**, 2005e:81048
Majewski, Władysław A. *see* **Labuschagne, Louis E.**, 2005e:81049
Mc Hugh, D. (*with* Twamley, J.) Sixth-order robust gates for quantum control. (English summary) **2005j:81049**
Nawaz, Ahmad (*with* Toor, A. H.) Dilemma and quantum battle of sexes. (English summary) **2005d:81110**
— (*with* Toor, A. H.) Generalized quantization scheme for two-person non-zero sum games. (English summary) **2005g:81075**
Ogawa, Tomohiro (*with* Hayashi, Masahito) On error exponents in quantum hypothesis testing. (English summary) **2005f:81049**
Özdemir, Şahin Kaya (*with* Shimamura, Junichi; Imoto, Nobuyuki) Quantum advantage does not survive in the presence of a corrupt source: optimal strategies in simultaneous move games. (English summary) **2005d:81111**
Pati, Arun K. Replication and evolution of quantum species. (English summary)
Peretto, P. Space-time generated from a set of binary units. (English summary) **2005d:81112**
Rasetti, Mario *see* **Battaglia, Demian**, 2005f:81047
Segre, Gavriel Noncommutative Bayesian statistical inference from a wedge of a bifurcate Killing horizon. (English summary)
Shimamura, Junichi *see* **Özdemir, Şahin Kaya et al.**, 2005d:81111
Toor, A. H. *see* **Nawaz, Ahmad**, 2005d:81110 *and* 2005g:81075
Twamley, J. *see* **Mc Hugh, D.**, 2005j:81049
Wang, Ke-Lin *see* **Chen, Qing[2] et al.**, 2005g:81074
Wang, Yi[5] *see* **Chen, Qing[2] et al.**, 2005g:81074
Zhao, Hai-Jun (*with* Fang, Xi Ming) Influence of constraint in parameter space on quantum games. (English summary) **2005d:81113**

Items with secondary classifications in 81P99

Abbott, Derek *see* **Flitney, Adrian P., 2005h:68104**
ben-Avraham, Daniel (*with* Bollt, Erik M.; Tamon, Christino) One-dimensional continuous-time quantum walks. (English summary) **2005g:81178**
Bollt, Erik M. *see* **ben-Avraham, Daniel et al., 2005g:81178**
Boyarsky, Abraham (*with* Góra, Paweł) Nonobservable space dimensions and the discreteness of time. (English summary)
Dowker, Fay (*with* Henson, Joe) Spontaneous collapse models on a lattice. (English summary) **2005g:81216**
Flitney, Adrian P. (*with* Abbott, Derek) A semi-quantum version of the game of Life. (English summary) **2005h:68104**
Góra, Paweł *see* **Boyarsky, Abraham**
Hawkins, Eli (*with* Markopoulou, Fotini; Sahlmann, Hanno) Evolution in quantum causal histories. (English summary) **2005a:83041**
Henson, Joe *see* **Dowker, Fay, 2005g:81216**
Khatun, M. *see* **Sturzu, I., 2005g:82087**
Khrennikov, Andrei Yu. On quantum-like probabilistic structure of mental information. (English summary)
MacKay, David J. C. (*with* Mitchison, Graeme; McFadden, Paul L.) Sparse-graph codes for quantum error correction. (English summary)
Markopoulou, Fotini *see* **Hawkins, Eli et al., 2005a:83041**
McFadden, Paul L. *see* **MacKay, David J. C. et al.**
Milman, Pérola *see* **Ribeiro, P. et al., 2005j:82033**
Mitchison, Graeme *see* **MacKay, David J. C. et al.**
Mosseri, Rémy *see* **Ribeiro, P. et al., 2005j:82033**
Piotrowski, Edward W. (*with* Sładkowski, Jan) The next stage: quantum game theory. (English summary) **2005e:81045**
Rebolledo, Rolando A view on decoherence via master equations. (English summary) **2005m:82094**
Ribeiro, P. (*with* Milman, Pérola; Mosseri, Rémy) Aperiodic quantum random walks. (English summary) **2005j:82033**
Sahlmann, Hanno *see* **Hawkins, Eli et al., 2005a:83041**
Sładkowski, Jan *see* **Piotrowski, Edward W., 2005e:81045**
Sturzu, I. (*with* Khatun, M.) Quantum statistics for quantum-dot cellular automata. (English and Romanian summaries) **2005g:82087**
Tamon, Christino *see* **ben-Avraham, Daniel et al., 2005g:81178**
Wang, Charles H.-T. A nonlinear quantum model of the Friedmann universe. (English summary) **2005b:83048**

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Linton, C. M. (*with* Ratcliffe, K.) Bound states in coupled guides. I. Two dimensions. (English summary) **2005h:81103a**
— (*with* Ratcliffe, K.) Bound states in coupled guides. II. Three dimensions. (English summary) **2005h:81103b**
Ratcliffe, K. *see* **Linton, C. M., 2005h:81103a** *and* **2005h:81103b**

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Abodayeh, Kamaleldin *see* **Barakat, T. et al., 2005j:81051**
Ackad, E. (*with* Horbatsch, M.) Numerical solution of the Dirac equation by a mapped Fourier grid method. (English summary) **2005k:81054**
Ahmadi, Ali Reza *see* **Moayedi, Seyed Kamran et al., (2005f:00012)**
Alhaidari, A. D. Exact L^2 series solution of the Dirac-Coulomb problem for all energies. (English summary) **2005d:81114**
— The Dirac-oscillator Green's function. (English summary)
— The relativistic Dirac-Morse Green's function. (English summary) **2005h:81104**
— Solution of the relativistic Dirac-Hulthén problem. (English summary) **2005a:81051**
— L^2-series solutions of the Dirac equation for power-law potentials at rest mass energy. (English summary) **2005h:81105**
— Solution of the Dirac equation with position-dependent mass in the Coulomb field. (English summary) **2005a:81052**
— L^2 series solution of the relativistic Dirac-Morse problem for all energies. (English summary) **2005c:81043**
Alvarez, Gabriel (*with* Álvarez-Estrada, Ramón F.) Third-order equation for harmonic generation: complex canonical transformation and JWKB solution. (English summary) **2005a:81053**
Álvarez-Estrada, Ramón F. *see* **Alvarez, Gabriel, 2005a:81053**
Amaya-Tapia, A. (*with* Gasaneo, G.; Ovchinnikov, S. Yu.; Macek, J. H.; Larsen, S. Y.) Integral representation of one-dimensional three particle scattering for δ function interactions. (English summary) **2005d:81115**
Amore, Paolo (*with* Aranda, Alfredo; De Pace, Arturo) A new method for the solution of the Schrödinger equation. (English summary) **2005d:81116**
Aranda, Alfredo *see* **Amore, Paolo et al., 2005d:81116**
Aunola, Matias Explicit representations of Pollaczek polynomials corresponding to an exactly solvable discretization of the hydrogen radial Schrödinger equation. (English summary) **2005j:81050**
Bagchi, Bijan Kumar (*with* Gorain, P.; Quesne, C.; Roychoudhury, R.) Effective-mass Schrödinger equation and generation of solvable potentials. (English summary) **2005i:81034**
Bandrauk, André D. (*with* Lu, Hui-Zhong) Numerical methods for molecular time-dependent Schrödinger equations—bridging the perturbative to nonperturbative regime. (*see* **2005c:81001**)
Barakat, T. (*with* Abodayeh, Kamaleldin; Mukheimer, Aiman) The asymptotic iteration method for the angular spheroidal eigenvalues. (English summary) **2005j:81051**
Belokolos, Eugene D. (*with* Ènol'skiĭ, V. Z.; Salerno, Mario) Wannier functions of elliptic one-gap potential. (English summary) **2005g:81076**
Bender, Carl M. Complex extension of quantum mechanics. (English summary) **2005b:81029**
Bessis, Daniel (*with* Mezincescu, Andrei) The variable mass Schroedinger equation. (*see* **2005i:00016**)
Bhattacharjee, Jayanta K. *see* **Bhattacharyya, Kamal**
Bhattacharyya, Kamal (*with* Bhattacharjee, Jayanta K.) Zero-point energies of subharmonic oscillators. (English summary)
Bhatti, Muhammad I. (*with* Debnath, Lokenath) On fractional Schrödinger and Dirac equations. (English summary)
Bielski, Sebastian *see* **Szmytkowski, Radosław, 2005g:81089**
Bíla, Hynek *see* **Znojil, Miloslav et al., 2005h:81117**
Borisov, Denis I. (*with* Exner, Pavel) Exponential splitting of bound states in a waveguide with a pair of distant windows. (English summary) **2005b:81030**
Boudjedaa, T. *see* **Boutabia-Chéraitia, B., 2005k:81055**
Bounames, A. *see* **Ferkous, N.**
Boutabia-Chéraitia, B. (*with* Boudjedaa, T.) Solution of DKP equation in Woods-Saxon potential. (English summary) **2005k:81055**
Bruneau, Laurent The ground state problem for a quantum Hamiltonian describing friction. (English and French summaries) **2005c:81044**
Caliceti, Emanuela (*with* Cannata, Francesco; Znojil, Miloslav; Ventura, Alberto) Construction of $\mathscr{PT}$-asymmetric non-Hermitian Hamiltonians with $\mathscr{CPT}$ symmetry. (English summary) **2005j:81052**
Cannata, Francesco *see* **Caliceti, Emanuela et al., 2005j:81052**
Cariñena, José F. (*with* Rañada, Manuel F.; Santander, Mariano) One-dimensional model of a quantum nonlinear harmonic oscillator. (English summary) **2005k:81056**
de Castro, Antonio S. Bound states of the Dirac equation for a class of effective quadratic plus inversely quadratic potentials. (English summary) **2005b:81031**
— Exact solution for a fermion in the background of a scalar inversely linear potential. (English summary) **2005d:81117**
Caudrelier, V. (*with* Mintchev, M.; Ragoucy, É.) Solving the quantum nonlinear Schrödinger equation with δ-type impurity. (English summary) **2005m:81076**
— (*with* Ragoucy, É.) Spontaneous symmetry breaking in the non-linear Schrödinger hierarchy with defect. (English summary) **2005k:81057**
Cerveró, José M. (*with* Rodríguez, Alberto) The band spectrum of periodic potentials with $\mathscr{PT}$-symmetry. (English summary) **2005g:81077**
Chen, Gang[8] Spinless particle in the generalized Hulthén potential. (English summary)
— The exact solutions of the Schrödinger equation with the Morse potential via Laplace transforms. (English summary)
— Solutions of the Dirac equation with the four-parameter diatomic potential. (English summary) **2005h:81106**
— The recursion relations for the N-dimensional harmonic oscillator. (English summary) **2005d:81118**
— Approximate series solutions of the N-dimensional position-dependent mass Schrödinger equation. (English summary)
— (*with* Chen, Zi-Dong; Lou, Zhi Mei) Exact bound state solutions of the s-wave Klein-Gordon equation with the generalized Hulthén potential. (English summary) **2005f:81050**
— Solution of the Klein-Gordon for exponential scalar and vector potentials. (English summary) **2005k:81058**
— Relativistic spectral comparison theorem in two dimensions. (English summary) **2005m:81077**
(Chen, Yung-Fu) *see* **Makowski, Adam J.**
Chen, Zi-Dong *see* **Chen, Gang[8] et al., 2005f:81050**
Childs, Andrew M. (*with* Goldstone, Jeffrey) Spatial search and the Dirac equation. (English summary)
Cho, Hing Tong (*with* Lin, Y.-C.) WKB analysis of the scattering of massive Dirac fields in Schwarzschild black-hole spacetimes. (English summary) **2005m:81078**
Chryssomalakos, Chryssomalis (*with* Franco, Alfredo; Reyes-Coronado, Alejandro) Spin-1/2 particle on a cylinder with radial magnetic field. (English summary) **2005b:81032**
Chuburin, Yu. P. *see* **Smetanina, M. S., 2005f:81055**
Corella-Madueño, A. (*with* Rosas, R. A.; Marín Flores, José Luis; Riera, R.) Exatons confined within prolate spheroidal quantum dots. (Spanish. English and Spanish summaries)
Cornejo-Pérez, Octavio *see* **Rosu, H. C. et al., 2005g:81087**
Cushman, Richard *see* **Giacobbe, Andrea et al., 2005h:81111**
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Deb, B. M. *see* **Roy, Amlan K. et al.**
Debnath, Lokenath *see* **Bhatti, Muhammad I.**
De Pace, Arturo *see* **Amore, Paolo et al., 2005d:81116**
Diao, Yong-Feng *see* **Jia, Chun-Sheng et al., 2005g:81083** *and* **Yi, Liang Zhong et al., 2005h:81116**
Dimock, J. (*with* Rajeev, S. G.) Multi-particle Schrödinger operators with point interactions in the plane. (English summary) **2005k:81059**
Doebner, H. D. (*with* Kopp, Alois; Zhdanov, R. Z.) Extensions of physical theories: quantum mechanics with internal degrees of freedom and nonlinear transformations. (English summary)
Dong, Shi-Hai (*with* Sun, Guo-Hua; Lozada-Cassou, M.) An algebraic approach to the ring-shaped non-spherical oscillator. (English summary) **2005d:81119**
— (*with* Sun, Guo-Hua) The Schrödinger equation with a Coulomb plus inverse-square potential in D dimensions. (English summary) **2005c:81045**
Droz-Vincent, Ph. Reduction of relativistic three-body kinematics. (English summary) **2005c:81046**
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Ènol'skiĭ, V. Z. *see* **Belokolos, Eugene D. et al., 2005g:81076**
Erdoğan, M. Burak (*with* Killip, Rowan; Schlag, Wilhelm) Energy growth in Schrödinger's equation with Markovian forcing. (English summary) **2005g:81078**

Even, J. (*with* Loualiche, S.) Exact analytical solutions describing quantum dot, ring and wire wavefunctions. (English summary) **2005d:81121**
Exner, Pavel *see* **Borisov, Denis I., 2005b:81030**
Ey, Kristine (*with* Ruffing, Andreas) Basic analogs of Schrödinger's equation. (English summary) **2005a:81054**
Fan, Hong Yi[1] (*with* Li, Chao[3]) Invariant 'eigen-operator' of the square of Schrödinger operator for deriving energy-level gap. (English summary) **2005k:81060**
— (*with* Li, Chao[3]) Bessel equation as an operator identity's matrix element in quantum mechanics. (English summary) **2005h:81107**
Feng, Jun-Lan *see* **Yao, Qian-Kai et al.**
Feng, Xue-Chao *see* **Yao, Qian-Kai et al.**
Ferkous, N. (*with* Bounames, A.) Energy spectrum of a 2D Dirac oscillator in the presence of the Aharonov-Bohm effect. (English summary)
Fermanian Kammerer, Clotilde A non-commutative Landau-Zener formula. (English summary) **2005h:81108**
Franco, Alfredo *see* **Chryssomalakos, Chryssomalis et al., 2005b:81032**
Friedberg, Richard M. (*with* Lee, T. D.) A new proof for the convergent iterative solution of the degenerate quantum double-well potential and its generalization. (English summary) **2005a:81055**
Fröhlich, Jürg (*with* Lenzmann, Enno) Mean-field limit of quantum Bose gases and nonlinear Hartree equation. (English summary) **2005m:81079**
Gaillard, Pierre[2] A new family of deformations of Darboux-Pöschl-Teller potentials. (English summary) **2005h:81109**
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Gavrilov, S. P. (*with* Gitman, D. M.; Smirnov, Andrei A.; Voronov, B. L.) Dirac fermions in a magnetic-solenoid field. (English summary) **2005h:81110**
Ghanmi, Allal Euclidean limit of L^2-spectral properties of the Pauli Hamiltonians on constant curvature Riemann surfaces. (English summary) **2005m:81080**
Giacobbe, Andrea (*with* Cushman, Richard; Sadovskiĭ, D. A.; Zhilinskiĭ, B. I.) Monodromy of the quantum 1 : 1 : 2 resonant swing spring. (English summary) **2005h:81111**
Gitman, D. M. *see* **Gavrilov, S. P. et al., 2005h:81110**
Goedecker, Stefan Linear scaling methods for the solution of Schrödinger's equation. (*see* **2005c:81001**)
Goldstone, Jeffrey *see* **Childs, Andrew M.**
Gómez, Francisco Javier (*with* Sesma, Javier) Quantum anharmonic oscillators: a new approach. (English summary) **2005k:81061**
Gorain, P. *see* **Bagchi, Bijan Kumar et al., 2005i:81034**
Gravesen, Jens (*with* Willatzen, Morten; Lew Yan Voon, L. C.) Schrödinger problems for surfaces of revolution—the finite cylinder as a test example. (English summary) **2005k:81062**
Grosse, Harald (*with* Langmann, Edwin; Paufler, Cornelius) Exact solution of a 1D quantum many-body system with momentum-dependent interactions. (English summary) **2005g:81079**
— (*with* Langmann, Edwin; Paufler, Cornelius) Corrigendum: "Exact solution of a 1D many-body system with momentum-dependent interactions" [J. Phys. A **37** (2004), no. 16, 4579–4592; MR2065946 (2005g:81079)]. **2005g:81080**
Guedes, I. *see* **Pedrosa, I. A., 2005g:81085**
Guo, Jian-You (*with* Sheng, Zong-Qiang) Solution of the Dirac equation for the Woods-Saxon potential with spin and pseudospin symmetry. (English summary) **2005m:81081**
Hagedorn, George A. (*with* Joye, Alain) Time development of exponentially small non-adiabatic transitions. (English summary) **2005k:81063**
Hall, Richard L. (*with* Lucha, Wolfgang; Schöberl, Franz F.) Relativistic N-boson systems bound by pair potentials $V(r_{ij}) = g(r_{ij}^2)$. (English summary) **2005g:81081**
— (*with* Katatbeh, Qutaibeh D.; Saad, Nasser) A basis for variational calculations in d dimensions. (English summary) **2005f:81051**
Haselgrove, Henry L. (*with* Nielsen, Michael A.; Osborne, Tobias J.) Quantum states far from the energy eigenstates of any local Hamiltonian. (English summary) **2005a:81056**
Horbatsch, M. *see* **Ackad, E., 2005k:81054**
Hou, Ji Xuan *see* **Liu, Quan Hui[1] et al.**
Howard, I. A. (*with* Minguzzi, A.; March, N. H.; Tosi, M. P.) Slater sum for the one-dimensional sech^2 potential in relation to the kinetic energy density. (English summary) **2005g:81082**
(Huang, Kai Feng) *see* **Makowski, Adam J.**
Huang, Rui-Yao *see* **Jia, Chun-Sheng et al., 2005g:81083**
Huseynbayova, Almas M. Investigation of the existence conditions and finding the number of stationary states of quantum mechanical particles in the narrow deep potential pit. (English summary) **2005j:81053**
Hwang, Tsung-Min (*with* Lin, Wen Wei; Wang, Wei-Cheng; Wang, Weichung) Numerical simulation of three dimensional pyramid quantum dot. (English summary) **2005a:81057**
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Jackson, Russell K. (*with* Weinstein, Michael I.) Geometric analysis of bifurcation and symmetry breaking in a Gross-Pitaevskii equation. (English summary) **2005h:81112**
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Jakubský, Vít *see* **Znojil, Miloslav et al., 2005h:81117**
Jia, Chun-Sheng (*with* Diao, Yong-Feng; Li, Min; Yang, Qiu-Bo; Sun, Liang-Tian; Huang, Rui-Yao) Mapping of the five-parameter exponential-type potential model into trigonometric-type potentials. (English summary) **2005g:81083**
— *see also* **Yi, Liang Zhong et al., 2005h:81116**
Joye, Alain *see* **Hagedorn, George A., 2005k:81063**
Kagali, B. A. *see* **Rao, Nagalakshmi A.**
Kalogiratou, Z. (*with* Monovasilis, Th.; Simos, T. E.) Numerical solution of the two-dimensional time independent Schrödinger equation with Numerov-type methods. (English summary)
— *see also* **Monovasilis, Th. et al.**
Kandemir, B. S. Two interacting electrons in a uniform magnetic field and a parabolic potential: the general closed-form solution. (English summary) **2005j:81054**
Kapoor, A. K. *see* **Sree Ranjani, S. et al., 2005h:81115**
Kapuścik, Edward (*with* Podlaska, J.; Szczeszek, P.) Nonstandard boundary conditions in quantum mechanics. (English summary)
Karagioz, O. V. *see* **Kuznetsov, A. I. et al.**
Katatbeh, Qutaibeh D. *see* **Hall, Richard L. et al., 2005f:81051**
Kevrekidis, Panayotis G. *see* **Konotop, V. V., 2005a:81058**
Khalilov, V. R. Dirac electron in Aharonov-Bohm and planar Coulomb potentials. (English summary) **2005c:81047**
Khare, Avinash (*with* Rasmussen, Kim Ø.; Samuelsen, Mogens R.; Saxena, Avadh) Exact solutions of the saturable discrete nonlinear Schrödinger equation. (English summary) **2005i:81035**
Killip, Rowan *see* **Erdoğan, M. Burak et al., 2005g:81078**
Konotop, V. V. (*with* Kevrekidis, Panayotis G.) Bohr-Sommerfeld quantization condition for the Gross-Pitaevskii equation. (English summary) **2005a:81058**
Kopp, Alois *see* **Doebner, H. D. et al.**
Korsch, H. J. *see* **Witthaut, Dirk et al., 2005k:81068**
Kovalchuk, Vasyl Green function for Klein-Gordon-Dirac equation. (English summary) **2005k:81064**
Kuznetsov, A. I. (*with* Karagioz, O. V.; Izmailov, V. P.) The frequency of anharmonic oscillator taking into account seventh-order terms. (English and Russian summaries)
Lakehal, H. *see* **Maamache, M.**
Langmann, Edwin *see* **Grosse, Harald et al., 2005g:81079** *and* **2005g:81080**
Larsen, S. Y. *see* **Amaya-Tapia, A. et al., 2005d:81115**
Lazur, V. Yu. (*with* Tsogla, I. V.) Separation of variables and some solution of a two-center problem with a confinement-type potential. (English, Russian and Ukrainian summaries) **2005f:81052**
Leach, P. G. L. The solution of some quantum nonlinear oscillators with the common symmetry group $SL(2, \mathbf{R})$. (English summary) **2005k:81065**
Lee, T. D. *see* **Friedberg, Richard M., 2005a:81055**
Lenzmann, Enno *see* **Fröhlich, Jürg, 2005m:81079**
Lew Yan Voon, L. C. (*with* Willatzen, Morten) Helmholtz equation in parabolic rotational coordinates: application to wave problems in quantum mechanics and acoustics. (English summary) **2005c:81048**
— *see also* **Gravesen, Jens et al., 2005k:81062**
Li, Chao[3] *see* **Fan, Hong Yi[1], 2005h:81107** *and* **2005k:81060**
Li, De-Min *see* **Yao, Qian-Kai et al.**
Li, Liang Xin *see* **Liu, Quan Hui[1] et al.**
Li, Min *see* **Jia, Chun-Sheng et al., 2005g:81083**
Liang, Mai-Lin (*with* Zhang, Zhi-Guo; Zhong, Kai-Sheng) General solution and quantum phases of the time-dependent linear potential. (English summary)
Liao, Jin-Feng (*with* Zhuang, Peng-Fei) Analytic solution of strongly coupling Schrödinger equations. (English summary) **2005d:81122**
Lin, Qiong-Gui Time evolution, cyclic solutions and geometric phases for the generalized time-dependent harmonic oscillator. (English summary) **2005a:81059**
Lin, Wen Wei *see* **Hwang, Tsung-Min et al., 2005a:81057**
Lin, Y.-C. *see* **Cho, Hing Tong, 2005m:81078**
Liu, Jian-Yi *see* **Yi, Liang Zhong et al., 2005h:81116**
Liu, Quan Hui[1] (*with* Hou, Ji Xuan; Xiao, Y. P.; Li, Liang Xin) Quantum motion on 2D surface of nonspherical topology. (English summary)
López-Bonilla, J. L. (*with* Ovando Zúñiga, Gerardo; Rivera-Rebolledo, J. M.) Ladder operators for the two-dimensional harmonic oscillator. (English summary) **2005g:81084**
López-Sandoval, R. *see* **Rosu, H. C. et al., 2005g:81087**
Lou, Zhi Mei *see* **Chen, Gang[8] et al., 2005f:81050**
Loualiche, S. *see* **Even, J., 2005d:81121**
Low, F. E. Motion of an electron in a weak, spatially uniform external electric field. (English summary) **2005c:81049**
Lozada-Cassou, M. *see* **Dong, Shi-Hai et al., 2005d:81119**
Lu, Hui-Zhong *see* **Bandrauk, André D., (2005c:81001)**
Lu, Meng *see* **Xu, Ying et al.**
Luan, Pi-Gang (*with* Tang, Chi-Shung) Lewis-Riesenfeld approach to the solutions of the Schrödinger equation in the presence of a time-dependent linear potential. (English summary) **2005i:81036**
Lucha, Wolfgang *see* **Hall, Richard L. et al., 2005g:81081**
Ma, Bing *see* **Yao, Qian-Kai et al.**
Maamache, M. (*with* Lakehal, H.) Solution of the generalized Dirac equation in a time-dependent linear potential: relativistic geometric amplitude factor. (English summary)
Macek, J. H. *see* **Amaya-Tapia, A. et al., 2005d:81115**
Maday, Yvon (*with* Turinici, Gabriel) Error bars and quadratically convergent methods for the numerical simulation of the Hartree-Fock equations. (English summary) **2005c:81050**
de la Madrid, Rafael The rigged Hilbert space of the algebra of the one-dimensional rectangular barrier potential. (English summary) **2005i:81037**
Makowski, Adam J. Comment on: "Vortex structure of quantum eigenstates and classical periodic orbits in two-dimensional harmonic oscillators" [J. Phys. A **36** (2003), no. 28, 7751–7760; MR2004945] by Y. F. Chen and K. F. Huang. (English summary)
March, N. H. *see* **Howard, I. A. et al., 2005g:81082**
Marín Flores, José Luis *see* **Corella-Madueño, A. et al.**
Mezincescu, Andrei *see* **Bessis, Daniel, (2005i:00016)**
Micu, C. (*with* Papp, E.) Generalizing the q-symmetrized Harper-equation. (English summary) **2005m:81082**
Micu, L. Analytical solutions of a Dirac bound state equation and their relativistic interpretation. (English summary) **2005m:81083**
Milward, Geoffrey C. (*with* Wilkin, Colin) The quantum probability equation. III. Perturbing in the energy. (English summary) **2005a:81060**
Minguzzi, A. *see* **Howard, I. A. et al., 2005g:81082**
Mintchev, M. *see* **Caudrelier, V. et al., 2005m:81076**
Moayedi, Seyed Kamran (*with* Darabi, Farhad; Ahmadi, Ali Reza) Proof of mathematical equivalence between Dirac equation and a 2D static Lorentzian manifold with position dependent mass Dirac equation on a 2D Minkowski space. (Persian. English summary) (*see* **2005f:00012**)
Monovasilis, Th. (*with* Kalogiratou, Z.; Simos, T. E.) Exponentially fitted symplectic methods for the numerical integration of the Schrödinger equation. (English summary)
— *see also* **Kalogiratou, Z. et al.**
Mossmann, S. *see* **Witthaut, Dirk et al., 2005k:81068**

Mukheimer, Aiman *see* **Barakat, T. et al., 2005j:81051**
Nakatsuji, Hiroshi Scaled Schrödinger equation and the exact wave function. (English summary) **2005h:81113**
Nielsen, Michael A. *see* **Haselgrove, Henry L. et al., 2005a:81056**
de Oliveira, César R. (*with* Prado, Roberto A.) Dynamical delocalization for the 1D Bernoulli discrete Dirac operator. (English summary) **2005j:81055**
Osborne, Tobias J. *see* **Haselgrove, Henry L. et al., 2005a:81056**
Ovando Zúñiga, Gerardo *see* **López-Bonilla, J. L. et al., 2005g:81084**
Ovchinnikov, S. Yu. *see* **Amaya-Tapia, A. et al., 2005d:81115**
Panahi-Talemi, H. (*with* Jafarizadeh, M. A.) Two and three dimensional Hamiltonians with generalized and ordinary shape invariance symmetry. (English summary) **2005m:81084**
Panigrahi, Prasanta K. *see* **Sree Ranjani, S. et al., 2005h:81115**
Papp, E. *see* **Micu, C., 2005m:81082**
Paufler, Cornelius *see* **Grosse, Harald et al., 2005g:81079** *and* **2005g:81080**
Pecheritsyn, A. A. *see* **Samsonov, Boris F., 2005c:81052**
Pedrosa, I. A. (*with* Guedes, I.) Exact quantum states of an inverted pendulum under time-dependent gravitation. (English summary) **2005g:81085**
— Complete exact quantum states of the generalized time-dependent harmonic oscillator. (English summary) **2005g:81086**
Podlaska, J. *see* **Kapuścik, Edward et al.**
Popov, Igor Yu. Asymptotics of bound states, bands and resonances for waveguides and layers coupled through small windows. (English summary) (*see* **2005b:00020**)
Prado, Roberto A. *see* **de Oliveira, César R., 2005j:81055**
Pupyshev, V. V. The structure of regular solutions of the three-particle Schrödinger equation near a double collision point. (Russian. Russian summary) **2005d:81123**
Quesne, C. *see* **Bagchi, Bijan Kumar et al., 2005i:81034**
Ragoucy, É. *see* **Caudrelier, V. et al., 2005k:81057** *and* **2005m:81076**
Raïkov, George D. Spectral asymptotics for the perturbed 2D Pauli operator with oscillating magnetic fields. I. Non-zero mean value of the magnetic field. (English summary) **2005f:81053**
Rajeev, S. G. *see* **Dimock, J., 2005k:81059**
Ramos, Higinio *see* **Vigo-Aguiar, Jesús**
Rañada, Manuel F. *see* **Cariñena, José F. et al., 2005k:81056**
Rao, Nagalakshmi A. (*with* Kagali, B. A.) Eigenfunctions of the two-dimensional Moshinsky-Szczepaniak oscillator. (English summary)
Rasmussen, Kim Ø. *see* **Khare, Avinash et al., 2005i:81035**
Reyes-Coronado, Alejandro *see* **Chryssomalakos, Chryssomalis et al., 2005b:81032**
Riera, R. *see* **Corella-Madueño, A. et al.**
Rivera-Rebolledo, J. M. *see* **López-Bonilla, J. L. et al., 2005g:81084**
Robert, Didier Remarks on time-dependent Schrödinger equations, bound states, and coherent states. (English summary) (*see* **2005c:81007**)
Robinett, R. W. Quantum wave packet revivals. (English summary) **2005c:81051**
Rodríguez, Alberto *see* **Cerveró, José M., 2005g:81077**
Rojas, Clara (*with* Villalba, Víctor M.) Scattering of a Klein-Gordon particle by a Woods-Saxon potential. (English summary) **2005m:81085**
Rosas, R. A. *see* **Corella-Madueño, A. et al.**
Rosu, H. C. (*with* Cornejo-Pérez, Octavio; López-Sandoval, R.) The classical harmonic oscillator with Dirac-like parameters and possible applications. (English summary) **2005g:81087**
Roy, Amlan K. (*with* Thakkar, Ajit J.; Deb, B. M.) Low-lying states of two-dimensional double-well potentials. (English summary)
Roychoudhury, R. *see* **Bagchi, Bijan Kumar et al., 2005i:81034**
Ruffing, Andreas *see* **Ey, Kristine, 2005a:81054**
Saad, Nasser *see* **Hall, Richard L. et al., 2005f:81051**
Saaidi, Khaled Eigenvalue spectrum of a Dirac particle in static and spherical complex potential. (English summary)
Sacchetti, Andrea Nonlinear time-dependent Schrödinger equations with double-well potential. (English summary) (*see* **2005c:81007**)
Sadovskiĭ, D. A. *see* **Giacobbe, Andrea et al., 2005h:81111**
Sakamoto, Makoto[1] (*with* Tanimura, Shogo) An extension of Fourier analysis for the n-torus in the magnetic field and its application to spectral analysis of the magnetic Laplacian. (English summary) **2005a:81061**
Sakhnovich, A. L. Non-Hermitian matrix Schrödinger equation: Bäcklund-Darboux transformation, Weyl functions and $\mathscr{PT}$ symmetry. (English summary) **2005h:81114**
Salerno, Mario *see* **Belokolos, Eugene D. et al., 2005g:81076**
Samsonov, Boris F. (*with* Pecheritsyn, A. A.) Chains of Darboux transformations for the matrix Schrödinger equation. (English summary) **2005c:81052**
Samuelsen, Mogens R. *see* **Khare, Avinash et al., 2005i:81035**
Santander, Mariano *see* **Cariñena, José F. et al., 2005k:81056**
Saxena, Avadh *see* **Khare, Avinash et al., 2005i:81035**
Schlag, Wilhelm *see* **Erdoğan, M. Burak et al., 2005g:81078**
Schöberl, Franz F. *see* **Hall, Richard L. et al., 2005g:81081**
Schulze-Halberg, Axel Quasi-exactly solvable potentials of the radial Dirac equation with two known levels. (English summary) **2005f:81054**
— N-multiplets of the radial Dirac equation. (English summary) **2005k:81066**
— Non-existence of Liouvillian solutions for a free quantum particle on a torus surface. I. Polar states. (English summary) **2005g:81088**
— Exact solutions of the time-dependent Schrödinger equation with time-dependent mass generated by functional and coordinate transformations. (English summary)
— Exact wave functions and energies of a non-relativistic free quantum particle on the surface of a degenerate torus. (English summary) **2005b:81033**
Sergeev, Sergei M. An evolution operator for a quantum pendulum. (Russian. Russian summary) **2005d:81124**
Sesma, Javier *see* **Gómez, Francisco Javier, 2005k:81061**
Sheng, Zong-Qiang *see* **Guo, Jian-You, 2005m:81081**
Shin, Kwang C. On the shape of spectra for non-self-adjoint periodic Schrödinger operators. (English summary) **2005e:81050**
Simos, T. E. *see* **Monovasilis, Th. et al.** *and* **Kalogiratou, Z. et al.**
Simsek, Mehmet (*with* Egrifes, Harun) The Klein-Gordon equation of generalized Hulthén potential in complex quantum mechanics. (English summary) **2005d:81125**
Sinitsyn, N. A. Counterintuitive transitions in the multistate Landau-Zener problem with linear level crossings. (English summary) **2005e:81051**
Smetanina, M. S. (*with* Chuburin, Yu. P.) On the levels of the Schrödinger operator for a crystal film with nonlocal potential. (Russian. Russian summary) **2005f:81055**
Smirnov, Andrei A. *see* **Gavrilov, S. P. et al., 2005h:81110**
Snyman, Izak Ambiguities in the regularization of the spiked harmonic oscillator. (English summary)
Soldatov, A. V. On the stochastic variational approach to lower bounds for energy eigenvalues of few-body quantum systems. (English summary) **2005m:81086**
Song, Tong-Qiang Density matrix and squeezed vacuum state for general coupling harmonic oscillator. (English summary) **2005b:81034**
de Souza Dutra, A. Mapping deformed hyperbolic potentials into nondeformed ones. (English summary) **2005k:81067**
Spiridonov, V. P. The factorization method, self-similar potentials and quantum algebras. (English summary) **2005c:81053**
Sree Ranjani, S. (*with* Kapoor, A. K.; Panigrahi, Prasanta K.) Band edge eigenfunctions and eigenvalues for periodic potentials through the quantum Hamilton-Jacobi formalism. (English summary) **2005h:81115**
Steuernagel, Ole Equivalence between focused paraxial beams and the quantum harmonic oscillator. (English summary) **2005m:81087**
Su, Ru-Keng *see* **Xu, Ying et al.**
Sun, Guo-Hua *see* **Dong, Shi-Hai et al., 2005c:81045** *and* **2005d:81119**
Sun, Liang-Tian *see* **Jia, Chun-Sheng et al., 2005g:81083**
Svetlichny, George On linearity of separating multiparticle differential Schrödinger operators for identical particles. (English summary) **2005a:81062**
Szczeszek, P. *see* **Kapuścik, Edward et al.**
Szmulowicz, Frank Solvable coupled Hamiltonian for a periodic potential. (English summary) **2005a:81063**
Szmytkowski, Radosław (*with* Bielski, Sebastian) Dirichlet-to-Neumann and Neumann-to-Dirichlet embedding methods for bound states of the Schrödinger equation. (English summary) **2005g:81089**
Tang, Chi-Shung *see* **Luan, Pi-Gang, 2005i:81036**
Tanimura, Shogo *see* **Sakamoto, Makoto[1], 2005a:81061**
Thakkar, Ajit J. *see* **Roy, Amlan K. et al.**
Thylwe, Karl-Erik The barrier transmission problem treated by the amplitude-phase method and expressed in terms of an invariant of the Ermakov-Lewis type. (English summary) **2005i:81038**
Tosi, M. P. *see* **Howard, I. A. et al., 2005g:81082**
Trinh Duc Tai Coefficients de Stokes du modèle cubique: point de vue de la résurgence quantique. (English and French summaries) [Quantum resurgence of the Stokes coefficients of the cubic model] **2005m:81088**
Tsogla, I. V. *see* **Lazur, V. Yu., 2005f:81052**
Turinici, Gabriel *see* **Maday, Yvon, 2005c:81050**
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Ventura, Alberto *see* **Caliceti, Emanuela et al., 2005j:81052**
Vigo-Aguiar, Jesús (*with* Ramos, Higinio) A variable-step Numerov method for the numerical solution of the Schrödinger equation. (English summary)
Villalba, Víctor M. *see* **Rojas, Clara, 2005m:81085**
Voronov, B. L. *see* **Gavrilov, S. P. et al., 2005h:81110**
Wang, Wei-Cheng *see* **Hwang, Tsung-Min et al., 2005a:81057**
Wang, Weichung *see* **Hwang, Tsung-Min et al., 2005a:81057**
Weigert, Stefan The Gram matrix of a $\mathscr{PT}$-symmetric quantum system. (English summary) **2005d:81126**
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Willatzen, Morten *see* **Lew Yan Voon, L. C., 2005c:81048** *and* **Gravesen, Jens et al., 2005k:81062**
Witthaut, Dirk (*with* Mossmann, S.; Korsch, H. J.) Bound and resonance states of the nonlinear Schrödinger equation in simple model systems. (English summary) **2005k:81068**
Xiao, Y. P. *see* **Liu, Quan Hui[1] et al.**
Xu, Ying (*with* Lu, Meng; Su, Ru-Keng) Extended Wronskian determinant approach and iterative solutions of one-dimensional Dirac equation. (English summary)
Yang, Qiu-Bo *see* **Jia, Chun-Sheng et al., 2005g:81083**
Yao, Qian-Kai (*with* Ma, Bing; Feng, Xue-Chao; Feng, Jun-Lan; Li, De-Min) Canonical transformation on an open system. (English summary)
Yi, Liang Zhong (*with* Diao, Yong-Feng; Liu, Jian-Yi; Jia, Chun-Sheng) Bound states of the Klein-Gordon equation with vector and scalar Rosen-Morse-type potentials. (English summary) **2005h:81116**
Yüce, Cem Exact solvability of moving boundary problems. (English summary)
— Time-dependent PT symmetric problems. (English summary) **2005k:81069**
Zakrzewski, Wojciech J. Solitonic states and nonlinear Schrödinger equation in two and more dimensions. (English, Russian and Ukrainian summaries)
Zav'yalov, O. I. On the Newton-Wigner problem in the relativistic quantum mechanics of free particles. (Russian. Russian summary)
Zhang, Zhi-Guo *see* **Liang, Mai-Lin et al.**
Zhao, Wei-Qin Revised iterative solution for groundstate of Schrödinger equation. (English summary) **2005g:81090**
Zhdanov, R. Z. *see* **Doebner, H. D. et al.**
Zhilinskiĭ, B. I. *see* **Giacobbe, Andrea et al., 2005h:81111**
Zhong, Kai-Sheng *see* **Liang, Mai-Lin et al.**
Zhuang, Peng-Fei *see* **Liao, Jin-Feng, 2005d:81122**
Znojil, Miloslav (*with* Bíla, Hynek; Jakubský, Vít) Pseudo-Hermitian approach to energy-dependent Klein-Gordon models. (English summary) **2005h:81117**
— Fragile $\mathscr{PT}$-symmetry in a solvable model. (English summary) **2005f:81056**
— *see also* **Caliceti, Emanuela et al., 2005j:81052**

Items with secondary classifications in 81Q05

Al'beverio, S. (*with* Kuzhel, Sergei) Pseudo-Hermiticity and theory of singular perturbations. (English summary) **2005f:47031**

— (*with* Fei, Shao Ming; Kurasov, Pavel) Gauge fields, point interactions and few-body problems in one dimension. (English summary) **2005g:81191**

Alhaidari, A. D. An extended class of L^2-series solutions of the wave equation. (English summary) **2005k:81089**

Alonso-Mallo, Isaías (*with* Reguera, Nuria) Discrete absorbing boundary conditions for Schrödinger-type equations, construction and error analysis. (English summary) **2005a:65079**

Amore, Paolo (*with* Aranda, Alfredo; De Pace, Arturo; López, Jorge A.) Comparative study of quantum anharmonic potentials. (English summary) **2005f:81065**

Amusia, M. Ya. (*with* Msezane, A. Z.; Shaginyan, V. R.; Sokolovski, Dmitri) On the relation between the Hartree-Fock and Kohn-Sham approaches. (English summary) **2005d:81388**

Andriopoulos, K. (*with* Leach, P. G. L.) Some group theoretical aspects of nonlinear quantal oscillators. (English summary) **2005k:81098**

Antoine, Xavier (*with* Besse, Christophe; Mouysset, Vincent) Numerical schemes for the simulation of the two-dimensional Schrödinger equation using non-reflecting boundary conditions. (English summary) **2005c:65067**

Aranda, Alfredo *see* **Amore, Paolo et al., 2005f:81065**

Arcos, H. I. (*with* Pereira, J. G.) Kerr-Newman solution as a Dirac particle. (English summary) **2005h:83022**

Asch, J. (*with* Benguria, Rafael D.; Št'ovíček, P.) Asymptotic properties of the differential equation $h^3(h'' + h') = 1$. (English summary) **2005j:34069**

Aspuru-Guzik, Alán (*with* Lester, William A., Jr.) Quantum Monte Carlo methods for the solution of the Schrödinger equation for molecular systems. (*see* **2005c:81001**)

Aunola, Matias The discretized harmonic oscillator: Mathieu functions and a new class of generalized Hermite polynomials. (English summary) **2005a:39032**

Bai, Zhan-Wu (*with* Bao, Jing-Dong) A quartic trial action in the path-integral approach to an asymmetrical double-well potential. (English summary) **2005h:81187**

Baïramogly, M. (*with* Taşçi, Fatih; Zeynalov, Djafar) On the discrete spectrum of non-self-adjoint Schrödinger differential equation with an operator coefficient. (English summary) **2005a:81064**

Baleanu, Dumitru Reparametrization invariance and Hamilton-Jacobi formalism. (English summary) **2005c:70035**

Bao, Jing-Dong *see* **Bai, Zhan-Wu, 2005h:81187**

Bao, Weizhu (*with* Jin, Shi; Markowich, Peter A.) Numerical study of time-splitting spectral discretizations of nonlinear Schrödinger equations in the semiclassical regimes. (English summary) **2005b:65113**

Baudouin, Lucie (*with* Puel, Jean-Pierre) An inverse problem for the Schrödinger equation. (English summary) **2005c:93025**

Ben-Aryeh, Yacob (*with* Mann, Ady; Yaakov, Itamar) Rabi oscillations in a two-level atomic system with a pseudo-Hermitian Hamiltonian. (English summary) **2005g:81357**

Benguria, Rafael D. *see* **Asch, J. et al., 2005j:34069**

Besse, Christophe *see* **Antoine, Xavier et al., 2005c:65067**

Borg, J. L. (*with* Pulé, Joseph V.) Pauli approximations to the self-adjoint extensions of the Aharonov-Bohm Hamiltonian. (English summary) **2005d:81129**

Boulton, Lyonell (*with* Marcantognini, S. A. M.; Morán, M. D.) Finite lifetime eigenfunctions of coupled systems of harmonic oscillators. (English summary) **2005i:34113**

Brau, Fabian (*with* Calogero, Francesco) Upper and lower limits on the number of bound states in a central potential. (English summary) **2005c:81237**

— Upper limit on the critical strength of central potentials in relativistic quantum mechanics. (English summary) **2005k:81350**

Brihaye, Yves (*with* Hartmann, Betti; Zakrzewski, Wojciech J.) Spinning solitons of a modified nonlinear Schrödinger equation. (English summary)

Buongiorno Nardelli, Marco *see* **Fattebert, Jean-Luc, (2005c:81001)**

Caliceti, Emanuela $\mathscr{PT}$-symmetry, canonical decomposition, perturbation theory. (English summary) **2005e:81054**

Calogero, Francesco *see* **Brau, Fabian, 2005c:81237**

Capuzzi, P. (*with* March, N. H.; Tosi, M. P.) Differential equation for the ground-state density of artificial two-electron atoms with harmonic confinement. (English summary) **2005m:81345**

Chae, Dongho (*with* Tarantello, Gabriella) On planar selfdual electroweak vortices. (English and French summaries) **2005b:81229**

Chalupka, S. *see* **Rubish, Vasyl' V. et al., 2005g:81104**

Chalykh, Oleg A. (*with* Veselov, A. P.) A remark on rational isochronous potentials. (English summary) **2005h:70020**

Chen, Chang-Yuan (*with* Lu, Fa-Lin; Sun, Dong-Sheng) Exact solutions of continuous states of Hartmann potential. (English summary) **2005d:81369**

Chen, Gang[8] (*with* Chen, Zi-Dong) Exact solutions of the position-dependent mass Schrödinger equation in D dimensions. (English summary) **2005f:35054**

Chen, Zi-Dong *see* **Chen, Gang[8], 2005f:35054**

Choi, Yung Sze (*with* Javanainen, Juha; Koltracht, Israel; Koštrun, Marijan; McKenna, Patrick J.; Savytska, Nataliya) A fast algorithm for the solution of the time-independent Gross-Pitaevskii equation. (English summary) **2005f:65161**

Coclite, Giuseppe Maria (*with* Georgiev, Vladimir S.) Solitary waves for Maxwell-Schrödinger equations. (English summary) **2005i:35227**

Coletta, Kevin (*with* Dias, Kealey; Strichartz, Robert S.) Numerical analysis on the Sierpinski gasket, with applications to Schrödinger equations, wave equation, and Gibbs' phenomenon. (English summary) **2005k:65245**

Coutinho, Francisco A. B. (*with* Nogami, Yukihisa; Tomio, Lauro; Toyama, F. M.) The Fermi pseudo-potential in one dimension. (English summary) **2005f:81275**

Cuccagna, Scipio (*with* Pelinovsky, Dmitry E.; Vougalter, Vitali) Spectra of positive and negative energies in the linearized NLS problem. (English summary) **2005k:35374**

Damnjanović, M. (*with* Milošević, I.; Vuković, T.; Marinković, T.) Wigner-Eckart theorem in the inductive spaces and applications to optical transitions in nanotubes. (English summary) **2005e:81081**

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Delfour, Michel C. Addendum and remarks on doubly conservative numerical schemes for the nonlinear Schrödinger equation and its control: "Finite-difference solutions of a nonlinear Schrödinger equation" [J. Comput. Phys. **44** (1981), no. 2, 277–288; MR0645840 (83c:65195)] by Delfour, M. Fortin and G. Payre. (English summary) **2005a:65082**

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— *see also* **Yu, Jiang, 2005c:81245**

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Ducati, G. C. *see* **De Leo, S., 2005j:34117**

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Flad, Heinz-Jürgen (*with* Hackbusch, Wolfgang; Luo, Hongjun; Kolb, Dietmar) Wavelet approach to quasi two-dimensional extended many-particle systems. I. Supercell Hartree-Fock method. (English summary) **2005m:65321**

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— (*with* Dobrokhotov, S. Yu.; Pankrashkin, Konstantin) The spectral asymptotics of the two-dimensional Schrödinger operator with a strong magnetic field. II. (English summary) **2005e:81053**
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Chuburin, Yu. P. On the spectrum and eigenfunctions of the two-dimensional Schrödinger operator with a magnetic field. (Russian. Russian summary) **2005b:81037**
Combes, Jean-Michel (*with* Hislop, Peter D.; Klopp, Frédéric; Raĭkov, George D.) Global continuity of the integrated density of states for random Landau Hamiltonians. (English summary) **2005g:81091**
Cordes, Heinz Otto Symmetry conditions on Dirac observables. (English summary) **2005d:81131**
— The split of the Dirac Hamiltonian into precisely predictable energy components. (English summary) **2005h:81121**
Damanik, David Quantum dynamical bounds for one-dimensional quasicrystals. (English summary) **2005e:81055**
— (*with* Cheremshantsev, S. E.) Power-law bounds on transfer matrices and quantum dynamics in one dimension. (English summary) **2005b:81038**
— (*with* Zamboni, Luca Q.) Combinatorial properties of Arnoux-Rauzy subshifts and applications to Schrödinger operators. (English summary) **2005b:81039**
— (*with* Lenz, Daniel) Half-line eigenfunction estimates and purely singular continuous spectrum of zero Lebesgue measure. (English summary) **2005b:81040**
— (*with* Sütő, András; Cheremshantsev, S. E.) Power-law bounds on transfer matrices and quantum dynamics in one dimension. II. (English summary) **2005j:81056**
Degli Esposti, Mirko (*with* Knauf, Andreas) On the form factor for the unitary group. (English summary) **2005m:81092**
Dittrich, Jaroslav (*with* Exner, Pavel; Hirokawa, Masao) A model of interband radiative transition. (English summary) **2005d:81132**
Dobrokhotov, S. Yu. *see* **Al'beverio, S. et al., 2005c:81054; Brüning, Jochen et al., 2005e:81052** *and* **2005e:81053**
Duclos, Pierre[1] *see* **Bentosela, François et al., 2005m:81089**
Ekholm, Tomas *see* **Borisov, Denis I. et al., 2005m:81090**
Elton, Daniel M. The Bethe-Sommerfield conjecture for the 3-dimensional periodic Landau operator. (English summary) **2005k:81070**
Erdős, László (*with* Solovej, Jan Philip) Uniform Lieb-Thirring inequality for the three-dimensional Pauli operator with a strong non-homogeneous magnetic field. (English summary) **2005e:81056**
— (*with* Solovej, Jan Philip) Magnetic Lieb-Thirring inequalities with optimal dependence on the field strength. (English summary) **2005f:81058**
Exner, Pavel (*with* Kondej, S.) Schrödinger operators with singular interactions: a model of tunnelling resonances. (English summary) **2005h:81122**
— (*with* Linde, Helmut; Weidl, Timo) Lieb-Thirring inequalities for geometrically induced bound states. (English summary) **2005i:81040**
— *see also* **Dittrich, Jaroslav et al., 2005d:81132**
Falomir, H. (*with* Muschietti, Maria Amelia; Pisani, P. A. G.) On the resolvent and spectral functions of a second order differential operator with a regular singularity. (English summary) **2005m:81093**
Fernández, Claudio (*with* Raĭkov, George D.) On the singularities of the magnetic spectral shift function at the Landau levels. (English and French summaries) **2005g:81092**
Fleckinger, Jacqueline *see* **Alziary, Bénédicte et al., 2005d:81127**
Formánek, J. (*with* Lombard, R. J.; Mareš, Jiří) Wave equations with energy-dependent potentials. (English summary) **2005c:81055**
Fülöp, Tamás (*with* Tsutsui, Izumi; Cheon, Taksu) Spectral properties on a circle with a singularity. (English summary) **2005c:81056**
Gadella, M. (*with* Gómez Cubillo, Fernando) On the mathematical basis of the Dirac formulation of quantum mechanics. (English summary) **2005a:81067**
Germinet, François (*with* Kiselev, Alexander; Cheremshantsev, S. E.) Transfer matrices and transport for Schrödinger operators. (English and French summaries) **2005h:81123**
Gesztesy, Fritz (*with* Simon, Barry) Connectedness of the isospectral manifold for one-dimensional half-line Schrödinger operators. (English summary) **2005e:81057**
Geyer, Hendrik B. (*with* Scholtz, Frederik G.; Snyman, Izak) Quasi-Hermiticity and the role of a metric in some boson Hamiltonians. (English summary) **2005h:81124**
Giraud, Olivier Diffractive orbits in isospectral billiards. (English summary) **2005d:81133**
Gómez Cubillo, Fernando *see* **Gadella, M., 2005a:81067**
Graffi, Sandro *see* **Caliceti, Emanuela, 2005i:81039**
Grudziński, Hubert (*with* Hirsch, Jacek) Spectral decomposition of an elementary 3-fermion 2-body operator. (English summary) **2005d:81134**
— (*with* Hirsch, Jacek) Searching for new conditions for fermion N-representability. (English summary) **2005f:81059**
Heiss, W. Dieter Exceptional points of non-Hermitian operators. (English summary) **2005a:81068**
Hirokawa, Masao *see* **Dittrich, Jaroslav et al., 2005d:81132**
Hirsch, Jacek *see* **Grudziński, Hubert, 2005d:81134** *and* **2005f:81059**
Hislop, Peter D. *see* **Combes, Jean-Michel et al., 2005g:81091**
Jensen, Arne[2] (*with* Nenciu, Gheorghe) Erratum: "A unified approach to resolvent expansions at thresholds" [Rev. Math. Phys. **13** (2001), no. 6, 717–754; MR1841744 (2002e:81031)]. **2005c:81057**
Jitomirskaya, S. (*with* Koslover, D. A.; Schulteis, M. S.) Localization for a family of one-dimensional quasiperiodic operators of magnetic origin. (English summary) **2005j:81057**
Jones, Hugh F. On pseudo-Hermitian Hamiltonians and their Hermitian counterparts. (English summary) **2005m:81094**
Kalf, Hubert (*with* Schmidt, Karl Michael) Spectral stability of the Coulomb-Dirac Hamiltonian with anomalous magnetic moment. (English summary) **2005m:81095**
Kang, Hyeonbae (*with* Uhlmann, Gunther) Inverse problems for the Pauli Hamiltonian in two dimensions. (English summary) **2005d:81135**
Kargaev, Pavel *see* **Chelkak, Dmitri et al., 2005h:81120**
Karpeshina, Yu. E. Spectral properties of the periodic magnetic Schrödinger operator in the high-energy region. Two-dimensional case. (English summary) **2005m:81096**
Kiselev, Alexander *see* **Christ, Michael, 2005a:81066** *and* **Germinet, François et al., 2005h:81123**
Klopp, Frédéric *see* **Combes, Jean-Michel et al., 2005g:81091**
Knauf, Andreas *see* **Degli Esposti, Mirko, 2005m:81092**
Kondej, S. *see* **Exner, Pavel, 2005h:81122**
Kondrat'ev, Vladimir (*with* Maz'ya, Vladimir; Shubin, Mikhail) Discreteness of spectrum and strict positivity criteria for magnetic Schrödinger operators. (English summary) **2005a:81069**
Korotyaev, E. L. *see* **Chelkak, Dmitri et al., 2005h:81120**
Koslover, D. A. *see* **Jitomirskaya, S. et al., 2005j:81057**
Kovařík, Hynek *see* **Borisov, Denis I. et al., 2005m:81090**
Kozitskiĭ, Yu. V. Gap estimates for double-well Schrödinger operators and quantum stabilization of anharmonic crystals. (English summary) **2005h:81125**
Krejčiřík, David (*with* Tiedra de Aldecoa, Rafael) The nature of the essential spectrum in curved quantum waveguides. (English summary) **2005f:81060**
Kretschmer, Ralph (*with* Szymanowski, Lech) The Hilbert-space structure of non-Hermitian theories with real spectra. (English summary) **2005d:81136**
— (*with* Szymanowski, Lech) Quasi-Hermiticity in infinite-dimensional Hilbert spaces. (English summary) **2005c:81058**
Krutikov, Denis Schrödinger operators with random sparse potentials. Existence of wave operators. (English summary) **2005d:81137**
Lakaev, S. N. (*with* Muminov, M. È.) Essential and discrete spectrum of the three-particle Schrödinger operator on a lattice. (Russian. Russian summary) **2005a:81070**
— *see also* **Abdullaev, Zh. I., 2005b:81035**
Langer, Heinz (*with* Tretter, Christiane) A Krein space approach to PT-symmetry. (English summary) **2005j:81058**

Laptev, Ari (*with* Naboko, Sergei N.; Safronov, Oleg) Absolutely continuous spectrum of Schrödinger operators with slowly decaying and oscillating potentials. (English summary) **2005h:81126**
Lemos, Rute Correia *see* **Bebiano, N. et al., 2005a:81065**
Lenz, Daniel Singular continuous spectrum for certain quasicrystal Schrödinger operators. (English summary) **2005f:81061**
— *see also* **Damanik, David, 2005b:81040**
Linde, Helmut *see* **Exner, Pavel et al., 2005i:81040**
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Loss, Michael *see* **Benguria, Rafael D., 2005f:81057**
Mahmoud, N. H. *see* **Chébli, Houcine, 2005h:81119**
Maioli, Marco (*with* Sacchetti, Andrea) Gevrey formal power series of Wannier-Stark ladders. (English summary) **2005c:81059**
Manoukian, E. B. *see* **Muthaporn, C., 2005e:81058**
Mardoyan, L. G. (*with* Nersesyan, A. P.; Petrosyan, M. G.) The Stark effect in the charge-dyon system. (Russian. Russian summary) **2005h:81127**
Mareš, Jiří *see* **Formánek, J. et al., 2005c:81055**
Maz'ya, Vladimir *see* **Kondrat'ev, Vladimir et al., 2005a:81069**
McCaw, James (*with* McKellar, B. H. J.) Pure point spectrum for the time evolution of a periodically rank-N kicked Hamiltonian. (English summary) **2005k:81071**
McKellar, B. H. J. *see* **McCaw, James, 2005k:81071**
Melgaard, Michael (*with* Ouhabaz, El Maati; Rozenblyum, G. V.) Negative discrete spectrum of perturbed multivortex Aharonov-Bohm Hamiltonians. (English summary) **2005f:81062**
— (*with* Ouhabaz, El Maati; Rozenblyum, G. V.) Erratum to: "Negative discrete spectrum of perturbed multivortex Aharonov-Bohm Hamiltonians" [Ann. Henri Poincaré **5** (2004), no. 5, 979–1012; MR2091985 (2005f:81062)]. **2005k:81072**
Meljanac, Stjepan (*with* Samsarov, Andjelo) Universal properties of conformal quantum many-body systems. (English summary) **2005k:81073**
Moldoveanu, V. *see* **Bentosela, François et al., 2005m:81089**
Møller, Jacob Schach (*with* Skibsted, Erik) Spectral theory of time-periodic many-body systems. (English summary) **2005g:81093**
Mostafazadeh, Ali Is pseudo-Hermitian quantum mechanics an indefinite-metric quantum theory? (English summary) **2005g:81094**
— $\mathcal{PT}$-symmetric quantum mechanics: a precise and consistent formulation. (English summary) **2005i:81041**
Muminov, M. Ė. *see* **Lakaev, S. N., 2005a:81070**
Muschietti, Maria Amelia *see* **Falomir, H. et al., 2005m:81093**
Muthaporn, C. (*with* Manoukian, E. B.) N^2 law for bosons in 2D. (English summary) **2005c:81058**
Naboko, Sergei N. *see* **Laptev, Ari et al., 2005h:81126**
Nenciu, Gheorghe *see* **Jensen, Arne[2], 2005c:81057** *and* **Bentosela, François et al., 2005m:81089**
Nersesyan, A. P. *see* **Mardoyan, L. G. et al., 2005h:81127**
Ouhabaz, El Maati *see* **Melgaard, Michael et al., 2005f:81062** *and* **2005k:81072**
Pankrashkin, Konstantin *see* **Brüning, Jochen et al., 2005c:81052** *and* **2005e:81053**
Petrosyan, M. G. *see* **Mardoyan, L. G. et al., 2005h:81127**
Pisani, P. A. G. *see* **Falomir, H. et al., 2005m:81093**
Pozharskiĭ, A. A. On the nature of the spectrum of the Stark-Wannier operator. (Russian. Russian summary) **2005e:81059**
Privault, Nicolas (*with* Zambrini, Jean-Claude) Euclidean quantum mechanics in the momentum representation. (English summary) **2005k:81074**
da Providência, João *see* **Bebiano, N. et al., 2005a:81065**
Pulé, Joseph V. *see* **Borg, J. L., 2005d:81129**
Pushnitski, A. *see* **Bruneau, Vincent et al., 2005h:81118**
Raïkov, George D. *see* **Combes, Jean-Michel et al., 2005g:81091**; **Fernández, Claudio, 2005g:81092** *and* **Bruneau, Vincent et al., 2005h:81118**
Richard, Serge (*with* Tiedra de Aldecoa, Rafael) On perturbations of Dirac operators with variable magnetic field of constant direction. (English summary) **2005m:81097**
Rozenblyum, G. V. *see* **Melgaard, Michael et al., 2005f:81062** *and* **2005k:81072**
Sacchetti, Andrea *see* **Maioli, Marco, 2005c:81059**
Safronov, Oleg *see* **Laptev, Ari et al., 2005h:81126**
Samoĭlenko, V. G. Some spectral properties of the energy operator for an infinite system in a magnetic field. (Russian. English and Ukrainian summaries) **2005c:81060**
Samsarov, Andjelo *see* **Meljanac, Stjepan, 2005k:81073**
Schmidt, Karl Michael *see* **Kalf, Hubert, 2005m:81095**
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Semenov, E. S. *see* **Al'beverio, S. et al., 2005c:81054**
Shubin, Mikhail *see* **Kondrat'ev, Vladimir et al., 2005a:81069**
Simon, Barry *see* **Gesztesy, Fritz, 2005e:81057**
Skibsted, Erik *see* **Møller, Jacob Schach, 2005g:81093**
Snyman, Izak *see* **Geyer, Hendrik B. et al., 2005h:81124**
Soffer, Avraham (*with* Weinstein, Michael I.) Selection of the ground state for nonlinear Schrödinger equations. (English summary) **2005g:81095**
Solovej, Jan Philip *see* **Erdős, László, 2005e:81056** *and* **2005f:81058**
Stoiciu, Mihai An estimate for the number of bound states of the Schrödinger operator in two dimensions. (English summary) **2005c:81061**
Stollmann, Peter *see* **Boutet de Monvel-Berthier, Anne-Marie et al., 2005b:81036** *and* **2005m:81091**
Stolz, Günter *see* **Boutet de Monvel-Berthier, Anne-Marie et al., 2005m:81091**
Sütő, András *see* **Damanik, David et al., 2005j:81056**
Szafraniec, Franciszek Hugon A characterization of the Hamiltonian. (English summary) **2005h:81128**
Szymanowski, Lech *see* **Kretschmer, Ralph, 2005c:81058** *and* **2005d:81136**
Takáč, Peter *see* **Alziary, Bénédicte et al., 2005d:81127**
Taşçi, Fatih *see* **Baïramogly, M. et al., 2005a:81064**
Tiedra de Aldecoa, Rafael *see* **Krejčiřík, David, 2005f:81060** *and* **Richard, Serge, 2005m:81097**
Tretter, Christiane *see* **Langer, Heinz, 2005j:81058**
Truman, Aubrey (*with* Zhao, Huai Zhong) Burgers equation and the WKB-Langer asymptotic L^2 approximation of eigenfunctions and their derivatives. (English summary) **2005e:81060**
Tsutsui, Izumi *see* **Fülöp, Tamás et al., 2005c:81056**
Uhlmann, Gunther *see* **Kang, Hyeonbae, 2005d:81135**
Wang, Qinghai Finite-dimensional $\mathcal{PT}$-symmetric Hamiltonians. (English summary) **2005f:81063**
Wang, Xue Ping[1] Asymptotic behavior of resolvent for N-body Schrödinger operators near a threshold. (English summary) **2005g:81096**
Weidl, Timo *see* **Exner, Pavel et al., 2005i:81040**
Weinstein, Michael I. *see* **Soffer, Avraham, 2005g:81095**
Wen, Zhi-Ying One-dimensional Moran sets and the spectrum of Schrödinger operators. (English summary) **2005k:81075**
Winternitz, Pavel *see* **Bérubé, Josée, 2005d:81128**
Yajima, Kenji Time-periodic Schrödinger equations.
Zamboni, Luca Q. *see* **Damanik, David, 2005b:81039**
Zambrini, Jean-Claude *see* **Privault, Nicolas, 2005k:81074**
Zeynalov, Djafar *see* **Baïramogly, M. et al., 2005a:81064**
Zhao, Huai Zhong *see* **Truman, Aubrey, 2005e:81060**
Zhislin, G. M. Spectral properties of Hamiltonians of charged systems in a homogeneous magnetic field. II. On the structure of a purely point spectrum. (Russian. Russian summary) **2005b:81041**
— Hamiltonians of pseudorelativistic atoms with finite mass nuclei: the structure of the discrete spectrum. (Russian) **2005i:81042**
Znojil, Miloslav Experiments in $\mathcal{PT}$-symmetric quantum mechanics. (English summary) **2005e:81061**
— Conservation of pseudo-norm in $\mathcal{PT}$-symmetric quantum mechanics. (English summary) **2005d:81138**

Items with secondary classifications in 81Q10

Agranovich, M. S. (*with* Rozenblyum, G. V.) Spectral boundary value problems for a Dirac system with singular potential. (Russian) **2005h:35254**
Al'beverio, S. (*with* Gesztesy, Fritz; Høegh-Krohn, R.; Holden, Helge) ★ Solvable models in quantum mechanics. **2005g:81001**
Amour, Laurent (*with* Grébert, Benoît; Guillot, Jean-Claude) L'électron habillé non relativiste dans un champ magnétique. (English and French summaries) [The dressed nonrelativistic electron in a magnetic field] **2005m:81340**
Arai, Asao Enhanced binding in a model of an abstract quantum system coupled to a multi-component Bose field. (English summary) **2005f:81133**
Araki, Huzihiro Introduction.
Barbaroux, Jean-Marie (*with* Chen, Thomas; Vugal'ter, S. A.) Binding conditions for atomic N-electron systems in non-relativistic QED. (English summary) **2005g:81348**
— (*with* Dimassi, Mouez; Guillot, Jean-Claude) Quantum electrodynamics of relativistic bound states with cutoffs. (English summary) **2005g:81349**
Beltiţă, Ingrid (*with* Cornean, Horia D.) On a theorem of Arne Persson. (English and Spanish summaries) **2005f:35053**
Bennewitz, Christer (*with* Evans, William Desmond) Inequalities associated with magnetic fields. (English summary) **2005f:26048**
Bentosela, François Scattering and spectral properties of two surface models. (English summary) **2005e:81258**
Berkolaïko, G. M. (*with* Keating, Jonathan P.; Winn, Brian) No quantum ergodicity for star graphs. (English summary) **2005k:81085**
Blasi, Alberto (*with* Scolarici, Giuseppe; Solombrino, L.) Alternative descriptions in quaternionic quantum mechanics. (English summary) **2005m:81125**
Bouclet, Jean-Marc Spectral distributions for long range perturbations. (English summary) **2005f:47032**
— (*with* Germinet, François; Klein, Abel) Sub-exponential decay of operator kernels for functions of generalized Schrödinger operators. (English summary) **2005c:35059**
Bourgain, Jean Recent progress in quasi-periodic lattice Schrödinger operators and Hamiltonian partial differential equations. (Russian. Russian summary) **2005b:47070**
— ★ Green's function estimates for lattice Schrödinger operators and applications. **2005j:35184**
Bourget, Olivier Singular continuous Floquet operator for periodic quantum systems. (English summary) **2005j:47077**
Brasche, J. Spectral theory for self-adjoint extensions. **2005h:47043**
Briet, Philippe (*with* Cornean, Horia D.; Zagrebnov, Valentin A.) Do bosons condense in a homogeneous magnetic field? (English summary) **2005m:82007**
Broderix, Kurt (*with* Leschke, Hajo; Müller, Peter[4]) Continuous integral kernels for unbounded Schrödinger semigroups and their spectral projections. (English summary) **2005c:47063**
Brummelhuis, Raymond (*with* Ruskai, Mary Beth) One-dimensional models for atoms in strong magnetic fields. II. Anti-symmetry in the Landau levels. (English summary) **2005e:81267**
Carles, Rémi (*with* Nakamura, Yoshihisa) Nonlinear Schrödinger equations with Stark potential. (English summary) **2005m:35276**
Carlson, Robert Spectral theory and spectral gaps for periodic Schrödinger operators on product graphs. (English summary) **2005a:47078**
Carron, Gilles (*with* Exner, Pavel; Krejčiřík, David) Topologically nontrivial quantum layers. (English summary) **2005b:58046**
Catto, Isabelle (*with* Exner, Pavel; Hainzl, Christian) Enhanced binding revisited for a spinless particle in nonrelativistic QED. (English summary) **2005g:81350**
Chandelier, F. (*with* Georgelin, Y.; Masson, Thierry; Wallet, J. C.) Quantum Hall conductivity in a Landau type model with a realistic geometry. II. (English summary) **2005m:81351**
Chelkak, Dmitri (*with* Kargaev, Pavel; Korotyaev, E. L.) Inverse problem for harmonic oscillator perturbed by potential. (English summary) **2005c:34018**
Chen, Thomas *see* **Barbaroux, Jean-Marie et al., 2005g:81348**
Cheremshantsev, S. E. Dynamical analysis of Schrödinger operators with growing sparse potentials. (English summary) **2005f:47074**
Chuburin, Yu. P. On levels of a weakly perturbed periodic Schrödinger operator. (English

summary) **2005j:35030**

Combes, Jean-Michel (*with* Gralak, B.; Tip, A.) Spectral properties of absorptive photonic crystals. (English summary) (*see* **2004j:00029**)

Cornean, Horia D. *see* **Beltiţă, Ingrid, 2005f:35053** *and* **Briet, Philippe et al., 2005m:82007**

Damanik, David (*with* Hundertmark, Dirk) Reflection symmetries and absence of eigenvalues for one-dimensional Schrödinger operators. (English summary) **2005b:34180**

Datta, Sandip (*with* Jäger, Tobias H.; Keller, Gerhard; Ramaswamy, Ramakrishna) On the dynamics of the critical Harper map. (English summary) **2005g:47052**

Denisov, S. A. On the existence of wave operators for some Dirac operators with square summable potential. (English summary) **2005h:47019**

— Absolutely continuous spectrum of multidimensional Schrödinger operator. **2005h:35047**

— (*with* Kupin, Stanislav) On the singular spectrum of Schrödinger operators with decaying potential. (English summary) **2005j:34118**

Derkach, Vladimir (*with* Hassi, Seppo; De Snoo, Henk) Singular perturbations of self-adjoint operators. (English summary) **2005i:47019**

De Snoo, Henk *see* **Derkach, Vladimir et al., 2005i:47019**

van Diejen, Jan F. On the Plancherel formula for the (discrete) Laplacian in a Weyl chamber with repulsive boundary conditions at the walls. (English summary) **2005a:81090**

Dimassi, Mouez (*with* Zerzeri, Maher) A local trace formula for resonances of perturbed periodic Schrödinger operators. (English summary) **2005a:35056**

— (*with* Petkov, Vesselin) Spectral shift function and resonances for non-semi-bounded and Stark Hamiltonians. (English and French summaries) **2005a:47021**

— (*with* Guillot, Jean-Claude; Ralston, James) On effective Hamiltonians for adiabatic perturbations of magnetic Schrödinger operators. (English summary) **2005i:81043**

— *see also* **Barbaroux, Jean-Marie et al., 2005g:81349**

Dolbeault, Jean (*with* Esteban, Maria J.; Loss, Michael; Vega, Luis) An analytical proof of Hardy-like inequalities related to the Dirac operator. (English summary) **2005h:35291**

Esteban, Maria J. *see* **Dolbeault, Jean et al., 2005h:35291**

Evans, Lawrence C. Towards a quantum analog of weak KAM theory. (English summary) **2005c:81063**

Evans, William Desmond *see* **Bennewitz, Christer, 2005f:26048**

Exner, Pavel (*with* Kondej, S.) Strong-coupling asymptotic expansion for Schrödinger operators with a singular interaction supported by a curve in $\mathbb{R}^3$. (English summary) **2005e:35040**

— *see also* **Carron, Gilles et al., 2005b:58046**; **Al′beverio, S. et al., 2005g:81001** *and* **Catto, Isabelle et al., 2005g:81350**

Fedotov, Aleksandr A. (*with* Klopp, Frédéric) The spectral theory of adiabatic quasi-periodic operators on the real line. (English summary) **2005d:34115**

— (*with* Klopp, Frédéric) On the singular spectrum for adiabatic quasi-periodic Schrödinger operators on the real line. (English and French summaries) **2005j:34119**

Fei, Shao Ming Exactly solvable many-body systems and pseudo-Hermitian point interactions. (English summary) **2005d:81370**

Ferrari, Christian (*with* Macris, Nicolas) Spectral properties of finite quantum Hall systems. (English summary) **2005h:82058**

Filonov, N. (*with* Klopp, Frédéric) Absolute continuity of the spectrum of a Schrödinger operator with a potential which is periodic in some directions and decays in others. (English summary) **2005i:35045a**

— (*with* Klopp, Frédéric) Erratum to: "Absolute continuity of the spectrum of a Schrödinger operator with a potential which is periodic in some directions and decays in others" [Doc. Math. **9** (2004), 107–121; MR2054982 (2005i:35045a)]. (English summary) **2005i:35045b**

Fournais, Søren Confinement to lowest Landau band and application to quantum current. (English summary) **2005a:81268**

Gadyl′shin, R. R. On local perturbations of the Schrödinger operator on the plane. (Russian. Russian summary) **2005g:35045**

Gavrilov, S. P. (*with* Gitman, D. M.; Smirnov, Andrei A.; Voronov, B. L.) Dirac fermions in a magnetic-solenoid field. (English summary) **2005h:81110**

Gentile, Guido Pure point spectrum for two-level systems in a strong quasi-periodic field. (English summary) **2005m:81352**

Georgelin, Y. *see* **Chandelier, F. et al., 2005m:81351**

Georgescu, Vladimir (*with* Iftimovici, Andrei) C^*-algebras of quantum Hamiltonians. (English summary) **2005e:46133**

— (*with* Gérard, Christian; Møller, Jacob Schach) Spectral theory of massless Pauli-Fierz models. (English summary) **2005h:81205**

— (*with* Gérard, Christian; Møller, Jacob Schach) Commutators, C_0-semigroups and resolvent estimates. (English summary) **2005h:47044**

Gérard, Christian *see* **Georgescu, Vladimir et al., 2005h:47044** *and* **2005h:81205**

Germinet, François *see* **Bouclet, Jean-Marc et al., 2005c:35059**

Gesztesy, Fritz *see* **Al′beverio, S. et al., 2005g:81001**

Ginibre, J. (*with* Velo, G.) Long range scattering and modified wave operators for the wave-Schrödinger system. II. (English summary) **2005f:81276**

Gitman, D. M. *see* **Gavrilov, S. P. et al., 2005h:81110**

Goldberg, Michael Joseph (*with* Schlag, Wilhelm) Dispersive estimates for Schrödinger operators in dimensions one and three. (English summary) **2005g:81339**

Gralak, B. *see* **Combes, Jean-Michel et al., (2004j:00029)**

Grébert, Benoît *see* **Amour, Laurent et al., 2005m:81340**

Guillot, Jean-Claude *see* **Barbaroux, Jean-Marie et al., 2005g:81349**; **Dimassi, Mouez et al., 2005i:81043** *and* **Amour, Laurent et al., 2005m:81340**

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Hall, Richard L. *see* **von Keviczky, Attila B. et al., 2005i:34117**

Hassi, Seppo *see* **Derkach, Vladimir et al., 2005i:47019**

Helffer, Bernard (*with* Hoffmann-Ostenhof, Thomas) Spectral theory for periodic Schrödinger operators with reflection symmetries. (English summary) **2005e:35041**

— (*with* Nier, Francis) Criteria to the Poincaré inequality associated with Dirichlet forms in $\mathbb{R}^d$, $d \geq 2$. **2005c:47070**

Hinz, Andreas M. Topics from spectral theory of differential operators. **2005f:35055**

Hiroshima, Fumio Analysis of ground states of atoms interacting with a quantized radiation field. (English summary)

Hitrik, Michael Boundary spectral behavior for semiclassical operators in dimension one. **2005m:35206**

Høegh-Krohn, R. *see* **Al′beverio, S. et al., 2005g:81001**

Hoffmann-Ostenhof, Thomas *see* **Helffer, Bernard, 2005e:35041**

Holden, Helge *see* **Al′beverio, S. et al., 2005g:81001**

Hundertmark, Dirk (*with* Simon, Barry) A diamagnetic inequality for semigroup differences. (English summary) **2005d:47078**

— *see also* **Damanik, David, 2005b:34180**

Iftimie, Viorel Uniqueness and existence of the integrated density of states for Schrödinger operators with magnetic field and electric potential with singular negative part. (English summary) **2005m:35062**

Iftimovici, Andrei *see* **Georgescu, Vladimir, 2005e:46133**

Jäger, Tobias H. *see* **Datta, Sandip et al., 2005g:47052**

Kadiev, R. I., Jr. Investigation of the spectral characteristics of the one-dimensional Schrödinger operator with a potential having δ and δ' interactions. (Russian) **2005a:34121**

Kargaev, Pavel *see* **Chelkak, Dmitri et al., 2005c:34018**

Karpeshina, Yu. E. Asymptotic formulas for eigenvalues and eigenfunctions of periodic magnetic Schrödinger operators. (English summary) **2005d:35219**

Kashaev, R. M. On selfadjoint extensions of a difference operator. (Russian) **2005m:47067**

Keating, Jonathan P. *see* **Berkolaïko, G. M. et al., 2005k:81085**

Kellendonk, Johannes Topological quantization of boundary forces and the integrated density of states. (English summary) **2005b:82044**

Keller, Gerhard *see* **Datta, Sandip et al., 2005g:47052**

von Keviczky, Attila B. (*with* Saad, Nasser; Hall, Richard L.) Friedrichs extensions of Schrödinger operators with singular potentials. (English summary) **2005i:34117**

Kirsch, Werner (*with* Veselić, Ivan) Existence of the density of states for one-dimensional alloy-type potentials with small support. (English summary) **2005c:82045**

Kiselev, Alexander Imbedded singular continuous spectrum for Schrödinger operators. **2005m:34203**

Klein, Abel *see* **Bouclet, Jean-Marc et al., 2005c:35059**

Klein, Silvius[2] Anderson localization for the discrete one-dimensional quasi-periodic Schrödinger operator with potential defined by a Gevrey-class function. (English summary) **2005m:82070**

Klopp, Frédéric (*with* Wolff, Thomas H.) Lifshitz tails for 2-dimensional random Schrödinger operators. (English summary) **2005c:82046**

— *see also* **Fedotov, Aleksandr A., 2005d:34115**; **2005j:34119**; **Filonov, N., 2005i:35045a** *and* **2005i:35045b**

Kondej, S. *see* **Exner, Pavel, 2005e:35040**

Kondrat′ev, Yu. G. (*with* Kozitskiĭ, Yu. V.) Quantum stabilization and decay of correlations in anharmonic crystals. (English summary) **2005a:82018**

Korostil′, A. M. (*with* Korostil, Igor A.) On calculation of finite-gap spectra for one-dimensional Schrödinger operator. (English summary) **2005e:34259**

Korostil, Igor A. *see* **Korostil′, A. M., 2005e:34259**

Korotyaev, E. L. *see* **Chelkak, Dmitri et al., 2005c:34018**

Kostrykin, Vadim (*with* Schrader, Robert) A random necklace model. (English summary) **2005b:81225**

Kozitskiĭ, Yu. V. *see* **Kondrat′ev, Yu. G., 2005a:82018**

Krejčiřík, David *see* **Carron, Gilles et al., 2005b:58046**

Kuchment, Peter On some spectral problems of mathematical physics. (English summary) **2005f:35227**

Kupin, Stanislav *see* **Denisov, S. A., 2005j:34118**

Kurasov, Pavel Singular and supersingular perturbations: Hilbert space methods. (English summary) **2005d:47028**

Lakaev, S. N. (*with* Muminov, Z. È.) Asymptotics of the number of eigenvalues of a three-particle Schrödinger operator on a lattice. (Russian) **2005h:82022**

Leschke, Hajo *see* **Broderix, Kurt et al., 2005c:47063**

Lieb, Elliott H. (*with* Loss, Michael) Existence of atoms and molecules in non-relativistic quantum electrodynamics. (English summary) **2005e:81268**

Loss, Michael *see* **Lieb, Elliott H., 2005e:81268** *and* **Dolbeault, Jean et al., 2005h:35291**

Macris, Nicolas *see* **Ferrari, Christian, 2005h:82058**

Măntoiu, Marius C^*-algebras, dynamical systems, spectral analysis. (English summary) **2005a:46143**

Martin, Mathieu[1] Spectral analysis of one-dimensional Dirac operators with slowly decreasing potentials. (English summary) **2005f:34249**

Martinez, André (*with* Nakamura, Shu; Sordoni, Vania) An application of phase space tunneling to multistate scattering theory. (English summary)

Masson, Thierry *see* **Chandelier, F. et al., 2005m:81351**

Maz′ya, Vladimir (*with* Verbitskiĭ, I. È.) The form boundedness criterion for the relativistic Schrödinger operator. (English and French summaries) **2005g:35288**

Molchanov, Stanislav Alekseevich (*with* Vainberg, B.) Schrödinger operators with matrix potentials. Transition from the absolutely continuous to the singular spectrum. (English summary) **2005g:47093**

Møller, Jacob Schach *see* **Georgescu, Vladimir et al., 2005h:47044** *and* **2005h:81205**

Morame, Abderemane (*with* Truc, Françoise) Remarks on the spectrum of the Neumann problem with magnetic field in the half-space. (English summary) **2005i:82065**

Müller, Peter[4] *see* **Broderix, Kurt et al., 2005c:47063**

Muminov, Z. È. *see* **Lakaev, S. N., 2005h:82022**

Nagao, Takeyuki On the flux-across-surfaces theorem for short-range potentials. (English summary) **2005e:81253**

Nakamura, Shu *see* **Martinez, André et al.**

Nakamura, Yoshihisa *see* **Carles, Rémi, 2005m:35276**

Nier, Francis *see* **Helffer, Bernard, 2005c:47070**

Parmeggiani, Alberto On the spectrum and the lowest eigenvalue of certain non-commutative harmonic oscillators. (English summary) **2005j:34113**

Pavlov, Boris S. (*with* Robert, Kieran) Resonance optical switch: calculation of resonance eigenvalues. (English summary) **2005b:35214**

Petkov, Vesselin *see* **Dimassi, Mouez, 2005a:47021**

Petrina, Dmitro Yakovlevich BCS model Hamiltonian of the theory of superconductivity as a quadratic form. (English and Ukrainian summaries) **2005m:82164**

Rabinovich, Vladimir S. Exponential estimates for eigenfunctions of Schrödinger operators

with rapidly increasing and discontinuous potentials. (English summary) **2005h:35050**
Ralston, James *see* **Dimassi, Mouez et al., 2005i:81043**
Ramaswamy, Ramakrishna *see* **Datta, Sandip et al., 2005g:47052**
Reznikova, A. Ya. Limit theorems for the spectra of 1D random Schrödinger operator. (English summary) **2005h:60196**
Richard, Serge Spectral and scattering theory for Schrödinger operators with Cartesian anisotropy. (English summary) **2005i:35047**
Riedel, Norbert The spectrum of a class of almost periodic operators. (English summary) **2005a:47053**
— Exponentially decaying eigenvectors for certain almost periodic operators. (English summary) **2005h:47062**
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Robert, Kieran *see* **Pavlov, Boris S., 2005b:35214**
Robnik, Marko (*with* Romanovskiĭ, V. G.) Two-dimensional hydrogen atom in a strong magnetic field. (English summary) **2005b:81230**
Rodnianski, Igor (*with* Schlag, Wilhelm; Soffer, Avraham) Dispersive analysis of charge transfer models. (English summary) **2005i:81181**
Romanovskiĭ, V. G. *see* **Robnik, Marko, 2005b:81230**
Rozenblyum, G. V. (*with* Tashchiyan, G.) Riesz L_p summability of spectral expansions related to the Schrödinger operator with constant magnetic field. (English summary) **2005f:35265**
— *see also* **Agranovich, M. S., 2005h:35254**
Ruskai, Mary Beth *see* **Brummelhuis, Raymond, 2005e:81267**
Rybkin, A. V. On the absolutely continuous and negative discrete spectra of Schrödinger operators on the line with locally integrable globally square summable potentials. (English summary) **2005e:34261**
Saad, Nasser *see* **von Keviczky, Attila B. et al., 2005i:34117**
Safronov, Oleg The amount of discrete spectrum of a perturbed periodic Schrödinger operator inside a fixed interval (λ_1, λ_2). **2005b:35207**
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Schrader, Robert *see* **Kostrykin, Vadim, 2005b:81225**
Scolarici, Giuseppe *see* **Blasi, Alberto et al., 2005m:81125**
Shterenberg, Roman G. Absolute continuity of the spectrum of the two-dimensional magnetic periodic Schrödinger operator with positive electric potential. (English summary) **2005d:35185**
— Absolute continuity of the spectrum of the two-dimensional periodic Schrödinger operator with strongly subordinate magnetic potential. (Russian. English and Russian summaries) **2005c:35217**
— An example of a periodic magnetic Schrödinger operator with a degenerate lower edge of the spectrum. (Russian. Russian summary) **2005d:35220**
Shvedov, Oleg Yu. Approximations for strongly singular evolution equations. (English summary) **2005c:47028**
Simon, Barry Ratio asymptotics and weak asymptotic measures for orthogonal polynomials on the real line. (English summary) **2005e:42078**
— *see also* **Hundertmark, Dirk, 2005d:47078**
Skriganov, M. M. (*with* Sobolev, Aleksandr Vladimirovich[2]) Asymptotic estimates for spectral bands of periodic Schrödinger operators. (Russian. Russian summary) **2005m:35205**
Smirnov, Andrei A. *see* **Gavrilov, S. P. et al., 2005h:81110**
Sobolev, Aleksandr Vladimirovich[2] *see* **Skriganov, M. M., 2005m:35205**
Soffer, Avraham *see* **Rodnianski, Igor et al., 2005i:81181**
Solombrino, L. *see* **Blasi, Alberto et al., 2005m:81125**
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Weickert, Brendan Spectral properties and dynamics of quantized Henon maps. (English summary) **2005h:37100**
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Items listed otherwise than by author
Annals of Mathematics Studies *see* **Bourgain, Jean, 2005j:35184**

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Alvarez, Gabriel (*with* Sundaram, Bala) Perturbation theory for the Stark effect in a double δ quantum well. (English summary) **2005f:81064**
Amore, Paolo (*with* Aranda, Alfredo; De Pace, Arturo; López, Jorge A.) Comparative study of quantum anharmonic potentials. (English summary) **2005f:81065**
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Barata, J. C. A. (*with* Cortez, D. A.) Perturbative analysis of dynamical localization. (English summary) **2005d:81139**
Bentaiba, M. (*with* Yahiaoui, S. A.; Chetouani, L.) Variational perturbation theory for complex cubic potentials. (English summary) **2005d:81140**
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Bhattacharyya, Kamal *see* **Bandyopadhyay, S. K. et al., 2005m:81098**
Bíla, Hynek $1/L$ expansions for a class of $\mathscr{PT}$-symmetric potentials. (English summary)
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— Real spectra of $\mathscr{PT}$-symmetric operators and perturbation theory. (English summary) **2005g:81097**
— (*with* Graffi, Sandro) Canonical expansion of $\mathscr{PT}$-symmetric operators and perturbation theory. (English summary) **2005f:81066**
— (*with* Graffi, Sandro; Sjöstrand, Johannes) Spectra of PT-symmetric operators and perturbation theory. (English summary) **2005k:81076**
Chair, Noureddine (*with* Dalabeeh, Mohammad A.) The noncommutative quadratic Stark effect for the H-atom. (English summary) **2005j:81059**
Chetouani, L. *see* **Bentaiba, M. et al., 2005d:81140**
(Čížek, Jiří Karel) *see* **Weniger, Ernst Joachim, 2005d:81146**
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De Pace, Arturo *see* **Amore, Paolo et al., 2005f:81065**
Dereziński, Jan (*with* Früboes, Rafal) Level shift operator and second order perturbation theory. (English summary) **2005k:81077**
Dimassi, Mouez (*with* Guillot, Jean-Claude; Ralston, James) On effective Hamiltonians for adiabatic perturbations of magnetic Schrödinger operators. (English summary) **2005i:81043**
— (*with* Guillot, Jean-Claude; Ralston, James) On effective Hamiltonians for adiabatic perturbations. (English summary) **2005k:81078**
Dunn, Martin *see* **McKinney, B. A. et al., 2005b:81042**
Frasca, Marco Strong coupling perturbation theory in quantum mechanics. (English summary) **2005g:81099**
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Grosjean, Alain *see* **Killingbeck, John P. et al.**
Grypeos, M. E. (*with* Koutroulos, C. G.; Oyewumi, K. J.; Petridou, Th.) The HVT technique and the "uncertainty" relation for central potentials. (English summary) **2005d:81141**
Guillot, Jean-Claude *see* **Dimassi, Mouez et al., 2005i:81043** *and* **2005k:81078**
Gupta, Pritha *see* **Marmorino, M. G., 2005d:81143**
Harney, H. L. (*with* Heiss, W. Dieter) Time reversal and exceptional points. (English summary) **2005f:81067**
Heiss, W. Dieter *see* **Harney, H. L., 2005f:81067**
Ivanov, I. A. Transformation of the asymptotic perturbation expansion for the anharmonic oscillator into a convergent expansion. (English summary) **2005d:81142**
Jentschura, Ulrich D. (*with* Zinn-Justin, Jean) Instantons in quantum mechanics and resurgent expansions. (English summary) **2005k:81079**
— *see also* **Zinn-Justin, Jean, 2005m:81100** *and* **2005m:81101**
Jolicard, Georges *see* **Killingbeck, John P. et al.**
Karatsuba, E. A. (*with* Moretti, Paolo) Inversion time of large spins. (English summary) **2005m:81099**
Killingbeck, John P. (*with* Grosjean, Alain; Jolicard, Georges) Complex variable HVPT. Addendum to: "Hypervirial perturbation theory revisited" [J. Phys. A **34** (2001), no. 40, 8309–8320; MR1873186]. (English summary)
Koutroulos, C. G. *see* **Grypeos, M. E. et al., 2005d:81141**
Loeser, J. G. *see* **McKinney, B. A. et al., 2005b:81042**
López, Jorge A. *see* **Amore, Paolo et al., 2005f:81065**
Marmorino, M. G. (*with* Gupta, Pritha) Surpassing the Temple lower bound. (English summary) **2005d:81143**
McKinney, B. A. (*with* Dunn, Martin; Watson, Deborah K.; Loeser, J. G.) N identical particles under quantum confinement: a many-body dimensional perturbation theory approach. (English summary) **2005b:81042**
Merzon, A. *see* **Zhevandrov, Peter N., 2005c:81062**
Moretti, Paolo *see* **Karatsuba, E. A., 2005m:81099**
Moukouri, S. A matrix Kato-Bloch perturbation method for Hamiltonian systems. (English summary) **2005d:81144**
Nenciu, Gheorghe Convergent perturbation theory for Zeeman effect. (English and Romanian summaries)
— Almost invariant subspaces for quantum evolutions. (English summary) **2005g:81100**

Obert, Teodor *see* **Teleki, Aba**
Oyewumi, K. J. *see* **Grypeos, M. E. et al., 2005d:81141**
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(Skála, L.) *see* **Weniger, Ernst Joachim, 2005d:81146**
Sundaram, Bala *see* **Alvarez, Gabriel, 2005f:81064**
Teleki, Aba (*with* Obert, Teodor) Evaluation of the 3rd order perturbations for the degenerate cases. (English summary)
Turbiner, A. V. Perturbations of integrable systems and Dyson-Mehta integrals. (English summary) **2005i:81044**
Vittot, Michel Perturbation theory and control in classical or quantum mechanics by an inversion formula. (English summary) **2005d:81145**
Watson, Deborah K. *see* **McKinney, B. A. et al., 2005b:81042**
Weniger, Ernst Joachim Mathematical properties of a new Levin-type sequence transformation introduced by Čížek, Zamastil, and Skála. I. Algebraic theory. (English summary) **2005d:81146**
Yahiaoui, S. A. *see* **Bentaiba, M. et al., 2005d:81140**
(Zamastil, J.) *see* **Weniger, Ernst Joachim, 2005d:81146**
Zhevandrov, Peter N. (*with* Merzon, A.) Asymptotics of eigenfunctions in shallow potential wells and related problems. (English summary) **2005c:81062**
Zinn-Justin, Jean (*with* Jentschura, Ulrich D.) Multi-instantons and exact results. I. Conjectures, WKB expansions, and instanton interactions. (English summary) **2005m:81100**
— (*with* Jentschura, Ulrich D.) Multi-instantons and exact results. II. Specific cases, higher-order effects, and numerical calculations. (English summary) **2005m:81101**
— *see also* **Jentschura, Ulrich D., 2005k:81079**
Znojil, Miloslav Partial sums and optimal shifts in shifted large-l perturbation expansions. (English summary) **2005k:81080**

Items with secondary classifications in 81Q15

Al'beverio, S. (*with* Kuzhel, Sergei) Pseudo-Hermiticity and theory of singular perturbations. (English summary) **2005f:47031**
Antoniou, Ioannis E. *see* **Pavlov, Boris S., 2005m:47029**
Bandrauk, André D. (*with* Lu, Hui-Zhong) Numerical methods for molecular time-dependent Schrödinger equations—bridging the perturbative to nonperturbative regime. (*see* **2005c:81001**)
Chelkak, Dmitri Approximation in the space of spectral data of a perturbed harmonic oscillator. (English summary) **2005d:81130**
Dereziński, Jan (*with* Jakšić, Vojkan) On the nature of Fermi golden rule for open quantum systems. (English summary) **2005m:82092**
Derkach, Vladimir (*with* Hassi, Seppo; De Snoo, Henk) Singular perturbations of self-adjoint operators. (English summary) **2005i:47019**
— (*with* Hassi, Seppo; De Snoo, Henk) Singular perturbations as range perturbations in a Pontryagin space. (English summary) **2005g:47016**
De Snoo, Henk *see* **Derkach, Vladimir et al., 2005g:47016** *and* **2005i:47019**
Dorlas, Teunis C. (*with* Pulé, Joseph V.) Invariant measures for one-dimensional Anderson localisation. (English summary) **2005h:82057**
Ferrari, Christian (*with* Kovařík, Hynek) Resonance width in crossed electric and magnetic field. (English summary) **2005h:81430**
Figari, Rodolfo (*with* Teta, Alessandro) A one-dimensional model for ionization induced by scattering with a heavy particle. (English summary) **2005m:81339**
Gadyl'shin, R. R. On local perturbations of the Schrödinger operator on the plane. (Russian. Russian summary) **2005g:35045**
Geyer, Hendrik B. (*with* Scholtz, Frederik G.; Snyman, Izak) Quasi-Hermiticity and the role of a metric in some boson Hamiltonians. (English summary) **2005h:81124**
Giachetti, Riccardo (*with* Sorace, E.) Two fermion relativistic bound states. (English summary) **2005h:81146**
Grosjean, Alain *see* **Killingbeck, John P. et al., 2005i:65054**
Hagedorn, George A. (*with* Joye, Alain) Time development of exponentially small non-adiabatic transitions. (English summary) **2005k:81063**
Hassi, Seppo *see* **Derkach, Vladimir et al., 2005g:47016** *and* **2005i:47019**
Huseynbayova, Almas M. Investigation of the existence conditions and finding the number of stationary states of quantum mechanical particles in the narrow deep potential pit. (English summary) **2005j:81053**
Jakšić, Vojkan *see* **Dereziński, Jan, 2005m:82092**
Jensen, Arne² (*with* Nenciu, Gheorghe) Erratum: "A unified approach to resolvent expansions at thresholds" [Rev. Math. Phys. **13** (2001), no. 6, 717–754; MR1841744 (2002e:81031)]. **2005c:81057**
Jilcott, Steven W., Jr. The AC Stark effect and the time-dependent Born-Oppenheimer approximation. (English summary) **2005c:81253**
Jolicard, Georges *see* **Killingbeck, John P. et al., 2005i:65054**
Joye, Alain *see* **Hagedorn, George A., 2005k:81063**
Killingbeck, John P. (*with* Grosjean, Alain; Jolicard, Georges) A simple method for complex eigenvalues. (English summary) **2005i:65054**
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Lu, Hui-Zhong *see* **Bandrauk, André D., (2005c:81001)**
Mardoyan, L. G. (*with* Nersesyan, A. P.; Petrosyan, M. G.) The Stark effect in the charge-dyon system. (Russian. Russian summary) **2005h:81127**
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McKellar, B. H. J. *see* **McCaw, James, 2005k:81071**
Nenciu, Gheorghe *see* **Jensen, Arne², 2005c:81057**
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Orenstien, Meir *see* **Zoubi, Hashem et al., (2005d:82080)**
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Shavgulidze, E. T. *see* **Smolyanov, O. G., 2005a:81126**
Smolyanov, O. G. (*with* Shavgulidze, E. T.) Feynman formulas for solutions of infinite-dimensional Schrödinger equations with polynomial potentials. (Russian) **2005a:81126**
Snyman, Izak *see* **Geyer, Hendrik B. et al., 2005h:81124**
Sorace, E. *see* **Giachetti, Riccardo, 2005h:81146**
Teta, Alessandro *see* **Figari, Rodolfo, 2005m:81339**
Veselić, Ivan Integrated density of states and Wegner estimates for random Schrödinger operators. (English summary) **2005b:82048**
Zoubi, Hashem (*with* Orenstien, Meir; Ron, Amiram) The factorization approximation for the master equation. (English summary) **2005d:82080**

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Adachi, Satoshi *see* **Hyouguchi, Tadanori et al., 2005c:81064**
Aida, Shigeki Semiclassical limit of the lowest eigenvalue of a Schrödinger operator on a Wiener space. (English summary) **2005i:81045**
Anné, Colette (*with* Charbonnel, Anne-Marie) Bohr-Sommerfeld conditions for several commuting Hamiltonians. (English and Spanish summaries) **2005g:81101**
Aramaki, Junichi Semiclassical asymptotics of the trace of the heat kernel for the Schrödinger operator with a degenerate potential. (English summary) **2005k:81081**
Atilgan, Erdinç *see* **Main, Jörg et al., 2005e:81065**
Bambusi, D. Semiclassical normal forms. (English summary) **2005f:81068**
Belov, V. V. (*with* Dobrokhotov, S. Yu.; Sinitsyn, S. O.; Tudorovskiĭ, T. Ya.) Quasiclassical approximation and the canonical Maslov operator for nonrelativistic equations of quantum mechanics in nanotubes. (Russian) **2005e:81063**
Bencheikh, K. (*with* Berkane, K.; Bouizane, S.) The extended Thomas-Fermi kinetic energy density functional with position-dependent effective mass in one dimension. (English summary) **2005f:81069**
Berkane, K. *see* **Bencheikh, K. et al., 2005f:81069**
Bolte, Jens (*with* Glaser, Rainer) Zitterbewegung and semiclassical observables for the Dirac equation. (English summary) **2005e:81064**
Bouizane, S. *see* **Bencheikh, K. et al., 2005f:81069**
Bourouaine, S. Dirac particle in a plane wave field and the semi-classical approximation. (English summary) **2005m:81102**
Brack, Matthias *see* **Pletyukhov, Mikhail, 2005h:81133**
Carles, Rémi (*with* Markowich, Peter A.; Sparber, Christof) Semiclassical asymptotics for weakly nonlinear Bloch waves. (English summary) **2005m:81103**
Cassanas, Roch A Gutzwiller type formula for a reduced Hamiltonian within the framework of symmetry. (English and French summaries) **2005h:81129**
Chalupka, S. *see* **Rubish, Vasyl' V. et al., 2005g:81104**
Charbonnel, Anne-Marie *see* **Anné, Colette, 2005g:81101**
Choi, Jeong-Ryeol WKB wave function of the general time-dependent quadratic Hamiltonian system. (English summary)
Coffey, Mark W. Asymptotic relation for the quantum entropy of momentum in energy eigenstates. (English summary) **2005d:81147**
Creagh, Stephen C. Classical transition states in quantum theory. (English summary) **2005f:81070**
Dobrokhotov, S. Yu. *see* **Belov, V. V. et al., 2005e:81063**
Dorey, Patrick (*with* Millican-Slater, Adam; Tateo, Roberto) Beyond the WKB approximation in $\mathcal{PT}$-symmetric quantum mechanics. (English summary) **2005m:81104**
Evans, Lawrence C. Towards a quantum analog of weak KAM theory. (English summary) **2005c:81063**
Fermanian Kammerer, Clotilde (*with* Gérard, Patrick) A Landau-Zener formula for two-scaled Wigner measures. (English summary) **2005g:81102**
— (*with* Gérard, Patrick) Two-scale Wigner measures and the Landau-Zener formulas. (*see* **2005c:81007**)
— Semiclassical analysis of generic codimension 3 crossings. **2005h:81130**
Fonseca Romero, K. M. (*with* Nemes, M. C.; Peixoto de Faria, J. G.; de Toledo Piza, A. F. R.) Sensitivity to initial conditions in quantum dynamics: an analytical semiclassical expansion. (English summary) **2005j:81060**
Friedrich, Harald (*with* Trost, Johannes) Working with WKB waves far from the semiclassical limit. (English summary) **2005a:81072**
Fujiié, Setsuro (*with* Zerzeri, Maher) Bohr-Sommerfeld quantization condition derived by a microlocal WKB method. (English summary) **2005k:81082**
Gérard, Patrick *see* **Fermanian Kammerer, Clotilde, 2005g:81102** *and* (**2005c:81007**)
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Glaser, Rainer *see* **Bolte, Jens, 2005e:81064**
de Gosson, Maurice A. Semiclassical wavefunctions and Schrödinger equation. (English summary) **2005d:81148**
Haro, Jaume The Schwinger formula revisited. II. A mathematical treatment. (English summary) **2005h:81131**
— Study of the behavior of quantum dynamics as $\hbar \to 0$. (Spanish. English and Spanish summaries) **2005f:81071**
Hasan, Eyad H. (*with* Rabei, Eqab M.; Ghassib, Humam B.) Quantization of higher-order constrained Lagrangian systems using the WKB approximation. (English summary) **2005g:81103**
Hyouguchi, Tadanori (*with* Seto, Ryohei; Ueda, Masahito; Adachi, Satoshi) Divergence-free WKB theory. (English summary) **2005c:81064**
Jecko, Thierry Non-trapping condition for semiclassical Schrödinger operators with matrix-valued potentials. (English summary) **2005m:81105**
Jin, Shi (*with* Liu, Hailiang; Osher, Stanley; Tsai, Yen-Hsi Richard) Computing multivalued physical observables for the semiclassical limit of the Schrödinger equation. (English summary) **2005m:81106**

Karasev, M. V. (*with* Pereskokov, A. V.) Asymptotic solutions for Hartree equations and logarithmic obstructions for higher corrections of semiclassical approximation. (English summary) **2005d:81149**
Keppeler, Stefan Semiclassical quantisation rules for the Dirac and Pauli equations. (English summary) **2005a:81073**
Lazur, V. Yu. *see* **Rubish, Vasyl′ V. et al., 2005g:81104**
Liang, Mai-Lin (*with* Sun, Yu-Jing) Quantum-classical correspondence of the relativistic equations. (English summary) **2005f:81072**
Lisok, A. L. (*with* Trifonov, A. Yu.; Shapovalov, A. V.) The Green function for a Hartree-type equation with a quadratic potential. (Russian. Russian summary) **2005j:81061**
— *see also* **Shapovalov, A. V. et al., 2005d:81152**
Liu, Hailiang *see* **Jin, Shi et al., 2005m:81106**
Main, Jörg (*with* Atilgan, Erdinç; Taylor, Howard S.; Wunner, Günter) Classical, semiclassical, and quantum investigations of the four-sphere scattering system. (English summary) **2005e:81065**
Markowich, Peter A. *see* **Carles, Rémi et al., 2005m:81103** *and* **Sparber, Christof**
Mauser, Norbert J. (Semi)classical limits of Schrödinger-Poisson systems via Wigner transforms. (English summary) **2005b:81043**
Millican-Slater, Adam *see* **Dorey, Patrick et al., 2005m:81104**
Miret-Artés, Salvador *see* **Pollak, Eli, 2005e:81067**
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Nemes, M. C. *see* **Fonseca Romero, K. M. et al., 2005j:81060**
Nenciu, Gheorghe (*with* Sordoni, Vania) Semiclassical limit for multistate Klein-Gordon systems: almost invariant subspaces, and scattering theory. (English summary) **2005e:81066**
Osher, Stanley *see* **Jin, Shi et al., 2005m:81106**
Paiano, G. (*with* Pellicoro, Mario) Closed evaluation of the JWKB integral in bound-state problems. (English summary)
Panati, G. *see* **Teufel, S., (2005c:81007)**
Peixoto de Faria, J. G. *see* **Fonseca Romero, K. M. et al., 2005j:81060**
Pellicoro, Mario *see* **Paiano, G.**
Pereskokov, A. V. *see* **Karasev, M. V., 2005d:81149**
Pletyukhov, Mikhail (*with* Zaytsev, Oleg) Semiclassical theory of spin-orbit interaction in the extended phase space. (English summary) **2005c:81065**
— (*with* Brack, Matthias) On the canonically invariant calculation of Maslov indices. **2005h:81133**
Pollak, Eli (*with* Miret-Artés, Salvador) Thawed semiclassical IVR propagators. (English summary) **2005e:81067**
Rabei, Eqab M. (*with* Nawafleh, Khaled I.; Ghassib, Humam B.) The motion of a spinning particle in an external electromagnetic field as a constrained system. (English summary) **2005e:81068**
— *see also* **Hasan, Eyad H. et al., 2005g:81103**
Reity, Olexander K. (*with* Rubish, Vasyl′ V.; Myhalyna, Svitlana I.) The WKB method for the Dirac equation with vector-scalar potentials in $2+1$ and $3+1$ dimensions. (English summary) **2005e:81069**
— *see also* **Rubish, Vasyl′ V. et al., 2005g:81104**
Rouleux, Michel Semi-classical integrability, hyperbolic flows and the Birkhoff normal form. (English summary) **2005i:81046**
Rousse, Vidian Landau-Zener transitions for eigenvalue avoided crossings in the adiabatic and Born-Oppenheimer approximations. (English summary) **2005d:81150**
Rubish, Vasyl′ V. (*with* Lazur, V. Yu.; Reity, Olexander K.; Chalupka, S.; Salák, M.) The WKB method for the Dirac equation with the vector and scalar potentials. (English summary) **2005g:81104**
— *see also* **Reity, Olexander K. et al., 2005e:81069**
Sakhr, Jamal (*with* Whelan, Niall D.) Semiclassical trace formulas for noninteracting identical particles. (English summary) **2005a:81074**
Salák, M. *see* **Rubish, Vasyl′ V. et al., 2005g:81104**
Sano, Mitsusada M. Semiclassical quantization of hyperbolic map on torus. (English summary) **2005j:81062**
Schubert, Roman Semiclassical behaviour of expectation values in time evolved Lagrangian states for large times. (English summary) **2005m:81107**
Schulman, L. S. Semiclassical quantization of localized lattice solitons. (English summary) **2005d:81151**
Servat, E. Résonances en dimension un pour l'opérateur de Schrödinger. (French summary) [Resonances for the Schrödinger operator in one dimension] **2005m:81108**
Seto, Ryohei *see* **Hyouguchi, Tadanori et al., 2005c:81064**
Shapovalov, A. V. (*with* Trifonov, A. Yu.; Lisok, A. L.) Semiclassical approach to the geometric phase theory for the Hartree type equation. (English summary) **2005d:81152**
— *see also* **Lisok, A. L. et al., 2005j:81061**
Shvedov, Oleg Yu. Symmetries in semiclassical mechanics. (English summary) **2005d:81153**
Sinitsyn, S. O. *see* **Belov, V. V. et al., 2005e:81063**
Sordoni, Vania *see* **Nenciu, Gheorghe, 2005e:81066**
Sparber, Christof (*with* Markowich, Peter A.) Erratum: "Semiclassical asymptotics for the Maxwell-Dirac system" [J. Math. Phys. **44** (2003), no. 10, 4555–4572; MR2008933 (2004h:81096)].
— *see also* **Carles, Rémi et al., 2005m:81103**
Sun, Yu-Jing *see* **Liang, Mai-Lin, 2005f:81072**
Swanson, Mark S. Charge-monopole trajectories and the WKB approximation. (English summary) **2005k:81083**
Tateo, Roberto *see* **Dorey, Patrick et al., 2005m:81104**
Taylor, Howard S. *see* **Main, Jörg et al., 2005e:81065**
Teufel, S. (*with* Panati, G.) Propagation of Wigner functions for the Schrödinger equation with a perturbed periodic potential. (English summary) (*see* **2005c:81007**)
de Toledo Piza, A. F. R. *see* **Fonseca Romero, K. M. et al., 2005j:81060**
Toloza, J. H. Exponentially accurate error estimates of quasiclassical eigenvalues. II. Several dimensions. (English summary) **2005d:81154**
Trifonov, A. Yu. *see* **Shapovalov, A. V. et al., 2005d:81152** *and* **Lisok, A. L. et al., 2005j:81061**
Trost, Johannes *see* **Friedrich, Harald, 2005a:81072**
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Tsai, Yen-Hsi Richard *see* **Jin, Shi et al., 2005m:81106**
Tudorovskiĭ, T. Ya. *see* **Belov, V. V. et al., 2005e:81063**
Ueda, Masahito *see* **Hyouguchi, Tadanori et al., 2005c:81064**
Voros, André "Exact WKB integration" of the polynomial 1D Schrödinger (or Sturm-Liouville) problem. **2005e:81070**
Whelan, Niall D. *see* **Sakhr, Jamal, 2005a:81074**
Wunner, Günter *see* **Main, Jörg et al., 2005e:81065**
Zaytsev, Oleg *see* **Pletyukhov, Mikhail, 2005c:81065**
Zerzeri, Maher *see* **Fujiié, Setsuro, 2005k:81082**
Zinn-Justin, Jean From multi-instantons to exact results. (English and French summaries) **2005c:81066**

Items with secondary classifications in 81Q20

de Aguiar, M. A. M. *see* **Parisio, Fernando, 2005c:81095**
Al′beverio, S. (*with* Dobrokhotov, S. Yu.; Semenov, E. S.) On formulas for splitting the upper and lower energy levels of the one-dimensional Schrödinger operator. (Russian. Russian summary) **2005c:81054**
Alvarez, Gabriel (*with* Álvarez-Estrada, Ramón F.) Third-order equation for harmonic generation: complex canonical transformation and JWKB solution. (English summary) **2005a:81053**
Álvarez-Estrada, Ramón F. *see* **Alvarez, Gabriel, 2005a:81053**
Aoki, Takashi (*with* Kawai, Takahiro; Koike, Tatsuya; Takei, Yoshitsugu) On the exact WKB analysis of operators admitting infinitely many phases. (English summary) **2005b:35305**
Arnold, Keith *see* **Fernando, Sharmanthie, 2005b:83057**
Avdonina, N. B. *see* **Belov, Sergei Mikhailovich et al., 2005d:81377**
Bao, Weizhu (*with* Jin, Shi; Markowich, Peter A.) Numerical study of time-splitting spectral discretizations of nonlinear Schrödinger equations in the semiclassical regimes. (English summary) **2005b:65113**
Batterman, Robert W. Response to: "Whose devil? Which details?" [Philos. Sci. **72** (2005), no. 1, 128–153; MR2141637 (2005k:00004)] by G. Belot. (English summary)
Belot, Gordon Whose devil? Which details? (English summary) **2005k:00004**
— *see also* **Batterman, Robert W.**
Belov, Sergei Mikhailovich (*with* Avdonina, N. B.; Felfli, Z.; Marletta, Marco; Msezane, A. Z.; Naboko, Sergei N.) Semiclassical approach to Regge poles trajectories calculations for nonsingular potentials: Thomas-Fermi type. (English summary) **2005d:81377**
Benatti, Fabio (*with* Cappellini, Valerio; De Cock, Mieke; Fannes, Mark; Vanpeteghem, D.) Classical limit of quantum dynamical entropies. (English summary) **2005e:81072**
Bender, Carl M. (*with* Jones, Hugh F.) Semiclassical calculation of the $\mathscr{C}$ operator in $\mathscr{PT}$-symmetric quantum mechanics. (English summary) **2005g:81110**
Berkolaïko, G. M. (*with* Schanz, Holger; Whitney, Robert S.) Form factor for a family of quantum graphs: an expansion to third order. (English summary) **2005d:81155**
Bhaduri, Rajat K. (*with* Sakhr, Jamal; Sprung, D. W. L.; Dutt, Ranabir; Suzuki, Akira) Shape invariant potentials in SUSY quantum mechanics and periodic orbit theory. (English summary) **2005m:81116**
— *see also* **Brack, Matthias, 2005d:81002**
Bolte, Jens (*with* Glaser, Rainer) A semiclassical Egorov theorem and quantum ergodicity for matrix valued operators. (English summary) **2005m:82091**
Bony, Jean-François (*with* Michel, Laurent) Microlocalization of resonant states and estimates of the residue of the scattering amplitude. (English summary) **2005j:35010**
Brack, Matthias (*with* Bhaduri, Rajat K.) ★ Semiclassical physics. **2005d:81002**
Bracken, A. J. (*with* Wood, J. G.) Non-positivity of Groenewold operators. (English summary) **2005g:81026**
Braun, Petr *see* **Heusler, Stefan et al., 2005c:81068**
Burq, Nicolas Lower bounds for shape resonances widths of long range Schrödinger operators. (English summary) **2005c:47108**
Camus, Brice A semi-classical trace formula at a totally degenerate critical level. (English summary) **2005c:35302**
Cappellini, Valerio *see* **Benatti, Fabio et al., 2005e:81072**
Carles, Rémi Semi-classical Schrödinger equations with harmonic potential and nonlinear perturbation. (English and French summaries) **2005d:35218**
— (*with* Miller, Luc) Semiclassical nonlinear Schrödinger equations with potential and focusing initial data. **2005m:35277**
Cho, Hing Tong (*with* Lin, Y.-C.) WKB analysis of the scattering of massive Dirac fields in Schwarzschild black-hole spacetimes. (English summary) **2005m:81078**
Colin de Verdière, Yves The level crossing problem in semi-classical analysis. I. The symmetric case. (English and French summaries) **2005f:35349**
De Cock, Mieke *see* **Benatti, Fabio et al., 2005e:81072**
Degli Esposti, Mirko (*with* O'Keefe, Stephen; Winn, Brian) A semi-classical study of the Casati-Prosen triangle map. (English summary) **2005m:81110**
Dietz, Barbara (*with* Lombardi, Maurice; Seligman, Thomas H.) Unified theory of bound and scattering molecular Rydberg states as quantum maps. (English summary) **2005f:81074**
Dobrokhotov, S. Yu. *see* **Al′beverio, S. et al., 2005c:81054**
Dullin, Holger R. *see* **Waalkens, Holger et al., 2005k:70034**
Dunne, Gerald V. (*with* Hur, Jin; Lee, Choonkyu; Min, Hyunsoo) Instanton determinant with arbitrary quark mass: WKB phase-shift method and derivative expansion. (English summary) **2005d:81249**
Dutt, Ranabir *see* **Bhaduri, Rajat K. et al., 2005m:81116**
Faginas Lago, N. (*with* Laganà, A.) Initial value semiclassical approaches to reactive and non reactive transition probabilities. (English summary) (*see* **2005c:00015**)
Fannes, Mark *see* **Benatti, Fabio et al., 2005e:81072**
Faure, Frédéric (*with* Nonnenmacher, Stéphane) On the maximal scarring for quantum cat map eigenstates. (English summary) **2005m:81111**
Fedotov, Aleksandr A. (*with* Klopp, Frédéric) Geometric tools of the adiabatic complex WKB method. (English and French summaries) **2005h:34238**

Felfli, Z. *see* **Belov, Sergei Mikhailovich et al., 2005d:81377**
Fermanian Kammerer, Clotilde Analyse à deux échelles d'une suite bornée de L^2 sur une sous-variété du cotangent. (English and French summaries) [Two-scale analysis of a bounded family in L^2 on a submanifold of the phase space] **2005i:28008**
Fernando, Sharmanthie (*with* Arnold, Keith) Scalar perturbations of charged dilaton black holes. (English summary) **2005b:83057**
Gamblin, Didier Résonances de Rayleigh en dimension 2. (English and French summaries) [Rayleigh resonances in dimension 2] **2005f:35230**
Gao, Yang *see* **Qiang, Wen Chao et al., 2005g:81118**
Glaser, Rainer *see* **Bolte, Jens, 2005m:82091**
Gnutzmann, Sven (*with* Seif, Burkhard) Universal spectral statistics in Wigner-Dyson, chiral, and Andreev star graphs. II. Semiclassical approach. (English summary) **2005g:81106**
Grigor'ev, O. N. (*with* Karasev, M. V.) Intrinsic quantum dynamics and its operator representation over a plane with a nonstandard connection. (English summary) **2005g:81166**
Guster, Dennis *see* **Sultanov, Renat A., (2005g:65008)**
Haake, Fritz *see* **Heusler, Stefan et al., 2005c:81068**
Haro, Jaume The semiclassical theory of quantized fields in classical electromagnetic backgrounds. (English and Spanish summaries) **2005g:81352**
Helffer, Bernard Semi-classical methods in Ginzburg-Landau theory. (English summary) **2005g:82136**
Heusler, Stefan (*with* Müller, Sebastian; Braun, Petr; Haake, Fritz) Universal spectral form factor for chaotic dynamics. (English summary) **2005c:81068**
Hur, Jin *see* **Dunne, Gerald V. et al., 2005d:81249**
Jentschura, Ulrich D. (*with* Zinn-Justin, Jean) Instantons in quantum mechanics and resurgent expansions. (English summary) **2005k:81079**
— *see also* **Zinn-Justin, Jean, 2005m:81100** *and* **2005m:81101**
Jin, Shi *see* **Bao, Weizhu et al., 2005b:65113**
Jones, Hugh F. *see* **Bender, Carl M., 2005g:81110**
Kamvissis, Spyridon Semiclassical nonlinear Schrödinger on the half line. (English summary) **2005h:37173**
Karasev, M. V. Intrinsic dynamics of symplectic manifolds: membrane representation and phase product. (English summary) **2005m:53149**
— *see also* **Grigor'ev, O. N., 2005g:81166**
Kawai, Takahiro *see* **Aoki, Takashi et al., 2005b:35305**
Keraani, Sahbi Limite semi-classique pour l'équation de Schrödinger non-linéaire avec potentiel harmonique. (English and French summaries) [Semiclassical limit for an NLS with harmonic potential] **2005m:35284**
Klopp, Frédéric *see* **Fedotov, Aleksandr A., 2005h:34238**
Koike, Tatsuya *see* **Aoki, Takashi et al., 2005b:35305**
Konoplya, Roman A. Quasinormal modes of the Schwarzschild black hole and higher order WKB approach. (English and Ukrainian summaries) **2005h:83113**
Kosina, H. *see* **Ringhofer, Christian et al., 2005m:82146**
Laganà, A. *see* **Faginas Lago, N., (2005c:00015)**
Lee, Choonkyu *see* **Dunne, Gerald V. et al., 2005d:81249**
Lewenkopf, C. H. (*with* Vallejos, Raúl O.) Open orbits and the semiclassical dwell time. (English summary) **2005j:81203**
Lin, Y.-C. *see* **Cho, Hing Tong, 2005m:81078**
Litvinov, G. L. The Maslov dequantization, idempotent and tropical mathematics: a very brief introduction. (English summary)
Lombardi, Maurice *see* **Dietz, Barbara et al., 2005f:81074**
Margolus, Norman H. Universal cellular automata based on the collisions of soft spheres. **2005m:37030**
Markowich, Peter A. *see* **Bao, Weizhu et al., 2005b:65113**
Marletta, Marco *see* **Belov, Sergei Mikhailovich et al., 2005d:81377**
Michel, Laurent Semi-classical behavior of the scattering amplitude for trapping perturbations at fixed energy. (English summary) **2005e:35176**
— *see also* **Bony, Jean-François, 2005j:35010**
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Müller, Sebastian *see* **Heusler, Stefan et al., 2005c:81068**
Mussardo, G. (*with* Riva, V.; Sotkov, G. M.) Semiclassical particle spectrum of double sine-Gordon model. (English summary) **2005f:81142**
Naboko, Sergei N. *see* **Belov, Sergei Mikhailovich et al., 2005d:81377**
Nanayakkara, Asiri Classical motion of complex 2-D non-Hermitian Hamiltonian systems. (English summary) **2005d:81157**
Nazaĭkinskiĭ, V. E. (*with* Schulze, Bert-Wolfgang; Sternin, B. Yu.) ★ Quantization methods in differential equations. **2005g:58051**
Nedjalkov, M. *see* **Ringhofer, Christian et al., 2005m:82146**
Nenciu, Gheorghe Almost invariant subspaces for quantum evolutions. (English summary) **2005g:81100**
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Pankrashkin, Konstantin On semiclassical dispersion relations of Harper-like operators. (English summary) **2005f:81286**
Parisio, Fernando (*with* de Aguiar, M. A. M.) Semiclassical coherent-state propagator via path integrals with intermediate states of variable width. (English summary) **2005c:81095**
Pletyukhov, Mikhail On the extra phase correction to the semiclassical spin coherent-state propagator. (English summary) **2005b:81070**
Qiang, Wen Chao (*with* Zhou, Run Suo; Gao, Yang) Supersymmetry and SWKB approach to the Dirac equation with a Coulomb potential in $2+1$ dimensions. (English summary) **2005g:81118**
Richter, Peter H. *see* **Waalkens, Holger et al., 2005k:70034**
Ringhofer, Christian (*with* Nedjalkov, M.; Kosina, H.; Selberherr, S.) Semiclassical approximation of electron-phonon scattering beyond Fermi's golden rule. (English summary) **2005m:82146**
Riva, V. *see* **Mussardo, G. et al., 2005f:81142**
Robinett, R. W. Quantum wave packet revivals. (English summary) **2005c:81051**
Ruiz, David Semiclassical states for coupled Schrödinger-Maxwell equations: concentration around a sphere. (English summary) **2005k:35145**
Ruuge, Artur E. Indeterministic objects in the category of effect algebras and the passage to the semiclassical limit. (English summary) **2005k:81018**
Sakhr, Jamal *see* **Bhaduri, Rajat K. et al., 2005m:81116**
Schaden, Martin (*with* Spruch, Larry) Diffraction in the semiclassical approximation to Feynman's path integral representation of the Green function. (English summary) **2005e:81122**
Schanz, Holger *see* **Berkolaïko, G. M. et al., 2005d:81155**
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Seligman, Thomas H. *see* **Dietz, Barbara et al., 2005f:81074**
Semenov, E. S. *see* **Al'beverio, S. et al., 2005c:81054**
Shipman, Stephen P. WKB analysis in the semiclassical limit of a discrete NLS system. (English summary) **2005k:37174**
Sotkov, G. M. *see* **Mussardo, G. et al., 2005f:81142**
Spruch, Larry *see* **Schaden, Martin, 2005e:81122**
Sprung, D. W. L. *see* **Bhaduri, Rajat K. et al., 2005m:81116**
Sternin, B. Yu. *see* **Nazaĭkinskiĭ, V. E. et al., 2005g:58051**
Sultanov, Renat A. (*with* Guster, Dennis) Parallel computing for semiquantal few-body systems in atomic physics. (English summary) (*see* **2005g:65008**)
Suzuki, Akira *see* **Bhaduri, Rajat K. et al., 2005m:81116**
Tagirov, È. A. Quantum mechanics in a Riemannian space: a comparison of different approaches to the quantization of geodesic motion. (Russian. Russian summary) **2005c:81112**
Takei, Yoshitsugu *see* **Aoki, Takashi et al., 2005b:35305**
Vallejos, Raúl O. *see* **Lewenkopf, C. H., 2005j:81203**
Vanpeteghem, D. *see* **Benatti, Fabio et al., 2005e:81072**
Waalkens, Holger (*with* Dullin, Holger R.; Richter, Peter H.) The problem of two fixed centers: bifurcations, actions, monodromy. (English summary) **2005k:70034**
Wang, Xue Ping[1] Semi-classical measures and the Helmholtz equation. (English and Spanish summaries) **2005m:35058**
Whitney, Robert S. *see* **Berkolaïko, G. M. et al., 2005d:81155**
Winn, Brian *see* **Degli Esposti, Mirko et al., 2005m:81110**
Wood, J. G. *see* **Bracken, A. J., 2005g:81026**
Zhou, Run Suo *see* **Qiang, Wen Chao et al., 2005g:81118**
Zinn-Justin, Jean (*with* Jentschura, Ulrich D.) Multi-instantons and exact results. I. Conjectures, WKB expansions, and instanton interactions. (English summary) **2005m:81100**
— (*with* Jentschura, Ulrich D.) Multi-instantons and exact results. II. Specific cases, higher-order effects, and numerical calculations. (English summary) **2005m:81101**
— *see also* **Jentschura, Ulrich D., 2005k:81079**

81Q30 Feynman integrals and graphs; applications of algebraic topology and algebraic geometry [see also 14D05, 32S40]

Polyak, Michael Feynman diagrams for pedestrians and mathematicians. **2005m:81109**

Items with secondary classifications in 81Q30

Akhmetzyanova, È. N. (*with* Dolgopolov, V. M.; Dolgopolov, M. V.) Feynman integrals. (Russian. English and Russian summaries) **2005j:81116**
Ben Adda, Fayçal (*with* Cresson, Jacky) Fractional differential equations and the Schrödinger equation. (English summary) **2005k:26014**
Cresson, Jacky *see* **Ben Adda, Fayçal, 2005k:26014**
Denner, A. (*with* Pozzorini, S.) An algorithm for the high-energy expansion of multi-loop diagrams to next-to-leading logarithmic accuracy. (English summary) **2005m:81212**
Dolgopolov, M. V. *see* **Akhmetzyanova, È. N. et al., 2005j:81116**
Dolgopolov, V. M. *see* **Akhmetzyanova, È. N. et al., 2005j:81116**
Garg, Mridula (*with* Mishra, Rupakshi) On product of hypergeometric functions, general class of multivariable polynomials and a generalized hypergeometric series associated with Feynman integrals. (English summary) **2005g:33024**
(Kuvychko, I. V.) *see* **Menskiĭ, M. B., 2005c:81029**
Menotti, Pietro (*with* Tonni, Erik) The tetrahedron graph in Liouville theory on the pseudosphere. (English summary) **2005c:81129**
Menskiĭ, M. B. ★ Квантовые измерения и декогеренция. (Russian. Russian summary) [Quantum measurements and decoherence] **2005c:81029**
Mishra, Rupakshi *see* **Garg, Mridula, 2005g:33024**
Pozzorini, S. *see* **Denner, A., 2005m:81212**
Sharma, R. P. Double integral involving the $\overline{H}$-function. (English summary)
Tonni, Erik *see* **Menotti, Pietro, 2005c:81129**

81Q40 Bethe-Salpeter and other integral equations

Brau, Fabian Lower bounds for the spinless Salpeter equation. (English summary) **2005h:81134**

81Q50 Quantum chaos [see also 37Dxx]

Åberg, Sven *see* **Radionov, Sergey et al., 2005k:81088**
Bäcker, A. (*with* Fürstberger, S.; Schubert, Roman) Poincaré Husimi representation of eigenstates in quantum billiards. (English summary) **2005k:81084**
Bandyopadhyay, Jayendra N. (*with* Lakshminarayan, Arul) Entanglement production in coupled chaotic systems: case of the kicked tops. (English summary) **2005e:81071**
Benatti, Fabio (*with* Cappellini, Valerio; De Cock, Mieke; Fannes, Mark; Vanpeteghem, D.) Classical limit of quantum dynamical entropies. (English summary) **2005e:81072**
Berkolaïko, G. M. (*with* Schanz, Holger; Whitney, Robert S.) Form factor for a family of quantum graphs: an expansion to third order. (English summary) **2005d:81155**

— (*with* Keating, Jonathan P.; Winn, Brian) No quantum ergodicity for star graphs. (English summary) **2005k:81085**
— Form factor for large quantum graphs: evaluating orbits with time reversal. (English summary) **2005j:81063**
Bogomol'nyĭ, E. B. (*with* Schmit, C.) Multiplicities of periodic orbit lengths for non-arithmetic models. (English summary) **2005f:81073**
Braun, Petr *see* **Heusler, Stefan et al., 2005c:81068**
Cappellini, Valerio *see* **Benatti, Fabio et al., 2005e:81072**
Cerdeira, Hilda A. *see* **Rodríguez-Achach, Manuel et al., 2005d:81158**
Dabaghian, Yu. (*with* Jensen, Roderick V.) Quantum chaos in elementary quantum mechanics. (English summary) **2005k:81086**
De Bièvre, Stephan *see* **Faure, Frédéric et al., 2005a:81076**
Décanini, Yves (*with* Folacci, Antoine) Weyl formulas for annular ray-splitting billiards. (English summary) **2005a:81075**
De Cock, Mieke *see* **Benatti, Fabio et al., 2005e:81072**
Degli Esposti, Mirko (*with* O'Keefe, Stephen; Winn, Brian) A semi-classical study of the Casati-Prosen triangle map. (English summary) **2005m:81110**
Dietz, Barbara (*with* Lombardi, Maurice; Seligman, Thomas H.) Unified theory of bound and scattering molecular Rydberg states as quantum maps. (English summary) **2005f:81074**
Doncheski, M. A. (*with* Heppelmann, S.; Robinett, R. W.; Tussey, D. C.) Wave packet construction in two-dimensional quantum billiards: blueprints for the square, equilateral triangle, and circular cases. (English summary) **2005c:81067**
Evangelou, S. N. (*with* Katsanos, D. E.) Quantum correlations from Brownian diffusion of chaotic level-spacings. (English summary) **2005h:81135**
Fannes, Mark *see* **Benatti, Fabio et al., 2005e:81072**
Faure, Frédéric (*with* Nonnenmacher, Stéphane; De Bièvre, Stephan) Scarred eigenstates for quantum cat maps of minimal periods. (English summary) **2005a:81076**
— (*with* Nonnenmacher, Stéphane) On the maximal scarring for quantum cat map eigenstates. (English summary) **2005m:81111**
Folacci, Antoine *see* **Décanini, Yves, 2005a:81075**
Fürstberger, S. *see* **Bäcker, A. et al., 2005k:81084**
Gamburd, Alex Expander graphs, random matrices and quantum chaos. (English summary) **2005k:81087**
Ghosh, Gautam *see* **Nag, Sankhasubhra et al.**
Giraud, Olivier (*with* Marklof, Jens; O'Keefe, Stephen) Intermediate statistics in quantum maps. (English summary) **2005f:81075**
Gnutzmann, Sven (*with* Seif, Burkhard) Universal spectral statistics in Wigner-Dyson, chiral, and Andreev star graphs. I. Construction and numerical results. (English summary) **2005g:81105**
— (*with* Seif, Burkhard) Universal spectral statistics in Wigner-Dyson, chiral, and Andreev star graphs. II. Semiclassical approach. (English summary) **2005g:81106**
Guérin, Stéphane *see* **Jauslin, H. R. et al., 2005m:81112**
Guhr, Thomas *see* **Radionov, Sergey et al., 2005k:81088**
Haake, Fritz *see* **Heusler, Stefan et al., 2005c:81068**
Heppelmann, S. *see* **Doncheski, M. A. et al., 2005c:81067**
Heusler, Stefan (*with* Müller, Sebastian; Braun, Petr; Haake, Fritz) Universal spectral form factor for chaotic dynamics. (English summary) **2005c:81068**
Hornos, José Eduardo M. *see* **Novaes, Marcel, 2005i:81047**
Huard, D. (*with* Kröger, Helmut; Melkonyan, G.; Moriarty, K. J. M.; Nadeau, L. P.) What does quantum chaos mean? (English summary) (*see* **2005i:00016**)
— (*with* Kröger, Helmut; Melkonyan, G.; Nadeau, L. P.; Moriarty, K. J. M.) Quantum chaos viewed from quantum action. (English summary) (*see* **2005h:81006**)
Ishio, H. Statistics and ergodicity of wave functions in chaotic open systems. (English summary) (*see* **2005c:81006**)
Jauslin, H. R. (*with* Sapin, O.; Guérin, Stéphane; Wreszinski, Walter F.) Upper quantum Lyapunov exponent and parametric oscillators. (English summary) **2005m:81112**
Jensen, Roderick V. *see* **Dabaghian, Yu., 2005k:81086**
Katsanos, D. E. *see* **Evangelou, S. N., 2005h:81135**
Keating, Jonathan P. *see* **Berkolaĭko, G. M. et al., 2005k:81085**
Kröger, Helmut *see* **Huard, D. et al., (2005h:81006)** *and* **(2005i:00016)**
Kuvshinov, V. I. (*with* Marmysh, V. V.; Shaporov, V. A.) The connection and evolution of squeezing and instability for systems with quadratic Hamiltonians. (Russian. Russian summary) **2005h:81136**
Lahiri, Avijit *see* **Nag, Sankhasubhra et al.**
Lakshminarayan, Arul *see* **Bandyopadhyay, Jayendra N., 2005e:81071**
Leonel, Edson D. (*with* McClintock, P. V. E.) Dynamical properties of a particle in a time-dependent double-well potential. (English summary) **2005d:81156**
Lombardi, Maurice *see* **Dietz, Barbara et al., 2005f:81074**
Marklof, Jens *see* **Giraud, Olivier et al., 2005f:81075**
Marmysh, V. V. *see* **Kuvshinov, V. I. et al., 2005h:81136**
McClintock, P. V. E. *see* **Leonel, Edson D., 2005d:81156**
McHarris, Wm. C. Chaotic effects in quantum mechanics: could Bohr and Einstein both have been right? (English summary) **2005h:81137**
Melkonyan, G. *see* **Huard, D. et al., (2005h:81006)** *and* **(2005i:00016)**
Moriarty, K. J. M. *see* **Huard, D. et al., (2005h:81006)** *and* **(2005i:00016)**
Müller, Sebastian *see* **Heusler, Stefan et al., 2005c:81068**
Nadeau, L. P. *see* **Huard, D. et al., (2005h:81006)** *and* **(2005i:00016)**
Nag, Sankhasubhra (*with* Ghosh, Gautam; Lahiri, Avijit) Quantum chaos: reduced density matrix fluctuations in coupled systems. (English summary)
Nanayakkara, Asiri Classical motion of complex 2-D non-Hermitian Hamiltonian systems. (English summary) **2005d:81157**
Nonnenmacher, Stéphane Spectral properties of noisy classical and quantum propagators. (English summary) **2005h:81138**
— *see also* **Faure, Frédéric et al., 2005a:81076** *and* **2005m:81111**
Novaes, Marcel (*with* Hornos, José Eduardo M.) Quantum nonintegrability and the classical limit for usp(4) systems. (English summary) **2005i:81047**
O'Keefe, Stephen *see* **Giraud, Olivier et al., 2005f:81075** *and* **Degli Esposti, Mirko et al., 2005m:81110**
Pérez, Gabriel *see* **Rodríguez-Achach, Manuel et al., 2005d:81158**
Radionov, Sergey (*with* Åberg, Sven; Guhr, Thomas) Regularity and chaos in interacting two-body systems. (English summary) **2005k:81088**
Robinett, R. W. *see* **Doncheski, M. A. et al., 2005c:81067**
Rodríguez-Achach, Manuel (*with* Pérez, Gabriel; Cerdeira, Hilda A.) Quantum and thermal corrections to a classically chaotic dissipative system. (English summary) **2005d:81158**
Saitô, Nobuhiko Theory of quantum measurement in terms of quantum chaos. (English summary)
Sankaranarayanan, Ramasubramanian Level velocity, statistics of hyperbolic chaos. (English summary) **2005a:81077**
Sapin, O. *see* **Jauslin, H. R. et al., 2005m:81112**
Schanz, Holger *see* **Berkolaĭko, G. M. et al., 2005d:81155**
Schmit, C. *see* **Bogomol'nyĭ, E. B., 2005f:81073**
Schubert, Roman *see* **Bäcker, A. et al., 2005k:81084**
Seif, Burkhard *see* **Gnutzmann, Sven, 2005g:81105** *and* **2005g:81106**
Seligman, Thomas H. *see* **Dietz, Barbara et al., 2005f:81074**
Shaporov, V. A. *see* **Kuvshinov, V. I. et al., 2005h:81136**
Tomiya, Mitsuyoshi (*with* Yoshinaga, Naotaka) Spectral statistics of a spin-1/2 coupled quartic oscillators. (English summary) **2005a:81078**
Tussey, D. C. *see* **Doncheski, M. A. et al., 2005c:81067**
Vanpeteghem, D. *see* **Benatti, Fabio et al., 2005e:81072**
Whitney, Robert S. *see* **Berkolaĭko, G. M. et al., 2005d:81155**
Winn, Brian *see* **Berkolaĭko, G. M. et al., 2005k:81085** *and* **Degli Esposti, Mirko et al., 2005m:81110**
Wreszinski, Walter F. *see* **Jauslin, H. R. et al., 2005m:81112**
Yoshinaga, Naotaka *see* **Tomiya, Mitsuyoshi, 2005a:81078**

Items with secondary classifications in 81Q50

Atilgan, Erdinç *see* **Main, Jörg et al., 2005e:81065**
Bolte, Jens (*with* Glaser, Rainer) A semiclassical Egorov theorem and quantum ergodicity for matrix valued operators. (English summary) **2005m:82091**
Caliceti, Emanuela Distributional Borel sum for the $\mathscr{PT}$-symmetric Hénon-Heiles model. (English summary) **2005e:81062**
Creagh, Stephen C. Classical transition states in quantum theory. (English summary) **2005f:81070**
Félix, S. (*with* Pagneux, V.) Ray-wave correspondence in bent waveguides. (English summary) **2005i:76098**
Field, Chris M. (*with* Nijhoff, Frank W.) Quantum discrete Dubrovin equations. (English summary) **2005i:81057**
Giraud, Olivier Diffractive orbits in isospectral billiards. (English summary) **2005d:81133**
Glaser, Rainer *see* **Bolte, Jens, 2005m:82091**
Granville, Andrew Nombres premiers et chaos quantique. (French summary) [Prime numbers and quantum chaos] **2005b:11146**
Main, Jörg (*with* Atilgan, Erdinç; Taylor, Howard S.; Wunner, Günter) Classical, semiclassical, and quantum investigations of the four-sphere scattering system. (English summary) **2005e:81065**
Nijhoff, Frank W. *see* **Field, Chris M., 2005i:81057**
Pagneux, V. *see* **Félix, S., 2005i:76098**
Sakhr, Jamal (*with* Whelan, Niall D.) Semiclassical trace formulas for noninteracting identical particles. (English summary) **2005a:81074**
Sano, Mitsusada M. Semiclassical quantization of hyperbolic map on torus. (English summary) **2005j:81062**
Segre, Gavriel Physical complexity of classical and quantum objects and their dynamical evolution from an information-theoretic viewpoint. (English summary) **2005i:37010**
Sinaĭ, Ya. G. What is ... a billiard? **2005a:37049**
Taylor, Howard S. *see* **Main, Jörg et al., 2005e:81065**
Vitiello, Giuseppe Classical chaotic trajectories in quantum field theory. (English summary) **2005b:81219**
Weickert, Brendan Quantizations of linear self-maps of $\mathbb{R}^2$. (English summary) **2005k:47069**
Whelan, Niall D. *see* **Sakhr, Jamal, 2005a:81074**
Wunner, Günter *see* **Main, Jörg et al., 2005e:81065**

81Q60 Supersymmetric quantum mechanics

Aktaş, Metin (*with* Sever, Ramazan) Supersymmetric solution of PT-/non-PT-symmetric and non-Hermitian Morse potential via Hamiltonian hierarchy method. (English summary) **2005g:81107**
Alhaidari, A. D. An extended class of L^2-series solutions of the wave equation. (English summary) **2005k:81089**
Alonso Izquierdo, A. (*with* González León, M. A.; de la Torre Mayado, M.; Mateos Guilarte, J.) On two-dimensional superpotentials: from classical Hamilton-Jacobi theory to 2D supersymmetric quantum mechanics. (English summary) **2005g:81108**
Andrianov, A. A. (*with* Cannata, Francesco) Nonlinear supersymmetry for spectral design in quantum mechanics. (English summary) **2005m:81113**
Aref'eva, I. Ya. (*with* Fernández C., David J.; Hussin, Véronique; Negro, Javier; Nieto, Luis M.; Samsonov, Boris F.) Preface [International Conference on Progress in Supersymmetric Quantum Mechanics].
Bellucci, Stefano (*with* Krivonos, S. O.; Nersesyan, A. P.) $\mathcal{N} = 8$ supersymmetric mechanics on special Kähler manifolds. (English summary) **2005i:81048**
— (*with* Krivonos, S. O.; Sutulin, A.) $N = 8$ supersymmetric quaternionic mechanics. (English summary) **2005j:81064**
— (*with* Krivonos, S. O.; Shcherbakov, A.) Two-dimensional $N = 8$ supersymmetric mechanics in superspace. (English summary) **2005m:81114**
— (*with* Beylin, A.; Krivonos, S. O.; Nersesyan, A. P.; Orazi, E.) $N = 4$ supersymmetric mechanics with nonlinear chiral supermultiplet. (English summary) **2005m:81115**
Bender, Carl M. Calculating the $\mathscr{C}$ operator in $\mathscr{PT}$-symmetric quantum mechanics. (English summary) **2005g:81109**
— (*with* Jones, Hugh F.) Semiclassical calculation of the $\mathscr{C}$ operator in $\mathscr{PT}$-symmetric quantum mechanics. (English summary) **2005g:81110**

Beylin, A. *see* **Bellucci, Stefano et al., 2005m:81115**

Bhaduri, Rajat K. (*with* Sakhr, Jamal; Sprung, D. W. L.; Dutt, Ranabir; Suzuki, Akira) Shape invariant potentials in SUSY quantum mechanics and periodic orbit theory. (English summary) **2005m:81116**

Brink, D. M. *see* **Sukumar, C. V., 2005a:81080**

Cannata, Francesco (*with* Ioffe, Mikhail V.; Neelov, A. I.; Nishnianidze, D. N.) Higher order matrix SUSY transformations in two-dimensional quantum mechanics. (English summary) **2005g:81111**

— *see also* **Andrianov, A. A., 2005m:81113**

Cao, Zhuangqi *see* **He, Ying[2] et al., 2005d:81160**

Carballo, Juan M. (*with* Fernández C., David J.; Negro, Javier; Nieto, Luis M.) Polynomial Heisenberg algebras. (English summary) **2005g:81112**

Castro, Carlos[1] (*with* Mahecha, Jorge) Fractal supersymmetric QM, geometric probability and the Riemann hypothesis. (English summary) **2005f:81076**

Chabanov, Vladimir M. New theory of periodic systems by supersymmetric quantum mechanics on finite interval. (English summary)

Combescure, Monique (*with* Gieres, François; Kibler, Maurice) Are $N = 1$ and $N = 2$ supersymmetric quantum mechanics equivalent? (English summary) **2005k:81090**

Dorey, Patrick (*with* Dunning, Clare; Tateo, Roberto) A reality proof in $\mathcal{PT}$-symmetric quantum mechanics. (English summary)

Dunning, Clare *see* **Dorey, Patrick et al.**

Dutt, Ranabir *see* **Bhaduri, Rajat K. et al., 2005m:81116**

Elze, Hans-Thomas On quantum mechanics as constrained $N = 2$ supersymmetric classical dynamics. (English summary) **2005j:81065**

Fakhri, H. (*with* Sadeghi, J.) Supersymmetry approaches to the bound states of the generalized Woods-Saxon potential. (English summary) **2005a:81079**

Faux, Michael (*with* Spector, Donald) A BPS interpretation of shape invariance. (English summary) **2005g:81113**

— (*with* Spector, Donald) Duality and central charges in supersymmetric quantum mechanics. (English summary) **2005m:81117**

Fernández C., David J. (*with* Salinas-Hernández, Encarnación) Wronskian formula for confluent second-order supersymmetric quantum mechanics. (English summary) **2005k:81091**

— *see also* **Carballo, Juan M. et al., 2005g:81112** *and* **Aref'eva, I. Ya. et al.**

Gao, Yang *see* **Qiang, Wen Chao et al., 2005g:81118**

Ghosh, Pijush Kanti Super-Calogero model with OSp(2|2) supersymmetry: is the construction unique? (English summary) **2005d:81159**

Giedt, Joel (*with* Poppitz, Erich; Koniuk, Roman; Yavin, Tzahi) Less naive about supersymmetric lattice quantum mechanics. (English summary) **2005k:81092**

Gieres, François *see* **Combescure, Monique et al., 2005k:81090**

Gómez-Ullate Oteiza, D. (*with* Kamran, Niky; Milson, Robert) Supersymmetry and algebraic Darboux transformations. (English summary) **2005g:81114**

González León, M. A. *see* **Alonso Izquierdo, A. et al., 2005g:81108**

Harikumar, E. (*with* Kumar, V. Sunil; Khare, Avinash) Supersymmetric quantum mechanics on non-commutative plane. (English summary) **2005c:81069**

He, Ying[2] (*with* Cao, Zhuangqi; Shen, Qishun) Bound-state spectra for supersymmetric quantum mechanics. (English summary) **2005d:81160**

Hirshfeld, Allen C. Fermions and supersymmetry. (English summary) (*see* **2005b:00027**)

Hussin, Véronique *see* **Aref'eva, I. Ya. et al.**

Ioffe, Mikhail V. A SUSY approach for investigation of two-dimensional quantum mechanical systems. (English summary) **2005g:81115**

— (*with* Nishnianidze, D. N.) SUSY intertwining relations of third order in derivatives. (English summary) **2005d:81161**

— *see also* **Cannata, Francesco et al., 2005g:81111**

Jones, Hugh F. *see* **Bender, Carl M., 2005g:81110**

Kamran, Niky *see* **Gómez-Ullate Oteiza, D. et al., 2005g:81114**

Kaushal, R. S. *see* **Parthasarathi et al., 2005b:81045**

Khare, Avinash (*with* Sukhatme, Uday) Periodic potentials and supersymmetry. (English summary) **2005k:81093**

— *see also* **Harikumar, E. et al., 2005c:81069**

Kibler, Maurice *see* **Combescure, Monique et al., 2005k:81090**

Kirchberg, A. (*with* Länge, J. D.; Wipf, A.) Extended supersymmetries and the Dirac operator. (English summary) **2005m:81118**

Koniuk, Roman *see* **Giedt, Joel et al., 2005k:81092**

Krivonos, S. O. *see* **Bellucci, Stefano et al., 2005i:81048**; **2005j:81064**; **2005m:81114** *and* **2005m:81115**

Kumar, V. Sunil *see* **Harikumar, E. et al., 2005c:81069**

Länge, J. D. *see* **Kirchberg, A. et al., 2005m:81118**

Lévai, Géza Supersymmetry without Hermiticity. (English summary) **2005h:81139**

— SUSYQM and other symmetries in quantum mechanics. (English summary) **2005g:81116**

— *see also* **Errata: "SUSYQM and other symmetries in quantum mechanics", 2005h:81141**

Mahecha, Jorge *see* **Castro, Carlos[1], 2005f:81076**

Maidanyuk, S. P. SUSY-hierarchy of one-dimensional reflectionless potentials. (English summary) **2005m:81119**

Mateos Guilarte, J. *see* **Alonso Izquierdo, A. et al., 2005g:81108**

Milson, Robert *see* **Gómez-Ullate Oteiza, D. et al., 2005g:81114**

Mostafazadeh, Ali Pseudo-Hermitian supersymmetry: a brief review. (English summary)

— Statistical origin of pseudo-Hermitian supersymmetry and pseudo-Hermitian fermions. (English summary) **2005h:81140**

Nagasawa, Tomoaki (*with* Sakamoto, Makoto[1]; Takenaga, Kazunori) Supersymmetry and discrete transformations on S^1 with point singularities. (English summary) **2005c:81070**

Nanayakkara, Asiri Comparison of quantal and classical behavior of PT-symmetric systems at avoided crossings. (English summary) **2005j:81066**

Neelov, A. I. *see* **Cannata, Francesco et al., 2005g:81111**

Negro, Javier *see* **Carballo, Juan M. et al., 2005g:81112** *and* **Aref'eva, I. Ya. et al.**

Nersesyan, A. P. *see* **Bellucci, Stefano et al., 2005i:81048** *and* **2005m:81115**

Nieto, Luis M. *see* **Carballo, Juan M. et al., 2005g:81112** *and* **Aref'eva, I. Ya. et al.**

Nishnianidze, D. N. *see* **Ioffe, Mikhail V., 2005d:81161** *and* **Cannata, Francesco et al., 2005g:81111**

Orazi, E. *see* **Bellucci, Stefano et al., 2005m:81115**

Parashar, Dayanand *see* **Parthasarathi et al., 2005b:81045**

Parthasarathi (*with* Parashar, Dayanand; Kaushal, R. S.) Complex phase space formulation of supersymmetric quantum mechanics: analysis and shape-invariant potentials. (English summary) **2005b:81045**

Plyushchaĭ, M. S. Nonlinear supersymmetry: from classical to quantum mechanics. (English summary) **2005g:81117**

Poppitz, Erich *see* **Giedt, Joel et al., 2005k:81092**

Qiang, Wen Chao (*with* Zhou, Run Suo; Gao, Yang) Supersymmetry and SWKB approach to the Dirac equation with a Coulomb potential in $2 + 1$ dimensions. (English summary) **2005g:81118**

Quesne, C. (*with* Tkachuk, Volodymyr M.) More on a SUSYQM approach to the harmonic oscillator with nonzero minimal uncertainties in position and/or momentum. (English summary) **2005g:81119**

— (*with* Tkachuk, Volodymyr M.) Dirac oscillator with nonzero minimal uncertainty in position. (English summary) **2005m:81120**

Rau, A. R. P. Supersymmetry in quantum mechanics: an extended view. (English summary) **2005g:81120**

Sadeghi, J. *see* **Fakhri, H., 2005a:81079**

Sakamoto, Makoto[1] *see* **Nagasawa, Tomoaki et al., 2005c:81070**

Sakhr, Jamal *see* **Bhaduri, Rajat K. et al., 2005m:81116**

Salinas-Hernández, Encarnación *see* **Fernández C., David J., 2005k:81091**

Samsonov, Boris F. SUSY transformations between diagonalizable and non-diagonalizable Hamiltonians. (English summary) **2005m:81121**

— *see also* **Aref'eva, I. Ya. et al.**

Sever, Ramazan *see* **Aktaş, Metin, 2005g:81107**

Shcherbakov, A. *see* **Bellucci, Stefano et al., 2005m:81114**

Shen, Qishun *see* **He, Ying[2] et al., 2005d:81160**

Spector, Donald *see* **Faux, Michael, 2005g:81113** *and* **2005m:81117**

Sprung, D. W. L. *see* **Bhaduri, Rajat K. et al., 2005m:81116**

Sukhatme, Uday *see* **Khare, Avinash, 2005k:81093**

Sukumar, C. V. (*with* Brink, D. M.) Supersymmetric quantum mechanics, orthogonal states and the Pauli exclusion principle. (English summary) **2005a:81080**

— Green's functions, sum rules and matrix elements for SUSY partners. (English summary) **2005g:81121**

Sutulin, A. *see* **Bellucci, Stefano et al., 2005j:81064**

Suzko, A. A. Intertwining technique for the matrix Schrödinger equation. (English summary) **2005k:81094**

Suzuki, Akira *see* **Bhaduri, Rajat K. et al., 2005m:81116**

Takenaga, Kazunori *see* **Nagasawa, Tomoaki et al., 2005c:81070**

Tateo, Roberto *see* **Dorey, Patrick et al.**

Tkachuk, Volodymyr M. *see* **Quesne, C., 2005g:81119** *and* **2005m:81120**

de la Torre Mayado, M. *see* **Alonso Izquierdo, A. et al., 2005g:81108**

Tsutsui, Izumi *see* **Uchino, Takashi, 2005b:81046**

Uchino, Takashi (*with* Tsutsui, Izumi) Supersymmetric quantum mechanics with a point singularity. (English summary) **2005b:81046**

Wipf, A. *see* **Kirchberg, A. et al., 2005m:81118**

Yavin, Tzahi *see* **Giedt, Joel et al., 2005k:81092**

Zhou, Run Suo *see* **Qiang, Wen Chao et al., 2005g:81118**

Znojil, Miloslav Re-establishing supersymmetry between harmonic oscillators in $D \neq 1$ dimensions. (English summary) **2005e:81073**

— New types of solvability in PT symmetric quantum theory. (English summary) **2005i:81049**

— Relativistic supersymmetric quantum mechanics based on Klein-Gordon equation. (English summary) **2005g:81122**

— $\mathcal{PT}$-symmetric regularizations in supersymmetric quantum mechanics. (English summary) **2005g:81123**

Items listed otherwise than by author

Errata:

"SUSYQM and other symmetries in quantum mechanics" Erratum: "SUSYQM and other symmetries in quantum mechanics" [J. Phys. A **37** (2004), no. 43, 10179–10191; MR2100330 (2005g:81116)] by G. Lévai. **2005h:81141**

Items with secondary classifications in 81Q60

Aleixo, A. N. F. (*with* Balantekin, A. B.) An algebraic construction of generalized coherent states for shape-invariant potentials. (English summary) **2005g:81150**

Balantekin, A. B. *see* **Aleixo, A. N. F., 2005g:81150**

Baleanu, Dumitru Reparametrization invariance and Hamilton-Jacobi formalism. (English summary) **2005c:70035**

Barea, J. (*with* Bijker, R.; Frank, Alejandro) A new look at nuclear supersymmetry through transfer experiments. (English summary)

Baye, Daniel (*with* Sparenberg, Jean-Marc) Inverse scattering with supersymmetric quantum mechanics. (English summary) **2005f:81288**

Bellucci, Stefano (*with* Ivanov, Evgeniĭ Alekseevich[2]; Krivonos, S. O.; Lechtenfeld, Olaf) $N = 8$ superconformal mechanics. (English summary) **2005c:81194**

Bijker, R. *see* **Barea, J. et al.**

Bzdak, A. (*with* Szwed, J.) The "square root" of the interacting Dirac equation. (English summary) **2005k:81304**

Caliceti, Emanuela (*with* Cannata, Francesco; Znojil, Miloslav; Ventura, Alberto) Construction of $\mathcal{PT}$-asymmetric non-Hermitian Hamiltonians with $\mathcal{CPT}$ symmetry. (English summary) **2005j:81052**

Campostrini, M. (*with* Wosiek, J.) High precision study of the structure of $D = 4$ supersymmetric Yang-Mills quantum mechanics. (English summary) **2005f:81238**

Cannata, Francesco *see* **Caliceti, Emanuela et al., 2005j:81052**

Cappiello, Luigi (*with* D'Ambrosio, Giancarlo) Supersymmetric dissipative quantum mechanics from superstrings. (English summary) **2005h:81357**

Cariñena, José F. (*with* Rañada, Manuel F.; Santander, Mariano) One-dimensional model of a quantum nonlinear harmonic oscillator. (English summary) **2005k:81056**

Caudrelier, V. (*with* Ragoucy, É.) Quantum resolution of the nonlinear super-Schrödinger equation. (English summary) **2005j:81073**
Chenaghlou, A. *see* **Fakhri, H., 2005i:81183**
Constantinescu, Florin Supersymmetric positivity and supersymmetric Hilbert space. (English summary) **2005a:81216**
D'Ambrosio, Giancarlo *see* **Cappiello, Luigi, 2005h:81357**
Desrosiers, Patrick (*with* Lapointe, Luc; Mathieu, Pierre[1]) Jack superpolynomials: physical and combinatorial definitions. (English summary) **2005j:33018**
Disertori, M. Density of states for GUE through supersymmetric approach. (English summary) **2005k:82051**
Fakhri, H. Superalgebras for the 3D harmonic oscillator and Morse quantum potentials. (English summary) **2005h:81151**
— (*with* Chenaghlou, A.) Extended supersymmetry for the bound states of the generalized Hulthén potential hierarchy. (English summary) **2005i:81183**
Frank, Alejandro *see* **Barea, J. et al.**
Frydryszak, Andrzej M. Dirac superfield quantization in odd superspace. (English summary) **2005j:81180**
Gaite, José Stochastic formulation of the renormalization group: supersymmetric structure and topology of the space of couplings. (English summary) **2005e:81149**
Galkin, Aleksandr Vladimirovich Equation for doublets of particles with half-integer spin and parasupersymmetry. (English summary) **2005d:81191**
Gönül, Bülent (*with* Koçak, M.) Systematic search of exactly solvable non-central potentials. (English summary) **2005m:81334**
Ilieva, Nevena (*with* Narnhofer, Heide; Thirring, Walter) Finite supersymmetry transformations. (English summary) **2005k:81318**
Ivanov, Evgeniĭ Alekseevich[2] *see* **Bellucci, Stefano et al., 2005c:81194**
Ju, Guo-Xing (*with* Ren, Zhongzhou) The eigenspectrum and hidden supersymmetry of the Dirac oscillator in $2+1$ dimensions. (English summary) **2005d:81372**
Khare, Avinash (*with* Sukhatme, Uday) Analytically solvable PT-invariant periodic potentials. (English summary) **2005c:81243**
Koçak, M. *see* **Gönül, Bülent, 2005m:81334**
Krivonos, S. O. *see* **Bellucci, Stefano et al., 2005c:81194**
Lapointe, Luc *see* **Desrosiers, Patrick et al., 2005j:33018**
Lechtenfeld, Olaf *see* **Bellucci, Stefano et al., 2005c:81194**
Lucietti, James A class of identities relating Whittaker and Bessel functions. (English summary) **2005d:33007**
Mathieu, Pierre[1] *see* **Desrosiers, Patrick et al., 2005j:33018**
Morales, Jesús *see* **Rubio-Ponce, A. et al., 2005m:82120**
Mostafazadeh, Ali $\mathscr{PT}$-symmetric quantum mechanics: a precise and consistent formulation. (English summary) **2005i:81041**
Narnhofer, Heide *see* **Ilieva, Nevena et al., 2005k:81318**
Negro, Javier (*with* Nieto, Luis M.; Rosas-Ortiz, J. Oscar) Regularized Scarf potentials: energy band structure and supersymmetry. (English summary) **2005k:81356**
Nieto, Luis M. *see* **Negro, Javier et al., 2005k:81356**
Pecheritsyn, A. A. *see* **Samsonov, Boris F., 2005c:81052**
Peña, J. J. *see* **Rubio-Ponce, A. et al., 2005m:82120**
Quesne, C. (*with* Tkachuk, Volodymyr M.) Deformed algebras, position-dependent effective masses and curved spaces: an exactly solvable Coulomb problem. (English summary) **2005e:81257**
Ragoucy, É. *see* **Caudrelier, V., 2005j:81073**
Rañada, Manuel F. *see* **Cariñena, José F. et al., 2005k:81056**
Ren, Zhongzhou *see* **Ju, Guo-Xing, 2005d:81372**
Rosas-Ortiz, J. Oscar *see* **Negro, Javier et al., 2005k:81356**
Rosenberg, Jonathan A selective history of the Stone-von Neumann theorem. (English summary) **2005h:46001**
Roy, Pinaki *see* **Sinha, Anjana, 2005f:81284**
Rubio-Ponce, A. (*with* Peña, J. J.; Morales, Jesús) One-parameter isospectral solutions for the Fokker-Planck equation. (English summary) **2005m:82120**
Sakhnovich, A. L. Non-Hermitian matrix Schrödinger equation: Bäcklund-Darboux transformation, Weyl functions and $\mathscr{PT}$ symmetry. (English summary) **2005h:81114**
Samsonov, Boris F. (*with* Pecheritsyn, A. A.) Chains of Darboux transformations for the matrix Schrödinger equation. (English summary) **2005c:81052**
Santander, Mariano *see* **Cariñena, José F. et al., 2005k:81056**
Sinha, Anjana (*with* Roy, Pinaki) New exactly solvable isospectral partners for $\mathscr{PT}$ symmetric potentials. (English summary) **2005f:81284**
Sparenberg, Jean-Marc *see* **Baye, Daniel, 2005f:81288**
Stahlhofen, A. A. Susy, Gauss, Heun and physics: a magic square? (English summary) **2005f:34252**
Sukhatme, Uday *see* **Khare, Avinash, 2005c:81243**
Szwed, J. *see* **Bzdak, A., 2005k:81304**
Thirring, Walter *see* **Ilieva, Nevena et al., 2005k:81318**
Tkachuk, Volodymyr M. *see* **Quesne, C., 2005e:81257**
Trzetrzelewski, M. (*with* Wosiek, J.) Quantum systems in a cut Fock space. (English summary) **2005e:81127**
Ventura, Alberto *see* **Caliceti, Emanuela et al., 2005j:81052**
Wosiek, J. *see* **Trzetrzelewski, M., 2005e:81127** *and* **Campostrini, M., 2005f:81238**
Znojil, Miloslav Experiments in $\mathscr{PT}$-symmetric quantum mechanics. (English summary) **2005e:81061**
— *see also* **Caliceti, Emanuela et al., 2005j:81052**

81Q70 Differential-geometric methods, including holonomy, Berry and Hannay phases, etc.

Abdel-Aziz, H. S. Geometric phase of a coupled system. (English summary) **2005m:81122**
Anandan, Jeeva S. *see* **Field, Timothy R., 2005e:81075**
Balakrishnan, Radha (*with* Satija, Indubala I.) Anholonomy and geometrical localization in dynamical systems. (English summary) **2005m:81123**
Bellissard, Jean The noncommutative geometry of aperiodic solids. **2005f:81077**
Bene, E. *see* **Vértesi, T., 2005h:81145**
Benvegnù, Alberto (*with* Sansonetto, Nicola; Spera, Mauro) Remarks on geometric quantum mechanics. (English summary) **2005e:81074**
Bérard, Alain (*with* Mohrbach, Hervé) Monopole and Berry phase in momentum space in noncommutative quantum mechanics. (English summary) **2005g:81124**
Berry, M. V. Physics of non-Hermitian degeneracies. (English summary) **2005h:81142**
Bertlmann, Reinhold A. (*with* Durstberger, Katharina; Hasegawa, Yuji[2]; Hiesmayr, Beatrix C.) Berry phase in entangled systems: a proposed experiment with single neutrons. (English summary) **2005a:81081**
Blasone, Massimo (*with* Jizba, Petr) Bateman's dual system revisited: quantization, geometric phase and relation with the ground-state energy of the linear harmonic oscillator. (English summary) **2005h:81143**
Carra, Paolo Interpreting Stone's model of Berry phases. (English summary) **2005d:81162**
Chaturvedi, S. (*with* Ercolessi, E.; Marmo, Giuseppe; Morandi, G.; Mukunda, N.; Simon, Rajiah) Geometric phase for mixed states: a differential geometric approach. (English summary) **2005c:81071**
(Chen, Jing-Ling) *see* **Sjöqvist, Erik, 2005c:81073**
Choi, M. Y. *see* **Lee, Minchul, 2005a:81082**
Chruściński, Dariusz (*with* Jamiołkowski, Andrzej) ★ Geometric phases in classical and quantum mechanics. **2005g:81125**
Duarte, Gerson *see* **Furtado, Claudio, 2005h:81144**
Durstberger, Katharina *see* **Bertlmann, Reinhold A. et al., 2005a:81081**
Ercolessi, E. *see* **Chaturvedi, S. et al., 2005c:81071**
Fan, X. J. *see* **Tong, Dian Min et al., 2005k:81095**
Field, Timothy R. (*with* Anandan, Jeeva S.) Geometric phases and coherent states. (English summary) **2005e:81075**
(Fu, Li-Bin) *see* **Sjöqvist, Erik, 2005c:81073**
Fujikawa, Kazuo Topological properties of Berry's phase. (English summary) **2005j:81067**
Furtado, Claudio (*with* Duarte, Gerson) Dual Aharonov-Bohm effect. (English summary) **2005h:81144**
Gefen, Yuval *see* **Whitney, Robert S. et al., 2005k:81096**
Harrison, Jonathan Michael (*with* Robbins, J. M.) Quantum indistinguishability from general representations of $SU(2n)$. (English summary) **2005d:81163**
Hartley, Julian (*with* Vedral, Vlatko) Entropy as a function of geometric phase. (English summary) **2005f:81078**
Hasegawa, Yuji[2] *see* **Bertlmann, Reinhold A. et al., 2005a:81081**
Hiesmayr, Beatrix C. *see* **Bertlmann, Reinhold A. et al., 2005a:81081**
Honnouvo, G. (*with* Hounkonnou, M. N.) Asymptotics of eigenvalues of the Aharonov-Bohm operator with a strong δ-interaction on a loop. (English summary) **2005c:81072**
Hounkonnou, M. N. *see* **Honnouvo, G., 2005c:81072**
Iwai, Toshihiro (*with* Yamaoka, Hidetaka) Stratified reduction of many-body kinetic energy operators. (English summary) **2005e:81076**
Jamiołkowski, Andrzej *see* **Chruściński, Dariusz, 2005g:81125**
Jizba, Petr *see* **Blasone, Massimo, 2005h:81143**
Keck, F. (*with* Korsch, H. J.; Mossmann, S.) Unfolding a diabolic point: a generalized crossing scenario. (English summary) **2005e:81077**
Korsch, H. J. *see* **Keck, F. et al., 2005e:81077**
Kwek, L. C. *see* **Tong, Dian Min et al., 2005k:81095**
Lee, Minchul (*with* Choi, M. Y.) Correspondences and quantum description of Aharonov-Bohm and Aharonov-Casher effects. (English summary) **2005a:81082**
Lévay, Péter Thomas rotation and the mixed state geometric phase. (English summary) **2005d:81164**
Makhlin, Yuriy *see* **Whitney, Robert S. et al., 2005k:81096**
Marmo, Giuseppe *see* **Chaturvedi, S. et al., 2005c:81071**
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Simon, Rajiah *see* **Chaturvedi, S. et al., 2005c:81071**
Singh, Kuldip[2] *see* **Tong, Dian Min et al., 2005k:81095**
Sjöqvist, Erik Comment on: "Geometric phases for mixed states during cyclic evolutions" [J. Phys. A **37** (2004), no. 11, 3699–3705; MR2042151 (2004m:81089)] by L.-B. Fu and J.-L. Chen. (English summary) **2005c:81073**
Spallicci, Alessandro D. A. M. Satellite measurement of the Hannay angle. (English summary) **2005m:81124**
Spera, Mauro *see* **Benvegnù, Alberto et al., 2005e:81074**
Tong, Dian Min (*with* Singh, Kuldip[2]; Kwek, L. C.; Fan, X. J.; Oh, Choo Hiap) A note on the geometric phase in adiabatic approximation. (English summary) **2005k:81095**
Vedral, Vlatko *see* **Hartley, Julian, 2005f:81078**
Vértesi, T. (*with* Bene, E.) On the detectability of threefold degeneracies of real Hamiltonians. (English summary) **2005h:81145**
Wang, L. C. *see* **Yi, X. X. et al., 2005a:81083**
Whitney, Robert S. (*with* Makhlin, Yuriy; Shnirman, Alexander; Gefen, Yuval) Geometric nature of the environment-induced Berry phase and geometric dephasing. (English summary) **2005k:81096**
Yamaoka, Hidetaka *see* **Iwai, Toshihiro, 2005e:81076**
Yi, X. X. (*with* Wang, L. C.; Zheng, Tai-Yu) Berry phase in a composite system. (English summary) **2005a:81083**
Zheng, Tai-Yu *see* **Yi, X. X. et al., 2005a:81083**

Items with secondary classifications in 81Q70

Blackmore, D. L. *see* **Samoĭlenko, Anatoliĭ Mikhaĭlovich et al., 2005d:81099**
Borg, J. L. (*with* Pulé, Joseph V.) Pauli approximations to the self-adjoint extensions of the Aharonov-Bohm Hamiltonian. (English summary) **2005d:81129**
Bounames, A. *see* **Ferkous, N.**
Buongiorno Nardelli, Marco *see* **Fattebert, Jean-Luc, (2005c:81001)**

Chandelier, F. (*with* Georgelin, Y.; Masson, Thierry; Wallet, J. C.) Quantum Hall conductivity in a Landau type model with a realistic geometry. II. (English summary) **2005m:81351**
Cheng, Kai Ming *see* **Wong, Hon Man et al., 2005k:81041**
Chu, M.-C. *see* **Wong, Hon Man et al., 2005k:81041**
Durstberger, Katharina Berry phase in an entangled spin-$\frac{1}{2}$ system. (English summary) **2005k:81007**
Fattebert, Jean-Luc (*with* Buongiorno Nardelli, Marco) Finite difference methods for ab initio electronic structure and quantum transport calculations of nanostructures. (*see* **2005c:81001**)
Ferkous, N. (*with* Bounames, A.) Energy spectrum of a 2D Dirac oscillator in the presence of the Aharonov-Bohm effect. (English summary)
Ferrari, Franco Topologically linked polymers are anyon systems. (English summary) **2005h:82123**
Georgelin, Y. *see* **Chandelier, F. et al., 2005m:81351**
Giachetta, G. (*with* Mangiarotti, L.; Sardanashvili, G. A.) Nonadiabatic holonomy operators in classical and quantum completely integrable systems. (English summary) **2005b:81054**
Giorgadze, Gia On the quantum computing based on the monodromy representation.
de Gosson, Maurice A. On the notion of phase in mechanics. (English summary) **2005d:70008**
Gubarev, F. V. (*with* Zakharov, V. I.) The Berry phase and monopoles in gluodynamics. (English summary)
Ito, Hiroshi T. (*with* Tamura, Hideo) Aharonov-Bohm effect in scattering by a chain of point-like magnetic fields. (English summary) **2005b:81226**
Khalilov, V. R. Dirac electron in Aharonov-Bohm and planar Coulomb potentials. (English summary) **2005c:81047**
Lidar, Daniel A. *see* **Sarandy, M. S. et al., 2005j:82049**
Lisok, A. L. (*with* Trifonov, A. Yu.; Shapovalov, A. V.) The evolution operator of the Hartree-type equation with a quadratic potential. (English summary) **2005b:35236**
— *see also* **Shapovalov, A. V. et al., 2005d:81152**
Mangiarotti, L. *see* **Giachetta, G. et al., 2005b:81054**
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Pulé, Joseph V. *see* **Borg, J. L., 2005d:81129**
Samoĭlenko, Anatoliĭ Mikhaĭlovich (*with* Prikarpat·s'kiĭ, Ya. A.; Taneri, Ufuk; Prikarpat·skiĭ, A. K.; Blackmore, D. L.) A geometrical approach to quantum holonomic computing algorithms. (English summary) **2005d:81099**
Sarandy, M. S. (*with* Wu, Lian Ao; Lidar, Daniel A.) Consistency of the adiabatic theorem. (English summary) **2005j:82049**
Sardanashvili, G. A. *see* **Giachetta, G. et al., 2005b:81054**
Shapovalov, A. V. (*with* Trifonov, A. Yu.; Lisok, A. L.) Semiclassical approach to the geometric phase theory for the Hartree type equation. (English summary) **2005d:81152**
— *see also* **Lisok, A. L. et al., 2005b:35236**
Sitko, Piotr Charge and statistics of quasiholes in Pfaffian states of composite fermion excitations. (English summary) **2005c:82012**
Solinas, Paolo (*with* Zanardi, Paolo; Zanghì, Nino) Robustness of non-Abelian holonomic quantum gates against parametric noise. (English summary)
Tamura, Hideo *see* **Ito, Hiroshi T., 2005b:81226**
Taneri, Ufuk *see* **Samoĭlenko, Anatoliĭ Mikhaĭlovich et al., 2005d:81099**
Trifonov, A. Yu. *see* **Lisok, A. L. et al., 2005b:35236** *and* **Shapovalov, A. V. et al., 2005d:81152**
Wallet, J. C. *see* **Chandelier, F. et al., 2005m:81351**
Wong, Hon Man (*with* Cheng, Kai Ming; Chu, M.-C.) Quantum geometric phase between orthogonal states. (English summary) **2005k:81041**
Wu, Lian Ao *see* **Sarandy, M. S. et al., 2005j:82049**
Zakharov, V. I. *see* **Gubarev, F. V.**
Zanardi, Paolo *see* **Solinas, Paolo et al.**
Zanghì, Nino *see* **Solinas, Paolo et al.**

81Q99 None of the above, but in this section

Ali, M. K. *see* **Andrecut, M., 2005g:81126**
Andrecut, M. (*with* Ali, M. K.) Maximum speed of quantum evolution. (English summary) **2005g:81126**
Azevedo, Julio C. S. *see* **Segatto, Breno R. et al., 2005b:81049a** *and* **2005b:81049b**
Berberan-Santos, Mário N. (*with* Bodunov, Evgeny N.; Pogliani, Lionello) Classical and quantum study of the motion of a particle in a gravitational field. (English summary)
Bernard, Claude W. (*with* Savage, Van M.) $\mathcal{PT}$-symmetric quantum field theories and the Langevin equation. (English summary) **2005f:81079**
Blasi, Alberto (*with* Scolarici, Giuseppe; Solombrino, L.) Quasianti-hermiticity and quaternionic quantum systems. (English summary) **2005g:81127**
— (*with* Scolarici, Giuseppe; Solombrino, L.) Alternative descriptions in quaternionic quantum mechanics. (English summary) **2005m:81125**
Bodunov, Evgeny N. *see* **Berberan-Santos, Mário N. et al.**
Boghosian, Bruce M. *see* **Love, Peter J., 2005b:81048**
Brown, Eric *see* **Rabitz, Herschel et al., (2005c:81001)**
Brüning, Jochen (*with* Exner, Pavel; Geĭler, V. A.) Large gaps in point-coupled periodic systems of manifolds. (English summary) **2005f:81080**
Buslaev, V. S. (*with* Grinina, E. A.) Some remarks on the quantum adiabatic theorem. (Russian) **2005i:81050**
Calder, Matt S. (*with* Kempf, Achim) Analysis of superoscillatory wave functions. (English summary) **2005k:81097**
Camblong, Horacio E. (*with* Ordóñez, Carlos R.) Anomaly in conformal quantum mechanics: from molecular physics to black holes. (English summary) **2005d:81165**
Cheon, Taksu (*with* Exner, Pavel) An approximation to δ' couplings on graphs. (English summary) **2005d:81166**
Cong, Shuang Establishment of state space model in quantum systems control. (Chinese. English and Chinese summaries)
Cordes, Heinz Otto A precise pseudodifferential Foldy-Wouthuysen transform for the Dirac equation. (English summary) **2005c:81074**
Dürr, Detlef (*with* Figari, Rodolfo; Teta, Alessandro) Decoherence in a two-particle model. (English summary) **2005e:81078**
Exner, Pavel *see* **Cheon, Taksu, 2005d:81166** *and* **Brüning, Jochen et al., 2005f:81080**
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Galeriu, C. *see* **Willatzen, Morten et al., 2005c:81076**
Geĭler, V. A. *see* **Brüning, Jochen et al., 2005f:81080**
Giachetti, Riccardo (*with* Sorace, E.) Two fermion relativistic bound states. (English summary) **2005h:81146**
Grinina, E. A. *see* **Buslaev, V. S., 2005i:81050**
Haken, Hermann Quantum fluctuations of elementary excitations in discrete media. (English summary) (*see* **2005d:00011**)
Jiang, Tongsong An algorithm for quaternionic linear equations in quaternionic quantum theory. (English summary) **2005h:81147**
Karwowski, Witold (*with* Vilela Mendes, Rui) Quantum control in infinite dimensions. (English summary) **2005a:81084**
Kempf, Achim *see* **Calder, Matt S., 2005k:81097**
Kobayashi, Tsunehiro Zero-energy flows and vortex patterns in quantum mechanics. (English summary) **2005i:81051**
Kostrykin, Vadim (*with* Schrader, Robert) Quantum wires with magnetic fluxes. (English summary) **2005b:81047**
Kosut, Robert L. (*with* Rabitz, Herschel; Walmsley, Ian A.) Indirect adaptive control of quantum systems. (English summary) (*see* **2005b:93007**)
Kuchment, Peter Quantum graphs. I. Some basic structures. (English summary) **2005h:81148**
Lew Yan Voon, L. C. *see* **Willatzen, Morten et al., 2005c:81076**
Love, Peter J. (*with* Boghosian, Bruce M.) Quaternionic Madelung transformation and non-abelian fluid dynamics. (English summary) **2005b:81048**
Maday, Yvon (*with* Salomon, Julien; Turinici, Gabriel) Discretely monotonically convergent algorithms in quantum control. (English summary) (*see* **2005b:93007**)
Melnik, Roderick V. N. *see* **Willatzen, Morten et al., 2005c:81076**
Ordóñez, Carlos R. *see* **Camblong, Horacio E., 2005d:81165**
Palmer, Carl (*with* Stavrinou, P. N.) Equations of motion in a non-integer-dimensional space. (English summary) **2005g:81128**
Pogliani, Lionello *see* **Berberan-Santos, Mário N. et al.**
Pullen, Ivan C. H. *see* **Schirmer, Sonia G. et al., (2005b:93007)**
Rabitz, Herschel (*with* Turinici, Gabriel; Brown, Eric) Control of quantum dynamics: concepts, procedures and future prospects. (*see* **2005c:81001**)
— *see also* **Kosut, Robert L. et al., (2005b:93007)**
Ralko, A. (*with* Truong, T. T.) Exact energy levels and magnetization of two identical planar charged particles in quantum dots. (English summary) **2005c:81075**
Rotter, I. (*with* Sadreev, A. F.) Zeros in single-channel transmission through double quantum dots. (English summary)
Rouchon, Pierre[!] Control of a quantum particle in a moving potential well. (English summary) (*see* **2005b:93007**)
Ryan, Michael P., Jr. (*with* Turbiner, A. V.) The conformally invariant Laplace-Beltrami operator and factor ordering. (English summary) **2005h:81149**
Sadreev, A. F. *see* **Rotter, I.**
Salomon, Julien *see* **Maday, Yvon et al., (2005b:93007)**
Savage, Van M. *see* **Bernard, Claude W., 2005f:81079**
Schirmer, Sonia G. (*with* Pullen, Ivan C. H.; Solomon, Allan I.) Controllability of quantum systems. (English summary) (*see* **2005b:93007**)
Schrader, Robert *see* **Kostrykin, Vadim, 2005b:81047**
Scolarici, Giuseppe Pseudo-Hermitian Hamiltonians and generalized involutory symmetries. (English summary) **2005d:81167**
— *see also* **Blasi, Alberto et al., 2005g:81127** *and* **2005m:81125**
Segatto, Breno R. (*with* Azevedo, Julio C. S.; de Souza, Manoelito M.) Harmonic potential as an effective limit of a discrete classical interaction. (English summary) **2005b:81049a**
— (*with* Azevedo, Julio C. S.; de Souza, Manoelito M.) Corrigendum: "Harmonic potential as an effective limit of a discrete classical interaction". **2005b:81049b**
Solombrino, L. *see* **Blasi, Alberto et al., 2005g:81127** *and* **2005m:81125**
Solomon, Allan I. *see* **Schirmer, Sonia G. et al., (2005b:93007)**
Sorace, E. *see* **Giachetti, Riccardo, 2005h:81146**
de Souza, Manoelito M. *see* **Segatto, Breno R. et al., 2005b:81049a** *and* **2005b:81049b**
Stavrinou, P. N. *see* **Palmer, Carl, 2005g:81128**
Teta, Alessandro *see* **Dürr, Detlef et al., 2005e:81078**
Truong, T. T. *see* **Ralko, A., 2005c:81075**
Turbiner, A. V. *see* **Ryan, Michael P., Jr., 2005h:81149**
Turinici, Gabriel Monotonically convergent algorithms for bounded quantum controls. (English summary) (*see* **2005b:93007**)
— *see also* **Rabitz, Herschel et al., (2005c:81001)** *and* **Maday, Yvon et al., (2005b:93007)**
Vilela Mendes, Rui *see* **Karwowski, Witold, 2005a:81084**
Walmsley, Ian A. *see* **Kosut, Robert L. et al., (2005b:93007)**
Willatzen, Morten (*with* Melnik, Roderick V. N.; Galeriu, C.; Lew Yan Voon, L. C.) Quantum confinement phenomena in nanowire superlattice structures. (English summary) **2005c:81076**
Zavalishchin, D. S. (*with* Zavalishchin, S. T.) Optimization of the kinetic energy of quantum objects by impulse fields. (English summary) **2005g:81129**
Zavalishchin, S. T. *see* **Zavalishchin, D. S., 2005g:81129**

Items with secondary classifications in 81Q99

Accardi, Luidgi (*with* Nahni, Marcolino) Interacting Fock spaces and orthogonal polynomials in several variables. (English summary) **2005h:81181**
Ahmedov, Hadji (*with* Duru, I. H.) Casimir energy inside a cavity with triangular cross section. (English summary) **2005b:81093**
Albertini, Francesca (*with* D'Alessandro, Domenico) Control of the evolution of Heisenberg spin systems. (English summary) **2005m:93071**

Anan'evskiĭ, M. S. (*with* Fradkov, A. L.) Control of observables in finite-level quantum systems. (Russian. Russian summary) **2005m:93055**
Arkhipov, A. S. (*with* Lozovik, Yu. E.) New method of quantum dynamics simulation based on the quantum tomography. (English summary) **2005d:81004**
Armour, E. A. G. (*with* Richard, J.-M.; Varga, Kálmán) Stability of few-charge systems in quantum mechanics. (English summary) **2005m:81350**
Balodis, Pedro A proof of Scott's correction for matter. (English summary) **2005m:81348**
Bellucci, Stefano (*with* Nersesyan, A. P.; Yeranyan, A. H.) Quantum mechanics model on a Kähler conifold. (English summary) **2005h:81188**
Bloch, Anthony M. (*with* Rojo, Alberto G.) Control of squeezed phonon and spin states. (English summary) (*see* **2005b:93007**)
— (*with* Rojo, Alberto G.) Control of squeezed phonon and spin states. (English summary) **2005k:93097**
Carbó-Dorca, Ramon Non-linear terms & variational approach in quantum QSPR. (English summary) **2005i:81191**
de Castro, Antonio S. Bound states of the Dirac equation for a class of effective quadratic plus inversely quadratic potentials. (English summary) **2005b:81031**
Chekanov, N. A. *see* **Gusev, Aleksandr A. et al., 2005m:81005**
Colosi, Daniele (*with* Rovelli, Carlo) Simple background-independent Hamiltonian quantum model. (English summary) **2005d:83044**
Cristofano, Gerardo (*with* Marotta, Vincenzo; Naddeo, Adele) A twisted conformal field theory description of dissipative quantum mechanics. (English summary) **2005f:81208**
D'Alessandro, Domenico *see* **Albertini, Francesca, 2005m:93071**
Denisov, S. A. The theory of orthogonal polynomials and some applications. (English summary) **2005k:41009**
Drago, Antonino (*with* Esposito, Salvatore) Following Weyl on quantum mechanics: the contribution of Ettore Majorana. (English summary) **2005g:81002**
Duru, I. H. *see* **Ahmedov, Hadji, 2005b:81093**
Esposito, Salvatore *see* **Drago, Antonino, 2005g:81002**
Ferrante, Augusto *see* **Ticozzi, Francesco et al., 2005g:93039**
Fradkov, A. L. *see* **Anan'evskiĭ, M. S., 2005m:93055**
Geyer, Hendrik B. Non-Hermiticity, boson realizations, and the role of a physical subspace. (English summary) **2005d:81395**
Gusev, Aleksandr A. (*with* Chekanov, N. A.; Rostovtsev, V. A.; Vinitskiĭ, S. I.; Uwano, Yoshio) A comparison of algorithms for the normalization and quantization of polynomial Hamiltonians. (Russian. Russian summary) **2005m:81005**
Jiang, Tongsong An algorithm for eigenvalues and eigenvectors of quaternion matrices in quaternionic quantum mechanics. (English summary) **2005h:15054**
Khrennikov, Andrei Yu. ★ Неархимедов анализ и его приложения. (Russian) [Non-Archimedean analysis and its applications] **2005c:46111**
— *p*-adic discrete dynamical systems and their applications in physics and cognitive sciences. (English summary) **2005m:37110**
Kieu, Tien D. A reformulation of Hilbert's tenth problem through quantum mechanics. (English summary) **2005m:11233**
Korotyaev, E. L. (*with* Kutsenko, Anton) An inverse problem for the discrete periodic Schrödinger operator. (Russian. English and Russian summaries) **2005h:47061**
Kuchment, Peter Differential and pseudo-differential operators on graphs as models of mesoscopic systems. (English summary) **2005b:82104**
Kutsenko, Anton *see* **Korotyaev, E. L., 2005h:47061**
Labuschagne, Louis E. (*with* Majewski, Władysław A.) Quantum recurrences versus stability. (English summary) **2005e:81049**
Lev, F. M. Massless elementary particles in quantum theory over a Galois field. (Russian. Russian summary) **2005e:81264**
Lew Yan Voon, L. C. *see* **Willatzen, Morten, (2005g:65009)**
Li, Chun Wen *see* **Zhang, Jing[12] et al.**
Lohe, M. A. (*with* Thilagam, A.) Quantum mechanical models in fractional dimensions. (English summary) **2005g:81161**
Lozovik, Yu. E. *see* **Arkhipov, A. S., 2005d:81004**
Majewski, Władysław A. *see* **Labuschagne, Louis E., 2005e:81049**
Marotta, Vincenzo *see* **Cristofano, Gerardo et al., 2005f:81208**
Mestel, B. D. (*with* Osbaldestin, Andrew H.) Renormalization of correlations in a quasiperiodically forced two-level system: quadratic irrationals. (English summary) **2005g:37165**
Mirrahimi, Mazyar (*with* Rouchon, Pierre[1]) Controllability of quantum harmonic oscillators. (English summary) **2005a:93023**
Mnatsakanova, M. N. *see* **Vernov, Yu. S., 2005c:81108**
Naddeo, Adele *see* **Cristofano, Gerardo et al., 2005f:81208**
Nahni, Marcolino *see* **Accardi, Luidgi, 2005h:81181**
Nersesyan, A. P. *see* **Bellucci, Stefano et al., 2005h:81188**
Osbaldestin, Andrew H. *see* **Mestel, B. D., 2005g:37165**
Pavon, Michele *see* **Ticozzi, Francesco et al., 2005g:93039**
Polyakov, S. V. A numerical method for simulation of nonlinear electron transport in a quantum wire. (English summary) (*see* **2005c:65004**)
Richard, J.-M. *see* **Armour, E. A. G. et al., 2005m:81350**
Rojo, Alberto G. *see* **Bloch, Anthony M., 2005k:93097** *and* **(2005b:93007)**
Rostovtsev, V. A. *see* **Gusev, Aleksandr A. et al., 2005m:81005**
Rouchon, Pierre[1] *see* **Mirrahimi, Mazyar, 2005a:93023**
Rovelli, Carlo *see* **Colosi, Daniele, 2005d:83044**
Salesi, Giovanni Nonrelativistic classical mechanics for spinning particles. (English summary) **2005k:70043**
Tezer-Sezgin, M. (*with* Verdiev, Ĭ. A.) Laplace-Beltrami operator on symmetric space $X \equiv SO_0(2,3)/SO(2) \times SO(3)$ of rank 2 and the related 2-body one dimensional quantum systems. (English summary) **2005g:43016**
Thilagam, A. *see* **Lohe, M. A., 2005g:81161**
Ticozzi, Francesco (*with* Ferrante, Augusto; Pavon, Michele) Robust steering of *n*-level quantum systems. (English summary) **2005g:93039**
Uwano, Yoshio *see* **Gusev, Aleksandr A. et al., 2005m:81005**
Varadarajan, V. S. Arithmetic quantum physics: why, what, and whither. (English summary) **2005g:11262**
Varga, Kálmán *see* **Armour, E. A. G. et al., 2005m:81350**
Verdiev, Ĭ. A. *see* **Tezer-Sezgin, M., 2005g:43016**
Vernov, Yu. S. (*with* Mnatsakanova, M. N.) Commutation relations in a space with an indefinite metric. (Russian. Russian summary) **2005c:81108**
Vinitskiĭ, S. I. *see* **Gusev, Aleksandr A. et al., 2005m:81005**
Willatzen, Morten (*with* Lew Yan Voon, L. C.) Quantum dot and acoustic enclosure problems in lens-shaped structures. (English summary) (*see* **2005g:65009**)
Wu, Re Bing *see* **Zhang, Jing[12] et al.**
Yarman, Tolga The general equation of motion via the special theory of relativity and quantum mechanics. (English summary)
Yeranyan, A. H. *see* **Bellucci, Stefano et al., 2005h:81188**
Yu, Xue Gang[1] (*with* Yu, Xue Qian) The geometrical interpretation of uncertainty relation in Minkowski space. (English summary)
Yu, Xue Qian *see* **Yu, Xue Gang[1]**
Zhang, Jing[12] (*with* Li, Chun Wen; Wu, Re Bing) Output feedback control of quantum mechanical systems. (Chinese. English and Chinese summaries)

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81R05 Finite-dimensional groups and algebras motivated by physics and their representations [see also 20C35, 22E70]

Aceves de la Cruz, Fermín *see* **Nesterov, A. I., 2005e:81085**
Alcarás, J. A. Castilho (*with* Tambergs, J.; Krasta, T.; Ruža, J.; Katkevičius, O.) Plethysms and interacting boson models. (English summary) **2005f:81081**
Ališauskas, Sigitas Addendum: "Coupling coefficients of SO(n) and integrals involving Jacobi and Gegenbauer polynomials" [J. Phys. A **35** (2002), no. 34, 7323–7345; MR1945516 (2004c:81100)]. (English summary) **2005c:81077**
Anderson, Gregory W. (*with* Blažek, Tomáš) E_6 unification model building. III. Clebsch-Gordan coefficients in E_6 tensor products of the 27 with higher dimensional representations. (English summary) **2005h:81150**
Andriopoulos, K. (*with* Leach, P. G. L.) Some group theoretical aspects of nonlinear quantal oscillators. (English summary) **2005k:81098**
Aubert, S. (*with* Lam, Chi-Sing) Invariant and group theoretical integrations over the U(n) group. (English summary) **2005e:81079**
Bacry, Henri The foundations of the Poincaré group and the validity of general relativity. (English summary) **2005e:81080**
Barbosa, Marconi Soares (*with* de Sousa Bernardes, Esmerindo) Differential invariants for symplectic Lie algebras realized by boson operators. (English summary) **2005d:81168**
Blažek, Tomáš *see* **Anderson, Gregory W., 2005h:81150**
Burlankov, D. E. The space SU_3 and its quotient spaces. (Russian. Russian summary) **2005a:81085**
Byun, Yanghyun Lorentz invariant decompositions of the state vector spaces and the basis problem. (English summary)
Calles, A. *see* **Yépez, E. et al., 2005k:81102**
Carmeli, Claudio (*with* Heinonen, Teiko; Toigo, Alessandro) Position and momentum observables on $\mathbb{R}$ and on $\mathbb{R}^3$. (English summary) **2005f:81082**
Castro, J. J. *see* **Yépez, E. et al., 2005k:81102**
Chen, Jun-Hua *see* **Fan, Hong Yi[1], 2005e:81082**
Damnjanović, M. (*with* Milošević, I.; Vuković, T.; Marinković, T.) Wigner-Eckart theorem in the inductive spaces and applications to optical transitions in nanotubes. (English summary) **2005e:81081**
Debergh, N. (*with* Van den Bossche, B.) Differential realizations of polynomial algebras in finite-dimensional spaces of monomials. (English summary) **2005g:81130**
Digernes, Trond (*with* Varadarajan, V. S.) Models for the irreducible representation of a Heisenberg group. (English summary) **2005g:81131**
Dixon, Geoffrey Division algebras: family replication. (English summary) **2005g:81132**
Dvoeglazov, V. V. Antisymmetric tensor fields, 4-potentials and indefinite metrics. (English summary)
Fakhri, H. (*with* Sadeghi, J.) Embedding of dynamical symmetry groups U(1, 1) and U(2) of a free particle on AdS_2 and S^2 into parasupersymmetry algebra. (English summary) **2005f:81083**
— Superalgebras for the 3D harmonic oscillator and Morse quantum potentials. (English summary) **2005h:81151**
— (*with* Shariati, M.) Landau levels on the hyperbolic plane. (English summary) **2005f:81084**
Fan, Hong Yi[1] (*with* Chen, Jun-Hua) EPR entangled states for bipartite kinematics and new bosonic representation of SU(2) algebra. (English summary) **2005e:81082**
— New operator ordering formulas related to Hermite polynomials derived by virtue of IWOP technique. (English summary) **2005j:81068**
— (*with* Li, Chao[3]) A group property for the coherent state representation of fermionic squeezing operators. (English summary)
— *see also* **Jiang, Nian-Quan, 2005i:81052**
Feinsilver, Philip (*with* Kocik, Jerzy; Schott, René) Representations of the Schrödinger algebra and Appell systems. (English summary) **2005a:81086**
Fukuyama, Takeshi (*with* Ilakovac, Amon; Kikuchi, Tatsuru; Meljanac, Stjepan; Okada, Nobuchika) SO(10) group theory for the unified model building. (English summary) **2005j:81069**
Gerry, Christopher C. On the Clebsch-Gordan problem for SU(1, 1): coupling nonstandard representations. (English summary) **2005d:81169**
— Infinite statistics and the SU(1, 1) phase operator. (English summary) **2005k:81099**
Gheorghe, Alexandru Cezar (*with* Raduta, A. A.) New results for the missing quantum numbers labelling the quadrupole and octupole boson basis. (English summary) **2005g:81133**
Gu, Xiao-Yan *see* **Ma, Zhong Qi, 2005c:81079**
Guhr, Thomas (*with* Kohler, Heiner) Angular Gelfand-Tzetlin coordinates for the supergroup UOSp($k_1/2k_2$). (English summary) **2005m:81126**
Havlíček, Miloslav (*with* Patera, Jiří; Pelantová, Edita; Tolar, Jiří) On Pauli graded contractions of sl(3, $\mathbb{C}$). (English summary) **2005j:81070**

Hecht, K. T. The perturbed Dirac-Coulomb problem via SO(2, 1) algebra. A dilemma! (*see* **2005b:00031**)
Heinonen, Teiko *see* **Carmeli, Claudio et al., 2005f:81082**
Ilakovac, Amon *see* **Fukuyama, Takeshi et al., 2005j:81069**
Il'in, O. V. Oscillator-fermionic representations of simple Lie algebras of the series B_n. (Russian. Russian summary) **2005g:81134**
Jiang, Nian-Quan (*with* Fan, Hong Yi[1]) Fractional entangled Fourier transform and non-unitary SU(2) bosonic operator realization. (English summary) **2005i:81052**
Joyce, William P. Quark state confinement as a consequence of the extension of the Bose-Fermi recoupling to SU(3) colour. (English summary) **2005a:81087**
Karasëv, V. P. Dual algebraic pairs and polynomial Lie algebras in quantum physics: foundations and geometric aspects. (English summary) **2005g:81135**
Katkevičius, O. *see* **Alcarás, J. A. Castilho et al., 2005f:81081**
(Khan, Abu M.) *see* **Errata: "Continuous spin representations from group contraction"**
Kikuchi, Tatsuru *see* **Fukuyama, Takeshi et al., 2005j:81069**
King, Ronald C. (*with* Palev, T. D.; Stoilova, N. I.; Van der Jeugt, Joris) A non-commutative n-particle 3D Wigner quantum oscillator. (English summary) **2005a:81088**
Kisil, Vladimir V. p-mechanics as a physical theory: an introduction. (English summary) **2005c:81078**
Kocik, Jerzy *see* **Feinsilver, Philip et al., 2005a:81086**
Kohler, Heiner *see* **Guhr, Thomas, 2005m:81126**
Krasta, T. *see* **Alcarás, J. A. Castilho et al., 2005f:81081**
Lam, Chi-Sing *see* **Aubert, S., 2005e:81079**
Leach, P. G. L. *see* **Andriopoulos, K., 2005k:81098**
Li, Chao[3] *see* **Fan, Hong Yi[1]**
Loboda, A. V. Three-dimensional real Lie subalgebras of the matrix algebra $M(2, \mathbb{C})$. (English summary) **2005e:81083**
Ma, Zhong Qi (*with* Gu, Xiao-Yan) ★Problems & solutions in group theory for physicists. **2005c:81079**
Macfarlane, A. J. Group theoretic preliminaries to the solution of the Schrödinger equation for the manifold $SU(4)/S(U(2) \times U(2))$. (English summary) **2005e:81084**
Marinković, T. *see* **Damnjanović, M. et al., 2005e:81081**
Meljanac, Stjepan *see* **Fukuyama, Takeshi et al., 2005j:81069**
de Mello, R. O. (*with* Rivelles, Victor O.) The irreducible unitary representations of the extended Poincaré group in $(1 + 1)$ dimensions. (English summary) **2005b:81050**
Milošević, I. *see* **Damnjanović, M. et al., 2005e:81081**
Moses, Harry E. The role of the irreducible representations of the Poincaré group in solving Maxwell's equations. (English summary) **2005b:81051**
Nesterov, A. I. (*with* Aceves de la Cruz, Fermín) On representations of the rotation group and magnetic monopoles. (English summary) **2005e:81085**
Okada, Nobuchika *see* **Fukuyama, Takeshi et al., 2005j:81069**
Palev, T. D. (*with* Stoilova, N. I.; Van der Jeugt, Joris) Microscopic and macroscopic properties of A-superstatistics. (English summary) **2005b:81052**
— *see also* **King, Ronald C. et al., 2005a:81088**
Patera, Jiří *see* **Havlíček, Miloslav et al., 2005j:81070**
Pelantová, Edita *see* **Havlíček, Miloslav et al., 2005j:81070**
Ping, Jia Lun Algebraic solutions for point groups. (English summary) (*see* **2005b:00031**)
da Providência, Constança *see* **Yamamura, Masatoshi et al., 2005m:81127**
da Providência, João *see* **Yamamura, Masatoshi et al., 2005m:81127**
da Providência, João, Jr. *see* **Yamamura, Masatoshi et al., 2005m:81127**
Raduta, A. A. *see* **Gheorghe, Alexandru Cezar, 2005g:81133**
(Ramond, Pierre) *see* **Errata: "Continuous spin representations from group contraction"**
Rasch, J. (*with* Yu, A. C. H.) Efficient storage scheme for precalculated Wigner $3j$, $6j$ and Gaunt coefficients. (English summary) **2005k:81100**
Rasetti, Mario A fully consistent Lie algebraic representation of quantum phase and number operators. (English summary) **2005f:81085**
Rausch de Traubenberg, M. Four dimensional cubic supersymmetry. (English summary) **2005d:81170**
Repka, J. *see* **Rowe, David J. et al., 2005c:81080**
Rivelles, Victor O. *see* **de Mello, R. O., 2005b:81050**
Rowe, David J. (*with* Turner, P. S.; Repka, J.) Spherical harmonics and basic coupling coefficients for the group SO(5) in an SO(3) basis. (English summary) **2005c:81080**
Ruan, Dong (*with* Sun, Hong-Zhou) Nonlinear dynamical symmetries of some two-dimensional quantum systems. (English summary) **2005k:81101**
Ruža, J. *see* **Alcarás, J. A. Castilho et al., 2005f:81081**
Sadeghi, J. *see* **Fakhri, H., 2005f:81083**
Saller, Heinrich Matter as spectrum of spacetime representations. (English summary) **2005h:81152**
Schott, René *see* **Feinsilver, Philip et al., 2005a:81086**
Shariati, M. *see* **Fakhri, H., 2005f:81084**
Soroka, Dmitrij V. (*with* Soroka, Vyacheslav A.) Tensor extension of the Poincaré algebra. (English summary) **2005i:81053**
Soroka, Vyacheslav A. *see* **Soroka, Dmitrij V., 2005i:81053**
Soto, J. R. *see* **Yépez, E. et al., 2005k:81102**
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Sun, Hong-Zhou *see* **Ruan, Dong, 2005k:81101**
Tambergs, J. *see* **Alcarás, J. A. Castilho et al., 2005f:81081**
Temme, F. P. Erratum: "Quasi-particle dual mappings on $\{\widetilde{\mathbb{H}}_v\}$ carrier spaces for dynamical structures of $\mathscr{S}_{2n}$-invariant-based integer rank tensorial sets: a democratic recoupling $\mathscr{S}_{2n}$-compatible overview of v-auxiliary labelling in superboson algebras of uniform multispin NMR ensembles" [J. Math. Chem. **31** (2002), no. 3, 281–312; MR1939916 (2004a:81109)].
Tilma, Todd (*with* Sudarshan, E. C. George) Generalized Euler angle parameterization for $U(N)$ with applications to $SU(N)$ coset volume measures. (English summary) **2005h:81153**
Toigo, Alessandro *see* **Carmeli, Claudio et al., 2005f:81082**
Tolar, Jiří *see* **Havlíček, Miloslav et al., 2005j:81070**
Tsue, Yasuhiko *see* **Yamamura, Masatoshi et al., 2005m:81127**
Turner, P. S. *see* **Rowe, David J. et al., 2005c:81080**
Tveritinov, I. D. Bogolyubov transformations that correspond to symplectic transformations. (Russian. Russian summary) **2005f:81086**
Van den Bossche, B. *see* **Debergh, N., 2005g:81130**
Van der Jeugt, Joris *see* **King, Ronald C. et al., 2005a:81088** *and* **Palev, T. D. et al., 2005b:81052**
Varadarajan, V. S. *see* **Digernes, Trond, 2005g:81131**
Varlamov, Vadim V. Group theoretical interpretation of the CPT-theorem. (English summary) **2005h:81154**
Vuković, T. *see* **Damnjanović, M. et al., 2005e:81081**
Wang, Fan[1] A conceptual review of the new approach to group representation theory. (English summary) (*see* **2005b:00031**)
Winternitz, Pavel Subalgebras of Lie algebras. Example of $sl(3, \mathbb{R})$. (English summary) **2005h:81155**
Wu, Cheng-Li Dynamical symmetry approach to collective motions in many-body systems. (English summary) (*see* **2005b:00031**)
Yamamura, Masatoshi (*with* da Providência, Constança; da Providência, João; Tsue, Yasuhiko; da Providência, João, Jr.) Coupling schemes for an n su(2) spin system. (English summary) **2005m:81127**
Yépez, E. (*with* Soto, J. R.; Castro, J. J.; Calles, A.) A simple algorithm for the group theoretical classification of quantum states. II. The case of molecular electronic states. (English summary) **2005k:81102**
Yu, A. C. H. *see* **Rasch, J., 2005k:81100**

Items listed otherwise than by author

Errata:
"Continuous spin representations from group contraction" Publisher's note: "Continuous spin representations from group contraction" [J. Math. Phys. **46** (2005), no. 5, 053515, 17 pp; MR2143024] by A. M. Khan and P. Ramond.

Items with secondary classifications in 81R05

Aldaya, V. (*with* Jaramillo, J. L.; Becerra Guerrero, Julio) Gauge principle revisited: towards a unification of space-time and internal gauge interactions. (English summary) **2005a:81137**
Aldrovandi, R. (*with* de Andrade, V. C.; Barbosa, A. L.; Pereira, J. G.) Mass generation from Lie algebra extensions. (English summary) **2005i:81190**
Alvarez-Moraga, Nibaldo (*with* Hussin, Véronique) sh(2/2) superalgebra eigenstates and generalized supercoherent and supersqueezed states. (English summary) **2005f:81102**
Anastopoulos, Charis Generalized coherent states for spinning relativistic particles. (English summary) **2005f:81103**
de Andrade, V. C. *see* **Aldrovandi, R. et al., 2005i:81190**
Andrianov, A. A. (*with* Cannata, Francesco) Nonlinear supersymmetry for spectral design in quantum mechanics. (English summary) **2005m:81113**
Arias, J. M. (*with* Gómez-Camacho, J.; Lemus, R.) An su(1, 1) dynamical algebra for the Pöschl-Teller potential. (English summary) **2005c:81239**
Arntzenius, Frank Time reversal operations, representations of the Lorentz group, and the direction of time. (English summary) **2005b:83003**
de Azcárraga, José A. (*with* Izquierdo, José Manuel; Picón, Moisés; Varela, Oscar) Extensions, expansions, Lie algebra cohomology and enlarged superspaces. (English summary) **2005d:81326**
Baran, S. A. (*with* Kerimov, G. A.) On solvable potentials related to SO(2, 2). II. Natanzon potentials. (English summary) **2005b:81224**
Barbosa, A. L. *see* **Aldrovandi, R. et al., 2005i:81190**
Başkal, Sibel (*with* Georgieva, Elena; Kim, Young Suh; Noz, Marilyn E.) Lorentz group in classical ray optics. (English summary) **2005c:83001**
Baylis, William E. (*with* Sobczyk, Garret) Relativity in Clifford's geometric algebras of space and spacetime. (English summary) **2005k:83004**
Becerra Guerrero, Julio *see* **Aldaya, V. et al., 2005a:81137**
Bogoslovskiĭ, G. Yu. (*with* Goenner, Hubert F. M.) Concerning the generalized Lorentz symmetry and the generalization of the Dirac equation. (English summary) **2005d:81184**
Bóna, Andrej The Dirac equation in geometric quantization. (English summary) **2005b:81081**
Boya, Luis Joaquín (*with* Sudarshan, E. C. George) Relation between rigid-body motion, isotropic cones, and spinors. (English summary)
Bracken, A. J. Entangled subspaces and quantum symmetries. (English summary) **2005g:81027**
Brugues, Jan (*with* Curtright, Thomas; Gomis, Joaquim; Mezincescu, Luca) Non-relativistic strings and branes as non-linear realizations of Galilei groups. (English summary)
Bullock, Stephen S. Note on the Khaneja Glaser decomposition. (English summary) **2005h:81088**
Burdík, Čestmír (*with* Havlíček, Miloslav) Boson realizations of semi-simple Lie algebras. (English summary) **2005b:17009**
Campoamor-Stursberg, Otto Rutwig Corrigendum: "The structure of the invariants of perfect Lie algebras" [J. Phys. A **36** (2003), no. 24, 6709–6723; MR2004306 (2004i:17005)]. **2005e:17006**
— Intrinsic formulae for the Casimir operators of semidirect products of the exceptional Lie algebra G_2 and a Heisenberg Lie algebra. (English summary) **2005f:17008**
Cannata, Francesco *see* **Andrianov, A. A., 2005m:81113**
Cantcheff, Marcelo Botta Doublet groups, extended Lie algebras, and well defined gauge theories for the two-form field. (English summary) **2005m:81201**
Carballo, Juan M. (*with* Fernández C., David J.; Negro, Javier; Nieto, Luis M.) Polynomial Heisenberg algebras. (English summary) **2005g:81112**
Cardone, Fabio (*with* Marrani, Alessio; Mignani, Roberto) Killing symmetries of generalized Minkowski spaces. II. Finite structure of space-time rotation groups in four dimensions. (English summary) **2005m:83004**
— (*with* Marrani, Alessio; Mignani, Roberto) Killing symmetries of generalized Minkowski spaces. III. Spacetime translations in four dimensions. (English summary) **2005m:83005**
Carmeli, Claudio (*with* Cassinelli, G.; De Vito, E.; Toigo, Alessandro; Vacchini, Bassano)

A complete characterization of phase space measurements. (English summary) **2005h:81053**

Cassinelli, G. *see* **Carmeli, Claudio et al., 2005h:81053**

Castro-Alvaredo, Olalla (*with* Fring, Andreas) Universal boundary reflection amplitudes. (English summary) **2005d:81234**

Celeghini, Enrico (*with* Kulish, Petr Petrovich) Deformation of orthosymplectic Lie superalgebra osp(1|4). (English summary) **2005a:17031**

Chalupka, S. *see* **Rubish, Vasyl′ V. et al., 2005h:81440**

Chen, Jin Quan (*with* Wang, Fan[1]; Gao, Mei-Juan) Physical method of group representation theory. I. A new approach to theory of finite-group representations. (English and Chinese summaries) **2005c:20027**

— *see also* **Beauty of mathematics in science, 2005b:00031**

Chen, Jun-Hua *see* **Fan, Hong Yi[1], 2005b:81069**

Choi, Kang-Sin (*with* Hwang, Kyuwan; Kim, Jihn E.) Dynkin diagram strategy for orbifolding with Wilson lines. (English summary) **2005a:81165**

Chryssomalakos, Chryssomalis (*with* Okon, E.) Generalized quantum relativistic kinematics: a stability point of view. (English summary) **2005k:81155**

Čížek, Jiří Karel *see* **Zamastil, J. et al., 2005c:81252**

de Coulon, V. *see* **Reuse, F. A. et al., 2005a:82067**

Curtright, Thomas *see* **Brugues, Jan et al.**

Daoud, M. Analytic representations based on su(3) coherent states and Robertson intelligent states. (English summary) **2005e:81106**

— Generalized intelligent states of the su(N) algebra. (English summary) **2005m:81151**

Dappiaggi, Claudio Elementary particles, holography and the BMS group. (English summary) **2005m:83038**

Dennis, M. R. Canonical representation of spherical functions: Sylvester's theorem, Maxwell's multipoles and Majorana's sphere. (English summary) **2005f:43011**

Dereli, Tekin (*with* Yılmaz, Nejat T.) Dualisation of the symmetric space sigma model with couplings. (English summary) **2005h:81203**

De Vito, E. *see* **Carmeli, Claudio et al., 2005h:81053**

Dobosh, V. M. *see* **Rubish, Vasyl′ V. et al., 2005h:81440**

Dobrev, V. K. (*with* Miteva, A. M.; Zhang, Rui Bin; Zlatev, B. S.) On the unitarity of $D = 9, 10, 11$ conformal supersymmetry. (English summary) **2005k:81307**

Dong, Shi-Hai Realization of the dynamical group for the generalized Laguerre functions. (English summary) **2005a:33013**

Dray, Tevian (*with* Manogue, Corinne A.) Using octonions to describe fundamental particles. (English summary) **2005b:81067**

Fairlie, D. B. *see* **Ne'eman, Yuval et al., 2005h:81434**

Fan, Hong Yi[1] (*with* Chen, Jun-Hua) Symplectic group representation of the two-mode squeezing operator in the coherent state basis. (English summary) **2005b:81069**

Feldvoss, Jörg Existence of triangular Lie bialgebra structures. II. (English summary) **2005m:17030**

(Feng, D. H.) *see* **Beauty of mathematics in science, 2005b:00031**

Fernández, F. M. On the Magnus, Wilcox and Fer operator equations. (English summary) **2005h:81190**

Fernández C., David J. *see* **Carballo, Juan M. et al., 2005g:81112**

Figueroa-O'Farrill, José (*with* Meessen, Patrick; Philip, Simon) Supersymmetry and homogeneity of M-theory backgrounds. (English summary) **2005k:81226**

Fring, Andreas *see* **Castro-Alvaredo, Olalla, 2005d:81234**

Furman, G. B. (*with* Goren, S. D.) Dipolar coupling spin dynamics: perturbation approach. (English summary)

Gao, Mei-Juan *see* **Chen, Jin Quan et al., 2005c:20027**

Garajeu, Daniela (*with* Gărăjeu, Mihail) Three-dimensional subalgebras of simple Lie algebras: a Mathematica™ package. (English summary) **2005c:17015**

Gărăjeu, Mihail *see* **Garajeu, Daniela, 2005c:17015**

Georgieva, Elena *see* **Başkal, Sibel et al., 2005c:83001**

Gerasimov, Anton A. (*with* Kharchev, S.; Lebedev, D. R.) On a class of integrable systems connected with GL($N, \mathbb{R}$). (English summary) **2005k:81114**

Gielerak, Roman (*with* Rałowski, Robert) Statistical mechanics of a class of anyonic systems. The rigorous approach. (English summary) **2005k:82005**

Godunov, Sergeĭ Konstantinovich (*with* Gordienko, V. M.) Clebsch-Gordan coefficients in the case of various choices of bases of unitary and orthogonal representations of the groups SU(2) and SO(3). (Russian. Russian summary) **2005i:22013**

Goenner, Hubert F. M. *see* **Bogoslovskiĭ, G. Yu., 2005d:81184**

Gómez-Camacho, J. *see* **Arias, J. M. et al., 2005c:81239**

Gómez-Ullate Oteiza, D. (*with* Kamran, Niky; Milson, Robert) Quasi-exact solvability and the direct approach to invariant subspaces. (English summary) **2005j:81200**

Gomis, Joaquim *see* **Brugues, Jan et al.**

Gordienko, V. M. *see* **Godunov, Sergeĭ Konstantinovich, 2005i:22013**

Goremykin, O. V. *see* **Tsyganov, Andreĭ Vladimirovich[1], 2005c:81088**

Goren, S. D. *see* **Furman, G. B.**

de Guise, Hubert (*with* Rowe, David J.; Sanders, Barry C.) Asymptotic SU(2) and SU(3) Wigner functions from the weight diagram. (English summary) **2005d:22018**

Gunaydin, Murat Realizations of exceptional U-duality groups as conformal and quasi-conformal groups and their minimal unitary representations. (English summary) **2005h:83256**

— (*with* Takemae, S.) Erratum to: "Unitary supermultiplets of OSp(8*|4) and the AdS$_7$/CFT_6 duality" [Nuclear Phys. B **578** (2000), no. 1-2, 405–448; MR1766151 (2001i:81262)].

Hanna, L. A.-M. On the classification of the Lie algebras $L^s_{r,t}$. (English summary) **2005g:17015**

Harrison, Jonathan Michael (*with* Robbins, J. M.) Quantum indistinguishability from general representations of SU($2n$). (English summary) **2005d:81163**

Havlíček, Miloslav *see* **Burdík, Čestmír, 2005b:17009**

Hussin, Véronique *see* **Alvarez-Moraga, Nibaldo, 2005f:81102**

Hwang, Kyuwan *see* **Choi, Kang-Sin et al., 2005a:81165**

Iachello, F. The method of symmetrized bosons. (English summary) (*see* **2005b:00031**)

— *see also* **Beauty of mathematics in science, 2005b:00031**

Iwai, Toshihiro Stratified reduction of many-body dynamical systems. (English summary) **2005c:70011**

Izquierdo, José Manuel *see* **de Azcárraga, José A. et al., 2005d:81326**

Jafarizadeh, M. A. (*with* Mirzaee, M.; Rezaee, M.) Connection between quantum tomography based on homogeneous space and projective representation and wavelet transform in Banach spaces. (English summary) **2005h:43012**

Jaramillo, J. L. *see* **Aldaya, V. et al., 2005a:81137**

Joyce, William P. Recoupling Lie algebra and universal ω-algebra. (English summary) **2005f:17012**

Kalhous, K. *see* **Zamastil, J. et al., 2005c:81252**

Kalhous, M. *see* **Zamastil, J. et al.**

Kamran, Niky *see* **Gómez-Ullate Oteiza, D. et al., 2005j:81200**

Kerimov, G. A. *see* **Baran, S. A., 2005b:81224**

Khan, Subuhi (*with* Yasmin, Ghazala) Generating relations of Laguerre 2D polynomials using a representation of Lie algebra $\mathcal{B}(0, 1)$. (English summary) **2005k:33005**

Kharchev, S. *see* **Gerasimov, Anton A. et al., 2005k:81114**

Kim, Jihn E. *see* **Choi, Kang-Sin et al., 2005a:81165**

Kim, Young Suh *see* **Başkal, Sibel et al., 2005c:83001**

Kirchbach, Mariana *see* **Napsuciale, Mauro, 2005g:81147**

Koç, Ramazan *see* **Körcük, Eser**

Körcük, Eser (*with* Koç, Ramazan) Symmetries of the Jahn-Teller systems and their solvability. (English summary)

Korsch, H. J. *see* **Mossmann, S. et al., 2005k:81379**

Kota, V. K. B. SU(N) Wigner-Racah algebra for the matrix of second moments of embedded Gaussian unitary ensemble of random matrices. (English summary) **2005m:82060**

Kulish, Petr Petrovich *see* **Celeghini, Enrico, 2005a:17031**

Lazur, V. Yu. *see* **Rubish, Vasyl′ V. et al., 2005h:81440**

Leach, P. G. L. The solution of some quantum nonlinear oscillators with the common symmetry group SL(2, **R**). (English summary) **2005k:81065**

Lebedev, D. R. *see* **Gerasimov, Anton A. et al., 2005k:81114**

Lemus, R. *see* **Arias, J. M. et al., 2005c:81239**

Lévy, Thierry Wilson loops in the light of spin networks. (English summary) **2005j:81112**

Li, Xiangzhu *see* **Paldus, Josef, (2005b:00031)**

Louko, Jorma (*with* Molgado, Alberto) Group averaging in the (p, q) oscillator representation of SL(2, $\mathbb{R}$). (English summary) **2005c:81111**

Ma, Zhong Qi Irreducible bases in icosahedral group space and their application. (English summary) (*see* **2005b:00031**)

Manogue, Corinne A. *see* **Dray, Tevian, 2005b:81067**

Mardoyan, L. G. Dyon-oscillator duality. Hidden symmetry of the Yang-Coulomb monopole. (English summary) **2005h:81194**

Marrani, Alessio *see* **Cardone, Fabio et al., 2005m:83004** *and* **2005m:83005**

Martínez-y-Romero, R. P. (*with* Núñez-Yépez, H. N.; Salas-Brito, A. L.) An algebraic SU(1, 1) solution for the relativistic hydrogen atom. (English summary) **2005k:81372**

Maschke, K. *see* **Reuse, F. A. et al., 2005a:82067**

Meessen, Patrick *see* **Figueroa-O'Farrill, José et al., 2005k:81226**

Mezincescu, Luca *see* **Brugues, Jan et al.**

Mignani, Roberto *see* **Cardone, Fabio et al., 2005m:83004** *and* **2005m:83005**

Milson, Robert *see* **Gómez-Ullate Oteiza, D. et al., 2005j:81200**

Mirzaee, M. *see* **Jafarizadeh, M. A. et al., 2005h:43012**

Miteva, A. M. *see* **Dobrev, V. K. et al., 2005k:81307**

Mkrtchyan, H. (*with* Mkrtchyan, Ruben) 10D $N = 1$ massless BPS supermultiplets. (English summary) **2005a:81230**

Mkrtchyan, Ruben *see* **Mkrtchyan, H., 2005a:81230**

Molgado, Alberto *see* **Louko, Jorma, 2005c:81111**

Morgan, J. A. Spin and statistics in classical mechanics. (English summary) **2005g:70030**

Moskalyuk, S. S. Weil representations of the Cayley-Klein Hermitian symplectic category. (English, Russian and Ukrainian summaries) **2005i:22014**

Mossmann, S. (*with* Schulze, A.; Witthaut, Dirk; Korsch, H. J.) Two-dimensional Bloch oscillations: a Lie-algebraic approach. (English summary) **2005k:81379**

Mund, Jens (*with* Schroer, Bert; Yngvason, Jakob) String-localized quantum fields from Wigner representations. (English summary) **2005h:81197**

Napsuciale, Mauro (*with* Kirchbach, Mariana) Avoiding superluminal propagation of higher spin waves via projectors onto W^2 invariant subspaces. (English summary) **2005g:81147**

Ne'eman, Yuval (*with* Sternberg, Shlomo; Fairlie, D. B.) Superconnections for electroweak su(2/1) and extensions, and the mass of the Higgs. (English summary) **2005h:81434**

Negro, Javier *see* **Carballo, Juan M. et al., 2005g:81112**

Nieto, Luis M. *see* **Carballo, Juan M. et al., 2005g:81112**

Noz, Marilyn E. *see* **Başkal, Sibel et al., 2005c:83001**

Núñez-Yépez, H. N. *see* **Martínez-y-Romero, R. P. et al., 2005k:81372**

Okon, E. *see* **Chryssomalakos, Chryssomalis, 2005k:81155**

Paldus, Josef (*with* Li, Xiangzhu) Continuous groups and molecular electronic structure. (English summary) (*see* **2005b:00031**)

Paul, Samir K. (*with* Sen, Siddhartha[1]) The appearance of the resolved singular hypersurface in the classical phase space of the Lie group SU(n). (English summary) **2005d:22011**

Pengpan, Teparksorn Equal rank embedding and its related construction to superconformal field theories. (English summary) **2005f:81216**

Pereira, J. G. *see* **Aldrovandi, R. et al., 2005i:81190**

Philip, Simon *see* **Figueroa-O'Farrill, José et al., 2005k:81226**

Picón, Moisés *see* **de Azcárraga, José A. et al., 2005d:81326**

(Ping, Jia Lun) *see* **Beauty of mathematics in science, 2005b:00031**

Pittenger, Arthur O. (*with* Rubin, Morton H.) Mutually unbiased bases, generalized spin matrices and separability. (English summary) **2005m:15077**

Rałowski, Robert *see* **Gielerak, Roman, 2005k:82005**

Reuse, F. A. (*with* de Coulon, V.; Maschke, K.) Coherent and dissipative spin dynamics in N-electron systems. (English summary) **2005a:82067**

Rezaee, M. *see* **Jafarizadeh, M. A. et al., 2005h:43012**

Robbins, J. M. *see* **Harrison, Jonathan Michael, 2005d:81163**

Rosensteel, G. Mean field theory of the general collective motion algebra gcm(3). (English summary) **2005h:81439**

Rowe, David J. *see* **de Guise, Hubert et al., 2005d:22018**
Rubin, Morton H. *see* **Pittenger, Arthur O., 2005m:15077**
Rubish, Vasyl' V. (*with* Lazur, V. Yu.; Dobosh, V. M.; Chalupka, S.; Salák, M.) Non-geometrical symmetry and separation of variables in the two-centre problem with a confinement-type potential. (English summary) **2005h:81440**
Rui, Hebing (*with* Xi, Changchang) The representation theory of cyclotomic Temperley-Lieb algebras. (English summary) **2005b:16027**
Salák, M. *see* **Rubish, Vasyl' V. et al., 2005h:81440**
Salas-Brito, A. L. *see* **Martínez-y-Romero, R. P. et al., 2005k:81372**
Saleur, Hubert (*with* Wehefritz-Kaufmann, Birgit) Integrable quantum field theories with supergroup symmetries: the OSp(1/2) case. (English summary) **2005a:81091**
Sanders, Barry C. *see* **de Guise, Hubert et al., 2005d:22018**
Scaria, Tomy Translational groups as generators of gauge transformations. (English summary) **2005b:81102**
Schroer, Bert *see* **Mund, Jens et al., 2005h:81197**
Schulze, A. *see* **Mossmann, S. et al., 2005k:81379**
Selesnick, S. A. ★ Quanta, logic and spacetime. **2005g:81016**
Sen, Siddhartha[1] *see* **Paul, Samir K., 2005d:22011**
Šimánek, M. *see* **Zamastil, J. et al., 2005c:81252**
Skála, L. *see* **Zamastil, J. et al., 2005c:81252**
Smirnov, AlekseĭVladimirovich Commutative algebra of scalar quaternions. (Russian. Russian summary)
Šnobl, Libor (*with* Winternitz, Pavel) A class of solvable Lie algebras and their Casimir invariants. (English summary) **2005m:17017**
Sobczyk, Garret *see* **Baylis, William E., 2005k:83004**
Sternberg, Shlomo *see* **Ne'eman, Yuval et al., 2005h:81434**
Sudarshan, E. C. George *see* **Boya, Luis Joaquín**
Surya, Sumati Cyclic statistics in three dimensions. (English summary) **2005c:81107**
Takemae, S. *see* **Gunaydin, Murat**
Toigo, Alessandro *see* **Carmeli, Claudio et al., 2005h:81053**
Townsend, Paul Kingsley Surprises with angular momentum. (English summary) **2005a:83110**
Tsyganov, Andreĭ Vladimirovich[1] (*with* Goremykin, O. V.) Integrable systems on so(4) related to XXX spin chains with boundaries. (English summary) **2005c:81088**
Turbiner, A. V. Perturbations of integrable systems and Dyson-Mehta integrals. (English summary) **2005i:81044**
Vacchini, Bassano *see* **Carmeli, Claudio et al., 2005h:81053**
Van der Jeugt, Joris $3nj$-coefficients and orthogonal polynomials of hypergeometric type. (English summary) **2005e:33009**
Van Isacker, P. The interacting Boson model. (English summary) (*see* **2005b:00031**)
Varela, Oscar *see* **de Azcárraga, José A. et al., 2005d:81326**
Vasil'ev, M. A. (*with* Zaikin, V. N.) Sp($2M$)-invariant Green functions. (English summary) **2005d:81361**
Vourdas, A. *see* **Zhang, Sheng[3], 2005f:81110** *and* **Errata: "Analytic representation of finite quantum systems"**
Wang, Fan[1] *see* **Beauty of mathematics in science, 2005b:00031** *and* **Chen, Jin Quan et al., 2005c:20027**
Wawrzycki, Jarosław A generalization of the Bargmann's theory of ray representations. (English summary) **2005g:22025**
Wehefritz-Kaufmann, Birgit *see* **Saleur, Hubert, 2005a:81091**
Winternitz, Pavel *see* **Šnobl, Libor, 2005m:17017**
Witthaut, Dirk *see* **Mossmann, S. et al., 2005k:81379**
Xi, Changchang *see* **Rui, Hebing, 2005b:16027**
Yasmin, Ghazala *see* **Khan, Subuhi, 2005k:33005**
Yılmaz, Nejat T. *see* **Dereli, Tekin, 2005h:81203**
Yngvason, Jakob *see* **Mund, Jens et al., 2005h:81197**
Zaikin, V. N. *see* **Vasil'ev, M. A., 2005d:81361**
Zamastil, J. (*with* Čížek, Jiří Karel; Kalhous, K.; Skála, L.; Šimánek, M.) The use of so(2, 1) algebra for the evaluation of atomic integrals: the study of two-electron atoms. (English summary) **2005c:81252**
— (*with* Čížek, Jiří Karel; Kalhous, M.; Skála, L.; Šimánek, M.) Erratum: "The use of so(2, 1) algebra for the evaluation of atomic integrals: the study of two-electron atoms" [J. Math. Phys. **45** (2004), no. 7, 2674–2693; MR2067581 (2005c:81252)]. (English summary)
Zhang, Rui Bin *see* **Dobrev, V. K. et al., 2005k:81307**
Zhang, Sheng[3] (*with* Vourdas, A.) Analytic representation of finite quantum systems. (English summary) **2005f:81110**
— *see also* **Errata: "Analytic representation of finite quantum systems"**
Zlatev, B. S. *see* **Dobrev, V. K. et al., 2005k:81307**

Items listed otherwise than by author

Beauty of mathematics in science ★ The beauty of mathematics in science. **2005b:00031**
Errata:
"Analytic representation of finite quantum systems" Corrigendum: "Analytic representation of finite quantum systems" [J. Phys. A **37** (2004), no. 34, 8349–8363; MR2092802 (2005f:81110)] by S. Zhang and A. Vourdas.

81R10 Infinite-dimensional groups and algebras motivated by physics, including Virasoro, Kac-Moody, W-algebras and other current algebras and their representations [see also 17B65, 17B67, 22E65, 22E67, 22E70]

Andrianov, A. A. (*with* Sokolov, A. V.) Nonlinear supersymmetry in quantum mechanics. (English summary)
Apikyan, S. A. (*with* Barsamyan, M. A.; Efthimiou, Costas J.) Geometric properties of W-algebras, and the Toda model. (Russian. Russian summary) **2005f:81087**
Arnaudon, Daniel *see* **Sakamoto, Reiho et al., 2005k:81109**
Balaska, S. (*with* Demmouche, K.) The correlation functions of the (D_4, A_6) conformal model. (English summary) **2005g:81136**
— (*with* Demmouche, K.) Correlation functions of the tri-critical 3-state Potts model. (English summary) **2005e:81086**
Bandelloni, G. (*with* Lazzarini, S.) Induced quantum gravity on a Riemann surface. (English summary) **2005a:81089**
— (*with* Lazzarini, S.) Noncommutative coordinates on Riemann surfaces. (English summary) **2005h:81156**
Barsamyan, M. A. *see* **Apikyan, S. A. et al., 2005f:81087**
Bégin, L. (*with* Cummins, C. J.; Mathieu, Pierre[1]; Walton, Mark A.) Fusion rules and the Patera-Sharp generating-function method. (English summary) **2005f:81088**
Bertoldi, Gaetano (*with* Giribet, Gastón E.) Zamolodchikov operator-valued relations for $SL(2, \mathbf{R})_k$ WZNW model. (English summary) **2005g:81137**
Conrady, Florian (*with* Schweigert, Christoph) Topologizations of chiral representations. (English summary) **2005d:81171**
Coquereaux, Robert (*with* Huerta, Marina) Torus structure on graphs and twisted partition functions for minimal and affine models. (English summary) **2005g:81138**
— (*with* Huerta, Marina) Coxeter and Dynkin diagrams and their associated twisted partition functions for the Virasoro minimal models. (English summary) **2005k:81103**
Cummins, C. J. *see* **Bégin, L. et al., 2005f:81088**
Demmouche, K. *see* **Balaska, S., 2005e:81086** *and* **2005g:81136**
Dotsenko, Vladimir S. (*with* Jacobsen, Jesper Lykke; Santachiara, Raoul) Parafermionic theory and the symmetry Z_N for N even. (English summary) **2005e:81087**
— (*with* Santachiara, Raoul) The third parafermionic chiral algebra with the symmetry Z_3. (English summary) **2005k:81104**
Douari, J. (*with* El Kinani, E. H.) On the C_λ-extended w_∞-symmetry. (English summary) **2005m:81128**
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El Kinani, E. H. *see* **Douari, J., 2005m:81128**
Feĭgin, B. (*with* Jimbo, Michio; Loktev, S.; Miwa, Tetsuji) Two character formulas for $\widehat{sl}_2$ spaces of coinvariants. (English summary) **2005k:81105**
Fortin, J.-F. (*with* Jacob, Patrick; Mathieu, Pierre[1]) $\mathcal{M}(2, 4\kappa)$ fermionic characters and restricted jagged partitions. (English summary) **2005k:81106**
Frappat, Luc *see* **Sakamoto, Reiho et al., 2005k:81109**
Fuchs, Jürgen (*with* Runkel, Ingo; Schweigert, Christoph) Lie algebras, Fuchsian differential equations and CFT correlation functions. (English summary) **2005m:81129**
— (*with* Hwang, Stephen; Semikhatov, A. M.; Tipunin, I. Yu.) Nonsemisimple fusion algebras and the Verlinde formula. (English summary) **2005h:81157**
Gates, S. James, Jr. (*with* Linch, William D., III; Phillips, Joseph; Rodgers, V. G. J.) Short distance expansion from the dual representation of infinite dimensional Lie algebras. (English summary) **2005d:81172**
Giribet, Gastón E. *see* **Bertoldi, Gaetano, 2005g:81137**
Grünberg, Daniel B. $N = 4$ characters in Gepner models, orbits and elliptic genera. (English summary) **2005e:81088**
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Jimbo, Michio *see* **Feĭgin, B. et al., 2005k:81105**
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Larsson, T. A. Multi-dimensional Virasoro algebra and quantum gravity. (English summary) **2005d:81173**
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Liu, Xiao Hui Application of the B-function in coherent state representation of the Lie superalgebra. (Chinese. English and Chinese summaries)
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Miyamoto, Masahiko (Pseudo-)trace functions and modular invariance of vertex operator algebra. (English summary)
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— (*with* Shiraishi, Jun'ichi; Arnaudon, Daniel; Frappat, Luc; Ragoucy, É.) Correspondence between conformal field theory and Calogero-Sutherland model. (English summary) **2005k:81109**
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Yamada, Daisuke Box ball system associated with antisymmetric tensor crystals. (English summary) **2005k:81110**
Yang, Zhan-Ying (*with* Shi, Kang-Jie; Wang, Pei[1]; Zhao, Liu) Parafermion fields constructed by current algebra. (English summary)
Zakkari, E. H. *see* **Mansour, M., 2005m:81130**
Zhang, Yao-Zhong Coherent state construction of representations of osp(2|2) and primary fields of osp(2|2) conformal field theory. (English summary) **2005c:81081**
Zhao, Liu *see* **Yang, Zhan-Ying et al.**

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Adamović, Dražen Regularity of certain vertex operator superalgebras. (English summary) **2005c:17042**
— A construction of admissible $A_1^{(1)}$-modules of level $-\frac{4}{3}$. (English summary) **2005m:17032**
Alfinito, Eleonora (*with* Vitiello, Giuseppe) The Bessel equation and dissipation. (English summary) **2005a:34034**
Asano, Masako (*with* Natsuume, Makoto) The no-ghost theorem in curved backgrounds with a timelike u(1): NSR string. (English summary) **2005b:81125**
Bakas, Ioannis (*with* Sourdis, Christos) On the tensionless limit of gauged WZW models. (English summary) **2005c:81185**
Bantay, P. Permutation orbifolds and their applications. (English summary) **2005b:81169**
Barron, Katrina Superconformal change of variables for $N = 1$ Neveu-Schwarz vertex operator superalgebras. (English summary) **2005c:17043**
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Bernard, Denis *see* **Bauer, Michel, 2005e:81205**
Bertoldi, Gaetano (*with* Bolognesi, Stefano; Giribet, Gastón E.; Matone, Marco; Nakayama, Yu) Zamolodchikov relations and Liouville hierarchy in $\mathrm{SL}(2,\mathbf{R})_k$ WZNW model. (English summary) **2005k:81278**
Bolognesi, Stefano *see* **Bertoldi, Gaetano et al., 2005k:81278**
Bouchard, Vincent (*with* Skarke, Harald) Affine Kac-Moody algebras, CHL strings and the classification of tops. (English summary) **2005b:17050**
Boyallian, Carina (*with* Liberati, José I.) Representations of classical Lie subalgebras of quantum pseudodifferential operators. (English summary) **2005j:17025**
Carey, Alan L. (*with* Grundling, Hendrik) On the problem of the amenability of the gauge group. (English summary) **2005i:43001**
Carpi, Sebastiano On the representation theory of Virasoro nets. (English summary) **2005e:81128**
Chen, Yujun Quantum Liouville theory and BTZ black hole entropy. (English summary) **2005h:81242**
Cox, Ben L. (*with* Futorny, Vyacheslav) Intermediate Wakimoto modules for affine $\mathfrak{sl}(n+1,\mathbb{C})$. (English summary) **2005f:17023**
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Fairlie, D. B. (*with* Zachos, Cosmas K.) Vertex ring-indexed Lie algebras. (English summary)
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— (*with* Semikhatov, A. M.) $\mathscr{W}_n^{(2)}$ algebras. (English summary) **2005h:17047**
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Fioravanti, Davide Geometrical loci and CFTs via the Virasoro symmetry of the mKdV-SG hierarchy: an excursus. (English summary) **2005h:81161**
Fischbacher, Thomas *see* **Nicolai, Hermann, 2005d:17033**
Flohr, Michael A. I. Bits and pieces in logarithmic conformal field theory. (English summary) **2005g:81274**
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Fredenhagen, Klaus *see* **D'Antoni, Claudio et al., 2005e:81129**
Frenkel, Igor (*with* Malkin, Anton; Vybornov, M. Yu.) Quiver varieties, affine Lie algebras, algebras of BPS states, and semicanonical basis. (English summary) **2005e:17043**
Fröhlich, Jürg (*with* Fuchs, Jürgen; Runkel, Ingo; Schweigert, Christoph) Kramers-Wannier duality from conformal defects. (English summary) **2005h:81325**
Fuchs, Jürgen (*with* Schweigert, Christoph) Category theory for conformal boundary conditions. (English summary) **2005b:17056**
— (*with* Runkel, Ingo; Schweigert, Christoph) TFT construction of RCFT correlators. II. Unoriented world sheets. (English summary) **2005a:81197**
— (*with* Runkel, Ingo; Schweigert, Christoph) TFT construction of RCFT correlators. III. Simple currents. (English summary) **2005e:81209**
— *see also* **Fröhlich, Jürg et al., 2005h:81325**
Futorny, Vyacheslav *see* **Cox, Ben L., 2005f:17023**
Gaberdiel, Matthias R. An algebraic approach to logarithmic conformal field theory. (English summary) **2005h:81326**
Gargiulo, F. *see* **Fré, P. et al., 2005g:83120**
Geyer, Bodo (*with* Gitman, D. M.; Lavrov, P. M.; Moshin, P. Yu.) On problems of the Lagrangian quantization of W_3-gravity. (English summary) **2005a:81237**
Giacomini, Alex Classical Liouville theory and the microscopic interpretation of black hole entropy. (English summary) **2005c:83034**
Gili, V. *see* **Fré, P. et al., 2005g:83120**
Giribet, Gastón E. (*with* López-Fogliani, Daniel E.) Remarks on free field realization of $\mathrm{SL}(2,\mathbb{R})_k/\mathrm{U}(1) \times \mathrm{U}(1)$ WZNW model. (English summary) **2005h:81327**
— *see also* **Bertoldi, Gaetano et al., 2005k:81278**
Gitman, D. M. *see* **Geyer, Bodo et al., 2005a:81237**
Gornik, B. (*with* Mankoc-Borstnik, N. S.) Linear equations of motion for massless particles of any spin in any even dimensional spaces. (English summary) **2005d:81185**
Grinza, Paolo (*with* Ponsot, Bénédicte) Form factors in the massless coset models $\mathrm{su}(2)_{k+1} \otimes \mathrm{su}(2)_k/\mathrm{su}(2)_{2k+1}$. I. (English summary) **2005m:81272**
Grundling, Hendrik *see* **Carey, Alan L., 2005i:43001**
Guha, Partha Moyal deformation of KdV and Virasoro action. (English summary) **2005i:17039**
Gurevich, D. I. (*with* Saponov, P. A.) On non-one-dimensional representations of the reflection equation algebra. (Russian. Russian summary) **2005f:17003**
Haddou, Malika Ait Ben (*with* Belhaj, Adil; Saidi, El Hassan) Classification of $\mathcal{N} = 2$ supersymmetric CFT_4s: indefinite series. (English summary) **2005h:81330**
Halpern, M. B. (*with* Helfgott, C.) Twisted open strings from closed strings: the WZW orientation orbifolds. (English summary) **2005g:81277**
Helfgott, C. *see* **Halpern, M. B., 2005g:81277**
Houart, Laurent *see* **Englert, François et al., 2005b:81139**
Huang, Yi-Zhi (*with* Kong, Liang) Open-string vertex algebras, tensor categories and operads. (English summary) **2005h:17049**
Iohara, Kenji (*with* Koga, Yoshiyuki) Representation theory of $N = 2$ super Virasoro algebra: twisted sector. (English summary) **2005i:17032**
Israël, Dan (*with* Pakman, Ari; Troost, Jan) Extended $\mathrm{SL}(2,\mathbb{R})/\mathrm{U}(1)$ characters, or modular properties of a simple non-rational conformal field theory. (English summary) **2005d:81313**
Jones, Vaughan F. R. (*with* Xu, Feng[5]) Intersections of finite families of finite index subfactors. (English summary) **2005g:46118**
Kac, Victor G. Classification of supersymmetries. (English summary) **2005b:17045**
— (*with* Wakimoto, Minoru) Quantum reduction and representation theory of superconformal algebras. (English summary) **2005h:17050**
— (*with* Wakimoto, Minoru) Corrigendum to: "Quantum reduction and representation theory of superconformal algebras" [Adv. Math. **185** (2004), no. 2, 400–458; MR2060475 (2005h:17050)]. **2005k:17036**
Kishimoto, Isao (*with* Matsuo, Yutaka) Cardy states as idempotents of fusion ring in string field theory. (English summary) **2005b:81148**
Klimčík, Ctirad Quasitriangular WZW model. (English summary) **2005m:81161**
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Lavrov, P. M. *see* **Geyer, Bodo et al., 2005a:81237**
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— (*with* Mathieu, Pierre[1]; Rasmussen, Jørgen; Saleur, Hubert) Logarithmic lift of the $\widehat{\mathrm{su}}(2)_{-1/2}$ model. (English summary) **2005h:81333**
Liberati, José I. *see* **Boyallian, Carina, 2005j:17025**
Liu, Yuxiao (*with* Zhang, Li Jie[1]; Ren, Jirong) Ghost field realizations of the spinor $W_{2,s}$ strings based on the linear $W_{1,2,s}$ algebras. (English summary) **2005m:81319**
— *see also* **Duan, Yi Shi et al., 2005g:81272**
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Lou, Sen-Yue (*with* Rogers, Colin; Schief, Wolfgang Karl) Virasoro structure and localized excitations of the LKR system. (English summary) **2005b:37141**
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McKeon, D. G. C. (*with* Schubert, Christian) Supersymmetry on AdS_3 and AdS_4. (English summary) **2005f:83122**
Meusburger, Catherine (*with* Rehren, Karl-Henning) Algebraic quantization of the closed bosonic string. (English summary) **2005a:81180**
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Moretti, Valter (*with* Pinamonti, Nicola) The interplay of conformal invariance, quantum field theory near the horizon of a 2D-black hole and holography. (English summary) **2005f:81213**
— (*with* Pinamonti, Nicola) Virasoro algebra with central charge $c = 1$ on the horizon of a two-dimensional-Rindler space-time. (English summary) **2005k:81192**
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Schlichenmaier, Martin Higher genus affine algebras of Krichever-Novikov type. (English and Russian summaries) **2005f:17025**
— (*with* Sheĭnman, O. K.) The Knizhnik-Zamolodchikov equations for positive genus, and Krichever-Novikov algebras. (Russian. Russian summary) **2005k:32016**
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Zhang, Li Jie[1] *see* **Duan, Yi Shi et al.**, **2005g:81272** *and* **Liu, Yuxiao et al.**, **2005m:81319**

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Amico, Luigi (*with* Hikami, Kazuhiro) Integrable spin-boson interaction in the Tavis-Cummings model from a generic boundary twist. (English summary) **2005k:81111**
Aratyn, Henrik (*with* Gomes, J. F.; Zimerman, A. H.) Supersymmetry and the KdV equations for integrable hierarchies with a half-integer gradation. (English summary) **2005c:81082**
Avan, Jean (*with* Doikou, Anastasia) Commuting quantum traces: the case of reflection algebras. (English summary) **2005h:81160**
Babelon, O. Equations in dual variables for Whittaker functions. (English summary) **2005f:81089**
— On the quantum inverse problem for the closed Toda chain. (English summary) **2005d:81175**
Baseilhac, Pascal An integrable structure related with tridiagonal algebras. (English summary) **2005m:81133**
— Deformed Dolan-Grady relations in quantum integrable models. (English summary) **2005m:81134**
Basu-Mallick, B. (*with* Bhattacharyya, Tanaya) Exact solvability and quantum integrability of a derivative nonlinear Schrödinger model. (English summary) **2005e:81090**
— (*with* Bhattacharyya, Tanaya; Sen, Diptiman) Quantum bound states for a derivative nonlinear Schrödinger model and number theory. (English summary) **2005g:81139**
— (*with* Bhattacharyya, Tanaya; Mandal, Bhabani Prasad) Phase shift analysis of PT-symmetric non-Hermitian extension of A_{N-1} Calogero model without confining interaction. (English summary) **2005m:81135**
Belavin, A. A. (*with* Usmanov, R. A.) The Q-operator and the Drinfel'd equation. (Russian. Russian summary) **2005b:81053**
Bérubé, Josée (*with* Winternitz, Pavel) Integrability and superintegrability without separability. (English summary) **2005i:81056**
Bhattacharyya, Tanaya Quantum integrability of bosonic massive Thirring model in continuum. (English summary) **2005j:81071**
— *see also* **Basu-Mallick, B. et al.**, **2005e:81090**; **2005g:81139** *and* **2005m:81135**
Blas Achic, H. S. Higher grading conformal affine Toda theory and (generalized) sine-Gordon/massive Thirring duality. (English summary) **2005e:81091**
Bogolyubov, N. M. *see* **Bullough, Robin K. et al.**, **2005d:81176**
Bowcock, P. (*with* Corrigan, Edward; Zambon, C.) Classically integrable field theories with defects. (English summary) **2005j:81072**
Bracken, Paul An integrable model with soliton solutions which have applications to two-dimensional gravity. (English summary) **2005k:81112**
Bullough, Robin K. (*with* Bogolyubov, N. M.; Kapitonov, V. S.; Malyshev, K. L.; Timonen, Jussi; Rybin, Andrei V.; Varzugin, G. G.; Lindberg, Markus) Quantum integrable and nonintegrable models based on the nonlinear Schrödinger equation for a realizable Bose-Einstein condensation in the dimension $d+1$ ($d=1,2,3$). (Russian. Russian summary) **2005d:81176**
Cabrera-Carnero, I. (*with* Gomes, J. F.; Sotkov, G. M.; Zimerman, A. H.) Vertex operators and soliton solutions of affine Toda model with U(2) symmetry. (English summary) **2005e:81092**
Castro-Alvaredo, Olalla (*with* Fring, Andreas) Applications of quantum integrable systems. (English summary) **2005f:81090**
Caudrelier, V. (*with* Ragoucy, E.) Lax pair and super-Yangian symmetry of the nonlinear super-Schrödinger equation. (English summary) **2005c:81083**
— (*with* Ragoucy, É.) Quantum resolution of the nonlinear super-Schrödinger equation. (English summary) **2005j:81073**
— (*with* Mintchev, M.; Ragoucy, É.) The quantum nonlinear Schrödinger model with point-like defect. (English summary) **2005j:81074**
Controzzi, D. (*with* Mussardo, G.) Mass generation in perturbed massless integrable models. (English summary)
Corrigan, Edward Integrable models with boundaries and defects. (*see* 2005j:00020)
— *see also* **Bowcock, P. et al.**, **2005j:81072**
Delius, G. W. (*with* MacKay, Niall J.) Quantum group symmetry in sine-Gordon and affine Toda field theories on the half-line. (English summary) **2005e:81093**
Derkachov, S. É. (*with* Karakhanyan, D. R.; Kirschner, R.) Universal R operator with Jordanian deformation of conformal symmetry. (English summary) **2005e:81094**
Desrosiers, Patrick (*with* Lapointe, Luc; Mathieu, Pierre[1]) Generalized Hermite polynomials in superspace as eigenfunctions of the supersymmetric rational CMS model. (English summary) **2005f:81091**
— (*with* Lapointe, Luc; Mathieu, Pierre[1]) Supersymmetric Calogero-Moser-Sutherland models: superintegrability structure and eigenfunctions. (English summary) **2005k:81113**
van Diejen, Jan F. On the Plancherel formula for the (discrete) Laplacian in a Weyl chamber with repulsive boundary conditions at the walls. (English summary) **2005a:81090**
Dimakis, Aristophanes (*with* Müller-Hoissen, Folkert) Extension of noncommutative soliton hierarchies. (English summary) **2005e:81095**
Doikou, Anastasia *see* **Avan, Jean**, **2005h:81160**
Dorey, Patrick (*with* Fioravanti, Davide; Rim, Chaiho; Tateo, Roberto) Integrable quantum field theory with boundaries: the exact g-function. (English summary) **2005d:81177**
Eilbeck, J. C. (*with* Ènol'skiĭ, V. Z.; Holden, Helge) The hyperelliptic ζ-function and the integrable massive Thirring model. (English summary) **2005g:81140**
Ènol'skiĭ, V. Z. *see* **Eilbeck, J. C. et al.**, **2005g:81140**
Ermolayeva, O. *see* **Harnad, John**, **2005k:81115**
Fateev, V. A. (*with* Lashkevich, M.) Form factors of exponential fields for two-parametric family of integrable models. (English summary) **2005f:81092**
Field, Chris M. (*with* Nijhoff, Frank W.) Quantum discrete Dubrovin equations. (English summary) **2005i:81057**
Fioravanti, Davide Geometrical loci and CFTs via the Virasoro symmetry of the mKdV-SG hierarchy: an excursus. (English summary) **2005h:81161**
— *see also* **Dorey, Patrick et al.**, **2005d:81177**
Fring, Andreas (*with* Korff, Christian) Exactly solvable potentials of Calogero type for q-deformed Coxeter groups. (English summary) **2005m:81136**
— *see also* **Castro-Alvaredo, Olalla**, **2005f:81090**
Galazhinskiĭ, A. V. (*with* Myagkiĭ, A. N.) $N=4$ superconformal algebra in curved space, and pseudohyper-Kählerian geometry. (Russian. Russian summary) **2005c:81084**
Gerasimov, Anton A. (*with* Kharchev, S.; Lebedev, D. R.) On a class of integrable systems connected with $GL(N,\mathbb{R})$. (English summary) **2005k:81114**
Gershun, V. D. Nonlocal brackets and integrable string models. (English summary) **2005e:81096**
Giachetta, G. (*with* Mangiarotti, L.; Sardanashvili, G. A.) Nonadiabatic holonomy operators in classical and quantum completely integrable systems. (English summary) **2005b:81054**

Gomes, J. F. (*with* Sotkov, G. M.; Zimerman, A. H.) T-duality in affine NA Toda models. (English summary)
— *see also* **Aratyn, Henrik et al., 2005c:81082** *and* **Cabrera-Carnero, I. et al., 2005e:81092**
Goremykin, O. V. *see* **Tsyganov, Andreĭ Vladimirovich[1], 2005c:81088**
Gravel, Simon Cubic integrals of motion and quantum superintegrability. (English summary) **2005j:81075**
Grisaru, Marcus T. (*with* Mazzanti, Liuba; Penati, Silvia; Tamassia, Laura) Some properties of the integrable noncommutative sine-Gordon system. (English summary) **2005b:81055**
Hamanaka, Masashi Commuting flows and conservation laws for noncommutative Lax hierarchies. (English summary) **2005m:81137**
Harnad, John (*with* Ermolayeva, O.) Superintegrability, Lax matrices and separation of variables. (English summary) **2005k:81115**
Hikami, Kazuhiro *see* **Amico, Luigi, 2005k:81111**
Hiranwal, Roshan (*with* Mishra, S. C.; Mishra, Veena) Classical and quantum integrability for a class of potentials in two dimensions. (English summary) **2005c:81085**
Holden, Helge *see* **Eilbeck, J. C. et al., 2005g:81140**
Hou, Bo-Yu (*with* Peng, Dan-Tao; Shi, Kang-Jie; Yue, Rui-Hong) Solitons on noncommutative torus as elliptic Calogero-Gaudin models, branes and Laughlin wave functions. (English summary) **2005b:81056**
Iorgov, Nikolai On the wave functions of Ruijsenaars model related to q-analogue of symmetric space $GL(n)/SO(n)$. (English summary) **2005d:81178**
Jimbo, Michio (*with* Miwa, Tetsuji; Mukhin, E. E.; Takeyama, Yoshihiro) Form factors and action of $U_{\sqrt{-1}}(\widehat{sl}_2)$ on ∞-cycles. (English summary) **2005c:81086**
Kapitonov, V. S. *see* **Bullough, Robin K. et al., 2005d:81176**
Karakhanyan, D. R. *see* **Derkachov, S. É. et al., 2005e:81094**
Kharchev, S. *see* **Gerasimov, Anton A. et al., 2005k:81114**
Khastgir, S. Pratik Affine Toda field theory from tree unitarity. (English summary) **2005h:81162**
Kirschner, R. *see* **Derkachov, S. É. et al., 2005e:81094**
Korff, Christian *see* **Fring, Andreas, 2005m:81136**
Korovnichenko, A. (*with* Spiridonov, V. P.; Zhedanov, A. S.) Poisson algebras on elliptic curves. (English summary) **2005b:81057**
Kulish, Petr Petrovich (*with* Tseĭtlin, A. M.) Integrable structure of superconformal field theory and quantum super-KdV theory. (English summary) **2005f:81093**
— (*with* Tseĭtlin, A. M.) Superconformal field theory and SUSY $N = 1$ KdV hierarchy. I. Vertex operators and Yang-Baxter equation. (English summary) **2005k:81116**
Kuru, Şengül (*with* Verçin, Abdullah) Three-dimensional integrable and superintegrable isospectral potentials. (English summary)
Lapointe, Luc *see* **Desrosiers, Patrick et al., 2005f:81091** *and* **2005k:81113**
Lashkevich, M. *see* **Fateev, V. A., 2005f:81092**
Lebedev, D. R. *see* **Gerasimov, Anton A. et al., 2005k:81114**
Lechtenfeld, Olaf Noncommutative sine-Gordon model. (English summary)
— (*with* Mazzanti, Liuba; Penati, Silvia; Popov, Alexander D.; Tamassia, Laura) Integrable noncommutative sine-Gordon model. (English summary) **2005i:81058**
Lindberg, Markus *see* **Bullough, Robin K. et al., 2005d:81176**
Lopez Vieyra, Juan C. (*with* Turbiner, A. V.) Solvability of F_4 quantum integrable systems. (English summary) **2005b:81058**
Loris, I. (*with* Sasaki, Ryu) Quantum and classical eigenfunctions in Calogero and Sutherland systems. (English summary) **2005b:81059**
MacKay, Niall J. *see* **Delius, G. W., 2005e:81093**
Malyshev, K. L. *see* **Bullough, Robin K. et al., 2005d:81176**
Mandal, Bhabani Prasad *see* **Basu-Mallick, B. et al., 2005m:81135**
Mangiarotti, L. *see* **Giachetta, G. et al., 2005b:81054**
Marmo, Giuseppe (*with* Simoni, A.; Ventriglia, Franco) Quantum systems and alternative unitary descriptions. (English summary) **2005f:81094**
Martínez Alonso, Luis (*with* Medina Reus, Elena) Exact solutions of integrable 2D contour dynamics. (English summary) **2005m:81138**
Mathieu, Pierre[1] *see* **Desrosiers, Patrick et al., 2005f:81091** *and* **2005k:81113**
Mazzanti, Liuba *see* **Grisaru, Marcus T. et al., 2005b:81055** *and* **Lechtenfeld, Olaf et al., 2005i:81058**
Medina Reus, Elena *see* **Martínez Alonso, Luis, 2005m:81138**
Meljanac, Stjepan (*with* Mileković, Marijan; Samsarov, Andjelo) Generalized Calogero model in arbitrary dimensions. (English summary) **2005b:81060**
— (*with* Samsarov, Andjelo) Matrix oscillator and Calogero-type models. (English summary) **2005d:81179**
— *see also* **Mileković, Marijan et al.**
Mileković, Marijan (*with* Meljanac, Stjepan; Samsarov, Andjelo) Aspects of generalized Calogero model. (English summary)
— *see also* **Meljanac, Stjepan et al., 2005b:81060**
Mintchev, M. (*with* Ragoucy, É.; Sorba, P.) Reflection-transmission algebras. (English summary) **2005g:81141**
— (*with* Ragoucy, É.) Interplay between Zamolodchikov-Faddeev and reflection-transmission algebras. (English summary) **2005c:81087**
— (*with* Sorba, P.) Finite temperature quantum field theory with impurities. (English summary) **2005h:81163**
— *see also* **Caudrelier, V. et al., 2005j:81074**
Miramontes, J. Luis T-duality in massive integrable field theories: the homogeneous and complex sine-Gordon models. (English summary) **2005g:81142**
Mishra, S. C. *see* **Hiranwal, Roshan et al., 2005c:81085**
Mishra, Veena *see* **Hiranwal, Roshan et al., 2005c:81085**
Miwa, Tetsuji *see* **Jimbo, Michio et al., 2005c:81086**
de Moura, Adriano Adrega Elliptic dynamical R-matrices from the monodromy of the q-Knizhnik-Zamolodchikov equations for the standard representation of $U_q(\widehat{sl}_{n+1})$. **2005b:81061**
Mukhin, E. E. *see* **Jimbo, Michio et al., 2005c:81086**
Müller-Hoissen, Folkert *see* **Dimakis, Aristophanes, 2005e:81095**
Mussardo, G. *see* **Controzzi, D.**
Myagkiĭ, A. N. *see* **Galazhinskiĭ, A. V., 2005c:81084**
Neelov, A. I. Equivalence of the super Lax and local Dunkl operators for Calogero-like models. (English summary) **2005f:81095**
Nijhoff, Frank W. *see* **Field, Chris M., 2005i:81057**
Penati, Silvia *see* **Grisaru, Marcus T. et al., 2005b:81055** *and* **Lechtenfeld, Olaf et al., 2005i:81058**
Peng, Dan-Tao *see* **Hou, Bo-Yu et al., 2005b:81056**
Petracci, Emanuela Universal solutions for the classical dynamical Yang-Baxter equation and the Maurer-Cartan equations. (English summary) **2005i:81059**
Popov, Alexander D. *see* **Lechtenfeld, Olaf et al., 2005i:81058**
Quano, Yas-Hiro Quantum Knizhnik-Zamolodchikov equations of level 0 and form factors in SOS model. (English summary) **2005e:81097**
Ragnisco, Orlando (*with* Sasaki, Ryu) Quantum versus classical integrability in Ruijsenaars-Schneider systems. (English summary) **2005e:81098**
Ragoucy, É. *see* **Caudrelier, V. et al., 2005c:81083; 2005j:81073; 2005j:81074; Mintchev, M. et al., 2005c:81087** *and* **2005g:81141**
Rim, Chaiho *see* **Dorey, Patrick et al., 2005d:81177**
Rybin, Andrei V. *see* **Bullough, Robin K. et al., 2005d:81176**
Saito, Satoru *see* **Yamaguchi, Hironori, 2005k:81117**
Saleur, Hubert (*with* Wehefritz-Kaufmann, Birgit) Integrable quantum field theories with supergroup symmetries: the OSp(1/2) case. (English summary) **2005a:81091**
Samsarov, Andjelo *see* **Meljanac, Stjepan et al., 2005b:81060; 2005d:81179** *and* **Mileković, Marijan et al.**
Saponov, P. A. The Weyl approach to the representation theory of reflection equation algebra. (English summary) **2005m:81139**
Sardanashvili, G. A. *see* **Giachetta, G. et al., 2005b:81054**
Sarma, Debojit Constructing a supersymmetric integrable system from the Hirota method in superspace. (English summary) **2005a:81092**
Sasaki, Ryu *see* **Loris, I., 2005b:81059** *and* **Ragnisco, Orlando, 2005e:81098**
Sen, Diptiman *see* **Basu-Mallick, B. et al., 2005g:81139**
Sergeev, Aleksandr Nikolaevich (*with* Veselov, A. P.) Deformed quantum Calogero-Moser problems and Lie superalgebras. (English summary) **2005a:81093**
Sheftel′, M. B. On the classification of third-order integrals of motion in two-dimensional quantum mechanics. (English summary) **2005h:81164**
Shi, Kang-Jie *see* **Hou, Bo-Yu et al., 2005b:81056**
Shigechi, Keiichi (*with* Wadati, Miki; Wang, Ning[3]) WDVV equation and triple-product relation. (English summary) **2005i:81060**
Simoni, A. *see* **Marmo, Giuseppe et al., 2005f:81094**
Smirnov, Fedor A. Baxter equations and deformation of abelian differentials. (English summary) **2005m:81140**
Sorba, P. *see* **Mintchev, M. et al., 2005g:81141** *and* **2005h:81163**
Sotkov, G. M. *see* **Cabrera-Carnero, I. et al., 2005e:81092** *and* **Gomes, J. F. et al.**
Spiridonov, V. P. *see* **Korovnichenko, A. et al., 2005b:81057**
Stöckmann, Hans-Jürgen The Calogero-Moser equation system and the ensemble average in the Gaussian ensembles. (English summary) **2005a:81094**
Takemura, Kouichi On the Inozemtsev model. (English summary) **2005e:81099**
— The Heun equation and the Calogero-Moser-Sutherland system. II. Perturbation and algebraic solution. (English summary) **2005d:81180**
Takeyama, Yoshihiro *see* **Jimbo, Michio et al., 2005c:81086**
Tamassia, Laura *see* **Grisaru, Marcus T. et al., 2005b:81055** *and* **Lechtenfeld, Olaf et al., 2005i:81058**
Tateo, Roberto *see* **Dorey, Patrick et al., 2005d:81177**
Tempesta, Piergiulio On superintegrable systems in E_2: algebraic properties and symmetry preserving discretization. (English summary) **2005i:81061**
Timonen, Jussi *see* **Bullough, Robin K. et al., 2005d:81176**
Tseĭtlin, A. M. *see* **Kulish, Petr Petrovich, 2005f:81093** *and* **2005k:81116**
Tsyganov, Andreĭ Vladimirovich[1] (*with* Goremykin, O. V.) Integrable systems on so(4) related to XXX spin chains with boundaries. (English summary) **2005c:81088**
Turbiner, A. V. *see* **Lopez Vieyra, Juan C., 2005b:81058**
Usmanov, R. A. *see* **Belavin, A. A., 2005b:81053**
Varzugin, G. G. *see* **Bullough, Robin K. et al., 2005d:81176**
Ventriglia, Franco *see* **Marmo, Giuseppe et al., 2005f:81094**
Verçin, Abdullah *see* **Kuru, Şengül**
Veselov, A. P. *see* **Sergeev, Aleksandr Nikolaevich, 2005a:81093**
Wadati, Miki *see* **Shigechi, Keiichi et al., 2005i:81060**
Wang, Ning[3] *see* **Shigechi, Keiichi et al., 2005i:81060**
Wehefritz-Kaufmann, Birgit *see* **Saleur, Hubert, 2005a:81091**
Winternitz, Pavel *see* **Bérubé, Josée, 2005i:81056**
Yamaguchi, Hironori (*with* Saito, Satoru) A realization of matrix KP hierarchy by coincident D-brane states. (English summary) **2005k:81117**
Yue, Rui-Hong *see* **Hou, Bo-Yu et al., 2005b:81056**
Zambon, C. *see* **Bowcock, P. et al., 2005j:81072**
Zhedanov, A. S. *see* **Korovnichenko, A. et al., 2005b:81057**
Zimerman, A. H. *see* **Aratyn, Henrik et al., 2005c:81082; Cabrera-Carnero, I. et al., 2005e:81092** *and* **Gomes, J. F. et al.**

Items with secondary classifications in 81R12

Adler, V. E. (*with* Suris, Yu. B.) Q_4: integrable master equation related to an elliptic curve. **2005f:37135**
Ahn, Changrim (*with* Bajnok, Zoltán; Nepomechie, Rafael I.; Palla, László; Takács, Gábor) NLIE for hole excited states in the sine-Gordon model with two boundaries. (English summary) **2005k:81160**
Alcaraz, Francisco C. (*with* Lazo, Matheus J.) Exact solutions of exactly integrable quantum chains by a matrix product ansatz. (English summary) **2005e:82022**
Alexandrov, Alexander Sergeevich (*with* Morozov, A. Yu.; Mironov, A. D.) Partition functions of matrix models: first special functions of string theory. (English summary) **2005m:81228**
Alonso Izquierdo, A. (*with* González León, M. A.; de la Torre Mayado, M.; Mateos Guilarte, J.) Changing shapes: adiabatic dynamics of composite solitary waves. (English summary) **2005h:35298**
Amaro de Faria, A. C., Jr. *see* **de Souza Dutra, A., 2005j:35189**

Ambjørn, Jan (*with* Khachatryan, Shahane; Sedrakyan, Ara G.) An integrable model with a non-reducible three particle R-matrix. (English summary) **2005c:82024**

Anco, Stephen C. (*with* Wolf, Thomas Otto) Some symmetry classifications of hyperbolic vector evolution equations. (English summary) **2005i:35171**

Aoyama, Shogo (*with* Masuda, Takahiro) The Whitham deformation of the Dijkgraaf-Vafa theory. (English summary) **2005e:81223**

Apikyan, S. A. (*with* Barsamyan, M. A.; Efthimiou, Costas J.) Geometric properties of W-algebras, and the Toda model. (Russian. Russian summary) **2005f:81087**

Arnaudon, Daniel (*with* Crampé, N.; Frappat, Luc; Ragoucy, É.) Super Yangian $Y(\mathrm{osp}(1|2))$ and the universal R-matrix of its quantum double. (English summary) **2005a:17009**

— (*with* Sedrakyan, Ara G.; Sedrakyan, T.) Multi-leg integrable ladder models. (English summary) **2005d:82031**

— *see also* **Sakamoto, Reiho et al., 2005k:81109**

Arutyunov, Gleb E. (*with* Staudacher, Matthias) Matching higher conserved charges for strings and spins. (English summary) **2005a:81210**

— (*with* Russo, Jorge G.; Tseytlin, A. A.) Spinning strings in $AdS_5 \times S^5$: new integrable system relations. (English summary) **2005f:83096**

Avan, Jean *see* **Nagy, Zoltán et al., 2005h:81174**

Babujian, H. (*with* Karowski, M.) Towards the construction of Wightman functions of integrable quantum field theories. (English summary) **2005j:81101**

Bajnok, Zoltán *see* **Ahn, Changrim et al., 2005k:81160**

Barsamyan, M. A. *see* **Apikyan, S. A. et al., 2005f:81087**

Baseilhac, Pascal (*with* Koizumi, Kouzou) $N = 2$ boundary supersymmetry in integrable models and perturbed boundary conformal field theory. (English summary) **2005b:81170**

Beisert, Niklas Higher-loop integrability in $\mathcal{N} = 4$ gauge theory. (English and French summaries) **2005m:81296**

— The $\mathfrak{su}(2|3)$ dynamic spin chain. (English summary) **2005g:81298**

Belavin, A. A. Centre of quantum group in roots of unity and the restriction of integrable models. (English summary) **2005d:81201**

— *see also* **Proceedings: Workshop on Conformal Field Theory and Integrable Models, 6th International**

Belitsky, A. V. (*with* Braun, V. M.; Gorskiĭ, A. S.; Korchemsky, G. P.) Integrability in QCD and beyond. (English summary) **2005h:81350**

— (*with* Derkachov, S. É.; Korchemsky, G. P.; Manashov, A. N.) Quantum integrability in (super) Yang-Mills theory on the light-cone. (English summary) **2005e:81227**

Berenstein, David (*with* Cherkis, Sergey A.) Deformations of $\mathcal{N} = 4$ SYM and integrable spin chain models. (English summary) **2005h:81352**

Bertola, Marco Second and third order observables of the two-matrix model. (English summary) **2005a:81157**

Bérubé, Josée (*with* Winternitz, Pavel) Integrable and superintegrable quantum systems in a magnetic field. (English summary) **2005d:81128**

Błaszak, Maciej *see* **Szablikowski, Błażej M., 2005b:37161** *and* **2005m:37169**

Bolsinov, A. V. (*with* Matveev, Vladimir S.) Geometrical interpretation of Benenti systems. (English summary) **2005d:37117**

Boos, Herman E. (*with* Korepin, Vladimir; Smirnov, Fedor A.) New formulae for solutions of quantum Knizhnik-Zamolodchikov equations on level-4. (English summary) **2005e:82024**

Borisov, Lev A. (*with* Mukhin, E. E.) Self-self-dual spaces of polynomials. (English summary) **2005m:82035**

Boyarskiĭ, A. M. (*with* Kulik, Bogdan; Ruchayskiy, Oleg) String field theory vertices, integrability and boundary states. (English summary) **2005d:81273**

Bracken, Paul Spin model equations, connections with integrable systems and applications to magnetic vortices. (English summary) **2005c:82013**

— Reductions of Chern-Simons theory related to integrable systems which have geometric applications. (English summary) **2005c:81136**

Braden, Harry W. (*with* Hollowood, Timothy J.) The curve of compactified 6D gauge theories and integrable systems. (English summary) **2005d:81328**

— (*with* Dolgushev, V. A.; Ol′shanetskiĭ, M. A.; Zotov, A. V.) Classical r-matrices and the Feigin-Odesskii algebra via Hamiltonian and Poisson reductions. (English summary) **2005h:37009**

Braun, V. M. *see* **Belitsky, A. V. et al., 2005h:81350**

Brihaye, Yves (*with* Nininahazwe, Ancilla) On PT-symmetric extensions of the Calogero and Sutherland models. (English summary) **2005e:81255**

Buffenoir, E. (*with* Roche, Ph.) An infinite product formula for $U_q(\mathrm{sl}(2))$ dynamical coboundary element. (English summary) **2005f:17013**

Bullough, Robin K. (*with* Wadati, Miki) Optical solitons and quantum solitons. (English summary) **2005d:81402**

Calogero, Francesco A technique to identify solvable dynamical systems, and a solvable generalization of the goldfish many-body problem. (English summary) **2005d:37119**

Carroll, Robert Wayne Star products and integrability. (English summary) **2005a:81107**

— Hirota formulas and q-hierarchies. (English summary) **2005e:37147**

— Aspects of quantum groups and integrable systems. (English summary) **2005e:37148**

Castro-Alvaredo, Olalla (*with* Fring, Andreas) Universal boundary reflection amplitudes. (English summary) **2005d:81234**

— (*with* Fring, Andreas) On vacuum energies and renormalizability in integrable quantum field theories. (English summary) **2005a:81195**

Chadzitaskos, Goce (*with* Horowski, Maciej; Odzijewicz, Anatol; Tereszkiewicz, Agnieszka) The exact solution of the eigenvalue problem for the parametric down conversion process in the Kerr medium. (English summary)

— *see also* **Horowski, Maciej et al., 2005c:81257**

Cherkis, Sergey A. *see* **Berenstein, David, 2005h:81352**

Chernyakov, Yu. B. Integrable systems obtained by a fusion of points from rational and elliptic Gaudin systems. (Russian. Russian summary) **2005j:37093**

Cieśliński, Jan L. How to construct Darboux-invariant equations of von Neumann type. (English summary) **2005e:37149**

Corrigan, Edward (*with* Zambon, C.) Aspects of sine-Gordon solitons, defects and gates. (English summary) **2005j:81118**

— *see also* **Proceedings: Workshop on Conformal Field Theory and Integrable Models, 6th International**

Crampé, N. *see* **Arnaudon, Daniel et al., 2005a:17009**

Das, Ashok (*with* Popowicz, Ziemowit) Bosonic reduction of susy generalized Harry Dym equation. (English summary) **2005d:37141**

Date, Etsuro (*with* Usami, Kosuke) On an analog of the Onsager algebra of type $D_n^{(1)}$. (English summary) **2005a:17023**

Deguchi, Tetsuo The sl_2 loop algebra symmetry of the twisted transfer matrix of the six-vertex model at roots of unity. (English summary) **2005i:82024**

Delfino, Gesualdo Integrable field theory and critical phenomena: the Ising model in a magnetic field. (English summary) **2005g:81271**

— (*with* Niccoli, Giuliano) Form factors of descendant operators in the massive Lee-Yang model. (English summary) **2005m:81196**

Derkachov, S. É. *see* **Belitsky, A. V. et al., 2005e:81227**

Desrosiers, Patrick (*with* Lapointe, Luc; Mathieu, Pierre[1]) Jack superpolynomials: physical and combinatorial definitions. (English summary) **2005j:33018**

— (*with* Lapointe, Luc; Mathieu, Pierre[1]) Explicit formulae for the generalized Hermite polynomials in superspace. (English summary) **2005b:33010**

van Diejen, Jan F. Scattering theory of discrete (pseudo) Laplacians on a Weyl chamber. (English summary) **2005m:58063**

— On the equilibrium configuration of the BC-type Ruijsenaars-Schneider system. (English summary) **2005m:37130**

Dolan, Louise (*with* Nappi, Chiara R.; Witten, Edward) A relation between approaches to integrability in superconformal Yang-Mills theory. (English summary) **2005a:81141**

Dolgushev, V. A. *see* **Braden, Harry W. et al., 2005h:37009**

Dorey, Patrick (*with* Suzuki, Junji; Tateo, Roberto) Finite lattice Bethe ansatz systems and the Heun equation. (English summary) **2005c:82010**

— (*with* Miramontes, J. Luis) Mass scales and crossover phenomena in the homogeneous sine-Gordon models. (English summary) **2005k:81163**

Efthimiou, Costas J. *see* **Apikyan, S. A. et al., 2005f:81087**

Evans, Jonathan M. (*with* Kagan, David; Young, Charles A. S.; MacKay, Niall J.) Quantum, higher-spin, local charges in symmetric space sigma models. (English summary) **2005m:81294**

Farahat, N. I. *see* **Muslih, Sami I. et al., 2005k:81153**

Feĭgin, B. (*with* Jimbo, Michio; Kashiwara, Masaki; Miwa, Tetsuji; Mukhin, E. E.; Takeyama, Yoshihiro) A functional model for the tensor product of level 1 highest and level -1 lowest modules for the quantum affine algebra $U_q(\widehat{\mathfrak{sl}}_2)$. (English summary) **2005g:17031**

Finkel, F. (*with* Gómez-Ullate Oteiza, D.; González-López, Artemio; Rodríguez, Miguel Angel[2]; Zhdanov, R. Z.) On the Sutherland spin model of B_N type and its associated spin chain. (English summary) **2005c:82016**

— (*with* Gómez-Ullate Oteiza, D.; González-López, Artemio; Rodríguez, Miguel Angel[2]; Zhdanov, R. Z.) A survey of quasi-exactly solvable systems and spin Calogero-Sutherland models. (English summary) **2005k:81354**

Frappat, Luc *see* **Arnaudon, Daniel et al., 2005a:17009** *and* **Sakamoto, Reiho et al., 2005k:81109**

Friedrich, Roland M. (*with* Werner, Wendelin) Conformal restriction, highest-weight representations and SLE. (English summary) **2005b:81172**

Fring, Andreas *see* **Castro-Alvaredo, Olalla, 2005a:81195** *and* **2005d:81234**

Galleas, W. (*with* Martins, Márcio José) R-matrices and spectrum of vertex models based on superalgebras. (English summary) **2005k:82015**

Ganguli, Surya (*with* Ganor, Ori J.; Gill, James) Twisted six dimensional gauge theories on tori, matrix models, and integrable systems. (English summary) **2005j:81181**

Ganor, Ori J. *see* **Ganguli, Surya et al., 2005j:81181**

von Gehlen, G. (*with* Pakulyak, S. Z.; Sergeev, Sergei M.) The modified tetrahedron equation and its solutions. (English summary) **2005j:82022**

Gerdzhikov, V. S. (*with* Grahovski, Georgi G.) On N-wave and NLS type systems: generating operators and the gauge group action: the so(5) case. (English summary) **2005b:37149**

Ghosh, Pijush Kanti Super-Calogero model with OSp(2|2) supersymmetry: is the construction unique? (English summary) **2005d:81159**

Gill, James *see* **Ganguli, Surya et al., 2005j:81181**

Gomes, J. F. (*with* Sotkov, G. M.; Zimerman, A. H.) T-duality in 2D integrable models. (English summary) **2005c:81186**

Gómez-Ullate Oteiza, D. *see* **Finkel, F. et al., 2005c:82016** *and* **2005k:81354**

Gonera, Cezary Isochronic potentials and new family of superintegrable systems. (English summary) **2005a:37096**

González León, M. A. *see* **Alonso Izquierdo, A. et al., 2005h:35298**

González-López, Artemio *see* **Finkel, F. et al., 2005c:82016** *and* **2005k:81354**

Gorskiĭ, A. S. *see* **Belitsky, A. V. et al., 2005h:81350**

Grahovski, Georgi G. *see* **Gerdzhikov, V. S., 2005b:37149**

Grammaticos, B. *see* **Ramani, A. et al., 2005a:37114**

Gribanov, V. V. (*with* Kadyshevskiĭ, V. G.; Sorin, A. S.) Periodic supersymmetric Toda lattice hierarchy. (English summary) **2005j:37129**

Gurevich, Aleksandr Viktor (*with* Mazur, N. G.; Zybin, K. P.) Statistical limit in a completely integrable system. (English summary) **2005a:37124**

Hamanaka, Masashi (*with* Toda, Kouichi) Towards noncommutative integrable equations. (English summary)

Harnad, John (*with* Orlov, A. Yu.) Scalar products of symmetric functions and matrix integrals. (Russian. Russian summary) **2005i:82025**

— *see also* **Superintegrability in classical and quantum systems, 2005g:00018**

Hassan, Mahmood-Ul *see* **Siddiq, M., 2005m:35264**

Heles, M. R. *see* **Muslih, Sami I. et al., 2005k:81153**

Hollowood, Timothy J. *see* **Braden, Harry W., 2005d:81328**

Hornos, José Eduardo M. *see* **Novaes, Marcel, 2005i:81047**

Horowski, Maciej (*with* Chadzitaskos, Goce; Odzijewicz, Anatol; Tereszkiewicz, Agnieszka) Systems with intensity-dependent conversion integrable by finite orthogonal polynomials. (English summary) **2005c:81257**

— *see also* **Chadzitaskos, Goce et al.**

Hu, Xing-Biao *see* **Li, Chun-Xia**

Inozemtsev, V. I. The eigenvectors of the Heisenberg Hamiltonian with elliptic form of the exchange spin interaction. (English summary) **2005k:82011**

Itoyama, Hiroshi (*with* Kanno, Hiroaki) Whitham prepotential and superpotential. (English summary) **2005c:81204**
Ivanov, Rossen I. On the dressing method for the generalised Zakharov-Shabat system. (English summary) **2005g:37124**
Jimbo, Michio *see* **Feĭgin, B. et al., 2005g:17031**
Kadyshevskiĭ, V. G. *see* **Gribanov, V. V. et al., 2005j:37129**
Kagan, David *see* **Evans, Jonathan M. et al., 2005m:81294**
Kanno, Hiroaki *see* **Itoyama, Hiroshi, 2005c:81204**
Karowski, M. *see* **Babujian, H., 2005j:81101**
Kashiwara, Masaki *see* **Feĭgin, B. et al., 2005g:17031**
Kato, Go (*with* Wadati, Miki) Bethe ansatz cluster expansion method for quantum integrable particle systems. (English summary) **2005c:82026**
Kazakov, Vladimir Aleksandrovich[1] (*with* Marshakov, Andrei; Minahan, Joseph A.; Zarembo, Konstantin) Classical/quantum integrability in AdS/CFT. (English summary) **2005g:81244**
— (*with* Zarembo, Konstantin) Classical/quantum integrability in non-compact sector of AdS/CFT. (English summary) **2005h:81294**
Kennaway, Kristian D. (*with* Warner, Nicholas P.) Effective superpotentials, geometry and integrable systems. (English summary) **2005g:81306**
Khachatryan, Shahane *see* **Ambjørn, Jan et al., 2005c:82024**
Khare, Avinash (*with* Loris, I.; Sasaki, Ryu) Affine Toda-Sutherland systems. (English summary) **2005b:37152**
Khvedelidze, A. M. On the Hamiltonian formulation of gauge theories in terms of physical variables. (English summary) **2005h:81216**
Klemm, Albrecht (*with* Landsteiner, Karl; Lazaroiu, Calin Iuliu; Runkel, Ingo) Constructing gauge theory geometries from matrix models. (English summary) **2005a:81227**
Klimčík, Ctirad Quasitriangular WZW model. (English summary) **2005m:81161**
Klishevich, Sergei (*with* Plyushchaĭ, M. S.) Dolan-Grady relations and noncommutative quasi-exactly solvable systems. (English summary) **2005d:81373**
Kogetsu, Hisashi (*with* Teraguchi, Shunsuke) Massless boundary sine-Gordon model coupled to external fields. (English summary) **2005k:81166**
Koizumi, Kouzou *see* **Baseilhac, Pascal, 2005b:81170**
Konik, Robert M. Kondo-Fano resonances in quantum dots: results from the Bethe ansatz. (English summary) **2005h:82062**
Korchemsky, G. P. *see* **Belitsky, A. V. et al., 2005e:81227** *and* **2005h:81350**
Korepin, Vladimir *see* **Boos, Herman E. et al., 2005e:82024**
Korff, Christian Auxiliary matrices on both sides of the equator. (English summary) **2005j:82014**
Kostov, Ivan K. Integrable flows in $c = 1$ string theory. (English summary) **2005h:81297**
Koval′skiĭ, A. È. (*with* Pron′ko, G. P.) Baxter Q-operators for an integrable discrete self-trapping chain. (Russian. Russian summary) **2005m:82040**
Kulik, Bogdan *see* **Boyarskiĭ, A. M. et al., 2005d:81273**
Kulish, Petr Petrovich (*with* Tseĭtlin, A. M.) Superconformal field theory and SUSY $N = 1$ KdV hierarchy. II. The Q-operator. (English summary) **2005m:81276**
Kurak, V. (*with* Lima-Santos, A.) Algebraic Bethe ansatz for the Zamolodchikov-Fateev and Izergin-Korepin models with open boundary conditions. (English summary) **2005h:82033**
Kuznetsov, Vadim B. Inverse problem for SL(2) lattices. (English summary) **2005b:37124**
Landsteiner, Karl *see* **Klemm, Albrecht et al., 2005a:81227**
Langmann, Edwin Second quantization of the elliptic Calogero-Sutherland model. (English summary) **2005h:81207**
— Gauge theory approach towards an explicit solution of the (classical) elliptic Calogero-Moser system. (English summary) **2005m:37160**
Lapointe, Luc *see* **Desrosiers, Patrick et al., 2005b:33010** *and* **2005j:33018**
Lazaroiu, Calin Iuliu *see* **Klemm, Albrecht et al., 2005a:81227**
Lazo, Matheus J. *see* **Alcaraz, Francisco C., 2005e:82022**
Lechtenfeld, Olaf (*with* Sorin, A. S.) A note on fermionic flows of the $N = (1|1)$ supersymmetric Toda lattice hierarchy. (English summary) **2005c:37126**
Lee, Ki-Myeong Chern-Simons solitons, chiral model, and (affine) Toda model on noncommutative space. (English summary) **2005h:81404**
Lee, Taejun (*with* Rim, Chaiho) Thermodynamic Bethe ansatz for boundary sine-Gordon model. (English summary) **2005c:81128**
Levi, Decio (*with* Tempesta, Piergiulio; Winternitz, Pavel) Umbral calculus, difference equations and the discrete Schrödinger equation. (English summary) **2005h:39036**
Li, Chun-Xia (*with* Hu, Xing-Biao) Pfaffianization of the semi-discrete Toda equation. (English summary)
Li, Luen-Chau A family of hyperbolic spin Calogero-Moser systems and the spin Toda lattices. (English summary) **2005j:37095**
Lima-Santos, A. *see* **Kurak, V., 2005h:82033**
Liu, Wang-Yun *see* **Zhao, Liu et al., 2005a:37147**
Lombardo, Sara (*with* Mikhaĭlov, A. V.) Reductions of integrable equations: dihedral group. (English summary) **2005e:37154**
Loris, I. *see* **Khare, Avinash et al., 2005b:37152**
Loutsenko, Igor Integrable dynamics of charges related to the bilinear hypergeometric equation. (English summary) **2005g:37109**
— Equilibrium of charges and differential equations solved by polynomials. (English summary) **2005f:34004**
Lukyanov, S. L. (*with* Vitchev, E. S.; Zamolodchikov, Aleksandr B.) Integrable model of boundary interaction: the paperclip. (English summary) **2005f:81212**
Ma, Wen Xiu (*with* Xu, Xi Xiang) A modified Toda spectral problem and its hierarchy of bi-Hamiltonian lattice equations. (English summary) **2005a:37145**
— (*with* Maruno, Ken-ichi) Complexiton solutions of the Toda lattice equation. (English summary) **2005h:37181**
MacKay, Niall J. *see* **Evans, Jonathan M. et al., 2005m:81294**
Manashov, A. N. *see* **Belitsky, A. V. et al., 2005e:81227**
Marshakov, Andrei *see* **Kazakov, Vladimir Aleksandrovich**[1] **et al., 2005g:81244**
Martins, Márcio José *see* **Ribeiro, G. A. P., 2005i:82027** *and* **Galleas, W., 2005k:82015**
Maruno, Ken-ichi *see* **Ma, Wen Xiu, 2005h:37181**
Masuda, Takahiro *see* **Aoyama, Shogo, 2005e:81223**
Mateos Guilarte, J. *see* **Alonso Izquierdo, A. et al., 2005h:35298**
Mathieu, Pierre[1] *see* **Desrosiers, Patrick et al., 2005b:33010** *and* **2005j:33018**
Matveev, Vladimir S. *see* **Bolsinov, A. V., 2005d:37117**
Mazur, N. G. *see* **Gurevich, Aleksandr Viktor et al., 2005a:37124**
Mikhaĭlov, A. V. *see* **Lombardo, Sara, 2005e:37154**
(Miller, Willard, Jr.) *see* **Superintegrability in classical and quantum systems, 2005g:00018**
Minahan, Joseph A. *see* **Kazakov, Vladimir Aleksandrovich**[1] **et al., 2005g:81244**
Miramontes, J. Luis *see* **Dorey, Patrick, 2005k:81163**
Mironov, A. D. Integrability in string/field theories and Hamiltonian flows in the space of physical systems. (Russian. Russian summary) **2005a:81181**
— *see also* **Alexandrov, Alexander Sergeevich et al., 2005m:81228**
Miwa, Tetsuji *see* **Feĭgin, B. et al., 2005g:17031**
Morozov, A. Yu. *see* **Alexandrov, Alexander Sergeevich et al., 2005m:81228**
Mourad, M. F. *see* **Zait, R. A., 2005m:81316**
Mukaihira, Atsushi (*with* Tsujimoto, Satoshi) Determinant structure of R_I type discrete integrable system. (English summary) **2005d:37158**
Mukhin, E. E. *see* **Feĭgin, B. et al., 2005g:17031** *and* **Borisov, Lev A., 2005m:82035**
Muslih, Sami I. (*with* Farahat, N. I.; Heles, M. R.) Hamilton-Jacobi quantization of constrained systems with second-order Lagrangians: splines in the Euclidean 3-space. (English summary) **2005k:81153**
Musso, Fabio (*with* Petrera, Matteo; Ragnisco, Orlando) Algebraic extensions of Gaudin models. (English summary) **2005h:37127**
Nagoya, Hajime Quantum Painlevé systems of type $A_l^{(1)}$. (English summary) **2005j:37126**
Nagy, Zoltán (*with* Avan, Jean; Rollet, Geneviève) Construction of dynamical quadratic algebras. (English summary) **2005h:81174**
Nakamura, Yoshimasa (*with* Zhedanov, A. S.) Special solutions of the Toda chain and combinatorial numbers. (English summary) **2005e:37176**
Nakayashiki, Atsushi The chiral space of local operators in SU(2)-invariant Thirring model. (English summary) **2005c:81130**
Nappi, Chiara R. *see* **Dolan, Louise et al., 2005a:81141**
Nepomechie, Rafael I. *see* **Ahn, Changrim et al., 2005k:81160**
Niccoli, Giuliano *see* **Delfino, Gesualdo, 2005m:81196**
Nichols, Alexander Extended chiral algebras and the emergence of SU(2) quantum numbers in the Coulomb gas. (English summary) **2005a:81200**
Nininahazwe, Ancilla *see* **Brihaye, Yves, 2005e:81255**
Novaes, Marcel (*with* Hornos, José Eduardo M.) Quantum nonintegrability and the classical limit for usp(4) systems. (English summary) **2005i:81047**
Odake, Satoru (*with* Sasaki, Ryu) Polynomials associated with equilibria of affine Toda-Sutherland systems. (English summary) **2005h:37128**
— (*with* Sasaki, Ryu) Equilibria of 'discrete' integrable systems and deformation of classical orthogonal polynomials. (English summary) **2005i:37068**
Odzijewicz, Anatol *see* **Horowski, Maciej et al., 2005c:81257** *and* **Chadzitaskos, Goce et al.**
Okuyama, Kazumi (*with* Tseng, Li-Sheng) Three-point functions in $\mathcal{N} = 4$ SYM theory at one-loop. (English summary) **2005h:81380**
Ol′shanetskiĭ, M. A. The large N limits of integrable models. (English and Russian summaries) **2005g:37127**
— *see also* **Braden, Harry W. et al., 2005h:37009**
Orlov, A. Yu. *see* **Harnad, John, 2005i:82025**
Pakulyak, S. Z. *see* **von Gehlen, G. et al., 2005j:82022**
Palla, László *see* **Ahn, Changrim et al., 2005k:81160**
Petrera, Matteo *see* **Musso, Fabio et al., 2005h:37127**
Plyushchaĭ, M. S. *see* **Klishevich, Sergei, 2005d:81373**
(Pogosyan, George S.) *see* **Superintegrability in classical and quantum systems, 2005g:00018**
Pogrebkov, A. K. The boson-fermion correspondence and quantum integrable and dispersionless models. (Russian. Russian summary) **2005c:81131**
Popowicz, Ziemowit *see* **Das, Ashok, 2005d:37141**
Pron′ko, G. P. *see* **Koval′skiĭ, A. È., 2005m:82040**
(Pugai, Yaroslav) *see* **Proceedings: Workshop on Conformal Field Theory and Integrable Models, 6th International**
Ragnisco, Orlando *see* **Musso, Fabio et al., 2005h:37127**
Ragoucy, É. *see* **Arnaudon, Daniel et al., 2005a:17009** *and* **Sakamoto, Reiho et al., 2005k:81109**
Ramani, A. (*with* Tamizhmani, T.; Grammaticos, B.; Tamizhmani, K. M.) The extension of integrable mappings to non-commuting variables. (English summary) **2005a:37114**
Rauch-Wojciechowski, Stefan (*with* Waksjö, Claes) What an effective criterion of separability says about the Calogero type systems. (English summary) **2005i:70045**
Ribeiro, G. A. P. (*with* Martins, Márcio José) Mixed integrable SU(N) vertex model with arbitrary twists. (English summary) **2005i:82027**
Rim, Chaiho *see* **Lee, Taejun, 2005c:81128**
Ritter, William Gordon Dijkgraaf-Vafa matrix models and integrable systems. (English summary) **2005d:81344**
Roche, Ph. *see* **Buffenoir, E., 2005f:17013**
Rodríguez, Miguel Angel[2] *see* **Finkel, F. et al., 2005c:82016; 2005k:81354** *and* **Superintegrability in classical and quantum systems, 2005g:00018**
Roiban, Radu (*with* Volovich, Anastasia) Yang-Mills correlation functions from integrable spin chains. (English summary) **2005i:81169**
Rollet, Geneviève *see* **Nagy, Zoltán et al., 2005h:81174**
Ruchayskiy, Oleg *see* **Boyarskiĭ, A. M. et al., 2005d:81273**
Ruijsenaars, S. N. M. A generalized hypergeometric function. II. Asymptotics and D_4 symmetry. (English summary) **2005e:33012**
— A generalized hypergeometric function. III. Associated Hilbert space transform. (English summary) **2005e:33013**
— Parameter shifts, D_4 symmetry and joint eigenfunctions for commuting Askey-Wilson-type difference operators. (English summary) **2005g:39037**
Rump, Wolfgang A decomposition theorem for square-free unitary solutions of the quantum Yang-Baxter equation. (English summary) **2005k:81132**
Runkel, Ingo *see* **Klemm, Albrecht et al., 2005a:81227**
Russo, Jorge G. Spinning strings in $AdS_5 \times S^5$ and integrable systems. (English summary) **2005b:81158**
— *see also* **Arutyunov, Gleb E. et al., 2005f:83096**

Saito, Satoru (*with* Sato, Ryuichi) Soliton equations solved by the boundary CFT. (English summary) **2005c:81189**
— *see also* **Sato, Ryuichi, 2005h:81315**
Sakakibara, Masato On the differential equations of the characters for the renormalization group. (English summary) **2005e:81150**
Sakamoto, Reiho (*with* Shiraishi, Jun'ichi; Arnaudon, Daniel; Frappat, Luc; Ragoucy, É.) Correspondence between conformal field theory and Calogero-Sutherland model. (English summary) **2005k:81109**
Sämann, Christian The topological B-model on fattened complex manifolds and subsectors of $\mathcal{N} = 4$ self-dual Yang-Mills theory. (English summary) **2005m:81292**
Sasaki, Ryu Quantum vs. classical integrability in Ruijsenaars-Schneider and Calogero-Moser systems. (English summary) **2005b:37126**
— *see also* **Khare, Avinash et al., 2005b:37152; Odake, Satoru, 2005h:37128; 2005i:37068** *and* **Yang, Wen Li[2] et al., 2005h:82027**
Sato, Ryuichi (*with* Saito, Satoru) D-brane correlators as solutions of Hirota-Miwa equation. (English summary) **2005h:81315**
— *see also* **Saito, Satoru, 2005c:81189**
Sedrakyan, Ara G. *see* **Ambjørn, Jan et al., 2005c:82024** *and* **Arnaudon, Daniel et al., 2005d:82031**
Sedrakyan, T. *see* **Arnaudon, Daniel et al., 2005d:82031**
Sergeev, Sergei M. Functional equations and quantum separation of variables for three-dimensional spin models. (Russian. Russian summary) **2005d:82035**
— *see also* **von Gehlen, G. et al., 2005j:82022**
Shiraishi, Jun'ichi *see* **Sakamoto, Reiho et al., 2005k:81109**
Siddiq, M. (*with* Hassan, Mahmood-Ul) On the linearization of the super sine-Gordon equation. (English summary) **2005m:35264**
Skrypnyk, Taras V. 'Doubled' generalized Landau-Lifshitz hierarchies and special quasigraded Lie algebras. (English summary) **2005f:37150**
Smirnov, Fedor A. *see* **Boos, Herman E. et al., 2005e:82024**
Sorin, A. S. *see* **Lechtenfeld, Olaf, 2005c:37126** *and* **Gribanov, V. V. et al., 2005j:37129**
Sotkov, G. M. *see* **Gomes, J. F. et al., 2005c:81186**
de Souza Dutra, A. (*with* Amaro de Faria, A. C., Jr.) Classical versus quantum equivalence between sine-Gordon, Liouville and other solitons. (English summary) **2005j:35189**
Spiridonov, V. P. The factorization method, self-similar potentials and quantum algebras. (English summary) **2005c:81053**
Splittorff, K. (*with* Verbaarschot, J. J. M.) Factorization of correlation functions and the replica limit of the Toda lattice equation. (English summary) **2005d:81240**
— (*with* Verbaarschot, J. J. M.) Supersymmetric quenching of the Toda lattice equation. (English summary) **2005b:81228**
Staudacher, Matthias *see* **Arutyunov, Gleb E., 2005a:81210**
Suris, Yu. B. (*with* Veselov, A. P.) Lax matrices for Yang-Baxter maps. (English summary) **2005c:37131**
— *see also* **Adler, V. E., 2005f:37135**
Suzuki, Junji The dilute A_L models and the integrable perturbations of unitary minimal CFTs. (English summary) **2005b:81177**
— *see also* **Dorey, Patrick et al., 2005c:82010**
Szablikowski, Błażej M. (*with* Błaszak, Maciej) Soliton systems as $\star$-deformed dispersionless equations. (English summary) **2005b:37161**
— (*with* Błaszak, Maciej) On deformations of standard R-matrices for integrable infinite-dimensional systems. (English summary) **2005m:37169**
Takács, Gábor *see* **Ahn, Changrim et al., 2005k:81160**
Takemura, Kouichi The Heun equation and the Calogero-Moser-Sutherland system. III. The finite-gap property and the monodromy. (English summary) **2005d:37124**
Takeyama, Yoshihiro *see* **Feĭgin, B. et al., 2005g:17031**
Tamizhmani, K. M. *see* **Ramani, A. et al., 2005a:37114**
Tamizhmani, T. *see* **Ramani, A. et al., 2005a:37114**
Tanaka, Toshiaki[1] $\mathfrak{sl}(M+1)$ construction of quasi-solvable quantum M-body systems. (English summary) **2005h:81418**
Taniguchi, Kenji On the symmetry of commuting differential operators with singularities along hyperplanes. **2005c:37106**
Tateo, Roberto *see* **Dorey, Patrick et al., 2005c:82010**
Tempesta, Piergiulio *see* **Superintegrability in classical and quantum systems, 2005g:00018** *and* **Levi, Decio et al., 2005h:39036**
Teraguchi, Shunsuke *see* **Kogetsu, Hisashi, 2005k:81166**
Tereszkiewicz, Agnieszka *see* **Horowski, Maciej et al., 2005c:81257** *and* **Chadzitaskos, Goce et al.**
Toda, Kouichi *see* **Hamanaka, Masashi**
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Tsujimoto, Satoshi *see* **Mukaihira, Atsushi, 2005d:37158**
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Varchenko, A. N. ★ Special functions, KZ type equations, and representation theory. **2005g:33021**
Verbaarschot, J. J. M. *see* **Splittorff, K., 2005b:81228** *and* **2005d:81240**
Veselov, A. P. *see* **Suris, Yu. B., 2005c:37131**
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Waksjö, Claes *see* **Rauch-Wojciechowski, Stefan, 2005i:70045**
Wang, Cong Hua (*with* Zhang, Yu Feng[1]) A new subalgebra of the loop algebra $\tilde{A}_2$ and its relevant new integrable system. (Chinese. English and Chinese summaries)
Wang, Jiong Darboux transformation and soliton solutions for the Heisenberg hierarchy. (English summary) **2005m:34141**
Wang, Ning[3] (*with* Wadati, Miki) Noncommutative KP hierarchy and Hirota triple-product relations. (English summary) **2005d:37149**
Wang, Xiao-Jun (*with* Wu, Yong Shi[1]) Integrable spin chain and operator mixing in $\mathcal{N} = 1, 2$ supersymmetric theories. (English summary) **2005a:81235**
Warner, Nicholas P. *see* **Kennaway, Kristian D., 2005g:81306**
Wereszczyński, A. Integrability and Hopf solitons in models with explicitly broken O(3) symmetry. (English summary) **2005h:81212**
Werner, Wendelin *see* **Friedrich, Roland M., 2005b:81172**
Winternitz, Pavel *see* **Bérubé, Josée, 2005d:81128; Superintegrability in classical and quantum systems, 2005g:00018** *and* **Levi, Decio et al., 2005h:39036**
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Yamada, Daisuke Box ball system associated with antisymmetric tensor crystals. (English summary) **2005k:81110**
Yamada, Yuji[1] A remark on solutions of reflection equation for the critical Z_N-symmetric vertex model. (English summary) **2005e:82029**
Yang, Hong Xiang (*with* Xu, Xi Xiang) Integrable expanding models for discrete systems application: coupled Toda and relativistic Toda lattice. (English summary) **2005m:37183**
Yang, Wen Li[2] (*with* Sasaki, Ryu; Zhang, Yao-Zhong) Z_n elliptic Gaudin model with open boundaries. (English summary) **2005h:82027**
Yang, Zhan-Ying *see* **Zhao, Liu et al., 2005a:37147**
Young, Charles A. S. *see* **Evans, Jonathan M. et al., 2005m:81294**
Zait, R. A. (*with* Mourad, M. F.) Supersymmetric WZW σ-model on infinite and half-plane. (English summary) **2005m:81316**
Zambon, C. *see* **Corrigan, Edward, 2005j:81118**
Zamolodchikov, Aleksandr B. *see* **Lukyanov, S. L. et al., 2005f:81212**
Zarembo, Konstantin Semiclassical integrability in AdS/CFT. (English and French summaries) **2005k:81277**
— *see also* **Kazakov, Vladimir Aleksandrovich[1] et al., 2005g:81244** *and* **2005h:81294**
Zhang, Yao-Zhong *see* **Yang, Wen Li[2] et al., 2005h:82027**
Zhang, Yu Feng[1] *see* **Wang, Cong Hua** *and* **Zhao, Jing**
Zhao, Jing (*with* Zhang, Yu Feng[1]) A new loop algebra and its corresponding integrable system. (Chinese. English and Chinese summaries)
Zhao, Liu (*with* Liu, Wang-Yun; Yang, Zhan-Ying) Generalized Toda mechanics associated with classical Lie algebras and their reductions. (English summary) **2005a:37147**
Zhdanov, R. Z. *see* **Finkel, F. et al., 2005c:82016** *and* **2005k:81354**
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Zotov, A. V. *see* **Braden, Harry W. et al., 2005h:37009**
Zuevsky, A. Continual Lie algebras and noncommutative counterparts of exactly solvable models. (English summary) **2005e:81111**
Zybin, K. P. *see* **Gurevich, Aleksandr Viktor et al., 2005a:37124**

Items listed otherwise than by author

Chernogolovka ★ Proceedings of 6th International Workshop on Conformal Field Theory and Integrable Models.
Classical and quantum integrable systems ★ Классические и квантовые интегрируемые системы. (Russian) [Classical and quantum integrable systems] **2005m:81004**
Dubna ★ Классические и квантовые интегрируемые системы. (Russian) [Classical and quantum integrable systems] **2005m:81004**
Montréal, QC ★ Superintegrability in classical and quantum systems. **2005g:00018**
Proceedings:
Workshop on Conformal Field Theory and Integrable Models, 6th International ★ Proceedings of 6th International Workshop on Conformal Field Theory and Integrable Models.
Quantum groups and integrable systems Quantum groups and integrable systems.
Superintegrability in classical and quantum systems ★ Superintegrability in classical and quantum systems. **2005g:00018**

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Åberg, Johan Subspace preservation, subspace locality, and gluing of completely positive maps. (English summary) **2005i:81062**
Bagarello, Fabio On the time evolution of QM_∞ systems: an algebraic approach. (English summary) (*see* **2005c:00016**)
Blanchard, Philippe (*with* Olkiewicz, Robert) Mathematical aspects of decoherence induced classicality in quantum systems. (English summary) **2005j:81076**
Dereziński, Jan (*with* Jakšić, Vojkan) Return to equilibrium for Pauli-Fierz systems. (English summary) **2005b:81062**
Diţă, Petre Finite-level systems, Hermitian operators, isometries and a novel parametrization of Stiefel and Grassmann manifolds. (English summary) **2005m:81141**
Evans, David E. (*with* Pinto, Paulo R.) Modular invariants and their fusion rules. (English summary) **2005i:81063**
Gerisch, Thomas (*with* Honegger, Reinhard; Rieckers, Alfred) Algebraic quantum theory of the Josephson microwave radiator. (English summary) **2005d:81181**
Győry, Máté A new proof of Wigner's theorem. (English summary) **2005k:81118**
Hamhalter, Jan Traces, dispersions of states and hidden variables. (English summary) **2005m:81142**
Honegger, Reinhard *see* **Gerisch, Thomas et al., 2005d:81181**
Jakšić, Vojkan *see* **Dereziński, Jan, 2005b:81062**
King, Christopher (*with* Ruskai, Mary Beth) Comments on multiplicativity of maximal p-norms when $p = 2$. (English summary) **2005k:81119**
Köster, Søren Local nature of coset models. (English summary) **2005f:81096**
Kozitskiĭ, Yu. V. On a theorem of Høegh-Krohn. (English summary) **2005i:81064**
Lieb, Elliott H. (*with* Seiringer, Robert) Equivalent forms of the Bessis-Moussa-Villani conjecture. (English summary) **2005k:81120**
Narnhofer, Heide Quantum K-systems and their abelian models. (English summary) **2005m:81143**
— The Pauli principle for a quantum theory on $\mathbf{T}^2$ with magnetic field. (English summary) **2005d:81182**

Niestegge, Gerd Conditional expectations associated with quantum states. (English summary) **2005m:81144**
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Ruskai, Mary Beth *see* **King, Christopher**, **2005k:81119**
Seiringer, Robert *see* **Lieb, Elliott H.**, **2005k:81120**
Sewell, Geoffrey L. Interplay between classical and quantum structures in algebraic quantum theory. (English summary) **2005f:81097**
Tveritinov, I. D. A relationship between various realizations of Bogolyubov transformations. (Russian) **2005g:81144**

Items with secondary classifications in 81R15

Amrein, W. O. (*with* Măntoiu, Marius; Purice, Radu) Propagation properties for Schrödinger operators affiliated with certain C^*-algebras. (English summary) **2005a:81254**
Araki, Huzihiro (*with* Moriya, Hajime) Local thermodynamical stability of fermion lattice systems. (English summary) **2005a:82013**
— (*with* Moriya, Hajime) Joint extension of states of subsystems for a CAR system. (English summary) **2005a:81105**
Arias, Alvaro (*with* Gudder, Stanley) Almost sharp quantum effects. (English summary) **2005g:81018**
Binz, Ernst (*with* Honegger, Reinhard; Rieckers, Alfred) Construction and uniqueness of the C^*-Weyl algebra over a general pre-symplectic space. (English summary) **2005f:46104**
Brodlie, Alastair Classical and quantum coherent states. (English summary) **2005c:81098**
Bunce, Leslie J. (*with* Hamhalter, Jan) C^*-independence, product states and commutation. (English summary) **2005k:46161**
Carey, Alan L. (*with* Grundling, Hendrik) On the problem of the amenability of the gauge group. (English summary) **2005i:43001**
Chryssomalakos, Chryssomalis (*with* Đurđević, Mićo) Higher order measures, generalized quantum mechanics and Hopf algebras. (English summary) **2005d:81009**
Civitarese, O. (*with* Gadella, M.) Physical and mathematical aspects of Gamow states. (English summary) **2005g:81338**
Comman, Henri (*with* Fagnola, Franco) C^*-algebras of quadratures. (English summary) **2005i:46060**
D'Antoni, Claudio (*with* Morsella, Gerardo; Verch, Rainer) Scaling algebras for charged fields and short-distance analysis for localizable and topological charges. (English summary) **2005j:81102**
D'Ariano, Giacomo Mauro Extremal covariant quantum operations and positive operator valued measures. (English summary) **2005f:81023**
Đurđević, Mićo *see* **Chryssomalakos, Chryssomalis**, **2005d:81009**
Evans, David E. (*with* Pinto, Paulo R.) Subfactor realisation of modular invariants. (English summary) **2005k:46166**
Fagnola, Franco *see* **Comman, Henri**, **2005i:46060**
Fröhlich, Jürg (*with* Merkli, Marco; Sigal, I. M.) Ionization of atoms in a thermal field. (English summary) **2005f:82069**
Furuichi, Shigeru *see* **Kuriyama, Ken et al.**, **2005a:46105**
Gadella, M. *see* **Civitarese, O.**, **2005g:81338**
Georgescu, Vladimir (*with* Iftimovici, Andrei) C^*-algebras of quantum Hamiltonians. (English summary) **2005e:46133**
Grundling, Hendrik *see* **Carey, Alan L.**, **2005i:43001**
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Hamhalter, Jan States and structure of von Neumann algebras. (English summary) **2005i:46070**
— States and structure of von Neumann algebras. (English summary) **2005g:46116**
— *see also* **Bunce, Leslie J.**, **2005k:46161**
Honegger, Reinhard (*with* Rieckers, Alfred) Some continuous field quantizations, equivalent to the C^*-Weyl quantization. (English summary) **2005k:46186**
— *see also* **Binz, Ernst et al.**, **2005f:46104**
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Iftimovici, Andrei *see* **Georgescu, Vladimir**, **2005e:46133**
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Jauslin, H. R. (*with* Sapin, O.; Guérin, Stéphane; Wreszinski, Walter F.) Upper quantum Lyapunov exponent and parametric oscillators. (English summary) **2005m:81112**
Jordan, Thomas F. Affine maps of density matrices. (English summary) **2005m:81041**
Jørgensen, Palle E. T. (*with* Proskurin, Daniil P.; Samoĭlenko, Yuriĭ S.) On C^*-algebras generated by pairs of q-commuting isometries. (English summary) **2005m:46093**
Kijowski, Jerzy (*with* Rudolph, Gerd; Śliwa, C.) Charge superselection sectors for scalar QED on the lattice. (English summary) **2005g:81354**
Kitajima, Yuichiro A remark on the modal interpretation of algebraic quantum field theory. (English summary) **2005g:81182**
Kovács, Endre (*with* Molnár, Lajos) Preserving some numerical correspondences between Hilbert space effects. (English summary) **2005m:47077**
Kuna, Maciej (*with* Naudts, Jan) Covariance approach to the free photon field. (English summary) **2005d:81384**
Kuriyama, Ken (*with* Furuichi, Shigeru; Yanagi, Kenjiro) A note on sesquilinear forms and the generalized uncertainty relations in *-algebras. (English summary) **2005a:46105**
Labuschagne, Louis E. (*with* Majewski, Władysław A.) Quantum recurrences versus stability. (English summary) **2005e:81049**
Lledó, Fernando Massless relativistic wave equations and quantum field theory. (English summary) **2005i:81091**
Longo, Roberto (*with* Rehren, Karl-Henning) Local fields in boundary conformal QFT. (English summary) **2005h:81195**
— *see also* **Guido, Daniele**, **2005b:81115**
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de la Madrid, Rafael The rigged Hilbert space of the algebra of the one-dimensional rectangular barrier potential. (English summary) **2005i:81037**
Maistrenko, Tatyana (*with* Popovych, Stanislav V.; Samoĭlenko, Yuriĭ S.) On the algebra of unharmonic quantum oscillator. (English summary) **2005b:46123**
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Merkli, Marco *see* **Fröhlich, Jürg et al.**, **2005f:82069**
Mnatsakanova, M. N. (*with* Morchio, G.; Strocchi, F.; Vernov, Yu. S.) Representations of CCR algebras in Krein spaces of entire functions. (English summary) **2005d:81211**
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— *see also* **Mnatsakanova, M. N. et al.**, **2005d:81211**
Moretti, Valter (*with* Pinamonti, Nicola) Holography and $SL(2,\mathbb{R})$ symmetry in 2D Rindler space-time. (English summary) **2005k:81191**
— (*with* Pinamonti, Nicola) Virasoro algebra with central charge $c = 1$ on the horizon of a two-dimensional-Rindler space-time. (English summary) **2005k:81192**
Moriya, Hajime *see* **Araki, Huzihiro**, **2005a:81105** *and* **2005a:82013**
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— Particle weights and their disintegration. II. (English summary) **2005i:81088**
Proskurin, Daniil P. (*with* Îksanov, Oleksandr M.) The interpolation between the classical and monotone independence given by the twisted CCR. (English summary) **2005c:46100**
— *see also* **Jørgensen, Palle E. T. et al.**, **2005m:46093**
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Schmidt, Andreas U. Mathematics of the quantum Zeno effect. (English summary) **2005g:81042**
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Yue, Rui-Hong *see* **Hou, Bo-Yu et al.**, **2005b:81056**

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Anco, Stephen C. (*with* Pohjanpelto, Juha) Symmetries and currents of massless neutrino fields, electromagnetic and graviton fields. (English summary) **2005b:81063**
Armour, Rollin S., Jr. Spin-$\frac{1}{2}$ Maxwell fields. (English summary) **2005f:81098**
Bayro-Corrochano, Eduardo (*with* Lounesto, Pertti; Puska, Perttu P.) Covariances of the Dirac and Maxwell equations. **2005g:81145**
Białynicki-Birula, Iwo Canonical quantization and the relativistic wave equations. (English summary) **2005b:81064**
Bogoslovskiĭ, G. Yu. (*with* Goenner, Hubert F. M.) Generalized Lorentz symmetry and nonlinear spinor fields in a flat Finslerian space-time. (English summary) **2005d:81183**
— (*with* Goenner, Hubert F. M.) Concerning the generalized Lorentz symmetry and the generalization of the Dirac equation. (English summary) **2005d:81184**
Boudjedaa, T. *see* **Chetouani, L. et al.**, **2005g:81146**

Bureš, Jarolím Conformally invariant first order equations, their analysis and geometry. (English summary) **2005e:81100**
Chetouani, L. (*with* Merad, M.; Boudjedaa, T.; Lecheheb, A.) Solution of Duffin-Kemmer-Petiau equation for the step potential. (English summary) **2005g:81146**
Daviau, Claude Chiral Dirac equations. (English summary) **2005b:81065**
De Baere, W. *see* **Struyve, W. et al., 2005b:81066**
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Deser, S. (*with* Waldron, Andrew) Conformal invariance of partially massless higher spins. (English summary) **2005h:81165**
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Evans, Myron W. Derivation of the Lorentz boost from the Evans wave equation. (English summary) **2005f:81099**
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Gornik, B. (*with* Mankoc-Borstnik, N. S.) Linear equations of motion for massless particles of any spin in any even dimensional spaces. (English summary) **2005d:81185**
Gsponer, A. (*with* Hurni, J.-P.) Lanczos's equation as a way out of the spin 3/2 crisis? (English summary) **2005a:81095**
Hagen, C. R. Spin and statistics in Galilean covariant field theory. (English summary) **2005d:81186**
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Kirchbach, Mariana *see* **Napsuciale, Mauro, 2005g:81147**
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Lehnert, Ralf Dirac theory within the standard-model extension. (English summary) **2005e:81101**
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Lochak, Georges L'équation de Dirac sur le cône de lumière: électrons de Majorana et monopôles magnétiques. (English and French summaries) [The Dirac equation on the light cone: Majorana electrons and magnetic monopoles] **2005d:81188**
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Mankoc-Borstnik, N. S. *see* **Gornik, B., 2005d:81185**
Marchuk, N. G. Coordinate-free form of the Dirac equation for an electron. (Russian) **2005f:81100**
Merad, M. *see* **Chetouani, L. et al., 2005g:81146**
Napsuciale, Mauro (*with* Kirchbach, Mariana) Avoiding superluminal propagation of higher spin waves via projectors onto W^2 invariant subspaces. (English summary) **2005g:81147**
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Pruß-Hunzinger, S. (*with* Sorg, M.) Fermions in relativistic Schrödinger theory. (English summary) **2005d:81189**
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Šijački, Djordje $\overline{\mathrm{SL}}(4, \mathbf{R})$ embedding for a 3D world spinor equation. (English summary) **2005j:81079**
Socolovsky, Miguel The CPT group of the Dirac field. (English summary) **2005m:81145**
Sorg, M. *see* **Pruß-Hunzinger, S., 2005d:81189**
Struyve, W. (*with* De Baere, W.; De Neve, J.; De Weirdt, S.) On the uniqueness of paths for spin-0 and spin-1 quantum mechanics. (English summary) **2005b:81066**
Tutik, R. S. *see* **Kulikov, D. A. et al., 2005j:81078**
Waldron, Andrew *see* **Deser, S., 2005h:81165**
Wu, Puxun *see* **Yu, Hongwei, 2005e:81102**
Yaroshenko, A. P. *see* **Kulikov, D. A. et al., 2005j:81078**
Yu, Hongwei (*with* Wu, Puxun) Quantum inequalities for the free Rarita-Schwinger fields in flat spacetime. (English summary) **2005e:81102**
Yu, Jiang Dirac equations in $n+1$ dimensions. (English summary) **2005k:81121**

Items with secondary classifications in 81R20

Bzdak, A. (*with* Szwed, J.) The "square root" of the interacting Dirac equation. (English summary) **2005k:81304**
Francia, Dario (*with* Sagnotti, Augusto) On the geometry of higher-spin gauge fields. (English summary) **2005k:83097**
Islamov, K. A. (*with* Zakhirov, M. Z.) Spin structure of Riemannian manifold and its applications. (English, Russian and Uzbek summaries)
Khanna, F. C. *see* **dos Santos, Esdras Santana et al., 2005g:81187**
Kovalchuk, Vasyl Green function for Klein-Gordon-Dirac equation. (English summary) **2005k:81064**
Lledó, Fernando Massless relativistic wave equations and quantum field theory. (English summary) **2005i:81091**
Maccari, Attilio Coherent solutions for relativistic vectorial fields. (English summary) **2005j:35188**
de Montigny, M. *see* **dos Santos, Esdras Santana et al., 2005g:81187**
Mund, Jens (*with* Schroer, Bert; Yngvason, Jakob) String-localized quantum fields from Wigner representations. (English summary) **2005h:81197**
Sagnotti, Augusto *see* **Francia, Dario, 2005k:83097**
Santana, A. E. *see* **dos Santos, Esdras Santana et al., 2005g:81187**
dos Santos, Esdras Santana (*with* de Montigny, M.; Khanna, F. C.; Santana, A. E.) Galilean covariant Lagrangian models. (English summary) **2005g:81187**
Schroer, Bert *see* **Mund, Jens et al., 2005h:81197**
Somberg, Petr Higher monogenicity and residue theorem for Rarita-Schwinger operator. (English summary) **2005i:30083**
Sorg, M. *see* **Verschl, M., 2005c:81254**
Szwed, J. *see* **Bzdak, A., 2005k:81304**
Ulrych, S. The Poincaré mass operator in terms of a hyperbolic algebra. (English summary) **2005k:81123**
Varadarajan, V. S. ★ Supersymmetry for mathematicians: an introduction. **2005g:58011**
Varlamov, Vadim V. Fields on the Lorentz group: exact solutions for the fields $(1/2, 0) \oplus (0, 1/2)$ and $(1, 0) \oplus (0, 1)$. (English summary) **2005j:43007**
— Hyperspherical functions and harmonic analysis on the Lorentz group. (English summary) **2005j:43009**
Verschl, M. (*with* Sorg, M.) Relativistic Schrödinger theory and the Hartree-Fock approach. (English summary) **2005c:81254**
Yngvason, Jakob *see* **Mund, Jens et al., 2005h:81197**
Zakhirov, M. Z. *see* **Islamov, K. A.**
Zaleśny, Jaroslaw Derivation of the Białynicki-Birula photon wave function from three-component spinors. (English summary) **2005g:81149**

81R25 Spinor and twistor methods [see also 32L25]

Angles, Pierre (*with* Clerc, Rene-Louis) Opérateurs de création et d'annihilation et algèbres de Clifford. (English and French summaries) [Creation and annihilation operators and Clifford algebras] **2005d:81190**
de Azcárraga, José A. *see* **Bette, Andreas et al., 2005c:81089**
Bette, Andreas (*with* de Azcárraga, José A.; Lukierski, Jerzy; Miquel-Espanya, C.) Massive relativistic free fields with Lorentz spins and electric charges. (English summary) **2005c:81089**
Budinich, Paolo Clifford algebras, pure spinors and the physics of fermions. (English summary) **2005e:81103**
— Internal symmetry from division algebras in pure spinor geometry. (English summary) **2005g:81148**
Cantcheff, Marcelo Botta On the group structure of the Kalb-Ramond gauge symmetry and spinor representations. (English summary) **2005c:81090**
Cardoso, J. G. Explicit twistor expressions for complexified Maxwell fields. (English summary) **2005m:81146**
Clerc, Rene-Louis *see* **Angles, Pierre, 2005d:81190**
Dray, Tevian (*with* Manogue, Corinne A.) Using octonions to describe fundamental particles. (English summary) **2005b:81067**
Galkin, Aleksandr Vladimirovich Equation for doublets of particles with half-integer spin and parasupersymmetry. (English summary) **2005d:81191**
Ginocchio, Joseph N. Quantum mechanics on a sphere. (English summary) (*see* **2005b:00031**)
Kassandrov, Vladimir V. General solution of the complex 4-eikonal equation and the 'algebrodynamical' field theory. (English and Russian summaries)
Ławrynowicz, Julian (*with* Lounesto, Pertti; Suzuki, Osamu) An approach to the 5-, 9-, and 13-dimensional complex dynamics. III. Triality aspects. (Polish summary) **2005i:81065**
Lounesto, Pertti *see* **Ławrynowicz, Julian et al., 2005i:81065**
Lukierski, Jerzy *see* **Bette, Andreas et al., 2005c:81089**
Manogue, Corinne A. *see* **Dray, Tevian, 2005b:81067**
Manton, N. S. (*with* Schunck, A. F.) Delocalized spinors. (English summary) **2005e:81104**
Miquel-Espanya, C. *see* **Bette, Andreas et al., 2005c:81089**
Nieves, José F. (*with* Pal, Palash B.) Generalized Fierz identities. (English summary) **2005c:81091**
Pal, Palash B. *see* **Nieves, José F., 2005c:81091**
Rodrigues, Waldyr A., Jr. The relation between Maxwell, Dirac, and the Seiberg-Witten equations. (English summary) **2005f:81101**
Schmeikal, Bernd Transposition in Clifford algebra: SU(3) from reorientation invariance. (English summary) **2005e:81105**
Schunck, A. F. *see* **Manton, N. S., 2005e:81104**
Sinkovics, Annamaria (*with* Verlinde, Erik) A six-dimensional view on twistors. (English summary) **2005k:81122**
Suzuki, Osamu *see* **Ławrynowicz, Julian et al., 2005i:81065**
Ulrych, S. The Poincaré mass operator in terms of a hyperbolic algebra. (English summary) **2005k:81123**
Verlinde, Erik *see* **Sinkovics, Annamaria, 2005k:81122**
Zaleśny, Jaroslaw Derivation of the Bialynicki-Birula photon wave function from three-component spinors. (English summary) **2005g:81149**

Items with secondary classifications in 81R25

Abłamowicz, Rafał (*with* Baylis, William E.; Branson, Thomas; Lounesto, Pertti; Porteous, Ian; Ryan, John; Selig, J. M.; Sobczyk, Garret) ★ Lectures on Clifford (geometric) algebras and applications. **2005d:15001**
— (*with* Fauser, Bertfried) Clifford Graßmann Hopf algebras via the BIGEBRA package for Maple. (English summary)
Agnew, Alfonso F. Spacetime algebras and twistor theory. (English summary) **2005d:32037**
Agostini, Alessandra (*with* Amelino-Camelia, Giovanni; Arzano, Michele) Dirac spinors for doubly special relativity and κ-Minkowski noncommutative spacetime. (English summary) **2005c:83047**
Ahn, Changhyun $\mathcal{N} = 1$ conformal supergravity and twistor-string theory. (English summary) **2005j:83128**
Amelino-Camelia, Giovanni *see* **Agostini, Alessandra et al., 2005c:83047**
Anco, Stephen C. (*with* Pohjanpelto, Juha) Symmetries and currents of massless neutrino fields, electromagnetic and graviton fields. (English summary) **2005b:81063**
Arcaute, Elsa *see* **Lasenby, Anthony et al., 2005h:81178**
Arzano, Michele *see* **Agostini, Alessandra et al., 2005c:83047**
Bandos, Igor A. (*with* Pasti, Paolo; Sorokin, D. P.; Tonin, Mario) Superfield theories in tensorial superspaces and the dynamics of higher spin fields. (English summary) **2005j:81174**
Bars, Itzhak Twistor superstring in two-time physics. (English summary) **2005i:81120**
Baylis, William E. Applications of Clifford algebras in physics. (English summary) (*see* **2005d:15001**)
— *see also* **Abłamowicz, Rafałet al., 2005d:15001**
Berkovits, Nathan (*with* Motl, Luboš) Cubic twistorial string field theory. (English summary) **2005g:81226**
— Self-dual super-Yang-Mills as a string theory in (x, θ) space. (English summary) **2005g:81299**

— (*with* Witten, Edward) Conformal supergravity in twistor-string theory. (English summary) **2005k:83148**
— Alternative string theory in twistor space for $N = 4$ super-Yang-Mills theory. (English summary) **2005h:81353**
Białynicki-Birula, Iwo Canonical quantization and the relativistic wave equations. (English summary) **2005b:81064**
von Borzeszkowski, Horst-Heino *see* **Herrmann, Heiko et al., 2005d:83088**
Branson, Thomas *see* **Abłamowicz, Rafałet al., 2005d:15001**
Britto-Pacumio, Ruth A. (*with* Cachazo, Freddy; Feng, Bo[1]) Coplanarity in twistor space of $\mathcal{N} = 4$ next-to-MHV one-loop amplitude coefficients. (English summary) **2005i:81106**
Bukhbinder, I. L. (*with* Krykhtin, V. A.; Pashnev, A.) BRST approach to Lagrangian construction for fermionic massless higher spin fields. (English summary) **2005k:81334**
Cachazo, Freddy (*with* Svrček, Peter; Witten, Edward) MHV vertices and tree amplitudes in gauge theory. (English summary) **2005k:81185**
— (*with* Svrček, Peter; Witten, Edward) Gauge theory amplitudes in twistor space and holomorphic anomaly. (English summary) **2005k:81184**
— *see also* **Britto-Pacumio, Ruth A. et al., 2005i:81106**
Castro, Carlos[1] The charge-mass-spin relation of Clifford polyparticles, Kerr-Newman black holes and the fine structure constant. (English summary) **2005i:83082**
Chang, Jen-Hsu (*with* Tu, Ming-Hsien) Topological field theory approach to the generalized Benney hierarchy. (English summary) **2005m:81286**
Daviau, Claude Chiral Dirac equations. (English summary) **2005b:81065**
Dennis, M. R. Canonical representation of spherical functions: Sylvester's theorem, Maxwell's multipoles and Majorana's sphere. (English summary) **2005f:43011**
Diemer, Tammo ★ Conformal geometry, representation theory and linear fields. **2005h:53018**
Doran, Chris *see* **Lasenby, Anthony et al., 2005h:81178**
Fauser, Bertfried *see* **Abłamowicz, Rafał**
Feng, Bo[1] *see* **Britto-Pacumio, Ruth A. et al., 2005i:81106**
Georgiou, George (*with* Khoze, Valentin V.) Tree amplitudes in gauge theory as scalar MHV diagrams. (English summary) **2005g:81208**
— (*with* Glover, E. W. Nigel; Khoze, Valentin V.) Non-MHV tree amplitudes in gauge theory. (English summary) **2005h:81236**
Giombi, Simone (*with* Ricci, Riccardo[2]; Robles-Llana, Daniel; Trancanelli, Diego) A note on twistor gravity amplitudes. (English summary) **2005g:81303**
Glover, E. W. Nigel *see* **Georgiou, George et al., 2005h:81236**
Grassi, Pietro Antonio (*with* Policastro, G.; van Nieuwenhuizen, Peter) An introduction to the covariant quantization of superstrings. (English summary) **2005c:81163**
Herrmann, Heiko (*with* Muschik, W.; Rückner, G.; von Borzeszkowski, Horst-Heino) Spin axioms in different geometries of relativistic continuum physics. (English summary) **2005d:83088**
Kanamori, Issaku (*with* Kawamoto, Noboru) Dirac-Kähler fermion from Clifford product with noncommutative differential form on a lattice. (English summary) **2005f:81118**
Kawamoto, Noboru *see* **Kanamori, Issaku, 2005f:81118**
Khoze, Valentin V. *see* **Georgiou, George et al., 2005g:81208** *and* **2005h:81236**
Krykhtin, V. A. *see* **Bukhbinder, I. L. et al., 2005k:81334**
Lasenby, Anthony (*with* Doran, Chris; Arcaute, Elsa) Applications of geometric algebra in electromagnetism, quantum theory and gravity. (English summary) **2005h:81178**
Lechtenfeld, Olaf (*with* Popov, Alexander D.) Noncommutative monopoles and Riemann-Hilbert problems. (English summary) **2005g:81158**
— (*with* Popov, Alexander D.) Supertwistors and cubic string field theory for open $N = 2$ strings. (English summary) **2005e:81184**
Lévay, Péter Geometry of three-qubit entanglement. (English summary) **2005k:81036**
Lounesto, Pertti Introduction to Clifford algebras. (English summary) (*see* **2005d:15001**)
— *see also* **Abłamowicz, Rafałet al., 2005d:15001**
Motl, Luboš *see* **Berkovits, Nathan, 2005g:81226**
Movshev, M. (*with* Schwarz, Albert S.) On maximally supersymmetric Yang-Mills theories. (English summary) **2005i:81167**
Muschik, W. *see* **Herrmann, Heiko et al., 2005d:83088**
van Nieuwenhuizen, Peter *see* **Grassi, Pietro Antonio et al., 2005c:81163**
Pashnev, A. *see* **Bukhbinder, I. L. et al., 2005k:81334**
Pasti, Paolo *see* **Bandos, Igor A. et al., 2005j:81174**
Pohjanpelto, Juha *see* **Anco, Stephen C., 2005b:81063**
Policastro, G. *see* **Grassi, Pietro Antonio et al., 2005c:81163**
Polyakov, Dimitri GL(1) charged states in twistor string theory. (English summary) **2005i:81141**
Popov, Alexander D. (*with* Wolf, Martin) Topological B-model on weighted projective spaces and self-dual models in four dimensions. (English summary) **2005m:81290**
— *see also* **Lechtenfeld, Olaf, 2005e:81184** *and* **2005g:81158**
Porteous, Ian Mathematical structure of Clifford algebras. (English summary) (*see* **2005d:15001**)
— *see also* **Abłamowicz, Rafałet al., 2005d:15001**
Ricci, Riccardo[2] *see* **Giombi, Simone et al., 2005g:81303**
Robles-Llana, Daniel *see* **Giombi, Simone et al., 2005g:81303**
Roiban, Radu (*with* Spradlin, Marcus; Volovich, Anastasia) A googly amplitude from the B-model in twistor space. (English summary) **2005g:81259**
— (*with* Volovich, Anastasia) All conjugate-maximal-helicity-violating amplitudes from topological open string theory in twistor space. (English summary) **2005i:81156**
Rückner, G. *see* **Herrmann, Heiko et al., 2005d:83088**
Ryan, John *see* **Abłamowicz, Rafałet al., 2005d:15001**
Sämann, Christian The topological B-model on fattened complex manifolds and subsectors of $\mathcal{N} = 4$ self-dual Yang-Mills theory. (English summary) **2005m:81292**
Schwarz, Albert S. *see* **Movshev, M., 2005i:81167**
Selig, J. M. *see* **Abłamowicz, Rafałet al., 2005d:15001**
Sobczyk, Garret *see* **Abłamowicz, Rafałet al., 2005d:15001**
Sorokin, D. P. *see* **Bandos, Igor A. et al., 2005j:81174**
Spradlin, Marcus *see* **Roiban, Radu et al., 2005g:81259**
Svrček, Peter *see* **Cachazo, Freddy et al., 2005k:81184** *and* **2005k:81185**
Taniguchi, Tadashi Super twistor space and $N = 2$ supersymmetric instantons. (English summary) **2005g:53085**
Tonin, Mario *see* **Bandos, Igor A. et al., 2005j:81174**
Trancanelli, Diego *see* **Giombi, Simone et al., 2005g:81303**
Tu, Ming-Hsien *see* **Chang, Jen-Hsu, 2005m:81286**
Volovich, Anastasia *see* **Roiban, Radu et al., 2005g:81259** *and* **2005i:81156**
Wetterich, Christof Spontaneous symmetry breaking origin for the difference between time and space. (English summary) **2005h:81032**
Witten, Edward *see* **Cachazo, Freddy et al., 2005k:81184; 2005k:81185** *and* **Berkovits, Nathan, 2005k:83148**
Wolf, Martin *see* **Popov, Alexander D., 2005m:81290**
Wu, Jun-Bao (*with* Zhu, Chuan-Jie) MHV vertices and fermionic scattering amplitudes in gauge theory with quarks and gluinos. (English summary) **2005m:81214**
Zhu, Chuan-Jie The googly amplitudes in gauge theory. (English summary) **2005g:81209**
— *see also* **Wu, Jun-Bao, 2005m:81214**

Items listed otherwise than by author

Lectures on Clifford (geometric) algebras and applications *see* **Abłamowicz, Rafałet al., 2005d:15001**

81R30 Coherent states [see also 22E45]; squeezed states [see also 81V80]

de Aguiar, M. A. M. *see* **Parisio, Fernando, 2005c:81095**
Aleixo, A. N. F. (*with* Balantekin, A. B.) An algebraic construction of generalized coherent states for shape-invariant potentials. (English summary) **2005g:81150**
Ali, Syed Twareque (*with* Roknizadeh, R.; Tavassoly, M. K.) Representations of coherent states in non-orthogonal bases. (English summary) **2005d:81192**
— (*with* Engliš, Miroslav; Gazeau, Jean-Pierre) Vector coherent states from Plancherel's theorem, Clifford algebras and matrix domains. (English summary) **2005m:81147**
Alvarez-Moraga, Nibaldo (*with* Hussin, Véronique) sh(2/2) superalgebra eigenstates and generalized supercoherent and supersqueezed states. (English summary) **2005f:81102**
— Coherent and squeezed states of quantum Heisenberg algebras. (English summary) **2005m:81148**
Anastopoulos, Charis Generalized coherent states for spinning relativistic particles. (English summary) **2005f:81103**
Balantekin, A. B. *see* **Aleixo, A. N. F., 2005g:81150**
Berceanu, Ştefan (*with* Gheorghe, Cezar A.) Linear Hamiltonians on homogeneous Kähler manifolds of coherent states. (English summary) **2005d:81193**
Błasiak, Paweł (*with* Penson, Karol A.; Solomon, Allan I.) Combinatorial coherent states via normal ordering of bosons. (English summary) **2005c:81092**
Borzov, V. V. (*with* Damaskinskiĭ, E. V.) Generalized coherent states for the q-oscillator associated with discrete Hermite q-polynomials. (Russian. English and Russian summaries) **2005h:81167**
— (*with* Damaskinskiĭ, E. V.) Generalized coherent states for oscillators connected with Meixner and Meixner-Pollaczek polynomials. (Russian. English and Russian summaries) **2005m:81149**
Chen, Jun-Hua *see* **Fan, Hong Yi[1], 2005b:81069** *and* **2005d:81194**
Chenaghlou, A. (*with* Fakhri, H.) Barut-Girardello coherent states constructed by $Y_{mm}(\theta, \varphi)$ and $Y_{m+1m}(\theta, \varphi)$ for a free particle on the sphere. (English summary) **2005g:81151**
Colavita, E. (*with* Hacyan, S.) Coherent states with elliptical polarization. (English summary) **2005j:81080**
Curado, Evaldo M. F. *see* **Hassouni, Y. et al., 2005m:81154**
Daboul, Jamil (*with* Mizrahi, Salomon S.) O(N) symmetries, sum rules for generalized Hermite polynomials and squeezed states. (English summary) **2005m:81150**
Damaskinskiĭ, E. V. *see* **Borzov, V. V., 2005h:81167** *and* **2005m:81149**
Daoud, M. Analytic representations based on su(3) coherent states and Robertson intelligent states. (English summary) **2005e:81106**
— Generalized intelligent states of the su(N) algebra. (English summary) **2005m:81151**
Darwish, M. *see* **Obada, Abdel-Shafy F. et al., 2005m:81155**
El Baz, Morad (*with* Hassouni, Y.) On the construction of generalized Grassmann representatives of state vectors. (English summary) **2005b:81068**
Engliš, Miroslav *see* **Ali, Syed Twareque et al., 2005m:81147**
Fakhri, H. su(1, 1)-Barut-Girardello coherent states for Landau levels. (English summary) **2005a:81097**
— *see also* **Chenaghlou, A., 2005g:81151**
Fan, Hong Yi[1] (*with* Chen, Jun-Hua) Symplectic group representation of the two-mode squeezing operator in the coherent state basis. (English summary) **2005b:81069**
— (*with* Chen, Jun-Hua) Generalized Bargmann representation of spin coherent state. (English summary) **2005d:81194**
— (*with* Fu, Liang; Wünsche, Alfred) Quantum mechanical version of z-transform related to eigenkets of boson creation operator. (English summary) **2005m:81152**
— (*with* Lu, Hai-Liang) New two-mode coherent-entangled state and its application. (English summary) **2005m:81153**
— (*with* Li, Chao[3]; Jiang, Zhong-Hua) Spin coherent states as energy eigenstates of two coupled oscillators. (English summary) **2005d:81195**
— (*with* Fu, Liang) Normally ordered expansion of 3-dimensional bipartite Coulomb potential operator. (English summary) **2005d:81196**
Feng, Jian[1] *see* **Wang, Ji-Suo et al., 2005f:81108; 2005h:81169** *and* **2005h:81170**
Fu, Liang *see* **Fan, Hong Yi[1] et al., 2005d:81196** *and* **2005m:81152**
Garidi, T. *see* **Gazeau, Jean-Pierre et al., 2005d:81197**
Gazeau, Jean-Pierre (*with* Garidi, T.; Huguet, E.; Lachièze-Rey, M.; Renaud, Jacques[1]) Examples of Berezin-Toeplitz quantization: finite sets and unit interval. (English summary) **2005d:81197**
— *see also* **Ali, Syed Twareque et al., 2005m:81147**
Gheorghe, Cezar A. *see* **Berceanu, Ştefan, 2005d:81193**
Hacyan, S. *see* **Colavita, E., 2005j:81080**
Hall, Brian C. (*with* Mitchell, Jeffrey J.) Erratum: "Coherent states on spheres" [J. Math. Phys. **43** (2002), no. 3, 1211–1236; MR1885002 (2002m:81094)].

Hassouni, Y. (*with* Curado, Evaldo M. F.; Rego-Monteiro, M. A.) Construction of coherent states for physical algebraic systems. (English summary) **2005m:81154**
— *see also* **El Baz, Morad, 2005b:81068**
Hohouéto, A. L. *see* **Thirulogasanthar, K., 2005f:81107**
Honnouvo, G. *see* **Thirulogasanthar, K. et al., 2005e:81107** *and* **2005g:81153**
Huguet, E. *see* **Gazeau, Jean-Pierre et al., 2005d:81197**
Hussin, Véronique *see* **Alvarez-Moraga, Nibaldo, 2005f:81102**
Inomata, Akira *see* **Thaik, Myo, 2005k:81126**
Jiang, Zhong-Hua *see* **Fan, Hong Yi[1] et al., 2005d:81195**
Johansen, Lars M. Nonclassical properties of coherent states. (English summary) **2005c:81093**
Kaiser, Gerald Physical wavelets and their sources: real physics in complex spacetime. (English summary) **2005a:81098**
von Keviczky, Attila B. *see* **Thirulogasanthar, K. et al., 2005m:81157**
Kim, Jaewan[2] *see* **Yi, Hyo Seok et al., 2005m:81158**
Kowalski, Krzysztof (*with* Rembieliński, Jakub) q-deformed coherent states on a circle. (English summary)
— (*with* Rembieliński, Jakub) Coherent states for the q-deformed quantum mechanics on a circle. (English summary) **2005j:81081**
Krzyżak, A. *see* **Thirulogasanthar, K. et al., 2005e:81107**
Kumar, Pankaj *see* **Prakash, Hari**
Kuriyama, Atsushi (*with* da Providência, Constança; da Providência, João; Tsue, Yasuhiko; Yamamura, Masatoshi) A possible form of the orthogonal set in six kinds of boson operators—in relation to the su(2)- and its relevant algebras. (English summary) **2005f:81104**
— (*with* da Providência, Constança; da Providência, João; Tsue, Yasuhiko; Yamamura, Masatoshi) Note on the orthogonal set in six kinds of boson operators—in relation to the su(1, 1)- and its relevant algebras. (English summary) **2005f:81105**
— (*with* Yamamura, Masatoshi; da Providência, Constança; da Providência, João; Tsue, Yasuhiko) Description of anharmonic effects with generalized coherent states. (English summary) **2005a:81099**
Lachièze-Rey, M. *see* **Gazeau, Jean-Pierre et al., 2005d:81197**
Li, Chao[3] *see* **Fan, Hong Yi[1] et al., 2005d:81195**
Liu, Tang-Kun *see* **Wang, Ji-Suo et al., 2005f:81108**; **2005h:81169** *and* **2005h:81170**
Lu, Hai-Liang *see* **Fan, Hong Yi[1], 2005m:81153**
Mitchell, Jeffrey J. *see* **Hall, Brian C.**
Mizrahi, Salomon S. *see* **Daboul, Jamil, 2005m:81150**
Mouayn, Zouhaïr Characterization of two-dimensional Euclidean Landau states by coherent state transforms. (English summary) **2005c:81094**
— Characterization of multidimensional Euclidean Landau states using coherent state transformations. (Russian. Russian summary) **2005h:81168**
— Coherent states attached to Landau levels on the Riemann sphere. (English summary)
Naderi, M. H. (*with* Roknizadeh, R.; Soltanolkotabi, M.) On the coherent states associated with deformed Bogoliubov (p, q)-transformations without first finite Fock states. (English summary) **2005k:81124**
Nguyen Ba An *see* **Yi, Hyo Seok et al., 2005m:81158**
Obada, Abdel-Shafy F. (*with* Darwish, M.; Salah, H. H.) Some non-classical properties of a class of new nonlinear coherent states. (English summary) **2005m:81155**
Parisio, Fernando (*with* de Aguiar, M. A. M.) Semiclassical coherent-state propagator via path integrals with intermediate states of variable width. (English summary) **2005c:81095**
Penson, Karol A. *see* **Błasiak, Paweł et al., 2005c:81092**
Pletyukhov, Mikhail On the extra phase correction to the semiclassical spin coherent-state propagator. (English summary) **2005b:81070**
Prakash, Hari (*with* Kumar, Pankaj) Maximum simultaneous squeezing and antibunching in superposed coherent states. (English summary)
da Providência, Constança *see* **Kuriyama, Atsushi et al., 2005a:81099**; **2005f:81104** *and* **2005f:81105**
da Providência, João *see* **Kuriyama, Atsushi et al., 2005a:81099**; **2005f:81104** *and* **2005f:81105**
Rego-Monteiro, M. A. *see* **Hassouni, Y. et al., 2005m:81154**
Rembieliński, Jakub *see* **Kowalski, Krzysztof, 2005j:81081**
Renaud, Jacques[1] *see* **Gazeau, Jean-Pierre et al., 2005d:81197**
Roknizadeh, R. (*with* Tavassoly, M. K.) Representations of coherent and squeezed states in a f-deformed Fock space. (English summary) **2005c:81096**
— (*with* Tavassoly, M. K.) The construction of some important classes of generalized coherent states: the nonlinear coherent states method. (English summary) **2005f:81106**
— (*with* Tavassoly, M. K.) Construction of the dual family of Gazeau-Klauder coherent states via temporally stable nonlinear coherent states. (English summary) **2005m:81156**
— *see also* **Ali, Syed Twareque et al., 2005d:81192** *and* **Naderi, M. H. et al., 2005k:81124**
Rowe, David J. Coherent states, induced representations, geometric quantization, and their vector coherent state extensions. (English summary) **2005a:81100**
Saad, Nasser *see* **Thirulogasanthar, K. et al., 2005c:81097** *and* **2005m:81157**
Salah, H. H. *see* **Obada, Abdel-Shafy F. et al., 2005m:81155**
Samsonov, Boris F. Darboux transformations of coherent states of the time-dependent singular oscillator. (English summary) **2005g:81152**
Sohn, Richard (*with* Swanson, Mark S.) Exact coherent state transition elements for the squeezed harmonic oscillator. (English summary) **2005k:81125**
Solomon, Allan I. *see* **Błasiak, Paweł et al., 2005c:81092**
Soltanolkotabi, M. *see* **Naderi, M. H. et al., 2005k:81124**
Sun, Jin-Zuo *see* **Wang, Ji-Suo et al., 2005f:81108**; **2005h:81169** *and* **2005h:81170**
Swanson, Mark S. *see* **Sohn, Richard, 2005k:81125**
Tavassoly, M. K. *see* **Roknizadeh, R., 2005c:81096**; **2005f:81106**; **2005m:81156** *and* **Ali, Syed Twareque et al., 2005d:81192**
Thaik, Myo (*with* Inomata, Akira) Klauder's coherent states for the radial Coulomb problem in a uniformly curved space and their flat-space limits. (English summary) **2005k:81126**
Thirulogasanthar, K. (*with* Honnouvo, G.; Krzyżak, A.) Multi-matrix vector coherent states. (English summary) **2005e:81107**
— (*with* Honnouvo, G.) Coherent states with complex functions. (English summary) **2005g:81153**
— (*with* Saad, Nasser; von Keviczky, Attila B.) Temporally stable coherent states for a free magnetic Schrödinger operator. (English summary) **2005m:81157**
— (*with* Saad, Nasser) Coherent states associated with the wavefunctions and the spectrum of the isotonic oscillator. (English summary) **2005c:81097**
— (*with* Hohouéto, A. L.) Vector coherent states with matrix moment problems. (English summary) **2005f:81107**
Tsue, Yasuhiko *see* **Kuriyama, Atsushi et al., 2005a:81099**; **2005f:81104** *and* **2005f:81105**
Vourdas, A. *see* **Zhang, Sheng[3], 2005f:81110** *and* **Errata: "Analytic representation of finite quantum systems"**
Wang, Ji-Suo (*with* Liu, Tang-Kun; Feng, Jian[1]; Sun, Jin-Zuo; Zhan, Ming-Sheng) A new kind of k-quantum nonlinear coherent states: their generation and physical meaning. (English summary) **2005f:81108**
— (*with* Liu, Tang-Kun; Feng, Jian[1]; Sun, Jin-Zuo) A class of even and odd nonlinear coherent states and their properties. (English summary)
— (*with* Liu, Tang-Kun; Feng, Jian[1]; Sun, Jin-Zuo) A class of k-quantum nonlinear coherent states and some of their properties. (English summary) **2005h:81169**
— (*with* Liu, Tang-Kun; Feng, Jian[1]; Sun, Jin-Zuo) A class of even and odd nonlinear coherent states and their properties. (English summary) **2005h:81170**
Weigert, Stefan Expanding Hermitian operators in a basis of projectors on coherent spin states. (English summary) **2005f:81109**
Wu, Ling-An *see* **Wu, Wei, 2005a:81101**
Wu, Wei (*with* Wu, Ling-An) Two new types of quantum states generated via higher powers of Bogoliubov's transformation. (English summary) **2005a:81101**
Wünsche, Alfred *see* **Fan, Hong Yi[1] et al., 2005m:81152**
Yamamura, Masatoshi *see* **Kuriyama, Atsushi et al., 2005a:81099**; **2005f:81104** *and* **2005f:81105**
Yi, Hyo Seok (*with* Nguyen Ba An; Kim, Jaewan[2]) K-dimensional trio coherent states. (English summary) **2005m:81158**
Yin, Qi-Jun (*with* Zhang, Jian-Zu) Coherent states of the deformed Heisenberg-Weyl algebra in non-commutative space. (English summary) **2005k:81127**
Zhan, Ming-Sheng *see* **Wang, Ji-Suo et al., 2005f:81108**
Zhang, Jian-Zu *see* **Yin, Qi-Jun, 2005k:81127**
Zhang, Sheng[3] (*with* Vourdas, A.) Analytic representation of finite quantum systems. (English summary) **2005f:81110**
— *see also* **Errata: "Analytic representation of finite quantum systems"**

Items listed otherwise than by author

Errata:
"Analytic representation of finite quantum systems" Corrigendum: "Analytic representation of finite quantum systems" [J. Phys. A **37** (2004), no. 34, 8349–8363; MR2092802 (2005f:81110)] by S. Zhang and A. Vourdas.

Items with secondary classifications in 81R30

Abd Al-Kader, G. M. (*with* Obada, Abdel-Shafy F.) Four-component superposition of squeezed coherent states. (English summary)
Abdalla, M. Sebawe (*with* Obada, Abdel-Shafy F.) Nonclassical properties for some intermediate states. (English summary) **2005a:81120**
Abdel-Khalek, S. *see* **Obada, Abdel-Shafy F., 2005c:81258**
Anandan, Jeeva S. *see* **Field, Timothy R., 2005e:81075**
Anastopoulos, Charis (*with* Savvidou, Ntina) The role of phase space geometry in Heisenberg's uncertainty relation. (English summary) **2005a:81121**
Andrade, Roberto F. S. *see* **Borges, Ernesto P. et al., 2005d:94024**
Barnum, Howard (*with* Knill, Emanuel; Ortiz, Gerardo; Viola, Lorenza) Generalizations of entanglement based on coherent states and convex sets. (English summary) **2005b:81010**
Błasiak, Paweł (*with* Penson, Karol A.; Solomon, Allan I.) The boson normal ordering problem and generalized Bell numbers. (English summary) **2005e:81112**
— (*with* Horzela, Andrzej; Kapuścik, Edward) Alternative Hamiltonians and Wigner quantization. (English summary) **2005g:81171**
Blasone, Massimo (*with* Jizba, Petr) Bateman's dual system revisited: quantization, geometric phase and relation with the ground-state energy of the linear harmonic oscillator. (English summary) **2005h:81143**
Borges, Ernesto P. (*with* Tsallis, Constantino; Miranda, José G. V.; Andrade, Roberto F. S.) Mother wavelet functions generalized through q-exponentials. (English summary) **2005d:94024**
Braunstein, Samuel L. *see* **Nemoto, Kae, 2005i:81195**
Brodlie, Alastair Classical and quantum coherent states. (English summary) **2005c:81098**
Castaños, Octavio (*with* López-Peña, Ramón; Man'ko, Margarita A.; Man'ko, Vladimir I.) Squeeze tomography of quantum states. (English summary) **2005g:81365**
Chakrabarti, Ranabir (*with* Vasan, S. S.) On completeness of Barut-Girardello coherent states of $su_q(1, 1)$ algebra. (English summary) **2005f:81113**
(Chen, Yung-Fu) *see* **Makowski, Adam J.**
Colin de Verdière, Yves The level crossing problem in semi-classical analysis. I. The symmetric case. (English and French summaries) **2005f:35349**
Fan, Hong Yi[1] Entangled states, squeezed states gained via the route of developing Dirac's symbolic method and their applications. (English summary) **2005f:81026**
— (*with* Li, Chao[3]) A group property for the coherent state representation of fermionic squeezing operators. (English summary)
Fernandes, M. C. B. *see* **Oliveira, M. D. et al., 2005m:81176**
Field, Timothy R. (*with* Anandan, Jeeva S.) Geometric phases and coherent states. (English summary) **2005e:81075**
Florentino, Carlos A. (*with* Mourão, José M.; Nunes, João P.) Coherent state transforms and vector bundles on elliptic curves. (English summary) **2005d:14052**
Fonseca Romero, K. M. (*with* Nemes, M. C.; Peixoto de Faria, J. G.; de Toledo Piza, A. F. R.) Sensitivity to initial conditions in quantum dynamics: an analytical semiclassical expansion. (English summary) **2005j:81060**
Gangopadhyay, Gautam *see* **Srivastava, Hari M., 2005m:33026**
Gazeau, Jean-Pierre (*with* Piechocki, Włodzimierz) Coherent state quantization of a particle in de Sitter space. (English summary) **2005m:81219**

Giovannetti, Vittorio (*with* Lloyd, Seth; Maccone, Lorenzo; Shapiro, Jeffrey H.; Yen, Brent J.) Minimum Rényi and Wehrl entropies at the output of bosonic channels. (English summary) **2005e:94042**

Hall, Brian C. (*with* Lewkeeratiyutkul, Wicharn) Holomorphic Sobolev spaces and the generalized Segal-Bargmann transform. (English summary) **2005h:22011**

Horzela, Andrzej *see* **Błasiak, Paweł et al., 2005g:81171**

(Huang, Kai Feng) *see* **Makowski, Adam J.**

Jizba, Petr *see* **Blasone, Massimo, 2005h:81143**

Kaiblinger, Norbert Approximation of the Fourier transform and the dual Gabor window. (English summary) **2005m:42009**

Kapuścik, Edward *see* **Błasiak, Paweł et al., 2005g:81171**

Kastrup, H. A. Quantization of the optical phase space $\mathcal{S}^2 = \{\varphi \bmod 2\pi, I > 0\}$ in terms of the group $SO^{\uparrow}(1,2)$. (English summary) **2005b:81082**

Khanna, F. C. *see* **Oliveira, M. D. et al., 2005m:81176**

Kisil, Vladimir V. Meeting Descartes and Klein somewhere in a noncommutative space. (English summary) **2005b:43015**

— p-mechanics as a physical theory: an introduction. (English summary) **2005c:81078**

Knill, Emanuel *see* **Barnum, Howard et al., 2005b:81010**

Kwaśniewski, Andrzej K. q-Poisson, q-Dobinski, q-Rota and q-coherent states—a second fortieth anniversary memoir. (English summary)

Lewkeeratiyutkul, Wicharn *see* **Hall, Brian C., 2005h:22011**

Li, Chao[3] *see* **Fan, Hong Yi[1]**

Lloyd, Seth *see* **Giovannetti, Vittorio et al., 2005e:94042**

López-Peña, Ramón *see* **Castaños, Octavio et al., 2005g:81365**

Lubo, Musongela Quantum mechanics on non commutative spaces and squeezed states: a functional approach. (English summary) **2005m:81167**

— The fuzzy sphere: from the uncertainty relation to the stereographic projection. (English summary) **2005f:81120**

Maccone, Lorenzo *see* **Giovannetti, Vittorio et al., 2005e:94042**

Makowski, Adam J. Comment on: "Vortex structure of quantum eigenstates and classical periodic orbits in two-dimensional harmonic oscillators" [J. Phys. A **36** (2003), no. 28, 7751–7760; MR2004945] by Y. F. Chen and K. F. Huang. (English summary)

Man'ko, Margarita A. *see* **Castaños, Octavio et al., 2005g:81365**

Man'ko, Vladimir I. *see* **Castaños, Octavio et al., 2005g:81365**

Mann, Robert B. *see* **Ord, G. N., 2005c:81034**

Mieck, B. Transfer-matrices of coherent state path integrals with the h_4- and su(2)-algebra for many-body systems with contact interactions. (English summary) **2005f:81303**

Miranda, José G. V. *see* **Borges, Ernesto P. et al., 2005d:94024**

Mourão, José M. *see* **Florentino, Carlos A. et al., 2005d:14052**

Nemes, M. C. *see* **Fonseca Romero, K. M. et al., 2005j:81060**

Nemoto, Kae (*with* Braunstein, Samuel L.) Quantum coherence: myth or fact? (English summary) **2005i:81195**

Nunes, João P. *see* **Florentino, Carlos A. et al., 2005d:14052**

Obada, Abdel-Shafy F. (*with* Abdel-Khalek, S.) New features of the atomic Wehrl entropy and its density in multi-quanta two-level system. (English summary) **2005c:81258**

— *see also* **Abdalla, M. Sebawe, 2005a:81120** *and* **Abd Al-Kader, G. M.**

Oliveira, M. D. (*with* Fernandes, M. C. B.; Khanna, F. C.; Santana, A. E.; Vianna, J. D. M.) Symplectic quantum mechanics. (English summary) **2005m:81176**

Ord, G. N. (*with* Mann, Robert B.) Entwined pairs and Schrödinger's equation. (English summary) **2005c:81034**

Ortiz, Gerardo *see* **Barnum, Howard et al., 2005b:81010**

Parthasarathy, Ragavachariar (*with* Sridhar, Raghavendra) Diagonal representation of density matrix using q-coherent states. (English summary) **2005f:82012**

Paz, Juan Pablo (*with* Roncaglia, Augusto José; Saraceno, Marcos) Quantum algorithms for phase-space tomography. (English summary) **2005a:81047**

Peixoto de Faria, J. G. *see* **Fonseca Romero, K. M. et al., 2005j:81060**

Penson, Karol A. *see* **Błasiak, Paweł et al., 2005e:81112**

Piechocki, Włodzimierz *see* **Gazeau, Jean-Pierre, 2005m:81219**

Popov, Dušan Gazeau-Klauder quasi-coherent states for the Morse oscillator. (English summary) **2005b:81086**

Powell, Alexander M. Orthonormalized coherent states. (English summary) **2005g:42070**

Rieffel, Marc A. Matrix algebras converge to the sphere for quantum Gromov-Hausdorff distance. (English summary) (*see* **2005g:46131**)

Robert, Didier Remarks on time-dependent Schrödinger equations, bound states, and coherent states. (English summary) (*see* **2005c:81007**)

Roncaglia, Augusto José *see* **Paz, Juan Pablo et al., 2005a:81047**

Rubinstein, Boris *see* **Zverev, Vladimir, 2005b:81231**

Ryzhov, Anton V. (*with* Tseytlin, A. A.) Towards the exact dilatation operator of $\mathcal{N} = 4$ super-Yang-Mills theory. (English summary) **2005h:81382**

Santana, A. E. *see* **Oliveira, M. D. et al., 2005m:81176**

Saraceno, Marcos *see* **Paz, Juan Pablo et al., 2005a:81047**

Savvidou, Ntina *see* **Anastopoulos, Charis, 2005a:81121**

Savvidy, G. K. Tensionless strings: physical Fock space and higher spin fields. (English summary) **2005d:81302**

Shapiro, Jeffrey H. *see* **Giovannetti, Vittorio et al., 2005e:94042**

Solomon, Allan I. *see* **Błasiak, Paweł et al., 2005e:81112**

Sridhar, Raghavendra *see* **Parthasarathy, Ragavachariar, 2005f:82012**

Srivastava, Hari M. (*with* Gangopadhyay, Gautam) The absorption bandshape function of a molecule from a thermocoherent state and some associated multilinear generating-function relationships for Laguerre polynomials. (English summary) **2005m:33026**

de Toledo Piza, A. F. R. *see* **Fonseca Romero, K. M. et al., 2005j:81060**

Trifonov, Dimit'r Position uncertainty measures on the sphere. (English summary) (*see* **2005b:00027**)

Tsallis, Constantino *see* **Borges, Ernesto P. et al., 2005d:94024**

Tseytlin, A. A. *see* **Ryzhov, Anton V., 2005h:81382**

Vasan, S. S. *see* **Chakrabarti, Ranabir, 2005f:81113**

Vianna, J. D. M. *see* **Oliveira, M. D. et al., 2005m:81176**

Viola, Lorenza *see* **Barnum, Howard et al., 2005b:81010**

Vitiello, Giuseppe Classical chaotic trajectories in quantum field theory. (English summary) **2005b:81219**

Yen, Brent J. *see* **Giovannetti, Vittorio et al., 2005e:94042**

Zhang, Yao-Zhong Coherent state construction of representations of osp(2|2) and primary fields of osp(2|2) conformal field theory. (English summary) **2005c:81081**

Zverev, Vladimir (*with* Rubinstein, Boris) Dynamical symmetries and well-localized hydrogenic wave packets. (English summary) **2005b:81231**

81R40 Symmetry breaking

Ghoroku, Kazuo (*with* Yahiro, Masanobu) Chiral symmetry breaking driven by dilaton. (English summary) **2005f:81111**

Guendelman, E. I. Scale symmetry breaking from the dynamics of maximal rank gauge field strengths. (English summary) **2005b:81071**

Kehagias, Alexandros A. (*with* Tamvakis, K.) Box compactification and supersymmetry breaking. (English summary) **2005g:81154**

Nambu, Yoichiro Spontaneous breaking of Lie and current algebras. (English summary) **2005d:81198**

Narayanan, Rajamani S. (*with* Neuberger, H.) Chiral symmetry breaking at large N_c. (English summary) **2005d:81199**

Ne'eman, Yuval Noncommutative geometry and superconnections for spontaneous gauge symmetry breakdown. (English summary) **2005a:81102**

— Geometrization of spontaneously broken gauge symmetries. (Russian. Russian summary) **2005e:81108**

Neuberger, H. *see* **Narayanan, Rajamani S., 2005d:81199**

Tamvakis, K. *see* **Kehagias, Alexandros A., 2005g:81154**

Yahiro, Masanobu *see* **Ghoroku, Kazuo, 2005f:81111**

Items with secondary classifications in 81R40

Abe, Hiroyuki (*with* Choi, Kiwoon; Jeong, Kwang-Sik; Okumura, Ken-ichi) Scherk-Schwarz supersymmetry breaking for quasi-localized matter fields and supersymmetry flavor violation. (English summary) **2005g:81293**

Allanach, Ben C. (*with* King, Stephen F.; Rayner, David A. J.) Phenomenology of twisted moduli in type-I string inspired models. (English summary) **2005c:81147**

Álvarez-Gaumé, Luis (*with* Vázquez-Mozo, Miguel A.) General properties of non-commutative field theories. (English summary) **2005a:81238**

Angelantonj, Carlo (*with* Cardella, Matteo) Vanishing perturbative vacuum energy in non-supersymmetric orientifolds. (English summary) **2005f:81167**

Antoniadis, Ignatios (*with* Taylor, Tomasz R.) Topological masses from broken supersymmetry. (English summary) **2005c:81148**

Arkani-Hamed, Nima (*with* Dimopoulos, Savas; Giudice, G. F.; Romanino, A.) Aspects of split supersymmetry. (English summary)

(Arodz, Henryk) *see* **Patterns of symmetry breaking, 2005a:82002**

Asorey, Manuel Vacuum energy and θ-vacuum. (English summary) **2005f:81144**

Auzzi, Roberto (*with* Bolognesi, Stefano; Evslin, Jarah; Konishi, Kenichi; Murayama, Hitoshi) Non-abelian monopoles. (English summary) **2005h:81213**

Babington, J. (*with* Erdmenger, Johanna; Evans, Nick; Guralnik, Zachary; Kirsch, Ingo) A gravity dual of chiral symmetry breaking. (English summary) **2005c:81149**

Bender, Carl M. $\mathcal{PT}$ symmetry in quantum field theory. (English summary) **2005m:81333**

Benson, Katherine M. (*with* Imbo, Tom) Topologically Alice strings and monopoles. (English summary) **2005g:81225**

Bianchi, Massimo Higher spin symmetry (breaking) in $\mathcal{N} = 4$ SYM and holography. (English and French summaries) **2005k:81302**

Bolognesi, Stefano (*with* Konishi, Kenichi; Marmorini, Giacomo) Light non-abelian monopoles and generalized r-vacua in supersymmetric gauge theories. (English summary) **2005m:81298**

— *see also* **Auzzi, Roberto et al., 2005h:81213**

Brax, Philippe (*with* Chatillon, N.) Soft supersymmetry breaking on the brane. (English summary) **2005h:83248**

Burrington, Benjamin A. (*with* Liu, James T.) Supersymmetry and the AdS Higgs phenomenon. (English summary) **2005j:81177**

Cámara, P. G. (*with* Ibáñez, Luis E.; Uranga, Angel M.) Flux-induced SUSY-breaking soft terms. (English summary) **2005a:81161**

— (*with* Ibáñez, Luis E.; Uranga, Angel M.) Flux-induced SUSY-breaking soft terms on D7-D3 brane systems. (English summary) **2005j:81132**

Cardella, Matteo *see* **Angelantonj, Carlo, 2005f:81167**

Caudrelier, V. (*with* Ragoucy, É.) Spontaneous symmetry breaking in the non-linear Schrödinger hierarchy with defect. (English summary) **2005k:81057**

Chamseddine, Ali H. Matrix gravity and massive colored gravitons. (English summary) **2005h:83139**

Chatillon, N. *see* **Brax, Philippe, 2005h:83248**

Cho, Yoshinori (*with* Kan, Nahomi; Shiraishi, Kiyoshi) Compactification in deconstructed gauge theory with topologically non-trivial link fields. (English summary) **2005f:81146**

Choi, Kiwoon (*with* Kim, Do Young; Kim, Ian-Woo; Kobayashi, Tatsuo) Supersymmetry breaking in warped geometry. (English summary) **2005b:81189**

— (*with* Falkowski, Adam; Nilles, Hans Peter; Olechowski, Marek; Pokorski, Stefan) Stability of flux compactifications and the pattern of supersymmetry breaking. (English summary) **2005h:81267**

— *see also* **Abe, Hiroyuki et al., 2005g:81293**

Damgaard, P. H. The microscopic Dirac operator spectrum. (English summary)

David, Justin R. (*with* Gava, Edi; Narain, Kumar S.) Partial $\mathcal{N} = 2 \to \mathcal{N} = 1$ supersymmetry breaking and gravity deformed chiral rings. (English summary) **2005i:81160**

De Castro, Alexandra (*with* Quevedo, Leonardo; Restuccia, Alvaro) $\mathcal{N} = 2$ super-Born-Infeld from partially broken $\mathcal{N} = 3$ supersymmetry in $d = 4$. (English summary) **2005c:81198**

Dias, Alex G. (*with* Gomes, Marcelo O. C.; da Silva, A. J.) Dynamical breakdown of symmetry in a $(2+1)$-dimensional model containing the Chern-Simons field. (English summary) **2005d:81243**

Dimopoulos, Savas *see* **Arkani-Hamed, Nima et al.**

Dudas, Emilian (*with* Nicolosi, M.; Pradisi, G.; Sagnotti, Augusto) On tadpoles and vacuum redefinitions in string theory. (English summary) **2005h:81273**

(Dziarmaga, Jacek) *see* **Patterns of symmetry breaking, 2005a:82002**

Erdmenger, Johanna *see* **Babington, J. et al., 2005c:81149**
Evans, Nick (*with* Shock, Jonathan P.) Chiral dynamics from AdS space. (English summary) **2005h:81276**
— *see also* **Babington, J. et al., 2005c:81149**
Evslin, Jarah *see* **Auzzi, Roberto et al., 2005h:81213**
Falkowski, Adam *see* **Choi, Kiwoon et al., 2005h:81267**
Feng, Jonathan L. Supersymmetry and cosmology. (English summary) **2005h:83273**
Fujiwara, Kazuhito (*with* Itoyama, Hiroshi; Sakaguchi, Makoto) Supersymmetric U(N) gauge model and partial breaking of $\mathcal{N} = 2$ supersymmetry. (English summary) **2005m:81302**
Gava, Edi *see* **David, Justin R. et al., 2005i:81160**
von Gersdorff, G. (*with* Quirós, Mariano; Riotto, Antonio) Scherk-Schwarz supersymmetry breaking with radion stabilization. (English summary) **2005a:81219**
— (*with* Pilo, Luigi; Quirós, Mariano; Riotto, Antonio; Sanz, V.) Fermions and supersymmetry breaking in the interval. (English summary) **2005d:81332**
— (*with* Pilo, Luigi; Quirós, Mariano; Riotto, Antonio; Sanz, V.) Supersymmetry from boundary conditions. (English summary) **2005k:81312**
Giudice, G. F. *see* **Arkani-Hamed, Nima et al.**
Goh, Hock-Seng (*with* Luty, Markus A.; Ng, Siew-Phang) Supersymmetry without supersymmetry. (English summary) **2005k:81367**
Gomes, Marcelo O. C. *see* **Dias, Alex G. et al., 2005d:81243**
Gomes, Márcio A. M. (*with* Landim, R. R.) Duality and field redefinition in three dimensions. (English summary) **2005m:81287**
Graña, Mariana (*with* Grimm, Thomas W.; Jockers, Hans; Louis, Jan) Soft supersymmetry breaking in Calabi-Yau orientifolds with D-branes and fluxes. (English summary) **2005d:81283**
Grimm, Thomas W. *see* **Graña, Mariana et al., 2005d:81283**
Guralnik, Zachary *see* **Babington, J. et al., 2005c:81149**
Haba, Naoyuki (*with* Yamashita, Toshifumi) Dynamical symmetry breaking in gauge-Higgs unification of 5D $\mathcal{N} = 1$ SUSY theory. (English summary) **2005d:81336**
Hahn, Sang-Ok (*with* Oh, Phillial; Park, Cheonsoo; Shin, Sunyoung) Canonical analysis of symmetry enhancement with gauged Grassmannian model. (English summary) **2005i:81096**
Hosotani, Yutaka (*with* Noda, Shusaku; Takenaga, Kazunori) Dynamical gauge symmetry breaking and mass generation on the orbifold T^2/Z_2. (English summary) **2005e:81141**
Ibáñez, Luis E. *see* **Cámara, P. G. et al., 2005a:81161** *and* **2005j:81132**
Imbo, Tom *see* **Benson, Katherine M., 2005g:81225**
Ioannidou, Theodora (*with* Kouiroukidis, A.; Vlachos, N. D.) Universality in a class of Q-balls solutions: an analytic approach. (English summary) **2005k:81349**
Itoyama, Hiroshi (*with* Kanno, Hiroaki) Whitham prepotential and superpotential. (English summary) **2005c:81204**
— *see also* **Fujiwara, Kazuhito et al., 2005m:81302**
Jack, Ian (*with* Jones, D. R. T.; Kord, A. F.) R-parity violation and general soft supersymmetry breaking. (English summary) **2005a:81224**
Jeong, Kwang-Sik *see* **Abe, Hiroyuki et al., 2005g:81293**
Jockers, Hans *see* **Graña, Mariana et al., 2005d:81283**
Jones, D. R. T. *see* **Jack, Ian et al., 2005a:81224**
Kan, Nahomi *see* **Cho, Yoshinori et al., 2005f:81146**
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Kim, Ian-Woo *see* **Choi, Kiwoon et al., 2005b:81189**
King, Stephen F. *see* **Allanach, Ben C. et al., 2005c:81147**
Kirsch, Ingo *see* **Babington, J. et al., 2005c:81149**
Kobayashi, Tatsuo (*with* Yoshioka, Koichi) Radiative stabilization of warped space. (English summary) **2005h:81375**
— *see also* **Choi, Kiwoon et al., 2005b:81189**
Konishi, Kenichi *see* **Auzzi, Roberto et al., 2005h:81213** *and* **Bolognesi, Stefano et al., 2005m:81298**
Kord, A. F. *see* **Jack, Ian et al., 2005a:81224**
Kouiroukidis, A. *see* **Ioannidou, Theodora et al., 2005k:81349**
Lalak, Zygmunt (*with* Matyszkiewicz, Radosław) Singular gauge transformations and supersymmetry breakdown on warped orbifolds. (English summary) **2005c:81207**
Landim, R. R. *see* **Gomes, Márcio A. M., 2005m:81287**
Lawrence, Albion (*with* McGreevy, John) Local string models of soft supersymmetry breaking. (English summary) **2005g:81248**
Lemes, V. E. R. (*with* Sarandy, M. S.; Sorella, S. P.) Ghost condensates and dynamical breaking of SL(2, **R**) in Yang-Mills in the maximal abelian gauge. (English summary) **2005b:81100**
Lenz, F. (*with* Ohta, Koichi; Thies, M.; Yazaki, K.) Chiral symmetry in light-cone field theory. (English summary) **2005g:81202**
Lévai, Géza Exact analytic study of the $\mathcal{PT}$-symmetry-breaking mechanism. (English summary) **2005d:81374**
Li, Tian-Jun Gauge-fermion unification and flavour symmetry. (English summary) **2005a:81229**
Liu, James T. *see* **Burrington, Benjamin A., 2005j:81177**
Louis, Jan *see* **Graña, Mariana et al., 2005d:81283**
Lüst, Dieter (*with* Reffert, S.; Stieberger, S.) Flux-induced soft supersymmetry breaking in chiral type IIB orientifolds with D3/D7-branes. (English summary) **2005k:81251**
Luty, Markus A. *see* **Goh, Hock-Seng et al., 2005k:81367**
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Matyszkiewicz, Radosław *see* **Lalak, Zygmunt, 2005c:81207**
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Murayama, Hitoshi *see* **Auzzi, Roberto et al., 2005h:81213**
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Okumura, Ken-ichi *see* **Abe, Hiroyuki et al., 2005g:81293**
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Park, Cheonsoo *see* **Hahn, Sang-Ok et al., 2005i:81096**
Patir, Assaf (*with* Reichmann, Dori) The effective potential of the $\mathcal{N} = 0^*$ Yang-Mills theory. (English summary) **2005c:81213**
Pilo, Luigi *see* **von Gersdorff, G. et al., 2005d:81332** *and* **2005k:81312**
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Sagnotti, Augusto *see* **Dudas, Emilian et al., 2005h:81273**
Sahu, Narendra (*with* Yajnik, Urjit A.) Quantum-mechanical stability of fermion-soliton systems. (English summary) **2005e:81136**
Sakaguchi, Makoto *sée* **Fujiwara, Kazuhito et al., 2005m:81302**
Sakamura, Yutaka Geometry mediated supersymmetry breaking. (English summary) **2005h:81383**
Sannino, F. (*with* Shifman, M.) Effective Lagrangians for orientifold theories. (English summary) **2005g:81347**
Sanz, V. *see* **von Gersdorff, G. et al., 2005d:81332** *and* **2005k:81312**
Sarandy, M. S. *see* **Lemes, V. E. R. et al., 2005b:81100**
Schmaltz, Martin The simplest little Higgs. (English summary)
Schvellinger, Martin Glueballs, symmetry breaking and axionic strings in non-supersymmetric deformations of the Klebanov-Strassler background. (English summary) **2005g:81261**
Scrucca, Claudio A. Mediation of supersymmetry breaking in extra dimensions. (English summary) **2005h:81384**
Shifman, M. *see* **Sannino, F., 2005g:81347**
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Sorella, S. P. *see* **Lemes, V. E. R. et al., 2005b:81100**
Spencer, Thomas C. (*with* Zirnbauer, M. R.) Spontaneous symmetry breaking of a hyperbolic sigma model in three dimensions. (English summary) **2005h:81211**
Stieberger, S. *see* **Lüst, Dieter et al., 2005k:81251**
Takenaga, Kazunori *see* **Hosotani, Yutaka et al., 2005e:81141**
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Walker, Michael Luke Supersymmetry and chiral symmetry. (English summary) **2005k:81331**
Wereszczyński, A. Integrability and Hopf solitons in models with explicitly broken O(3) symmetry. (English summary) **2005h:81212**
Wetterich, Christof Spontaneous symmetry breaking origin for the difference between time and space. (English summary) **2005h:81032**
Yajnik, Urjit A. *see* **Sahu, Narendra, 2005e:81136**
Yamashita, Toshifumi *see* **Haba, Naoyuki, 2005d:81336**
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Items listed otherwise than by author

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Patterns of symmetry breaking ★ Patterns of symmetry breaking. **2005a:82002**

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Agostini, Alessandra (*with* Amelino-Camelia, Giovanni; D'Andrea, Francesco) Hopf-algebra description of noncommutative-space-time symmetries. (English summary) **2005k:81128**
Amelino-Camelia, Giovanni *see* **Agostini, Alessandra et al., 2005k:81128**
Arik, Metin (*with* Baykal, A.) Inhomogeneous quantum groups for particle algebras. (English summary) **2005h:81171**
Atakishiev, N. M. (*with* Klimyk, A. U.) Hamiltonian type operators in representations of the quantum algebra $su_q(1, 1)$. (English summary) **2005b:81072**
Avan, Jean *see* **Nagy, Zoltán et al., 2005h:81174**
Ballesteros, Angel (*with* Civitarese, O.; Herranz, Francisco J.; Reboïro, M.) Effective $su_q(2)$-models and polynomial algebras for fermion-boson Hamiltonians. (Russian. Russian summary) **2005f:81112**
— (*with* Celeghini, Enrico; del Olmo, M. A.) Three-dimensional quantum algebras: a Cartan-like point of view. (English summary) **2005d:81200**
Baykal, A. *see* **Arik, Metin, 2005h:81171**
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— Centre of quantum group in roots of unity and the restriction of integrable models. (English summary) **2005d:81201**
Brodlie, Alastair Classical and quantum coherent states. (English summary) **2005c:81098**

Burdík, Čestmír (*with* Navrátil, O.) Normal ordering for the deformed Heisenberg algebra involving the reflection operator. (English summary) **2005k:81129**
Celeghini, Enrico *see* **Ballesteros, Angel et al., 2005d:81200**
Chakrabarti, Ranabir (*with* Vasan, S. S.) On completeness of Barut-Girardello coherent states of $su_q(1,1)$ algebra. (English summary) **2005f:81113**
Civitarese, O. *see* **Ballesteros, Angel et al., 2005f:81112**
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Draayer, J. P. *see* **Pan, Feng[1], (2005b:00031)**
Endelman, Robin (*with* Hodges, Timothy J.) Degenerations and representations of twisted Shibukawa-Ueno R-operators. (English summary) **2005h:81173**
Fiore, Gaetano Quantum group covariant (anti)symmetrizers, ε-tensors, vielbein, Hodge map and Laplacian. (English summary) **2005g:81155**
Gavrilik, Alexandre M. Quantum groups and Cabibbo mixing. (English summary)
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Hodges, Timothy J. *see* **Endelman, Robin, 2005h:81173**
Iorgov, Nikolai On the quantum Ruijsenaars model, some quantum homogeneous spaces and Hecke algebras. (English summary) **2005m:81159**
Jaganathan, Ramaswamy (*with* Sinha, Sudeshna) A q-deformed nonlinear map. (English summary) **2005m:81160**
Jimbo, Michio *see* **Belavin, A. A., 2005h:81172**
Jing, Si-Cong (*with* Silvestrov, Sergei D.) A new kind of two-parameter deformation of Heisenberg and parabose algebras and related deformed derivative. (English summary) **2005k:81130**
Klimčík, Ctirad q-deformation of $z \to (\alpha z + \beta)/(\gamma z + \delta)$. (English summary) **2005i:81066**
— Quasitriangular WZW model. (English summary) **2005m:81161**
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Marcinek, Władysław Quantum-classical interactions and Galois type extensions. (English summary) **2005b:81073**
Mesref, L. q-deformed conformal correlation functions. (English summary) **2005m:81162**
Mir-Kasimov, Rufat M. *see* **Sogami, Ikuo S. et al., 2005c:81099**
Mozrzymas, Marek Tensor operators and Wigner-Eckart theorem for the quantum superalgebra $U_q[\mathrm{osp}(1|2)]$. (English summary) **2005e:81109**
Naderi, M. H. (*with* Roknizadeh, R.; Soltanolkotabi, M.) Harmonic oscillator realization of the deformed Bogoliubov (p,q)-transformations without first finite Fock states. (English summary) **2005k:81131**
Nagy, Zoltán (*with* Avan, Jean; Rollet, Geneviève) Construction of dynamical quadratic algebras. (English summary) **2005h:81174**
Navrátil, O. *see* **Burdík, Čestmír, 2005k:81129**
del Olmo, M. A. *see* **Ballesteros, Angel et al., 2005d:81200**
Pan, Feng[1] (*with* Draayer, J. P.) Induction and subduction coefficients of Hecke and coupling and re-coupling coefficients of $U_Q(N)$. (*see* **2005b:00031**)
Quesne, C. Disentangling q-exponentials: a general approach. (English summary) **2005f:81114**
Reboïro, M. *see* **Ballesteros, Angel et al., 2005f:81112**
Roknizadeh, R. *see* **Naderi, M. H. et al., 2005k:81131**
Rollet, Geneviève *see* **Nagy, Zoltán et al., 2005h:81174**
Rump, Wolfgang A decomposition theorem for square-free unitary solutions of the quantum Yang-Baxter equation. (English summary) **2005k:81132**
Schmüdgen, Konrad Commutator representations of covariant differential calculi. **2005h:81175**
Silvestrov, Sergei D. *see* **Jing, Si-Cong, 2005k:81130**
Sinha, Sudeshna *see* **Jaganathan, Ramaswamy, 2005m:81160**
Sogami, Ikuo S. (*with* Koizumi, Kouzou; Mir-Kasimov, Rufat M.) q-deformed and c-deformed harmonic oscillators. (English summary) **2005c:81099**
Soltanolkotabi, M. *see* **Naderi, M. H. et al., 2005k:81131**
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Wachter, H. q-exponentials on quantum spaces. (English summary) **2005f:81115**
Wagner, Elmar Hilbert-space representations of a cross-product algebra related to the 3D-calculus on $\mathcal{O}(\mathrm{SU}_q(1,1))$. (English summary) **2005d:81202**
Westbury, Bruce W. An R-matrix for $D_4^{(3)}$. (English summary) **2005k:81133**
Wu, Chunfeng (*with* Xue, Kang) Yangian realization for Dirac oscillator. (English summary) **2005h:81176**
Xue, Kang *see* **Wu, Chunfeng, 2005h:81176**

Items with secondary classifications in 81R50

Abdesselam, B. (*with* Chakrabarti, Ranabir; Hazzab, A.; Yanallah, A.) Super-Jordanian $\mathcal{U}_h(\mathrm{osp}(1|2))$ algebra as a contraction limit. (English summary) **2005c:17018**
Abłamowicz, Rafał (*with* Fauser, Bertfried) Clifford Graßmann Hopf algebras via the BIGEBRA package for Maple. (English summary)
Adamska, L. V. (*with* Gavrilik, Alexandre M.) Multi-particle correlations in qp-Bose gas model. (English summary) **2005a:82011**
Albanese, Claudio (*with* Lawi, Stephan) Time quantization and q-deformations. (English summary) **2005a:81110**
Alcaraz, Francisco C. (*with* Stroganov, Yu. G.) Free-fermion energies in the SU(N) Perk-Schultz model. (English summary) **2005g:82028**
Algin, Abdullah (*with* Arik, Metin) Quantum group invariant fermionic gases: $\mathrm{GL}_{p,q}(2)$ and $\mathrm{SU}_{p/q}(2)$ invariances. (English summary) **2005a:82012**
Ali, Syed Twareque (*with* Engliš, Miroslav; Gazeau, Jean-Pierre) Vector coherent states from Plancherel's theorem, Clifford algebras and matrix domains. (English summary) **2005m:81147**
Alnajjar, Hasan (*with* Curtin, Brian) A family of tridiagonal pairs. (English summary) **2005h:15005**
Arik, Metin *see* **Algin, Abdullah, 2005a:82012**
Arnaudon, Daniel (*with* Crampé, N.; Frappat, Luc; Ragoucy, É.) Super Yangian $Y(\mathrm{osp}(1|2))$ and the universal R-matrix of its quantum double. (English summary) **2005a:17009**
— (*with* Chakrabarti, Amitabha[1]; Dobrev, V. K.; Mikhov, S. G.) On exotic bialgebras. (English summary)
— (*with* Crampé, N.; Doikou, Anastasia; Frappat, Luc; Ragoucy, É.; Avan, Jean) On $\mathrm{osp}(M|2n)$ integrable open spin chains. (English summary) **2005j:82009**
— (*with* Sedrakyan, Ara G.; Sedrakyan, T.) Integrable N-leg ladder models. (English summary) **2005d:82032**
— (*with* Sedrakyan, Ara G.; Sedrakyan, T.) Multi-leg integrable ladder models. (English summary) **2005d:82031**
Atakishiev, N. M. *see* **Atakishiyev, M. N. et al., 2005a:33016**
Atakishiyev, M. N. (*with* Atakishiev, N. M.; Klimyk, A. U.) Big q-Laguerre and q-Meixner polynomials and representations of the quantum algebra $U_q(\mathrm{su}_{1,1})$. (English summary) **2005a:33016**
— (*with* Groza, V. A.) The quantum algebra $U_q(\mathrm{su}_2)$ and q-Krawtchouk families of polynomials. (English summary) **2005a:33017**
— (*with* Groza, V. A.; Klimyk, A. U.) Representations of the quantum algebra $U_Q(\mathrm{SU}_2)$ and affine Q-Krawtchouk polynomials. (English summary) **2005h:17020**
Avan, Jean (*with* Doikou, Anastasia) Commuting quantum traces: the case of reflection algebras. (English summary) **2005h:81160**
— *see also* **Arnaudon, Daniel et al., 2005j:82009**
Babichenko, A. From S-matrices to the thermodynamic Bethe ansatz. (English summary) **2005g:82029**
Ballesteros, Angel (*with* Ragnisco, Orlando) Classical dynamical systems from q-algebras: 'cluster' variables and explicit solutions. (English summary) **2005b:70020**
Banica, T. The planar algebra of a coaction. (English summary) **2005m:46106**
Basu-Mallick, B. (*with* Bhattacharyya, Tanaya) Exact solvability and quantum integrability of a derivative nonlinear Schrödinger model. (English summary) **2005e:81090**
Benkart, Georgia (*with* Witherspoon, S. J.) Restricted two-parameter quantum groups. (English summary) **2005b:17027**
— (*with* Witherspoon, S. J.) Two-parameter quantum groups and Drinfel'd doubles. (English summary) **2005g:17028**
Bershtein, Olga Degenerate principal series of quantum Harish-Chandra modules. (English summary) **2005g:17030**
Bhattacharyya, Tanaya *see* **Basu-Mallick, B., 2005e:81090**
Blohmann, Christian Covariant realization of quantum spaces as star products by Drinfeld twists. (English summary) **2005i:58007**
Bondarenko, A. V. A description of the anti-Fock representation of a set of $*$-algebras connected with piecewise linear-fractional unimodal mappings. (English summary) **2005c:46071**
Bonechi, Francesco (*with* Ciccoli, Nicola; Tarlini, Marco) Standard quantum spheres. (English summary) **2005a:58014**
— (*with* Ciccoli, Nicola; Dąbrowski, Ludwik; Tarlini, Marco) Bijectivity of the canonical map for the non-commutative instanton bundle. (English summary) **2005f:58005**
Bonneau, Philippe (*with* Gerstenhaber, Murray; Giaquinto, Anthony; Sternheimer, Daniel) Quantum groups and deformation quantization: explicit approaches and implicit aspects. (English summary) **2005k:53177**
Buffenoir, E. (*with* Roche, Ph.) An infinite product formula for $U_q(\mathrm{sl}(2))$ dynamical coboundary element. (English summary) **2005f:17013**
Bukhshtaber, Viktor Matveevich (*with* Monastyrskiĭ, M. I.) Generalized Kramers-Wannier duality for spin systems with non-commutative symmetry. (English summary) **2005c:82015**
Cabrera-Carnero, I. (*with* Gomes, J. F.; Sotkov, G. M.; Zimerman, A. H.) Vertex operators and soliton solutions of affine Toda model with U(2) symmetry. (English summary) **2005e:81092**
Campigotto, Corrado *see* **Smirnov, Yu. F., 2005g:33040**
Carroll, Robert Wayne Aspects of quantum groups and integrable systems. (English summary) **2005e:37148**
Caudrelier, V. (*with* Ragoucy, É.) Lax pair and super-Yangian symmetry of the nonlinear super-Schrödinger equation. (English summary) **2005c:81083**
Chakrabarti, Amitabha[1] *see* **Arnaudon, Daniel et al.**
Chakrabarti, Ranabir *see* **Abdesselam, B. et al., 2005c:17018**
Chen, Yujun Quantum Liouville theory and BTZ black hole entropy. (English summary) **2005h:81242**
Ciccoli, Nicola *see* **Bonechi, Francesco et al., 2005a:58014** *and* **2005f:58005**
Coquereaux, Robert (*with* Huerta, Marina) Torus structure on graphs and twisted partition functions for minimal and affine models. (English summary) **2005g:81138**
— (*with* Huerta, Marina) Coxeter and Dynkin diagrams and their associated twisted partition functions for the Virasoro minimal models. (English summary) **2005k:81103**
Crampé, N. *see* **Arnaudon, Daniel et al., 2005a:17009** *and* **2005j:82009**
Cugliandolo, Leticia F. (*with* Lozano, G. S.; Moreno, Enrique F.; Schaposnik, Fidel A.) A note on Gaussian integrals over para-Grassmann variables. (English summary) **2005a:58017**
Curado, Evaldo M. F. *see* **Oliveira-Neto, N. M. et al., 2005f:82074**
Curtin, Brian *see* **Alnajjar, Hasan, 2005h:15005**
Dąbrowski, Ludwik *see* **Bonechi, Francesco et al., 2005f:58005**
Delius, G. W. (*with* MacKay, Niall J.) Quantum group symmetry in sine-Gordon and affine Toda field theories on the half-line. (English summary) **2005e:81093**
Deng, Hui[3] (*with* Hou, Bo-Yu; Shi, Kang-Jie; Yang, Zhan-Ying; Yue, Rui-Hong) Soliton solutions on noncommutative orbifold T^2/Z_4. (English summary) **2005d:81354**
Dimakis, Aristophanes (*with* Müller-Hoissen, Folkert) Differential calculi on quantum spaces determined by automorphisms. (English summary) **2005m:58013**
Dobrev, V. K. *see* **Arnaudon, Daniel et al.**
Doikou, Anastasia *see* **Avan, Jean, 2005h:81160** *and* **Arnaudon, Daniel et al., 2005j:82009**
Du, Jie (*with* Parshall, Brian) Linear quivers and the geometric setting of quantum GL_n. (English summary) **2005b:17031**
El Baz, Morad (*with* Hassouni, Y.) On the construction of generalized Grassmann representatives of state vectors. (English summary) **2005b:81068**
Engliš, Miroslav *see* **Ali, Syed Twareque et al., 2005m:81147**
Fauser, Bertfried *see* **Abłamowicz, Rafał**
Feĭgin, B. (*with* Jimbo, Michio; Kashiwara, Masaki; Miwa, Tetsuji; Mukhin, E. E.; Takeyama, Yoshihiro) A functional model for the tensor product of level 1 highest and level -1 lowest modules for the quantum affine algebra $U_q(\widehat{\mathrm{sl}}_2)$. (English summary) **2005g:17031**

Feldvoss, Jörg Existence of triangular Lie bialgebra structures. II. (English summary) **2005m:17030**

Frappat, Luc *see* **Arnaudon, Daniel et al., 2005a:17009** *and* **2005j:82009**

Fring, Andreas (*with* Korff, Christian) Exactly solvable potentials of Calogero type for q-deformed Coxeter groups. (English summary) **2005m:81136**

Gavrilik, Alexandre M. *see* **Adamska, L. V., 2005a:82011**

Gazeau, Jean-Pierre *see* **Ali, Syed Twareque et al., 2005m:81147**

von Gehlen, G. (*with* Pakulyak, S. Z.; Sergeev, Sergei M.) The modified tetrahedron equation and its solutions. (English summary) **2005j:82022**

Gerstenhaber, Murray *see* **Bonneau, Philippe et al., 2005k:53177**

Giaquinto, Anthony *see* **Bonneau, Philippe et al., 2005k:53177**

Gomes, J. F. *see* **Cabrera-Carnero, I. et al., 2005e:81092**

Gomez, Xavier (*with* Majid, Shahn) Relating quantum and braided Lie algebras. (English summary) **2005a:58012**

Grillo, S. (*with* Montani, H.) Integrable mixing of A_{n-1} type vertex models. (English summary) **2005m:82039**

Groza, V. A. *see* **Atakishiyev, M. N. et al., 2005a:33017** *and* **2005h:17020**

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Hazzab, A. *see* **Abdesselam, B. et al., 2005c:17018**

Henselder, Peter *see* **Hirshfeld, Allen C., 2005c:81110**

Hiai, Fumio Free relative entropy and q-deformation theory. (English summary) **2005k:46176**

Hirshfeld, Allen C. (*with* Henselder, Peter) Star products and quantum groups in quantum mechanics and field theory. (English summary) **2005c:81110**

Hong, Jin (*with* Kang, Seok-Jin; Lee, Hyeonmi) Young wall realization of crystal graphs for $U_q(C_n^{(1)})$. (English summary) **2005d:17021**

Hou, Bo-Yu *see* **Deng, Hui[3] et al., 2005d:81354**

Huerta, Marina *see* **Coquereaux, Robert, 2005g:81138** *and* **2005k:81103**

Jacobsen, Jesper Lykke (*with* Zinn-Justin, Paul) Algebraic Bethe ansatz for the FPL[2] model. (English summary) **2005e:82014**

Jimbo, Michio (*with* Miwa, Tetsuji; Mukhin, E. E.; Takeyama, Yoshihiro) Form factors and action of $U_{\sqrt{-1}}(\widehat{\mathrm{sl}}_2)$ on ∞-cycles. (English summary) **2005c:81086**

— *see also* **Feĭgin, B. et al., 2005g:17031**

Kang, Seok-Jin (*with* Kim, Jeong-Ah; Shin, Dong-Uy) Crystal bases for quantum classical algebras and Nakajima's monomials. (English summary) **2005i:17020**

— (*with* Kim, Jeong-Ah; Lee, Hyeonmi; Shin, Dong-Uy) Young wall realization of crystal bases for classical Lie algebras. (English summary) **2005b:17032**

— *see also* **Hong, Jin et al., 2005d:17021**

Karakhanyan, D. R. On the construction of representations of the nonstandardly deformed algebra $\mathrm{sl}_\xi(2)$. (Russian. Russian summary) **2005d:17012**

Kashiwara, Masaki *see* **Feĭgin, B. et al., 2005g:17031**

Khalkhali, Masoud (*with* Rangipour, Bahram) Para-Hopf algebroids and their cyclic cohomology. (English summary) **2005m:58018**

Kim, Jeong-Ah *see* **Kang, Seok-Jin et al., 2005b:17032** *and* **2005i:17020**

Klimyk, A. U. *see* **Atakishiyev, M. N. et al., 2005a:33016** *and* **2005h:17020**

Kojima, Takeo (*with* Konno, Hitoshi) The Drinfeld realization of the elliptic quantum group $\mathscr{B}_{q,\lambda}(A_2^{(2)})$. (English summary) **2005d:17023**

— (*with* Konno, Hitoshi) The elliptic algebra $U_{q,p}(\widehat{\mathrm{sl}}_N)$ and the deformation of W_N algebra. (English summary) **2005b:17033**

Konno, Hitoshi *see* **Kojima, Takeo, 2005b:17033** *and* **2005d:17023**

Korff, Christian Auxiliary matrices for the six-vertex model at $q^N = 1$. II. Bethe roots, complete strings and the Drinfeld polynomial. (English summary) **2005d:82034**

— The twisted XXZ chain at roots of unity revisited. (English summary) **2005c:82017**

— Auxiliary matrices for the six-vertex model and the algebraic Bethe ansatz. (English summary) **2005d:82033**

— *see also* **Fring, Andreas, 2005m:81136**

Kowalski, Krzysztof (*with* Rembieliński, Jakub) Coherent states for the q-deformed quantum mechanics on a circle. (English summary) **2005j:81081**

Kuniba, Atsuo (*with* Takagi, Taichiro; Takenouchi, Akira) Factorization, reduction and embedding in integrable cellular automata. (English summary) **2005a:82073**

Kwaśniewski, Andrzej K. q-Poisson, q-Dobinski, q-Rota and q-coherent states—a second fortieth anniversary memoir. (English summary)

Lawi, Stephan *see* **Albanese, Claudio, 2005a:81110**

Lee, Hyeonmi *see* **Kang, Seok-Jin et al., 2005b:17032** *and* **Hong, Jin et al., 2005d:17021**

Lenczewski, Romuald Reduction of free independence to tensor independence. (English summary) **2005k:46179**

Letzter, Gail Quantum zonal spherical functions and Macdonald polynomials. (English summary) **2005i:33019**

Lima-Santos, A. (*with* Malara, R.) $C_n^{(1)}$, $D_n^{(1)}$ and $A_{2n-1}^{(2)}$ reflection K-matrices. (English summary) **2005b:82024**

Lowe, David A. q-deformed de Sitter/conformal field theory correspondence. (English summary) **2005k:81283**

Lozano, G. S. *see* **Cugliandolo, Leticia F. et al., 2005a:58017**

MacKay, Niall J. *see* **Delius, G. W., 2005e:81093**

Maistrenko, Tatyana (*with* Popovych, Stanislav V.; Samoĭlenko, Yuriĭ S.) On the algebra of unharmonic quantum oscillator. (English summary) **2005b:46123**

Majid, Shahn *see* **Gomez, Xavier, 2005a:58012**

Malara, R. *see* **Lima-Santos, A., 2005b:82024**

Mansour, M. (*with* Zakkari, E. H.) Fractional spin through quantum affine algebras with vanishing central charge. (English summary) **2005m:81130**

Mesref, L. A map between q-deformed and ordinary gauge theories. (English summary) **2005e:81249**

Mikhov, S. G. *see* **Arnaudon, Daniel et al.**

Mir-Kasimov, Rufat M. On classical and quantum q-oscillators in the relativistic theory. (English summary) **2005k:81142**

Miwa, Tetsuji *see* **Jimbo, Michio et al., 2005c:81086** *and* **Feĭgin, B. et al., 2005g:17031**

Molev, A. I. (*with* Tolstoĭ, V. N.; Zhang, Rui Bin) On irreducibility of tensor products of evaluation modules for the quantum affine algebra. (English summary) **2005g:17034**

Monastyrskiĭ, M. I. *see* **Bukhshtaber, Viktor Matveevich, 2005c:82015**

Montani, H. *see* **Grillo, S., 2005m:82039**

Moreno, Enrique F. *see* **Cugliandolo, Leticia F. et al., 2005a:58017**

Morita, Jun (*with* Sakaguchi, Hideyuki) Some formulae in $U_q(\mathrm{sl}_2)$ and diagonalizability. (English summary) **2005d:17025**

de Moura, Adriano Adrega Elliptic dynamical R-matrices from the monodromy of the q-Knizhnik-Zamolodchikov equations for the standard representation of $U_q(\widehat{\mathrm{sl}}_{n+1})$. **2005b:81061**

Mukhin, E. E. *see* **Jimbo, Michio et al., 2005c:81086** *and* **Feĭgin, B. et al., 2005g:17031**

Müller-Hoissen, Folkert *see* **Dimakis, Aristophanes, 2005m:58013**

Musso, Fabio (*with* Petrera, Matteo; Ragnisco, Orlando; Satta, Giovanni) Gaudin models with $\mathscr{U}_q(\mathrm{osp}(1|2))$ symmetry. (English summary) **2005m:82041**

Naderi, M. H. (*with* Roknizadeh, R.; Soltanolkotabi, M.) On the coherent states associated with deformed Bogoliubov (p, q)-transformations without first finite Fock states. (English summary) **2005k:81124**

Naito, Satoshi (*with* Sagaki, Daisuke) A rationalization of the crystal $\mathbb{Z}^\infty$ and a diagram automorphism. (English summary) **2005b:17035**

Nakagami, Yoshiomi Amenability for weighted Hopf C^*-algebras. (English summary) **2005b:46135**

Nichols, Alexander The origin of multiplets of chiral fields in $\mathrm{SU}(2)_k$ at rational level. (English summary) **2005i:81055**

Nobre, Fernando D. *see* **Oliveira-Neto, N. M. et al., 2005f:82074**

Noels, Jeroen Constructing Fourier transforms on the quantum $E(2)$-group. (English summary) **2005b:43006**

Oliveira-Neto, N. M. (*with* Curado, Evaldo M. F.; Nobre, Fernando D.; Rego-Monteiro, M. A.) Aging and metastability in the dynamics of quantum-group oscillators. (English summary) **2005f:82074**

Oota, Takeshi Quantum projectors and local operators in lattice integrable models. (English summary) **2005a:82030**

Pakulyak, S. Z. *see* **von Gehlen, G. et al., 2005j:82022**

Paolucci, A. Cuntz algebras and dynamical quantum group SU(2). (English summary) **2005k:20120**

Parashar, Dayanand (*with* Parashar, Deepak) Construction of the generalised q-derivative operators. (English summary) **2005a:58013**

Parashar, Deepak *see* **Parashar, Dayanand, 2005a:58013**

Parshall, Brian *see* **Du, Jie, 2005b:17031**

Parthasarathy, Ragavachariar (*with* Sridhar, Raghavendra) Diagonal representation of density matrix using q-coherent states. (English summary) **2005f:82012**

Petrera, Matteo *see* **Musso, Fabio et al., 2005m:82041**

Ponsot, Bénédicte (*with* Teschner, Jörg) Clebsch-Gordan and Racah-Wigner coefficients for a continuous series of representations of $\mathscr{U}_q(\mathfrak{sl}(2,\mathbb{R}))$. (English summary) **2005a:17011**

— Recent progress in Liouville field theory. (English summary) **2005f:81218**

Popovych, Stanislav V. *see* **Maistrenko, Tatyana et al., 2005b:46123**

Pusz, W. (*with* Sołtan, P. M.) Functional form of unitary representations of the quantum '$az + b$' group. (English summary) **2005c:46108**

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Roknizadeh, R. *see* **Naderi, M. H. et al., 2005k:81124**

Rosengren, Hjalmar Duality and self-duality for dynamical quantum groups. (English summary) **2005g:17037**

— Sklyanin invariant integration. **2005m:33024**

Rowicka, Małgorzata Exponential equations related to the quantum '$ax + b$' group. (English summary) **2005g:46133**

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Sakaguchi, Hideyuki *see* **Morita, Jun, 2005d:17025**

Samoĭlenko, Yuriĭ S. *see* **Maistrenko, Tatyana et al., 2005b:46123**

Saponov, P. A. The Weyl approach to the representation theory of reflection equation algebra. (English summary) **2005m:81139**

Satta, Giovanni *see* **Musso, Fabio et al., 2005m:82041**

Schaposnik, Fidel A. *see* **Cugliandolo, Leticia F. et al., 2005a:58017**

Sedrakyan, Ara G. *see* **Arnaudon, Daniel et al., 2005d:82031** *and* 2005d:82032

Sedrakyan, T. *see* **Arnaudon, Daniel et al., 2005d:82031** *and* 2005d:82032

Sergeev, Sergei M. An evolution operator for a quantum pendulum. (Russian. Russian summary) **2005d:81124**

— *see also* **von Gehlen, G. et al., 2005j:82022**

Shi, Kang-Jie *see* **Deng, Hui[3] et al., 2005d:81354**

Shin, Dong-Uy *see* **Kang, Seok-Jin et al., 2005b:17032** *and* **2005i:17020**

Shiraishi, Jun'ichi Free field constructions for the elliptic algebra $\mathscr{A}_{q,p}(\widehat{\mathrm{sl}}_2)$ and Baxter's eight-vertex model. (English summary) **2005h:82035**

Shklyarov, D. (*with* Sinel'shchikov, S.; Vaksman, L.) Fock representations and quantum matrices. (English summary) **2005k:20121**

Sinel'shchikov, S. *see* **Shklyarov, D. et al., 2005k:20121**

Smirnov, Yu. F. (*with* Campigotto, Corrado) The quantum q-Krawtchouk and q-Meixner polynomials and their related D-functions for the quantum groups $\mathrm{SU}_q(2)$ and $\mathrm{SU}_q(1,1)$. (English summary) **2005g:33040**

Sołtan, P. M. *see* **Pusz, W., 2005c:46108**

Soltanolkotabi, M. *see* **Naderi, M. H. et al., 2005k:81124**

Sotkov, G. M. *see* **Cabrera-Carnero, I. et al., 2005e:81092**

Spiridonov, V. P. The factorization method, self-similar potentials and quantum algebras. (English summary) **2005c:81053**

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Sternheimer, Daniel *see* **Bonneau, Philippe et al., 2005k:53177**

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Stukopin, Vladimir Yangians of classical Lie superalgebras: basic constructions, quantum double and universal R-matrix. (English summary)
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Takeyama, Yoshihiro *see* **Jimbo, Michio et al., 2005c:81086** *and* **Feĭgin, B. et al., 2005g:17031**
Tarlini, Marco *see* **Bonechi, Francesco et al., 2005a:58014** *and* **2005f:58005**
Teschner, Jörg *see* **Ponsot, Bénédicte, 2005a:17011**
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Vaksman, L. *see* **Shklyarov, D. et al., 2005k:20121**
Vitiello, Giuseppe Classical chaotic trajectories in quantum field theory. (English summary) **2005b:81219**
Wang, Ding Guo[1] *see* **Yang, Shi Lin, 2005j:17016**
Wang, Shi-Kun (*with* Wu, Ke[1]) Seven-vertex solutions of the colored Yang-Baxter equation. (English summary) **2005f:82030**
Witherspoon, S. J. *see* **Benkart, Georgia, 2005b:17027** *and* **2005g:17028**
Wu, Ke[1] *see* **Wang, Shi-Kun, 2005f:82030**
Yanallah, A. *see* **Abdesselam, B. et al., 2005c:17018**
Yang, Shi Lin (*with* Wang, Ding Guo[1]) $U_q^{\mathrm{res}}(\mathfrak{sl}_2)$-invariant forms on their modules. (English summary) **2005j:17016**
Yang, Zhan-Ying *see* **Deng, Hui[3] et al., 2005d:81354**
Yue, Rui-Hong *see* **Deng, Hui[3] et al., 2005d:81354**
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Zinn-Justin, Paul *see* **Jacobsen, Jesper Lykke, 2005e:82014**

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Abe, Yasuhiro Construction of fuzzy S^4. (English summary) **2005k:81134**
(Aerts, Diederik) *see* **Errata: "Quantum morphogenesis: a variation on Thom's catastrophe theory"**
Agostini, Alessandra Hopf-algebra description of noncommutative-spacetime symmetries. (English summary) **2005c:81100**
Aizawa, N. (*with* Chakrabarti, Ranabir) Noncommutative geometry of super-Jordanian $\mathrm{OSp}_h(2/1)$ covariant quantum space. (English summary) **2005c:81101**
Andrzejewski, Krzysztof[1] (*with* Maślanka, Paweł) Heisenberg algebra for the restricted Landau problem. (English summary) **2005i:81067**
Aoki, Hajime (*with* Iso, Satoshi; Maeda, Toshiharu; Nagao, Keiichi) Dynamical generation of a nontrivial index on the fuzzy 2-sphere. (English summary) **2005m:81163**
Balachandran, Aiyalam P. (*with* Immirzi, Giorgio) Duality in fuzzy sigma models. (English summary) **2005g:81156**
— (*with* Govindarajan, Thupil R.; Gomes Martins, Andrey; Teotonio-Sobrinho, Paulo) Time-space noncommutativity: quantised evolutions. (English summary) **2005i:81068**
Bander, Myron Noncommuting spherical coordinates. (English summary) **2005h:81177**
Barbosa, G. D. (*with* Pinto-Neto, N.) Noncommutative quantum mechanics and Bohm's ontological interpretation. (English summary) **2005f:81116**
Belhaj, Adil (*with* García del Moral, Maria Pilar) On non-commutative G_2 structure. (English summary) **2005k:81135**
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Dehghani, M. *see* **Mirza, Behrouz**
Dimitrijević, Marija (*with* Möller, Lutz; Tsouchnika, Efrossini) Derivatives, forms and vector fields on the κ-deformed Euclidean space. **2005g:81157**
Dolan, Brian P. (*with* O'Connor, Denjoe) A fuzzy three sphere and fuzzy tori. (English summary) **2005d:81203**
— (*with* O'Connor, Denjoe; Prešnajder, Peter) Fuzzy complex quadrics and spheres. (English summary) **2005c:81102**
Dragović, Branko G. (*with* Rakić, Zoran) Lagrangian aspects of quantum dynamics on a noncommutative space. (English summary) **2005b:81074**
— (*with* Rakić, Zoran) Path integrals in noncommutative quantum mechanics. (Russian. Russian summary) **2005i:81070**
Durhuus, Bergfinnur (*with* Jonsson, Thordur; Nest, Ryszard) The existence and stability of noncommutative scalar solitons. (English summary) **2005c:81103**
— (*with* Jonsson, Thordur) Noncommutative waves have infinite propagation speed. (English summary) **2005k:81136**
Fan, Hong Yi[1] *see* **Jing, Si-Cong, 2005m:81166**
Fosco, Cesar Daniel (*with* Torroba, Gonzalo) Noncommutative theories and general coordinate transformations. (English summary) **2005k:81137**
Frenkel, Josif (*with* Pereira, Saulo Hernrique) Coordinate noncommutativity in strong nonuniform magnetic fields. (English summary) **2005e:81110**
Frydryszak, Andrzej M. (*with* Tkachuk, Volodymyr M.) Aspects of pre-quantum description of deformed theories. (English summary) **2005c:81104**
(Gabora, Liane) *see* **Errata: "Quantum morphogenesis: a variation on Thom's catastrophe theory"**
García del Moral, Maria Pilar *see* **Belhaj, Adil, 2005k:81135**
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Hawkins, Eli Noncommutative rigidity for physicists. (English summary) **2005d:81204**
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Hu, Liangyou *see* **Hu, Liangzhong et al., 2005b:81075**
Hu, Liangzhong (*with* Hu, Liangyou; Sant'Anna, Adonai S.) Born-Infeld action on discrete spaces. (English summary) **2005b:81075**
— (*with* Sant'Anna, Adonai S.) Chern-Simons action on a finite point space. (English summary) **2005i:81071**
Immirzi, Giorgio *see* **Balachandran, Aiyalam P., 2005g:81156**
Iso, Satoshi *see* **Aoki, Hajime et al., 2005m:81163**
Ivanova, T. A. (*with* Lechtenfeld, Olaf; Müller-Ebhardt, Helge) Noncommutative moduli for multi-instantons. (English summary)
— (*with* Lechtenfeld, Olaf) Noncommutative instantons in $4k$ dimensions. (English summary) **2005m:81164**
Jannussis, A. (*with* Papatheou, V.; Vlachos, K.) Non-commutative geometry and applications in physics. (English summary) **2005m:81165**
Jing, Si-Cong (*with* Fan, Hong Yi[1]) Invariant eigen-operator method of deriving energy-level gap for noncommutative quantum mechanics. (English summary) **2005m:81166**
Jonsson, Thordur *see* **Durhuus, Bergfinnur et al., 2005c:81103** *and* **2005k:81136**
Kanamori, Issaku (*with* Kawamoto, Noboru) Dirac-Kähler fermion from Clifford product with noncommutative differential form on a lattice. (English summary) **2005f:81118**
Kawamoto, Noboru *see* **Kanamori, Issaku, 2005f:81118**
Khetselius, Dennis Noncommutative corrections to the MIC-Kepler Hamiltonian. (English summary) **2005k:81138**
Król, Jerzy[2] Exotic smoothness and noncommutative spaces. The model-theoretical approach. (English summary) **2005c:81105**
(Kuna, Maciej) *see* **Errata: "Quantum morphogenesis: a variation on Thom's catastrophe theory"**
Lechtenfeld, Olaf (*with* Popov, Alexander D.; Szabo, Richard J.) Noncommutative instantons in higher dimensions, vortices and topological K-cycles. (English summary) **2005f:81119**
— (*with* Popov, Alexander D.) Noncommutative monopoles and Riemann-Hilbert problems. (English summary) **2005g:81158**
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Maślanka, Paweł *see* **Andrzejewski, Krzysztof[1], 2005i:81067**
Mirza, Behrouz (*with* Dehghani, M.) Noncommutative geometry and classical orbits of particles in a central force potential. (English summary)
— (*with* Mohadesi, M.) The Klein-Gordon and the Dirac oscillators in a noncommutative space. (English summary) **2005j:81083**
Mohadesi, M. *see* **Mirza, Behrouz, 2005j:81083**
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Pinto-Neto, N. *see* **Barbosa, G. D., 2005f:81116**
Pinzul, A. (*with* Stern, Allen) Space-time noncommutativity from particle mechanics. (English summary) **2005b:81077**
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— *see also* **Lechtenfeld, Olaf et al., 2005f:81119** *and* **2005g:81158**
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Xiong, Chuan-Hua (*with* Yue, Rui-Hong) Dirac operator on fuzzy sphere with U(1) Dirac monopole background. (English summary) **2005g:81160**

Yu, Tian[1] (*with* Zhu, Chuan-Jie) Instantons on general noncommutative $\mathbf{R}^4$. (English summary) **2005d:81207**
— (*with* Zhu, Chuan-Jie; Song, Xing-Chang) Topological charge of noncommutative ADHM instanton. (English summary) **2005d:81208**
— Topological charge of ADHM instanton on $\mathbf{R}^2_{NC} \times \mathbf{R}^2$. (English summary) **2005a:81104**
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Zhang, Jian-Zu Fractional angular momentum in non-commutative spaces. (English summary) **2005b:81078**
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Zuevsky, A. Continual Lie algebras and noncommutative counterparts of exactly solvable models. (English summary) **2005e:81111**

Items listed otherwise than by author

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Items with secondary classifications in 81R60

Agostini, Alessandra (*with* Amelino-Camelia, Giovanni; D'Andrea, Francesco) Hopf-algebra description of noncommutative-space-time symmetries. (English summary) **2005k:81128**
Alavi, S. A. Heisenberg quantization for systems of identical particles and the Pauli exclusion principle in noncommutative spaces. (English summary) **2005d:81209**
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Amorim, Ricardo (*with* Ferreira, Cristine N.; Godinho, Cresus F. L.) The non-commutative $U(N)$ Kalb-Ramond theory. (English summary) **2005c:81221**
Asgari, M. S. *see* **Khosravi, Amir**, **2005c:46085**
Bahns, Dorothea (*with* Doplicher, S.; Fredenhagen, Klaus; Piacitelli, Gherardo) Ultraviolet finite quantum field theory on quantum spacetime. (English summary) **2005b:81207**
Bandelloni, G. (*with* Lazzarini, S.) Noncommutative coordinates on Riemann surfaces. (English summary) **2005h:81156**
Bars, Itzhak (*with* Deliduman, Cemsinan; Pasqua, Andrea; Zumino, Bruno) Superstar in noncommutative superspace via covariant quantization of the superparticle. (English summary) **2005g:81163**
— (*with* Park, Inyong Y.) Improved off-shell scattering amplitudes in string field theory and new computational methods. (English summary) **2005e:81161**
Bérard, Alain (*with* Mohrbach, Hervé) Monopole and Berry phase in momentum space in noncommutative quantum mechanics. (English summary) **2005g:81124**
Bigatti, Daniela String theory and the fuzzy torus. (English summary) **2005k:81338**
Bonechi, Francesco (*with* Ciccoli, Nicola; Tarlini, Marco) Standard quantum spheres. (English summary) **2005a:58014**
— (*with* Ciccoli, Nicola; Dąbrowski, Ludwik; Tarlini, Marco) Bijectivity of the canonical map for the non-commutative instanton bundle. (English summary) **2005f:58005**
Brzeziński, Tomasz (*with* Dąbrowski, Ludwik; Zieliński, Bartosz) Hopf fibration and monopole connection over the contact quantum spheres. (English summary) **2005d:58013**
Castellani, Gianluca *see* **Sivasubramanian, Somu et al.**, **2005f:81304**
Chair, Noureddine (*with* Dalabeeh, Mohammad A.) The noncommutative quadratic Stark effect for the H-atom. (English summary) **2005j:81059**
Ciccoli, Nicola *see* **Bonechi, Francesco et al.**, **2005a:58014** *and* **2005f:58005**
Ciupală, Cătălin Linear connections on almost commutative algebras. (English summary) **2005f:58006**
— Linear connections on differential graded p-algebras. (English summary) **2005m:58015**
— Connections and distributions on quantum hyperplane. (English summary) **2005m:58016**
— p-differential calculi and linear connections on matrix algebra. (English summary) **2005m:58017**
Correa, Diego H. (*with* Forgács, Peter; Moreno, Enrique F.; Schaposnik, Fidel A.; Silva, Guillermo A.) A monopole solution from noncommutative multi-instantons. (English summary) **2005f:81257**
Cougo-Pinto, M. V. (*with* Farina de Souza, Carlos; Mendes, J. F. M.) Casimir effect in kappa deformed electrodynamics. (English summary) **2005g:81351**
Dąbrowski, Ludwik (*with* Sitarz, Andrzej) Dirac operator on the standard Podleś quantum sphere. (English summary) **2005g:58056**
— *see also* **Brzeziński, Tomasz et al.**, **2005d:58013** *and* **Bonechi, Francesco et al.**, **2005f:58005**
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D'Andrea, Francesco *see* **Agostini, Alessandra et al.**, **2005k:81128**
Deliduman, Cemsinan *see* **Bars, Itzhak et al.**, **2005g:81163**
Dimakis, Aristophanes (*with* Müller-Hoissen, Folkert) Riemannian geometry of bicovariant group lattices. (English summary) **2005b:58010**
— (*with* Müller-Hoissen, Folkert) Automorphisms of associative algebras and noncommutative geometry. (English summary) **2005e:58005**
Djemaï, A. E. F. (*with* Smail, H.) On quantum mechanics on noncommutative quantum phase space. (English summary) **2005g:81165**
Dolan, Brian P. (*with* Jahn, Oliver) Fuzzy complex Grassmannian spaces and their star products. (English summary) **2005f:58007**
Doplicher, S. *see* **Bahns, Dorothea et al.**, **2005b:81207**
Fabiano, N. *see* **Sivasubramanian, Somu et al.**, **2005f:81304**
Farina de Souza, Carlos *see* **Cougo-Pinto, M. V. et al.**, **2005g:81351**
Ferreira, Cristine N. *see* **Amorim, Ricardo et al.**, **2005c:81221**
Figueroa, Héctor (*with* Gracia-Bondía, José M.) The uses of Connes and Kreimer's algebraic formulation of renormalization theory. (English summary) **2005g:81200**
Forgács, Peter *see* **Correa, Diego H. et al.**, **2005f:81257**
Fredenhagen, Klaus *see* **Bahns, Dorothea et al.**, **2005b:81207**
Garidi, T. *see* **Gazeau, Jean-Pierre et al.**, **2005d:81197**
Gayral, Victor The action functional for Moyal planes. (English summary) **2005c:58051**
— (*with* Gracia-Bondía, José M.; Iochum, Bruno; Schücker, Thomas; Várilly, J. C.) Moyal planes are spectral triples. (English summary) **2005f:58045**
Gazeau, Jean-Pierre (*with* Garidi, T.; Huguet, E.; Lachièze-Rey, M.; Renaud, Jacques[1]) Examples of Berezin-Toeplitz quantization: finite sets and unit interval. (English summary) **2005d:81197**
Godinho, Cresus F. L. *see* **Amorim, Ricardo et al.**, **2005c:81221**
Gopakumar, Rajesh (*with* Headrick, Matthew; Spradlin, Marcus) On noncommutative multi-solitons. (English summary) **2005b:81210**
Goswami, Debashish Twisted entire cyclic cohomology, J-L-O cocycles and equivariant spectral triples. (English summary) **2005f:58046**
Gracia-Bondía, José M. *see* **Gayral, Victor et al.**, **2005f:58045** *and* **Figueroa, Héctor**, **2005g:81200**
Gratus, J. A noncommutative geometric analysis of a sphere-torus topology change. (English summary) **2005f:53165**
Griguolo, Luca (*with* Seminara, Domenico) Classical solutions of the TEK model and noncommutative instantons in two dimensions. (English summary) **2005c:81228**
Grimstrup, Jesper Møller (*with* Jonsson, Thordur; Thorlacius, Lárus) The Seiberg-Witten map on the fuzzy sphere. (English summary) **2005c:81229**
Grisaru, Marcus T. (*with* Mazzanti, Liuba; Penati, Silvia; Tamassia, Laura) Some properties of the integrable noncommutative sine-Gordon system. (English summary) **2005b:81055**
Guimarães, M. S. (*with* Rodrigues, D. C.; Wotzasek, C.; Noronha, J. L.) On duality of the noncommutative extension of the Maxwell-Chern-Simons model. (English summary) **2005h:81403**
Hamanaka, Masashi (*with* Toda, Kouichi) Noncommutative Burgers equation. (English summary) **2005d:37143**
— (*with* Toda, Kouichi) Towards noncommutative integrable equations. (English summary)
Harikumar, E. (*with* Kumar, V. Sunil; Khare, Avinash) Supersymmetric quantum mechanics on non-commutative plane. (English summary) **2005c:81069**
Hasebe, Kazuki (*with* Kimura, Yusuke) Dimensional hierarchy in quantum Hall effects on fuzzy spheres. (English summary) **2005f:81302**
Hawkins, Eli Noncommutative rigidity. (English summary) **2005b:58011**
Headrick, Matthew *see* **Gopakumar, Rajesh et al.**, **2005b:81210**
Heng, Taihua *see* **Jing, Si-Cong et al.**, **2005i:81082**
Hofheinz, Frank Field theory on a non-commutative plane: a non-perturbative study. (English summary) **2005e:81247**
Hou, Bo-Yu (*with* Peng, Dan-Tao; Shi, Kang-Jie; Yue, Rui-Hong) Solitons on noncommutative torus as elliptic Calogero-Gaudin models, branes and Laughlin wave functions. (English summary) **2005b:81056**
Huguet, E. *see* **Gazeau, Jean-Pierre et al.**, **2005d:81197**
Imai, Takaaki (*with* Kitazawa, Yoshihisa; Takayama, Yastoshi; Tomino, Dan) Quantum corrections on fuzzy sphere. (English summary) **2005a:81246**
Iochum, Bruno (*with* Schücker, Thomas; Stephan, Christoph) On a classification of irreducible almost commutative geometries. (English summary) **2005j:58038**
— *see also* **Gayral, Victor et al.**, **2005f:58045**
Jackiw, Roman Noncommuting fields and non-abelian fluids. (English summary) **2005g:81331**
Jahn, Oliver *see* **Dolan, Brian P.**, **2005f:58007**
Jing, Si-Cong (*with* Zuo, Fen; Heng, Taihua) Deformation quantization of noncommutative quantum mechanics. (English summary) **2005i:81082**
— *see also* **Li, Yun**, **2005c:58010**
Jonsson, Thordur *see* **Grimstrup, Jesper Møller et al.**, **2005c:81229**
Kapustin, Anton Topological strings on noncommutative manifolds. (English summary) **2005f:81227**
Kellendonk, Johannes (*with* Schulz-Baldes, Hermann) Boundary maps for C^*-crossed products with $\mathbb{R}$ with an application to the quantum Hall effect. (English summary) **2005f:46131**
Khalkhali, Masoud (*with* Rangipour, Bahram) Para-Hopf algebroids and their cyclic cohomology. (English summary) **2005m:58018**
Khare, Avinash *see* **Harikumar, E. et al.**, **2005c:81069**
Khesin, Boris A. (*with* Levin, Andreĭ Mikhailovich; Ol'shanetskiĭ, M. A.) Bihamiltonian structures and quadratic algebras in hydrodynamics and on non-commutative torus. (English summary) **2005k:37139**
Khosravi, Amir (*with* Asgari, M. S.) Frames and bases in Hilbert modules over locally C^*-algebras. (English summary) **2005c:46085**
Kim, Hoil (*with* Lee, Chang-Yeong) Theta functions on noncommutative T^4. (English summary) **2005g:58017**
Kimura, Yusuke *see* **Hasebe, Kazuki**, **2005f:81302**
Kisil, Vladimir V. Meeting Descartes and Klein somewhere in a noncommutative space. (English summary) **2005b:43015**
Kitazawa, Yoshihisa *see* **Imai, Takaaki et al.**, **2005a:81246**
Klishevich, Sergei (*with* Plyushchaĭ, M. S.) Dolan-Grady relations and noncommutative quasi-exactly solvable systems. (English summary) **2005d:81373**
Kokado, Akira (*with* Okamura, Takashi; Saito, Takesi) Noncommutative quantum mechanics and the Seiberg-Witten map. (English summary) **2005f:81265**
Krähmer, Ulrich Dirac operators on quantum flag manifolds. (English summary) **2005b:58009**
Kumar, V. Sunil *see* **Harikumar, E. et al.**, **2005c:81069**
Kürkçüoğlu, Seçkin Non-linear sigma model on the fuzzy supersphere. (English summary) **2005a:81247**
Lachièze-Rey, M. *see* **Gazeau, Jean-Pierre et al.**, **2005d:81197**
Landsman, N. P. Quantum mechanics and representation theory: the new synthesis. (English summary) **2005b:46120**
Lazzarini, S. *see* **Bandelloni, G.**, **2005h:81156**
Léandre, Rémi Theory of distribution in the sense of Connes-Hida and Feynman path integral on a manifold. **2005a:58056**
— Infinite product manifolds and cyclic homology. (English summary) **2005k:58052**
Lee, Chang-Yeong *see* **Kim, Hoil**, **2005g:58017**
Lee, Ki-Myeong Chern-Simons solitons, chiral model, and (affine) Toda model on noncommutative space. (English summary) **2005h:81404**
Levin, Andreĭ Mikhailovich *see* **Khesin, Boris A. et al.**, **2005k:37139**

Li, Yun (*with* Jing, Si-Cong) Realization of the N(odd)-dimensional quantum Euclidean space by differential operators. (English summary) **2005c:58010**
Maceda, M. (*with* Madore, John) On the resolution of space-time singularities. II. (English summary) **2005k:83100**
Madore, John *see* **Maceda, M., 2005k:83100**
Man'ko, Vladimir I. (*with* Marmo, Giuseppe; Vitale, Patrizia) Phase space distributions and a duality symmetry for star products. (English summary) **2005h:53158**
Marmo, Giuseppe *see* **Man'ko, Vladimir I. et al., 2005h:53158**
Mazzanti, Liuba *see* **Grisaru, Marcus T. et al., 2005b:81055**
Medina, Julieta (*with* O'Connor, Denjoe) Scalar field theory on fuzzy S^4. (English summary) **2005b:81216**
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Mohrbach, Hervé *see* **Bérard, Alain, 2005g:81124**
Moreno, Enrique F. *see* **Correa, Diego H. et al., 2005f:81257**
Moretti, Valter Aspects of noncommutative Lorentzian geometry for globally hyperbolic spacetimes. (English summary) **2005c:58012**
Müller-Hoissen, Folkert *see* **Dimakis, Aristophanes, 2005b:58010** *and* **2005e:58005**
Nair, V. P. (*with* Randjbar-Daemi, Seif) Quantum Hall effect on S^3, edge states and fuzzy $S^3/\mathbf{Z}_2$. (English summary) **2005d:81397**
Nakayama, Ryuichi (*with* Shimono, Yusuke) Matrix configurations for spherical 4-branes and non-commutative structures on S^4. (English summary) **2005k:81343**
Namsrai, Kh. Noncommutative field theory. (English summary) **2005a:81252**
Ne'eman, Yuval Noncommutative geometry and superconnections for spontaneous gauge symmetry breakdown. (English summary) **2005a:81102**
Noronha, J. L. *see* **Guimarães, M. S. et al., 2005h:81403**
O'Connor, Denjoe *see* **Medina, Julieta, 2005b:81216**
Okamura, Takashi *see* **Kokado, Akira et al., 2005f:81265**
Ol'shanetskiĭ, M. A. The large N limits of integrable models. (English and Russian summaries) **2005g:37127**
— *see also* **Khesin, Boris A. et al., 2005k:37139**
Park, Inyong Y. *see* **Bars, Itzhak, 2005e:81161**
Pasqua, Andrea *see* **Bars, Itzhak et al., 2005g:81163**
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Piacitelli, Gherardo *see* **Bahns, Dorothea et al., 2005b:81207**
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Prástaro, Agostino ★ Quantized partial differential equations. **2005f:58036**
— Quantum super Yang-Mills equations: global existence and mass-gap. (English summary) **2005m:81203**
Randjbar-Daemi, Seif *see* **Nair, V. P., 2005d:81397**
Rangipour, Bahram *see* **Khalkhali, Masoud, 2005m:58018**
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Ritter, William Gordon Description of noncommutative theories and matrix models by Wightman functions. (English summary) **2005m:81194**
Robbins, Daniel (*with* Sethi, Savdeep) The UV/IR interplay in theories with space-time varying non-commutativity. (English summary) **2005a:81253**
Rodrigues, D. C. *see* **Guimarães, M. S. et al., 2005h:81403**
Romero, Juan M. (*with* Zamora, Adolfo) Snyder noncommutative space-time from two-time physics. (English summary) **2005i:83084**
Saidi, El Hassan NC geometry and fractional branes. (English summary) **2005b:81218**
Saito, Takesi *see* **Kokado, Akira et al., 2005f:81265**
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Shi, Kang-Jie *see* **Hou, Bo-Yu et al., 2005b:81056**
Shimono, Yusuke *see* **Nakayama, Ryuichi, 2005k:81343**
Silva, Guillermo A. *see* **Correa, Diego H. et al., 2005f:81257**
Sitarz, Andrzej Equivariant spectral triples. (English summary) **2005g:58058**
— Dynamical noncommutative spheres. (English summary) **2005c:58015**
— *see also* **Dąbrowski, Ludwik, 2005g:58056**
Sivasubramanian, Somu (*with* Castellani, Gianluca; Fabiano, N.; Widom, A.; Swain, John; Srivastava, Y. N.; Vitiello, Giuseppe) Quantum limits on pixel resolution from non-commutative photon coordinates. (English summary) **2005f:81304**
Smail, H. *see* **Djemaï, A. E. F., 2005g:81165**
Spradlin, Marcus *see* **Gopakumar, Rajesh et al., 2005b:81210**
Srivastava, Y. N. *see* **Sivasubramanian, Somu et al., 2005f:81304**
Stephan, Christoph *see* **Iochum, Bruno et al., 2005j:58038**
Swain, John *see* **Sivasubramanian, Somu et al., 2005f:81304**
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Tamassia, Laura *see* **Grisaru, Marcus T. et al., 2005b:81055**
Tanimura, Shogo Quantization on a torus without position operators. (English summary) **2005d:81214**
Tarlini, Marco *see* **Bonechi, Francesco et al., 2005a:58014** *and* **2005f:58005**
Thorlacius, Lárus *see* **Grimstrup, Jesper Møller et al., 2005c:81229**
Tian, Gu-ji Poisson bracket on Planck scale Hopf algebra. (English and Chinese summaries) **2005m:81177**
Toda, Kouichi *see* **Hamanaka, Masashi, 2005d:37143**
Tomino, Dan *see* **Imai, Takaaki et al., 2005a:81246**
Valtancoli, P. Space-time noncommutativity and the $(1+1)$ Higgs model. (English summary) **2005j:81111**
Várilly, J. C. *see* **Gayral, Victor et al., 2005f:58045**
Vitale, Patrizia *see* **Man'ko, Vladimir I. et al., 2005h:53158**
Vitiello, Giuseppe *see* **Sivasubramanian, Somu et al., 2005f:81304**
Wadati, Miki *see* **Wang, Ning[3], 2005d:37149**
Waldmann, Stefan Deformation of Hermitian vector bundles and non-commutative field theory. (English summary) **2005b:53147**
Wali, Kameshwar C. Matter fields on a two-sheeted space-time. (English summary) **2005k:83102**
Wang, Ning[3] (*with* Wadati, Miki) Noncommutative KP hierarchy and Hirota triple-product relations. (English summary) **2005d:37149**
Widom, A. *see* **Sivasubramanian, Somu et al., 2005f:81304**
Wotzasek, C. *see* **Guimarães, M. S. et al., 2005h:81403**
Yin, Qi-Jun (*with* Zhang, Jian-Zu) Coherent states of the deformed Heisenberg-Weyl algebra in non-commutative space. (English summary) **2005k:81127**
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Zamora, Adolfo *see* **Romero, Juan M., 2005i:83084**
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Arcaute, Elsa *see* **Lasenby, Anthony et al., 2005h:81178**
Doran, Chris *see* **Lasenby, Anthony et al., 2005h:81178**
Froggatt, Colin D. (*with* Nielsen, Holger B.) Derivation of Poincaré invariance from general quantum field theory. (English summary) **2005m:81170**
Lasenby, Anthony (*with* Doran, Chris; Arcaute, Elsa) Applications of geometric algebra in electromagnetism, quantum theory and gravity. (English summary) **2005h:81178**
Nielsen, Holger B. *see* **Froggatt, Colin D., 2005m:81170**
Tsonis, Athanasios Santilli's isostructures and applications to physics.

Items with secondary classifications in 81R99

Bishop, Robert C. Arrow of time in rigged Hilbert space quantum mechanics. (English summary) **2005h:81011**
Dragović, Branko G. p-adic and adelic quantum mechanics. (English summary) **2005g:81011**
Goldin, Gerald A. (*with* Majid, Shahn) On the Fock space for nonrelativistic anyon fields and braided tensor products. (English summary) **2005k:81141**
Joyce, William P. Braided premonoidal Mac Lane coherence. (English summary) **2005f:18008**
Majid, Shahn *see* **Goldin, Gerald A., 2005k:81141**
Santilli, Ruggero Maria Iso-, geno-, hyper-mathematics and their isoduals constructed from open physical, chemical, and biological problems. (English summary) (*see* **2005c:00013**)

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Alavi, S. A. Heisenberg quantization for systems of identical particles and the Pauli exclusion principle in noncommutative spaces. (English summary) **2005d:81209**
Anastopoulos, Charis Spin-statistics theorem and geometric quantization. (English summary) **2005c:81106**
Araki, Huzihiro (*with* Moriya, Hajime) Joint extension of states of subsystems for a CAR system. (English summary) **2005a:81105**
Błasiak, Paweł (*with* Penson, Karol A.; Solomon, Allan I.) The boson normal ordering problem and generalized Bell numbers. (English summary) **2005e:81112**
— (*with* Horzela, Andrzej; Penson, Karol A.; Solomon, Allan I.) Deformed bosons: combinatorics of normal ordering. (English summary) **2005k:81140**
— *see also* **Penson, Karol A. et al., 2005g:81162**
Brink, Lars The emergence of anticommuting coordinates and the Dirac-Ramond-Kostant operators. **2005j:81084**
Chou, Hsiang-Shun On the time-reversal invariance of the fundamental commutation relation. (English summary) **2005e:81113**
Duchamp, Gérard *see* **Penson, Karol A. et al., 2005g:81162**
Effros, Edward G. Matrix revolutions: an introduction to quantum variables for young mathematicians. **2005h:81179**
Fujii, Kazuyuki (*with* Suzuki, Tatsuo[2]) A new symmetric expression of Weyl ordering. (English summary) **2005e:81114**
Goldin, Gerald A. (*with* Majid, Shahn) On the Fock space for nonrelativistic anyon fields and braided tensor products. (English summary) **2005k:81141**
Golovnev, A. V. (*with* Prokhorov, L. V.) Uncertainty relations in curved spaces. (English summary) **2005b:81079**
Honegger, Reinhard (*with* Rieckers, Alfred) Partially classical states of a boson field. (English summary) **2005e:81115**
Horzela, Andrzej Physical consequences of noncanonical quantizations—an example of so(2, 1) oscillator. (English summary)
— *see also* **Penson, Karol A. et al., 2005g:81162** *and* **Błasiak, Paweł et al., 2005k:81140**
Kuckert, Bernd (*with* Mund, Jens) Spin & statistics in nonrelativistic quantum mechanics. II. (English summary) **2005m:81171**
Latimer, D. C. Quantizing the damped harmonic oscillator. (English summary) **2005i:81072**
Lohe, M. A. (*with* Thilagam, A.) Quantum mechanical models in fractional dimensions. (English summary) **2005g:81161**
Majid, Shahn *see* **Goldin, Gerald A., 2005k:81141**
Matsui, Taku (*with* Shimada, Yoshihito) Fock space and representation of some infinite dimensional groups. (English summary) **2005d:81210**
Mir-Kasimov, Rufat M. On classical and quantum q-oscillators in the relativistic theory. (English summary) **2005k:81142**
Mnatsakanova, M. N. (*with* Morchio, G.; Strocchi, F.; Vernov, Yu. S.) Representations of CCR algebras in Krein spaces of entire functions. (English summary) **2005d:81211**
— *see also* **Vernov, Yu. S., 2005c:81108**
Morchio, G. *see* **Mnatsakanova, M. N. et al., 2005d:81211**

Moriya, Hajime On the states having pure-state restrictions for a pair of regions with a non-trivial intersection. (English summary) **2005f:81122**
— *see also* **Araki, Huzihiro, 2005a:81105**
Mund, Jens *see* **Kuckert, Bernd, 2005m:81171**
Papadopoulos, Nikolaos A. (*with* Paschke, Mario; Reyes Lega, Andres Fernando; Scheck, Florian) The spin-statistics relation in nonrelativistic quantum mechanics and projective modules. (English summary) **2005h:81180**
Paschke, Mario *see* **Papadopoulos, Nikolaos A. et al., 2005h:81180**
Penson, Karol A. (*with* Błasiak, Paweł; Duchamp, Gérard; Horzela, Andrzej; Solomon, Allan I.) Hierarchical Dobiński-type relations via substitution and the moment problem. (English summary) **2005g:81162**
— *see also* **Błasiak, Paweł et al., 2005e:81112** *and* **2005k:81140**
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Surya, Sumati Cyclic statistics in three dimensions. (English summary) **2005c:81107**
Suzuki, Tatsuo[2] *see* **Fujii, Kazuyuki, 2005e:81114**
Thilagam, A. *see* **Lohe, M. A., 2005g:81161**
Vernov, Yu. S. (*with* Mnatsakanova, M. N.) Commutation relations in a space with an indefinite metric. (Russian. Russian summary) **2005c:81108**
— *see also* **Mnatsakanova, M. N. et al., 2005d:81211**

Items with secondary classifications in 81S05

Abdesselam, Abdelmalek The Grassmann-Berezin calculus and theorems of the matrix-tree type. (English summary) **2005h:05128**
Ali, Syed Twareque (*with* Roknizadeh, R.; Tavassoly, M. K.) Representations of coherent states in non-orthogonal bases. (English summary) **2005d:81192**
An, Jun-Hong (*with* Wang, Shun Jin; Luo, Hong-Gang) Entanglement production and decoherence-free subspace of two single-mode cavities embedded in a common environment. (English summary) **2005k:81382**
Bahn, Changsoo (*with* Ko, Chul Ki; Park, Yong Moon) Dirichlet forms and symmetric Markovian semigroups on $\mathbb{Z}_2$-graded von Neumann algebras. (English summary) **2005b:46145**
Bodurov, Theodore Particle-wave duality for spatially-localized complex fields. I. The assumptions and some consequences. (English summary) **2005d:81007**
— Particle-wave duality for spatially-localized complex fields. II. De Broglie-type relations. (English summary) **2005d:81008**
Borzov, V. V. (*with* Damaskinskiĭ, E. V.) Generalized coherent states for the q-oscillator associated with discrete Hermite q-polynomials. (Russian. English and Russian summaries) **2005h:81167**
Carmeli, Claudio (*with* Heinonen, Teiko; Toigo, Alessandro) Position and momentum observables on $\mathbb{R}$ and on $\mathbb{R}^3$. (English summary) **2005f:81082**
Cassam-Chenaï, Patrick (*with* Patras, Frédéric) The Hopf algebra of identical, fermionic particle systems—fundamental concepts and properties. (English summary) **2005d:82010**
Christensen, Jens Gerlach The uncertainty principle for operators determined by Lie groups. (English summary) **2005g:47044**
da Cruz, Wellington Fractal von Neumann entropy. (English summary) **2005m:82008**
Damaskinskiĭ, E. V. *see* **Borzov, V. V., 2005h:81167**
Gérard, Christian Théorie de la diffusion pour le modèle de Nelson et problème infrarouge. (English and French summaries) [Scattering theory for the Nelson model and infrared problem] **2005j:81107**
Greenberg, O. W. (*with* Mishra, Ashok Kumar) Path integrals for parastatistics. (English summary) **2005i:81085**
Harrison, Jonathan Michael (*with* Robbins, J. M.) Quantum indistinguishability from general representations of $SU(2n)$. (English summary) **2005d:81163**
Heinonen, Teiko *see* **Carmeli, Claudio et al., 2005f:81082**
Hiai, Fumio Free relative entropy and q-deformation theory. (English summary) **2005k:46176**
Īksanov, Oleksandr M. *see* **Proskurin, Daniil P., 2005c:46100**
Il'in, O. V. Oscillator-fermionic representations of simple Lie algebras of the series B_n. (Russian. Russian summary) **2005g:81134**
Isidro, José María[2] Bypassing Pauli's theorem. (English summary) **2005h:81022**
Jørgensen, Palle E. T. (*with* Proskurin, Daniil P.; Samoĭlenko, Yuriĭ S.) On C^*-algebras generated by pairs of q-commuting isometries. (English summary) **2005m:46093**
Kishore, R. (*with* Mishra, Ashok Kumar) Orthofermion statistics and its application to the infinite U Hubbard model. (English summary) **2005f:82018**
Ko, Chul Ki *see* **Bahn, Changsoo et al., 2005b:46145**
López-Bonilla, J. L. (*with* Ovando Zúñiga, Gerardo; Rivera-Rebolledo, J. M.) Ladder operators for the two-dimensional harmonic oscillator. (English summary) **2005g:81084**
Luo, Hong-Gang *see* **An, Jun-Hong et al., 2005k:81382**
Lust-Piquard, Françoise Riesz transforms on generalized Heisenberg groups and Riesz transforms associated to the CCR heat flow. (English summary) **2005g:43014**
Mishra, Ashok Kumar *see* **Kishore, R., 2005f:82018** *and* **Greenberg, O. W., 2005i:81085**
Narnhofer, Heide The Pauli principle for a quantum theory on T^2 with magnetic field. (English summary) **2005d:81182**
Natalini, Pierpaolo (*with* Ricci, Paolo Emilio) An extension of the Bell polynomials. (English summary) **2005d:11027**
Neretin, Yurii A. Structures of boson and fermion Fock spaces in the space of symmetric functions. (English summary) **2005d:81174**
Nessonov, N. I. Factor representations of the group $GL(\infty)$ and admissible representations of $GL(\infty)^\chi$. (Russian. English, Russian and Ukrainian summaries) **2005k:46183**
Ovando Zúñiga, Gerardo *see* **López-Bonilla, J. L. et al., 2005g:81084**
Palev, T. D. (*with* Stoilova, N. I.; Van der Jeugt, Joris) Microscopic and macroscopic properties of A-superstatistics. (English summary) **2005b:81052**
Park, Yong Moon *see* **Bahn, Changsoo et al., 2005b:46145**
Parthasarathy, Ragavachariar q-fermionic numbers and their roles in some physical problems. (English summary) **2005h:33042**
Patras, Frédéric *see* **Cassam-Chenaï, Patrick, 2005d:82010**
Proskurin, Daniil P. (*with* Īksanov, Oleksandr M.) The interpolation between the classical and monotone independence given by the twisted CCR. (English summary) **2005c:46100**
— *see also* **Jørgensen, Palle E. T. et al., 2005m:46093**
Rask, Ole On the affine metaplectic group. (English summary) **2005m:81131**
— On the exponentiation of the affine metaplectic Lie algebra. (English summary) **2005m:81132**
Rassias, John Michael On the Heisenberg-Weyl inequality. (English summary) **2005m:42010**
Ricci, Paolo Emilio *see* **Natalini, Pierpaolo, 2005d:11027**
Rivera-Rebolledo, J. M. *see* **López-Bonilla, J. L. et al., 2005g:81084**
Robbins, J. M. *see* **Harrison, Jonathan Michael, 2005d:81163**
Roknizadeh, R. (*with* Tavassoly, M. K.) Construction of the dual family of Gazeau-Klauder coherent states via temporally stable nonlinear coherent states. (English summary) **2005m:81156**
— *see also* **Ali, Syed Twareque et al., 2005d:81192**
Rosenberg, Jonathan A selective history of the Stone-von Neumann theorem. (English summary) **2005h:46001**
Samoĭlenko, Yuriĭ S. *see* **Jørgensen, Palle E. T. et al., 2005m:46093**
Śniady, Piotr Factoriality of Bożejko-Speicher von Neumann algebras. (English summary) **2005d:46130**
Soltani, Fethi Generalized Fock spaces and Weyl commutation relations for the Dunkl kernel. (English summary) **2005j:39016**
Speicher, Roland Non-commutative Brownian motions. (English summary) **2005a:46135**
Stoilova, N. I. *see* **Palev, T. D. et al., 2005b:81052**
Tavassoly, M. K. *see* **Ali, Syed Twareque et al., 2005d:81192** *and* **Roknizadeh, R., 2005m:81156**
Toigo, Alessandro *see* **Carmeli, Claudio et al., 2005f:81082**
Van der Jeugt, Joris *see* **Palev, T. D. et al., 2005b:81052**
Wang, Shun Jin *see* **An, Jun-Hong et al., 2005k:81382**
Weickert, Brendan Quantizations of linear self-maps of $\mathbb{R}^2$. (English summary) **2005k:47069**
Zhang, Jian-Zu Fractional angular momentum in non-commutative spaces. (English summary) **2005b:81078**

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Acatrinei, Ciprian Lagrangian versus quantization. (English summary) **2005a:81106**
Bars, Itzhak (*with* Deliduman, Cemsinan; Pasqua, Andrea; Zumino, Bruno) Superstar in noncommutative superspace via covariant quantization of the superparticle. (English summary) **2005g:81163**
Basini, Giuseppe (*with* Capozziello, Salvatore) A general covariant symplectic structure from conservation laws. (English summary) **2005m:81172**
Binz, Ernst (*with* Honegger, Reinhard; Rieckers, Alfred) Field-theoretic Weyl quantization as a strict and continuous deformation quantization. (English summary) **2005b:81080**
Bóna, Andrej The Dirac equation in geometric quantization. (English summary) **2005b:81081**
Capozziello, Salvatore *see* **Basini, Giuseppe, 2005m:81172**
Carroll, Robert Wayne Star products and integrability. (English summary) **2005a:81107**
Curtright, Thomas *see* **Zachos, Cosmas K., 2005j:81086**
Deliduman, Cemsinan *see* **Bars, Itzhak et al., 2005g:81163**
Dias, Nuno Costa (*with* Prata, João Nuno) Time dependent transformations in deformation quantization. (English summary) **2005g:81164**
Djemaï, A. E. F. (*with* Smail, H.) On quantum mechanics on noncommutative quantum phase space. (English summary) **2005g:81165**
Faessler, Amand *see* **Krivoruchenko, M. I. et al., 2005k:81143**
Fernandes, M. C. B. *see* **Oliveira, M. D. et al., 2005m:81176**
Fuchs, Christian *see* **Krivoruchenko, M. I. et al., 2005k:81143**
Garg, Anupam (*with* Stone, Michael) Bohr-Sommerfeld quantization of spin Hamiltonians. (English summary) **2005c:81109**
Godlewski, Piotr Quantization of anisotropic rigid body. (English summary) **2005a:81108**
Grigor'ev, O. N. (*with* Karasev, M. V.) Intrinsic quantum dynamics and its operator representation over a plane with a nonstandard connection. (English summary) **2005g:81166**
Henselder, Peter *see* **Hirshfeld, Allen C., 2005c:81110**
Hirshfeld, Allen C. (*with* Henselder, Peter) Star products and quantum groups in quantum mechanics and field theory. (English summary) **2005c:81110**
Honegger, Reinhard *see* **Binz, Ernst et al., 2005b:81080**
Iacob, Felix *see* **Puta, Mircea, 2005k:81144**
Isidro, José María[2] Quantum-mechanical dualities from classical phase space. (English summary) **2005d:81212**
— Quantum-mechanical dualities on the torus. (English summary) **2005d:81213**
— Quantum states from tangent vectors. (English summary) **2005i:81073**
— Complex moduli of physical quanta. (English summary) **2005m:81173**
Janyška, Josef (*with* Modugno, M.; Saller, D.) Covariant quantum mechanics and quantum symmetries. (English summary) **2005a:81109**
Karasev, M. V. (*with* Osborn, T. A.) Quantum magnetic algebra and magnetic curvature. (English summary) **2005i:81074**
— *see also* **Grigor'ev, O. N., 2005g:81166**
Kastrup, H. A. Quantization of the optical phase space $\mathcal{S}^{p2} = \{\varphi \bmod 2\pi, I > 0\}$ in terms of the group $SO^\uparrow(1,2)$. (English summary) **2005b:81082**
Khanna, F. C. *see* **Oliveira, M. D. et al., 2005m:81176**
Kisil, Vladimir V. p-mechanics and De Donder-Weyl theory. (English summary) **2005e:81116**
Krivoruchenko, M. I. (*with* Faessler, Amand; Raduta, A. A.; Fuchs, Christian) Gauge-invariant counterparts and quantization of systems under holonomic constraints.

(English summary) **2005k:81143**

Louko, Jorma (*with* Molgado, Alberto) Group averaging in the (p, q) oscillator representation of $SL(2, \mathbb{R})$. (English summary) **2005c:81111**

Măntoiu, Marius (*with* Purice, Radu) The magnetic Weyl calculus. (English summary) **2005j:81085**

Matsutani, Shigeki On the essential algebraic aspects of submanifold quantum mechanics. (English summary) **2005m:81174**

Modugno, M. *see* **Janyška, Josef et al., 2005a:81109**

Molgado, Alberto *see* **Louko, Jorma, 2005c:81111**

Montesinos-Velásquez, Merced (*with* Torres del Castillo, G. F.) Symplectic quantization, inequivalent quantum theories, and Heisenberg's principle of uncertainty. (English summary) **2005m:81175**

Oliveira, M. D. (*with* Fernandes, M. C. B.; Khanna, F. C.; Santana, A. E.; Vianna, J. D. M.) Symplectic quantum mechanics. (English summary) **2005m:81176**

Osborn, T. A. *see* **Karasev, M. V., 2005i:81074**

Pasqua, Andrea *see* **Bars, Itzhak et al., 2005g:81163**

Prata, João Nuno *see* **Dias, Nuno Costa, 2005g:81164**

Prvanović, Slobodan New ordering rule and Lie bracket of quantum mechanics. (English summary)

Purice, Radu *see* **Măntoiu, Marius, 2005j:81085**

Puta, Mircea (*with* Iacob, Felix) The quantization of the free rigid body. (English summary) **2005k:81144**

Raduta, A. A. *see* **Krivoruchenko, M. I. et al., 2005k:81143**

Rieckers, Alfred *see* **Binz, Ernst et al., 2005b:81080**

Saller, D. *see* **Janyška, Josef et al., 2005a:81109**

Santana, A. E. *see* **Oliveira, M. D. et al., 2005m:81176**

Smail, H. *see* **Djemaï, A. E. F., 2005g:81165**

Stone, Michael *see* **Garg, Anupam, 2005c:81109**

Tagirov, È. A. Quantum mechanics in a Riemannian space: a comparison of different approaches to the quantization of geodesic motion. (Russian. Russian summary) **2005c:81112**

Tanimura, Shogo Quantization on a torus without position operators. (English summary) **2005d:81214**

Tian, Gu-ji Poisson bracket on Planck scale Hopf algebra. (English and Chinese summaries) **2005m:81177**

Torres del Castillo, G. F. *see* **Montesinos-Velásquez, Merced, 2005m:81175**

Vianna, J. D. M. *see* **Oliveira, M. D. et al., 2005m:81176**

Zachos, Cosmas K. (*with* Curtright, Thomas) Branes, quantum Nambu brackets and the hydrogen atom. (English summary) **2005j:81086**

Zumino, Bruno *see* **Bars, Itzhak et al., 2005g:81163**

Items with secondary classifications in 81S10

Anastopoulos, Charis Spin-statistics theorem and geometric quantization. (English summary) **2005c:81106**

Baptista, J. M. Some special Kähler metrics on $SL(2, \mathbb{C})$ and their holomorphic quantization. (English summary) **2005g:53128**

Behr, W. (*with* Sykora, A.) NC Wilson lines and the inverse Seiberg-Witten map for non-degenerate star products. (English summary) **2005c:81225**

Berceanu, Ştefan (*with* Gheorghe, Cezar A.) Linear Hamiltonians on homogeneous Kähler manifolds of coherent states. (English summary) **2005d:81193**

Bieliavsky, Pierre (*with* Massar, Marc) Strict deformation quantization for actions of a class of symplectic Lie groups. (English summary) **2005e:53146**

Blasone, Massimo (*with* Jizba, Petr) Bateman's dual system revisited: quantization, geometric phase and relation with the ground-state energy of the linear harmonic oscillator. (English summary) **2005h:81143**

Błaszak, Maciej (*with* Szablikowski, Błażej M.) From dispersionless to soliton systems via Weyl-Moyal-like deformations. (English summary) **2005a:37115**

Bonneau, Philippe (*with* Gerstenhaber, Murray; Giaquinto, Anthony; Sternheimer, Daniel) Quantum groups and deformation quantization: explicit approaches and implicit aspects. (English summary) **2005k:53177**

Brodlie, Alastair (*with* Kisil, Vladimir V.) Observables and states in p-mechanics. (English summary) **2005k:81006**

Chadzitaskos, Goce (*with* Tolar, Jiří) Wigner quantization on the circle and $\mathbf{R}_+$. (English summary) **2005j:81093**

Chaturvedi, S. (*with* Ercolessi, E.; Marmo, Giuseppe; Morandi, G.; Mukunda, N.; Simon, Rajiah) Geometric phase for mixed states: a differential geometric approach. (English summary) **2005c:81071**

— *see also* **Mukunda, N. et al., 2005h:81186**

Dehghani, M. *see* **Mirza, Behrouz**

Dimakis, Aristophanes (*with* Müller-Hoissen, Folkert) Extension of noncommutative soliton hierarchies. (English summary) **2005e:81095**

Duval, C. (*with* El Gradechi, A. M.; Ovsienko, Valentin Yu.) Projectively and conformally invariant star-products. (English summary) **2005g:53186**

El Gradechi, A. M. *see* **Duval, C. et al., 2005g:53186**

Ercolessi, E. *see* **Chaturvedi, S. et al., 2005c:81071**

Esposito, Giampiero (*with* Marmo, Giuseppe; Sudarshan, E. C. George) ★ From classical to quantum mechanics. **2005d:81001**

Fioresi, R. On the dynamics of self-gravitating ellipsoid in n dimensions and its deformation quantization. (English summary) **2005m:53182**

Florentino, Carlos A. (*with* Matias, Pedro; Mourão, José M.; Nunes, João P.) Geometric quantization, complex structures and the coherent state transform. (English summary) **2005m:53179**

Frydryszak, Andrzej M. (*with* Tkachuk, Volodymyr M.) Aspects of pre-quantum description of deformed theories. (English summary) **2005c:81104**

Fujii, Kazuyuki (*with* Suzuki, Tatsuo[2]) A new symmetric expression of Weyl ordering. (English summary) **2005e:81114**

Garidi, T. *see* **Gazeau, Jean-Pierre et al., 2005d:81197**

Gazeau, Jean-Pierre (*with* Garidi, T.; Huguet, E.; Lachièze-Rey, M.; Renaud, Jacques[1]) Examples of Berezin-Toeplitz quantization: finite sets and unit interval. (English summary) **2005d:81197**

Gerstenhaber, Murray *see* **Bonneau, Philippe et al., 2005k:53177**

Gheorghe, Cezar A. *see* **Berceanu, Ştefan, 2005d:81193**

Ghosh, Subir Extended space duality in the non-commutative plane. (English summary) **2005f:81117**

Giachetta, G. (*with* Mangiarotti, L.; Sardanashvili, G. A.) Nonadiabatic holonomy operators in classical and quantum completely integrable systems. (English summary) **2005b:81054**

Giaquinto, Anthony *see* **Bonneau, Philippe et al., 2005k:53177**

Gorbunov, I. V. (*with* Lyakhovich, S. L.; Sharapov, A. A.) Wick quantization of cotangent bundles over Riemannian manifolds. (English summary) **2005j:53110**

Grange, Pascal Modified star-products beyond the large-B limit. (English summary) **2005b:81211**

Guha, Partha Moyal deformation of KdV and Virasoro action. (English summary) **2005i:17039**

Hall, Brian C. (*with* Mitchell, Jeffrey J.) Erratum: "Coherent states on spheres" [J. Math. Phys. **43** (2002), no. 3, 1211–1236; MR1885002 (2002m:81094)]. **Heng, Taihua** *see* **Jing, Si-Cong et al., 2005i:81082**

Herbst, Manfred (*with* Kling, Alexander; Kreuzer, Maximilian) Cyclicity of non-associative products on D-branes. (English summary) **2005g:81330**

Huguet, E. *see* **Gazeau, Jean-Pierre et al., 2005d:81197**

Jing, Si-Cong (*with* Zuo, Fen; Heng, Taihua) Deformation quantization of noncommutative quantum mechanics. (English summary) **2005i:81082**

Jizba, Petr *see* **Blasone, Massimo, 2005h:81143**

Khetselius, Dennis Noncommutative corrections to the MIC-Kepler Hamiltonian. (English summary) **2005k:81138**

Khvedelidze, A. M. On the Hamiltonian formulation of gauge theories in terms of physical variables. (English summary) **2005h:81216**

Kisil, Vladimir V. p-mechanics as a physical theory: an introduction. (English summary) **2005c:81078**

— *see also* **Brodlie, Alastair, 2005k:81006**

Kling, Alexander *see* **Herbst, Manfred et al., 2005g:81330**

Kontsevich, Maxim Deformation quantization of Poisson manifolds. (English summary) **2005i:53122**

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Lachièze-Rey, M. *see* **Gazeau, Jean-Pierre et al., 2005d:81197**

Lyakhovich, S. L. *see* **Gorbunov, I. V. et al., 2005j:53110**

Mangiarotti, L. *see* **Giachetta, G. et al., 2005b:81054**

Man′ko, Vladimir I. (*with* Marmo, Giuseppe; Vitale, Patrizia) Phase space distributions and a duality symmetry for star products. (English summary) **2005h:53158**

Marmo, Giuseppe *see* **Chaturvedi, S. et al., 2005c:81071**; **Esposito, Giampiero et al., 2005d:81001**; **Man′ko, Vladimir I. et al., 2005h:53158** *and* **Mukunda, N. et al., 2005h:81186**

Massar, Marc *see* **Bieliavsky, Pierre, 2005e:53146**

Matias, Pedro *see* **Florentino, Carlos A. et al., 2005m:53179**

Mirza, Behrouz (*with* Dehghani, M.) Noncommutative geometry and classical orbits of particles in a central force potential. (English summary)

Mitchell, Jeffrey J. *see* **Hall, Brian C.**

Mladenov, Ivaïlo M. A case study of quantization on curved surfaces: the mylar balloon. (English summary) **2005e:53145**

Morandi, G. *see* **Chaturvedi, S. et al., 2005c:81071**

Mourão, José M. *see* **Florentino, Carlos A. et al., 2005m:53179**

Mukunda, N. (*with* Marmo, Giuseppe; Zampini, A.; Chaturvedi, S.; Simon, Rajiah) Wigner-Weyl isomorphism for quantum mechanics on Lie groups. (English summary) **2005h:81186**

— *see also* **Chaturvedi, S. et al., 2005c:81071**

Müller-Hoissen, Folkert *see* **Dimakis, Aristophanes, 2005e:81095**

Namsrai, Kh. Noncommutative field theory. (English summary) **2005a:81252**

Nunes, João P. *see* **Florentino, Carlos A. et al., 2005m:53179**

Ovsienko, Valentin Yu. *see* **Duval, C. et al., 2005g:53186**

Renaud, Jacques[1] *see* **Gazeau, Jean-Pierre et al., 2005d:81197**

Rosyid, Muhammad Farchani On the relation between configuration and phase space quantizations. I. (English summary) **2005b:53144**

Sardanashvili, G. A. *see* **Giachetta, G. et al., 2005b:81054**

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Simon, Rajiah *see* **Chaturvedi, S. et al., 2005c:81071** *and* **Mukunda, N. et al., 2005h:81186**

Slavnov, Sergey Coherent phase spaces. Semiclassical semantics. (English summary) **2005h:03114**

Sternheimer, Daniel *see* **Bonneau, Philippe et al., 2005k:53177**

Sudarshan, E. C. George *see* **Esposito, Giampiero et al., 2005d:81001**

Suzuki, Tatsuo[2] *see* **Fujii, Kazuyuki, 2005e:81114**

Sykora, A. *see* **Behr, W., 2005c:81225**

Szablikowski, Błażej M. *see* **Błaszak, Maciej, 2005a:37115**

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Zampini, A. *see* **Mukunda, N. et al., 2005h:81186**

Zuo, Fen *see* **Jing, Si-Cong et al., 2005i:81082**

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Albanese, Claudio (*with* Lawi, Stephan) Time quantization and q-deformations. (English summary) **2005a:81110**

Da Prato, Giuseppe (*with* Debussche, Arnaud) Strong solutions to the stochastic quantization equations. (English summary) **2005e:81117**

Debussche, Arnaud *see* **Da Prato, Giuseppe, 2005e:81117**

Intravaia, F. *see* **Maniscalco, S. et al., 2005g:81167**

Lawi, Stephan *see* **Albanese, Claudio, 2005a:81110**

Maniscalco, S. (*with* Piilo, J.; Intravaia, F.; Petruccione, F.; Messina, Antonio[2]) Lindblad- and non-Lindblad-type dynamics of a quantum Brownian particle. (English summary) **2005g:81167**

Messina, Antonio[2] *see* **Maniscalco, S. et al., 2005g:81167**
Petruccione, F. *see* **Maniscalco, S. et al., 2005g:81167**
Piilo, J. *see* **Maniscalco, S. et al., 2005g:81167**

Items with secondary classifications in 81S20

Anastopoulos, Charis Spin-statistics theorem and geometric quantization. (English summary) **2005c:81106**
Georgii, Hans-Otto *see* **Tumulka, Roderich, 2005m:81329**
Hüffel, Helmuth (*with* Kelnhofer, Gerald) QED revisited: proving equivalence between path integral and stochastic quantization. (English summary) **2005d:81383**
Kelnhofer, Gerald *see* **Hüffel, Helmuth, 2005d:81383**
Mann, Robert B. *see* **Ord, G. N., 2005c:81034**
Nakazawa, Naohito $\mathcal{N} = 1$ supersymmetric Yang-Mills theory in Itô calculus. (English summary) **2005e:81236**
— Background field method in stochastic quantization of $\mathcal{N} = 1$ supersymmetric Yang-Mills theory. (English summary) **2005g:81312**
Ord, G. N. (*with* Mann, Robert B.) Entwined pairs and Schrödinger's equation. (English summary) **2005c:81034**
Tumulka, Roderich (*with* Georgii, Hans-Otto) Some jump processes in quantum field theory. (English summary) **2005m:81329**

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Accardi, Luidgi (*with* Nahni, Marcolino) Interacting Fock spaces and orthogonal polynomials in several variables. (English summary) **2005h:81181**
— (*with* Amosov, G. G.; Franz, Uwe[1]) Second quantized automorphisms of the renormalized square of white noise (RSWN) algebra. (English summary) **2005d:81215**
— (*with* Ben Ghorbal, Anis; Obata, Nobuaki) Monotone independence, comb graphs and Bose-Einstein condensation. (English summary) **2005f:81123**
— (*with* Lu, Yun Gang) Free probability and quantum electrodynamics. (English summary) **2005f:81124**
Aharonov, Dorit (*with* Ambainis, Andris; Kempe, Julia; Vazirani, Umesh V.) Quantum walks on graphs. (English summary) (*see* **2005j:68008**)
Ambainis, Andris (*with* Bach, Eric; Nayak, Ashwin; Vishwanath, Ashvin; Watrous, John) One-dimensional quantum walks. (English summary) (*see* **2005j:68008**)
— A new protocol and lower bounds for quantum coin flipping. (English summary) (*see* **2005j:68008**)
— *see also* **Aharonov, Dorit et al., (2005j:68008)**
Amosov, G. G. (*with* Man′ko, Vladimir I.) Tomographic quantum measures for many degrees of freedom and the central limit theorem. (English summary) **2005i:81075**
— *see also* **Accardi, Luidgi et al., 2005d:81215**
Applebaum, David (*with* Bhat, B. V. Rajarama; Kustermans, Johan; Lindsay, J. Martin) ★ Quantum independent increment processes. I. **2005j:81087**
Arimitsu, Toshihico Can "quantumness" be an origin of dissipation? (English summary) **2005d:81216**
— Quantum stochastic differential equations in view of non-equilibrium thermo field dynamics. (English summary) **2005a:81111**
— *see also* **Kobryn, A. E. et al., 2005h:81183**
Aslangul, Claude Quantum dynamics of a particle with a spin-dependent velocity. (English summary) **2005j:81088**
Attal, Stéphane Extensions of quantum stochastic calculus. **2005c:81113**
— (*with* Coquio, Agnès) Quantum stopping times and quasi-left continuity. (English and French summaries) **2005k:81145**
— (*with* Lindsay, J. Martin) Quantum stochastic calculus with maximal operator domains. (English summary) **2005f:81125**
— (*with* Pautrat, Yan) From $(n+1)$-level atom chains to n-dimensional noises. (English and French summaries) **2005m:81178**
Ayoola, E. O. Continuous selections of solution sets of Lipschitzian quantum stochastic differential inclusions. (English summary) **2005i:81076**
— (*with* Gbolagade, A. W.) Further results on the existence, uniqueness and stability of strong solutions of quantum stochastic differential equations. (English summary) **2005m:81179**
Bach, Eric *see* **Ambainis, Andris et al., (2005j:68008)**
Belavkin, Vyacheslav P. Quantum Itô algebras: axioms, representations, decompositions. (English summary) **2005c:81114**
Belton, Alexander C. R. An isomorphism of quantum semimartingale algebras. (English summary) **2005i:81077**
Ben Ghorbal, Anis (*with* Schürmann, Michael) Quantum stochastic calculus on Boolean Fock space. (English summary) **2005j:81089**
— *see also* **Accardi, Luidgi et al., 2005f:81123**
Bhat, B. V. Rajarama *see* **Applebaum, David et al., 2005j:81087**
Bjelaković, Igor (*with* Krüger, Tyll; Siegmund-Schultze, Rainer; Szkoła, Arleta) The Shannon-McMillan theorem for ergodic quantum lattice systems. (English summary) **2005g:81168**
Carbone, Raffaella (*with* Fagnola, Franco) Exponential ergodicity of classical and quantum Markov birth and death semigroups. (English summary) **2005m:81180**
Chebotarev, A. M. A priori estimates for quantum dynamic semigroups. (Russian. Russian summary) **2005a:81112**
Cheng, Chao-Jung (*with* Hwang, Chi-Chuan; Liao, Teh-Lu; Chou, Gen-Liang) Optimal control of quantum systems: a projection approach. (English summary) **2005i:81078**
Chou, Gen-Liang *see* **Cheng, Chao-Jung et al., 2005i:81078**
Coquio, Agnès *see* **Attal, Stéphane, 2005k:81145**
Enriquez, Benjamin Comment on: "Double product integrals and Enriquez quantization of Lie bialgebras. I. The quasitriangular identities" [J. Math. Phys. **45** (2004), no. 5, 2090–2105; MR2054150 (2005d:81219)] by R. L. Hudson and S. Pulmannová. **2005d:81220**
Fagnola, Franco H-P quantum stochastic differential equations. (English summary) **2005c:81115**
— Quantum stochastic differential equations. (English summary) **2005b:81083**
— *see also* **Carbone, Raffaella, 2005m:81180**
Franz, Uwe[1] What is stochastic independence? (English summary) **2005g:81169**
— (*with* Privault, Nicolas) Quasi-invariance formulas for components of quantum Lévy processes. (English summary) **2005c:81116**
— *see also* **Accardi, Luidgi et al., 2005d:81215** *and* **Applebaum, David et al., 2005j:81087**
García Corte, Julio César (*with* Quezada Batalla, Roberto) Conditions for nonconservativity in quantum dynamical semigroups. (English summary) **2005e:81118**
Gbolagade, A. W. *see* **Ayoola, E. O., 2005m:81179**
Gohm, Rolf Kümmerer-Maassen-scattering theory and entanglement. (English summary) **2005d:81217**
Goswami, Debashish (*with* Lindsay, J. Martin; Sinha, Kalyan B.; Wills, Stephen J.) Dilation of Markovian cocycles on a von Neumann algebra. (English summary) **2005k:81146**
Gottlieb, Alex D. (*with* Janson, Svante; Scudo, Petra F.) Convergence of coined quantum walks on $\mathbb{R}^d$. (English summary) **2005m:81181**
Gough, John Edward Quantum white noises and the master equation for Gaussian reference states. (English summary) **2005j:81090**
— Spectral decomposition of stationary, in the wide sense, quantum random processes. (Russian) **2005m:81182**
— Holevo-ordering and the continuous-time limit for open Floquet dynamics. (English summary) **2005f:81126**
— (*with* Sobolev, Andrei) Stochastic Schrödinger equations as limit of discrete filtering. (English summary) **2005h:81182**
Hashimoto, Yukihiro Creation-annihilation processes on cellar complecies. (English summary) [Creation-annihilation processes on celluar complexes] **2005e:81119**
Hayashi, Masahito Quantum estimations and quantum central limit theorems. (Japanese) **2005d:81218**
Hayashi, Toshiharu *see* **Kobryn, A. E. et al., 2005h:81183**
Hida, Takeyuki White noise theory and physics. (English summary) **2005g:81170**
(Hora, Akihito) *see* **Non-commutativity, infinite-dimensionality and probability at the crossroads, 2005a:81119**
Hudson, Robin Lyth An introduction to quantum stochastic calculus and some of its applications. (English summary) **2005i:81079**
— (*with* Pulmannová, Sylvia) Double product integrals and Enriquez quantization of Lie bialgebras. I. The quasitriangular identities. (English summary) **2005d:81219**
— Itô versus Woronowicz calculus in Itô Hopf algebras. (English summary) **2005e:81120**
— *see also* **Enriquez, Benjamin, 2005d:81220**
Hwang, Chi-Chuan *see* **Cheng, Chao-Jung et al., 2005i:81078**
Janson, Svante *see* **Gottlieb, Alex D. et al., 2005m:81181**
Ji, Un Cig (*with* Obata, Nobuaki) Quantum white noise calculus. (English summary) **2005c:81117**
Kempe, Julia *see* **Aharonov, Dorit et al., (2005j:68008)**
Kholevo, Aleksandr Semenovich Quantum and classical stochastic calculus. **2005c:81118**
Kobryn, A. E. (*with* Hayashi, Toshiharu; Arimitsu, Toshihico) Quantum stochastic differential equations for boson and fermion systems—method of non-equilibrium thermo field dynamics. (English summary) **2005h:81183**
Krüger, Tyll *see* **Bjelaković, Igor et al., 2005g:81168**
Kümmerer, Burkhard Stationary processes in quantum probability. (English summary) **2005h:81184**
Kustermans, Johan *see* **Applebaum, David et al., 2005j:81087**
Liao, Teh-Lu *see* **Cheng, Chao-Jung et al., 2005i:81078**
Lindsay, J. Martin (*with* Wills, Stephen J.) Multiplicativity via a hat trick. (English summary) **2005c:81119**
— Integral-sum kernel operators. (English summary) **2005a:81113**
— *see also* **Attal, Stéphane, 2005f:81125**; **Applebaum, David et al., 2005j:81087** *and* **Goswami, Debashish et al., 2005k:81146**
Lu, Yun Gang *see* **Accardi, Luidgi, 2005f:81124**
Majewski, Adam W. On quantum stochastic dynamics. Some recent developments. (English summary) **2005k:81147**
Man′ko, Vladimir I. *see* **Amosov, G. G., 2005i:81075**
(Matsui, Taku) *see* **Non-commutativity, infinite-dimensionality and probability at the crossroads, 2005a:81119**
Mohammed, Abdulrahman A. A. Stopping and stochastic integrals as closable operators. (English summary) **2005f:81127**
Moore, Cristopher (*with* Russell, Alexander) Quantum walks on the hypercube. (English summary) **2005a:81114**
Nahni, Marcolino *see* **Accardi, Luidgi, 2005h:81181**
Nayak, Ashwin *see* **Ambainis, Andris et al., (2005j:68008)**
Obata, Nobuaki *see* **Non-commutativity, infinite-dimensionality and probability at the crossroads, 2005a:81119**; **Ji, Un Cig, 2005c:81117** *and* **Accardi, Luidgi et al., 2005f:81123**
Ohno, Hiromichi Translation-invariant quantum Markov states. (English summary) **2005b:81084**
Parthasarathy, Kalyanapuram Rangachari Quantum probability and strong quantum Markov processes. **2005a:81115**
Pautrat, Yan *see* **Attal, Stéphane, 2005m:81178**
Polyakov, A. V. A nonlinear evolution equation for the mean occupation numbers in a Maslov probability space. (Russian. Russian summary) **2005f:81128**
Privault, Nicolas *see* **Franz, Uwe[1], 2005c:81116**
Proskurin, Daniil P. On monotone independence families of operators. (English summary) **2005c:81120**
Pulmannová, Sylvia *see* **Hudson, Robin Lyth, 2005d:81219** *and* **Enriquez, Benjamin, 2005d:81220**
Quezada Batalla, Roberto *see* **García Corte, Julio César, 2005e:81118**
Rebolledo, Rolando Limit problems for quantum dynamical semigroups—inspired by scattering theory. (English summary) **2005a:81116**
— Open quantum systems and classical trajectories. (English summary) **2005j:81091**
Russell, Alexander *see* **Moore, Cristopher, 2005a:81114**
Schürmann, Michael *see* **Applebaum, David et al., 2005j:81087** *and* **Ben Ghorbal, Anis, 2005j:81089**
Scudo, Petra F. *see* **Gottlieb, Alex D. et al., 2005m:81181**
Şerbănescu, Cristina The identification of the fermion stochastic integral of simple processes. (English summary) **2005a:81117**

Siegmund-Schultze, Rainer *see* **Bjelaković, Igor et al., 2005g:81168**
Sinha, Kalyan B. Quantum stop times. **2005d:81221**
— *see also* **Goswami, Debashish et al., 2005k:81146**
Sobolev, Andrei *see* **Gough, John Edward, 2005h:81182**
Szkoła, Arleta *see* **Bjelaković, Igor et al., 2005g:81168**
Vazirani, Umesh V. *see* **Aharonov, Dorit et al., (2005j:68008)**
Vishwanath, Ashvin *see* **Ambainis, Andris et al., (2005j:68008)**
von Waldenfels, Wilhelm Continuous kernel processes in quantum probability. (English summary) **2005a:81118**
Wang, Cai Shi *see* **Wang, Xiang Jun[2], 2005i:81080**
Wang, Xiang Jun[2] (*with* Wang, Cai Shi) A characterization of the differentiability of generalized operator-valued functions. (Chinese. English and Chinese summaries) **2005i:81080**
Watrous, John *see* **Ambainis, Andris et al., (2005j:68008)**
Wills, Stephen J. *see* **Lindsay, J. Martin, 2005c:81119** *and* **Goswami, Debashish et al., 2005k:81146**

Items listed otherwise than by author

Greifswald *see* **Applebaum, David et al., 2005j:81087**
Kyoto ★ Non-commutativity, infinite-dimensionality and probability at the crossroads. **2005a:81119**
Lecture Notes in Mathematics *see* **Applebaum, David et al., 2005j:81087**
Non-commutativity, infinite-dimensionality and probability at the crossroads ★ Non-commutativity, infinite-dimensionality and probability at the crossroads. **2005a:81119**
Quantum independent increment processes. I *see* **Applebaum, David et al., 2005j:81087**

Items with secondary classifications in 81S25

Accardi, Luidgi (*with* Kozyrev, Sergei) Superfluidity in the stochastic limit. (English summary) **2005f:82137**
Adamian, G. G. *see* **Kanokov, Z. et al., 2005k:82054** *and* **Palchikov, Yu. V. et al., 2005k:82055**
Amosov, G. G. On Markovian cocycle perturbations in classical and quantum probability. (English summary) **2005f:46118**
Anastopoulos, Charis Quantum versus stochastic processes and the role of complex numbers. (English summary) **2005b:81001**
Antonenko, N. V. *see* **Kanokov, Z. et al., 2005k:82054** *and* **Palchikov, Yu. V. et al., 2005k:82055**
Asai, Nobuhiro (*with* Kubo, Izumi; Kuo, Hui-Hsiung) Generating functions of orthogonal polynomials and Szegő-Jacobi parameters. (English summary) **2005g:42057**
Ayoola, E. O. Error estimates for discretized quantum stochastic differential inclusions. (English summary) **2005a:60109**
Bach, Eric (*with* Coppersmith, Susan; Goldschen, Marcel Paz; Joynt, Robert; Watrous, John) One-dimensional quantum walks with absorbing boundaries. (English summary) **2005h:81087**
Bahn, Changsoo (*with* Ko, Chul Ki; Park, Yong Moon) Dirichlet forms and symmetric Markovian semigroups on $\mathbb{Z}_2$-graded von Neumann algebras. (English summary) **2005b:46145**
Beltrametti, Enrico G. Quantum logic and quantum probability. (*see* **2005a:03010**)
Bhat, B. V. Rajarama Atomic dilations. (English summary) **2005b:46150**
Bryc, Włodzimierz (*with* Kaftal, Victor) Strong mixing coefficients for non-commutative Gaussian processes. (English summary) **2005b:46141**
Burić, Nikola Phase-space dynamical model of an open system of interacting q-bits. (English summary) **2005i:81026**
Cecchini, Carlo Conditional expectations on von Neumann algebras. **2005a:46131**
Chew, Tuan-Seng *see* **Wang, Cai Shi et al., 2005e:60153**
Collins, Benoît Martin boundary theory of some quantum random walks. (English and French summaries) **2005m:31021**
Comman, Henri (*with* Fagnola, Franco) C^*-algebras of quadratures. (English summary) **2005i:46060**
Coppersmith, Susan *see* **Bach, Eric et al., 2005h:81087**
Fagnola, Franco Quantum Markov semigroups: structure and asymptotics. (English summary) **2005d:46148**
— *see also* **Comman, Henri, 2005i:46060**
Fannes, Mark (*with* Haegeman, Bart) Quantum dynamical entropies for classical stochastic systems. (English summary) **2005a:82083**
Feinsilver, Philip (*with* Kocik, Jerzy; Schott, René) Representations of the Schrödinger algebra and Appell systems. (English summary) **2005a:81086**
Fidaleo, Francesco Infinite dimensional entangled Markov chains. (English summary) **2005i:46078**
Gohm, Rolf ★ Noncommutative stationary processes. (English summary) **2005f:46119**
Goldschen, Marcel Paz *see* **Bach, Eric et al., 2005h:81087**
Gough, John Edward The open XY model. (English summary) **2005e:82069**
Goychuk, Igor Quantum dynamics with non-Markovian fluctuating parameters. (English summary) **2005j:82046**
Haegeman, Bart *see* **Fannes, Mark, 2005a:82083**
Hamhalter, Jan States and structure of von Neumann algebras. (English summary) **2005g:46116**
Hiai, Fumio Free relative entropy and q-deformation theory. (English summary) **2005k:46176**
Hora, Akihito Noncommutative aspect of central limit theorem for the irreducible characters of the symmetric groups. (English summary) **2005e:46125**
Huang, Zhiyuan *see* **Wang, Cai Shi et al., 2005e:60153**
Imai, Hiroshi *see* **Yamasaki, Tomohiro et al., 2005c:81042**
Jadczyk, A. Piecewise deterministic quantum dynamics and quantum fractals on the Poincaré disk. (English summary) **2005g:82077**
Ji, Un Cig (*with* Obata, Nobuaki) A role of Bargmann-Segal spaces in characterization and expansion of operators on Fock space. (English summary) **2005b:46076**
Jørgensen, Palle E. T. The existence problem for dynamics of dissipative systems in quantum probability. (English summary) **2005h:82074**
Joynt, Robert *see* **Bach, Eric et al., 2005h:81087**
Kaftal, Victor *see* **Bryc, Włodzimierz, 2005b:46141**
Kanokov, Z. (*with* Palchikov, Yu. V.; Adamian, G. G.; Antonenko, N. V.; Scheid, Werner) Non-Markovian dynamics of quantum systems. I. Formalism and transport coefficients. (English summary) **2005k:82054**
— *see also* **Palchikov, Yu. V. et al., 2005k:82055**
Kempe, Julia Discrete quantum walks hit exponentially faster. (English summary) **2005m:81063**
(Khrennikov, Andrei Yu.) *see* **Foundations of probability and physics, 2005c:81006**
Ko, Chul Ki *see* **Bahn, Changsoo et al., 2005b:46145**
Kobayashi, Hirotada *see* **Yamasaki, Tomohiro et al., 2005c:81042**
Kocik, Jerzy *see* **Feinsilver, Philip et al., 2005a:81086**
Kozyrev, Sergei *see* **Accardi, Luidgi, 2005f:82137**
Kubo, Izumi *see* **Asai, Nobuhiro et al., 2005g:42057**
Kümmerer, Burkhard (*with* Maassen, H.) A pathwise ergodic theorem for quantum trajectories. (English summary) **2005j:82048**
Kuo, Hui-Hsiung *see* **Asai, Nobuhiro et al., 2005g:42057**
Kuperberg, Greg A tracial quantum central limit theorem. (English summary) **2005k:46171**
Kurtz, David ★ Contribution à l'étude des martingales d'Azéma. (French) [Contribution to the study of Azéma algebras] **2005h:60007**
Lehner, Franz Cumulants in noncommutative probability theory. I. Noncommutative exchangeability systems. (English summary) **2005h:46091**
Lenczewski, Romuald Reduction of free independence to tensor independence. (English summary) **2005k:46179**
Lubenets, E. R. Quantum stochastics. The new approach to the description of quantum measurements. (English summary) **2005i:81017**
Lubnauer, Katarzyna Quantum limit theorems. (English summary) **2005f:46120**
Lytvynov, Eugene The square of white noise as a Jacobi field. (English summary) **2005m:60152**
Maassen, H. *see* **Kümmerer, Burkhard, 2005j:82048**
Markiewicz, Daniel Quantized convolution semigroups. (English summary) **2005c:46098**
Mazza, Christian Simply generated trees, B-series and Wigner processes. (English summary) **2005k:05019**
Młotkowski, Wojciech Limit theorems in Λ-Boolean probability. (English summary) **2005e:46127**
Mora, Carlos M. Numerical simulation of stochastic evolution equations associated to quantum Markov semigroups. (English summary) **2005b:60171**
Muhly, Paul S. (*with* Solel, Baruch) A model for quantum Markov semigroups. (English summary) **2005f:46123**
Mukhamedov, Farrukh On the decomposition of quantum quadratic stochastic processes into layer-Markov processes defined on von Neumann algebras. (Russian. Russian summary) **2005g:46121**
Muraki, Naofumi The five independences as natural products. (English summary) **2005h:46093**
Narnhofer, Heide Quantum K-systems and their abelian models. (English summary) **2005m:81143**
Obata, Nobuaki Quantum probabilistic approach to spectral analysis of star graphs. (English summary) **2005a:05140**
— *see also* **Ji, Un Cig, 2005b:46076**
Ohno, Hiromichi Extendability of generalized quantum Markov chains on gauge invariant C^*-algebras. (English summary) **2005k:46184**
Oravecz, Ferenc Minimality of the Boolean and the Fermi convolutions. (English summary) **2005d:05019**
Palchikov, Yu. V. (*with* Kanokov, Z.; Adamian, G. G.; Antonenko, N. V.; Scheid, Werner) Non-Markovian dynamics of quantum systems. II. Decay rate, capture, and pure states. (English summary) **2005k:82055**
— *see also* **Kanokov, Z. et al., 2005k:82054**
Park, Yong Moon *see* **Bahn, Changsoo et al., 2005b:46145**
Pathmanathan, S. (*with* Vincent-Smith, G. F.) Fock space and the Poisson process. **2005k:60126**
Pechen′, A. N. Quantum stochastic equation for a test particle interacting with a dilute Bose gas. (English summary) **2005b:82057**
Rogers, Alice Supersymmetry and Brownian motion on supermanifolds. (English summary) **2005k:58066**
Scheid, Werner *see* **Kanokov, Z. et al., 2005k:82054** *and* **Palchikov, Yu. V. et al., 2005k:82055**
Schott, René *see* **Feinsilver, Philip et al., 2005a:81086**
Shor, Peter W. Equivalence of additivity questions in quantum information theory. (English summary) **2005e:81033a**
— *see also* **Errata: "Equivalence of additivity questions in quantum information theory", 2005e:81033b**
Solel, Baruch *see* **Muhly, Paul S., 2005f:46123**
Speicher, Roland Non-commutative Brownian motions. (English summary) **2005a:46135**
Strunz, Walter T. Finite temperature dynamics of the total state in an open system model. (English summary) **2005m:82095**
Suchanecki, Z. Explicit form of the time operator of a Gaussian stationary process. (English summary) **2005i:60072**
Vincent-Smith, G. F. *see* **Pathmanathan, S., 2005k:60126**
Wang, Cai Shi (*with* Huang, Zhiyuan; Chew, Tuan-Seng) Quantum integral equations with kernels of quantum white noise in space and time. (English summary) **2005e:60153**
Watrous, John *see* **Bach, Eric et al., 2005h:81087**
Yamasaki, Tomohiro (*with* Kobayashi, Hirotada; Imai, Hiroshi) An analysis of absorbing times of quantum walks. (English summary) **2005c:81042**
Yoshida, Hiroaki[1] Remarks on the s-free convolution. (English summary) **2005d:46141**

Items listed otherwise than by author

Errata:
"Equivalence of additivity questions in quantum information theory" Erratum: "Equivalence of additivity questions in quantum information theory" [Comm. Math. Phys. **246** (2004), no. 3, 453–472; MR2053939 (2005e:81033a)] by P. W. Shor. **2005e:81033b**

Foundations of probability and physics ★ Foundations of probability and physics. **2005c:81006**
Lecture Notes in Mathematics *see* **Gohm, Rolf**, **2005f:46119**
Växjö ★ Foundations of probability and physics. **2005c:81006**

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Abdalla, M. Sebawe (*with* Obada, Abdel-Shafy F.) Nonclassical properties for some intermediate states. (English summary) **2005a:81120**
— (*with* Leach, P. G. L.) Wigner functions for time-dependent coupled linear oscillators via linear and quadratic invariant processes. (English summary) **2005j:81092**
AL-Laithy, M. A. *see* **Zayed, E. M. E. et al., 2005i:81083**
Anastopoulos, Charis (*with* Savvidou, Ntina) The role of phase space geometry in Heisenberg's uncertainty relation. (English summary) **2005a:81121**
Bal, Guillaume (*with* Komorowski, Tomasz; Ryzhik, Leonid) Self-averaging of Wigner transforms in random media. (English summary) **2005b:81085**
Błasiak, Paweł (*with* Horzela, Andrzej) Quantization of alternative Hamiltonians. (English summary) **2005d:81222**
— (*with* Horzela, Andrzej; Kapuścik, Edward) Alternative Hamiltonians and Wigner quantization. (English summary) **2005g:81171**
Bracken, A. J. *see* **Wood, J. G., 2005m:81186**
Chadzitaskos, Goce (*with* Tolar, Jiří) Wigner quantization on the circle and $\mathbf{R}_+$. (English summary) **2005j:81093**
Chaturvedi, S. *see* **Mukunda, N. et al., 2005h:81186**
Chruściński, Dariusz (*with* Młodawski, Krzysztof) Wigner function and Schrödinger equation in phase-space representation. (English summary) **2005m:81183**
Crasser, O. (*with* Mack, Holger; Schleich, W. P.) Could Fresnel optics be quantum mechanics in phase space? (English summary) **2005a:81122**
Daoud, A. S. *see* **Zayed, E. M. E. et al., 2005i:81083**
Dias, Nuno Costa (*with* Prata, João Nuno) Formal solutions of stargenvalue equations. (English summary) **2005k:81148**
— (*with* Prata, João Nuno) Admissible states in quantum phase space. (English summary) **2005h:81185**
Dong, Shi-Hai (*with* Sun, Guo-Hua; Yu, Jiang) The Wigner function for a quantum system with an infinitely deep square-well potential. (English summary) **2005f:81129**
Fan, Hong Yi[1] Applications of Weyl ordered two-mode Wigner operator for quantum mechanical entangled system. (English summary) **2005a:81123**
Fermanian Kammerer, Clotilde Wigner measures and molecular propagation through generic energy level crossings. (English summary) **2005k:81149**
Galetti, D. (*with* Mizrahi, Salomon S.; Ruzzi, M.) The Wigner function associated with the Rogers-Szegő polynomials. (English summary) **2005f:81130**
García-Palacios, J. L. (*with* Zueco, D.) The Caldeira-Leggett quantum master equation in Wigner phase space: continued-fraction solution and application to Brownian motion in periodic potentials. (English summary) **2005k:81150**
Gill, Tepper L. *see* **Lindesay, James**, **2005g:81172**
de Gosson, Maurice A. Extended Weyl calculus and application to the phase-space Schrödinger equation. (English summary)
Heng, Taihua *see* **Jing, Si-Cong et al., 2005i:81082**
Hiley, B. J. Phase space distributions of quantum phenomena. (English summary) **2005i:81081**
Horzela, Andrzej *see* **Błasiak, Paweł et al., 2005d:81222** *and* **2005g:81171**
Jing, Si-Cong (*with* Zuo, Fen; Heng, Taihua) Deformation quantization of noncommutative quantum mechanics. (English summary) **2005i:81082**
Kakazu, Kiyotaka Nonuniqueness of the number-phase Wigner function. (English summary) **2005k:81151**
Kapuścik, Edward *see* **Błasiak, Paweł et al., 2005g:81171**
Kenfack, Anatole (*with* Życzkowski, Karol) Negativity of the Wigner function as an indicator of non-classicality. (English summary)
Kiukas, Jukka (*with* Lahti, Pekka; Ylinen, Kari) Moment operators of the Cartesian margins of the phase space observables. (English summary) **2005m:81184**
Komorowski, Tomasz *see* **Bal, Guillaume et al., 2005b:81085**
Lahti, Pekka *see* **Kiukas, Jukka et al., 2005m:81184**
Leach, P. G. L. *see* **Abdalla, M. Sebawe**, **2005j:81092**
Li, Qian Shu (*with* Wei, Gong Min; Lü, Li Qiang) Relationship between the Wigner function and the probability density function in quantum phase space representation. (English summary) **2005d:81223**
Lim, S. C. (*with* Muniandy, S. V.) Stochastic quantization of nonlocal fields. (English summary) **2005j:81094**
Lindesay, James (*with* Gill, Tepper L.) Canonical proper time formulation for physical systems. (English summary) **2005g:81172**
Lü, Li Qiang *see* **Li, Qian Shu et al., 2005d:81223**
Mack, Holger *see* **Crasser, O. et al., 2005a:81122**
Maĭburov, S. N. Fuzzy geometry of space-time, and quantum mechanics. (Russian. Russian summary) **2005g:81173**
Mann, Ady (*with* Revzen, M.; Zak, Joshua) Conjugate variables in finite phase plane. (English summary) **2005m:81185**
Marmo, Giuseppe *see* **Mukunda, N. et al., 2005h:81186**
Mizrahi, Salomon S. *see* **Galetti, D. et al., 2005f:81130**
Młodawski, Krzysztof *see* **Chruściński, Dariusz**, **2005m:81183**
Mukunda, N. (*with* Marmo, Giuseppe; Zampini, A.; Chaturvedi, S.; Simon, Rajiah) Wigner-Weyl isomorphism for quantum mechanics on Lie groups. (English summary) **2005h:81186**
Muniandy, S. V. *see* **Lim, S. C., 2005j:81094**
Naseem, E. N. *see* **Zayed, E. M. E. et al., 2005i:81083**
Obada, Abdel-Shafy F. *see* **Abdalla, M. Sebawe**, **2005a:81120**
Popov, Dušan Gazeau-Klauder quasi-coherent states for the Morse oscillator. (English summary) **2005b:81086**
Prata, João Nuno *see* **Dias, Nuno Costa**, **2005h:81185** *and* **2005k:81148**
Revzen, M. *see* **Mann, Ady et al., 2005m:81185**
Ruzzi, M. *see* **Galetti, D. et al., 2005f:81130**
Ryzhik, Leonid *see* **Bal, Guillaume et al., 2005b:81085**
Savvidou, Ntina *see* **Anastopoulos, Charis**, **2005a:81121**
Schleich, W. P. *see* **Crasser, O. et al., 2005a:81122**
Schuch, Dieter On the relation between the Wigner function and an exact dynamical invariant. (English summary) **2005j:81095**
Simon, Rajiah *see* **Mukunda, N. et al., 2005h:81186**
Stubbins, Calvin Particle dynamics of a phase space distribution function. (English summary)
Sugita, Ayumu Moments of generalized Husimi distributions and complexity of many-body quantum states. (English summary) **2005b:81087**
Sun, Guo-Hua *see* **Dong, Shi-Hai et al., 2005f:81129**
Tolar, Jiří *see* **Chadzitaskos, Goce**, **2005j:81093**
Trifonov, Dimit′r Position uncertainty measures on the sphere. (English summary) (*see* **2005b:00027**)
Wei, Gong Min *see* **Li, Qian Shu et al., 2005d:81223**
Wood, J. G. (*with* Bracken, A. J.) Bounds on integrals of the Wigner function: the hyperbolic case. (English summary) **2005m:81186**
Ylinen, Kari *see* **Kiukas, Jukka et al., 2005m:81184**
Yu, Jiang *see* **Dong, Shi-Hai et al., 2005f:81129**
Zak, Joshua Commuting periodic operators and the periodic Wigner function. (English summary) **2005g:81174**
— *see also* **Mann, Ady et al., 2005m:81185**
Zampini, A. *see* **Mukunda, N. et al., 2005h:81186**
Zayed, E. M. E. (*with* Daoud, A. S.; AL-Laithy, M. A.; Naseem, E. N.) The Wigner distribution function for squeezed vacuum superposed state. (English summary) **2005i:81083**
Zueco, D. *see* **García-Palacios, J. L., 2005k:81150**
Zuo, Fen *see* **Jing, Si-Cong et al., 2005i:81082**
Życzkowski, Karol *see* **Kenfack, Anatole**

Items with secondary classifications in 81S30

Ali, Syed Twareque (*with* Führ, Hartmut; Krasowska, Anna E.) Plancherel inversion as unified approach to wavelet transforms and Wigner functions. (English summary) **2005a:43006**
Arkhipov, A. S. (*with* Lozovik, Yu. E.; Man′ko, Vladimir I.) Center of mass tomography for reconstructing quantum states of multipartite systems. (English summary) **2005h:81445**
Bäcker, A. (*with* Fürstberger, S.; Schubert, Roman) Poincaré Husimi representation of eigenstates in quantum billiards. (English summary) **2005k:81084**
Ban, Masashi Phase-space approach to continuous variable quantum teleportation. (English summary) **2005b:81025**
Bhaduri, Rajat K. *see* **Brack, Matthias**, **2005d:81002**
Brack, Matthias (*with* Bhaduri, Rajat K.) ★ Semiclassical physics. **2005d:81002**
Brodier, O. (*with* Ozorio de Almeida, A. M.) Symplectic evolution of Wigner functions in Markovian open systems. (English summary) **2005e:82066**
Castaños, Octavio (*with* López-Peña, Ramón; Man′ko, Margarita A.; Man′ko, Vladimir I.) Squeeze tomography of quantum states. (English summary) **2005g:81365**
Djemaï, A. E. F. (*with* Smail, H.) On quantum mechanics on noncommutative quantum phase space. (English summary) **2005g:81165**
— Noncommutative classical mechanics. (English summary) **2005f:70029**
El-Orany, Faisal A. A. Relationship between the atomic inversion and Wigner function for multimode multiphoton Jaynes-Cummings model. (English summary) **2005b:81234**
Fan, Hong Yi[1] (*with* Hu, Hai-peng) Characteristic and Wigner function for number difference and operational phase. (English summary)
Fermanian Kammerer, Clotilde Analyse à deux échelles d'une suite bornée de L^2 sur une sous-variété du cotangent. (English and French summaries) [Two-scale analysis of a bounded family in L^2 on a submanifold of the phase space] **2005i:28008**
Fernandes, M. C. B. *see* **Oliveira, M. D. et al., 2005m:81176**
Führ, Hartmut *see* **Ali, Syed Twareque et al., 2005a:43006**
Fujiié, Setsuro (*with* Zerzeri, Maher) Bohr-Sommerfeld quantization condition derived by a microlocal WKB method. (English summary) **2005k:81082**
Fürstberger, S. *see* **Bäcker, A. et al., 2005k:81084**
Gardiner, C. W. (*with* Zoller, P.) ★ Quantum noise. **2005g:81366**
Garidi, T. *see* **Gazeau, Jean-Pierre et al., 2005d:81197**
Gazeau, Jean-Pierre (*with* Garidi, T.; Huguet, E.; Lachièze-Rey, M.; Renaud, Jacques[1]) Examples of Berezin-Toeplitz quantization: finite sets and unit interval. (English summary) **2005d:81197**
Gröchenig, Karlheinz (*with* Zimmermann, Georg) Spaces of test functions via the STFT. (English summary) **2005d:46082**
Holland, Peter Computing the wavefunction from trajectories: particle and wave pictures in quantum mechanics and their relation. (English summary) **2005m:81037**
Hu, Hai-peng *see* **Fan, Hong Yi**[1]
Huguet, E. *see* **Gazeau, Jean-Pierre et al., 2005d:81197**
Karasev, M. V. (*with* Osborn, T. A.) Quantum magnetic algebra and magnetic curvature. (English summary) **2005i:81074**
Khanna, F. C. *see* **Oliveira, M. D. et al., 2005m:81176**
Krasowska, Anna E. *see* **Ali, Syed Twareque et al., 2005a:43006**
Lachièze-Rey, M. *see* **Gazeau, Jean-Pierre et al., 2005d:81197**
López-Peña, Ramón *see* **Castaños, Octavio et al., 2005g:81365**
Lozovik, Yu. E. *see* **Arkhipov, A. S. et al., 2005h:81445**
Man′ko, Margarita A. *see* **Castaños, Octavio et al., 2005g:81365**
Man′ko, Vladimir I. *see* **Castaños, Octavio et al., 2005g:81365** *and* **Arkhipov, A. S. et al., 2005h:81445**
Moshinsky, Marcos Transient effects in Wigner distribution phase space of a scattering problem. (English summary) **2005d:34185**
Oliveira, M. D. (*with* Fernandes, M. C. B.; Khanna, F. C.; Santana, A. E.; Vianna, J. D. M.) Symplectic quantum mechanics. (English summary) **2005m:81176**
Osborn, T. A. *see* **Karasev, M. V., 2005i:81074**
Ozorio de Almeida, A. M. *see* **Brodier, O., 2005e:82066**

Paz, Juan Pablo (*with* Roncaglia, Augusto José; Saraceno, Marcos) Quantum algorithms for phase-space tomography. (English summary) **2005a:81047**
Renaud, Jacques[1] *see* **Gazeau, Jean-Pierre et al., 2005d:81197**
Roncaglia, Augusto José *see* **Paz, Juan Pablo et al., 2005a:81047**
Santana, A. E. *see* **Oliveira, M. D. et al., 2005m:81176**
Saraceno, Marcos *see* **Paz, Juan Pablo et al., 2005a:81047**
Schubert, Roman *see* **Bäcker, A. et al., 2005k:81084**
Smail, H. *see* **Djemaï, A. E. F., 2005g:81165**
Vianna, J. D. M. *see* **Oliveira, M. D. et al., 2005m:81176**
Zerzeri, Maher *see* **Fujiié, Setsuro, 2005k:81082**
Zimmermann, Georg *see* **Gröchenig, Karlheinz, 2005d:46082**
Zoller, P. *see* **Gardiner, C. W., 2005g:81366**

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Ahn, Byung Moo (*with* Lee, Choon Ho) A convergence theorem for Feynman's operational calculus: the case of time dependent noncommuting operators. (English summary) **2005m:81187**
Al'beverio, S. (*with* Guatteri, G.; Mazzucchi, S.) A representation of the Belavkin equation via phase space Feynman path integrals. (English summary) **2005g:81175**
— (*with* Mazzucchi, S.) Some new developments in the theory of path integrals, with applications to quantum theory. (English summary) **2005c:81121**
Bai, Zhan-Wu (*with* Bao, Jing-Dong) A quartic trial action in the path-integral approach to an asymmetrical double-well potential. (English summary) **2005h:81187**
Bao, Jing-Dong *see* **Bai, Zhan-Wu, 2005h:81187**
Choi, Jeong-Ryeol *see* **Um, C. I. et al.**
Chouchaoui, A. The three-body problem in the path integral formalism. (English summary) **2005i:81084**
Dalloul, T. R. (*with* Farahat, N. I.) Path integral quantization of charged particle moving in constant magnetic field. (English summary)
Farahat, N. I. *see* **Muslih, Sami I. et al., 2005k:81153** *and* **Dalloul, T. R.**
Franchini, Emanuela (*with* Maioli, Marco) Feynman integrals with point interactions. (English summary) **2005a:81124**
George, Thomas F. *see* **Um, C. I. et al.**
Greenberg, O. W. (*with* Mishra, Ashok Kumar) Path integrals for parastatistics. (English summary) **2005i:81085**
Grosche, Christian Path integration on Hermitian hyperbolic space. (English summary) **2005k:81152**
Guatteri, G. *see* **Al'beverio, S. et al., 2005g:81175**
Haba, Zbigniew (*with* Kleinert, Hagen) Master and Langevin equations for interaction with electromagnetic and gravitational environments. (English summary) (*see* **2005c:81005**)
Heles, M. R. *see* **Muslih, Sami I. et al., 2005k:81153**
Johnson, Gerald W. (*with* Nielsen, Lance) Feynman's operational calculi blending instantaneous and continuous phenomena in Feynman's operational calculi. (English summary) **2005j:81096**
Kleinert, Hagen ★ Path integrals in quantum mechanics, statistics, polymer physics, and financial markets. **2005f:81131**
— *see also* **Haba, Zbigniew,** (**2005c:81005**)
Kolokol'tsov, V. N. Mathematics of the Feynman path integral. **2005j:81097**
Kumano-go, Naoto Feynman path integrals as analysis on path space by time slicing approximation. (English summary) **2005b:81088**
Lee, Choon Ho *see* **Ahn, Byung Moo, 2005m:81187**
Maioli, Marco *see* **Franchini, Emanuela, 2005a:81124**
Malyutin, V. B. On the computation of functional integrals over a space of functions with a finite number of values. (Russian. English and Russian summaries)
Mauro, Danilo Coadjoint orbits, spin and dequantization. (English summary) **2005m:81188**
Mazzucchi, S. *see* **Al'beverio, S. et al., 2005c:81121** *and* **2005g:81175**
Mishra, Ashok Kumar *see* **Greenberg, O. W., 2005i:81085**
Muslih, Sami I. Hamilton-Jacobi quantization of constrained systems with second-order Lagrangians. (English summary) **2005c:81122**
— Path integral quantization of mechanical systems within Riemann-Liouville fractional calculus. (English summary) **2005g:81176**
— (*with* Farahat, N. I.; Heles, M. R.) Hamilton-Jacobi quantization of constrained systems with second-order Lagrangians: splines in the Euclidean 3-space. (English summary) **2005k:81153**
Nielsen, Lance *see* **Johnson, Gerald W., 2005j:81096**
Ohnuki, Yoshio Path integral representations for a system constrained on a manifold. (English summary) **2005a:81125**
Pusterla, M. Path integral approach in quantum-like theory. Two applications: LHC and HIDIF. (English summary) **2005e:81121**
Reartes, Walter Path integral quantization of the sphere. (English summary) (*see* **2005b:70001**)
Schaden, Martin (*with* Spruch, Larry) Diffraction in the semiclassical approximation to Feynman's path integral representation of the Green function. (English summary) **2005e:81122**
Shavgulidze, E. T. *see* **Smolyanov, O. G., 2005a:81126**
Smolyanov, O. G. (*with* Shavgulidze, E. T.) Feynman formulas for solutions of infinite-dimensional Schrödinger equations with polynomial potentials. (Russian) **2005a:81126**
Spruch, Larry *see* **Schaden, Martin, 2005e:81122**
Storchak, S. N. Dependent coordinates in path integral measure factorization. (English summary) **2005j:81098**
Tarasov, V. E. Path integral for quantum operations. (English summary) **2005b:81089**
Tumulka, Roderich Feynman's path integrals and Bohm's particle paths. (English summary) **2005k:81154**
Um, C. I. (*with* Choi, Jeong-Ryeol; Yeon, K. H.; George, Thomas F.) Path integral and dynamical invariant methods applied to a power-law suppressed quadratic Hamiltonian system. (English summary)
Varadarajan, Madhavan Path integral quantization of parametrized field theory. (English summary) **2005i:81086**
Yeon, K. H. *see* **Um, C. I. et al.**

Items with secondary classifications in 81S40

de Aguiar, M. A. M. *see* **Parisio, Fernando, 2005c:81095**
Al'beverio, S. (*with* Hahn, Atle; Sengupta, Ambar N.) Rigorous Feynman path integrals, with applications to quantum theory, gauge fields, and topological invariants. (English summary) **2005k:58018**
Bashkirov, D. (*with* Sardanashvili, G. A.) Covariant Hamiltonian field theory: path integral quantization. (English summary) **2005k:70051**
Batalin, I. A. (*with* Damgaard, P. H.) Hamiltonian $N = 2$ superfield quantization. (English summary) **2005a:81211**
Belokurov, V. V. *see* **Solov'ev, Yuriĭ Petrovich et al., 2005k:58020**
Bourouaine, S. Dirac particle in a plane wave field and the semi-classical approximation. (English summary) **2005m:81102**
Bytsenko, Andrei A. (*with* Cognola, Guido; Elizalde, Emilio; Moretti, Valter; Zerbini, Sergio) ★ Analytic aspects of quantum fields. **2005a:81127**
Chang, Kun Soo (*with* Cho, Dong Hyun; Yoo, Il) Evaluation formulas for a conditional Feynman integral over Wiener paths in abstract Wiener space. (English summary) **2005j:28021**
Cho, Dong Hyun *see* **Chang, Kun Soo et al., 2005j:28021**
Cognola, Guido *see* **Bytsenko, Andrei A. et al., 2005a:81127**
Cugliandolo, Leticia F. (*with* Lozano, G. S.; Moreno, Enrique F.; Schaposnik, Fidel A.) A note on Gaussian integrals over para-Grassmann variables. (English summary) **2005a:58017**
Damgaard, P. H. *see* **Batalin, I. A., 2005a:81211**
De Angelis, Gian Fabrizio Path integrals for qubits. (English summary) **2005c:81035**
Decamps, Marc (*with* De Schepper, Ann; Goovaerts, Marc J.) Applications of δ-function perturbation to the pricing of derivative securities. (English summary) **2005h:91103**
De Schepper, Ann *see* **Decamps, Marc et al., 2005h:91103**
Djordjević, G. S. (*with* Dragović, Branko G.; Nešić, Ljubiša) p-adic Feynman's path integrals. (English summary)
Dragović, Branko G. (*with* Rakić, Zoran) Lagrangian aspects of quantum dynamics on a noncommutative space. (English summary) **2005b:81074**
— (*with* Rakić, Zoran) Path integrals in noncommutative quantum mechanics. (Russian. Russian summary) **2005i:81070**
— *see also* **Djordjević, G. S. et al.**
Elizalde, Emilio *see* **Bytsenko, Andrei A. et al., 2005a:81127**
Everett, Allen Time travel paradoxes, path integrals, and the many worlds interpretation of quantum mechanics. (English summary) **2005f:81009**
Fujikawa, Kazuo (*with* Suzuki, Hiroshi) ★ Path integrals and quantum anomalies. **2005g:81290**
— (*with* Suzuki, Hiroshi) Anomalies, local counter terms and bosonization. (English summary) **2005f:81230**
— Path integral for space-time noncommutative field theory. (English summary) **2005h:81396**
Fujiwara, Daisuke (*with* Kumano-go, Naoto) Smooth functional derivatives in Feynman path integrals by time slicing approximation. (English summary) **2005j:58012**
Goovaerts, Marc J. *see* **Decamps, Marc et al., 2005h:91103**
Hahn, Atle *see* **Al'beverio, S. et al., 2005k:58018**
Hüffel, Helmuth (*with* Kelnhofer, Gerald) QED revisited: proving equivalence between path integral and stochastic quantization. (English summary) **2005d:81383**
Jefferies, Brian Advances and applications of the Feynman integral. **2005h:28030**
Jentschura, Ulrich D. (*with* Zinn-Justin, Jean) Instantons in quantum mechanics and resurgent expansions. (English summary) **2005k:81079**
— *see also* **Zinn-Justin, Jean, 2005m:81100** *and* **2005m:81101**
Kelnhofer, Gerald *see* **Hüffel, Helmuth, 2005d:81383**
Khanna, F. C. *see* **Sengupta, Supratim et al., 2005b:81095**
Kim, Sang Pyo *see* **Sengupta, Supratim et al., 2005b:81095**
Kumano-go, Naoto *see* **Fujiwara, Daisuke, 2005j:58012**
(Kuvychko, I. V.) *see* **Menskiĭ, M. B., 2005c:81029**
Kwas, Marek (*with* Li, Youming[1]) Worst case complexity of multivariate Feynman-Kac path integration. (English summary) **2005g:65039**
Léandre, Rémi Theory of distribution in the sense of Connes-Hida and Feynman path integral on a manifold. **2005a:58056**
Li, Youming[1] *see* **Kwas, Marek, 2005g:65039**
Lim, Wattana (*with* Sa-yakanit, Virulh) Bose-Einstein condensation of atomic hydrogen Feynman path integral approach. (English summary) **2005a:82105**
Lozano, G. S. *see* **Cugliandolo, Leticia F. et al., 2005a:58017**
Maĭburov, S. N. Fuzzy geometry of space-time, and quantum mechanics. (Russian. Russian summary) **2005g:81173**
Menskiĭ, M. B. ★ Квантовые измерения и декогеренция. (Russian. Russian summary) [Quantum measurements and decoherence] **2005c:81029**
Mieck, B. Transfer-matrices of coherent state path integrals with the h_4- and su(2)-algebra for many-body systems with contact interactions. (English summary) **2005f:81303**
Moreno, Enrique F. *see* **Cugliandolo, Leticia F. et al., 2005a:58017**
Moretti, Valter *see* **Bytsenko, Andrei A. et al., 2005a:81127**
Mourão, José M. Aspects of the connections between path integrals, quantum field theory, topology and geometry. (English summary) **2005j:58013**
Nešić, Ljubiša *see* **Djordjević, G. S. et al.**
Ogawa, Naohisa From Fermat principle to wave equation—quantization of "particle mechanics of light". (English summary) **2005a:58026**
Ostilli, Massimo On the probabilistic approach for Gaussian Berezin integrals. (English summary) **2005a:58018**
Parisio, Fernando (*with* de Aguiar, M. A. M.) Semiclassical coherent-state propagator via path integrals with intermediate states of variable width. (English summary) **2005c:81095**
Predescu, Cristian Fast sampling algorithm for Lie-Trotter products. (English summary) **2005m:82148**

Rakić, Zoran *see* **Dragović, Branko G., 2005b:81074** *and* **2005i:81070**
Sala Mayato, R. *see* **Sokolovski, Dmitri, 2005m:81049**
Sardanashvili, G. A. *see* **Bashkirov, D., 2005k:70051**
Sa-yakanit, Virulh *see* **Lim, Wattana, 2005a:82105**
Schaposnik, Fidel A. *see* **Cugliandolo, Leticia F. et al., 2005a:58017**
Sengupta, Ambar N. *see* **Al'beverio, S. et al., 2005k:58018**
Sengupta, Supratim (*with* Khanna, F. C.; Kim, Sang Pyo) Nonequilibrium evolution of correlation functions: A canonical approach. (English summary) **2005b:81095**
Şerbănescu, Cristina The identification of the fermion stochastic integral of simple processes. (English summary) **2005a:81117**
Shavgulidze, E. T. *see* **Solov'ev, Yuriĭ Petrovich et al., 2005k:58020**
Shimizu, Katsutaro Discretized BRST transformations and quantum mechanical potential of a free particle on S^D. (English summary) **2005k:81335**
Silva, José Luis (*with* Streit, Ludwig) Feynman integrals and white noise analysis. (English summary) **2005j:60134**
Smolyanov, O. G. (*with* Truman, Aubrey) Feynman integrals over trajectories in Riemannian manifolds. (Russian) **2005h:58066**
— (*with* von Weizsäcker, Heinrich; Wittich, Olaf) Feynman formulas for the Cauchy problem in domains with a boundary. (Russian) **2005k:58019**
Sokolovski, Dmitri (*with* Sala Mayato, R.) Path summation and von Neumann-like quantum measurements. (English summary) **2005m:81049**
Solov'ev, Yuriĭ Petrovich (*with* Belokurov, V. V.; Shavgulidze, E. T.) Existence of functional integrals in a model of quantum field theory on a loop space. (Russian) **2005k:58020**
Streit, Ludwig *see* **Silva, José Luis, 2005j:60134**
Suzuki, Hiroshi *see* **Fujikawa, Kazuo, 2005f:81230** *and* **2005g:81290**
Tagirov, È. A. Quantum mechanics in a Riemannian space: a comparison of different approaches to the quantization of geodesic motion. (Russian. Russian summary) **2005c:81112**
Truman, Aubrey *see* **Smolyanov, O. G., 2005h:58066**
von Weizsäcker, Heinrich *see* **Smolyanov, O. G. et al., 2005k:58019**
Wittich, Olaf *see* **Smolyanov, O. G. et al., 2005k:58019**
Yoo, Il *see* **Chang, Kun Soo et al., 2005j:28021**
Zerbini, Sergio *see* **Bytsenko, Andrei A. et al., 2005a:81127**
Zinn-Justin, Jean (*with* Jentschura, Ulrich D.) Multi-instantons and exact results. I. Conjectures, WKB expansions, and instanton interactions. (English summary) **2005m:81100**
— (*with* Jentschura, Ulrich D.) Multi-instantons and exact results. II. Specific cases, higher-order effects, and numerical calculations. (English summary) **2005m:81101**
— *see also* **Jentschura, Ulrich D., 2005k:81079**

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Auberson, G. (*with* Mahoux, G.; Roy, S. M.; Singh, Virendra) Marginal distributions in $(2N)$-dimensional phase space and the quantum $(N+1)$ marginal theorem. (English summary) **2005m:81189**
Avila, Artur Convergence of an exact quantization scheme. (English summary) **2005m:81190**
ben-Avraham, Daniel (*with* Bollt, Erik M.; Tamon, Christino) One-dimensional continuous-time quantum walks. (English summary) **2005g:81178**
Bagarello, Fabio A noncommutative approach to ordinary differential equations. (English summary) **2005m:81191**
Ballentine, L. E. Quantum-to-classical limit in a Hamiltonian system. (English summary) **2005g:81177**
Bellucci, Stefano (*with* Nersesyan, A. P.; Yeranyan, A. H.) Quantum mechanics model on a Kähler conifold. (English summary) **2005h:81188**
— (*with* Nersesyan, A. P.; Yeranyan, A. H.) Quantum oscillator on $\mathbb{CP}^n$ in a constant magnetic field. (English summary) **2005h:81189**
Bimonte, Giuseppe (*with* Esposito, Giampiero; Marmo, Giuseppe; Stornaiolo, Cosimo) Peierls brackets: from field theory to dissipative systems. (English summary) **2005e:81123**
Blasone, Massimo (*with* Jizba, Petr; Vitiello, Giuseppe) Dissipation, emergent quantization, and quantum fluctuations. (English summary) (*see* **2005c:81005**)
Bollt, Erik M. *see* **ben-Avraham, Daniel et al., 2005g:81178**
Brodlie, Alastair Nonlinear canonical transformations in classical and quantum mechanics. (English summary) **2005b:81090**
Burch, Aidan Histories electromagnetism. (English summary) **2005g:81179**
Calogero, Francesco (*with* Degasperis, A.) On the quantization of Newton-equivalent Hamiltonians. (English summary)
Chryssomalakos, Chryssomalis (*with* Okon, E.) Generalized quantum relativistic kinematics: a stability point of view. (English summary) **2005k:81155**
Cresson, Jacky Scale calculus and the Schrödinger equation. (English summary) **2005c:81123**
Degasperis, A. *see* **Calogero, Francesco**
Esposito, Giampiero *see* **Bimonte, Giuseppe et al., 2005e:81123**
Fernández, F. M. On the Magnus, Wilcox and Fer operator equations. (English summary) **2005h:81190**
Ferreira, Paulo J. S. G. *see* **Kempf, Achim, 2005h:81193**
Gaies, A. (*with* Ziar, A.) Variational calculus with fractional action. (English summary) **2005h:81191**
Galapon, Eric A. Shouldn't there be an antithesis to quantization? (English summary) **2005d:81224**
Grössing, Gerhard From classical Hamiltonian flow to quantum theory: derivation of the Schrödinger equation. (English summary)
Jing, Jian Canonical quantization of the Dirac field in a finite volume. (English summary) **2005j:81099**
Jizba, Petr *see* **Blasone, Massimo et al., (2005c:81005)**
Kawamura, Yoshiharu Generalized Heisenberg dynamics. (English summary) **2005h:81192**
Kempf, Achim (*with* Ferreira, Paulo J. S. G.) Unusual properties of superoscillating particles. (English summary) **2005h:81193**
Knight, Peter L. (*with* Roldán, Eugenio; Sipe, J. E.) Propagating quantum walks: the origin of interference structures. (English summary) **2005e:81124**
Kosiński, Piotr (*with* Maślanka, Paweł) Depurification by Lorentz boosts. (English summary) **2005d:81225**
Kovalchuk, Vasyl *see* **Sławianowski, Jan J., 2005m:81192**
Mahoux, G. *see* **Auberson, G. et al., 2005m:81189**
Mardoyan, L. G. Dyon-oscillator duality. Hidden symmetry of the Yang-Coulomb monopole. (English summary) **2005h:81194**
Marmo, Giuseppe *see* **Bimonte, Giuseppe et al., 2005e:81123**
Maślanka, Paweł *see* **Kosiński, Piotr, 2005d:81225**
Mostafazadeh, Ali Pseudounitary operators and pseudounitary quantum dynamics. (English summary) **2005f:81132**
Nersesyan, A. P. *see* **Bellucci, Stefano et al., 2005h:81188** *and* **2005h:81189**
Okon, E. *see* **Chryssomalakos, Chryssomalis, 2005k:81155**
Peletminskiĭ, S. V. (*with* Slyusarenko, Yu. V.) Second quantization method in the presence of bound states of particles. (English summary) **2005j:81100**
Piotrowski, Edward W. (*with* Sładkowski, Jan) The next stage: quantum game theory. (English summary) (*see* **2005a:00002**)
Planat, Michel (*with* Rosu, H. C.) The hyperbolic, the arithmetic and the quantum phase. (English summary) **2005e:81125**
Roldán, Eugenio *see* **Knight, Peter L. et al., 2005e:81124**
Roshchin, R. A. Generalization of the spectral theorem to the case of families of noncommuting operators, and a linear programming problem. (Russian. Russian summary) **2005g:81180**
Rosu, H. C. *see* **Planat, Michel, 2005e:81125**
Roy, S. M. *see* **Auberson, G. et al., 2005m:81189**
Severini, Simone (*with* Tanner, Gregor) Regular quantum graphs. (English summary) **2005e:81126**
Singh, Virendra *see* **Auberson, G. et al., 2005m:81189**
Sipe, J. E. *see* **Knight, Peter L. et al., 2005e:81124**
Sładkowski, Jan *see* **Piotrowski, Edward W., (2005a:00002)**
Sławianowski, Jan J. (*with* Kovalchuk, Vasyl) Classical and quantized affine physics: a step towards it. (English summary) **2005m:81192**
Slyusarenko, Yu. V. *see* **Peletminskiĭ, S. V., 2005j:81100**
Stornaiolo, Cosimo *see* **Bimonte, Giuseppe et al., 2005e:81123**
Suzuki, Masuo Separation of non-commutative procedures—exponential product formulas and quantum analysis. (English summary) **2005d:81226**
Tamon, Christino *see* **ben-Avraham, Daniel et al., 2005g:81178**
Tanner, Gregor *see* **Severini, Simone, 2005e:81126**
Trzetrzelewski, M. (*with* Wosiek, J.) Quantum systems in a cut Fock space. (English summary) **2005e:81127**
Vitiello, Giuseppe *see* **Blasone, Massimo et al., (2005c:81005)**
Wosiek, J. *see* **Trzetrzelewski, M., 2005e:81127**
Yeranyan, A. H. *see* **Bellucci, Stefano et al., 2005h:81188** *and* **2005h:81189**
Ziar, A. *see* **Gaies, A., 2005h:81191**

Items with secondary classifications in 81S99

Abal, G. *see* **Romanelli, A. et al., 2005f:81045**
d'Almeida, Jorge Manuel Amaro (*with* de Freitas, J. A. Teixeira) The space of state vectors: a hyperfinite approach. (English summary) **2005g:81007**
Aragão, A. (*with* Monteiro, Paula B.; Avelar, A. T.; Baseia, B.) Superposition of new phase states: generation and properties. (English summary) **2005k:81383**
Auyuanet, A. *see* **Romanelli, A. et al., 2005f:81045**
Avelar, A. T. *see* **Aragão, A. et al., 2005k:81383**
Azevedo, Julio C. S. *see* **Segatto, Breno R. et al., 2005b:81049a** *and* **2005b:81049b**
Baseia, B. *see* **Aragão, A. et al., 2005k:81383**
Brodsky, Stanley J. *see* **Raufeisen, Jörg, 2005i:82037**
Calogero, Francesco Cosmic origin of quantization. (English summary) **2005e:83112**
Canarutto, Daniel Connections on distributional bundles. (English summary) **2005d:53032**
Donangelo, Raul *see* **Romanelli, A. et al., 2005f:81045**
Formánek, J. (*with* Lombard, R. J.; Mareš, Jiří) Wave equations with energy-dependent potentials. (English summary) **2005c:81055**
de Freitas, J. A. Teixeira *see* **d'Almeida, Jorge Manuel Amaro, 2005g:81007**
Handy, C. R. Positivity representations for non-Hermitian Hamiltonians. (English summary) **2005e:81256**
Isham, C. J. A new approach to quantising space-time. I. Quantising on a general category. (English summary) **2005f:83040**
Jakobsen, Per (*with* Lychagin, Valentin) Relations and quantizations in the category of probabilistic bundles. (English summary) **2005f:60014**
Kanatchikov, Igor V. Precanonical quantization of Yang-Mills fields and the functional Schrödinger representation. (English summary) **2005c:81137**
Keppeler, Stefan Semiclassical quantisation rules for the Dirac and Pauli equations. (English summary) **2005a:81073**
Kevrekidis, Panayotis G. *see* **Konotop, V. V., 2005a:81058**
Konotop, V. V. (*with* Kevrekidis, Panayotis G.) Bohr-Sommerfeld quantization condition for the Gross-Pitaevskii equation. (English summary) **2005a:81058**
Litvinov, G. L. The Maslov dequantization, idempotent and tropical mathematics: a very brief introduction. (English summary)
Lombard, R. J. *see* **Formánek, J. et al., 2005c:81055**
Lychagin, Valentin *see* **Jakobsen, Per, 2005f:60014**
Mann, Ady (*with* Revzen, M.; Zak, Joshua) Conjugate variables in finite phase plane. (English summary) **2005m:81185**
Mareš, Jiří *see* **Formánek, J. et al., 2005c:81055**
Martens, Agnieszka Quantization of the planar affinely-rigid body. (English summary) **2005i:70037**
Monteiro, Paula B. *see* **Aragão, A. et al., 2005k:81383**
Rassias, John Michael On the Heisenberg-Pauli-Weyl inequality. (English summary) **2005e:41035**
Raufeisen, Jörg (*with* Brodsky, Stanley J.) Statistical physics and light-front quantization. (English summary) **2005i:82037**

Revzen, M. *see* **Mann, Ady et al., 2005m:81185**
Romanelli, A. (*with* Sicardi-Schifino, Anibal C.; Siri, R.; Abal, G.; Auyuanet, A.; Donangelo, Raul) Quantum random walk on the line as a Markovian process. (English summary) **2005f:81045**
Segatto, Breno R. (*with* Azevedo, Julio C. S.; de Souza, Manoelito M.) Harmonic potential as an effective limit of a discrete classical interaction. (English summary) **2005b:81049a**
— (*with* Azevedo, Julio C. S.; de Souza, Manoelito M.) Corrigendum: "Harmonic potential as an effective limit of a discrete classical interaction". **2005b:81049b**
Sicardi-Schifino, Anibal C. *see* **Romanelli, A. et al., 2005f:81045**
Sidharth, B. G. Geometry and quantum mechanics. (English summary) **2005g:81017**
Siri, R. *see* **Romanelli, A. et al., 2005f:81045**
de Souza, Manoelito M. *see* **Segatto, Breno R. et al., 2005b:81049a** *and* **2005b:81049b**
Zak, Joshua *see* **Mann, Ady et al., 2005m:81185**

81Txx Quantum field theory; related classical field theories [see also 70Sxx]

Bytsenko, Andrei A. (*with* Cognola, Guido; Elizalde, Emilio; Moretti, Valter; Zerbini, Sergio) ★ Analytic aspects of quantum fields. **2005a:81127**
Cognola, Guido *see* **Bytsenko, Andrei A. et al., 2005a:81127**
Elizalde, Emilio *see* **Bytsenko, Andrei A. et al., 2005a:81127**
Moretti, Valter *see* **Bytsenko, Andrei A. et al., 2005a:81127**
Zerbini, Sergio *see* **Bytsenko, Andrei A. et al., 2005a:81127**

81T05 Axiomatic quantum field theory; operator algebras

Babujian, H. (*with* Karowski, M.) Towards the construction of Wightman functions of integrable quantum field theories. (English summary) **2005j:81101**
Bollini, C. G. (*with* Rocca, M. C.) Convolution of Lorentz invariant ultradistributions and field theory. (English summary) **2005m:81193**
Brunetti, Romeo (*with* Fredenhagen, Klaus; Verch, Rainer) The generally covariant locality principle—a new paradigm for local quantum field theory. (English summary) **2005a:81128**
Brüning, Erwin (*with* Nagamachi, Shigeaki) Relativistic quantum field theory with a fundamental length. (English summary) **2005d:81227**
— *see also* **Nagamachi, Shigeaki, 2005d:81229**
Buchholz, Detlev (*with* Lechner, Gandalf) Modular nuclearity and localization. (English summary) **2005k:81156**
— (*with* Summers, Stephen J.) An algebraic characterization of vacuum states in Minkowski space. III. Reflection maps. (English summary) **2005g:81181**
Carpi, Sebastiano On the representation theory of Virasoro nets. (English summary) **2005e:81128**
Corichi, Alejandro (*with* Cortez, Jerónimo; Quevedo, Hernando) Note on canonical quantization and unitary equivalence in field theory. (English summary) **2005b:81091**
Cortez, Jerónimo *see* **Corichi, Alejandro et al., 2005b:81091**
D'Antoni, Claudio (*with* Morsella, Gerardo; Verch, Rainer) Scaling algebras for charged fields and short-distance analysis for localizable and topological charges. (English summary) **2005j:81102**
— (*with* Fredenhagen, Klaus; Köster, Søren) Implementation of conformal covariance by diffeomorphism symmetry. (English summary) **2005e:81129**
Dütsch, Michael (*with* Rehren, Karl-Henning) Generalized free fields and the AdS-CFT correspondence. (English summary) **2005a:81129**
Fredenhagen, Klaus *see* **Brunetti, Romeo et al., 2005a:81128** *and* **D'Antoni, Claudio et al., 2005e:81129**
Govind Sharan, Anand Murti *see* **Sinha, Tarun Kumar**
Jäkel, Christian D. The relation between KMS states for different temperatures. (English summary) **2005e:81130**
Karowski, M. *see* **Babujian, H., 2005j:81101**
Kawahigashi, Yasuyuki (*with* Longo, Roberto) Classification of two-dimensional local conformal nets with $c < 1$ and 2-cohomology vanishing for tensor categories. (English summary) **2005d:81228**
Kitajima, Yuichiro A remark on the modal interpretation of algebraic quantum field theory. (English summary) **2005g:81182**
Köster, Søren *see* **D'Antoni, Claudio et al., 2005e:81129**
Kuckert, Bernd Moving quantum systems: particles versus vacuum. (English summary) **2005a:81130**
Lechner, Gandalf *see* **Buchholz, Detlev, 2005k:81156**
Longo, Roberto (*with* Xu, Feng[5]) Topological sectors and a dichotomy in conformal field theory. (English summary) **2005i:81087**
— (*with* Rehren, Karl-Henning) Local fields in boundary conformal QFT. (English summary) **2005h:81195**
— *see also* **Kawahigashi, Yasuyuki, 2005d:81228**
Morsella, Gerardo *see* **D'Antoni, Claudio et al., 2005j:81102**
Nagamachi, Shigeaki (*with* Brüning, Erwin) Localization in quantum field theory. (English summary) **2005d:81229**
— *see also* **Brüning, Erwin, 2005d:81227**
Nikolov, Nikolai Marinov (*with* Todorov, Ivan T.) Conformal invariance and rationality in an even dimensional quantum field theory. (English summary) **2005j:81103**
Ojima, Izumi Temperature as order parameter of broken scale invariance. (English summary) **2005g:81183**
Porrmann, Martin Particle weights and their disintegration. I. (English summary) **2005j:81104**
— Particle weights and their disintegration. II. (English summary) **2005i:81088**
Puccini, Gabriel D. (*with* Vucetich, Héctor) Axiomatic foundations of Galilean quantum field theories. (English summary) **2005g:81184**
— (*with* Vucetich, Héctor) Steps towards the axiomatic foundations of the relativistic quantum field theory: spin-statistics, commutation relations, and CPT theorems. (English summary) **2005h:81196**
Quevedo, Hernando *see* **Corichi, Alejandro et al., 2005b:81091**
Rehren, Karl-Henning *see* **Dütsch, Michael, 2005a:81129** *and* **Longo, Roberto, 2005h:81195**
Ritter, William Gordon Description of noncommutative theories and matrix models by Wightman functions. (English summary) **2005m:81194**
Roberts, John E. More lectures on algebraic quantum field theory. (English summary) **2005d:81230**
Rocca, M. C. *see* **Bollini, C. G., 2005m:81193**
Ruzzi, Giuseppe Essential properties of the vacuum sector for a theory of superselection sectors. (English summary) **2005e:81131**
Sinha, Tarun Kumar (*with* Govind Sharan, Anand Murti) On locality conditions in relativistic quantum field theory. (English summary)
Summers, Stephen J. *see* **Buchholz, Detlev, 2005g:81181**
Todorov, Ivan T. *see* **Nikolov, Nikolai Marinov, 2005j:81103**
Verch, Rainer *see* **Brunetti, Romeo et al., 2005a:81128** *and* **D'Antoni, Claudio et al., 2005j:81102**
Vucetich, Héctor *see* **Puccini, Gabriel D., 2005g:81184** *and* **2005h:81196**
Xu, Feng[5] *see* **Longo, Roberto, 2005i:81087**
Yngvason, Jakob The role of type III factors in quantum field theory. (English summary) **2005j:81105**

Items with secondary classifications in 81T05

Corichi, Alejandro (*with* Cortez, Jerónimo; Quevedo, Hernando) Schrödinger and Fock representation for a field theory on curved spacetime. (English summary) **2005f:81161**
Cortez, Jerónimo *see* **Corichi, Alejandro et al., 2005f:81161**
Evans, David E. Critical phenomena, modular invariants and operator algebras. (English summary) **2005e:46117**
Gérard, Christian (*with* Jäkel, Christian D.) Thermal quantum fields with spatially cutoff interactions in $1+1$ space-time dimensions. (English summary) **2005m:81195**
Gottschalk, Hanno (*with* Thaler, Horst) An indefinite metric model for interacting quantum fields on globally hyperbolic space-times. (English summary) **2005d:81263**
Hawkins, Eli (*with* Markopoulou, Fotini; Sahlmann, Hanno) Evolution in quantum causal histories. (English summary) **2005a:83041**
Jäkel, Christian D. *see* **Gérard, Christian, 2005m:81195**
Kawahigashi, Yasuyuki Braiding and nets of factors on the circle. (English summary) **2005a:46126**
Köster, Søren Conformal covariance subalgebras. (English summary) **2005e:81089**
— Local nature of coset models. (English summary) **2005f:81096**
Kuna, Maciej (*with* Naudts, Jan) Covariance approach to the free photon field. (English summary) **2005d:81384**
Lledó, Fernando Massless relativistic wave equations and quantum field theory. (English summary) **2005i:81091**
Mahajan, Namit PCT theorem in field theory on non-commutative space. (English summary) **2005b:81214**
Markopoulou, Fotini *see* **Hawkins, Eli et al., 2005a:83041**
Moretti, Valter (*with* Pinamonti, Nicola) Holography and $SL(2,\mathbb{R})$ symmetry in 2D Rindler space-time. (English summary) **2005k:81191**
Naudts, Jan *see* **Kuna, Maciej, 2005d:81384**
Ojima, Izumi Non-equilibrium local states in relativistic quantum field theory. (English summary) **2005d:82074**
Pinamonti, Nicola *see* **Moretti, Valter, 2005k:81191**
Quevedo, Hernando *see* **Corichi, Alejandro et al., 2005f:81161**
Sahlmann, Hanno *see* **Hawkins, Eli et al., 2005a:83041**
Thaler, Horst *see* **Gottschalk, Hanno, 2005d:81263**

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Al'beverio, S. (*with* Ferrario, B.; Yoshida, Minoru W.) On the essential self-adjointness of Wick powers of relativistic fields and of fields unitary equivalent to random fields. (English summary) **2005c:81124**
— (*with* Liang, Song) A remark on different lattice approximations and continuum limits for φ_2^4-fields. (English summary) **2005i:81089**
— (*with* Gottschalk, Hanno; Yoshida, Minoru W.) Systems of classical particles in the grand canonical ensemble, scaling limits and quantum field theory. (English summary) **2005k:81157**
Bolina, Oscar *see* **Wreszinski, Walter F. et al., 2005h:81198**
Brydges, David C. (*with* Mitter, P. K.; Scoppola, Benedetto) Critical $(\Phi^4)_{3,\varepsilon}$. (English summary) **2005b:81092**
Conlon, Joseph G. PDE with random coefficients and Euclidean field theory. (English summary) **2005e:81132**
Dimock, J. Markov quantum fields on a manifold. (English summary) **2005d:81231**
Ferrario, B. *see* **Al'beverio, S. et al., 2005c:81124**
Gérard, Christian (*with* Jäkel, Christian D.) Thermal quantum fields with spatially cutoff interactions in $1+1$ space-time dimensions. (English summary) **2005m:81195**
Gottschalk, Hanno *see* **Al'beverio, S. et al., 2005k:81157**
Huang, Zhiyuan (*with* Rang, Guanglin) White noise approach to the construction of Φ_4^4 quantum fields. (English summary) **2005a:81131**
— (*with* Rang, Guanglin) Generalized operators and $P(\varphi)_2$ quantum fields. (English summary) **2005j:81106**
Jäkel, Christian D. *see* **Gérard, Christian, 2005m:81195**
Liang, Song *see* **Al'beverio, S., 2005i:81089**
Manzoni, Luiz A. *see* **Wreszinski, Walter F. et al., 2005h:81198**
Mitter, P. K. *see* **Brydges, David C. et al., 2005b:81092**
Mund, Jens (*with* Schroer, Bert; Yngvason, Jakob) String-localized quantum fields from Wigner representations. (English summary) **2005h:81197**
Rang, Guanglin *see* **Huang, Zhiyuan, 2005a:81131** *and* **2005j:81106**
Schroer, Bert *see* **Mund, Jens et al., 2005h:81197**
Scoppola, Benedetto *see* **Brydges, David C. et al., 2005b:81092**
Solov′ev, M. A. On the generalized function calculus for infrared and ultraviolet singular quantum fields. (English summary) **2005e:81133**

Volovich, Yaroslav Interacting stochastic process and renormalization theory. (English summary) (*see* **2005c:81006**)
Wreszinski, Walter F. (*with* Manzoni, Luiz A.; Bolina, Oscar) Existence of the Bogoliubov $S(g)$ operator for the $(:\varphi^4:)_2$ quantum field theory. (English summary) **2005h:81198**
Yngvason, Jakob *see* **Mund, Jens et al., 2005h:81197**
Yoshida, Minoru W. *see* **Al'beverio, S. et al., 2005c:81124** *and* **2005k:81157**

Items with secondary classifications in 81T08

Al'beverio, S. (*with* Liang, Song) A new lattice approximation for the Høegh-Krohn quantum field model. (English summary) **2005h:81253**
Bahns, Dorothea An ultraviolet-finite Hamiltonian approach on the noncommutative Minkowski space. (English summary) **2005c:81224**
Bauer, Michel (*with* Bernard, Denis) Conformal transformations and the SLE partition function martingale. (English summary) **2005e:81205**
Bernard, Denis *see* **Bauer, Michel, 2005e:81205**
Bollini, C. G. (*with* Rocca, M. C.) Convolution of n-dimensional tempered ultradistributions and field theory. (English summary) **2005b:46079**
Driver, Bruce K. Heat kernels measures and infinite dimensional analysis. (English summary) **2005e:58058**
Gérard, Christian Théorie de la diffusion pour le modèle de Nelson et problème infrarouge. (English and French summaries) [Scattering theory for the Nelson model and infrared problem] **2005j:81107**
Hainzl, Christian (*with* Hirokawa, Masao; Spohn, Herbert) Binding energy for hydrogen-like atoms in the Nelson model without cutoffs. (English summary) **2005k:81362**
Hirokawa, Masao *see* **Hainzl, Christian et al., 2005k:81362**
Huang, Zhiyuan (*with* Wu, Ying[2]) Interacting Fock expansion of Lévy white noise functionals. (English summary) **2005d:60103**
Jefferies, Brian Advances and applications of the Feynman integral. **2005h:28030**
Liang, Song *see* **Al'beverio, S., 2005h:81253**
Rocca, M. C. *see* **Bollini, C. G., 2005b:46079**
Sait-Ametov, Mustafa R. Properties of 2-adic Green functions. (English summary) **2005f:11274**
Spohn, Herbert *see* **Hainzl, Christian et al., 2005k:81362**
Wu, Ying[2] *see* **Huang, Zhiyuan, 2005d:60103**
Yoo, Hyun Jae Dirichlet forms and diffusion processes for fermion random point fields. (English summary) **2005k:60311**

81T10 Model quantum field theories

Adam, Christoph (*with* Sánchez-Guillén, Joaquin) Symmetries of generalized soliton models and submodels on target space S^2. (English summary) **2005k:81158**
Ahmedov, Hadji (*with* Duru, I. H.) Casimir energy inside a cavity with triangular cross section. (English summary) **2005b:81093**
Ahn, Changrim (*with* Bellacosa, Marco; Ravanini, Francesco) Excited states NLIE for sine-Gordon model in a strip with Dirichlet boundary conditions. (English summary) **2005k:81159**
— (*with* Bajnok, Zoltán; Nepomechie, Rafael I.; Palla, László; Takács, Gábor) NLIE for hole excited states in the sine-Gordon model with two boundaries. (English summary) **2005k:81160**
Alonso Izquierdo, A. (*with* Bueno Sánchez, J. C.; González León, M. A.; de la Torre Mayado, M.) Kink manifolds in a three-component scalar field theory. (English summary) **2005a:81132**
Andronico, A. (*with* Angelani, L.; Ruocco, G.; Zamponi, F.) Topological properties of the mean-field φ^4 model. (English summary) **2005k:81161**
Angelani, L. *see* **Andronico, A. et al., 2005k:81161**
Arai, Asao Mathematical theory of quantum particles interacting with a quantum field. (English summary) **2005d:81232**
— Enhanced binding in a model of an abstract quantum system coupled to a multi-component Bose field. (English summary) **2005f:81133**
Baacke, Jürgen (*with* Heinen, Andreas) Quantum dynamics of Φ^4 field theory beyond leading order in $1+1$ dimensions. (English summary) **2005a:81133**
Bajnok, Zoltán (*with* Palla, László; Takács, Gábor) (Semi)classical analysis of sine-Gordon theory on a strip. (English summary) **2005k:81162**
— *see also* **Ahn, Changrim et al., 2005k:81160**
Balog, János (*with* Hegedűs, Árpád) TBA equations for excited states in the O(3) and O(4) nonlinear σ-model. (English summary) **2005g:81185**
— (*with* Hegedűs, Árpád) TBA equations for excited states in the sine-Gordon model. (English summary) **2005g:81186**
Bardakci, Korkut Meanfield approximation for field theories on the worldsheet revisited. (English summary) **2005f:81134**
Bellacosa, Marco *see* **Ahn, Changrim et al., 2005k:81159**
Bender, Carl M. Properties of non-Hermitian quantum field theories. (English and French summaries) **2005d:81233**
— (*with* Brody, Dorje C.; Jones, Hugh F.) Scalar quantum field theory with a complex cubic interaction. (English summary) **2005h:81199**
Bezerra, Valdir B. (*with* Rego-Monteiro, M. A.) Some boundary effects in quantum field theory. (English summary) **2005h:81200**
Bittner, Elmar (*with* Janke, Wolfhard) Generalized complex $|\psi|^4$ model. (English summary) **2005a:81134**
Blas Achic, H. S. Bosonization and generalized Mandelstam soliton operators. (English summary) **2005f:81135**
Boháčik, J. (*with* Prešnajder, Peter) Remarks on independent value model. (English summary) **2005h:81201**
Brody, Dorje C. *see* **Bender, Carl M. et al., 2005h:81199**
Bueno Sánchez, J. C. *see* **Alonso Izquierdo, A. et al., 2005a:81132**
Caracciolo, Sergio (*with* Jacobsen, Jesper Lykke; Saleur, Hubert; Sokal, Alan D.; Sportiello, Andrea) Fermionic field theory for trees and forests. (English summary) **2005h:81202**
Castro-Alvaredo, Olalla (*with* Fring, Andreas) Universal boundary reflection amplitudes. (English summary) **2005d:81234**
Chodos, Alan *see* **Cooper, Fred et al., 2005f:81136**
Contino, Roberto (*with* Pomarol, Alex) Holography for fermions. (English summary) **2005i:81090**
Cooper, Fred (*with* Sodano, Pasquale; Trombettoni, Andrea; Chodos, Alan) $O(N)$ symmetric extension of the sine-Gordon equation. (English summary) **2005f:81136**
Cova, R. J. (*with* Zakrzewski, Wojciech J.) Scattering of periodic solitons. (English and Spanish summaries) **2005f:81137**
Darewych, Jurij W. *see* **Duviryak, A.**
Davidson, Aharon *see* **Mannheim, Philip D., 2005m:81197**
De Haan, Michel Field theory reformulated without self-energy parts. Kinetic extension for the Lee model. (English summary) **2005a:81135**
— Erratum to: "Field theory reformulated without self-energy parts. Kinetic extension for the Lee model" [Ann. Physics **311** (2004), no. 2, 314–349; MR2055682 (2005a:81135)].
Delfino, Gesualdo (*with* Grinza, Paolo; Mosconi, P.; Mussardo, G.) Correlation functions of disorder operators in massive free theories. (English summary) **2005d:81235**
— (*with* Niccoli, Giuliano) Form factors of descendant operators in the massive Lee-Yang model. (English summary) **2005m:81196**
Dereli, Tekin (*with* Yılmaz, Nejat T.) Dualisation of the symmetric space sigma model with couplings. (English summary) **2005h:81203**
Dorey, Patrick (*with* Miramontes, J. Luis) Mass scales and crossover phenomena in the homogeneous sine-Gordon models. (English summary) **2005k:81163**
Doyon, Benjamin Two-point correlation functions of scaling fields in the Dirac theory on the Poincaré disk. (English summary) **2005d:81236**
Duru, I. H. *see* **Ahmedov, Hadji, 2005b:81093**
Duviryak, A. (*with* Darewych, Jurij W.) Variational Hamiltonian treatment of partially reduced Yukawa-like models. (English summary)
Dzhordzhadze, G. P. S-matrix, vertex operators and correlation functions of Liouville theory. (English summary) **2005c:81125**
— (*with* Weigt, Gerhard) The zero mode problem in Liouville field theory. (Russian. Russian summary) **2005d:81237**
Evans, Jonathan M. (*with* Kagan, David; Young, Charles A. S.) Non-local charges and quantum integrability of sigma models on the symmetric spaces $SO(2n)/SO(n) \times SO(n)$ and $Sp(2n)/Sp(n) \times Sp(n)$. (English summary) **2005f:81138**
Ferraro, Rafael 2D Born-Infeld electrostatic fields. (English summary) **2005c:81126**
Ferreira, L. A. Euclidean 4d exact solitons in a Skyrme type model. (English summary) **2005h:81204**
Fresneda, R. (*with* Gavrilov, S. P.; Gitman, D. M.; Moshin, P. Yu.) Quantization of $(2+1)$-spinning particles and bifermionic constraint problem. (English summary) **2005f:81139**
Fring, Andreas *see* **Castro-Alvaredo, Olalla, 2005d:81234**
Gavrilov, S. P. *see* **Fresneda, R. et al., 2005f:81139**
Georgescu, Vladimir (*with* Gérard, Christian; Møller, Jacob Schach) Spectral theory of massless Pauli-Fierz models. (English summary) **2005h:81205**
Gérard, Christian Théorie de la diffusion pour le modèle de Nelson et problème infrarouge. (English and French summaries) [Scattering theory for the Nelson model and infrared problem] **2005j:81107**
— *see also* **Georgescu, Vladimir et al., 2005h:81205**
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Gleiser, Marcelo d-dimensional oscillating scalar field lumps and the dimensionality of space. (English summary)
Gomis, Joaquim (*with* Kamimura, Kiyoshi; Ramírez, Toni) Physical degrees of freedom of non-local theories. (English summary) **2005c:81127**
González León, M. A. *see* **Alonso Izquierdo, A. et al., 2005a:81132**
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Hadasz, Leszek (*with* Jaskólski, Zbigniew) Polyakov conjecture for hyperbolic singularities. (English summary) **2005f:81140**
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Heinen, Andreas *see* **Baacke, Jürgen, 2005a:81133**
Hirayama, Minoru (*with* Shi, Chang-Guang) Class of exact solutions of the Faddeev model. (English summary) **2005e:81134**
Hirokawa, Masao (*with* Hiroshima, Fumio; Spohn, Herbert) Ground state for point particles interacting through a massless scalar Bose field. (English summary) **2005h:81206**
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Honkonen, Juha (*with* Komarova, M. V.; Nalimov, M. Yu.) Instantons for dynamic models from B to H. (English summary) **2005k:81164**
Ichinose, Shoichi (*with* Murayama, Akihiro) Quantum dynamics of a bulk-boundary system. (English summary) **2005j:81108**
Ioannidou, Theodora (*with* Vlachos, N. D.) On the Q-ball profile function. (English summary) **2005d:81238**
Jacobsen, Jesper Lykke *see* **Caracciolo, Sergio et al., 2005h:81202**
Janke, Wolfhard *see* **Bittner, Elmar, 2005a:81134**
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Kochubeĭ, A. N. (*with* Sait-Ametov, Mustafa R.) Construction of interaction measures on the space of distributions over the field of p-adic numbers. (English summary) **2005k:81165**
Kogetsu, Hisashi (*with* Teraguchi, Shunsuke) Massless boundary sine-Gordon model coupled to external fields. (English summary) **2005k:81166**
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Langmann, Edwin Second quantization of the elliptic Calogero-Sutherland model. (English summary) **2005h:81207**
Lee, Taejun (*with* Rim, Chaiho) Thermodynamic Bethe ansatz for boundary sine-Gordon model. (English summary) **2005c:81128**
Leonhardt, Thorsten (*with* Rühl, Werner) The minimal $O(N)$ sigma model at $D=3$

as the holographic image of a higher spin field theory on AdS_4. (English summary) **2005d:81239**

— (*with* Rühl, Werner) The minimal conformal $O(N)$ vector sigma model at $d = 3$. (English summary) **2005a:81136**

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Lledó, Fernando Massless relativistic wave equations and quantum field theory. (English summary) **2005i:81091**

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Lu, Wen-Fa Sine-Gordon expectation values of exponential fields with variational perturbation theory. (English summary) **2005f:81141**

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McKeon, D. G. C. The bosonic sigma model on a toroidal surface. (English summary) **2005j:81110**

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Menotti, Pietro (*with* Tonni, Erik) The tetrahedron graph in Liouville theory on the pseudosphere. (English summary) **2005c:81129**

Milton, Kimball A. $\mathcal{PT}$-symmetric quantum field theory. (English summary)

— Casimir energies and pressures for δ-function potentials. (English summary) **2005b:81094**

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Murayama, Akihiro *see* **Ichinose, Shoichi, 2005j:81108**

Mussardo, G. (*with* Riva, V.; Sotkov, G. M.) Semiclassical particle spectrum of double sine-Gordon model. (English summary) **2005f:81142**

— (*with* Riva, V.; Sotkov, G. M.) Semiclassical scaling functions of sine-Gordon model. (English summary) **2005f:81143**

— (*with* Riva, V.; Sotkov, G. M.) Semiclassical energy levels of sine-Gordon model on a strip with Dirichlet boundary conditions. (English summary) **2005h:81209**

— *see also* **Delfino, Gesualdo et al., 2005d:81235**

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Narita, Kazuaki Generalized difference model of phi-4 equation.

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Piette, B. M. A. G. (*with* Ward, R. S.) Planar skyrmions: vibrational modes and dynamics. (English summary) **2005i:81092**

Pogrebkov, A. K. The boson-fermion correspondence and quantum integrable and dispersionless models. (Russian. Russian summary) **2005c:81131**

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Ravanini, Francesco *see* **Ahn, Changrim et al., 2005k:81159**

Razmi, H. (*with* Modarresi, S. M.) Casimir torque for a perfectly conducting wedge: a canonical quantum field theoretical approach. (English summary)

Rego-Monteiro, M. A. *see* **Bezerra, Valdir B., 2005h:81200**

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Santana, A. E. *see* **dos Santos, Esdras Santana et al., 2005g:81187**

dos Santos, Esdras Santana (*with* de Montigny, M.; Khanna, F. C.; Santana, A. E.) Galilean covariant Lagrangian models. (English summary) **2005g:81187**

Sengupta, Supratim (*with* Khanna, F. C.; Kim, Sang Pyo) Nonequilibrium evolution of correlation functions: A canonical approach. (English summary) **2005b:81095**

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Spencer, Thomas C. (*with* Zirnbauer, M. R.) Spontaneous symmetry breaking of a hyperbolic sigma model in three dimensions. (English summary) **2005h:81211**

Splittorff, K. (*with* Verbaarschot, J. J. M.) Factorization of correlation functions and the replica limit of the Toda lattice equation. (English summary) **2005d:81240**

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Talalov, S. V. Classical interacting fields: a model outside the Lagrangian formulation. (Russian. English and Russian summaries) **2005i:81093**

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de la Torre Mayado, M. *see* **Alonso Izquierdo, A. et al., 2005a:81132**

Tóth, Gábor Zsolt A nonperturbative study of phase transitions in the multi-frequency sine-Gordon model. (English summary) **2005k:81167**

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Valtancoli, P. Space-time noncommutativity and the $(1 + 1)$ Higgs model. (English summary) **2005j:81111**

Verbaarschot, J. J. M. *see* **Splittorff, K., 2005d:81240**

Vlachos, N. D. *see* **Ioannidou, Theodora, 2005d:81238**

Vladimirov, V. S. (*with* Volovich, Yaroslav) On a nonlinear equation of dynamics in p-adic string theory. (Russian. Russian summary) **2005d:81241**

Volovich, Yaroslav *see* **Vladimirov, V. S., 2005d:81241**

Wang, Yong-Long (*with* Li, Zi Ping) Quantal symmetries in the non-linear sigma model with Maxwell-Chern-Simons term. (English summary) **2005g:81188**

Ward, R. S. *see* **Piette, B. M. A. G., 2005i:81092**

Weigt, Gerhard *see* **Dzhordzhadze, G. P., 2005d:81237**

Wereszczyński, A. Nested multi-soliton solutions with arbitrary Hopf index. (English summary) **2005g:81189**

— Integrability and Hopf solitons in models with explicitly broken O(3) symmetry. (English summary) **2005h:81212**

— Toroidal soliton solutions in $O(3)^N$ nonlinear sigma model. (English summary) **2005g:81190**

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Adam, Christoph (*with* Sánchez-Guillén, Joaquin) Ring-shaped exact Hopf solitons. (English summary) **2005e:58031**

de Albuquerque, Luiz C. (*with* Cavalcanti, R. M.) Casimir effect for the scalar field under Robin boundary conditions: a functional integral approach. (English summary) **2005c:81145**

Alexandre, Jean Non-renormalization for planar Wess-Zumino model. (English summary) **2005b:81105**

Alonso Izquierdo, A. (*with* González León, M. A.; de la Torre Mayado, M.; Mateos Guilarte, J.) Changing shapes: adiabatic dynamics of composite solitary waves. (English summary) **2005h:35298**

Ammari, Zied Scattering theory for a class of fermionic Pauli-Fierz models. (English summary) **2005g:81341**

Atanasova, L. (*with* Furlan, P.; Hadjiivanov, L.) Zero modes of the $SU(2)_k$ Wess-Zumino-Novikov-Witten model in Euler angles parametrization. (English summary) **2005h:81321**

Bajnok, Zoltán (*with* Böhm, Gabriella; Takács, Gábor) On perturbative quantum field theory with boundary. (English summary) **2005e:81151**

Barton, Gabriel Casimir's spheres near the Coulomb limit: energy density, pressures and radiative effects. (English summary) **2005b:82090**

— Corrigendum: "Casimir's spheres near the Coulomb limit: energy density, pressures and radiative effects" [J. Phys. A. **37** (2004), no. 11, 3725–3741; MR2042153 (2005b:82090)]. (English summary)

Basu-Mallick, B. (*with* Bhattacharyya, Tanaya) Exact solvability and quantum integrability of a derivative nonlinear Schrödinger model. (English summary) **2005e:81090**

Bhattacharyya, Tanaya Quantum integrability of bosonic massive Thirring model in continuum. (English summary) **2005j:81071**

— *see also* **Basu-Mallick, B., 2005e:81090**

Bietenholz, Wolfgang (*with* Hofheinz, Frank; Nishimura, Jun[1]) The non-commutative $\lambda\varphi^4$ model. (English summary) **2005b:81208**

Blas Achic, H. S. Higher grading conformal affine Toda theory and (generalized) sine-Gordon/massive Thirring duality. (English summary) **2005e:81091**

Böhm, Gabriella *see* **Bajnok, Zoltán et al., 2005e:81151**

Bowcock, P. (*with* Corrigan, Edward; Zambon, C.) Classically integrable field theories with defects. (English summary) **2005j:81072**

Boyarskiĭ, A. M. (*with* Cheianov, Vadim V.; Ruchayskiy, Oleg) Fermions in the harmonic potential and string theory. (English summary) **2005k:81215**

Bracken, Paul An integrable model with soliton solutions which have applications to two-dimensional gravity. (English summary) **2005k:81112**

Brunetti, Romeo (*with* Fredenhagen, Klaus; Verch, Rainer) The generally covariant locality principle—a new paradigm for local quantum field theory. (English summary) **2005a:81128**

Caicedo, M. I. (*with* Svaiter, N. F.) Effective Lagrangians for scalar fields and finite size effects in field theory. (English summary) **2005a:81147**

Cantcheff, Marcelo Botta *see* **Scarpelli, A. P. Baêta et al., 2005a:81148**

Capovilla, R. (*with* Guven, Jemal) Helfrich-Canham bending energy as a constrained nonlinear sigma model. (English summary) **2005k:81169**

Cavalcanti, R. M. *see* **de Albuquerque, Luiz C., 2005c:81145**

Cheianov, Vadim V. *see* **Boyarskiĭ, A. M. et al., 2005k:81215**

Cho, Yoshinori (*with* Kan, Nahomi; Shiraishi, Kiyoshi) Compactification in deconstructed gauge theory with topologically non-trivial link fields. (English summary) **2005f:81146**

Corrigan, Edward Integrable models with boundaries and defects. (*see* **2005j:00020**)

— *see also* **Bowcock, P. et al., 2005j:81072**

Denk, S. (*with* Putz, V.; Schweda, M.; Wohlgenannt, Michael) Towards UV finite quantum field theories from non-local field operators. (English summary) **2005b:81113**

Dobrescu, Bogdan A. (*with* Pontón, Eduardo) Chiral compactification on a square. (English summary) **2005b:83092**

Dzhordzhadze, G. P. (*with* Weigt, Gerhard) Correlation functions and vertex operators of Liouville theory. (English summary) **2005g:81273**

Eilbeck, J. C. (*with* Ènol′skiĭ, V. Z.; Holden, Helge) The hyperelliptic ζ-function and the integrable massive Thirring model. (English summary) **2005g:81140**

Ènol′skiĭ, V. Z. *see* **Eilbeck, J. C. et al., 2005g:81140**

Fateev, V. A. (*with* Lashkevich, M.) Form factors of exponential fields for two-parametric family of integrable models. (English summary) **2005f:81092**
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Froggatt, Colin D. (*with* Nielsen, Holger B.) Derivation of Poincaré invariance from general quantum field theory. (English summary) **2005m:81170**
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Georgiev, Lachezar S. A universal conformal field theory approach to the chiral persistent currents in the mesoscopic fractional quantum Hall states. (English summary) **2005j:81212**
Gomis, Joaquim (*with* Kamimura, Kiyoshi; Ramírez, Toni) Physical reduced phase space of non-local theories. (English summary) **2005d:81282**
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Holden, Helge *see* **Eilbeck, J. C. et al., 2005g:81140**
Iucci, Aníbal (*with* Naón, Carlos) A non-covariant fermionic determinant and its connection to Luttinger systems. (English summary) **2005h:81225**
Joyce, William P. Quark state confinement as a consequence of the extension of the Bose-Fermi recoupling to SU(3) colour. (English summary) **2005a:81087**
Jurčo, Branislav Large-N and Bethe ansatz. (English summary) **2005e:82016**
Kamimura, Kiyoshi *see* **Gomis, Joaquim et al., 2005d:81282**
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Khastgir, S. Pratik Affine Toda field theory from tree unitarity. (English summary) **2005h:81162**
Khvedelidze, A. M. (*with* Kovner, Alex; McMullan, David) The Higgs field and the ultraviolet behaviour of the vortex operator in $2+1$ dimensions. (English summary) **2005f:81296**
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Lechtenfeld, Olaf Noncommutative sine-Gordon model. (English summary) **2005m:81325**
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Lukyanov, S. L. (*with* Vitchev, E. S.; Zamolodchikov, Aleksandr B.) Integrable model of boundary interaction: the paperclip. (English summary) **2005f:81212**
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Miramontes, J. Luis T-duality in massive integrable field theories: the homogeneous and complex sine-Gordon models. (English summary) **2005g:81142**
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Scarpelli, A. P. Baêta (*with* Cantcheff, Marcelo Botta; Helayël-Neto, J. A.) A comment on the relation between the propagators of dual theories. (English summary) **2005a:81148**
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de la Torre Mayado, M. *see* **Alonso Izquierdo, A. et al., 2005h:35298**
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Zelditch, Steve Macdonald's identities and the large N limit of YM_2 on the cylinder. (English summary) **2005g:81198**
Zuevsky, A. Continual Lie algebras and noncommutative counterparts of exactly solvable models. (English summary) **2005e:81111**

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Aharony, Ofer (*with* Marsano, Joseph; Minwalla, Shiraz; Papadodimas, Kyriakos; Van Raamsdonk, Mark) The deconfinement and Hagedorn phase transitions in weakly coupled large N gauge theories. (English and French summaries) **2005k:81168**
Al'beverio, S. (*with* Fei, Shao Ming; Kurasov, Pavel) Gauge fields, point interactions and few-body problems in one dimension. (English summary) **2005g:81191**
Aldaya, V. (*with* Jaramillo, J. L.; Becerra Guerrero, Julio) Gauge principle revisited: towards a unification of space-time and internal gauge interactions. (English summary) **2005a:81137**
Alimohammadi, Masoud (*with* Khorrami, Mohammad) Large-N limit of the two-dimensional Yang-Mills theory on surfaces with boundaries. (English summary) **2005c:81132**
Almeida, C. A. S. *see* **Mendes, K. C. et al.**
Anco, Stephen C. Gauge theory deformations and novel Yang-Mills Chern-Simons field theories with torsion. (English summary) **2005e:81138**
Armoni, Adi (*with* Shifman, M.; Veneziano, Gabriele) Exact results in non-supersymmetric large N orientifold field theories. (English summary) **2005d:81242**
— (*with* Shifman, M.; Veneziano, Gabriele) Exact results in a non-supersymmetric gauge theory. (English summary) **2005c:81133**
Asorey, Manuel Yang-Mills quantum theory: mass generation. (Spanish. Spanish summary) (*see* **2005j:00009**)
— Vacuum energy and θ-vacuum. (English summary) **2005f:81144**
Auzzi, Roberto (*with* Bolognesi, Stefano; Evslin, Jarah; Konishi, Kenichi; Murayama, Hitoshi) Non-abelian monopoles. (English summary) **2005h:81213**
van Baal, Pierre *see* **Bruckmann, Falk et al., 2005g:81193**
Baleanu, Dumitru Variational formulation of the Schrödinger field. (English summary)
Banerjee, Rabin A note on duality symmetry in non-linear gauge theories. (English summary) **2005a:81138**
Bauer, Florian (*with* Lindner, Manfred; Seidl, Gerhart) Casimir energy in deconstruction and the cosmological constant. (English summary) **2005c:81134**
Becerra Guerrero, Julio *see* **Aldaya, V. et al., 2005a:81137**
Belich, H., Jr. (*with* Ferreira, M. M., Jr.; Helayël-Neto, J. A.; Orlando, M. T. D.) Erratum: "Dimensional reduction of a Lorentz- and CPT-violating Maxwell-Chern-Simons model" [Phys. Rev. D (3) **67** (2003), no. 12, 125011, 10 pp; MR2010222 (2004h:81143)]. **2005g:81192**
Biró, Tamas S. (*with* Müller, Berndt; Matinyan, Sergei G.) Chaotic quantization: maybe the lord plays dice, after all? (English summary) (*see* **2005c:81005**)
Bolognesi, Stefano *see* **Auzzi, Roberto et al., 2005h:81213**
Bolokhov, T. A. (*with* Faddeev, L. D.) Infrared variables for the SU(3) Yang-Mills field. (Russian. Russian summary) **2005c:81135**
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— (*with* Nógrádi, Dániel; van Baal, Pierre) Higher charge calorons with non-trivial holonomy. (English summary) **2005g:81193**
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— Doublet groups, extended Lie algebras, and well defined gauge theories for the two-form field. (English summary) **2005m:81201**
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D'Adda, Alessandro (*with* Provero, P.) Two-dimensional gauge theories of the symmetric group S_n in the large-n limit. (English summary) **2005b:81098**
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Engelhardt, Michael *see* **Bruckmann, Falk, 2005b:81096**
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Guven, Jemal *see* **Capovilla, R., 2005k:81169**
Haba, Naoyuki (*with* Hosotani, Yutaka; Kawamura, Yoshiharu) Classification and dynamics of equivalence classes in SU(N) gauge theory on the orbifold S^1/Z_2. (English summary) **2005k:81170**
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— *see also* **Haba, Naoyuki et al., 2005k:81170** *and* **Kihara, Hironobu et al., 2005k:81172**
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Khater, A. H. (*with* Callebaut, D. K.; Shehata, R. M.; Sayed, S. M.) Self-dual solutions for SU(2) and SU(3) gauge fields on Euclidean space. (English summary) **2005e:81142**
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Khvedelidze, A. M. On the Hamiltonian formulation of gauge theories in terms of physical variables. (English summary) **2005h:81216**
Kihara, Hironobu (*with* Hosotani, Yutaka; Nitta, Muneto) Generalized monopoles in six-dimensional non-abelian gauge theory. (English summary) **2005k:81172**
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Kim, Yong-Wan (*with* Lee, Chang-Yeong; Kim, Seung-Kook; Park, Young-Jai) Symplectic embedding of a massive vector-tensor theory with topological coupling. (English summary) **2005b:81099**
Kleihaus, Burkhard (*with* Kunz, Jutta; Shnir, Yasha) Monopoles, antimonopoles and vortex rings. (English summary) **2005a:81142**
Kokubo, Yousuke *see* **Deguchi, Shinichi, 2005a:81140**
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Krusch, S. (*with* Sutcliffe, Paul M.) Sphalerons in the Skyrme model. (English summary) **2005d:81245**
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Kurasov, Pavel *see* **Al'beverio, S. et al., 2005g:81191**
Kuusk, Piret Yangi-Mills theory and mass gap. (Estonian) (*see* **2005b:00017**)
Kuvshinov, V. I. (*with* Kuzmin, Andrei Vladimirovich; Piatrou, V. A.) The influence of quantum field fluctuations on chaotic dynamics of Yang-Mills system. II. The role of the centrifugal term. (English summary) **2005d:81246**
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Lee, Chang-Yeong *see* **Kim, Yong-Wan et al., 2005b:81099**
Lee, Sangmin On the geometry of coset models with flux. (English summary) **2005a:81143**
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Lindner, Manfred *see* **Bauer, Florian et al., 2005c:81134**
Liu, Yun[1] (*with* Li, Rui Jie; Li, Zi Ping) Non-local Ward identity in configuration space. (Chinese. English and Chinese summaries) **2005d:81247**
Loewe, Marcelo (*with* Mendizabal, S.; Rojas, J. C.) Topological field configurations in the presence of isospin chemical potential. (English summary) **2005h:81217**
Loginov, E. K. Self-dual Yang-Mills fields in pseudo-Euclidean spaces. (English summary) **2005e:81143**
Lucini, Biagio (*with* Teper, Michael; Wenger, Urs) Glueballs and k-strings in SU(N) gauge theories: calculations with improved operators. (English summary) **2005c:81138**
MacKay, Niall J. (*with* Young, Charles A. S.) Classically integrable boundary conditions for symmetric-space sigma models. (English summary) **2005a:81144**
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Matinyan, Sergei G. *see* **Biró, Tamas S. et al., (2005c:81005)**
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Singleton, Douglas (*with* Kato, Akira; Yoshida, A.) Gauge procedure with gauge fields of various ranks. (English summary)
Smiseth, J. *see* **Smørgrav, E. et al., 2005f:81148**
Smørgrav, E. (*with* Smiseth, J.; Sudbø, A.; Nogueira, F. S.) Phase structure of abelian Chern-Simons gauge theories. **2005f:81148**
Sorella, S. P. *see* **Lemes, V. E. R. et al., 2005b:81100**
Strocchi, F. Relativistic quantum mechanics and field theory. (English summary) **2005a:81145**
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— (*with* Mariño, Marcos; Vafa, Cumrun) All loop topological string amplitudes from Chern-Simons theory. (English summary) **2005g:81284**
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— (*with* Feng, Bo[1]; Ookouchi, Yutaka) Phases of $\mathcal{N}=1$ $USp(2N_c)$ gauge theories with flavors. (English summary) **2005e:81222**
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Arias, P. J. (*with* Fuenmayor, E.; Leal, Lorenzo) Interacting particles and strings in path and surface representations. (English summary)
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Atanasova, L. (*with* Furlan, P.; Hadjiivanov, L.) Zero modes of the $SU(2)_k$ Wess-Zumino-Novikov-Witten model in Euler angles parametrization. (English summary) **2005h:81321**
Avramidi, Ivan G. Gauged gravity via spectral asymptotics of non-Laplace type operators. (English summary) **2005h:58038**
Awad, Adel M. *see* **Argyres, Philip C. et al., 2005k:81297**
Azuma, Takehiro (*with* Nagao, Keiichi; Nishimura, Jun[1]; Bal, Subrata) Absence of a fuzzy S^4 phase in the dimensionally reduced 5d Yang-Mills-Chern-Simons model. (English summary) **2005e:81243**
Bal, Subrata *see* **Azuma, Takehiro et al., 2005e:81243**
Balasubramanian, Vijay (*with* de Boer, Jan; Feng, Bo[1]; He, Yang Hui; Huang, Min-xin; Jejjala, Vishnu; Naqvi, Asad) Multi-trace superpotentials vs. matrix models. (English summary) **2005b:81185**
— (*with* Feng, Bo[1]; Huang, Min-xin; Naqvi, Asad) Phases of $\mathcal{N}=1$ supersymmetric gauge theories with flavors. (English summary) **2005g:81296**
Bañados, Máximo (*with* Schwimmer, Adam; Theisen, Stefan) Chern-Simons gravity and holographic anomalies. (English summary) **2005d:81321**
Banerjee, Rabin Gauge theories on sphere and Killing vectors. (English summary) **2005e:53118**
— (*with* Kumar, Kuldeep[2]) Maps for currents and anomalies in noncommutative gauge theories. (English summary) **2005m:81320**
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Barbosa, A. L. *see* **Aldrovandi, R. et al., 2005i:81190**
Barnich, Glenn (*with* Brandt, Friedemann; Grigor′ev, M. A.) Local BRST cohomology and Seiberg-Witten maps in noncommutative Yang-Mills theory. (English summary) **2005d:81348**
Barresi, A. (*with* Burgio, Giuseppe[2]; D'Elia, M.; Müller-Preussker, M.) A finite temperature investigation of dual superconductivity in the modified $SO(3)$ lattice gauge theory. (English summary)
Basu, Anirban (*with* Green, Michael B.; Sethi, Savdeep) A curious truncation of $N=4$ supersymmetric Yang-Mills theory. (English summary) **2005h:81349**
Beisert, Niklas Higher-loop integrability in $\mathcal{N}=4$ gauge theory. (English and French summaries) **2005m:81296**
— (*with* Bianchi, Massimo; Morales, José Francisco; Samtleben, Henning) On the spectrum of AdS/CFT beyond supergravity. (English summary) **2005b:83109**
— (*with* Bianchi, Massimo; Morales, José Francisco; Samtleben, Henning) Higher spin symmetry and $\mathcal{N}=4$ SYM. (English summary) **2005k:81299**
— (*with* Dippel, Virginia; Staudacher, Matthias) A novel long-range spin chain and planar $\mathcal{N}=4$ super Yang-Mills. (English summary) **2005g:81297**
Bekaert, Xavier (*with* Boulanger, Nicolas) Tensor gauge fields in arbitrary representations of $GL(D,\mathbb{R})$. Duality and Poincaré lemma. (English summary) **2005e:81154**
Belhaj, Adil *see* **Ahl Laamara, R. et al., 2005f:81234**
Belitsky, A. V. (*with* Braun, V. M.; Gorskiĭ, A. S.; Korchemsky, G. P.) Integrability in QCD and beyond. (English summary) **2005h:81350**
— (*with* Derkachov, S. É.; Korchemsky, G. P.; Manashov, A. N.) Quantum integrability in (super) Yang-Mills theory on the light-cone. (English summary) **2005e:81227**
— (*with* Derkachov, S. É.; Korchemsky, G. P.; Manashov, A. N.) Superconformal operators in $\mathcal{N}=4$ super-Yang-Mills theory. (English summary) **2005h:81351**
— (*with* Derkachov, S. É.; Korchemsky, G. P.; Manashov, A. N.) Dilatation operator in (super-)Yang-Mills theories on the light-cone. (English summary) **2005j:81175**
Bellucci, Stefano (*with* Casteill, P.-Y.; Morales, José Francisco; Sochichiu, C.) Spin bit models from non-planar $\mathcal{N}=4$ SYM. (English summary) **2005d:81327**
Belvedere, L. V. *see* **Natividade, C. P. et al., 2005g:81326**
Benini, Francesco The Coulomb branch of the Leigh-Strassler deformation and matrix models. (English summary) **2005k:81300**
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Berkovits, Nathan Self-dual super-Yang-Mills as a string theory in (x,θ) space. (English summary) **2005g:81299**
Bern, Zvi (*with* Dixon, Lance J.; Kosower, David A.) $\mathcal{N}=4$ super-Yang-Mills theory, QCD and collider physics. (English and French summaries) **2005k:81301**
— (*with* Del Duca, Vittorio; Dixon, Lance J.; Kosower, David A.) All non-maximally-helicity-violating one-loop seven-gluon amplitudes in $\mathcal{N}=4$ super-Yang-Mills theory. (English summary) **2005k:81183**
Bianchi, Massimo Higher spin symmetry (breaking) in $\mathcal{N}=4$ SYM and holography. (English and French summaries) **2005k:81302**
— (*with* Rossi, Giancarlo; Stanev, Yassen S.) Surprises from the resolution of operator mixing in $\mathcal{N}=4$ SYM. (English summary) **2005c:81196**
— *see also* **Beisert, Niklas et al., 2005b:83109** *and* **2005k:81299**
Bilge, Ayşe Hümeyra (*with* Dereli, Tekin; Koçak, Şahin) Monopole equations on 8-manifolds with Spin(7) holonomy: an overview of the energy integral. (English summary) **2005d:53035**
Billó, Marco (*with* Frau, Marialuisa; Pesando, Igor; Lerda, Alberto) $\mathcal{N}=1/2$ gauge theory and its instanton moduli space from open strings in R-R background. (English summary) **2005f:81237**
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de Boer, Jan *see* **Balasubramanian, Vijay et al., 2005b:81185**
Bolognesi, Stefano (*with* Konishi, Kenichi; Marmorini, Giacomo) Light non-abelian monopoles and generalized r-vacua in supersymmetric gauge theories. (English summary) **2005m:81298**
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— *see also* **Bekaert, Xavier**, **2005e:81154**
Bouzas, Antonio O. (*with* Méndez Gamboa, José) Rotating frames and gauge invariance in three-dimensional many-body quantum systems. (English summary) **2005k:81374**
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— (*with* Radu, Eugen[2]; Tchrakian, Tigran D. H.) Regular and black hole solutions to higher order curvature Einstein-Yang-Mills-Grassmannian systems in five dimensions. (English summary) **2005f:83084**
— (*with* Clement, Fabien; Hartmann, Betti) Spherically symmetric Yang-Mills solutions in a $(4 + n)$-dimensional space-time. (English summary) **2005h:83177**
— (*with* Ioannidou, Theodora) SU(5) gravitating monopoles. (English summary) **2005m:83022**
— (*with* Radu, Eugen[2]) Gravitating Yang-Mills dyon vortices in $4 + 1$ spacetime dimensions. (English summary) **2005h:83178**
— (*with* Hartmann, Betti; Radu, Eugen[2]) Boson stars in SU(2) Yang-Mills scalar field theories. (English summary) **2005h:81240**
Brink, Lars *see* **Ananth, Sudarshan et al.**, **2005d:81325**
de Brito, L. C. T. (*with* Gomes, Marcelo O. C.; Perez, Silvana; da Silva, A. J.) Radiative corrections to the Chern-Simons term at finite temperature in the noncommutative Chern-Simons-Higgs model. (English summary) **2005g:81328**
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Bruzzo, Ugo (*with* Fucito, Francesco) Superlocalization formulas and supersymmetric Yang-Mills theories. (English summary) **2005a:81214**
Buchel, Alex (*with* Liu, James T.; Starinets, Andrei O.) Coupling constant dependence of the shear viscosity in $\mathcal{N} = 4$ supersymmetric Yang-Mills theory. (English summary) **2005h:81354**
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Bukhbinder, I. L. (*with* Ivanov, Evgeniĭ Alekseevich[2]; Samsonov, I. B.; Zupnik, B. M.) Scale invariant low-energy effective action in $\mathcal{N} = 3$ SYM theory. (English summary) **2005a:81215**
Burgio, Giuseppe[2] *see* **Barresi, A. et al.**
Burić, Maja (*with* Radovanović, Voja) On divergent 3-vertices in noncommutative SU(2) gauge theory. (English summary) **2005h:81393**
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Burshtyn, Dmitri (*with* Elitzur, Shmuel; Mandelbaum, Yaakov) Probing orientifold behavior near NS branes. (English summary) **2005k:81216**
Bytsenko, Andrei A. (*with* Guimarães, M. E. X.; Mendes, V. S.) Casimir effect for gauge fields in spaces with negative constant curvature. (English summary)
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— (*with* Svrček, Peter; Witten, Edward) MHV vertices and tree amplitudes in gauge theory. (English summary) **2005k:81185**
— (*with* Svrček, Peter; Witten, Edward) Gauge theory amplitudes in twistor space and holomorphic anomaly. (English summary) **2005k:81184**
Cahill, Kevin *see* **Serna, Mario**, **2005d:53126**
Cantcheff, Marcelo Botta On the group structure of the Kalb-Ramond gauge symmetry and spinor representations. (English summary) **2005c:81090**
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Castro, Carlos[1] On the large N limit, Wilson loops, confinement and composite antisymmetric tensor field theories. (English summary) **2005f:81175**
Chae, Dongho (*with* Choe, Kwangseok) Existence of the self-gravitating Chern-Simons vortices. (English summary) **2005c:58035**
Chang, Nai-Heng (*with* Pashaev, O. K.) The Cauchy problem for the planar spin-liquid model. (English summary) **2005k:35371**
Chen, Chiun-Chuan (*with* Lin, Chang-Shou; Wang, Guofang) Concentration phenomena of two-vortex solutions in a Chern-Simons model. (English summary) **2005m:58033**
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— *see also* **Chae, Dongho**, **2005c:58035**
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Chruściński, Dariusz Quantization conditions and p-form electrodynamics. (English summary) **2005b:81201**
Cioroianu, Eugen Mihăiță (*with* Săraru, S. C.) Two-dimensional interactions between a BF-type theory and a collection of vector fields. (English summary) **2005g:81322**
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Colladay, Don (*with* McDonald, Patrick) Yang-Mills instantons with Lorentz violation. (English summary) **2005m:58029**
Constantinidis, Clisthenis P. (*with* Piguet, Olivier; Spalenza, Wesley) Superspace gauge fixing of topological Yang-Mills theories. (English summary) **2005e:81214**
Corichi, Alejandro (*with* Cortez, Jerónimo) Note on self-duality and the Kodama state. (English summary) **2005e:81215**
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— *see also* **Aldrovandi, L. G. et al.**, **2005j:81173**
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Csáki, Csaba (*with* Meade, Patrick; Terning, John) A mixed phase of SUSY gauge theories from a-maximization. (English summary) **2005b:81190**
Das, Ashok (*with* Frenkel, Josif) Kontsevich product and gauge invariance. (English summary) **2005f:81258**
David, Justin R. (*with* Gava, Edi; Narain, Kumar S.) Partial $\mathcal{N} = 2 \to \mathcal{N} = 1$ supersymmetry breaking and gravity deformed chiral rings. (English summary) **2005i:81160**
Dayi, Ömer F. (*with* Yapişkan, Barış) Equivalence of partition functions for noncommutative U(1) gauge theory and its dual in phase space. (English summary) **2005i:81175**
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Demidov, S. V. (*with* Dubovskiĭ, S. L.; Rubakov, V. A.; Sibiryakov, S. M.) Solitons in gauge theory on a noncommutative cylinder. (Russian. Russian summary) **2005a:81242**
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Dijkgraaf, Robbert (*with* Grisaru, Marcus T.; Ooguri, Hirosi; Vafa, Cumrun; Zanon, Daniela) Planar gravitational corrections for supersymmetric gauge theories. (English summary) **2005f:81240**
Di Napoli, Edoardo (*with* Kaplunovsky, Vadim S.; Sonnenschein, Jacob) Chiral rings of deconstructive $[SU(n_c)]^N$ quivers. (English summary) **2005h:81359**
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Doudoulakis, C. G. Antiperiodic solitons of the Goldstone model on S^1. (English summary) **2005g:37137**
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— (*with* Francaviglia, Mauro) ★ Natural and gauge natural formalism for classical field theories. **2005f:58015**
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Feng, Bo[1] *see* **Ahn, Changhyun et al.**, **2005b:81183**; **2005e:81222**; **2005h:81347**; **Balasubramanian, Vijay et al.**, **2005b:81185** *and* **2005g:81296**
Ferrari, A. F. (*with* Girotti, H. O.; Gomes, Marcelo O. C.; Petrov, A. Yu.; Ribeiro, Anderson André Genro; da Silva, A. J.) On the consistency of the three-dimensional noncommutative supersymmetric Yang-Mills theory. (English summary) **2005g:81199**
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— (*with* Fucito, Francesco; Morales, José Francisco; Poghossian, Rubik) Matone's relation in the presence of gravitational couplings. (English summary) **2005h:81338**
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— (*with* Morales, José Francisco; Poghossian, Rubik) Multi-instanton calculus on ALE spaces. (English summary) **2005h:53034**
— *see also* **Bruzzo, Ugo, 2005a:81214** *and* **Flume, Rainald et al., 2005h:81338**
Fuenmayor, E. *see* **Arias, P. J. et al.**
Fuji, Hiroyuki (*with* Mizoguchi, Shun'ya) Remarks on phase transitions in Matrix models and $\mathcal{N}=1$ supersymmetric gauge theory. (English summary) **2005a:81218**
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Furlan, P. *see* **Atanasova, L. et al., 2005h:81321**
Gabadadze, Gregory (*with* Grisa, Luca) Lorentz-violating massive gauge and gravitational fields. (English summary) **2005m:83097**
Gamboa, Jorge (*with* Loewe, Marcelo; Méndez, Fernando) Quantum theory of tensionless noncommutative p-branes. (English summary) **2005h:81397**
Gava, Edi *see* **David, Justin R. et al., 2005i:81160**
Gawędzki, Krzysztof (*with* Todorov, Ivan T.; Tran-Ngoc-Bich, Pascal) Canonical quantization of the boundary Wess-Zumino-Witten model. (English summary) **2005i:81152**
Georgiou, George (*with* Khoze, Valentin V.) Tree amplitudes in gauge theory as scalar MHV diagrams. (English summary) **2005g:81208**
— (*with* Glover, E. W. Nigel; Khoze, Valentin V.) Non-MHV tree amplitudes in gauge theory. (English summary) **2005h:81236**
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Ghosh, Subir Maxwell-Chern-Simons theory is free for marginally noncommutative spacetimes. (English summary) **2005c:81227**
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Gorskiĭ, A. S. *see* **Belitsky, A. V. et al., 2005h:81350**
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Gowdigere, Chethan N. (*with* Nemeschansky, Dennis; Warner, Nicholas P.) Supersymmetric solutions with fluxes from algebraic Killing spinors. (English summary) **2005b:81192**
Grassi, Pietro Antonio (*with* Ricci, Riccardo[2]; Robles-Llana, Daniel) Instanton calculations for $N=1/2$ super Yang-Mills theory. (English summary) **2005d:81335**
— (*with* Hurth, Tobias; Quadri, Andrea) Landau background gauge fixing and the IR properties of Yang-Mills Green functions. (English summary) **2005h:81222**
Grasso, Darren T. Higher order contributions to the effective action of $\mathcal{N}=2$ super Yang-Mills. (English summary) **2005g:81304**
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Grimstrup, Jesper Møller Noncommutative coordinate transformations and the Seiberg-Witten map. (English summary) **2005c:81230**
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Guo, Han-Ying *see* **Ling, Yi[3] et al., 2005j:83136**
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Hadasz, Leszek (*with* Lindström, Ulf; Roček, Martin; von Unge, Rikard) Time dependent solitons of noncommutative Chern-Simons theory coupled to scalar fields. (English summary) **2005g:81329**
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— (*with* Nitta, Muneto; Ohashi, Keisuke; Sakai, Norisuke) Construction of non-abelian walls and their complete moduli space. (English summary) **2005h:81371**
— (*with* Nitta, Muneto; Ohashi, Keisuke; Sakai, Norisuke) All exact solutions of a 1/4 Bogomol′nyi-Prasad-Sommerfield equation. (English summary) **2005m:81307**
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Jack, Ian (*with* Jones, D. R. T.; Worthy, L. A.) One-loop renormalisation of $N=1/2$ supersymmetric gauge theory. (English summary) **2005j:81114**
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— (*with* Kuroki, Tsunehide; Morita, Takeshi; Yoshida, Kensuke) Direct derivation of the Veneziano-Yankielowicz superpotential from matrix model. (English summary)

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Kennaway, Kristian D. (*with* Warner, Nicholas P.) Effective superpotentials, geometry and integrable systems. (English summary) **2005g:81306**
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— (*with* Sasaki, Shin) Non-anticommutative $N = 2$ supersymmetric SU(2) gauge theory. (English summary) **2005e:81234**
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— *see also* **Ibadov, Rustam et al., 2005h:83026**
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Kotikov, A. V. (*with* Lipatov, L. N.; Velizhanin, V. N.) DGLAP and BFKL equations in $N = 4$ supersymmetric gauge theory. (English summary)
— (*with* Lipatov, L. N.; Onishchenko, A. I.; Velizhanin, V. N.) Three-loop universal anomalous dimension of the Wilson operators in $\mathcal{N} = 4$ SUSY Yang-Mills model. (English summary) **2005g:81307**
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Kristjansen, Charlotte Quantum mechanics, random matrices and BMN gauge theory. (English summary) **2005c:81171**
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— Exact propagators in harmonic superspace. (English summary) **2005f:81249**
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Lucini, Biagio (*with* Teper, Michael; Wenger, Urs) Properties of the deconfining phase transition in $SU(N)$ gauge theories. (English summary) **2005m:81225**
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— *see also* **Klebanov, Igor R., 2005m:81263**
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— *see also* **Baptista, J. M., 2005b:58023**
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— *see also* **Aganagic, Mina et al., 2005g:81284**
Markov, Vladimir N. (*with* Marshakov, Andrei; Yung, A.) Non-abelian vortices in $\mathcal{N} = 1^*$ gauge theory. (English summary) **2005i:81165**
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Meng, Xin-He (*with* Wang, Peng[2]) Cosmological dynamics of D-cceleration. (English summary) **2005c:81210**
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Mesref, L. A map between q-deformed and ordinary gauge theories. (English summary) **2005e:81249**
Meyer, Harvey (*with* Teper, Michael) Confinement and the effective string theory in $SU(N \to \infty)$: a lattice study. (English summary) **2005k:81199**
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Movshev, M. (*with* Schwarz, Albert S.) On maximally supersymmetric Yang-Mills theories. (English summary) **2005i:81167**

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Müller-Preussker, M. *see* **Barresi, A. et al.**

Mülsch, D. (*with* Geyer, Bodo) Cohomological extension of Spin(7)-invariant super-Yang-Mills theory in eight dimensions. (English summary) **2005c:81192**

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Nair, V. P. (*with* Yelnikov, A.) On the invariant measure for the Yang-Mills configuration space in $(3+1)$ dimensions. (English summary) **2005e:58014**

Nakazawa, Naohito $\mathcal{N}=1$ supersymmetric Yang-Mills theory in Itō calculus. (English summary) **2005e:81236**

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Narain, Kumar S. *see* **David, Justin R. et al., 2005i:81160**

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Natividade, C. P. (*with* Boschi-Filho, Henrique; Belvedere, L. V.) BFFT formalism applied to the minimal chiral Schwinger model. (English summary) **2005g:81326**

Ne'eman, Yuval Geometrization of spontaneously broken gauge symmetries. (Russian. Russian summary) **2005e:81108**

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— Solution of $\mathcal{N}=2$ theories via instanton counting. (English summary) **2005d:81343**

— Noncommutative instantons revisited. (English summary) **2005b:81076**

— (*with* Shadchin, Sergey) ABCD of instantons. (English summary) **2005m:81308**

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Nesterov, A. I. Towards nonassociative gauge theories. (English and Spanish summaries) **2005d:53125**

— (*with* Aceves de la Cruz, Fermín) On representations of the rotation group and magnetic monopoles. (English summary) **2005e:81085**

Neuberger, H. *see* **Narayanan, Rajamani S., 2005d:81199**

Neves, C. (*with* Oliveira, Wilson; Rodrigues, D. C.; Wotzasek, C.) Hamiltonian symplectic embedding of the massive noncommutative U(1) theory. (English summary) **2005f:81268**

Ney, Wander G. (*with* Piguet, Olivier; Spalenza, Wesley) Gauge fixing of Chern-Simons N-extended supergravity. (English summary) **2005c:81220**

Niemi, Antti J. Three-dimensional gravity from SU(2) Yang-Mills theory in two dimensions. (English summary) **2005h:83155**

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Nishimura, Jun[1] *see* **Azuma, Takehiro et al., 2005e:81243**

Nishino, Hitoshi (*with* Rajpoot, Subhash) Self-dual vector multiplet in 3D with gauged scale covariance. (English summary) **2005k:81323**

Nitta, Muneto *see* **Eto, Minoru et al., 2005f:81242; Isozumi, Youichi et al., 2005h:81371; 2005j:81184; 2005m:81307** *and* **Arai, Masato et al., 2005m:81295**

Nurmagambetov, Aleksei The sigma-model representation for the duality-symmetric $D=11$ supergravity. (English summary) **2005c:83087**

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Okuda, Takuya *see* **Halmagyi, Nick et al., 2005j:81172**

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Onishchenko, A. I. *see* **Kotikov, A. V. et al., 2005g:81307**

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— *see also* **Ahn, Changhyun et al., 2005a:81207; 2005b:81183; 2005e:81222** *and* **2005h:81347**

Oprişan, C. D. (*with* Zet, G.) Solutions of the de Sitter gauge theory. (English summary) **2005m:83109**

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Pashaev, O. K. *see* **Chang, Nai-Heng, 2005k:35371**

Patir, Assaf (*with* Reichmann, Dori) The effective potential of the $\mathcal{N}=0^*$ Yang-Mills theory. (English summary) **2005c:81213**

Paturyan, Vanush (*with* Radu, Eugen[2]; Tchrakian, Tigran D. H.) Rotating regular solutions in Einstein-Yang-Mills-Higgs theory. (English summary) **2005h:83028**

Penati, Silvia (*with* Romagnoni, Alberto) Covariant quantization of $N=\frac{1}{2}$ SYM theories and supergauge invariance. (English summary) **2005k:81325**

— *see also* **Lechtenfeld, Olaf et al., 2005i:81058**

Pereira, J. G. *see* **Aldrovandi, R. et al., 2005i:81190**

Peretto, P. Space-time generated from a set of binary units. (English summary) **2005d:81112**

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Prakash, Nirmala ★ Mathematical perspectives on theoretical physics. **2005f:81002**

Prikas, Athanasios Einstein-Yang-Mills equations in the presence of q-stars. (English summary) **2005h:83159**

— Einstein-Yang-Mills equations in the presence of q-stars in scalar-tensor gravitational theories. (English summary) **2005k:83117**

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Ramgoolam, Sanjaye Towards gauge theory for a class of commutative and non-associative fuzzy spaces. (English summary) **2005c:81233**

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Rashkov, Radoslav C. (*with* Viswanathan, Kadayam Sankaran; Yang, Yi[1]) Semiclassical analysis of string-gauge duality on noncommutative space. (English summary) **2005h:81407**

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Rebhan, A. (*with* van Nieuwenhuizen, Peter; Wimmer, R.) A new anomalous contribution to the central charge of the $N=2$ monopole. (English summary) **2005c:81214**

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Ritter, William Gordon Vacuum geometry of the $N=2$ Wess-Zumino model. (English summary) **2005k:81326**

Robinson, David Clyde Generalized forms, connections, and gauge theories. (English summary) **2005b:53123**

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Rodnianski, Igor (*with* Tao, Terence C.) Global regularity for the Maxwell-Klein-Gordon equation with small critical Sobolev norm in high dimensions. (English summary) **2005i:35256**

Rodrigues, D. C. *see* **Neves, C. et al., 2005f:81268**

Roiban, Radu (*with* Spradlin, Marcus; Volovich, Anastasia) A googly amplitude from the B-model in twistor space. (English summary) **2005g:81259**

— (*with* Volovich, Anastasia) Yang-Mills correlation functions from integrable spin chains. (English summary) **2005i:81169**

— (*with* Spradlin, Marcus; Volovich, Anastasia) Tree-level S matrix of Yang-Mills theory. (English summary) **2005h:81239**

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Rupp, Christian W. *see* **Klinkhamer, Frans R., 2005h:81342**

Ryzhov, Anton V. (*with* Tseytlin, A. A.) Towards the exact dilatation operator of $\mathcal{N}=4$ super-Yang-Mills theory. (English summary) **2005h:81382**

Safarzadeh, Batool On the Seiberg-Witten map of $\mathcal{N}=2$ SYM theory in non(anti)commutative harmonic superspace. (English summary) **2005k:81327**

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Sämann, Christian The topological B-model on fattened complex manifolds and subsectors of $\mathcal{N}=4$ self-dual Yang-Mills theory. (English summary) **2005m:81292**

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Savvidy, G. K. Gauge fields–strings duality and tensionless superstrings. (English summary) **2005b:81160**

— Tensionless strings, correspondence with $SO(D,D)$ sigma-model. (English summary) **2005k:81262**

Schaposnik, Fidel A. *see* **Correa, Diego H. et al., 2005f:81257** *and* **Aldrovandi, L. G. et al., 2005j:81173**

Schnitzer, Howard J. Gauged vector models and higher-spin representations in AdS_5. (English summary) **2005d:81260**

— *see also* **Gómez-Reino, Marta et al., 2005m:81303**

Scholz, Erhard Hermann Weyl's analysis of the "problem of space" and the origin of gauge structures. (English summary)

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Schunck, A. F. *see* **Manton, N. S., 2005e:81104**
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— Symplectic reduction for Yang-Mills on a cylinder. (English summary) **2005h:53146**
Sergeev, Armen G. On the adiabatic limit in some nonlinear equations of gauge field theory. (Russian. Russian summary) **2005m:58036**
Serna, Mario (*with* Cahill, Kevin) Riemannian gauge theory and charge quantization. (English summary) **2005d:53126**
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— *see also* **Basu, Anirban et al., 2005h:81349**
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Sibiryakov, S. M. *see* **Demidov, S. V. et al., 2005a:81242**
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Śniatycki, Jędrzej Geometry of solution spaces of spaces of Yang-Mills equations. (English and French summaries) **2005f:58012**
Sobreiro, R. F. (*with* Sorella, S. P.; Dudal, D.; Verschelde, H.) Gribov horizon in the presence of dynamical mass generation in Euclidean Yang-Mills theories in the Landau gauge. (English summary) **2005d:81254**
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Strobl, Thomas Algebroid Yang-Mills theories. (English summary) **2005j:53031**
Sugino, Fumihiko Super Yang-Mills theories on the two-dimensional lattice with exact supersymmetry. (English summary) **2005b:81123**
— Various super Yang-Mills theories with exact supersymmetry on the lattice. (English summary) **2005k:81201**
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Tao, Terence C. *see* **Rodnianski, Igor, 2005i:35256**
Tarantello, Gabriella Selfdual Maxwell-Chern-Simons vortices. **2005g:58025**
Tartaglino Mazzucchelli, Gabriele Quantization of $N = 1$ chiral/nonminimal (CNM) scalar multiplets and supersymmetric Yang-Mills theories. (English summary) **2005d:81346**
Tchrakian, Tigran D. H. *see* **Brihaye, Yves et al., 2005f:83084** *and* **Paturyan, Vanush et al., 2005h:83028**
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Vafa, Cumrun *see* **Dijkgraaf, Robbert et al., 2005f:81240**; **Aganagic, Mina et al., 2005g:81284** *and* **2005h:81346**
Valtancoli, P. Projectors, matrix models and noncommutative monopoles. (English summary) **2005k:81348**
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Vasil'ev, M. A. Higher spin gauge theories in various dimensions. (English summary) **2005k:81195**
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Ventura, O. S. (*with* Amaral, R. L. P. G.; Costa, J. V.; Buffon, L. O.; Lemes, V. E. R.) A new picture on the $(3 + 1)$D topological mass mechanism. (English summary) **2005k:81292**
Verbin, Y. (*with* Larsen, A. L.) Non-singular global cosmic strings. (English summary) **2005m:83166**
Verschelde, H. *see* **Sobreiro, R. F. et al., 2005d:81254**
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Wang, Peng[2] *see* **Meng, Xin-He, 2005c:81210**
Wang, Xiao-Jun (*with* Wu, Yong Shi[1]) Integrable spin chain and operator mixing in $\mathcal{N} = 1, 2$ supersymmetric theories. (English summary) **2005a:81235**
Ward, R. S. Planar Skyrmions at high and low density. (English summary) **2005a:35233**
Warner, Nicholas P. *see* **Gowdigere, Chethan N. et al., 2005b:81192**; **Kennaway, Kristian D., 2005g:81306** *and* **Aganagic, Mina et al., 2005h:81346**
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Worthy, L. A. *see* **Jack, Ian et al., 2005j:81114**
Wotzasek, C. *see* **Neves, C. et al., 2005f:81268**
Wu, Jun-Bao (*with* Zhu, Chuan-Jie) MHV vertices and scattering amplitudes in gauge theory. (English summary) **2005k:81188**
— (*with* Zhu, Chuan-Jie) MHV vertices and fermionic scattering amplitudes in gauge theory with quarks and gluinos. (English summary) **2005m:81214**
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Yoshida, Kensuke *see* **Kawai, Hikaru et al., 2005i:81163**
Young, Charles A. S. *see* **Evans, Jonathan M. et al., 2005m:81294**
Yu, Tian[1] (*with* Zhu, Chuan-Jie) Instantons on general noncommutative $\mathbf{R}^4$. (English summary) **2005d:81207**
— (*with* Zhu, Chuan-Jie; Song, Xing-Chang) Topological charge of noncommutative ADHM instanton. (English summary) **2005d:81208**
— Conformal symmetry on the instanton moduli space. (English summary) **2005i:53023**
Yung, A. *see* **Markov, Vladimir N. et al., 2005i:81165**
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Zet, G. *see* **Oprişan, C. D., 2005m:83109**
Zhang, Peng-Ming (*with* Duan, Yi Shi; Liu, Xin[5]) Knots in the non-abelian Chern-Simons theory. (English summary) **2005h:81339**
Zhu, Chuan-Jie The googly amplitudes in gauge theory. (English summary) **2005g:81209**
— *see also* **Yu, Tian[1] et al., 2005d:81207**; **2005d:81208**; **Wu, Jun-Bao, 2005k:81188** *and* **2005m:81214**
Zoupanos, George *see* **Manousselis, Pantelis, 2005h:81376** *and* **Ma, Ernest et al., 2005k:81321**
Zupnik, B. M. $N = 4$ multiplets in $N = 3$ harmonic superspace. (Russian. Russian summary) **2005k:81332**
— *see also* **Bukhbinder, I. L. et al., 2005a:81215**

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del Aguila, Francisco (*with* Pittau, Roberto) Recursive numerical calculus of one-loop tensor integrals. (English summary) **2005e:81145**
Alexandre, Jean Non-renormalization for planar Wess-Zumino model. (English summary) **2005b:81105**
Ananthanarayan, Balasubramanian (*with* Moussallam, Bachir) Four-point correlator constraints on electromagnetic chiral parameters and resonance effective Lagrangians. (English summary)
Battistel, O. A. *see* **Dallabona, G.**
Bellucci, Stefano (*with* Bukhbinder, I. L.; Krykhtin, V. A.) Renormalization of the energy-momentum tensor in noncommutative complex scalar field theory. (English summary) **2005b:81106**

Brustein, Ram (*with* Yarom, Amos) Dimensional reduction from entanglement in Minkowski space. (English summary) **2005k:81176**
Bukhbinder, I. L. *see* **Bellucci, Stefano et al., 2005b:81106**
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Cantcheff, Marcelo Botta *see* **Scarpelli, A. P. Baêta et al., 2005a:81148**
Dallabona, G. (*with* Battistel, O. A.) Ambiguities and symmetry relations associated with fermionic tensor densities. (English summary)
Dudal, D. (*with* Gracey, J. A.; Lemes, V. E. R.; Sobreiro, R. F.; Sorella, S. P.; Verschelde, H.) Renormalization properties of the mass operator $A^a_\mu A^a_\mu$ in three-dimensional Yang-Mills theories in the Landau gauge. (English summary) **2005k:81177**
— *see also* **Sobreiro, R. F. et al., 2005d:81254**
Duff, M. J. (*with* Liu, James T.; Sati, Hisham) Quantum discontinuity for massive spin-3/2 with a Λ term. (English summary) **2005h:81221**
Dunne, Gerald V. (*with* Hur, Jin; Lee, Choonkyu; Min, Hyunsoo) Instanton determinant with arbitrary quark mass: WKB phase-shift method and derivative expansion. (English summary) **2005d:81249**
Dütsch, Michael (*with* Fredenhagen, Klaus) The master Ward identity and generalized Schwinger-Dyson equation in classical field theory. (English summary) **2005b:81107**
Ferrari, A. F. (*with* Girotti, H. O.; Gomes, Marcelo O. C.; Petrov, A. Yu.; Ribeiro, Anderson André Genro; da Silva, A. J.) On the consistency of the three-dimensional noncommutative supersymmetric Yang-Mills theory. (English summary) **2005g:81199**
Feuchter, C. (*with* Reinhardt, Hugo) Variational solution of the Yang-Mills Schrödinger equation in Coulomb gauge. (English summary) **2005i:81099**
Figueroa, Héctor (*with* Gracia-Bondía, José M.) The uses of Connes and Kreimer's algebraic formulation of renormalization theory. (English summary) **2005g:81200**
Foussats, A. (*with* Repetto, C. E.; Zandron, O. P.; Zandron, O. S.) New path-integral quantization approach for a Lagrangian model in terms of Hubbard operators. (English summary) **2005e:81146**
Fredenhagen, Klaus *see* **Dütsch, Michael, 2005b:81107**
Girotti, H. O. *see* **Ferrari, A. F. et al., 2005g:81199**
Gomes, Marcelo O. C. *see* **Ferrari, A. F. et al., 2005g:81199**
Gracey, J. A. *see* **Dudal, D. et al., 2005k:81177**
Gracia-Bondía, José M. *see* **Figueroa, Héctor, 2005g:81200**
Grassi, Pietro Antonio (*with* Hurth, Tobias; Quadri, Andrea) Landau background gauge fixing and the IR properties of Yang-Mills Green functions. (English summary) **2005h:81222**
Grigore, Dan Radu Ward identities and renormalization of general gauge theories. (English summary) **2005e:81147**
Griguolo, Luca (*with* Seminara, Domenico; Szabo, Richard J.) Two-dimensional Yang-Mills theory and moduli spaces of holomorphic differentials. (English summary) **2005f:81149**
Groot Nibbelink, Stefan (*with* Hillenbach, Mark) Renormalization of supersymmetric gauge theories on orbifolds: brane gauge couplings and higher derivative operators. (English summary) **2005m:81206**
Grosse, Harald (*with* Wulkenhaar, Raimar) Regularization and renormalization of quantum field theories on noncommutative spaces. (English summary) **2005m:81207**
— (*with* Wulkenhaar, Raimar) Renormalisation of scalar quantum field theory on noncommutative $\mathbb{R}^4$. (English summary) **2005m:81208**
Hamprecht, B. (*with* Kleinert, Hagen) Variational perturbation theory for summing divergent tunnelling amplitudes. (English summary) **2005d:81250**
Helayël-Neto, J. A. *see* **Scarpelli, A. P. Baêta et al., 2005a:81148**
Hillenbach, Mark *see* **Groot Nibbelink, Stefan, 2005m:81206**
Hollands, Stefan (*with* Wald, Robert M.) Quantum field theory is not merely quantum mechanics applied to low energy effective degrees of freedom. (English summary) **2005g:81201**
't Hooft, Gerard Renormalization without infinities. (English summary) **2005m:81209**
Hur, Jin *see* **Dunne, Gerald V. et al., 2005d:81249**
Hurth, Tobias *see* **Grassi, Pietro Antonio et al., 2005h:81222**
Imai, Takahito *see* **Shinohara, Toru et al., 2005d:81253**
Jack, Ian (*with* Jones, D. R. T.; Worthy, L. A.) One-loop renormalisation of $N = 1/2$ supersymmetric gauge theory. (English summary) **2005j:81114**
Jones, D. R. T. *see* **Jack, Ian et al., 2005j:81114**
Kastler, Daniel On the exterior structure of graphs. (English summary) **2005b:81108**
Kawai, Takahiro (*with* Stapp, Henry P.) On infra-red singularities associated with QC photons. **2005d:81251**
Kaya, Ali Non-Gaussian path integration in self-interacting scalar field theories. (English summary)
Kiyan, Tsuyoshi (*with* Maekawa, Takayoshi; Masuda, Masamichi; Taira, Hideo) On disagreement between unitary gauge and $\xi \to 0$ gauge in R_ξ in general cases. (English summary) **2005m:81210**
Klauder, John R. Overcoming nonrenormalizability. II. (English summary) **2005f:81150**
Kleinert, Hagen *see* **Hamprecht, B., 2005d:81250**
Kondo, Kei-Ichi *see* **Shinohara, Toru et al., 2005d:81253**
Krykhtin, V. A. *see* **Bellucci, Stefano et al., 2005b:81106**
Kubo, Jisuke (*with* Nunami, Masanori) Maximal locality and predictive power in higher-dimensional, compactified field theories. (English summary) **2005b:81109**
Lee, Choonkyu *see* **Dunne, Gerald V. et al., 2005d:81249**
Lemes, V. E. R. *see* **Dudal, D. et al., 2005k:81177**
Lenz, F. (*with* Ohta, Koichi; Thies, M.; Yazaki, K.) Chiral symmetry in light-cone field theory. (English summary) **2005g:81202**
Liu, James T. *see* **Duff, M. J. et al., 2005h:81221**
Maekawa, Takayoshi *see* **Kiyan, Tsuyoshi et al., 2005m:81210**
Maghini, Stefano (*with* Santambrogio, Alberto; Zanon, Daniela) Two-point functions for $\mathcal{N} = 4$ Konishi-like operators. (English summary) **2005i:81100**
Masuda, Masamichi *see* **Kiyan, Tsuyoshi et al., 2005m:81210**
Min, Hyunsoo *see* **Dunne, Gerald V. et al., 2005d:81249**
Morita, Katsusada A new gauge-invariant regularization scheme based on Lorentz-invariant noncommutative quantum field theory. (English summary) **2005d:81252**
Moussallam, Bachir *see* **Ananthanarayan, Balasubramanian**
Nunami, Masanori *see* **Kubo, Jisuke, 2005b:81109**
Ohta, Koichi *see* **Lenz, F. et al., 2005g:81202**
Pavlov, Yu. V. Renormalization and dimensional regularization for a scalar field with coupling to curvature of Gauss-Bonnet type. (Russian. Russian summary) **2005f:81151**
Petrov, A. Yu. *see* **Ferrari, A. F. et al., 2005g:81199**
Pittau, Roberto *see* **del Aguila, Francisco, 2005e:81145**
Prokhorenko, D. V. *see* **Volovich, Igor V., 2005g:81203**
Quadri, Andrea *see* **Grassi, Pietro Antonio et al., 2005h:81222**
Quevedo, Hernando *see* **Rosenbaum, M. et al., 2005h:81223**
Reinhardt, Hugo *see* **Feuchter, C., 2005i:81099**
Repetto, C. E. *see* **Foussats, A. et al., 2005e:81146**
Ribeiro, Anderson André Genro *see* **Ferrari, A. F. et al., 2005g:81199**
Rosenbaum, M. (*with* Vergara, J. David; Quevedo, Hernando) Hopf algebra primitives in perturbation quantum field theory. (English summary) **2005h:81223**
— (*with* Vergara, J. David) The Hopf algebra of renormalization, normal coordinates and Kontsevich deformation quantization. (English summary) **2005k:81178**
Sales, J. H. O. *see* **Suzuki, A. T., 2005i:81101**
Santambrogio, Alberto *see* **Maghini, Stefano et al., 2005i:81100**
Sati, Hisham *see* **Duff, M. J. et al., 2005h:81221**
Scarpelli, A. P. Baêta (*with* Cantcheff, Marcelo Botta; Helayël-Neto, J. A.) A comment on the relation between the propagators of dual theories. (English summary) **2005a:81148**
Seminara, Domenico *see* **Griguolo, Luca et al., 2005f:81149**
Shinohara, Toru (*with* Imai, Takahito; Kondo, Kei-Ichi) The most general and renormalizable maximal abelian gauge. (English summary) **2005d:81253**
da Silva, A. J. *see* **Ferrari, A. F. et al., 2005g:81199**
Sobreiro, R. F. (*with* Sorella, S. P.; Dudal, D.; Verschelde, H.) Gribov horizon in the presence of dynamical mass generation in Euclidean Yang-Mills theories in the Landau gauge. (English summary) **2005d:81254**
— *see also* **Dudal, D. et al., 2005k:81177**
Sorella, S. P. *see* **Sobreiro, R. F. et al., 2005d:81254** *and* **Dudal, D. et al., 2005k:81177**
Stapp, Henry P. *see* **Kawai, Takahiro, 2005d:81251**
Stingl, Manfred Construction of coupling-resurgent amplitudes in quantum field theory. (English and French summaries) **2005k:81179**
Suzuki, A. T. (*with* Sales, J. H. O.) Quantum gauge boson propagators in the light front. (English summary) **2005i:81101**
Svaiter, N. F. *see* **Caicedo, M. I., 2005a:81147**
Szabo, Richard J. *see* **Griguolo, Luca et al., 2005f:81149**
Taira, Hideo *see* **Kiyan, Tsuyoshi et al., 2005m:81210**
Thies, M. *see* **Lenz, F. et al., 2005g:81202**
Thorn, Charles B. Renormalization of quantum fields on the lightcone worldsheet. I. Scalar fields. (English summary) **2005f:81152**
Vergara, J. David *see* **Rosenbaum, M. et al., 2005h:81223** *and* **2005k:81178**
Verschelde, H. *see* **Sobreiro, R. F. et al., 2005d:81254** *and* **Dudal, D. et al., 2005k:81177**
Volovich, Igor V. (*with* Prokhorenko, D. V.) Renormalizations in quantum electrodynamics, and Hopf algebras. (Russian. Russian summary) **2005g:81203**
Wald, Robert M. *see* **Hollands, Stefan, 2005g:81201**
Worthy, L. A. *see* **Jack, Ian et al., 2005j:81114**
Wu, Yue-Liang Symmetry-preserving loop regularization and renormalization of QFTs. (English summary)
Wulkenhaar, Raimar *see* **Grosse, Harald, 2005m:81207** *and* **2005m:81208**
Yarom, Amos *see* **Brustein, Ram, 2005k:81176**
Yazaki, K. *see* **Lenz, F. et al., 2005g:81202**
Zandron, O. P. *see* **Foussats, A. et al., 2005e:81146**
Zandron, O. S. *see* **Foussats, A. et al., 2005e:81146**
Zanon, Daniela *see* **Maghini, Stefano et al., 2005i:81100**

Items with secondary classifications in 81T15

Alhaidari, A. D. Solution of the Dirac equation with position-dependent mass in the Coulomb field. (English summary) **2005a:81052**
Alishahiha, Mohsen (*with* Ghodsi, Ahmad; Sadooghi, Néda) One-loop perturbative corrections to non(anti)commutativity parameter of $\mathcal{N} = 1/2$ supersymmetric U(N) gauge theory. (English summary) **2005b:81112**
Alkofer, R. (*with* Fischer, Christian S.; Llanes-Estrada, F. J.) Vertex functions and infrared fixed point in Landau gauge SU(N) Yang-Mills theory. (English summary) **2005i:81104**
Ambjørn, Jan (*with* Dubin, A. Yu.; Makeenko, Yu. M.) Wilson loops in 2D noncommutative Euclidean gauge theory. I. Perturbative expansion. (English summary) **2005d:81350**
Anacleto, M. A. (*with* Gomes, Marcelo O. C.; da Silva, A. J.; Spehler, D.) Noncommutative correction to Aharonov-Bohm scattering: a field theory approach. (English summary) **2005i:81172**
Asano, E. A. (*with* Gomes, Marcelo O. C.; Rodrigues, A. G.; da Silva, A. J.) $(2+1)$-dimensional noncommutative $\mathbf{CP}^{N-1}$ model. (English summary) **2005d:81351**
Bardakci, Korkut Further results about field theory on the world sheet and string formation. (English summary) **2005k:81182**
Bashir, A. (*with* Delbourgo, Robert) The nonperturbative propagator and vertex in massless quenched QED_d. (English summary) **2005c:81248**
Bauer, Florian (*with* Lindner, Manfred; Seidl, Gerhart) Casimir energy in deconstruction and the cosmological constant. (English summary) **2005c:81134**
Belitsky, A. V. (*with* Derkachov, S. É.; Korchemsky, G. P.; Manashov, A. N.) Superconformal operators in $\mathcal{N} = 4$ super-Yang-Mills theory. (English summary) **2005h:81351**
Berges, Jürgen n-particle irreducible effective action techniques for gauge theories. (English summary) **2005i:81105**
Blümlein, Johannes Algebraic relations between harmonic sums and associated quantities. (English summary) **2005g:11260**
Bolina, Oscar *see* **Wreszinski, Walter F. et al., 2005h:81198**
Boutet de Monvel, Louis Algèbre de Hopf des diagrammes de Feynman, renormalisation et factorisation de Wiener-Hopf (d'après A. Connes et D. Kreimer). (French summary) [Hopf algebra of Feynman diagrams, renormalization and Wiener-Hopf factorization (following A. Connes and D. Kreimer)] **2005h:81235**
de Brito, L. C. T. (*with* Gomes, Marcelo O. C.; Perez, Silvana; da Silva, A. J.) Radiative corrections to the Chern-Simons term at finite temperature in the noncommutative

Chern-Simons-Higgs model. (English summary) **2005g:81328**

Britto-Pacumio, Ruth A. (*with* Feng, Bo[1]) $\mathcal{N} = \frac{1}{2}$ Wess-Zumino model is renormalizable. (English summary) **2005a:81239**

Brouder, Christian Trees, renormalization and differential equations. (English summary) **2005i:16074**

Burić, Maja (*with* Radovanović, Voja) On divergent 3-vertices in noncommutative SU(2) gauge theory. (English summary) **2005h:81393**

Calzetta, E. A. Two-particle irreducible effective action in gauge theories. (English summary) **2005m:81200**

Delbourgo, Robert *see* **Bashir, A., 2005c:81248**

Derkachov, S. É. *see* **Belitsky, A. V. et al., 2005h:81351**

Dubin, A. Yu. *see* **Ambjørn, Jan et al., 2005d:81350**

Elias, V. (*with* McKeon, D. G. C.; Sherry, T. N.) Summation of higher order effects using the renormalization group equation. (English summary) **2005i:81102**

Feng, Bo[1] *see* **Britto-Pacumio, Ruth A., 2005a:81239**

Ferrari, A. F. (*with* Girotti, H. O.; Gomes, Marcelo O. C.; Petrov, A. Yu.; Ribeiro, Anderson André Genro; Rivelles, Victor O.; da Silva, A. J.) Superfield covariant analysis of the divergence structure of noncommutative supersymmetric QED_4. (English summary) **2005f:81159**

— (*with* Girotti, H. O.; Gomes, Marcelo O. C.; Petrov, A. Yu.; Ribeiro, Anderson André Genro; Rivelles, Victor O.; da Silva, A. J.) Towards a consistent noncommutative supersymmetric Yang-Mills theory: Superfield covariant analysis. (English summary) **2005h:81365**

Fischbacher, Thomas (*with* Klose, Thomas; Plefka, Jan) Planar plane-wave matrix theory at the four loop order: integrability without BMN scaling. (English summary) **2005k:81227**

Fischer, Christian S. *see* **Alkofer, R. et al., 2005i:81104**

Fujikawa, Kazuo (*with* Suzuki, Hiroshi) Anomalies, local counter terms and bosonization. (English summary) **2005f:81230**

Ghodsi, Ahmad *see* **Alishahiha, Mohsen et al., 2005b:81112**

Giedt, Joel (*with* Poppitz, Erich) Lattice supersymmetry, superfields and renormalization. (English summary) **2005g:81217**

Girotti, H. O. *see* **Ferrari, A. F. et al., 2005f:81159** *and* **2005h:81365**

Glaum, Konstantin *see* **Pelster, Axel, 2005e:81152**

Gomes, Marcelo O. C. *see* **Asano, E. A. et al., 2005d:81351**; **Ferrari, A. F. et al., 2005f:81159**; **2005h:81365**; **de Brito, L. C. T. et al., 2005g:81328** *and* **Anacleto, M. A. et al., 2005i:81172**

Groot Nibbelink, Stefan Shape of gauge field tadpoles in heterotic string theory. (English summary) **2005h:81283**

Hart, Alistair (*with* von Hippel, G. M.; Horgan, R. R.; Storoni, L. C.) Automatically generating Feynman rules for improved lattice field theories. (English summary) **2005m:81223**

von Hippel, G. M. *see* **Hart, Alistair et al., 2005m:81223**

Hirokawa, Masao (*with* Hiroshima, Fumio; Spohn, Herbert) Ground state for point particles interacting through a massless scalar Bose field. (English summary) **2005h:81206**

Hiroshima, Fumio *see* **Hirokawa, Masao et al., 2005h:81206**

Hoffman, Michael E. The Hopf algebra structure of multiple harmonic sums. (English summary) **2005i:11125**

Hollands, Stefan (*with* Wald, Robert M.) On the renormalization group in curved spacetime. (English summary) **2005d:81258**

Horgan, R. R. *see* **Hart, Alistair et al., 2005m:81223**

Iqbal, Amer (*with* Kaplunovsky, Vadim S.) Quantum deconstruction of a 5D SYM and its moduli space. (English summary) **2005h:81370**

Jack, Ian (*with* Jones, D. R. T.; Kord, A. F.) R-parity violation and general soft supersymmetry breaking. (English summary) **2005a:81224**

Jones, D. R. T. *see* **Jack, Ian et al., 2005a:81224**

Kaplunovsky, Vadim S. *see* **Iqbal, Amer, 2005h:81370**

Khoruzhiĭ, S. S. On a rigorous formulation of a 2D-conformal model in the Fock-Krein space; construction of the global Op J^*-algebra of fields and currents. (Russian. Russian summary) **2005k:81281**

Kitazawa, Yoshihisa (*with* Takayama, Yastoshi; Tomino, Dan) Correlators of matrix models on homogeneous spaces. (English summary) **2005f:81264**

Klose, Thomas *see* **Fischbacher, Thomas et al., 2005k:81227**

Korchemsky, G. P. *see* **Belitsky, A. V. et al., 2005h:81351**

Kord, A. F. *see* **Jack, Ian et al., 2005a:81224**

Kreimer, Dirk *see* **Mencattini, Igor, 2005b:17046**

Langmann, Edwin (*with* Szabo, Richard J.; Zarembo, Konstantin) Exact solution of noncommutative field theory in background magnetic fields. (English summary) **2005a:81248**

Lindner, Manfred *see* **Bauer, Florian et al., 2005c:81134**

Llanes-Estrada, F. J. *see* **Alkofer, R. et al., 2005i:81104**

López, Esperanza UV/IR mixing, noncommutative instabilities and closed strings. (English summary) **2005d:81357**

Makeenko, Yu. M. *see* **Ambjørn, Jan et al., 2005d:81350**

Manashov, A. N. *see* **Belitsky, A. V. et al., 2005h:81351**

Manzoni, Luiz A. *see* **Wreszinski, Walter F. et al., 2005h:81198**

McKeon, D. G. C. *see* **Elias, V. et al., 2005i:81102**

Mencattini, Igor (*with* Kreimer, Dirk) Insertion and elimination Lie algebra: the ladder case. (English summary) **2005b:17046**

Milton, Kimball A. Anomalies in $\mathcal{PT}$-symmetric quantum field theory. (English summary) **2005c:81193**

Morris, Tim R. Renormalizable extra-dimensional models. (English summary) **2005m:81226**

Moss, Ian G. (*with* Norman, James P.) One loop effective potential in heterotic M-theory. (English summary) **2005j:81158**

Mussardo, G. (*with* Riva, V.; Sotkov, G. M.) Semiclassical scaling functions of sine-Gordon model. (English summary) **2005f:81143**

van Nieuwenhuizen, Peter *see* **Rebhan, A. et al., 2005c:81214**

Norman, James P. *see* **Moss, Ian G., 2005j:81158**

Okuyama, Kazumi (*with* Tseng, Li-Sheng) Three-point functions in $\mathcal{N} = 4$ SYM theory at one-loop. (English summary) **2005h:81380**

Pelster, Axel (*with* Glaum, Konstantin) Recursive graphical solution of closed Schwinger-Dyson equations in φ^4-theory. I. Generation of connected and one-particle irreducible Feynman diagrams. (English summary) **2005e:81152**

Perez, Silvana *see* **de Brito, L. C. T. et al., 2005g:81328**

Petrov, A. Yu. *see* **Ferrari, A. F. et al., 2005f:81159** *and* **2005h:81365**

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Radovanović, Voja *see* **Burić, Maja, 2005h:81393**

Rebhan, A. (*with* van Nieuwenhuizen, Peter; Wimmer, R.) A new anomalous contribution to the central charge of the $N = 2$ monopole. (English summary) **2005c:81214**

Reinhardt, Hugo *see* **Schröder, Oliver, 2005g:81196**

Ribeiro, Anderson André Genro *see* **Ferrari, A. F. et al., 2005f:81159** *and* **2005h:81365**

Rim, Chaiho (*with* Seo, Yunseok; Yee, Jae Hyung) Perturbation theory of the space-time noncommutative real scalar field theories. (English summary) **2005f:81269**

Riva, V. *see* **Mussardo, G. et al., 2005f:81143**

Rivelles, Victor O. Supersymmetry and gravity in noncommutative field theories. (English summary) **2005g:81333**

— *see also* **Ferrari, A. F. et al., 2005f:81159** *and* **2005h:81365**

Rodrigues, A. G. *see* **Asano, E. A. et al., 2005d:81351**

Rouhani, S. (*with* Takook, M. V.) Tree-level scattering amplitude in de Sitter space. (English summary) **2005f:81162**

Sadooghi, Néda *see* **Alishahiha, Mohsen et al., 2005b:81112**

Schröder, Oliver (*with* Reinhardt, Hugo) Kamlah expansion and gauge theories. (English summary) **2005g:81196**

Seidl, Gerhart *see* **Bauer, Florian et al., 2005c:81134**

Seo, Yunseok *see* **Rim, Chaiho et al., 2005f:81269**

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Smilga, Andrei (*with* Vaĭnshteĭn, A. I.) Background field calculations and nonrenormalization theorems in 4d supersymmetric gauge theories and their low-dimensional descendants. (English summary) **2005m:81315**

Sotkov, G. M. *see* **Mussardo, G. et al., 2005f:81143**

Spehler, D. *see* **Anacleto, M. A. et al., 2005i:81172**

Spohn, Herbert *see* **Hirokawa, Masao et al., 2005h:81206**

Stoenescu, G. BRST-antibracket cohomology of YM theory in d'Hoker approach. (English summary) **2005b:81203**

Storoni, L. C. *see* **Hart, Alistair et al., 2005m:81223**

Suzuki, Hiroshi *see* **Fujikawa, Kazuo, 2005f:81230**

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Wald, Robert M. *see* **Hollands, Stefan, 2005d:81258**

Walker, Michael Luke Supersymmetry and chiral symmetry. (English summary) **2005k:81331**

Wang, Xiao-Jun (*with* Wu, Yong Shi[1]) Integrable spin chain and operator mixing in $\mathcal{N} = 1, 2$ supersymmetric theories. (English summary) **2005a:81235**

Wimmer, R. *see* **Rebhan, A. et al., 2005c:81214**

Wreszinski, Walter F. (*with* Manzoni, Luiz A.; Bolina, Oscar) Existence of the Bogoliubov $S(g)$ operator for the $(:\varphi^4:)_2$ quantum field theory. (English summary) **2005h:81198**

Wu, Yong Shi[1] *see* **Wang, Xiao-Jun, 2005a:81235**

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Bordag, M. (*with* Vasilevich, D. V.) Nonsmooth backgrounds in quantum field theory. (English summary) **2005h:81224**

Cognola, Guido (*with* Zerbini, Sergio) Effective action for scalar fields and generalized zeta-function regularization. (English summary) **2005d:81255**

Elizalde, Emilio On the issue of imposing boundary conditions on quantum fields. (English summary) **2005f:81153**

Fauser, Bertfried Quantum Clifford Hopf gebra for quantum field theory. (English summary) **2005d:81256**

Franke, V. A. *see* **Paston, S. A. et al., 2005f:81154**

Iucci, Aníbal (*with* Naón, Carlos) A non-covariant fermionic determinant and its connection to Luttinger systems. (English summary) **2005h:81225**

McKenzie-Smith, J. J. (*with* Naylor, Wade) Partition function for a singular background. (English summary) **2005h:81226**

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Naylor, Wade *see* **McKenzie-Smith, J. J., 2005h:81226**

Ortenzi, Giovanni (*with* Spreafico, Mauro) Zeta function regularization for a scalar field in a compact domain. (English summary) **2005k:81180**

Paston, S. A. (*with* Prokhvatilov, E. V.; Franke, V. A.) Gauge-invariant regularization of quantum field theory on a light front. (Russian. Russian summary) **2005f:81154**

Prokhvatilov, E. V. *see* **Paston, S. A. et al., 2005f:81154**

Spreafico, Mauro *see* **Ortenzi, Giovanni, 2005k:81180**

Vasilevich, D. V. *see* **Bordag, M., 2005h:81224**

Zav'yalov, O. I. Once more on an operator product expansion on the light cone. (Russian. Russian summary) **2005c:81139**

Zerbini, Sergio *see* **Cognola, Guido, 2005d:81255**

Items with secondary classifications in 81T16

Asada, Akira Regularized calculus: an application of zeta regularization to infinite dimensional geometry and analysis. (English summary) **2005e:58052**

Bytsenko, Andrei A. (*with* Cognola, Guido; Elizalde, Emilio; Moretti, Valter; Zerbini, Sergio) ★ Analytic aspects of quantum fields. **2005a:81127**
Cognola, Guido *see* **Bytsenko, Andrei A. et al., 2005a:81127**
Dolan, Brian P. (*with* O'Connor, Denjoe) A fuzzy three sphere and fuzzy tori. (English summary) **2005d:81203**
Dowker, J. S. Spherical Casimir energies and Dedekind sums. (English summary) **2005h:81243**
Dudal, D. (*with* Gracey, J. A.; Lemes, V. E. R.; Sobreiro, R. F.; Sorella, S. P.; Verschelde, H.) Renormalization properties of the mass operator $A^a_\mu A^a_\mu$ in three-dimensional Yang-Mills theories in the Landau gauge. (English summary) **2005k:81177**
Elizalde, Emilio (*with* Tierz, Miguel) Multiplicative anomaly and zeta factorization. (English summary) **2005b:58052**
— *see also* **Bytsenko, Andrei A. et al., 2005a:81127**
Flachi, Antonino (*with* Knapman, Alan; Naylor, Wade; Sasaki, Misao) Zeta functions in brane world cosmology. (English summary) **2005m:83158**
Garattini, Remo Self sustained traversable wormholes? (English summary) **2005m:83051**
Gracey, J. A. *see* **Dudal, D. et al., 2005k:81177**
Grasso, Darren T. Higher order contributions to the effective action of $\mathcal{N}=2$ super Yang-Mills. (English summary) **2005g:81304**
Grosse, Harald (*with* Wulkenhaar, Raimar) Renormalisation of noncommutative quantum field theories. (English summary)
Knapman, Alan *see* **Flachi, Antonino et al., 2005m:83158**
Lemes, V. E. R. *see* **Dudal, D. et al., 2005k:81177**
Lieb, Elliott H. Quantum mechanics, the stability of matter and quantum electrodynamics. (English summary)
Loya, Paul (*with* Park, Jinsung) The ζ-determinant of generalized APS boundary problems over the cylinder. (English summary) **2005f:58060**
Moretti, Valter *see* **Bytsenko, Andrei A. et al., 2005a:81127**
Naylor, Wade *see* **Flachi, Antonino et al., 2005m:83158**
O'Connor, Denjoe *see* **Dolan, Brian P., 2005d:81203**
Park, Jinsung *see* **Loya, Paul, 2005f:58060**
Sasaki, Misao *see* **Flachi, Antonino et al., 2005m:83158**
Schakel, Adriaan M. J. Zeta function regularization of infrared divergences in Bose-Einstein condensation. (English and Ukrainian summaries) **2005c:82059**
Sobreiro, R. F. *see* **Dudal, D. et al., 2005k:81177**
Sorella, S. P. *see* **Dudal, D. et al., 2005k:81177**
Tierz, Miguel *see* **Elizalde, Emilio, 2005b:58052**
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Zerbini, Sergio *see* **Bytsenko, Andrei A. et al., 2005a:81127**

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Altschul, B. Nonpolynomial normal modes of the renormalization group in the presence of a constant vector potential background. (English summary) **2005h:81227**
Arnone, Stefano (*with* Yoshida, Kensuke) Application of exact renormalization group techniques to the non-perturbative study of supersymmetric field theory. (English summary) **2005c:81140**
— (*with* Guerrieri, Francesco; Yoshida, Kensuke) $\mathcal{N}=1^*$ model and glueball superpotential from renormalization-group-improved perturbation theory. (English summary) **2005d:81257**
Astorga, Francisco *see* **Stephens, Christopher R. et al., 2005h:81234**
Bakas, Ioannis Ricci flows and infinite dimensional algebras. (English summary) **2005e:81148**
Bervillier, C. The Wilson-Polchinski exact renormalization group equation. (English summary) **2005g:81204**
Bianchi, Massimo (*with* Prisco, Maurizio; Mück, Wolfgang) New results on holographic three-point functions. (English summary) **2005a:81149**
— (*with* Marchetti, Alessandro) Holographic three-point functions: one step beyond the tradition. (English summary) **2005g:81205**
Büchler, M. (*with* Colangelo, G.) Renormalization group equations for effective field theories. (English summary) **2005a:81150**
Butti, Agostino (*with* Toldin, Francesco Parisen) The critical equation of state of the three-dimensional O(N) universality class: $N>4$. (English summary) **2005h:81228**
Colangelo, G. *see* **Büchler, M., 2005a:81150**
Elias, V. (*with* McKeon, D. G. C.; Sherry, T. N.) Summation of higher order effects using the renormalization group equation. (English summary) **2005i:81102**
Fischer, Christian S. (*with* Gies, Holger) Renormalization flow of Yang-Mills propagators. (English summary) **2005h:81229**
Friedan, Daniel (*with* Konechny, Anatoly) Boundary entropy of one-dimensional quantum systems at low temperature. (English summary) **2005h:81230**
Gaite, José Stochastic formulation of the renormalization group: supersymmetric structure and topology of the space of couplings. (English summary) **2005e:81149**
Gies, Holger *see* **Fischer, Christian S., 2005h:81229**
Girelli, Florian (*with* Krajewski, Thomas; Martinetti, Pierre) An algebraic Birkhoff decomposition for the continuous renormalization group. (English summary) **2005i:81103**
Głazek, Stanisław D. (*with* Wilson, Kenneth G.) Erratum: "Limit cycles in quantum theories" [Phys. Rev. Lett. **89** (2002), no. 23, 230401, 4 pp.; MR1949629 (2003m:81150)]. **2005c:81141**
Gorbar, Eduard V. Renormalization group and decoupling in curved space. (English summary) **2005f:81155**
Guerrieri, Francesco *see* **Arnone, Stefano et al., 2005d:81257**
Hess, Peter O. *see* **Stephens, Christopher R. et al., 2005h:81234**
Hollands, Stefan (*with* Wald, Robert M.) On the renormalization group in curved spacetime. (English summary) **2005d:81258**
Intriligator, Ken (*with* Wecht, Brian) RG fixed points and flows in SQCD with adjoints. (English summary) **2005f:81156**
Katz, Andrey (*with* Shadmi, Yael) Gauge theories in AdS$_5$ and fine-lattice deconstruction. (English summary) **2005h:81231**
Konechny, Anatoly g-function in perturbation theory. (English summary) **2005b:81110**
— Ising model with a boundary magnetic field—an example of a boundary flow. (English summary) **2005j:81115**
— *see also* **Friedan, Daniel, 2005h:81230**
Kovalev, Vladimir F. (*with* Shirkov, Dmitrii V.) The renormalization group symmetry for solution of integral equations. (English summary)
Krajewski, Thomas *see* **Girelli, Florian et al., 2005i:81103**
LeClair, André (*with* Román, José María; Sierra, Germán) Log-periodic behavior of finite size effects in field theories with RG limit cycles. (English summary) **2005k:81181**
Litim, Daniel F. (*with* Vergara, Lautaro) Subleading critical exponents from the renormalisation group. (English summary) **2005f:81157**
Mansfield, Paul Solving the functional Schrödinger equation: Yang-Mills string tension and surface critical scaling. (English summary) **2005c:81142**
Marchetti, Alessandro *see* **Bianchi, Massimo, 2005g:81205**
Martinetti, Pierre *see* **Girelli, Florian et al., 2005i:81103**
McKeon, D. G. C. *see* **Elias, V. et al., 2005i:81102**
Missarov, M. D. Symmetry of the renormalization group in p-adic models. (Russian. Russian summary) **2005g:81206**
Mück, Wolfgang *see* **Bianchi, Massimo et al., 2005a:81149**
Nojiri, Shin'ichi (*with* Odintsov, Sergei D.) One-loop vacuum energy and RG flow induced by double-trace operators in AdS/CFT and dS/CFT correspondence. (English summary) **2005d:81259**
Nolland, David AdS/CFT boundary conditions, multi-trace perturbations, and the c-theorem. (English summary) **2005c:81143**
— AdS/CFT boundary conditions and multi-trace perturbations for fermions. (English summary) **2005c:81144**
Odintsov, Sergei D. *see* **Nojiri, Shin'ichi, 2005d:81259**
Oliynyk, T. (*with* Suneeta, V.; Woolgar, E.) Irreversibility of world-sheet renormalization group flow. (English summary) **2005h:81232**
Papadimitriou, Ioannis N. (*with* Skenderis, Kostas) Correlation functions in holographic RG flows. (English summary) **2005h:81233**
Prisco, Maurizio *see* **Bianchi, Massimo et al., 2005a:81149**
Ribeiro, Pedro Lauridsen Renormalization group flow in algebraic holography. (English summary) **2005g:81207**
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Sakakibara, Masato On the differential equations of the characters for the renormalization group. (English summary) **2005e:81150**
Schnitzer, Howard J. Gauged vector models and higher-spin representations in AdS$_5$. (English summary) **2005d:81260**
Shadmi, Yael *see* **Katz, Andrey, 2005h:81231**
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Shirkov, Dmitrii V. *see* **Kovalev, Vladimir F.**
Sierra, Germán *see* **LeClair, André et al., 2005k:81181**
Simonov, Yu. A. RG solutions for α_s at large N_c in $d=3+1$ QCD. (English summary) **2005m:81211**
Skenderis, Kostas *see* **Papadimitriou, Ioannis N., 2005h:81233**
Stephens, Christopher R. (*with* Weber, Axel; Hess, Peter O.; Astorga, Francisco) Dimensional reduction, hard thermal loops, and the renormalization group. (English summary) **2005h:81234**
Sugihara, Takanori Density matrix renormalization group in a two-dimensional $\lambda\varphi^4$ Hamiltonian lattice model. (English summary)
Suneeta, V. *see* **Oliynyk, T. et al., 2005h:81232**
Toldin, Francesco Parisen *see* **Butti, Agostino, 2005h:81228**
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(Asorey, Manuel) *see* **Renormalization group and anomalies in gravity and cosmology**
Barford, Thomas (*with* Birse, Michael C.) Effective theories of scattering with an attractive inverse-square potential and the three-body problem. (English summary) **2005j:81199**
Benfatto, Giuseppe (*with* Mastropietro, Vieri) Ward identities and vanishing of the beta function for $d=1$ interacting Fermi systems. (English summary) **2005d:82039**
de Berredo-Peixoto, Guilherme (*with* Gorbar, Eduard V.; Shapiro, Ilya L.) On the renormalization group for the interacting massive scalar field theory in curved space. (English summary) **2005d:81262**
Birse, Michael C. *see* **Barford, Thomas, 2005j:81199**
Bochicchio, Marco Solving loop equations by Hitchin systems via holography in large-N QCD$_4$. (English summary) **2005e:81261**
Bonanno, Alfio (*with* Esposito, Giampiero; Rubano, Claudio) Arnowitt-Deser-Misner gravity with variable G and Λ and fixed-point cosmologies from the renormalization group. (English summary) **2005f:83078**
Bordalo, Pedro (*with* Cornalba, Lorenzo; Schiappa, Ricardo) Towards quantum dielectric branes: curvature corrections in abelian beta function and non-abelian Born-Infeld action. (English summary) **2005k:81214**
Boutet de Monvel, Louis Algèbre de Hopf des diagrammes de Feynman, renormalisation et factorisation de Wiener-Hopf (d'après A. Connes et D. Kreimer). (French summary) [Hopf algebra of Feynman diagrams, renormalization and Wiener-Hopf factorization (following A. Connes and D. Kreimer)] **2005h:81235**
Brydges, David C. (*with* Mitter, P. K.; Scoppola, Benedetto) Critical $(\Phi^4)_{3,\varepsilon}$. (English summary) **2005b:81092**
Cornalba, Lorenzo *see* **Bordalo, Pedro et al., 2005k:81214**
Dudka, Maxym (*with* Holovatch, Yu.; Yavors'kii, Taras) Universality classes of the three-dimensional mn-vector model. (English summary) **2005f:82036**
Duff, M. J. (*with* Liu, James T.; Sati, Hisham) Quantum discontinuity for massive spin-3/2 with a Λ term. (English summary) **2005h:81221**

Esposito, Giampiero *see* **Bonanno, Alfio et al., 2005f:83078**
Faris, W. G. Non-selfadjoint Ornstein-Uhlenbeck semigroups. **2005d:47076**
(de Forcrand-Millard, Patricia A.) *see* **Vasil'ev, A. N., 2005j:81001**
Franco, Sebastián (*with* He, Yang Hui; Herzog, Christopher P.; Walcher, Johannes) Chaotic duality in string theory. (English summary) **2005h:81278**
Gorbar, Eduard V. *see* **de Berredo-Peixoto, Guilherme et al., 2005d:81262**
Graham, Kevin (*with* Watts, Gerard M. T.) Defect lines and boundary flows. (English summary) **2005f:81209**
Grinza, Paolo (*with* Ponsot, Bénédicte) Form factors in the massless coset models $su(2)_{k+1} \otimes su(2)_k / su(2)_{2k+1}$. I. (English summary) **2005m:81272**
Grosse, Harald (*with* Wulkenhaar, Raimar) The β-function in duality-covariant non-commutative φ^4-theory. (English summary) **2005b:81213**
Haddad, T. A. S. (*with* Andrade, Roberto F. S.; Salinas, S. R.) Critical properties of an aperiodic model for interacting polymers. (English summary) **2005b:82029**
He, Yang Hui *see* **Franco, Sebastián et al., 2005h:81278**
Herzog, Christopher P. *see* **Franco, Sebastián et al., 2005h:81278**
Holovatch, Yu. *see* **Dudka, Maxym et al., 2005f:82036**
't Hooft, Gerard Renormalization without infinities. (English summary) **2005m:81209**
Ichinose, Shoichi (*with* Murayama, Akihiro) Quantum dynamics of a bulk-boundary system. (English summary) **2005j:81108**
Janssen, Hans-Karl (*with* Täuber, Uwe C.) The field theory approach to percolation processes. (English summary) **2005k:82088**
Larsen, Finn (*with* McNees, Robert) Holography, diffeomorphisms, and scaling violations in the CMB. (English summary) **2005f:83131**
Lee, Sunggeun (*with* Sin, Sang-Jin) Closed string tachyon potential and tt^* equation. (English summary) **2005k:81246**
Liu, James T. *see* **Duff, M. J. et al., 2005h:81221**
Lukyanov, S. L. (*with* Vitchev, E. S.; Zamolodchikov, Aleksandr B.) Integrable model of boundary interaction: the paperclip. (English summary) **2005f:81212**
Mastropietro, Vieri *see* **Benfatto, Giuseppe, 2005d:82039**
McComb, W. D. ★ Renormalization methods. **2005f:82001**
McNees, Robert *see* **Larsen, Finn, 2005f:83131**
Missarov, M. D. (*with* Stepanov, R. G.) ε-expansions in Dyson's hierarchical model. (Russian. Russian summary) **2005g:82048**
Mitter, P. K. *see* **Brydges, David C. et al., 2005b:81092**
Mück, Wolfgang (*with* Prisco, Maurizio) Glueball scattering amplitudes from holography. (English summary) **2005b:81155**
Murayama, Akihiro *see* **Ichinose, Shoichi, 2005j:81108**
Nakazawa, Naohito Background field method in stochastic quantization of $\mathcal{N} = 1$ supersymmetric Yang-Mills theory. (English summary) **2005g:81312**
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Polyakov, A. M. Conformal fixed points of unidentified gauge theories. (English summary) **2005d:81301**
Polyakov, Dimitri GL(1) charged states in twistor string theory. (English summary) **2005i:81141**
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Prisco, Maurizio *see* **Mück, Wolfgang, 2005b:81155**
Rashkov, Radoslav C. (*with* Viswanathan, Kadayam Sankaran; Yang, Yi[1]) Semiclassical analysis of string-gauge duality on noncommutative space. (English summary) **2005h:81407**
Requardt, Manfred A geometric renormalization group in discrete quantum space-time. (English summary) **2005f:83028**
Rubano, Claudio *see* **Bonanno, Alfio et al., 2005f:83078**
Sako, Akifumi (*with* Suzuki, Toshiya) Recovery of full $N = 1$ supersymmetry in non(anti-)commutative superspace. (English summary) **2005i:81176**
Salinas, S. R. *see* **Haddad, T. A. S. et al., 2005b:82029**
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Schalm, Koenraad Eduard (*with* Shiu, Gary; van der Schaar, Jan Pieter) Decoupling in an expanding universe: boundary RG-flow affects initial conditions for inflation. (English summary) **2005b:83143**
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Items listed otherwise than by author

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Abdesselam, Abdelmalek Feynman diagrams in algebraic combinatorics. (English summary) **2005b:81111**
Akhmetzyanova, È. N. (*with* Dolgopolov, V. M.; Dolgopolov, M. V.) Feynman integrals. (Russian. English and Russian summaries) **2005j:81116**
Alishahiha, Mohsen (*with* Ghodsi, Ahmad; Sadooghi, Néda) One-loop perturbative corrections to non(anti)commutativity parameter of $\mathcal{N} = 1/2$ supersymmetric U(N) gauge theory. (English summary) **2005b:81112**
Alkofer, R. (*with* Fischer, Christian S.; Llanes-Estrada, F. J.) Vertex functions and infrared fixed point in Landau gauge SU(N) Yang-Mills theory. (English summary) **2005i:81104**
Bajnok, Zoltán (*with* Böhm, Gabriella; Takács, Gábor) On perturbative quantum field theory with boundary. (English summary) **2005e:81151**
Bardakci, Korkut Further results about field theory on the world sheet and string formation. (English summary) **2005k:81182**
Berges, Jürgen n-particle irreducible effective action techniques for gauge theories. (English summary) **2005i:81105**
Bern, Zvi (*with* Del Duca, Vittorio; Dixon, Lance J.; Kosower, David A.) All non-maximally-helicity-violating one-loop seven-gluon amplitudes in $\mathcal{N} = 4$ super-Yang-Mills theory. (English summary) **2005k:81183**
Böhm, Gabriella *see* **Bajnok, Zoltán et al., 2005e:81151**
Boutet de Monvel, Louis Algèbre de Hopf des diagrammes de Feynman, renormalisation et factorisation de Wiener-Hopf (d'après A. Connes et D. Kreimer). (French summary) [Hopf algebra of Feynman diagrams, renormalization and Wiener-Hopf factorization (following A. Connes and D. Kreimer)] **2005h:81235**
Britto-Pacumio, Ruth A. (*with* Cachazo, Freddy; Feng, Bo[1]) Coplanarity in twistor space of $\mathcal{N} = 4$ next-to-MHV one-loop amplitude coefficients. (English summary) **2005i:81106**
Cachazo, Freddy (*with* Svrček, Peter; Witten, Edward) MHV vertices and tree amplitudes in gauge theory. (English summary) **2005k:81185**
— (*with* Svrček, Peter; Witten, Edward) Gauge theory amplitudes in twistor space and holomorphic anomaly. (English summary) **2005k:81184**
— *see also* **Britto-Pacumio, Ruth A. et al., 2005i:81106**
Davydychev, A. I. (*with* Kalmykov, M. Yu.) Massive Feynman diagrams and inverse binomial sums. (English summary)
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Denk, S. (*with* Putz, V.; Schweda, M.; Wohlgenannt, Michael) Towards UV finite quantum field theories from non-local field operators. (English summary) **2005b:81113**
Denner, A. (*with* Pozzorini, S.) An algorithm for the high-energy expansion of multi-loop diagrams to next-to-leading logarithmic accuracy. (English summary) **2005m:81212**
Dixon, Lance J. (*with* Glover, E. W. Nigel; Khoze, Valentin V.) MHV rules for Higgs plus multi-gluon amplitudes. (English summary) **2005m:81213**
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Ferrari, A. F. (*with* Girotti, H. O.; Gomes, Marcelo O. C.; Petrov, A. Yu.; Ribeiro, Anderson André Genro; Rivelles, Victor O.; da Silva, A. J.) Superfield covariant analysis of the divergence structure of noncommutative supersymmetric QED_4. (English summary) **2005f:81159**
Fischer, Christian S. *see* **Alkofer, R. et al., 2005i:81104**
Georgiou, George (*with* Khoze, Valentin V.) Tree amplitudes in gauge theory as scalar MHV diagrams. (English summary) **2005g:81208**
— (*with* Glover, E. W. Nigel; Khoze, Valentin V.) Non-MHV tree amplitudes in gauge theory. (English summary) **2005h:81236**
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Kucheryavîĭ, V. Ĭ. Renormalization, Ward identities, symmetries, and quantum anomalies: logical aspect. (English summary)
Laporta, S. (*with* Remiddi, E.) Analytic treatment of the two loop equal mass sunrise graph. (English summary) **2005h:81238**
Liao, Yi[2] On evaluation of nonplanar diagrams in noncommutative field theory. (English summary) **2005k:81186**
Llanes-Estrada, F. J. *see* **Alkofer, R. et al., 2005i:81104**
Luo, Mingxing (*with* Wen, Congkao) One-loop maximal helicity violating amplitudes in $N = 4$ super Yang-Mills theories. (English summary) **2005i:81107**
Pelster, Axel (*with* Glaum, Konstantin) Recursive graphical solution of closed Schwinger-Dyson equations in φ^4-theory. I. Generation of connected and one-particle irreducible Feynman diagrams. (English summary) **2005e:81152**
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Rivelles, Victor O. *see* **Ferrari, A. F. et al., 2005f:81159**
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Sadooghi, Néda *see* **Alishahiha, Mohsen et al., 2005b:81112**
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Spradlin, Marcus *see* **Roiban, Radu et al., 2005h:81239**
Stockmeyer, Edgardo *see* **Espinosa, Olivier, 2005f:81158**
Suzuki, A. T. (*with* dos Santos, Esdras Santana; Schmidt, A. G. M.) General massive one-loop off-shell three-point functions. (English summary) **2005e:81153**
Svrček, Peter *see* **Cachazo, Freddy et al., 2005k:81184** *and* **2005k:81185**
Takács, Gábor *see* **Bajnok, Zoltán et al., 2005e:81151**
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Wohlgenannt, Michael *see* **Denk, S. et al., 2005b:81113**
Wu, Jun-Bao (*with* Zhu, Chuan-Jie) MHV vertices and scattering amplitudes in gauge theory. (English summary) **2005k:81188**
— (*with* Zhu, Chuan-Jie) MHV vertices and fermionic scattering amplitudes in gauge theory with quarks and gluinos. (English summary) **2005m:81214**
Zhu, Chuan-Jie The googly amplitudes in gauge theory. (English summary) **2005g:81209**
— *see also* **Wu, Jun-Bao, 2005k:81188** *and* **2005m:81214**

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Aganagic, Mina (*with* Intriligator, Ken; Vafa, Cumrun; Warner, Nicholas P.) The glueball superpotential. (English summary) **2005h:81346**
del Aguila, Francisco (*with* Pittau, Roberto) Recursive numerical calculus of one-loop tensor integrals. (English summary) **2005e:81145**
Armoni, Adi (*with* Shifman, M.; Veneziano, Gabriele) Exact results in non-supersymmetric large N orientifold field theories. (English summary) **2005d:81242**
— (*with* Shifman, M.; Veneziano, Gabriele) Refining the proof of planar equivalence. (English summary) **2005k:81359**
Arteaga, Daniel (*with* Parentani, Renaud; Verdaguer, Enric) Propagation in a thermal graviton background. (English summary)
Battistel, O. A. *see* **Dallabona, G.**
Bellucci, Stefano (*with* Bukhbinder, I. L.; Krykhtin, V. A.) Renormalization of the energy-momentum tensor in noncommutative complex scalar field theory. (English summary) **2005b:81106**
Bern, Zvi (*with* Dixon, Lance J.; Kosower, David A.) Two-loop $g \to gg$ splitting amplitudes in QCD. (English summary) **2005g:81346**
Bichl, A. A. (*with* Ertl, M.; Gerhold, A.; Grimstrup, Jesper Møller; Popp, L.; Putz, V.; Schweda, M.; Grosse, Harald; Wulkenhaar, Raimar) Noncommutative U(1) super-Yang-Mills theory: perturbative self-energy corrections. (English summary) **2005e:81245**
Bidder, Steven J. (*with* Bjerrum-Bohr, N. E. J.; Dixon, Lance J.; Dunbar, David C.) $N = 1$ supersymmetric one-loop amplitudes and the holomorphic anomaly of unitarity cuts. (English summary) **2005h:81341**
Bjerrum-Bohr, N. E. J. Quantum gravity at a large number of dimensions. (English summary) **2005e:83029**
— *see also* **Bidder, Steven J. et al., 2005h:81341**
Blümlein, Johannes Mathematical structure of anomalous dimensions and QCD Wilson coefficients in higher order. (English summary) **2005i:11182**
Bordalo, Pedro (*with* Cornalba, Lorenzo; Schiappa, Ricardo) Towards quantum dielectric branes: curvature corrections in abelian beta function and non-abelian Born-Infeld action. (English summary) **2005k:81214**
Broda, Bogusław 3-dimensional scalar-vector dual of topological σ-model. (English summary) **2005g:81286**
Bukhbinder, I. L. *see* **Bellucci, Stefano et al., 2005b:81106**
Chan, Chuan-Tsung (*with* Ho, Pei-Ming; Lee, Jen-Chi) Ward identities and high energy scattering amplitudes in string theory. (English summary) **2005h:81265**
Chiou, Dah-Wei (*with* Ganor, Ori J.) Noncommutative dipole field theories and unitarity. (English summary) **2005a:81241**
Cornalba, Lorenzo *see* **Bordalo, Pedro et al., 2005k:81214**
Dallabona, G. (*with* Battistel, O. A.) Ambiguities and symmetry relations associated with fermionic tensor densities. (English summary)
De Risi, Giuseppe (*with* Grignani, Gianluca; Orselli, Marta; Semenoff, Gordon W.) DLCQ string spectrum from $\mathcal{N} = 2$ SYM theory. (English summary) **2005h:81358**
Dixon, Lance J. *see* **Bern, Zvi et al., 2005g:81346** *and* **Bidder, Steven J. et al., 2005h:81341**
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Ferrari, A. F. (*with* Girotti, H. O.; Gomes, Marcelo O. C.; Petrov, A. Yu.; Ribeiro, Anderson André Genro; da Silva, A. J.) On the consistency of the three-dimensional noncommutative supersymmetric Yang-Mills theory. (English summary) **2005g:81199**
Ferrari, Frank Planar diagrams and Calabi-Yau spaces. (English summary) **2005f:81177**
Fiorenza, Domenico (*with* Murri, Riccardo) Matrix integrals and Feynman diagrams in the Kontsevich model. (English summary) **2005h:14027**
Fischer, Christian S. (*with* Gies, Holger) Renormalization flow of Yang-Mills propagators. (English summary) **2005h:81229**
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Giombi, Simone (*with* Ricci, Riccardo[2]; Robles-Llana, Daniel; Trancanelli, Diego) A note on twistor gravity amplitudes. (English summary) **2005g:81303**
Girotti, H. O. *see* **Ferrari, A. F. et al., 2005g:81199**
Gomes, Marcelo O. C. *see* **Ferrari, A. F. et al., 2005g:81199**
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Grosse, Harald *see* **Bichl, A. A. et al., 2005e:81245**
Hart, Alistair (*with* von Hippel, G. M.; Horgan, R. R.; Storoni, L. C.) Automatically generating Feynman rules for improved lattice field theories. (English summary) **2005m:81223**
von Hippel, G. M. *see* **Hart, Alistair et al., 2005m:81223**
Ho, Pei-Ming *see* **Chan, Chuan-Tsung et al., 2005h:81265**
't Hooft, Gerard Renormalization without infinities. (English summary) **2005m:81209**
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Intriligator, Ken *see* **Aganagic, Mina et al., 2005h:81346**
Kastler, Daniel On the exterior structure of graphs. (English summary) **2005b:81108**
Kitazawa, Yoshihisa (*with* Takayama, Yastoshi; Tomino, Dan) Wilson line correlators in $\mathcal{N} = 4$ non-commutative gauge theory on $S^2 \times S^2$. (English summary) **2005m:81324**
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Levell, Jonathan (*with* Travaglini, Gabriele) Effective actions, Wilson lines and the IR/UV mixing in noncommutative supersymmetric gauge theories. (English summary) **2005a:81250**
Maghini, Stefano (*with* Santambrogio, Alberto; Zanon, Daniela) Two-point functions for $\mathcal{N} = 4$ Konishi-like operators. (English summary) **2005i:81100**
Malbouisson, A. P. C. (*with* Malbouisson, J. M. C.; Santana, A. E.; da Silva, J. C.) Boundary behaviour of the four-point function in the 3-dimensional Gross-Neveu model. (English summary) **2005d:81381**
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Mariz, T. (*with* Nascimento, J. R. S.; Passos, E.; Ribeiro, R. F.) Chern-Simons-like action induced radiatively in general relativity. (English summary)
Mencattini, Igor (*with* Kreimer, Dirk) Insertion and elimination Lie algebra: the ladder case. (English summary) **2005b:17046**
Milton, Kimball A. Anomalies in $\mathcal{PT}$-symmetric quantum field theory. (English summary) **2005c:81193**
Minwalla, Shiraz Lectures on noncommutative theories. (English summary) **2005b:81217**
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Narayanan, Rajamani S. (*with* Neuberger, H.) Chiral symmetry breaking at large N_c. (English summary) **2005d:81199**
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Neuberger, H. *see* **Narayanan, Rajamani S., 2005d:81199**
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Reichenbach, Tobias Violation of remaining Lorentz symmetry in the approach of time-ordered perturbation theory to space-time noncommutativity. (English summary) **2005h:81408**
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Ribeiro, R. F. *see* **Mariz, T. et al.**
Ricci, Riccardo[2] *see* **Giombi, Simone et al., 2005g:81303**
Rim, Chaiho (*with* Seo, Yunseok; Yee, Jae Hyung) Perturbation theory of the space-time noncommutative real scalar field theories. (English summary) **2005f:81269**
Robbins, Daniel (*with* Sethi, Savdeep) The UV/IR interplay in theories with space-time varying non-commutativity. (English summary) **2005a:81253**
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Roiban, Radu (*with* Volovich, Anastasia) All conjugate-maximal-helicity-violating amplitudes from topological open string theory in twistor space. (English summary) **2005i:81156**
Rosenbaum, M. (*with* Vergara, J. David; Quevedo, Hernando) Hopf algebra primitives in perturbation quantum field theory. (English summary) **2005h:81223**
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Smilga, Andrei (*with* Vaĭnshteĭn, A. I.) Background field calculations and nonrenormalization theorems in 4d supersymmetric gauge theories and their low-dimensional descendants. (English summary) **2005m:81315**

Stapp, Henry P. Correspondence and analyticity. (English summary) **2005f:81285**
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Volovich, Anastasia *see* **Roiban, Radu, 2005i:81156**
Volovich, Igor V. (*with* Prokhorenko, D. V.) Renormalizations in quantum electrodynamics, and Hopf algebras. (Russian. Russian summary) **2005g:81203**
Warner, Nicholas P. *see* **Aganagic, Mina et al., 2005h:81346**
Wulkenhaar, Raimar *see* **Bichl, A. A. et al., 2005e:81245**
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Zanon, Daniela *see* **Maghini, Stefano et al., 2005i:81100**
Zinn-Justin, Paul (*with* Zuber, Jean-Bernard) Matrix integrals and the generation and counting of virtual tangles and links. (English summary) **2005d:57003**
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Ahmedov, Hadji (*with* Duru, I. H.) Casimir energy for a wedge with three surfaces and for a pyramidal cavity. (English summary) **2005m:81215**
— (*with* Duru, I. H.) Casimir energy in a conical wedge and a conical cavity. (English summary) **2005m:81216**
de Albuquerque, Luiz C. (*with* Cavalcanti, R. M.) Casimir effect for the scalar field under Robin boundary conditions: a functional integral approach. (English summary) **2005c:81145**
Alkalaev, K. B. Two-column massless higher-spin fields on the space AdS_d. (Russian. Russian summary) **2005k:81189**
Álvarez, Enrique (*with* Conde, Jorge; Hernández, Lorenzo) Goursat's problem and the holographic principle. (English summary) **2005m:81217**
Aurilia, Antonio (*with* Spallucci, Euro) Quantum fluctuations of a "constant" gauge field. (English summary) **2005f:81160**
— (*with* Spallucci, Euro) Quantum effects of a massive 3-form coupled to a Dirac field. (English summary) **2005g:81210**
Bachelot, Alain Klein paradox and superradiance for the charged Klein-Gordon field. **2005m:81218**
Barvinskiĭ, A. O. (*with* Gusev, Yu. V.; Mukhanov, V. F.; Nesterov, D. V.) Nonperturbative late time asymptotics for the heat kernel in gravity theory. (English summary) **2005d:81261**
Bekaert, Xavier (*with* Boulanger, Nicolas) Tensor gauge fields in arbitrary representations of $GL(D,\mathbb{R})$. Duality and Poincaré lemma. (English summary) **2005e:81154**
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de Berredo-Peixoto, Guilherme (*with* Gorbar, Eduard V.; Shapiro, Ilya L.) On the renormalization group for the interacting massive scalar field theory in curved space. (English summary) **2005d:81262**
Biswas, Rahul (*with* Keski-Vakkuri, Esko; Leigh, Robert G.; Nowling, Sean; Sharpe, Eric) The taming of closed time-like curves. (English summary) **2005a:81151**
Boulanger, Nicolas *see* **Bekaert, Xavier, 2005e:81154**
Brihaye, Yves (*with* Hartmann, Betti; Radu, Eugen[2]) Boson stars in SU(2) Yang-Mills scalar field theories. (English summary) **2005h:81240**
Bronnikov, K. A. (*with* Tagirov, È. A.) Quantum theory of scalar field in isotropic world. (English and Russian summaries) **2005h:81241**
Brustein, Ram (*with* Yarom, Amos) Thermodynamics and area in Minkowski space: heat capacity of entanglement. (English summary) **2005i:81109**
Bytsenko, Andrei A. (*with* Guimarães, M. E. X.; Mendes, V. S.) Casimir effect for gauge fields in spaces with negative constant curvature. (English summary)
Capelas de Oliveira, E. *see* **da Rocha, R., 2005j:81121**
Cavalcanti, R. M. *see* **de Albuquerque, Luiz C., 2005c:81145**
Chen, Yujun Quantum Liouville theory and BTZ black hole entropy. (English summary) **2005h:81242**
Cognola, Guido (*with* Elizalde, Emilio; Nojiri, Shin'ichi; Odintsov, Sergei D.; Zerbini, Sergio) One-loop $f(R)$ gravity in de Sitter universe. (English summary) **2005j:81117**
Conde, Jorge *see* **Álvarez, Enrique et al., 2005m:81217**
Corichi, Alejandro (*with* Cortez, Jerónimo; Quevedo, Hernando) Schrödinger and Fock representation for a field theory on curved spacetime. (English summary) **2005f:81161**
Corrigan, Edward (*with* Zambon, C.) Aspects of sine-Gordon solitons, defects and gates. (English summary) **2005j:81118**
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Davtyan, R. S. *see* **Saaryan, A. A. et al., 2005d:81264**
Deser, S. (*with* Seminara, Domenico) Duality invariance of all free bosonic and fermionic gauge fields. (English summary) **2005i:81110**
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Doyon, Benjamin Form factors of Ising spin and disorder fields on the Poincaré disc. (English summary) **2005h:81244**
Duru, I. H. *see* **Ahmedov, Hadji, 2005m:81215** *and* **2005m:81216**
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Fabbri, Alessandro (*with* Navarro-Salas, José; Olmo, G. J.) Particles and energy fluxes from a conformal field theory perspective. (English summary) **2005h:81245**
Fan, Hong Yi[1] (*with* He, Hai-Yan) On the entangled state representation, excitation representation and effective number-phase state representations in Rindler space. (English summary) **2005e:81155**
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Fewster, Christopher J. (*with* Mistry, B.) Quantum weak energy inequalities for the Dirac field in flat spacetime. (English summary) **2005b:81114**
— Quantum energy inequalities in two dimensions. (English summary) **2005i:81111**
Fischer, Uwe R. Quasiparticle universes in Bose-Einstein condensates. (English summary)
Franco, Daniel H. T. (*with* Polito, Caio M. M.) Supersymmetric field-theoretic models on a supermanifold. (English summary) **2005h:81246**
Fulling, S. A. (*with* Unruh, William G.) Comment on: "Boundary conditions in the Unruh problem" [Phys. Rev. D (3) **65** (2002), no. 2, 025004, 23 pp; MR1892157 (2003b:81138)] by N. B. Narozhny, A. M. Fedotov, B. M. Karnakov, V. D. Mur and V. A. Belinskii. (English summary) **2005j:81119**
— *see also* **Narozhnyĭ, N. B. et al., 2005j:81120**
Furtado, Claudio *see* **de M. Carvalho, Alexandre M. et al., 2005i:81112**
Garbrecht, Björn (*with* Prokopec, Tomislav) Unruh response functions for scalar fields in de Sitter space. (English summary) **2005g:81211**
Gazeau, Jean-Pierre (*with* Piechocki, Włodzimierz) Coherent state quantization of a particle in de Sitter space. (English summary) **2005m:81219**
Gorbar, Eduard V. *see* **de Berredo-Peixoto, Guilherme et al., 2005d:81262**
Gottschalk, Hanno (*with* Thaler, Horst) An indefinite metric model for interacting quantum fields on globally hyperbolic space-times. (English summary) **2005d:81263**
Graham, Noah (*with* Olum, Ken D.) Erratum: "Negative energy densities in quantum field theory with a background potential" [Phys. Rev. D (3) **67** (2003), no. 8, 085014, 16 pp; MR1995178 (2004e:81101)]. **Guido, Daniele** (*with* Longo, Roberto) A converse Hawking-Unruh effect and dS^2/CFT correspondence. (English summary) **2005b:81115**
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Havare, Ali (*with* Yetkin, Taylan; Korunur, Murat; Sogut, Kenan) Creation of spin-1/2 particles in de Sitter space-time. (English summary) **2005b:81116**
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Leonhardt, Thorsten (*with* Rühl, Werner; Manvelyan, Ruben) The group approach to AdS space propagators: a fast algorithm. (English summary) **2005b:81119**
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Manvelyan, Ruben (*with* Rühl, Werner) Conformal coupling of higher spin gauge fields to a scalar field in AdS_4 and generalized Weyl invariance. (English summary) **2005b:81120**
— (*with* Rühl, Werner) The masses of gauge fields in higher spin field theory on the bulk of AdS_4. (English summary) **2005k:81190**
— *see also* **Leonhardt, Thorsten et al., 2005b:81119**
Matveev, Alekseĭ S. (*with* Vasil′ev, M. A.) Dual formulation for higher spin gauge fields in $(A)dS_d$. (English summary) **2005h:81248**
de M. Carvalho, Alexandre M. (*with* Furtado, Claudio; Pedrosa, I. A.) Scalar fields and exact invariants in a Friedmann-Robertson-Walker spacetime. (English summary) **2005i:81112**
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Mikheev, V. V. (*with* Shirokov, Igor V.) Application of the method of K orbits to problems of the thermodynamics of noncompact Lie groups. (Russian. Russian summary) **2005g:81212**
Mistry, B. *see* **Fewster, Christopher J., 2005b:81114**
Moretti, Valter (*with* Pinamonti, Nicola) Holography and $SL(2,\mathbb{R})$ symmetry in 2D Rindler space-time. (English summary) **2005k:81191**
— (*with* Pinamonti, Nicola) Virasoro algebra with central charge $c = 1$ on the horizon of a two-dimensional-Rindler space-time. (English summary) **2005k:81192**
Mukhanov, V. F. *see* **Barvinskiĭ, A. O. et al., 2005d:81261**
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Narozhnyĭ, N. B. (*with* Fedotov, A. M.; Karnakov, B. M.; Mur, V. D.; Belinskiĭ, V. A.) Reply to: "Comment on: 'Boundary conditions in the Unruh problem' " [Phys. Rev. D (3) **70** (2004), no. 4, 048701, 4 pp.; MR2113823 (2005j:81119)] by S. A. Fulling and W. G. Unruh. (English summary) **2005j:81120**
— *see also* **Fulling, S. A., 2005j:81119**
Navarro-Salas, José *see* **Fabbri, Alessandro et al., 2005h:81245**
Naylor, Wade (*with* Sasaki, Misao) Quantum fluctuations for de Sitter branes in bulk AdS_5. (English summary) **2005m:81220**
Nesterov, D. V. *see* **Barvinskiĭ, A. O. et al., 2005d:81261**
Nojiri, Shin'ichi *see* **Cognola, Guido et al., 2005j:81117**
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Radu, Eugen[2] *see* **Brihaye, Yves et al., 2005h:81240**

da Rocha, R. (*with* Capelas de Oliveira, E.) The Casimir operator of SO(1, 2) and the Pöschl-Teller potential: an AdS approach. (English and Spanish summaries) **2005j:81121**

Rouhani, S. (*with* Takook, M. V.) Tree-level scattering amplitude in de Sitter space. (English summary) **2005f:81162**

Rühl, Werner *see* **Leonhardt, Thorsten et al., 2005b:81119; Manvelyan, Ruben, 2005b:81120** *and* **2005k:81190**

Saaryan, A. A. (*with* Setare, Mohammad R.) Surface vacuum energy and stresses on a plate uniformly accelerated through the Fulling-Rindler vacuum. (English summary) **2005g:81213**

— (*with* Davtyan, R. S.; Yeranyan, A. H.) Casimir energy in the Fulling-Rindler vacuum. (English summary) **2005d:81264**

— Energy-momentum tensor for a scalar field on manifolds with boundaries. (English summary) **2005f:81163**

— Wightman function and Casimir densities on AdS bulk with application to the Randall-Sundrum braneworld. (English summary) **2005k:81193**

Sasaki, Misao *see* **Naylor, Wade, 2005m:81220**

Schmid, Harald Bound state solutions of the Dirac equation in the extreme Kerr geometry. (English summary) **2005k:81194**

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Seminara, Domenico *see* **Deser, S., 2005i:81110**

Setare, Mohammad R. Casimir densities for parallel plate in the domain wall background. (English summary) **2005b:81121**

— *see also* **Saaryan, A. A., 2005g:81213**

Shapiro, Ilya L. *see* **de Berredo-Peixoto, Guilherme et al., 2005d:81262**

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Takook, M. V. *see* **Rouhani, S., 2005f:81162**

Tammelo, Risto (*with* Laas, Tõnu; Mankin, Romi) On electromagnetic wave tails in curved spacetimes. (English summary) **2005g:81214**

Terashima, Hiroaki (*with* Ueda, Masahito) Spin decoherence by spacetime curvature. (English summary) **2005i:81113**

Thaler, Horst *see* **Gottschalk, Hanno, 2005d:81263**

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Vasil′ev, M. A. Higher spin gauge theories in various dimensions. (English summary) **2005k:81195**

— *see also* **Matveev, Alekseĭ S., 2005h:81248**

Visinescu, Mihai Symmetries and supersymmetries of the Dirac-type operators on curved spaces. (English summary)

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Aloisio, Roberto (*with* Galante, Angelo; Grillo, Aurelio Federico; Méndez, Fernando; Carmona, José M.; Cortés, José Luis) Particle and antiparticle sectors in DSR1 and κ-Minkowski space-time. (English summary) **2005d:83037**

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Antonsen, Frank *see* **Bormann, Karsten, 2005k:83062**

Arcioni, Giovanni On 't Hooft's S-matrix ansatz for quantum black holes. (English summary) **2005i:83052**

Bahns, Dorothea (*with* Doplicher, S.; Fredenhagen, Klaus; Piacitelli, Gherardo) Ultraviolet finite quantum field theory on quantum spacetime. (English summary) **2005b:81207**

Balek, V. (*with* Demetrian, M.) Euclidean action for vacuum decay in a de Sitter universe. (English summary) **2005j:83043**

Bei, Xiaomin (*with* Shi, Changsheng; Liu, Zhongzhu) Proca effect in Kerr-Newman metric. (English summary)

Belich, H., Jr. (*with* Ferreira, M. M., Jr.; Helayël-Neto, J. A.; Orlando, M. T. D.) Erratum: "Dimensional reduction of a Lorentz- and CPT-violating Maxwell-Chern-Simons model" [Phys. Rev. D (3) **67** (2003), no. 12, 125011, 10 pp; MR2010222 (2004h:81143)]. **2005g:81192**

Belokurov, V. V. *see* **Solov′ev, Yurīĭ Petrovich et al., 2005k:58020**

Bogoslovskiĭ, G. Yu. (*with* Goenner, Hubert F. M.) Generalized Lorentz symmetry and nonlinear spinor fields in a flat Finslerian space-time. (English summary) **2005d:81183**

Bolen, Brett (*with* Bombelli, Luca; Corichi, Alejandro) Semiclassical states in quantum cosmology: Bianchi I coherent states. (English summary) **2005g:83045**

Bombelli, Luca *see* **Bolen, Brett et al., 2005g:83045**

Bordag, M. *see* **Pirozhenko, I. G. et al., 2005k:58047**

Bormann, Karsten (*with* Antonsen, Frank) Zero-point energy of quantum fields in a Schwarzschild geometry. (English summary) **2005k:83062**

Bousso, Raphael Bound states and the Bekenstein bound. (English summary) **2005c:83031**

— Flat space physics from holography. (English summary) **2005j:83107**

Bruce, S. Gauge-invariant massive vector fields. (English summary)

Brunetti, Romeo (*with* Fredenhagen, Klaus; Verch, Rainer) The generally covariant locality principle—a new paradigm for local quantum field theory. (English summary) **2005a:81128**

Burko, Lior M. Orbital evolution of a test particle around a black hole. II. Comparison of contributions of spin-orbit coupling and the self-force. (English summary)

Capovilla, R. (*with* Guven, Jemal; Rojas, Efraín) Hamiltonian dynamics of extended objects. (English summary) **2005h:83013**

Carlini Vallilo, Brenno *see* **Chandía, Osvaldo, 2005b:81133**

Carmona, José M. *see* **Aloisio, Roberto et al., 2005d:83037**

Carneiro da Cunha, Bruno Tachyon effective dynamics and de Sitter vacua. (English summary) **2005h:81264**

Casini, H. Geometric entropy, area and strong subadditivity. (English summary) **2005g:83061**

Chandía, Osvaldo (*with* Carlini Vallilo, Brenno) Conformal invariance of the pure spinor superstring in a curved background. (English summary) **2005b:81133**

Chen, Songbai (*with* Jing, Jiliang) Asymptotic quasinormal modes of a coupled scalar field in the Garfinkle-Horowitz-Strominger dilaton spacetime. (English summary) **2005j:83044**

— (*with* Jing, Jiliang) Dirac quasinormal modes of the Garfinkle-Horowitz-Strominger dilaton black-hole spacetime. (English summary) **2005j:83054**

Cho, Hing Tong (*with* Lin, Y.-C.) WKB analysis of the scattering of massive Dirac fields in Schwarzschild black-hole spacetimes. (English summary) **2005m:81078**

Cho, Yoshinori (*with* Shiraishi, Kiyoshi) One-loop effective potential for the vacuum gauge field in $M_3 \times S^3 \times S^1$ spacetime. (English summary) **2005k:83130**

Cognola, Guido (*with* Zerbini, Sergio) Effective action for scalar fields and generalized zeta-function regularization. (English summary) **2005d:81255**

Corichi, Alejandro *see* **Bolen, Brett et al., 2005g:83045**

Cortés, José Luis *see* **Aloisio, Roberto et al., 2005d:83037**

Cotăescu, Ion I. Polarized Dirac fermions in de Sitter spacetime. (English summary) **2005m:83083**

— Discrete quantum modes of the Dirac field in AdS_{d+1} backgrounds. (English summary) **2005d:83107**

Cvitan, M. (*with* Pallua, S.; Prester, Predrag) Conformal entropy as a consequence of the properties of stationary Killing horizons. (English summary) **2005h:83102**

Czuchry, Ewa *see* **Jezierski, Jacek et al., 2005m:83018**

Darabi, Farhad *see* **Moayedi, Seyed Kamran et al., (2005f:00012)**

D'Auria, Riccardo *see* **Andrianopoli, Laura, 2005c:83029**

De Carli, E. (*with* Ferreira, L. A.) A model for Hopfions on the space-time $S^3 \times \mathbb{R}$. (English summary) **2005i:58020**

De Lorenci, V. A. (*with* Moreira, E. S., Jr.) Spinning strings, cosmic dislocations, and chronology protection. (English summary) **2005h:83142**

Demetrian, M. *see* **Balek, V., 2005j:83043**

Deser, S. Massive higher spin fields in (A)dS and in interaction. (English summary) **2005g:83103**

— (*with* Waldron, Andrew) Conformal invariance of partially massless higher spins. (English summary) **2005h:81165**

Dimock, J. Markov quantum fields on a manifold. (English summary) **2005d:81231**

van Dongen, Jeroen (*with* de Haro, Sebastian) On black hole complementarity. (English summary) **2005j:83057**

Donoghue, John F. (*with* Holstein, Barry R.; Garbrecht, Björn; Konstandin, Thomas) Erratum to: "Quantum corrections to the Reissner-Nordström and Kerr-Newman metrics" [Phys. Lett. B **529** (2002), no. 1-2, 132–142; MR1891765 (2003b:83043)].

Doplicher, S. *see* **Bahns, Dorothea et al., 2005b:81207**

Dorn, Harald (*with* Salizzoni, Mario; Sieg, Christoph) On the propagator of a scalar field in AdS × S and in its plane wave limit. (English summary) **2005k:83155**

Dowker, J. S. Spherical universe topology and the Casimir effect. (English summary) **2005h:58068**

Dray, Tevian General relativity and signature change. (English summary) **2005m:53147**

Drukker, Nadav (*with* Fiol, Bartomeu; Simón, Joan) Gödel-type universes and the Landau problem. (English summary) **2005k:83015**

Dütsch, Michael (*with* Rehren, Karl-Henning) Generalized free fields and the AdS-CFT correspondence. (English summary) **2005a:81129**

Escalante, Alberto Deformation dynamics and the Gauss-Bonnet topological term in string theory. (English summary) **2005h:81275**

Esposito, Giampiero Euclidean quantum gravity in light of spectral geometry. (English summary) **2005k:58048**

— (*with* Fucci, Guglielmo; Kamenshchik, A. Yu.; Kirsten, Klaus) Spectral asymptotics of Euclidean quantum gravity with diff-invariant boundary conditions. (English summary) **2005m:83044**

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Firsova, N. E. S-matrices for spinor particles on Reissner-Nordström black holes. (English summary) **2005a:83058**

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Galazhinskiĭ, A. V. (*with* Myagkiĭ, A. N.) $N = 4$ superconformal algebra in curved space, and pseudohyper-Kählerian geometry. (Russian. Russian summary) **2005c:81084**

Gao, Xin-Qin (*with* Qiang, Li-E; Zhu, Jian-Yang; Zhao, Zheng[1]) Discussing again on the thermal property of Kinnersley black hole using a new tortoise coordinate transformation. (English summary) **2005h:83105**

Garay, L. J. *see* **González-Díaz, Pedro F., 2005a:83076**

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Garriga, Jaume Moduli fields in warped brane-worlds. (English summary) **2005a:83094**

Ge, Xian-Hui (*with* Shen, You-Gen) Can quantum information be cloned in Kerr black holes? (English summary) **2005b:83058**

— (*with* Shen, You-Gen) Reconsidering the black hole final state in Dirac fields. (English summary) **2005j:83058**

Ghosh, Amit[2] (*with* Mitra, Parthasarathi) An improved estimate of black hole entropy in the quantum geometry approach. (English summary) **2005m:83063**

— (*with* Mitra, Parthasarathi) Log correction to the black hole area law. (English summary) **2005i:83064**

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Giacomini, Alex Classical Liouville theory and the microscopic interpretation of black hole

entropy. (English summary) **2005c:83034**
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Goldberger, Walter D. (*with* Rothstein, Ira Z.) Effective field theory and unification in AdS backgrounds. (English summary) **2005a:83097**
— (*with* Rothstein, Ira Z.) Systematics of coupling flows in AdS backgrounds. (English summary) **2005a:83098**
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Gorbar, Eduard V. Renormalization group and decoupling in curved space. (English summary) **2005f:81155**
Gottesman, Daniel (*with* Preskill, John) Comment on: "The black hole final state" [J. High Energy Phys. **2004**, no. 2, 008, 15 pp. (electronic); MR2046801 (2005b:83061)] by G. T. Horowitz and J. Maldacena. (English summary) **2005b:83059**
Grib, A. A. (*with* Pavlov, Yu. V.) Quantum field theory in curved space-time and the early Universe. (English summary)
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Higasida, Yoji (*with* Yajima, Satoshi; Kubota, Shin-Ichiro; Tokuo, Shoshi; Kamo, Yuki) Contributions of four-gravitino interactions to Weyl anomaly in $d = 4$, $N = 1$ supergravity. (English summary) **2005g:81291**
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Hollands, Stefan (*with* Wald, Robert M.) On the renormalization group in curved spacetime. (English summary) **2005d:81258**
— (*with* Wald, Robert M.) Quantum field theory is not merely quantum mechanics applied to low energy effective degrees of freedom. (English summary) **2005g:81201**
Holstein, Barry R. *see* **Donoghue, John F. et al.**
Horowitz, Gary T. (*with* Maldacena, Juan M.) The black hole final state. (English summary) **2005b:83061**
— *see also* **Gottesman, Daniel, 2005b:83059**
Hu, B. L. (*with* Roura, Albert; Verdaguer, Enric) Stability of semiclassical gravity solutions with respect to quantum metric fluctuations. (English summary) **2005h:83073**
Iorio, Alfredo (*with* Lambiase, G.; Vitiello, Giuseppe) Entangled quantum fields near the event horizon and entropy. (English summary) **2005e:83032**
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Jing, Jiliang Dirac quasinormal modes of the Reissner-Nordström de Sitter black hole. (English summary)
— *see also* **Chen, Songbai, 2005j:83044** *and* **2005j:83054**
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Jung, Eylee (*with* Park, DaeKil) Effect of scalar mass in the absorption and emission spectra of Schwarzschild black hole. (English summary) **2005b:83062**
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Khanna, Gaurav *see* **Strafuss, Matthew J., 2005j:83018**
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— Quasiclassical wormholes with a smooth throat. (Russian. Russian summary) **2005d:83100**
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Li, Xiang[3] (*with* Shen, You-Gen) Gravitational thermodynamics of a Vaidya black hole. (English summary) **2005d:83076**
— (*with* Shen, You-Gen) About the generalized uncertainty principle. (English summary)
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Loran, Farhang φ^4-model and holography in four dimensions. (English summary) **2005h:81208**
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— *see also* **Grib, A. A.**
Perry, Malcolm J. Black holes and string theory. (*see* **2005j:83002**)
Piacitelli, Gherardo *see* **Bahns, Dorothea et al., 2005b:81207**
Pirozhenko, I. G. (*with* Nesterenko, Vladimir; Bordag, M.) Integral equations for heat kernel in compound media. (English summary) **2005k:58047**
Popov, Arkadiĭ Aleksandrovich Analytical approximation for $\langle\varphi^2\rangle$ of a quantized scalar field in ultrastatic asymptotically flat spacetimes. (English summary) **2005h:83084**
Preskill, John *see* **Gottesman, Daniel, 2005b:83059**
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Prokopec, Tomislav (*with* Woodard, Richard) Dynamics of superhorizon photons during inflation with vacuum polarization. (English summary) **2005a:83048**
Qiang, Li-E *see* **Gao, Xin-Qin et al., 2005h:83105**
Rahaman, F. (*with* Ghosh, P.; Kalam, M.; Mandal, Swarnendu) Multidimensional global monopole in presence of electromagnetic field. (English summary) **2005k:83143**
Rehren, Karl-Henning *see* **Dütsch, Michael, 2005a:81129**
Ribeiro, Pedro Lauridsen Renormalization group flow in algebraic holography. (English summary) **2005g:81207**
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Rühl, Werner The production of masses for higher spin gauge fields on AdS(4) from AdS/CFT correspondence. (English summary) **2005m:83084**
— The masses of gauge fields in higher spin field theory on AdS(4). (English summary) **2005h:81219**
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Ruzzi, Giuseppe Essential properties of the vacuum sector for a theory of superselection sectors. (English summary) **2005e:81131**
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Sanchez, Norma G. Conceptual unification of elementary particles, black holes, quantum de Sitter and anti-de Sitter string states. (English summary) **2005j:83125**
Sasaki, Misao *see* **Flachi, Antonino et al., 2005m:83158**
Schlicht, Sebastian Considerations on the Unruh effect: causality and regularization. (English summary) **2005g:83055**
Schroer, Bert Thermal behavior induced by vacuum polarization on causal horizons in comparison with the standard heat bath formalism. (English summary) **2005h:82011**
Setare, Mohammad R. Logarithmic correction to the Cardy-Verlinde formula in Achúcarro-Oritz black hole. (English summary) [Logarithmic correction to the Cardy-Verlinde formula in Achúcarro-Ortiz black hole] **2005c:83043**
— Casimir stress for cylindrical shell in de Sitter space. (English summary) **2005c:83027**
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Shen, You-Gen *see* **Li, Xiang[3], 2005a:83047; 2005d:83076; 2005i:83041; Ge, Xian-Hui, 2005b:83058** *and* **2005j:83058**
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Shiraishi, Kiyoshi *see* **Cho, Yoshinori, 2005k:83130**
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Šijački, Djordje $\widetilde{\mathrm{SL}}(4, \mathbf{R})$ embedding for a 3D world spinor equation. (English summary) **2005j:81079**
Simón, Joan *see* **Drukker, Nadav et al., 2005k:83015**
Siopsis, George Large mass expansion of quasi-normal modes in AdS_5. (English summary) **2005b:83105**
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Solov'ev, Yuriĭ Petrovich (*with* Belokurov, V. V.; Shavgulidze, E. T.) Existence of functional integrals in a model of quantum field theory on a loop space. (Russian) **2005k:58020**
Son, Edwin J. *see* **Kim, Won Tae et al., 2005h:83152**
Strafuss, Matthew J. (*with* Khanna, Gaurav) Massive scalar field instability in Kerr spacetime. (English summary) **2005j:83018**
Strominger, Andrew (*with* Thompson, David Mattoon) Quantum Bousso bound. (English summary) **2005j:83070**
Susskind, Leonard Twenty years of debate with Stephen. (*see* **2005j:83002**)
Tagirov, È. A. Effective space quantization in Friedmann-Robertson-Walker models. (English and Russian summaries) **2005a:83049**
Tanimoto, Masayuki Scalar fields on $\widetilde{\mathrm{SL}}(2, \mathbf{R})$ and $H^2 \times \mathbf{R}$ geometric spacetimes and linear perturbations. (English summary) **2005j:83045**
Terashima, Hiroaki (*with* Ueda, Masahito) Einstein-Podolsky-Rosen correlation in a gravitational field. (English summary) **2005d:81076**
Terno, Daniel R. Entropy, holography, and the second law. (English summary) **2005h:83131**
Thompson, David Mattoon *see* **Strominger, Andrew, 2005j:83070**
Tokuo, Shoshi *see* **Higasida, Yoji et al., 2005g:81291**
Tsionenko, D. A. The Dirac-Kähler equation in non-Euclidean space-time. (Russian. English and Russian summaries) **2005e:83033**
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Vagenas, Elias C. *see* **Medved, A. J. M., 2005i:83072**
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Waldron, Andrew *see* **Deser, S., 2005h:81165**
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Wang, Charles H.-T. (*with* Kessari, Smaragda; Irvine, Edward R.) An action principle for the quantization of parametric theories and nonlinear quantum cosmology. (English summary) **2005a:83046**
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Yajima, Satoshi *see* **Higasida, Yoji et al., 2005g:81291**
Yang, Xue Jun[1] (*with* Zhao, Zheng[1]) Quantum thermal effect of arbitrarily accelerating Kerr black hole. (English summary) **2005m:83052**
Yong, Guo *see* **Zhao, Ren et al., 2005a:83071**
Yoon, Myung Seok *see* **Kim, Won Tae et al., 2005h:83152**
Zaslavskii, O. B. Near-extremal and extremal quantum-corrected two-dimensional charged black holes. (English summary) **2005c:83044**
— Two-dimensional quantum-corrected black hole in a finite size cavity. (English summary) **2005e:83070**
Zecca, A. The spin connection, the Dirac and the Einstein-Dirac equation in Robertson-Walker space-time. (English summary) **2005b:83072**
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Zhang, Li Chun *see* **Zhao, Ren, 2005b:83069**
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Zhang, Yuan-Zhong *see* **Nandi, Kamal Kanti et al., 2005h:83083**
Zhao, Ren (*with* Yong, Guo; Jun, Ding Bing) The entropy of a Kim black hole and the Nernst theorem. (English summary) **2005a:83071**
— (*with* Zhang, Li Chun) Statistical entropy of a rotating higher-dimensional black hole. (English summary) **2005b:83069**
— (*with* Zhang, Sheng Li[2]) Statistical entropy of the A torus-like black hole. (English summary) **2005i:83081**
Zhao, Zheng[1] *see* **Gao, Xin-Qin et al., 2005h:83105** *and* **Yang, Xue Jun[1], 2005m:83052**
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Zucchini, Roberto Abelian duality and abelian Wilson loops. (English summary) **2005d:58056**

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Antonov, D. V. (*with* Del Debbio, Luigi; Ebert, Dietmar) k-string tensions in the 4-d $SU(N)$-inspired dual abelian-Higgs-type theory. (English summary) **2005k:81196**
Arakawa, Gaku (*with* Ichinose, Ikuo) Z_N gauge theories on a lattice and quantum memory. (English summary) **2005b:81122**
— (*with* Ichinose, Ikuo; Matsui, Tetsuo; Takeda, Koujin) Self-duality and phase structure of the 4D random-plaquette Z_2 gauge model. (English summary)
Attal, Romain Homotopy and duality in non-abelian lattice gauge theory. (English summary) **2005j:81122**
Balachandran, Aiyalam P. (*with* Immirzi, Giorgio) Fuzzy Ginsparg-Wilson algebra: a solution of the fermion doubling problem. (English summary) **2005d:81265**
Barresi, A. (*with* Burgio, Giuseppe[2]; D'Elia, M.; Müller-Preussker, M.) A finite temperature investigation of dual superconductivity in the modified $SO(3)$ lattice gauge theory. (English summary)
Bednorz, Adam Bosonization of QED fermions on the $(3 + 1)$D lattice. (English summary) **2005e:81156**
Bonini, Marisa (*with* Feo, Alessandra) Wess-Zumino model with exact supersymmetry on the lattice. (English summary) **2005g:81215**
Borisenko, O. A. (*with* Kushnir, Vladimir; Voloshin, Sergei Mikolayovich) Dual formulation of nonabelian lattice models and related mathematical problems. (English, Russian and Ukrainian summaries) **2005d:81266**
Burgio, Giuseppe[2] *see* **Barresi, A. et al.**
Carlsson, Jesse (*with* McIntosh, J. A. L.; McKellar, B. H. J.; Hollenberg, Lloyd C. L.) Improved Hamiltonian lattice gauge theory. (English summary)
Catterall, Simon (*with* Ghadab, Sofiane) Lattice sigma models with exact supersymmetry. (English summary) **2005d:81267**
— A geometrical approach to $N = 2$ super Yang-Mills theory on the two dimensional lattice. (English summary) **2005k:81197**
Chiu, Ting-Wai Chiral anomaly and index theorem on a finite lattice. (English summary) **2005h:81250**
— The index and axial anomaly of a lattice Dirac operator. (English summary)
DeGrand, Thomas Ginsparg-Wilson games. (English summary)
Del Debbio, Luigi *see* **Antonov, D. V. et al., 2005k:81196**
D'Elia, M. *see* **Barresi, A. et al.**
Di Renzo, Francesco (*with* Mantovi, Andrea; Miccio, Vincenzo; Schröder, York) 3-d lattice Yang-Mills free energy to four loops. (English summary)
Dowker, Fay (*with* Henson, Joe) Spontaneous collapse models on a lattice. (English summary) **2005g:81216**
Drescher, Thomas (*with* Lang, Christian B.) Dirac zero-modes in compact U(1) gauge theory. (English summary) **2005m:81221**
Ebert, Dietmar *see* **Antonov, D. V. et al., 2005k:81196**
Faria da Veiga, Paulo A. (*with* O'Carroll, Michael L.; Schor, Ricardo) Existence of baryons, baryon spectrum and mass splitting in strong coupling lattice QCD. (English summary) **2005j:81123**
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Foster, Brendan Z. (*with* Jacobson, Ted) Quantum field theory on a growing lattice. (English summary) **2005i:81114**
Ghadab, Sofiane *see* **Catterall, Simon, 2005d:81267**
Giedt, Joel (*with* Poppitz, Erich) Lattice supersymmetry, superfields and renormalization. (English summary) **2005g:81217**
González-Arroyo, Antonio (*with* Pena, Carlos) Nahm transformation on the lattice. (English summary)
Harada, Motomichi (*with* Pinsky, Stephen) $\mathcal{N} = 1$ super Yang-Mills theory on a $(3 + 1)$ dimensional transverse lattice with one exact supersymmetry. (English summary) **2005m:81222**
Hart, Alistair (*with* von Hippel, G. M.; Horgan, R. R.; Storoni, L. C.) Automatically generating Feynman rules for improved lattice field theories. (English summary) **2005m:81223**
Hasenbusch, Martin (*with* Necco, Silvia) SU(3) lattice gauge theory with a mixed fundamental and adjoint plaquette action: lattice artefacts. (English summary) **2005h:81251**
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Immirzi, Giorgio *see* **Balachandran, Aiyalam P., 2005d:81265**
Inagaki, Teruaki (*with* Suzuki, Hiroshi) Majorana and Majorana-Weyl fermions in lattice gauge theory. (English summary) **2005f:81164**
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Kerler, W. Dirac operator normality and chiral properties. (English summary) **2005h:81252**
Kikukawa, Yoshio (*with* Suzuki, Hiroshi) A local formulation of lattice Wess-Zumino model with exact $U(1)_R$ symmetry. (English summary)
Kirchberg, A. (*with* Länge, J. D.; Wipf, A.) From the Dirac operator to Wess-Zumino models on spatial lattices. (English summary) **2005k:81198**
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McIntosh, J. A. L. *see* **Carlsson, Jesse et al.**
McKellar, B. H. J. *see* **Carlsson, Jesse et al.**
Meyer, Harvey (*with* Teper, Michael) Confinement and the effective string theory in $SU(N \to \infty)$: a lattice study. (English summary) **2005k:81199**
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Müller-Preussker, M. *see* **Barresi, A. et al.**

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— Various super Yang-Mills theories with exact supersymmetry on the lattice. (English summary) **2005k:81201**
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Items with secondary classifications in 81T25

Al'beverio, S. (*with* Liang, Song) A new lattice approximation for the Høegh-Krohn quantum field model. (English summary) **2005h:81253**
Andersson, Toke (*with* Damgaard, P. H.; Splittorff, K.) The replica method and Toda lattice equations for QCD_3. (English summary) **2005h:81423**
Angel, Omer (*with* Schramm, Oded) Uniform infinite planar triangulations. (English summary) **2005b:60021**
— Growth and percolation on the uniform infinite planar triangulation. (English summary) **2005b:60015**
Bär, Oliver (*with* Campos, Isabel) Global anomalies in chiral lattice gauge theory. (English summary) **2005h:81340**
Bazzocchi, F. (*with* Cirafici, M.; Maccaferri, Carlo; Profumo, S.) Matrix models of noncommutative 3D lattice gauge theories. (English summary) **2005e:81244**
Bogacz, L. The Dirac operator coupled to 2D quantum gravity. (English summary) **2005k:83048**
Bruckmann, Falk (*with* Engelhardt, Michael) Writhe of center vortices and topological charge: an explicit example. (English summary) **2005b:81096**
Campos, Isabel *see* **Bär, Oliver**, **2005h:81340**
Carfora, Mauro Discretized gravity and the SU(2) Wess-Zumino-Witten model. (English summary) **2005b:83035**
Caselle, Michele (*with* Pepe, Michele; Rago, Antonio) Static quark potential and effective string corrections in the $(2+1)$-**d** SU(2) Yang-Mills theory. (English summary) **2005h:81214**
Cho, Yoshinori (*with* Kan, Nahomi; Shiraishi, Kiyoshi) Compactification in deconstructed gauge theory with topologically non-trivial link fields. (English summary) **2005f:81146**
Cirafici, M. *see* **Bazzocchi, F. et al.**, **2005e:81244**
D'Adda, Alessandro (*with* Kanamori, Issaku; Kawamoto, Noboru; Nagata, Kazuhiro) Twisted superspace on a lattice. (English summary) **2005m:81300**
Damgaard, P. H. *see* **Andersson, Toke et al.**, **2005h:81423**
Engelhardt, Michael *see* **Bruckmann, Falk**, **2005b:81096**
van Enter, Aernout C. D. (*with* Shlosman, Senya B.) Provable first-order transitions for nonlinear vector and gauge models with continuous symmetries. (English summary) **2005m:82047**
Esposito, Giampiero (*with* Pelliccia, Diego N.; Zaccaria, Francesco) Gribov problem for gauge theories: a pedagogical introduction. (English summary) **2005i:81094**
Espriu, Domènec (*with* Tagliacozzo, Luca) Compact lattice U(1) and Seiberg-Witten duality: a quantitative comparison. (English summary) **2005f:81241**
Guionnet, Alice First order asymptotics of matrix integrals; a rigorous approach towards the understanding of matrix models. (English summary) **2005c:82043**
Hagura, Hiroyuki Quantum geometry in dynamical Regge calculus. (English summary) **2005j:83025**
Hamber, Herbert W. (*with* Williams, Ruth M.) Nonperturbative gravity and the spin of the lattice graviton. (English summary) **2005k:83050**
Hill, Christopher T. (*with* Zachos, Cosmas K.) Dimensional deconstruction and Wess-Zumino-Witten terms. (English summary) **2005k:81171**
Kadoh, Daisuke (*with* Kikukawa, Yoshio; Nakayama, Yoichi) Solving the local cohomology problem in U(1) chiral gauge theories within a finite lattice. (English summary) **2005k:81293**
— (*with* Kikukawa, Yoshio) A numerical solution to the local cohomology problem in U(1) chiral gauge theories. (English summary) **2005k:81294**
Kan, Nahomi *see* **Cho, Yoshinori et al.**, **2005f:81146**
Kanamori, Issaku (*with* Kawamoto, Noboru) Dirac-Kähler fermion from Clifford product with noncommutative differential form on a lattice. (English summary) **2005f:81118**
— *see also* **D'Adda, Alessandro et al.**, **2005m:81300**
Katz, Andrey (*with* Shadmi, Yael) Gauge theories in AdS_5 and fine-lattice deconstruction. (English summary) **2005h:81231**
Kawamoto, Noboru *see* **Kanamori, Issaku**, **2005f:81118** *and* **D'Adda, Alessandro et al.**, **2005m:81300**
Kijowski, Jerzy (*with* Rudolph, Gerd; Śliwa, C.) Charge superselection sectors for scalar QED on the lattice. (English summary) **2005g:81354**
Kikukawa, Yoshio *see* **Kadoh, Daisuke et al.**, **2005k:81293** *and* **2005k:81294**
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Liang, Song *see* **Al'beverio, S.**, **2005h:81253**
Loll, R. (*with* Westra, W.) Space-time foam in 2D and the sum over topologies. (English summary) **2005j:83038**
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— (*with* Teper, Michael; Wenger, Urs) Properties of the deconfining phase transition in SU(N) gauge theories. (English summary) **2005m:81225**
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Sugihara, Takanori Density matrix renormalization group in a two-dimensional $\lambda\varphi^4$ Hamiltonian lattice model. (English summary)
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Ardonne, Eddy (*with* Fendley, Paul; Fradkin, Eduardo) Topological order and conformal quantum critical points. (English summary) **2005b:81124**
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Fradkin, Eduardo *see* **Ardonne, Eddy et al.**, **2005b:81124**
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Lucini, Biagio (*with* Teper, Michael; Wenger, Urs) Properties of the deconfining phase transition in SU(N) gauge theories. (English summary) **2005m:81225**
Martinovič, L'ubomír (*with* Luban, Marshall) Analytic solution of the microcausality problem in discretized light cone quantization. (English summary) **2005h:81254**
Meurice, Y. (*with* Oktay, M. B.) Universality in nontrivial continuum limits: a model calculation. (English summary) **2005e:81157**
Morris, Tim R. Renormalizable extra-dimensional models. (English summary) **2005m:81226**
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Items with secondary classifications in 81T27

Al'beverio, S. (*with* Kondrat'ev, Yu. G.; Kozak, Agnieszka; Kozitskiĭ, Yu. V.) A hierarchical model of quantum anharmonic oscillators: critical point convergence. (English summary) **2005k:82050**
— (*with* Liang, Song) A remark on different lattice approximations and continuum limits for φ_2^4-fields. (English summary) **2005i:81089**
— (*with* Gottschalk, Hanno; Yoshida, Minoru W.) Systems of classical particles in the grand canonical ensemble, scaling limits and quantum field theory. (English summary) **2005k:81157**
Arkani-Hamed, Nima (*with* Schwartz, Matthew D.) Discrete gravitational dimensions. (English summary) **2005f:83027**
Bazhanov, Vladimir V. (*with* Mangazeev, Vladimir V.) Eight-vertex model and non-stationary Lamé equation. (English summary) **2005j:82010**
Beisert, Niklas Higher-loop integrability in $\mathcal{N}=4$ gauge theory. (English and French summaries) **2005m:81296**
Benfatto, Giuseppe (*with* Mastropietro, Vieri) Rigorous analysis of the Tomonaga model by means of Ward identities and the renormalization group. (English summary) **2005m:82049**
Bietenholz, Wolfgang (*with* Hofheinz, Frank; Nishimura, Jun[1]) The non-commutative $\lambda\varphi^4$ model. (English summary) **2005b:81208**
Campanino, Massimo (*with* Ioffe, Dimitri; Velenik, Yvan) Random path representation and sharp correlations asymptotics at high-temperatures. (English summary) **2005h:82069**
D'Adda, Alessandro (*with* Provero, P.) Two-dimensional gauge theories of the symmetric group S_n in the large-n limit. (English summary) **2005b:81098**
Dorey, Patrick (*with* Fioravanti, Davide; Rim, Chaiho; Tateo, Roberto) Integrable quantum field theory with boundaries: the exact g-function. (English summary) **2005d:81177**
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Fujita, Takehisa (*with* Kobayashi, Takuya; Hiramoto, M.; Takahashi, Hidenori) Non-equivalence between Heisenberg XXZ spin chain and Thirring model. (English summary) **2005i:82020**
Georgiev, Lachezar S. A universal conformal field theory approach to the chiral persistent currents in the mesoscopic fractional quantum Hall states. (English summary) **2005j:81212**
Giedt, Joel (*with* Poppitz, Erich) Lattice supersymmetry, superfields and renormalization. (English summary) **2005g:81217**
de Gier, Jan (*with* Nienhuis, Bernard; Pearce, Paul A.; Rittenberg, Vladimir) The raise and peel model of a fluctuating interface. (English summary) **2005c:82067**
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Hernández, Rafael (*with* López, Esperanza) The SU(3) spin chain sigma model and string theory. (English summary) **2005b:81145**
— (*with* López, Esperanza) Spin chain sigma models with fermions. (English summary) **2005i:81162**
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Paston, S. A. (*with* Prokhvatilov, E. V.; Franke, V. A.) Gauge-invariant regularization of quantum field theory on a light front. (Russian. Russian summary) **2005f:81154**
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— (*with* Gadelha, A. L.; Nedel, Daniel L.) Closed string thermal torus from thermo field dynamics. (English summary) **2005j:81124**
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— (m, n) ZZ branes and the $c = 1$ matrix model. (English summary) **2005i:81115**
— (*with* Kostov, Ivan K.) Time-dependent backgrounds of 2D string theory: non-perturbative effects. (English summary) **2005k:81202**
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Ambjørn, Jan (*with* Janik, Romuald A.) Quantum rolling tachyon. (English summary) **2005f:81166**
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— (*with* Cardella, Matteo) Vanishing perturbative vacuum energy in non-supersymmetric orientifolds. (English summary) **2005f:81167**
Antoniadis, Ignatios String physics at low energies. (English summary)
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— (*with* D'Hoker, Eric; Phong, D. H.) On the construction of asymmetric orbifold models. (English summary) **2005f:81168**
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Arutyunov, Gleb E. (*with* Frolov, Sergei A.; Staudacher, Matthias) Bethe ansatz for quantum strings. (English summary) **2005i:81118**
— (*with* Frolov, Sergei A.) Integrable Hamiltonian for classical strings on $AdS_5 \times S^5$. (English summary) **2005k:81205**
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— (*with* Erdmenger, Johanna; Evans, Nick; Guralnik, Zachary; Kirsch, Ingo) Chiral symmetry breaking and pions in nonsupersymmetric gauge/gravity duals. (English summary) **2005f:81169**
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— (*with* Berglund, Per; Conlon, Joseph P.; Quevedo, Fernando) Systematics of moduli stabilisation in Calabi-Yau flux compactifications. (English summary)
Banerjee, Rabin (*with* Mukherjee, Pradip; Saha, Anirban) Interpolating action for strings and membranes: a study of symmetries in the constrained Hamiltonian approach. (English summary) **2005h:81257**
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— *see also* **Becker, Katrin et al., 2005h:81258**
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— (*with* Jeschek, Claus) Superpotentials from flux compactifications of M-theory. (English summary) **2005b:81129**
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— (*with* Maccaferri, Carlo; Scherer Santos, R. J.; Tolla, D. D.) Fundamental strings in SFT. (English summary)
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— (*with* Uranga, Angel M.) Branes on generalized calibrated submanifolds. (English summary) **2005m:81238**
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— (*with* Lee, Bum-Hoon; Yang, Hyun Seok) Supersymmetric D-branes in type-IIB plane wave background. (English summary) **2005a:81163**

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— (*with* Ho, Pei-Ming; Lee, Jen-Chi) Ward identities and high energy scattering amplitudes in string theory. (English summary) **2005h:81265**

— (*with* Lee, Jen-Chi) Stringy symmetries and their high-energy limits. (English summary)

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— (*with* Englert, François; Houart, Laurent; Taormina, Anne) Fermionic subspaces of the bosonic string. (English summary) **2005g:81231**

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— (*with* Wang, Xiao-Jun; Wu, Yong Shi[1]) Open spin chain and open spinning string. (English summary) **2005b:81135**

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— Spectra of heterotic strings on orbifolds. (English summary) **2005m:81239**

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— (*with* Kyritsis, Konstantinos) Local commutativity and causality in interacting PP-wave string field theory. (English summary) **2005g:81232**

— Symmetry and causality in pp-wave string field theory. (English summary) **2005m:81240**

Clark, Thomas E. (*with* Nitta, Muneto; ter Veldhuis, T.) Effective action for brane localized gauge fields. (English summary)

— (*with* Nitta, Muneto; ter Veldhuis, T.) Non-BPS brane dynamics and dual tensor gauge theory. (English summary) **2005i:81121**

— (*with* Nitta, Muneto; ter Veldhuis, T.) Superconformal symmetry, the supercurrent, and non-BPS brane dynamics. (English summary) **2005j:81134**

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— *see also* **Becker, Melanie et al., 2005b:81127**

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— *see also* **Cardoso, Gabriel Lopes et al., 2005h:81263**

Curtright, Thomas *see* **Brugues, Jan et al.**

Cvetič, Mirjam (*with* Papadimitriou, Ioannis N.; Shiu, Gary) Erratum to: "Supersymmetric three family SU(5) grand unified models from type IIA orientifolds with intersecting D6-branes" [Nuclear Phys. B **659** (2003), no. 1-2, 193–223; MR1981228 (2004f:81175)]. — (*with* Li, Tian-Jun; Liu, Tao) Supersymmetric Pati-Salam models from intersecting D6-branes: a road to the standard model. (English summary) **2005h:81268**

— (*with* Langacker, Paul; Li, Tian-Jun; Liu, Tao) D6-brane splitting on type IIA orientifolds. (English summary) **2005i:81122**

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— (*with* Wu, Yong Shi[1]) Quiver matrix mechanics for IIB string theory. II. Generic dual tori, fractional matrix membrane and SL(2, **Z**) duality. (English summary) **2005k:81221**

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— (*with* He, Yang Hui; Herzog, Christopher P.; Walcher, Johannes) Chaotic duality in string theory. (English summary) **2005h:81278**
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— Lectures on tachyon condensation: towards time-dependent backgrounds and holography. (English summary)
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— *see also* **Brugues, Jan et al.**
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— (*with* Tamassia, Laura) Vertex operators for closed superstrings. (English summary) **2005g:81240**
— (*with* van Nieuwenhuizen, Peter) Harmonic superspaces from superstrings. (English summary) **2005f:81179**
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Green, Michael B. A brief description of string theory. (*see* **2005j:83002**)
— *see also* **Gaberdiel, Matthias R., 2005c:81160**
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— (*with* Kraus, Per) D-brane dynamics in the $c = 1$ matrix model. (English summary) **2005d:81284**
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— The shape of nonabelian D-branes. (English summary) **2005b:81141**
— (*with* Terashima, Seiji) Brane decay and death of open strings. (English summary) **2005g:81242**
— (*with* Terashima, Seiji) Boundary string field theory as a field theory—mass spectrum and interaction. (English summary) **2005k:81235**
— (*with* Ho, Pei-Ming; Wang, John E.) Birth of closed strings and death of open strings during tachyon condensation. (English summary) **2005h:81285**
Hata, Hiroyuki Gauge structure of vacuum string field theory around the D-brane solution. (English summary)
— *see also* **Fujita, Masako, 2005h:81280**
Hatsuda, Machiko (*with* Kamimura, Kiyoshi) Wess-Zumino terms for AdS D-branes.

(English summary) **2005j:81142**

Hayakawa, Masashi (*with* Ishibashi, Nobuyuki) Perturbative dynamics of matrix string for the membrane. (English summary) **2005b:81142**

— *see also* **Hanada, Masanori et al., 2005f:81182**

He, Yang Hui Closed string tachyons, non-supersymmetric orbifolds and generalised McKay correspondence. (English summary) **2005b:81143**

— *see also* **Franco, Sebastián et al., 2005g:81237**; **2005h:81278** *and* **Feng, Bo[1] et al., 2005m:81248**

Headrick, Matthew (*with* Minwalla, Shiraz; Takayanagi, Tadashi) Closed string tachyon condensation: an overview. (English summary) **2005m:81255**

Hebecker, A. (*with* Trapletti, Michele) Gauge unification in highly anisotropic string compactifications. (English summary) **2005j:81143**

Hellerman, Simeon (*with* McGreevy, John; Williams, Brook) Geometric constructions of nongeometric string theories. (English summary) **2005j:81144**

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— (*with* Walcher, Johannes) Dibaryons from exceptional collections. (English summary) **2005b:81146**

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— *see also* **Franco, Sebastián et al., 2005h:81278** *and* **Gubser, Steven S. et al., 2005k:81233**

Higaki, Tetsutaro (*with* Kawamura, Yoshiharu; Kobayashi, Tatsuo; Nakano, Hiroaki) Anomalous U(1) D-term contribution in type I string models. (English summary) **2005c:81179**

Hikida, Yasuaki String theory on Lorentzian AdS_3 in minisuperspace. (English summary) **2005c:81165**

— (*with* Takayanagi, Tadashi) Solvable time-dependent model and rolling closed string tachyon. (English summary) **2005i:81131**

Hirano, Shinji *see* **Brace, Daniel et al., 2005g:81227**

Hlavatý, Ladislav (*with* Šnobl, Libor) Poisson-Lie T-plurality of three-dimensional conformally invariant sigma models. II. Nondiagonal metrics and dilaton puzzle. (English summary) **2005m:81257**

Ho, Pei-Ming Isometry of AdS_2 and the $c = 1$ matrix model. (English summary) **2005c:81166**

— *see also* **Chan, Chuan-Tsung et al., 2005h:81265** *and* **Hashimoto, Koji et al., 2005h:81285**

Hofman, Diego M. (*with* Núñez, Carmen A.) Free field realization of superstring theory on AdS_3. (English summary) **2005e:81180**

Honecker, Gabriele Chiral $N = 1$ 4D orientifolds with D-branes at angles. (English summary) **2005i:81132**

— (*with* Ott, Tassilo) Getting just the supersymmetric standard model at intersecting branes on the $\mathbb{Z}_6$ orientifold. (English summary) **2005j:81146**

— (*with* Ott, Tassilo) Erratum: "Getting just the supersymmetric standard model at intersecting branes on the $\mathbb{Z}_6$ orientifold" [Phys. Rev. D (3) **70** (2004), no. 12, 126010, 25 pp. (electronic); MR2124223 (2005j:81146)]. **2005m:81258**

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Ilderton, A. (*with* Mansfield, Paul) Time evolution in string field theory and T-duality. (English summary) **2005i:81133**

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Intriligator, Ken (*with* Kraus, Per; Ryzhov, Anton V.; Shigemori, Masaki; Vafa, Cumrun) On low rank classical groups in string theory, gauge theory and matrix models. (English summary) **2005a:81172**

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Johnson, Clifford V. Non-perturbative string equations for type 0A. (English summary) **2005a:81173**

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— *see also* **Carlisle, James E., 2005k:81217**

Jones, Gregory (*with* Maloney, Alexander; Strominger, Andrew) Nonsingular solution for S-branes. (English summary) **2005g:81243**

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— *see also* **Giryavets, Alexander et al., 2005e:81176**

Kalkkinen, J. (*with* Stelle, Kellogg S.) Large gauge transformations in M-theory. (English summary) **2005b:81147**

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— *see also* **Dasgupta, Keshav et al., 2005h:81270**

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— *see also* **Gomis, Jaume, 2005g:81239**

Karczmarek, Joanna L. (*with* Strominger, Andrew; Liu, Hong[2]; Maldacena, Juan M.) UV finite brane decay. (English summary) **2005a:81174**

— (*with* Strominger, Andrew) Matrix cosmology. (English summary) **2005k:81243**

— (*with* Strominger, Andrew) Closed string tachyon condensation at $c = 1$. (English summary) **2005c:81168**

— *see also* **Ernebjerg, Morten et al., 2005g:81236** *and* **Das, Sumit R., 2005m:81242**

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Katz, Sheldon H. (*with* Sharpe, Eric) D-branes, open string vertex operators, and Ext groups. (English summary) **2005f:81186**

— (*with* Pantev, Tony; Sharpe, Eric) D-branes, orbifolds, and Ext groups. (English summary) **2005f:81187**

— *see also* **Căldăraru, Andrei et al., 2005f:81188**

Kawai, Hikaru (*with* Kuroki, Tsunehide; Matsuo, Yoshinori) Universality of nonperturbative effect in type 0 string theory. (English summary) **2005k:81244**

— *see also* **Hanada, Masanori et al., 2005f:81182**

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Kazakov, Vladimir Aleksandrovich[1] (*with* Marshakov, Andrei; Minahan, Joseph A.; Zarembo, Konstantin) Classical/quantum integrability in AdS/CFT. (English summary) **2005g:81244**

— (*with* Zarembo, Konstantin) Classical/quantum integrability in non-compact sector of AdS/CFT. (English summary) **2005h:81294**

Kerstan, Sven F. *see* **Drummond, James M., 2005h:81272**

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Kim, Chanju (*with* Kim, Yoonbai; Kwon, O-Kab) Tubular D-branes in Salam-Sezgin model. (English summary) **2005c:81169**

Kim, Hongsu Quantum description for the decay of NSNS brane-antibrane systems. (English summary) **2005i:81134**

Kim, Jihn E. *see* **Choi, Kang-Sin et al., 2005a:81165**

Kim, Nakwoo Multispin strings on $AdS_5 \times T^{1,1}$ and operators of $\mathcal{N} = 1$ superconformal theory. (English summary) **2005f:81190**

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Kishimoto, Isao (*with* Matsuo, Yutaka; Watanabe, Eitoku) Boundary states as exact solutions of (vacuum) closed string field theory. (English summary) **2005c:81170**
— (*with* Matsuo, Yutaka) Cardy states as idempotents of fusion ring in string field theory. (English summary) **2005b:81148**
— (*with* Matsuo, Yutaka; Watanabe, Eitoku) A universal nonlinear relation among boundary states in closed string field theory. (English summary) **2005d:81288**
— (*with* Matsuo, Yutaka) Cardy states, factorization and idempotency in closed string field theory. (English summary) **2005m:81261**
Kitazawa, Noriaki Dynamical generation of Yukawa interactions in intersecting D-brane models. (English summary) **2005h:81295**
— Supersymmetric composite models on intersecting D-branes. (English summary) **2005e:81182**
— (*with* Kobayashi, Tatsuo; Maru, Nobuhito; Okada, Nobuchika) Yukawa coupling structure in intersecting D-brane models. (English summary) **2005m:81262**
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— (*with* Maldacena, Juan M.) Superconformal gauge theories and noncritical superstrings. (English summary) **2005m:81263**
— *see also* **Dine, Michael et al., 2005e:81172** *and* **Gubser, Steven S. et al., 2005k:81233**
Klemm, Albrecht *see* **Chiantese, Stefano et al., 2005c:81155**
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— (*with* Raby, Stuart; Zhang, Ren-Jie) Searching for realistic 4d string models with a Pati-Salam symmetry. Orbifold grand unified theories from heterotic string compactification on a $\mathbb{Z}_6$ orbifold. (English summary) **2005i:81136**
— *see also* **Higaki, Tetsutaro et al., 2005e:81179** *and* **Kitazawa, Noriaki et al., 2005m:81262**
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— *see also* **Felder, Gary, 2005h:81277**
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— *see also* **Berg, Marcus et al., 2005b:81130** *and* **2005c:81150**
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Kristjansen, Charlotte Quantum mechanics, random matrices and BMN gauge theory. (English summary) **2005c:81171**
— Three-spin strings on $AdS_5 \times S^5$ from $\mathcal{N} = 4$ SYM. (English summary) **2005a:81178**
— (*with* Månsson, T.) The circular, elliptic three-spin string from the SU(3) spin chain. (English summary) **2005d:81292**
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Kuperstein, Stanislav (*with* Sonnenschein, Jacob) Analytic non-supersymmetric background dual of a confining gauge theory and the corresponding plane wave theory of hadrons. (English summary) **2005d:81293**
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— *see also* **Aharony, Ofer et al., 2005d:81268** *and* **2005h:81255**
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Landsteiner, Karl (*with* Lazaroiu, Calin Iuliu; Tatar, Radu) (Anti)symmetric matter and superpotentials from IIB orientifolds. (English summary) **2005e:81183**
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— *see also* **Landsteiner, Karl et al., 2005e:81183**
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Lebedev, Oleg Valerievich *see* **Buchmüller, Wilfried et al., 2005m:81236**
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Lechner, Kurt Intersecting M2- and M5-branes. (English summary) **2005b:81151**
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Lee, Sangmin (*with* Russo, Rodolfo) Holographic cubic vertex in the pp-wave. (English summary) **2005h:81300**
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— (*with* Sin, Sang-Jin) Closed string tachyon potential and tt^* equation. (English summary) **2005k:81246**
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Li, Tian-Jun *see* **Cvetič, Mirjam et al., 2005h:81268** *and* **2005i:81122**
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Liu, Hong[2] *see* **Karczmarek, Joanna L. et al., 2005a:81174**
Liu, James T. (*with* Wen, Wen Yu; Sabra, Wafic A.) Consistent reductions of IIB* /M* theory and de Sitter supergravity. (English summary) **2005b:81152**
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Lü, Hong[1] (*with* Vázquez-Poritz, Justin F.) Non-singular twisted S-branes from rotating branes. (English summary) **2005e:81186**
— (*with* Pope, Christopher N.; Stelle, Kellogg S.) Higher-order corrections to non-compact Calabi-Yau manifolds in string theory. (English summary) **2005e:81187**
— (*with* Pope, Christopher N.; Stelle, Kellogg S.; Townsend, Paul Kingsley) Supersymmetric deformations of G_2 manifolds from higher-order corrections to string and M-theory. (English summary) **2005j:81153**
Lu, Jian Xin[1] (*with* Roy, Shibaji) Delocalized, non-SUSY p-branes, tachyon condensation and tachyon matter. (English summary) **2005h:81301**
Lucietti, James A note on the uniqueness of the Neumann matrices in the plane-wave background. (English summary) **2005d:81295**
— (*with* Schäfer-Nameki, Sakura; Sinha, Aninda) On the exact open-closed vertex in plane-wave light-cone string field theory. (English summary) **2005g:81249**
— (*with* Schäfer-Nameki, Sakura; Sinha, Aninda) On the plane-wave cubic vertex. (English summary) **2005h:81302**
Lugo, Adrián R. About the stability of a D4-$\overline{\text{D4}}$ system. (English summary) **2005k:81248**
Lukas, André (*with* Morris, Stephen) Moduli Kähler potential for M theory on a G_2 manifold. (English summary) **2005f:81194**
— (*with* Saffin, P. M.) M-theory compactification, fluxes, and AdS_4. (English summary) **2005k:81249**
— *see also* **Gray, James A. et al., 2005e:81177**; **Barrett, Adam B., 2005k:81207** *and* **House, Thomas, 2005k:81238**
Lunin, Oleg Adding momentum to D1-D5 system. (English summary) **2005k:81250**
— (*with* Mathur, Samir D.; Park, Inyong Y.; Saxena, Ashish) Tachyon condensation and 'bounce' in the D1-D5 system. (English summary) **2005e:81188**
Lüscher, Martin (*with* Weisz, Peter) String excitation energies in SU(N) gauge theories beyond the free-string approximation. (English summary) **2005f:81195**
Lüst, Dieter Intersecting brane worlds and their effective interactions. (English summary) **2005j:81154**

— (*with* Reffert, S.; Stieberger, S.) Flux-induced soft supersymmetry breaking in chiral type IIB orientifolds with D3/D7-branes. (English summary) **2005k:81251**
— *see also* **Blumenhagen, Ralph et al., 2005a:81159**; **Cardoso, Gabriel Lopes et al., 2005h:81263** *and* **Epple, Friedel T. J., 2005i:81125**
Maccaferri, Carlo *see* **Bonora, Loriano et al., 2005f:81172** *and* **2005m:81234**
Machado, Fabiano R. (*with* Medina, Ricardo) The open superstring and the non-abelian Born-Infeld theory. (English summary) **2005g:81250**
Magueijo, João (*with* Smolin, Lee) String theories with deformed energy-momentum relations, and a possible nontachyonic bosonic string. (English summary) **2005j:81155**
Maharana, Jnanadeva *see* **Das, Ashok et al., 2005k:81222**
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Maloney, Alexander *see* **Jones, Gregory et al., 2005g:81243** *and* **Kofman, Lev et al., 2005g:81247**
Malyuta, Yu. M. (*with* Obikhod, T. V.) D-branes and derived categories. (Russian. English summary) **2005g:81251**
Mandal, Gautam (*with* Wadia, Spenta R.) Rolling tachyon solution of two-dimensional string theory. (English summary) **2005c:81173**
Mandelbaum, Yaakov *see* **Burshtyn, Dmitri et al., 2005k:81216**
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Marchesano, Fernando (*with* Shiu, Gary) Building MSSM flux vacua. (English summary) **2005k:81252**
Marolf, Donald (*with* Martucci, Luca; Silva, Pedro J.) The explicit form of the effective action for F1 and D-branes in 10D bosonic backgrounds. (English summary) **2005b:81153**
— *see also* **Cabrera Palmer, Belkis et al., 2005f:81174**
Marotta, Raffaele *see* **Liccardo, Antonella et al., 2005c:81172** *and* **Di Vecchia, Paolo et al., 2005g:81233**
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Maru, Nobuhito *see* **Kitazawa, Noriaki et al., 2005m:81262**
Mathai, Varghese (*with* Murray, Michael K.; Stevenson, Daniel) Type-I D-branes in an H-flux and twisted KO-theory. (English summary) **2005d:81296**
— *see also* **Bouwknegt, Peter et al., 2005m:81235**
Mathur, Samir D. *see* **Lunin, Oleg et al., 2005e:81188**
Matlock, P. (*with* Viswanathan, Kadayam Sankaran) Four-impurity operators and string field theory vertex in the Berenstein-Maldacena-Nastase correspondence. (English summary) **2005j:81156**
Matsuo, Toshihiro (*with* Matsuura, So) String theoretical interpretation for finite N Yang-Mills theory in two dimensions. (English summary) **2005h:81303**
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McAllister, Liam (*with* Mitra, Indrajit[2]) Relativistic D-brane scattering is extremely inelastic. (English summary) **2005k:81254**
— *see also* **Kofman, Lev et al., 2005g:81247**
McGreevy, John (*with* Verlinde, Herman) Strings from tachyons: the $c = 1$ matrix reloaded. (English summary) **2005d:81297**
— (*with* Murthy, Sameer; Verlinde, Herman) Two-dimensional superstrings and the supersymmetric matrix model. (English summary) **2005e:81189**
— *see also* **Lawrence, Albion, 2005g:81248** *and* **Hellerman, Simeon et al., 2005j:81144**
McKernan, James *see* **Herzog, Christopher P., 2005d:81286**
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— *see also* **Callan, Curtis G., Jr. et al., 2005e:81167**
Medina, Ricardo *see* **Machado, Fabiano R., 2005g:81250**
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Melikyan, Arsen *see* **Das, Ashok et al., 2005k:81222**
de Mello Koch, Robert (*with* Jevicki, Antal; Rodrigues, João P.) Collective string field theory of matrix models in the BMN limit. (English summary) **2005f:81197**
— *see also* **Cook, Paul L. H. et al., 2005a:81167**
Menezes, Roberto *see* **Bazeia, Dionisio et al.**
Merrell, Willie *see* **Becker, Melanie et al., 2005b:81127**
Meusburger, Catherine (*with* Rehren, Karl-Henning) Algebraic quantization of the closed bosonic string. (English summary) **2005a:81180**
Mezincescu, Luca *see* **Brugues, Jan et al.**
Miao, Yan-Gang (*with* Müller-Kirsten, Harald J. W.; Park, DaeKil) A note on tachyons in the $D3 + \overline{D3}$ system. (English summary)
— (*with* Ohta, Nobuyoshi) Complete intersecting non-extreme p-branes. (English summary)
— Hamiltonian analyses of new set of dual actions of bosonic p-branes. (English summary) **2005k:81255**
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Minces, Pablo On the role of boundary terms in the AdS/CFT correspondence. (English summary) **2005g:81253**
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— *see also* **Headrick, Matthew et al., 2005m:81255**
Mironov, A. D. Integrability in string/field theories and Hamiltonian flows in the space of physical systems. (Russian. Russian summary) **2005a:81181**
— *see also* **Alexandrov, Alexander Sergeevich et al., 2005m:81228**
Misra, Aalok On (orientifold of) type IIA on a compact Calabi-Yau. (English summary) **2005i:81139**
— Type IIA on a compact Calabi-Yau and $D = 11$ supergravity uplift of its orientifold. (English summary) **2005f:81198**
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— *see also* **Diaconescu, Duiliu-Emanuel et al., 2005b:81138**
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Miyake, Akiko Supersymmetric matrix model on Z-orbifold. (English summary) **2005a:81182**
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— *see also* **McGreevy, John et al., 2005e:81189**
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Myers, Robert C. Low energy D-brane actions. (English summary) **2005j:81159**
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— Recoiling D-branes. (English summary) **2005h:81306**
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Nakayama, Yu (*with* Sugawara, Yuji; Takayanagi, Hiromitsu) Boundary states for the rolling D-branes in NS5 background. (English summary) **2005h:81307**
— (*with* Panigrahi, Kamal L.; Rey, Soo-Jong; Takayanagi, Hiromitsu) Rolling down the throat in NS5-brane background: the case of electrified D-brane. (English summary) **2005k:81256**
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Oda, Satsuki (*with* Yukawa, Tetsuyuki) Introducing dynamical triangulations to the type IIB superstrings. (English summary) **2005h:81309**
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Ohmori, Kazuki Toward an open-closed string theoretical description of a rolling tachyon. (English summary) **2005c:81175**
Ohta, Nobuyoshi (*with* Sakaguchi, Makoto) Uniqueness of M-theory pp-wave background with extra supersymmetries. (English summary) **2005g:81255**
— *see also* **Bak, Dongsu et al., 2005b:81126** *and* **Miao, Yan-Gang**
Okada, Nobuchika *see* **Kitazawa, Noriaki et al., 2005m:81262**
Okawa, Yuji Some exact computations on the twisted butterfly state in string field theory. (English summary) **2005f:81199**
— (*with* Zwiebach, Barton) Twisted tachyon condensation in closed string field theory. (English summary) **2005e:81191**
— (*with* Zwiebach, Barton) Heterotic string field theory. (English summary) **2005e:81192**
— Solving Witten's string field theory using the butterfly state. (English summary) **2005f:81200**
— *see also* **Berkovits, Nathan et al., 2005k:81211**
Okuda, Takuya (*with* Ooguri, Hirosi) D-branes and phases on string worldsheet. (English summary) **2005k:81257**

Okuyama, Kazumi *see* **Kutasov, David et al., 2005h:81299** *and* **Martinec, Emil, 2005k:81253**
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Ooguri, Hirosi Gauge theory and string theory; an introduction to the AdS/CFT correspondence. **2005h:81310**
— *see also* **Okuda, Takuya, 2005k:81257**
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— *see also* **Honecker, Gabriele, 2005j:81146** *and* **2005m:81258**
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Pando Zayas, Leopoldo A. (*with* Sonnenschein, Jacob; Vaman, Diana) Regge trajectories revisited in the gauge/string correspondence. (English summary) **2005g:81258**
— *see also* **Bertoldi, Gaetano et al., 2005k:81213**
Panero, Marco *see* **Caselle, Michele et al., 2005d:81276**
Panigrahi, Kamal L. D-brane dynamics in Dp brane background. (English summary) **2005f:81201**
— *see also* **Nakayama, Yu et al., 2005k:81256**
Pankiewicz, Ari Strings in plane wave backgrounds. (English summary) **2005b:81157**
— *see also* **Gutjahr, Petra, 2005m:81254**
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Park, Cheonsoo *see* **Cho, Jin-Ho et al., 2005a:81164**
Park, DaeKil *see* **Miao, Yan-Gang et al.**
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Peeters, Kasper (*with* Westerberg, Anders) The Ramond-Ramond sector of string theory beyond leading order. (English summary) **2005a:81184**
— (*with* Zamaklar, Marija) AdS/CFT description of D-particle decay. (English summary) **2005k:81258**
— *see also* **Zamaklar, Marija, 2005k:81276**
Perry, Malcolm J. *see* **Turok, Neil et al., 2005k:81272**
Petrini, Michela (*with* Russo, Rodolfo; Tanzini, Alessandro) The AdS/CFT correspondence in the PP-wave limit. (English summary) **2005c:81177**
— *see also* **Chu, Chong-Sun et al., 2005a:81166** *and* **Graña, Mariana et al., 2005m:81253**
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Phong, D. H. *see* **Aoki, Kenichiro et al., 2005f:81168** *and* **2005g:81221**
Pilo, Luigi (*with* Riotto, Antonio; Zaffaroni, Alberto[1]) Old inflation in string theory. (English summary) **2005e:81193**
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Pioline, Boris (*with* Waldron, Andrew) The automorphic membrane. (English summary) **2005j:81160**
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Pohlmeyer, K. (*with* Trunk, M.) The invariant charges of the Nambu-Goto string theory: quantization of non-additive composition laws. (English summary) **2005d:81300**
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Polchinski, Joseph M theory and black hole quantum mechanics. (*see* **2005j:83002**)
Policastro, G. *see* **Grassi, Pietro Antonio et al., 2005c:81163**
Polyakov, A. M. Conformal fixed points of unidentified gauge theories. (English summary) **2005d:81301**
Polyakov, Dimitri GL(1) charged states in twistor string theory. (English summary) **2005i:81141**
Pons, Josep M. (*with* Russo, Jorge G.; Talavera, Pere) Semiclassical string spectrum in a string model dual to large N QCD. (English summary) **2005f:81202**
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Raeymaekers, Joris *see* **Dabholkar, Atish et al., 2005d:81279**
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Roggenkamp, Daniel *see* **Gaberdiel, Matthias R. et al., 2005m:81250**
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Russo, Jorge G. Spinning strings in $AdS_5 \times S^5$ and integrable systems. (English summary) **2005b:81158**
— Effects of D-instantons in string amplitudes. (English summary) **2005m:81264**
— *see also* **Pons, Josep M. et al., 2005f:81202**; **Brugues, Jan et al., 2005j:81130** *and* **Chialva, Diego et al., 2005k:81219**
Russo, Rodolfo (*with* Sciuto, Stefano) Twisted determinants and bosonic open strings in an electromagnetic field. (English summary) **2005f:81204**
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Sahakian, Vatche Closed strings in Ramond-Ramond backgrounds. (English summary) **2005e:81194**
— On the polarization of closed strings by Ramond-Ramond fluxes. (English summary) **2005h:81312**
Sahakyan, David A. Comments on D-brane dynamics near NS5-branes. (English summary) **2005h:81313**
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Saito, Satoru *see* **Sato, Ryuichi, 2005h:81315**
Sakaguchi, Makoto (*with* Yoshida, Kentaroh) Dirichlet branes of the covariant open supermembrane on a pp-wave background. (English summary) **2005c:81178**
— (*with* Yoshida, Kentaroh) Dirichlet branes of the covariant open supermembrane in $AdS_4 \times S^7$ and $AdS_7 \times S^4$. (English summary) **2005a:81186**
— (*with* Yoshida, Kentaroh) Notes on D-branes of type IIB string on $AdS_5 \times S^5$. (English summary) **2005b:81159**
— *see also* **Ohta, Nobuyoshi, 2005g:81255**
Sakai, Kazuhiro[2] *see* **Eguchi, Tohru, 2005g:81234**
Saltman, Alex (*with* Silverstein, Eva) The scaling of the no-scale potential and de-Sitter model building. (English summary) **2005i:81143**
Santillan, Osvaldo P. *see* **Ketov, Sergei V. et al., 2005f:81189**
Sarkar, Swarnendu (*with* Sathiapalan, B.) Closed string tachyons on $\mathbf{C}/Z_N$. (English summary) **2005h:81314**
Sarkar, Tapobrata On localized tachyon condensation in $\mathbb{C}^2/\mathbb{Z}_n$ and $\mathbb{C}^3/\mathbb{Z}_n$. (English summary) **2005g:81260**
Sathiapalan, B. Loop variables and gauge invariance in closed bosonic string theory. (English summary) **2005k:81259**
— Loop variables and the (free) open string in a curved background. (English summary) **2005k:81260**
— *see also* **Sarkar, Swarnendu, 2005h:81314**
Sato, Akira (*with* Tsuchiya, Asato) ZZ brane amplitudes from matrix models. (English summary) **2005k:81261**
Sato, Matsuo (*with* Tsuchiya, Asato) A note on Hamilton-Jacobi formalism and D-brane effective actions. (English summary) **2005a:81187**
— *see also* **Das, Ashok et al., 2005k:81222**
Sato, Ryuichi (*with* Saito, Satoru) D-brane correlators as solutions of Hirota-Miwa equation. (English summary) **2005h:81315**
Savvidy, G. K. Gauge fields–strings duality and tensionless superstrings. (English summary) **2005b:81160**
— Tensionless strings: physical Fock space and higher spin fields. (English summary) **2005d:81302**
— Tensionless strings, correspondence with SO(D, D) sigma-model. (English summary) **2005k:81262**
Savvidy, Konstantin *see* **Cheung, Yeuk-Kwan E. et al., 2005e:81168**
Saxena, Ashish *see* **Lunin, Oleg et al., 2005e:81188**
Sazdović, B. CT-duality as a local property of the worldsheet. (English summary) **2005k:81263**
Schäfer-Nameki, Sakura *see* **Lucietti, James et al., 2005g:81249** *and* **2005h:81302**
Schalm, Koenraad Eduard *see* **Huiszoon, Lennaert Rene, 2005h:81289**; **de Boer, Jan et al., 2005m:81232** *and* **2005m:81233**
Schellekens, A. N. *see* **Dijkstra, T. P. T. et al., 2005i:81123**
Scherer Santos, R. J. *see* **Bonora, Loriano et al.**
Schiappa, Ricardo *see* **Bordalo, Pedro et al., 2005k:81214**
Schnitzer, Howard J. *see* **Gómez-Reino, Marta et al., 2005j:81140**
Schomerus, Volker Rolling tachyons from Liouville theory. (English summary) **2005b:81161**

Schreiber, Urs DDF and Pohlmeyer invariants of (super)string. (English summary) 2005h:81316
Schuller, Frederic P. (*with* Pfeiffer, Hendryk) Invariant length scale in relativistic kinematics: lessons from Dirichlet branes. (English summary) 2005a:81188
Schulz, Michael Brian Superstring orientifolds with torsion: O5 orientifolds of torus fibrations and their massless spectra. (English summary) 2005m:81265
— *see also* Kachru, Shamit et al., 2005e:81181
Schvellinger, Martin Glueballs, symmetry breaking and axionic strings in non-supersymmetric deformations of the Klebanov-Strassler background. (English summary) 2005g:81261
Sciuto, Stefano *see* Russo, Rodolfo, 2005f:81204
Seiberg, Nathan (*with* Shih, David) Branes, rings and matrix models in minimal (super)string theory. (English summary) 2005b:81162
— (*with* Shih, David) Minimal string theory. (English and French summaries) 2005m:81266
— *see also* Kutasov, David et al., 2005h:81299 *and* Klebanov, Igor R. et al., 2005k:81245
Sen, Ashoke D-branes as solitons. (English summary) 2005c:81179
— Open and closed strings from unstable D-branes. (English summary) 2005b:81163
— Open-closed string duality at tree level. (English summary) 2005a:81189
— Tachyon dynamics in string theory. (English summary)
— Moduli space of unstable D-branes on a circle of critical radius. (English summary) 2005e:81195
— Rolling tachyon boundary state, conserved charges and two dimensional string theory. (English summary) 2005e:81196
— Energy momentum tensor and marginal deformations in open string field theory. (English summary) 2005h:81317
— Open-closed duality: lessons from matrix model. (English summary) 2005c:81180
Serone, Marco (*with* Trapletti, Michele) String vacua with flux from freely-acting orbifolds. (English summary) 2005b:81164
Seto, Osamu *see* Kobayashi, Tatsuo, 2005d:81290
Sezgin, E. *see* Arapoglu, Savas et al., 2005g:81222
Sharov, G. S. Perturbed states of a rotating relativistic string. (Russian. Russian summary) 2005e:81197
Sharpe, Eric Discrete torsion. (English summary) 2005h:81318
— Analogues of discrete torsion for the M-theory three-form. (English summary) 2005j:81161
— *see also* Katz, Sheldon H. et al., 2005f:81186; 2005f:81187; Căldăraru, Andrei et al., 2005f:81188 *and* Becker, Katrin et al., 2005h:81258
Shepard, Peter G. *see* Hořava, Petr, 2005m:81259
Shigemori, Masaki *see* Intriligator, Ken et al., 2005a:81172
Shih, David *see* Seiberg, Nathan, 2005b:81162; 2005m:81266 *and* Kutasov, David et al., 2005h:81299
Shin, Hyeonjoon (*with* Yoshida, Kentaroh) Thermodynamics of fuzzy spheres in pp-wave matrix model. (English summary) 2005e:81198
— (*with* Yoshida, Kentaroh) Membrane fuzzy sphere dynamics in plane-wave matrix model. (English summary) 2005i:81144
Shin, Jonghyeon *see* Cho, Jin-Ho et al., 2005a:81164
Shiu, Gary (*with* Wang, Lian-Tao) D matter. (English summary) 2005d:81303
— *see also* Marchesano, Fernando, 2005k:81252 *and* Cvetič, Mirjam et al.
Shmakova, Marina *see* Dasgupta, Keshav, 2005c:81157
Shock, Jonathan P. *see* Evans, Nick, 2005h:81276
Silva, Pedro J. *see* Marolf, Donald et al., 2005b:81153 *and* Cabrera Palmer, Belkis et al.
Silverstein, Eva (*with* Tong, David) Scalar speed limits and cosmology: acceleration from D-cceleration. (English summary) 2005k:81264
— *see also* Kofman, Lev et al., 2005g:81247 *and* Saltman, Alex, 2005i:81143
Sin, Sang-Jin Comments on the fate of unstable orbifolds. (English summary) 2005h:81319
— *see also* Lee, Sunggeun, 2005f:81193 *and* 2005k:81246
Singh, Harvendra Generalised Penrose limits and pp-waves. (English summary) 2005e:81199
Sinha, Aninda *see* Lucietti, James et al., 2005g:81249 *and* 2005h:81302
Sinkovics, Annamaria *see* de Boer, Jan et al., 2005c:81152
Siopsis, George On quasi-normal modes and the AdS_5/CFT_4 correspondence. (English summary) 2005k:81265
Skenderis, Kostas (*with* Taylor, Marika) Open strings in the plane wave background. II. Superalgebras and spectra. (English summary) 2005a:81190
Smedbäck, Mikael Pulsating strings on $AdS_5 \times S^5$. (English summary) 2005e:81200
Smet, Geert (*with* Van den Bergh, Joris) O3/O7 orientifold truncations and very special quaternionic-Kähler geometry. (English summary) 2005k:81266
Smith, Douglas J. Calibrations for giant gravitons. (English summary) 2005m:81267
— *see also* Hackett-Jones, Emily J. et al., 2005g:81241
Smolin, Lee *see* Magueijo, João, 2005j:81155
Šnobl, Libor *see* Hlavatý, Ladislav, 2005m:81257
Sollie, Roger *see* Brevik, Iver et al., 2005a:81160
Sonnenschein, Jacob *see* Kuperstein, Stanislav, 2005d:81293 *and* Pando Zayas, Leopoldo A. et al., 2005g:81258
Spallucci, Euro *see* Guendelman, E. I., 2005f:81180
Spence, B. *see* Ramgoolam, Sanjaye et al., 2005f:81203
Spradlin, Marcus *see* DeWolfe, Oliver et al., 2005e:81171 *and* Roiban, Radu et al., 2005g:81259
Staudacher, Matthias *see* Beisert, Niklas et al., 2005g:81224 *and* Arutyunov, Gleb E. et al., 2005i:81118
Stefański, Bogdan, Jr. Orientifolds, discrete torsion and twisted equivariant K-theory. (English summary) 2005c:81181
— Plane-wave lightcone superstring field theory. (English summary) 2005d:81304
— Open spinning strings. (English summary) 2005a:81191
Steinhardt, Paul J. *see* Turok, Neil et al., 2005k:81272
Stelle, Kellogg S. Special-holonomy manifolds and quartic-curvature string corrections. (English summary) 2005d:81305
— *see also* Kalkkinen, J., 2005b:81147; Lü, Hong[1] et al., 2005e:81187 *and* 2005j:81153
Stevenson, Daniel *see* Mathai, Varghese et al., 2005d:81296
Stieberger, S. *see* Lüst, Dieter et al., 2005k:81251
Strominger, Andrew (*with* Takayanagi, Tadashi) Correlators in timelike bulk Liouville theory. (English summary) 2005c:81182
— A matrix model for AdS_2. (English summary) 2005e:81201
— *see also* Karczmarek, Joanna L. et al., 2005a:81174; 2005c:81168; 2005k:81243 *and* Jones, Gregory et al., 2005g:81243
Sugawara, Yuji *see* Nakayama, Yu et al., 2005h:81307
Sugimoto, Shigeki Exact description of D-branes in K-matrix theory. (English summary) 2005j:81162
— (*with* Takahashi, Kazuyoshi[2]) QED and string theory. (English summary) 2005c:81183
Sun, Bo[2] *see* Chen, Bin[5] et al., 2005j:81133
Sundell, P. *see* Arapoglu, Savas et al., 2005g:81222
Suruliz, Kerim *see* Blumenhagen, Ralph et al., 2005h:81260
Susskind, Leonard *see* Goheer, Naureen et al., 2005h:81282 *and* Freivogel, B., 2005i:81128
Suzuki, Toshiya PST-type $SL(2;\mathbf{R})$-covariant super-D3-brane action in flat spacetime. (English summary) 2005b:81165
Swanson, Ian *see* Callan, Curtis G., Jr. et al., 2005e:81167 *and* McLoughlin, Tristan, 2005f:81196
Tada, Tsukasa *see* Hanada, Masanori et al., 2005f:81182
Takahashi, Kazuyoshi[2] *see* Sugimoto, Shigeki, 2005c:81183
Takahashi, Tomohiko *see* Katsumata, Fumie et al., 2005h:81293
Takayama, Yastoshi *see* Imai, Takaaki, 2005a:81171
Takayanagi, Hiromitsu *see* Nakayama, Yu et al., 2005h:81307 *and* 2005k:81256
Takayanagi, Tadashi Notes on D-branes in 2D type 0 string theory. (English summary) 2005f:81205
— Comments on 2D type-IIA string and matrix model. (English summary) 2005k:81267
— *see also* Minwalla, Shiraz, 2005b:81154; Strominger, Andrew, 2005c:81182; Gukov, Sergei et al., 2005h:81284; Hikida, Yasuaki, 2005i:81131 *and* Headrick, Matthew et al., 2005m:81255
Talavera, Pere *see* Pons, Josep M. et al., 2005f:81202
Tamassia, Laura *see* Grassi, Pietro Antonio, 2005g:81240
Tanzini, Alessandro *see* Chu, Chong-Sun et al., 2005a:81166 *and* Petrini, Michela et al., 2005c:81177
Taormina, Anne *see* Chattaraputi, Auttakit et al., 2005b:81134; 2005g:81231 *and* Englert, François et al., 2005b:81139
Tatar, Radu *see* Landsteiner, Karl et al., 2005e:81183
Taylor, Marika *see* Skenderis, Kostas, 2005a:81190
Taylor, Tomasz R. *see* Blumenhagen, Ralph et al., 2005a:81159 *and* Antoniadis, Ignatios 2005c:81148
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Terachi, Hidenori *see* Iso, Satoshi et al., 2005j:81148
Terashima, Seiji *see* Hashimoto, Koji, 2005g:81242 *and* 2005k:81235
Teschner, Jörg Exact treatment of D0 brane decay in two-dimensional string theory. (English summary) 2005m:81268
Thambyahpillai, Shiyamala A closer look at two AdS_4 branes in an AdS_5 bulk. (English summary) 2005k:81268
Theis, Ulrich *see* Davidse, Marijn et al., 2005h:81271 *and* 2005k:81223
Theisen, Stefan *see* Arnlind, Joakim et al., 2005d:81270
Thomas, Steven (*with* Ward, John) D-brane dynamics and NS5 rings. (English summary) 2005k:81269
— *see also* Ramgoolam, Sanjaye et al., 2005f:81203
Thompson, David Mattoon AdS solutions to the 2D type 0A effective action. (English summary) 2005j:81163
Tierz, Miguel Soft matrix models and Chern-Simons partition functions. (English summary) 2005k:81270
Tirziu, Alin (*with* Fendley, Paul) Strings on type-IIB pp-wave backgrounds with interacting massive theories on the worldsheet. (English summary) 2005a:81192
Tolla, D. D. *see* Bonora, Loriano et al.
Tollstén, Anna *see* Bundzik, Daniel, 2005e:81166
Tomasiello, Alessandro *see* Fidanza, Stéphane et al., 2005e:81174 *and* Graña, Mariana et al., 2005m:81253
Tong, David *see* Silverstein, Eva, 2005k:81264
Toppan, Francesco Hermitean versus holomorphic complex and quaternionic generalized supersymmetries of the M-theory. A classification. (English summary) 2005g:81262
Toumbas, Nicolaos Open/closed string duality in two dimensions. (English summary) 2005i:81145
— (*with* Troost, Jan) A time-dependent brane in a cosmological background. (English summary) 2005i:81146
— *see also* Gukov, Sergei et al., 2005h:81284
Townsend, Paul Kingsley The story of M. (*see* 2005j:83002)
— Field theory supertubes. (English and French summaries) 2005k:81271
— *see also* Lü, Hong[1] et al., 2005j:81153 *and* Gomis, Joaquim et al., 2005k:81229
Trapletti, Michele On the unfolding of the fundamental region in integrals of modular invariant amplitudes. (English summary) 2005a:81193
— *see also* Serone, Marco, 2005b:81164 *and* Hebecker, A., 2005j:81143
Trigiante, Mario *see* Angelantonj, Carlo et al., 2005d:81269 *and* D'Auria, Riccardo et al., 2005j:81136
Tripathy, Prasanta K. *see* Giryavets, Alexander et al., 2005e:81176
Trivedi, Sandip P. *see* Giryavets, Alexander et al., 2005e:81176 *and* Kachru, Shamit et al., 2005e:81181
Tronconi, Alessandro *see* Alberghi, Gian Luigi et al., 2005c:81146
Troost, Jan *see* Toumbas, Nicolaos, 2005i:81146
Trunk, M. *see* Pohlmeyer, K., 2005d:81300
Tseytlin, A. A. *see* Kruczenski, Martin et al., 2005f:81192 *and* Beisert, Niklas et al., 2005g:81224
Tsuchiya, Asato *see* Sato, Matsuo, 2005a:81187 *and* Sato, Akira, 2005k:81261
Tsukioka, Takuya (*with* Watabiki, Yoshiyuki) Quantization of bosonic string model in $(26+2)$-dimensional space-time. (English summary) 2005j:81164

Turok, Neil (*with* Perry, Malcolm J.; Steinhardt, Paul J.) M theory model of a big crunch/big bang transition. (English summary) **2005k:81272**
Tye, S.-H. Henry *see* **Leblond, Louis**, **2005a:81179**
Uehara, Shozo (*with* Yamada, Satoshi) Wrapped membranes, matrix string theory and an infinite dimensional Lie algebra. (English summary) **2005e:81202**
Uhlmann, Sebastian A note on κ-diagonal surface states. (English summary) **2005k:81273**
— *see also* **Ihl, Matthias et al.**, **2005f:81185**
Umetsu, Hiroshi *see* **Iso, Satoshi et al.**, **2005j:81148**
Uranga, Angel M. Chiral four-dimensional string compactifications with intersecting D-branes. (English summary) **2005d:81306**
— D-brane models and flux supersymmetry breaking. (English and French summaries) **2005k:81274**
— *see also* **Cámara, P. G. et al.**, **2005a:81161**; **2005j:81132**; **Cascales, Juan F. G. et al.**, **2005a:81162**; **2005d:81274**; **2005d:81275** *and* **2005m:81238**
Uvarov, Dmitriy V. (*with* Zheltukhin, Aleksandr A.) Hamiltonian of superstring and super p-branes with enhanced supersymmetry. (English summary)
— (*with* Zheltukhin, Aleksandr A.) Hamiltonian structure and noncommutativity in p-brane models with exotic supersymmetry. (English summary) **2005c:81184**
Vafa, Cumrun *see* **Intriligator, Ken et al.**, **2005a:81172**
Vaman, Diana *see* **Pando Zayas, Leopoldo A. et al.**, **2005g:81258**
Van den Bergh, Joris *see* **Smet, Geert**, **2005k:81266**
Vandoren, Stefan *see* **Davidse, Marijn et al.**, **2005h:81271**; **2005k:81223** *and* **Bergshoeff, Eric et al.**, **2005k:81210**
Van Raamsdonk, Mark *see* **Brecher, Dominic et al.**, **2005c:81154**
Vaulà, Silvia *see* **D'Auria, Riccardo et al.**, **2005j:81136**
Vázquez-Poritz, Justin F. *see* **Lü, Hong[1]**, **2005e:81186**
ter Veldhuis, T. *see* **Clark, Thomas E. et al.**, **2005i:81121** *and* **2005j:81134**
Verlinde, Erik *see* **de Boer, Jan et al.**, **2005c:81152**
Verlinde, Herman Bits, matrices and $1/N$. (English summary) **2005e:81203**
— *see also* **McGreevy, John et al.**, **2005d:81297** *and* **2005e:81189**
Viswanathan, Kadayam Sankaran *see* **Matlock, P.**, **2005j:81156**
Vladimirov, V. S. Adelic formulas for four-particle tree string and superstring amplitudes in class number one quadratic fields. (Russian. Russian summary) **2005i:81147**
Volovich, Anastasia *see* **DeWolfe, Oliver et al.**, **2005e:81171** *and* **Roiban, Radu et al.**, **2005g:81259**
Volovich, Yaroslav Properties of equations of dynamics in p-adic string and string field models. (Russian. Russian summary) **2005f:81206**
de Vroome, M. *see* **Davidse, Marijn et al.**, **2005h:81271**
Wadia, Spenta R. *see* **Mandal, Gautam**, **2005c:81173**
Walcher, Johannes *see* **Herzog, Christopher P.**, **2005b:81146**; **DeWolfe, Oliver et al.**, **2005e:81171**; **Franco, Sebastián et al.**, **2005h:81278** *and* **Hori, Kentaro**, **2005k:81237**
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Wells, James D. *see* **Kumar, Jason**, **2005j:81151**
Wen, Wen Yu *see* **Liu, James T. et al.**, **2005b:81152**
West, Peter C. E_{11} origin of brane charges and U-duality multiplets. (English summary) **2005h:81320**
— The IIA, IIB and eleven-dimensional theories and their common E_{11} origin. (English summary) **2005m:81269**
— Some simple predictions from E_{11} symmetry. (English summary) **2005g:81263**
— *see also* **Englert, François et al.**, **2005b:81139**
Westerberg, Anders *see* **Peeters, Kasper**, **2005a:81184**
Wijnholt, Martijn Large volume perspective on branes at singularities. (English summary) **2005d:81307**
Wijnhout, Jeroen *see* **de Boer, Jan et al.**, **2005m:81232** *and* **2005m:81233**
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Witten, Edward The past and future of string theory. (*see* **2005j:83002**)
— *see also* **Friedmann, Tamar**, **2005h:81279**
Wu, Yong Shi[1] *see* **Chen, Bin[5] et al.**, **2005b:81135**; **Dai, Jian[1]**, **2005b:81136** *and* **2005k:81221**
Yamada, Satoshi *see* **Uehara, Shozo**, **2005e:81202**
Yamaguchi, Hironori Open-closed duality of intersecting branes. (English summary)
Yamashita, Toshifumi *see* **Haba, Naoyuki**, **2005j:81141**
Yang, Fu-Zhong F-theory description of 3-string junction. (English summary) **2005b:81166**
Yang, Haitang Solving Witten's SFT by insertion of operators on projectors. (English summary) **2005i:81148**
Yang, Hyun Seok *see* **Cha, Kyung-Seok et al.**, **2005a:81163** *and* **2005b:81132**
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Yi, Piljin *see* **Gutperle, Michael**, **2005k:81234**
Yılmaz, Nejat T. Dualisation of the $D = 7$ heterotic string. (English summary) **2005g:81264**
Yin, Xi Matrix models, integrable structures and T-duality of type 0 string theory. (English summary) **2005k:81275**
Yoshida, Kentaroh *see* **Sakaguchi, Makoto**, **2005a:81186**; **2005b:81159**; **2005c:81178**; **Shin, Hyeonjoon**, **2005e:81198** *and* **2005i:81144**
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Zabzine, Maxim Geometry of D-branes for general $N = (2, 2)$ sigma models. (English summary) **2005m:81270**
Zaffaroni, Alberto[1] *see* **Pilo, Luigi et al.**, **2005e:81193**
Zagermann, Marco *see* **Dasgupta, Keshav et al.**, **2005h:81270**
Zamaklar, Marija (*with* Peeters, Kasper) Holographic dynamics of unstable branes in AdS. (English and French summaries) **2005k:81276**
— *see also* **Peeters, Kasper**, **2005k:81258**
Zarembo, Konstantin Semiclassical integrability in AdS/CFT. (English and French summaries) **2005k:81277**
— *see also* **Kazakov, Vladimir Aleksandrovich[1] et al.**, **2005g:81244** *and* **2005h:81294**
Zeze, Syoji World sheet geometry of classical solutions in string field theory. (English summary) **2005i:81149**
— *see also* **Katsumata, Fumie et al.**, **2005h:81293**
Zhang, Ren-Jie *see* **Kobayashi, Tatsuo et al.**, **2005b:81150** *and* **2005i:81136**
Zheltukhin, Aleksandr A. *see* **Uvarov, Dmitriy V.**, **2005c:81184**
Zhou, Chengang *see* **Douglas, Michael R.**, **2005f:81176**
Zhukovskaya, L. V. Energy conservation for p-adic string equations and equations of string field theory. (Russian. Russian summary) **2005g:81265**
Zorin, Andrei G. *see* **Ketov, Sergei V. et al.**, **2005f:81189**
Zwiebach, Barton ★ A first course in string theory. **2005e:81204**
— *see also* **Okawa, Yuji**, **2005e:81191**; **2005e:81192** *and* **Berkovits, Nathan et al.**, **2005k:81211**

Items with secondary classifications in 81T30

Abdalla, M. C. B. (*with* Bytsenko, Andrei A.; Guimarães, M. E. X.) Black hole entropy associated with the supersymmetric sigma model. (English summary) **2005f:81233**
Abel, Steven A. (*with* Lebedev, Oleg Valerievich; Santiago, José) Flavour in intersecting brane models and bounds on the string scale. (English summary)
Ahn, Changhyun (*with* Ookouchi, Yutaka) More on $\mathcal{N} = 1$ matrix model curve for arbitrary N. (English summary) **2005a:81207**
— $\mathcal{N} = 1$ conformal supergravity and twistor-string theory. (English summary) **2005j:83128**
— (*with* Feng, Bo[1]; Ookouchi, Yutaka; Shigemori, Masaki) Supersymmetric gauge theories with flavors and matrix models. (English summary) **2005h:81347**
Aisaka, Yuri (*with* Kazama, Yoichi) Relating Green-Schwarz and extended pure spinor formalisms by similarity transformation. (English summary) **2005d:81347**
Alday, Luis Fernando Non-local charges on $AdS_5 \times S^5$ and PP-waves. (English summary) **2005a:83112**
Aldazabal, Gerardo (*with* Ibáñez, Luis E.; Uranga, Angel M.) Solving the strong CP problem via Wess-Zumino terms. (English summary) **2005a:81262**
Alishahiha, Mohsen (*with* Mosaffa, Amir E.) Semiclassical string solutions on deformed NS5-brane backgrounds and new plane wave. (English summary) **2005b:83107**
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Amador, Xavier (*with* Cáceres, Elena; García-Compeán, Hugo; Güijosa, Alberto) Conifold holography. (English summary) **2005a:83113**
Ambjørn, Jan (*with* Anagnostopoulos, K. N.; Bietenholz, Wolfgang; Hofheinz, Frank; Nishimura, Jun[1]) On the quantum geometry of string theory. (English summary) **2005i:83112**
— (*with* Arianos, S.; Gesser, J. A.; Kawamoto, Shoichi) The geometry of ZZ-branes. (English summary) **2005g:81267**
Anagnostopoulos, K. N. *see* **Ambjørn, Jan et al.**, **2005i:83112**
Anderson, Lara B. (*with* Wheeler, James T.) Biconformal supergravity and the AdS/CFT conjecture. (English summary) **2005a:83132**
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(Antoniadis, Ignatios) *see* **Strings 04. Part I**, **2005j:81002** *and* **Strings 04. Part II**, **2005j:81003**
Aoyama, Shogo (*with* Masuda, Takahiro) The Whitham deformation of the Dijkgraaf-Vafa theory. (English summary) **2005e:81223**
Apreda, Riccardo (*with* Crooks, David E.; Evans, Nick; Petrini, Michela) Confinement, glueballs and strings from deformed AdS. (English summary) **2005e:81224**
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— (*with* Russo, Jorge G.; Tseytlin, A. A.) Spinning strings in $AdS_5 \times S^5$: new integrable system relations. (English summary) **2005f:83096**
Arvidsson, Pär (*with* Flink, Erik; Henningson, Måns) The $(2, 0)$ supersymmetric theory of tensor multiplets and self-dual strings in six dimensions. (English summary) **2005e:81226**
Asano, Masako (*with* Natsuume, Makoto) The BRST quantization and the no-ghost theorem for AdS_3. (English summary) **2005b:81198**
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Azuma, Takehiro (*with* Bal, Subrata; Nagao, Keiichi; Nishimura, Jun[1]) Nonperturbative studies of fuzzy spheres in a matrix model with the Chern-Simons term. (English summary)
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Bak, Dongsu Holography with timelike bulk hypersurfaces. (English summary)

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— (*with* Yee, Ho-Ung) Holography, dimensional reduction and the Bekenstein bound. (English summary) **2005c:83058**

— (*with* Gutperle, Michael; Hirano, Shinji; Ohta, Nobuyoshi) Dilatonic repulsons and confinement via the AdS/CFT correspondence. (English summary) **2005h:83216**

— (*with* Hyakutake, Yoshifumi; Kim, Seok; Ohta, Nobuyoshi) A geometric look on the microstates of supertubes. (English summary) **2005k:83145**

Bakas, Ioannis (*with* Sourdis, Christos) On the tensionless limit of gauged WZW models. (English summary) **2005c:81185**

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Balasubramanian, Vijay (*with* de Boer, Jan; Feng, Bo[1]; He, Yang Hui; Huang, Min-xin; Jejjala, Vishnu; Naqvi, Asad) Multi-trace superpotentials vs. matrix models. (English summary) **2005b:81185**

Bañados, Máximo (*with* Schwimmer, Adam; Theisen, Stefan) Chern-Simons gravity and holographic anomalies. (English summary) **2005d:81321**

Bando, Masako (*with* Kugo, Taichiro; Sugamoto, Akio; Terunuma, Sachiko) Pentaquark baryons in string theory. (English summary) **2005g:81345**

Bandos, Igor A. (*with* Isidro, José María[2]) $D = 4$ supergravity dynamically coupled to superstring in a superfield Lagrangian approach. (English summary) **2005e:83101**

— (*with* de Azcárraga, José A.; Izquierdo, José Manuel; Picón, Moisés; Varela, Oscar) BPS preons, generalized holonomies, and $D = 11$ supergravities. (English summary) **2005g:83129**

— (*with* de Azcárraga, José A.; Picón, Moisés; Varela, Oscar) On the formulation of $D = 11$ supergravity and the composite nature of its three-form gauge field. (English summary) **2005k:83173**

Banerjee, Rabin (*with* Kim, Yoonbai; Kwon, O-Kab) Noncommutative tachyon kinks as $D(p-1)$-branes from unstable Dp-brane. (English summary) **2005k:81337**

Bantay, P. Permutation orbifolds and their applications. (English summary) **2005b:81169**

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— Further results about field theory on the world sheet and string formation. (English summary) **2005k:81182**

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— *see also* **Becker, Katrin et al., 2005b:83108**

Beisert, Niklas BMN operators and superconformal symmetry. (English summary) **2005a:81212**

— (*with* Bianchi, Massimo; Morales, José Francisco; Samtleben, Henning) On the spectrum of AdS/CFT beyond supergravity. (English summary) **2005b:83109**

Bekaert, Xavier (*with* Bukhbinder, I. L.; Pashnev, A.; Tsulaia, M.) On higher spin theory: strings, BRST, dimensional reductions. (English summary) **2005b:81199**

Belhaj, Adil (*with* García del Moral, Maria Pilar) On non-commutative G_2 structure. (English summary) **2005k:81135**

Bellucci, Stefano (*with* Ivanov, Evgeniĭ Alekseevich[2]; Krivonos, S. O.) Goldstone superfield actions in AdS_5 backgrounds. (English summary) **2005b:81186**

— (*with* Casteill, P.-Y.; Morales, José Francisco; Sochichiu, C.) SL(2)-spin chain and spinning strings on $AdS_5 \times S^5$. (English summary) **2005h:83217**

Bena, Iosif (*with* Murayama, Hitoshi; Tatar, Radu; Roiban, Radu) Matrix model description of baryonic deformations. (English summary) **2005c:81195**

— (*with* Roiban, Radu) $\mathscr{N} = 1^*$ in 5 dimensions: Dijkgraaf-Vafa meets Polchinski-Strassler. (English summary) **2005a:81213**

— (*with* Warner, Nicholas P.) A harmonic family of dielectric flow solutions with maximal supersymmetry. (English summary) **2005j:83129**

— (*with* Kraus, Per) Microscopic description of black rings in AdS/CFT. (English summary) **2005j:83106**

— (*with* Roiban, Radu; Tatar, Radu) Baryons, boundaries and matrix models. (English summary) **2005b:81187**

— (*with* Polchinski, Joseph; Roiban, Radu) Hidden symmetries of the $AdS_5 \times S^5$ superstring. (English summary) **2005g:83115**

— (*with* Smith, Douglas J.) Towards the solution to the giant graviton puzzle. (English summary) **2005k:83146**

Berenstein, David Shape and holography: studies of dual operators to giant gravitons. (English summary) **2005a:83114**

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Berg, Marcus (*with* Haack, Michael; Körs, Boris) Loop corrections to volume moduli and inflation in string theory. (English summary) **2005k:83147**

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Bergman, Oren (*with* Hirano, Shinji) The cap in the hat: unoriented 2D strings and matrix(-vector) models. (English summary) **2005g:81268**

— (*with* Lifschytz, Gilad) Schwarzschild black branes from unstable D-branes. (English summary) **2005b:83110**

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— (*with* Cucu, Sorin; de Wit, Tim; Gheerardyn, Jos; Vandoren, Stefan; Van Proeyen, Antoine) $N = 2$ supergravity in five dimensions revisited. (English summary) **2005c:83079**

— (*with* Nielsen, Mikkel; Roest, Diederik) The domain walls of gauged maximal supergravities and their M-theory origin. (English summary) **2005k:83174**

Berkooz, Micha (*with* Craps, Ben; Kutasov, David; Rajesh, Govindan) Comments on cosmological singularities in string theory. (English summary) **2005b:83111**

Berkovits, Nathan Self-dual super-Yang-Mills as a string theory in (x, θ) space. (English summary) **2005g:81299**

— (*with* Witten, Edward) Conformal supergravity in twistor-string theory. (English summary) **2005k:83148**

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— Alternative string theory in twistor space for $N = 4$ super-Yang-Mills theory. (English summary) **2005h:81353**

Berman, David S. (*with* Harvey, Jeffrey A.) The self-dual string and anomalies in the M5-brane. (English summary) **2005m:81293**

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Bertolini, Matteo Four lectures on the gauge/gravity correspondence. (English summary) **2005f:81236**

— (*with* Demasure, Yves; Di Vecchia, Paolo; Kristjansen, Charlotte; Merlatti, Paolo; Obers, Niels A.) Editorial: Papers from the RTN Workshop on the Quantum Structure of Spacetime and the Geometric Nature of Fundamental Interactions.

Bianchi, Massimo (*with* Zapata, Oswaldo; D'Appollonio, Giuseppe; Kiritsis, Elias) String amplitudes in the Hpp-wave limit of $AdS_3 \times S^3$. (English summary) **2005c:83069**

— *see also* **Beisert, Niklas et al., 2005b:83109**

Bietenholz, Wolfgang (*with* Hofheinz, Frank; Nishimura, Jun[1]) On the relation between non-commutative field theories at $\theta = \infty$ and large N matrix field theories. (English summary) **2005c:81226**

— *see also* **Ambjørn, Jan et al., 2005i:83112**

Bigatti, Daniela String theory and the fuzzy torus. (English summary) **2005k:81338**

Bigazzi, Francesco (*with* Cotrone, Aldo Lorenzo) PP-waves and softly broken $\mathscr{N} = 1$ SYM. (English summary) **2005c:83070**

Bilal, Adel (*with* Metzger, Steffen) Anomalies in M-theory on singular G_2-manifolds. (English summary) **2005e:81218**

Billó, Marco (*with* Frau, Marialuisa; Pesando, Igor; Lerda, Alberto) $\mathscr{N} = 1/2$ gauge theory and its instanton moduli space from open strings in R-R background. (English summary) **2005f:81237**

Biswas, Rahul (*with* Keski-Vakkuri, Esko; Leigh, Robert G.; Nowling, Sean; Sharpe, Eric) The taming of closed time-like curves. (English summary) **2005a:81151**

Blanco-Pillado, Jose J. (*with* Burgess, Clifford P.; Cline, James M.; Escoda, Cristina; Gómez-Reino, Marta; Kallosh, Renata; Linde, Andrei D.; Quevedo, Fernando) Racetrack inflation. (English summary) **2005h:83220**

Blau, Matthias (*with* O'Loughlin, Martin; Papadopoulos, George; Tseytlin, A. A.) Solvable models of strings in homogeneous plane-wave backgrounds. (English summary) **2005b:83112**

— (*with* Borunda, Monica; O'Loughlin, Martin; Papadopoulos, George) The universality of Penrose limits near space-time singularities. (English summary) **2005k:83149**

Blum, Julie D. Gravitational radiation from traveling waves on D strings. (English summary) **2005c:83071**

Blumenhagen, Ralph Supersymmetric orientifolds of Gepner models. (English summary) **2005a:81194**

— (*with* Weigand, Timo) Chiral supersymmetric Gepner model orientifolds. (English summary) **2005d:81309**

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Bordalo, Pedro Discrete torsion and WZW orbifolds. (English summary) **2005e:81206**

Borunda, Monica *see* **Blau, Matthias et al., 2005k:83149**

Boschi-Filho, Henrique (*with* Braga, Nelson R. F.) Isometries of a D3-brane space. (English summary) **2005d:83144**

— (*with* Braga, Nelson R. F.) AdS space compactification and holographic mapping in the AdS/CFT correspondence. (English summary) **2005g:81300**

Bostock, Paul (*with* Ross, Simon F.) Smeared branes and the Gubser-Mitra conjecture. (English summary) **2005i:83114**

Bouchard, Vincent (*with* Skarke, Harald) Affine Kac-Moody algebras, CHL strings and the classification of tops. (English summary) **2005b:17050**

Bousso, Raphael Harmonic resolution as a holographic quantum number. (English summary) **2005i:83055**

Bouwknegt, Peter (*with* Hannabuss, Keith; Mathai, Varghese) T-duality for principal torus bundles. (English summary) **2005k:53023**

Braga, Nelson R. F. (*with* Ferreira, Cristine N.) Topological mass term in effective braneworld scenario with torsion. (English summary) **2005m:83118**

— *see also* **Boschi-Filho, Henrique, 2005d:83144** *and* **2005g:81300**

Brecher, Dominic (*with* Danielsson, Ulf H.; Gregory, James P.; Olsson, Martin E.) Rotating black holes in a Gödel universe. (English summary) **2005b:83113**

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Brito, Francisco A. *see* **Bazeia, Dionisio et al., 2005h:83174**

Britto-Pacumio, Ruth A. (*with* Feng, Bo[1]) $\mathscr{N} = \frac{1}{2}$ Wess-Zumino model is renormalizable. (English summary) **2005a:81239**

Brodie, John H. (*with* Easson, Damien A.) Brane inflation and reheating. (English summary) **2005h:83179**

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Buchel, Alex $\mathscr{N} = 2^*$ hydrodynamics. (English summary) **2005h:81355**

Bukhbinder, I. L. *see* **Bekaert, Xavier et al., 2005b:81199**

Burgess, Clifford P. (*with* Cline, James M.; Stoica, Horace; Quevedo, Fernando) Inflation in realistic D-brane models. (English summary) **2005g:83116**

— (*with* Matias, Joaquim; Quevedo, Fernando) MSLED: a minimal supersymmetric large extra dimensions scenario. (English summary) **2005j:81207**

— *see also* **Tasinato, Gianmassimo et al., 2005b:83129** *and* **Blanco-Pillado, Jose J. et al., 2005h:83220**

Burikham, Piyabut Remarks on limits on string scale from proton decay and low-energy amplitudes in braneworld scenario. (English summary) **2005k:83125**

Burinskiĭ, A. Ya. Orientifold D-string in the source of the Kerr spinning particle. **2005b:83019**

Bytsenko, Andrei A. (*with* Guimarães, M. E. X.; Kerner, Richard) Orbifold compactification and solutions of M-theory from Milne spaces. (English summary) **2005i:83115**

— *see also* **Abdalla, M. C. B. et al., 2005f:81233**

Cacciatori, Sergio L. (*with* Caldarelli, Marco M.; Klemm, Dietmar; Mansi, Diego S.) More on BPS solutions of $N = 2$, $D = 4$ gauged supergravity. (English summary) **2005f:83112**

Cáceres, Elena *see* **Amador, Xavier et al., 2005a:83113**

Caldarelli, Marco M. (*with* Silva, Pedro J.) Giant gravitons in AdS/CFT 1. Matrix model and back reaction. (English summary) **2005h:83223**

— *see also* **Cacciatori, Sergio L. et al., 2005f:83112**

Callan, Curtis G., Jr. (*with* McLoughlin, Tristan; Swanson, Ian) Holography beyond the Penrose limit. (English summary) **2005f:83097**

Campos, Antonio Asymptotic cosmological solutions for string and brane gases with solitonic fluxes. (English summary)

Cappelli, Andrea (*with* D'Appollonio, Giuseppe; Zabzine, Maxim) Landau-Ginzburg description of boundary critical phenomena in two dimensions. (English summary) **2005e:81207**

Cappiello, Luigi (*with* D'Ambrosio, Giancarlo) Supersymmetric dissipative quantum mechanics from superstrings. (English summary) **2005h:81357**

Cardoso, Gabriel Lopes (*with* de Wit, Bernard; Käppeli, Jürg; Mohaupt, Thomas) Asymptotic degeneracy of dyonic $N = 4$ string states and black hole entropy. (English summary) **2005k:83150**

Carey, Alan L. (*with* Johnson, Stuart; Murray, Michael K.) Holonomy on D-branes. (English summary) **2005m:53076**

Cariglia, Marco (*with* Gibbons, Gary W.; Güven, R.; Pope, Christopher N.) Non-abelian pp-waves in $D = 4$ supergravity theories. (English summary) **2005e:83103**

— (*with* Mac Conamhna, Oisín A. P.) The general form of supersymmetric solutions of $N = (0, 1)$ U(1) and SU(2) gauged supergravities in six dimensions. (English summary) **2005c:83080**

— (*with* Lechner, Kurt) Intersecting D-branes, Chern-kernels and the inflow mechanism. (English summary) **2005j:83109**

— (*with* Mac Conamhna, Oisín A. P.) Classification of supersymmetric spacetimes in eleven dimensions. (English summary) **2005m:83145**

de Carlos, Beatriz (*with* Moreno, Jesus M.) Regular compactifications and Higgs model vortices. (English summary) **2005h:83224**

— (*with* Roberts, Jonathan; Schmöhe, Yaiza) Moving five-branes and membrane instantons in low energy heterotic M theory. (English summary) **2005j:83110**

Cartier, Cyril (*with* Durrer, Ruth) Tachyonic perturbations in AdS_5 orbifolds. (English summary) **2005k:83127**

Caselle, Michele (*with* Pepe, Michele; Rago, Antonio) Static quark potential and effective string corrections in the $(2 + 1)$-**d** SU(2) Yang-Mills theory. (English summary) **2005h:81214**

Casteill, P.-Y. *see* **Bellucci, Stefano et al., 2005h:83217**

Castelo Ferreira, P. (*with* Kogan, I. I.; Szabo, Richard J.) D-branes in topological membranes. (English summary) **2005d:81310**

Castro, Carlos[1] Generalized p-forms electrodynamics in Clifford spaces. (English summary) **2005b:83050**

Çatal-Özer, Aybike *see* **Hull, Christopher M., 2005b:83122**

Chamseddine, Ali H. (*with* Volkov, Mikhail S.) Regular non-abelian vacua in $\mathcal{N} = 4$, SO(4) gauged supergravity. (English summary) **2005h:83251**

Chankowski, Piotr H. (*with* Lebedev, Oleg Valerievich; Pokorski, Stefan) Flavour violation in general supergravity. (English summary) **2005k:81368**

Chen, Bin[5] (*with* He, Ya-Li; Zhang, Peng[1]; Song, Xing-Chang) Flat currents of the Green-Schwarz superstrings in $AdS_5 \times S^1$ and $AdS_3 \times S^3$ backgrounds. (English summary) **2005m:83132**

Chen, Ching-Ming (*with* Kraniotis, G. V.; Mayes, V. E.; Nanopoulos, Dimitri; Walker, Joel) A supersymmetric flipped SU(5) intersecting brane world. (English summary) **2005j:83087**

Chen, Xingang Multithroat brane inflation. (English summary) **2005k:83195**

Chen, Yi Xin[1] (*with* Shao, Jing) Giant gravitons in a type IIA pp-wave background. (English summary) **2005e:83089**

Cherkis, Sergey A. *see* **Berenstein, David, 2005h:81352**

Chesterman, Michael Ghost constraints and the covariant quantization of the superparticle in ten dimensions. (English summary) **2005a:81236**

Chialva, Diego (*with* Iengo, Roberto) Long lived large type-II strings: decay within compactification. (English summary) **2005f:83098**

Clarkson, Richard (*with* Ghezelbash, Amir Masoud; Mann, Robert B.) New reducible membrane solutions in $D = 11$ supergravity. (English summary) **2005f:83113**

— (*with* Ghezelbash, Amir Masoud; Mann, Robert B.) New reducible five-brane solutions in M-theory. (English summary) **2005i:83116**

Clément, Gérard (*with* Gal'tsov, D. V.; Leygnac, Cédric) Black branes on the linear dilaton background. (English summary) **2005m:83147**

Cline, James M. *see* **Burgess, Clifford P. et al., 2005g:83116**; **Blanco-Pillado, Jose J. et al., 2005h:83220** *and* **Vinet, Jérémie, 2005k:83191**

Constable, Neil R. (*with* Erdmenger, Johanna; Guralnik, Zachary; Kirsch, Ingo) Intersecting D3-brane and holography. (English summary) **2005d:83131**

Cook, Paul P. (*with* West, Peter C.) $\mathcal{G}^{+++}$ and brane solutions. (English summary) **2005k:83152**

Copeland, Edmund J. (*with* Myers, Robert C.; Polchinski, Joseph) Cosmic F- and D-strings. (English summary) **2005k:83153**

Cornalba, Lorenzo (*with* Costa, M. S.) Time-dependent orbifolds and string cosmology. (English summary) **2005b:83114**

Correa, Diego H. (*with* Medina, A. D.; Moreno, Enrique F.; Schaposnik, Fidel A.) Dyons in $\mathcal{N} = 4$ gauged supergravity. **2005a:83134**

Costa, M. S. *see* **Cornalba, Lorenzo, 2005b:83114**

Cotrone, Aldo Lorenzo *see* **Bigazzi, Francesco, 2005c:83070**

Craps, Ben *see* **Berkooz, Micha et al., 2005b:83111**

Cremonini, Sera (*with* Donos, Aristomenis) Cubic interactions in the Berenstein-Maldacena-Nastase limit of $AdS_3 \times S^3$. (English summary) **2005h:83225**

Crooks, David E. *see* **Apreda, Riccardo et al., 2005e:81224** *and* **Areán, Daniel et al., 2005h:81348**

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Curio, Gottfried *see* **Andreas, Björn et al., 2005d:81386** *and* **Becker, Melanie et al., 2005e:83088**

Cvetič, Mirjam (*with* Gibbons, Gary W.; Lü, Hong[1]; Pope, Christopher N.) Orientifolds and slumps in G_2 and Spin(7) metrics. (English summary) **2005d:53079**

— (*with* Nojiri, Shin'ichi; Odintsov, Sergei D.) Cosmological anti-de Sitter space-times and time-dependent AdS/CFT correspondence. (English summary) **2005c:83072**

— (*with* Lü, Hong[1]; Pope, Christopher N.) Penrose limits, pp waves, and deformed M2-branes. (English summary) **2005g:83117**

— (*with* Gibbons, Gary W.; Pope, Christopher N.) Ghost-free de Sitter supergravities as consistent reductions of string and M-theory. (English summary) **2005h:83253**

Dall'Agata, Gianguido String compactifications with fluxes. (English summary) **2005h:83226**

— (*with* D'Auria, Riccardo; Sommovigo, Luca; Vaulà, Silvia) $D = 4$, $\mathcal{N} = 2$ gauged supergravity in the presence of tensor multiplets. (English summary) **2005g:83130**

D'Ambrosio, Giancarlo *see* **Cappiello, Luigi, 2005h:81357**

Danielsson, Ulf H. A Matrix model black hole. II. (English summary) **2005a:83115**

— (*with* Gregory, James P.; Olsson, Martin E.; Rajan, Peter; Vonk, Marcel) Type-0A 2D black hole thermodynamics and the deformed matrix model. (English summary) **2005d:83132**

— *see also* **Brecher, Dominic et al., 2005b:83113**

D'Appollonio, Giuseppe *see* **Bianchi, Massimo et al., 2005c:83069** *and* **Cappelli, Andrea et al., 2005e:81207**

Das, Sumit R. (*with* Gómez, César) Open-closed duality and double scaling. (English summary) **2005h:81337**

— (*with* Michelson, Jeremy; Shapere, Alfred D.) Fuzzy spheres in pp wave matrix string theory. (English summary) **2005g:83118**

— (*with* Davis, Joshua L.; Larsen, Finn; Mukhopadhyay, Partha) Particle production in matrix cosmology. (English summary) **2005h:83227**

D'Auria, Riccardo (*with* Ferrara, Sergio; Trigiante, Mario) Homogeneous special manifolds, orientifolds and solvable coordinates. (English summary) **2005k:53061**

— (*with* Ferrara, Sergio; Trigiante, Mario) c-map, very special quaternionic geometry and dual Kähler spaces. (English summary) **2005d:53075**

— (*with* Ferrara, Sergio; Trigiante, Mario) No-scale supergravity from higher dimensions. (English and French summaries) **2005k:83177**

— *see also* **Dall'Agata, Gianguido et al., 2005g:83130**

David, Justin R. (*with* Gava, Edi; Narain, Kumar S.) Partial $\mathcal{N} = 2 \to \mathcal{N} = 1$ supersymmetry breaking and gravity deformed chiral rings. (English summary) **2005i:81160**

Davidson, Aharon *see* **Karasik, David, 2005a:83123**

Davis, Anne Christine *see* **Palma, Gonzalo A., 2005h:83208**

Davis, Joshua L. (*with* Pando Zayas, Leopoldo A.; Vaman, Diana) On black hole thermodynamics of 2-D type 0A. (English summary) **2005g:83064**

— *see also* **Das, Sumit R. et al., 2005h:83227**

Deger, Nihat Sadik (*with* Sarıoğlu, Özgür) Supersymmetric strings and waves in $D = 3$, $N = 2$ matter coupled gauged supergravities. (English summary) **2005j:83132**

Demasure, Yves *see* **Bertolini, Matteo et al.**

Deng, Hui[3] (*with* Hou, Bo-Yu; Shi, Kang-Jie; Yang, Zhan-Ying; Yue, Rui-Hong) Soliton solutions on noncommutative orbifold T^2/Z_4. (English summary) **2005d:81354**

Dent, James *see* **Arnowitt, R. et al., 2005i:83113**

De Risi, Giuseppe (*with* Grignani, Gianluca; Orselli, Marta; Semenoff, Gordon W.) DLCQ string spectrum from $\mathcal{N} = 2$ SYM theory. (English summary) **2005h:81358**

DeWolfe, Oliver (*with* Verlinde, Herman; Kachru, Shamit) The giant inflaton. (English summary) **2005d:83133**

Diaconescu, Duiliu-Emanuel (*with* Florea, Bogdan; Grassi, Antonella) Geometric transitions and open string instantons. (English summary) **2005a:81205**

— (*with* Florea, Bogdan; Grassi, Antonella) Geometric transitions, del Pezzo surfaces and open string instantons. (English summary) **2005a:81206**

Diaz, Danilo E. (*with* Dorn, Harald) Propagators and WKB-exactness in the plane wave limit of AdS × S. (English summary) **2005h:83228**

Dijkgraaf, Robbert (*with* Gukov, Sergei; Kazakov, Vladimir Aleksandrovich[1]; Vafa, Cumrun) Perturbative analysis of gauged matrix models. (English summary) **2005a:81217**

Dijkstra, T. P. T. (*with* Gato-Rivera, B.; Riccioni, Fabio; Schellekens, A. N.) On orientifolds of $c = 1$ orbifolds. (English summary) **2005k:81279**

Dimitriadis, Apostolos (*with* Peet, Amanda W.; Potvin, Geoff; Ross, Simon F.) Enhançon solutions: pushing supergravity to its limits. (English summary) **2005h:83254**

Dimopoulos, Savas (*with* Kachru, Shamit; Kaloper, Nemanja; Lawrence, Albion; Silverstein, Eva) Generating small numbers by tunneling in multi-throat compactifications. (English summary) **2005k:83154**

Dine, Michael (*with* Fox, Patrick J.; Gorbatov, Elie) Catastrophic decays of compactified space-times. (English summary) **2005j:83090**

Di Vecchia, Paolo $\mathcal{N} = 1$ super Yang-Mills from D branes. (English summary) **2005h:81360**

— *see also* **Bertolini, Matteo et al.**

Dobashi, Suguru (*with* Yoneya, Tamiaki) Resolving the holography in the plane-wave limit of AdS/CFT correspondence. (English summary) **2005i:83117**

— (*with* Yoneya, Tamiaki) Impurity non-preserving 3-point correlators of BMN operators from PP-wave holography. I. Bosonic excitations. (English summary) **2005i:83118**

Dolan, Louise (*with* Nappi, Chiara R.; Witten, Edward) A relation between approaches to integrability in superconformal Yang-Mills theory. (English summary) **2005a:81141**

van Dongen, Jeroen (*with* de Haro, Sebastian) On black hole complementarity. (English summary) **2005j:83057**

Donoghue, John F. Dynamics of M-theory vacua. (English summary) **2005f:83099**

Donos, Aristomenis *see* **Cremonini, Sera, 2005h:83225**

Dorey, Nick Lectures on supersymmetric gauge theory. (English summary) **2005h:81361**

— S-duality, deconstruction and confinement for a marginal deformation of $\mathcal{N} = 4$ SUSY Yang-Mills. (English summary) **2005j:81178**

Dorn, Harald (*with* Salizzoni, Mario; Sieg, Christoph) Comments on the scalar propagator in AdS × S and the BMN plane wave. (English summary) **2005d:81331**

— (*with* Salizzoni, Mario; Sieg, Christoph) On the propagator of a scalar field in AdS × S and in its plane wave limit. (English summary) **2005k:83155**

— *see also* **Diaz, Danilo E., 2005h:83228**

Douglas, Michael R. *see* **Strings and geometry, 2005g:81004** *and* **Ashok, Sujay K.,**

2005h:83215
Dragović, Branko G. Non-Archimedean geometry and physics on adelic spaces. (English summary) **2005c:11166**
— p-adic and adelic quantum mechanics. (English summary) **2005g:81011**
Duan, Yi Shi (*with* Liu, Yuxiao; Zhang, Li Jie[1]) Spinor field realizations of non-critical $W_{2,s}$ strings. (English summary) **2005g:81272**
Dubovskiĭ, S. L. (*with* Sibiryakov, S. M.) Domain walls in noncommutative gauge theories, folded D-branes, and communication with mirror world. (English summary) **2005d:81355**
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— (*with* Timirgaziu, Maria-Cristina) Non-tachyonic Scherk-Schwarz compactifications, cosmology and moduli stabilization. (English summary) **2005a:83116**
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— *see also* **Brodie, John H., 2005h:83179**
Edelstein, José D. (*with* Mas, Javier) Localized intersections of non-extremal p-branes and S-branes. (English summary) **2005d:83135**
Eguchi, Tohru (*with* Kanno, Hiroaki) Topological strings and Nekrasov's formulas. (English summary) **2005b:81178**
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— (*with* Sugawara, Yuji) $SL(2;\mathbb{R})/U(1)$ supercoset and elliptic genera of non-compact Calabi-Yau manifolds. (English summary) **2005h:81324**
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Elvang, Henriette (*with* Emparan, Roberto; Figueras, Pau) Non-supersymmetric black rings as thermally excited supertubes. (English summary) **2005k:83178**
Emparan, Roberto *see* **Elvang, Henriette et al., 2005k:83178**
Enger, H. (*with* Lütken, C. A.) Non-linear Yang-Mills instantons from strings are π-stable D-branes. (English summary) **2005f:14025**
Englert, François (*with* Houart, Laurent) $\mathcal{E}^{+++}$-invariant formulation of gravity and M-theories: exact intersecting brane solutions. (English summary) **2005h:83232**
Engquist, Johan Higher conserved charges and integrability for spinning strings in $AdS_5 \times S^5$. (English summary) **2005g:81301**
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— *see also* **Constable, Neil R. et al., 2005d:83131**
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— *see also* **Apreda, Riccardo et al., 2005e:81224**
Eynard, Bertrand Master loop equations, free energy and correlations for the chain of matrices. (English summary) **2005k:82041**
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Fidanza, Stéphane (*with* Minasian, Ruben; Tomasiello, Alessandro) Mirror symmetric SU(3)-structure manifolds with NS fluxes. (English summary) **2005i:32026**
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Franco, Sebastián (*with* Hanany, Amihay; Kazakopoulos, Pavlos) Hidden exceptional global symmetries in 4d CFTs. (English summary) **2005f:81243**
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Fré, P. (*with* Gili, V.; Gargiulo, F.; Sorin, A. S.; Rulik, K.; Trigiante, Mario) Cosmological backgrounds of superstring theory and solvable algebras: oxidation and branes. (English summary) **2005g:83120**
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— *see also* **Schweigert, Christoph, 2005a:81202**
Fuji, Hiroyuki (*with* Mizoguchi, Shun'ya) Gravitational corrections for supersymmetric gauge theories with flavors via matrix models. (English summary) **2005e:81229**
— (*with* Mizoguchi, Shun'ya) Remarks on phase transitions in Matrix models and $\mathcal{N}=1$ supersymmetric gauge theory. (English summary) **2005a:81218**
Fukuma, M. (*with* Itoyama, Hiroshi; Nakatsu, Toshio; Tsuchiya, Asato) Preface [String theory].
Gabadadze, Gregory (*with* Iglesias, Alberto) On theta dependence of glueballs from AdS/CFT. (English summary) **2005h:81427**
Gaberdiel, Matthias R. (*with* Roggenkamp, Daniel; Gannon, Terry) The D-branes of $SU(n)$. (English summary) **2005j:81167**
— (*with* Gutperle, Michael) Remarks on the rolling tachyon BCFT. (English summary) **2005m:81271**
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Gannon, Terry Variations on Dedekind's eta. **2005b:11051**
— *see also* **Gaberdiel, Matthias R. et al., 2005j:81167**
García-Compeán, Hugo (*with* García-Jiménez, G.; Obregón, Octavio; Ramírez Romero, Cupatitzio) Tachyon driven quantum cosmology in string theory. (English summary) **2005k:83199**
— *see also* **Amador, Xavier et al., 2005a:83113**
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— *see also* **Dijkstra, T. P. T. et al., 2005k:81279**
Gauntlett, Jerome P. (*with* Martelli, Dario; Pakis, Stathis; Waldram, Daniel) G-structures and wrapped NS5-branes. (English summary) **2005h:53040**
— *see also* **Strings and geometry, 2005g:81004**
Gava, Edi *see* **David, Justin R. et al., 2005i:81160**
Georgiou, George (*with* Travaglini, Gabriele) Fermion BMN operators, the dilatation operator of $\mathcal{N}=4$ SYM, and pp-wave string interactions. (English summary) **2005b:81191**
Gershun, V. D. Nonlocal brackets and integrable string models. (English summary) **2005e:81096**
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Ghezelbash, Amir Masoud *see* **Clarkson, Richard et al., 2005f:83113** *and* **2005i:83116**
Ghodsi, Ahmad (*with* Mosaffa, Amir E.) D-brane dynamics in RR deformation of NS5-branes background and tachyon cosmology. (English summary) **2005j:83116**
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— (*with* Yahiro, Masanobu) Chiral symmetry breaking driven by dilaton. (English summary) **2005f:81111**
Ghoshal, Debashis Exact noncommutative solitons in p-adic strings and BSFT. (English summary) **2005h:81400**
— (*with* Mukhi, Sunil; Murthy, Sameer) Liouville D-branes in two-dimensional strings and open string field theory. (English summary) **2005j:81168**
— Noncommutative p-tachyon. (English summary) **2005f:81260**
Gibbons, Gary W. *see* **Cvetič, Mirjam et al., 2005d:53079; 2005h:83253** *and* **Cariglia, Marco et al., 2005e:83103**
Gili, V. *see* **Fré, P. et al., 2005g:83120**
Giombi, Simone (*with* Ricci, Riccardo[2]; Robles-Llana, Daniel; Trancanelli, Diego) A note on twistor gravity amplitudes. (English summary) **2005g:81303**
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Giveon, Amit (*with* Konechny, Anatoly; Rabinovici, Eliezer; Sever, Amit) On thermodynamical properties of some coset CFT backgrounds. (English summary) **2005h:81328**
— (*with* Sever, Amit) Strings in a 2-d extremal black hole. (English summary) **2005k:83157**
Goldin, Gerald A. (*with* Shtelen, Vladimir M.) Generalizations of Yang-Mills theory with nonlinear constitutive equations. (English summary) **2005g:81195**
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— From free fields to AdS space. II. (English summary) **2005h:81367**
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Gran, Ulf *see* **Bergshoeff, Eric et al., 2005c:83078**
Graña, Mariana (*with* Minasian, Ruben; Petrini, Michela; Tomasiello, Alessandro) Supersymmetric backgrounds from generalized Calabi-Yau manifolds. (English summary) **2005k:81313**
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— *see also* **Diaconescu, Duiliu-Emanuel et al., 2005a:81205** *and* **2005a:81206**
Grassi, Pietro Antonio (*with* Policastro, G.; van Nieuwenhuizen, Peter) On the BRST cohomology of superstrings with/without pure spinors. (English summary) **2005h:81388**
— (*with* van Nieuwenhuizen, Peter) $N=4$ superconformal symmetry for the covariant quantum superstring. (English summary) **2005i:81171**
— *see also* **Anguelova, Lilia, 2005k:81333**
Gray, James A. (*with* Lukas, André) Gauge five-brane moduli in four-dimensional

heterotic models. (English summary) **2005h:83234**

Green, Michael B. (*with* Kovacs, Stefano) Instanton-induced Yang-Mills correlation functions at large N and their $AdS_5 \times S^5$ duals. (English summary) **2005a:81222**

Greene, Brian R. ★ The fabric of the cosmos. **2005d:83001**

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Grignani, Gianluca *see* **De Risi, Giuseppe et al., 2005h:81358**

Groot Nibbelink, Stefan (*with* Hillenbach, Mark; Kobayashi, Tatsuo; Walter, Martin G. A.) Localization of heterotic anomalies on various hypersurfaces of $T^6/\mathbb{Z}_4$. (English summary) **2005f:81231**

Gross, David J. (*with* Walcher, Johannes) Non-perturbative RR potentials in the $\hat{c} = 1$ matrix model. (English summary) **2005j:81169**

(Gross, Mark) *see* **Strings and geometry, 2005g:81004**

Grumiller, Daniel *see* **Bergamin, Luzi et al., 2005h:83247**

Gubser, Steven S. String production at the level of effective field theory. (English summary) **2005f:83100**

— The Gregory-Laflamme instability for the D2-D0 bound state. (English summary) **2005k:83158**

Güijosa, Alberto (*with* Hernández Hernández, Héctor H.; Morales Técotl, Hugo A.) The entropy of the rotating charged black threebrane from a brane-antibrane system. (English summary) **2005a:83118**

— *see also* **Amador, Xavier et al., 2005a:83113**

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Gürsoy, Umut (*with* Hartnoll, Sean A.; Portugues, Rubén) The chiral anomaly from M-theory. (English summary) **2005e:81219**

Gustavsson, Andreas Conformal anomaly of Wilson surface observables—a field theoretical computation. (English summary) **2005d:81322**

Gutjahr, Petra (*with* Plefka, Jan) Decay widths of three-impurity states in the BMN correspondence. (English summary) **2005e:81230**

— (*with* Pankiewicz, Ari) New aspects of the BMN correspondence beyond the planar limit. (English summary) **2005j:83117**

Gutowski, Jan B. (*with* Reall, Harvey S.) Supersymmetric AdS_5 black holes. (English summary) **2005d:83071**

Gutperle, Michael (*with* Kraus, Per) Numerical study of cosmic censorship in string theory. (English summary) **2005b:83118**

— *see also* **Bak, Dongsu et al., 2005h:83216** *and* **Gaberdiel, Matthias R., 2005m:81271**

Guttenberg, Sebastian (*with* Knapp, Johanna; Kreuzer, Maximilian) On the covariant quantization of type-II superstrings. (English summary) **2005f:81254**

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Haack, Michael *see* **Berg, Marcus et al., 2005k:83147**

Habara, Yoshinobu (*with* Nielsen, Holger B.; Ninomiya, Masao) Boson sea versus Dirac sea: general formulation of the boson sea through supersymmetry. (English summary) **2005h:81368**

Hackett-Jones, Emily J. (*with* Smith, Douglas J.) Type-IIB Killing spinors and calibrations. (English summary) **2005i:83119**

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— (*with* Helfgott, C.) A basic class of twisted open WZW strings. (English summary) **2005h:81158**

Halyo, Edi Inflation on fractional branes: D-brane inflation as D-term inflation. (English summary) **2005f:83101**

— Black hole entropy and superconformal field theories on brane-antibrane systems. (English summary) **2005h:83109**

Hamilton, Alex Jordan (*with* Kabat, Daniel; Parikh, Maulik) A first-quantized formalism for cosmological particle production. (English summary) **2005f:83129**

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— *see also* **Franco, Sebastián et al., 2005f:81243**

Hannabuss, Keith *see* **Bouwknegt, Peter et al., 2005k:53023**

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— (*with* Obers, Niels A.) New phases of near-extremal branes on a circle. (English summary) **2005g:83121**

— (*with* Obers, Niels A.) New phases of thermal SYM and LST from Kaluza-Klein black holes. (English summary) **2005m:83135**

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Hartmann, Betti Non-abelian black strings. (English summary) **2005f:83102**

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Hashimoto, Akikazu (*with* Pando Zayas, Leopoldo A.) Correspondence principle for black holes in plane waves. (English summary) **2005a:83119**

Hashimoto, Yoshitake (*with* Sakaguchi, Makoto; Yasui, Yukinori) Sasaki-Einstein twist of Kerr-AdS black holes. (English summary) **2005h:83235**

Hatsuda, Machiko (*with* Siegel, Warren) New holographic limit of $AdS_5 \otimes S^5$. (English summary) **2005b:83119**

Hausel, Tamás (*with* Hunsicker, Eugenie; Mazzeo, Rafe) Hodge cohomology of gravitational instantons. (English summary) **2005d:58039**

He, Ya-Li *see* **Chen, Bin[5] et al., 2005m:83132**

He, Yang Hui (*with* Ovrut, Burt A.; Reinbacher, René) The moduli of reducible vector bundles. (English summary) **2005h:14028**

— *see also* **Balasubramanian, Vijay et al., 2005b:81185**

Headrick, Matthew Decay of $\mathbf{C}/Z_n$: exact supergravity solutions. (English summary) **2005b:83120**

— (*with* Raeymaekers, Joris) The large N limit of $\mathbb{C}/\mathbb{Z}_N$ and supergravity. (English summary) **2005k:83159**

Helfgott, C. *see* **Halpern, M. B., 2005g:81277** *and* **2005h:81158**

Henningson, Måns *see* **Arvidsson, Pär et al., 2005e:81226**

Herbst, Manfred (*with* Kling, Alexander; Kreuzer, Maximilian) Cyclicity of non-associative products on D-branes. (English summary) **2005g:81330**

Hernández, Rafael (*with* Sfetsos, Konstadinos; Zoakos, Dimitrios) Supersymmetry and Lorentzian holonomy in various dimensions. (English summary) **2005k:81315**

Hernández Hernández, Héctor H. *see* **Güijosa, Alberto et al., 2005a:83118**

Herrera-Aguilar, Alfredo Charging interacting rotating black holes in heterotic string theory. (English summary) **2005e:83092**

— (*with* Mora-Luna, Refugio Rigel) Inverse scattering method, Lie-Bäcklund transformations, and solitons for low-energy effective field equations of 5D string theory. (English summary) **2005e:83093**

Hertog, Thomas (*with* Horowitz, Gary T.; Maeda, Kengo) Negative energy in string theory and cosmic censorship violation. (English summary) **2005g:83122**

Higaki, Tetsutaro (*with* Kobayashi, Tatsuo; Seto, Osamu) D-term inflation and nonperturbative Kähler potential of dilaton. (English summary) **2005e:83094**

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— (*with* Lozano, Yolanda; Rodríguez-Gómez, Diego) Giant gravitons in $AdS_3 \times S^3 \times T^4$

as fuzzy cylinders. (English summary) **2005j:83120**
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— (*with* Solodukhin, S. N.) Effective stringy description of Schwarzschild black holes. (English summary) **2005j:83121**
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Meyer, Harvey (*with* Teper, Michael) Confinement and the effective string theory in $SU(N \to \infty)$: a lattice study. (English summary) **2005k:81199**
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Moss, Ian G. Zeta functions, anomalies and stable branes. (*see* **2005j:83002**)
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Mukhopadhyay, Partha *see* **Das, Sumit R. et al., 2005h:83227**
Mukhopadhyay, Subir (*with* Ray, Koushik) Seiberg duality as derived equivalence for some quiver gauge theories. (English summary) **2005a:81231**
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— (*with* Schnitzer, Howard J.; Wyllard, Niclas) Matrix-model description of $\mathcal{N}=2$ gauge theories with non-hyperelliptic Seiberg-Witten curves. (English summary) **2005b:81195**
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— (*with* Rajpoot, Subhash) Supermembrane with non-abelian gauging and Chern-Simons quantization. (English summary) **2005j:81188**
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— *see also* **Cvetič, Mirjam et al., 2005c:83072**
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— (*with* Vafa, Cumrun) Gravity induced C-deformation. (English summary) **2005c:81212b**
— *see also* **Kraus, Per et al., 2005b:81174**
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— A note on supersymmetric Gödel black holes, strings and rings of minimal $d = 5$ supergravity. (English summary) **2005k:83187**
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Paccetti Correia, Filipe (*with* Schmidt, Michael G.; Tavartkiladze, Zurab) Superfield approach to 5D conformal SUGRA and the radion. (English summary) **2005k:83188**
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— *see also* **Blau, Matthias et al., 2005b:83112** *and* **2005k:83149**
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Parkhomenko, S. E. Free field construction of D-branes in $N = 2$ superconformal minimal models. (English summary) **2005c:81188**
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— (*with* Zamaklar, Marija) Anti-de Sitter vacua require fermionic brane charges. (English summary) **2005e:83098**
Peloso, Marco *see* **Kim, Jihn E. et al., 2005j:83153**
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Penrose, Roger On the instability of extra space dimensions. (*see* **2005j:83002**)
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Petrini, Michela (*with* Tomasiello, Alessandro; Zaffaroni, Alberto[1]) On the geometry of matrix models for $\mathcal{N} = 1$. (English summary) **2005a:81232**
— *see also* **Apreda, Riccardo et al., 2005e:81224** *and* **Graña, Mariana et al., 2005k:81313**
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— *see also* **Lü, Hong[1] et al., 2005c:83086; 2005i:83121; Cvetič, Mirjam et al., 2005d:53079; 2005g:83117; 2005h:83253; Cariglia, Marco et al., 2005e:83103** *and* **Kerimo, Johannes et al., 2005h:83258**
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Prakash, Nirmala ★ Mathematical perspectives on theoretical physics. **2005f:81002**
Prokushkin, S. F. (*with* Sheikh-Jabbari, Mohammad M.) Squashed giants: bound states of giant gravitons. (English summary) **2005f:83108**
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Rashkov, Radoslav C. (*with* Viswanathan, Kadayam Sankaran; Yang, Yi[1]) Semiclassical analysis of string-gauge duality on noncommutative space. (English summary) **2005h:81407**
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Reall, Harvey S. Higher dimensional black holes and supersymmetry. (English summary) **2005d:83082**
— Erratum: "Higher dimensional black holes and supersymmetry" [Phys. Rev. D (3) **68** (2003), no. 2, 024024, 14 pp.; MR2033796 (2005d:83082)]. **2005j:83068**
— *see also* **Gutowski, Jan B., 2005d:83071**
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Roiban, Radu (*with* Spradlin, Marcus; Volovich, Anastasia) Tree-level S matrix of Yang-Mills theory. (English summary) **2005h:81239**
— (*with* Volovich, Anastasia) All conjugate-maximal-helicity-violating amplitudes from topological open string theory in twistor space. (English summary) **2005i:81156**
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Rulik, K. *see* **Fré, P. et al., 2005g:83120**
Russo, Jorge G. Preface: Lectures from the European RTN Winter School on Strings, Supergravity and Gauge Fields, Barcelona, 12–16 January 2004.
— *see also* **Arutyunov, Gleb E. et al., 2005f:83096**
Russo, Rodolfo (*with* Tanzini, Alessandro) The duality between IIB string theory on PP-wave and $\mathcal{N} = 4$ SYM: a status report. (English summary) **2005e:83099**
Ryan, Michael P., Jr. *see* **Obregón, Octavio et al., 2005f:83106**
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Sadri, Darius (*with* Sheikh-Jabbari, Mohammad M.) Giant hedge-hogs: spikes on giant gravitons. (English summary) **2005a:81233**
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— *see also* **Hashimoto, Yoshitake et al., 2005h:83235**
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Sakharov, Alexander S. *see* **Ellis, Jonathan Richard et al., 2005m:83156**
Salgado, Patricio (*with* Rodriguez, Eduardo; Izaurieta, F.) Supergravity in $(2+1)$ dimensions from $(3+1)$-dimensional supergravity. (English summary) **2005f:83125**
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Sämann, Christian The topological B-model on fattened complex manifolds and subsectors of $\mathcal{N}=4$ self-dual Yang-Mills theory. (English summary) **2005m:81292**
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Saneblidze, Samson (*with* Umble, Ronald) Diagonals on the permutahedra, multiplihedra and associahedra. (English summary) **2005j:55023**
Santiago, José *see* **Abel, Steven A. et al.**
Saremi, Omid (*with* Peet, Amanda W.) Brane-antibrane systems and the thermal life of neutral black holes. (English summary) **2005m:83079**
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Sarkissian, Gor (*with* Zamaklar, Marija) Diagonal D-branes in product spaces and their Penrose limits. (English summary) **2005a:83129**
— (*with* Zamaklar, Marija) Symmetry breaking, permutation D-branes on group manifolds: boundary states and geometric description. (English summary) **2005e:81212**
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Sato, Matsuo (*with* Tsuchiya, Asato) M5-brane effective action as an on-shell action in supergravity. (English summary) **2005h:83259**
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Schäfer-Nameki, Sakura The algebraic curve of 1-loop planar $\mathcal{N}=4$ SYM. (English summary) **2005k:81328**
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Schwimmer, Adam *see* **Bañados, Máximo et al., 2005d:81321**
Scrucca, Claudio A. (*with* Serone, Marco; Wulzer, Andrea; Silvestrini, Luca) Gauge-Higgs unification in orbifold models. (English summary) **2005e:81263**
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Semenoff, Gordon W. (*with* Young, Donovan) Wavy Wilson line and AdS/CFT. (English summary)
— *see also* **De Risi, Giuseppe et al., 2005h:81358**
Serban, Didina (*with* Staudacher, Matthias) Planar $\mathcal{N}=4$ gauge theory and the Inozemtsev long range spin chain. (English summary) **2005e:81238**
Sergeev, Armen G. Adiabatic limits and Abrikosov strings. (Russian. Russian summary) **2005d:58035**
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Sfetsos, Konstadinos *see* **Hernández, Rafael et al., 2005k:81315**
Shao, Jing *see* **Chen, Yi Xin[1], 2005e:83089**
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Sharpe, Eric *see* **Biswas, Rahul et al., 2005a:81151**
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Shelton, Jessie Closed superstring emission from rolling tachyon backgrounds. (English summary) **2005k:83169**
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— (*with* Takahashi, Keitaro; Himemoto, Yoshiaki; Yamamoto, Shuto) Gravity in the Randall-Sundrum two D-brane model. (English summary) **2005i:83109**
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Duan, Yi Shi (*with* Liu, Yuxiao; Zhang, Li Jie[1]) Spinor field realizations of non-critical $W_{2,s}$ strings. (English summary) **2005g:81272**
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— Modular bootstrap of boundary $N = 2$ Liouville theory. (English and French summaries) **2005k:81280**
Eynard, Bertrand (*with* Kokotov, A. Yu.; Korotkin, D.) Genus one contribution to free energy in Hermitian two-matrix model. (English summary) **2005i:81150**
Flohr, Michael A. I. Bits and pieces in logarithmic conformal field theory. (English summary) **2005g:81274**
— (*with* Krohn, M.) Operator product expansion and zero mode structure in logarithmic CFT. (English summary) **2005e:81208**
Förste, Stefan (*with* Roggenkamp, Daniel) Current-current deformations of conformal field theories, and WZW models. (English summary) **2005a:81196**
— Deformations of WZW models. (English summary) **2005b:81171**
Freidel, Laurent (*with* Krasnov, Kirill) 2D conformal field theories and holography. (English summary) **2005i:81151**
Friedrich, Roland M. (*with* Werner, Wendelin) Conformal restriction, highest-weight representations and SLE. (English summary) **2005b:81172**
— (*with* Kalkkinen, J.) On conformal field theory and stochastic Loewner evolution. (English summary) **2005b:81173**
Fring, Andreas *see* **Castro-Alvaredo, Olalla, 2005a:81195**
Fröhlich, Jürg (*with* Fuchs, Jürgen; Runkel, Ingo; Schweigert, Christoph) Algebras in tensor categories and coset conformal field theories. (English summary) **2005j:81166**
— (*with* Fuchs, Jürgen; Runkel, Ingo; Schweigert, Christoph) Kramers-Wannier duality from conformal defects. (English summary) **2005h:81325**
Fuchs, Jürgen (*with* Runkel, Ingo; Schweigert, Christoph) TFT construction of RCFT correlators. II. Unoriented world sheets. (English summary) **2005a:81197**
— (*with* Runkel, Ingo; Schweigert, Christoph) TFT construction of RCFT correlators. III. Simple currents. (English summary) **2005e:81209**
— *see also* **Schweigert, Christoph, 2005a:81202; Fröhlich, Jürg et al., 2005h:81325** *and* **2005j:81166**
Furlan, P. *see* **Atanasova, L. et al., 2005h:81321**
Gaberdiel, Matthias R. An algebraic approach to logarithmic conformal field theory. (English summary) **2005h:81326**
— (*with* Roggenkamp, Daniel; Gannon, Terry) The D-branes of $SU(n)$. (English summary) **2005j:81167**
— (*with* Klemm, Hanno) $N = 2$ superconformal boundary states for free bosons and fermions. (English summary) **2005d:81312**
— (*with* Gutperle, Michael) Remarks on the rolling tachyon BCFT. (English summary) **2005m:81271**
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— *see also* **Dijkstra, T. P. T. et al., 2005k:81279**
Gawędzki, Krzysztof (*with* Todorov, Ivan T.; Tran-Ngoc-Bich, Pascal) Canonical quantization of the boundary Wess-Zumino-Witten model. (English summary) **2005i:81152**
Gesser, J. A. *see* **Ambjørn, Jan et al., 2005g:81267**
Ghoshal, Debashis (*with* Mukhi, Sunil; Murthy, Sameer) Liouville D-branes in two-dimensional strings and open string field theory. (English summary) **2005j:81168**
Giribet, Gastón E. (*with* López-Fogliani, Daniel E.) Remarks on free field realization of $SL(2,\mathbb{R})_k/U(1) \times U(1)$ WZNW model. (English summary) **2005h:81327**
— *see also* **Bertoldi, Gaetano et al., 2005k:81278**
Giveon, Amit (*with* Konechny, Anatoly; Rabinovici, Eliezer; Sever, Amit) On thermodynamical properties of some coset CFT backgrounds. (English summary) **2005h:81328**
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Govindarajan, Suresh (*with* Majumder, Jaydeep) Crosscaps in Gepner models and type-IIA orientifolds. (English summary) **2005h:81329**
Graham, Kevin (*with* Watts, Gerard M. T.) Defect lines and boundary flows. (English summary) **2005f:81209**
Grinza, Paolo (*with* Ponsot, Bénédicte) Form factors in the massless coset models $su(2)_{k+1} \otimes su(2)_k/su(2)_{2k+1}$. I. (English summary) **2005m:81272**
Gross, David J. (*with* Walcher, Johannes) Non-perturbative RR potentials in the $\hat{c} = 1$ matrix model. (English summary) **2005j:81169**
Gruzberg, Ilya A. (*with* Kadanoff, Leo P.) The Loewner equation: maps and shapes. (English summary) **2005f:81210**
Gubser, Steven S. Loop effects in AdS/CFT and beyond. (English summary)
Gutperle, Michael *see* **Gaberdiel, Matthias R., 2005m:81271**
Hadasz, Leszek (*with* Jaskólski, Zbigniew) Classical Liouville action on the sphere with three hyperbolic singularities. (English summary) **2005g:81276**
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Hirano, Shinji *see* **Bergman, Oren, 2005g:81268**
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Huang, Yi-Zhi Conformal-field-theoretic analogues of codes and lattices. (English summary) **2005m:81274**
Hübsch, T. (*with* Rahman, Abdul) On the geometry and homology of certain simple stratified varieties. (English summary) **2005h:81331**
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Israël, Dan (*with* Pakman, Ari; Troost, Jan) Extended $SL(2,\mathbb{R})/U(1)$ characters, or modular properties of a simple non-rational conformal field theory. (English summary) **2005d:81313**
— (*with* Kounnas, Costas; Pakman, Ari; Troost, Jan) The partition function of the supersymmetric two-dimensional black hole and little string theory. (English summary) **2005g:81278**
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Kachkachi, Mohamed μ-holomorphy conditions: compatibility and physical applications. (English summary) **2005a:81198**
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Khoruzhiĭ, S. S. On a rigorous formulation of a 2D-conformal model in the Fock-Krein space; construction of the global Op J^*-algebra of fields and currents. (Russian. Russian summary) **2005k:81281**
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Korotkin, D. *see* **Eynard, Bertrand et al., 2005i:81150**
Kostov, Ivan K. Boundary ground ring in 2D string theory. (English summary) **2005f:81211**
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Krasnov, Kirill *see* **Freidel, Laurent, 2005i:81151**
Kraus, Per (*with* Ooguri, Hirosi; Shenker, Stephen) Inside the horizon with AdS/CFT. (English summary) **2005b:81174**
Kristjánsson, Kristján R. (*with* Thorlacius, Lárus) $c = 1$ boundary conformal field theory revisited. (English summary) **2005d:81314**
Krivonos, S. O. *see* **Bellucci, Stefano et al., 2005j:81165**
Kriz, Igor On spin and modularity in conformal field theory. (English and French summaries) **2005d:81315**
Krohn, M. *see* **Flohr, Michael A. I., 2005e:81208**
Kulish, Petr Petrovich (*with* Tseĭtlin, A. M.) Superconformal field theory and SUSY $N = 1$ KdV hierarchy. II. The Q-operator. (English summary) **2005m:81276**
Leigh, Robert G. (*with* Petkou, Anastasios C.) $SL(2,\mathbb{Z})$ action on three-dimensional CFTs and holography. (English summary) **2005g:81279**
Lesage, Frédéric (*with* Rasmussen, Jørgen) SLE-type growth processes and the Yang-Lee singularity. (English summary) **2005k:81282**
— (*with* Mathieu, Pierre[1]; Rasmussen, Jørgen; Saleur, Hubert) Logarithmic lift of the $\hat{su}(2)_{-1/2}$ model. (English summary) **2005h:81333**
Liu, Xin[5] *see* **Zhang, Yao-Zhong et al., 2005k:81287**
Liu, Yuxiao *see* **Duan, Yi Shi et al., 2005g:81272**
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Lowe, David A. q-deformed de Sitter/conformal field theory correspondence. (English summary) **2005k:81283**
Lukyanov, S. L. (*with* Vitchev, E. S.; Zamolodchikov, Aleksandr B.) Integrable model of boundary interaction: the paperclip. (English summary) **2005f:81212**
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Matone, Marco *see* **Bertoldi, Gaetano et al., 2005k:81278**
McGreevy, John (*with* Verlinde, Herman; Teschner, Jörg) Classical and quantum D-branes in 2D string theory. (English summary) **2005b:81175**
Melikyan, Arsen *see* **Das, Ashok et al., 2005g:81270**
Meljanac, Stjepan (*with* Samsarov, Andjelo) Erratum to: "Universal properties of conformal quantum many-body systems" [Phys. Lett. B **613** (2005), no. 3-4, 221–225; MR2132213 (2005k:81073)].

Menotti, Pietro (*with* Vajente, Gabriele) Semiclassical and quantum Liouville theory on the sphere. (English summary) **2005m:81277**
Moghimi-Araghi, S. (*with* Rajabpour, M. A.; Rouhani, S.) Logarithmic conformal null vectors and SLE. (English summary) **2005e:81210**
Moretti, Valter (*with* Pinamonti, Nicola) The interplay of conformal invariance, quantum field theory near the horizon of a 2D-black hole and holography. (English summary) **2005f:81213**
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Nagi, Jasbir Superconformal primary fields on a graded Riemann sphere. (English summary) **2005c:81187**
— (*with* Rasmussen, Jørgen) On stochastic evolutions and superconformal field theory. (English summary) **2005m:81278**
Nahm, Werner (*with* Wendland, Katrin) Mirror symmetry on Kummer type $K3$ surfaces. (English summary) **2005f:81214**
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— Crosscap states in $\mathcal{N} = 2$ Liouville theory. (English summary) **2005j:81171**
— *see also* **Bertoldi, Gaetano et al., 2005k:81278**
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Nirschl, M. (*with* Osborn, Hugh) Superconformal Ward identities and their solution. (English summary) **2005k:81284**
Nishimura, Madoka (*with* Tanii, Yoshiaki) Perturbations and supersymmetries in AdS_3/CFT_2. (English summary) **2005f:81215**
Nitta, Muneto Conformal sigma models with anomalous dimensions and Ricci solitons. (English summary) **2005m:81279**
Nitti, Francesco (*with* Porrati, Massimo) Hidden $\mathrm{sl}(2,\mathbb{R})$ symmetry in 2d CFTs and the wave function of 3d quantum gravity. (English summary) **2005b:81176**
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Pakman, Ari *see* **Israël, Dan et al., 2005d:81313** *and* **2005g:81278**
Parkhomenko, S. E. Free field construction of D-branes in $N = 2$ superconformal minimal models. (English summary) **2005c:81188**
— Free field approach to D-branes in $N = 2$ superconformal minimal models. (English summary) **2005e:81211**
Pengpan, Teparksorn Equal rank embedding and its related construction to superconformal field theories. (English summary) **2005f:81216**
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— *see also* **Leigh, Robert G., 2005g:81279**
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Piroux, Geoffroy (*with* Ruelle, Philippe) Pre-logarithmic and logarithmic fields in a sandpile model. (English summary) **2005i:81153**
Ponsot, Bénédicte Recent progress in Liouville field theory. (English summary) **2005f:81218**
— Monodromy of solutions of the Knizhnik-Zamolodchikov equation: $\mathrm{SL}(2)_k$ WZNW model. (English summary) **2005g:81280**
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— *see also* **Grinza, Paolo, 2005m:81272**
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— *see also* **Lesage, Frédéric et al., 2005h:81333**; **2005k:81282** *and* **Nagi, Jasbir, 2005m:81278**
Recknagel, Andreas From branes to boundary conformal field theory: draft of a dictionary. (English summary) **2005d:81316**
Ribault, Sylvain (*with* Schomerus, Volker) Branes in the 2D black hole. (English summary) **2005f:81220**
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Sarkissian, Gor (*with* Zamaklar, Marija) Symmetry breaking, permutation D-branes on group manifolds: boundary states and geometric description. (English summary) **2005e:81212**
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Schäfer-Nameki, Sakura K-theoretical boundary rings in $\mathcal{N} = 2$ coset models. (English summary) **2005m:81280**
Schellekens, A. N. *see* **Dijkstra, T. P. T. et al., 2005k:81279**
Schomerus, Volker *see* **Ribault, Sylvain, 2005f:81220**
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— *see also* **Fuchs, Jürgen et al., 2005a:81197**; **2005e:81209**; **Fröhlich, Jürg et al., 2005h:81325** *and* **2005j:81166**
Segal, A. Yu. Conformal higher spin theory. (English summary) **2005e:81213**
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— On the relation between quantum Liouville theory and the quantized Teichmüller spaces. (English summary) **2005g:81282**
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— *see also* **Nahm, Werner, 2005f:81214**
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Witten, Edward Conformal field theory in four and six dimensions. **2005m:81283**
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Zamolodchikov, Alekseĭ B. Higher equations of motion in Liouville field theory. (English summary) **2005g:81283**
Zhang, Li Jie[1] *see* **Duan, Yi Shi et al., 2005g:81272**
Zhang, Yao-Zhong (*with* Liu, Xin[5]; Yang, Wen Li[2]) Primary fields and screening currents of gl(2|2) non-unitary conformal field theory. (English summary) **2005k:81287**
Zimerman, A. H. *see* **Gomes, J. F. et al., 2005c:81186**

Items with secondary classifications in 81T40

Adak, M. (*with* Dereli, Tekin) Spinor couplings to dilaton gravity induced by the dimensional reduction of topologically massive gravity. (English summary) **2005b:83079**
Ahn, Changrim (*with* Yamamoto, Masayoshi) Boundary action of $N = 2$ super-Liouville theory. (English summary)
Aleksandrov, S. Yu. (*with* Kostov, Ivan K.) Time-dependent backgrounds of 2D string theory: non-perturbative effects. (English summary) **2005k:81202**
Anselmi, Damiano Finiteness of quantum gravity coupled with matter in three spacetime dimensions. (English summary) **2005d:83038**
Apikyan, S. A. (*with* Barsamyan, M. A.; Efthimiou, Costas J.) Geometric properties of W-algebras, and the Toda model. (Russian. Russian summary) **2005f:81087**
Arnaudon, Daniel *see* **Sakamoto, Reiho et al., 2005k:81109**
Asano, Masako (*with* Natsuume, Makoto) The BRST quantization and the no-ghost theorem for AdS_3. (English summary) **2005b:81198**
Astefanesei, Dumitru (*with* Mann, Robert B.; Radu, Eugen[2]) Reissner-Nordström-de Sitter black hole, planar coordinates and dS/CFT. (English summary) **2005a:83053**
Balaska, S. (*with* Demmouche, K.) The correlation functions of the (D_4, A_6) conformal model. (English summary) **2005g:81136**
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Bauer, Michel (*with* Bernard, Denis; Houdayer, J.) Dipolar stochastic Loewner evolutions. (English summary) **2005m:82108**
Bégin, L. (*with* Cummins, C. J.; Mathieu, Pierre[1]; Walton, Mark A.) Fusion rules and the Patera-Sharp generating-function method. (English summary) **2005f:81088**

Beisert, Niklas (*with* Staudacher, Matthias; Frolov, Sergei A.; Tseytlin, A. A.) Precision spectroscopy of AdS/CFT. (English summary) **2005g:81224**
(Belavin, A. A.) *see* **Proceedings: Workshop on Conformal Field Theory and Integrable Models, 6th International**
Benedetti, Riccardo About a quantum field theory for 3D gravity. (English summary) **2005g:83044**
Bernard, Denis *see* **Bauer, Michel et al., 2005m:82108**
Bertoldi, Gaetano (*with* Giribet, Gastón E.) Zamolodchikov operator-valued relations for $SL(2,\mathbf{R})_k$ WZNW model. (English summary) **2005g:81137**
Bertolini, Matteo (*with* Bigazzi, Francesco; Cotrone, Aldo Lorenzo) New checks and subtleties for AdS/CFT and a-maximization. (English summary) **2005j:81129**
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Borokhov, Vadim (*with* Kapustin, Anton; Wu, Xinkai) Monopole operators and mirror symmetry in three dimensions. (English summary) **2005c:81197**
Boschi-Filho, Henrique (*with* Braga, Nelson R. F.) AdS space compactification and holographic mapping in the AdS/CFT correspondence. (English summary) **2005g:81300**
Braga, Nelson R. F. *see* **Boschi-Filho, Henrique, 2005g:81300**
Caldarelli, Marco M. (*with* Silva, Pedro J.) Giant gravitons in AdS/CFT 1. Matrix model and back reaction. (English summary) **2005h:83223**
Cardy, John Conformal invariance in percolation, self-avoiding walks, and related problems. (English summary) **2005e:82035**
— SLE for theoretical physicists. (English summary)
Carfora, Mauro Discretized gravity and the SU(2) Wess-Zumino-Witten model. (English summary) **2005b:83035**
Carpi, Sebastiano On the representation theory of Virasoro nets. (English summary) **2005e:81128**
Caudrelier, V. (*with* Mintchev, M.; Ragoucy, É.) The quantum nonlinear Schrödinger model with point-like defect. (English summary) **2005j:81074**
Chattaraputi, Auttakit (*with* Englert, François; Houart, Laurent; Taormina, Anne) Fermionic subspaces of the bosonic string. (English summary) **2005b:81134**
Chekhov, L. O. (*with* Penner, R. Ch.) Introduction to Thurston's quantum theory. (Russian. Russian summary) **2005f:32024**
Cheung, Yeuk-Kwan E. (*with* Freidel, Laurent; Savvidy, Konstantin) Strings in gravimagnetic fields. (English summary) **2005e:81168**
Chong, Z.-W. (*with* Cvetič, Mirjam; Lü, Hong[1]; Pope, Christopher N.) Charged rotating black holes in four-dimensional gauged and ungauged supergravities. (English summary) **2005m:83146**
Clark, Thomas E. (*with* Nitta, Muneto; ter Veldhuis, T.) Superconformal symmetry, the supercurrent, and non-BPS brane dynamics. (English summary) **2005j:81134**
Conrady, Florian (*with* Schweigert, Christoph) Topologizations of chiral representations. (English summary) **2005d:81171**
Constable, Neil R. (*with* Erdmenger, Johanna; Guralnik, Zachary; Kirsch, Ingo) Intersecting D3-brane and holography. (English summary) **2005d:83131**
Contino, Roberto (*with* Pomarol, Alex) Holography for fermions. (English summary) **2005i:81090**
Coquereaux, Robert (*with* Huerta, Marina) Torus structure on graphs and twisted partition functions for minimal and affine models. (English summary) **2005g:81138**
— (*with* Huerta, Marina) Coxeter and Dynkin diagrams and their associated twisted partition functions for the Virasoro minimal models. (English summary) **2005k:81103**
(Corrigan, Edward) *see* **Proceedings: Workshop on Conformal Field Theory and Integrable Models, 6th International**
Cotrone, Aldo Lorenzo *see* **Bertolini, Matteo et al., 2005j:81129**
Cummins, C. J. *see* **Bégin, L. et al., 2005f:81088**
Cvetič, Mirjam *see* **Chong, Z.-W. et al., 2005m:83146**
Dabholkar, Atish (*with* Hull, Christopher M.) Duality twists, orbifolds, and fluxes. (English summary) **2005e:81169**
D'Adda, Alessandro (*with* Kanamori, Issaku; Kawamoto, Noboru; Nagata, Kazuhiro) Twisted superspace on a lattice. (English summary) **2005m:81300**
D'Antoni, Claudio (*with* Fredenhagen, Klaus; Köster, Søren) Implementation of conformal covariance by diffeomorphism symmetry. (English summary) **2005e:81129**
D'Appollonio, Giuseppe Gravitational waves from WZW models. (English summary) **2005b:83115**
Das, Sumit R. (*with* Karczmarek, Joanna L.) Spacelike boundaries from the $c = 1$ matrix model. (English summary) **2005m:81242**
Delfino, Gesualdo (*with* Niccoli, Giuliano) Form factors of descendant operators in the massive Lee-Yang model. (English summary) **2005m:81196**
Demmouche, K. *see* **Balaska, S., 2005g:81136**
Dereli, Tekin *see* **Adak, M., 2005b:83079**
Dorey, Patrick (*with* Fioravanti, Davide; Rim, Chaiho; Tateo, Roberto) Integrable quantum field theory with boundaries: the exact g-function. (English summary) **2005d:81177**
— (*with* Miramontes, J. Luis) Mass scales and crossover phenomena in the homogeneous sine-Gordon models. (English summary) **2005k:81163**
Dotsenko, Vladimir S. (*with* Jacobsen, Jesper Lykke; Santachiara, Raoul) Parafermionic theory and the symmetry Z_N for N even. (English summary) **2005e:81087**
— (*with* Santachiara, Raoul) The third parafermionic chiral algebra with the symmetry Z_3. (English summary) **2005k:81104**
Dütsch, Michael (*with* Rehren, Karl-Henning) Generalized free fields and the AdS-CFT correspondence. (English summary) **2005a:81129**
Dzhordzhadze, G. P. S-matrix, vertex operators and correlation functions of Liouville theory. (English summary) **2005c:81125**
Efthimiou, Costas J. *see* **Apikyan, S. A. et al., 2005f:81087**
Englert, François *see* **Chattaraputi, Auttakit et al., 2005b:81134**
Erdmenger, Johanna *see* **Constable, Neil R. et al., 2005d:83131**
Evans, David E. (*with* Pinto, Paulo R.) Modular invariants and their fusion rules. (English summary) **2005i:81063**
— Critical phenomena, modular invariants and operator algebras. (English summary) **2005e:46117**
— (*with* Pinto, Paulo R.) Subfactor realisation of modular invariants. (English summary) **2005k:46166**
Fabbri, Alessandro (*with* Navarro-Salas, José; Olmo, G. J.) Particles and energy fluxes from a conformal field theory perspective. (English summary) **2005h:81245**
Feĭgin, B. (*with* Jimbo, Michio; Loktev, S.; Miwa, Tetsuji) Two character formulas for $\widehat{sl}_2$ spaces of coinvariants. (English summary) **2005k:81105**
Felder, Giovanni (*with* Stevens, Laura J.; Varchenko, A. N.) Modular transformations of the elliptic hypergeometric functions, Macdonald polynomials, and the shift operator. (English and Russian summaries) **2005h:33035**
— (*with* Varchenko, A. N.) Hypergeometric theta functions and elliptic Macdonald polynomials. **2005b:33015**
Ferraro, Rafael 2D Born-Infeld electrostatic fields. (English summary) **2005c:81126**
Feverati, G. (*with* Pearce, Paul A.; Ravanini, Francesco) Excited boundary TBA in the tricritical Ising model. (English summary) **2005h:82031**
Fialowski, Alice (*with* Schlichenmaier, Martin) Global deformations of the Witt algebra of Krichever-Novikov type. (English summary) **2005b:17048**
Fioravanti, Davide Geometrical loci and CFTs via the Virasoro symmetry of the mKdV-SG hierarchy: an excursus. (English summary) **2005h:81161**
— *see also* **Dorey, Patrick et al., 2005d:81177**
Fortin, J.-F. (*with* Jacob, Patrick; Mathieu, Pierre[1]) $\mathcal{SM}(2,4\kappa)$ fermionic characters and restricted jagged partitions. (English summary) **2005k:81106**
Franco, Sebastián (*with* Hanany, Amihay; Kazakopoulos, Pavlos) Hidden exceptional global symmetries in 4d CFTs. (English summary) **2005f:81243**
Frappat, Luc *see* **Sakamoto, Reiho et al., 2005k:81109**
Fredenhagen, Klaus *see* **D'Antoni, Claudio et al., 2005e:81129**
Freidel, Laurent *see* **Cheung, Yeuk-Kwan E. et al., 2005e:81168**
Fring, Andreas Supersymmetric integrable scattering theories with unstable particles. (English summary) **2005m:81301**
Frolov, Sergei A. *see* **Beisert, Niklas et al., 2005g:81224**
Fuchs, Jürgen (*with* Schweigert, Christoph) Category theory for conformal boundary conditions. (English summary) **2005b:17056**
— (*with* Runkel, Ingo; Schweigert, Christoph) Lie algebras, Fuchsian differential equations and CFT correlation functions. (English summary) **2005m:81129**
— (*with* Hwang, Stephen; Semikhatov, A. M.; Tipunin, I. Yu.) Nonsemisimple fusion algebras and the Verlinde formula. (English summary) **2005h:81157**
Fujikawa, Kazuo (*with* Suzuki, Hiroshi) Anomalies, local counter terms and bosonization. (English summary) **2005f:81230**
Gaberdiel, Matthias R. (*with* Gannon, Terry) D-brane charges on non-simply connected groups. (English summary) **2005f:81178**
Galazhinskiĭ, A. V. (*with* Myagkiĭ, A. N.) $N = 4$ superconformal algebra in curved space, and pseudohyper-Kählerian geometry. (Russian. Russian summary) **2005c:81084**
Gannon, Terry *see* **Gaberdiel, Matthias R., 2005f:81178**
Geyer, Bodo (*with* Gitman, D. M.; Lavrov, P. M.; Moshin, P. Yu.) On problems of the Lagrangian quantization of W_3-gravity. (English summary) **2005a:81237**
de Gier, Jan (*with* Nienhuis, Bernard; Pearce, Paul A.; Rittenberg, Vladimir) The raise and peel model of a fluctuating interface. (English summary) **2005c:82067**
Giribet, Gastón E. *see* **Bertoldi, Gaetano, 2005g:81137**
Gitman, D. M. *see* **Geyer, Bodo et al., 2005a:81237**
Gomis, Jaume (*with* Kapustin, Anton) Two-dimensional unoriented strings and matrix models. (English summary) **2005g:81239**
Gorbunov, V. G. (*with* Malikov, F. G.; Schechtman, Vadim) Gerbes of chiral differential operators. III. **2005a:17028**
Grumiller, Daniel Long time black hole evaporation with bounded Hawking flux. (English summary) **2005k:83077**
Grünberg, Daniel B. $N = 4$ characters in Gepner models, orbits and elliptic genera. (English summary) **2005e:81088**
Guido, Daniele (*with* Longo, Roberto) A converse Hawking-Unruh effect and dS^2/CFT correspondence. (English summary) **2005b:81115**
Güijosa, Alberto (*with* Lowe, David A.) New twist on the dS/CFT correspondence. (English summary) **2005f:81181**
Gukov, Sergei (*with* Vafa, Cumrun) Rational conformal field theories and complex multiplication. (English summary) **2005k:11115**
Gunaydin, Murat (*with* Takemae, S.) Erratum to: "Unitary supermultiplets of $OSp(8^*|4)$ and the AdS_7/CFT_6 duality" [Nuclear Phys. B **578** (2000), no. 1-2, 405–448; MR1766151 (2001i:81262)].
Guralnik, Zachary *see* **Constable, Neil R. et al., 2005d:83131**
Gutperle, Michael D-branes and time dependent dynamics in two dimensional string theory. (English summary) **2005e:81178**
Hadasz, Leszek (*with* Jaskólski, Zbigniew) Polyakov conjecture for hyperbolic singularities. (English summary) **2005f:81140**
Halpern, M. B. (*with* Helfgott, C.) A basic class of twisted open WZW strings. (English summary) **2005h:81158**
Halyo, Edi Black hole entropy and superconformal field theories on brane-antibrane systems. (English summary) **2005h:83109**
Hanany, Amihay *see* **Franco, Sebastián et al., 2005f:81243**
Helfgott, C. *see* **Halpern, M. B., 2005h:81158**
Hemming, Samuli On free field realizations of strings in BTZ. (English summary) **2005b:81144**
Hikami, Kazuhiro (*with* Kirillov, Anatoliĭ N.) Torus knot and minimal model. (English summary) **2005b:57025**
Hikida, Yasuaki String theory on Lorentzian AdS_3 in minisuperspace. (English summary) **2005c:81165**
Hlavatý, Ladislav (*with* Šnobl, Libor) Poisson-Lie T-plurality of three-dimensional conformally invariant sigma models. II. Nondiagonal metrics and dilaton puzzle. (English summary) **2005m:81257**
Hofman, Diego M. (*with* Núñez, Carmen A.) Free field realization of superstring theory on AdS_3. (English summary) **2005e:81180**
Hosono, Shinobu (*with* Lian, Bong H.; Oguiso, Keiji; Yau, Shing-Tung) $c = 2$ rational toroidal conformal field theories via the Gauss product. (English summary) **2005b:11043**
Houart, Laurent *see* **Chattaraputi, Auttakit et al., 2005b:81134**
Houdayer, J. *see* **Bauer, Michel et al., 2005m:82108**
Hu, Po (*with* Kriz, Igor) Conformal field theory and elliptic cohomology. (English

summary) **2005m:55008**

Hubeny, Veronika E. (*with* Liu, Xiao[1]; Rangamani, Mukund; Shenker, Stephen) Comments on cosmic censorship in AdS/CFT. (English summary) **2005m:83089**

Huerta, Marina *see* **Coquereaux, Robert, 2005g:81138** *and* **2005k:81103**

Huiszoon, Lennaert Rene (*with* Schalm, Koenraad Eduard) BPS orientifold planes from crosscap states in Calabi-Yau compactifications. (English summary) **2005h:81289**

Hull, Christopher M. *see* **Dabholkar, Atish, 2005e:81169**

Hwang, Stephen *see* **Fuchs, Jürgen et al., 2005h:81157**

Ichikawa, Takashi Teichmüller groupoids, and monodromy in conformal field theory. (English summary) **2005e:32024**

Intriligator, Ken (*with* Wecht, Brian) Baryon charges in 4d superconformal field theories and their AdS duals. (English summary) **2005d:81340**

Iohara, Kenji (*with* Koga, Yoshiyuki) Representation theory of $N = 2$ super Virasoro algebra: twisted sector. (English summary) **2005i:17032**

Ivanov, Evgeniĭ Alekseevich[2] The "conformal theories—AdS-branes" mapping, or yet another aspect of the AdS/CFT-correspondence. (Russian. Russian summary) **2005f:81245**

Jacob, Patrick *see* **Fortin, J.-F. et al., 2005k:81106**

Jacobsen, Jesper Lykke *see* **Dotsenko, Vladimir S. et al., 2005e:81087**

Jaskólski, Zbigniew *see* **Hadasz, Leszek, 2005f:81140**

Jimbo, Michio (*with* Miwa, Tetsuji; Mukhin, E. E.; Takeyama, Yoshihiro) Form factors and action of $U_{\sqrt{-1}}(\widehat{\mathrm{sl}}_2)$ on ∞-cycles. (English summary) **2005c:81086**

— *see also* **Feĭgin, B. et al., 2005k:81105**

Jones, Vaughan F. R. (*with* Xu, Feng[5]) Intersections of finite families of finite index subfactors. (English summary) **2005g:46118**

Kager, Wouter (*with* Nienhuis, Bernard) A guide to stochastic Löwner evolution and its applications. (English summary) **2005f:82037**

Kanamori, Issaku *see* **D'Adda, Alessandro et al., 2005m:81300**

Kapustin, Anton *see* **Borokhov, Vadim et al., 2005c:81197** *and* **Gomis, Jaume, 2005g:81239**

Karczmarek, Joanna L. *see* **Das, Sumit R., 2005m:81242**

Kaufmann, Ralph M. Orbifolding Frobenius algebras. (English summary) **2005b:57057**

Kawahigashi, Yasuyuki Braiding and nets of factors on the circle. (English summary) **2005a:46126**

— (*with* Longo, Roberto) Classification of two-dimensional local conformal nets with $c < 1$ and 2-cohomology vanishing for tensor categories. (English summary) **2005d:81228**

Kawamoto, Noboru *see* **D'Adda, Alessandro et al., 2005m:81300**

Kazakopoulos, Pavlos *see* **Franco, Sebastián et al., 2005f:81243**

Keating, Jonathan P. (*with* Mezzadri, F.) Entanglement in quantum spin chains, symmetry classes of random matrices, and conformal field theory. (English summary) **2005m:82024**

Kholodenko, A. L. "New" Veneziano amplitudes from "old" Fermat (hyper)surfaces. (English summary) **2005g:81245**

Kirillov, Anatoliĭ N. *see* **Hikami, Kazuhiro, 2005b:57025**

Kirsch, Ingo Generalizations of the AdS/CFT correspondence. (English summary) **2005m:83139**

— (*with* Oprisa, Dan) Towards the deconstruction of M-theory. (English summary) **2005a:81176**

— *see also* **Constable, Neil R. et al., 2005d:83131**

Klemm, Hanno Embedding diagrams of the $N = 2$ superconformal algebra under spectral flow. (English summary) **2005i:81054**

Klimčík, Ctirad Quasitriangular WZW model. (English summary) **2005m:81161**

Klusoň, Josef Exact solutions in SFT and marginal deformation in BCFT. (English summary) **2005a:81177**

— Exact solutions in open bosonic string field theory and marginal deformation in CFT. (English summary) **2005g:81246**

Koga, Yoshiyuki *see* **Iohara, Kenji, 2005i:17032**

Kogetsu, Hisashi (*with* Teraguchi, Shunsuke) Massless boundary sine-Gordon model coupled to external fields. (English summary) **2005k:81166**

Köster, Søren Conformal covariance subalgebras. (English summary) **2005e:81089**

— Local nature of coset models. (English summary) **2005f:81096**

— *see also* **D'Antoni, Claudio et al., 2005e:81129**

Kostov, Ivan K. (*with* Ponsot, Bénédicte; Serban, Didina) Boundary Liouville theory and 2D quantum gravity. (English summary) **2005f:83073**

— *see also* **Aleksandrov, S. Yu., 2005k:81202**

Krasnov, Kirill On holomorphic factorization in asymptotically AdS 3D gravity. (English summary) **2005c:81191**

Kriz, Igor *see* **Hu, Po, 2005m:55008**

Kruczenski, Martin Wilson loops and anomalous dimensions in cascading theories. (English summary) **2005g:81309**

Kulish, Petr Petrovich (*with* Tseĭtlin, A. M.) Integrable structure of superconformal field theory and quantum super-KdV theory. (English summary) **2005f:81093**

— (*with* Tseĭtlin, A. M.) Superconformal field theory and SUSY $N = 1$ KdV hierarchy. I. Vertex operators and Yang-Baxter equation. (English summary) **2005k:81116**

Kutasov, David (*with* Okuyama, Kazumi; Park, Jong-Won; Seiberg, Nathan; Shih, David) Annulus amplitudes and ZZ branes in minimal string theory. (English summary) **2005h:81299**

Lavrov, P. M. *see* **Geyer, Bodo et al., 2005a:81237**

Lawler, Gregory F. (*with* Werner, Wendelin) The Brownian loop soup. (English summary) **2005f:60176**

Léandre, Rémi Stochastic Wess-Zumino-Novikov-Witten model on the torus. (English summary) **2005b:58056**

— Markov property and operads. (English summary) **2005f:58073**

Lian, Bong H. *see* **Hosono, Shinobu et al., 2005b:11043**

Liu, Xiao[1] *see* **Hubeny, Veronika E. et al., 2005m:83089**

Loktev, S. *see* **Feĭgin, B. et al., 2005k:81105**

Longo, Roberto (*with* Xu, Feng[5]) Topological sectors and a dichotomy in conformal field theory. (English summary) **2005i:81087**

— (*with* Rehren, Karl-Henning) Local fields in boundary conformal QFT. (English summary) **2005h:81195**

— *see also* **Guido, Daniele, 2005b:81115** *and* **Kawahigashi, Yasuyuki, 2005d:81228**

Loran, Farhang Massive spinors and dS/CFT correspondence. (English summary) **2005f:83089**

Louko, Jorma (*with* Wiśniewski, Jacek) Einstein black holes, free scalars, and AdS/CFT correspondence. (English summary) **2005m:83071**

Lowe, David A. *see* **Güijosa, Alberto, 2005f:81181**

Lü, Hong[1] *see* **Chong, Z.-W. et al., 2005m:83146**

Lynker, Monika (*with* Schimmrigk, Rolf; Stewart, Steven) Complex multiplication of exactly solvable Calabi-Yau varieties. (English summary) **2005g:11104**

Malik, R. P. Geometrical aspects of BRST cohomology in augmented superfield formalism. (English summary) **2005e:81241**

Malikov, F. G. *see* **Gorbunov, V. G. et al., 2005a:17028**

Mann, Robert B. *see* **Astefanesei, Dumitru et al., 2005a:83053**

Manvelyan, Ruben On marginal deformation of WZNW model and PP-wave limit of deformed $AdS_3 \times S^3$ string geometry. (English summary) **2005a:83126**

Martinec, Emil (*with* Okuyama, Kazumi) Scattered results in 2D string theory. (English summary) **2005k:81253**

Mathieu, Pierre[1] *see* **Bégin, L. et al., 2005f:81088** *and* **Fortin, J.-F. et al., 2005k:81106**

McGreevy, John (*with* Murthy, Sameer; Verlinde, Herman) Two-dimensional superstrings and the supersymmetric matrix model. (English summary) **2005e:81189**

Menotti, Pietro (*with* Tonni, Erik) The tetrahedron graph in Liouville theory on the pseudosphere. (English summary) **2005c:81129**

Mesref, L. q-deformed conformal correlation functions. (English summary) **2005m:81162**

Mezzadri, F. *see* **Keating, Jonathan P., 2005m:82024**

Mickelsson, Jouko Twisted K theory invariants. (English summary) **2005m:19005**

Minces, Pablo On the role of boundary terms in the AdS/CFT correspondence. (English summary) **2005g:81253**

Mintchev, M. *see* **Caudrelier, V. et al., 2005j:81074**

Miramontes, J. Luis *see* **Dorey, Patrick, 2005k:81163**

Miwa, Tetsuji *see* **Jimbo, Michio et al., 2005c:81086** *and* **Feĭgin, B. et al., 2005k:81105**

Moore, Gregory W. What is... a brane? **2005j:81157**

Moshin, P. Yu. *see* **Geyer, Bodo et al., 2005a:81237**

Mourão, José M. Aspects of the connections between path integrals, quantum field theory, topology and geometry. (English summary) **2005j:58013**

Mukhin, E. E. *see* **Jimbo, Michio et al., 2005c:81086**

Murthy, Sameer *see* **McGreevy, John et al., 2005e:81189**

Myagkiĭ, A. N. *see* **Galazhinskiĭ, A. V., 2005c:81084**

Nagata, Kazuhiro *see* **D'Adda, Alessandro et al., 2005m:81300**

Nakayama, Noriko (*with* Sugiyama, Katsuyuki) Construction of supergravity backgrounds with a dilaton field. (English summary) **2005i:83132**

Nakayama, Yu (*with* Sugawara, Yuji; Takayanagi, Hiromitsu) Boundary states for the rolling D-branes in NS5 background. (English summary) **2005h:81307**

— (*with* Panigrahi, Kamal L.; Rey, Soo-Jong; Takayanagi, Hiromitsu) Rolling down the throat in NS5-brane background: the case of electrified D-brane. (English summary) **2005k:81256**

Nakayashiki, Atsushi The chiral space of local operators in SU(2)-invariant Thirring model. (English summary) **2005c:81130**

Natsuume, Makoto *see* **Asano, Masako, 2005b:81198**

Navarro-Salas, José *see* **Fabbri, Alessandro et al., 2005h:81245**

Niccoli, Giuliano *see* **Delfino, Gesualdo, 2005m:81196**

Nichols, Alexander The origin of multiplets of chiral fields in $SU(2)_k$ at rational level. (English summary) **2005i:81055**

Nienhuis, Bernard *see* **de Gier, Jan et al., 2005c:82067** *and* **Kager, Wouter, 2005f:82037**

Nikolov, Nikolai Marinov (*with* Todorov, Ivan T.) Conformal invariance and rationality in an even dimensional quantum field theory. (English summary) **2005j:81103**

Nitta, Muneto *see* **Clark, Thomas E. et al., 2005j:81134**

Nolland, David AdS/CFT boundary conditions, multi-trace perturbations, and the c-theorem. (English summary) **2005c:81143**

— AdS/CFT boundary conditions and multi-trace perturbations for fermions. (English summary) **2005c:81144**

Núñez, Carmen A. *see* **Hofman, Diego M., 2005e:81180**

Oguiso, Keiji *see* **Hosono, Shinobu et al., 2005b:11043**

Okuyama, Kazumi *see* **Kutasov, David et al., 2005h:81299** *and* **Martinec, Emil, 2005k:81253**

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Oprisa, Dan *see* **Kirsch, Ingo, 2005a:81176**

Panigrahi, Kamal L. *see* **Nakayama, Yu et al., 2005k:81256**

Park, Jong-Won *see* **Kutasov, David et al., 2005h:81299**

Pearce, Paul A. *see* **de Gier, Jan et al., 2005c:82067** *and* **Feverati, G. et al., 2005h:82031**

Peeters, Kasper (*with* Zamaklar, Marija) AdS/CFT description of D-particle decay. (English summary) **2005k:81258**

Penner, R. Ch. *see* **Chekhov, L. O., 2005f:32024**

Pinto, Paulo R. *see* **Evans, David E., 2005i:81063** *and* **2005k:46166**

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Ponsot, Bénédicte *see* **Kostov, Ivan K. et al., 2005f:83073**

Pope, Christopher N. *see* **Chong, Z.-W. et al., 2005m:83146**

(Pugai, Yaroslav) *see* **Proceedings: Workshop on Conformal Field Theory and Integrable Models, 6th International**

Radu, Eugen[2] *see* **Astefanesei, Dumitru et al., 2005a:83053**

Ragoucy, É. *see* **Caudrelier, V. et al., 2005j:81074** *and* **Sakamoto, Reiho et al., 2005k:81109**

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Rim, Chaiho *see* **Dorey, Patrick et al., 2005d:81177**

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Rühl, Werner The production of masses for higher spin gauge fields on AdS(4) from AdS/CFT correspondence. (English summary) **2005m:83084**

Runkel, Ingo *see* **Fuchs, Jürgen et al., 2005m:81129**

Sachs, Ivo Quasi normal modes. (English summary) **2005c:83042**

Sakamoto, Reiho Explicit formula for singular vectors of the Virasoro algebra with central charge less than 1. (English summary) **2005k:81108**

— (*with* Shiraishi, Jun'ichi; Arnaudon, Daniel; Frappat, Luc; Ragoucy, É.) Correspondence between conformal field theory and Calogero-Sutherland model. (English summary) **2005k:81109**
Santachiara, Raoul *see* **Dotsenko, Vladimir S. et al., 2005e:81087** *and* **2005k:81104**
Sato, Akira (*with* Tsuchiya, Asato) ZZ brane amplitudes from matrix models. (English summary) **2005k:81261**
Savvidy, Konstantin *see* **Cheung, Yeuk-Kwan E. et al., 2005e:81168**
Schalm, Koenraad Eduard *see* **Huiszoon, Lennaert Rene, 2005h:81289**
Schechtman, Vadim *see* **Gorbunov, V. G. et al., 2005a:17028**
Schimmrigk, Rolf Aspects of conformal field theory from Calabi-Yau arithmetic. (English summary) **2005c:11086a**
— (*with* Underwood, Sean) The Shimura-Taniyama conjecture and conformal field theory. (English summary) **2005c:11086b**
— *see also* **Lynker, Monika et al., 2005g:11104**
Schlichenmaier, Martin Higher genus affine algebras of Krichever-Novikov type. (English and Russian summaries) **2005f:17025**
— *see also* **Fialowski, Alice, 2005b:17048**
Schomerus, Volker Rolling tachyons from Liouville theory. (English summary) **2005b:81161**
Schweigert, Christoph *see* **Fuchs, Jürgen et al., 2005b:17056**; **2005m:81129** *and* **Conrady, Florian, 2005d:81171**
Seiberg, Nathan (*with* Shih, David) Minimal string theory. (English and French summaries) **2005m:81266**
— *see also* **Kutasov, David et al., 2005h:81299**
Semikhatov, A. M. *see* **Fuchs, Jürgen et al., 2005h:81157**
Sen, Ashoke Moduli space of unstable D-branes on a circle of critical radius. (English summary) **2005e:81195**
— Energy momentum tensor and marginal deformations in open string field theory. (English summary) **2005h:81317**
Serban, Didina *see* **Kostov, Ivan K. et al., 2005f:83073**
Setare, Mohammad R. Logarithmic correction to the Cardy-Verlinde formula in Achúcarro-Oritz black hole. (English summary) [Logarithmic correction to the Cardy-Verlinde formula in Achúcarro-Ortiz black hole] **2005c:83043**
Shenker, Stephen *see* **Hubeny, Veronika E. et al., 2005m:83089**
Shih, David *see* **Kutasov, David et al., 2005h:81299** *and* **Seiberg, Nathan, 2005m:81266**
Shiraishi, Jun'ichi *see* **Sakamoto, Reiho et al., 2005k:81109**
Silva, Pedro J. *see* **Caldarelli, Marco M., 2005h:83223**
Simon, Barry ★ Functional integration and quantum physics. **2005f:81003**
Siopsis, George Unitarity, quasi-normal modes and the AdS_3/CFT_2 correspondence. (English summary) **2005j:83079**
Šnobl, Libor *see* **Hlavatý, Ladislav, 2005m:81257**
Solodukhin, S. N. Horizon state, Hawking radiation, and boundary Liouville model. (English summary) **2005b:83066**
Staudacher, Matthias *see* **Beisert, Niklas et al., 2005g:81224**
Stevens, Laura J. *see* **Felder, Giovanni et al., 2005h:33035**
Stewart, Steven *see* **Lynker, Monika et al., 2005g:11104**
Stolz, Stephan (*with* Teichner, Peter) What is an elliptic object? **2005m:58048**
Strominger, Andrew (*with* Takayanagi, Tadashi) Correlators in timelike bulk Liouville theory. (English summary) **2005c:81182**
— A matrix model for AdS_2. (English summary) **2005e:81201**
Sugawara, Yuji *see* **Nakayama, Yu et al., 2005h:81307**
Sugiyama, Katsuyuki *see* **Nakayama, Noriko, 2005i:83132**
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Takayanagi, Hiromitsu *see* **Nakayama, Yu et al., 2005h:81307** *and* **2005k:81256**
Takayanagi, Tadashi Notes on D-branes in 2D type 0 string theory. (English summary) **2005f:81205**
— *see also* **Strominger, Andrew, 2005c:81182**
Takebe, Takashi Trigonometric degeneration and orbifold Wess-Zumino-Witten model. I. (English summary) **2005h:81159**
Takemae, S. *see* **Gunaydin, Murat**
Takeyama, Yoshihiro *see* **Jimbo, Michio et al., 2005c:81086**
Talalov, S. V. Classical interacting fields: a model outside the Lagrangian formulation. (Russian. English and Russian summaries) **2005i:81093**
Taormina, Anne *see* **Chattaraputi, Auttakit et al., 2005b:81134**
Tateo, Roberto *see* **Dorey, Patrick et al., 2005d:81177**
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Teraguchi, Shunsuke *see* **Kogetsu, Hisashi, 2005k:81166**
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Todorov, Ivan T. *see* **Nikolov, Nikolai Marinov, 2005j:81103**
Tonni, Erik *see* **Menotti, Pietro, 2005c:81129**
Toumbas, Nicolaos (*with* Troost, Jan) A time-dependent brane in a cosmological background. (English summary) **2005i:81146**
Troost, Jan A note on causality in the bulk and stability on the boundary. (English summary) **2005a:81234**
— *see also* **Toumbas, Nicolaos, 2005i:81146**
Tseĭtlin, A. M. *see* **Kulish, Petr Petrovich, 2005f:81093** *and* **2005k:81116**
Tseytlin, A. A. *see* **Beisert, Niklas et al., 2005g:81224**
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ter Veldhuis, T. *see* **Clark, Thomas E. et al., 2005j:81134**
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Yin, Xi Matrix models, integrable structures and T-duality of type 0 string theory. (English summary) **2005k:81275**
Yoneya, Tamiaki What is 'holography' in the plane-wave limit of the AdS_5/SYM_4 correspondence? (English summary) **2005j:83126**
Yoshida, Masaaki A geometric interpretation of the Selberg integral. (English summary) **2005b:32032**
Zamaklar, Marija *see* **Peeters, Kasper, 2005k:81258**
Zhang, Yao-Zhong Coherent state construction of representations of osp(2|2) and primary fields of osp(2|2) conformal field theory. (English summary) **2005c:81081**

Items listed otherwise than by author

Chernogolovka ★ Proceedings of 6th International Workshop on Conformal Field Theory and Integrable Models.
Proceedings:
Workshop on Conformal Field Theory and Integrable Models, 6th International
★ Proceedings of 6th International Workshop on Conformal Field Theory and Integrable Models.

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Aganagic, Mina (*with* Mariño, Marcos; Vafa, Cumrun) All loop topological string amplitudes from Chern-Simons theory. (English summary) **2005g:81284**
— (*with* Klemm, Albrecht; Mariño, Marcos; Vafa, Cumrun) Matrix model as a mirror of Chern-Simons theory. (English summary) **2005f:81222**
Amaral, R. L. P. G. *see* **Ventura, O. S. et al., 2005k:81292**
Beasley, Chris (*with* Witten, Edward) Residues and world-sheet instantons. (English summary) **2005f:81223**
Boldo, José Luís (*with* Constantinidis, Clisthenis P.; Piguet, Olivier; Gieres, François; Lefrançois, Matthieu) Observables in topological Yang-Mills theories. (English summary) **2005f:81224**
— (*with* Constantinidis, Clisthenis P.; Gieres, François; Lefrançois, Matthieu; Piguet, Olivier) Observables in topological theories: a superspace formulation. (English summary) **2005g:81285**
Borhade, Pravina (*with* Ramadevi, P.; Sarkar, Tapobrata) $U(N)$ framed links, three-manifold invariants, and topological strings. (English summary) **2005c:81190**
Bouchard, Vincent (*with* Florea, Bogdan; Mariño, Marcos) Counting higher genus curves with crosscaps in Calabi-Yau orientifolds. (English summary) **2005m:81284**
Broda, Bogusław 3-dimensional scalar-vector dual of topological σ-model. (English summary) **2005g:81286**
Bruzzo, Ugo (*with* Fucito, Francesco; Morales, José Francisco; Tanzini, Alessandro) Multi-instanton calculus and equivariant cohomology. (English summary) **2005a:81203**
Buffenoir, E. (*with* Henneaux, Marc; Noui, K.; Roche, Ph.) Hamiltonian analysis of Plebanski theory. (English summary) **2005h:81336**
Buffon, L. O. *see* **Ventura, O. S. et al., 2005k:81292**
Cattaneo, Alberto S. (*with* Fröhlich, Jürg; Pedrini, Bill) Topological field theory interpretation of string topology. (English summary) **2005a:81204**
— (*with* Felder, Giovanni) Coisotropic submanifolds in Poisson geometry and branes in the Poisson sigma model. (English summary) **2005m:81285**
Chang, Jen-Hsu (*with* Tu, Ming-Hsien) Topological field theory approach to the generalized Benney hierarchy. (English summary) **2005m:81286**
Constantinidis, Clisthenis P. (*with* Piguet, Olivier; Spalenza, Wesley) Superspace gauge fixing of topological Yang-Mills theories. (English summary) **2005e:81214**
— *see also* **Boldo, José Luís et al., 2005f:81224** *and* **2005g:81285**
Corichi, Alejandro (*with* Cortez, Jerónimo) Note on self-duality and the Kodama state. (English summary) **2005e:81215**
Cortez, Jerónimo *see* **Corichi, Alejandro, 2005e:81215**
Costa, J. V. *see* **Ventura, O. S. et al., 2005k:81292**
Das, Sumit R. (*with* Gómez, César) Open-closed duality and double scaling. (English summary) **2005h:81337**
Diaconescu, Duiliu-Emanuel (*with* Florea, Bogdan; Grassi, Antonella) Geometric transitions and open string instantons. (English summary) **2005a:81205**
— (*with* Florea, Bogdan; Grassi, Antonella) Geometric transitions, del Pezzo surfaces and open string instantons. (English summary) **2005a:81206**
Duan, Yi Shi *see* **Zhang, Peng-Ming et al., 2005h:81339**
Eguchi, Tohru (*with* Kanno, Hiroaki) Topological strings and Nekrasov's formulas. (English summary) **2005b:81178**
Felder, Giovanni *see* **Cattaneo, Alberto S., 2005m:81285**
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Flume, Rainald (*with* Fucito, Francesco; Morales, José Francisco; Poghossian, Rubik) Matone's relation in the presence of gravitational couplings. (English summary) **2005h:81338**
Freedman, Michael Hartley (*with* Nayak, Chetan; Shtengel, Kirill; Walker, Kevin; Wang, Zhenghan) A class of P, T-invariant topological phases of interacting electrons. (English summary) **2005f:81225**
Fröhlich, Jürg *see* **Cattaneo, Alberto S. et al., 2005a:81204**
Fucito, Francesco *see* **Bruzzo, Ugo et al., 2005a:81203** *and* **Flume, Rainald et al., 2005h:81338**
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Gieres, François *see* **Boldo, José Luís et al., 2005f:81224** *and* **2005g:81285**
Gomes, Márcio A. M. (*with* Landim, R. R.) Duality and field redefinition in three dimensions. (English summary) **2005m:81287**
Gómez, César *see* **Das, Sumit R., 2005h:81337**
Grassi, Antonella *see* **Diaconescu, Duiliu-Emanuel et al., 2005a:81205** *and* **2005a:81206**
Grünberg, Daniel B. Integrality of open instantons numbers. (English summary) **2005g:81287**
Halmagyi, Nick (*with* Yasnov, Vadim) Chern-Simons matrix models and unoriented strings. (English summary) **2005f:81226**

— (*with* Okuda, Takuya; Yasnov, Vadim) Large-N duality, lens spaces and the Chern-Simons matrix model. (English summary) **2005j:81172**
Henneaux, Marc *see* **Buffenoir, E. et al., 2005h:81336**
Hofman, Christiaan On the open-closed B-model. (English summary) **2005d:81317**
Ikeda, Noriaki[2] (*with* Izawa, Ken-Iti) Dimensional reduction of nonlinear gauge theories. (English summary) **2005m:81288**
Ita, Harald (*with* Nieder, Harald; Oz, Yaron; Sakai, Tadakatsu) Topological B-model, matrix models, $\hat{c} = 1$ strings and quiver gauge theories. (English summary) **2005e:81216**
Izawa, Ken-Iti *see* **Ikeda, Noriaki**[2], **2005m:81288**
Kanno, Hiroaki *see* **Eguchi, Tohru, 2005b:81178**
Kapustin, Anton (*with* Li, Yi[9]) Topological correlators in Landau-Ginzburg models with boundaries. (English summary) **2005b:81179a**
— (*with* Li, Yi[9]) D-branes in Landau-Ginzburg models and algebraic geometry. (English summary) **2005b:81179b**
— Topological strings on noncommutative manifolds. (English summary) **2005f:81227**
— Gauge theory, topological strings, and S-duality. (English summary) **2005k:81288**
Kato, Junji[2] (*with* Kawamoto, Noboru; Uchida, Yukiya) Twisted superspace for $N = D = 2$ super BF and Yang-Mills with Dirac-Kähler fermion mechanism. (English summary) **2005f:81228**
Kawai, Toshiya String and vortex. (English summary) **2005f:81229**
Kawamoto, Noboru *see* **Kato, Junji**[2] **et al., 2005f:81228**
Klemm, Albrecht *see* **Aganagic, Mina et al., 2005f:81222**
Konishi, Yukiko (*with* Sakai, Kazuhiro[2]) Asymptotic form of Gopakumar-Vafa invariants from instanton counting. (English summary) **2005g:81288**
Krasnov, Kirill On holomorphic factorization in asymptotically AdS 3D gravity. (English summary) **2005c:81191**
Landim, R. R. *see* **Gomes, Márcio A. M., 2005m:81287**
Lefrançois, Matthieu *see* **Boldo, José Luís et al., 2005f:81224** *and* **2005g:81285**
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Li, Yi[9] *see* **Kapustin, Anton, 2005b:81179a** *and* **2005b:81179b**
Liu, Xin[5] *see* **Zhang, Peng-Ming et al., 2005h:81339**
Mariño, Marcos Enumerative geometry and knot invariants. (English summary) **2005k:81289**
— Chern-Simons theory, matrix integrals, and perturbative three-manifold invariants. (English summary) **2005k:81290**
— *see also* **Aganagic, Mina et al., 2005f:81222**; **2005g:81284** *and* **Bouchard, Vincent et al., 2005m:81284**
Moore, Gregory W. K-theory from a physical perspective. (English summary) **2005m:81289**
Morales, José Francisco *see* **Bruzzo, Ugo et al., 2005a:81203** *and* **Flume, Rainald et al., 2005h:81338**
Mülsch, D. (*with* Geyer, Bodo) Cohomological extension of Spin(7)-invariant super-Yang-Mills theory in eight dimensions. (English summary) **2005c:81192**
Nayak, Chetan *see* **Freedman, Michael Hartley et al., 2005f:81225**
Nazarenko, A. V. Quantization of reduced Chern-Simons gravity with a source. (English summary) **2005k:81291**
Nieder, Harald *see* **Ita, Harald et al., 2005e:81216**
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Piguet, Olivier *see* **Constantinidis, Clisthenis P. et al., 2005e:81214**; **Boldo, José Luís et al., 2005f:81224** *and* **2005g:81285**
Poghossian, Rubik *see* **Flume, Rainald et al., 2005h:81338**
Popov, Alexander D. (*with* Wolf, Martin) Topological B-model on weighted projective spaces and self-dual models in four dimensions. (English summary) **2005m:81290**
Ramadevi, P. *see* **Borhade, Pravina et al., 2005c:81190**
Roche, Ph. *see* **Buffenoir, E. et al., 2005h:81336**
Rogers, Alice Killing vectors and topological quantum theory. (English summary) **2005m:81291**
Roiban, Radu (*with* Volovich, Anastasia) All conjugate-maximal-helicity-violating amplitudes from topological open string theory in twistor space. (English summary) **2005i:81156**
Sakai, Kazuhiro[2] *see* **Konishi, Yukiko, 2005g:81288**
Sakai, Tadakatsu *see* **Ita, Harald et al., 2005e:81216**
Sämann, Christian The topological B-model on fattened complex manifolds and subsectors of $\mathcal{N} = 4$ self-dual Yang-Mills theory. (English summary) **2005m:81292**
Sarkar, Tapobrata *see* **Borhade, Pravina et al., 2005c:81190**
Sasaki, Toru[2] Hecke operator and S-duality of $\mathcal{N} = 4$ super Yang-Mills for ADE gauge group on $K3$. (English summary) **2005d:81318**
Shtengel, Kirill *see* **Freedman, Michael Hartley et al., 2005f:81225**
Spalenza, Wesley *see* **Constantinidis, Clisthenis P. et al., 2005e:81214**
Sullivan, Dennis Open and closed string field theory interpreted in classical algebraic topology. (English summary) **2005g:81289**
Tachikawa, Yuji Five-dimensional Chern-Simons terms and Nekrasov's instanton counting. (English summary) **2005e:81217**
Tanzini, Alessandro *see* **Bruzzo, Ugo et al., 2005a:81203**
Tu, Ming-Hsien *see* **Chang, Jen-Hsu, 2005m:81286**
Uchida, Yukiya *see* **Kato, Junji**[2] **et al., 2005f:81228**
Vafa, Cumrun *see* **Aganagic, Mina et al., 2005f:81222** *and* **2005g:81284**
Ventura, O. S. (*with* Amaral, R. L. P. G.; Costa, J. V.; Buffon, L. O.; Lemes, V. E. R.) A new picture on the $(3 + 1)$D topological mass mechanism. (English summary) **2005k:81292**
Volovich, Anastasia *see* **Roiban, Radu, 2005i:81156**
Walker, Kevin *see* **Freedman, Michael Hartley et al., 2005f:81225**
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Yasnov, Vadim *see* **Halmagyi, Nick et al., 2005f:81226** *and* **2005j:81172**
Zhang, Peng-Ming (*with* Duan, Yi Shi; Liu, Xin[5]) Knots in the non-abelian Chern-Simons theory. (English summary) **2005h:81339**

Items with secondary classifications in 81T45

Aoyama, Shogo (*with* Masuda, Takahiro) The Whitham deformation of the Dijkgraaf-Vafa theory. (English summary) **2005e:81223**
Barrett, John W.[2] Geometrical measurements in three-dimensional quantum gravity. (English summary) **2005b:83034**
Benedetti, Riccardo About a quantum field theory for 3D gravity. (English summary) **2005g:83044**
Castelo Ferreira, P. (*with* Kogan, I. I.; Szabo, Richard J.) D-branes in topological membranes. (English summary) **2005d:81310**
Castro, Carlos[1] Moyal deformations of gravity via SU(∞) gauge theories, branes and topological Chern-Simons matrix models. (English summary) **2005j:83072**
Catterall, Simon (*with* Ghadab, Sofiane) Lattice sigma models with exact supersymmetry. (English summary) **2005d:81267**
Chruściński, Dariusz Quantization conditions and p-form electrodynamics. (English summary) **2005b:81201**
Conte, Robert (*with* Gandarias-Núñez, M. L.) Symmetry reductions of a particular set of equations of associativity in two-dimensional topological field theory. (English summary) **2005j:53104**
Curtright, Thomas *see* **Zachos, Cosmas K., 2005j:81086**
Dijkgraaf, Robbert (*with* Sinkovics, Annamaria; Temürhan, Mine) Matrix models and gravitational corrections. (English summary) **2005i:81161**
Dong, Chongying (*with* Mason, Geoffrey) Rational vertex operator algebras and the effective central charge. **2005k:17034**
Flume, Rainald (*with* Poghossian, Rubik) Instanton calculations in $N = 2$ super Yang-Mills theory. (English summary) **2005g:81302**
Freidel, Laurent (*with* Krasnov, Kirill) 2D conformal field theories and holography. (English summary) **2005i:81151**
Fuchs, Jürgen (*with* Runkel, Ingo; Schweigert, Christoph) TFT construction of RCFT correlators. II. Unoriented world sheets. (English summary) **2005a:81197**
— (*with* Runkel, Ingo; Schweigert, Christoph) TFT construction of RCFT correlators. III. Simple currents. (English summary) **2005e:81209**
Gandarias-Núñez, M. L. *see* **Conte, Robert, 2005j:53104**
Ghadab, Sofiane *see* **Catterall, Simon, 2005d:81267**
Ghoshal, Debashis (*with* Mukhi, Sunil; Murthy, Sameer) Liouville D-branes in two-dimensional strings and open string field theory. (English summary) **2005j:81168**
Grassi, Antonella Open-closed string dualities in geometry and modified open Gromov-Witten invariants. (English summary) **2005k:14118**
Grassi, Pietro Antonio (*with* Policastro, G.; van Nieuwenhuizen, Peter) On the BRST cohomology of superstrings with/without pure spinors. (English summary) **2005h:81388**
Guo, Han-Ying *see* **Ling, Yi**[3] **et al., 2005j:83136**
Hahn, Atle Chern-Simons models on $S^2 \times S^1$, torus gauge fixing, and link invariants. I. (English summary) **2005b:53036**
Hansson, Thors Hans (*with* Oganesyan, Vadim; Sondhi, S. L.) Superconductors are topologically ordered. (English summary) **2005i:82064**
Helayël-Neto, J. A. *see* **Spalenza, Wesley et al., 2005c:81215**
Herzog, Christopher P. Seiberg duality is an exceptional mutation. (English summary) **2005m:81256**
Hofman, Christiaan (*with* Park, Jae-Suk) BV quantization of topological open membranes. (English summary) **2005f:81255**
Hosono, Shinobu Counting BPS states via holomorphic anomaly equations. (English summary) **2005h:14133**
Kapustin, Anton The geometry of A-branes. (English summary) **2005i:53114**
Kock, Joachim ★ Frobenius algebras and 2D topological quantum field theories. **2005a:57028**
Kogan, I. I. *see* **Castelo Ferreira, P. et al., 2005d:81310**
Krasnov, Kirill *see* **Freidel, Laurent, 2005i:81151**
Ling, Yi[3] (*with* Tung, Roh-Suan; Guo, Han-Ying) Supergravity and Yang-Mills theories as generalized topological fields with constraints. (English summary) **2005j:83136**
Livine, Etera R. (*with* Oeckl, Robert) Three-dimensional quantum supergravity and supersymmetric spin foam models. (English summary) **2005d:83050**
— (*with* Perez, Alejandro; Rovelli, Carlo) 2D manifold-independent spinfoam theory. (English summary) **2005c:83016**
Mariño, Marcos An introduction to Donaldson-Witten theory. (English summary) **2005a:57030**
Mason, Geoffrey *see* **Dong, Chongying, 2005k:17034**
Masuda, Takahiro *see* **Aoyama, Shogo, 2005e:81223**
Miković, A. Quantum field theory of open spin networks and new spin foam models. (English summary) **2005a:83036**
Mukhi, Sunil *see* **Ghoshal, Debashis et al., 2005j:81168**
Murthy, Sameer *see* **Ghoshal, Debashis et al., 2005j:81168**
Nekrasov, Nikita A. Seiberg-Witten prepotential from instanton counting. (English summary) **2005i:53109**
Ney, Wander G. *see* **Spalenza, Wesley et al., 2005c:81215**
van Nieuwenhuizen, Peter *see* **Grassi, Pietro Antonio et al., 2005h:81388**
Oeckl, Robert *see* **Livine, Etera R., 2005d:83050**
Oganesyan, Vadim *see* **Hansson, Thors Hans et al., 2005i:82064**
Okuda, Takuya (*with* Ooguri, Hirosi) D-branes and phases on string worldsheet. (English summary) **2005k:81257**
Ooguri, Hirosi *see* **Okuda, Takuya, 2005k:81257**
Park, Jae-Suk *see* **Hofman, Christiaan, 2005f:81255**
Perez, Alejandro *see* **Livine, Etera R. et al., 2005c:83016**
Poghossian, Rubik *see* **Flume, Rainald, 2005g:81302**
Policastro, G. *see* **Grassi, Pietro Antonio et al., 2005h:81388**
Roiban, Radu (*with* Spradlin, Marcus; Volovich, Anastasia) Tree-level S matrix of Yang-Mills theory. (English summary) **2005h:81239**
Rovelli, Carlo *see* **Livine, Etera R. et al., 2005c:83016**
Runkel, Ingo *see* **Fuchs, Jürgen et al., 2005a:81197** *and* **2005e:81209**

Sawin, Stephen F. Three-dimensional 2-framed TQFTs and surgery. (English summary) **2005j:57021**
Schweigert, Christoph *see* **Fuchs, Jürgen et al., 2005a:81197** *and* **2005e:81209**
Segal, Graeme The definition of conformal field theory. **2005h:81334**
Sinkovics, Annamaria *see* **Dijkgraaf, Robbert et al., 2005i:81161**
Sondhi, S. L. *see* **Hansson, Thors Hans et al., 2005i:82064**
Spalenza, Wesley (*with* Ney, Wander G.; Helayël-Neto, J. A.) Anti-symmetric rank-two tensor matter field on superspace for $N_T = 2$. (English summary) **2005c:81215**
Spradlin, Marcus *see* **Roiban, Radu et al., 2005h:81239**
Sugino, Fumihiko Super Yang-Mills theories on the two-dimensional lattice with exact supersymmetry. (English summary) **2005b:81123**
Szabo, Richard J. *see* **Castelo Ferreira, P. et al., 2005d:81310**
Temürhan, Mine *see* **Dijkgraaf, Robbert et al., 2005i:81161**
Tung, Roh-Suan *see* **Ling, Yi[3] et al., 2005j:83136**
Volovich, Anastasia *see* **Roiban, Radu et al., 2005h:81239**
Yamaguchi, Satoshi[2] (*with* Yau, Shing-Tung) Topological string partition functions as polynomials. (English summary) **2005k:14122**
Yau, Shing-Tung *see* **Yamaguchi, Satoshi[2], 2005k:14122**
Zachos, Cosmas K. (*with* Curtright, Thomas) Branes, quantum Nambu brackets and the hydrogen atom. (English summary) **2005j:81086**

81T50 Anomalies

Adams, David H. (*with* Bietenholz, Wolfgang) Axial anomaly and index of the overlap hypercube operator. (English summary) **2005b:81180**
Alday, Luis Fernando Gravitational F-terms through Konishi anomaly. (English summary) **2005b:81181**
Angulo, Maria E. (*with* Bailin, David; Yang, Huan-Xiong) Tadpole and anomaly cancellation conditions in D-brane orbifold models. (English summary) **2005d:81319**
Argurio, Riccardo Chiral gauge theories and the Konishi anomaly. (English summary) **2005b:81182**
Armoni, Adi Witten-Veneziano from Green-Schwarz. (English summary) **2005d:81320**
Bailin, David *see* **Angulo, Maria E. et al., 2005d:81319**
Bañados, Máximo (*with* Schwimmer, Adam; Theisen, Stefan) Chern-Simons gravity and holographic anomalies. (English summary) **2005d:81321**
Bär, Oliver (*with* Campos, Isabel) Global anomalies in chiral lattice gauge theory. (English summary) **2005h:81340**
Berman, David S. (*with* Harvey, Jeffrey A.) The self-dual string and anomalies in the M5-brane. (English summary) **2005m:81293**
Bidder, Steven J. (*with* Bjerrum-Bohr, N. E. J.; Dixon, Lance J.; Dunbar, David C.) $N = 1$ supersymmetric one-loop amplitudes and the holomorphic anomaly of unitarity cuts. (English summary) **2005h:81341**
Bietenholz, Wolfgang *see* **Adams, David H., 2005b:81180**
Bilal, Adel (*with* Metzger, Steffen) Anomalies in M-theory on singular G_2-manifolds. (English summary) **2005e:81218**
Bjerrum-Bohr, N. E. J. *see* **Bidder, Steven J. et al., 2005h:81341**
Campos, Isabel *see* **Bär, Oliver, 2005h:81340**
Dixon, Lance J. *see* **Bidder, Steven J. et al., 2005h:81341**
Dunbar, David C. *see* **Bidder, Steven J. et al., 2005h:81341**
Evans, Jonathan M. (*with* Kagan, David; Young, Charles A. S.; MacKay, Niall J.) Quantum, higher-spin, local charges in symmetric space sigma models. (English summary) **2005m:81294**
Fujikawa, Kazuo (*with* Suzuki, Hiroshi) ★ Path integrals and quantum anomalies. **2005g:81290**
— (*with* Suzuki, Hiroshi) Anomalies, local counter terms and bosonization. (English summary) **2005f:81230**
Groot Nibbelink, Stefan (*with* Hillenbach, Mark; Kobayashi, Tatsuo; Walter, Martin G. A.) Localization of heterotic anomalies on various hypersurfaces of $T^6/\mathbb{Z}_4$. (English summary) **2005f:81231**
Gürsoy, Umut (*with* Hartnoll, Sean A.; Portugues, Rubén) The chiral anomaly from M-theory. (English summary) **2005e:81219**
Gustavsson, Andreas Conformal anomaly of Wilson surface observables—a field theoretical computation. (English summary) **2005d:81322**
Hartnoll, Sean A. *see* **Gürsoy, Umut et al., 2005e:81219**
Harvey, Jeffrey A. *see* **Berman, David S., 2005m:81293**
Higasida, Yoji (*with* Yajima, Satoshi; Kubota, Shin-Ichiro; Tokuo, Shoshi; Kamo, Yuki) Contributions of four-gravitino interactions to Weyl anomaly in $d = 4$, $N = 1$ supergravity. (English summary) **2005g:81291**
Hillenbach, Mark *see* **Groot Nibbelink, Stefan et al., 2005f:81231**
Kadoh, Daisuke (*with* Kikukawa, Yoshio; Nakayama, Yoichi) Solving the local cohomology problem in U(1) chiral gauge theories within a finite lattice. (English summary) **2005k:81293**
— (*with* Kikukawa, Yoshio) A numerical solution to the local cohomology problem in U(1) chiral gauge theories. (English summary) **2005k:81294**
Kagan, David *see* **Evans, Jonathan M. et al., 2005m:81294**
Kamo, Yuki *see* **Higasida, Yoji et al., 2005g:81291**
Kikukawa, Yoshio *see* **Kadoh, Daisuke et al., 2005k:81293** *and* **2005k:81294**
Klinkhamer, Frans R. (*with* Rupp, Christian W.) A sphaleron for the non-abelian anomaly. (English summary) **2005h:81342**
Kobayashi, Tatsuo *see* **Groot Nibbelink, Stefan et al., 2005f:81231**
Kubota, Shin-Ichiro *see* **Higasida, Yoji et al., 2005g:81291**
Landsteiner, Karl Konishi anomalies and curves without adjoints. (English summary) **2005f:81232**
MacKay, Niall J. *see* **Evans, Jonathan M. et al., 2005m:81294**
Matsui, Kosuke (*with* Suzuki, Hiroshi) Anomalous gauge theories revisited. (English summary) **2005k:81295**
Metzger, Steffen *see* **Bilal, Adel, 2005e:81218**
Milton, Kimball A. Anomalies in $\mathcal{PT}$-symmetric quantum field theory. (English summary) **2005c:81193**
Moss, Ian G. Zeta functions, anomalies and stable branes. (*see* **2005j:83002**)
Nakayama, Yoichi *see* **Kadoh, Daisuke et al., 2005k:81293**
Portugues, Rubén *see* **Gürsoy, Umut et al., 2005e:81219**
Rupp, Christian W. *see* **Klinkhamer, Frans R., 2005h:81342**
Schwimmer, Adam *see* **Bañados, Máximo et al., 2005d:81321**
Scrucca, Claudio A. (*with* Serone, Marco) Anomalies in field theories with extra dimensions. (English summary) **2005e:81220**
Serone, Marco *see* **Scrucca, Claudio A., 2005e:81220**
Shizuya, K. Superfield formulation of central charge anomalies in two-dimensional supersymmetric theories with solitons. (English summary) **2005d:81323**
— Topological-charge anomalies in supersymmetric theories with domain walls. (English summary) **2005h:81343**
Sparks, James Anomalous couplings in M-theory and string theory. (English summary) **2005d:81324**
Suzuki, Hiroshi *see* **Fujikawa, Kazuo, 2005f:81230; 2005g:81290** *and* **Matsui, Kosuke, 2005k:81295**
Theisen, Stefan *see* **Bañados, Máximo et al., 2005d:81321**
Tokuo, Shoshi *see* **Higasida, Yoji et al., 2005g:81291**
Toppan, Francesco Central extensions, classical non-equivariant maps and residual symmetries. (English summary) **2005g:81292**
Walter, Martin G. A. *see* **Groot Nibbelink, Stefan et al., 2005f:81231**
Yajima, Satoshi *see* **Higasida, Yoji et al., 2005g:81291**
Yang, Huan-Xiong *see* **Angulo, Maria E. et al., 2005d:81319**
Young, Charles A. S. *see* **Evans, Jonathan M. et al., 2005m:81294**

Items with secondary classifications in 81T50

Aldazabal, Gerardo (*with* Ibáñez, Luis E.; Uranga, Angel M.) Solving the strong CP problem via Wess-Zumino terms. (English summary) **2005a:81262**
Argurio, Riccardo (*with* Ferretti, Gabriele; Heise, Rainer) An introduction to supersymmetric gauge theories and matrix models. (English summary) **2005k:81296**
(Asorey, Manuel) *see* **Renormalization group and anomalies in gravity and cosmology**
Banerjee, Rabin (*with* Lee, Choonkyu; Yang, Hyun Seok) Seiberg-Witten-type maps for currents and energy-momentum tensors in noncommutative gauge theories. (English summary) **2005h:81391**
Barbón, José L. F. (*with* Hoyos, Carlos; Mateos, David; Myers, Robert C.) The holographic life of the η'. (English summary) **2005h:81424**
Becker, Katrin (*with* Becker, Melanie; Dasgupta, Keshav; Green, Paul S.; Sharpe, Eric) Compactifications of heterotic strings of non-Kähler complex manifolds. II. (English summary) **2005h:81258**
Becker, Melanie *see* **Becker, Katrin et al., 2005h:81258**
Bertolami, O. (*with* Páramos, J.) The Pioneer anomaly in the context of the braneworld scenario. (English summary) **2005a:83005**
Bolognesi, Stefano The holomorphic tension of vortices. (English summary) **2005k:81303**
Bytsenko, Andrei A. (*with* Elizalde, Emilio; Ulhoa, R. A.) Forms on vector bundles over hyperbolic manifolds and the trace anomaly. (English summary) **2005d:58055**
Cachazo, Freddy (*with* Svrček, Peter; Witten, Edward) Gauge theory amplitudes in twistor space and holomorphic anomaly. (English summary) **2005k:81184**
Camblong, Horacio E. (*with* Ordóñez, Carlos R.) Anomaly in conformal quantum mechanics: from molecular physics to black holes. (English summary) **2005d:81165**
Cardona, Alexander (*with* Ducourtioux, Catherine; Paycha, Sylvie) From tracial anomalies to anomalies in quantum field theory. (English summary) **2005b:58037**
Cariglia, Marco (*with* Lechner, Kurt) Intersecting D-branes, Chern-kernels and the inflow mechanism. (English summary) **2005j:83109**
Casadio, Roberto Holography and trace anomaly: what is the fate of (brane-world) black holes? (English summary) **2005e:83043**
Casero, Roberto (*with* Trincherini, Enrico) Quivers via anomaly chains. (English summary) **2005d:81330**
Cognola, Guido (*with* Elizalde, Emilio; Zerbini, Sergio) Dirac functional determinants in terms of the eta invariant and the noncommutative residue. (English summary) **2005c:58059**
Cvetič, Mirjam (*with* Nojiri, Shin'ichi; Odintsov, Sergei D.) Cosmological anti-de Sitter space-times and time-dependent AdS/CFT correspondence. (English summary) **2005c:83072**
Dasgupta, Keshav *see* **Becker, Katrin et al., 2005h:81258**
Ducourtioux, Catherine *see* **Cardona, Alexander et al., 2005b:58037**
Dudas, Emilian (*with* Gherghetta, Tony; Groot Nibbelink, Stefan) Vector-tensor duality in the five dimensional supersymmetric Green-Schwarz mechanism. (English summary) **2005h:81362**
Elizalde, Emilio *see* **Cognola, Guido et al., 2005c:58059** *and* **Bytsenko, Andrei A. et al., 2005d:58055**
Evslin, Jarah A torsion correction to the RR 4-form fieldstrength. (English summary) **2005i:81126**
Ferretti, Gabriele *see* **Argurio, Riccardo et al., 2005k:81296**
Gherghetta, Tony *see* **Dudas, Emilian et al., 2005h:81362**
Green, Paul S. *see* **Becker, Katrin et al., 2005h:81258**
Groot Nibbelink, Stefan *see* **Dudas, Emilian et al., 2005h:81362**
Hayakawa, Masashi (*with* Ishibashi, Nobuyuki) Perturbative dynamics of matrix string for the membrane. (English summary) **2005b:81142**
Heise, Rainer *see* **Argurio, Riccardo et al., 2005k:81296**
Hollands, Stefan (*with* Wald, Robert M.) Quantum field theory is not merely quantum mechanics applied to low energy effective degrees of freedom. (English summary) **2005g:81201**
Hoyos, Carlos *see* **Barbón, José L. F. et al., 2005h:81424**
Ibáñez, Luis E. *see* **Aldazabal, Gerardo et al., 2005a:81262**
Inagaki, Teruaki (*with* Suzuki, Hiroshi) Majorana and Majorana-Weyl fermions in lattice gauge theory. (English summary) **2005f:81164**
Ishibashi, Nobuyuki *see* **Hayakawa, Masashi, 2005b:81142**
Kachkachi, Mohamed μ-holomorphy conditions: compatibility and physical applications. (English summary) **2005a:81198**
— Geometrical formulation of the conformal Ward identity. (English summary) **2005a:81199**

Kriz, Igor (*with* Sati, Hisham) M-theory, type IIA superstrings, and elliptic cohomology. (English summary) **2005i:58029**
Kucheryavīĭ, V. Ī. Renormalization, Ward identities, symmetries, and quantum anomalies: logical aspect. (English summary)
Lechner, Kurt Intersecting M2- and M5-branes. (English summary) **2005b:81151**
— *see also* **Cariglia, Marco, 2005j:83109**
Lee, Choonkyu *see* **Banerjee, Rabin et al., 2005h:81391**
Liccardo, Antonella (*with* Marotta, Raffaele; Pezzella, Franco) Anomalies and tadpoles in open/closed string duality. (English summary) **2005c:81172**
Lüscher, Martin Chiral gauge theories on the lattice with exact gauge invariance. (English summary) **2005m:81224**
Marotta, Raffaele *see* **Liccardo, Antonella et al., 2005c:81172**
Mateos, David *see* **Barbón, José L. F. et al., 2005h:81424**
Myers, Robert C. *see* **Barbón, José L. F. et al., 2005h:81424**
Nesterov, A. I. Three-cocycles, nonassociative gauge transformations and Dirac's monopole. (English summary) **2005d:81248**
Nojiri, Shin'ichi *see* **Cvetič, Mirjam et al., 2005c:83072**
Odintsov, Sergei D. *see* **Cvetič, Mirjam et al., 2005c:83072**
Ordóñez, Carlos R. *see* **Camblong, Horacio E., 2005d:81165**
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Pezzella, Franco *see* **Liccardo, Antonella et al., 2005c:81172**
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Items listed otherwise than by author

Ouro Preto ★ Renormalization group and anomalies in gravity and cosmology.
Renormalization group and anomalies in gravity and cosmology ★ Renormalization group and anomalies in gravity and cosmology.

81T60 Supersymmetric field theories

Abdalla, M. C. B. (*with* Bytsenko, Andrei A.; Guimarães, M. E. X.) Black hole entropy associated with the supersymmetric sigma model. (English summary) **2005f:81233**
Abe, Hiroyuki (*with* Choi, Kiwoon; Jeong, Kwang-Sik; Okumura, Ken-ichi) Scherk-Schwarz supersymmetry breaking for quasi-localized matter fields and supersymmetry flavor violation. (English summary) **2005g:81293**
Achúcarro, Ana (*with* Urrestilla, Jon) F-term strings in the Bogomolnyi limit are also BPS states. (English summary) **2005h:81344**
Adam, Ido (*with* Oz, Yaron) Gravitational F-terms of $\mathcal{N}=1$ supersymmetric gauge theories. (English summary) **2005h:81345**
Aganagic, Mina (*with* Intriligator, Ken; Vafa, Cumrun; Warner, Nicholas P.) The glueball superpotential. (English summary) **2005h:81346**
Agarwal, Abhishek (*with* Rajeev, S. G.) The dilatation operator of $\mathcal{N}=4$ SYM and classical limits of spin chains and matrix models. (English summary) **2005e:81221**
Ahl Laamara, R. (*with* Haddou, Malika Ait Ben; Belhaj, Adil; Drissi, L. B.; Saidi, El Hassan) RG cascades in hyperbolic quiver gauge theories. (English summary) **2005f:81234**
Ahn, Changhyun (*with* Feng, Bo[1]; Ookouchi, Yutaka) Phases of $\mathcal{N}=1$ $\mathrm{SO}(N_c)$ gauge theories with flavors. (English summary) **2005b:81183**
— (*with* Ookouchi, Yutaka) More on $\mathcal{N}=1$ matrix model curve for arbitrary N. (English summary) **2005a:81207**
— (*with* Feng, Bo[1]; Ookouchi, Yutaka; Shigemori, Masaki) Supersymmetric gauge theories with flavors and matrix models. (English summary) **2005h:81347**
— (*with* Feng, Bo[1]; Ookouchi, Yutaka) Phases of $\mathcal{N}=1$ $\mathrm{USp}(2N_c)$ gauge theories with flavors. (English summary) **2005e:81222**
Ahn, Changrim (*with* Yamamoto, Masayoshi) Boundary action of $N=2$ super-Liouville theory. (English summary)
Albertsson, Cecilia (*with* Lindström, Ulf; Zabzine, Maxim) $N=1$ supersymmetric sigma model with boundaries. II. (English summary) **2005a:81208**
Aldrovandi, L. G. (*with* Correa, Diego H.; Schaposnik, Fidel A.; Silva, Guillermo A.) Bogomol'nyi-Prasad-Sommerfield analysis of gauge-field-Higgs models in nonanticommutative superspace. (English summary) **2005j:81173**
Alexandre, Jean (*with* Mavromatos, Nikolaos E.; Sarkar, Sarben) Induced $N=2$ composite supersymmetry in $(2+1)$ dimensions. (English summary)
Amador, Xavier *see* **Cáceres, Elena, 2005h:81356**
Ananth, Sudarshan (*with* Brink, Lars; Ramond, Pierre) Oxidizing super-Yang-Mills from $(N=4,\ d=4)$ to $(N=1,\ d=10)$. (English summary) **2005d:81325**
Andrianopoli, Laura (*with* Ferrara, Sergio; Lledó, Maria A.) Axion gauge symmetries and generalized Chern-Simons terms in $N=1$ supersymmetric theories. (English summary) **2005b:81184**
Aoyama, Shogo (*with* Masuda, Takahiro) The Whitham deformation of the Dijkgraaf-Vafa theory. (English summary) **2005e:81223**
Apreda, Riccardo (*with* Crooks, David E.; Evans, Nick; Petrini, Michela) Confinement, glueballs and strings from deformed AdS. (English summary) **2005e:81224**
Arai, Masato (*with* Naganuma, Masashi; Nitta, Muneto; Sakai, Norisuke) Manifest supersymmetry for BPS walls in $\mathcal{N}=2$ nonlinear sigma models. (English summary) **2005a:81209**
— (*with* Nitta, Muneto; Sakai, Norisuke) Vacua of massive hyper-Kähler sigma models with non-abelian quotient. (English summary) **2005m:81295**
Araki, Takeo (*with* Ito, Katsushi; Ohtsuka, Akihisa) $\mathcal{N}=2$ supersymmetric U(1) gauge theory in noncommutative harmonic superspace. (English summary) **2005e:81225**
Areán, Daniel (*with* Crooks, David E.; Ramallo, Alfonso V.) Supersymmetric probes on the conifold. (English summary) **2005h:81348**
Argurio, Riccardo (*with* Ferretti, Gabriele; Heise, Rainer) An introduction to supersymmetric gauge theories and matrix models. (English summary) **2005k:81296**
— Effective superpotential for $\mathrm{U}(N)$ with antisymmetric matter. (English summary) **2005g:81294**
Argyres, Philip C. (*with* Awad, Adel M.; Braun, Gregory A.; Esposito, F. Paul) On superspace Chern-Simons-like terms. (English summary) **2005k:81297**
Arkani-Hamed, Nima (*with* Dimopoulos, Savas; Giudice, G. F.; Romanino, A.) Aspects of split supersymmetry. (English summary)
Armoni, Adi (*with* Gorskiĭ, A. S.; Shifman, M.) An exact relation for $\mathcal{N}=1$ orientifold field theories with arbitrary superpotential. (English summary) **2005g:81295**
Arutyunov, Gleb E. (*with* Staudacher, Matthias) Matching higher conserved charges for strings and spins. (English summary) **2005a:81210**
Arvidsson, Pär (*with* Flink, Erik; Henningson, Måns) The $(2,0)$ supersymmetric theory of tensor multiplets and self-dual strings in six dimensions. (English summary) **2005e:81226**
Asano, Masako (*with* Sekino, Yasuhiro) Large N limit of SYM theories with 16 supercharges from superstrings on Dp-brane backgrounds. (English summary) **2005i:81157**
Awad, Adel M. *see* **Argyres, Philip C. et al., 2005k:81297**
de Azcárraga, José A. (*with* Izquierdo, José Manuel; Picón, Moisés; Varela, Oscar) Extensions, expansions, Lie algebra cohomology and enlarged superspaces. (English summary) **2005d:81326**
— (*with* Izquierdo, José Manuel; Miquel-Espanya, C.) Spacetime scale-invariant super-p-brane actions on enlarged superspaces and the geometry of κ-symmetry. (English summary) **2005i:81158**
Balasubramanian, Vijay (*with* de Boer, Jan; Feng, Bo[1]; He, Yang Hui; Huang, Min-xin; Jejjala, Vishnu; Naqvi, Asad) Multi-trace superpotentials vs. matrix models. (English summary) **2005b:81185**
— (*with* Feng, Bo[1]; Huang, Min-xin; Naqvi, Asad) Phases of $\mathcal{N}=1$ supersymmetric gauge theories with flavors. (English summary) **2005g:81296**
Bandos, Igor A. (*with* Pasti, Paolo; Sorokin, D. P.; Tonin, Mario) Superfield theories in tensorial superspaces and the dynamics of higher spin fields. (English summary) **2005j:81174**
Basu, Anirban (*with* Green, Michael B.; Sethi, Savdeep) A curious truncation of $N=4$ supersymmetric Yang-Mills theory. (English summary) **2005h:81349**
Batalin, I. A. (*with* Bering, Klaus) Hamiltonian superfield formalism with N supercharges. (English summary) **2005k:81298**
— (*with* Damgaard, P. H.) Hamiltonian $N=2$ superfield quantization. (English summary) **2005a:81211**
Beisert, Niklas BMN operators and superconformal symmetry. (English summary) **2005a:81212**
— Higher-loop integrability in $\mathcal{N}=4$ gauge theory. (English and French summaries) **2005m:81296**
— (*with* Bianchi, Massimo; Morales, José Francisco; Samtleben, Henning) Higher spin symmetry and $\mathcal{N}=4$ SYM. (English summary) **2005k:81299**
— (*with* Dippel, Virginia; Staudacher, Matthias) A novel long-range spin chain and planar $\mathcal{N}=4$ super Yang-Mills. (English summary) **2005g:81297**
— The su(2|3) dynamic spin chain. (English summary) **2005g:81298**
Belhaj, Adil *see* **Ahl Laamara, R. et al., 2005f:81234**
Belitsky, A. V. (*with* Braun, V. M.; Gorskiĭ, A. S.; Korchemsky, G. P.) Integrability in QCD and beyond. (English summary) **2005h:81350**
— (*with* Derkachov, S. É.; Korchemsky, G. P.; Manashov, A. N.) Quantum integrability in (super) Yang-Mills theory on the light-cone. (English summary) **2005e:81227**
— (*with* Derkachov, S. É.; Korchemsky, G. P.; Manashov, A. N.) Superconformal operators in $\mathcal{N}=4$ super-Yang-Mills theory. (English summary) **2005h:81351**
— (*with* Derkachov, S. É.; Korchemsky, G. P.; Manashov, A. N.) Dilatation operator in (super-)Yang-Mills theories on the light-cone. (English summary) **2005j:81175**
Bellucci, Stefano (*with* Ivanov, Evgeniĭ Alekseevich[2]; Krivonos, S. O.) Goldstone superfield actions in AdS_5 backgrounds. (English summary) **2005b:81186**
— (*with* Ivanov, Evgeniĭ Alekseevich[2]; Krivonos, S. O.; Lechtenfeld, Olaf) $N=8$ superconformal mechanics. (English summary) **2005c:81194**
— (*with* Casteill, P.-Y.; Morales, José Francisco; Sochichiu, C.) Spin bit models from non-planar $\mathcal{N}=4$ SYM. (English summary) **2005d:81327**
— (*with* Ivanov, Evgeniĭ Alekseevich[2]; Krivonos, S. O.; Lechtenfeld, Olaf) ABC of $N=8$, $d=1$ supermultiplets. (English summary) **2005f:81235**
Bena, Iosif (*with* Murayama, Hitoshi; Tatar, Radu; Roiban, Radu) Matrix model description of baryonic deformations. (English summary) **2005c:81195**
— (*with* Roiban, Radu) $\mathcal{N}=1^*$ in 5 dimensions: Dijkgraaf-Vafa meets Polchinski-Strassler. (English summary) **2005a:81213**
— (*with* Roiban, Radu; Tatar, Radu) Baryons, boundaries and matrix models. (English summary) **2005b:81187**
Benini, Francesco The Coulomb branch of the Leigh-Strassler deformation and matrix models. (English summary) **2005k:81300**
Berenstein, David (*with* Cherkis, Sergey A.) Deformations of $\mathcal{N}=4$ SYM and integrable spin chain models. (English summary) **2005h:81352**
Bergamin, Luzi Generalized complex geometry and the Poisson sigma model. (English summary) **2005m:81297**
Bering, Klaus *see* **Batalin, I. A., 2005k:81298**
Berkovits, Nathan Self-dual super-Yang-Mills as a string theory in (x,θ) space. (English summary) **2005g:81299**
— Alternative string theory in twistor space for $N=4$ super-Yang-Mills theory. (English summary) **2005h:81353**
Bern, Zvi (*with* Dixon, Lance J.; Kosower, David A.) $\mathcal{N}=4$ super-Yang-Mills theory, QCD and collider physics. (English and French summaries) **2005k:81301**
Bertoldi, Gaetano (*with* Bolognesi, Stefano; Matone, Marco; Mazzucato, Luca; Nakayama, Yu) The Liouville geometry of $\mathcal{N}=2$ instantons and the moduli of punctured spheres.

(English summary) **2005j:81176**

Bertolini, Matteo Four lectures on the gauge/gravity correspondence. (English summary) **2005f:81236**

Besprosvany, J. (*with* Moreno, Matías) Compactification with $U(1)$ magnetic field within Dirac supersymmetry. (English and Spanish summaries)

Bianchi, Massimo Higher spin symmetry (breaking) in $\mathcal{N} = 4$ SYM and holography. (English and French summaries) **2005k:81302**

— (*with* Rossi, Giancarlo; Stanev, Yassen S.) Surprises from the resolution of operator mixing in $\mathcal{N} = 4$ SYM. (English summary) **2005c:81196**

— *see also* **Beisert, Niklas et al.**, **2005k:81299**

Billó, Marco (*with* Frau, Marialuisa; Pesando, Igor; Lerda, Alberto) $\mathcal{N} = 1/2$ gauge theory and its instanton moduli space from open strings in R-R background. (English summary) **2005f:81237**

de Boer, Jan *see* **Balasubramanian, Vijay et al.**, **2005b:81185**

Bolognesi, Stefano The holomorphic tension of vortices. (English summary) **2005k:81303**

— (*with* Konishi, Kenichi; Marmorini, Giacomo) Light non-abelian monopoles and generalized r-vacua in supersymmetric gauge theories. (English summary) **2005m:81298**

— *see also* **Bertoldi, Gaetano et al.**, **2005j:81176**

Borokhov, Vadim (*with* Kapustin, Anton; Wu, Xinkai) Monopole operators and mirror symmetry in three dimensions. (English summary) **2005c:81197**

— Monopole operators in three-dimensional $\mathcal{N} = 4$ SYM and mirror symmetry. (English summary) **2005b:81188**

Boschi-Filho, Henrique (*with* Braga, Nelson R. F.) AdS space compactification and holographic mapping in the AdS/CFT correspondence. (English summary) **2005g:81300**

Braden, Harry W. (*with* Hollowood, Timothy J.) The curve of compactified 6D gauge theories and integrable systems. (English summary) **2005d:81328**

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Braun, Gregory A. *see* **Argyres, Philip C. et al.**, **2005k:81297**

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Brink, Lars *see* **Ananth, Sudarshan et al.**, **2005d:81325**

Bruzzo, Ugo (*with* Fucito, Francesco) Superlocalization formulas and supersymmetric Yang-Mills theories. (English summary) **2005a:81214**

Buchel, Alex (*with* Liu, James T.; Starinets, Andrei O.) Coupling constant dependence of the shear viscosity in $\mathcal{N} = 4$ supersymmetric Yang-Mills theory. (English summary) **2005h:81354**

— $\mathcal{N} = 2^*$ hydrodynamics. (English summary) **2005h:81355**

Bukhbinder, I. L. (*with* Ivanov, Evgeniĭ Alekseevich[2]; Samsonov, I. B.; Zupnik, B. M.) Scale invariant low-energy effective action in $\mathcal{N} = 3$ SYM theory. (English summary) **2005a:81215**

Burrington, Benjamin A. (*with* Liu, James T.) Supersymmetry and the AdS Higgs phenomenon. (English summary) **2005j:81177**

— (*with* Liu, James T.; Pando Zayas, Leopoldo A.; Vaman, Diana) Holographic duals of flavored $\mathcal{N} = 1$ super Yang-Mills: beyond the probe approximation. (English summary) **2005m:81299**

Bytsenko, Andrei A. *see* **Abdalla, M. C. B. et al.**, **2005f:81233**

Bzdak, A. (*with* Szwed, J.) The "square root" of the interacting Dirac equation. (English summary) **2005k:81304**

Cáceres, Elena (*with* Amador, Xavier) Spin two glueball mass and glueball Regge trajectory from supergravity. (English summary) **2005h:81356**

Cachazo, Freddy (*with* Seiberg, Nathan; Witten, Edward) Chiral rings and phases of supersymmetric gauge theories. (English summary) **2005d:81329**

Campostrini, M. (*with* Wosiek, J.) High precision study of the structure of $D = 4$ supersymmetric Yang-Mills quantum mechanics. (English summary) **2005f:81238**

Cappiello, Luigi (*with* D'Ambrosio, Giancarlo) Supersymmetric dissipative quantum mechanics from superstrings. (English summary) **2005h:81357**

Casero, Roberto (*with* Trincherini, Enrico) Quivers via anomaly chains. (English summary) **2005d:81330**

Casteill, P.-Y. *see* **Bellucci, Stefano et al.**, **2005d:81327**

Chaichian, Masud (*with* Kobakhidze, Archil) Deformed $N = 1$ supersymmetry. (English summary) **2005k:81305**

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Choi, Kiwoon (*with* Kim, Do Young; Kim, Ian-Woo; Kobayashi, Tatsuo) Supersymmetry breaking in warped geometry. (English summary) **2005b:81189**

— *see also* **Abe, Hiroyuki et al.**, **2005g:81293**

Clark, Thomas E. (*with* Love, S. T.) Nonlinear realization of supersymmetry and superconformal symmetry. (English summary) **2005i:81159**

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— Definite and indefinite inner products on superspace (Hilbert-Krein superspace). (English summary) **2005k:81306**

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Csáki, Csaba (*with* Meade, Patrick; Terning, John) A mixed phase of SUSY gauge theories from a-maximization. (English summary) **2005b:81190**

D'Adda, Alessandro (*with* Kanamori, Issaku; Kawamoto, Noboru; Nagata, Kazuhiro) Twisted superspace on a lattice. (English summary) **2005m:81300**

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Damgaard, P. H. *see* **Batalin, I. A.**, **2005a:81211**

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De Castro, Alexandra (*with* Quevedo, Leonardo; Restuccia, Alvaro) $\mathcal{N} = 2$ super-Born-Infeld from partially broken $\mathcal{N} = 3$ supersymmetry in $d = 4$. (English summary) **2005c:81198**

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— (*with* Gukov, Sergei; Kazakov, Vladimir Aleksandrovich[1]; Vafa, Cumrun) Perturbative analysis of gauged matrix models. (English summary) **2005a:81217**

— (*with* Grisaru, Marcus T.; Ooguri, Hirosi; Vafa, Cumrun; Zanon, Daniela) Planar gravitational corrections for supersymmetric gauge theories. (English summary) **2005f:81240**

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Di Napoli, Edoardo (*with* Kaplunovsky, Vadim S.; Sonnenschein, Jacob) Chiral rings of deconstructive $[SU(n_c)]^N$ quivers. (English summary) **2005h:81359**

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Dorey, Nick Lectures on supersymmetric gauge theory. (English summary) **2005h:81361**

— S-duality, deconstruction and confinement for a marginal deformation of $\mathcal{N} = 4$ SUSY Yang-Mills. (English summary) **2005j:81178**

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Drissi, L. B. *see* **Ahl Laamara, R. et al.**, **2005f:81234**

Dudas, Emilian (*with* Gherghetta, Tony; Groot Nibbelink, Stefan) Vector-tensor duality in the five dimensional supersymmetric Green-Schwarz mechanism. (English summary) **2005h:81362**

Dymarsky, Anatoly (*with* Melnikov, Dmitry) Remarks on BPS bound state "decay". (English summary)

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Engquist, Johan Higher conserved charges and integrability for spinning strings in $AdS_5 \times S^5$. (English summary) **2005g:81301**

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Eto, Minoru (*with* Maru, Nobuhito; Sakai, Norisuke) Non-BPS walls and their stability in 5D supersymmetric theory. (English summary) **2005e:81228**

— (*with* Nitta, Muneto; Sakai, Norisuke) Effective theory on non-abelian vortices in six dimensions. (English summary) **2005f:81242**

— (*with* Maru, Nobuhito; Sakai, Norisuke) Radius stabilization in a supersymmetric warped compactification. (English summary) **2005h:81363**

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— *see also* **Apreda, Riccardo et al.**, **2005e:81224**

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Ferrara, Sergio (*with* Ivanov, Evgeniĭ Alekseevich[2]; Lechtenfeld, Olaf; Sokatchev, E.; Zupnik, B. M.) Non-anticommutative chiral singlet deformation of $N = (1, 1)$ gauge theory. (English summary) **2005h:81364**

— *see also* **Andrianopoli, Laura et al.**, **2005b:81184**

Ferrari, A. F. (*with* Girotti, H. O.; Gomes, Marcelo O. C.; Petrov, A. Yu.; Ribeiro, Anderson André Genro; Rivelles, Victor O.; da Silva, A. J.) Towards a consistent noncommutative supersymmetric Yang-Mills theory: Superfield covariant analysis. (English summary) **2005h:81365**

Ferrari, Frank Super Yang-Mills, matrix models and geometric transitions. (English and French summaries) **2005k:81310**

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Fischbacher, Thomas Bulk Witten indices from $D = 10$ Yang-Mills integrals. (English summary) **2005c:81200**

Fitzgerald, P. L. The superfield quantisation of a superparticle action with an extended line element. (English summary)

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— *see also* **Bruzzo, Ugo**, **2005a:81214**

Fuji, Hiroyuki (*with* Mizoguchi, Shun'ya) Gravitational corrections for supersymmetric gauge theories with flavors via matrix models. (English summary) **2005e:81229**

— (*with* Mizoguchi, Shun'ya) Remarks on phase transitions in Matrix models and $\mathcal{N} = 1$ supersymmetric gauge theory. (English summary) **2005a:81218**

Fujiwara, Kazuhito (*with* Itoyama, Hiroshi; Sakaguchi, Makoto) Supersymmetric U(N) gauge model and partial breaking of $\mathcal{N} = 2$ supersymmetry. (English summary) **2005m:81302**

Ganguli, Surya (*with* Ganor, Ori J.; Gill, James) Twisted six dimensional gauge theories on tori, matrix models, and integrable systems. (English summary) **2005j:81181**

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Gates, S. James, Jr. (*with* Jellal, Ahmed; Saidi, El Hassan; Schreiber, Michael) Supersymmetric embedding of the quantum Hall matrix model. (English summary) **2005j:81182**

Gava, Edi *see* **David, Justin R. et al.**, **2005i:81160**

Georgiou, George (*with* Travaglini, Gabriele) Fermion BMN operators, the dilatation operator of $\mathcal{N} = 4$ SYM, and pp-wave string interactions. (English summary) **2005b:81191**

von Gersdorff, G. (*with* Quirós, Mariano; Riotto, Antonio) Scherk-Schwarz supersymmetry breaking with radion stabilization. (English summary) **2005a:81219**

— (*with* Pilo, Luigi; Quirós, Mariano; Riotto, Antonio; Sanz, V.) Fermions and supersymmetry breaking in the interval. (English summary) **2005d:81332**

— (*with* Pilo, Luigi; Quirós, Mariano; Riotto, Antonio; Sanz, V.) Supersymmetry from boundary conditions. (English summary) **2005k:81312**

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Giedt, Joel (*with* Nelson, Brent D.) Instanton effects and linear-chiral duality. (English summary) **2005d:81333**

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Giombi, Simone (*with* Ricci, Riccardo[2]; Robles-Llana, Daniel; Trancanelli, Diego) A note on twistor gravity amplitudes. (English summary) **2005g:81303**

Girotti, H. O. *see* **Ferrari, A. F. et al., 2005h:81365**

Giudice, G. F. *see* **Arkani-Hamed, Nima et al.**

Gomes, Marcelo O. C. *see* **Ferrari, A. F. et al., 2005h:81365**

Gómez-Reino, Marta (*with* Schnitzer, Howard J.; Naculich, Stephen G.) Improved matrix-model calculation of the $\mathcal{N} = 2$ prepotential. (English summary) **2005m:81303**

— Exact superpotentials, theories and flavor and confining vacua. (English summary) **2005d:81334**

González-López, Artemio (*with* Tanaka, Toshiaki[1]) A new family of $\mathcal{N}$-fold supersymmetry: type B. (English summary) **2005a:81221**

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— From free fields to AdS space. II. (English summary) **2005h:81367**

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Gowdigere, Chethan N. (*with* Nemeschansky, Dennis; Warner, Nicholas P.) Supersymmetric solutions with fluxes from algebraic Killing spinors. (English summary) **2005b:81192**

Graña, Mariana (*with* Minasian, Ruben; Petrini, Michela; Tomasiello, Alessandro) Supersymmetric backgrounds from generalized Calabi-Yau manifolds. (English summary) **2005k:81313**

Grassi, Pietro Antonio (*with* Ricci, Riccardo[2]; Robles-Llana, Daniel) Instanton calculations for $N = 1/2$ super Yang-Mills theory. (English summary) **2005d:81335**

Grasso, Darren T. Higher order contributions to the effective action of $\mathcal{N} = 2$ super Yang-Mills. (English summary) **2005g:81304**

Green, Michael B. (*with* Kovacs, Stefano) Instanton-induced Yang-Mills correlation functions at large N and their $AdS_5 \times S^5$ duals. (English summary) **2005a:81222**

— *see also* **Basu, Anirban et al., 2005h:81349**

Grignani, Gianluca *see* **De Risi, Giuseppe et al., 2005h:81358**

Grigore, Dan Radu (*with* Scharf, Günter) The quantum supersymmetric vector multiplet and some problems in non-abelian supergauge theory. (English summary) **2005c:81201**

— (*with* Scharf, Günter) Quantum extended supersymmetries. (English summary) **2005g:81305**

Gripaios, Ben M. (*with* Wheater, John F.) Veneziano-Yankielowicz superpotential terms in $\mathcal{N} = 1$ SUSY gauge theories. (English summary) **2005b:81193**

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— *see also* **Dudas, Emilian et al., 2005h:81362**

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Gukov, Sergei *see* **Dijkgraaf, Robbert et al., 2005a:81217**

Gunaydin, Murat (*with* Takemae, S.) Erratum to: "Unitary supermultiplets of $OSp(8^*|4)$ and the AdS_7/CFT_6 duality" [Nuclear Phys. B **578** (2000), no. 1-2, 405–448; MR1766151 (2001i:81262)].

Guralnik, Zachary (*with* Kovacs, S.; Kulik, Bogdan) AdS/CFT duality and the Higgs branch of $\mathcal{N} = 2$ SYM. (English summary) **2005m:81304**

Gutjahr, Petra (*with* Plefka, Jan) Decay widths of three-impurity states in the BMN correspondence. (English summary) **2005e:81230**

Gwyn, Rhiannon *see* **de Mello Koch, Robert, 2005i:81166**

Haba, Naoyuki (*with* Yamashita, Toshifumi) Dynamical symmetry breaking in gauge-Higgs unification of 5D $\mathcal{N} = 1$ SUSY theory. (English summary) **2005d:81336**

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— *see also* **Franco, Sebastián et al., 2005f:81243**

Harada, Motomichi (*with* Hiller, John R.; Pinsky, Stephen; Salwen, Nathan) Improved results for $\mathcal{N} = (2, 2)$ super Yang-Mills theory using supersymmetric discrete light-cone quantization. (English summary) **2005h:81369**

Hassaïne, Mokhtar (*with* Olea, Rodrigo; Troncoso, Ricardo) Supersymmetric extension of the nine-dimensional continuation of the Euler density with $\mathcal{N} = 2$. (English summary) **2005d:81337**

Hassan, Mahmood-Ul *see* **Saleem, U.**

Hatanaka, Tomoya (*with* Ketov, Sergei V.; Kobayashi, Yoshishige; Sasaki, Shin) Non-anti-commutative deformation of effective potentials in supersymmetric gauge theories. (English summary) **2005m:81306**

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Henningson, Måns *see* **Arvidsson, Pär et al., 2005e:81226**

Hernández, Rafael (*with* Sfetsos, Konstadinos; Zoakos, Dimitrios) Supersymmetry and Lorentzian holonomy in various dimensions. (English summary) **2005k:81315**

— (*with* López, Esperanza) Spin chain sigma models with fermions. (English summary) **2005i:81162**

Heslop, Paul J. Aspects of superconformal field theories in six dimensions. (English summary) **2005k:81316**

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Hong, Sungho (*with* Yoon, Sukjin; Strassler, Matthew J.) Quarkonium from the fifth dimension. (English summary) **2005c:81202**

— *see also* **Erlich, Joshua et al., 2005k:81309**

Huang, Chao-Shang (*with* Jiang, Jing[1]; Li, Tian-Jun) Supersymmetric SO(10) models inspired by deconstruction. (English summary) **2005k:81317**

Huang, Min-xin *see* **Balasubramanian, Vijay et al., 2005b:81185** *and* **2005g:81296**

Ichinose, Shoichi (*with* Murayama, Akihiro) Brane-antibrane solution and SUSY effective potential in five-dimensional Mirabelli-Peskin model. (English summary) **2005a:81223**

— (*with* Murayama, Akihiro) A bulk effect to SUSY effective potential in a 5D super-Yang-Mills model. (English summary)

— (*with* Murayama, Akihiro) Family of singular solutions in a SUSY bulk-boundary system. (English summary) **2005d:81338**

Ilieva, Nevena (*with* Narnhofer, Heide; Thirring, Walter) Finite supersymmetry transformations. (English summary) **2005k:81318**

Imaanpur, Ali (*with* Parvizi, Shahrokh) $\mathcal{N} = 1/2$ super Yang-Mills theory on Euclidean $AdS_2 \times S^2$. (English summary) **2005e:81231**

Imamura, Yosuke On string junctions in supersymmetric gauge theories. (English summary) **2005j:81183**

Imeroni, Emiliano $\mathcal{N} = 1$ gauge superpotentials from supergravity. (English summary) **2005c:81203**

Inami, Takeo (*with* Nakajima, Hiroaki) Supersymmetric CP^N sigma model on noncommutative superspace. (English summary) **2005d:81339**

Intriligator, Ken (*with* Wecht, Brian) Baryon charges in 4d superconformal field theories and their AdS duals. (English summary) **2005d:81340**

— *see also* **Aganagic, Mina et al., 2005h:81346**

Iqbal, Amer (*with* Kaplunovsky, Vadim S.) Quantum deconstruction of a 5D SYM and its moduli space. (English summary) **2005h:81370**

Isozumi, Youichi (*with* Nitta, Muneto; Ohashi, Keisuke; Sakai, Norisuke) Non-abelian walls in supersymmetric gauge theories. (English summary) **2005j:81184**

— (*with* Nitta, Muneto; Ohashi, Keisuke; Sakai, Norisuke) Construction of non-abelian walls and their complete moduli space. (English summary) **2005h:81371**

— (*with* Nitta, Muneto; Ohashi, Keisuke; Sakai, Norisuke) All exact solutions of a 1/4 Bogomol′nyi-Prasad-Sommerfield equation. (English summary) **2005m:81307**

Ito, Katsushi *see* **Araki, Takeo et al., 2005e:81225**

Itoyama, Hiroshi (*with* Kanno, Hiroaki) Whitham prepotential and superpotential. (English summary) **2005c:81204**

— *see also* **Fujiwara, Kazuhito et al., 2005m:81302**

Ivanov, Evgeniĭ Alekseevich[2] (*with* Krivonos, S. O.; Lechtenfeld, Olaf) $N = 4$, $d = 1$ supermultiplets from nonlinear realizations of $D(2, 1; \alpha)$. (English summary) **2005c:81205**

— (*with* Smilga, Andrei) Symplectic sigma models in superspace. (English summary) **2005e:81232**

— (*with* Sutulin, A.) Diversity of off-shell twisted (4, 4) multiplets in $SU(2) \times SU(2)$ harmonic superspace. (English summary) **2005h:81372**

— The "conformal theories—AdS-branes" mapping, or yet another aspect of the AdS/CFT-correspondence. (Russian. Russian summary) **2005f:81245**

— (*with* Lechtenfeld, Olaf; Zupnik, B. M.) Non-anticommutative deformation of $N = (1, 1)$ hypermultiplets. (English summary) **2005h:81373**

— *see also* **Bukhbinder, I. L. et al., 2005a:81215**; **Bellucci, Stefano et al., 2005b:81186**; **2005c:81194**; **2005f:81235** *and* **Ferrara, Sergio et al., 2005h:81364**

Izquierdo, José Manuel *see* **de Azcárraga, José A. et al., 2005d:81326** *and* **2005i:81158**

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Jain, Pankaj[3] (*with* Ralston, John P.) Supersymmetry and the Lorentz fine tuning problem. (English summary)

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— Exact $U(N_c) \to U(N_1) \times U(N_2)$ factorization of Seiberg-Witten curves and $\mathcal{N} = 1$ vacua. (English summary) **2005f:81246**

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Jeong, Kwang-Sik *see* **Abe, Hiroyuki et al., 2005g:81293**

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Kapustin, Anton *see* **Borokhov, Vadim et al., 2005c:81197**

Kawai, Hikaru (*with* Kuroki, Tsunehide; Morita, Takeshi) Supersymmetric large-N reduced model with multiple matter. (English summary) **2005f:81247**

— (*with* Kuroki, Tsunehide; Morita, Takeshi; Yoshida, Kensuke) Direct derivation of the Veneziano-Yankielowicz superpotential from matrix model. (English summary) **2005i:81163**

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— (*with* Lipatov, L. N.; Onishchenko, A. I.; Velizhanin, V. N.) Three-loop universal anomalous dimension of the Wilson operators in $\mathcal{N} = 4$ SUSY Yang-Mills model. (English summary) **2005g:81307**

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Sheikh-Jabbari, Mohammad M. *see* **Sadri, Darius, 2005a:81233**
Shifman, M. (*with* Yung, A.) Localization of non-abelian gauge fields on domain walls at weak coupling: D-brane prototypes. (English summary) **2005g:81314**
— *see also* **Armoni, Adi et al., 2005g:81295**
Shigemori, Masaki *see* **Ahn, Changhyun et al., 2005h:81347**
Shih, David Singularities of $\mathcal{N} = 1$ supersymmetric gauge theory and matrix models. (English summary) **2005b:81197**
Shima, Kazunari (*with* Tsuda, Motomu) Some systematics in the relation between linear and nonlinear global supersymmetry in curved spacetime. (English summary) **2005i:81170**
Sieg, Christoph *see* **Dorn, Harald et al., 2005d:81331**
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Sinkovics, Annamaria *see* **Dijkgraaf, Robbert et al., 2005i:81161**
Smilga, Andrei (*with* Vaĭnshteĭn, A. I.) Background field calculations and nonrenormalization theorems in 4d supersymmetric gauge theories and their low-dimensional descendants. (English summary) **2005m:81315**
— *see also* **Ivanov, Evgeniĭ Alekseevich[2], 2005e:81232**
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Spalenza, Wesley (*with* Ney, Wander G.; Helayël-Neto, J. A.) Anti-symmetric rank-two tensor matter field on superspace for $N_T = 2$. (English summary) **2005c:81215**
Spradlin, Marcus (*with* Van Raamsdonk, Mark; Volovich, Anastasia) Two-loop partition function in the planar plane-wave matrix model. (English summary) **2005g:81315**
Stanev, Yassen S. *see* **Bianchi, Massimo et al., 2005c:81196**
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Stefański, Bogdan, Jr. (*with* Tseytlin, A. A.) Large spin limits of AdS/CFT and generalized Landau-Lifshitz equations. (English summary) **2005d:81345**
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Tartaglino Mazzucchelli, Gabriele Quantization of $N = 1$ chiral/nonminimal (CNM) scalar multiplets and supersymmetric Yang-Mills theories. (English summary) **2005d:81346**
Tatar, Radu *see* **Bena, Iosif et al., 2005b:81187**; **2005c:81195**; **Landsteiner, Karl et al., 2005e:81235**; **2005f:81250** *and* **2005g:81310**
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Troncoso, Ricardo *see* **Hassaïne, Mokhtar et al., 2005d:81337**
Troost, Jan A note on causality in the bulk and stability on the boundary. (English summary) **2005a:81234**
Tseng, Li-Sheng *see* **Okuyama, Kazumi, 2005h:81380**
Tseytlin, A. A. Semiclassical relativistic strings in $AdS_5 \times S^5$ and long scalar operators in $\mathcal{N} = 4$ SYM theory. (English and French summaries) **2005k:81330**
— *see also* **Stefański, Bogdan, Jr., 2005d:81345**; **Kruczenski, Martin, 2005g:81308** *and* **Ryzhov, Anton V., 2005h:81382**
Tsuda, Motomu *see* **Shima, Kazunari, 2005i:81170**
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Vaĭnshteĭn, A. I. *see* **Smilga, Andreĭ, 2005m:81315**
Vaman, Diana (*with* Verlinde, Herman) Bit strings from $\mathcal{N} = 4$ gauge theory. (English summary) **2005g:81317**
— *see also* **Burrington, Benjamin A. et al., 2005m:81299**
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Walker, Michael Luke Supersymmetry and chiral symmetry. (English summary) **2005k:81331**
Wang, Peng[2] *see* **Meng, Xin-He, 2005c:81210**
Wang, Xiao-Jun (*with* Wu, Yong Shi[1]) Integrable spin chain and operator mixing in $\mathcal{N} = 1, 2$ supersymmetric theories. (English summary) **2005a:81235**
Warner, Nicholas P. *see* **Gowdigere, Chethan N. et al., 2005b:81192**; **Kennaway, Kristian D., 2005g:81306** *and* **Aganagic, Mina et al., 2005h:81346**
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Zaffaroni, Alberto[1] *see* **Petrini, Michela et al., 2005a:81232**
Zait, R. A. (*with* Mourad, M. F.) Supersymmetric WZW σ-model on infinite and half-plane. (English summary) **2005m:81316**
Zanon, Daniela *see* **Dijkgraaf, Robbert et al., 2005f:81240**
Zarembo, Konstantin *see* **Lübcke, Martin, 2005c:81209**
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Zoupanos, George *see* **Manousselis, Pantelis, 2005h:81376** *and* **Ma, Ernest et al., 2005k:81321**
Zupnik, B. M. Singlet deformation of $N = (1, 1)$ superspace. (English summary)
— $N = 4$ multiplets in $N = 3$ harmonic superspace. (Russian. Russian summary) **2005k:81332**
— *see also* **Bukhbinder, I. L. et al., 2005a:81215**; **Ferrara, Sergio et al., 2005h:81364** *and* **Ivanov, Evgeniĭ Alekseevich**[2] **et al., 2005h:81373**

Items with secondary classifications in 81T60

Abe, Hiroyuki (*with* Choi, Kiwoon) Gauged $U(1)_R$ symmetries and Fayet-Iliopoulos terms in 5D orbifold supergravity. (English summary) **2005k:83171**
Acharya, B. S. M theory, G_2-manifolds and four-dimensional physics. (English summary) **2005e:81159**
Adams, Allan (*with* Basu, Anirban; Sethi, Savdeep) (0, 2) duality. (English summary) **2005b:81167**
Aganagic, Mina (*with* Klemm, Albrecht; Mariño, Marcos; Vafa, Cumrun) Matrix model as a mirror of Chern-Simons theory. (English summary) **2005f:81222**
Aharony, Ofer (*with* Marsano, Joseph; Minwalla, Shiraz; Papadodimas, Kyriakos; Van Raamsdonk, Mark) The deconfinement and Hagedorn phase transitions in weakly coupled large N gauge theories. (English and French summaries) **2005k:81168**
Ahn, Changrim (*with* Stanishkov, Marian; Yamamoto, Masayoshi) One-point functions of $N = 2$ super-Liouville theory with boundary. (English summary) **2005b:81168**
— (*with* Kim, Chanju; Rim, Chaiho; Stanishkov, Marian) Duality in $N = 2$ super-Liouville theory. (English summary) **2005g:81266**
Alday, Luis Fernando Gravitational F-terms through Konishi anomaly. (English summary) **2005b:81181**
Alishahiha, Mohsen (*with* Ghodsi, Ahmad; Sadooghi, Néda) One-loop perturbative corrections to non(anti)commutativity parameter of $\mathcal{N} = 1/2$ supersymmetric $U(N)$ gauge theory. (English summary) **2005b:81112**
Allanach, Ben C. (*with* King, Stephen F.; Rayner, David A. J.) Phenomenology of twisted moduli in type-I string inspired models. (English summary) **2005c:81147**
Andrianopoli, Laura (*with* Ferrara, Sergio; Lledó, Maria A.) Scherk-Schwarz reduction of $D = 5$ special and quaternionic geometry. (English summary) **2005m:83144**
Antoniadis, Ignatios (*with* Dimopoulos, Savas) Splitting supersymmetry in string theory. (English summary) **2005m:81229**
Araki, Takeo (*with* Ito, Katsushi) Singlet deformation and non(anti)commutative $\mathcal{N} = 2$ supersymmetric U(1) gauge theory. (English summary) **2005c:81222**
— (*with* Ito, Katsushi; Ohtsuka, Akihisa) Deformed supersymmetry in non(anti)commutative $\mathcal{N} = 2$ supersymmetric U(1) gauge theory. (English summary) **2005h:81390**
Argurio, Riccardo Chiral gauge theories and the Konishi anomaly. (English summary) **2005b:81182**
Armoni, Adi (*with* Shifman, M.; Veneziano, Gabriele) Exact results in a non-supersymmetric gauge theory. (English summary) **2005c:81133**
Arnone, Stefano (*with* Yoshida, Kensuke) Application of exact renormalization group techniques to the non-perturbative study of supersymmetric field theory. (English summary) **2005c:81140**
— (*with* Guerrieri, Francesco; Yoshida, Kensuke) $\mathcal{N} = 1^*$ model and glueball superpotential from renormalization-group-improved perturbation theory. (English summary) **2005d:81257**
Auzzi, Roberto (*with* Bolognesi, Stefano; Evslin, Jarah; Konishi, Kenichi; Murayáma, Hitoshi) Non-abelian monopoles. (English summary) **2005h:81213**
de Azcárraga, José A. *see* **Bandos, Igor A. et al., 2005f:83110**
Bagger, Jonathan (*with* Redi, Michele) Radion effective theory in the detuned Randall-Sundrum model. (English summary) **2005b:83087**
— *see also* **Concise encyclopedia of supersymmetry and noncommutative structures in mathematics and physics, 2005m:81001**
Bandos, Igor A. (*with* de Azcárraga, José A.; Izquierdo, José Manuel; Picón, Moisés; Varela, Oscar) On the underlying gauge group structure of $D = 11$ supergravity. (English summary) **2005f:83110**
Banin, A. T. (*with* Bukhbinder, I. L.; Pletnev, Nikolai G.) Chiral effective potential in $\mathcal{N} = 1/2$ non-commutative Wess-Zumino model. (English summary) **2005g:81327**
Basu, Anirban *see* **Adams, Allan et al., 2005b:81167**
Beisert, Niklas (*with* Staudacher, Matthias; Frolov, Sergei A.; Tseytlin, A. A.) Precision spectroscopy of AdS/CFT. (English summary) **2005g:81224**
Bellucci, Stefano (*with* Krivonos, S. O.; Nersesyan, A. P.) $\mathcal{N} = 8$ supersymmetric mechanics on special Kähler manifolds. (English summary) **2005i:81048**
— (*with* Krivonos, S. O.; Shcherbakov, A.) Two-dimensional $N = 8$ supersymmetric mechanics in superspace. (English summary) **2005m:81114**
Bennequin, Daniel Dualités de champs et de cordes (d'après 't Hooft, Polyakov, Witten et al.). (French summary) [Dualities of fields and strings (following 't Hooft, Polyakov, Witten et al.)] **2005h:81259**
Berenstein, David Solving matrix models using holomorphy. (English summary) **2005d:81272**
— Shape and holography: studies of dual operators to giant gravitons. (English summary) **2005a:83114**
Bergamin, Luzi (*with* Kummer, Wolfgang) Complete solution of 2D superfield supergravity from graded Poisson-sigma models, and the super point particle. (English summary) **2005e:83102**
Bern, Zvi (*with* Dixon, Lance J.; Kosower, David A.) Two-loop $g \to gg$ splitting amplitudes in QCD. (English summary) **2005g:81346**
— (*with* De Freitas, Abilio) Two-loop helicity amplitudes for fermion-fermion scattering. (English summary)
— (*with* Del Duca, Vittorio; Dixon, Lance J.; Kosower, David A.) All non-maximally-helicity-violating one-loop seven-gluon amplitudes in $\mathcal{N} = 4$ super-Yang-Mills theory. (English summary) **2005k:81183**
Bianchi, Massimo (*with* Prisco, Maurizio; Mück, Wolfgang) New results on holographic three-point functions. (English summary) **2005a:81149**
— (*with* Marchetti, Alessandro) Holographic three-point functions: one step beyond the tradition. (English summary) **2005g:81205**
Bichl, A. A. (*with* Ertl, M.; Gerhold, A.; Grimstrup, Jesper Møller; Popp, L.; Putz, V.; Schweda, M.; Grosse, Harald; Wulkenhaar, Raimar) Noncommutative U(1) super-Yang-Mills theory: perturbative self-energy corrections. (English summary) **2005e:81245**
Bidder, Steven J. (*with* Bjerrum-Bohr, N. E. J.; Dixon, Lance J.; Dunbar, David C.) $N = 1$ supersymmetric one-loop amplitudes and the holomorphic anomaly of unitarity cuts. (English summary) **2005h:81341**
Bigazzi, Francesco (*with* Cotrone, Aldo Lorenzo) PP-waves and softly broken $\mathcal{N} = 1$ SYM. (English summary) **2005c:83070**
— (*with* Cotrone, Aldo Lorenzo; Martucci, Luca) Semiclassical spinning strings and confining gauge theories. (English summary) **2005e:81163**
Bilal, Adel (*with* Metzger, Steffen) Anomalies in M-theory on singular G_2-manifolds. (English summary) **2005e:81218**
Birkedal, Andreas (*with* Chacko, Zacharia; Gaillard, Mary K.) Little supersymmetry and the supersymmetric little hierarchy problem. (English summary) **2005h:81436**
Biswas, Anindya (*with* Kumar Dey, Tanay; Mukherji, Sudipta) R-charged AdS bubble.

(English summary) **2005j:83130**

Bjerrum-Bohr, N. E. J. *see* **Bidder, Steven J. et al., 2005h:81341**

de Boer, Jan (*with* de Haro, Sebastian) The off-shell M5-brane and non-perturbative gauge theory. (English summary) **2005h:81261**

Boldo, José Luís (*with* Constantinidis, Clisthenis P.; Piguet, Olivier; Gieres, François; Lefrançois, Matthieu) Observables in topological Yang-Mills theories. (English summary) **2005f:81224**

Bolognesi, Stefano *see* **Auzzi, Roberto et al., 2005h:81213**

Bonini, Marisa (*with* Feo, Alessandra) Wess-Zumino model with exact supersymmetry on the lattice. (English summary) **2005g:81215**

Brandenberger, Robert H. (*with* Randjbar-Daemi, Seif) Inflation in 6D gauged supergravity. (English summary) **2005i:83129**

Britto-Pacumio, Ruth A. (*with* Feng, Bo[1]) $\mathcal{N} = \frac{1}{2}$ Wess-Zumino model is renormalizable. (English summary) **2005a:81239**

— (*with* Cachazo, Freddy; Feng, Bo[1]) Coplanarity in twistor space of $\mathcal{N} = 4$ next-to-MHV one-loop amplitude coefficients. (English summary) **2005i:81106**

Broda, Bogusław 3-dimensional scalar-vector dual of topological σ-model. (English summary) **2005g:81286**

Bruzzo, Ugo (*with* Fucito, Francesco; Morales, José Francisco; Tanzini, Alessandro) Multi-instanton calculus and equivariant cohomology. (English summary) **2005a:81203**

Buchel, Alex Gauge theories on hyperbolic spaces and dual wormhole instabilities. (English summary) **2005j:83131**

Bukhbinder, E. I. (*with* Ovrut, Burt A.) Vacuum stability in heterotic M theory. (English summary) **2005g:81229**

Bukhbinder, I. L. *see* **Banin, A. T. et al., 2005g:81327**

Bundzik, Daniel (*with* Tollstén, Anna) The geometry of fractional D1-branes. (English summary) **2005e:81166**

Burgess, Clifford P. Supersymmetric large extra dimensions and the cosmological constant: an update. (English summary) **2005h:83180**

Cachazo, Freddy *see* **Britto-Pacumio, Ruth A. et al., 2005i:81106**

Cariglia, Marco (*with* Mac Conamhna, Oisín A. P.) The general form of supersymmetric solutions of $N = (0, 1)$ U(1) and SU(2) gauged supergravities in six dimensions. (English summary) **2005c:83080**

Catterall, Simon A geometrical approach to $N = 2$ super Yang-Mills theory on the two dimensional lattice. (English summary) **2005k:81197**

Celi, Alessio (*with* Ceresole, Anna; Dall'Agata, Gianguido; Van Proeyen, Antoine; Zagermann, Marco) On the fakeness of fake supergravity. (English summary) **2005k:83175**

Ceresole, Anna *see* **Celi, Alessio et al., 2005k:83175**

Chacko, Zacharia *see* **Birkedal, Andreas et al., 2005h:81436**

Chandrasekhar, B. $D = 2$, $\mathcal{N} = 2$ supersymmetric σ models on non(anti)commutative superspace. (English summary) **2005j:81194**

— $\mathcal{N} = 2$ σ-model action on non(anti)commutative superspace. (English summary) **2005k:81340**

Chen, Bin[5] (*with* Wang, Xiao-Jun; Wu, Yong Shi[1]) Open spin chain and open spinning string. (English summary) **2005b:81135**

Chen, Ching-Ming (*with* Kraniotis, G. V.; Mayes, V. E.; Nanopoulos, Dimitri; Walker, Joel) A supersymmetric flipped SU(5) intersecting brane world. (English summary) **2005j:83087**

Choi, Kiwoon *see* **Abe, Hiroyuki, 2005k:83171**

Chong, Z.-W. (*with* Cvetič, Mirjam; Lü, Hong[1]; Pope, Christopher N.) Charged rotating black holes in four-dimensional gauged and ungauged supergravities. (English summary) **2005m:83146**

Chu, Chong-Sun (*with* Khoze, Valentin V.; Petrini, Michela; Russo, Rodolfo; Tanzini, Alessandro) A note on string interaction on the pp-wave background. (English summary) **2005a:81166**

Constantinidis, Clisthenis P. (*with* Piguet, Olivier; Spalenza, Wesley) Superspace gauge fixing of topological Yang-Mills theories. (English summary) **2005e:81214**

— *see also* **Boldo, José Luís et al., 2005f:81224**

Cortés Suárez, Vicente (*with* Mayer, Christoph[2]; Mohaupt, Thomas; Saueressig, Frank) Special geometry of Euclidean supersymmetry. I. Vector multiplets. (English summary) **2005c:53055**

Cotrone, Aldo Lorenzo *see* **Bigazzi, Francesco et al., 2005c:83070** *and* **2005e:81163**

Cvetič, Mirjam (*with* Langacker, Paul; Li, Tian-Jun; Liu, Tao) D6-brane splitting on type IIA orientifolds. (English summary) **2005i:81122**

— *see also* **Chong, Z.-W. et al., 2005m:83146**

Dall'Agata, Gianguido *see* **Celi, Alessio et al., 2005k:83175**

D'Auria, Riccardo (*with* Sommovigo, Luca; Vaulà, Silvia) $N = 2$ supergravity Lagrangian coupled to tensor multiplets with electric and magnetic fluxes. (English summary) **2005i:83131**

De Freitas, Abilio *see* **Bern, Zvi**

Del Duca, Vittorio *see* **Bern, Zvi et al., 2005k:81183**

Deo, B. B. (*with* Maharana, L.) Particle spectrum of the supersymmetric standard model from the massless excitations of a four-dimensional superstring. (English summary) **2005b:81137**

Dimopoulos, Savas *see* **Antoniadis, Ignatios, 2005m:81229**

Dixon, Lance J. *see* **Bern, Zvi et al., 2005g:81346; 2005k:81183** *and* **Bidder, Steven J. et al., 2005h:81341**

Dobashi, Suguru (*with* Yoneya, Tamiaki) Resolving the holography in the plane-wave limit of AdS/CFT correspondence. (English summary) **2005i:83117**

Dorey, Nick A new deconstruction of little string theory. (English summary) **2005j:81139**

Douglas, Michael R. (*with* Shiffman, Bernard; Zelditch, Steve) Critical points and supersymmetric vacua. I. (English summary) **2005h:32047**

Dunbar, David C. *see* **Bidder, Steven J. et al., 2005h:81341**

(Duplij, S. A.) *see* **Concise encyclopedia of supersymmetry and noncommutative structures in mathematics and physics, 2005m:81001**

Eguchi, Tohru (*with* Kanno, Hiroaki) Topological strings and Nekrasov's formulas. (English summary) **2005b:81178**

— (*with* Sugawara, Yuji) Modular bootstrap for boundary $\mathcal{N} = 2$ Liouville theory. (English summary) **2005d:81311**

Ellis, Jonathan Richard (*with* Mavromatos, Nikolaos E.; Nanopoulos, Dimitri; Sakharov, Alexander S.) Brany Liouville inflation. (English summary) **2005m:83156**

— (*with* Heinemeyer, Sven; Olive, Keith A.; Weiglein, Georg) Indirect sensitivities to the scale of supersymmetry. (English summary)

Enger, H. (*with* Lütken, C. A.) Non-linear Yang-Mills instantons from strings are π-stable D-branes. (English summary) **2005f:14025**

Enqvist, Kari (*with* Jokinen, Asko; Mazumdar, Anupam) Dynamics of minimal supersymmetric standard model flat directions consisting of multiple scalar fields. (English summary) **2005h:81437**

Erdmenger, Johanna (*with* Guralnik, Zachary; Kirsch, Ingo; Helling, Robert) A world-volume perspective on the recombination of intersecting branes. (English summary) **2005h:81274**

Ertl, M. *see* **Bichl, A. A. et al., 2005e:81245**

Evslin, Jarah *see* **Auzzi, Roberto et al., 2005h:81213**

Feng, Bo[1] *see* **Britto-Pacumio, Ruth A. et al., 2005a:81239** *and* **2005i:81106**

Feng, Jonathan L. Supersymmetry and cosmology. (English summary) **2005h:83273**

Feo, Alessandra *see* **Bonini, Marisa, 2005g:81215**

Ferrara, Sergio *see* **Andrianopoli, Laura et al., 2005m:83144**

Ferrari, A. F. (*with* Girotti, H. O.; Gomes, Marcelo O. C.; Petrov, A. Yu.; Ribeiro, Anderson André Genro; da Silva, A. J.) On the consistency of the three-dimensional noncommutative supersymmetric Yang-Mills theory. (English summary) **2005g:81199**

Ferrari, Frank Four dimensional non-critical strings. (English summary) **2005b:81140**

Fidkowski, Lukasz (*with* Hubeny, Veronika E.; Kleban, Matthew; Shenker, Stephen) The black hole singularity in AdS/CFT. (English summary) **2005g:83066**

Flume, Rainald (*with* Fucito, Francesco; Morales, José Francisco; Poghossian, Rubik) Matone's relation in the presence of gravitational couplings. (English summary) **2005h:81338**

Franco, Daniel H. T. (*with* Polito, Caio M. M.) Supersymmetric field-theoretic models on a supermanifold. (English summary) **2005h:81246**

Franco, Sebastián (*with* Hanany, Amihay; He, Yang Hui) A trio of dualities: walls, trees and cascades. (English summary) **2005g:81237**

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— (*with* Kiss, Annamária; Merrell, Willie) Dynamical equations from a first-order perturbative superspace formulation of 10D, $\mathcal{N} = 1$ string-corrected supergravity. I. (English summary) **2005k:83179**

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Sasaki, Toru[2] Hecke operator and S-duality of $\mathcal{N}=4$ super Yang-Mills for ADE gauge group on $K3$. (English summary) **2005d:81318**
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Schmidt, Michael G. *see* **Paccetti Correia, Filipe et al., 2005k:83188** *and* **2005k:83189**
Schnakenburg, Igor (*with* West, Peter C.) Kac-Moody symmetries of ten-dimensional non-maximal supergravity theories. (English summary) **2005g:83135**
— *see also* **Kleinschmidt, Axel[2] et al., 2005k:81107**
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Shiffman, Bernard *see* **Douglas, Michael R. et al., 2005h:32047**
Shifman, M. (*with* Yung, A.) Non-abelian string junctions as confined monopoles. (English summary) **2005h:81429**
— *see also* **Armoni, Adi et al., 2005c:81133** *and* **Sannino, F., 2005g:81347**
Shigechi, Keiichi (*with* Wadati, Miki; Wang, Ning[3]) WDVV equation and triple-product relation. (English summary) **2005i:81060**
Shigemori, Masaki *see* **Intriligator, Ken et al., 2005a:81172**
Shizuya, K. Superfield formulation of central charge anomalies in two-dimensional supersymmetric theories with solitons. (English summary) **2005d:81323**
— Topological-charge anomalies in supersymmetric theories with domain walls. (English summary) **2005h:81343**
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Sinkovics, Annamaria (*with* Verlinde, Erik) A six-dimensional view on twistors. (English summary) **2005k:81122**
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Sorin, A. S. (*with* Kersten, Paul H. M.) Deformation and recursion for the $N=2$ $\alpha=1$ supersymmetric KdV hierarchy. (English summary) **2005f:37151**
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Wang, Xiao-Jun *see* **Chen, Bin[5] et al., 2005b:81135**
Warner, Nicholas P. Gauged supergravity and holographic field theory. (*see* **2005j:83002**)
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Wipf, A. *see* **Kirchberg, A. et al., 2005k:81198**
de Wit, Bernard (*with* Samtleben, Henning; Trigiante, Mario) The maximal $D = 5$ supergravities. (English summary) **2005m:83151**
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Items listed otherwise than by author

Concise encyclopedia of supersymmetry and noncommutative structures in mathematics and physics ★ Concise encyclopedia of supersymmetry and noncommutative structures in mathematics and physics. **2005m:81001**

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Aidaoui, A. (*with* Doebner, H. D.; Tahiri, M.) *BF* and anti-*BF* theories in the generalized connection formalism. (English summary) **2005g:81318**
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— (*with* Hurth, Tobias; Skenderis, Kostas) Comments on the gauge fixed BRST cohomology and the quantum Noether method. (English summary) **2005c:81216**
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— (*with* Tyutin, I. V.) On the transformations of Hamiltonian gauge algebra under rotations of constraints. (English summary) **2005m:81317**
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— (*with* Cioroianu, Eugen Mihăiță; Lungu, Adriana Costelia; Saliu, Solange-Odile) No multi-graviton theories in the presence of a Dirac field. (English summary) **2005m:81318**
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Brouder, Christian (*with* Fauser, Bertfried; Frabetti, Alessandra; Oeckl, Robert) Quantum field theory and Hopf algebra cohomology. (English summary) **2005f:81252**
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Bucker, Beatrice Geometrical approaches to the quantization of gauge theories. (English summary) **2005h:81387**
Bukhbinder, I. L. (*with* Krykhtin, V. A.; Pashnev, A.) BRST approach to Lagrangian construction for fermionic massless higher spin fields. (English summary) **2005k:81334**
— *see also* **Bekaert, Xavier et al., 2005b:81199**
Chandrasekharan, S. *see* **Brower, R. et al., 2005g:81320**
Chesterman, Michael Ghost constraints and the covariant quantization of the superparticle in ten dimensions. (English summary) **2005a:81236**
— (*with* Silka, Marcelo B.) A quantum BRST–anti-BRST approach to classical integrable systems. (English summary) **2005b:81200**
Chruściński, Dariusz Quantization conditions and p-form electrodynamics. (English summary) **2005b:81201**
Ciobîrcă, Costin-Cătălin (*with* Cioroianu, Eugen Mihăiță; Saliu, Solange-Odile) Cohomological BRST aspects of the massless tensor field with the mixed symmetry (k, k). (English summary) **2005g:81321**
— *see also* **Bizdadea, Constantin et al., 2005h:81386**
Cioroianu, Eugen Mihăiță (*with* Săraru, S. C.) Two-dimensional interactions between a BF-type theory and a collection of vector fields. (English summary) **2005g:81322**
— *see also* **Ciobîrcă, Costin-Cătălin et al., 2005g:81321**; **Bizdadea, Constantin et al., 2005h:81386** *and* **2005m:81318**
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Dayi, Ömer F. The relations between generalized fields and superfields formalisms of the Batalin-Vilkovisky method of quantization. (English summary) **2005c:81217**
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— *see also* **Geyer, Bodo et al., 2005a:81237**
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— (*with* van Nieuwenhuizen, Peter) Gauging cosets. (English summary) **2005f:81253**
— (*with* van Nieuwenhuizen, Peter) $N = 4$ superconformal symmetry for the covariant quantum superstring. (English summary) **2005i:81171**
— *see also* **Anguelova, Lilia, 2005k:81333**
Grigor′ev, M. A. Even and odd brackets and quantization. (English summary) **2005c:81218**
— *see also* **Barnich, Glenn et al., 2005d:81348**
Guttenberg, Sebastian (*with* Knapp, Johanna; Kreuzer, Maximilian) On the covariant quantization of type-II superstrings. (English summary) **2005f:81254**
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— *see also* **Geyer, Bodo et al., 2005a:81237**
Liu, Yuxiao (*with* Zhang, Li Jie[1]; Ren, Jirong) Ghost field realizations of the spinor $W_{2,s}$ strings based on the linear $W_{1,2,s}$ algebras. (English summary) **2005m:81319**
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— Wigner's little group and BRST cohomology for one-form abelian gauge theory. (English summary) **2005e:81242**
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Natividade, C. P. (*with* Boschi-Filho, Henrique; Belvedere, L. V.) BFFT formalism applied to the minimal chiral Schwinger model. (English summary) **2005g:81326**

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Stoenescu, G. BRST-antibracket cohomology of YM theory in d'Hoker approach. (English summary) 2005b:81203
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Zucchini, Roberto Target space equivariant cohomological structure of the Poisson sigma model. (English summary) 2005b:81204
— A sigma model field theoretic realization of Hitchin's generalized complex geometry. (English summary) 2005k:81336

Items with secondary classifications in 81T70

Asano, Masako (*with* Natsuume, Makoto) The no-ghost theorem in curved backgrounds with a timelike u(1): NSR string. (English summary) 2005b:81125
Bandelloni, G. (*with* Lazzarini, S.) Induced quantum gravity on a Riemann surface. (English summary) 2005a:81089
Barnich, Glenn (*with* Leclercq, Serge; Spindel, Philippe) Classification of surface charges for a spin 2 field on a curved background solution. (English summary) 2005h:83052
Bashkirov, D. BV quantization of covariant (polysymplectic) Hamiltonian field theory. (English summary) 2005g:58030
Batalin, I. A. (*with* Bering, Klaus) Hamiltonian superfield formalism with N supercharges. (English summary) 2005k:81298
Bergamin, Luzi (*with* Grumiller, Daniel; Kummer, Wolfgang) Quantization of 2D dilaton supergravity with matter. (English summary) 2005b:83132
Bering, Klaus *see* Batalin, I. A., 2005k:81298
Boldo, José Luís (*with* Constantinidis, Clisthenis P.; Piguet, Olivier; Gieres, François; Lefrançois, Matthieu) Observables in topological Yang-Mills theories. (English summary) 2005f:81224
— (*with* Constantinidis, Clisthenis P.; Gieres, François; Lefrançois, Matthieu; Piguet, Olivier) Observables in topological theories: a superspace formulation. (English summary) 2005g:81285
Bruzzo, Ugo (*with* Fucito, Francesco; Morales, José Francisco; Tanzini, Alessandro) Multi-instanton calculus and equivariant cohomology. (English summary) 2005a:81203
Căldăraru, Andrei (*with* Katz, Sheldon H.; Sharpe, Eric) D-branes, B fields, and Ext groups. (English summary) 2005f:81188
Calzetta, E. A. Two-particle irreducible effective action in gauge theories. (English summary) 2005m:81200
Cattaneo, Alberto S. (*with* Fröhlich, Jürg; Pedrini, Bill) Topological field theory interpretation of string topology. (English summary) 2005a:81204
Catterall, Simon (*with* Ghadab, Sofiane) Lattice sigma models with exact supersymmetry. (English summary) 2005d:81267
Constantinidis, Clisthenis P. (*with* Piguet, Olivier; Spalenza, Wesley) Superspace gauge fixing of topological Yang-Mills theories. (English summary) 2005e:81214
— *see also* Boldo, José Luís et al., 2005f:81224 *and* 2005g:81285
Controzzi, D. (*with* Mussardo, G.) Mass generation in perturbed massless integrable models. (English summary)
D'Auria, Riccardo (*with* Ferrara, Sergio; Trigiante, Mario; Vaulà, Silvia) Gauging the Heisenberg algebra of special quaternionic manifolds. (English summary) 2005j:81136
Duan, Yi Shi (*with* Liu, Yuxiao; Zhang, Li Jie[1]) Spinor field realizations of non-critical $W_{2,s}$ strings. (English summary) 2005g:81272
Evans, Jonathan M. (*with* Kagan, David; Young, Charles A. S.) Non-local charges and quantum integrability of sigma models on the symmetric spaces $SO(2n)/SO(n) \times SO(n)$ and $Sp(2n)/Sp(n) \times Sp(n)$. (English summary) 2005f:81138
Ferrara, Sergio *see* D'Auria, Riccardo et al., 2005j:81136
Fischbacher, Thomas Bulk Witten indices from $D = 10$ Yang-Mills integrals. (English summary) 2005c:81200
Flume, Rainald (*with* Poghossian, Rubik) Instanton calculations in $N = 2$ super Yang-Mills theory. (English summary) 2005g:81302
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Gieres, François *see* Boldo, José Luís et al., 2005f:81224 *and* 2005g:81285
Gomes, Márcio A. M. (*with* Landim, R. R.) Duality and field redefinition in three dimensions. (English summary) 2005m:81287
Grassi, Pietro Antonio (*with* Policastro, G.; van Nieuwenhuizen, Peter) An introduction to the covariant quantization of superstrings. (English summary) 2005c:81163
Grumiller, Daniel *see* Bergamin, Luzi et al., 2005b:83132
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Ikeda, Noriaki[2] (*with* Izawa, Ken-Iti) Dimensional reduction of nonlinear gauge theories. (English summary) 2005m:81288
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— Geometrical formulation of the conformal Ward identity. (English summary) 2005a:81199
Kadoh, Daisuke (*with* Kikukawa, Yoshio; Nakayama, Yoichi) Solving the local cohomology problem in U(1) chiral gauge theories within a finite lattice. (English summary) 2005k:81293
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Kalkkinen, J. (*with* Stelle, Kellogg S.) Large gauge transformations in M-theory. (English summary) 2005b:81147
Katz, Sheldon H. (*with* Sharpe, Eric) D-branes, open string vertex operators, and Ext groups. (English summary) 2005f:81186
— *see also* Căldăraru, Andrei et al., 2005f:81188
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Kunitomo, Hiroshi Hybrid superstring on AdS_3 and space-time superconformal symmetry. (English summary) 2005j:81152
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Vaulà, Silvia *see* D'Auria, Riccardo et al., 2005j:81136
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Aigner, F. (*with* Hillbrand, M.; Knapp, Johanna; Milovanovic, G.; Schöfbeck, R.; Schweda, M.; Putz, V.) Technical remarks and comments on the UV/IR-mixing problem of a noncommutative scalar quantum field theory. (English summary)
Álvarez-Gaumé, Luis (*with* Vázquez-Mozo, Miguel A.) General properties of non-commutative field theories. (English summary) 2005a:81238
Ambjørn, Jan (*with* Dubin, A. Yu.; Makeenko, Yu. M.) Wilson loops in 2D noncommutative Euclidean gauge theory. I. Perturbative expansion. (English summary) 2005d:81350
Amorim, Ricardo (*with* Braga, Nelson R. F.; Ferreira, Cristine N.) Nonequivalent Seiberg-Witten maps for noncommutative massive $U(N)$ gauge theory. (English summary) 2005b:81205
— (*with* Ferreira, Cristine N.; Godinho, Cresus F. L.) The non-commutative $U(N)$ Kalb-Ramond theory. (English summary) 2005c:81221
Anacleto, M. A. (*with* Gomes, Marcelo O. C.; da Silva, A. J.; Spehler, D.) Noncommutative correction to Aharonov-Bohm scattering: a field theory approach. (English summary) 2005i:81172
Aoki, Hajime (*with* Iso, Satoshi; Nagao, Keiichi) Ginsparg-Wilson relation and 't Hooft-Polyakov monopole on fuzzy 2-sphere. (English summary) 2005b:81206

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— (*with* Ito, Katsushi; Ohtsuka, Akihisa) Deformed supersymmetry in non(anti)commutative $\mathcal{N}=2$ supersymmetric U(1) gauge theory. (English summary) **2005h:81390**
Asano, E. A. (*with* Gomes, Marcelo O. C.; Rodrigues, A. G.; da Silva, A. J.) $(2+1)$-dimensional noncommutative CP^{N-1} model. (English summary) **2005d:81351**
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— (*with* Madore, John; Manousselis, Pantelis; Zoupanos, George) Dimensional reduction over fuzzy coset spaces. (English summary) **2005f:81256**
Azuma, Takehiro (*with* Bal, Subrata; Nagao, Keiichi; Nishimura, Jun[1]) Nonperturbative studies of fuzzy spheres in a matrix model with the Chern-Simons term. (English summary)
— (*with* Nagao, Keiichi; Nishimura, Jun[1]; Bal, Subrata) Absence of a fuzzy S^4 phase in the dimensionally reduced 5d Yang-Mills-Chern-Simons model. (English summary) **2005e:81243**
Bahns, Dorothea (*with* Doplicher, S.; Fredenhagen, Klaus; Piacitelli, Gherardo) Ultraviolet finite quantum field theory on quantum spacetime. (English summary) **2005b:81207**
— An ultraviolet-finite Hamiltonian approach on the noncommutative Minkowski space. (English summary) **2005c:81224**
Bak, Dongsu (*with* Kim, Seok) Troubles with spacetime noncommutative theories: tachyons or S-branes? (English summary) **2005d:81352**
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Banerjee, Rabin (*with* Lee, Choonkyu; Yang, Hyun Seok) Seiberg-Witten-type maps for currents and energy-momentum tensors in noncommutative gauge theories. (English summary) **2005h:81391**
— (*with* Chakraborty, Biswajit; Kumar, Kuldeep[2]) Noncommutative gauge theories and Lorentz symmetry. (English summary) **2005i:81173**
— (*with* Kim, Yoonbai; Kwon, O-Kab) Noncommutative tachyon kinks as $D(p-1)$-branes from unstable Dp-brane. (English summary) **2005k:81337**
— (*with* Kumar, Kuldeep[2]) Maps for currents and anomalies in noncommutative gauge theories. (English summary) **2005m:81320**
Banin, A. T. (*with* Bukhbinder, I. L.; Pletnev, Nikolai G.) Chiral effective potential in $\mathcal{N}=1/2$ non-commutative Wess-Zumino model. (English summary) **2005g:81327**
Bazzocchi, F. (*with* Cirafici, M.; Maccaferri, Carlo; Profumo, S.) Matrix models of noncommutative 3D lattice gauge theories. (English summary) **2005e:81244**
Behr, W. (*with* Sykora, A.) NC Wilson lines and the inverse Seiberg-Witten map for non-degenerate star products. (English summary) **2005c:81225**
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Bietenholz, Wolfgang (*with* Hofheinz, Frank; Nishimura, Jun[1]) The non-commutative $\lambda\varphi^4$ model. (English summary) **2005b:81208**
— (*with* Hofheinz, Frank; Nishimura, Jun[1]) On the relation between non-commutative field theories at $\theta=\infty$ and large N matrix field theories. (English summary) **2005c:81226**
— (*with* Hofheinz, Frank; Nishimura, Jun[1]) Phase diagram and dispersion relation of the non-commutative $\lambda\varphi^4$ model in $d=3$. (English summary) **2005d:81353**
— (*with* Bigarini, A.; Hofheinz, Frank; Nishimura, Jun[1]; Susaki, Y.; Volkholz, J.) Numerical results for U(1) gauge theory on 2d and 4d non-commutative spaces. (English summary) **2005m:81321**
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de Brito, L. C. T. (*with* Gomes, Marcelo O. C.; Perez, Silvana; da Silva, A. J.) Radiative corrections to the Chern-Simons term at finite temperature in the noncommutative Chern-Simons-Higgs model. (English summary) **2005g:81328**
Britto-Pacumio, Ruth A. (*with* Feng, Bo[1]) $\mathcal{N}=\frac{1}{2}$ Wess-Zumino model is renormalizable. (English summary) **2005a:81239**
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Calmet, Xavier What are the bounds on space-time non-commutativity? (English summary) **2005k:81339**
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Chaichian, Masud (*with* Kulish, Petr Petrovich; Nishijima, Kazuhiko; Tureanu, A.) On a Lorentz-invariant interpretation of noncommutative space-time and its implications on noncommutative QFT. (English summary) **2005i:81174**
Chakraborty, Biswajit (*with* Gangopadhyay, Sunandan; Saha, Anirban) Seiberg-Witten map and Galilean symmetry violation in a noncommutative planar system. (English summary) **2005h:81394**
— *see also* **Banerjee, Rabin et al., 2005i:81173**
Chandrasekhar, B. $D=2$, $\mathcal{N}=2$ supersymmetric σ models on non(anti)commutative superspace. (English summary) **2005j:81194**
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— (*with* Fosco, Cesar Daniel; Schaposnik, Fidel A.; Torroba, Gonzalo) On coordinate transformations in planar noncommutative theories. (English summary) **2005h:81395**
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— (*with* Frenkel, Josif) Kontsevich product and gauge invariance. (English summary) **2005f:81258**
Dayi, Ömer F. (*with* Yapişkan, Barış) Equivalence of partition functions for noncommutative U(1) gauge theory and its dual in phase space. (English summary) **2005i:81175**
Delgadillo-Blando, R. *see* **Castro-Villarreal, P. et al., 2005j:81193**
Demidov, S. V. (*with* Dubovskiĭ, S. L.; Rubakov, V. A.; Sibiryakov, S. M.) Solitons in gauge theory on a noncommutative cylinder. (Russian. Russian summary) **2005a:81242**
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Di Grezia, Elisabetta (*with* Esposito, Salvatore) Minimal coupling of the Kalb-Ramond field to a scalar field. (English summary)
Dimitrijević, Marija (*with* Jonke, Larisa; Möller, Lutz; Tsouchnika, Efrossini; Wess, Julius; Wohlgenannt, Michael) Field theory on kappa-spacetime. (English summary)
— (*with* Meyer, Frank; Möller, Lutz; Wess, Julius) Gauge theories on the κ-Minkowski spacetime. (English summary)
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— *see also* **Demidov, S. V. et al., 2005a:81242**
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Fatollahi, A. H. (*with* Mohammadzadeh, H.) On the classical dynamics of charges in non-commutative QED. (English summary)
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— (*with* Torroba, Gonzalo) Planar field theories with space-dependent noncommutativity. (English summary) **2005k:81341**
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Ghosh, Subir Spacetime symmetries in noncommutative gauge theory: a Hamiltonian analysis. (English summary) **2005f:81259**
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— (*with* Jonsson, Thordur; Thorlacius, Lárus) The Seiberg-Witten map on the fuzzy sphere. (English summary) **2005c:81229**
— (*with* Grosse, Harald; Popp, L.; Putz, V.; Schweda, M.; Wickenhauser, M.; Wulkenhaar, Raimar) IR singularities in noncommutative perturbative dynamics? (English summary)
— (*with* Kloiböck, B.; Popp, L.; Schweda, M.; Wickenhauser, M.; Putz, V.) The energy-momentum tensor in noncommutative gauge field models. (English summary) **2005h:81402**
— *see also* **Bichl, A. A. et al., 2005e:81245**
Grisaru, Marcus T. (*with* Penati, Silvia; Romagnoni, Alberto) Nonanticommutative superspace and $N=1/2$ WZ model. (English summary) **2005b:81212**
Grosse, Harald (*with* Wulkenhaar, Raimar) Renormalisation of noncommutative quantum field theories. (English summary)
— (*with* Wulkenhaar, Raimar) The β-function in duality-covariant non-commutative φ^4-theory. (English summary) **2005b:81213**

— *see also* **Bichl, A. A. et al., 2005e:81245** *and* **Grimstrup, Jesper Møller et al.**
Guimarães, M. S. (*with* Rodrigues, D. C.; Wotzasek, C.; Noronha, J. L.) On duality of the noncommutative extension of the Maxwell-Chern-Simons model. (English summary) **2005h:81403**
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Horváthy, Peter A. (*with* Martina, L.; Stichel, P. C.) Galilean noncommutative gauge theory: symmetries and vortices. (English summary) **2005a:81245**
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Ikemori, Hitoshi *see* **Otsu, Hideharu et al., 2005e:81250**
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Isidro, José María[2] Noncommutative manifolds from the Higgs sector of coincident D-branes. (English summary) **2005m:81323**
Iso, Satoshi (*with* Umetsu, Hiroshi) Gauge theory on a noncommutative supersphere from a supermatrix model. (English summary) **2005f:81262**
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— (*with* Takayama, Yastoshi; Tomino, Dan) Wilson line correlators in $\mathcal{N} = 4$ non-commutative gauge theory on $S^2 \times S^2$. (English summary) **2005m:81324**
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— (*with* Szabo, Richard J.; Zarembo, Konstantin) Exact solution of quantum field theory on noncommutative phase spaces. (English summary) **2005a:81249**
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— Noncommutative sine-Gordon model. (English summary) **2005m:81325**
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Lee, Ki-Myeong Chern-Simons solitons, chiral model, and (affine) Toda model on noncommutative space. (English summary) **2005h:81404**
Levell, Jonathan (*with* Travaglini, Gabriele) Effective actions, Wilson lines and the IR/UV mixing in noncommutative supersymmetric gauge theories. (English summary) **2005a:81250**
Liao, Yi[2] (*with* Sibold, Klaus) On double gauging of U(1) symmetry on noncommutative space. (English summary) **2005a:81251**
Lindström, Ulf *see* **Hadasz, Leszek et al., 2005g:81329**
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Madore, John *see* **Aschieri, Paolo et al., 2005c:81223** *and* **2005f:81256**
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Mandanici, Gianluca Cornwall-Jackiw-Tomboulis effective potential for canonical noncommutative field theories. (English summary) **2005e:81248**
— (*with* Marcianò, Antonino) Heisenberg evolution in a quantum theory of noncommutative fields. (English summary) **2005g:81332**
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Mariz, T. (*with* Menezes, Roberto; Nascimento, J. R. S.; Ribeiro, R. F.; Wotzasek, C.) Issues of duality on noncommutative manifolds: the nonequivalence between self-dual and topologically massive models. (English summary) **2005h:81405**
Martin, Xavier A matrix phase for the φ^4 scalar field on the fuzzy sphere. (English summary) **2005b:81215**
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Mesref, L. A map between q-deformed and ordinary gauge theories. (English summary) **2005e:81249**
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— *see also* **Dimitrijević, Marija et al.**
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Nakayama, Ryuichi (*with* Shimono, Yusuke) Matrix configurations for spherical 4-branes and non-commutative structures on S^4. (English summary) **2005k:81343**
— (*with* Shimono, Yusuke) Non-commutative field theory on S^4. (English summary) **2005h:81406**
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Nazaryan, Vahagn (*with* Carlson, Carl E.) Field theory in noncommutative Minkowski superspace. (English summary) **2005k:81344**
Neves, C. (*with* Oliveira, Wilson; Rodrigues, D. C.; Wotzasek, C.) Hamiltonian symplectic embedding of the massive noncommutative U(1) theory. (English summary) **2005f:81268**
— (*with* Oliveira, Wilson; Rodrigues, D. C.; Wotzasek, C.) Embedding commutative and noncommutative theories in the symplectic framework. (English summary) **2005d:81359**
Nishijima, Kazuhiko *see* **Chaichian, Masud et al., 2005i:81174**
Nishimura, Jun[1] *see* **Bietenholz, Wolfgang et al., 2005b:81208**; **2005c:81226**; **2005d:81353**; **2005m:81321** *and* **Azuma, Takehiro et al., 2005e:81243**
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Panigrahi, Prasanta K. (*with* Shreecharan, Tangirala) Induced magnetic moment in noncommutative Chern-Simons scalar QED. (English summary) **2005k:81345**
Patil, Subodh P. D0 matrix mechanics: new fuzzy solutions at large N. (English summary) **2005k:81346**
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Reichenbach, Tobias Violation of remaining Lorentz symmetry in the approach of time-ordered perturbation theory to space-time noncommutativity. (English summary) **2005h:81408**
— Retarded functions in noncommutative theories. (English summary) **2005k:81347**
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Rim, Chaiho (*with* Seo, Yunseok; Yee, Jae Hyung) Perturbation theory of the space-time noncommutative real scalar field theories. (English summary) **2005f:81269**
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Silva, Guillermo A. *see* **Correa, Diego H. et al., 2005f:81257**
Slavnov, A. A. A gauge-invariant U(1)-model on a noncommutative plane in an axial gauge. (Russian. Russian summary) **2005i:81177**
Smailagic, Anais (*with* Spallucci, Euro) Lorentz invariance, unitarity and UV-finiteness of QFT on noncommutative spacetime. (English summary) **2005c:81235**
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— Exact solution of noncommutative U(1) gauge theory in 4 dimensions. (English summary) **2005f:81270**
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Items with secondary classifications in 81T75

Abe, Yasuhiro (*with* Nair, V. P.) Noncommutative gravity: fuzzy sphere and others. (English summary) **2005d:83090**
Aldrovandi, L. G. (*with* Correa, Diego H.; Schaposnik, Fidel A.; Silva, Guillermo A.) Bogomol'nyi-Prasad-Sommerfield analysis of gauge-field–Higgs models in nonanticommutative superspace. (English summary) **2005j:81173**
Amorim, Ricardo (*with* Farias, Franz A.) Hamiltonian BRST quantization of a noncommutative non-abelian gauge theory and its Seiberg-Witten map. (English summary) **2005h:81385**
Araki, Takeo (*with* Ito, Katsushi; Ohtsuka, Akihisa) $\mathcal{N} = 2$ supersymmetric U(1) gauge theory in noncommutative harmonic superspace. (English summary) **2005e:81225**
Balachandran, Aiyalam P. (*with* Immirzi, Giorgio) Duality in fuzzy sigma models. (English summary) **2005g:81156**
Barbosa, G. D. Noncommutative conformally coupled scalar field cosmology and its commutative counterpart. (English summary) **2005k:83099**
Barnich, Glenn (*with* Brandt, Friedemann; Grigor'ev, M. A.) Local BRST cohomology and Seiberg-Witten maps in noncommutative Yang-Mills theory. (English summary) **2005d:81348**
Bellucci, Stefano (*with* Bukhbinder, I. L.; Krykhtin, V. A.) Renormalization of the energy-momentum tensor in noncommutative complex scalar field theory. (English summary) **2005b:81106**
Brandt, Friedemann *see* **Barnich, Glenn et al., 2005d:81348**
Brecher, Dominic (*with* Furuuchi, Kazuyuki; Ling, Henry; Van Raamsdonk, Mark) Generally covariant actions for multiple D-branes. (English summary) **2005c:81154**
Bukhbinder, I. L. *see* **Bellucci, Stefano et al., 2005b:81106**
Cook, Paul L. H. (*with* de Mello Koch, Robert; Murugan, Jeff) Non-Abelian Blonic brane intersections. (English summary) **2005a:81167**
Correa, Diego H. *see* **Aldrovandi, L. G. et al., 2005j:81173**
Dolan, Brian P. (*with* O'Connor, Denjoe) A fuzzy three sphere and fuzzy tori. (English summary) **2005d:81203**
— (*with* O'Connor, Denjoe; Prešnajder, Peter) Fuzzy complex quadrics and spheres. (English summary) **2005c:81102**
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Ferrara, Sergio (*with* Ivanov, Evgeniĭ Alekseevich[2]; Lechtenfeld, Olaf; Sokatchev, E.; Zupnik, B. M.) Non-anticommutative chiral singlet deformation of $N = (1, 1)$ gauge theory. (English summary) **2005h:81364**
Ferrari, A. F. (*with* Girotti, H. O.; Gomes, Marcelo O. C.; Petrov, A. Yu.; Ribeiro, Anderson André Genro; da Silva, A. J.) On the consistency of the three-dimensional noncommutative supersymmetric Yang-Mills theory. (English summary) **2005g:81199**
— (*with* Girotti, H. O.; Gomes, Marcelo O. C.; Petrov, A. Yu.; Ribeiro, Anderson André Genro; Rivelles, Victor O.; da Silva, A. J.) Superfield covariant analysis of the divergence structure of noncommutative supersymmetric QED_4. (English summary) **2005f:81159**
— (*with* Girotti, H. O.; Gomes, Marcelo O. C.; Petrov, A. Yu.; Ribeiro, Anderson André Genro; Rivelles, Victor O.; da Silva, A. J.) Towards a consistent noncommutative supersymmetric Yang-Mills theory: Superfield covariant analysis. (English summary) **2005h:81365**
Furuuchi, Kazuyuki *see* **Brecher, Dominic et al., 2005c:81154**
Gates, S. James, Jr. (*with* Jellal, Ahmed; Saidi, El Hassan; Schreiber, Michael) Supersymmetric embedding of the quantum Hall matrix model. (English summary) **2005j:81182**
Girotti, H. O. *see* **Ferrari, A. F. et al., 2005f:81159; 2005g:81199** *and* **2005h:81365**
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Grassi, Pietro Antonio (*with* Ricci, Riccardo[2]; Robles-Llana, Daniel) Instanton calculations for $N = 1/2$ super Yang-Mills theory. (English summary) **2005d:81335**
Grigor'ev, M. A. *see* **Barnich, Glenn et al., 2005d:81348**
Grisaru, Marcus T. (*with* Mazzanti, Liuba; Penati, Silvia; Tamassia, Laura) Some properties of the integrable noncommutative sine-Gordon system. (English summary) **2005b:81055**
Grosse, Harald (*with* Wulkenhaar, Raimar) Regularization and renormalization of quantum field theories on noncommutative spaces. (English summary) **2005m:81207**
— (*with* Wulkenhaar, Raimar) Renormalisation of scalar quantum field theory on noncommutative $\mathbb{R}^4$. (English summary) **2005m:81208**
Gubser, Steven S. The Gregory-Laflamme instability for the D2-D0 bound state. (English summary) **2005k:83158**
Hashimoto, Koji The shape of nonabelian D-branes. (English summary) **2005b:81141**
Hatanaka, Tomoya (*with* Ketov, Sergei V.; Kobayashi, Yoshishige; Sasaki, Shin) Non-anti-commutative deformation of effective potentials in supersymmetric gauge theories. (English summary) **2005m:81306**
Hou, Bo-Yu (*with* Peng, Dan-Tao; Shi, Kang-Jie; Yue, Rui-Hong) Solitons on noncommutative torus as elliptic Calogero-Gaudin models, branes and Laughlin wave functions. (English summary) **2005b:81056**
Ihl, Matthias (*with* Kling, Alexander; Uhlmann, Sebastian) String field theory projectors for fermions of integral weight. (English summary) **2005f:81185**
Imai, Kouhei (*with* Morita, Katsusada; Okumura, Yoshitaka) BRST symmetry and the scale transformation of ghost fields in gauge theory on NC spacetime. (English summary)
Imai, Takaaki (*with* Takayama, Yastoshi) Stability of fuzzy $S^2 \times S^2$ geometry in IIB matrix model. (English summary) **2005a:81171**
Immirzi, Giorgio *see* **Balachandran, Aiyalam P., 2005g:81156**
Inami, Takeo (*with* Nakajima, Hiroaki) Supersymmetric $\mathbf{CP}^N$ sigma model on noncommutative superspace. (English summary) **2005d:81339**

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Ivanov, Evgeniĭ Alekseevich[2] *see* **Ferrara, Sergio et al., 2005h:81364**
Ivanova, T. A. (*with* Lechtenfeld, Olaf; Müller-Ebhardt, Helge) Noncommutative moduli for multi-instantons. (English summary)
— (*with* Lechtenfeld, Olaf) Noncommutative instantons in $4k$ dimensions. (English summary) **2005m:81164**
Janssen, Bert (*with* Lozano, Yolanda; Rodriguez-Gómez, Diego) Giant gravitons and fuzzy CP^2. (English summary) **2005k:83160**
Jellal, Ahmed *see* **Gates, S. James, Jr. et al., 2005j:81182**
Kanamori, Issaku (*with* Kawamoto, Noboru) Dirac-Kähler fermion from Clifford product with noncommutative differential form on a lattice. (English summary) **2005f:81118**
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Ketov, Sergei V. (*with* Sasaki, Shin) Non-anticommutative $N = 2$ supersymmetric SU(2) gauge theory. (English summary) **2005e:81234**
— *see also* **Hatanaka, Tomoya et al., 2005m:81306**
Kimura, Yusuke Myers effect and tachyon condensation. (English summary) **2005d:81287**
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— (*with* Mazzanti, Liuba; Penati, Silvia; Popov, Alexander D.; Tamassia, Laura) Integrable noncommutative sine-Gordon model. (English summary) **2005i:81058**
— *see also* **Ferrara, Sergio et al., 2005h:81364** *and* **Ivanova, T. A. et al., 2005m:81164**
Liao, Yi[2] On evaluation of nonplanar diagrams in noncommutative field theory. (English summary) **2005k:81186**
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Moon, Kyungsun (*with* Pasquier, Vincent; Rim, Chaiho; Yeo, Joonhyun) Non-commutative field theory approach to two-dimensional vortex liquid system. (English summary) **2005d:82133**
Morita, Katsusada A new gauge-invariant regularization scheme based on Lorentz-invariant noncommutative quantum field theory. (English summary) **2005d:81252**
— *see also* **Imai, Kouhei et al.**
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Murugan, Jeff *see* **Cook, Paul L. H. et al., 2005a:81167**
Myers, Robert C. Low energy D-brane actions. (English summary) **2005j:81159**
Nair, V. P. *see* **Abe, Yasuhiro, 2005d:83090**
Nakajima, Hiroaki *see* **Inami, Takeo, 2005d:81339**
Nekrasov, Nikita A. Noncommutative instantons revisited. (English summary) **2005b:81076**
O'Connor, Denjoe *see* **Dolan, Brian P. et al., 2005c:81102** *and* **2005d:81203**
Ohtsuka, Akihisa *see* **Araki, Takeo et al., 2005e:81225**
Okumura, Yoshitaka *see* **Imai, Kouhei et al.**
Park, Jeong-Hyuck Superfield theory and supermatrix model. (English summary) **2005m:81312**
Pasquier, Vincent *see* **Moon, Kyungsun et al., 2005d:82133**
Penati, Silvia *see* **Grisaru, Marcus T. et al., 2005b:81055** *and* **Lechtenfeld, Olaf et al., 2005i:81058**
Peng, Dan-Tao *see* **Hou, Bo-Yu et al., 2005b:81056**
Petrov, A. Yu. *see* **Ferrari, A. F. et al., 2005f:81159; 2005g:81199** *and* **2005h:81365**
Popov, Alexander D. (*with* Sergeev, Armen G.; Wolf, Martin) Seiberg-Witten monopole equations on noncommutative $\mathbb{R}^4$. (English summary) **2005g:81159**
— *see also* **Lechtenfeld, Olaf et al., 2005f:81119; 2005g:81158** *and* **2005i:81058**
Prešnajder, Peter *see* **Dolan, Brian P. et al., 2005c:81102**
Ribeiro, Anderson André Genro *see* **Ferrari, A. F. et al., 2005f:81159; 2005g:81199** *and* **2005h:81365**
Ricci, Riccardo[2] *see* **Grassi, Pietro Antonio et al., 2005d:81335**
Rim, Chaiho *see* **Moon, Kyungsun et al., 2005d:82133**
Rivelles, Victor O. *see* **Ferrari, A. F. et al., 2005f:81159** *and* **2005h:81365**
Robles-Llana, Daniel *see* **Grassi, Pietro Antonio et al., 2005d:81335**
Rodríguez-Gómez, Diego *see* **Janssen, Bert et al., 2005k:83160**
Romero, Juan M. (*with* Zamora, Adolfo) Snyder noncommutative space-time from two-time physics. (English summary) **2005i:83084**
— (*with* Santiago, J. A.) Cosmological constant and noncommutativity: a Newtonian point of view. (English summary) **2005k:83101**
Safarzadeh, Batool On the Seiberg-Witten map of $\mathcal{N} = 2$ SYM theory in non(anti)commutative harmonic superspace. (English summary) **2005k:81327**
Saidi, El Hassan *see* **Gates, S. James, Jr. et al., 2005j:81182**
Sämann, Christian (*with* Wolf, Martin) Constraint and super Yang-Mills equations on the deformed superspace $\mathbb{R}_h^{(4|16)}$. (English summary) **2005e:81237**
Santiago, J. A. *see* **Romero, Juan M., 2005k:83101**
Sasaki, Shin *see* **Ketov, Sergei V., 2005e:81234** *and* **Hatanaka, Tomoya et al., 2005m:81306**
Schaposnik, Fidel A. *see* **Aldrovandi, L. G. et al., 2005j:81173**
Schreiber, Michael *see* **Gates, S. James, Jr. et al., 2005j:81182**
Schücker, Thomas Noncommutative geometry and the standard model. (English summary) **2005m:81344**
Sergeev, Armen G. *see* **Popov, Alexander D. et al., 2005g:81159**
Serié, Emmanuel (*with* Masson, Thierry; Kerner, Richard) Non-abelian generalization of Born-Infeld theory inspired by noncommutative geometry. (English summary) **2005b:83075**
Shi, Kang-Jie *see* **Hou, Bo-Yu et al., 2005b:81056**
Shin, Hyeonjoon (*with* Yoshida, Kentaroh) Membrane fuzzy sphere dynamics in plane-wave matrix model. (English summary) **2005i:81144**
da Silva, A. J. *see* **Ferrari, A. F. et al., 2005f:81159; 2005g:81199** *and* **2005h:81365**
Silva, Guillermo A. *see* **Aldrovandi, L. G. et al., 2005j:81173**
Sokatchev, E. *see* **Ferrara, Sergio et al., 2005h:81364**
Song, Xing-Chang *see* **Yu, Tian[1] et al., 2005d:81208**
Szabo, Richard J. Magnetic backgrounds and noncommutative field theory. (English summary) **2005d:81206**
— *see also* **Lechtenfeld, Olaf et al., 2005f:81119**
Takayama, Yastoshi *see* **Imai, Takaaki, 2005a:81171**
Tamassia, Laura *see* **Grisaru, Marcus T. et al., 2005b:81055** *and* **Lechtenfeld, Olaf et al., 2005i:81058**
Uhlmann, Sebastian *see* **Ihl, Matthias et al., 2005f:81185**
Uvarov, Dmitriy V. (*with* Zheltukhin, Aleksandr A.) Hamiltonian structure and non-commutativity in p-brane models with exotic supersymmetry. (English summary) **2005c:81184**
Valtancoli, P. Projectors, matrix models and noncommutative instantons. (English summary) **2005m:81168**
Van Raamsdonk, Mark *see* **Brecher, Dominic et al., 2005c:81154**
Vernov, Yu. S. (*with* Mnatsakanova, M. N.) Dispersion relations for the elastic forward scattering amplitude in noncommutative quantum field theory. (Russian. Russian summary) **2005f:81287**
Wolf, Martin *see* **Sämann, Christian, 2005e:81237** *and* **Popov, Alexander D. et al., 2005g:81159**
Wulkenhaar, Raimar *see* **Grosse, Harald, 2005m:81207** *and* **2005m:81208**
Yeo, Joonhyun *see* **Moon, Kyungsun et al., 2005d:82133**
Yoshida, Kentaroh *see* **Shin, Hyeonjoon, 2005i:81144**
Yu, Tian[1] (*with* Zhu, Chuan-Jie) Instantons on general noncommutative $\mathbb{R}^4$. (English summary) **2005d:81207**
— (*with* Zhu, Chuan-Jie; Song, Xing-Chang) Topological charge of noncommutative ADHM instanton. (English summary) **2005d:81208**
Yue, Rui-Hong *see* **Hou, Bo-Yu et al., 2005b:81056**
Zamora, Adolfo *see* **Romero, Juan M., 2005i:83084**
Zheltukhin, Aleksandr A. *see* **Uvarov, Dmitriy V., 2005c:81184**
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81T80 Simulation and numerical modeling

Items with secondary classifications in 81T80

del Aguila, Francisco (*with* Pittau, Roberto) Recursive numerical calculus of one-loop tensor integrals. (English summary) **2005e:81145**
Azuma, Takehiro (*with* Bal, Subrata; Nagao, Keiichi; Nishimura, Jun[1]) Nonperturbative studies of fuzzy spheres in a matrix model with the Chern-Simons term. (English summary)
Bal, Subrata *see* **Azuma, Takehiro et al.**
Bittner, Elmar (*with* Janke, Wolfhard) Generalized complex $|\psi|^4$ model. (English summary) **2005a:81134**
Caselle, Michele (*with* Hasenbusch, Martin; Panero, Marco) Short distance behaviour of the effective string. (English summary) **2005d:81276**
Di Renzo, Francesco (*with* Mantovi, Andrea; Miccio, Vincenzo; Schröder, York) 3-d lattice Yang-Mills free energy to four loops. (English summary)
Harada, Motomichi (*with* Hiller, John R.; Pinsky, Stephen; Salwen, Nathan) Improved results for $\mathcal{N} = (2, 2)$ super Yang-Mills theory using supersymmetric discrete light-cone quantization. (English summary) **2005h:81369**
Hasenbusch, Martin *see* **Caselle, Michele et al., 2005d:81276**
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Janke, Wolfhard *see* **Bittner, Elmar, 2005a:81134**
Kadoh, Daisuke (*with* Kikukawa, Yoshio) A numerical solution to the local cohomology problem in U(1) chiral gauge theories. (English summary) **2005k:81294**
Kikukawa, Yoshio *see* **Kadoh, Daisuke, 2005k:81294**
Lucini, Biagio (*with* Teper, Michael; Wenger, Urs) Glueballs and k-strings in SU(N) gauge theories: calculations with improved operators. (English summary) **2005c:81138**
Mantovi, Andrea *see* **Di Renzo, Francesco et al.**
Martin, Xavier A matrix phase for the φ^4 scalar field on the fuzzy sphere. (English summary) **2005b:81215**
Miccio, Vincenzo *see* **Di Renzo, Francesco et al.**
Nagao, Keiichi *see* **Azuma, Takehiro et al.**
Narayanan, Rajamani S. (*with* Neuberger, H.) Chiral symmetry breaking at large N_c. (English summary) **2005d:81199**
Neuberger, H. *see* **Narayanan, Rajamani S., 2005d:81199**
Nishimura, Jun[1] *see* **Azuma, Takehiro et al.**
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Pittau, Roberto *see* **del Aguila, Francisco, 2005e:81145**
Salwen, Nathan *see* **Harada, Motomichi et al., 2005h:81369**
Schröder, York *see* **Di Renzo, Francesco et al.**
Smiseth, J. *see* **Smørgrav, E. et al., 2005f:81148**
Smørgrav, E. (*with* Smiseth, J.; Sudbø, A.; Nogueira, F. S.) Phase structure of abelian Chern-Simons gauge theories. **2005f:81148**
Sudbø, A. *see* **Smørgrav, E. et al., 2005f:81148**
Teper, Michael *see* **Lucini, Biagio et al., 2005c:81138**
Wenger, Urs *see* **Lucini, Biagio et al., 2005c:81138**

81T99 None of the above, but in this section

Acatrinei, Ciprian Bilocal dynamics in quantum field theory. (English summary)
Das, Ashok (*with* Perez, Silvana) Quantization in a general light-front frame. (English summary) **2005j:81197**
Davies, Paul C. W. Quantum vacuum friction. (English summary)
De Haan, Michel Field theory reformulated without self-energy parts: the dressing operator. (English summary) **2005g:81334**
Doplicher, Luisa Generalized Tomonaga-Schwinger equation from the Hadamard formula. (English summary) **2005h:81410**
Faĭnberg, V. Ya. *see* **Valverde, J. S. et al.**
Georgii, Hans-Otto *see* **Tumulka, Roderich, 2005m:81329**
Ioannidou, Theodora (*with* Kouiroukidis, A.; Vlachos, N. D.) Universality in a class of Q-balls solutions: an analytic approach. (English summary) **2005k:81349**
Jing, Jian On the boundary conditions as Dirac constraints. (English summary) **2005j:81198**
Kouiroukidis, A. *see* **Ioannidou, Theodora et al., 2005k:81349**
Kuvshinov, V. I. (*with* Kuzmin, Andrei Vladimirovich) Deterministic chaos in quantum field theory. (English summary) **2005h:81411**
Kuwata, S. Born-Infeld Lagrangian using Cayley-Dickson algebras. (English summary) **2005c:81236**
Kuzmin, Andrei Vladimirovich *see* **Kuvshinov, V. I., 2005h:81411**
Li, Zi Ping *see* **Zhang, Ying[8], 2005g:81336**
Miller, Travis R. (*with* Ogilvie, Michael C.) Nonequilibrium aspects of quantum field theory. (English summary)
Morgan, Peter W. A succinct presentation of the quantized Klein-Gordon field, and a similar quantum presentation of the classical Klein-Gordon random field. (English summary) **2005i:81178**
Nikolić, Hrvoje Bohmian particle trajectories in relativistic bosonic quantum field theory. (English summary)
— Bohmian particle trajectories in relativistic fermionic quantum field theory. (English summary) **2005m:81327**
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Ostrowski, Marcin Casimir effect for Tachyonic fields. (English summary)
Pearle, Philip Quasirelativistic quasilocal finite wave-function collapse model. (English summary) **2005m:81328**
Pechen′, A. N. On an asymptotic expansion in quantum theory. (Russian) **2005d:81360**
Perez, Silvana *see* **Das, Ashok, 2005j:81197**
Pimentel, B. M. *see* **Valverde, J. S. et al.**
Shi, Yu Entanglement in relativistic quantum field theory. (English summary) **2005i:81179**
Shirai, Tomoyuki (*with* Takahashi, Yoichiro) Random point fields associated with fermion, boson and other statistics. (English summary) (*see* **2005a:60007**)
Takahashi, Yoichiro *see* **Shirai, Tomoyuki, (2005a:60007)**
Tumulka, Roderich (*with* Georgii, Hans-Otto) Some jump processes in quantum field theory. (English summary) **2005m:81329**
Valverde, J. S. (*with* Pimentel, B. M.; Faĭnberg, V. Ya.) Equivalence of multiphoton Green functions in the Duffing-Kemmer-Petiau and Klein-Gordon-Fock statistical quantum field theories. (Russian. Russian summary)
Vasil′ev, M. A. (*with* Zaikin, V. N.) Sp($2M$)-invariant Green functions. (English summary) **2005d:81361**
Vitiello, Giuseppe Classical chaotic trajectories in quantum field theory. (English summary) **2005b:81219**
Vlachos, N. D. *see* **Ioannidou, Theodora et al., 2005k:81349**
Yamaguchi, Yoshio Quantum mechanics and quantum field theories in the quantized space. I. Basic formalism. (English summary) **2005g:81335**
Zaikin, V. N. *see* **Vasil′ev, M. A., 2005d:81361**
Zhang, Ying[8] (*with* Li, Zi Ping) Quantal Poincaré-Cartan integral invariant for field theory. (English summary) **2005g:81336**

Items with secondary classifications in 81T99

Aquino, N. (*with* Castaño, Eleuterio; Ley-Koo, E.; Ulloa, S. E.) Classical wave equation scalar normal modes and Green functions for confocal hyperboloidal electrodes. (English and Spanish summaries) **2005b:35164**
Arimitsu, Toshihico *see* **Kobryn, A. E. et al., 2005h:81183**
Atiyah, Michael On the unreasonable effectiveness of physics in mathematics. (English summary) **2005d:00010**
Brodsky, Stanley J. *see* **Raufeisen, Jörg, 2005i:82037**
Brouder, Christian (*with* Fauser, Bertfried; Frabetti, Alessandra; Oeckl, Robert) Quantum field theory and Hopf algebra cohomology. (English summary) **2005f:81252**
Casini, H. (*with* Huerta, Marina) A finite entanglement entropy and the c-theorem. (English summary) **2005e:81023**
Castaño, Eleuterio *see* **Aquino, N. et al., 2005b:35164**
Chen, B. *see* **Wang, Zhi Yong et al., 2005c:81016**
Diemer, Tammo ★ Conformal geometry, representation theory and linear fields. **2005h:53018**
Dürr, Detlef (*with* Goldstein, Sheldon; Tumulka, Roderich; Zanghì, Nino) Trajectories and particle creation and annihilation in quantum field theory. (English summary) **2005d:81013**
— (*with* Goldstein, Sheldon; Tumulka, Roderich; Zanghì, Nino) Bohmian mechanics and quantum field theory. (English summary) **2005h:81016**
Fauser, Bertfried *see* **Brouder, Christian et al., 2005f:81252**
Frabetti, Alessandra *see* **Brouder, Christian et al., 2005f:81252**
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Hayashi, Toshiharu *see* **Kobryn, A. E. et al., 2005h:81183**
Huerta, Marina *see* **Casini, H., 2005e:81023**
Khrennikov, Andrei Yu. ★ Неархимедов анализ и его приложения. (Russian) [Non-Archimedean analysis and its applications] **2005c:46111**
— p-adic discrete dynamical systems and their applications in physics and cognitive sciences. (English summary) **2005m:37110**
Kobryn, A. E. (*with* Hayashi, Toshiharu; Arimitsu, Toshihico) Quantum stochastic differential equations for boson and fermion systems—method of non-equilibrium thermo field dynamics. (English summary) **2005h:81183**
de León, Manuel (*with* Martín de Diego, David; Santamaría-Merino, Aitor) Symmetries in classical field theory. (English summary) **2005j:70059**
Ley-Koo, E. *see* **Aquino, N. et al., 2005b:35164**
Loewe, Marcelo (*with* Mendizabal, S.; Rojas, J. C.) Topological field configurations in the presence of isospin chemical potential. (English summary) **2005h:81217**
Luban, Marshall *see* **Martinovič, L'ubomír, 2005h:81254**
Martín de Diego, David *see* **de León, Manuel et al., 2005j:70059**
Martinovič, L'ubomír (*with* Luban, Marshall) Analytic solution of the microcausality problem in discretized light cone quantization. (English summary) **2005h:81254**
Mendizabal, S. *see* **Loewe, Marcelo et al., 2005h:81217**
Mintchev, M. (*with* Sorba, P.) Finite temperature quantum field theory with impurities. (English summary) **2005h:81163**
Oeckl, Robert *see* **Brouder, Christian et al., 2005f:81252**
Raufeisen, Jörg (*with* Brodsky, Stanley J.) Statistical physics and light-front quantization. (English summary) **2005i:82037**
Rojas, J. C. *see* **Loewe, Marcelo et al., 2005h:81217**
Santamaría-Merino, Aitor *see* **de León, Manuel et al., 2005j:70059**
Sorba, P. *see* **Mintchev, M., 2005h:81163**
Tumulka, Roderich *see* **Dürr, Detlef et al., 2005d:81013** *and* **2005h:81016**
Ulloa, S. E. *see* **Aquino, N. et al., 2005b:35164**
Wang, Zhi Yong (*with* Chen, B.; Xiong, C. D.) Time in quantum mechanics and quantum field theory. (English summary) **2005c:81016**
Xiong, C. D. *see* **Wang, Zhi Yong et al., 2005c:81016**
Zanghì, Nino *see* **Dürr, Detlef et al., 2005d:81013** *and* **2005h:81016**

81Uxx Scattering theory [see also 34A55, 34L25, 34L40, 35P25, 47A40]

81U05 2-body potential scattering theory [see also 34E20 for WKB methods]

Adami, Riccardo (*with* Figari, Rodolfo; Finco, Domenico; Teta, Alessandro) On the asymptotic behaviour of a quantum two-body system in the small mass ratio limit. (English summary) **2005h:81412**
Alhaidari, A. D. Corrigendum: "Scattering phase shift for relativistic exponential-type separable potentials" [J. Phys. A. **34** (2001), no. 50, 11273–11286; MR1874141 (2003a:81215)]. **Amrein, W. O.** (*with* Măntoiu, Marius; Purice, Radu) Propagation properties for Schrödinger operators affiliated with certain C^*-algebras. (English summary) **2005a:81254**
Arnbak, H. C. *see* **Christiansen, Peter L. et al., 2005g:81337**
Arsen′ev, A. A. A mathematical model of resonances and tunneling in a system with a bound state. (Russian. Russian summary) **2005d:81362**
Barriuso, Alberto G. *see* **Sánchez-Soto, Luis L. et al., 2005k:81352**
Baute, A. D. (*with* Egusquiza, I. L.; Muga, J. G.) Effect of negative and classically-forbidden momenta in one-dimensional quantum scattering. (English summary)
Ben Ari, Tamar (*with* Horwitz, L. P.) Stark effect in Lax-Phillips scattering theory. (English summary) **2005f:81271**
Benedetto, Dario (*with* Esposito, Raffaele; Pulvirenti, Mario) Asymptotic analysis of quantum scattering under mesoscopic scaling. (English summary) **2005m:81330**
Boudjedaa, T. *see* **Khounfais, K. et al.**
Brau, Fabian (*with* Calogero, Francesco) Upper and lower limits on the number of bound states in a central potential. (English summary) **2005c:81237**
— Sufficient conditions for the existence of bound states in a central potential. (English summary) **2005d:81363**
— (*with* Lassaut, Monique) Critical strength of attractive central potentials. (English summary) **2005f:81272**
— Upper limit on the critical strength of central potentials in relativistic quantum mechanics. (English summary) **2005k:81350**
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Cariñena, José F. *see* **Sánchez-Soto, Luis L. et al., 2005k:81352**
Chadan, Khosrow (*with* Khuri, N. N.; Martin, André; Wu, Tai Tsun) Bound states in one and two spatial dimensions. (English summary) **2005f:81273**
— (*with* Kobayashi, Reido) The absence of positive energy bound states for a class of nonlocal potentials. (English summary) **2005k:81351**
Chen, Chang-Yuan (*with* Sun, Dong-Sheng; Lu, Fa-Lin) Scattering states of the Klein-Gordon equation with Coulomb-like scalar plus vector potentials in arbitrary dimension. (English summary) **2005d:81364**
Chetouani, L. *see* **Khounfais, K. et al.**
Christiansen, Peter L. (*with* Arnbak, H. C.; Zolotaryuk, A. V.; Ermakov, V. N.; Gaĭdideĭ, Yu. B.) On the existence of resonances in the transmission probability for interactions arising from derivatives of Dirac's delta function. (English summary) **2005g:81337**
Civitarese, O. (*with* Gadella, M.) Physical and mathematical aspects of Gamow states. (English summary) **2005g:81338**
Corona-Corona, Gulmaro A Wronskian of Jost solutions. (English summary) **2005f:81274**
Coutinho, Francisco A. B. (*with* Nogami, Yukihisa; Tomio, Lauro; Toyama, F. M.) The Fermi pseudo-potential in one dimension. (English summary) **2005f:81275**
Damanik, David (*with* Hundertmark, Dirk; Simon, Barry) Bound states and the Szegő condition for Jacobi matrices and Schrödinger operators. (English summary) **2005i:81180**
Dell'Antonio, Gianfausto (*with* Panati, G.) The flux-across-surfaces theorem and zero-energy resonances. (English summary) **2005h:81413**
Dombey, Norman *see* **Kennedy, Piers et al., 2005e:81252**
Egusquiza, I. L. *see* **Muga, J. G. et al., 2005a:81256** *and* **Baute, A. D. et al.**
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Gadella, M. *see* **Civitarese, O., 2005g:81338**
Gaĭdideĭ, Yu. B. *see* **Christiansen, Peter L. et al., 2005g:81337**
Ginibre, J. (*with* Velo, G.) Long range scattering and modified wave operators for the wave-Schrödinger system. II. (English summary) **2005f:81276**
Giraud, B. G. (*with* Weiguny, A.) Continuum singularities of a mean-field theory of collisions. (English summary) **2005b:81220**
Goldberg, Michael Joseph (*with* Schlag, Wilhelm) Dispersive estimates for Schrödinger operators in dimensions one and three. (English summary) **2005g:81339**
Hall, Richard L. *see* **Kennedy, Piers et al., 2005e:81252**
Herbst, Ira (*with* Skibsted, Erik) Quantum scattering for potentials independent of $|x|$: asymptotic completeness for high and low energies. (English summary) **2005m:81331**
Hernández, E. S. (*with* Jáuregui, A.; Mondragón, A.) Degeneracy of resonances, Jordan blocks, and Gamow-Jordan eigenfunctions. (English summary) **2005b:81221**
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Jáuregui, A. *see* **Hernández, E. S. et al., 2005b:81221**
Jolicard, Georges (*with* Killingbeck, John P.) The Bloch wave operator: generalizations and applications. II. The time-dependent case. (English summary) **2005b:81222**
Kennedy, Piers (*with* Dombey, Norman; Hall, Richard L.) Phase shifts and resonances in the Dirac equation. (English summary) **2005e:81252**
Khounfais, K. (*with* Boudjedaa, T.; Chetouani, L.) Scattering matrix for Feshbach-Villars equation for spin 0 and 1/2: Woods-Saxon potential. (English summary)
Khuri, N. N. *see* **Chadan, Khosrow et al., 2005f:81273**
Killingbeck, John P. *see* **Jolicard, Georges, 2005b:81222**
Killip, Rowan (*with* Kiselev, Alexander; Last, Yoram) Dynamical upper bounds on wavepacket spreading. (English summary) **2005a:81255**
Kiselev, Alexander *see* **Killip, Rowan et al., 2005a:81255**
Kobayashi, Reido *see* **Chadan, Khosrow, 2005k:81351**
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Martin, André *see* **Chadan, Khosrow et al., 2005f:81273**
Melgaard, Michael New approach to quantum scattering near the lowest Landau threshold for a Schrödinger operator with a constant magnetic field. (English summary) **2005c:81238**
Mineev, V. S. Physics of selfadjoint extensions: the one-dimensional scattering problem for Coulomb potential. (Russian. Russian summary) **2005h:81414**
Moiseyev, Nimrod (*with* Narevich, Romanas) The resonance phenomena associated with the time asymmetry in non-Hermitian quantum mechanics. (English summary) **2005d:81365**
— *see also* **Zavin, Raya, 2005d:81367**
Mondragón, A. *see* **Hernández, E. S. et al., 2005b:81221**
Monzón, Juan J. *see* **Sánchez-Soto, Luis L. et al., 2005k:81352**
Muga, J. G. (*with* Palao, J. P.; Navarro, B.; Egusquiza, I. L.) Complex absorbing potentials. (English summary) **2005a:81256**
— *see also* **Baute, A. D. et al.**
Nagao, Takeyuki On the flux-across-surfaces theorem for short-range potentials. (English summary) **2005e:81253**
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Navarro, B. *see* **Muga, J. G. et al., 2005a:81256**
Nogami, Yukihisa *see* **Coutinho, Francisco A. B. et al., 2005f:81275**
Palao, J. P. *see* **Muga, J. G. et al., 2005a:81256**
Panati, G. *see* **Dell'Antonio, Gianfausto, 2005h:81413**
Pulvirenti, Mario *see* **Benedetto, Dario et al., 2005m:81330**
Purice, Radu *see* **Amrein, W. O. et al., 2005a:81254**
Recami, Erasmo Superluminal tunnelling through successive barriers: does QM predict infinite group-velocities? (English summary)
Rodnianski, Igor (*with* Schlag, Wilhelm; Soffer, Avraham) Dispersive analysis of charge transfer models. (English summary) **2005i:81181**
Sáenz, A. W. Quantum-mechanical scattering in exterior domains with impenetrable periodic boundaries and short-range potentials. (English summary) **2005h:81415**
— Erratum: "Quantum-mechanical scattering in exterior domains with impenetrable periodic boundaries and short-range potentials" [J. Math. Phys. **45** (2004), no. 4, 1426–1446; MR2043836 (2005h:81415)].
Sánchez-Soto, Luis L. (*with* Cariñena, José F.; Barriuso, Alberto G.; Monzón, Juan J.) Vector-like representation of one-dimensional scattering. (English summary) **2005k:81352**
Schlag, Wilhelm *see* **Goldberg, Michael Joseph, 2005g:81339** *and* **Rodnianski, Igor et al., 2005i:81181**
Simon, Barry *see* **Damanik, David et al., 2005i:81180**
Skibsted, Erik *see* **Herbst, Ira, 2005m:81331**
Soffer, Avraham *see* **Rodnianski, Igor et al., 2005i:81181**
Stepin, S. A. Scattering and spectral singularities for some dissipative operators of mathematical physics. (English summary) **2005i:81182**
Sun, Dong-Sheng *see* **Chen, Chang-Yuan et al., 2005d:81364**
Szmytkowski, Radosław Derivation of Schwinger variational principles. (English summary) **2005h:81416**
— Eigenchannel method in quantum potential scattering. (English summary) **2005d:81366**
Takahashi, Kin'ya (*with* Ikeda, Kensuke S.) Complex-classical mechanism of the tunnelling process in strongly coupled 1.5-dimensional barrier systems. (English summary) **2005h:81417**
Teta, Alessandro *see* **Adami, Riccardo et al., 2005h:81412**
Tomio, Lauro *see* **Coutinho, Francisco A. B. et al., 2005f:81275**
Toyama, F. M. *see* **Coutinho, Francisco A. B. et al., 2005f:81275**
Velo, G. *see* **Ginibre, J., 2005f:81276**
Weder, Ricardo Inverse scattering at a fixed quasi-energy for potentials periodic in time. (English summary) **2005f:81277**
Weiguny, A. *see* **Giraud, B. G., 2005b:81220**
Wu, Tai Tsun *see* **Chadan, Khosrow et al., 2005f:81273**
Zasorin, Yu. V. The multipole pseudopotential method for some problems in quantum scattering theory. (Russian. Russian summary) **2005g:81340**
Zavin, Raya (*with* Moiseyev, Nimrod) One-dimensional symmetric rectangular well: from bound to resonance via self-orthogonal virtual state. (English summary) **2005d:81367**
Zolotaryuk, A. V. *see* **Christiansen, Peter L. et al., 2005g:81337**

Items with secondary classifications in 81U05

Al'beverio, S. (*with* Koshmanenko, Volodymyr; Kuzhel, Sergei) On a variant of abstract scattering theory in terms of quadratic forms. (English summary) **2005i:47016**
— (*with* Gesztesy, Fritz; Høegh-Krohn, R.; Holden, Helge) ★ Solvable models in quantum mechanics. **2005g:81001**
Arickx, F. *see* **Broeckhove, J. et al., 2005d:81378**
Bony, Jean-François (*with* Carles, Rémi; Häfner, Dietrich; Michel, Laurent) Scattering pour l'équation de Schrödinger en présence d'un potentiel répulsif. (English and French summaries) [Scattering for the Schrödinger equation with a repulsive potential] **2005a:35217**
— (*with* Carles, Rémi; Häfner, Dietrich; Michel, Laurent) Scattering theory for the Schrödinger equation with repulsive potential. (English and French summaries)
Broeckhove, J. (*with* Arickx, F.; Vanroose, W.; Vasilevskiĭ, V. S.) The modified J-matrix method for short range potentials. (English summary) **2005d:81378**
Brüning, Jochen (*with* Geĭler, V. A.) Scattering on compact manifolds with infinitely thin horns. (English summary) **2005b:58044**
Carles, Rémi *see* **Bony, Jean-François et al., 2005a:35217**
Chébli, Houcine (*with* Mahmoud, N. H.) Spectral functions of singular differential operators with matricial coefficients. (English summary) **2005h:81119**
(Exner, Pavel) *see* **Al'beverio, S. et al., 2005g:81001**
Feldman, Edgar (*with* Hillery, Mark) Scattering theory and discrete-time quantum walks. (English summary) **2005d:82042**
Fournais, Søren (*with* Skibsted, Erik) Zero energy asymptotics of the resolvent for a class of slowly decaying potentials. (English summary) **2005h:35048**
Geĭler, V. A. *see* **Brüning, Jochen, 2005b:58044**
Georgescu, Vladimir (*with* Gérard, Christian; Møller, Jacob Schach) Commutators, C_0-semigroups and resolvent estimates. (English summary) **2005h:47044**
Gérard, Christian *see* **Georgescu, Vladimir et al., 2005h:47044**
Gesztesy, Fritz *see* **Al'beverio, S. et al., 2005g:81001**
Giere, Eckhard Asymptotic completeness for functions of the Laplacian perturbed by potentials and obstacles. (English summary) **2005b:35211**
Golovanov, A. A. *see* **Golovanova, N. F., 2005a:81261**
Golovanova, N. F. (*with* Golovanov, A. A.) Mathematical eikonal method for solving Lippmann-Schwinger-type equations with complex potentials. (English summary) **2005a:81261**
Häfner, Dietrich *see* **Bony, Jean-François et al., 2005a:35217**
Hillery, Mark *see* **Feldman, Edgar, 2005d:82042**
Høegh-Krohn, R. *see* **Al'beverio, S. et al., 2005g:81001**
Holden, Helge *see* **Al'beverio, S. et al., 2005g:81001**
Jakšić, Vojkan (*with* Last, Yoram) Scattering from subspace potentials for Schrödinger operators on graphs. (English summary) **2005g:82062**
Keck, F. (*with* Korsch, H. J.; Mossmann, S.) Unfolding a diabolic point: a generalized crossing scenario. (English summary) **2005e:81077**
Korsch, H. J. *see* **Keck, F. et al., 2005e:81077**
Koshmanenko, Volodymyr *see* **Al'beverio, S. et al., 2005i:47016**
Kuzhel, Sergei *see* **Al'beverio, S. et al., 2005i:47016**
Last, Yoram *see* **Jakšić, Vojkan, 2005g:82062**
López-Mobilia, Rafael (*with* Nash, Patrick L.) Discrete approximation of the radial contribution to the Schrödinger time evolution operator in three-dimensional Euclidean space. (English summary) **2005k:65280**
Mahmoud, N. H. *see* **Chébli, Houcine, 2005h:81119**
Melgaard, Michael Quantum scattering near the lowest Landau threshold for a Schrödinger operator with a constant magnetic field. (English summary) **2005b:35213**
Michel, Laurent *see* **Bony, Jean-François et al., 2005a:35217**
Møller, Jacob Schach *see* **Georgescu, Vladimir et al., 2005h:47044**
Mossmann, S. *see* **Keck, F. et al., 2005e:81077**
Nash, Patrick L. *see* **López-Mobilia, Rafael, 2005k:65280**
Ramm, Alexander G. Inequalities for the transformation operators and applications. (English summary) **2005b:34178**
Richard, Serge Minimal escape velocities for unitary evolution groups. (English summary) **2005i:47069**
Robert, Didier Remarks on time-dependent Schrödinger equations, bound states, and coherent states. (English summary) (*see* **2005c:81007**)
Shimomura, Akihiro Scattering theory for the coupled Klein-Gordon-Schrödinger equations in two space dimensions. (English summary) **2005b:35264**
Skibsted, Erik *see* **Fournais, Søren, 2005h:35048**
Soffer, Avraham (*with* Weinstein, Michael I.) Selection of the ground state for nonlinear Schrödinger equations. (English summary) **2005g:81095**
Stepin, S. A. The resonance spectrum and trace formula in the problem of potential scattering. (Russian. Russian summary) **2005i:81185**
Strauss, Y. Resonances in the rigged Hilbert space and Lax-Phillips scattering theory. (English summary) **2005e:47022**
Vanroose, W. *see* **Broeckhove, J. et al., 2005d:81378**
Vasilevskiĭ, V. S. *see* **Broeckhove, J. et al., 2005d:81378**
Weinstein, Michael I. *see* **Soffer, Avraham, 2005g:81095**

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Ammari, Zied Scattering theory for a class of fermionic Pauli-Fierz models. (English summary) **2005g:81341**
Barford, Thomas (*with* Birse, Michael C.) Effective theories of scattering with an attractive inverse-square potential and the three-body problem. (English summary) **2005j:81199**

Birse, Michael C. *see* **Barford, Thomas**, **2005j:81199**
Davydychev, A. I. (*with* Delbourgo, Robert) Explicitly symmetric treatment of three-body phase space. (English summary) **2005f:81278**
Delbourgo, Robert *see* **Davydychev, A. I.**, **2005f:81278**
Dürr, Detlef (*with* Teufel, S.) On the exit statistics theorem of many-particle quantum scattering. (English summary) **2005f:81279**
Isozaki, Hiroshi Asymptotic properties of solutions to 3-particle Schrödinger equations. (English summary) **2005f:81280**
Martin, André Stability of three- and four-body Coulomb systems. (English summary) (*see* **2005c:81007**)
Martinez, André (*with* Nakamura, Shu; Sordoni, Vania) An application of phase space tunneling to multistate scattering theory. (English summary)
Nakamura, Shu *see* **Martinez, André et al.**
Sordoni, Vania *see* **Martinez, André et al.**
Teufel, S. *see* **Dürr, Detlef**, **2005f:81279**
Vasy, András Geometry and analysis in many-body scattering. (English summary) **2005a:81257**
— Exponential decay of eigenfunctions in many-body type scattering with second-order perturbations. (English summary) **2005b:81223**

Items with secondary classifications in 81U10

Avron, Joseph E. (*with* Elgart, Alexander; Graf, Gian Michele; Sadun, Lorenzo; Schnee, Kai) Adiabatic charge pumping in open quantum systems. (English summary) **2005f:82067**
Elgart, Alexander *see* **Avron, Joseph E. et al.**, **2005f:82067**
Georgescu, Vladimir (*with* Iftimovici, Andrei) C^*-algebras of quantum Hamiltonians. (English summary) **2005e:46133**
Graf, Gian Michele *see* **Avron, Joseph E. et al.**, **2005f:82067**
Hirose, Toru *see* **Iwai, Toshihiro**, **2005h:81443**
Iftimovici, Andrei *see* **Georgescu, Vladimir**, **2005e:46133**
Iwai, Toshihiro (*with* Hirose, Toru) Boundary conditions on wavefunctions for three bodies at singular configurations. (English summary) **2005h:81443**
Møller, Jacob Schach (*with* Skibsted, Erik) Spectral theory of time-periodic many-body systems. (English summary) **2005g:81093**
Sadun, Lorenzo *see* **Avron, Joseph E. et al.**, **2005f:82067**
Schnee, Kai *see* **Avron, Joseph E. et al.**, **2005f:82067**
Skibsted, Erik *see* **Møller, Jacob Schach**, **2005g:81093**
Wang, Xue Ping[1] Asymptotic behavior of resolvent for N-body Schrödinger operators near a threshold. (English summary) **2005g:81096**

81U15 Exactly and quasi-solvable systems

Ahmed, Zafar Handedness of complex PT-symmetric potential barriers. (English summary) **2005a:81258**
Arias, J. M. (*with* Gómez-Camacho, J.; Lemus, R.) An su(1, 1) dynamical algebra for the Pöschl-Teller potential. (English summary) **2005c:81239**
Azatassou, E. S. *see* **Hounkonnou, M. N. et al.**, **2005j:81201**
Bagchi, Bijan Kumar (*with* Banerjee, Abhijit; Quesne, C.; Tkachuk, Volodymyr M.) Deformed shape invariance and exactly solvable Hamiltonians with position-dependent effective mass. (English summary) **2005m:81332**
Banerjee, Abhijit *see* **Bagchi, Bijan Kumar et al.**, **2005m:81332**
Baran, S. A. (*with* Kerimov, G. A.) On solvable potentials related to SO(2, 2). II. Natanzon potentials. (English summary) **2005b:81224**
Basu-Mallick, B. (*with* Bhattacharyya, Tanaya; Kundu, Anjan; Mandal, Bhabani Prasad) Bound and scattering states of extended Calogero model with an additional $\mathcal{PT}$ invariant interaction. (English summary) **2005e:81254**
Bender, Carl M. $\mathcal{PT}$ symmetry in quantum field theory. (English summary) **2005m:81333**
Bhattacharyya, Tanaya *see* **Basu-Mallick, B. et al.**, **2005e:81254**
Brihaye, Yves (*with* Hartmann, Betti) Quasi-exactly solvable (QES) equations with multiple algebraisations. (English summary) **2005d:81368**
— (*with* Nininahazwe, Ancilla) On PT-symmetric extensions of the Calogero and Sutherland models. (English summary) **2005e:81255**
Burdík, Čestmír (*with* Navrátil, O.) A method for construction of the matrix solvable models. (English summary) **2005k:81353**
Chen, Chang-Yuan (*with* Lu, Fa-Lin; Sun, Dong-Sheng) Exact solutions of continuous states of Hartmann potential. (English summary) **2005d:81369**
Chenaghlou, A. *see* **Fakhri, H.**, **2005i:81183**
Dong, Shi-Hai (*with* Lara-Rosano, F.; Sun, Guo-Hua) The controllability of the pure states for the Morse potential with a dynamical group SU(1, 1). (English summary) **2005c:81240**
— *see also* **Yu, Jiang**, **2005c:81245**
Drigo Filho, Elso (*with* Ricotta, Regina Maria) Ladder operators for subtle hidden shape-invariant potentials. (English summary) **2005f:81281**
Fakhri, H. (*with* Chenaghlou, A.) Extended supersymmetry for the bound states of the generalized Hulthén potential hierarchy. (English summary) **2005i:81183**
— Shape invariance symmetries for quantum states of the superpotentials $A\tanh\omega y + B/A$ and $-A\cot\omega\theta + B\csc\omega\theta$. (English summary) **2005c:81241**
Fei, Shao Ming Exactly solvable many-body systems and pseudo-Hermitian point interactions. (English summary) **2005d:81370**
Finkel, F. (*with* Gómez-Ullate Oteiza, D.; González-López, Artemio; Rodríguez, Miguel Angel[2]; Zhdanov, R. Z.) A survey of quasi-exactly solvable systems and spin Calogero-Sutherland models. (English summary) **2005k:81354**
Geojo, K. G. *see* **Sree Ranjani, S. et al.**, **2005a:81260**
Gómez-Camacho, J. *see* **Arias, J. M. et al.**, **2005c:81239**
Gómez-Ullate Oteiza, D. (*with* Kamran, Niky; Milson, Robert) The Darboux transformation and algebraic deformations of shape-invariant potentials. (English summary) **2005f:81282**
— (*with* Kamran, Niky; Milson, Robert) Reply to: "Comment on: 'The Darboux transformation and algebraic deformations of shape-invariant potentials'" [J. Phys. A. **37** (2004), no. 34, 8401–8404; MR2092805 (2005f:81283a)] by A. Sinha and P. Roy. (English summary) **2005f:81283b**
— (*with* Kamran, Niky; Milson, Robert) Quasi-exact solvability and the direct approach to invariant subspaces. (English summary) **2005j:81200**
— *see also* **Sinha, Anjana**, **2005f:81283a** *and* **Finkel, F. et al.**, **2005k:81354**
Gönül, Bülent (*with* Koçak, M.) Systematic search of exactly solvable non-central potentials. (English summary) **2005m:81334**
González-López, Artemio *see* **Finkel, F. et al.**, **2005k:81354**
Handy, C. R. Positivity representations for non-Hermitian Hamiltonians. (English summary) **2005e:81256**
Hartmann, Betti *see* **Brihaye, Yves**, **2005d:81368**
Ho, Choon-Lin (*with* Roy, Pinaki) Quasi-exact solvability of Dirac-Pauli equation and generalized Dirac oscillators. (English summary) **2005c:81242**
Hounkonnou, M. N. (*with* Sodoga, K.; Azatassou, E. S.) Factorization of Sturm-Liouville operators: solvable potentials and underlying algebraic structure. (English summary) **2005j:81201**
Jakubský, Vít $\mathcal{PT}$-symmetric Calogero-type model. (English summary) **2005d:81371**
Ju, Guo-Xing (*with* Ren, Zhongzhou) The eigenspectrum and hidden supersymmetry of the Dirac oscillator in 2 + 1 dimensions. (English summary) **2005d:81372**
Kamran, Niky *see* **Gómez-Ullate Oteiza, D. et al.**, **2005f:81282**; **2005f:81283b**; **2005j:81200** *and* **Sinha, Anjana**, **2005f:81283a**
Kapoor, A. K. *see* **Sree Ranjani, S. et al.**, **2005a:81260**
Kerimov, G. A. *see* **Baran, S. A.**, **2005b:81224**
Khare, Avinash (*with* Sukhatme, Uday) Analytically solvable PT-invariant periodic potentials. (English summary) **2005c:81243**
Klishevich, Sergei (*with* Plyushchaĭ, M. S.) Dolan-Grady relations and noncommutative quasi-exactly solvable systems. (English summary) **2005d:81373**
Koç, Ramazan (*with* Tütüncüler, Hayriye; Olğar, Eser) Exactly and quasi-exactly solvable two-mode bosonic Hamiltonians. (English summary) **2005g:81342**
Koçak, M. *see* **Gönül, Bülent**, **2005m:81334**
Kostrykin, Vadim (*with* Schrader, Robert) A random necklace model. (English summary) **2005b:81225**
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Lara-Rosano, F. *see* **Dong, Shi-Hai et al.**, **2005c:81240**
Lemus, R. *see* **Arias, J. M. et al.**, **2005c:81239**
Lévai, Géza Exact analytic study of the $\mathcal{PT}$-symmetry-breaking mechanism. (English summary) **2005d:81374**
— *see also* **Sinha, Anjana et al.**, **2005c:81244**
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Mandal, Bhabani Prasad *see* **Basu-Mallick, B. et al.**, **2005e:81254**
Mardoyan, L. G. (*with* Pogosyan, George S.; Sisakyan, A. N.) Two exactly-solvable problems in one-dimensional quantum mechanics on circle. (English summary) **2005k:81355**
Milson, Robert *see* **Gómez-Ullate Oteiza, D. et al.**, **2005f:81282**; **2005f:81283b**; **2005j:81200** *and* **Sinha, Anjana**, **2005f:81283a**
Mostafazadeh, Ali Pseudo-Hermitian description of PT-symmetric systems defined on a complex contour. (English summary) **2005m:81335**
Navrátil, O. *see* **Burdík, Čestmír**, **2005k:81353**
Negro, Javier (*with* Nieto, Luis M.; Rosas-Ortiz, J. Oscar) Regularized Scarf potentials: energy band structure and supersymmetry. (English summary) **2005k:81356**
Nieto, Luis M. *see* **Negro, Javier et al.**, **2005k:81356**
Nininahazwe, Ancilla *see* **Brihaye, Yves**, **2005e:81255**
Odake, Satoru (*with* Sasaki, Ryu) Shape invariant potentials in "discrete quantum mechanics". (English summary) **2005m:81336**
Olğar, Eser *see* **Koç, Ramazan et al.**, **2005g:81342**
Panigrahi, Prasanta K. *see* **Sree Ranjani, S. et al.**, **2005a:81260**
Plyushchaĭ, M. S. *see* **Klishevich, Sergei**, **2005d:81373**
Pogosyan, George S. *see* **Mardoyan, L. G. et al.**, **2005k:81355**
Quesne, C. (*with* Tkachuk, Volodymyr M.) Deformed algebras, position-dependent effective masses and curved spaces: an exactly solvable Coulomb problem. (English summary) **2005e:81257**
— *see also* **Bagchi, Bijan Kumar et al.**, **2005m:81332**
Ren, Zhongzhou *see* **Ju, Guo-Xing**, **2005d:81372**
Ricotta, Regina Maria *see* **Drigo Filho, Elso**, **2005f:81281**
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Rosas-Ortiz, J. Oscar *see* **Negro, Javier et al.**, **2005k:81356**
Roy, Barnana (*with* Roychoudhury, R.) Second-order intertwining operator and isospectral partner of complex PT invariant potential. (English summary) **2005d:81375**
Roy, Pinaki *see* **Ho, Choon-Lin**, **2005c:81242**; **Sinha, Anjana et al.**, **2005c:81244**; **2005d:81376**; **2005f:81283a**; **2005f:81284**; **Gómez-Ullate Oteiza, D. et al.**, **2005f:81283b** *and* **Samsonov, Boris F.**, **2005j:81202**
Roychoudhury, R. *see* **Roy, Barnana**, **2005d:81375**
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Sasaki, Ryu *see* **Odake, Satoru**, **2005m:81336**
Schrader, Robert *see* **Kostrykin, Vadim**, **2005b:81225**
Schulze-Halberg, Axel Hidden symmetry in quasi-exactly solvable fractional power potentials. (English summary) **2005a:81259**
Sinha, Anjana (*with* Roy, Pinaki) Generation of exactly solvable non-Hermitian potentials with real energies. (English summary) **2005d:81376**
— (*with* Roy, Pinaki) New exactly solvable isospectral partners for $\mathcal{PT}$ symmetric potentials. (English summary) **2005f:81284**
— (*with* Roy, Pinaki) Comment on: "The Darboux transformation and algebraic deformations of shape-invariant potentials" [J. Phys. A **37** (2004), no. 5, 1789–1804; MR2044192 (2005f:81282)] by D. Gómez-Ullate, N. Kamran and R. Milson. (English summary) **2005f:81283a**
— (*with* Lévai, Géza; Roy, Pinaki) $\mathcal{PT}$ symmetry of a conditionally exactly solvable potential. (English summary) **2005c:81244**
— *see also* **Gómez-Ullate Oteiza, D. et al.**, **2005f:81283b**
Sisakyan, A. N. *see* **Mardoyan, L. G. et al.**, **2005k:81355**

Sodoga, K. *see* **Hounkonnou, M. N. et al., 2005j:81201**
Sree Ranjani, S. (*with* Geojo, K. G.; Kapoor, A. K.; Panigrahi, Prasanta K.) Bound state wave functions through the quantum Hamilton-Jacobi formalism. (English summary) **2005a:81260**
Sukhatme, Uday *see* **Khare, Avinash, 2005c:81243**
Sun, Dong-Sheng *see* **Chen, Chang-Yuan et al., 2005d:81369**
Sun, Guo-Hua *see* **Dong, Shi-Hai et al., 2005c:81240**
Tanaka, Toshiaki[1] $\mathfrak{sl}(M+1)$ construction of quasi-solvable quantum M-body systems. (English summary) **2005h:81418**
Tkachuk, Volodymyr M. *see* **Quesne, C., 2005e:81257** *and* **Bagchi, Bijan Kumar et al., 2005m:81332**
Tütüncüler, Hayriye *see* **Koç, Ramazan et al., 2005g:81342**
Weigert, Stefan The physical interpretation of PT-invariant potentials. (English summary) **2005h:81419**
Yu, Jiang (*with* Dong, Shi-Hai) Exactly solvable potentials for the Schrödinger equation with spatially dependent mass. (English summary) **2005c:81245**
Zhdanov, R. Z. *see* **Finkel, F. et al., 2005k:81354**

Items with secondary classifications in 81U15

Al'beverio, S. (*with* Gesztesy, Fritz; Høegh-Krohn, R.; Holden, Helge) ★ Solvable models in quantum mechanics. **2005g:81001**
Alhaidari, A. D. The relativistic Dirac-Morse Green's function. (English summary) **2005h:81104**
Alvarez, Gabriel (*with* Finkel, F.; González-López, Artemio; Rodríguez, Miguel Angel[2]) Quasi-exact solvability in nonlinear optics. (English summary) **2005c:81255**
Basu-Mallick, B. (*with* Bhattacharyya, Tanaya; Mandal, Bhabani Prasad) Phase shift analysis of PT-symmetric non-Hermitian extension of A_{N-1} Calogero model without confining interaction. (English summary) **2005m:81135**
Bender, Carl M. Complex extension of quantum mechanics. (English summary) **2005b:81029**
Bhaduri, Rajat K. (*with* Sakhr, Jamal; Sprung, D. W. L.; Dutt, Ranabir; Suzuki, Akira) Shape invariant potentials in SUSY quantum mechanics and periodic orbit theory. (English summary) **2005m:81116**
Bhattacharyya, Tanaya *see* **Basu-Mallick, B. et al., 2005m:81135**
Caliceti, Emanuela (*with* Graffi, Sandro) Canonical expansion of $\mathscr{PT}$-symmetric operators and perturbation theory. (English summary) **2005f:81066**
— (*with* Graffi, Sandro; Sjöstrand, Johannes) Spectra of PT-symmetric operators and perturbation theory. (English summary) **2005k:81076**
Cariñena, José F. (*with* Rañada, Manuel F.; Santander, Mariano) One-dimensional model of a quantum nonlinear harmonic oscillator. (English summary) **2005k:81056**
Cerveró, José M. (*with* Rodríguez, Alberto) The band spectrum of periodic potentials with $\mathscr{PT}$-symmetry. (English summary) **2005g:81077**
Chenaghlou, A. *see* **Fakhri, H., 2005h:33030**
Debergh, N. (*with* Van den Bossche, B.) Differential realizations of polynomial algebras in finite-dimensional spaces of monomials. (English summary) **2005g:81130**
Diao, Yong-Feng *see* **Yi, Liang Zhong et al., 2005h:81116**
Dorey, Patrick (*with* Dunning, Clare; Tateo, Roberto) A reality proof in $\mathscr{PT}$-symmetric quantum mechanics. (English summary)
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Egrifes, Harun *see* **Simsek, Mehmet, 2005d:81125**
(Exner, Pavel) *see* **Al'beverio, S. et al., 2005g:81001**
Fakhri, H. (*with* Chenaghlou, A.) Ladder operators for the associated Laguerre functions. (English summary) **2005h:33030**
Fei, Shao Ming Integrability and $\mathscr{PT}$-symmetry of N-body systems with spin-coupling δ-interactions. (English summary)
Finkel, F. *see* **Alvarez, Gabriel et al., 2005c:81255**
Gaillard, Pierre[2] A new family of deformations of Darboux-Pöschl-Teller potentials. (English summary) **2005h:81109**
Gesztesy, Fritz *see* **Al'beverio, S. et al., 2005g:81001**
González-López, Artemio *see* **Alvarez, Gabriel et al., 2005c:81255**
Graffi, Sandro *see* **Caliceti, Emanuela et al., 2005f:81066** *and* **2005k:81076**
Hiranwal, Roshan (*with* Mishra, S. C.; Mishra, Veena) Classical and quantum integrability for a class of potentials in two dimensions. (English summary) **2005c:81085**
Høegh-Krohn, R. *see* **Al'beverio, S. et al., 2005g:81001**
Holden, Helge *see* **Al'beverio, S. et al., 2005g:81001**
Jafarizadeh, M. A. *see* **Panahi-Talemi, H., 2005m:81084**
Jia, Chun-Sheng *see* **Yi, Liang Zhong et al., 2005h:81116**
Jones, Hugh F. On pseudo-Hermitian Hamiltonians and their Hermitian counterparts. (English summary) **2005m:81094**
Khare, Avinash (*with* Sukhatme, Uday) Periodic potentials and supersymmetry. (English summary) **2005k:81093**
Kuru, Şengül (*with* Verçín, Abdullah) Three-dimensional integrable and superintegrable isospectral potentials. (English summary)
Liu, Jian-Yi *see* **Yi, Liang Zhong et al., 2005h:81116**
Maidanyuk, S. P. SUSY-hierarchy of one-dimensional reflectionless potentials. (English summary) **2005m:81119**
Mandal, Bhabani Prasad *see* **Basu-Mallick, B. et al., 2005m:81135**
Meljanac, Stjepan (*with* Samsarov, Andjelo) Universal properties of conformal quantum many-body systems. (English summary) **2005k:81073**
— (*with* Samsarov, Andjelo) Erratum to: "Universal properties of conformal quantum many-body systems" [Phys. Lett. B **613** (2005), no. 3-4, 221–225; MR2132213 (2005k:81073)].
Mineev, V. S. Physics of selfadjoint extensions: the one-dimensional scattering problem for Coulomb potential. (Russian. Russian summary) **2005h:81414**
Mishra, S. C. *see* **Hiranwal, Roshan et al., 2005c:81085**
Mishra, Veena *see* **Hiranwal, Roshan et al., 2005c:81085**
Mostafazadeh, Ali Pseudo-Hermitian supersymmetry: a brief review. (English summary)
Nanayakkara, Asiri Classical trajectories of 1D complex non-Hermitian Hamiltonian systems. (English summary) **2005a:70021**
Panahi-Talemi, H. (*with* Jafarizadeh, M. A.) Two and three dimensional Hamiltonians with generalized and ordinary shape invariance symmetry. (English summary) **2005m:81084**
Plyushchaĭ, M. S. Nonlinear supersymmetry: from classical to quantum mechanics. (English summary) **2005g:81117**
Popov, Dušan Gazeau-Klauder quasi-coherent states for the Morse oscillator. (English summary) **2005b:81086**
Rañada, Manuel F. *see* **Cariñena, José F. et al., 2005k:81056**
Rodríguez, Alberto *see* **Cerveró, José M., 2005g:81077**
Rodríguez, Miguel Angel[2] *see* **Alvarez, Gabriel et al., 2005c:81255**
Sakhr, Jamal *see* **Bhaduri, Rajat K. et al., 2005m:81116**
Samsarov, Andjelo *see* **Meljanac, Stjepan, 2005k:81073**
Santander, Mariano *see* **Cariñena, José F. et al., 2005k:81056**
Schulze-Halberg, Axel Quasi-exactly solvable potentials of the radial Dirac equation with two known levels. (English summary) **2005f:81054**
— N-multiplets of the radial Dirac equation. (English summary) **2005k:81066**
Simsek, Mehmet (*with* Egrifes, Harun) The Klein-Gordon equation of generalized Hulthén potential in complex quantum mechanics. (English summary) **2005d:81125**
Sjöstrand, Johannes *see* **Caliceti, Emanuela et al., 2005k:81076**
de Souza Dutra, A. Mapping deformed hyperbolic potentials into nondeformed ones. (English summary) **2005k:81067**
Sprung, D. W. L. *see* **Bhaduri, Rajat K. et al., 2005m:81116**
Sukhatme, Uday *see* **Khare, Avinash, 2005k:81093**
Sukumar, C. V. Green's functions, sum rules and matrix elements for SUSY partners. (English summary) **2005g:81121**
Suzuki, Akira *see* **Bhaduri, Rajat K. et al., 2005m:81116**
Tateo, Roberto *see* **Dorey, Patrick et al.**
Trunov, N. N. Classes of potentials for which quasi-classical quantization can be carried out exactly. (Russian. Russian summary) **2005b:81044**
Turbiner, A. V. Perturbations of integrable systems and Dyson-Mehta integrals. (English summary) **2005i:81044**
Van den Bossche, B. *see* **Debergh, N., 2005g:81130**
Verçín, Abdullah *see* **Kuru, Şengül**
Yi, Liang Zhong (*with* Diao, Yong-Feng; Liu, Jian-Yi; Jia, Chun-Sheng) Bound states of the Klein-Gordon equation with vector and scalar Rosen-Morse-type potentials. (English summary) **2005h:81116**
Znojil, Miloslav Re-establishing supersymmetry between harmonic oscillators in $D \neq 1$ dimensions. (English summary) **2005e:81073**
— Fragile $\mathscr{PT}$-symmetry in a solvable model. (English summary) **2005f:81056**
— $\mathscr{PT}$-symmetric regularizations in supersymmetric quantum mechanics. (English summary) **2005g:81123**
— *see also* **Pseudo-Hermitian Hamiltonians in quantum physics**

Items listed otherwise than by author

Prague ★ Pseudo-Hermitian Hamiltonians in quantum physics.
Pseudo-Hermitian Hamiltonians in quantum physics ★ Pseudo-Hermitian Hamiltonians in quantum physics.

81U20 S-matrix theory, etc.

Arickx, F. *see* **Broeckhove, J. et al., 2005d:81378**
Arsen'ev, A. A. On a relation between a pole of the scattering matrix and the transmission and reflection coefficients in the case of scattering in a quantum waveguide. (Russian. Russian summary) **2005i:81184**
Avdonina, N. B. *see* **Belov, Sergei Mikhailovich et al., 2005d:81377**
Belov, Sergei Mikhailovich (*with* Avdonina, N. B.; Felfli, Z.; Marletta, Marco; Msezane, A. Z.; Naboko, Sergei N.) Semiclassical approach to Regge poles trajectories calculations for nonsingular potentials: Thomas-Fermi type. (English summary) **2005d:81377**
Bentosela, François Scattering and spectral properties of two surface models. (English summary) **2005e:81258**
Broeckhove, J. (*with* Arickx, F.; Vanroose, W.; Vasilevskiĭ, V. S.) The modified J-matrix method for short range potentials. (English summary) **2005d:81378**
(Dokshitzer, Yuri) *see* **Gribov, V. N., 2005m:81337**
Felfli, Z. *see* **Belov, Sergei Mikhailovich et al., 2005d:81377**
(Frankfurt, Leonid) *see* **Gribov, V. N., 2005m:81337**
Giraud, B. G. (*with* Katō, Kiyoshi; Ohnishi, A.) Complex scaled spectrum completeness for coupled channels. (English summary) **2005g:81343**
Golovanov, A. A. *see* **Golovanova, N. F., 2005a:81261**
Golovanova, N. F. (*with* Golovanov, A. A.) Mathematical eikonal method for solving Lippmann-Schwinger-type equations with complex potentials. (English summary) **2005a:81261**
Gribov, V. N. ★ The theory of complex angular momenta. **2005m:81337**
Katō, Kiyoshi *see* **Giraud, B. G. et al., 2005g:81343**
Lewenkopf, C. H. (*with* Vallejos, Raúl O.) Open orbits and the semiclassical dwell time. (English summary) **2005j:81203**
Marletta, Marco *see* **Belov, Sergei Mikhailovich et al., 2005d:81377**
Msezane, A. Z. *see* **Belov, Sergei Mikhailovich et al., 2005d:81377**
Naboko, Sergei N. *see* **Belov, Sergei Mikhailovich et al., 2005d:81377**
Ohnishi, A. *see* **Giraud, B. G. et al., 2005g:81343**
Sokolovski, Dmitri *see* **Thylwe, Karl-Erik, 2005m:81338**
Stapp, Henry P. Correspondence and analyticity. (English summary) **2005f:81285**
Stepin, S. A. The resonance spectrum and trace formula in the problem of potential scattering. (Russian. Russian summary) **2005i:81185**
Thylwe, Karl-Erik Scattering S-matrix derived from invariants of the Ermakov-Lewis type. (English summary) **2005g:81344**
— (*with* Sokolovski, Dmitri) An amplitude-phase approach to calculating Regge-pole positions and residues. (English summary) **2005m:81338**
Vallejos, Raúl O. *see* **Lewenkopf, C. H., 2005j:81203**
Vanroose, W. *see* **Broeckhove, J. et al., 2005d:81378**
Vasilevskiĭ, V. S. *see* **Broeckhove, J. et al., 2005d:81378**

Items with secondary classifications in 81U20

Aharony, Ofer (*with* Giveon, Amit; Kutasov, David) LSZ in LST. (English summary) **2005h:81255**

Amaya-Tapia, A. (*with* Gasaneo, G.; Ovchinnikov, S. Yu.; Macek, J. H.; Larsen, S. Y.) Integral representation of one-dimensional three particle scattering for δ function interactions. (English summary) **2005d:81115**

Antoniou, Ioannis E. *see* **Pavlov, Boris S., 2005m:47029**

Atkinson, David Singular scattering matrices. (English summary) **2005k:45023**

Castro-Alvaredo, Olalla (*with* Fring, Andreas) On vacuum energies and renormalizability in integrable quantum field theories. (English summary) **2005a:81195**

Fring, Andreas *see* **Castro-Alvaredo, Olalla, 2005a:81195**

Gasaneo, G. *see* **Amaya-Tapia, A. et al., 2005d:81115**

Giveon, Amit *see* **Aharony, Ofer et al., 2005h:81255**

Grinza, Paolo (*with* Ponsot, Bénédicte) Form factors in the massless coset models $su(2)_{k+1} \otimes su(2)_k / su(2)_{2k+1}$. I. (English summary) **2005m:81272**

Hernández, E. S. (*with* Jáuregui, A.; Mondragón, A.) Degeneracy of resonances, Jordan blocks, and Gamow-Jordan eigenfunctions. (English summary) **2005b:81221**

Jáuregui, A. *see* **Hernández, E. S. et al., 2005b:81221**

Kutasov, David *see* **Aharony, Ofer et al., 2005h:81255**

Larsen, S. Y. *see* **Amaya-Tapia, A. et al., 2005d:81115**

Macek, J. H. *see* **Amaya-Tapia, A. et al., 2005d:81115**

Mondragón, A. *see* **Hernández, E. S. et al., 2005b:81221**

Ovchinnikov, S. Yu. *see* **Amaya-Tapia, A. et al., 2005d:81115**

Pavlov, Boris S. (*with* Antoniou, Ioannis E.) Jump-start in the analytic perturbation procedure for the Friedrichs model. (English summary) **2005m:47029**

Ponsot, Bénédicte *see* **Grinza, Paolo, 2005m:81272**

Zaĭtsev, Sergeĭ Aleksandrovich Structure of the S-matrix and the inverse problem method in the J-matrix approach. (Russian. Russian summary) **2005k:81357**

81U30 Dispersion theory, dispersion relations

Alhaidari, A. D. Study of resonances in the complex charge plane. (English summary) **2005c:81246**

Avdonina, N. B. *see* **Naboko, Sergei N. et al., (2005m:00008)**

Felfli, Z. *see* **Naboko, Sergei N. et al., (2005m:00008)**

Mnatsakanova, M. N. *see* **Vernov, Yu. S., 2005f:81287**

Msezane, A. Z. *see* **Naboko, Sergei N. et al., (2005m:00008)**

Naboko, Sergei N. (*with* Felfli, Z.; Avdonina, N. B.; Msezane, A. Z.) Regge poles calculation for singular potentials: the Lennard-Jones potential. (English summary) (*see* **2005m:00008**)

Pankrashkin, Konstantin On semiclassical dispersion relations of Harper-like operators. (English summary) **2005f:81286**

Vernov, Yu. S. (*with* Mnatsakanova, M. N.) Dispersion relations for the elastic forward scattering amplitude in noncommutative quantum field theory. (Russian. Russian summary) **2005f:81287**

Items with secondary classifications in 81U30

(Dokshitzer, Yuri) *see* **Gribov, V. N., 2005m:81337**

(Frankfurt, Leonid) *see* **Gribov, V. N., 2005m:81337**

Gribov, V. N. ★ The theory of complex angular momenta. **2005m:81337**

81U40 Inverse scattering problems

Al′beverio, S. (*with* Nizhnik, Leonid; Tarasov, Victor) Inverse scattering problem for a Dirac system with nonstationary point interactions. (English summary) **2005e:81259**

Apagyi, Barnabas *see* **Jesgarz, Samuel et al., 2005d:81379**

Baye, Daniel (*with* Sparenberg, Jean-Marc) Inverse scattering with supersymmetric quantum mechanics. (English summary) **2005f:81288**

Feinberg, Joshua The response to a perturbation in the reflection amplitude. (English summary) **2005h:81420**

Jesgarz, Samuel (*with* Apagyi, Barnabas; Scheid, Werner) Coupled channel inverse scattering problem at fixed energy in Born approximation. (English summary) **2005d:81379**

Jung, Christof (*with* Orellana-Rivadeneyra, G.; Luna-Acosta, G. A.) Reconstruction of the chaotic set from classical cross section data. (English summary) **2005h:81421**

Korotyaev, E. L. Stability for inverse resonance problem. **2005i:81186**

Lo, T. S. (*with* Wong, S. S. M.; Young, Kenneth) Determination of a finite-range potential from discrete phase-shift data by inverse scattering. (English summary) **2005h:81422**

Luna-Acosta, G. A. *see* **Jung, Christof et al., 2005h:81421**

Nicoleau, François A constructive procedure to recover asymptotics of short-range or long-range potentials. (English summary) **2005f:81289**

Nizhnik, Leonid *see* **Al′beverio, S. et al., 2005e:81259**

Orellana-Rivadeneyra, G. *see* **Jung, Christof et al., 2005h:81421**

Palamodov, V. P. Abel's inverse problem and inverse scattering. (*see* **2005a:00019**)

Scheid, Werner *see* **Jesgarz, Samuel et al., 2005d:81379**

Sparenberg, Jean-Marc *see* **Baye, Daniel, 2005f:81288**

Tarasov, Victor *see* **Al′beverio, S. et al., 2005e:81259**

Vasy, András (*with* Wang, Xue Ping[1]) Inverse scattering with fixed energy for dilation-analytic potentials. (English summary) **2005e:81260**

Wang, Xue Ping[1] *see* **Vasy, András, 2005e:81260**

Wong, S. S. M. *see* **Lo, T. S. et al., 2005h:81422**

Young, Kenneth *see* **Lo, T. S. et al., 2005h:81422**

Zaĭtsev, Sergeĭ Aleksandrovich Structure of the S-matrix and the inverse problem method in the J-matrix approach. (Russian. Russian summary) **2005k:81357**

Items with secondary classifications in 81U40

Ablowitz, Mark J. (*with* Prinari, B.; Trubatch, A. D.) ★ Discrete and continuous nonlinear Schrödinger systems. **2005c:37117**

Aktosun, Tuncay Inverse scattering transform, KdV, and solitons. (English summary) **2005b:37165**

— Inverse scattering on the line with incomplete scattering data. (English summary) **2005g:34025**

Al′beverio, S. (*with* Koshmanenko, Volodymyr; Kuzhel, Sergei) On a variant of abstract scattering theory in terms of quadratic forms. (English summary) **2005i:47016**

Baseilhac, Pascal Deformed Dolan-Grady relations in quantum integrable models. (English summary) **2005m:81134**

Bortz, Michael (*with* Klümper, Andreas) Lattice path integral approach to the one-dimensional Kondo model. (English summary) **2005h:82013**

Chen, Xiang-Jun (*with* Lam, Wa Kun) Inverse scattering transform for the derivative nonlinear Schrödinger equation with nonvanishing boundary conditions. (English summary)

Christiansen, T. (*with* Joshi, M. S.) Scattering on stratified media: the microlocal properties of the scattering matrix and recovering asymptotics of perturbations. (English and French summaries) **2005b:35210**

Gerdzhikov, V. S. (*with* Grahovski, Georgi G.) On N-wave and NLS type systems: generating operators and the gauge group action: the so(5) case. (English summary) **2005b:37149**

Grahovski, Georgi G. *see* **Gerdzhikov, V. S., 2005b:37149**

Isozaki, Hiroshi Inverse spectral theory. (English summary)

— (*with* Nakazawa, Hideo; Uhlmann, Gunther) Inverse scattering problem in nuclear physics—optical model. (English summary) **2005c:81251**

Joshi, M. S. *see* **Christiansen, T., 2005b:35210**

Klümper, Andreas *see* **Bortz, Michael, 2005h:82013**

Koshmanenko, Volodymyr *see* **Al′beverio, S. et al., 2005i:47016**

Kulish, Petr Petrovich (*with* Tseĭtlin, A. M.) Superconformal field theory and SUSY $N = 1$ KdV hierarchy. I. Vertex operators and Yang-Baxter equation. (English summary) **2005k:81116**

Kuzhel, Sergei *see* **Al′beverio, S. et al., 2005i:47016**

Lam, Wa Kun *see* **Chen, Xiang-Jun**

Nakazawa, Hideo *see* **Isozaki, Hiroshi et al., 2005c:81251**

Päivärinta, Lassi Analytic methods for inverse scattering theory. **2005h:35366**

Prinari, B. *see* **Ablowitz, Mark J. et al., 2005c:37117**

Ramm, Alexander G. One-dimensional inverse scattering and spectral problems. (English summary) **2005i:35291**

Rose, James H. Single-sided focusing and the minimum principle of inverse scattering theory. (English summary) **2005c:35297**

Sá Barreto, Antônio Radiation fields and inverse scattering on asymptotically Euclidean manifolds. **2005m:58066**

Steudel, H. (*with* Zabolotskii, A. A.) Solitons of the reduced Maxwell-Bloch equations for circularly polarized light. (English summary) **2005c:81259**

Suzko, A. A. Intertwining technique for the matrix Schrödinger equation. (English summary) **2005k:81094**

Trubatch, A. D. *see* **Ablowitz, Mark J. et al., 2005c:37117**

Tseĭtlin, A. M. *see* **Kulish, Petr Petrovich, 2005k:81116**

Uhlmann, Gunther *see* **Isozaki, Hiroshi et al., 2005c:81251**

Vartanian, Arthur H. Long-time asymptotics of solutions to the Cauchy problem for the defocusing nonlinear Schrödinger equation with finite-density initial data. II. Dark solitons on continua. (English summary) **2005a:37140**

— Long-time asymptotics of solutions to the Cauchy problem for the defocusing nonlinear Schrödinger equation with finite-density initial data. I. Solitonless sector. (English summary) **2005a:37141**

Weder, Ricardo Time-dependent methods in inverse scattering theory. (English summary) **2005c:35226**

— Inverse scattering with time-periodic potentials. (English summary) **2005g:35226**

Zabolotskii, A. A. *see* **Steudel, H., 2005c:81259**

81U99 None of the above, but in this section

Antoniou, Ioannis E. (*with* Karpov, Evgueni; Prigogine, Ilya; Pron′ko, G. P.) Relativity and irreversibility. (English summary) (*see* **2005d:00011**)

Barsegyan, A. R. *see* **Gevorkyan, Ashot S. et al., (2005c:00015)**

Cavagnat, Dominique *see* **Rong, Zimei et al., (2005c:00015)**

Damborenea, J. A. *see* **Ruschhaupt, A. et al.**

Delgado, Fernando *see* **Ruschhaupt, A. et al., 2005i:81187**

Figari, Rodolfo (*with* Teta, Alessandro) A one-dimensional model for ionization induced by scattering with a heavy particle. (English summary) **2005m:81339**

Gevorkyan, Ashot S. (*with* Ghulyan, A. V.; Barsegyan, A. R.) Modeling of the potential energy surface of regrouping reaction in collinear three-atom collision system using nonlinear optimization. (English summary) (*see* **2005c:00015**)

Ghulyan, A. V. *see* **Gevorkyan, Ashot S. et al., (2005c:00015)**

Hegerfeldt, G. C. *see* **Ruschhaupt, A. et al.**

Ito, Hiroshi T. (*with* Tamura, Hideo) Aharonov-Bohm effect in scattering by a chain of point-like magnetic fields. (English summary) **2005b:81226**

Karpov, Evgueni *see* **Antoniou, Ioannis E. et al., (2005d:00011)**

Lespade, Laure *see* **Rong, Zimei et al., (2005c:00015)**

Mobed, N. *see* **Singh, Dinesh Dyal et al., 2005f:81290**

Muga, J. G. *see* **Ruschhaupt, A. et al., 2005i:81187**

Navarro, B. *see* **Ruschhaupt, A. et al.**

Nilsson, Börje Scattering in quantum tubes. (English summary) **2005d:81380**

Papini, G. *see* **Singh, Dinesh Dyal et al., 2005f:81290**

Prigogine, Ilya *see* **Antoniou, Ioannis E. et al., (2005d:00011)**

Pron′ko, G. P. *see* **Antoniou, Ioannis E. et al., (2005d:00011)**

Rong, Zimei (*with* Cavagnat, Dominique; Lespade, Laure) Calculation of displacement matrix elements for Morse oscillators. (English summary) (*see* **2005c:00015**)

Ruschhaupt, A. (*with* Damborenea, J. A.; Navarro, B.; Muga, J. G.; Hegerfeldt, G. C.) Exact and approximate complex potentials for modelling time observables. (English summary)

— (*with* Delgado, Fernando; Muga, J. G.) Physical realization of $\mathcal{PT}$-symmetric potential scattering in a planar slab waveguide. (English summary) **2005i:81187**

Singh, Dinesh Dyal (*with* Mobed, N.; Papini, G.) Helicity precession of spin-1/2 particles in weak inertial and gravitational fields. (English summary) **2005f:81290**
Tamura, Hideo *see* **Ito, Hiroshi T., 2005b:81226**
Teta, Alessandro *see* **Figari, Rodolfo, 2005m:81339**

Items with secondary classifications in 81U99

Athanasiadis, Christodoulos (*with* Giotopoulos, Stavros) Scattering theorems for dyadic chiral fields. (English summary) **2005h:78012**
Bellucci, Stefano (*with* Yeranyan, A. H.) Noncommutative quantum scattering in a central field. (English summary) **2005h:81392**
De Haan, Michel Single subdynamics approach: on the existence of poles. **2005j:82045**
Doplicher, Luisa Generalized Tomonaga-Schwinger equation from the Hadamard formula. (English summary) **2005h:81410**
Gérard, Christian Théorie de la diffusion pour le modèle de Nelson et problème infrarouge. (English and French summaries) [Scattering theory for the Nelson model and infrared problem] **2005j:81107**
Giotopoulos, Stavros *see* **Athanasiadis, Christodoulos, 2005h:78012**
Gohm, Rolf Kümmerer-Maassen-scattering theory and entanglement. (English summary) **2005d:81217**
Kholodenko, A. L. New string amplitudes from old Fermat (hyper)surfaces. (English summary) **2005f:11296**
Kozoriz, V. I. (*with* Musin, Yu. R.) On the problem of the scattering of a classical particle in a Coulomb field. (Russian. Russian summary) **2005a:81264**
Mavromatis, H. A. *see* **Srivastava, Hari M., 2005d:33009**
Melnyk, Fabrice Scattering on Reissner-Nordstrøm metric for massive charged spin 1/2 fields. (English summary) **2005f:83060**
Milward, Geoffrey C. (*with* Wilkin, Colin) The quantum probability equation. III. Perturbing in the energy. (English summary) **2005a:81060**
Moshinsky, Marcos Transient effects in Wigner distribution phase space of a scattering problem. (English summary) **2005d:34185**
Musin, Yu. R. *see* **Kozoriz, V. I., 2005a:81264**
Rebolledo, Rolando Limit problems for quantum dynamical semigroups—inspired by scattering theory. (English summary) **2005a:81116**
Severini, Simone (*with* Tanner, Gregor) Regular quantum graphs. (English summary) **2005e:81126**
Srivastava, Hari M. (*with* Mavromatis, H. A.) A new spherical Bessel function result related to quantum mechanical scattering theory. (English summary) **2005d:33009**
Tanner, Gregor *see* **Severini, Simone, 2005e:81126**
Vasy, András Exponential decay of eigenfunctions in many-body type scattering with second-order perturbations. (English summary) **2005b:81223**
Wilkin, Colin *see* **Milward, Geoffrey C., 2005a:81060**
Yeranyan, A. H. *see* **Bellucci, Stefano, 2005h:81392**

81Vxx Applications to specific physical systems

81V05 Strong interaction, including quantum chromodynamics

Abrashkin, A. (*with* Frishman, Y.; Sonnenschein, Jacob) The spectrum of states with one current acting on the adjoint vacuum of massless QCD_2. (English summary) **2005f:81291**
Akemann, G. (*with* Fyodorov, Yan V.; Vernizzi, G.) On matrix model partition functions for QCD with chemical potential. (English summary) **2005b:81227**
— (*with* Osborn, J. C.; Splittorff, K.; Verbaarschot, J. J. M.) Unquenched QCD Dirac operator spectra at nonzero baryon chemical potential. (English summary) **2005k:81358**
Aldazabal, Gerardo (*with* Ibáñez, Luis E.; Uranga, Angel M.) Solving the strong CP problem via Wess-Zumino terms. (English summary) **2005a:81262**
Andersson, Toke (*with* Damgaard, P. H.; Splittorff, K.) The replica method and Toda lattice equations for QCD_3. (English summary) **2005h:81423**
Andreev, Oleg (*with* Siegel, Warren) Quantized tension: stringy amplitudes with Regge poles and parton behavior. (English summary)
Armoni, Adi (*with* Shifman, M.; Veneziano, Gabriele) Refining the proof of planar equivalence. (English summary) **2005k:81359**
Bando, Masako (*with* Kugo, Taichiro; Sugamoto, Akio; Terunuma, Sachiko) Pentaquark baryons in string theory. (English summary) **2005g:81345**
Barbón, José L. F. (*with* Hoyos, Carlos; Mateos, David; Myers, Robert C.) The holographic life of the η'. (English summary) **2005h:81424**
Bern, Zvi (*with* Dixon, Lance J.; Kosower, David A.) Two-loop $g \to gg$ splitting amplitudes in QCD. (English summary) **2005g:81346**
— (*with* De Freitas, Abilio) Two-loop helicity amplitudes for fermion-fermion scattering. (English summary)
Bochicchio, Marco Solving loop equations by Hitchin systems via holography in large-N QCD_4. (English summary) **2005e:81261**
Bolokhov, P. A. *see* **Bolokhov, T. A., 2005j:81204**
Bolokhov, T. A. (*with* Bolokhov, P. A.) An interpretation of the Vakulenko-Kapitanskiĭ estimate. (Russian. English and Russian summaries) **2005j:81204**
Braun, M. A. (*with* Vechernin, V. V.) The mechanism of quark coalescence near the threshold. (Russian. Russian summary) **2005i:81188**
Damgaard, P. H. *see* **Andersson, Toke et al., 2005h:81423**
Davies, C. T. H. *see* **Follana, E. et al., 2005h:81426**
De Freitas, Abilio *see* **Bern, Zvi**
Dixon, Lance J. *see* **Bern, Zvi et al., 2005g:81346**
Espinosa, José Ramón (*with* Ibarra, Alejandro) Flavour symmetries and Kähler operators. (English summary) **2005h:81425**
Follana, E. (*with* Hart, Alistair; Davies, C. T. H.) Index theorem and universality properties of the low-lying eigenvalues of improved staggered quarks. (English summary) **2005h:81426**
Frishman, Y. *see* **Abrashkin, A. et al., 2005f:81291**
Fyodorov, Yan V. *see* **Akemann, G. et al., 2005b:81227**
Gabadadze, Gregory (*with* Iglesias, Alberto) On theta dependence of glueballs from AdS/CFT. (English summary) **2005h:81427**
Gubarev, F. V. (*with* Zakharov, V. I.) The Berry phase and monopoles in gluodynamics. (English summary)
Hart, Alistair *see* **Follana, E. et al., 2005h:81426**
Hoyos, Carlos *see* **Barbón, José L. F. et al., 2005h:81424**
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Ibarra, Alejandro *see* **Espinosa, José Ramón, 2005h:81425**
Iglesias, Alberto *see* **Gabadadze, Gregory, 2005h:81427**
Jaffe, Robert (*with* Wilczek, Frank) Diquarks and exotic spectroscopy. (English summary)
Katanaev, M. O. Topologically nontrivial one-dimensional solutions in the Skyrme model. (Russian. Russian summary) **2005c:81247**
Kondo, Kei-Ichi Magnetic condensation, abelian dominance, and instability of Savvidy vacuum. (English summary)
Kosower, David A. *see* **Bern, Zvi et al., 2005g:81346**
Kugo, Taichiro *see* **Bando, Masako et al., 2005g:81345**
Malbouisson, A. P. C. (*with* Malbouisson, J. M. C.; Santana, A. E.; da Silva, J. C.) Boundary behaviour of the four-point function in the 3-dimensional Gross-Neveu model. (English summary) **2005d:81381**
Malbouisson, J. M. C. *see* **Malbouisson, A. P. C. et al., 2005d:81381**
Mateos, David *see* **Barbón, José L. F. et al., 2005h:81424**
Myers, Robert C. *see* **Barbón, José L. F. et al., 2005h:81424**
O'Hara, Paul P. Rotational invariance and baryonic structure. (English summary) **2005a:81263**
Osborn, J. C. *see* **Akemann, G. et al., 2005k:81358**
Oxman, Luis E. String breaking and $\mathbb{Z}_2$ local symmetry in the 3D Georgi-Glashow model. (English summary) **2005h:81428**
Sannino, F. (*with* Shifman, M.) Effective Lagrangians for orientifold theories. (English summary) **2005g:81347**
Santana, A. E. *see* **Malbouisson, A. P. C. et al., 2005d:81381**
Shifman, M. (*with* Yung, A.) Non-abelian string junctions as confined monopoles. (English summary) **2005h:81429**
— *see also* **Sannino, F., 2005g:81347** *and* **Armoni, Adi et al., 2005k:81359**
Siegel, Warren *see* **Andreev, Oleg**
da Silva, J. C. *see* **Malbouisson, A. P. C. et al., 2005d:81381**
Sonnenschein, Jacob *see* **Abrashkin, A. et al., 2005f:81291**
Splittorff, K. (*with* Verbaarschot, J. J. M.) Supersymmetric quenching of the Toda lattice equation. (English summary) **2005b:81228**
— *see also* **Andersson, Toke et al., 2005h:81423** *and* **Akemann, G. et al., 2005k:81358**
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Zakharov, V. I. *see* **Gubarev, F. V.**

Items with secondary classifications in 81V05

Auckly, Dave (*with* Kapitanskiĭ, L. V.) Holonomy and Skyrme's model. (English summary) **2005g:58033**
Belitsky, A. V. (*with* Braun, V. M.; Gorskiĭ, A. S.; Korchemsky, G. P.) Integrability in QCD and beyond. (English summary) **2005h:81350**
Bern, Zvi (*with* Dixon, Lance J.; Kosower, David A.) $\mathcal{N} = 4$ super-Yang-Mills theory, QCD and collider physics. (English and French summaries) **2005k:81301**
Blümlein, Johannes Algebraic relations between harmonic sums and associated quantities. (English summary) **2005g:11260**
— Mathematical structure of anomalous dimensions and QCD Wilson coefficients in higher order. (English summary) **2005i:11182**
Bolognesi, Stefano The holomorphic tension of vortices. (English summary) **2005k:81303**
Braun, V. M. *see* **Belitsky, A. V. et al., 2005h:81350**
Brodsky, Stanley J. *see* **Raufeisen, Jörg, 2005i:82037**
Bruckmann, Falk (*with* Engelhardt, Michael) Writhe of center vortices and topological charge: an explicit example. (English summary) **2005b:81096**
Buniy, Roman V. (*with* Kephart, Thomas W.) Existence of finite-energy lumps in classical field theories. (English summary) **2005b:81097**
Cachazo, Freddy (*with* Svrček, Peter; Witten, Edward) MHV vertices and tree amplitudes in gauge theory. (English summary) **2005k:81185**
De Pietri, Roberto *see* **Fateev, V. A. et al., 2005h:45005**
Di Renzo, Francesco (*with* Mantovi, Andrea; Miccio, Vincenzo; Schröder, York) 3-d lattice Yang-Mills free energy to four loops. (English summary)
Dixon, Lance J. (*with* Glover, E. W. Nigel; Khoze, Valentin V.) MHV rules for Higgs plus multi-gluon amplitudes. (English summary) **2005m:81213**
— *see also* **Bern, Zvi et al., 2005k:81301**
Efimov, G. V. On the stability of quantum electrodynamics and quantum chromodynamics. (Russian. Russian summary) **2005k:81360**
Engelhardt, Michael *see* **Bruckmann, Falk, 2005b:81096**
Evans, Nick (*with* Shock, Jonathan P.) Chiral dynamics from AdS space. (English summary) **2005h:81276**
Faria da Veiga, Paulo A. (*with* O'Carroll, Michael L.; Schor, Ricardo) Existence of baryons, baryon spectrum and mass splitting in strong coupling lattice QCD. (English summary) **2005j:81123**
Fateev, V. A. (*with* De Pietri, Roberto; Onofri, E.) Exact and semiclassical approach to a class of singular integral operators arising in fluid mechanics and quantum field theory. (English summary) **2005h:45005**
Fujikawa, Kazuo (*with* Suzuki, Hiroshi) ★ Path integrals and quantum anomalies. **2005g:81290**

Ghoroku, Kazuo (*with* Yahiro, Masanobu) Chiral symmetry breaking driven by dilaton. (English summary) **2005f:81111**
Glover, E. W. Nigel *see* **Dixon, Lance J. et al., 2005m:81213**
Gorskiĭ, A. S. *see* **Belitsky, A. V. et al., 2005h:81350**
Hanany, Amihay (*with* Tong, David) Vortex strings and four-dimensional gauge dynamics. (English summary) **2005m:81305**
Hart, Alistair (*with* von Hippel, G. M.; Horgan, R. R.; Storoni, L. C.) Automatically generating Feynman rules for improved lattice field theories. (English summary) **2005m:81223**
Hasenbusch, Martin (*with* Necco, Silvia) SU(3) lattice gauge theory with a mixed fundamental and adjoint plaquette action: lattice artefacts. (English summary) **2005h:81251**
von Hippel, G. M. *see* **Hart, Alistair et al., 2005m:81223**
Hong, Sungho (*with* Yoon, Sukjin; Strassler, Matthew J.) Quarkonium from the fifth dimension. (English summary) **2005c:81202**
Horgan, R. R. *see* **Hart, Alistair et al., 2005m:81223**
Imai, Takahito *see* **Shinohara, Toru et al., 2005d:81253**
Intriligator, Ken (*with* Wecht, Brian) RG fixed points and flows in SQCD with adjoints. (English summary) **2005f:81156**
Ioannidou, Theodora (*with* Kleihaus, Burkhard; Zakrzewski, Wojciech J.) Axially symmetric SU(3) gravitating skyrmions. (English summary) **2005i:58021**
Joyce, William P. Quark state confinement as a consequence of the extension of the Bose-Fermi recoupling to SU(3) colour. (English summary) **2005a:81087**
Kapitanskiĭ, L. V. *see* **Auckly, Dave, 2005g:58033**
Kephart, Thomas W. *see* **Buniy, Roman V., 2005b:81097**
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Kondo, Kei-Ichi *see* **Shinohara, Toru et al., 2005d:81253**
Korchemsky, G. P. *see* **Belitsky, A. V. et al., 2005h:81350**
Kosower, David A. *see* **Bern, Zvi et al., 2005k:81301**
Krusch, S. (*with* Sutcliffe, Paul M.) Sphalerons in the Skyrme model. (English summary) **2005d:81245**
Luo, Mingxing (*with* Wen, Congkao) One-loop maximal helicity violating amplitudes in $N = 4$ super Yang-Mills theories. (English summary) **2005i:81107**
Mantovi, Andrea *see* **Di Renzo, Francesco et al.**
Miccio, Vincenzo *see* **Di Renzo, Francesco et al.**
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Onofri, E. *see* **Fateev, V. A. et al., 2005h:45005**
Pons, Josep M. (*with* Russo, Jorge G.; Talavera, Pere) Semiclassical string spectrum in a string model dual to large N QCD. (English summary) **2005f:81202**
Ramond, Pierre ★ Journeys beyond the standard model. **2005c:81004**
Raufeisen, Jörg (*with* Brodsky, Stanley J.) Statistical physics and light-front quantization. (English summary) **2005i:82037**
Reity, Olexander K. (*with* Rubish, Vasyl′ V.; Myhalyna, Svitlana I.) The WKB method for the Dirac equation with vector-scalar potentials in $2+1$ and $3+1$ dimensions. (English summary) **2005e:81069**
Roiban, Radu (*with* Spradlin, Marcus; Volovich, Anastasia) A googly amplitude from the B-model in twistor space. (English summary) **2005g:81259**
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Rubish, Vasyl′ V. *see* **Reity, Olexander K. et al., 2005e:81069**
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Schröder, York *see* **Di Renzo, Francesco et al.**
Shinohara, Toru (*with* Imai, Takahito; Kondo, Kei-Ichi) The most general and renormalizable maximal abelian gauge. (English summary) **2005d:81253**
Shock, Jonathan P. *see* **Evans, Nick, 2005h:81276**
Simonov, Yu. A. RG solutions for α_s at large N_c in $d = 3+1$ QCD. (English summary) **2005m:81211**
Singh, Simmi *see* **Soni, S. K., 2005a:81001**
Soni, S. K. (*with* Singh, Simmi) ★ Supersymmetry. **2005a:81001**
Spradlin, Marcus *see* **Roiban, Radu et al., 2005g:81259**
Storoni, L. C. *see* **Hart, Alistair et al., 2005m:81223**
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Wu, Jun-Bao (*with* Zhu, Chuan-Jie) MHV vertices and fermionic scattering amplitudes in gauge theory with quarks and gluinos. (English summary) **2005m:81214**
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Yoon, Sukjin *see* **Hong, Sungho et al., 2005c:81202**
Zakrzewski, Wojciech J. *see* **Ioannidou, Theodora et al., 2005i:58021**
Zhu, Chuan-Jie The googly amplitudes in gauge theory. (English summary) **2005g:81209**
— *see also* **Wu, Jun-Bao, 2005m:81214**

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Aghababaie, Y. (*with* Burgess, Clifford P.) Effective actions, boundaries, and precision calculations of Casimir energies. (English summary)
Amour, Laurent (*with* Grébert, Benoît; Guillot, Jean-Claude) L'électron habillé non relativiste dans un champ magnétique. (English and French summaries) [The dressed nonrelativistic electron in a magnetic field] **2005m:81340**
Barbaroux, Jean-Marie (*with* Chen, Thomas; Vugal′ter, S. A.) Binding conditions for atomic N-electron systems in non-relativistic QED. (English summary) **2005g:81348**
— (*with* Dimassi, Mouez; Guillot, Jean-Claude) Quantum electrodynamics of relativistic bound states with cutoffs. (English summary) **2005g:81349**
Bashir, A. (*with* Delbourgo, Robert) The nonperturbative propagator and vertex in massless quenched QED_4. (English summary) **2005c:81248**
Bell, Sarah B. M. (*with* Cullerne, John P.; Diaz, Bernard M.) QED derived from the two-body interaction. (English summary) **2005f:81292**
— (*with* Cullerne, John P.; Diaz, Bernard M.) The two-body interaction with a circle in time. (English summary) **2005f:81293**
Bender, Carl M. (*with* Cavero-Pelaez, Ines; Milton, Kimball A.; Shajesh, K. V.) $\mathcal{PT}$-symmetric quantum electrodynamics. (English summary) **2005m:81341**
Boudet, Roger On the potential of the Coulomb field and the gauge potentials; dialogue with a standard physicist. (English and French summaries) **2005e:81262**
Burgess, Clifford P. *see* **Aghababaie, Y.**
Catto, Isabelle (*with* Hainzl, Christian) Self-energy of one electron in non-relativistic QED. (English summary) **2005f:81294**
— (*with* Exner, Pavel; Hainzl, Christian) Enhanced binding revisited for a spinless particle in nonrelativistic QED. (English summary) **2005g:81350**
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Chen, Thomas *see* **Barbaroux, Jean-Marie et al., 2005g:81348**
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Cougo-Pinto, M. V. (*with* Farina de Souza, Carlos; Mendes, J. F. M.) Casimir effect in kappa deformed electrodynamics. (English summary) **2005g:81351**
Crenshaw, Michael E. Quantum electrodynamic foundations of continuum electrodynamics. (English summary) **2005j:81205**
Cullerne, John P. *see* **Bell, Sarah B. M. et al., 2005f:81292** *and* **2005f:81293**
Darewych, Jurij W. *see* **Terekidi, Andrei G., 2005d:81385** *and* **2005k:81364**
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Dzhunushaliev, Vladimir Colored flux tube in Euclidean spacetime. (English summary)
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Farina de Souza, Carlos *see* **Cougo-Pinto, M. V. et al., 2005g:81351**
Ferrari, Christian (*with* Kovařík, Hynek) Resonance width in crossed electric and magnetic field. (English summary) **2005h:81430**
Ferreira, M. M., Jr. Electron-electron interaction in a Maxwell-Chern-Simons model with a purely spacelike Lorentz-violating background. (English summary) **2005k:81361**
Ford, L. H. *see* **Yu, Hongwei, 2005h:81433**
Graham, Noah (*with* Khemani, V.; Quandt, M.; Schröder, Oliver; Weigel, Herbert[2]) Quantum QED flux tubes in $2+1$ and $3+1$ dimensions. (English summary) **2005h:81431**
Grébert, Benoît *see* **Amour, Laurent et al., 2005m:81340**
Griesemer, M. Exponential decay and ionization thresholds in non-relativistic quantum electrodynamics. (English summary) **2005d:81382**
Guillot, Jean-Claude *see* **Barbaroux, Jean-Marie et al., 2005g:81349** *and* **Amour, Laurent et al., 2005m:81340**
Hainzl, Christian (*with* Hirokawa, Masao; Spohn, Herbert) Binding energy for hydrogen-like atoms in the Nelson model without cutoffs. (English summary) **2005k:81362**
— *see also* **Catto, Isabelle et al., 2005f:81294** *and* **2005g:81350**
Haro, Jaume The semiclassical theory of quantized fields in classical electromagnetic backgrounds. (English and Spanish summaries) **2005g:81352**
Hirokawa, Masao *see* **Hainzl, Christian et al., 2005k:81362**
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— Analysis of ground states of atoms interacting with a quantized radiation field. (English summary)
Hüffel, Helmuth (*with* Kelnhofer, Gerald) QED revisited: proving equivalence between path integral and stochastic quantization. (English summary) **2005d:81383**
Jaffe, Robert *see* **Scardicchio, A., 2005i:81189**
Kellendonk, Johannes (*with* Schulz-Baldes, Hermann) Quantization of edge currents for continuous magnetic operators. (English summary) **2005g:81353**
Kelnhofer, Gerald *see* **Hüffel, Helmuth, 2005d:81383**
Khemani, V. *see* **Graham, Noah et al., 2005h:81431**
Khvedelidze, A. M. (*with* Kovner, Alex; McMullan, David) The Higgs field and the ultraviolet behaviour of the vortex operator in $2+1$ dimensions. (English summary) **2005f:81296**
Kijowski, Jerzy (*with* Rudolph, Gerd; Śliwa, C.) Charge superselection sectors for scalar QED on the lattice. (English summary) **2005g:81354**
Kovařík, Hynek *see* **Ferrari, Christian, 2005h:81430**
Kovner, Alex *see* **Khvedelidze, A. M. et al., 2005f:81296**
Kozoriz, V. I. (*with* Musin, Yu. R.) On the problem of the scattering of a classical particle in a Coulomb field. (Russian. Russian summary) **2005a:81264**
Kuna, Maciej (*with* Naudts, Jan) Covariance approach to the free photon field. (English summary) **2005d:81384**
Lieb, Elliott H. The stability of matter and quantum electrodynamics. (English summary) **2005k:81363**
— Quantum mechanics, the stability of matter and quantum electrodynamics. (English summary)
McMullan, David *see* **Khvedelidze, A. M. et al., 2005f:81296**
Mendes, J. F. M. *see* **Cougo-Pinto, M. V. et al., 2005g:81351**
Milton, Kimball A. *see* **Bender, Carl M. et al., 2005m:81341**
Morchio, G. (*with* Strocchi, F.) Charge density and electric charge in quantum electrodynamics. (English summary) **2005a:81265**
Musin, Yu. R. *see* **Kozoriz, V. I., 2005a:81264**
Naudts, Jan (*with* De Roeck, Wojciech) Rigorous theory of the quantum electromagnetic field in the presence of quantum sources. (English summary) **2005h:81432**

— *see also* **Kuna, Maciej**, 2005d:81384
Quandt, M. *see* **Graham, Noah et al.**, 2005h:81431
Rudolph, Gerd *see* **Kijowski, Jerzy et al.**, 2005g:81354
Scardicchio, A. (*with* Jaffe, Robert) Casimir effects: an optical approach. I. Foundations and examples. (English summary) **2005i:81189**
Schröder, Oliver *see* **Graham, Noah et al.**, 2005h:81431
Schulz-Baldes, Hermann *see* **Kellendonk, Johannes**, 2005g:81353
Shahin, G. Y. (*with* Shikakhwa, M. S.) Scalar pair production in the Aharonov-Bohm potential. (English summary)
Shajesh, K. V. *see* **Bender, Carl M. et al.**, 2005m:81341
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Śliwa, C. *see* **Kijowski, Jerzy et al.**, 2005g:81354
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Suttorp, L. G. *see* **van Wonderen, A. J.**
Terekidi, Andrei G. (*with* Darewych, Jurij W.) Variational derivation of relativistic fermion-antifermion wave equations in QED. (English summary) **2005d:81385**
— (*with* Darewych, Jurij W.) Variational two-fermion wave equations in quantum electrodynamics: muoniumlike systems. (English summary) **2005k:81364**
Vugal'ter, S. A. *see* **Barbaroux, Jean-Marie et al.**, 2005g:81348
Weigel, Herbert[2] *see* **Graham, Noah et al.**, 2005h:81431
van Wonderen, A. J. (*with* Suttorp, L. G.) The oscillator model for dissipative QED in an inhomogeneous dielectric. (English summary)
Wosiek, J. Quantum mechanics of the electric charge in a cut Fock space. (English summary) **2005j:81206**
Yu, Hongwei (*with* Ford, L. H.) Vacuum fluctuations and Brownian motion of a charged test particle near a reflecting boundary. (English summary) **2005h:81433**
Zakowicz, Stephan Square-integrable wave packets from the Volkov solutions. (English summary) **2005m:81342**

Items with secondary classifications in 81V10

Accardi, Luidgi (*with* Lu, Yun Gang) Free probability and quantum electrodynamics. (English summary) **2005f:81124**
Alziary, Bénédicte (*with* Fleckinger, Jacqueline; Takáč, Peter) Eigenfunctions and Hardy inequalities for a magnetic Schrödinger operator in $\mathbb{R}^2$. (English summary) **2005d:81127**
Aniello, Paolo *see* **Militello, B. et al.**
Arai, Asao Mathematical theory of quantum particles interacting with a quantum field. (English summary) **2005d:81232**
Balakin, A. B. (*with* Kurbanova, Veronika; Zimdahl, Winfried) Precession of a particle with anomalous magnetic moment in electromagnetic and gravitational pp-wave fields. (English and Russian summaries) **2005i:83009**
Barbieri, Marco (*with* De Martini, F.; Di Nepi, G.; Mataloni, P.) Towards a test of nonlocality without "supplementary assumptions". (English summary) **2005h:81010**
Bazzocchi, F. (*with* Cirafici, M.; Maccaferri, Carlo; Profumo, S.) Matrix models of noncommutative 3D lattice gauge theories. (English summary) **2005e:81244**
Bednorz, Adam Bosonization of QED fermions on the $(3+1)$D lattice. (English summary) **2005e:81156**
Benci, Vieri (*with* Fortunato, Donato) Matter and electromagnetic fields: remarks on the dualistic and unitarian standpoints. (English summary) **2005k:35390**
Bérubé, Josée (*with* Winternitz, Pavel) Integrable and superintegrable quantum systems in a magnetic field. (English summary) **2005d:81128**
Białynicki-Birula, Iwo The structure of the vacuum and the photon number. (English summary) (*see* **2005c:81005**)
Boyer, Timothy H. Blackbody radiation, conformal symmetry, and the mismatch between classical mechanics and electromagnetism. (English summary) **2005i:82002**
Bruneau, Vincent (*with* Raïkov, George D.) High energy asymptotics of the magnetic spectral shift function. (English summary) **2005g:47144**
Burch, Aidan Histories electromagnetism. (English summary) **2005g:81179**
Cao, Zhuo-Liang *see* **Yang, Ming[6] et al.**, 2005m:81052
Chryssomalakos, Chryssomalis (*with* Franco, Alfredo; Reyes-Coronado, Alejandro) Spin-1/2 particle on a cylinder with radial magnetic field. (English summary) **2005b:81032**
Cirafici, M. *see* **Bazzocchi, F. et al.**, 2005e:81244
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Donoghue, John F. *see* **Holstein, Barry R.**, 2005h:81237
Faĭnberg, V. Ya. *see* **Valverde, J. S. et al.**
Fatollahi, A. H. (*with* Mohammadzadeh, H.) On the classical dynamics of charges in noncommutative QED. (English summary)
Ferrari, A. F. (*with* Girotti, H. O.; Gomes, Marcelo O. C.; Petrov, A. Yu.; Ribeiro, Anderson André Genro; Rivelles, Victor O.; da Silva, A. J.) Superfield covariant analysis of the divergence structure of noncommutative supersymmetric QED_4. (English summary) **2005f:81159**
Fleckinger, Jacqueline *see* **Alziary, Bénédicte et al.**, 2005d:81127
Fortunato, Donato *see* **Benci, Vieri**, 2005k:35390
Fournais, Søren Erratum: "The magnetisation of large atoms in strong magnetic fields" [Comm. Math. Phys. **216** (2001), no. 2, 375–393; MR1814852 (2002b:81179)]. **2005d:81389**
Franco, Alfredo *see* **Chryssomalakos, Chryssomalis et al.**, 2005b:81032
Fujikawa, Kazuo (*with* Suzuki, Hiroshi) ★ Path integrals and quantum anomalies. **2005g:81290**
Georgiev, Lachezar S. A universal conformal field theory approach to the chiral persistent currents in the mesoscopic fractional quantum Hall states. (English summary) **2005j:81212**
Ginibre, J. (*with* Velo, G.) Long range scattering and modified wave operators for the Maxwell-Schrödinger system. I. The case of vanishing asymptotic magnetic field. (English summary) **2005b:35234**
Girotti, H. O. *see* **Ferrari, A. F. et al.**, 2005f:81159
(Goldfarb, Steven) *see* **Martin, Philippe André[1]**, 2005f:81001
Gomes, Marcelo O. C. *see* **Ferrari, A. F. et al.**, 2005f:81159
González, Joanna (*with* Orszag, Miguel) Quantum cloning and cavity QED. (English summary)
Guo, Guang-Can *see* **Ye, Liu**, 2005b:81019
Hirokawa, Masao (*with* Hiroshima, Fumio; Spohn, Herbert) Ground state for point particles interacting through a massless scalar Bose field. (English summary) **2005h:81206**
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Holstein, Barry R. (*with* Donoghue, John F.) Classical physics and quantum loops. (English summary) **2005h:81237**
Horváthy, Peter A. (*with* Plyushchaĭ, M. S.) Nonrelativistic anyons in external electromagnetic field. (English summary) **2005k:81377**
Huang, Yan-Xia (*with* Zhan, Ming-Sheng) Remote preparation of multipartite pure state. (English summary) **2005c:81027**
Iftimie, Viorel Uniqueness and existence of the integrated density of states for Schrödinger operators with magnetic field and electric potential with singular negative part. (English summary) **2005m:35062**
Jaekel, Marc-Thierry (*with* Reynaud, Serge) Space-time localization with electromagnetic fields. (English summary) **2005i:81014**
Jilcott, Steven W., Jr. The AC Stark effect and the time-dependent Born-Oppenheimer approximation. (English summary) **2005c:81253**
(Jordan, Andrew N.) *see* **Martin, Philippe André[1]**, 2005f:81001
Kawai, Takahiro (*with* Stapp, Henry P.) On infra-red singularities associated with QC photons. **2005d:81251**
Kiessling, Michael K.-H. Electromagnetic field theory without divergence problems. I. The Born legacy. (English summary) **2005h:81003a**
— Electromagnetic field theory without divergence problems. II. A least invasively quantized theory. (English summary) **2005h:81003b**
Kondrat'ev, Vladimir (*with* Maz'ya, Vladimir; Shubin, Mikhail) Discreteness of spectrum and strict positivity criteria for magnetic Schrödinger operators. (English summary) **2005a:81069**
Kurbanova, Veronika *see* **Balakin, A. B. et al.**, 2005i:83009
(Leach, Samuel) *see* **Martin, Philippe André[1]**, 2005f:81001
Lieb, Elliott H. (*with* Loss, Michael) Existence of atoms and molecules in non-relativistic quantum electrodynamics. (English summary) **2005e:81268**
Loss, Michael *see* **Lieb, Elliott H.**, 2005e:81268
Low, F. E. Motion of an electron in a weak, spatially uniform external electric field (English summary) **2005c:81049**
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Marchuk, N. G. Coordinate-free form of the Dirac equation for an electron. (Russian) **2005f:81100**
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Melgaard, Michael (*with* Ouhabaz, El Maati; Rozenblyum, G. V.) Negative discrete spectrum of perturbed multivortex Aharonov-Bohm Hamiltonians. (English summary) **2005f:81062**
— (*with* Ouhabaz, El Maati; Rozenblyum, G. V.) Erratum to: "Negative discrete spectrum of perturbed multivortex Aharonov-Bohm Hamiltonians" [Ann. Henri Poincaré 5 (2004), no. 5, 979–1012; MR2091985 (2005f:81062)]. **2005k:81072**
Messina, Antonio[2] *see* **Militello, B. et al.**
Militello, B. (*with* Aniello, Paolo; Messina, Antonio[2]) Coarse grained and fine dynamics in trapped ion Raman schemes. (English summary)
Milton, Kimball A. Anomalies in $\mathscr{PT}$-symmetric quantum field theory. (English summary) **2005c:81193**
Mobed, N. *see* **Singh, Dinesh Dyal et al.**, 2005f:81290
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Ouhabaz, El Maati *see* **Melgaard, Michael et al.**, 2005f:81062 *and* 2005k:81072
Ozawa, Tohru (*with* Yama-Uchi, Kazuyuki) Structure of Dirac matrices and invariants for nonlinear Dirac equations. (English summary) **2005m:35244**
Panigrahi, Prasanta K. (*with* Shreecharan, Tangirala) Induced magnetic moment in noncommutative Chern-Simons scalar QED. (English summary) 2005k:81345
Papini, G. *see* **Singh, Dinesh Dyal et al.**, 2005f:81290
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Richard, Serge (*with* Tiedra de Aldecoa, Rafael) On perturbations of Dirac operators with variable magnetic field of constant direction. (English summary) 2005m:81097
Rivelles, Victor O. *see* **Ferrari, A. F. et al.**, 2005f:81159
Rothen, François *see* **Martin, Philippe André[1]**, 2005f:81001
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Sakamoto, Makoto[1] (*with* Tanimura, Shogo) An extension of Fourier analysis for the n-torus in the magnetic field and its application to spectral analysis of the magnetic Laplacian. (English summary) **2005a:81061**
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Shterenberg, Roman G. Absolute continuity of the spectrum of the two-dimensional magnetic periodic Schrödinger operator with positive electric potential. (English summary) **2005d:35185**
— An example of a periodic magnetic Schrödinger operator with a degenerate lower edge of the spectrum. (Russian. Russian summary) **2005d:35220**
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da Silva, A. J. *see* **Ferrari, A. F. et al., 2005f:81159**
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Spohn, Herbert *see* **Hirokawa, Masao et al., 2005h:81206**
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Valverde, J. S. (*with* Pimentel, B. M.; Faĭnberg, V. Ya.) Equivalence of multiphoton Green functions in the Duffing-Kemmer-Petiau and Klein-Gordon-Fock statistical quantum field theories. (Russian. Russian summary)
Velo, G. *see* **Ginibre, J., 2005b:35234**
Volovich, Igor V. (*with* Prokhorenko, D. V.) Renormalizations in quantum electrodynamics, and Hopf algebras. (Russian. Russian summary) **2005g:81203**
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Yang, Ming[6] (*with* Song, Wei[2]; Cao, Zhuo-Liang) Entanglement swapping without joint measurement. (English summary) **2005m:81052**
Ye, Liu (*with* Guo, Guang-Can) Scheme for entanglement concentration of atomic entangled states in cavity QED. (English summary) **2005b:81019**
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Zheng, Shi-Biao Quantum nonlocality and generation of multi-mode Schrödinger cat states. (English summary) **2005j:81029**
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Aldrovandi, R. (*with* de Andrade, V. C.; Barbosa, A. L.; Pereira, J. G.) Mass generation from Lie algebra extensions. (English summary) **2005i:81190**
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Barbosa, A. L. *see* **Aldrovandi, R. et al., 2005i:81190**
Chae, Dongho (*with* Tarantello, Gabriella) On planar selfdual electroweak vortices. (English and French summaries) **2005b:81229**
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Ne'eman, Yuval (*with* Sternberg, Shlomo; Fairlie, D. B.) Superconnections for electroweak su(2/1) and extensions, and the mass of the Higgs. (English summary) **2005h:81434**
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Sternberg, Shlomo *see* **Ne'eman, Yuval et al., 2005h:81434**
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Denner, A. (*with* Pozzorini, S.) An algorithm for the high-energy expansion of multi-loop diagrams to next-to-leading logarithmic accuracy. (English summary) **2005m:81212**
Gavrilik, Alexandre M. Quantum groups and Cabibbo mixing. (English summary)
Pozzorini, S. *see* **Denner, A., 2005m:81212**
Ramond, Pierre ★ Journeys beyond the standard model. **2005c:81004**

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Rajaraman, Arvind *see* **Feng, Jonathan L. et al.**
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Items with secondary classifications in 81V17

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Ambjørn, Jan (*with* Jurkiewicz, Jerzy Władysław; Loll, R.) Renormalization of 3d quantum gravity from matrix models. (English summary) **2005k:83036**
Anderson, Edward (*with* Barbour, Julian; Foster, Brendan Z.; Ó Murchadha, Niall) Scale-invariant gravity: geometrodynamics. (English summary) **2005a:83087**
— Strong-coupled relativity without relativity. (English summary) **2005a:83080**
Anderson, Paul R. (*with* Balbinot, Roberto; Fabbri, Alessandro) Cutoff anti-de Sitter space/conformal-field-theory duality and the quest for braneworld black holes. (English summary) **2005k:83122**
Arcioni, Giovanni On 't Hooft's S-matrix ansatz for quantum black holes. (English summary) **2005i:83052**
Arkani-Hamed, Nima (*with* Cheng, Hsin-Chia; Luty, Markus A.; Mukohyama, Shinji) Ghost condensation and a consistent infrared modification of gravity. (English summary) **2005d:83151**
— (*with* Schwartz, Matthew D.) Discrete gravitational dimensions. (English summary) **2005f:83027**
Ashtekar, Abhay (*with* Lewandowski, Jerzy) Background independent quantum gravity: a status report. (English summary) **2005g:83043**
Avramidi, Ivan G. A noncommutative deformation of general relativity. (English summary) **2005a:83073**
Ayón-Beato, Eloy (*with* Hassaïne, Mokhtar) pp waves of conformal gravity with self-interacting source. (English summary) **2005k:83106**
Balbinot, Roberto (*with* Fagnocchi, Serena; Fabbri, Alessandro; Procopio, Giovanni P.) Backreaction in acoustic black holes. (English summary) **2005m:83057**
— *see also* **Anderson, Paul R. et al., 2005k:83122**
Bañados, Máximo (*with* Caro, Rodrigo) The holographic Ward identity: examples from 2 + 1 gravity. (English summary) **2005k:83108**
Barbero G., J. Fernando (*with* Mena Marugán, Guillermo A.; Villaseñor, Eduardo J. S.) Particles and vacuum for perturbative and nonperturbative Einstein-Rosen gravity. (English summary) **2005h:83162**
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Barrett, John W.[2] Geometrical measurements in three-dimensional quantum gravity. (English summary) **2005b:83034**
Basini, Giuseppe (*with* Capozziello, Salvatore) A general covariant symplectic structure from conservation laws. (English summary) **2005m:81172**
Bastianelli, Fiorenzo (*with* Schubert, Christian) One loop photon-graviton mixing in an electromagnetic field. I. (English summary) **2005k:83047**
Behera, Harihar (*with* Naik, P. C.) Gravitomagnetic moments and dynamics of Dirac (spin $\frac{1}{2}$) fermions in flat space-time Maxwellian gravity. (English summary) **2005f:83077**
Berkooz, Micha (*with* Craps, Ben; Kutasov, David; Rajesh, Govindan) Comments on cosmological singularities in string theory. (English summary) **2005b:83111**
de Berredo-Peixoto, Guilherme (*with* Shapiro, Ilya L.) Conformal quantum gravity with the Gauss-Bonnet term. (English summary) **2005h:83064**
Bizdadea, Constantin (*with* Cioroianu, Eugen Mihăiță; Lungu, Adriana Costelia; Saliu, Solange-Odile) No multi-graviton theories in the presence of a Dirac field. (English summary) **2005m:81318**
Bjerrum-Bohr, N. E. J. (*with* Donoghue, John F.; Holstein, Barry R.) Erratum: "Quantum corrections to the Schwarzschild and Kerr metrics" [Phys. Rev. D (3) **68** (2003), no. 8, 084005, 16 pp. (electronic); MR2039391 (2004k:83052)].
(Bjorken, James) *see* **Rovelli, Carlo, 2005m:83049**
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Bogacz, L. (*with* Burda, Zdzisław; Jurkiewicz, Jerzy Władysław) Fermions in 2d Lorentzian quantum gravity. (English summary) **2005b:83080**
Bojowald, Martin (*with* Lidsey, James E.; Mulryne, David J.; Singh, Parampreet; Tavakol, Reza) Inflationary cosmology and quantization ambiguities in semiclassical loop quantum gravity. (English summary) **2005h:83065**
— (*with* Maartens, Roy; Singh, Parampreet) Loop quantum gravity and the cyclic universe. (English summary) **2005i:83036**
— (*with* Morales Técotl, Hugo A.; Sahlmann, Hanno) Loop quantum gravity phenomenology and the issue of Lorentz invariance. (English summary) **2005m:83042**
Bombelli, Luca (*with* Winkler, Oliver) Comparison of QG-induced dispersion with standard physics effects. (English summary)
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Boos, Edward E. (*with* Mikhailov, Yuri S.; Smolyakov, Mikhail N.; Volobuev, I. P.) Energy scales in a stabilized brane world. (English summary) **2005k:83124**
Borgman, J. (*with* Ford, L. H.) Effects of quantum stress tensor fluctuations with compact extra dimensions. (English summary) **2005i:83100**
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— Flat space physics from holography. (English summary) **2005j:83107**
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Chamseddine, Ali H. SL(2, $\mathbb{C}$) gravity with a complex vierbein and its noncommutative extension. (English summary) **2005j:83073**
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Cohen, Marcus S. Clifford tetrads, null zig zags, and quantum gravity. (English summary) **2005g:83047**
Collins, John C. (*with* Perez, Alejandro; Sudarsky, Daniel; Urrutia, L. F.; Vucetich, Héctor) Lorentz invariance and quantum gravity: an additional fine-tuning problem? (English summary) **2005h:83067**
Colosi, Daniele (*with* Rovelli, Carlo) Simple background-independent Hamiltonian quantum model. (English summary) **2005d:83044**
Conrady, Florian (*with* Doplicher, Luisa; Oeckl, Robert; Rovelli, Carlo; Testa, Massimo) Minkowski vacuum in background independent quantum gravity. (English summary) **2005i:83037**
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Erratum to: "Quantum corrections to the Reissner-Nordström and Kerr-Newman metrics" [Phys. Lett. B **529** (2002), no. 1-2, 132–142; MR1891765 (2003b:83043)].
— *see also* **Bjerrum-Bohr, N. E. J. et al.**
Doplicher, Luisa *see* **Conrady, Florian et al., 2005i:83037**
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— *see also* **Bonanno, Alfio et al., 2005m:83043**
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Gambini, Rodolfo (*with* Porto, Rafael A.; Pullin, Jorge) Loss of quantum coherence from discrete quantum gravity. (English summary) **2005a:83039**
— (*with* Porto, Rafael A.; Pullin, Jorge) Fundamental decoherence from relational time in discrete quantum gravity: Galilean covariance. (English summary) **2005i:83039**
— (*with* Pullin, Jorge) Consistent discretization and loop quantum geometry. (English summary) **2005k:83049**
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García-Islas, J. Manuel $(2 + 1)$-dimensional quantum gravity, spin networks and asymptotics. (English summary) **2005b:83036**
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Han, Tao (*with* Willenbrock, Scott) Scale of quantum gravity. (English summary)
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Isham, C. J. Some reflections on the status of conventional quantum theory when applied to quantum gravity. (*see* **2005j:83002**)
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Konstandin, Thomas *see* **Donoghue, John F. et al.**
Kozameh, Carlos N. (*with* Parisi, Florencia) Lorentz invariance and the semiclassical approximation of loop quantum gravity. (English summary) **2005k:83051**
Król, Jerzy[2] Background independence in quantum gravity and forcing constructions. (English summary) **2005d:83049**
Krzywicki, Andrzej Random manifolds and quantum gravity. (English summary) **2005k:83052**
Kutasov, David *see* **Berkooz, Micha et al., 2005b:83111**
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Lidsey, James E. *see* **Bojowald, Martin et al., 2005h:83065**
Linde, Andrei D. Inflation, quantum cosmology, and the anthropic principle.
Litim, Daniel F. Fixed points of quantum gravity. (English summary) **2005h:83076**
Liu, Wen Biao Brick wall in static black holes. (English summary) **2005c:83038**
Livine, Etera R. (*with* Perez, Alejandro; Rovelli, Carlo) 2D manifold-independent spinfoam theory. (English summary) **2005c:83016**
— (*with* Oriti, Daniele) About Lorentz invariance in a discrete quantum setting. (English summary) **2005k:83053**
Loll, R. *see* **Ambjørn, Jan et al., 2005k:83036**
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Malecki, Justin John Inflationary quantum cosmology: general framework and exact Bianchi type I solution. (English summary) **2005i:83042**
Man'ko, Vladimir I. (*with* Marmo, Giuseppe; Stornaiolo, Cosimo) Radon transform of the Wheeler-DeWitt equation and tomography of quantum states of the universe. (English summary) **2005k:83054**
Maoz, Liat Wormholes in AdS. (English and French summaries) **2005k:83166**
Maran, Suresh K. Relating spin foams and canonical quantum gravity: $(n-1)+1$ formulation of nD spin foams. (English summary) **2005k:83038**
Markopoulou, Fotini Planck-scale models of the universe.
Marmo, Giuseppe *see* **Man'ko, Vladimir I. et al., 2005k:83054**
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Méndez, Fernando *see* **Aloisio, Roberto et al., 2005d:83037**
Mercuri, Simone (*with* Montani, Giovanni) Revised canonical quantum gravity via the frame fixing. (English summary) **2005a:83042**
— (*with* Montani, Giovanni) Dualism between physical frames and time in quantum gravity. (English summary) **2005b:83046**
Mielke, Eckehard W. (*with* Rincón Maggiolo, Alí A.) Rotating black hole solution in a generalized topological 3D gravity with torsion. (English summary) **2005b:83082**
Mikhailov, Yuri S. *see* **Boos, Edward E. et al., 2005k:83124**
Miković, A. Quantum field theory of open spin networks and new spin foam models. (English summary) **2005a:83036**
Minic, Djordje (*with* Tze, Chia-Hsiung) A general theory of quantum relativity. (English summary) **2005m:83045**
— *see also* **Jejjala, Vishnu et al., 2005i:83040**
Montani, Giovanni *see* **Mercuri, Simone, 2005a:83042** *and* **2005b:83046**
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Penrose, Roger The problem of spacetime singularities: implications for quantum gravity? (*see* **2005j:83002**)
Perez, Alejandro (*with* Sudarsky, Daniel) Radiative effects and dimension 5 operators arising from quantum gravity. (English summary) **2005m:83048**
— *see also* **Livine, Etera R. et al., 2005c:83016** *and* **Collins, John C. et al., 2005h:83067**
Pfeiffer, Hendryk Causal Barrett-Crane model: measure, coupling constant, Wick rotation, symmetries, and observables. (English summary) **2005a:83043**
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Roest, Diederik M-theory and gauged supergravities. (English summary) **2005i:83125**
Rovelli, Carlo A dialog on quantum gravity. (English summary) **2005c:83025**
— ★ Quantum gravity. **2005m:83049**
— *see also* **Livine, Etera R. et al., 2005c:83016**; **Colosi, Daniele, 2005d:83044**; **Fairbairn, Winston, 2005d:83046** *and* **Conrady, Florian et al., 2005i:83037**
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Schubert, Christian *see* **Bastianelli, Fiorenzo, 2005k:83047**
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Shao, Chang Gui *see* **Shao, D. et al., 2005m:83050**
Shao, D. (*with* Shao, Liang[2]; Saito, Michiyoshi; Shao, Chang Gui; Noda, Hujio) Cosmological term and extended loop representation of quantum gravity. (English summary) **2005m:83050**
Shao, Liang[2] *see* **Shao, D. et al., 2005m:83050**
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Smolin, Lee Quantum theories of gravity: results and prospects.

Smolyakov, Mikhail N. *see* **Boos, Edward E. et al., 2005k:83124**
Stewart, Ewan D. *see* **Jeong, Donghui et al.**
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Swain, John The Pauli exclusion principle and SU(2) versus SO(3) in loop quantum gravity. (English summary) **2005a:83045**
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Tavakol, Reza *see* **Bojowald, Martin et al., 2005h:83065**
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Varadarajan, Madhavan Path integral quantization of parametrized field theory. (English summary) **2005i:81086**
— The graviton vacuum as a distributional state in kinematic loop quantum gravity. (English summary) **2005k:83059**
Vaz, Cenalo (*with* Witten, Louis; Singh, Tejinder P.) Exact quantum state of collapse and black hole radiation. (English summary) **2005h:83079**
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Vucetich, Héctor *see* **Collins, John C. et al., 2005h:83067**
Wainwright, Chris (*with* Williams, Ruth M.) Area Regge calculus and discontinuous metrics. (English summary) **2005j:83026**
Wang, Charles H.-T. (*with* Kessari, Smaragda; Irvine, Edward R.) An action principle for the quantization of parametric theories and nonlinear quantum cosmology. (English summary) **2005a:83046**
— Nonlinear quantum gravity on the constant mean curvature foliation. (English summary) **2005k:83060**
Ward, B. F. L. Massive elementary particles and black holes. (English summary) **2005j:83071**
Warner, Nicholas P. Gauged supergravity and holographic field theory. (*see* **2005j:83002**)
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Yoshino, Hirotaka Lightlike limit of the boosted Kerr black holes in higher-dimensional spacetimes. (English summary) **2005k:83096**
Zubkov, M. A. Measure in the 2D Regge quantum gravity. (English summary) **2005m:83037**

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Items with secondary classifications in 81V19

Freedman, Michael Hartley (*with* Nayak, Chetan; Shtengel, Kirill; Walker, Kevin; Wang, Zhenghan) A class of P, T-invariant topological phases of interacting electrons. (English summary) **2005f:81225**
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Wang, Zhenghan *see* **Freedman, Michael Hartley et al., 2005f:81225**

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Abel, Steven A. (*with* Lebedev, Oleg Valerievich; Santiago, José) Flavour in intersecting brane models and bounds on the string scale. (English summary)
Almeida, C. A. S. *see* **Tahim, M. O., 2005d:81387**
Andreas, Björn (*with* Curio, Gottfried; Klemm, Albrecht) Towards the standard model spectrum from elliptic Calabi-Yau manifolds. (English summary) **2005d:81386**
Andrianov, A. A. (*with* Andrianov, V. A.; Giacconi, P.; Soldati, R.) Localization of light particles on fermion induced domain walls. (English and Russian summaries) **2005h:81435**
Andrianov, V. A. *see* **Andrianov, A. A. et al., 2005h:81435**
Bakker, B. L. G. (*with* Veselov, A. I.; Zubkov, M. A.) A hidden symmetry in the standard model. (English summary) **2005c:81250**
Birkedal, Andreas (*with* Chacko, Zacharia; Gaillard, Mary K.) Little supersymmetry and the supersymmetric little hierarchy problem. (English summary) **2005h:81436**
Bödeker, Dietrich (*with* Fromme, Lars; Huber, Stephan J.; Seniuch, Michael) The baryon asymmetry in the standard model with a low cut-off. (English summary) **2005k:81366**
Burgess, Clifford P. (*with* Matias, Joaquim; Quevedo, Fernando) MSLED: a minimal supersymmetric large extra dimensions scenario. (English summary) **2005j:81207**
Chacko, Zacharia *see* **Birkedal, Andreas et al., 2005h:81436**
Cheng, Hsin-Chia (*with* Low, Ian) Little hierarchy, little higgses, and a little symmetry. (English summary)
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Ellis, Jonathan Richard (*with* Heinemeyer, Sven; Olive, Keith A.; Weiglein, Georg) Indirect sensitivities to the scale of supersymmetry. (English summary)
Enqvist, Kari Curvatons in the minimally supersymmetric standard model. (English summary) **2005g:81356**
— (*with* Jokinen, Asko; Mazumdar, Anupam) Dynamics of minimal supersymmetric standard model flat directions consisting of multiple scalar fields. (English summary) **2005h:81437**
Fromme, Lars *see* **Bödeker, Dietrich et al., 2005k:81366**
Gaillard, Mary K. *see* **Birkedal, Andreas et al., 2005h:81436**
Giacconi, P. *see* **Andrianov, A. A. et al., 2005h:81435**
Goh, Hock-Seng (*with* Luty, Markus A.; Ng, Siew-Phang) Supersymmetry without supersymmetry. (English summary) **2005k:81367**
Hebecker, A. (*with* Westphal, A.) Gauge unification in extra dimensions: power corrections vs. higher dimension operators. (English summary)
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Huber, Stephan J. *see* **Bödeker, Dietrich et al., 2005k:81366**
Jokinen, Asko *see* **Enqvist, Kari et al., 2005h:81437**
Klemm, Albrecht *see* **Andreas, Björn et al., 2005d:81386**
Körs, Boris (*with* Nath, Pran) A supersymmetric Stueckelberg U(1) extension of the MSSM. (English summary) **2005j:81208**
Lebedev, Oleg Valerievich *see* **Abel, Steven A. et al.**
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Quevedo, Fernando *see* **Burgess, Clifford P. et al., 2005j:81207**
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Schmaltz, Martin The simplest little Higgs. (English summary)
Schücker, Thomas Noncommutative geometry and the standard model. (English summary) **2005m:81344**
Scrucca, Claudio A. (*with* Serone, Marco; Wulzer, Andrea; Silvestrini, Luca) Gauge-Higgs unification in orbifold models. (English summary) **2005e:81263**
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Serone, Marco *see* **Scrucca, Claudio A. et al., 2005e:81263**
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Soldati, R. *see* **Andrianov, A. A. et al., 2005h:81435**
Tahim, M. O. (*with* Almeida, C. A. S.) Gauge hierarchy from a topological viewpoint? (English summary) **2005d:81387**
Veselov, A. I. *see* **Bakker, B. L. G. et al., 2005c:81250**
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Abe, Hiroyuki (*with* Choi, Kiwoon; Jeong, Kwang-Sik; Okumura, Ken-ichi) Scherk-Schwarz supersymmetry breaking for quasi-localized matter fields and supersymmetry flavor violation. (English summary) **2005g:81293**
del Aguila, Francisco (*with* Pittau, Roberto) Recursive numerical calculus of one-loop tensor integrals. (English summary) **2005e:81145**
Anderson, Gregory W. (*with* Blažek, Tomáš) E_6 unification model building. III. Clebsch-Gordan coefficients in E_6 tensor products of the 27 with higher dimensional representations. (English summary) **2005h:81150**
Antoniadis, Ignatios (*with* Dimopoulos, Savas) Splitting supersymmetry in string theory. (English summary) **2005m:81229**
Arkani-Hamed, Nima (*with* Dimopoulos, Savas; Giudice, G. F.; Romanino, A.) Aspects of split supersymmetry. (English summary)
Arnowitt, R. (*with* Dutta, Bhaskar; Hu, Bo^2) Yukawa textures, neutrino masses and Hořava-Witten M-theory. (English summary) **2005a:81155**
Blažek, Tomáš *see* **Anderson, Gregory W., 2005h:81150**
Buchmüller, Wilfried (*with* Hamaguchi, Koichi; Lebedev, Oleg Valerievich; Ratz, Michael^2) Dual models of gauge unification in various dimensions. (English summary) **2005m:81236**
Cascales, Juan F. G. (*with* García del Moral, Maria Pilar; Uranga, Angel M.; Quevedo, Fernando) Realistic D-brane models on warped throats: fluxes, hierarchies and moduli stabilization. (English summary) **2005d:81275**
Choi, Kiwoon *see* **Abe, Hiroyuki et al., 2005g:81293**
Cvetič, Mirjam (*with* Papadimitriou, Ioannis N.; Shiu, Gary) Erratum to: "Supersymmetric three family SU(5) grand unified models from type IIA orientifolds with intersecting D6-branes" [Nuclear Phys. B **659** (2003), no. 1-2, 193–223; MR1981228 (2004f:81175)].
— (*with* Li, Tian-Jun; Liu, Tao) Supersymmetric Pati-Salam models from intersecting D6-branes: a road to the standard model. (English summary) **2005h:81268**
— (*with* Liu, Tao) Supersymmetric standard models, flux compactification and moduli stabilization. (English summary) **2005h:81269**
Deo, B. B. (*with* Maharana, L.) Particle spectrum of the supersymmetric standard model from the massless excitations of a four-dimensional superstring. (English summary) **2005b:81137**
Dijkstra, T. P. T. (*with* Huiszoon, Lennaert Rene; Schellekens, A. N.) Chiral supersymmetric standard model spectra from orientifolds of Gepner models. (English summary) **2005i:81123**
Dimopoulos, Savas *see* **Antoniadis, Ignatios, 2005m:81229** *and* **Arkani-Hamed, Nima et al.**
Dixon, Geoffrey Division algebras: family replication. (English summary) **2005g:81132**
Donagi, Ron Y. (*with* Faraggi, Alon E.) On the number of chiral generations in $Z_2 \times Z_2$ orbifolds. (English summary) **2005i:81124**

Dray, Tevian (*with* Manogue, Corinne A.) Using octonions to describe fundamental particles. (English summary) **2005b:81067**
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Faraggi, Alon E. *see* **Donagi, Ron Y., 2005i:81124**
Förste, Stefan (*with* Nilles, Hans Peter; Vaudrevange, Patrick; Wingerter, Akın) Heterotic brane world. (English summary) **2005k:83156**
Friedmann, Tamar (*with* Witten, Edward) Unification scale, proton decay, and manifolds of G_2 holonomy. (English summary) **2005h:81279**
Fukuyama, Takeshi (*with* Ilakovac, Amon; Kikuchi, Tatsuru; Meljanac, Stjepan; Okada, Nobuchika) SO(10) group theory for the unified model building. (English summary) **2005j:81069**
García del Moral, Maria Pilar *see* **Cascales, Juan F. G. et al., 2005d:81275**
Giudice, G. F. *see* **Arkani-Hamed, Nima et al.**
Haba, Naoyuki (*with* Yamashita, Toshifumi) Dynamical symmetry breaking in gauge-Higgs unification of 5D $\mathcal{N} = 1$ SUSY theory. (English summary) **2005d:81336**
Hamaguchi, Koichi *see* **Buchmüller, Wilfried et al., 2005m:81236**
Honecker, Gabriele Chiral $N = 1$ 4D orientifolds with D-branes at angles. (English summary) **2005i:81132**
— (*with* Ott, Tassilo) Getting just the supersymmetric standard model at intersecting branes on the $\mathbb{Z}_6$ orientifold. (English summary) **2005j:81146**
— (*with* Ott, Tassilo) Erratum: "Getting just the supersymmetric standard model at intersecting branes on the $\mathbb{Z}_6$ orientifold" [Phys. Rev. D (3) **70** (2004), no. 12, 126010, 25 pp. (electronic); MR2124223 (2005j:81146)]. **2005m:81258**
Hu, Bo² *see* **Arnowitt, R. et al., 2005a:81155**
Huang, Chao-Shang (*with* Jiang, Jing¹; Li, Tian-Jun) Supersymmetric SO(10) models inspired by deconstruction. (English summary) **2005k:81317**
Huiszoon, Lennaert Rene *see* **Dijkstra, T. P. T. et al., 2005i:81123**
Ilakovac, Amon *see* **Fukuyama, Takeshi et al., 2005j:81069**
Jack, Ian (*with* Jones, D. R. T.; Kord, A. F.) R-parity violation and general soft supersymmetry breaking. (English summary) **2005a:81224**
Jeannerot, Rachel (*with* Postma, Marieke) Majorana zero modes. (English summary) **2005j:83152**
Jeong, Kwang-Sik *see* **Abe, Hiroyuki et al., 2005g:81293**
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Kitazawa, Noriaki Dynamical generation of Yukawa interactions in intersecting D-brane models. (English summary) **2005h:81295**
— Supersymmetric composite models on intersecting D-branes. (English summary) **2005e:81182**
— (*with* Kobayashi, Tatsuo; Maru, Nobuhito; Okada, Nobuchika) Yukawa coupling structure in intersecting D-brane models. (English summary) **2005m:81262**
Kobayashi, Tatsuo (*with* Yoshioka, Koichi) Radiative stabilization of warped space. (English summary) **2005h:81375**
— (*with* Raby, Stuart; Zhang, Ren-Jie) Constructing 5d orbifold grand unified theories from heterotic strings. (English summary) **2005b:81150**
— (*with* Raby, Stuart; Zhang, Ren-Jie) Searching for realistic 4d string models with a Pati-Salam symmetry. Orbifold grand unified theories from heterotic string compactification on a $\mathbb{Z}_6$ orbifold. (English summary) **2005i:81136**
— *see also* **Kitazawa, Noriaki et al., 2005m:81262**
Kokorelis, Christos Exact standard model structures from intersecting D5-branes. (English summary) **2005d:81291**
Kord, A. F. *see* **Jack, Ian et al., 2005a:81224**
Kuperstein, Stanislav (*with* Sonnenschein, Jacob) Analytic non-supersymmetric background dual of a confining gauge theory and the corresponding plane wave theory of hadrons. (English summary) **2005d:81293**
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Ma, Ernest (*with* Mondragón, Myriam; Zoupanos, George) Finite SU(N)^k unification. (English summary) **2005k:81321**
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Okada, Nobuchika *see* **Fukuyama, Takeshi et al., 2005j:81069** *and* **Kitazawa, Noriaki et al., 2005m:81262**
Okumura, Ken-ichi *see* **Abe, Hiroyuki et al., 2005g:81293**
Ott, Tassilo Aspects of stability and phenomenology in type IIA orientifolds with intersecting D6-branes. (English summary) **2005c:81176**
— *see also* **Honecker, Gabriele, 2005j:81146** *and* **2005m:81258**
Ovrut, Burt A. (*with* Reinbacher, René; Pantev, Tony) Invariant homology on standard model manifolds. (English summary) **2005d:14056**
Pantev, Tony *see* **Ovrut, Burt A. et al., 2005d:14056**
Papadimitriou, Ioannis N. *see* **Cvetič, Mirjam et al.**
Pittau, Roberto *see* **del Aguila, Francisco, 2005e:81145**
Postma, Marieke *see* **Jeannerot, Rachel, 2005j:83152**
Quevedo, Fernando *see* **Cascales, Juan F. G. et al., 2005d:81275**
Raby, Stuart *see* **Kobayashi, Tatsuo et al., 2005b:81150** *and* **2005i:81136**
Ramond, Pierre ★ Journeys beyond the standard model. **2005c:81004**
Ratz, Michael² *see* **Buchmüller, Wilfried et al., 2005m:81236**
Reinbacher, René *see* **Ovrut, Burt A. et al., 2005d:14056**
Rizzo, Thomas G. Warped phenomenology of higher-derivative gravity. (English summary) **2005k:83144**
Romanino, A. *see* **Arkani-Hamed, Nima et al.**
Schellekens, A. N. *see* **Dijkstra, T. P. T. et al., 2005i:81123**
Shiu, Gary *see* **Cvetič, Mirjam et al.**
Sonnenschein, Jacob *see* **Kuperstein, Stanislav, 2005d:81293**
Uranga, Angel M. *see* **Cascales, Juan F. G. et al., 2005d:81275**
Vaudrevange, Patrick *see* **Förste, Stefan et al., 2005k:83156**
Wingerter, Akın *see* **Förste, Stefan et al., 2005k:83156**
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Zhang, Ren-Jie *see* **Kobayashi, Tatsuo et al., 2005b:81150** *and* **2005i:81136**
Zoupanos, George *see* **Ma, Ernest et al., 2005k:81321**

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Blennow, Mattias (*with* Ohlsson, Tommy) Exact series solution to the two flavor neutrino oscillation problem in matter. (English summary)
Borisov, A. B. *see* **Dai, Yang et al., 2005k:81369**
Boyer, K. *see* **Dai, Yang et al., 2005k:81369**
Chankowski, Piotr H. (*with* Lebedev, Oleg Valerievich; Pokorski, Stefan) Flavour violation in general supergravity. (English summary) **2005k:81368**
Dai, Yang (*with* Borisov, A. B.; Longworth, J. W.; Boyer, K.; Rhodes, C. K.) Quadratic reciprocity, the Higgs mass, and complexity. (English summary) **2005k:81369**
Lebedev, Oleg Valerievich *see* **Chankowski, Piotr H. et al., 2005k:81368**
Lev, F. M. Massless elementary particles in quantum theory over a Galois field. (Russian. Russian summary) **2005e:81264**
Longworth, J. W. *see* **Dai, Yang et al., 2005k:81369**
Ohlsson, Tommy *see* **Blennow, Mattias**
Pokorski, Stefan *see* **Chankowski, Piotr H. et al., 2005k:81368**
Rhodes, C. K. *see* **Dai, Yang et al., 2005k:81369**

Items with secondary classifications in 81V25

Aliev, A. N. (*with* Gümrükçüoğlu, A. E.) Gravitational field equations on and off a 3-brane world. (English summary) **2005h:83172**
Amelino-Camelia, Giovanni (*with* Doplicher, Luisa) D-particle-inspired analysis of localization limits in quantum gravity. (English summary) **2005h:83062**
Antonov, D. V. (*with* Del Debbio, Luigi; Ebert, Dietmar) k-string tensions in the 4-d SU(N)-inspired dual abelian-Higgs-type theory. (English summary) **2005k:81196**
Berti, Emanuele *see* **Cardoso, Vitor et al., 2005m:83059**
Bertolami, O. (*with* Páramos, J.) Astrophysical constraints on scalar field models. (English summary)
Braga, Nelson R. F. (*with* Ferreira, Cristine N.) Topological mass term in effective braneworld scenario with torsion. (English summary) **2005m:83118**
Burgess, Clifford P. (*with* Cline, James M.; Holman, Richard) Effective field theories and inflation. (English summary) **2005h:83266**
Burikham, Piyabut Remarks on limits on string scale from proton decay and low-energy amplitudes in braneworld scenario. (English summary) **2005k:83125**
Burinskiĭ, A. Ya. Orientifold D-string in the source of the Kerr spinning particle. **2005b:83019**
Cardoso, Vitor (*with* Berti, Emanuele; Cavaglià, Marco) What we (don't) know about black-hole formation in high-energy collisions. (English summary) **2005m:83059**
Cavaglià, Marco *see* **Cardoso, Vitor et al., 2005m:83059**
Cerdeño, David G. (*with* Muñoz, Carlos) Neutralino dark matter in supergravity theories with non-universal scalar and gaugino masses. (English summary) **2005h:83250**
Chun, Eung Jin (*with* Kim, Hang Bae; Kim, Yoonbai) Cosmology of antisymmetric tensor field in D-brane universe. (English summary) **2005m:83153**
Cline, James M. *see* **Burgess, Clifford P. et al., 2005h:83266**
Del Debbio, Luigi *see* **Antonov, D. V. et al., 2005k:81196**
Dimopoulos, Savas (*with* Kachru, Shamit; Kaloper, Nemanja; Lawrence, Albion; Silverstein, Eva) Generating small numbers by tunneling in multi-throat compactifications. (English summary) **2005k:83154**
Doplicher, Luisa *see* **Amelino-Camelia, Giovanni, 2005h:83062**
Doran, Chris *see* **Lasenby, Anthony, 2005k:83202**
Ebert, Dietmar *see* **Antonov, D. V. et al., 2005k:81196**
Esposito, Giampiero (*with* Gilkey, Peter B.; Kirsten, Klaus) Heat kernel coefficients for chiral bag boundary conditions. (English summary) **2005k:58045**
Feng, Jonathan L. Supersymmetry and cosmology. (English summary) **2005h:83273**
Ferreira, Cristine N. *see* **Braga, Nelson R. F., 2005m:83118**
Frampton, Paul H. (*with* Takahashi, Tomo) Candidates for the inflaton in quiver gauge theory. (English summary) **2005h:83274**
von Gersdorff, G. (*with* Pilo, Luigi; Quirós, Mariano; Riotto, Antonio; Sanz, V.) Supersymmetry from boundary conditions. (English summary) **2005k:81312**
Gilkey, Peter B. *see* **Esposito, Giampiero et al., 2005k:58045**
Gümrükçüoğlu, A. E. *see* **Aliev, A. N., 2005h:83172**
Helfer, Adam D. Quantum nature of black holes. (English summary) **2005j:83063**
Holman, Richard *see* **Burgess, Clifford P. et al., 2005h:83266**
Jones, Nicholas Collisions of cosmic F- and D-strings. (English and French summaries) **2005k:81241**
Kachru, Shamit *see* **Dimopoulos, Savas et al., 2005k:83154**
Kaloper, Nemanja Origami world. (English summary) **2005c:83063**
— *see also* **Dimopoulos, Savas et al., 2005k:83154**
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Kim, Sang Pyo *see* **Koh, Seoktae et al., 2005j:83154**
Kim, Yoonbai *see* **Chun, Eung Jin et al., 2005m:83153**
Kirsten, Klaus *see* **Esposito, Giampiero et al., 2005k:58045**
Klinkhamer, Frans R. (*with* Rupp, Christian W.) Spacetime foam, CPT anomaly, and photon propagation. (English summary) **2005h:83075**
Koh, Seoktae (*with* Kim, Sang Pyo; Song, Doo Jong) Gravitational wave spectrum in inflation with nonclassical states. (English summary) **2005j:83154**

Kuvshinov, V. I. (*with* Kuzmin, Andrei Vladimirovich) Deterministic chaos in quantum field theory. (English summary) **2005h:81411**
Kuzmin, Andrei Vladimirovich *see* **Kuvshinov, V. I., 2005h:81411**
Lasenby, Anthony (*with* Doran, Chris) Closed universes, de Sitter space, and inflation. (English summary) **2005k:83202**
Lawrence, Albion *see* **Dimopoulos, Savas et al., 2005k:83154**
Moshinsky, Marcos (*with* Nikitin, Anatolii G.) The many body problem in relativistic quantum mechanics. (English and Spanish summaries) **2005k:81378**
Muñoz, Carlos *see* **Cerdeño, David G., 2005h:83250**
Nikitin, Anatolii G. *see* **Moshinsky, Marcos, 2005k:81378**
Páramos, J. *see* **Bertolami, O.**
Pilo, Luigi *see* **von Gersdorff, G. et al., 2005k:81312**
Quirós, Mariano *see* **von Gersdorff, G. et al., 2005k:81312**
Redhead, Michael Broken bootstraps—the rise and fall of a research programme. (English summary) **2005m:81002**
Riotto, Antonio *see* **von Gersdorff, G. et al., 2005k:81312**
Rupp, Christian W. *see* **Klinkhamer, Frans R., 2005h:83075**
Sanz, V. *see* **von Gersdorff, G. et al., 2005k:81312**
Shiu, Gary (*with* Wang, Lian-Tao) D matter. (English summary) **2005d:81303**
Silverstein, Eva *see* **Dimopoulos, Savas et al., 2005k:83154**
Song, Doo Jong *see* **Koh, Seoktae et al., 2005j:83154**
Takahashi, Tomo *see* **Frampton, Paul H., 2005h:83274**
Trodden, Mark (*with* Vachaspati, Tanmay) Topology in the little Higgs models. (English summary) **2005j:58025**
Vachaspati, Tanmay *see* **Trodden, Mark, 2005j:58025**
Vilenkin, Alexander Quantum cosmology and eternal inflation. (*see* **2005j:83002**)
Wang, Lian-Tao *see* **Shiu, Gary, 2005d:81303**
Yoshino, Hirotaka Lightlike limit of the boosted Kerr black holes in higher-dimensional spacetimes. (English summary) **2005k:83096**

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Barea, J. (*with* Bijker, R.; Frank, Alejandro) A new look at nuclear supersymmetry through transfer experiments. (English summary)
Bijker, R. *see* **Barea, J. et al.**
Chalupka, S. *see* **Rubish, Vasyl′ V. et al., 2005h:81440**
Cho, Yong Min Reinterpretation of Faddeev-Niemi knot in Skyrme theory. (English summary) **2005f:81297**
Dobosh, V. M. *see* **Rubish, Vasyl′ V. et al., 2005h:81440**
Frank, Alejandro *see* **Barea, J. et al.**
Isozaki, Hiroshi (*with* Nakazawa, Hideo; Uhlmann, Gunther) Inverse scattering problem in nuclear physics—optical model. (English summary) **2005c:81251**
Kolomietz, V. M. (*with* Shlomo, S.) Nuclear Fermi-liquid drop model. (English summary) **2005a:81266**
Lazur, V. Yu. *see* **Rubish, Vasyl′ V. et al., 2005h:81440**
Manoukian, E. B. (*with* Sirininlakul, S.) Rigorous lower bounds for the ground state energy of matter. (English summary) **2005h:81438**
Nakazawa, Hideo *see* **Isozaki, Hiroshi et al., 2005c:81251**
Rosensteel, G. Solutions to a time-dependent su(3) mean field Hamiltonian. (English summary) **2005e:81265**
— Mean field theory of the general collective motion algebra gcm(3). (English summary) **2005h:81439**
Rubish, Vasyl′ V. (*with* Lazur, V. Yu.; Dobosh, V. M.; Chalupka, S.; Salák, M.) Non-geometrical symmetry and separation of variables in the two-centre problem with a confinement-type potential. (English summary) **2005h:81440**
Salák, M. *see* **Rubish, Vasyl′ V. et al., 2005h:81440**
Shlomo, S. *see* **Kolomietz, V. M., 2005a:81266**
Sirininlakul, S. *see* **Manoukian, E. B., 2005h:81438**
Uhlmann, Gunther *see* **Isozaki, Hiroshi et al., 2005c:81251**
Van Isacker, P. The interacting Boson model. (English summary) (*see* **2005b:00031**)
de Wet, J. A. Algebraic nuclear surfaces in string space. (English summary) **2005a:81267**

Items with secondary classifications in 81V35

Alcarás, J. A. Castilho (*with* Tambergs, J.; Krasta, T.; Ruža, J.; Katkevičius, O.) Plethysms and interacting boson models. (English summary) **2005f:81081**
(Chen, Jin Quan) *see* **Beauty of mathematics in science, 2005b:00031**
(Feng, D. H.) *see* **Beauty of mathematics in science, 2005b:00031**
Formánek, J. (*with* Lombard, R. J.; Mareš, Jiří) Wave equations with energy-dependent potentials. (English summary) **2005c:81055**
Gheorghe, Alexandru Cezar (*with* Raduta, A. A.) New results for the missing quantum numbers labelling the quadrupole and octupole boson basis. (English summary) **2005g:81133**
Ginocchio, Joseph N. Quantum mechanics on a sphere. (English summary) (*see* **2005b:00031**)
(Goldfarb, Steven) *see* **Martin, Philippe André[1], 2005f:81001**
(Iachello, F.) *see* **Beauty of mathematics in science, 2005b:00031**
(Jordan, Andrew N.) *see* **Martin, Philippe André[1], 2005f:81001**
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Lombard, R. J. *see* **Formánek, J. et al., 2005c:81055**
Mareš, Jiří *see* **Formánek, J. et al., 2005c:81055**
Martin, Philippe André[1] (*with* Rothen, François) ★ Many-body problems and quantum field theory. **2005f:81001**
Pearle, Philip Quasirelativistic quasilocal finite wave-function collapse model. (English summary) **2005m:81328**
(Ping, Jia Lun) *see* **Beauty of mathematics in science, 2005b:00031**
Pupyshev, V. V. The structure of regular solutions of the three-particle Schrödinger equation near a double collision point. (Russian. Russian summary) **2005d:81123**
Raduta, A. A. *see* **Gheorghe, Alexandru Cezar, 2005g:81133**
Rothen, François *see* **Martin, Philippe André[1], 2005f:81001**
Ruža, J. *see* **Alcarás, J. A. Castilho et al., 2005f:81081**
Tambergs, J. *see* **Alcarás, J. A. Castilho et al., 2005f:81081**
(Wang, Fan[1]) *see* **Beauty of mathematics in science, 2005b:00031**
Wu, Cheng-Li Dynamical symmetry approach to collective motions in many-body systems. (English summary) (*see* **2005b:00031**)

Items listed otherwise than by author

Beauty of mathematics in science ★ The beauty of mathematics in science. **2005b:00031**

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Amniat-Talab, M. (*with* Guérin, Stéphane; Jauslin, H. R.) Quantum averaging and resonances: two-level atom in a one-mode quantized field. (English summary) **2005j:81209**
Amusia, M. Ya. (*with* Msezane, A. Z.; Shaginyan, V. R.; Sokolovski, Dmitri) On the relation between the Hartree-Fock and Kohn-Sham approaches. (English summary) **2005d:81388**
Aniello, Paolo *see* **Militello, B. et al.**
Bacalis, N. C. *see* **Xiong, Zhuang**
Barcza, S. The diamagnetic Coulomb problem: an eigenvalue problem with two singularities. (English summary) **2005k:81370**
Baškienė, Angelė (*with* Janavičius, Arvydas Juozapas) Transformations of the Hamiltonian for Jastrow's correlation method. (English and Lithuanian summaries)
Battezzati, Michele Antonio Ottorino (*with* Magnasco, Valerio) Analytical evaluation of the short-range interaction energy for ground state H_2^+. (English summary) **2005e:81266**
Ben-Aryeh, Yacob (*with* Mann, Ady; Yaakov, Itamar) Rabi oscillations in a two-level atomic system with a pseudo-Hermitian Hamiltonian. (English summary) **2005g:81357**
Blaive, Bruno (*with* Cadilhac, Michel) Expansion of the hydrogenoid atomic wave functions in $1/n$. I. A Besselian extension of the Taylor expansion, and its group structure. (English summary)
— (*with* Cadilhac, Michel) Expansion of the hydrogenoid atomic wave functions in $1/n$. II. Besselian expansion of Kummer functions, and of the atomic wave functions. (English summary)
Brummelhuis, Raymond (*with* Ruskai, Mary Beth) One-dimensional models for atoms in strong magnetic fields. II. Anti-symmetry in the Landau levels. (English summary) **2005e:81267**
Cadilhac, Michel *see* **Blaive, Bruno**
Capuzzi, P. (*with* March, N. H.; Tosi, M. P.) Differential equation for the ground-state density of artificial two-electron atoms with harmonic confinement. (English summary) **2005m:81345**
Čížek, Jiří Karel *see* **Zamastil, J. et al., 2005c:81252**
Florea, Cristian Calcul du temps de vie radiatif d'un niveau quantique. [Computation of the radiative life span of a quantum level] (*see* **2005c:00018**)
Fournais, Søren Confinement to lowest Landau band and application to quantum current. (English summary) **2005a:81268**
— Erratum: "The magnetisation of large atoms in strong magnetic fields" [Comm. Math. Phys. **216** (2001), no. 2, 375–393; MR1814852 (2002b:81179)]. **2005d:81389**
Gruchowski, Marek (*with* Szmytkowski, Radosław) The finite-volume Dirac-Hartree-Fock method for confined relativistic many-electron systems. (English summary) **2005f:81298**
Guérin, Stéphane *see* **Amniat-Talab, M. et al., 2005j:81209**
Guster, Dennis *see* **Sultanov, Renat A., (2005g:65008)**
Hagen, Gaute (*with* Vaagen, J. S.; Hjorth-Jensen, M.) The contour deformation method in momentum space, applied to subatomic physics. (English summary) **2005k:81371**
Hjorth-Jensen, M. *see* **Hagen, Gaute et al., 2005k:81371**
Howard, I. A. *see* **March, N. H.**
Iachello, F. The method of symmetrized bosons. (English summary) (*see* **2005b:00031**)
Itin, A. P. Passages through resonances in classical dynamics of a driven hydrogen atom. (English summary) **2005a:81269**
Janavičius, Arvydas Juozapas *see* **Baškienė, Angelė**
Janowicz, Maciej (*with* Orłowski, Arkadiusz) A four-level "Θ-system": exact solvability and effective evolution operators via multiple scales. (English summary)
Jauslin, H. R. *see* **Amniat-Talab, M. et al., 2005j:81209**
Kalhous, K. *see* **Zamastil, J. et al., 2005c:81252**
Kalhous, M. *see* **Zamastil, J. et al.**
Kartono, Agus (*with* Winata, Toto; Sukirno) Applications of non-orthogonal Laguerre function basis in helium atom. (English summary) **2005m:81346**
Lieb, Elliott H. (*with* Loss, Michael) Existence of atoms and molecules in non-relativistic quantum electrodynamics. (English summary) **2005e:81268**
— The stability of matter and quantum electrodynamics. (*see* **2005f:81006**)
López-Bonilla, J. L. *see* **Núñez-Yépez, H. N. et al.**
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Mann, Ady *see* **Ben-Aryeh, Yacob et al., 2005g:81357**
March, N. H. (*with* Howard, I. A.) Relativistic density functional theory of the H atom in terms of a difference equation. (English summary)
— *see also* **Capuzzi, P. et al., 2005m:81345**
Martínez-y-Romero, R. P. (*with* Núñez-Yépez, H. N.; Salas-Brito, A. L.) An algebraic SU(1, 1) solution for the relativistic hydrogen atom. (English summary) **2005k:81372**
Messina, Antonio[2] *see* **Militello, B. et al.**
Militello, B. (*with* Aniello, Paolo; Messina, Antonio[2]) Coarse grained and fine dynamics in trapped ion Raman schemes. (English summary)
Msezane, A. Z. *see* **Amusia, M. Ya. et al., 2005d:81388**
Nersisyan, H. B. (*with* Zwicknagel, G.) Correspondence between quantum mechanical and classical treatments of ion-electron collisions in a magnetic field. (English summary)
Núñez-Yépez, H. N. (*with* López-Bonilla, J. L.; Salas-Brito, A. L.) New technique for evaluating ladder operators in the Coulomb problem. (English summary)
— *see also* **Martínez-y-Romero, R. P. et al., 2005k:81372**
Orłowski, Arkadiusz *see* **Janowicz, Maciej**

Robnik, Marko (*with* Romanovskiĭ, V. G.) Two-dimensional hydrogen atom in a strong magnetic field. (English summary) **2005b:81230**
Romanovskiĭ, V. G. *see* **Robnik, Marko**, **2005b:81230**
Rozmej, Piotr *see* **Turek, Marcin**
Rubinstein, Boris *see* **Zverev, Vladimir**, **2005b:81231**
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Skála, L. *see* **Zamastil, J. et al.**, **2005c:81252**
Sokolovski, Dmitri *see* **Amusia, M. Ya. et al.**, **2005d:81388**
Solovej, Jan Philip The ionization conjecture in Hartree-Fock theory. (English summary) **2005g:81358**
Sugawara-Tanabe, Kazuko Triple degeneracies in the pseudospin and spin symmetries in the relativistic mean-field with deformed potential. (English summary)
Sukirno *see* **Kartono, Agus et al.**, **2005m:81346**
Sultanov, Renat A. (*with* Guster, Dennis) Parallel computing for semiquantal few-body systems in atomic physics. (English summary) (*see* **2005g:65008**)
Szmytkowski, Radosław *see* **Gruchowski, Marek**, **2005f:81298**
Tosi, M. P. *see* **Capuzzi, P. et al.**, **2005m:81345**
Turek, Marcin (*with* Rozmej, Piotr) Spin-orbit entanglement in time evolution of radial wave packets in hydrogenic systems. (English summary)
Vaagen, J. S. *see* **Hagen, Gaute et al.**, **2005k:81371**
Winata, Toto *see* **Kartono, Agus et al.**, **2005m:81346**
Xiong, Zhuang (*with* Bacalis, N. C.) Generalization of Laguerre orbitals toward an accurate, concise and practical analytic atomic wave function. (English summary)
Yaakov, Itamar *see* **Ben-Aryeh, Yacob et al.**, **2005g:81357**
Ying, Long An *see* **Zheng, Wei-ying**, **2005d:81390**
Zamastil, J. (*with* Čížek, Jiří Karel; Kalhous, K.; Skála, L.; Šimánek, M.) The use of so(2, 1) algebra for the evaluation of atomic integrals: the study of two-electron atoms. (English summary) **2005c:81252**
— (*with* Čížek, Jiří Karel; Kalhous, M.; Skála, L.; Šimánek, M.) Erratum: "The use of so(2, 1) algebra for the evaluation of atomic integrals: the study of two-electron atoms" [J. Math. Phys. **45** (2004), no. 7, 2674–2693; MR2067581 (2005c:81252)]. (English summary)
Zheng, Wei-ying (*with* Ying, Long An) Finite element approximations to the discrete spectrum of the Schrödinger operator with the Coulomb potential. (English summary) **2005d:81390**
Zverev, Vladimir (*with* Rubinstein, Boris) Dynamical symmetries and well-localized hydrogenic wave packets. (English summary) **2005b:81231**
Zwicknagel, G. *see* **Nersisyan, H. B.**

Items with secondary classifications in 81V45

Ackad, E. (*with* Horbatsch, M.) Numerical solution of the Dirac equation by a mapped Fourier grid method. (English summary) **2005k:81054**
Burdík, Čestmír (*with* Haysak, M.; Nagy, Miroslav) The negative and positive charged two-dimensional three-body systems in adiabatic hyperspherical approach. (English summary) **2005j:81210**
Chair, Noureddine (*with* Dalabeeh, Mohammad A.) The noncommutative quadratic Stark effect for the H-atom. (English summary) **2005j:81059**
(Čížek, Jiří Karel) *see* **Weniger, Ernst Joachim**, **2005d:81146**
Curtright, Thomas *see* **Zachos, Cosmas K.**, **2005j:81086**
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De Haan, Michel Field theory reformulated without self-energy parts: the dressing operator. (English summary) **2005g:81334**
Diakonos, Fotis K. *see* **Pingel, Detlef et al.**, **2005k:37193**
Dolbeault, Jean (*with* Esteban, Maria J.; Loss, Michael; Vega, Luis) An analytical proof of Hardy-like inequalities related to the Dirac operator. (English summary) **2005h:35291**
Dukelsky, Jorge (*with* Dussel, G. G.; Esebbag, C.; Pittel, S.) Exactly solvable models for atom-molecule Hamiltonians. (English summary) **2005h:81447**
Dussel, G. G. *see* **Dukelsky, Jorge et al.**, **2005h:81447**
Efstathiou, K. (*with* Cushman, Richard; Sadovskiĭ, D. A.) Hamiltonian Hopf bifurcation of the hydrogen atom in crossed fields. (English summary) **2005d:37111**
Esebbag, C. *see* **Dukelsky, Jorge et al.**, **2005h:81447**
Esteban, Maria J. *see* **Dolbeault, Jean et al.**, **2005h:35291**
Fröhlich, Jürg (*with* Merkli, Marco; Sigal, I. M.) Ionization of atoms in a thermal field. (English summary) **2005f:82069**
Giovanazzi, S. Hawking radiation in sonic black holes. (English summary) **2005k:82106**
(Gümüş, S.) *see* **Guseinov, Israfil**
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— (*with* Mamedov, Bahtiyar) Evaluation of multicenter electronic attraction, electric field and electric field gradient integrals with screened and nonscreened Coulomb potentials over integer and noninteger n slater orbitals. (English summary)
— Comment on: "Calculation of two-center nuclear attraction integrals over integer and noninteger n-Slater type orbitals in nonlined-up coordinate systems" [J. Math. Chem. **33** (2003), no. 3-4, 181–188; MR1997433 (2004e:81230)] by T. Özdoğan, S. Gümüş and M. Kara. (English summary)
Hauksson, Bergthór (*with* Yngvason, Jakob) Asymptotic exactness of magnetic Thomas-Fermi theory at nonzero temperature. (English summary) **2005f:82025**
Haysak, M. *see* **Burdík, Čestmír et al.**, **2005j:81210**
Hecht, K. T. The perturbed Dirac-Coulomb problem via SO(2, 1) algebra. A dilemma! (*see* **2005b:00031**)
(Heisenberg, Werner Karl) *see* **Kovner, M. A.**, **2005f:81004**
Horbatsch, M. *see* **Ackad, E.**, **2005k:81054**
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Kovner, M. A. Quantum mechanical resonance and exchange forces in the works of Heisenberg. (Russian. English and Russian summaries) **2005f:81004**
Li, Xiangzhu *see* **Paldus, Josef et al.**, **2005e:81270**
Lieb, Elliott H. Quantum mechanics, the stability of matter and quantum electrodynamics. (English summary)
Loss, Michael *see* **Dolbeault, Jean et al.**, **2005h:35291**
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Merkli, Marco *see* **Fröhlich, Jürg et al.**, **2005f:82069**
Murthy, Ganpathy (*with* Shankar, Ramamurti) Hamiltonian theories of the fractional quantum Hall effect. (English summary) **2005e:81274**
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Nakatsuji, Hiroshi Scaled Schrödinger equation and the exact wave function. (English summary) **2005h:81113**
(Özdoğan, Telhat) *see* **Guseinov, Israfil**
Paldus, Josef (*with* Li, Xiangzhu; Petraco, Nicholas D. K.) General-model-space state-universal coupled-cluster method: diagrammatic approach. (English summary) **2005e:81270**
Palev, T. D. (*with* Stoilova, N. I.; Van der Jeugt, Joris) Microscopic and macroscopic properties of A-superstatistics. (English summary) **2005b:81052**
Panigrahi, Prasanta K. *see* **Sree Ranjani, S. et al.**, **2005h:81115**
Parfitt, D. G. W. (*with* Portnoi, M. E.) Exactly-solvable problems for two-dimensional excitons. (English summary) **2005d:81398**
Petraco, Nicholas D. K. *see* **Paldus, Josef et al.**, **2005e:81270**
Pingel, Detlef (*with* Schmelcher, Peter; Diakonos, Fotis K.) Stability transformation: a tool to solve nonlinear problems. (English summary) **2005k:37193**
Pittel, S. *see* **Dukelsky, Jorge et al.**, **2005h:81447**
Portnoi, M. E. *see* **Parfitt, D. G. W.**, **2005d:81398**
Pruß-Hunzinger, S. (*with* Sorg, M.) Fermions in relativistic Schrödinger theory. (English summary) **2005d:81189**
Rowe, David J. Coherent states, induced representations, geometric quantization, and their vector coherent state extensions. (English summary) **2005a:81100**
Sadovskiĭ, D. A. *see* **Efstathiou, K. et al.**, **2005d:37111**
Sano, Mitsusada M. The classical Coulomb three-body problem in the collinear eZe configuration. (English summary) **2005e:70017**
Schmelcher, Peter *see* **Pingel, Detlef et al.**, **2005k:37193**
Schust, P. (*with* Mattes, M.; Sorg, M.) Quantum entanglement in relativistic three-particle systems. (English summary) **2005b:81018**
Shankar, Ramamurti *see* **Murthy, Ganpathy**, **2005e:81274**
Sigal, I. M. *see* **Fröhlich, Jürg et al.**, **2005f:82069**
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Sree Ranjani, S. (*with* Kapoor, A. K.; Panigrahi, Prasanta K.) Band edge eigenfunctions and eigenvalues for periodic potentials through the quantum Hamilton-Jacobi formalism. (English summary) **2005h:81115**
Stoilova, N. I. *see* **Palev, T. D. et al.**, **2005b:81052**
Terekidi, Andrei G. (*with* Darewych, Jurij W.) Variational two-fermion wave equations in quantum electrodynamics: muoniumlike systems. (English summary) **2005k:81364**
Tomaschitz, R. Quantum tachyons. (English summary) **2005k:81387**
Van der Jeugt, Joris *see* **Palev, T. D. et al.**, **2005b:81052**
Vega, Luis *see* **Dolbeault, Jean et al.**, **2005h:35291**
Weniger, Ernst Joachim Mathematical properties of a new Levin-type sequence transformation introduced by Čížek, Zamastil, and Skála. I. Algebraic theory. (English summary) **2005d:81146**
Yngvason, Jakob *see* **Hauksson, Bergthór**, **2005f:82025**
Zachos, Cosmas K. (*with* Curtright, Thomas) Branes, quantum Nambu brackets and the hydrogen atom. (English summary) **2005j:81086**
(Zamastil, J.) *see* **Weniger, Ernst Joachim**, **2005d:81146**
Zhislin, G. M. Hamiltonians of pseudorelativistic atoms with finite mass nuclei: the structure of the discrete spectrum. (Russian) **2005i:81042**

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Andrae, D. *see* **Scott, T. C. et al.**, **2005i:81193**
Arteca, Gustavo A. (*with* Tapia, O.) A three-state model for electronic transitions represented in a generalized diabatic approach. (English summary)
Aspuru-Guzik, Alán (*with* Lester, William A., Jr.) Quantum Monte Carlo methods for the solution of the Schrödinger equation for molecular systems. (*see* **2005c:81001**)
Atabek, O. (*with* Lefebvre, Roland; Nguyen-Dang, T. T.) Theory of intense laser-induced molecular dissociation: from simulation to control. (*see* **2005c:81001**)
Atiyah, Michael (*with* Sutcliffe, Paul M.) Polyhedra in physics, chemistry and geometry. (English summary) **2005m:81347**
Aubert-Frécon, M. *see* **Scott, T. C. et al.**, **2005i:81193**
Balodis, Pedro A proof of Scott's correction for matter. (English summary) **2005m:81348**
Batista, Victor S. (*with* Brumer, Paul) Coherent control: principles and semiclassical implementations. (English summary) **2005a:81270**
Battezzati, Michele Antonio Ottorino (*with* Magnasco, Valerio) Asymptotic evaluation of the Keesom integral. (English summary) **2005f:81299**
Berlu, Lilian (*with* Safouhi, Hassan) A new algorithm for accurate and fast numerical evaluation of hybrid and three-centre two-electron Coulomb integrals over Slater-type functions. (English summary) **2005f:81300**
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Blanc, Xavier Lower bound for the interatomic distance in Lennard-Jones clusters. (English summary) **2005g:81359**
Bouferguene, Ahmed Addition theorem of Slater type orbitals: a numerical evaluation of Barnett-Coulson/Löwdin functions. (English summary)
Brihaye, Yves (*with* Hartmann, Betti) Fullerenic solitons. (English summary) **2005d:81391**
Brumer, Paul *see* **Batista, Victor S.**, **2005a:81270**

Bucknum, Michael J. (*with* Castro, Eduardo A.) Spiroconjugation in 1-, 2-, and 3-dimensions: the foundations of a spiro quantum chemistry. (English summary)
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— *see also* **Carbó-Dorca, Ramon**, **2005g:81360** *and* **2005g:81361**
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Cancès, Eric (*with* Defranceschi, Mireille; Kutzelnigg, Werner; Le Bris, Claude; Maday, Yvon) Computational quantum chemistry: a primer. (*see* **2005c:81001**)
Carbó-Dorca, Ramon (*with* Bultinck, Patrick) A general procedure to obtain quantum mechanical charge and bond order molecular parameters. (English summary) **2005g:81360**
— (*with* Bultinck, Patrick) Quantum mechanical basis for Mulliken population analysis. (English summary) **2005g:81361**
— Non-linear terms & variational approach in quantum QSPR. (English summary) **2005i:81191**
— *see also* **Bultinck, Patrick**, **2005d:81392**
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Coleman, A. J. The Kummer variety for N-particles. (English summary) (*see* **2005a:81003**)
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Değirmenci, Salih *see* **Özdoğan, Telhat et al.**, **2005k:81373**
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Dereli, Ömer *see* **Türkkan, Ercan et al.**
Desclaux, J. P. (*with* Dolbeault, Jean; Esteban, Maria J.; Indelicato, P.; Séré, E.) Computational approaches of relativistic models in quantum chemistry. (*see* **2005c:81001**)
Ding, Shi-Liang *see* **Wang, Xiao-Yan**, **2005e:81271**
Dolbeault, Jean *see* **Desclaux, J. P. et al.**, (**2005c:81001**)
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Esteban, Maria J. *see* **Desclaux, J. P. et al.**, (**2005c:81001**)
Faginas Lago, N. (*with* Laganà, A.) Initial value semiclassical approaches to reactive and non reactive transition probabilities. (English summary) (*see* **2005c:00015**)
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Gribov, L. A. (*with* Pavlyuchko, A. I.) ★ Вариационные методы решения ангармонических задач в теории колебательных спектров молекул. (Russian. Russian summary) [Variational methods for solving anharmonic problems in the theory of oscillatory spectra of molecules] **2005g:81362**
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— (*with* Mamedov, Bahtiyar) Calculations of overlap integrals over Slater-type orbitals using recurrence relations for expansion coefficients. (English summary) **2005f:81301**
— (*with* Mamedov, Bahtiyar) Calculation of multicenter electronic attraction, electric field and electric field gradient integrals of Coulomb potential over integer and noninteger n Slater orbitals. (English summary)
Harrison, Robert J. (*with* Fann, George I.; Yanai, Takeshi; Beylkin, Gregory) Multiresolution quantum chemistry in multiwavelet bases. (English summary) (*see* **2005g:65007**)
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Hu, Qian-Nan (*with* Liang, Yi-Zeng; Xu, Qing-Song; Fang, Kai-Tai; Peng, Xiao-Ling; Yin, Hong) Structural features hidden in the degree distributions of topological graphs. (English summary) **2005m:81349**
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Jiang, Guangfeng (*with* Zhang, Jianghua[2]; Zhang, XianRen; Wang, Wenchuan) Hypergeometric function expressions for the molecule-micropore Lennard-Jones potential. (English summary)
Jilcott, Steven W., Jr. The AC Stark effect and the time-dependent Born-Oppenheimer approximation. (English summary) **2005c:81253**
Jona-Lasinio, Giovanni *see* **Presilla, Carlo et al.**, (**2005c:81007**)
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Liang, Yi-Zeng *see* **Hu, Qian-Nan et al.**, **2005m:81349**
Ludeña, E. V. (*with* Karasiev, V. V.; Nieto, P.) Functional N-representability in density matrix and density functional theory. (English summary) (*see* **2005a:81003**)
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Magnasco, Valerio *see* **Battezzati, Michele Antonio Ottorino**, **2005f:81299**
Mamedov, Bahtiyar On the evaluation of Boys functions using downward recursion relation. (English summary)
— *see also* **Guseinov, Israfil**, **2005f:81301**
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Orbay, Metin *see* **Özdoğan, Telhat et al.**, **2005k:81373**
Özdoğan, Telhat (*with* Orbay, Metin; Değirmenci, Salih) Evaluation of two-center overlap integrals using Slater type orbitals in terms of Bessel type orbitals. (English summary) **2005k:81373**
Özmen, Ayhan *see* **Türkkan, Ercan et al.**
Paldus, Josef (*with* Li, Xiangzhu) Continuous groups and molecular electronic structure. (English summary) (*see* **2005b:00031**)
— (*with* Li, Xiangzhu; Petraco, Nicholas D. K.) General-model-space state-universal coupled-cluster method: diagrammatic approach. (English summary) **2005e:81270**
Passerone, Daniele (*with* Kevrekidis, Ioannis G.) Exploration of coarse free energy surfaces templated on continuum numerical methods. (English summary) (*see* **2005d:65007**)
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Presilla, Carlo (*with* Jona-Lasinio, Giovanni; Toninelli, Cristina) Classical versus quantum structures: the case of pyramidal molecules. (English summary) (*see* **2005c:81007**)
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Schütte, Christof (*with* Huisinga, Wilhelm) Biomolecular conformations can be identified as metastable sets of molecular dynamics. (*see* **2005c:81001**)
Scott, T. C. (*with* Aubert-Frécon, M.; Andrae, D.; Grotendorst, J.; Morgan, J. D., III; Glasser, M. L.) Exchange energy for two-active-electron diatomic systems within the surface integral method. (English summary) **2005i:81193**
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Theophilou, Andreas K. The new formulation of the density functional theory, the limitation of accuracy of the Kohn-Sham potential and its expression in terms of the external potential. (English summary) (*see* **2005a:81003**)
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Turinici, Gabriel (*with* Ramakhrishna, Viswanath; Li, Baiqing; Rabitz, Herschel) Optimal discrimination of multiple quantum systems: controllability analysis. (English summary) **2005h:81441**
Türkkan, Ercan (*with* Dereli, Ömer; Özmen, Ayhan; Yüksel, Hüseyin) A study of one-electron orbital-Zeeman integral over Cartesian Gaussian functions. (English summary)
Ugalde, Jesus M. *see* **Valderrama, Elmer G.**
Valderrama, Elmer G. (*with* Ugalde, Jesus M.) Electron correlation studies by means of local-scaling transformations and electron-pair density functions. (English summary)
Wang, Wenchuan *see* **Jiang, Guangfeng et al.**
Wang, Xiao-Yan (*with* Ding, Shi-Liang) An application of the dynamical Lie algebraic method to potential energy surface of the stable linear asymmetric tetratomic molecules. (English summary) **2005e:81271**
Xu, Qing-Song *see* **Hu, Qian-Nan et al.**, **2005m:81349**
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Berinde, Zoiţa (*with* Berinde, Mădălina) On a matrix representation of molecular structures. (English summary)
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Castro, J. J. *see* **Yépez, E. et al.**, **2005k:81102**
Corbera, Montserrat (*with* Llibre, Jaume; Pérez-Chavela, E.) Symmetric planar non-collinear relative equilibria for the Lennard-Jones potential 3-body problem with two equal masses. (English summary) **2005j:70016**
Creagh, Stephen C. Classical transition states in quantum theory. (English summary) **2005f:81070**
Dietz, Barbara (*with* Lombardi, Maurice; Seligman, Thomas H.) Unified theory of bound and scattering molecular Rydberg states as quantum maps. (English summary) **2005f:81074**
Dorninger, Dietmar (*with* Länger, Helmut) Factors of Chebyshev polynomials related to molecular graphs. (English summary) **2005c:05135**
Dukelsky, Jorge (*with* Dussel, G. G.; Esebbag, C.; Pittel, S.) Exactly solvable models for atom-molecule Hamiltonians. (English summary) **2005h:81447**
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Dussel, G. G. *see* **Dukelsky, Jorge et al.**, **2005h:81447**
Efstathiou, K. (*with* Sadovskiĭ, D. A.; Zhilinskiĭ, B. I.) Analysis of rotation-vibration relative equilibria on the example of a tetrahedral four atom molecule. (English

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Emiris, Ioannis Z. (*with* Nikitopoulos, Theodoros G.) Molecular conformation search by distance matrix perturbations. (English summary) **2005m:92070**
Esebbag, C. *see* **Dukelsky, Jorge et al., 2005h:81447**
Fan, Hong Yi[1] (*with* Fu, Liang) Normally ordered expansion of 3-dimensional bipartite Coulomb potential operator. (English summary) **2005d:81196**
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Finco, Domenico *see* **Adami, Riccardo et al., 2005h:81412**
Fournais, Søren (*with* Hoffmann-Ostenhof, Maria; Hoffmann-Ostenhof, Thomas; Østergaard Sørensen, Thomas) Analyticity of the density of electronic wavefunctions. (English summary) **2005f:35035**
— (*with* Hoffmann-Ostenhof, Maria; Hoffmann-Ostenhof, Thomas; Østergaard Sørensen, Thomas) Sharp regularity results for Coulombic many-electron wave functions. (English summary) **2005k:81376**
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(Gümüş, S.) *see* **Guseinov, Israfil**
Guseinov, Israfil Analytical evaluation of multicenter multielectron integrals of central and noncentral interaction potentials over Slater orbitals using overlap integrals and auxiliary functions. (English summary)
— Comment on: "Calculation of two-center nuclear attraction integrals over integer and noninteger n-Slater type orbitals in nonlined-up coordinate systems" [J. Math. Chem. **33** (2003), no. 3-4, 181–188; MR1997433 (2004e:81230)] by T. Özdoğan, S. Gümüş and M. Kara. (English summary)
— (*with* Mamedov, Bahtiyar) Evaluation of incomplete gamma functions using downward recursion and analytical relations. (English summary)
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Martin, André Stability of three- and four-body Coulomb systems. (English summary) (*see* **2005c:81007**)
Mascagni, Michael (*with* Simonov, Nikolai A.) Monte Carlo method for calculating the electrostatic energy of a molecule. (English summary) (*see* **2005c:00014**)
Muthaporn, C. (*with* Manoukian, E. B.) N^2 law for bosons in 2D. (English summary) **2005e:81058**
Nakano, Aiichiro *see* **Shimojo, Fuyuki et al.**
Nakatsuji, Hiroshi Scaled Schrödinger equation and the exact wave function. (English summary) **2005h:81113**
Neal, M. P. *see* **Kamberaj, H. et al., 2005b:70002**
Nikitopoulos, Theodoros G. *see* **Emiris, Ioannis Z., 2005m:92070**
Østergaard Sørensen, Thomas *see* **Fournais, Søren et al., 2005f:35035** *and* **2005k:81376**
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Schütte, Christof *see* **Hartmann, Carsten, 2005k:70036**
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Sheka, E. F. Violation of covalent bonding in fullerenes. (English summary) (*see* **2005c:00015**)
Shimojo, Fuyuki (*with* Kalia, Rajiv K.; Nakano, Aiichiro; Vashishta, Priya) Embedded divide-and-conquer algorithm on hierarchical real-space grids: parallel molecular dynamics simulation based on linear-scaling density functional theory. (English summary)
Simonov, Nikolai A. *see* **Mascagni, Michael, (2005c:00014)**
Soler, Juan *see* **Bokanowski, Olivier et al., 2005h:35290**
Soto, J. R. *see* **Yépez, E. et al., 2005k:81102**
Srivastava, Hari M. (*with* Gangopadhyay, Gautam) The absorption bandshape function of a molecule from a thermocoherent state and some associated multilinear generating-function relationships for Laguerre polynomials. (English summary) **2005m:33026**
Szmytkowski, Radosław *see* **Gruchowski, Marek, 2005f:81298**
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Tews, Michael Electronic structure and transport properties of quantum dots. (English summary) **2005g:81363**
Tieleman, Peter D. Atomistic simulations of ion channels. (*see* **2005h:92008**)
Vashishta, Priya *see* **Shimojo, Fuyuki et al.**
Vukičević, Damir (*with* Klein, Douglas J.) Characterization of distribution of pi-electrons amongst benzenoid rings for Randić's "algebraic" Kekulé structures. (English summary) **2005k:92078**
Waalkens, Holger (*with* Dullin, Holger R.; Richter, Peter H.) The problem of two fixed centers: bifurcations, actions, monodromy. (English summary) **2005k:70034**
Yamaoka, Hidetaka *see* **Iwai, Toshihiro, 2005e:81076**
Yépez, E. (*with* Soto, J. R.; Castro, J. J.; Calles, A.) A simple algorithm for the group theoretical classification of quantum states. II. The case of molecular electronic states. (English summary) **2005k:81102**
Yserentant, Harry On the regularity of the electronic Schrödinger equation in Hilbert spaces of mixed derivatives. (English summary) **2005j:35032**
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Items listed otherwise than by author

Handbook:
Numerical analysis ★ Handbook of numerical analysis. Vol. X. **2005c:81001**

81V70 Many-body theory; quantum Hall effect

Arima, A. *see* **Zhao, Yu Min[2] et al.**
Armour, E. A. G. (*with* Richard, J.-M.; Varga, Kálmán) Stability of few-charge systems in quantum mechanics. (English summary) **2005m:81350**
Banach, Zbigniew (*with* Larecki, Wieslaw) Nine-moment phonon hydrodynamics based on the modified Grad-type approach: hyperbolicity of the one-dimensional flow. (English summary)
Bardek, Velimir (*with* Jurman, Danijel) 2D Calogero model in the collective-field approach. (English summary) **2005h:81442**
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Bouzas, Antonio O. (*with* Méndez Gamboa, José) Rotating frames and gauge invariance in three-dimensional many-body quantum systems. (English summary) **2005k:81374**
Chandelier, F. (*with* Georgelin, Y.; Masson, Thierry; Wallet, J. C.) Quantum Hall conductivity in a Landau type model with a realistic geometry. II. (English summary) **2005m:81351**
da Cruz, Wellington Fractal sets of dual topological quantum numbers. (English summary) (*see* **2005a:00012**)
Dandoloff, R. (*with* Truong, T. T.) Quantum Hall-like effect on strips due to geometry. (English summary) **2005d:81394**
Dukelsky, Jorge (*with* Pittel, S.; Sierra, Germán) Colloquium: Exactly solvable Richardson-Gaudin models for many-body quantum systems. (English summary) **2005k:81375**
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Fei, Shao Ming Integrability and $\mathscr{PT}$-symmetry of N-body systems with spin-coupling δ-interactions. (English summary)
Fournais, Søren (*with* Hoffmann-Ostenhof, Maria; Hoffmann-Ostenhof, Thomas; Østergaard Sørensen, Thomas) Sharp regularity results for Coulombic many-electron wave functions. (English summary) **2005k:81376**
Georgelin, Y. *see* **Chandelier, F. et al., 2005m:81351**
Georgiev, Lachezar S. A universal conformal field theory approach to the chiral persistent currents in the mesoscopic fractional quantum Hall states. (English summary) **2005j:81212**
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Hoffmann-Ostenhof, Maria *see* **Fournais, Søren et al., 2005k:81376**
Hoffmann-Ostenhof, Thomas *see* **Fournais, Søren et al., 2005k:81376**
Horváthy, Peter A. (*with* Plyushchaĭ, M. S.) Nonrelativistic anyons in external electromagnetic field. (English summary) **2005k:81377**
Iwai, Toshihiro (*with* Hirose, Toru) Boundary conditions on wavefunctions for three bodies at singular configurations. (English summary) **2005h:81443**
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Jurman, Danijel *see* **Bardek, Velimir, 2005h:81442**
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Körcük, Eser (*with* Koç, Ramazan) Symmetries of the Jahn-Teller systems and their solvability. (English summary)
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Kunold, Alejandro (*with* Torres, Manuel) Hofstadter spectrum in electric and magnetic fields. (English summary) **2005j:81213**

Langmann, Edwin Exactly solvable models for 2D interacting fermions. (English summary) **2005b:81232**
Larecki, Wieslaw *see* **Banach, Zbigniew**
Li, Jia-Hua *see* **Yang, Wen-Xing et al., 2005j:81214**
Masson, Thierry *see* **Chandelier, F. et al., 2005m:81351**
Mauser, Norbert J. *see* **Bardos, Claude et al., 2005e:81272**
Méndez Gamboa, José *see* **Bouzas, Antonio O., 2005k:81374**
Mieck, B. Transfer-matrices of coherent state path integrals with the h_4- and su(2)-algebra for many-body systems with contact interactions. (English summary) **2005f:81303**
Morita, Hiroyuki *see* **Nishiyama, Seiya et al., 2005h:81444**
Moshinsky, Marcos (*with* Nikitin, Anatolii G.) The many body problem in relativistic quantum mechanics. (English and Spanish summaries) **2005k:81378**
Mossmann, S. (*with* Schulze, A.; Witthaut, Dirk; Korsch, H. J.) Two-dimensional Bloch oscillations: a Lie-algebraic approach. (English summary) **2005k:81379**
Murthy, Ganpathy (*with* Shankar, Ramamurti) Hamiltonian theories of the fractional quantum Hall effect. (English summary) **2005e:81274**
Nair, V. P. (*with* Randjbar-Daemi, Seif). Quantum Hall effect on S^3, edge states and fuzzy $S^3/\mathbf{Z}_2$. (English summary) **2005d:81397**
— *see also* **Karabali, Dimitra, 2005d:81396**
Nikitin, Anatolii G. *see* **Moshinsky, Marcos, 2005k:81378**
Nishiyama, Seiya (*with* Morita, Hiroyuki; Ohnishi, Hiromasa) Group-theoretical deduction of a dyadic Tamm-Dancoff equation by using a matrix-valued generator coordinate. (English summary) **2005h:81444**
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Østergaard Sørensen, Thomas *see* **Fournais, Søren et al., 2005k:81376**
Parfitt, D. G. W. (*with* Portnoi, M. E.) Exactly-solvable problems for two-dimensional excitons. (English summary) **2005d:81398**
Pastukhov, A. S. *see* **Vugalter, G. A., 2005e:81275**
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Plyushchaĭ, M. S. *see* **Horváthy, Peter A., 2005k:81377**
Polychronakos, Alexios P. Kac-Moody theories for colored phase space (quantum Hall) droplets. (English summary) **2005k:81380**
Portnoi, M. E. *see* **Parfitt, D. G. W., 2005d:81398**
Randjbar-Daemi, Seif *see* **Nair, V. P., 2005d:81397**
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Seredyuk, B. A. (*with* Tovstyuk, K. D.; Tovstyuk, N. K.) Applying symmetry properties of finite system to its field theory description. (English summary)
Shankar, Ramamurti *see* **Murthy, Ganpathy, 2005e:81274**
Sierra, Germán *see* **Dukelsky, Jorge et al., 2005k:81375**
Sitenko, Yurii A. (*with* Gorkavenko, Volodymyr M.) Induced quantum numbers of a magnetic vortex at non-zero temperature. (English summary) **2005k:81381**
Sorg, M. *see* **Verschl, M., 2005c:81254**
Tews, Michael Electronic structure and transport properties of quantum dots. (English summary) **2005g:81363**
Torres, Manuel *see* **Kunold, Alejandro, 2005j:81213**
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Tovstyuk, N. K. *see* **Seredyuk, B. A. et al.**
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Varga, Kálmán *see* **Armour, E. A. G. et al., 2005m:81350**
Verschl, M. (*with* Sorg, M.) Relativistic Schrödinger theory and the Hartree-Fock approach. (English summary) **2005c:81254**
Vugalter, G. A. (*with* Pastukhov, A. S.) Hofstadter's butterfly in a two-dimensional lattice consisting of two sublattices. (English summary) **2005e:81275**
Wallet, J. C. *see* **Chandelier, F. et al., 2005m:81351**
Witthaut, Dirk *see* **Mossmann, S. et al., 2005k:81379**
Yang, Wen-Xing (*with* Li, Jia-Hua; Zhan, Zhi-Ming; Jin, Li-Xia) Analytical results of eigenstates and eigenenergies for a classical model of many bosonic modes mixing. (English summary) **2005j:81214**
Yau, Horng-Tzer *see* **Elgart, Alexander et al., 2005e:81273**
Yoshinaga, Naotaka *see* **Zhao, Yu Min[2] et al.**
Zhan, Zhi-Ming *see* **Yang, Wen-Xing et al., 2005j:81214**
Zhao, Yu Min[2] (*with* Arima, A.; Yoshinaga, Naotaka) Regularities of many-body systems interacting by a two-body random ensemble. (English summary)

Items with secondary classifications in 81V70

Ackermann, Nils On a periodic Schrödinger equation with nonlocal superlinear part. (English summary) **2005i:35075**
Arikawa, M. (*with* Yamamoto, Takashi; Saiga, Y.; Kuramoto, Yoshio) Exact electron addition spectrum in 1D supersymmetric t-J model with $1/r^2$ interaction. (English summary) **2005g:82125**
Basu-Mallick, B. (*with* Bhattacharyya, Tanaya; Sen, Diptiman) Quantum bound states for a derivative nonlinear Schrödinger model and number theory. (English summary) **2005g:81139**
Benameur, Moulay-Tahar (*with* Oyono-Oyono, Hervé) Gap-labelling for quasi-crystals (proving a conjecture by J. Bellissard). (English summary) **2005f:46121a**
Bhattacharyya, Tanaya *see* **Basu-Mallick, B. et al., 2005g:81139**
Castro-Alvaredo, Olalla (*with* Fring, Andreas) Applications of quantum integrable systems. (English summary) **2005f:81090**
Chang, A. M. Chiral Luttinger liquids at the fractional quantum Hall edge. (English summary) **2005e:82115**
Chouchaoui, A. The three-body problem in the path integral formalism. (English summary) **2005i:81084**
Dunn, Martin *see* **McKinney, B. A. et al., 2005b:81042**
Fosco, Cesar Daniel (*with* Lopez, Ana) Aspects of noncommutative descriptions of planar systems in high magnetic fields. (English summary) **2005b:81209**
Fring, Andreas (*with* Korff, Christian) Exactly solvable potentials of Calogero type for q-deformed Coxeter groups. (English summary) **2005m:81136**
— *see also* **Castro-Alvaredo, Olalla, 2005f:81090**
Gates, S. James, Jr. (*with* Jellal, Ahmed; Saidi, El Hassan; Schreiber, Michael) Supersymmetric embedding of the quantum Hall matrix model. (English summary) **2005j:81182**
Gielerak, Roman (*with* Rałowski, Robert) Statistical mechanics of a class of anyonic systems. The rigorous approach. (English summary) **2005k:82005**
(Goldfarb, Steven) *see* **Martin, Philippe André[1], 2005f:81001**
Hall, Richard L. (*with* Lucha, Wolfgang; Schöberl, Franz F.) Relativistic N-boson systems bound by pair potentials $V(r_{ij}) = g(r_{ij}^2)$. (English summary) **2005g:81081**
Hansson, Thors Hans Fractionalization and low-energy gauge symmetries. (English summary)
Hardy, Yorick (*with* Steeb, Willi-Hans) Entanglement, Hubbard model, and symmetries. (English summary) **2005b:81013**
Jellal, Ahmed *see* **Gates, S. James, Jr. et al., 2005j:81182**
(Jordan, Andrew N.) *see* **Martin, Philippe André[1], 2005f:81001**
Karasëv, V. P. Dual algebraic pairs and polynomial Lie algebras in quantum physics: foundations and geometric aspects. (English summary) **2005g:81135**
Kellendonk, Johannes (*with* Schulz-Baldes, Hermann) Boundary maps for C^*-crossed products with $\mathbb{R}$ with an application to the quantum Hall effect. (English summary) **2005f:46131**
— (*with* Schulz-Baldes, Hermann) Quantization of edge currents for continuous magnetic operators. (English summary) **2005g:81353**
King, Ronald C. (*with* Toumazet, F.; Wybourne, B. G.) The square of the Vandermonde determinant and its q-generalization. (English summary) **2005g:33038**
Kolomeisky, Eugene B. *see* **Straley, Joseph P. et al., 2005g:82014**
Korff, Christian *see* **Fring, Andreas, 2005m:81136**
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Kuriyama, Atsushi (*with* da Providência, Constança; da Providência, João; Tsue, Yasuhiko; Yamamura, Masatoshi) A possible form of the orthogonal set in six kinds of boson operators—in relation to the su(2)- and its relevant algebras. (English summary) **2005f:81104**
— (*with* da Providência, Constança; da Providência, João; Tsue, Yasuhiko; Yamamura, Masatoshi) Note on the orthogonal set in six kinds of boson operators—in relation to the su(1, 1)- and its relevant algebras. (English summary) **2005f:81105**
Langmann, Edwin Second quantization of the elliptic Calogero-Sutherland model. (English summary) **2005h:81207**
(Leach, Samuel) *see* **Martin, Philippe André[1], 2005f:81001**
(Le Bris, Claude) *see* **Handbook: Numerical analysis, 2005c:81001**
Lieb, Elliott H. The stability of matter and quantum electrodynamics. (English summary) **2005k:81363**
— Quantum mechanics, the stability of matter and quantum electrodynamics. (English summary)
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Lucha, Wolfgang *see* **Hall, Richard L. et al., 2005g:81081**
Martin, Philippe André[1] (*with* Rothen, François) ★ Many-body problems and quantum field theory. **2005f:81001**
McKinney, B. A. (*with* Dunn, Martin; Watson, Deborah K.; Loeser, J. G.) N identical particles under quantum confinement: a many-body dimensional perturbation theory approach. (English summary) **2005b:81042**
Meljanac, Stjepan (*with* Samsarov, Andjelo) Universal properties of conformal quantum many-body systems. (English summary) **2005k:81073**
— (*with* Samsarov, Andjelo) Erratum to: "Universal properties of conformal quantum many-body systems" [Phys. Lett. B **613** (2005), no. 3-4, 221–225; MR2132213 (2005k:81073)].
Milne, Stephen C. *see* **Straley, Joseph P. et al., 2005g:82014**
Nachtergaele, Bruno (*with* Yau, Horng-Tzer) Derivation of the Euler equations from quantum dynamics. (English summary) **2005e:82071**
Narnhofer, Heide The Pauli principle for a quantum theory on $\mathbf{T}^2$ with magnetic field. (English summary) **2005d:81182**
Oyono-Oyono, Hervé *see* **Benameur, Moulay-Tahar, 2005f:46121a**
Palev, T. D. (*with* Stoilova, N. I.; Van der Jeugt, Joris) Microscopic and macroscopic properties of A-superstatistics. (English summary) **2005b:81052**
Paraoanu, Gh.-S. (*with* Stanescu, T. D.) Self-duality and periodicity at finite filling fraction. (English summary) **2005j:82079**
Poulton, C. G. *see* **Spence, Alastair, 2005j:82077**
da Providência, Constança *see* **Kuriyama, Atsushi et al., 2005f:81104** *and* **2005f:81105**
da Providência, João *see* **Kuriyama, Atsushi et al., 2005f:81104** *and* **2005f:81105**
Pulé, Joseph V. (*with* Verbeure, André F.; Zagrebnov, Valentin A.) Models with recoil for Bose-Einstein condensation and superradiance. (English summary) **2005m:82013**
Rałowski, Robert *see* **Gielerak, Roman, 2005k:82005**
Rothen, François *see* **Martin, Philippe André[1], 2005f:81001**
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Schulz-Baldes, Hermann *see* **Kellendonk, Johannes, 2005f:46131** *and* **2005g:81353**
Schütz, Gunter M. Exactly solvable models for many-body systems far from equilibrium. **2005c:82065**
Sen, Diptiman *see* **Basu-Mallick, B. et al., 2005g:81139**
Soldatov, A. V. On the stochastic variational approach to lower bounds for energy eigenvalues of few-body quantum systems. (English summary) **2005m:81086**
Spence, Alastair (*with* Poulton, C. G.) Photonic band structure calculations using nonlinear eigenvalue techniques. (English summary) **2005j:82077**
Stanescu, T. D. *see* **Paraoanu, Gh.-S., 2005j:82079**
Steeb, Willi-Hans *see* **Hardy, Yorick, 2005b:81013**
Stoilova, N. I. *see* **Palev, T. D. et al., 2005b:81052**
Straley, Joseph P. (*with* Kolomeisky, Eugene B.; Milne, Stephen C.) The Bose molecule in one dimension. (English summary) **2005g:82014**
Sugita, Ayumu Moments of generalized Husimi distributions and complexity of many-body quantum states. (English summary) **2005b:81087**

Sun, Chiachung *see* **Wei, Liqiang, 2005a:82021**
Tasaki, Hal Ferromagnetism in the Hubbard model: a constructive approach. (English summary) **2005c:82098**
Tong, David A quantum Hall fluid of vortices. (English summary) **2005b:81104**
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Tselyaev, V. I. A generalized Numerov method for linear second-order differential equations involving a first derivative term. (English summary) **2005c:65063**
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Wei, Liqiang (*with* Sun, Chiachung) Hierarchy Bloch equations for the reduced statistical density operators in canonical and grand canonical ensembles. (English summary) **2005a:82021**
Wybourne, B. G. *see* **King, Ronald C. et al., 2005g:33038**
Yamamoto, Takashi *see* **Arikawa, M. et al., 2005g:82125**
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Zagrebnov, Valentin A. *see* **Pulé, Joseph V. et al., 2005m:82013**
Zahariev, Federico E. (*with* Wang, Yan Alexander) Functional derivative of the universal density functional in Fock space. (English summary) **2005h:82012**

Items listed otherwise than by author

Handbook:
Numerical analysis ★ Handbook of numerical analysis. Vol. X. **2005c:81001**

81V80 Quantum optics

Abd Al-Kader, G. M. (*with* Obada, Abdel-Shafy F.) Four-component superposition of squeezed coherent states. (English summary)
Abdalla, M. Sebawe (*with* Obada, Abdel-Shafy F.; Abdel-Aty, Mahmoud) Von Neumann entropy and phase distribution of two mode parametric amplifier interacting with a single atom. (English summary)
— (*with* Leach, P. G. L.) Corrigendum: "Wigner functions for time-dependent coupled linear oscillators via linear and quadratic invariant processes" [J. Phys. A **38** (2005), no. 4, 881–893; MR2125240 (2005j:81092)]. **Abdel-Aty, Mahmoud** *see* **Abdalla, M. Sebawe et al.**
Abdel-Khalek, S. *see* **Obada, Abdel-Shafy F., 2005c:81258**
Aichele, Thomas *see* **Zwiller, Valéry et al., 2005k:81388**
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Alvarez, Gabriel (*with* Finkel, F.; González-López, Artemio; Rodríguez, Miguel Angel[2]) Quasi-exact solvability in nonlinear optics. (English summary) **2005c:81255**
An, Jun-Hong (*with* Wang, Shun Jin; Luo, Hong-Gang) Entanglement production and decoherence-free subspace of two single-mode cavities embedded in a common environment. (English summary) **2005k:81382**
Aragão, A. (*with* Monteiro, Paula B.; Avelar, A. T.; Baseia, B.) Superposition of new phase states: generation and properties. (English summary) **2005k:81383**
Arimondo, E. Bose-Einstein condensates as incubators of nonlinear and quantum optics. (English summary) **2005g:81364**
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Baseia, B. *see* **Aragão, A. et al., 2005k:81383**
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Bespalov, Victor G. *see* **Makarov, Nikolai S.**
Besse, Christophe (*with* Bidégaray-Fesquet, Brigitte; Bourgeade, Antoine; Degond, Pierre; Saut, Olivier) A Maxwell-Bloch model with discrete symmetries for wave propagation in nonlinear crystals: an application to KDP. (English summary) **2005d:81400**
Białynicki-Birula, Iwo The structure of the vacuum and the photon number. (English summary) (*see* **2005c:81005**)
Bidégaray-Fesquet, Brigitte (*with* Castella, François; Degond, Pierre) From Bloch model to the rate equations. (English summary) **2005e:81276**
— (*with* Castella, François; Dumas, Éric; Gisclon, M.) From Bloch model to the rate equations. II. The case of almost degenerate energy levels. (English summary) **2005i:81194**
— *see also* **Besse, Christophe et al., 2005d:81400**
Bishop, Alan R. (*with* Kalosakas, G.; Rasmussen, Kim Ø.; Kevrekidis, Panayotis G.) Localization in physical systems described by discrete nonlinear Schrödinger-type equations. (English summary) **2005d:81401**
— *see also* **Rybin, Andrei V. et al.**
Bourgeade, Antoine *see* **Besse, Christophe et al., 2005d:81400**
Boyarsky, Abraham *see* **Bracken, Paul, 2005e:81277**
Bracken, Paul (*with* Boyarsky, Abraham) A model for calculating the quantum potential for time-varying multi-slit systems. (English summary) **2005e:81277**
Braunstein, Samuel L. *see* **Nemoto, Kae, 2005i:81195**
Brida, G. (*with* Genovese, Marco; Gramegna, M.; Predazzi, E.) A conclusive experiment to throw more light on "light". (English summary)
Bullough, Robin K. (*with* Wadati, Miki) Optical solitons and quantum solitons. (English summary) **2005d:81402**
Byrne, Julie A. (*with* Gabitov, Ildar R.; Kovačič, Gregor) Polarization switching of light interacting with a degenerate two-level optical medium. (English summary) **2005j:81215**
Castaños, Octavio (*with* López-Peña, Ramón; Man′ko, Margarita A.; Man′ko, Vladimir I.) Squeeze tomography of quantum states. (English summary) **2005g:81365**
Castella, François *see* **Bidégaray-Fesquet, Brigitte et al., 2005e:81276** *and* **2005i:81194**
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Chadzitaskos, Goce (*with* Horowski, Maciej; Odzijewicz, Anatol; Tereszkiewicz, Agnieszka) The exact solution of the eigenvalue problem for the parametric down conversion process in the Kerr medium. (English summary)
— *see also* **Horowski, Maciej et al., 2005c:81257**
Chan, Kam Wai (*with* Law, Chi-Kwong; Fedorov, M. V.; Eberly, J. H.) Einstein localization in entangled light scattering. (English summary)
Chruściński, Dariusz Spectral properties of the squeeze operator. (English summary) **2005c:81256**
Chu, Shih-I (*with* Telnov, Dmitry A.) Beyond the Floquet theorem: generalized Floquet formalisms and quasienergy methods for atomic and molecular multiphoton processes in intense laser fields. (English summary) **2005b:81233**
Ciornea, Viorel *see* **Enaki, Nicolae**
Daffer, Sonja (*with* Wódkiewicz, Krzysztof; McIver, John K.) Quantum Markov channels for qubits. (English summary) **2005a:81271**
Dantas, Célia M. A. *see* **de Oliveira, Guilherme C. et al., 2005k:81386**
Davidovich, Luiz Decoherence and quantum-state measurement in quantum optics. (English summary) (*see* **2005c:81005**)
Degond, Pierre *see* **Besse, Christophe et al., 2005d:81400** *and* **Bidégaray-Fesquet, Brigitte et al., 2005e:81276**
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Dussel, G. G. *see* **Dukelsky, Jorge et al., 2005h:81447**
Eberly, J. H. *see* **Chan, Kam Wai et al.**
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— The revival-collapse phenomenon in the fluctuations of quadrature field components of the multiphoton Jaynes-Cummings model. (English summary)
— The revival-collapse phenomenon in the higher-order fluctuations of quadrature field components of the multiphoton Jaynes-Cummings model. (English summary)
Enaki, Nicolae (*with* Ciornea, Viorel) The coherent generation of the photon pairs by a stream of excited atoms passing through the cavity. (English summary)
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Fabiano, N. *see* **Sivasubramanian, Somu et al., 2005f:81304**
Fan, Hong Yi[1] (*with* Hu, Hai-peng) Characteristic and Wigner function for number difference and operational phase. (English summary)
— (*with* Lu, Hai-Liang) Thermo Jaynes-Cummings model and its diagonalization. (English summary) **2005h:81448**
— (*with* Hu, Hai-peng; Tang, Xu-bing) Invariant eigenoperators and energy gap for some Hamiltonians describing photonic nonlinear interaction. (English summary)
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— Pure point spectrum for two-level systems in a strong quasi-periodic field. (English summary) **2005m:81352**
Giovannetti, Vittorio (*with* Guha, Saikat; Lloyd, Seth; Maccone, Lorenzo; Shapiro, Jeffrey H.; Yen, Brent J.; Yuen, Horace P.) Classical capacity of free-space optical communication. (English summary) **2005k:81384**
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Horowski, Maciej (*with* Chadzitaskos, Goce; Odzijewicz, Anatol; Tereszkiewicz, Agnieszka) Systems with intensity-dependent conversion integrable by finite orthogonal polynomials. (English summary) **2005c:81257**
— *see also* **Chadzitaskos, Goce et al.**
Hou, B. P. (*with* Wang, Shun Jin; Yu, Wan-Lun; Sun, Weili) Exact solution and Berry phase for the dissipative two-mode optical system. (English summary)
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Li, Jiang Fan[1] (*with* Jiang, Zong-Fu; Xiao, Fu-Liang; Huang, Chun-Jia) A general

solution for the dynamics of a generalized non-degenerate optical parametric down-conversion interaction by virtue of the Lewis-Riesenfeld invariant theory. (English summary) **2005m:81353**

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Lu, Hai-Liang *see* **Fan, Hong Yi[1], 2005h:81448**

Lu, Jing[3] (*with* Zhou, Lan[2]; Kuang, Le-Man) Linear optics implementation for quantum game with two players. (English summary)

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Maioli, Marco *see* **Lodi, Daniele et al., 2005k:81385**

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Man′ko, Vladimir I. *see* **Castaños, Octavio et al., 2005g:81365** *and* **Arkhipov, A. S. et al., 2005h:81445**

Maze, J. (*with* Orszag, Miguel) Perfect transmission of the sub-Poissonian character of a field via continuous-variable teleportation. (English summary)

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Mehlig, B. *see* **Gorin, T. et al.**

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Niu, Wan-Qing (*with* Wang, An Min; You, Hao; Yang, Xiao Dong[1]) All-versus-nothing nonlocality for two photons from different sources. (English summary)

Obada, Abdel-Shafy F. (*with* Hessian, Hosny A.) Entanglement generation and entropy growth due to intrinsic decoherence in the Jaynes-Cummings model. (English summary) **2005e:81278**

— (*with* Abdel-Khalek, S.) New features of the atomic Wehrl entropy and its density in multi-quanta two-level system. (English summary) **2005c:81258**

— *see also* **Abd Al-Kader, G. M.** *and* **Abdalla, M. Sebawe et al.**

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de Oliveira, Guilherme C. (*with* de Almeida, Agnaldo R.; Dantas, Célia M. A.; Moraes, Arthur M.) Nonlinear displaced number states. (English summary) **2005k:81386**

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Roychowdhury, Hema (*with* Wolf, Emil) Coherence effects in the near-field. (English summary) **2005d:81404**

Rybin, Andrei V. (*with* Vadeiko, Ilya P.; Bishop, Alan R.) Driving slow-light solitons by a controlling laser field. (English summary)

Ryzhīĭ, V. I. *see* **Pavlov, Boris S., 2005m:81354**

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Samsonov, Boris F. (*with* Negro, Javier) Darboux transformations of the Jaynes-Cummings Hamiltonian. (English summary) **2005e:81279**

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Schirmer, Sonia G. (*with* Zhang, Tan; Leahy, J. V.) Orbits of quantum states and geometry of Bloch vectors for n-level systems. (English summary) **2005a:81274**

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Simon, Christoph (*with* Poizat, Jean-Philippe) Creating single time-bin-entangled photon pairs. (English summary)

Sivakumar, S. Nonlinear Jaynes-Cummings model of atom-field interaction. (English summary)

Sivasubramanian, Somu (*with* Castellani, Gianluca; Fabiano, N.; Widom, A.; Swain, John; Srivastava, Y. N.; Vitiello, Giuseppe) Quantum limits on pixel resolution from non-commutative photon coordinates. (English summary) **2005f:81304**

Srivastava, Y. N. *see* **Sivasubramanian, Somu et al., 2005f:81304**

Steudel, H. (*with* Zabolotskii, A. A.) Solitons of the reduced Maxwell-Bloch equations for circularly polarized light. (English summary) **2005c:81259**

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Tomaschitz, R. Quantum tachyons. (English summary) **2005k:81387**

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Zoller, P. *see* **Gardiner, C. W., 2005g:81366**

Zwiller, Valéry (*with* Aichele, Thomas; Benson, Oliver) Quantum optics with single quantum dot devices. (English summary) **2005k:81388**

Items with secondary classifications in 81V80

Abdalla, M. Sebawe (*with* Obada, Abdel-Shafy F.) Nonclassical properties for some intermediate states. (English summary) **2005a:81120**

Abdel-Aty, Mahmoud (*with* Obada, Abdel-Shafy F.) Analytic solution for entangled two-qubit in a cavity field. (English summary) **2005h:81083**

Agarwal, G. S. *see* **Biswas, Asoka, 2005d:81035**

Albertini, Francesca (*with* D'Alessandro, Domenico) Control of the evolution of Heisenberg spin systems. (English summary) **2005m:93071**

Ali, Syed Twareque (*with* Engliš, Miroslav; Gazeau, Jean-Pierre) Vector coherent states from Plancherel's theorem, Clifford algebras and matrix domains. (English summary) **2005m:81147**

Amico, Luigi (*with* Hikami, Kazuhiro) Integrable spin-boson interaction in the Tavis-Cummings model from a generic boundary twist. (English summary) **2005k:81111**

Amniat-Talab, M. (*with* Guérin, Stéphane; Jauslin, H. R.) Quantum averaging and resonances: two-level atom in a one-mode quantized field. (English summary) **2005j:81209**

Anastopoulos, Charis (*with* Savvidou, Ntina) The role of phase space geometry in Heisenberg's uncertainty relation. (English summary) **2005a:81121**

Atabek, O. (*with* Lefebvre, Roland; Nguyen-Dang, T. T.) Theory of intense laser-induced molecular dissociation: from simulation to control. (*see* **2005c:81001**)

Balasubramanian, Sunder *see* **Do, Binh et al.**

Batista, Victor S. (*with* Brumer, Paul) Coherent control: principles and semiclassical implementations. (English summary) **2005a:81270**

Beausoleil, R. G. (*with* Munro, William J.; Spiller, T. P.) Applications of coherent population transfer to quantum information processing. (English summary)

Beige, Almut *see* **Lim, Yuan Liang**

Bentosela, François (*with* Duclos, Pierre[1]; Moldoveanu, V.; Nenciu, Gheorghe) The dynamics of one-dimensional Bloch electrons in constant electric fields. (English summary) **2005m:81089**

Berry, M. V. Physics of non-Hermitian degeneracies. (English summary) **2005h:81142**

Bishop, Alan R. *see* **Rapti, Z. et al., 2005f:35289**

Biswas, Asoka (*with* Agarwal, G. S.) Preparation of W, GHZ, and two-qutrit states using bimodal cavities. (English summary) **2005d:81035**

Bloch, Anthony M. (*with* Rojo, Alberto G.) Control of squeezed phonon and spin states. (English summary) (*see* **2005b:93007**)

— (*with* Rojo, Alberto G.) Control of squeezed phonon and spin states. (English summary) **2005k:93097**

Boscain, Ugo (*with* Chambrion, Thomas; Gauthier, Jean Paul) Optimal control on a N-level quantum system. (English summary) **2005d:93038**

Bouwmeester, Dik (*with* Howell, John C.; Lamas-Linares, Antia) Quantum information science using photons. (English summary) (*see* **2005d:81105**)

Bowen, Warwick P. *see* **Lance, Andrew M. et al., 2005d:94178**

Bradley, R. Mark (*with* Deconinck, Bernard; Kutz, J. Nathan) Exact nonstationary solutions to the mean-field equations of motion for two-component Bose-Einstein condensates in periodic potentials. (English summary) **2005i:82043**

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Brumer, Paul *see* **Batista, Victor S., 2005a:81270**

Burgoyne, Bryan (*with* Godbout, Nicolas; Lacroix, Suzanne) Theoretical analysis of nth-order cascaded continuous-wave Raman fiber lasers. I. Model and resolution. (English summary)

— (*with* Godbout, Nicolas; Lacroix, Suzanne) Theoretical analysis of nth-order cascaded continuous-wave Raman fiber lasers. II. Optimization and design rules. (English summary)

Castro-Alvaredo, Olalla (*with* Fring, Andreas) Applications of quantum integrable systems. (English summary) **2005f:81090**

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Cirac, Juan Ignacio Quantum information: entanglement, purification, error correction, and quantum optical implementations. (*see* **2005d:81105**)

Combes, Jean-Michel (*with* Gralak, B.; Tip, A.) Spectral properties of absorptive photonic crystals. (English summary) (*see* **2004j:00029**)

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Damnjanović, M. (*with* Milošević, I.; Vuković, T.; Marinković, T.) Wigner-Eckart theorem in the inductive spaces and applications to optical transitions in nanotubes. (English summary) **2005e:81081**

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De Neve, J. *see* **Struyve, W. et al.**
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Do, Binh (*with* Stohler, Michael L.; Balasubramanian, Sunder; Elliott, Daniel S.; Eash, Christopher; Fischbach, Ephraim; Fischbach, Michael A.; Mills, Arthur; Zwickl, Benjamin) Experimental realization of a quantum quincunx by use of linear optical elements. (English summary)
Dodonov, A. V. (*with* Dodonov, V. V.; Mizrahi, Salomon S.) Separability dynamics of two-mode Gaussian states in parametric conversion and amplification. (English summary) **2005h:81058**
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Fagnola, Franco H-P quantum stochastic differential equations. (English summary) **2005c:81115**
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— (*with* Jiang, Nian-Quan) Three-mode entangled state representation of continuum variables and optical four-wave mixing. (English summary)
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Fischbach, Michael A. *see* **Do, Binh et al.**
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Gavenda, M. (*with* Černoch, A.; Soubusta, J.; Dušek, M.; Filip, R.) Knowledge excess duality and violation of Bell inequalities: theory and experiment. (English summary) **2005m:81027**
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Gerisch, Thomas (*with* Honegger, Reinhard; Rieckers, Alfred) Algebraic quantum theory of the Josephson microwave radiator. (English summary) **2005d:81181**
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Golowich, S. E. (*with* Weinstein, Michael I.) Theory and computation of scattering resonances of photonic microstructures. (English summary) **2005g:78010**
Gough, John Edward Holevo-ordering and the continuous-time limit for open Floquet dynamics. (English summary) **2005f:81126**
Gralak, B. *see* **Combes, Jean-Michel et al., (2004j:00029)**
Guérin, Stéphane *see* **Amniat-Talab, M. et al., 2005j:81209**
Herbut, F. A quantum measure of coherence and incompatibility. (English summary) **2005m:81031**
Hikami, Kazuhiro *see* **Amico, Luigi, 2005k:81111**
Hines, Andrew P. (*with* Dawson, Christopher M.; McKenzie, Ross H.; Milburn, G. J.) Entanglement and bifurcations in Jahn-Teller models. (English summary) **2005d:81052**
Hirokawa, Masao *see* **Dittrich, Jaroslav et al., 2005d:81132**
Honegger, Reinhard (*with* Rieckers, Alfred) Partially classical states of a boson field. (English summary) **2005e:81115**
— *see also* **Gerisch, Thomas et al., 2005d:81181**
Honnouvo, G. *see* **Thirulogasanthar, K. et al., 2005e:81107**
Howell, John C. *see* **Bouwmeester, Dik et al., (2005d:81105)**
Hutchinson, G. D. (*with* Milburn, G. J.) Nonlinear quantum optical computing via measurement. (English summary) **2005e:81043**
Janowicz, Maciej (*with* Orłowski, Arkadiusz) A four-level "Θ-system": exact solvability and effective evolution operators via multiple scales. (English summary)
Jauslin, H. R. *see* **Amniat-Talab, M. et al., 2005j:81209**
Jiang, Nian-Quan *see* **Fan, Hong Yi[1]**
Jochmann, Frank Decay of the polarization field in a Maxwell Bloch system. (English summary) **2005a:35267**
Jolicard, Georges (*with* Killingbeck, John P.) The Bloch wave operator: generalizations and applications. II. The time-dependent case. (English summary) **2005b:81222**
Jung, Christof (*with* Seligman, Thomas H.; Torres, J. M.) Canonically transformed detectors applied to the classical inverse scattering problem. (English summary) **2005i:70035**
Kastrup, H. A. Quantization of the optical phase space $\mathcal{S}^2 = \{\varphi \bmod 2\pi, I > 0\}$ in terms of the group $SO^{\uparrow}(1, 2)$. (English summary) **2005b:81082**
Kevrekidis, Panayotis G. *see* **Rapti, Z. et al., 2005f:35289** *and* **Porter, Mason A. et al.**
Killingbeck, John P. *see* **Jolicard, Georges, 2005b:81222**
Kim, Jaewan[2] *see* **Yi, Hyo Seok et al., 2005m:81158**
Krzyżak, A. *see* **Thirulogasanthar, K. et al., 2005e:81107**
Kutz, J. Nathan *see* **Bradley, R. Mark et al., 2005i:82043**
Kuvshinov, V. I. (*with* Marmysh, V. V.; Shaporov, V. A.) The connection and evolution of squeezing and instability for systems with quadratic Hamiltonians. (Russian. Russian summary) **2005h:81136**
Lacroix, Suzanne *see* **Burgoyne, Bryan et al.**
Lam, Ping Koy *see* **Lance, Andrew M. et al., 2005d:94178**
Lamas-Linares, Antia *see* **Bouwmeester, Dik et al., (2005d:81105)**
Lance, Andrew M. (*with* Symul, Thomas; Bowen, Warwick P.; Tyc, Tomáš; Sanders, Barry C.; Lam, Ping Koy) Continuous variable (2, 3) threshold quantum secret sharing schemes. (English summary) **2005d:94178**
Larson, Jonas Ola Oscar (*with* Garraway, B. M.) Dynamics of a Raman coupled model: entanglement and quantum computation. (English summary) **2005d:81090**
Lebedev, Andreĭ Vladimirovich (*with* Odzijewicz, Anatol) Extensions of C^*-algebras by partial isometries. (Russian. Russian summary) **2005k:46134**
Leblond, Hervé (*with* Malomed, Boris A.; Mihalache, Dumitru) Quasistable two-dimensional solitons with hidden and explicit vorticity in a medium with competing nonlinearities. (English summary) **2005m:78019**
Lefebvre, Roland *see* **Atabek, O. et al., (2005c:81001)**
Li, Shang-Bin (*with* Xu, Jing-Bo) Quantum entanglement and Bell violation of two coupled cavity fields in a dissipative environment. (English summary)
Lim, Yuan Liang (*with* Beige, Almut) Photon polarization entanglement from distant dipole sources. (English summary)
Luo, Yuhui (*with* Chan, Kam Tai) Quantum cryptography with perfect multiphoton entanglement. (English summary) **2005m:94028**
Malomed, Boris A. *see* **Rapti, Z. et al., 2005f:35289; Leblond, Hervé et al., 2005m:78019** *and* **Porter, Mason A. et al.**
Marinković, T. *see* **Damnjanović, M. et al., 2005e:81081**
Marmysh, V. V. *see* **Kuvshinov, V. I. et al., 2005h:81136**
McKenzie, Ross H. *see* **Hines, Andrew P. et al., 2005d:81052**
Mihalache, Dumitru *see* **Leblond, Hervé et al., 2005m:78019**
Milburn, G. J. *see* **Hines, Andrew P. et al., 2005d:81052** *and* **Hutchinson, G. D., 2005e:81043**
Mills, Arthur *see* **Do, Binh et al.**
Milošević, I. *see* **Damnjanović, M. et al., 2005e:81081**
Miranowicz, Adam Decoherence of two maximally entangled qubits in a lossy nonlinear cavity. (English summary) **2005d:81065**
Mizrahi, Salomon S. *see* **Dodonov, A. V. et al., 2005h:81058**
Moldoveanu, V. *see* **Bentosela, François et al., 2005m:81089**
Montesinos, Gaspar D. (*with* Pérez-García, Víctor M.; Torres, Pedro J.) Stabilization of solitons of the multidimensional nonlinear Schrödinger equation: matter-wave breathers. (English summary) **2005a:35253**
Munro, William J. *see* **Beausoleil, R. G. et al.**
Naderi, M. H. (*with* Roknizadeh, R.; Soltanolkotabi, M.) On the coherent states associated with deformed Bogoliubov (p, q)-transformations without first finite Fock states. (English summary) **2005k:81124**
Nemes, M. C. *see* **Fonseca Romero, K. M. et al., 2005a:82061** *and* **2005j:81060**
Nenciu, Gheorghe *see* **Bentosela, François et al., 2005m:81089**
Nguyen Ba An *see* **Yi, Hyo Seok et al., 2005m:81158**
Nguyen-Dang, T. T. *see* **Atabek, O. et al., (2005c:81001)**
Nienhuis, G. *see* **Oemrawsingh, S. S. R. et al., 2005j:78017**
Obada, Abdel-Shafy F. (*with* Darwish, M.; Salah, H. H.) Some non-classical properties of a class of new nonlinear coherent states. (English summary) **2005m:81155**
— *see also* **Abdalla, M. Sebawe, 2005a:81120** *and* **Abdel-Aty, Mahmoud, 2005h:81083**
Odzijewicz, Anatol *see* **Lebedev, Andreĭ Vladimirovich, 2005k:46134**
Oemrawsingh, S. S. R. (*with* Eliel, E. R.; Nienhuis, G.; Woerdman, J. P.) Intrinsic orbital angular momentum of paraxial beams with off-axis imprinted vortices. (English summary) **2005j:78017**
Ordonez, G. *see* **Petrosky, Tomio et al., 2005a:82051**
Orenstien, Meir *see* **Zoubi, Hashem et al., 2005d:82080**
Orłowski, Arkadiusz *see* **Janowicz, Maciej**
Pan, Jian-Wei *see* **Walther, Philip et al., 2005k:81040**
Parthasarathy, Ragavachariar (*with* Sridhar, Raghavendra) Diagonal representation of density matrix using q-coherent states. (English summary) **2005f:82012**
Peixoto de Faria, J. G. *see* **Fonseca Romero, K. M. et al., 2005j:81060**
Pérez-García, Víctor M. *see* **Montesinos, Gaspar D. et al., 2005a:35253**
Petrosky, Tomio (*with* Ordonez, G.; Prigogine, Ilya) Radiation damping in classical systems: the role of nonintegrability. (English summary) **2005a:82051**
Porter, Mason A. (*with* Kevrekidis, Panayotis G.; Malomed, Boris A.) Resonant and non-resonant modulated amplitude waves for binary Bose-Einstein condensates in optical lattices. (English summary)
Prigogine, Ilya *see* **Petrosky, Tomio et al., 2005a:82051**
Rapti, Z. (*with* Trombettoni, Andrea; Kevrekidis, Panayotis G.; Frantzeskakis, Dimitri J.; Malomed, Boris A.; Bishop, Alan R.) Modulational instabilities and domain walls in coupled discrete nonlinear Schrödinger equations. (English summary) **2005f:35289**
Rebolledo, Rolando Limit problems for quantum dynamical semigroups—inspired by scattering theory. (English summary) **2005a:81116**
Recami, Erasmo Superluminal tunnelling through successive barriers: does QM predict infinite group-velocities? (English summary)
Renshaw, Eric *see* **Gillespie, Colin S.**
Resch, K. J. *see* **Walther, Philip et al., 2005k:81040**
Rieckers, Alfred *see* **Gerisch, Thomas et al., 2005d:81181** *and* **Honegger, Reinhard, 2005e:81115**
Rojo, Alberto G. *see* **Bloch, Anthony M., 2005k:93097** *and* **(2005b:93007)**
Roknizadeh, R. (*with* Tavassoly, M. K.) Construction of the dual family of Gazeau-Klauder coherent states via temporally stable nonlinear coherent states. (English summary) **2005m:81156**
— *see also* **Naderi, M. H. et al., 2005k:81124**
Ron, Amiram *see* **Zoubi, Hashem et al., 2005d:82080**

Salah, H. H. *see* **Obada, Abdel-Shafy F. et al., 2005m:81155**
Sanchez-Palencia, Laurent Directed transport of Brownian particles in a double symmetric potential. (English summary) **2005j:82074**
Sanders, Barry C. *see* **Tyc, Tomáš, 2005d:81077** *and* **Lance, Andrew M. et al., 2005d:94178**
Santamato, E. Photon orbital angular momentum: problems and perspectives. (English summary) **2005h:78023**
Savvidou, Ntina *see* **Anastopoulos, Charis, 2005a:81121**
Seligman, Thomas H. *see* **Jung, Christof et al., 2005i:70035**
Shaporov, V. A. *see* **Kuvshinov, V. I. et al., 2005h:81136**
Sohn, Richard (*with* Swanson, Mark S.) Exact coherent state transition elements for the squeezed harmonic oscillator. (English summary) **2005k:81125**
Soltanolkotabi, M. *see* **Naderi, M. H. et al., 2005k:81124**
Sommers, Hans-Jürgen (*with* Życzkowski, Karol) Bures volume of the set of mixed quantum states. (English summary) **2005e:81014**
— *see also* **Życzkowski, Karol, 2005e:81016**
Soubusta, J. *see* **Gavenda, M. et al., 2005m:81027**
Spiller, T. P. *see* **Beausoleil, R. G. et al.**
Sridhar, Raghavendra *see* **Parthasarathy, Ragavachariar, 2005f:82012**
Steinberg, Aephraim M. *see* **Walther, Philip et al., 2005k:81040**
Stohler, Michael L. *see* **Do, Binh et al.**
Struyve, W. (*with* De Baere, W.; De Neve, J.; De Weirdt, S.) On Peres' statement "Opposite momenta lead to opposite directions", decaying systems and optical imaging. (English summary)
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Swanson, Mark S. *see* **Sohn, Richard, 2005k:81125**
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Tavassoly, M. K. *see* **Roknizadeh, R., 2005m:81156**
Thirulogasanthar, K. (*with* Honnouvo, G.; Krzyżak, A.) Multi-matrix vector coherent states. (English summary) **2005e:81107**
Tip, A. *see* **Combes, Jean-Michel et al., (2004j:00029)**
de Toledo Piza, A. F. R. *see* **Fonseca Romero, K. M. et al., 2005j:81060**
Torres, J. M. *see* **Jung, Christof et al., 2005i:70035**
Torres, Pedro J. *see* **Montesinos, Gaspar D. et al., 2005a:35253**
Trombettoni, Andrea *see* **Rapti, Z. et al., 2005f:35289**
Turitsyn, Sergei K. *see* **Derevyanko, Stanislav A. et al.**
Tyc, Tomáš (*with* Sanders, Barry C.) Operational formulation of homodyne detection. (English summary) **2005d:81077**
— *see also* **Lance, Andrew M. et al., 2005d:94178**
Vuković, T. *see* **Damnjanović, M. et al., 2005e:81081**
Walther, Philip (*with* Resch, K. J.; Brukner, Časlav; Steinberg, Aephraim M.; Pan, Jian-Wei; Zeilinger, Anton) Quantum nonlocality obtained from local states by entanglement purification. (English summary) **2005k:81040**
Weinstein, Michael I. *see* **Golowich, S. E., 2005g:78010**
Woerdman, J. P. *see* **Oemrawsingh, S. S. R. et al., 2005j:78017**
Wünsche, Alfred *see* **Fan, Hong Yi[1] et al., 2005m:81152**
Xu, Jing-Bo *see* **Li, Shang-Bin**
Yakushev, Dennis A. *see* **Derevyanko, Stanislav A. et al.**
Yi, Hyo Seok (*with* Nguyen Ba An; Kim, Jaewan[2]) K-dimensional trio coherent states. (English summary) **2005m:81158**
Zeilinger, Anton *see* **Walther, Philip et al., 2005k:81040**
Zoubi, Hashem (*with* Orenstien, Meir; Ron, Amiram) The factorization approximation for the master equation. (English summary) **2005d:82080**
Zwickl, Benjamin *see* **Do, Binh et al.**
Życzkowski, Karol (*with* Sommers, Hans-Jürgen) Hilbert-Schmidt volume of the set of mixed quantum states. (English summary) **2005e:81016**
— *see also* **Sommers, Hans-Jürgen, 2005e:81014**

81V99 None of the above, but in this section

Items with secondary classifications in 81V99

Bounias, Michel (*with* Krasnoholovets, Volodymyr) Scanning the structure of ill-known spaces. II. Principles of construction of physical space. (English summary) **2005a:00010**
Krasnoholovets, Volodymyr *see* **Bounias, Michel, 2005a:00010**
Peletminskiĭ, S. V. (*with* Slyusarenko, Yu. V.) Second quantization method in the presence of bound states of particles. (English summary) **2005j:81100**
Slyusarenko, Yu. V. *see* **Peletminskiĭ, S. V., 2005j:81100**

82–XX Statistical mechanics, structure of matter

82–01 Instructional exposition (textbooks, tutorial papers, etc.)

Mattis, Daniel C. ★ Statistical mechanics made simple. **2005c:82001**
McComb, W. D. ★ Renormalization methods. **2005f:82001**
Rondoni, Lamberto Chaos, information and heat. (Italian. English and Italian summaries)

Items with secondary classifications in 82–01

Barberousse, Anouk The diversity of models in statistical mechanics: views about the structure of scientific theories. (*see* **2005b:00026**)
Bar-Yam, Yaneer ★ Dynamics of complex systems. **2005c:37166**
Boccara, Nino ★ Modeling complex systems. **2005f:37186**
Cabannes, Henri (*with* Gatignol, Renée; Luo, Li-Shi) ★ The discrete Boltzmann equation (theory and applications). **2005c:82076**
Gatignol, Renée *see* **Cabannes, Henri et al., 2005c:82076**
Luo, Li-Shi *see* **Cabannes, Henri et al., 2005c:82076**
Prince, Edward ★ Mathematical techniques in crystallography and materials science. **2005d:82129**

82–02 Research exposition (monographs, survey articles)

den Hollander, Frank (*with* Toninelli, Fabio Lucio) A mystery about to be solved. (English summary)
Ovchinnikov, S. G. (*with* Val′kov, V. V.) ★ Hubbard operators in the theory of strongly correlated electrons. **2005m:82001**
Toninelli, Fabio Lucio *see* **den Hollander, Frank**
Val′kov, V. V. *see* **Ovchinnikov, S. G., 2005m:82001**
Zwanzig, Robert ★ Nonequilibrium statistical mechanics. **2005d:82001**

Items with secondary classifications in 82–02

Adib, Artur B. *see* **Andrade, José S., Jr. et al., (2005g:82001)**
Adler, Stephen L. ★ Quantum theory as an emergent phenomenon. **2005g:81005**
Alicki, Robert (*with* Fannes, Mark) Quantum dynamics, measurement and entropy. (English summary) **2005m:82090**
Allegretto, Walter Drift-diffusion equations and applications. (English summary) (*see* **2005f:82134**)
Almeida, M. P. *see* **Andrade, José S., Jr. et al., (2005g:82001)**
Andrade, José S., Jr. (*with* Almeida, M. P.; Moreira, André A.; Adib, Artur B.; Farias, G. A.) A Hamiltonian approach for Tsallis thermostatistics. (*see* **2005g:82001**)
Anile, Angelo Marcello (*with* Mascali, G.; Romano, V.) Recent developments in hydrodynamical modeling of semiconductors. (English summary) (*see* **2005f:82134**)
Araki, Huzihiro (*with* Moriya, Hajime) Equilibrium statistical mechanics of fermion lattice systems. (English summary) **2005b:82014**
Avron, Joseph E. Colored Hofstadter butterflies. (English summary) (*see* **2005c:81007**)
Bao, Weizhu (*with* Pareschi, Lorenzo; Markowich, Peter A.) Quantum kinetic theory: modelling and numerics for Bose-Einstein condensation. (English summary) (*see* **2005a:82001**)
Bardos, Claude (*with* Golse, François; Gottlieb, Alex D.; Mauser, Norbert J.) On the derivation of nonlinear Schrödinger and Vlasov equations. (English summary) **2005d:82070**
Bartkiewicz, Stanisław J. *see* **Gabryś, Barbara J. et al., 2005b:82089**
Boca, Florin P. (*with* Gologan, Radu N.; Zaharescu, Alexandru) Sur le modèle du gaz de Lorentz périodique. (French summary) [On the periodic Lorentz gas model] **2005b:82074**
Bonetto, F. *see* **Gallavotti, Giovanni et al., 2005h:37001**
Bouchut, François (*with* Golse, François; Pulvirenti, Mario) ★ Kinetic equations and asymptotic theory. **2005d:82102**
Bovier, Anton (*with* Külske, Christof) Coarse-graining techniques for (random) Kac models. (English summary) **2005m:82067**
Calabrese, Pasquale (*with* Gambassi, Andrea) Ageing properties of critical systems. (English summary) **2005m:82082**
Chen, Tian-Quan ★ A non-equilibrium statistical mechanics. **2005c:82053**
Coffey, W. T. (*with* Kalmykov, Yu. P.; Waldron, J. T.) ★ The Langevin equation. **2005b:82065**
Cohen-Tannoudji, Claude Bose-Einstein condensation: an introduction. (English summary) (*see* **2005c:82002**)
Del Moral, Pierre ★ Feynman-Kac formulae. **2005f:60003**
De Masi, Anna Spin systems with long range interactions. **2005e:82032**
Desvillettes, Laurent (*with* Villani, Cédric) Rate of convergence toward the equilibrium in degenerate settings. (English summary) (*see* **2005c:00016**)
— *see also* **Bouchut, François et al., 2005d:82102**
Duras, M. M. Discrete Hessians in study of quantum statistical systems: complex Ginibre ensemble. (English summary) (*see* **2005c:81006**)
Ellis, Richard S. *see* **Touchette, Hugo et al.**
Emch, Gérard G. Interactive modelling. (English summary) **2005h:82001**
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Fannes, Mark *see* **Alicki, Robert, 2005m:82090**
Farias, G. A. *see* **Andrade, José S., Jr. et al., (2005g:82001)**
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Friedrich, Rudolf Group theoretic methods in the theory of pattern formation. (*see* **2005i:82001**)
Gabryś, Barbara J. (*with* Pesz, Karol; Bartkiewicz, Stanisław J.) Brownian motion, molecular motors and ratchets. (English summary) **2005b:82089**
Galkin, V. A. ★ Уравнение Смолуховского. (Russian) [The Smoluchowski equation] **2005i:35001**
Gallavotti, Giovanni (*with* Bonetto, F.; Gentile, Guido) ★ Aspects of ergodic, qualitative and statistical theory of motion. **2005h:37001**
Gambassi, Andrea *see* **Calabrese, Pasquale, 2005m:82082**
Gentile, Guido *see* **Gallavotti, Giovanni et al., 2005h:37001**
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Gopikrishnan, Parameswaran *see* **Stanley, H. Eugene et al., 2005m:91169**
Gorban′, A. N. (*with* Karlin, I. V.; Zinovyev, Andrei Yu.) Constructive methods of invariant manifolds for kinetic problems. (English summary) **2005a:82090**
Gottlieb, Alex D. *see* **Bardos, Claude et al., 2005d:82070**
Guerriero, Gabriele Exact steady solution to a nonlinear integral equation of the particle transport theory. (English summary) (*see* **2005c:00016**)
Hanney, T. *see* **Evans, M. R., 2005m:82099**
Henkel, Malte (*with* Hinrichsen, Haye) The non-equilibrium phase transition of the pair-contact process with diffusion. (English summary)
Hinrichsen, Haye *see* **Henkel, Malte**
den Hollander, Frank Gibbs under stochastic dynamics? (English summary)
Jüngel, Ansgar Asymptotic limits in macroscopic plasma models. (English summary) **2005a:82108**
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Łuczka, Jerzy Non-Markovian stochastic processes: colored noise. (English summary)
Lyra, Marcelo L. Nonextensive entropies and sensitivity to initial conditions of complex systems. (English summary) (*see* **2005g:82001**)
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Metzler, Ralf (*with* Klafter, Joseph) The restaurant at the end of the random walk: recent developments in the description of anomalous transport by fractional dynamics. (English summary)
Mischler, Stéphane *see* **Laurençot, Philippe, 2005d:82123**
Moreira, André A. *see* **Andrade, José S., Jr. et al., (2005g:82001)**
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Müller, Ingo Considerations about the Gibbs paradox. (English summary) (*see* **2005c:00016**)
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Pettersson, Rolf On solutions to the linear Boltzmann equation for granular gases. (English summary)
Plastino, Angel Luis A conceptual framework for the Wheeler program. (English summary)
Plerou, Vasiliki *see* **Stanley, H. Eugene et al., 2005m:91169**
Posch, Harald A. (*with* Forster, Christina) Lyapunov instability of fluids. (English summary) (*see* **2005i:82001**)
Pulvirenti, A. (*with* Toscani, Giuseppe) Probabilistic treatment of some dissipative kinetic models. (English summary) (*see* **2005c:00016**)
Pulvirenti, Mario On the quantum Boltzmann equation. (English summary) (*see* **2005c:81007**)
— *see also* **Bouchut, François et al., 2005d:82102**
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Radons, Günter Disordered dynamical systems. (*see* **2005i:82001**)
Ringhofer, Christian Kinetic and gas-dynamic models for semiconductor transport. (English summary) (*see* **2005f:82134**)
Robledo, Alberto Unifying laws in multidisciplinary power-law phenomena: fixed-point universality and nonextensive entropy. (*see* **2005g:82001**)
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Schilling, Rolf Theories of the structural glass transition. (*see* **2005i:82001**)
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Takács, Jenő ★ Mathematics of hysteretic phenomena. **2005m:82161**
Talagrand, Michel ★ Spin glasses: a challenge for mathematicians. **2005m:82074**
— Mean field models for spin glasses: a first course. **2005b:82045**
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Touchette, Hugo (*with* Ellis, Richard S.; Turkington, Bruce) An introduction to the thermodynamic and macrostate levels of nonequivalent ensembles. (English summary)
(Trowbridge, Bill) *see* **Takács, Jenő, 2005m:82161**
Tsallis, Constantino Nonextensive statistical mechanics: construction and physical interpretation. (*see* **2005g:82001**)
Turkington, Bruce *see* **Touchette, Hugo et al.**
Val′kov, V. V. (*with* Ovchinnikov, S. G.) ★ Квазичастицы в сильно коррелированных системах. (Russian. Russian summary) [Quasiparticles in strongly correlated systems] **2005a:82020**
Villani, Cédric *see* **Desvillettes, Laurent, (2005c:00016)**

Vollmer, Jürgen Chaos, spatial extension, transport, and non-equilibrium thermodynamics. (English summary) **2005a:37016**
Waldron, J. T. *see* **Coffey, W. T. et al., 2005b:82065**
Zaharescu, Alexandru *see* **Boca, Florin P. et al., 2005b:82074**
Zinov′ev, Yu. M. *L*-function and Ising model. (English summary) **2005j:82026**
Zinovyev, Andrei Yu. *see* **Gorban′, A. N. et al., 2005a:82090**
Zurek, Wojciech Hubert Decoherence, einselection, and the quantum origins of the classical. (English summary) **2005b:81021**

82–03 Historical (must also be assigned at least one classification number from Section 01)

(Bachelier, Louis) *see* **Bernstein, Jeremy, 2005m:82002**
Bernstein, Jeremy Bachelier. **2005m:82002**
Darrigol, Olivier The origins of the entropy concept. (*see* **2005c:82002**)
Niss, Martin History of the Lenz-Ising model 1920–1950: from ferromagnetic to cooperative phenomena. (English summary) **2005k:82001**

Items listed otherwise than by author

Biography:
Bachelier, Louis *see* **Bernstein, Jeremy, 2005m:82002**

Items with secondary classifications in 82–03

Andreev, Anton V. The role of physics in the change in the meaning of the concept of "probability". (Russian) (*see* **2005b:01005**)
Dyson, Freeman J. Elliott's world: from square ice to cubic jellium.
Emch, Gérard G. Interactive modelling. (English summary) **2005h:82001**
den Hollander, Frank (*with* Toninelli, Fabio Lucio) A mystery about to be solved. (English summary)
(Kohn, Walter) *see* **Walter Kohn, 2005b:01051**
Lebowitz, Joel L. A laudatio for Elliott Lieb on his receiving the Poincaré medal at the International Congress on Mathematical Physics in Lisbon, July 30, 2003.
(Leontovich, M. A.) *see* **Vdovichenko, N. V., (2005b:01005)**
(Lieb, Elliott H.) *see* **Dyson, Freeman J.; Lebowitz, Joel L.** *and* **Yngvason, Jakob**
(Scheffler, Matthias) *see* **Walter Kohn, 2005b:01051**
Toninelli, Fabio Lucio *see* **den Hollander, Frank**
Vdovichenko, N. V. Reading M. A. Leontovich. (Russian. English and Russian summaries) (*see* **2005b:01005**)
(Weinberger, Peter) *see* **Walter Kohn, 2005b:01051**
Yngvason, Jakob Elliott Lieb and the art of mathematical physics.
Zabusky, Norman J. Fermi-Pasta-Ulam, solitons and the fabric of nonlinear and computational science: history, synergetics, and visiometrics. (English summary) **2005k:37003**

Items listed otherwise than by author

Birthday:
Kohn, Walter ★ Walter Kohn. **2005b:01051**
Walter Kohn ★ Walter Kohn. **2005b:01051**

82–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 82–04

Ahmed, Mahrous Rashad (*with* Gehring, G. A.) The phase diagram of an anisotropic Potts model. (English summary)
Albano, Ezequiel V. Comment on: "Transverse fluctuations in the driven lattice gas" [J. Phys. A **36** (2003), no. 21, L315–L320; MR1985486] by S. Caracciolo, A. Gambassi, M. Gubinelli and A. Pelissetto. (English summary)
— *see also* **Caracciolo, Sergio et al.**
Andrade, José S., Jr. *see* **Soares, Danyel J. B. et al.**
Bagaméry, F. A. *see* **Pleimling, M. et al.**
Baldovin, Fulvio (*with* Moyano, Luis G.; Majtey, Ana P.; Robledo, Alberto; Tsallis, Constantino) Ubiquity of metastable-to-stable crossover in weakly chaotic dynamical systems. (English summary)
Betts, D. D. *see* **Penney, S. J. et al., 2005a:82026**
Blöte, Henk W. J. *see* **Deng, Youjin**
Caracciolo, Sergio (*with* Gambassi, Andrea; Gubinelli, Massimiliano; Pelissetto, Andrea) Reply to: "Comment on: 'Transverse fluctuations in the driven lattice gas' " [J. Phys. A **37** (2004), no. 33, 8189–8191; MR2091946] by E. V. Albano.
— (*with* Gambassi, Andrea; Gubinelli, Massimiliano; Pelissetto, Andrea) Finite-size scaling in the driven lattice gas. (English summary)
— *see also* **Albano, Ezequiel V.**
Cumyn, V. K. *see* **Penney, S. J. et al., 2005a:82026**
Deng, Youjin (*with* Blöte, Henk W. J.) Edge phase transitions of the tricritical Potts model in two dimensions. (English summary)
Donev, Aleksandar Nikola (*with* Torquato, Salvatore; Stillinger, Frank H.) Pair correlation function characteristics of nearly jammed disordered and ordered hard-sphere packings. (English summary) **2005m:82055**
Enss, Tilman (*with* Henkel, Malte; Picone, Alan; Schollwöck, Ulrich) Ageing phenomena without detailed balance: the contact process. (English summary)
Gambassi, Andrea *see* **Caracciolo, Sergio et al.** *and* **Albano, Ezequiel V.**
Gehring, G. A. *see* **Ahmed, Mahrous Rashad**
Giménez, M. C. (*with* Nieto, F.; Ramirez-Pastor, A. J.) Thermal percolation for interacting monomers absorbed on square lattices. (English summary) **2005m:82143**
Gobert, Dominique (*with* Kollath, Corinna; Schollwöck, Ulrich; Schütz, Gunter M.) Real-time dynamics in spin-$\frac{1}{2}$ chains with adaptive time-dependent density matrix renormalization group. (English summary) **2005m:82100**
Gubinelli, Massimiliano *see* **Caracciolo, Sergio et al.** *and* **Albano, Ezequiel V.**
Henkel, Malte *see* **Enss, Tilman et al.** *and* **Ramasco, José J. et al.**
Herrmann, Hans J. *see* **Soares, Danyel J. B. et al.**
Iglói, Ferenc *see* **Pleimling, M. et al.**
Janke, Wolfhard (*with* Schakel, Adriaan M. J.) Geometrical vs. Fortuin-Kasteleyn clusters in the two-dimensional q-state Potts model. (English summary) **2005e:82037**
Janse van Rensburg, E. J. (*with* Rechnitzer, Andrew) Multiple Markov chain Monte Carlo study of adsorbing self-avoiding walks in two and in three dimensions. (English summary)
Jensen, Iwan Low-density series expansions for directed percolation. III. Some two-dimensional lattices. (English summary) **2005e:82047**
Jeżewski, W. Scaling in weighted networks and complex systems. (English summary)
Junier, I. (*with* Kurchan, Jorge) Microscopic realizations of the trap model. (English summary) **2005a:82101**
Kollath, Corinna *see* **Gobert, Dominique et al., 2005m:82100**
Kolomeisky, Anatoly B. *see* **Pronina, Ekaterina**
Kurchan, Jorge *see* **Junier, I., 2005a:82101**
Lebovka, N. I. (*with* Manna, Subhrangshu Sekhar; Tarafdar, S.; Vygornitskii, N. V.) Percolation in deposits for competitive models in $(1 + 1)$-dimensions. (English summary)
Majtey, Ana P. *see* **Baldovin, Fulvio et al.**
Manna, Subhrangshu Sekhar *see* **Lebovka, N. I. et al.**
Moloney, Nicholas R. *see* **Pruessner, Gunnar, 2005b:82039**
Moyano, Luis G. *see* **Baldovin, Fulvio et al.**
Nieto, F. *see* **Giménez, M. C. et al., 2005m:82143**
Okamura, Makoto[1] *see* **Ueno, Kazuto et al., 2005m:82114**
Pelissetto, Andrea *see* **Caracciolo, Sergio et al.** *and* **Albano, Ezequiel V.**
Penney, S. J. (*with* Cumyn, V. K.; Betts, D. D.) A new method for the $S = \frac{1}{2}$ antiferromagnetic Ising model's properties at any temperature and any magnetic field on the infinite square lattice. (English summary) **2005a:82026**
Picone, Alan *see* **Enss, Tilman et al.**
Pleimling, M. (*with* Bagaméry, F. A.; Turban, L.; Iglói, Ferenc) Logarithmic corrections in the two-dimensional Ising model in a random surface field. (English summary)
Pronina, Ekaterina (*with* Kolomeisky, Anatoly B.) Two-channel totally asymmetric simple exclusion processes. (English summary)
Pruessner, Gunnar (*with* Moloney, Nicholas R.) Winding clusters in percolation on the torus and the Möbius strip. (English summary) **2005b:82039**
Ramasco, José J. (*with* Henkel, Malte; Santos, Maria Augusta; da Silva Santos, Constantino A.) Ageing in the critical contact process: a Monte Carlo study. (English summary)
Ramirez-Pastor, A. J. *see* **Giménez, M. C. et al., 2005m:82143**
Rechnitzer, Andrew *see* **Janse van Rensburg, E. J.**
Robledo, Alberto *see* **Baldovin, Fulvio et al.**
Sakagami, Masa-aki (*with* Taruya, Atsushi) Description of quasi-equilibrium states of self-gravitating systems based on non-extensive thermostatistics. (English summary)
— *see also* **Taruya, Atsushi**
Sakaguchi, Hidetsugu *see* **Ueno, Kazuto et al., 2005m:82114**
Santos, Maria Augusta *see* **Ramasco, José J. et al.**
Schakel, Adriaan M. J. *see* **Janke, Wolfhard, 2005e:82037**
Schollwöck, Ulrich *see* **Gobert, Dominique et al., 2005m:82100** *and* **Enss, Tilman et al.**
Schütz, Gunter M. *see* **Gobert, Dominique et al., 2005m:82100**
Shiroishi, Masahiro *see* **Tsuboi, Zengo**
da Silva Santos, Constantino A. *see* **Ramasco, José J. et al.**
Soares, Danyel J. B. (*with* Andrade, José S., Jr.; Herrmann, Hans J.) Precise calculation of the threshold of various directed percolation models on a square lattice. (English summary)
Stillinger, Frank H. *see* **Donev, Aleksandar Nikola et al., 2005m:82055**
Tarafdar, S. *see* **Lebovka, N. I. et al.**
Taruya, Atsushi (*with* Sakagami, Masa-aki) Fokker-Planck study of stellar self-gravitating system away from the thermal equilibrium: connection with non-extensive statistics. (English summary)
— *see also* **Sakagami, Masa-aki**
Torquato, Salvatore *see* **Donev, Aleksandar Nikola et al., 2005m:82055**
Tsallis, Constantino *see* **Baldovin, Fulvio et al.**
Tsuboi, Zengo (*with* Shiroishi, Masahiro) High temperature expansion of the emptiness formation probability for the isotropic Heisenberg chain. (English summary)
Turban, L. *see* **Pleimling, M. et al.**
Ueno, Kazuto (*with* Sakaguchi, Hidetsugu; Okamura, Makoto[1]) Renormalization-group and numerical analysis of a noisy Kuramoto-Sivashinsky equation in $1 + 1$ dimensions. (English summary) **2005m:82114**
Vygornitskii, N. V. *see* **Lebovka, N. I. et al.**
Yamada, Hiroaki[1] Delocalization and sensitivity of quantum wavepacket in coherently perturbed kicked Anderson model. (English summary) **2005j:82040**

82–05 Experimental papers

Items with secondary classifications in 82–05

Graham, Robert *see* **Mieck, B.**
Kaniadakis, Giorgio (*with* Scarfone, A. M.) Lesche stabilty of κ-entropy. (English summary)
Mattis, Daniel C. Design of a nanomagnet. (English summary) **2005c:82097**
Mieck, B. (*with* Graham, Robert) Bose-Einstein condensate of kicked rotators. (English summary)
Scarfone, A. M. *see* **Kaniadakis, Giorgio**

82–06 Proceedings, conferences, collections, etc.

(Arodz, Henryk) *see* **Patterns of symmetry breaking, 2005a:82002**
Barbosa, Marcia *see* **Herrmann, Hans J. et al.**
Barros, Ricardo C. *see* **Spiga, Giampiero et al.**
Curado, Evaldo M. F. *see* **Herrmann, Hans J. et al.**
(Dalibard, Jean) *see* **Seminar: Poincaré, 2003, 2005c:82002**

(Degond, Pierre) *see* **Modeling and computational methods for kinetic equations, 2005a:82001**
(Duplantier, Bertrand) *see* **Seminar: Poincaré, 2003, 2005c:82002**
(Dziarmaga, Jacek) *see* **Patterns of symmetry breaking, 2005a:82002**
van Enter, Aernout C. D. (*with* Redig, Frank; Le Ny, Arnaud) Foreword: [Special issue containing proceedings of the Workshop "Gibbs vs. non-Gibbs" in Statistical Mechanics and Related Fields].
(Gell-Mann, Murray) *see* **Nonextensive entropy—interdisciplinary applications, 2005g:82001**
(Häussler, P.) *see* **Collective dynamics of nonlinear and disordered systems, 2005i:82001**
Herrmann, Hans J. (*with* Barbosa, Marcia; Curado, Evaldo M. F.) Preface [International Workshop on Trends and Perspectives in Extensive and Non-extensive Statistical Mechanics in honour of Constantino Tsallis].
(Just, Wolfram) *see* **Collective dynamics of nonlinear and disordered systems, 2005i:82001**
(Kaniadakis, Giorgio) *see* **News and expectations in thermostatistics**
Lebowitz, Joel L. Preface [In honor of Elliott Lieb's 70th birthday].
Le Ny, Arnaud *see* **van Enter, Aernout C. D. et al.**
(Lieb, Elliott H.) *see* **Lebowitz, Joel L.**
(Lissia, Marcello) *see* **News and expectations in thermostatistics**
(Nelson, David R.) *see* **Statistical mechanics of membranes and surfaces, 2005f:82002**
(Pareschi, Lorenzo) *see* **Modeling and computational methods for kinetic equations, 2005a:82001**
(Piran, Tsvi) *see* **Statistical mechanics of membranes and surfaces, 2005f:82002**
(Radons, Günter) *see* **Collective dynamics of nonlinear and disordered systems, 2005i:82001**
Redig, Frank *see* **van Enter, Aernout C. D. et al.**
(Rivasseau, Vincent) *see* **Seminar: Poincaré, 2003, 2005c:82002**
(Russo, Giovanni) *see* **Modeling and computational methods for kinetic equations, 2005a:82001**
Sanchez, Richard *see* **Spiga, Giampiero et al.**
Spiga, Giampiero (*with* Sanchez, Richard; Barros, Ricardo C.) Preface [Special issue comprised of refereed papers based on presentations at the Eighteenth International Conference on Transport Theory. Part II].
Sugiyama, Masaru Introduction to the topical issue: Nonadditive entropy and nonextensive statistical mechanics.
Swinney, Harry L. (*with* Tsallis, Constantino) Preface: Anomalous distributions, nonlinear dynamics, and nonextensivity.
Tsallis, Constantino *see* **Nonextensive entropy—interdisciplinary applications, 2005g:82001**; **Swinney, Harry L.** *and* **Herrmann, Hans J. et al.**
(Weinberg, Steven) *see* **Statistical mechanics of membranes and surfaces, 2005f:82002**
(Zurek, Wojciech Hubert) *see* **Patterns of symmetry breaking, 2005a:82002**

Items listed otherwise than by author

Birthday:
Lieb, Elliott *see* **Lebowitz, Joel L.**
Collective dynamics of nonlinear and disordered systems ★ Collective dynamics of nonlinear and disordered systems. **2005i:82001**
Cracow ★ Patterns of symmetry breaking. **2005a:82002**
Jerusalem ★ Statistical mechanics of membranes and surfaces. **2005f:82002**
Modeling and computational methods for kinetic equations ★ Modeling and computational methods for kinetic equations. **2005a:82001**
News and expectations in thermostatistics ★ News and expectations in thermostatistics.
Nonextensive entropy—interdisciplinary applications ★ Nonextensive entropy—interdisciplinary applications. **2005g:82001**
Paris ★ Poincaré Seminar 2003. **2005c:82002**
Patterns of symmetry breaking ★ Patterns of symmetry breaking. **2005a:82002**
Seminar:
Poincaré, 2003 ★ Poincaré Seminar 2003. **2005c:82002**
Statistical mechanics of membranes and surfaces ★ Statistical mechanics of membranes and surfaces. **2005f:82002**
Villasimius ★ News and expectations in thermostatistics.

Items with secondary classifications in 82–06

Aizenman, Michael *see* **Douglas, Michael R. et al.**
Allegretto, Walter *see* **Anile, Angelo Marcello et al., 2005f:82134**
Anile, Angelo Marcello (*with* Allegretto, Walter; Ringhofer, Christian) ★ Mathematical problems in semiconductor physics. **2005f:82134**
(Attinger, Sabine) *see* **Multiscale modelling and simulation, 2005d:65007**
(Biler, Piotr) *see* **Nonlocal elliptic and parabolic problems, 2005m:35005**
Combes, Jean-Michel (*with* Ruiz, Jean; Zagrebnov, Valentin A.) Preface [Special issue on mathematical aspects of random systems and statistical mechanics in honour of Leonid Pastur].
(Deuschel, Jean-Dominique) *see* **Interacting stochastic systems, 2005i:00006**
Douglas, Michael R. (*with* Lebowitz, Joel L.; Sarnak, Peter; Aizenman, Michael) Preface: [Dedicated to Freeman Dyson].
(Dyson, Freeman J.) *see* **Douglas, Michael R. et al.**
(Elze, Hans-Thomas) *see* **Decoherence and entropy in complex systems, 2005c:81005**
(Funaki, Tadahisa) *see* **Stochastic analysis on large scale interacting systems, 2005a:60007**
(Gallegati, Mauro) *see* **Complex dynamics of economic interaction, 2005m:91006**
(Greven, Andreas) *see* **Interacting stochastic systems, 2005i:00006**
(Griffeath, David) *see* **New constructions in cellular automata, 2005b:82059**
(Iagolnitzer, Daniel) *see* **Conference: Theoretical Physics, International**
(Karch, Grzegorz) *see* **Nonlocal elliptic and parabolic problems, 2005m:35005**
(Kirman, Alan P.) *see* **Complex dynamics of economic interaction, 2005m:91006**
(Kolmogorov, Andreĭ Nikolaevich) *see* **Kolmogorov legacy in physics, 2005a:00023**
(Koumoutsakos, Petros) *see* **Multiscale modelling and simulation, 2005d:65007**
Lebowitz, Joel L. *see* **Douglas, Michael R. et al.**
(Livi, Roberto) *see* **Kolmogorov legacy in physics, 2005a:00023**
(Marsili, Matteo) *see* **Complex dynamics of economic interaction, 2005m:91006**
(Mascali, G.) *see* **Anile, Angelo Marcello et al., 2005f:82134**
(Monaco, Roberto) *see* **Conference: Waves and Stability in Continuous Media, 12th, "WASCOM 2003", 2005c:00016**
(Moore, Cristopher) *see* **New constructions in cellular automata, 2005b:82059**
(Nadzieja, Tadeusz) *see* **Nonlocal elliptic and parabolic problems, 2005m:35005**
(Osada, Hirofumi) *see* **Stochastic analysis on large scale interacting systems, 2005a:60007**
(Pastur, Leonid Andreevich) *see* **Combes, Jean-Michel et al.**
(Pennisi, Sebastiano) *see* **Conference: Waves and Stability in Continuous Media, 12th, "WASCOM 2003", 2005c:00016**
(Prigogine, Ilya) *see* **Special Issue: In memory of Ilya Prigogine, 2005d:00011**
Ringhofer, Christian *see* **Anile, Angelo Marcello et al., 2005f:82134**
(Rionero, Salvatore) *see* **Conference: Waves and Stability in Continuous Media, 12th, "WASCOM 2003", 2005c:00016**
(Rivasseau, Vincent) *see* **Conference: Theoretical Physics, International**
(Romano, V.) *see* **Anile, Angelo Marcello et al., 2005f:82134**
(Ruggeri, Tommaso) *see* **Conference: Waves and Stability in Continuous Media, 12th, "WASCOM 2003", 2005c:00016**
Ruiz, Jean *see* **Combes, Jean-Michel et al.**
Sarnak, Peter *see* **Douglas, Michael R. et al.**
Uffink, Jos Introduction [Proceedings of the Conference on Philosophical and Foundational Issues in Statistical Physics].
(Vulpiani, Angelo) *see* **Kolmogorov legacy in physics, 2005a:00023**
Zagrebnov, Valentin A. *see* **Combes, Jean-Michel et al.**
(Zinn-Justin, Jean) *see* **Conference: Theoretical Physics, International**

Items listed otherwise than by author

Będlewo ★ Nonlocal elliptic and parabolic problems. **2005m:35005**
Cetraro *see* **Anile, Angelo Marcello et al., 2005f:82134**
Complex dynamics of economic interaction ★ The complex dynamics of economic interaction. **2005m:91006**
Conference:
Theoretical Physics, International ★ International Conference on Theoretical Physics.
Waves and Stability in Continuous Media, 12th, "WASCOM 2003" ★ "WASCOM 2003"—12th Conference on Waves and Stability in Continuous Media. **2005c:00016**
Decoherence and entropy in complex systems ★ Decoherence and entropy in complex systems. **2005c:81005**
Hayama ★ Stochastic analysis on large scale interacting systems. **2005a:60007**
Interacting stochastic systems ★ Interacting stochastic systems. **2005i:00006**
Kolmogorov legacy in physics ★ The Kolmogorov legacy in physics. **2005a:00023**
Kyoto ★ Stochastic analysis on large scale interacting systems. **2005a:60007**
Lecture Notes in Economics and Mathematical Systems ★ The complex dynamics of economic interaction. **2005m:91006**
Lecture Notes in Mathematics *see* **Anile, Angelo Marcello et al., 2005f:82134**
Lecture Notes in Physics ★ The Kolmogorov legacy in physics. **2005a:00023**
— ★ Decoherence and entropy in complex systems. **2005c:81005**
Lugano ★ Multiscale modelling and simulation. **2005d:65007**
Mathematical problems in semiconductor physics *see* **Anile, Angelo Marcello et al., 2005f:82134**
Multiscale modelling and simulation ★ Multiscale modelling and simulation. **2005d:65007**
New constructions in cellular automata ★ New constructions in cellular automata. **2005b:82059**
Nonlocal elliptic and parabolic problems ★ Nonlocal elliptic and parabolic problems. **2005m:35005**
Paris ★ International Conference on Theoretical Physics.
Piombino ★ Decoherence and entropy in complex systems. **2005c:81005**
Santa Fe, NM ★ New constructions in cellular automata. **2005b:82059**
Special Issue:
In memory of Ilya Prigogine ★ Special issue in memory of Ilya Prigogine. **2005d:00011**
Stochastic analysis on large scale interacting systems ★ Stochastic analysis on large scale interacting systems. **2005a:60007**
Trieste ★ The complex dynamics of economic interaction. **2005m:91006**
Villasimius ★ "WASCOM 2003"—12th Conference on Waves and Stability in Continuous Media. **2005c:00016**

82–08 Computational methods

Items with secondary classifications in 82–08

Ben Abdallah, Naoufel (*with* Tang, Shaoqiang) On hybrid quantum-classical transport models. (English summary) **2005e:82117**
Cercignani, Carlo (*with* Lampis, Maria; Lorenzani, Silvia) Plane Poiseuille flow with symmetric and nonsymmetric gas-wall interactions. (English summary) **2005m:76155**
Kamelander, G. *see* **Pohn, E. et al., 2005j:82076**
Lampis, Maria *see* **Cercignani, Carlo et al., 2005m:76155**
Lorenzani, Silvia *see* **Cercignani, Carlo et al., 2005m:76155**
Ohwada, Taku (*with* Xu, Kun) The kinetic scheme for the full-Burnett equations. (English summary) **2005g:82116**
Pohn, E. (*with* Shoucri, M. M.; Kamelander, G.) Eulerian Vlasov codes. (English summary) **2005j:82076**
Shoucri, M. M. *see* **Pohn, E. et al., 2005j:82076**
Tang, Shaoqiang *see* **Ben Abdallah, Naoufel, 2005e:82117**
Xu, Kun *see* **Ohwada, Taku, 2005g:82116**

82Bxx Equilibrium statistical mechanics

Items with secondary classifications in 82Bxx

Mattis, Daniel C. ★ Statistical mechanics made simple. **2005c:82001**

82B03 Foundations

Abe, Sumiyoshi Tsallis entropy: how unique? (English summary) **2005b:82001**

— (*with* Rajagopal, A. K.) The second law in nonextensive quantum thermostatistics for small systems. (English summary) **2005c:82003**
Acharya, Raghunath (*with* Swamy, P. Narayana) On an interpolating statistics from general principles. (English summary)
Arimitsu, Toshihico *see* **Jizba, Petr, 2005e:82002**
Barberousse, Anouk The diversity of models in statistical mechanics: views about the structure of scientific theories. (*see* **2005b:00026**)
Bashkirov, A. G. On maximum entropy principle, superstatistics, power-law distribution and Renyi parameter. (English summary) **2005e:82001**
Beck, Christian Superstatistics: theory and applications. (English summary) **2005b:82002**
Borges, Ernesto P. A possible deformed algebra and calculus inspired in nonextensive thermostatistics. (English summary) **2005f:82003**
Boyer, Timothy H. Blackbody radiation, conformal symmetry, and the mismatch between classical mechanics and electromagnetism. (English summary) **2005i:82002**
Brigatti, E. *see* **Tsallis, Constantino, 2005c:82006**
Canessa, Enrique Possible force-entropy correlation. (English summary) **2005d:82002**
Carati, A. (*with* Galgani, Luigi; Giorgilli, Antonio) The Fermi-Pasta-Ulam problem as a challenge for the foundations of physics. (English summary)
Costa, Jose A. *see* **Vignat, Christophe et al., 2005c:82008**
Devereux, Michael A modified Szilard's engine: measurement, information, and Maxwell's demon. (English summary) **2005i:82003**
Dover, Yaniv A short account of a connection of power laws to the information entropy. (English summary) **2005a:82003**
Du, Jiulin Jeans' criterion in nonextensive statistical mechanics. (English summary) **2005a:82004**
Edwards, S. F. New kinds of entropy. (English summary) **2005d:82003**
Emch, Gérard G. Interactive modelling. (English summary) **2005h:82001**
Falcioni, Massimo (*with* Loreto, Vittorio; Vulpiani, Angelo) Kolmogorov's legacy about entropy, chaos, and complexity. (English summary) **2005b:82003**
Ferri, G. L. (*with* Martínez, Sandra R.; Plastino, Angel Luis) Equivalence of the four versions of Tsallis's statistics. (English summary) **2005m:82003**
— (*with* Martínez, Sandra R.; Plastino, Angel Luis) The role of constraints in Tsallis' nonextensive treatment revisited. (English summary) **2005j:82001**
Friedland, Shmuel (*with* Peled, Uri N.) Computation of entropy in statistical mechanics and information theory. (English summary) **2005k:82002**
Galgani, Luigi *see* **Carati, A. et al.**
Giorgilli, Antonio *see* **Carati, A. et al.**
Hero, A. O., III *see* **Vignat, Christophe et al., 2005c:82008**
Jizba, Petr (*with* Arimitsu, Toshihico) Observability of Rényi's entropy. (English summary) **2005e:82002**
Johal, Ramandeep S. (*with* Tirnakli, Ugur) Tsallis versus Renyi entropic form for systems with q-exponential behaviour: the case of dissipative maps. (English summary) **2005a:82005**
(Kolmogorov, Andreĭ Nikolaevich) *see* **Falcioni, Massimo et al., 2005b:82003**
Lamberti, Pedro W. *see* **Majtey, Ana P. et al., 2005g:82002**
Le Méhauté, Alain *see* **Nivanen, L. et al., 2005c:82005**
Lenzi, E. K. *see* **Mendes, Renio S. et al., 2005f:82004**
Loewer, Barry David Lewis's Humean theory of objective chance. (English summary)
Lopes, C. A. *see* **Mendes, Renio S. et al., 2005f:82004**
Loreto, Vittorio *see* **Falcioni, Massimo et al., 2005b:82003**
Majtey, Ana P. (*with* Lamberti, Pedro W.; Plastino, Angel Luis) A monoparametric family of metrics for statistical mechanics. (English summary) **2005g:82002**
Malacarne, L. C. *see* **Mendes, Renio S. et al., 2005f:82004**
Martínez, Sandra R. *see* **Ferri, G. L. et al., 2005j:82001** *and* **2005m:82003**
Mendes, Renio S. (*with* Lopes, C. A.; Lenzi, E. K.; Malacarne, L. C.) Variational methods in nonextensive Tsallis statistics: a comparative study. (English summary) **2005f:82004**
Miller, H. G. *see* **Plastino, A. R. et al.**
Montemurro, Marcelo A. *see* **Zanette, Damián H., 2005d:82006**
Naudts, Jan Generalized thermostatistics based on deformed exponential and logarithmic functions. (English summary) **2005c:82004**
Nivanen, L. (*with* Le Méhauté, Alain; Wang, Qiuping-A.) Generalized algebra within a nonextensive statistics. (English summary) **2005c:82005**
Niven, Robert K. The constrained entropy and cross-entropy functions. (English summary) **2005a:82006**
Peled, Uri N. *see* **Friedland, Shmuel, 2005k:82002**
Pennini, F. (*with* Plastino, Angel Luis) Power-law distributions and Fisher's information measure. (English summary) **2005a:82007**
— (*with* Plastino, Angel Luis) Escort Husimi distributions, Fisher information and nonextensivity. (English summary) **2005e:82003**
Plastino, A. R. (*with* Miller, H. G.; Plastino, Angel Luis) General thermostatistical formalisms based on parameterized entropic measures. (English summary)
Plastino, Angel Luis *see* **Pennini, F., 2005a:82007**; **2005e:82003**; **Majtey, Ana P. et al., 2005g:82002**; **Ferri, G. L. et al., 2005j:82001**; **2005m:82003** *and* **Plastino, A. R. et al.**
Rajagopal, A. K. Heat and entropy in nonextensive thermodynamics. (English summary) **2005b:82004**
— *see also* **Abe, Sumiyoshi, 2005c:82003**
Sattin, F. Superstatistics from a different perspective. (English summary) **2005d:82004**
Scarfone, A. M. *see* **Wada, Tatsuaki, 2005h:82002**
Swamy, P. Narayana *see* **Acharya, Raghunath**
Tirnakli, Ugur *see* **Johal, Ramandeep S., 2005a:82005**
Tsallis, Constantino Nonextensive statistical mechanics: construction and physical interpretation. (*see* **2005g:82001**)
— (*with* Brigatti, E.) Nonextensive statistical mechanics: a brief introduction. (English summary) **2005c:82006**
— Dynamical scenario for nonextensive statistical mechanics. (English summary) **2005c:82007**
— *see also* **Tsekouras, G. A., 2005m:82004**
Tsekouras, G. A. (*with* Tsallis, Constantino) Generalized entropy arising from a distribution of q indices. (English summary) **2005m:82004**
Uffink, Jos Introduction [Proceedings of the Conference on Philosophical and Foundational Issues in Statistical Physics].
Vignat, Christophe (*with* Hero, A. O., III; Costa, Jose A.) About closedness by convolution of the Tsallis maximizers. (English summary) **2005c:82008**
Vulpiani, Angelo *see* **Falcioni, Massimo et al., 2005b:82003**
Wada, Tatsuaki Thermodynamic stabilities of the generalized Boltzmann entropies. (English summary) **2005d:82005**
— (*with* Scarfone, A. M.) Connections between Tsallis' formalisms employing the standard linear average energy and ones employing the normalized q-average energy. (English summary) **2005h:82002**
Wang, Qiuping-A. Extensive generalization of statistical mechanics based on incomplete information theory. (English summary) **2005a:82008**
— *see also* **Nivanen, L. et al., 2005c:82005**
Wetterich, Christof Quantum correlations in classical statistics. (English summary) (*see* **2005c:81005**)
Winsberg, Eric Laws and statistical mechanics. (English summary)
Yamano, Takuya Does the Lesche condition for stability validate generalized entropies? (English summary) **2005g:82003**
Zanette, Damián H. (*with* Montemurro, Marcelo A.) A note on non-thermodynamical applications of non-extensive statistics. (English summary) **2005d:82006**

Items with secondary classifications in 82B03

Andrade, Roberto F. S. *see* **Borges, Ernesto P. et al., 2005d:94024**
Andreev, Anton V. The role of physics in the change in the meaning of the concept of "probability". (Russian) (*see* **2005b:01005**)
Arimitsu, Toshihico *see* **Jizba, Petr, 2005d:94054**
Ay, Nihat *see* **Erb, Ionas, 2005m:82018**
Balian, Roger Entropy, a protean concept. (English summary) (*see* **2005c:82002**)
Borges, Ernesto P. (*with* Tsallis, Constantino; Miranda, José G. V.; Andrade, Roberto F. S.) Mother wavelet functions generalized through q-exponentials. (English summary) **2005d:94024**
Celletti, Alessandra (*with* Froeschlé, Claude; Lega, Elena) From regular to chaotic motions through the work of Kolmogorov. (English summary) **2005b:37129**
Costantini, Domenico (*with* Garibaldi, Ubaldo) The Ehrenfest fleas: from model to theory. (English summary) **2005d:60005**
(Dalibard, Jean) *see* **Seminar: Poincaré, 2003, 2005c:82002**
Darrigol, Olivier The origins of the entropy concept. (*see* **2005c:82002**)
(Duplantier, Bertrand) *see* **Seminar: Poincaré, 2003, 2005c:82002**
Erb, Ionas (*with* Ay, Nihat) Multi-information in the thermodynamic limit. (English summary) **2005m:82018**
Froeschlé, Claude *see* **Celletti, Alessandra et al., 2005b:37129**
Garibaldi, Ubaldo *see* **Costantini, Domenico, 2005d:60005**
Gühne, Otfried (*with* Lewenstein, Maciej) Entropic uncertainty relations and entanglement. (English summary) **2005c:81025**
Jaganathan, Ramaswamy (*with* Sinha, Sudeshna) A q-deformed nonlinear map. (English summary) **2005m:81160**
Jizba, Petr (*with* Arimitsu, Toshihico) Generalized statistics: yet another generalization. (English summary) **2005d:94054**
Kaniadakis, Giorgio (*with* Lissia, Marcello; Scarfone, A. M.) Deformed logarithms and entropies. (English summary) **2005e:94048**
— *see also* **News and expectations in thermostatistics**
(Kolmogorov, Andreĭ Nikolaevich) *see* **Celletti, Alessandra et al., 2005b:37129**
Korepin, Vladimir (*with* Terilla, John) Thermodynamic interpretation of the quantum error correcting criterion. (English summary) **2005a:94039**
Lega, Elena *see* **Celletti, Alessandra et al., 2005b:37129**
Lewenstein, Maciej *see* **Gühne, Otfried, 2005c:81025**
Lissia, Marcello *see* **Kaniadakis, Giorgio et al., 2005e:94048** *and* **News and expectations in thermostatistics**
Livi, Roberto (*with* Ruffo, Stefano; Shepelyanskiĭ, D. L.) Kolmogorov pathways from integrability to chaos and beyond. (English summary) **2005b:37132**
Masi, Marco A step beyond Tsallis and Rényi entropies. (English summary) **2005m:94015**
Miranda, José G. V. *see* **Borges, Ernesto P. et al., 2005d:94024**
Naudts, Jan Generalized thermostatistics and mean-field theory. (English summary) **2005a:82010**
— Continuity of a class of entropies and relative entropies. (English summary) **2005h:94024**
— Escort density operators and generalized quantum information measures. (English summary) **2005m:82011**
Pikovskiĭ, A. S. *see* **Zaks, Mikhail A., 2005b:37057**
(Rivasseau, Vincent) *see* **Seminar: Poincaré, 2003, 2005c:82002**
Rondoni, Lamberto Chaos, information and heat. (Italian. English and Italian summaries)
Ruffo, Stefano *see* **Livi, Roberto et al., 2005b:37132**
Scarfone, A. M. *see* **Kaniadakis, Giorgio et al., 2005e:94048**
Shepelyanskiĭ, D. L. *see* **Livi, Roberto et al., 2005b:37132**
Sinha, Sudeshna *see* **Jaganathan, Ramaswamy, 2005m:81160**
Terilla, John *see* **Korepin, Vladimir, 2005a:94039**
Topsøe, Flemming Entropy and equilibrium via games of complexity. (English summary) **2005e:94053**
Tsallis, Constantino *see* **Borges, Ernesto P. et al., 2005d:94024**
Zaks, Mikhail A. (*with* Pikovskiĭ, A. S.) Dynamics at the border of chaos and order. (English summary) **2005b:37057**
Zaslavsky, G. M. Long way from the FPU-problem to chaos. (English summary) **2005k:37175**

Items listed otherwise than by author

News and expectations in thermostatistics ★ News and expectations in thermostatistics.
Paris ★ Poincaré Seminar 2003. **2005c:82002**
Seminar:
Poincaré, 2003 ★ Poincaré Seminar 2003. **2005c:82002**
Villasimius ★ News and expectations in thermostatistics.

82B05 Classical equilibrium statistical mechanics (general)

Anantharaman, Nalini On the zero-temperature or vanishing viscosity limit for certain Markov processes arising from Lagrangian dynamics. (English summary) **2005i:82004**

Bach, Volker (*with* Møller, Jacob Schach) Correlation at low temperature. I. Exponential decay. (English summary) **2005a:82009**

Barkai, Eli Stable equilibrium based on Lévy statistics: a linear Boltzmann equation approach. (English summary) **2005f:82005**

Batchelor, M. T. (*with* Guan, X. W.; McGuire, James B.) Ground state of 1D bosons with delta interaction: link to the BCS model. (English summary) **2005f:82006**

Bianchi, Alessandra (*with* Contucci, Pierluigi; Giardinà, Cristian) Thermodynamic limit for mean-field spin models. (English summary) **2005d:82007**

Brydges, David C. (*with* Guadagni, G.; Mitter, P. K.) Finite range decomposition of Gaussian processes. (English summary) **2005i:82005**

Cai, Ling-Cang *see* **Sun, Jiu-Xun et al., 2005e:82006**

Cammarota, Camillo An inequality for the Gibbs mean number of clusters. (English summary) **2005m:82005**

Campa, Alessandro (*with* Giansanti, Andrea) Canonical and microcanonical partition functions in long-range systems with order parameter space of arbitrary dimension. (English summary) **2005g:82004**

Cao, Zhoujian (*with* Li, Haihong[1]; Munakata, Toyonori; He, Dahai; Hu, Gang[1]) Exact statistics of three-hard-disk system in two-dimensional space. (English summary) **2005c:82009**

Caracciolo, Sergio (*with* Sportiello, Andrea) General duality for abelian-group-valued statistical-mechanics models. (English summary) **2005i:82006**

Cervera Montesinos, Javier *see* **García-Morales, V. et al., 2005d:82008**

Collet, Jean-François A new characterization of Gibbs measures. (English summary) **2005e:82004**

Contucci, Pierluigi *see* **Bianchi, Alessandra et al., 2005d:82007**

Creutz, Michael Playing with sandpiles. (English summary)

Dachian, S. (*with* Nakhapetyan, B. S.) Description of specifications by means of probability distributions in small volumes under condition of very weak positivity. (English summary) **2005j:82002**

van Enter, Aernout C. D. (*with* Verbitskiĭ, E. A.) On the variational principle for generalized Gibbs measures. (English summary) **2005h:82003**

Fernández, Roberto (*with* Maillard, Grégory) Chains with complete connections: general theory, uniqueness, loss of memory and mixing properties. (English summary) **2005k:82003**

Friedli, Sacha (*with* Pfister, Charles E.) Non-analyticity and the van der Waals limit. (English summary) **2005b:82005**

García-Morales, V. (*with* Cervera Montesinos, Javier; Pellicer, J.) Coupling theory for counterion distributions based in Tsallis statistics. (English summary) **2005d:82008**

Giansanti, Andrea *see* **Campa, Alessandro, 2005g:82004**

Giardinà, Cristian *see* **Bianchi, Alessandra et al., 2005d:82007**

Grill, Karl (*with* Tutschka, Christian) One-dimensional falling bodies. (English summary) **2005j:82003**

Guadagni, G. *see* **Brydges, David C. et al., 2005i:82005**

Guan, X. W. *see* **Batchelor, M. T. et al., 2005f:82006**

He, Dahai *see* **Cao, Zhoujian et al., 2005c:82009**

Homma, Makoto (*with* Itoi, Chigaku) Ferromagnetic domain wall and spiral ground states in one-dimensional deformed flat-band Hubbard model. (English summary) **2005h:82004**

Hu, Gang[1] *see* **Cao, Zhoujian et al., 2005c:82009**

Israel, R. B. Some generic results in mathematical physics. (English summary) **2005g:82005**

Itoi, Chigaku *see* **Homma, Makoto, 2005h:82004**

Jing, Fu-Qian *see* **Sun, Jiu-Xun et al., 2005e:82006**

Kozlov, Valeriĭ V. Statistical equilibrium in the sense of Gibbs and Poincaré in systems with slowly varying parameters. (Russian) **2005i:82007**

Kühn, Reimer Gibbs vs. non-Gibbs in the equilibrium ensemble approach to disordered systems. (English summary)

Leonel, Edson D. (*with* McClintock, P. V. E.) A crisis in the dissipative Fermi accelerator model. (English summary)

Li, Haihong[1] *see* **Cao, Zhoujian et al., 2005c:82009**

Maillard, Grégory *see* **Fernández, Roberto, 2005k:82003**

Malyshev, D. V. *see* **Malyshev, P. V., 2005j:82004**

Malyshev, P. V. (*with* Malyshev, D. V.) On locally perturbed equilibrium distribution functions. (Russian. English and Ukrainian summaries) **2005j:82004**

McClintock, P. V. E. *see* **Leonel, Edson D.**

McGuire, James B. *see* **Batchelor, M. T. et al., 2005f:82006**

Mitter, P. K. *see* **Brydges, David C. et al., 2005i:82005**

Møller, Jacob Schach *see* **Bach, Volker, 2005a:82009**

Moustakidis, Ch. C. Correlation effects on the static structure factor of a Bose gas. (English summary) **2005e:82005**

Munakata, Toyonori *see* **Cao, Zhoujian et al., 2005c:82009**

Nakhapetyan, B. S. *see* **Dachian, S., 2005j:82002**

Naudts, Jan (*with* Van der Straeten, Erik) The grand canonical ensemble in generalized thermostatistics. (English summary) **2005h:82005**

— Generalized thermostatistics and mean-field theory. (English summary) **2005a:82010**

Parvan, A. S. An algebraic method for the exact solution of the partition function for the canonical ensemble in nuclear multifragmentation. (Russian. Russian summary) **2005g:82006**

Pellicer, J. *see* **García-Morales, V. et al., 2005d:82008**

Petrina, Dmitro Yakovich States of infinite equilibrium classical systems. (Ukrainian. English and Ukrainian summaries) **2005b:82006**

Pfister, Charles E. *see* **Friedli, Sacha, 2005b:82005**

Radin, Charles Existence of ground state configurations. (English summary) **2005k:82004**

Rohrmann, René D. A new statistical mechanical formalism for gases. (English summary) **2005m:82006**

Shchepanyuk, G. V. On the property of the decay of correlations for the totality of quantities that admit cluster expansions. (Ukrainian. English summary) **2005i:82008**

— Improved estimates for the strong mixing coefficient for spatially separated events for limit Gibbs measures corresponding to the equilibrium states of dilute continuous systems of classical statistical mechanics with stable exponentially decreasing pairwise interaction. (Ukrainian. English summary) **2005i:82009**

Sportiello, Andrea *see* **Caracciolo, Sergio, 2005i:82006**

Sun, Jiu-Xun (*with* Cai, Ling-Cang; Wu, Qiang; Jing, Fu-Qian) Three semi-empirical analytic expressions for the radial distribution function of hard spheres. (English summary) **2005e:82006**

Téllez, Gabriel *see* **Torres, Aldemar, 2005i:82010**

Torres, Aldemar (*with* Téllez, Gabriel) General considerations on the finite-size corrections for Coulomb systems in the Debye-Hückel regime. (English summary) **2005i:82010**

Tutschka, Christian *see* **Grill, Karl, 2005j:82003**

Ueltschi, Daniel Cluster expansions and correlation functions. (English and Russian summaries) **2005i:82011**

Van der Straeten, Erik *see* **Naudts, Jan, 2005h:82005**

Verbitskiĭ, E. A. *see* **van Enter, Aernout C. D., 2005h:82003**

Wolf, Carl Anton "Casimir-like" contribution to the spectral energy density of photons due to Tsallis statistics. (English summary) (*see* **2005i:00015**)

Wu, Li Ming[1] Estimate of spectral gap for continuous gas. (English and French summaries) **2005e:82007**

Wu, Qiang *see* **Sun, Jiu-Xun et al., 2005e:82006**

Items with secondary classifications in 82B05

Abdalla, M. C. B. (*with* Gadelha, A. L.; Nedel, Daniel L.) Closed string thermal torus from thermo field dynamics. (English summary) **2005j:81124**

Antonopoulos, Ch. *see* **Skokos, Ch. et al., 2005b:37140**

Bach, Volker (*with* Møller, Jacob Schach) Correlation at low temperature. II. Asymptotics. (English summary) **2005i:82017**

Bahri, Abbas Recent progress in conformal geometry (with an emphasis on the use of configuration spaces). **2005c:53038**

Bambusi, D. *see* **Ponno, A., 2005k:37160**

Benettin, Giancarlo Time scale for energy equipartition in a two-dimensional FPU model. (English summary) **2005k:82045**

Berger, Arno (*with* Bunimovich, Leonid A.; Hill, Theodore P.) One-dimensional dynamical systems and Benford's law. (English summary) **2005m:37017**

Betz, Volker (*with* Spohn, Herbert) A central limit theorem for Gibbs measures relative to Brownian motion. (English summary) **2005k:60260**

Botten, L. C. *see* **McPhedran, R. C. et al., 2005e:11100**

Bountis, Tassos *see* **Skokos, Ch. et al., 2005b:37140**

Bovier, Anton (*with* Merola, I.; Presutti, E.; Zahradník, M.) On the Gibbs phase rule in the Pirogov-Sinai regime. (English summary) **2005c:82031**

Bunimovich, Leonid A. *see* **Berger, Arno et al., 2005m:37017**

Cancrini, Nicoletta (*with* Tremoulet, Christel) Comparison of finite volume canonical and grand canonical Gibbs measures: the continuous case. (English summary) **2005h:82028**

Caputo, Pietro Spectral gap inequalities in product spaces with conservation laws. (English summary) **2005h:60293**

Chang, Nai-Heng (*with* Pashaev, O. K.) The Cauchy problem for the planar spin-liquid model. (English summary) **2005k:35371**

Chen, Zeqian Quantum theory for the binomial model in finance theory. (English summary) **2005g:91097**

Contucci, Pierluigi (*with* Graffi, Sandro) On the surface pressure for the Edwards-Anderson model. (English summary) **2005f:82046**

Decoster, Alain Variational principles and thermodynamical perturbations. (English summary) **2005g:82009**

Fernández, Roberto (*with* Maillard, Grégory) Chains with complete connections and one-dimensional Gibbs measures. (English summary) **2005a:60047**

Flach, Sergej (*with* Gorbach, Andrey V.) Discrete breathers in Fermi-Pasta-Ulam lattices. (English summary)

Frieden, B. Roy ★ Science from Fisher information. **2005f:81048**

Gadelha, A. L. *see* **Abdalla, M. C. B. et al., 2005j:81124**

Gorbach, Andrey V. *see* **Flach, Sergej**

Graffi, Sandro *see* **Contucci, Pierluigi, 2005f:82046**

Grönqvist, Johan (*with* Guhr, Thomas; Kohler, Heiner) The k-point random matrix kernels obtained from one-point supermatrix models. (English summary) **2005m:82058**

Guhr, Thomas *see* **Grönqvist, Johan et al., 2005m:82058**

Hill, Theodore P. *see* **Berger, Arno et al., 2005m:37017**

Hislop, Peter D. (*with* Klopp, Frédéric) The integrated density of states for some random operators with nonsign definite potentials. (English summary) **2005a:82045**

Iooss, Gérard (*with* James, Guillaume) Localized waves in nonlinear oscillator chains. (English summary) **2005m:37179**

James, Guillaume *see* **Iooss, Gérard, 2005m:37179**

Klopp, Frédéric *see* **Hislop, Peter D., 2005a:82045**

Kohler, Heiner *see* **Grönqvist, Johan et al., 2005m:82058**

Laliena, Victor Comment on: "The cluster expansion for the self-gravitating gas and the thermodynamic limit" [Nuclear Phys. B **711** (2005), no. 3, 604–620; MR2130058 (2005k:82024)] by H. J. de Vega and N. G. Sánchez.

Leboeuf, P. Periodic orbit spectrum in terms of Ruelle-Pollicott resonances. (English summary) **2005g:37120**

Maillard, Grégory *see* **Fernández, Roberto, 2005a:60047**

Martinelli, Fabio Relaxation times of Markov chains in statistical mechanics and combinatorial structures. (English summary) **2005b:60260**

McPhedran, R. C. (*with* Smith, G. H.; Nicorovici, N. A.; Botten, L. C.) Distributive and analytic properties of lattice sums. (English summary) **2005e:11100**

Merola, I. *see* **Bovier, Anton et al., 2005c:82031**

Møller, Jacob Schach *see* **Bach, Volker, 2005i:82017**

Nedel, Daniel L. *see* **Abdalla, M. C. B. et al., 2005j:81124**

Nicorovici, N. A. *see* **McPhedran, R. C. et al., 2005e:11100**

Nobre, Fernando D. (*with* de Souza, André M. C.) Statistics of the eigenvalues of Tsallis matrices. (English summary) **2005e:82045**

Pashaev, O. K. *see* **Chang, Nai-Heng**, **2005k:35371**
Ponno, A. (*with* Bambusi, D.) Korteweg-de Vries equation and energy sharing in Fermi-Pasta-Ulam. (English summary) **2005k:37160**
Presutti, E. *see* **Bovier, Anton et al.**, **2005c:82031**
Rozikov, Utkir A. On q-component models on Cayley tree: contour method. (English summary) **2005m:82029**
Sanchez, Norma G. *see* **de Vega, H. J.**, **2005k:82024** *and* **Laliena, Victor**
Shirai, Tomoyuki (*with* Takahashi, Yoichiro) Random point fields associated with fermion, boson and other statistics. (English summary) (*see* **2005a:60007**)
Skokos, Ch. (*with* Antonopoulos, Ch.; Bountis, Tassos; Vrahatis, M. N.) Detecting order and chaos in Hamiltonian systems by the SALI method. (English summary) **2005b:37140**
Smith, G. H. *see* **McPhedran, R. C. et al.**, **2005e:11100**
de Souza, André M. C. *see* **Nobre, Fernando D.**, **2005e:82045**
Spohn, Herbert *see* **Betz, Volker**, **2005k:60260**
Takahashi, Yoichiro *see* **Shirai, Tomoyuki**, (**2005a:60007**)
Tarasov, V. E. Stationary solutions of Liouville equations for non-Hamiltonian systems. (English summary) **2005j:70044**
Téllez, Gabriel *see* **Torres, Aldemar**, **2005k:82043**
Torres, Aldemar (*with* Téllez, Gabriel) Finite-size corrections for Coulomb systems in the Debye-Hückel regime. (English summary) **2005k:82043**
Tremoulet, Christel *see* **Cancrini, Nicoletta**, **2005h:82028**
de Vega, H. J. (*with* Sanchez, Norma G.) The cluster expansion for the self-gravitating gas and the thermodynamic limit. (English summary) **2005k:82024**
— *see also* **Laliena, Victor**
Vrahatis, M. N. *see* **Skokos, Ch. et al.**, **2005b:37140**
Zahradník, M. *see* **Bovier, Anton et al.**, **2005c:82031**

82B10 Quantum equilibrium statistical mechanics (general)

Adams, Stefan (*with* Bru, Jean-Bernard) Exact solution of the AVZ-Hamiltonian in the grand-canonical ensemble. (English summary) **2005g:82007**
Adamska, L. V. (*with* Gavrilik, Alexandre M.) Multi-particle correlations in qp-Bose gas model. (English summary) **2005a:82011**
Al′beverio, S. (*with* Kondrat′ev, Yu. G.; Pasurek, Tatiana; Röckner, Michael) Euclidean Gibbs measures on loop lattices: existence and a priori estimates. (English summary) **2005b:82007**
— (*with* Kondrat′ev, Yu. G.; Pasurek, Tatiana; Röckner, Michael) Euclidean Gibbs measures of quantum crystals: existence, uniqueness and a priori estimates. (English summary) **2005j:82005**
Algin, Abdullah (*with* Arik, Metin) Quantum group invariant fermionic gases: $GL_{p,q}(2)$ and $SU_{p/q}(2)$ invariances. (English summary) **2005a:82012**
Andersen, Jens O. Theory of the weakly interacting Bose gas. (English summary) **2005j:82006**
Araki, Huzihiro (*with* Moriya, Hajime) Local thermodynamical stability of fermion lattice systems. (English summary) **2005a:82013**
— Conditional expectations relative to a product state and the corresponding standard potentials. (English summary) **2005f:82007**
Arik, Metin *see* **Algin, Abdullah**, **2005a:82012**
Arimitsu, Toshihico *see* **Jizba, Petr**, **2005g:82012**
Avron, Joseph E. Colored Hofstadter butterflies. (English summary) (*see* **2005c:81007**)
Barreto, Stephen Dias (*with* Fidaleo, Francesco) On the structure of KMS states of disordered systems. (English summary) **2005h:82006**
Bebiano, N. (*with* da Providência, João; Lemos, Rute Correia) Matrix inequalities in statistical mechanics. (English summary) **2005b:82008**
Blower, Gordon Almost sure weak convergence for the circular ensembles of Dyson. (English summary) **2005i:82012**
Boisseau, B. Vortex in a weakly relativistic Bose gas at zero temperature and relativistic fluid approximation. (English summary) **2005d:82009**
Briet, Philippe (*with* Cornean, Horia D.; Zagrebnov, Valentin A.) Do bosons condense in a homogeneous magnetic field? (English summary) **2005m:82007**
Bru, Jean-Bernard *see* **Adams, Stefan**, **2005g:82007**
Caputo, Pietro (*with* Martinelli, Fabio) Relaxation time of anisotropic simple exclusion processes and quantum Heisenberg models. (English summary) **2005b:82009**
Cassam-Chenaï, Patrick (*with* Patras, Frédéric) The Hopf algebra of identical, fermionic particle systems—fundamental concepts and properties. (English summary) **2005d:82010**
Chandrasekharan, S. (*with* Cox, J.; Osborn, J. C.; Wiese, U.-J.) Meron-cluster approach to systems of strongly correlated electrons. (English summary) **2005h:82007**
Cheianov, Vadim V. (*with* Zvonarev, M. B.) Zero temperature correlation functions for the impenetrable fermion gas. (English summary) **2005b:82010**
Chen, Jincan (*with* Lin, Bihong) Low-temperature behaviour of an ideal Bose gas and some forbidden thermodynamic cycles. (English summary) **2005a:82014**
Ciccariello, Salvino The Lerch function and the thermodynamical functions of the ideal quantum gases. (English summary) **2005e:82008**
Cohen-Tannoudji, Claude Bose-Einstein condensation: an introduction. (English summary) (*see* **2005c:82002**)
Cornean, Horia D. Magnetic response in ideal quantum gases: the thermodynamic limit. (English summary) **2005g:82008**
— *see also* **Briet, Philippe et al.**, **2005m:82007**
Cox, J. *see* **Chandrasekharan, S. et al.**, **2005h:82007**
Cramer, Marcus *see* **Plenio, M. B. et al.**, **2005m:82012**
da Cruz, Wellington Fractal von Neumann entropy. (English summary) **2005m:82008**
Cvitanović, Predrag *see* **Porter, Mason A.**, **2005d:82014**
Czachor, Marek Comment on: "Quantum entropy and special relativity" [Phys. Rev. Lett. **88** (2002), no. 23, 230402, 3 pp.; MR1920421 (2003j:81020)] by A. Peres, P. F. Scudo and D. R. Terno.
— *see also* **Peres, Asher et al.**
Dai, Wu-Sheng (*with* Xie, Mi) Gentile statistics with a large maximum occupation number. (English summary) **2005d:82011**
Decoster, Alain Variational principles and thermodynamical perturbations. (English summary) **2005g:82009**
Dorey, Patrick (*with* Suzuki, Junji; Tateo, Roberto) Finite lattice Bethe ansatz systems and the Heun equation. (English summary) **2005c:82010**
Dorlas, Teunis C. (*with* Skripnik, V. I.) Two order parameters in quantum XZ spin models with Gibbsian ground states. (English summary) **2005e:82009**
Dreißig, J. *see* **Plenio, M. B. et al.**, **2005m:82012**
Eichelsbacher, Peter (*with* Löwe, Matthias) Moderate deviations for a class of mean-field models. (English summary) **2005f:82008**
Eisert, J. *see* **Plenio, M. B. et al.**, **2005m:82012**
Fannes, Mark (*with* Haegeman, Bart; Mosonyi, M.) Entropy growth of shift-invariant states on a quantum spin chain. (English summary) **2005a:82015**
Federbush, Paul A polymer expansion for the quantum Heisenberg ferromagnet wave function. (English summary) **2005b:82011**
Feldman, Joel (*with* Knörrer, Horst; Trubowitz, Eugene) Single scale analysis of many fermion systems. I. Insulators. (English summary) **2005m:82009a**
— (*with* Knörrer, Horst; Trubowitz, Eugene) Single scale analysis of many fermion systems. II. The first scale. (English summary) **2005m:82009b**
— (*with* Knörrer, Horst; Trubowitz, Eugene) Single scale analysis of many fermion systems. III. Sectorized norms. (English summary) **2005m:82009c**
— (*with* Knörrer, Horst; Trubowitz, Eugene) Single scale analysis of many fermion systems. IV. Sector counting. (English summary) **2005m:82009d**
— (*with* Knörrer, Horst; Trubowitz, Eugene) Particle—hole ladders. (English summary) **2005g:82010**
Feranchuk, I. D. (*with* Ivanov, Alexei Alexeevich) Operator method for nonperturbative calculation of the thermodynamic values in quantum statistics: diatomic molecular gas. (English summary) **2005g:82011**
Fidaleo, Francesco *see* **Barreto, Stephen Dias**, **2005h:82006**
Forrester, Peter J. (*with* Frankel, N. E.; Garoni, T. M.; Witte, N. S.) Painlevé transcendent evaluations of finite system density matrices for 1d impenetrable bosons. (English summary) **2005c:82011**
Frankel, N. E. *see* **Forrester, Peter J. et al.**, **2005c:82011**
Gangardt, D. M. Universal correlations of trapped one-dimensional impenetrable bosons. (English summary) **2005e:82010**
Garoni, T. M. *see* **Forrester, Peter J. et al.**, **2005c:82011**
Gavrilik, Alexandre M. *see* **Adamska, L. V.**, **2005a:82011**
Gielerak, Roman (*with* Rałowski, Robert) Statistical mechanics of a class of anyonic systems. The rigorous approach. (English summary) **2005k:82005**
Haegeman, Bart *see* **Fannes, Mark et al.**, **2005a:82015**
Hasegawa, Hiroshi H. Dual geometry of the Wigner-Yanase-Dyson information content. (English summary) **2005f:82009**
Hayden, Patrick (*with* Jozsa, Richard; Petz, Dénes; Winter, Andreas) Structure of states which satisfy strong subadditivity of quantum entropy with equality. (English summary) **2005a:82016**
Howard, I. A. (*with* Komarov, I. V.; March, N. H.; Nieto, Luis M.) An exactly solvable model where properties of a fermion assembly are dominated by the highest occupied level: case of harmonic confinement in d dimensions. (English summary) **2005f:82010**
Ivanov, Alexei Alexeevich *see* **Feranchuk, I. D.**, **2005g:82011**
Jafarpour, Farhad H. Matrix product states of three families of one-dimensional interacting particle systems. (English summary)
Janke, Wolfhard *see* **Johnston, Desmond A. et al.**, **2005d:82012**
Jizba, Petr (*with* Arimitsu, Toshihico) The world according to Rényi: thermodynamics of multifractal systems. (English summary) **2005g:82012**
Johnston, Desmond A. (*with* Janke, Wolfhard; Kenna, R.) Information geometry, one, two, three (and four). (English summary) **2005d:82012**
Jozsa, Richard *see* **Hayden, Patrick et al.**, **2005a:82016**
van Kampen, N. G. A new approach to noise in quantum mechanics. (English summary) **2005a:82017**
Kawazoe, Yoshiyuki *see* **Sasaki, Ken-ichi et al.**, **2005d:82016**
Kendon, Viv (*with* Sanders, Barry C.) Complementarity and quantum walks. (English summary) **2005k:82006**
Kenna, R. *see* **Johnston, Desmond A. et al.**, **2005d:82012**
Kleinert, Hagen (*with* Schmidt, Sebastian; Pelster, Axel) Quantum phase diagram for homogeneous Bose-Einstein condensate. (English summary) **2005m:82010**
Knörrer, Horst *see* **Feldman, Joel et al.**, **2005g:82010**; **2005m:82009a**; **2005m:82009b**; **2005m:82009c** *and* **2005m:82009d**
Kolomeisky, Eugene B. *see* **Straley, Joseph P. et al.**, **2005g:82014**
Komarov, I. V. *see* **Howard, I. A. et al.**, **2005f:82010**
Kondrat′ev, Yu. G. (*with* Kozitskiĭ, Yu. V.) Quantum stabilization and decay of correlations in anharmonic crystals. (English summary) **2005a:82018**
— *see also* **Al′beverio, S. et al.**, **2005b:82007** *and* **2005j:82005**
Kozitskiĭ, Yu. V. *see* **Kondrat′ev, Yu. G.**, **2005a:82018**
Leggett, A. J. The relation between the Gross-Pitaevskii and Bogoliubov descriptions of a dilute Bose gas. (English summary) **2005i:82013**
Lemos, Rute Correia *see* **Bebiano, N. et al.**, **2005b:82008**
Leschke, Hajo (*with* Warzel, Simone; Weichlein, Alexandra) Ballistic transport in random magnetic fields with anisotropic long-ranged correlations. (English summary) **2005j:82007**
Li, Wei-Bin *see* **Zhan, Zhi-Ming et al.**, **2005i:82016**
Lieb, Elliott H. (*with* Seiringer, Robert; Yngvason, Jakob) One-dimensional behavior of dilute, trapped Bose gases. (English summary) **2005b:82012**
— (*with* Solovej, Jan Philip) Ground state energy of the two-component charged Bose gas. (English summary) **2005i:82014**
Lin, Bihong *see* **Chen, Jincan**, **2005a:82014**
Löwe, Matthias *see* **Eichelsbacher, Peter**, **2005f:82008**
Malyshev, K. L. Functional integration with "automorphic" boundary conditions and correlators of Z-components of spins in the XY and XX Heisenberg chains. (English summary) **2005e:82011**
March, N. H. *see* **Howard, I. A. et al.**, **2005f:82010**
Martinelli, Fabio *see* **Caputo, Pietro**, **2005b:82009**

Matsui, Taku Quantum spin chain and Popescu systems. **2005e:82012**
Milne, Stephen C. *see* **Straley, Joseph P. et al., 2005g:82014**
Minguzzi, A. (*with* Succi, Sauro; Toschi, F.; Tosi, M. P.; Vignolo, P.) ★ Numerical methods for atomic quantum gases. (English summary) **2005f:82011**
Moriya, Hajime *see* **Araki, Huzihiro, 2005a:82013**
Mosonyi, M. *see* **Fannes, Mark et al., 2005a:82015**
Mukhamedov, Farrukh On a factor associated with the unordered phase of λ-model on a Cayley tree. (English summary) **2005d:82013**
Naudts, Jan Escort density operators and generalized quantum information measures. (English summary) **2005m:82011**
Netočný, K. (*with* Redig, Frank) Large deviations for quantum spin systems. (English summary) **2005h:82008**
Nieto, Luis M. *see* **Howard, I. A. et al., 2005f:82010**
Oksak, A. I. (*with* Sukhanov, A. D.) Representation of quantum Brownian motion in the collective coordinate method. (Russian. Russian summary) **2005b:82013**
Osborn, J. C. *see* **Chandrasekharan, S. et al., 2005h:82007**
Ovchinnikov, S. G. *see* **Val'kov, V. V., 2005a:82020**
Parthasarathy, Ragavachariar (*with* Sridhar, Raghavendra) Diagonal representation of density matrix using q-coherent states. (English summary) **2005f:82012**
Pasurek, Tatiana *see* **Al'beverio, S. et al., 2005b:82007** *and* **2005j:82005**
Patras, Frédéric *see* **Cassam-Chenaï, Patrick, 2005d:82010**
Pelster, Axel *see* **Kleinert, Hagen et al., 2005m:82010**
Peres, Asher (*with* Scudo, Petra F.; Terno, Daniel R.) Peres, Scudo, and Terno reply: "Comment on: 'Quantum entropy and special relativity'" [Phys. Rev. Lett. **94** (2005), no. 7, 078901, 1 pp.; MR2135110] by M. Czachor.
— *see also* **Czachor, Marek**
Petrina, Dmitro Yakovich Equilibrium and nonequilibrium states of model Fröhlich-Peierls Hamiltonian. (English and Ukrainian summaries) **2005g:82013**
Petz, Dénes *see* **Hayden, Patrick et al., 2005a:82016**
Plenio, M. B. (*with* Eisert, J.; Dreißig, J.; Cramer, Marcus) Entropy, entanglement, and area: analytical results for harmonic lattice systems. (English summary) **2005m:82012**
Porter, Mason A. (*with* Cvitanović, Predrag) A perturbative analysis of modulated amplitude waves in Bose-Einstein condensates. (English summary) **2005d:82014**
da Providência, João *see* **Bebiano, N. et al., 2005b:82008**
Pulé, Joseph V. (*with* Zagrebnov, Valentin A.) The canonical perfect Bose gas in Casimir boxes. (English summary) **2005h:82009**
— (*with* Zagrebnov, Valentin A.) The approximating Hamiltonian method for the imperfect boson gas. (English summary) **2005d:82015**
— (*with* Verbeure, André F.; Zagrebnov, Valentin A.) Models with recoil for Bose-Einstein condensation and superradiance. (English summary) **2005m:82013**
Pulvirenti, Mario On the quantum Boltzmann equation. (English summary) (*see* **2005c:81007**)
Rałowski, Robert *see* **Gielerak, Roman, 2005k:82005**
Redig, Frank *see* **Netočný, K., 2005h:82008**
Röckner, Michael *see* **Al'beverio, S. et al., 2005b:82007** *and* **2005j:82005**
Ruskai, Mary Beth Erratum: "Inequalities for quantum entropy: a review with conditions for equality" [J. Math. Phys. **43** (2002), no. 9, 4358–4375; MR1924445 (2004e:82007)]. **2005h:82010**
Saito, Riichiro *see* **Sasaki, Ken-ichi et al., 2005d:82016**
Sanders, Barry C. *see* **Kendon, Viv, 2005k:82006**
Sankovich, D. P. On the Bose condensation in some model of a nonideal Bose gas. (English summary) **2005i:82015**
Sasaki, Ken-ichi (*with* Kawazoe, Yoshiyuki; Saito, Riichiro) Fractional flux periodicity in tori composed of square lattice. (English summary) **2005d:82016**
Schmidt, Sebastian *see* **Kleinert, Hagen et al., 2005m:82010**
Schroer, Bert Thermal behavior induced by vacuum polarization on causal horizons in comparison with the standard heat bath formalism. (English summary) **2005h:82011**
Scudo, Petra F. *see* **Czachor, Marek** *and* **Peres, Asher et al.**
Seiringer, Robert *see* **Lieb, Elliott H. et al., 2005b:82012**
Sitko, Piotr Charge and statistics of quasiholes in Pfaffian states of composite fermion excitations. (English summary) **2005c:82012**
Skripnik, V. I. *see* **Dorlas, Teunis C., 2005e:82009**
Snoek, Michiel *see* **Zhou, Fei^2, 2005k:82008**
Solovej, Jan Philip *see* **Lieb, Elliott H., 2005i:82014**
Sommers, Hans-Jürgen (*with* Życzkowski, Karol) Statistical properties of random density matrices. (English summary) **2005k:82007**
Sridhar, Raghavendra *see* **Parthasarathy, Ragavachariar, 2005f:82012**
Straley, Joseph P. (*with* Kolomeisky, Eugene B.; Milne, Stephen C.) The Bose molecule in one dimension. (English summary) **2005g:82014**
Succi, Sauro *see* **Minguzzi, A. et al., 2005f:82011**
Sukhanov, A. D. *see* **Oksak, A. I., 2005b:82013**
Sun, Chiachung *see* **Wei, Liqiang et al., 2005a:82021** *and* **2005d:82017**
Sütő, András Correlation inequalities for noninteracting Bose gases. (English summary) **2005a:82019**
— Normal and generalized Bose condensation in traps: one dimensional examples. (English summary) **2005g:82015**
Suzuki, Junji *see* **Dorey, Patrick et al., 2005c:82010**
Tateo, Roberto *see* **Dorey, Patrick et al., 2005c:82010**
Terno, Daniel R. *see* **Czachor, Marek** *and* **Peres, Asher et al.**
Tian, Guang-Shan Lieb's spin-reflection-positivity method and its applications to strongly correlated electron systems. (English summary) **2005g:82016**
Toschi, F. *see* **Minguzzi, A. et al., 2005f:82011**
Tosi, M. P. *see* **Minguzzi, A. et al., 2005f:82011**
Trubowitz, Eugene *see* **Feldman, Joel et al., 2005g:82010**; **2005m:82009a**; **2005m:82009b**; **2005m:82009c** *and* **2005m:82009d**
Val'kov, V. V. (*with* Ovchinnikov, S. G.) ★ Квазичастицы в сильно коррелированных системах. (Russian. Russian summary) [Quasiparticles in strongly correlated systems] **2005a:82020**
Verbeure, André F. *see* **Pulé, Joseph V. et al., 2005m:82013**
Vignolo, P. *see* **Minguzzi, A. et al., 2005f:82011**
Wang, Xian-Zhi Critical temperature of Bose-Einstein condensation of a dilute Bose gas. (English summary)
Wang, Yan Alexander *see* **Zahariev, Federico E., 2005h:82012**
Warzel, Simone *see* **Leschke, Hajo et al., 2005j:82007**
Wei, Liqiang (*with* Sun, Chiachung; Zeng, Zonghao) Second quantized reduced Bloch equations and the exact solutions for pairing Hamiltonian. (English summary) **2005d:82017**
— (*with* Sun, Chiachung) Hierarchy Bloch equations for the reduced statistical density operators in canonical and grand canonical ensembles. (English summary) **2005a:82021**
Weichlein, Alexandra *see* **Leschke, Hajo et al., 2005j:82007**
Wiese, U.-J. *see* **Chandrasekharan, S. et al., 2005h:82007**
Winter, Andreas *see* **Hayden, Patrick et al., 2005a:82016**
Witte, N. S. *see* **Forrester, Peter J. et al., 2005c:82011**
Xie, Mi *see* **Dai, Wu-Sheng, 2005d:82011**
Yang, Wen-Xing *see* **Zhan, Zhi-Ming et al., 2005i:82016**
Yngvason, Jakob *see* **Lieb, Elliott H. et al., 2005b:82012**
Zagrebnov, Valentin A. *see* **Pulé, Joseph V. et al., 2005d:82015**; **2005h:82009**; **2005m:82013** *and* **Briet, Philippe et al., 2005m:82007**
Zahariev, Federico E. (*with* Wang, Yan Alexander) Functional derivative of the universal density functional in Fock space. (English summary) **2005h:82012**
Zeng, Zonghao *see* **Wei, Liqiang et al., 2005d:82017**
Zhan, Zhi-Ming (*with* Li, Wei-Bin; Yang, Wen-Xing) Analytical results for model describing interactions among six bosonic modes. (English summary) **2005i:82016**
Zhou, Fei^2 (*with* Snoek, Michiel) Spin singlet Mott states and evidence for spin singlet quantum condensates of spin-one bosons in lattices. (English summary) **2005k:82008**
Zvonarev, M. B. *see* **Cheianov, Vadim V., 2005b:82010**
Życzkowski, Karol *see* **Sommers, Hans-Jürgen, 2005k:82007**

Items with secondary classifications in 82B10

Abdel-Khalek, S. *see* **Obada, Abdel-Shafy F., 2005c:81258**
Abe, Sumiyoshi Generalized nonadditive information theory and quantum entanglement. (English summary) (*see* **2005g:82001**)
Accardi, Luidgi (*with* Imafuku, Kentaro) Dynamical detailed balance and local KMS condition for non-equilibrium states. (English summary) **2005d:82068**
Adami, Riccardo (*with* Bardos, Claude; Golse, François; Teta, Alessandro) Towards a rigorous derivation of the cubic NLSE in dimension one. (English summary) **2005g:35263**
Adams, Stefan (*with* Bru, Jean-Bernard) A new microscopic theory of superfluidity at all temperatures. (English summary) **2005g:82133**
Al'beverio, S. (*with* Mazzucchi, S.) Some new developments in the theory of path integrals, with applications to quantum theory. (English summary) **2005c:81121**
Alcaraz, Francisco C. (*with* Lazo, Matheus J.) The Bethe ansatz as a matrix product ansatz. (English summary) **2005d:82030**
Aqua, J.-N. (*with* Cornu, F.) Density profiles in a quantum Coulomb fluid near a hard wall. (English summary) **2005f:82024**
Attal, Stéphane (*with* Pautrat, Yan) From $(n+1)$-level atom chains to n-dimensional noises. (English and French summaries) **2005m:81178**
Bach, Eric (*with* Coppersmith, Susan; Goldschen, Marcel Paz; Joynt, Robert; Watrous, John) One-dimensional quantum walks with absorbing boundaries. (English summary) **2005h:81087**
Barci, Daniel G. (*with* Oxman, Luis E.) Single superfield representation for mixed retarded and advanced correlators in disordered systems. (English summary) **2005e:82049**
Bardos, Claude *see* **Adami, Riccardo et al., 2005g:35263**
Benatti, Fabio (*with* Cappellini, Valerio; Zertuche, Federico) Quantum dynamical entropies in discrete classical chaos. (English summary) **2005f:37063**
Berezanskiĭ, Yuriĭ Makarovich The generalized moment problem associated with correlation measures. (Russian) **2005e:47057**
Bhaduri, Rajat K. *see* **Tran, Muoi N. et al., 2005e:11173**
Blanchard, Philippe (*with* Hongler, M.-O.) Quantum random walks and piecewise deterministic evolutions. (English summary) **2005d:82040**
Bogolyubov, N. M. *see* **Bullough, Robin K. et al., 2005d:81176**
Bokanowski, Olivier (*with* Grébert, Benoît; Mauser, Norbert J.) Local density approximations for the energy of a periodic Coulomb model. (English summary) **2005a:82110**
Bolivar, A. O. ★ Quantum-classical correspondence. **2005e:81007**
Boukraa, S. *see* **Zenine, N. et al., 2005m:82048**
Bouzas, Antonio O. (*with* Méndez Gamboa, José) Rotating frames and gauge invariance in three-dimensional many-body quantum systems. (English summary) **2005k:81374**
Brevik, Iver (*with* Bytsenko, Andrei A.; Sollie, Roger) Thermodynamic properties of the $2N$-piece relativistic string. (English summary) **2005a:81160**
Bru, Jean-Bernard *see* **Adams, Stefan, 2005g:82133**
Bullough, Robin K. (*with* Bogolyubov, N. M.; Kapitonov, V. S.; Malyshev, K. L.; Timonen, Jussi; Rybin, Andrei V.; Varzugin, G. G.; Lindberg, Markus) Quantum integrable and nonintegrable models based on the nonlinear Schrödinger equation for a realizable Bose-Einstein condensation in the dimension $d+1$ ($d=1,2,3$). (Russian. Russian summary) **2005d:81176**
Bytsenko, Andrei A. *see* **Brevik, Iver et al., 2005a:81160**
Cappellini, Valerio *see* **Benatti, Fabio et al., 2005f:37063**
Caracciolo, Sergio (*with* Sportiello, Andrea) General duality for abelian-group-valued statistical-mechanics models. (English summary) **2005i:82006**
Chang, Shu-Ming (*with* Lin, Wen Wei; Shieh, Shih-Feng) Gauss-Seidel-type methods for energy states of a multi-component Bose-Einstein condensate. (English summary) **2005g:82068**
Continentino, Mucio A. (*with* Ferreira, André S.) Quantum first-order phase transitions. (English summary) **2005d:82037**
Coppersmith, Susan *see* **Bach, Eric et al., 2005h:81087**
Cornu, F. *see* **Aqua, J.-N., 2005f:82024**
Dereziński, Jan (*with* Jakšić, Vojkan; Pillet, Claude-Alain) Perturbation theory of W^*-dynamics, Liouvilleans and KMS-states. (English summary) **2005b:46151**
Dorey, Patrick (*with* Fioravanti, Davide; Rim, Chaiho; Tateo, Roberto) Integrable quantum field theory with boundaries: the exact g-function. (English summary)

2005d:81177
Dukelsky, Jorge *see* **Sierra, Germán et al., 2005f:82141**
Evans, David E. Critical phenomena, modular invariants and operator algebras. (English summary) **2005e:46117**
Evans, Lawrence C. Towards a quantum analog of weak KAM theory. (English summary) **2005c:81063**
Ezhov, Alexandr A. (*with* Khrennikov, Andrei Yu.) Agents with left and right dominant hemispheres and quantum statistics. (English summary)
Fannes, Mark (*with* Haegeman, Bart) Quantum dynamical entropies for classical stochastic systems. (English summary) **2005a:82083**
Feldman, Joel (*with* Knörrer, Horst; Trubowitz, Eugene) A two dimensional Fermi liquid. I. Overview. (English summary) **2005g:82043**
— (*with* Knörrer, Horst; Trubowitz, Eugene) A two dimensional Fermi liquid. II. Convergence. (English summary) **2005g:82047**
— (*with* Knörrer, Horst; Trubowitz, Eugene) A two dimensional Fermi liquid. III. The Fermi surface. (English summary) **2005g:82044**
— (*with* Knörrer, Horst; Trubowitz, Eugene) Convergence of perturbation expansions in fermionic models. I. Nonperturbative bounds. (English summary) **2005g:82045**
— (*with* Knörrer, Horst; Trubowitz, Eugene) Convergence of perturbation expansions in Fermionic models. II. Overlapping loops. (English summary) **2005g:82046**
Ferreira, André S. *see* **Continentino, Mucio A., 2005d:82037**
Ferrero Melgar, Miguel *see* **Salgado, D. et al., 2005k:46185**
Fidaleo, Francesco Infinite dimensional entangled Markov chains. (English summary) **2005i:46078**
Fioravanti, Davide *see* **Dorey, Patrick et al., 2005d:81177**
Forrester, Peter J. (*with* Frankel, N. E.; Garoni, T. M.) Random matrix averages and the impenetrable Bose gas in Dirichlet and Neumann boundary conditions. (English summary) **2005m:82069**
Frankel, N. E. *see* **Forrester, Peter J. et al., 2005m:82069**
Fröhlich, Jürg (*with* Lenzmann, Enno) Mean-field limit of quantum Bose gases and nonlinear Hartree equation. (English summary) **2005m:81079**
Garcia, M. E. *see* **Grigorenko, I.**
Gardiner, C. W. (*with* Zoller, P.) ★ Quantum noise. **2005g:81366**
Garoni, T. M. *see* **Forrester, Peter J. et al., 2005m:82069**
Gérard, Christian (*with* Jäkel, Christian D.) Thermal quantum fields with spatially cutoff interactions in $1+1$ space-time dimensions. (English summary) **2005m:81195**
Goldin, Gerald A. (*with* Majid, Shahn) On the Fock space for nonrelativistic anyon fields and braided tensor products. (English summary) **2005k:81141**
Goldschen, Marcel Paz *see* **Bach, Eric et al., 2005h:81087**
Golse, François *see* **Adami, Riccardo et al., 2005g:35263**
Grébert, Benoît *see* **Bokanowski, Olivier et al., 2005a:82110**
Grigorenko, I. (*with* Garcia, M. E.) Calculation of the partition function using quantum genetic algorithms. (English summary)
Gruber, Christian (*with* Zagrebnov, Valentin A.) Random-field quantum spherical ferroelectric model. (English summary) **2005d:82052**
Haegeman, Bart *see* **Fannes, Mark, 2005a:82083**
Hartley, Julian (*with* Vedral, Vlatko) Entropy as a function of geometric phase. (English summary) **2005f:81078**
Hassani, Saoud *see* **Zenine, N. et al., 2005m:82048**
Hauksson, Bergthór (*with* Yngvason, Jakob) Asymptotic exactness of magnetic Thomas-Fermi theory at nonzero temperature. (English summary) **2005f:82025**
Hiai, Fumio Free analog of pressure and its Legendre transform. (English summary) **2005k:46178**
Hillar, Christopher J. (*with* Johnson, Charles Royal) On the positivity of the coefficients of a certain polynomial defined by two positive definite matrices. (English summary) **2005m:15054**
Holthaus, Martin *see* **Weiss, Christoph et al., 2005g:11263**
Honegger, Reinhard (*with* Rieckers, Alfred) Partially classical states of a boson field. (English summary) **2005e:81115**
Hongler, M.-O. *see* **Blanchard, Philippe, 2005d:82040**
Imafuku, Kentaro *see* **Accardi, Luidgi, 2005d:82068**
Jäkel, Christian D. The relation between KMS states for different temperatures. (English summary) **2005e:81130**
Jäkel, Christian D. *see* **Gérard, Christian, 2005m:81195**
Jakšić, Vojkan *see* **Dereziński, Jan et al., 2005b:46151**
Jenčová, Anna Generalized relative entropies as contrast functionals on density matrices. (English summary) **2005h:81061**
Jin, Li-Xia *see* **Yang, Wen-Xing et al., 2005j:81214**
Johnson, Charles Royal *see* **Hillar, Christopher J., 2005m:15054**
Joynt, Robert *see* **Bach, Eric et al., 2005h:81087**
Jozsa, Richard *see* **Mitchison, Graeme, 2005a:81029**
Kapitonov, V. S. *see* **Bullough, Robin K. et al., 2005d:81176**
Kellendonk, Johannes Topological quantization of boundary forces and the integrated density of states. (English summary) **2005b:82044**
Khrennikov, Andrei Yu. *see* **Ezhov, Alexandr A.**
Kieu, Tien D. The second law, Maxwell's demon, and work derivable from quantum heat engines. (English summary) **2005h:82044**
Klopp, Frédéric (*with* Nakamura, Shu; Nakano, Fumihiko; Nomura, Yuji) Anderson localization for 2D discrete Schrödinger operators with random magnetic fields. (English summary) **2005a:82046**
Knörrer, Horst *see* **Feldman, Joel et al., 2005g:82043; 2005g:82044; 2005g:82045; 2005g:82046** *and* **2005g:82047**
Kostrykin, Vadim (*with* Schrader, Robert) A random necklace model. (English summary) **2005b:81225**
Koval′, G. V. An inequality for entropy corresponding to solutions of a unitary-nonlinear equation of quantum thermodynamics. (Russian) **2005h:82045**
— A modification of a two-level model of V. P. Maslov, and phase transitions. (Russian) **2005k:82019**
Kuckert, Bernd Moving quantum systems: particles versus vacuum. (English summary) **2005a:81130**
Lazo, Matheus J. *see* **Alcaraz, Francisco C., 2005d:82030**
Lenzmann, Enno *see* **Fröhlich, Jürg, 2005m:81079**
Li, Jia-Hua *see* **Yang, Wen-Xing et al., 2005j:81214**
Lidar, Daniel A. *see* **Wu, Lian Ao et al., 2005h:81081**
Lin, Wen Wei *see* **Chang, Shu-Ming et al., 2005g:82068**
Lindberg, Markus *see* **Bullough, Robin K. et al., 2005d:81176**
Maillard, Jean-Marie[1] *see* **Zenine, N. et al., 2005m:82048**
Majewski, Władysław A. On entanglement of states and quantum correlations. (English summary) **2005b:81014**
Majid, Shahn *see* **Goldin, Gerald A., 2005k:81141**
Malyshev, K. L. *see* **Bullough, Robin K. et al., 2005d:81176**
Mauser, Norbert J. *see* **Bokanowski, Olivier et al., 2005a:82110**
Mazzucchi, S. *see* **Al'beverio, S., 2005c:81121**
Méndez Gamboa, José *see* **Bouzas, Antonio O., 2005k:81374**
Mitchison, Graeme (*with* Jozsa, Richard) Towards a geometrical interpretation of quantum-information compression. (English summary) **2005a:81029**
Murthy, M. V. N. *see* **Tran, Muoi N. et al., 2005e:11173**
Nachtergaele, Bruno (*with* Spitzer, Wolfgang L.; Starr, Shannon) Ferromagnetic ordering of energy levels. (English summary) **2005g:82021**
Nakamura, Shu *see* **Klopp, Frédéric et al., 2005a:82046**
Nakano, Fumihiko *see* **Klopp, Frédéric et al., 2005a:82046**
Narnhofer, Heide (*with* Thirring, Walter) On the relation between strong subadditivity and entanglement. (English summary) **2005i:81020**
Nomura, Yuji *see* **Klopp, Frédéric et al., 2005a:82046**
Obada, Abdel-Shafy F. (*with* Abdel-Khalek, S.) New features of the atomic Wehrl entropy and its density in multi-quanta two-level system. (English summary) **2005c:81258**
Ojima, Izumi Temperature as order parameter of broken scale invariance. (English summary) **2005g:81183**
Oxman, Luis E. *see* **Barci, Daniel G., 2005e:82049**
Page, Steffen *see* **Weiss, Christoph et al., 2005g:11263**
Pautrat, Yan *see* **Attal, Stéphane, 2005m:81178**
Peschel, Ingo Entanglement entropy with interface defects. (English summary) **2005m:82027**
Petrina, Dmitro Yakovich Model BCS Hamiltonian and approximating Hamiltonian for an infinite volume. IV. Two branches of their common spectra and states. (English and Ukrainian summaries) **2005b:82099**
Pillet, Claude-Alain *see* **Dereziński, Jan et al., 2005b:46151**
Pulé, Joseph V. (*with* Verbeure, André F.; Zagrebnov, Valentin A.) Models for equilibrium BEC superradiance. (English summary)
Rieckers, Alfred *see* **Honegger, Reinhard, 2005e:81115**
Rim, Chaiho *see* **Dorey, Patrick et al., 2005d:81177**
Román, José María *see* **Sierra, Germán et al., 2005f:82141**
Rybin, Andrei V. *see* **Bullough, Robin K. et al., 2005d:81176**
Salgado, D. (*with* Sánchez-Gómez, J. L.; Ferrero Melgar, Miguel) A simple proof of the Jamiołkowski criterion for complete positivity of linear maps. (English summary) **2005k:46185**
Sánchez-Gómez, J. L. *see* **Salgado, D. et al., 2005k:46185**
Sarandy, M. S. *see* **Wu, Lian Ao et al., 2005h:81081**
Schrader, Robert *see* **Kostrykin, Vadim, 2005b:81225**
Shi, Yu Quantum entanglement in second-quantized condensed matter systems. (English summary) **2005g:81043**
Shieh, Shih-Feng *see* **Chang, Shu-Ming et al., 2005g:82068**
Shopova, Diana V. (*with* Uzunov, Dimo I.) Some basic aspects of quantum phase transitions. (English summary) **2005g:82040**
Sierra, Germán (*with* Román, José María; Dukelsky, Jorge) The elementary excitations of the BCS model in the canonical ensemble. (English summary) **2005f:82141**
Sollie, Roger *see* **Brevik, Iver et al., 2005a:81160**
Spitzer, Wolfgang L. *see* **Nachtergaele, Bruno et al., 2005g:82021**
Sportiello, Andrea *see* **Caracciolo, Sergio, 2005i:82006**
Starr, Shannon *see* **Nachtergaele, Bruno et al., 2005g:82021**
Stöckmann, Hans-Jürgen The Calogero-Moser equation system and the ensemble average in the Gaussian ensembles. (English summary) **2005a:81094**
Tateo, Roberto *see* **Dorey, Patrick et al., 2005d:81177**
Teta, Alessandro *see* **Adami, Riccardo et al., 2005g:35263**
Thirring, Walter *see* **Narnhofer, Heide, 2005i:81020**
Timonen, Jussi *see* **Bullough, Robin K. et al., 2005d:81176**
Tran, Muoi N. (*with* Murthy, M. V. N.; Bhaduri, Rajat K.) On the quantum density of states and partitioning an integer. (English summary) **2005e:11173**
Trubowitz, Eugene *see* **Feldman, Joel et al., 2005g:82043; 2005g:82044; 2005g:82045; 2005g:82046** *and* **2005g:82047**
Uzunov, Dimo I. *see* **Shopova, Diana V., 2005g:82040**
Varzugin, G. G. *see* **Bullough, Robin K. et al., 2005d:81176**
Vedral, Vlatko *see* **Hartley, Julian, 2005f:81078**
Verbeure, André F. *see* **Pulé, Joseph V. et al.**
Wang, Jiong Darboux transformation and soliton solutions for the Heisenberg hierarchy. (English summary) **2005m:34141**
Watrous, John Notes on super-operator norms induced by Schatten norms. (English summary) **2005j:81009**
— *see also* **Bach, Eric et al., 2005h:81087**
Weiss, Christoph (*with* Page, Steffen; Holthaus, Martin) Factorising numbers with a Bose-Einstein condensate. (English summary) **2005g:11263**
Wetterich, Christof Quantum correlations in classical statistics. (English summary) (*see* **2005c:81005**)
Woynarovich, F. $O(1)$ contribution of saddle point fluctuations to the free energy of Bethe Ansatz systems. (English summary)
Wu, Lian Ao (*with* Sarandy, M. S.; Lidar, Daniel A.) Quantum phase transitions and bipartite entanglement. (English summary) **2005h:81081**
Yang, Wen-Xing (*with* Li, Jia-Hua; Zhan, Zhi-Ming; Jin, Li-Xia) Analytical results of eigenstates and eigenenergies for a classical model of many bosonic modes mixing. (English summary) **2005j:81214**

Yarotskiĭ, D. A. Perturbations of ground states in weakly interacting quantum spin systems. (English summary) **2005c:82023**
Yngvason, Jakob *see* **Hauksson, Bergthór, 2005f:82025**
Zagrebnov, Valentin A. *see* **Gruber, Christian, 2005d:82052** *and* **Pulé, Joseph V. et al.**
Zenine, N. (*with* Boukraa, S.; Hassani, Saoud; Maillard, Jean-Marie[1]) Square lattice Ising model susceptibility: series expansion method and differential equation for $\chi^{(3)}$. (English summary) **2005m:82048**
Zertuche, Federico *see* **Benatti, Fabio et al., 2005f:37063**
Zhan, Zhi-Ming *see* **Yang, Wen-Xing et al., 2005j:81214**
Zhang, Sheng Li[2] *see* **Zhao, Ren, 2005i:83081**
Zhao, Ren (*with* Zhang, Sheng Li[2]) Statistical entropy of the A torus-like black hole. (English summary) **2005i:83081**
Zoller, P. *see* **Gardiner, C. W., 2005g:81366**

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Ahmed, Mahrous Rashad (*with* Gehring, G. A.) The phase diagram of an anisotropic Potts model. (English summary)
Albertini, Francesca (*with* D'Alessandro, Domenico) Model identification for spin networks. (English summary) **2005j:82008**
Amin, Magdy E. On the limit distribution of layer block spin variables in the mean spherical model. (English summary) **2005a:82022**
Ananikyan, Nerses *see* **Ghulghazaryan, Ruben et al., 2005d:82019**
Anglès d'Auriac, J.-Ch. *see* **Mercaldo, M. T. et al.**
Anteneodo, Celia *see* **Vallejos, Raúl O., 2005c:82022**
Araki, Huzihiro (*with* Moriya, Hajime) Equilibrium statistical mechanics of fermion lattice systems. (English summary) **2005b:82014**
Arnaudon, Daniel (*with* Crampé, N.; Doikou, Anastasia; Frappat, Luc; Ragoucy, É.; Avan, Jean) On osp($M|2n$) integrable open spin chains. (English summary) **2005j:82009**
Au-Yang, Helen (*with* Perk, Jacques H. H.) Susceptibility calculations in periodic and quasiperiodic planar Ising models. (English summary) **2005b:82015**
Avan, Jean *see* **Arnaudon, Daniel et al., 2005j:82009**
Ay, Nihat *see* **Erb, Ionas, 2005m:82018**
Bach, Volker (*with* Møller, Jacob Schach) Correlation at low temperature. II. Asymptotics. (English summary) **2005i:82017**
Bakhtiari, M. R. *see* **Mirza, Behrouz, 2005d:82025**
Banach, G. *see* **Lemański, R. et al.**
Baxter, Rodney J. The "inversion relation" method for obtaining the free energy of the chiral Potts model. (English summary) **2005g:82017**
Bazhanov, Vladimir V. (*with* Mangazeev, Vladimir V.) Eight-vertex model and non-stationary Lamé equation. (English summary) **2005j:82010**
Betts, D. D. *see* **Penney, S. J. et al., 2005a:82026**
Biskup, Marek (*with* Chayes, Lincoln; Kotecký, Roman) Critical region for droplet formation in the two-dimensional Ising model. (English summary) **2005a:82023**
— (*with* Chayes, Lincoln; Nussinov, Z.) Orbital ordering in transition-metal compounds. I. The 120-degree model. (English summary) **2005m:82014**
Blöte, Henk W. J. *see* **Deng, Youjin**
Bogolyubskiĭ, A. I. (*with* Skorokhodov, S. L.) Padé approximants, symbolic transformations, and a method for computing solitons in a two-field antiferromagnet model. (Russian. Russian summary)
Boos, Herman E. (*with* Korepin, Vladimir; Smirnov, Fedor A.) Emptiness formation probability and quantum Knizhnik-Zamolodchikov equation. (English summary) **2005f:82013**
Bortz, Michael (*with* Klümper, Andreas) Lattice path integral approach to the one-dimensional Kondo model. (English summary) **2005h:82013**
Bracken, Paul Spin model equations, connections with integrable systems and applications to magnetic vortices. (English summary) **2005c:82013**
Brightwell, Graham R. (*with* Winkler, Peter M.) A second threshold for the hard-core model on a Bethe lattice. (English summary) **2005c:82014**
Bugriĭ, A. I. (*with* Lisoviĭ, O. O.) The correlation function of the two-dimensional Ising model on a lattice of finite dimensions. II. (Russian. Russian summary) **2005h:82014**
Bukhshtaber, Viktor Matveevich (*with* Monastyrskiĭ, M. I.) Generalized Kramers-Wannier duality for spin systems with non-commutative symmetry. (English summary) **2005c:82015**
Burioni, Raffaella *see* **Vezzani, Alessandro et al., 2005h:82026**
Campanino, Massimo (*with* Ioffe, Dimitri; Velenik, Yvan) Ornstein-Zernike theory for finite range Ising models above T_c. (English summary) **2005b:82016**
Cao, Junpeng (*with* Sun, Zhou-Zhou; Yin, Sun; Wang, Yupeng; Wang, Xiang Rong) Magnetic impurity effect on the entanglement in the Ising model. (English summary) **2005k:82009**
Caracciolo, Sergio (*with* Mognetti, Bortolo Matteo; Pelissetto, Andrea) Two-dimensional Heisenberg model with nonlinear interactions: $1/N$ corrections. (English summary) **2005i:82018**
Cassi, Davide *see* **Vezzani, Alessandro et al., 2005h:82026**
Castro-Alvaredo, Olalla (*with* Fring, Andreas) Chaos in the thermodynamic Bethe ansatz. (English summary) **2005h:82015**
Chayes, Lincoln *see* **Biskup, Marek et al., 2005a:82023** *and* **2005m:82014**
Chen, Hua[1] *see* **He, Jinchun et al., 2005d:82020**
Chen, Jing-Ling *see* **Wu, Chunfeng et al., 2005g:82024**
Chou, Tom *see* **D'Orsogna, Maria R., 2005h:82016**
Colomo, F. (*with* Pronko, A. G.) On the partition function of the six-vertex model with domain wall boundary conditions. (English summary) **2005d:82018**
Contucci, Pierluigi (*with* Giardinà, Cristian; Pulé, Joseph V.) The thermodynamic limit for finite dimensional classical and quantum disordered systems. (English summary) **2005b:82017**
Coolen, A. C. C. *see* **Nikoletopoulos, T. et al., 2005f:82019**
Crampé, N. *see* **Arnaudon, Daniel et al., 2005j:82009**
Cumyn, V. K. *see* **Penney, S. J. et al., 2005a:82026**
Dai, Lian-Rong *see* **Pan, Feng[1] et al., 2005b:82021**
D'Alessandro, Domenico *see* **Albertini, Francesca, 2005j:82008**
Das, Dibyendu (*with* Jacobsen, Jesper Lykke) Two-dimensional O(n) model in a staggered field. (English summary) **2005f:82014**
Das, Pratap Kumar (*with* Sen, Parongama) Probability distribution of persistent spins in an Ising chain. (English summary)
Deguchi, Tetsuo *see* **Nishino, Akinori, 2005b:82020**
De-Long, Ren *see* **Xin, Tian et al.**
Deng, Youjin (*with* Blöte, Henk W. J.) Edge phase transitions of the tricritical Potts model in two dimensions. (English summary)
Derényi, Imre *see* **Farkas, Illés et al., 2005h:82018**
Derzhko, Oleg (*with* Richter, Johannes; Krokhmalskii, Taras; Zaburannyi, Oles') Regularly alternating spin-$\frac{1}{2}$ anisotropic XY chains: the ground-state and thermodynamic properties. (English summary) **2005f:82015**
Di Francesco, P. A refined Razumov-Stroganov conjecture. (English summary) **2005m:82015**
— A refined Razumov-Stroganov conjecture. II. (English summary) **2005m:82016**
— (*with* Zinn-Justin, Paul) Around the Razumov-Stroganov conjecture: proof of a multi-parameter sum rule. (English summary) **2005m:82017**
Dinaburg, E. I. (*with* Maes, Christian; Pirogov, S. A.; Redig, Frank; Rybko, A. N.) The Potts model built on sand. (English summary) **2005h:82017**
Doikou, Anastasia *see* **Arnaudon, Daniel et al., 2005j:82009**
D'Orsogna, Maria R. (*with* Chou, Tom) Interparticle gap distributions on one-dimensional lattices. (English summary) **2005h:82016**
Draayer, J. P. *see* **Pan, Feng[1] et al., 2005b:82021**
van Eerten, Hendrik *see* **Fendley, Paul et al., 2005i:82019**
Egorov, B. V. *see* **Karnaukhov, I. N., 2005m:82023**
Ekiz, Cesur Bethe lattice consideration of the antiferromagnetic spin-1 Ising model. (English summary) **2005a:82024**
Elcoro, L. *see* **Etxebarria, I. et al., 2005k:82010**
Eloranta, Kari The bounded eight-vertex model. (English summary) **2005b:82018**
Enciso, A. (*with* Finkel, F.; González-López, Artemio; Rodríguez, Miguel Angel[2]) Haldane-Shastry spin chains of BC_N type. (English summary) **2005j:82011**
Erb, Ionas (*with* Ay, Nihat) Multi-information in the thermodynamic limit. (English summary) **2005m:82018**
Etxebarria, I. (*with* Elcoro, L.; Perez-Mato, J. M.) Generalized boundary conditions for periodic lattice systems: application to the two-dimensional Ising model on a square lattice. (English summary) **2005k:82010**
Fabricius, Klaus (*with* McCoy, Barry M.) New developments in the eight vertex model. (English summary) **2005a:82025**
Fan, Heng (*with* Lloyd, Seth) Entanglement and off-diagonal long-range order of an η-pairing state. (English summary) **2005m:82019**
Farkas, Illés (*with* Derényi, Imre; Palla, Gergely; Vicsek, Tamás) Equilibrium statistical mechanics of network structures. (English summary) **2005h:82018**
Fendler, Bernard (*with* Sknepnek, Rastko; Vojta, Thomas) Dynamics at a smeared phase transition. (English summary)
Fendley, Paul (*with* Schoutens, Kareljan; van Eerten, Hendrik) Hard squares with negative activity. (English summary) **2005i:82019**
— *see also* **Yang, Xiao[2], 2005e:82020**
Finkel, F. (*with* Gómez-Ullate Oteiza, D.; González-López, Artemio; Rodríguez, Miguel Angel[2]; Zhdanov, R. Z.) On the Sutherland spin model of B_N type and its associated spin chain. (English summary) **2005c:82016**
— *see also* **Enciso, A. et al., 2005j:82011**
Forrester, Peter J. (*with* Frankel, N. E.) Applications and generalizations of Fisher-Hartwig asymptotics. (English summary) **2005e:82013**
Frankel, N. E. *see* **Forrester, Peter J., 2005e:82013**
Frappat, Luc *see* **Arnaudon, Daniel et al., 2005j:82009**
Freericks, J. K. *see* **Lemański, R. et al.**
Friedland, Shmuel (*with* Peled, Uri N.) Theory of computation of multidimensional entropy with an application to the monomer-dimer problem. (English summary) **2005m:82020**
Fring, Andreas *see* **Castro-Alvaredo, Olalla, 2005h:82015**
Fujita, Takehisa (*with* Kobayashi, Takuya; Hiramoto, M.; Takahashi, Hidenori) Non-equivalence between Heisenberg XXZ spin chain and Thirring model. (English summary) **2005i:82020**
Gehring, G. A. *see* **Ahmed, Mahrous Rashad**
Ghulghazaryan, Ruben (*with* Ananikyan, Nerses; Jonassen, Tore M.) Julia sets and Yang-Lee zeros of the Potts model on Bethe lattices. (English summary) **2005d:82019**
Giardinà, Cristian *see* **Contucci, Pierluigi et al., 2005b:82017**
Göhmann, Frank (*with* Klümper, Andreas; Seel, Alexander) Integral representations for correlation functions of the XXZ chain at finite temperature. (English summary) **2005j:82012**
— (*with* Klümper, Andreas; Seel, Alexander) Integral representation of the density matrix of the XXZ chain at finite temperatures. (English summary) **2005i:82021**
Gómez-Ullate Oteiza, D. *see* **Finkel, F. et al., 2005c:82016**
González-López, Artemio *see* **Finkel, F. et al., 2005c:82016** *and* **Enciso, A. et al., 2005j:82011**
Gu, Shi-Jian (*with* Tian, Guang-Shan; Lin, Hai-Qing) Ground-state entanglement in the XXZ model. (English summary) **2005m:82021**
Häggström, Olle (*with* Külske, Christof) Gibbs properties of the fuzzy Potts model on trees and in mean field. (English summary) **2005m:82022**
Hakobyan, Tigran The ordering of energy levels for $\mathfrak{su}(n)$ symmetric antiferromagnetic chains. (English summary) **2005h:82019**
Hatchett, J. P. L. *see* **Nikoletopoulos, T. et al., 2005f:82019**
Hazewinkel, Michiel *see* **Torriani, Hugo H., 2005h:82025**
He, Jinchun (*with* Shi, Lina; Chen, Hua[1]; Huang, Nian-Ning) The Hamiltonian theory of the Landau-Lifschitz equation with an easy axis. (English summary) **2005d:82020**
Hieida, Y. (*with* Sasamoto, Tomohiro) Construction of a matrix product stationary state from solutions of a finite-size system. (English summary) **2005g:82018**
Higuchi, Yasunari (*with* Takei, Masato) Some results on the phase structure of the two-dimensional Widom-Rowlinson model. **2005f:82016**
Hiramoto, M. *see* **Fujita, Takehisa et al., 2005i:82020**

Huang, Nian-Ning *see* **He, Jinchun et al., 2005d:82020**
Iglói, Ferenc *see* **Mercaldo, M. T. et al.**
Inozemtsev, V. I. The eigenvectors of the Heisenberg Hamiltonian with elliptic form of the exchange spin interaction. (English summary) **2005k:82011**
Ioffe, Dimitri *see* **Campanino, Massimo et al., 2005b:82016**
Istrail, Sorin Statistical mechanics, three-dimensionality and NP-completeness. I. Universality of intractability for the partition function of the Ising model across non-planar surfaces (extended abstract). (*see* **2005i:68003**)
Its, A. R. (*with* Jin, B.-Q.; Korepin, Vladimir) Entanglement in the XY spin chain. (English summary) **2005j:82013**
Jacobsen, Jesper Lykke (*with* Salas, Jesús; Sokal, Alan D.) Transfer matrices and partition-function zeros for antiferromagnetic Potts models. III. Triangular-lattice chromatic polynomial. (English summary) **2005g:82019**
— (*with* Zinn-Justin, Paul) Algebraic Bethe ansatz for the FPL^2 model. (English summary) **2005e:82014**
— *see also* **Richard, Jean-François et al., 2005c:82020** *and* **Das, Dibyendu, 2005f:82014**
Jin, B.-Q. (*with* Korepin, Vladimir) Quantum spin chain, Toeplitz determinants and the Fisher-Hartwig conjecture. (English summary) **2005e:82015**
— *see also* **Its, A. R. et al., 2005j:82013**
Jonassen, Tore M. *see* **Ghulghazaryan, Ruben et al., 2005d:82019**
Jurčo, Branislav Large-N and Bethe ansatz. (English summary) **2005e:82016**
Kanemitsu, Shigeru (*with* Tanigawa, Yoshio; Yoshimoto, Masami) Determination of some lattice sum limits.
Karnaukhov, I. N. (*with* Egorov, B. V.) Exact solution of the Hubbard model with boundary hoppings and fields. (English summary) **2005m:82023**
Kato, Go (*with* Shiroishi, Masahiro; Takahashi, Minoru; Sakai, Kazumitsu) Third-neighbour and other four-point correlation functions of spin-1/2 XXZ chain. (English summary) **2005f:82017**
Katriel, J. The exchange interaction, spin Hamiltonians, and the symmetric group. (English summary) **2005d:82021**
Keating, Jonathan P. (*with* Mezzadri, F.) Entanglement in quantum spin chains, symmetry classes of random matrices, and conformal field theory. (English summary) **2005m:82024**
Kenyon, Richard W. (*with* Wilson, David Bruce) Critical resonance in the non-intersecting lattice path model. (English summary) **2005g:82020**
Khamraev, Murod (*with* Mukhamedov, Farrukh) On p-adic λ-model on the Cayley tree. (English summary) **2005h:82020**
Kim, Seung-Yeon Density of Yang-Lee zeros and Yang-Lee edge singularity for the antiferromagnetic Ising model. (English summary) **2005h:82021**
Kishore, R. (*with* Mishra, Ashok Kumar) Orthofermion statistics and its application to the infinite U Hubbard model. (English summary) **2005f:82018**
Kitanin, N. A. (*with* Maillet, J. M.; Slavnov, N. A.; Terras, V.) Master equation for spin-spin correlation functions of the XXZ chain. (English summary) **2005m:82025**
Klümper, Andreas *see* **Bortz, Michael, 2005h:82013**; **Göhmann, Frank et al., 2005i:82021** *and* **2005j:82012**
Kobayashi, Takuya *see* **Fujita, Takehisa et al., 2005i:82020**
Korepin, Vladimir *see* **Jin, B.-Q., 2005e:82015**; **Boos, Herman E. et al., 2005f:82013** *and* **Its, A. R. et al., 2005j:82013**
Korff, Christian The twisted XXZ chain at roots of unity revisited. (English summary) **2005c:82017**
— Auxiliary matrices on both sides of the equator. (English summary) **2005j:82014**
Kotecký, Roman *see* **Biskup, Marek et al., 2005a:82023**
Krokhmalskii, Taras *see* **Derzhko, Oleg et al., 2005f:82015**
Külske, Christof *see* **Häggström, Olle, 2005m:82022**
Kurak, V. (*with* Lima-Santos, A.) The $A_2^{(2)}$ Gaudin model and its associated Knizhnik-Zamolodchikov equation. (English summary) **2005m:82026**
Kwek, L. C. *see* **Wu, Chunfeng et al., 2005g:82024**
Lakaev, S. N. (*with* Muminov, Z. È.) Asymptotics of the number of eigenvalues of a three-particle Schrödinger operator on a lattice. (Russian) **2005h:82022**
Latora, Vito *see* **Pluchino, A. et al.**
Lemański, R. (*with* Freericks, J. K.; Banach, G.) Charge stripes due to electron correlations in the two-dimensional spinless Falicov-Kimball model. (English summary)
Li, Lu² *see* **Li, Qiu-Yan et al., 2005d:82022**
Li, Qiu-Yan (*with* Xie, Zheng-Wei; Li, Lu²; Li, Zai-Dong; Liang, Jiu Qing) Exact soliton solution of spin chain with an external magnetic field in linear wave background. (English summary) **2005d:82022**
Li, Zai-Dong *see* **Li, Qiu-Yan et al., 2005d:82022**
Liang, Jiu Qing *see* **Li, Qiu-Yan et al., 2005d:82022**
Liang, Liu *see* **Xin, Tian et al.**
Lidar, Daniel A. On the quantum computational complexity of the Ising spin glass partition function and of knot invariants. (English summary) **2005i:82022**
Lima-Santos, A. *see* **Kurak, V., 2005m:82026**
Lin, Hai-Qing *see* **Gu, Shi-Jian et al., 2005m:82021**
Lin, Jia-Tih *see* **Xin, Tian et al.**
Līsovīĭ, O. O. PDEs for Ising correlation functions on the cylinder. (English summary) **2005c:82018**
— *see also* **Bugrīĭ, A. I., 2005h:82014**
Lloyd, Seth *see* **Fan, Heng, 2005m:82019**
Lopes dos Santos, J. M. B. *see* **Viana Lopes, J. et al., 2005j:82018**
Maes, Christian *see* **Dinaburg, E. I. et al., 2005h:82017**
Maeshima, Nobuya Tensor product state formulation for the spin 1/2 antiferromagnetic XXZ model on the checkerboard lattice. (English summary) **2005h:82023**
Maillard, Jean-Marie¹ Polynomial growth for birational mappings from four-state spin edge models. (English summary) **2005d:82023**
Maillet, J. M. *see* **Kitanin, N. A. et al., 2005m:82025**
Mangazeev, Vladimir V. *see* **Bazhanov, Vladimir V., 2005j:82010**
McCoy, Barry M. *see* **Fabricius, Klaus, 2005a:82025**
Mercaldo, M. T. (*with* Anglès d'Auriac, J.-Ch.; Iglói, Ferenc) Disorder-induced rounding of the phase transition in the large-q-state Potts model. (English summary)
Mezzadri, F. *see* **Keating, Jonathan P., 2005m:82024**
Miracle-Solé, Salvador Low temperature states of the two and three dimensional Falicov-Kimball models. (English summary) **2005d:82024**
Mirza, Behrouz (*with* Bakhtiari, M. R.) A method of calculation for the determinant of the Potts model transfer matrix. (English summary) **2005d:82025**
Mishra, Ashok Kumar *see* **Kishore, R., 2005f:82018**
Moessner, R. (*with* Tchernyshyov, Oleg; Sondhi, S. L.) Planar pyrochlore, quantum ice and sliding ice. (English summary) **2005k:82012**
Mognetti, Bortolo Matteo *see* **Caracciolo, Sergio et al., 2005i:82018**
Møller, Jacob Schach *see* **Bach, Volker, 2005i:82017**
Monastyrskiĭ, M. I. *see* **Bukhshtaber, Viktor Matveevich, 2005c:82015**
Monroe, James L. The bilayer Ising model and a generalized Husimi tree approximation. (English summary) **2005c:82019**
Moore, Joel E. *see* **Refael, G., 2005j:82016** *and* **Xu, Cenke, 2005k:82013**
Moriya, Hajime *see* **Araki, Huzihiro, 2005b:82014**
Mossel, Elchanan Phase transitions in phylogeny. (English summary) **2005b:82019**
Mukhamedov, Farrukh (*with* Rozikov, Utkir A.) On Gibbs measures of p-adic Potts model on the Cayley tree. (English summary) **2005e:82017**
— *see also* **Khamraev, Murod, 2005h:82020**
Muminov, Z. È. *see* **Lakaev, S. N., 2005h:82022**
Nachtergaele, Bruno (*with* Spitzer, Wolfgang L.; Starr, Shannon) Ferromagnetic ordering of energy levels. (English summary) **2005g:82021**
Nakano, Fumihiko Spin of the ground state and the flux phase problem on the ring. (English summary) **2005j:82015**
Nekhoroshev, N. N. Asymptotics of Gibbs measures in one-dimensional lattice models. (Russian. Russian summary) **2005g:82022**
Nikoletopoulos, T. (*with* Coolen, A. C. C.; Pérez Castillo, I.; Skantzos, N. S.; Hatchett, J. P. L.; Wemmenhove, B.) Replicated transfer matrix analysis of Ising spin models on 'small world' lattices. (English summary) **2005f:82019**
Nishino, Akinori (*with* Deguchi, Tetsuo) Completeness of Bethe ansatz for 1D Hubbard model with AB-flux through combinatorial formulas and exact enumeration of eigenstates. (English summary) **2005b:82020**
Nobre, Fernando D. (*with* Tsallis, Constantino) Metastable states of the classical inertial infinite-range interaction Heisenberg ferromagnet: role of initial conditions. (English summary) **2005f:82020**
Nussinov, Z. *see* **Biskup, Marek et al., 2005m:82014**
Oh, Choo Hiap *see* **Wu, Chunfeng et al., 2005g:82024**
Palla, Gergely *see* **Farkas, Illés et al., 2005h:82018**
Pan, Feng¹ (*with* Dai, Lian-Rong; Zhang, Dan⁴; Draayer, J. P.) Permutation group approach to the one-dimensional XXX Heisenberg open spin-1/2 chains. (English summary) **2005b:82021**
Peled, Uri N. *see* **Friedland, Shmuel, 2005m:82020**
Pelissetto, Andrea *see* **Caracciolo, Sergio et al., 2005i:82018**
Penney, S. J. (*with* Cumyn, V. K.; Betts, D. D.) A new method for the $S = \frac{1}{2}$ antiferromagnetic Ising model's properties at any temperature and any magnetic field on the infinite square lattice. (English summary) **2005a:82026**
Pérez Castillo, I. *see* **Nikoletopoulos, T. et al., 2005f:82019**
Perez-Mato, J. M. *see* **Etxebarria, I. et al., 2005k:82010**
Perk, Jacques H. H. *see* **Au-Yang, Helen, 2005b:82015**
Peschel, Ingo Entanglement entropy with interface defects. (English summary) **2005m:82027**
Picco, Marco *see* **Richard, Jean-François et al., 2005c:82020**
Pinson, Haru Rotational invariance and discrete analyticity in the 2d dimer model. (English summary) **2005f:82021**
Pirogov, S. A. *see* **Dinaburg, E. I. et al., 2005h:82017**
Pluchino, A. (*with* Latora, Vito; Rapisarda, Andrea) Dynamics and thermodynamics of a model with long-range interactions. (English summary)
Pogorelov, Yu. G. *see* **Viana Lopes, J. et al., 2005j:82018**
Pronko, A. G. *see* **Colomo, F., 2005d:82018**
Pruessner, Gunnar Exact solution of the totally asymmetric Oslo model. (English summary) **2005g:82023**
Pulé, Joseph V. *see* **Contucci, Pierluigi et al., 2005b:82017**
Pyatov, P. N. Raise and peel models of fluctuating interfaces and combinatorics of Pascal's hexagon. (English summary) **2005m:82028**
Ragoucy, É. *see* **Arnaudon, Daniel et al., 2005j:82009**
Rapisarda, Andrea *see* **Pluchino, A. et al.**
Razumov, A. V. (*with* Stroganov, Yu. G.) Combinatorial nature of the ground-state vector of the O(1) loop model. (Russian. Russian summary) **2005f:82022**
Redig, Frank *see* **Dinaburg, E. I. et al., 2005h:82017**
Refael, G. (*with* Moore, Joel E.) Entanglement entropy of random quantum critical points in one dimension. (English summary) **2005j:82016**
Richard, Jean-François (*with* Jacobsen, Jesper Lykke; Picco, Marco) Self-duality for coupled Potts models on the triangular lattice. (English summary) **2005c:82020**
Richter, Johannes *see* **Derzhko, Oleg et al., 2005f:82015**
Rodríguez, Miguel Angel² *see* **Finkel, F. et al., 2005c:82016** *and* **Enciso, A. et al., 2005j:82011**
Rosenau, Philip Hamiltonian dynamics of dense chains and lattices: or how to correct the continuum. (English summary) **2005a:82027**
Rozikov, Utkir A. On q-component models on Cayley tree: contour method. (English summary) **2005m:82029**
— *see also* **Mukhamedov, Farrukh, 2005e:82017**
Rubin, Pavel (*with* Sherman, A. V.) Magnetic properties of the two-dimensional Heisenberg model on a triangular lattice. (English summary) **2005h:82024**
Rybko, A. N. *see* **Dinaburg, E. I. et al., 2005h:82017**
Sakai, Kazumitsu *see* **Kato, Go et al., 2005f:82017**
Salas, Jesús *see* **Jacobsen, Jesper Lykke et al., 2005g:82019**
Sasaki, Ryu *see* **Yang, Wen Li² et al., 2005h:82027**
Sasamoto, Tomohiro *see* **Hieida, Y., 2005g:82018**
Schmidt, Heinz-Jürgen Spin systems with dimerized ground states. (English summary) **2005j:82017**

Schönherr, G. (*with* Schütz, Gunter M.) Exclusion process for particles of arbitrary extension: hydrodynamic limit and algebraic properties. (English summary) **2005d:82026**
Schoutens, Kareljan *see* **Fendley, Paul et al., 2005i:82019**
Schütz, Gunter M. *see* **Schönherr, G., 2005d:82026**
Seel, Alexander *see* **Göhmann, Frank et al., 2005i:82021** *and* **2005j:82012**
Sen, Parongama *see* **Das, Pratap Kumar**
Sherman, A. V. *see* **Rubin, Pavel, 2005h:82024**
Shi, Lina *see* **He, Jinchun et al., 2005d:82020**
Shiroishi, Masahiro *see* **Kato, Go et al., 2005f:82017**
Shukla, Prabodh Voter dynamics on an Ising ladder: coarsening and persistence. (English summary)
Skantzos, N. S. *see* **Nikoletopoulos, T. et al., 2005f:82019**
Sknepnek, Rastko *see* **Fendler, Bernard et al.**
Skorokhodov, S. L. *see* **Bogolyubskiĭ, A. I.**
Skripnik, V. I. Long-range order in linear ferromagnetic oscillator systems. Strong pair quadratic *n*-*n* potential. (English and Ukrainian summaries) **2005i:82023**
Slavnov, N. A. Probability of the formation of a vacuum in the XXZ spin 1/2 Heisenberg chain. (Russian. Russian summary) **2005f:82023**
— *see also* **Kitanin, N. A. et al., 2005m:82025**
Smirnov, Fedor A. *see* **Boos, Herman E. et al., 2005f:82013**
Sokal, Alan D. *see* **Jacobsen, Jesper Lykke et al., 2005g:82019**
Sondhi, S. L. *see* **Moessner, R. et al., 2005k:82012**
Spitzer, Wolfgang L. *see* **Nachtergaele, Bruno et al., 2005g:82021**
Starr, Shannon *see* **Nachtergaele, Bruno et al., 2005g:82021**
Stroganov, Yu. G. *see* **Razumov, A. V., 2005f:82022**
Sun, Zhou-Zhou *see* **Cao, Junpeng et al., 2005k:82009**
Takahashi, Hidenori *see* **Fujita, Takehisa et al., 2005i:82020**
Takahashi, Minoru Thermodynamics and correlation functions of XXZ chain. (English summary) **2005c:82021**
— *see also* **Kato, Go et al., 2005f:82017**
Takei, Masato *see* **Higuchi, Yasunari, 2005f:82016**
Tanigawa, Yoshio *see* **Kanemitsu, Shigeru et al.**
Tashpulatov, S. M. One-magnon systems in an isotropic non-Heisenberg ferromagnetic impurity model. (Russian. Russian summary) **2005m:82030**
Tchernyshyov, Oleg *see* **Moessner, R. et al., 2005k:82012**
Terras, V. *see* **Kitanin, N. A. et al., 2005m:82025**
Tian, Guang-Shan *see* **Gu, Shi-Jian et al., 2005m:82021**
Tong, Dian Min *see* **Wu, Chunfeng et al., 2005g:82024**
Toral, R. *see* **Viana Lopes, J. et al., 2005j:82018**
Torriani, Hugo H. (*with* Hazewinkel, Michiel) Coherence and uniqueness theorems for averaging processes in statistical mechanics. (English summary) **2005h:82025**
Tsallis, Constantino *see* **Nobre, Fernando D., 2005f:82020**
Ueltschi, Daniel Segregation in the asymmetric Hubbard model. (English summary) **2005e:82018**
Valiant, Paul Linear bounds on the North-East model and higher-dimensional analogs. (English summary) **2005d:82027**
Vallejos, Raúl O. (*with* Anteneodo, Celia) Largest Lyapunov exponent of long-range XY systems. (English summary) **2005c:82022**
Velenik, Yvan *see* **Campanino, Massimo et al., 2005b:82016**
Vezzani, Alessandro (*with* Cassi, Davide; Burioni, Raffaella) Average properties of combinatorial problems and thermodynamics of spin models on graphs. (English summary) **2005h:82026**
Viana Lopes, J. (*with* Pogorelov, Yu. G.; Lopes dos Santos, J. M. B.; Toral, R.) Exact solution of Ising model on a small-world network. (English summary) **2005j:82018**
Vicsek, Tamás *see* **Farkas, Illés et al., 2005h:82018**
Vojta, Thomas *see* **Fendler, Bernard et al.**
Wang, Xiang Rong *see* **Cao, Junpeng et al., 2005k:82009**
Wang, Xiao Guang Entanglement and spin squeezing in the three-qubit transverse Ising model. (English summary) **2005d:82028**
Wang, Yupeng *see* **Cao, Junpeng et al., 2005k:82009**
Wemmenhove, B. *see* **Nikoletopoulos, T. et al., 2005f:82019**
Wilson, David Bruce *see* **Kenyon, Richard W., 2005g:82020**
Winkler, Peter M. *see* **Brightwell, Graham R., 2005c:82014**
Wu, Chunfeng (*with* Chen, Jing-Ling; Tong, Dian Min; Kwek, L. C.; Oh, Choo Hiap) Quantum nonlocality of Heisenberg XX model with site-dependent coupling strength. (English summary) **2005g:82024**
Xie, Zheng-Wei *see* **Li, Qiu-Yan et al., 2005d:82022**
Xin, Tian (*with* Lin, Jia-Tih; Liang, Liu; De-Long, Ren) Entanglement in the XY Heisenberg model. (English summary)
Xu, Cenke (*with* Moore, Joel E.) Reduction of effective dimensionality in lattice models of superconducting arrays and frustrated magnets. (English summary) **2005k:82013**
Yamada, Yuji[1] A family of face models related to Z_N-symmetric vertex model of Belavin. (English summary) **2005e:82019**
Yang, Wen Li[2] (*with* Sasaki, Ryu; Zhang, Yao-Zhong) $\mathbb{Z}_n$ elliptic Gaudin model with open boundaries. (English summary) **2005h:82027**
Yang, Xiao[2] (*with* Fendley, Paul) Non-local spacetime supersymmetry on the lattice. (English summary) **2005e:82020**
Yarotskiĭ, D. A. Perturbations of ground states in weakly interacting quantum spin systems. (English summary) **2005c:82023**
Yin, Sun *see* **Cao, Junpeng et al., 2005k:82009**
Yoshimoto, Masami *see* **Kanemitsu, Shigeru et al.**
Zaburannyi, Oles' *see* **Derzhko, Oleg et al., 2005f:82015**
Zhang, Dan[4] *see* **Pan, Feng[1] et al., 2005b:82021**
Zhang, Yao-Zhong *see* **Yang, Wen Li[2] et al., 2005h:82027**
Zhdanov, R. Z. *see* **Finkel, F. et al., 2005c:82016**
Zinn-Justin, Paul *see* **Jacobsen, Jesper Lykke, 2005e:82014** *and* **Di Francesco, P., 2005m:82017**

Items with secondary classifications in 82B20

Abraham, D. B. (*with* Mustonen, Ville; Wood, A. J.) Solid on solid model for an interface crossing a grain boundary. (English summary) **2005e:82031**
Accardi, Luidgi (*with* Ben Ghorbal, Anis; Obata, Nobuaki) Monotone independence, comb graphs and Bose-Einstein condensation. (English summary) **2005f:81123**
Achlioptas, Dimitris (*with* Molloy, Michael S. O.; Moore, Cristopher; Van Bussel, Frank) Sampling grid colorings with fewer colors. (English summary) (*see* **2005d:68010**)
Agarwal, Abhishek (*with* Rajeev, S. G.) The dilatation operator of $\mathcal{N} = 4$ SYM and classical limits of spin chains and matrix models. (English summary) **2005e:81221**
Albayrak, Erhan (*with* Yigit, Ali) The critical behavior of the mixed spin-1 and spin-2 Ising ferromagnetic system on the Bethe lattice. (English summary) **2005h:82039**
Al'beverio, S. (*with* Fei, Shao Ming) Integrable lattice systems and Markov processes. (English summary) **2005m:82032**
Alcaraz, Francisco C. (*with* Lazo, Matheus J.) Exact solutions of exactly integrable quantum chains by a matrix product ansatz. (English summary) **2005e:82022**
— (*with* Stroganov, Yu. G.) New conjecture for the $SU_q(N)$ Perk-Schultz models. Addendum to: "Free-fermion branches in some quantum spin models" [J. Phys. A **35** (2002), no. 32, 6767–6787; MR1930890 (2003h:82027)]. (English summary) **2005g:82027**
Ambjørn, Jan (*with* Khachatryan, Shahane; Sedrakyan, Ara G.) An integrable model with a non-reducible three particle R-matrix. (English summary) **2005c:82024**
Araki, Huzihiro (*with* Moriya, Hajime) Local thermodynamical stability of fermion lattice systems. (English summary) **2005a:82013**
— Conditional expectations relative to a product state and the corresponding standard potentials. (English summary) **2005f:82007**
Ariosa, D. (*with* Fort, H.) Extended estimator approach for 2×2 games and its mapping to the Ising Hamiltonian. (English summary) **2005m:91029**
Arnaudon, Daniel (*with* Avan, Jean; Crampé, N.; Doikou, Anastasia; Frappat, Luc; Ragoucy, É.) General boundary conditions for the $\mathrm{sl}(\mathcal{N})$ and $\mathrm{sl}(\mathcal{M}|\mathcal{N})$ open spin chains. (English summary) **2005m:82033**
— (*with* Sedrakyan, Ara G.; Sedrakyan, T.) Multi-leg integrable ladder models. (English summary) **2005d:82031**
Arponen, Teijo (*with* Leimkuhler, B.) An efficient geometric integrator for thermostatted anti-/ferromagnetic models. (English summary) **2005h:65095**
Avan, Jean *see* **Arnaudon, Daniel et al., 2005m:82033**
Bach, Volker (*with* Møller, Jacob Schach) Correlation at low temperature. I. Exponential decay. (English summary) **2005a:82009**
Balaska, S. (*with* Demmouche, K.) Correlation functions of the tri-critical 3-state Potts model. (English summary) **2005e:81086**
Bambusi, D. *see* **Ponno, A., 2005k:37160**
Bandyopadhyay, Somshubhro (*with* Lidar, Daniel A.) Entangling capacities of noisy two-qubit Hamiltonians. (English summary) **2005d:81034**
Batchelor, M. T. (*with* Guan, X. W.; Oelkers, N.; Ying, Zu-Jian) Quantum phase diagram of an exactly solved mixed spin ladder. (English summary) **2005g:82030**
Baxter, Rodney J. The six and eight-vertex models revisited. (English summary) **2005g:82031**
Beisert, Niklas (*with* Dippel, Virginia; Staudacher, Matthias) A novel long-range spin chain and planar $\mathcal{N} = 4$ super Yang-Mills. (English summary) **2005g:81297**
— The su(2|3) dynamic spin chain. (English summary) **2005g:81298**
Bellucci, Stefano (*with* Casteill, P.-Y.; Morales, José Francisco; Sochichiu, C.) SL(2)-spin chain and spinning strings on $AdS_5 \times S^5$. (English summary) **2005h:83217**
Ben Ghorbal, Anis *see* **Accardi, Luidgi et al., 2005f:81123**
Biskup, Marek (*with* Chayes, Lincoln; Kivelson, Steven A.) Order by disorder, without order, in a two-dimensional spin system with O(2) symmetry. (English summary) **2005m:82045**
— (*with* Chayes, Lincoln; Kotecký, Roman) A proof of the Gibbs-Thomson formula in the droplet formation regime. (English summary) **2005k:82018**
Bliev, N. K. (*with* Myrzakul, K.; Rahimov, F. K.; Serikbaev, N. S.) On the geometry of Heisenberg ferromagnets. (English, Russian and Kazakh summaries) **2005b:53122**
Bogolyubov, N. M. Spinor Bose condensate and the su(1, 1) Richardson model. (Russian. English and Russian summaries) **2005m:82034**
Boos, Herman E. (*with* Korepin, Vladimir; Smirnov, Fedor A.) New formulae for solutions of quantum Knizhnik-Zamolodchikov equations on level-4. (English summary) **2005e:82024**
Boukraa, S. *see* **Zenine, N. et al., 2005e:82038**
Bovier, Anton (*with* Külske, Christof) Coarse-graining techniques for (random) Kac models. (English summary) **2005m:82067**
Braides, Andrea (*with* Francfort, Gilles A.) Bounds on the effective behaviour of a square conducting lattice. (English summary) **2005c:35018**
Brak, Richard (*with* Essam, J. W.) Asymmetric exclusion model and weighted lattice paths. (English summary) **2005f:82040**
Brightwell, Graham R. (*with* Winkler, Peter M.) Graph homomorphisms and long range action. (English summary) **2005c:05076**
Camia, Federico (*with* Newman, Charles M.) The percolation transition in the zero-temperature Domany model. (English summary) **2005a:82032**
Cao, Junpeng (*with* Lin, Hai-Qing; Shi, Kang-Jie; Wang, Yupeng) Exact solution of XXZ spin chain with unparallel boundary fields. (English summary) **2005f:82027**
Cao, Min (*with* Zhu, Shi-Qun) Thermal entanglement between alternate qubits of a four-qubit Heisenberg XX chain in a magnetic field. (English summary) **2005m:81022**
Caputo, Pietro (*with* Martinelli, Fabio) Relaxation time of anisotropic simple exclusion processes and quantum Heisenberg models. (English summary) **2005b:82009**
Caracciolo, Sergio (*with* Sportiello, Andrea) General duality for abelian-group-valued statistical-mechanics models. (English summary) **2005i:82006**
Cardy, John Conformal invariance in percolation, self-avoiding walks, and related problems. (English summary) **2005e:82035**
Casartelli, Mario (*with* Dall'Asta, Luca; Rastelli, Enrico; Regina, Sofia) Metric features of a dipolar model. (English summary) **2005g:82038**
Casteill, P.-Y. *see* **Bellucci, Stefano et al., 2005h:83217**
Chang, Shu-Chiuan (*with* Jacobsen, Jesper Lykke; Salas, Jesús; Shrock, Robert) Exact Potts model partition functions for strips of the triangular lattice. (English summary) **2005b:82022**
Chayes, Lincoln *see* **Biskup, Marek et al., 2005k:82018** *and* **2005m:82045**

Chen, Bin[5] (*with* Wang, Xiao-Jun; Wu, Yong Shi[1]) Open spin chain and open spinning string. (English summary) **2005b:81135**

Clusel, Maxime (*with* Fortin, Jean-Yves) 1D action and partition function for the 2D Ising model with a boundary magnetic field. (English summary) **2005m:82036**

Couronné, Olivier (*with* Messikh, Reda Jürg) Surface order large deviations for 2D FK-percolation and Potts models. (English summary) **2005e:60058**

Crampé, N. *see* **Arnaudon, Daniel et al., 2005m:82033**

Cuesta, José A. (*with* Sánchez, Angel) General non-existence theorem for phase transitions in one-dimensional systems with short range interactions, and physical examples of such transitions. (English summary) **2005c:82032**

Dall'Asta, Luca *see* **Casartelli, Mario et al., 2005g:82038**

Deguchi, Tetsuo The sl_2 loop algebra symmetry of the twisted transfer matrix of the six-vertex model at roots of unity. (English summary) **2005i:82024**

Delfino, Gesualdo (*with* Grinza, Paolo) Universal ratios along a line of critical points. The Ashkin-Teller model. (English summary) **2005c:82035**

De Lima, Bernardo N. B. (*with* Procacci, Aldo) A note on anisotropic percolation. (English summary) **2005k:82039**

De Masi, Anna Spin systems with long range interactions. **2005e:82032**

Demmouche, K. *see* **Balaska, S., 2005e:81086**

Dermoune, Azzouz (*with* Heinrich, Philippe) A small step towards the hydrodynamic limit of a colored disordered lattice gas. (English and French summaries) **2005h:60294**

Derrida, Bernard Statistical properties of genealogical trees. (English summary)

DeWolfe, Oliver (*with* Mann, Nelia) Integrable open spin chains in defect conformal field theory. (English summary) **2005h:81323**

Ding, Shi Jin (*with* Guo, Bo Ling) Smooth solution to the 1-dimensional spin equations of antiferromagnets. (English summary) **2005m:82159**

Dippel, Virginia *see* **Beisert, Niklas et al., 2005g:81297**

Dobrovolny, Christophe (*with* Laanait, L.; Ruiz, Jean) Surface transitions of the semi-infinite Potts model. II. The low bulk temperature regime. (English summary) **2005e:82033**

Doikou, Anastasia *see* **Arnaudon, Daniel et al., 2005m:82033**

Dorey, Patrick (*with* Pocklington, Andrew; Tateo, Roberto) Integrable aspects of the scaling q-state Potts models. I. Bound states and bootstrap closure. (English summary) **2005a:82028**

— (*with* Pocklington, Andrew; Tateo, Roberto) Integrable aspects of the scaling q-state Potts models. II. Finite-size effects. (English summary) **2005a:82029**

— (*with* Fioravanti, Davide; Rim, Chaiho; Tateo, Roberto) Integrable quantum field theory with boundaries: the exact g-function. (English summary) **2005d:81177**

Dorlas, Teunis C. (*with* Skripnik, V. I.) Two order parameters in quantum XZ spin models with Gibbsian ground states. (English summary) **2005e:82009**

Doyon, Benjamin Form factors of Ising spin and disorder fields on the Poincaré disc. (English summary) **2005h:81244**

Duplantier, Bertrand Conformal spiral multifractals. (English summary) **2005g:82041**

Ekiz, Cesur Phase diagrams of the Ising model on the two-fold Cayley tree: phase transition through doubling bifurcation. (English summary) **2005c:82033**

Elgamal, A. *see* **Martin, Paul Purdon, 2005e:05157**

van Enter, Aernout C. D. (*with* Verbitskiĭ, E. A.) On the variational principle for generalized Gibbs measures. (English summary) **2005h:82003**

Escobar, C. Ourivio *see* **Santos, L. F. et al., 2005a:81033**

Essam, J. W. *see* **Brak, Richard, 2005f:82040**

Fabricius, Klaus (*with* McCoy, Barry M.) Functional equations and fusion matrices for the eight vertex model. (English summary) **2005j:82020**

Fannes, Mark (*with* Haegeman, Bart; Mosonyi, M.) Entropy growth of shift-invariant states on a quantum spin chain. (English summary) **2005a:82015**

Farr, Graham Some results on generalised Whitney functions. (English summary) **2005a:05052**

Federbush, Paul A polymer expansion for the quantum Heisenberg ferromagnet wave function. (English summary) **2005b:82011**

Fei, Shao Ming *see* **Al'beverio, S., 2005m:82032**

Fenz, W. *see* **Omelyan, I. P. et al.** *and* **Errata: "Ising fluids in an external magnetic field: an integral equation approach"**

Fernández, Roberto (*with* Le Ny, Arnaud; Redig, Frank) Restoration of Gibbsianness for projected and FKG renormalized measures. (English summary) **2005a:60076**

Feverati, G. (*with* Pearce, Paul A.; Ravanini, Francesco) Excited boundary TBA in the tricritical Ising model. (English summary) **2005h:82031**

Fioravanti, Davide *see* **Dorey, Patrick et al., 2005d:81177**

Foda, Omar (*with* Preston, Ian) On the correlation functions of the domain wall six-vertex model. (English summary) **2005k:82014**

Folk, Reinhard *see* **Omelyan, I. P. et al.** *and* **Errata: "Ising fluids in an external magnetic field: an integral equation approach"**

Fort, H. *see* **Ariosa, D., 2005m:91029**

Fortin, Jean-Yves *see* **Clusel, Maxime, 2005m:82036**

Francfort, Gilles A. *see* **Braides, Andrea, 2005c:35018**

Frappat, Luc *see* **Arnaudon, Daniel et al., 2005m:82033**

Friedli, Sacha (*with* Pfister, Charles E.) On the singularity of the free energy at a first order phase transition. (English summary) **2005g:82039**

Fukui, Takahiro *see* **Yamada, Hiroki, 2005a:82049**

Galleas, W. (*with* Martins, Márcio José) R-matrices and spectrum of vertex models based on superalgebras. (English summary) **2005k:82015**

Galvin, David (*with* Tetali, Prasad) On weighted graph homomorphisms. (English summary) **2005c:05015**

— (*with* Kahn, Jeff) On phase transition in the hard-core model on $\mathbb{Z}^d$. (English summary) **2005c:82034**

Garrahan, Juan P. *see* **Whitelam, Stephen, 2005j:82028**

von Gehlen, G. (*with* Pakulyak, S. Z.; Sergeev, Sergei M.) Theta-function parametrization and fusion for 3D integrable Boltzmann weights. (English summary) **2005c:82025**

Giampaolo, S. M. *see* **de Pasquale, F.**

de Gier, Jan (*with* Pyatov, P. N.) Bethe ansatz for the Temperley-Lieb loop model with open boundaries. (English summary) **2005e:82025**

Goh, Kwang-Il *see* **Lee, Deok-Sun et al., 2005e:82043**

Göhmann, Frank (*with* Seel, Alexander) A note on the Bethe ansatz solution of the supersymmetric t-J model. (English summary)

Goremykin, O. V. *see* **Tsyganov, Andreĭ Vladimirovich[1], 2005c:81088**

Gould, Mark D. *see* **Yang, Wen Li[2] et al., 2005e:82030**

Grinza, Paolo *see* **Delfino, Gesualdo, 2005c:82035**

Guan, X. W. *see* **Batchelor, M. T. et al., 2005g:82030**

Guionnet, Alice First order asymptotics of matrix integrals; a rigorous approach towards the understanding of matrix models. (English summary) **2005c:82043**

Guo, Bo Ling *see* **Ding, Shi Jin, 2005m:82159**

Haegeman, Bart *see* **Fannes, Mark et al., 2005a:82015**

Häggström, Olle Is the fuzzy Potts model Gibbsian? (English and French summaries) **2005f:82049**

Hassani, Saoud *see* **Zenine, N. et al., 2005e:82038**

Heinrich, Philippe *see* **Dermoune, Azzouz, 2005h:60294**

Hernández, Rafael (*with* López, Esperanza) The SU(3) spin chain sigma model and string theory. (English summary) **2005b:81145**

Hietarinta, Jarmo A new two-dimensional lattice model that is 'consistent around a cube'. (English summary) **2005b:82023**

Hilgert, Joachim (*with* Mayer, Dieter H.) The dynamical zeta function and transfer operators for the Kac-Baker model. **2005m:37020**

Homma, Makoto (*with* Itoi, Chigaku) Ferromagnetic domain wall and spiral ground states in one-dimensional deformed flat-band Hubbard model. (English summary) **2005h:82004**

Israel, R. B. Some generic results in mathematical physics. (English summary) **2005g:82005**

Itoi, Chigaku *see* **Homma, Makoto, 2005h:82004**

Jacobsen, Jesper Lykke *see* **Chang, Shu-Chiuan et al., 2005b:82022**

Janke, Wolfhard (*with* Schakel, Adriaan M. J.) Geometrical vs. Fortuin-Kasteleyn clusters in the two-dimensional q-state Potts model. (English summary) **2005e:82037**

Janse van Rensburg, E. J. Inflating square and rectangular lattice vesicles. (English summary) **2005e:82042**

Jin, Xian'an (*with* Zhang, Fu Ji) Jones polynomials and their zeros for a family of links. (English summary) **2005g:57031**

Johansson, Kurt The arctic circle boundary and the Airy process. (English summary) **2005k:60304**

Kahn, Jeff *see* **Galvin, David, 2005c:82034**

Kahng, Byungnam *see* **Lee, Deok-Sun et al., 2005e:82043**

Kauffman, Louis H. (*with* Thomas, Robin) Temperley-Lieb algebras and the four-color theorem. (English summary) **2005e:05049**

Kazakov, Vladimir Aleksandrovich[1] (*with* Zarembo, Konstantin) Classical/quantum integrability in non-compact sector of AdS/CFT. (English summary) **2005h:81294**

Khachatryan, Shahane *see* **Ambjørn, Jan et al., 2005c:82024**

Khamraev, Murod (*with* Mukhamedov, Farrukh; Rozikov, Utkir A.) On the uniqueness of Gibbs measures for p-adic nonhomogeneous λ-model on the Cayley tree. (English summary) **2005h:82038**

Kim, Doochul *see* **Lee, Deok-Sun et al., 2005e:82043**

Kim, Seung-Yeon Yang-Lee zeros of the antiferromagnetic Ising model. (English summary) **2005i:82029**

Kirch, Marc (*with* Manashov, A. N.) Noncompact $SL(2,\mathbb{R})$ spin chain. (English summary) **2005h:82032**

Kitaev, S. (*with* Mansour, Toufik) The problem of the pawns. (English summary) **2005b:05017**

Kitanin, N. A. (*with* Maillet, J. M.; Slavnov, N. A.; Terras, V.) Correlation functions of the XXZ spin-$\frac{1}{2}$ Heisenberg chain: recent advances. (English summary) **2005g:82032**

Kivelson, Steven A. *see* **Biskup, Marek et al., 2005m:82045**

Kondrat'ev, Yu. G. (*with* Kozitskiĭ, Yu. V.) Quantum stabilization and decay of correlations in anharmonic crystals. (English summary) **2005a:82018**

Korepin, Vladimir *see* **Boos, Herman E. et al., 2005e:82024**

Korff, Christian Auxiliary matrices for the six-vertex model at $q^N = 1$. II. Bethe roots, complete strings and the Drinfeld polynomial. (English summary) **2005d:82034**

— Auxiliary matrices for the six-vertex model and the algebraic Bethe ansatz. (English summary) **2005d:82033**

Kotecký, Roman *see* **Biskup, Marek et al., 2005k:82018**

Kozitskiĭ, Yu. V. *see* **Kondrat'ev, Yu. G., 2005a:82018**

Kristjansen, Charlotte (*with* Månsson, T.) The circular, elliptic three-spin string from the SU(3) spin chain. (English summary) **2005d:81292**

Kruczenski, Martin (*with* Ryzhov, Anton V.; Tseytlin, A. A.) Large spin limit of $AdS_5 \times S^5$ string theory and low energy expansion of ferromagnetic spin chains. (English summary) **2005f:81192**

— Spin chains and string theory. (English summary) **2005h:81298**

Külske, Christof (*with* Le Ny, Arnaud; Redig, Frank) Relative entropy and variational properties of generalized Gibbsian measures. (English summary) **2005b:60130**

— Regularity properties of potentials for joint measures of random spin systems. (English summary) **2005m:82071**

— How non-Gibbsianness helps a metastable Morita minimizer to provide a stable free energy. (English summary) **2005h:82063**

— *see also* **Bovier, Anton, 2005m:82067**

Küneth, T. Large deviations for random fields on $\mathbf{Z}^d$ with unbounded interaction. (English summary) **2005i:60044**

Kunz, Hervé *see* **Wu, F. Y., 2005e:82028**

Kurak, V. (*with* Lima-Santos, A.) $sl(2|1)^{(2)}$ Gaudin magnet and its associated Knizhnik-Zamolodchikov equation. (English summary) **2005i:82026**

Laanait, L. *see* **Dobrovolny, Christophe et al., 2005e:82033**

Lazo, Matheus J. *see* **Alcaraz, Francisco C., 2005e:82022**

Lee, Deok-Sun (*with* Goh, Kwang-Il; Kahng, Byungnam; Kim, Doochul) Evolution of scale-free random graphs: Potts model formulation. (English summary) **2005e:82043**

Leimkuhler, B. *see* **Arponen, Teijo, 2005h:65095**

Le Ny, Arnaud *see* **Fernández, Roberto et al., 2005a:60076** *and* **Külske, Christof et al., 2005b:60130**

Li, Guang-Liang (*with* Shi, Kang-Jie; Yue, Rui-Hong) Nested Bethe ansatz for the B_N

vertex model with open boundary conditions. (English summary) **2005h:82034**
Li, You Quan[1] *see* **Shik, H. Y. et al., 2005d:82036**
Lidar, Daniel A. *see* **Bandyopadhyay, Somshubhro, 2005d:81034**
Lima-Santos, A. *see* **Kurak, V., 2005i:82026**
Lin, Hai-Qing *see* **Shik, H. Y. et al., 2005d:82036** *and* **Cao, Junpeng et al., 2005f:82027**
Liu, Tongqi *see* **Yeo, Ye et al., 2005j:81044**
Liu, Xian Gao Partial regularity for the Landau-Lifshitz system. (English summary) **2005a:58025**
Loebl, Martin A discrete non-Pfaffian approach to the Ising problem. (English summary) **2005k:05066**
López, Esperanza *see* **Hernández, Rafael, 2005b:81145**
Lu, Yu-En *see* **Yeo, Ye et al., 2005j:81044**
Maes, Christian New trends in interacting particle systems. (English summary)
Maillard, Jean-Marie[1] *see* **Zenine, N. et al., 2005e:82038**
Maillet, J. M. *see* **Kitanin, N. A. et al., 2005g:82032**
Malyshev, K. L. Functional integration with "automorphic" boundary conditions and correlators of Z-components of spins in the XY and XX Heisenberg chains. (English summary) **2005e:82011**
Manashov, A. N. *see* **Kirch, Marc, 2005h:82032**
Mann, Nelia *see* **DeWolfe, Oliver, 2005h:81323**
Mansour, Toufik *see* **Kitaev, S., 2005b:05017**
Månsson, T. *see* **Kristjansen, Charlotte, 2005d:81292**
Martin, Paul Purdon (*with* Elgamal, A.) Ramified partition algebras. (English summary) **2005e:05157**
Martinelli, Fabio (*with* Sinclair, Alistair; Weitz, Dror) Glauber dynamics on trees: boundary conditions and mixing time. (English summary) **2005j:82052**
— *see also* **Caputo, Pietro, 2005b:82009**
Martins, Márcio José *see* **Galleas, W., 2005k:82015**
Matsui, Taku (*with* Ogata, Yoshiko) Variational principle for non-equilibrium steady states of the XX model. (English summary) **2005g:82080**
Mattera, Massimiliano Annihilating random walks and perfect matchings of planar graphs. (English summary) **2005d:60074**
Mayer, Dieter H. *see* **Hilgert, Joachim, 2005m:37020**
McCoy, Barry M. *see* **Fabricius, Klaus, 2005j:82020**
Messikh, Reda Jürg *see* **Couronné, Olivier, 2005e:60058**
Mirza, Behrouz Determinant of the Potts model transfer matrix and the critical point. (English summary) **2005j:82024**
Møller, Jacob Schach *see* **Bach, Volker, 2005a:82009**
Molloy, Michael S. O. The Glauber dynamics on colorings of a graph with high girth and maximum degree. (English summary) **2005e:68256**
— *see also* **Achlioptas, Dimitris et al., (2005d:68010)**
Moore, Cristopher *see* **Achlioptas, Dimitris et al., (2005d:68010)**
Morales, José Francisco *see* **Bellucci, Stefano et al., 2005h:83217**
Moriya, Hajime *see* **Araki, Huzihiro, 2005a:82013**
Mosonyi, M. *see* **Fannes, Mark et al., 2005a:82015**
Mryglod, I. M. *see* **Omelyan, I. P. et al.** *and* **Errata: "Ising fluids in an external magnetic field: an integral equation approach"**
Mukhamedov, Farrukh On a factor associated with the unordered phase of λ-model on a Cayley tree. (English summary) **2005d:82013**
— *see also* **Khamraev, Murod et al., 2005h:82038**
Musso, Fabio (*with* Petrera, Matteo; Ragnisco, Orlando) Algebraic extensions of Gaudin models. (English summary) **2005h:37127**
— (*with* Petrera, Matteo; Ragnisco, Orlando; Satta, Giovanni) Gaudin models with $\mathcal{U}_q(\mathrm{osp}(1|2))$ symmetry. (English summary) **2005m:82041**
Mustonen, Ville *see* **Abraham, D. B. et al., 2005e:82031**
Myrzakul, K. *see* **Bliev, N. K. et al., 2005b:53122**
Nagahata, Yukio Regularity of the diffusion coefficient matrix for the lattice gas with energy. (English and French summaries) **2005k:60305**
Narnhofer, Heide Quantum K-systems and their abelian models. (English summary) **2005m:81143**
Nepomechie, Rafael I. (*with* Ravanini, Francesco) Completeness of the Bethe ansatz solution of the open XXZ chain with nondiagonal boundary terms. (English summary) **2005c:82027**
— Bethe ansatz solution of the open XXZ chain with nondiagonal boundary terms. (English summary) **2005e:82027**
— (*with* Ravanini, Francesco) Addendum to: "Completeness of the Bethe ansatz solution of the open XXZ chain with nondiagonal boundary terms" [J. Phys. A **36** (2003), no. 45, 11391–11401; MR2025045 (2005c:82027)]. **2005c:82028**
Newman, Charles M. *see* **Camia, Federico, 2005a:82032**
Niss, Martin History of the Lenz-Ising model 1920–1950: from ferromagnetic to cooperative phenomena. (English summary) **2005k:82001**
Obata, Nobuaki *see* **Accardi, Luidgi et al., 2005f:81123**
Oelkers, N. *see* **Batchelor, M. T. et al., 2005g:82030**
Ogata, Yoshiko *see* **Matsui, Taku, 2005g:82080**
Olivieri, Enzo (*with* Vares, Maria Eulália) ★ Large deviations and metastability. **2005k:60007**
Omelyan, I. P. (*with* Mryglod, I. M.; Folk, Reinhard; Fenz, W.) Ising fluids in an external magnetic field: an integral equation approach. (English summary)
— *see also* **Errata: "Ising fluids in an external magnetic field: an integral equation approach"**
Oota, Takeshi Quantum projectors and local operators in lattice integrable models. (English summary) **2005a:82030**
Ovchinnikov, An. A. On the exactly solvable pairing models for bosons. (English summary) **2005j:82025**
Ovchinnikov, S. G. (*with* Val'kov, V. V.) ★ Hubbard operators in the theory of strongly correlated electrons. **2005m:82001**
Pakulyak, S. Z. *see* **von Gehlen, G. et al., 2005c:82025**
Panchenko, Dmitriĭ Anatol'evich (*with* Talagrand, Michel) Bounds for diluted mean-fields spin glass models. (English summary) **2005j:82039**
Pareschi, Lorenzo (*with* Russo, Giovanni) Implicit-explicit Runge-Kutta schemes for stiff systems of differential equations. (English summary) **2005a:65065**
de Pasquale, F. (*with* Giampaolo, S. M.) Expansion around the mean field in quantum magnetic systems. (English summary)
Pastur, Leonid Andreevich On the thermodynamic limit for disordered spin systems. (English summary) (*see* **2005c:46002**)
Pearce, Paul A. *see* **Feverati, G. et al., 2005h:82031**
Peschel, Ingo On the entanglement entropy for an XY spin chain. (English summary) **2005k:82017**
Petrera, Matteo *see* **Musso, Fabio et al., 2005h:37127** *and* **2005m:82041**
Pfister, Charles E. *see* **Friedli, Sacha, 2005g:82039**
Pocklington, Andrew *see* **Dorey, Patrick et al., 2005a:82028** *and* **2005a:82029**
Ponno, A. (*with* Bambusi, D.) Korteweg-de Vries equation and energy sharing in Fermi-Pasta-Ulam. (English summary) **2005k:37160**
Povolotsky, A. M. Bethe ansatz solution of zero-range process with nonuniform stationary state. (English summary) **2005f:82028**
Preston, Ian *see* **Foda, Omar, 2005k:82014**
Procacci, Aldo *see* **De Lima, Bernardo N. B., 2005k:82039**
Pyatov, P. N. *see* **de Gier, Jan, 2005e:82025**
Ragnisco, Orlando *see* **Musso, Fabio et al., 2005h:37127** *and* **2005m:82041**
Ragoucy, É. *see* **Arnaudon, Daniel et al., 2005m:82033**
Rahimov, F. K. *see* **Bliev, N. K. et al., 2005b:53122**
Rajeev, S. G. *see* **Agarwal, Abhishek, 2005e:81221**
Rastelli, Enrico *see* **Casartelli, Mario et al., 2005g:82038**
Ravanini, Francesco *see* **Nepomechie, Rafael I., 2005c:82027; 2005c:82028** *and* **Feverati, G. et al., 2005h:82031**
Rechnitzer, Andrew Haruspicy and anisotropic generating functions. (English summary) **2005a:05012**
Redig, Frank *see* **Fernández, Roberto et al., 2005a:60076** *and* **Külske, Christof et al., 2005b:60130**
Regina, Sofia *see* **Casartelli, Mario et al., 2005g:82038**
Rigolin, G. *see* **Santos, L. F. et al., 2005a:81033**
Rim, Chaiho *see* **Dorey, Patrick et al., 2005d:81177**
Roiban, Radu On spin chains and field theories. (English summary) **2005h:81381**
Rozikov, Utkir A. *see* **Khamraev, Murod et al., 2005h:82038**
Ruiz, Jean *see* **Dobrovolny, Christophe et al., 2005e:82033**
Russo, Giovanni *see* **Pareschi, Lorenzo, 2005a:65065**
Ryang, Shijong Circular and folded multi-spin strings in spin chain sigma models. (Englisn summary) **2005h:81311**
Ryzhov, Anton V. *see* **Kruczenski, Martin et al., 2005f:81192**
Salas, Jesús *see* **Chang, Shu-Chiuan et al., 2005b:82022**
Sánchez, Angel *see* **Cuesta, José A., 2005c:82032**
Santos, L. F. (*with* Rigolin, G.; Escobar, C. Ourivio) Entanglement versus chaos in disordered spin chains. (English summary) **2005a:81033**
Sasaki, Ryu *see* **Yang, Wen Li[2], 2005g:82034**
Satta, Giovanni *see* **Musso, Fabio et al., 2005m:82041**
Schäfer-Nameki, Sakura The algebraic curve of 1-loop planar $\mathcal{N}=4$ SYM. (English summary) **2005k:81328**
Schakel, Adriaan M. J. *see* **Janke, Wolfhard, 2005e:82037**
Sedrakyan, Ara G. *see* **Ambjørn, Jan et al., 2005c:82024** *and* **Arnaudon, Daniel et al., 2005d:82031**
Sedrakyan, T. *see* **Arnaudon, Daniel et al., 2005d:82031**
Seel, Alexander *see* **Göhmann, Frank**
Serban, Didina (*with* Staudacher, Matthias) Planar $\mathcal{N}=4$ gauge theory and the Inozemtsev long range spin chain. (English summary) **2005e:81238**
Sergeev, Sergei M. Functional equations and quantum separation of variables for three-dimensional spin models. (Russian. Russian summary) **2005d:82035**
— Evidence of the existence of a phase transition in three-dimensional lattice models. (Russian. Russian summary) **2005d:82038**
— *see also* **von Gehlen, G. et al., 2005c:82025**
Serikbaev, N. S. *see* **Bliev, N. K. et al., 2005b:53122**
Shi, Kang-Jie *see* **Cao, Junpeng et al., 2005f:82027** *and* **Li, Guang-Liang et al., 2005h:82034**
Shibukawa, Youichi Vertex-face correspondence of Boltzmann weights related to $\mathrm{sl}(m|n)$. (English summary) **2005a:82031**
Shik, H. Y. (*with* Li, You Quan[1]; Lin, Hai-Qing) Constructing soluble quantum spin models. (English summary) **2005d:82036**
Shiroishi, Masahiro *see* **Tsuboi, Zengo**
Shrock, Robert *see* **Chang, Shu-Chiuan et al., 2005b:82022**
Sinclair, Alistair *see* **Martinelli, Fabio et al., 2005j:82052**
Skripnik, V. I. *see* **Dorlas, Teunis C., 2005e:82009**
Slavnov, N. A. *see* **Kitanin, N. A. et al., 2005g:82032**
Smirnov, Fedor A. *see* **Boos, Herman E. et al., 2005e:82024**
Snoek, Michiel *see* **Zhou, Fei[2], 2005k:82008**
Sochichiu, C. *see* **Bellucci, Stefano et al., 2005h:83217**
Sportiello, Andrea *see* **Caracciolo, Sergio, 2005i:82006**
Staudacher, Matthias *see* **Serban, Didina, 2005e:81238** *and* **Beisert, Niklas et al., 2005g:81297**
Stroganov, Yu. G. Quasi-free states in some one-dimensional quantum spin models. (Russian. Russian summary) **2005g:82033**
— *see also* **Alcaraz, Francisco C., 2005g:82027**
Sutherland, Bill ★ Beautiful models. **2005f:82029**
Talagrand, Michel ★ Spin glasses: a challenge for mathematicians. **2005m:82074**
— *see also* **Panchenko, Dmitriĭ Anatol'evich, 2005j:82039**
Tateo, Roberto *see* **Dorey, Patrick et al., 2005a:82028; 2005a:82029** *and* **2005d:81177**
Terras, V. *see* **Kitanin, N. A. et al., 2005g:82032**
Tetali, Prasad *see* **Galvin, David, 2005c:05015**
Thomas, Robin *see* **Kauffman, Louis H., 2005e:05049**
Tian, Guang-Shan Lieb's spin-reflection-positivity method and its applications to strongly correlated electron systems. (English summary) **2005g:82016**
Tóth, Géza[2] Entanglement witnesses in spin models. (English summary) **2005i:81033**
Tseytlin, A. A. *see* **Kruczenski, Martin et al., 2005f:81192**

Tsuboi, Zengo From the quantum Jacobi-Trudi and Giambelli formula to a nonlinear integral equation for thermodynamics of the higher spin Heisenberg model. (English summary) **2005b:82025**
— (*with* Shiroishi, Masahiro) High temperature expansion of the emptiness formation probability for the isotropic Heisenberg chain. (English summary)
Tsyganov, Andreĭ Vladimirovich[1] (*with* Goremykin, O. V.) Integrable systems on so(4) related to XXX spin chains with boundaries. (English summary) **2005c:81088**
Ueltschi, Daniel Cluster expansions and correlation functions. (English and Russian summaries) **2005i:82011**
Utiel, Wagner Algebraic Bethe ansatz for 19-vertex models with reflection conditions. (English summary) **2005h:82036**
Val′kov, V. V. *see* **Ovchinnikov, S. G., 2005m:82001**
Van Bussel, Frank *see* **Achlioptas, Dimitris et al., (2005d:68010)**
Vares, Maria Eulália *see* **Olivieri, Enzo, 2005k:60007**
Verbitskiĭ, E. A. *see* **van Enter, Aernout C. D., 2005h:82003**
Wang, Xiao Guang Entanglement versus energy in quantum spin models. (English summary) **2005h:81078**
Wang, Xiao-Jun *see* **Chen, Bin[5] et al., 2005b:81135**
Wang, Yupeng *see* **Cao, Junpeng et al., 2005f:82027**
Watanabe, Hiroshi[2] Triviality of hierarchical O(N) spin model in four dimensions with large N. (English summary) **2005h:82042**
Weitz, Dror *see* **Martinelli, Fabio et al., 2005j:82052**
Werner, Wendelin Random planar curves and Schramm-Loewner evolutions. (English summary) **2005m:60020**
Whitelam, Stephen (*with* Garrahan, Juan P.) Facilitated spin models in one dimension: a real-space renormalization group study. (English summary) **2005j:82028**
Winkler, Peter M. *see* **Brightwell, Graham R., 2005c:05076**
Wood, A. J. *see* **Abraham, D. B. et al., 2005e:82031**
Wu, F. Y. (*with* Kunz, Hervé) The odd eight-vertex model. (English summary) **2005e:82028**
Wu, Li Ming[1] Estimate of spectral gap for continuous gas. (English and French summaries) **2005e:82007**
Wu, Yong Shi[1] *see* **Chen, Bin[5] et al., 2005b:81135**
Yamada, Hiroki (*with* Fukui, Takahiro) Random hopping fermions on bipartite lattices: density of states, inverse participation ratios, and their correlations in a strong disorder regime. (English summary) **2005a:82049**
Yang, Qi-Zhong *see* **Yeo, Ye et al., 2005j:81044**
Yang, Wen Li[2] (*with* Sasaki, Ryu) Solution of the dual reflection equation for $A_{n-1}^{(1)}$ solid-on-solid model. (English summary) **2005g:82034**
— (*with* Zhang, Yao-Zhong; Gould, Mark D.) Exact solution of the XXZ Gaudin model with generic open boundaries. (English summary) **2005e:82030**
Yarotskiĭ, D. A. Scattering of quasi-particle excitations in weakly coupled stochastic lattice spin systems. (English summary) **2005i:82035**
Yeo, Ye (*with* Liu, Tongqi; Lu, Yu-En; Yang, Qi-Zhong) Quantum teleportation via a two-qubit Heisenberg XY chain—effects of anisotropy and magnetic field. (English summary) **2005j:81044**
Yigit, Ali *see* **Albayrak, Erhan, 2005h:82039**
Ying, Zu-Jian *see* **Batchelor, M. T. et al., 2005g:82030**
Yue, Rui-Hong *see* **Li, Guang-Liang et al., 2005h:82034**
Zarembo, Konstantin *see* **Kazakov, Vladimir Aleksandrovich[1], 2005h:81294**
Zenine, N. (*with* Boukraa, S.; Hassani, Saoud; Maillard, Jean-Marie[1]) The Fuchsian differential equation of the square lattice Ising model $\chi^{(3)}$ susceptibility. (English summary) **2005e:82038**
Zhang, Fu Ji *see* **Jin, Xian'an, 2005g:57031**
Zhang, Yao-Zhong *see* **Yang, Wen Li[2] et al., 2005e:82030**
Zhou, Fei[2] (*with* Snoek, Michiel) Spin singlet Mott states and evidence for spin singlet quantum condensates of spin-one bosons in lattices. (English summary) **2005k:82008**
Zhu, Shi-Qun *see* **Cao, Min, 2005m:81022**
Zinov′ev, Yu. M. L-function and Ising model. (English summary) **2005j:82026**

Items listed otherwise than by author

Errata:
"Ising fluids in an external magnetic field: an integral equation approach" Publisher's note: "Ising fluids in an external magnetic field: an integral equation approach" [Phys. Rev. E (3) **69** (2004), no. 6, 061506, 12 pp.; MR2096490] by I. P. Omelyan, I. M. Mryglod, R. Folk and W. Fenz.

82B21 Continuum models (systems of particles, etc.)

Aqua, J.-N. (*with* Cornu, F.) Density profiles in a quantum Coulomb fluid near a hard wall. (English summary) **2005f:82024**
Bernal, Arturo (*with* Corgini, M.; Sankovich, D. P.) Nonideal Bose gases: correlation inequalities and Bose condensation. (Russian. Russian summary) **2005g:82025**
Caillol, Jean-Michel Sine-Gordon theory for the equation of state of classical hard-core Coulomb systems. III. Loopwise expansion. (English summary) **2005d:82029**
Cancrini, Nicoletta (*with* Tremoulet, Christel) Comparison of finite volume canonical and grand canonical Gibbs measures: the continuous case. (English summary) **2005h:82028**
Corgini, M. *see* **Bernal, Arturo et al., 2005g:82025**
Cornu, F. *see* **Aqua, J.-N., 2005f:82024**
Galla, Tobias Statistical mechanics of dilute batch minority games with random external information. (English summary) **2005h:82029**
Hauksson, Bergthór (*with* Yngvason, Jakob) Asymptotic exactness of magnetic Thomas-Fermi theory at nonzero temperature. (English summary) **2005f:82025**
Kondrat′ev, Yu. G. (*with* Kuna, Tobias; Kutoviĭ, Oleksandr V.) On relations between a priori bounds for measures on configuration spaces. (English summary) **2005g:82026**
— (*with* Kutoviĭ, Oleksandr V.; Pecherskiĭ, E. A.) Existence of Gibbs state for a non-ideal gas in $\mathbb{R}^D$: the case of a pair, long-range interaction. (English summary) **2005e:82021**
— (*with* Kutoviĭ, Oleksandr V.) Existence and some properties of Gibbs measures in the continuum. (English summary) **2005m:82031**
Kuna, Tobias (*with* Silva, José Luis) Ergodicity of canonical Gibbs measures with respect to the diffeomorphism group. (English summary) **2005j:82019**
— *see also* **Kondrat′ev, Yu. G. et al., 2005g:82026**
Kutoviĭ, Oleksandr V. (*with* Rebenko, A. L.) Existence of Gibbs state for continuous gas with many-body interaction. (English summary) **2005f:82026**
— *see also* **Kondrat′ev, Yu. G. et al., 2005e:82021**; **2005g:82026** *and* **2005m:82031**
Pecherskiĭ, E. A. *see* **Kondrat′ev, Yu. G. et al., 2005e:82021**
Rebenko, A. L. *see* **Kutoviĭ, Oleksandr V., 2005f:82026**
Sankovich, D. P. *see* **Bernal, Arturo et al., 2005g:82025**
Silva, José Luis *see* **Kuna, Tobias, 2005j:82019**
Tremoulet, Christel *see* **Cancrini, Nicoletta, 2005h:82028**
Yngvason, Jakob *see* **Hauksson, Bergthór, 2005f:82025**

Items with secondary classifications in 82B21

Al′beverio, S. (*with* Gottschalk, Hanno; Yoshida, Minoru W.) Systems of classical particles in the grand canonical ensemble, scaling limits and quantum field theory. (English summary) **2005k:81157**
Andersen, Jens O. Theory of the weakly interacting Bose gas. (English summary) **2005j:82006**
Ben Abdallah, Naoufel (*with* Tayeb, M. Lazhar) Diffusion approximation for the one dimensional Boltzmann-Poisson system. (English summary) **2005f:35031**
Bertin, Etienne (*with* Billiot, Jean-Michel; Drouilhet, Rémy) Phase transition in the nearest-neighbor continuum Potts model. (English summary) **2005h:82037**
Billiot, Jean-Michel *see* **Bertin, Etienne et al., 2005h:82037**
Cao, Zhoujian (*with* Li, Haihong[1]; Munakata, Toyonori; He, Dahai; Hu, Gang[1]) Exact statistics of three-hard-disk system in two-dimensional space. (English summary) **2005c:82009**
Cornean, Horia D. Magnetic response in ideal quantum gases: the thermodynamic limit. (English summary) **2005g:82008**
Drouilhet, Rémy *see* **Bertin, Etienne et al., 2005h:82037**
Gottschalk, Hanno *see* **Al′beverio, S. et al., 2005k:81157**
He, Dahai *see* **Cao, Zhoujian et al., 2005c:82009**
Hu, Gang[1] *see* **Cao, Zhoujian et al., 2005c:82009**
Kondrat′ev, Yu. G. (*with* Kuna, Tobias; Oliveira, Maria João) On the relations between Poissonian white noise analysis and harmonic analysis on configuration spaces. (English summary) **2005f:60142**
Kuna, Tobias *see* **Kondrat′ev, Yu. G. et al., 2005f:60142**
Li, Haihong[1] *see* **Cao, Zhoujian et al., 2005c:82009**
Lieb, Elliott H. (*with* Seiringer, Robert; Yngvason, Jakob) One-dimensional behavior of dilute, trapped Bose gases. (English summary) **2005b:82012**
Mieck, B. Transfer-matrices of coherent state path integrals with the h_4- and su(2)-algebra for many-body systems with contact interactions. (English summary) **2005f:81303**
Munakata, Toyonori *see* **Cao, Zhoujian et al., 2005c:82009**
Oliveira, Maria João *see* **Kondrat′ev, Yu. G. et al., 2005f:60142**
Seiringer, Robert *see* **Lieb, Elliott H. et al., 2005b:82012**
Shchepanyuk, G. V. On the property of the decay of correlations for the totality of quantities that admit cluster expansions. (Ukrainian. English summary) **2005i:82008**
— Improved estimates for the strong mixing coefficient for spatially separated events for limit Gibbs measures corresponding to the equilibrium states of dilute continuous systems of classical statistical mechanics with stable exponentially decreasing pairwise interaction. (Ukrainian. English summary) **2005i:82009**
Sutherland, Bill ★ Beautiful models. **2005f:82029**
Tayeb, M. Lazhar *see* **Ben Abdallah, Naoufel, 2005f:35031**
Wu, Li Ming[1] Estimate of spectral gap for continuous gas. (English and French summaries) **2005e:82007**
Yngvason, Jakob *see* **Lieb, Elliott H. et al., 2005b:82012**
Yoshida, Minoru W. *see* **Al′beverio, S. et al., 2005k:81157**

82B23 Exactly solvable models; Bethe ansatz

Al′beverio, S. (*with* Fei, Shao Ming) Integrable lattice systems and Markov processes. (English summary) **2005m:82032**
Alcaraz, Francisco C. (*with* Stroganov, Yu. G.) Free-fermion energies in the SU(N) Perk-Schultz model. (English summary) **2005g:82028**
— (*with* Lazo, Matheus J.) The Bethe ansatz as a matrix product ansatz. (English summary) **2005d:82030**
— (*with* Lazo, Matheus J.) Exact solutions of exactly integrable quantum chains by a matrix product ansatz. (English summary) **2005e:82022**
— (*with* Stroganov, Yu. G.) New conjecture for the $SU_q(N)$ Perk-Schultz models. Addendum to: "Free-fermion branches in some quantum spin models" [J. Phys. A **35** (2002), no. 32, 6767–6787; MR1930890 (2003h:82027)]. (English summary) **2005g:82027**
Ambjørn, Jan (*with* Khachatryan, Shahane; Sedrakyan, Ara G.) An integrable model with a non-reducible three particle R-matrix. (English summary) **2005c:82024**
Arnaudon, Daniel (*with* Sedrakyan, Ara G.; Sedrakyan, T.) Integrable N-leg ladder models. (English summary) **2005d:82032**
— (*with* Avan, Jean; Crampé, N.; Doikou, Anastasia; Frappat, Luc; Ragoucy, É.) General boundary conditions for the sl($\mathcal{N}$) and sl($\mathcal{M}|\mathcal{N}$) open spin chains. (English summary) **2005m:82033**
— (*with* Sedrakyan, Ara G.; Sedrakyan, T.) Multi-leg integrable ladder models. (English summary) **2005d:82031**
— (*with* Avan, Jean; Crampé, N.; Doikou, Anastasia; Frappat, Luc; Ragoucy, É.) Bethe ansatz equations and exact S matrices for the osp($M|2n$) open super-spin chain. (English summary) **2005e:82023**
Avan, Jean *see* **Arnaudon, Daniel et al., 2005e:82023** *and* **2005m:82033**
Babichenko, A. From S-matrices to the thermodynamic Bethe ansatz. (English summary) **2005g:82029**
Batchelor, M. T. (*with* Guan, X. W.; Oelkers, N.; Ying, Zu-Jian) Quantum phase diagram of an exactly solved mixed spin ladder. (English summary) **2005g:82030**

Baxter, Rodney J. The six and eight-vertex models revisited. (English summary) **2005g:82031**

Bogolyubov, N. M. Spinor Bose condensate and the su(1, 1) Richardson model. (Russian. English and Russian summaries) **2005m:82034**

Boos, Herman E. (*with* Korepin, Vladimir; Smirnov, Fedor A.) New formulae for solutions of quantum Knizhnik-Zamolodchikov equations on level-4. (English summary) **2005e:82024**

Borisov, Lev A. (*with* Mukhin, E. E.) Self-self-dual spaces of polynomials. (English summary) **2005m:82035**

Cao, Junpeng (*with* Lin, Hai-Qing; Shi, Kang-Jie; Wang, Yupeng) Exact solution of *XXZ* spin chain with unparallel boundary fields. (English summary) **2005f:82027**

Chang, Shu-Chiuan (*with* Jacobsen, Jesper Lykke; Salas, Jesús; Shrock, Robert) Exact Potts model partition functions for strips of the triangular lattice. (English summary) **2005b:82022**

Clusel, Maxime (*with* Fortin, Jean-Yves) 1D action and partition function for the 2D Ising model with a boundary magnetic field. (English summary) **2005m:82036**

Crampé, N. *see* **Arnaudon, Daniel et al., 2005e:82023** *and* **2005m:82033**

Deguchi, Tetsuo The sl_2 loop algebra symmetry of the twisted transfer matrix of the six-vertex model at roots of unity. (English summary) **2005i:82024**

Doikou, Anastasia *see* **Arnaudon, Daniel et al., 2005e:82023** *and* **2005m:82033**

Dorey, Patrick (*with* Pocklington, Andrew; Tateo, Roberto) Integrable aspects of the scaling q-state Potts models. I. Bound states and bootstrap closure. (English summary) **2005a:82028**

— (*with* Pocklington, Andrew; Tateo, Roberto) Integrable aspects of the scaling q-state Potts models. II. Finite-size effects. (English summary) **2005a:82029**

Dukelsky, Jorge *see* **Ortiz, Gerardo et al., 2005k:82016**

Enciso, A. (*with* Finkel, F.; González-López, Artemio; Rodríguez, Miguel Angel[2]) Solvable scalar and spin models with near-neighbors interactions. (English summary) **2005h:82030**

Fabricius, Klaus (*with* McCoy, Barry M.) Functional equations and fusion matrices for the eight vertex model. (English summary) **2005j:82020**

Fei, Shao Ming *see* **Al'beverio, S., 2005m:82032**

Feverati, G. (*with* Pearce, Paul A.; Ravanini, Francesco) Excited boundary TBA in the tricritical Ising model. (English summary) **2005h:82031**

Fiala, Jan (*with* Kleban, Peter) Thermodynamics of the Farey fraction spin chain. (English summary) **2005j:82021**

Finkel, F. *see* **Enciso, A. et al., 2005h:82030**

Foda, Omar (*with* Preston, Ian) On the correlation functions of the domain wall six-vertex model. (English summary) **2005k:82014**

Fortin, Jean-Yves *see* **Clusel, Maxime, 2005m:82036**

Frappat, Luc *see* **Arnaudon, Daniel et al., 2005e:82023** *and* **2005m:82033**

Frenkel, Edward Opers on the projective line, flag manifolds and Bethe ansatz. (English and Russian summaries) **2005m:82037**

Galleas, W. (*with* Martins, Márcio José) R-matrices and spectrum of vertex models based on superalgebras. (English summary) **2005k:82015**

von Gehlen, G. (*with* Pakulyak, S. Z.; Sergeev, Sergei M.) The modified tetrahedron equation and its solutions. (English summary) **2005j:82022**

— (*with* Pakulyak, S. Z.; Sergeev, Sergei M.) Theta-function parametrization and fusion for 3D integrable Boltzmann weights. (English summary) **2005c:82025**

de Gier, Jan (*with* Pyatov, P. N.) Bethe ansatz for the Temperley-Lieb loop model with open boundaries. (English summary) **2005e:82025**

— (*with* Nienhuis, Bernard) Brauer loops and the commuting variety. (English summary) **2005m:82038**

Göhmann, Frank (*with* Seel, Alexander) A note on the Bethe ansatz solution of the supersymmetric t-J model. (English summary)

González-López, Artemio *see* **Enciso, A. et al., 2005h:82030**

Gould, Mark D. *see* **Yang, Wen Li[2] et al., 2005e:82030**

Grillo, S. (*with* Montani, H.) Integrable mixing of A_{n-1} type vertex models. (English summary) **2005m:82039**

Guan, X. W. *see* **Batchelor, M. T. et al., 2005g:82030**

Harnad, John (*with* Orlov, A. Yu.) Scalar products of symmetric functions and matrix integrals. (Russian. Russian summary) **2005i:82025**

Hietarinta, Jarmo A new two-dimensional lattice model that is 'consistent around a cube'. (English summary) **2005b:82023**

Jacobsen, Jesper Lykke *see* **Chang, Shu-Chiuan et al., 2005b:82022**

Kato, Go (*with* Wadati, Miki) Bethe ansatz cluster expansion method for quantum integrable particle systems. (English summary) **2005c:82026**

Khachatryan, Shahane *see* **Ambjørn, Jan et al., 2005c:82024**

Kirch, Marc (*with* Manashov, A. N.) Noncompact $SL(2, \mathbb{R})$ spin chain. (English summary) **2005h:82032**

Kitanin, N. A. (*with* Maillet, J. M.; Slavnov, N. A.; Terras, V.) Correlation functions of the XXZ spin-$\frac{1}{2}$ Heisenberg chain: recent advances. (English summary) **2005g:82032**

Kleban, Peter *see* **Fiala, Jan, 2005j:82021**

Korepin, Vladimir *see* **Boos, Herman E. et al., 2005e:82024**

Korff, Christian Auxiliary matrices for the six-vertex model at $q^N = 1$. II. Bethe roots, complete strings and the Drinfeld polynomial. (English summary) **2005d:82034**

— Auxiliary matrices for the six-vertex model and the algebraic Bethe ansatz. (English summary) **2005d:82033**

Koval'skiĭ, A. È. (*with* Pron'ko, G. P.) Baxter Q-operators for an integrable discrete self-trapping chain. (Russian. Russian summary) **2005m:82040**

Kunz, Hervé *see* **Wu, F. Y., 2005e:82028**

Kurak, V. (*with* Lima-Santos, A.) Algebraic Bethe ansatz for the Zamolodchikov-Fateev and Izergin-Korepin models with open boundary conditions. (English summary) **2005h:82033**

— (*with* Lima-Santos, A.) $sl(2|1)^{(2)}$ Gaudin magnet and its associated Knizhnik-Zamolodchikov equation. (English summary) **2005i:82026**

Lazo, Matheus J. *see* **Alcaraz, Francisco C., 2005d:82030** *and* **2005e:82022**

Li, Guang-Liang (*with* Shi, Kang-Jie; Yue, Rui-Hong) The algebraic Bethe ansatz for the osp(2|2) model with open boundary conditions. (English summary) **2005e:82026**

— (*with* Shi, Kang-Jie; Yue, Rui-Hong) Nested Bethe ansatz for the B_N vertex model with open boundary conditions. (English summary) **2005h:82034**

Li, You Quan[1] *see* **Shik, H. Y. et al., 2005d:82036**

Lima-Santos, A. On the Bethe ansatz solution for the Temperley-Lieb correlated electron model. (English summary) **2005j:82023**

— (*with* Malara, R.) $C_n^{(1)}$, $D_n^{(1)}$ and $A_{2n-1}^{(2)}$ reflection K-matrices. (English summary) **2005b:82024**

— *see also* **Kurak, V., 2005h:82033** *and* **2005i:82026**

Lin, Hai-Qing *see* **Shik, H. Y. et al., 2005d:82036** *and* **Cao, Junpeng et al., 2005f:82027**

Maillet, J. M. *see* **Kitanin, N. A. et al., 2005g:82032**

Malara, R. *see* **Lima-Santos, A., 2005b:82024**

Manashov, A. N. *see* **Kirch, Marc, 2005h:82032**

Martins, Márcio José *see* **Ribeiro, G. A. P., 2005i:82027** *and* **Galleas, W., 2005k:82015**

McCoy, Barry M. *see* **Fabricius, Klaus, 2005j:82020**

Mirza, Behrouz Determinant of the Potts model transfer matrix and the critical point. (English summary) **2005j:82024**

Montani, H. *see* **Grillo, S., 2005m:82039**

Mukhin, E. E. *see* **Borisov, Lev A., 2005m:82035**

Musso, Fabio (*with* Petrera, Matteo; Ragnisco, Orlando; Satta, Giovanni) Gaudin models with $\mathcal{U}_q(\mathrm{osp}(1|2))$ symmetry. (English summary) **2005m:82041**

Nepomechie, Rafael I. (*with* Ravanini, Francesco) Completeness of the Bethe ansatz solution of the open XXZ chain with nondiagonal boundary terms. (English summary) **2005c:82027**

— Bethe ansatz solution of the open XXZ chain with nondiagonal boundary terms. (English summary) **2005e:82027**

— (*with* Ravanini, Francesco) Addendum to: "Completeness of the Bethe ansatz solution of the open XXZ chain with nondiagonal boundary terms" [J. Phys. A **36** (2003), no. 45, 11391–11401; MR2025045 (2005c:82027)]. **2005c:82028**

Nienhuis, Bernard *see* **de Gier, Jan, 2005m:82038**

Oelkers, N. *see* **Batchelor, M. T. et al., 2005g:82030**

Oota, Takeshi Quantum projectors and local operators in lattice integrable models. (English summary) **2005a:82030**

Orlov, A. Yu. *see* **Harnad, John, 2005i:82025**

Ortiz, Gerardo (*with* Somma, Rolando; Dukelsky, Jorge; Rombouts, S.) Exactly-solvable models derived from a generalized Gaudin algebra. (English summary) **2005k:82016**

Ovchinnikov, An. A. On the exactly solvable pairing models for bosons. (English summary) **2005j:82025**

Pakulyak, S. Z. *see* **von Gehlen, G. et al., 2005c:82025** *and* **2005j:82022**

Pearce, Paul A. *see* **Feverati, G. et al., 2005h:82031**

Peschel, Ingo On the entanglement entropy for an XY spin chain. (English summary) **2005k:82017**

Petrera, Matteo *see* **Musso, Fabio et al., 2005m:82041**

Pocklington, Andrew *see* **Dorey, Patrick et al., 2005a:82028** *and* **2005a:82029**

Povolotsky, A. M. Bethe ansatz solution of zero-range process with nonuniform stationary state. (English summary) **2005f:82028**

Preston, Ian *see* **Foda, Omar, 2005k:82014**

Pron'ko, G. P. *see* **Koval'skiĭ, A. È., 2005m:82040**

Pyatov, P. N. *see* **de Gier, Jan, 2005e:82025**

Ragnisco, Orlando *see* **Musso, Fabio et al., 2005m:82041**

Ragoucy, É. *see* **Arnaudon, Daniel et al., 2005e:82023** *and* **2005m:82033**

Ravanini, Francesco *see* **Nepomechie, Rafael I., 2005c:82027; 2005c:82028** *and* **Feverati, G. et al., 2005h:82031**

Ribeiro, G. A. P. (*with* Martins, Márcio José) Mixed integrable $SU(N)$ vertex model with arbitrary twists. (English summary) **2005i:82027**

Rodríguez, Miguel Angel[2] *see* **Enciso, A. et al., 2005h:82030**

Rombouts, S. *see* **Ortiz, Gerardo et al., 2005k:82016**

Salas, Jesús *see* **Chang, Shu-Chiuan et al., 2005b:82022**

Sasaki, Ryu *see* **Yang, Wen Li[2], 2005g:82034**

Satta, Giovanni *see* **Musso, Fabio et al., 2005m:82041**

Sedrakyan, Ara G. *see* **Ambjørn, Jan et al., 2005c:82024; Arnaudon, Daniel et al., 2005d:82031** *and* **2005d:82032**

Sedrakyan, T. *see* **Arnaudon, Daniel et al., 2005d:82031** *and* **2005d:82032**

Seel, Alexander *see* **Göhmann, Frank**

Sergeev, Sergei M. Functional equations and quantum separation of variables for three-dimensional spin models. (Russian. Russian summary) **2005d:82035**

— *see also* **von Gehlen, G. et al., 2005c:82025** *and* **2005j:82022**

Shi, Kang-Jie *see* **Li, Guang-Liang et al., 2005e:82026; 2005h:82034** *and* **Cao, Junpeng et al., 2005f:82027**

Shibukawa, Youichi Vertex-face correspondence of Boltzmann weights related to $sl(m|n)$. (English summary) **2005a:82031**

Shik, H. Y. (*with* Li, You Quan[1]; Lin, Hai-Qing) Constructing soluble quantum spin models. (English summary) **2005d:82036**

Shiraishi, Jun'ichi Free field constructions for the elliptic algebra $\mathcal{A}_{q,p}(\widehat{\mathrm{sl}}_2)$ and Baxter's eight-vertex model. (English summary) **2005h:82035**

Shiroishi, Masahiro *see* **Tsuboi, Zengo**

Shrock, Robert *see* **Chang, Shu-Chiuan et al., 2005b:82022**

Slavnov, N. A. *see* **Kitanin, N. A. et al., 2005g:82032**

Smirnov, Fedor A. *see* **Boos, Herman E. et al., 2005e:82024**

Somma, Rolando *see* **Ortiz, Gerardo et al., 2005k:82016**

Stroganov, Yu. G. Quasi-free states in some one-dimensional quantum spin models. (Russian. Russian summary) **2005g:82033**

— *see also* **Alcaraz, Francisco C., 2005g:82027** *and* **2005g:82028**

Sutherland, Bill ★ Beautiful models. **2005f:82029**

Tateo, Roberto *see* **Dorey, Patrick et al., 2005a:82028** *and* **2005a:82029**

Terras, V. *see* **Kitanin, N. A. et al., 2005g:82032**

Tsuboi, Zengo From the quantum Jacobi-Trudi and Giambelli formula to a nonlinear integral equation for thermodynamics of the higher spin Heisenberg model. (English summary) **2005b:82025**

— (*with* Shiroishi, Masahiro) High temperature expansion of the emptiness formation probability for the isotropic Heisenberg chain. (English summary)

Utiel, Wagner Algebraic Bethe ansatz for 19-vertex models with reflection conditions. (English summary) **2005h:82036**
Wadati, Miki *see* **Kato, Go**, **2005c:82026**
Wang, Shi-Kun (*with* Wu, Ke[1]) Seven-vertex solutions of the colored Yang-Baxter equation. (English summary) **2005f:82030**
Wang, Yupeng *see* **Cao, Junpeng et al.**, **2005f:82027**
Woynarovich, F. $O(1)$ contribution of saddle point fluctuations to the free energy of Bethe Ansatz systems. (English summary)
Wu, F. Y. (*with* Kunz, Hervé) The odd eight-vertex model. (English summary) **2005e:82028**
Wu, Ke[1] *see* **Wang, Shi-Kun**, **2005f:82030**
Yamada, Yuji[1] A remark on solutions of reflection equation for the critical Z_N-symmetric vertex model. (English summary) **2005e:82029**
Yang, Wen Li[2] (*with* Sasaki, Ryu) Solution of the dual reflection equation for $A_{n-1}^{(1)}$ solid-on-solid model. (English summary) **2005g:82034**
— (*with* Zhang, Yao-Zhong; Gould, Mark D.) Exact solution of the XXZ Gaudin model with generic open boundaries. (English summary) **2005e:82030**
Ying, Zu-Jian *see* **Batchelor, M. T. et al.**, **2005g:82030**
Yue, Rui-Hong *see* **Li, Guang-Liang et al.**, **2005e:82026** *and* **2005h:82034**
Zhang, Yao-Zhong *see* **Yang, Wen Li[2] et al.**, **2005e:82030**
Zinov′ev, Yu. M. L-function and Ising model. (English summary) **2005j:82026**

Items with secondary classifications in 82B23

Ardonne, Eddy (*with* Fendley, Paul; Fradkin, Eduardo) Topological order and conformal quantum critical points. (English summary) **2005b:81124**
Arnaudon, Daniel (*with* Crampé, N.; Doikou, Anastasia; Frappat, Luc; Ragoucy, É.; Avan, Jean) On osp($M|2n$) integrable open spin chains. (English summary) **2005j:82009**
Arutyunov, Gleb E. (*with* Staudacher, Matthias) Matching higher conserved charges for strings and spins. (English summary) **2005a:81210**
Avan, Jean *see* **Arnaudon, Daniel et al.**, **2005j:82009**
Baxter, Rodney J. The "inversion relation" method for obtaining the free energy of the chiral Potts model. (English summary) **2005g:82017**
Beisert, Niklas The su(2|3) dynamic spin chain. (English summary) **2005g:81298**
Belavin, A. A. (*with* Usmanov, R. A.) The Q-operator and the Drinfel′d equation. (Russian. Russian summary) **2005b:81053**
— (*with* Jimbo, Michio) Central elements of the elliptic Yang-Baxter algebra in roots of unity. (English summary) **2005h:81172**
— Centre of quantum group in roots of unity and the restriction of integrable models. (English summary) **2005d:81201**
Berenstein, David (*with* Cherkis, Sergey A.) Deformations of $\mathcal{N}=4$ SYM and integrable spin chain models. (English summary) **2005h:81352**
Bortz, Michael (*with* Klümper, Andreas) Lattice path integral approach to the one-dimensional Kondo model. (English summary) **2005h:82013**
Bugrīĭ, A. I. (*with* Līsoviĭ, O. O.) The correlation function of the two-dimensional Ising model on a lattice of finite dimensions. II. (Russian. Russian summary) **2005h:82014**
Castro-Alvaredo, Olalla (*with* Fring, Andreas) On vacuum energies and renormalizability in integrable quantum field theories. (English summary) **2005a:81195**
Cheianov, Vadim V. (*with* Zvonarev, M. B.) Zero temperature correlation functions for the impenetrable fermion gas. (English summary) **2005b:82010**
Cherkis, Sergey A. *see* **Berenstein, David**, **2005h:81352**
Chernyakov, Yu. B. Integrable systems obtained by a fusion of points from rational and elliptic Gaudin systems. (Russian. Russian summary) **2005j:37093**
Crampé, N. *see* **Arnaudon, Daniel et al.**, **2005j:82009**
Cuesta, José A. (*with* Sánchez, Angel) General non-existence theorem for phase transitions in one-dimensional systems with short range interactions, and physical examples of such transitions. (English summary) **2005c:82032**
Dai, Lian-Rong *see* **Pan, Feng[1] et al.**, **2005b:82021**
Date, Etsuro (*with* Usami, Kosuke) On an analog of the Onsager algebra of type $D_n^{(1)}$. (English summary) **2005a:17023**
Deguchi, Tetsuo *see* **Nishino, Akinori**, **2005b:82020**
Delfino, Gesualdo Integrable field theory and critical phenomena: the Ising model in a magnetic field. (English summary) **2005g:81271**
— (*with* Niccoli, Giuliano) Form factors of descendant operators in the massive Lee-Yang model. (English summary) **2005m:81196**
Derzhko, Oleg (*with* Richter, Johannes; Krokhmalskii, Taras; Zaburannyi, Oles′) Regularly alternating spin-$\frac{1}{2}$ anisotropic XY chains: the ground-state and thermodynamic properties. (English summary) **2005f:82015**
van Diejen, Jan F. Scattering theory of discrete (pseudo) Laplacians on a Weyl chamber. (English summary) **2005m:58063**
Doikou, Anastasia *see* **Arnaudon, Daniel et al.**, **2005j:82009**
Dorey, Patrick (*with* Suzuki, Junji; Tateo, Roberto) Finite lattice Bethe ansatz systems and the Heun equation. (English summary) **2005c:82010**
Dorlas, Teunis C. (*with* Pulé, Joseph V.) Invariant measures for one-dimensional Anderson localisation. (English summary) **2005h:82057**
Draayer, J. P. *see* **Pan, Feng[1] et al.**, **2005b:82021**
Egorov, B. V. *see* **Karnaukhov, I. N.**, **2005m:82023**
Engquist, Johan Higher conserved charges and integrability for spinning strings in $AdS_5 \times S^5$. (English summary) **2005g:81301**
Fabricius, Klaus (*with* McCoy, Barry M.) New developments in the eight vertex model. (English summary) **2005a:82025**
Fendley, Paul *see* **Ardonne, Eddy et al.**, **2005b:81124**
Finkel, F. (*with* Gómez-Ullate Oteiza, D.; González-López, Artemio; Rodríguez, Miguel Angel[2]; Zhdanov, R. Z.) On the Sutherland spin model of B_N type and its associated spin chain. (English summary) **2005c:82016**
Forrester, Peter J. (*with* Frankel, N. E.; Garoni, T. M.; Witte, N. S.) Painlevé transcendent evaluations of finite system density matrices for 1d impenetrable bosons. (English summary) **2005c:82011**
Fradkin, Eduardo *see* **Ardonne, Eddy et al.**, **2005b:81124**
Frankel, N. E. *see* **Forrester, Peter J. et al.**, **2005c:82011**
Frappat, Luc *see* **Arnaudon, Daniel et al.**, **2005j:82009**
Fring, Andreas *see* **Castro-Alvaredo, Olalla**, **2005a:81195**
Garoni, T. M. *see* **Forrester, Peter J. et al.**, **2005c:82011**
Gómez-Ullate Oteiza, D. *see* **Finkel, F. et al.**, **2005c:82016**
González-López, Artemio *see* **Finkel, F. et al.**, **2005c:82016**
Goremykin, O. V. *see* **Tsyganov, Andreĭ Vladimirovich[1]**, **2005c:81088**
Grosse, Harald (*with* Langmann, Edwin; Paufler, Cornelius) Exact solution of a 1D quantum many-body system with momentum-dependent interactions. (English summary) **2005g:81079**
— (*with* Langmann, Edwin; Paufler, Cornelius) Corrigendum: "Exact solution of a 1D many-body system with momentum-dependent interactions" [J. Phys. A **37** (2004), no. 16, 4579–4592; MR2065946 (2005g:81079)]. **2005g:81080**
Guttmann, Anthony J. *see* **Richard, Christoph**, **2005a:92068**
Hernández, Rafael (*with* López, Esperanza) Spin chain sigma models with fermions. (English summary) **2005i:81162**
Iguchi, Kazumoto (*with* Yamada, Hiroaki[1]) Exactly solvable scale-free network model. (English summary) **2005m:82059**
Inozemtsev, V. I. The eigenvectors of the Heisenberg Hamiltonian with elliptic form of the exchange spin interaction. (English summary) **2005k:82011**
Jacobsen, Jesper Lykke (*with* Zinn-Justin, Paul) Algebraic Bethe ansatz for the FPL[2] model. (English summary) **2005e:82014**
Jimbo, Michio *see* **Belavin, A. A.**, **2005h:81172**
Karnaukhov, I. N. (*with* Egorov, B. V.) Exact solution of the Hubbard model with boundary hoppings and fields. (English summary) **2005m:82023**
Klümper, Andreas *see* **Bortz, Michael**, **2005h:82013**
Korff, Christian Auxiliary matrices on both sides of the equator. (English summary) **2005j:82014**
Krokhmalskii, Taras *see* **Derzhko, Oleg et al.**, **2005f:82015**
Kurak, V. (*with* Lima-Santos, A.) The $A_2^{(2)}$ Gaudin model and its associated Knizhnik-Zamolodchikov equation. (English summary) **2005m:82026**
Langmann, Edwin *see* **Grosse, Harald et al.**, **2005g:81079** *and* **2005g:81080**
Lee, Taejun (*with* Rim, Chaiho) Thermodynamic Bethe ansatz for boundary sine-Gordon model. (English summary) **2005c:81128**
Li, Lu[2] *see* **Li, Qiu-Yan et al.**, **2005d:82022**
Li, Qiu-Yan (*with* Xie, Zheng-Wei; Li, Lu[2]; Li, Zai-Dong; Liang, Jiu Qing) Exact soliton solution of spin chain with an external magnetic field in linear wave background. (English summary) **2005d:82022**
Li, Zai-Dong *see* **Li, Qiu-Yan et al.**, **2005d:82022**
Liang, Jiu Qing *see* **Li, Qiu-Yan et al.**, **2005d:82022**
Lieb, Elliott H. (*with* Seiringer, Robert; Yngvason, Jakob) One-dimensional behavior of dilute, trapped Bose gases. (English summary) **2005b:82012**
Lima-Santos, A. *see* **Kurak, V.**, **2005m:82026**
Līsoviĭ, O. O. *see* **Bugrīĭ, A. I.**, **2005h:82014**
López, Esperanza *see* **Hernández, Rafael**, **2005i:81162**
McCoy, Barry M. *see* **Fabricius, Klaus**, **2005a:82025**
Mukhin, E. E. (*with* Varchenko, A. N.) Critical points of master functions and flag varieties. (English summary) **2005b:17052**
Musso, Fabio (*with* Petrera, Matteo; Ragnisco, Orlando) Algebraic extensions of Gaudin models. (English summary) **2005h:37127**
Niccoli, Giuliano *see* **Delfino, Gesualdo**, **2005m:81196**
Nishino, Akinori (*with* Deguchi, Tetsuo) Completeness of Bethe ansatz for 1D Hubbard model with AB-flux through combinatorial formulas and exact enumeration of eigenstates. (English summary) **2005b:82020**
Pan, Feng[1] (*with* Dai, Lian-Rong; Zhang, Dan[4]; Draayer, J. P.) Permutation group approach to the one-dimensional XXX Heisenberg open spin-1/2 chains. (English summary) **2005b:82021**
Paufler, Cornelius *see* **Grosse, Harald et al.**, **2005g:81079** *and* **2005g:81080**
Petrera, Matteo *see* **Musso, Fabio et al.**, **2005h:37127**
Pruessner, Gunnar Exact solution of the totally asymmetric Oslo model. (English summary) **2005g:82023**
Pulé, Joseph V. *see* **Dorlas, Teunis C.**, **2005h:82057**
Quano, Yas-Hiro Quantum Knizhnik-Zamolodchikov equations of level 0 and form factors in SOS model. (English summary) **2005e:81097**
Ragnisco, Orlando *see* **Musso, Fabio et al.**, **2005h:37127**
Ragoucy, É. *see* **Arnaudon, Daniel et al.**, **2005j:82009**
Richard, Christoph (*with* Guttmann, Anthony J.) Poland-Scheraga models and the DNA denaturation transition. (English summary) **2005a:92068**
Richter, Johannes *see* **Derzhko, Oleg et al.**, **2005f:82015**
Rim, Chaiho *see* **Lee, Taejun**, **2005c:81128**
Rodríguez, Miguel Angel[2] *see* **Finkel, F. et al.**, **2005c:82016**
Roiban, Radu (*with* Volovich, Anastasia) Yang-Mills correlation functions from integrable spin chains. (English summary) **2005i:81169**
Rosengren, Hjalmar Sklyanin invariant integration. **2005m:33024**
Sánchez, Angel *see* **Cuesta, José A.**, **2005c:82032**
Schäfer-Nameki, Sakura The algebraic curve of 1-loop planar $\mathcal{N}=4$ SYM. (English summary) **2005k:81328**
Seiringer, Robert *see* **Lieb, Elliott H. et al.**, **2005b:82012**
Serban, Didina (*with* Staudacher, Matthias) Planar $\mathcal{N}=4$ gauge theory and the Inozemtsev long range spin chain. (English summary) **2005e:81238**
Shcherbak, I. G. Gaudin's model and the generating function of the Wroński map. (English summary) **2005b:34015**
Slavnov, N. A. Probability of the formation of a vacuum in the XXZ spin 1/2 Heisenberg chain. (Russian. Russian summary) **2005f:82023**
Smirnov, Fedor A. Baxter equations and deformation of abelian differentials. (English summary) **2005m:81140**
Staudacher, Matthias *see* **Arutyunov, Gleb E.**, **2005a:81210** *and* **Serban, Didina**, **2005e:81238**
Stokman, Jasper V. Vertex-IRF transformations, dynamical quantum groups and harmonic analysis. (English summary) **2005e:33015**
Suzuki, Junji *see* **Dorey, Patrick et al.**, **2005c:82010**
Tateo, Roberto *see* **Dorey, Patrick et al.**, **2005c:82010**

Tsyganov, Andreĭ Vladimirovich[1] (*with* Goremykin, O. V.) Integrable systems on so(4) related to XXX spin chains with boundaries. (English summary) **2005c:81088**
Usami, Kosuke *see* **Date, Etsuro, 2005a:17023**
Usmanov, R. A. *see* **Belavin, A. A., 2005b:81053**
Varchenko, A. N. ★ Special functions, KZ type equations, and representation theory. **2005g:33021**
— *see also* **Mukhin, E. E., 2005b:17052**
Volovich, Anastasia *see* **Roiban, Radu, 2005i:81169**
Wang, Hong Yu[1] Nonlinear Schrödinger systems associated with Hermitian symmetric Lie algebras. (English summary) **2005c:37133**
Westbury, Bruce W. An R-matrix for $D_4^{(3)}$. (English summary) **2005k:81133**
Witte, N. S. *see* **Forrester, Peter J. et al., 2005c:82011**
Xie, Zheng-Wei *see* **Li, Qiu-Yan et al., 2005d:82022**
Yamada, Hiroaki[1] *see* **Iguchi, Kazumoto, 2005m:82059**
Yngvason, Jakob *see* **Lieb, Elliott H. et al., 2005b:82012**
Zaburannyi, Oles' *see* **Derzhko, Oleg et al., 2005f:82015**
Zhang, Dan[4] *see* **Pan, Feng**[1] **et al., 2005b:82021**
Zhdanov, R. Z. *see* **Finkel, F. et al., 2005c:82016**
Zinn-Justin, Paul *see* **Jacobsen, Jesper Lykke, 2005e:82014**
Zvonarev, M. B. *see* **Cheianov, Vadim V., 2005b:82010**

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Abraham, D. B. (*with* Mustonen, Ville; Wood, A. J.) Solid on solid model for an interface crossing a grain boundary. (English summary) **2005e:82031**
— (*with* Mustonen, Ville; Wood, A. J.) Equilibrium statistical mechanics of a grain boundary. (English summary) **2005m:82042**
Alberti, Giovanni (*with* DeSimone, Antonio) Wetting of rough surfaces: a homogenization approach. (English summary) **2005m:82043**
Bertacchi, Daniela (*with* Giacomin, Giambattista) On the repulsion of an interface above a correlated substrate. (English summary) **2005c:82029**
— (*with* Giacomin, Giambattista) Wall repulsion and mutual interface repulsion: a harmonic crystal model in high dimensions. (English summary) **2005g:82035**
Boland, Mercedes *see* **Scott, Larkin Ridgway et al.**
Carlen, E. A. (*with* Carvalho, M. C.; Esposito, Raffaele; Lebowitz, Joel L.; Marra, R.) Free energy minimizers for a two-species model with segregation and liquid-vapour transition. (English summary) **2005g:82036**
Carvalho, M. C. *see* **Carlen, E. A. et al., 2005g:82036**
De Coninck, Joël (*with* Dobrovolny, Christophe; Miracle-Solé, Salvador; Ruiz, Jean) Wetting of heterogeneous surfaces at the mesoscopic scale. (English summary) **2005f:82031**
De Masi, Anna (*with* Gobron, T.) Liquid-vapor interfaces and surface tension in a mesoscopic model of fluid with nonlocal interactions. (English summary) **2005g:82037**
DeSimone, Antonio *see* **Alberti, Giovanni, 2005m:82043**
Dobrovolny, Christophe *see* **De Coninck, Joël et al., 2005f:82031**
Esposito, Raffaele *see* **Carlen, E. A. et al., 2005g:82036**
Fernández, Ariel *see* **Scott, Larkin Ridgway et al.**
Fisher, Michael Ellis *see* **Zinn, Shun-yong, 2005m:82044**
Giacomin, Giambattista *see* **Bertacchi, Daniela, 2005c:82029** *and* **2005g:82035**
Gobron, T. *see* **De Masi, Anna, 2005g:82037**
Griniv, O. O. (*with* Velenik, Yvan) Universality of critical behaviour in a class of recurrent random walks. (English summary) **2005i:82028**
Lebowitz, Joel L. *see* **Carlen, E. A. et al., 2005g:82036**
Marra, R. *see* **Carlen, E. A. et al., 2005g:82036**
Miracle-Solé, Salvador *see* **De Coninck, Joël et al., 2005f:82031**
Mustonen, Ville *see* **Abraham, D. B. et al., 2005e:82031** *and* **2005m:82042**
Rogale, Kristina *see* **Scott, Larkin Ridgway et al.**
Ruiz, Jean *see* **De Coninck, Joël et al., 2005f:82031**
Scott, Larkin Ridgway (*with* Boland, Mercedes; Rogale, Kristina; Fernández, Ariel) Continuum equations for dielectric response to macro-molecular assemblies at the nano scale. (English summary)
Spałek, J. *see* **Usatenko, Z.**
Usatenko, Z. (*with* Spałek, J.) Surface critical behaviour of semi-infinite systems with cubic anisotropy at the ordinary transition. (English summary)
Velenik, Yvan Entropic repulsion of an interface in an external field. (English summary) **2005f:82032**
— *see also* **Griniv, O. O., 2005i:82028**
Wood, A. J. *see* **Abraham, D. B. et al., 2005e:82031** *and* **2005m:82042**
Zinn, Shun-yong (*with* Fisher, Michael Ellis) Scaling for interfacial tensions near critical endpoints. (English summary) **2005m:82044**

Items with secondary classifications in 82B24

Blanc, Xavier (*with* Le Bris, Claude) Définition d'énergies d'interfaces à partir de modèles atomiques. (English and French summaries) [A definition of interface energies using atomistic models] **2005m:74003**
Bolthausen, Erwin (*with* Giacomin, Giambattista) Periodic copolymers at selective interfaces: a large deviations approach. (English summary) **2005m:60226**
Caginalp, G. (*with* Merdan, H.) The transition between quasi-static and fully dynamic for interfaces. (English summary) **2005m:82109**
Chou, Tom *see* **D'Orsogna, Maria R., 2005h:82016**
Dobrovolny, Christophe (*with* Laanait, L.; Ruiz, Jean) Surface transitions of the semi-infinite Potts model. II. The low bulk temperature regime. (English summary) **2005e:82033**
D'Orsogna, Maria R. (*with* Chou, Tom) Interparticle gap distributions on one-dimensional lattices. (English summary) **2005h:82016**
Giacomin, Giambattista *see* **Bolthausen, Erwin, 2005m:60226**
Iliev, Gerasim Kiril (*with* Rechnitzer, Andrew; Whittington, S. G.) Localization of random copolymers and the Morita approximation. (English summary) **2005h:82124**
Laanait, L. *see* **Dobrovolny, Christophe et al., 2005e:82033**
Le Bris, Claude *see* **Blanc, Xavier, 2005m:74003**
Merdan, H. *see* **Caginalp, G., 2005m:82109**
(Nelson, David R.) *see* **Statistical mechanics of membranes and surfaces, 2005f:82002**
Peschel, Ingo Entanglement entropy with interface defects. (English summary) **2005m:82027**
(Piran, Tsvi) *see* **Statistical mechanics of membranes and surfaces, 2005f:82002**
Rechnitzer, Andrew *see* **Iliev, Gerasim Kiril et al., 2005h:82124**
Ruiz, Jean *see* **Dobrovolny, Christophe et al., 2005e:82033**
Shopova, Diana V. (*with* Uzunov, Dimo I.) Some basic aspects of quantum phase transitions. (English summary) **2005g:82040**
Uzunov, Dimo I. *see* **Shopova, Diana V., 2005g:82040**
(Weinberg, Steven) *see* **Statistical mechanics of membranes and surfaces, 2005f:82002**
Whittington, S. G. *see* **Iliev, Gerasim Kiril et al., 2005h:82124**

Items listed otherwise than by author

Jerusalem ★ Statistical mechanics of membranes and surfaces. **2005f:82002**
Statistical mechanics of membranes and surfaces ★ Statistical mechanics of membranes and surfaces. **2005f:82002**

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Barré, J. *see* **Bouchet, F., 2005m:82046**
Bena, Ioana (*with* Coppex, F.; Droz, Michel; Lipowski, Adam) Yang-Lee zeros for an urn model for the separation of sand. (English summary) **2005b:82026**
Bertin, Etienne (*with* Billiot, Jean-Michel; Drouilhet, Rémy) Phase transition in the nearest-neighbor continuum Potts model. (English summary) **2005h:82037**
Billiot, Jean-Michel *see* **Bertin, Etienne et al., 2005h:82037**
Biskup, Marek (*with* Chayes, Lincoln; Kivelson, Steven A.) Order by disorder, without order, in a two-dimensional spin system with O(2) symmetry. (English summary) **2005m:82045**
— (*with* Chayes, Lincoln; Kotecký, Roman) A proof of the Gibbs-Thomson formula in the droplet formation regime. (English summary) **2005k:82018**
Borgs, Christian (*with* Chayes, Jennifer T.; Mertens, Stephan; Pittel, Boris) Phase diagram for the constrained integer partitioning problem. (English summary) **2005c:82030**
Bouchet, F. (*with* Barré, J.) Classification of phase transitions and ensemble inequivalence, in systems with long range interactions. (English summary) **2005m:82046**
Bovier, Anton (*with* Merola, I.; Presutti, E.; Zahradník, M.) On the Gibbs phase rule in the Pirogov-Sinai regime. (English summary) **2005c:82031**
Camia, Federico (*with* Newman, Charles M.) The percolation transition in the zero-temperature Domany model. (English summary) **2005a:82032**
Casartelli, Mario (*with* Dall'Asta, Luca; Rastelli, Enrico; Regina, Sofia) Metric features of a dipolar model. (English summary) **2005g:82038**
Casetti, Lapo (*with* Pettini, Marco; Cohen, E. G. D.) Phase transitions and topology changes in configuration space. (English summary) **2005b:82027**
Chayes, Jennifer T. *see* **Borgs, Christian et al., 2005c:82030**
Chayes, Lincoln *see* **Biskup, Marek et al., 2005k:82018** *and* **2005m:82045**
Chomaz, Ph. (*with* Gulminelli, F.) First-order phase transitions: equivalence between bimodalities and the Yang-Lee theorem. (English summary) **2005b:82028**
Cohen, E. G. D. *see* **Casetti, Lapo et al., 2005b:82027**
Continentino, Mucio A. (*with* Ferreira, André S.) Quantum first-order phase transitions. (English summary) **2005d:82037**
Coppex, F. *see* **Bena, Ioana et al., 2005b:82026**
Creignou, Nadia (*with* Daudé, Hervé) Combinatorial sharpness criterion and phase transition classification for random CSPs. (English summary) **2005a:82033**
Cuesta, José A. (*with* Sánchez, Angel) General non-existence theorem for phase transitions in one-dimensional systems with short range interactions, and physical examples of such transitions. (English summary) **2005c:82032**
Dall'Asta, Luca *see* **Casartelli, Mario et al., 2005g:82038**
Daudé, Hervé *see* **Creignou, Nadia, 2005a:82033**
De Masi, Anna Spin systems with long range interactions. **2005e:82032**
Derényi, Imre *see* **Palla, Gergely et al., 2005f:82035**
Dhar, Deepak Steady state and relaxation spectrum of the Oslo rice-pile model. (English summary)
Dobrovolny, Christophe (*with* Laanait, L.; Ruiz, Jean) Surface transitions of the semi-infinite Potts model. II. The low bulk temperature regime. (English summary) **2005e:82033**
Dotsenko, Viktor S. Infinite range interaction model of a structural glass. (English summary) **2005f:82033**
Drouilhet, Rémy *see* **Bertin, Etienne et al., 2005h:82037**
Droz, Michel *see* **Bena, Ioana et al., 2005b:82026**
Dukelsky, Jorge *see* **Vidal, Julien et al., 2005e:82034**
Ekiz, Cesur Phase diagrams of the Ising model on the two-fold Cayley tree: phase transition through doubling bifurcation. (English summary) **2005c:82033**
van Enter, Aernout C. D. (*with* Shlosman, Senya B.) Provable first-order transitions for nonlinear vector and gauge models with continuous symmetries. (English summary) **2005m:82047**
Farkas, Illés *see* **Palla, Gergely et al., 2005f:82035**
Ferreira, André S. *see* **Continentino, Mucio A., 2005d:82037**
Friedli, Sacha (*with* Pfister, Charles E.) On the singularity of the free energy at a first order phase transition. (English summary) **2005g:82039**
Gaeta, Giuseppe Lie-Poincaré transformations and a reduction criterion in Landau theory. (English summary) **2005f:82034**
Galvin, David (*with* Kahn, Jeff) On phase transition in the hard-core model on $\mathbb{Z}^d$. (English summary) **2005c:82034**
Giampaolo, S. M. *see* **de Pasquale, F.**
Gulminelli, F. *see* **Chomaz, Ph., 2005b:82028**
Han, Dong (*with* Han, Yian-lin) Gelation of a reversible Markov process of polymerization. (English summary) **2005j:82027**
Han, Yian-lin *see* **Han, Dong, 2005j:82027**
Janke, Wolfhard (*with* Johnston, Desmond A.; Kenna, R.) Information geometry and phase transitions. (English summary) **2005a:82034**

Johnston, Desmond A. *see* **Janke, Wolfhard et al., 2005a:82034**
Kahn, Jeff *see* **Galvin, David, 2005c:82034**
Kenna, R. *see* **Janke, Wolfhard et al., 2005a:82034**
Khamraev, Murod (*with* Mukhamedov, Farrukh; Rozikov, Utkir A.) On the uniqueness of Gibbs measures for p-adic nonhomogeneous λ-model on the Cayley tree. (English summary) **2005h:82038**
Kim, Seung-Yeon Yang-Lee zeros of the antiferromagnetic Ising model. (English summary) **2005i:82029**
Kivelson, Steven A. *see* **Biskup, Marek et al., 2005m:82045**
Kotecký, Roman *see* **Biskup, Marek et al., 2005k:82018**
Koval′, G. V. A modification of a two-level model of V. P. Maslov, and phase transitions. (Russian) **2005k:82019**
Laanait, L. *see* **Dobrovolny, Christophe et al., 2005e:82033**
Lipowski, Adam *see* **Bena, Ioana et al., 2005b:82026**
Maslov, V. P. Allowance for repulsion in a model of high-temperature conductivity and superfluidity of a Bose gas on a crystal base. Phase transition of the zeroth kind. (Russian) **2005k:82020**
Merola, I. *see* **Bovier, Anton et al., 2005c:82031**
Mertens, Stephan *see* **Borgs, Christian et al., 2005c:82030**
Mosseri, Rémy *see* **Vidal, Julien et al., 2005e:82034**
Mukhamedov, Farrukh *see* **Khamraev, Murod et al., 2005h:82038**
Newman, Charles M. *see* **Camia, Federico, 2005a:82032**
Palla, Gergely (*with* Derényi, Imre; Farkas, Illés; Vicsek, Tamás) Statistical mechanics of topological phase transitions in networks. (English summary) **2005f:82035**
de Pasquale, F. (*with* Giampaolo, S. M.) Expansion around the mean field in quantum magnetic systems. (English summary)
Pettini, Marco *see* **Casetti, Lapo et al., 2005b:82027**
Pfister, Charles E. *see* **Friedli, Sacha, 2005g:82039**
Pittel, Boris *see* **Borgs, Christian et al., 2005c:82030**
Presutti, E. *see* **Bovier, Anton et al., 2005c:82031**
Rastelli, Enrico *see* **Casartelli, Mario et al., 2005g:82038**
Regina, Sofia *see* **Casartelli, Mario et al., 2005g:82038**
Rozikov, Utkir A. *see* **Khamraev, Murod et al., 2005h:82038**
Ruiz, Jean *see* **Dobrovolny, Christophe et al., 2005e:82033**
Ryzhov, V. N. (*with* Tareeva, E. E.; Shchelkacheva, T. I.; Shchelkachev, N. M.) Liquid-glass transition in a simple cluster model. (Russian. Russian summary) **2005k:82021**
Sánchez, Angel *see* **Cuesta, José A., 2005c:82032**
Sergeev, Sergei M. Evidence of the existence of a phase transition in three-dimensional lattice models. (Russian. Russian summary) **2005d:82038**
Shchelkachev, N. M. *see* **Ryzhov, V. N. et al., 2005k:82021**
Shchelkacheva, T. I. *see* **Ryzhov, V. N. et al., 2005k:82021**
Shlosman, Senya B. (*with* Zagrebnov, Valentin A.) Magnetostriction transition. (English summary) **2005a:82035**
— *see also* **van Enter, Aernout C. D., 2005m:82047**
Shopova, Diana V. (*with* Uzunov, Dimo I.) Some basic aspects of quantum phase transitions. (English summary) **2005g:82040**
Tareeva, E. E. *see* **Ryzhov, V. N. et al., 2005k:82021**
Uzunov, Dimo I. *see* **Shopova, Diana V., 2005g:82040**
Vicsek, Tamás *see* **Palla, Gergely et al., 2005f:82035**
Vidal, Julien (*with* Mosseri, Rémy; Dukelsky, Jorge) Entanglement in a first-order quantum phase transition. (English summary) **2005e:82034**
Zagrebnov, Valentin A. *see* **Shlosman, Senya B., 2005a:82035**
Zahradník, M. *see* **Bovier, Anton et al., 2005c:82031**

Items with secondary classifications in 82B26

Abraham, D. B. (*with* Mustonen, Ville; Wood, A. J.) Solid on solid model for an interface crossing a grain boundary. (English summary) **2005e:82031**
— (*with* Mustonen, Ville; Wood, A. J.) Equilibrium statistical mechanics of a grain boundary. (English summary) **2005m:82042**
Achlioptas, Dimitris (*with* Peres, Yuval) The threshold for random k-SAT is $2^k \log 2 - O(k)$. **2005g:68137**
Ahmed, Mahrous Rashad (*with* Gehring, G. A.) The phase diagram of an anisotropic Potts model. (English summary)
Ananikyan, Nerses *see* **Ghulghazaryan, Ruben et al., 2005d:82019**
Anglès d'Auriac, J.-Ch. *see* **Mercaldo, M. T. et al.**
Ariosa, D. (*with* Fort, H.) Extended estimator approach for 2×2 games and its mapping to the Ising Hamiltonian. (English summary) **2005m:91029**
Avron, Joseph E. Colored Hofstadter butterflies. (English summary) (*see* **2005c:81007**)
Biskup, Marek (*with* Chayes, Lincoln; Kotecký, Roman) Critical region for droplet formation in the two-dimensional Ising model. (English summary) **2005a:82023**
Blanchard, Philippe (*with* Gandolfo, D.; Ruiz, Jean; Shlosman, Senya B.) On the Euler-Poincaré characteristic of the random cluster model. (English summary) **2005f:60210**
Blöte, Henk W. J. *see* **Deng, Youjin**
Boettcher, Stefan Efficient local search near phase transitions in combinatorial optimization. (English summary) **2005b:68121**
Borgs, Christian (*with* Chayes, Jennifer T.; Dyer, Martin; Tetali, Prasad) On the sampling problem for H-colorings on the hypercubic lattice. (English summary) **2005e:05046**
— (*with* Chayes, Jennifer T.; Mertens, Stephan; Pittel, Boris) Constrained integer partitions. (English summary) (*see* **2005d:68010**)
Caracciolo, Sergio (*with* Mognetti, Bortolo Matteo; Pelissetto, Andrea) Two-dimensional Heisenberg model with nonlinear interactions: $1/N$ corrections. (English summary) **2005i:82018**
Cardy, John SLE for theoretical physicists. (English summary)
Carlen, E. A. (*with* Carvalho, M. C.; Esposito, Raffaele; Lebowitz, Joel L.; Marra, R.) Free energy minimizers for a two-species model with segregation and liquid-vapour transition. (English summary) **2005g:82036**
Carvalho, M. C. *see* **Carlen, E. A. et al., 2005g:82036**
Cavalcanti, Welchy L. *see* **Serra, Pablo et al., 2005d:82046**
Chayes, Jennifer T. *see* **Borgs, Christian et al., 2005e:05046** *and* (**2005d:68010**)
Chayes, Lincoln *see* **Biskup, Marek et al., 2005a:82023**
Contucci, Pierluigi *see* **Morita, Satoshi et al., 2005c:82047**
Coolen, A. C. C. *see* **Nikoletopoulos, T. et al., 2005f:82019**
Coppersmith, Don (*with* Gamarnik, David; Hajiaghayi, Mohammad Taghi; Sorkin, Gregory B.) Random MAX SAT, random MAX CUT, and their phase transitions. (English summary) **2005c:68088**
Creutz, Michael Playing with sandpiles. (English summary)
D'Adda, Alessandro (*with* Provero, P.) Two-dimensional gauge theories of the symmetric group S_n in the large-n limit. (English summary) **2005b:81098**
De Martino, A. (*with* Marsili, Matteo; Pérez Castillo, I.) Statistical mechanics analysis of the equilibria of linear economies. (English summary) **2005j:91058**
De Masi, Anna (*with* Gobron, T.) Liquid-vapor interfaces and surface tension in a mesoscopic model of fluid with nonlocal interactions. (English summary) **2005g:82037**
Deng, Youjin (*with* Blöte, Henk W. J.) Edge phase transitions of the tricritical Potts model in two dimensions. (English summary)
Diehl, H. W. (*with* Rutkevich, S.) Boundary critical behaviour at m-axial Lifshitz points: the special transition for the case of a surface plane parallel to the modulation axes. (English summary) **2005e:82036**
Durrett, Richard Rigorous result for the CHKNS random graph model. (English summary) **2005d:05133**
Dyer, Martin *see* **Borgs, Christian et al., 2005e:05046**
Ekiz, Cesur Bethe lattice consideration of the antiferromagnetic spin-1 Ising model. (English summary) **2005a:82024**
Esposito, Raffaele *see* **Carlen, E. A. et al., 2005g:82036**
Fiala, Jan (*with* Kleban, Peter) Thermodynamics of the Farey fraction spin chain. (English summary) **2005j:82021**
Fort, H. *see* **Ariosa, D., 2005m:91029**
Franz, Silvio (*with* Toninelli, Fabio Lucio) A field-theoretical approach to the spin glass transition: models with long but finite interaction range. (English summary) **2005h:82060**
Friedli, Sacha (*with* Pfister, Charles E.) Non-analyticity and the van der Waals limit. (English summary) **2005b:82005**
Galla, Tobias Statistical mechanics of dilute batch minority games with random external information. (English summary) **2005h:82029**
Gamarnik, David *see* **Coppersmith, Don et al., 2005c:68088**
Gandolfo, D. *see* **Blanchard, Philippe et al., 2005f:60210**
Gehring, G. A. *see* **Ahmed, Mahrous Rashad**
Ghulghazaryan, Ruben (*with* Ananikyan, Nerses; Jonassen, Tore M.) Julia sets and Yang-Lee zeros of the Potts model on Bethe lattices. (English summary) **2005d:82019**
Gobron, T. *see* **De Masi, Anna, 2005g:82037**
Golovko, V. A. Crystals of cubic symmetry in statistical theory. (English summary) **2005f:82130**
Gray, Lawrence F. *see* **Levine, Erel et al., 2005g:90011**
Grill, Karl (*with* Tutschka, Christian) One-dimensional falling bodies. (English summary) **2005j:82003**
Häggström, Olle (*with* Külske, Christof) Gibbs properties of the fuzzy Potts model on trees and in mean field. (English summary) **2005m:82022**
Hajiaghayi, Mohammad Taghi *see* **Coppersmith, Don et al., 2005c:68088**
Han, Jianlong The Cauchy problem and steady state solutions for a nonlocal Cahn-Hilliard equation. (English summary) **2005h:35168**
Hatchett, J. P. L. *see* **Nikoletopoulos, T. et al., 2005f:82019**
Higuchi, Yasunari (*with* Takei, Masato) Some results on the phase structure of the two-dimensional Widom-Rowlinson model. **2005f:82016**
Holland Kieran M. (*with* Pepe, Michele; Wiese, U.-J.) The deconfinement phase transition of Sp(2) and Sp(3) Yang-Mills theories in $2+1$ and $3+1$ dimensions. (English summary) **2005d:81244**
Iglói, Ferenc *see* **Mercaldo, M. T. et al.**
Jafarpour, Farhad H. Matrix product states of three families of one-dimensional interacting particle systems. (English summary)
Janse van Rensburg, E. J. Inflating square and rectangular lattice vesicles. (English summary) **2005e:82042**
Janson, Svante (*with* Mossel, Elchanan) Robust reconstruction on trees is determined by the second eigenvalue. (English summary) **2005h:60296**
Jonassen, Tore M. *see* **Ghulghazaryan, Ruben et al., 2005d:82019**
Katori, Makoto (*with* Tanemura, Hideki) Functional central limit theorems for vicious walkers. (English summary) **2005b:82034**
Kenyon, Richard W. (*with* Wilson, David Bruce) Critical resonance in the non-intersecting lattice path model. (English summary) **2005g:82020**
Kleban, Peter *see* **Fiala, Jan, 2005j:82021**
Kleinert, Hagen (*with* Schmidt, Sebastian; Pelster, Axel) Quantum phase diagram for homogeneous Bose-Einstein condensate. (English summary) **2005m:82010**
Kotecký, Roman *see* **Biskup, Marek et al., 2005a:82023**
Külske, Christof Regularity properties of potentials for joint measures of random spin systems. (English summary) **2005m:82071**
— *see also* **Häggström, Olle, 2005m:82022**
Langmann, Edwin Exactly solvable models for 2D interacting fermions. (English summary) **2005b:81232**
Latora, Vito *see* **Pluchino, A. et al.**
Lebowitz, Joel L. *see* **Carlen, E. A. et al., 2005g:82036**
Levine, Erel (*with* Ziv, G.; Gray, Lawrence F.; Mukamel, D.) Phase transitions in traffic models. (English summary) **2005g:90011**
Lidar, Daniel A. *see* **Wu, Lian Ao et al., 2005h:81081**
Lübeck, S. (*with* Willmann, R. D.) Universal scaling behavior of directed percolation around the upper critical dimension. (English summary) **2005d:82048**
Machado, Kleber D. *see* **Serra, Pablo et al., 2005d:82046**
Marino, E. C. *see* **Mondaini, Leonardo, 2005k:82022**
Marra, R. *see* **Carlen, E. A. et al., 2005g:82036**
Marsili, Matteo *see* **De Martino, A. et al., 2005j:91058**
Mercaldo, M. T. (*with* Anglès d'Auriac, J.-Ch.; Iglói, Ferenc) Disorder-induced rounding of the phase transition in the large-q-state Potts model. (English summary)
Mertens, Stephan *see* **Borgs, Christian et al., (2005d:68010)**

Miracle-Solé, Salvador Low temperature states of the two and three dimensional Falicov-Kimball models. (English summary) **2005d:82024**

Moessner, R. (*with* Tchernyshyov, Oleg; Sondhi, S. L.) Planar pyrochlore, quantum ice and sliding ice. (English summary) **2005k:82012**

Mognetti, Bortolo Matteo *see* **Caracciolo, Sergio et al., 2005i:82018**

Mondaini, Leonardo (*with* Marino, E. C.) Sine-Gordon/Coulomb gas soliton correlation functions and an exact evaluation of the Kosterlitz-Thouless critical exponent. (English summary) **2005k:82022**

Morita, Satoshi (*with* Nishimori, Hidetoshi; Contucci, Pierluigi) Griffiths inequalities for the Gaussian spin glass. (English summary) **2005c:82047**

Mossel, Elchanan Phase transitions in phylogeny. (English summary) **2005b:82019**

— *see also* **Janson, Svante, 2005h:60296**

Mukamel, D. *see* **Levine, Erel et al., 2005g:90011**

Mukhamedov, Farrukh (*with* Rozikov, Utkir A.) On Gibbs measures of p-adic Potts model on the Cayley tree. (English summary) **2005e:82017**

— On a factor associated with the unordered phase of λ-model on a Cayley tree. (English summary) **2005d:82013**

Mustonen, Ville *see* **Abraham, D. B. et al., 2005e:82031** *and* **2005m:82042**

Newman, Mark E. J. *see* **Park, Juyong, 2005k:82032**

Nikoletopoulos, T. (*with* Coolen, A. C. C.; Pérez Castillo, I.; Skantzos, N. S.; Hatchett, J. P. L.; Wemmenhove, B.) Replicated transfer matrix analysis of Ising spin models on 'small world' lattices. (English summary) **2005f:82019**

Nishimori, Hidetoshi *see* **Morita, Satoshi et al., 2005c:82047**

Osmolovskiĭ, V. G. Dependence of the temperature of phase transitions on the size of the domain. (Russian. English and Russian summaries) **2005m:74079**

Park, Juyong (*with* Newman, Mark E. J.) Solution of the two-star model of a network. (English summary) **2005k:82032**

Pelissetto, Andrea *see* **Caracciolo, Sergio et al., 2005i:82018**

Pelster, Axel *see* **Kleinert, Hagen et al., 2005m:82010**

Pepe, Michele *see* **Holland Kieran M. et al., 2005d:81244**

Peres, Yuval *see* **Achlioptas, Dimitris, 2005g:68137**

Pérez Castillo, I. *see* **Nikoletopoulos, T. et al., 2005f:82019** *and* **De Martino, A. et al., 2005j:91058**

Pfister, Charles E. *see* **Friedli, Sacha, 2005b:82005**

Pittel, Boris *see* **Borgs, Christian et al., (2005d:68010)**

Pluchino, A. (*with* Latora, Vito; Rapisarda, Andrea) Dynamics and thermodynamics of a model with long-range interactions. (English summary)

Provero, P. *see* **D'Adda, Alessandro, 2005b:81098**

Pulé, Joseph V. (*with* Zagrebnov, Valentin A.) The canonical perfect Bose gas in Casimir boxes. (English summary) **2005h:82009**

Rapisarda, Andrea *see* **Pluchino, A. et al.**

Rohde, Christian Phase transitions and sharp-interface limits for the 1d-elasticity system with non-local energy. (English summary) **2005k:35268**

Rozikov, Utkir A. *see* **Mukhamedov, Farrukh, 2005e:82017**

Ruiz, Jean *see* **Blanchard, Philippe et al., 2005f:60210**

Rutkevich, S. *see* **Diehl, H. W., 2005e:82036**

Sarandy, M. S. *see* **Wu, Lian Ao et al., 2005h:81081**

Schmidt, Sebastian *see* **Kleinert, Hagen et al., 2005m:82010**

Serra, Pablo (*with* Stilck, Jürgen F.; Cavalcanti, Welchy L.; Machado, Kleber D.) Polymers with attractive interactions on the Husimi lattice. (English summary) **2005d:82046**

Shlosman, Senya B. *see* **Blanchard, Philippe et al., 2005f:60210**

Skantzos, N. S. *see* **Nikoletopoulos, T. et al., 2005f:82019**

Skripnik, V. I. Long-range order in linear ferromagnetic oscillator systems. Strong pair quadratic n-n potential. (English and Ukrainian summaries) **2005i:82023**

Sondhi, S. L. *see* **Moessner, R. et al., 2005k:82012**

Sorkin, Gregory B. *see* **Coppersmith, Don et al., 2005c:68088**

Spałek, J. *see* **Usatenko, Z.**

Stilck, Jürgen F. *see* **Serra, Pablo et al., 2005d:82046**

Takei, Masato *see* **Higuchi, Yasunari, 2005f:82016**

Tanemura, Hideki *see* **Katori, Makoto, 2005b:82034**

Tchernyshyov, Oleg *see* **Moessner, R. et al., 2005k:82012**

Tetali, Prasad *see* **Borgs, Christian et al., 2005e:05046**

Toninelli, Fabio Lucio *see* **Franz, Silvio, 2005h:82060**

Tutschka, Christian *see* **Grill, Karl, 2005j:82003**

Ueltschi, Daniel Segregation in the asymmetric Hubbard model. (English summary) **2005e:82018**

Usatenko, Z. (*with* Spałek, J.) Surface critical behaviour of semi-infinite systems with cubic anisotropy at the ordinary transition. (English summary)

Wemmenhove, B. *see* **Nikoletopoulos, T. et al., 2005f:82019**

Wiese, U.-J. *see* **Holland Kieran M. et al., 2005d:81244**

Willmann, R. D. *see* **Lübeck, S., 2005d:82048**

Wilson, David Bruce *see* **Kenyon, Richard W., 2005g:82020**

Wood, A. J. *see* **Abraham, D. B. et al., 2005e:82031** *and* **2005m:82042**

Wu, Lian Ao (*with* Sarandy, M. S.; Lidar, Daniel A.) Quantum phase transitions and bipartite entanglement. (English summary) **2005h:81081**

Zagrebnov, Valentin A. *see* **Pulé, Joseph V., 2005h:82009**

Ziv, G. *see* **Levine, Erel et al., 2005g:90011**

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Albayrak, Erhan (*with* Yigit, Ali) The critical behavior of the mixed spin-1 and spin-2 Ising ferromagnetic system on the Bethe lattice. (English summary) **2005h:82039**

Bardina, Xavier (*with* Márquez-Carreras, David; Rovira, Carles; Tindel, Samy) Higher order expansions for the overlap of the SK model. (English summary) **2005i:82030**

Boukraa, S. *see* **Zenine, N. et al., 2005e:82038** *and* **2005m:82048**

Carbone, Anna (*with* Stanley, H. Eugene) Directed self-organized critical patterns emerging from fractional Brownian paths. (English summary)

Cardy, John Conformal invariance in percolation, self-avoiding walks, and related problems. (English summary) **2005e:82035**

Christensen, Kim *see* **Stapleton, Matthew et al., 2005g:82042**

Delfino, Gesualdo (*with* Grinza, Paolo) Universal ratios along a line of critical points. The Ashkin-Teller model. (English summary) **2005c:82035**

Diehl, H. W. (*with* Rutkevich, S.) Boundary critical behaviour at m-axial Lifshitz points: the special transition for the case of a surface plane parallel to the modulation axes. (English summary) **2005e:82036**

Dingler, Martin *see* **Stapleton, Matthew et al., 2005g:82042**

Dudka, Maxym (*with* Holovatch, Yu.; Yavors′kii, Taras) Universality classes of the three-dimensional mn-vector model. (English summary) **2005f:82036**

Duplantier, Bertrand Conformal spiral multifractals. (English summary) **2005g:82041**

Grinza, Paolo *see* **Delfino, Gesualdo, 2005c:82035**

Hassani, Saoud *see* **Zenine, N. et al., 2005e:82038** *and* **2005m:82048**

Hastings, Matthew B. (*with* Kozma, Balázs) Critical phenomena in a small world. (English summary) **2005h:82040**

Holovatch, Yu. *see* **Dudka, Maxym et al., 2005f:82036**

Janke, Wolfhard (*with* Schakel, Adriaan M. J.) Geometrical vs. Fortuin-Kasteleyn clusters in the two-dimensional q-state Potts model. (English summary) **2005e:82037**

Kager, Wouter (*with* Nienhuis, Bernard) A guide to stochastic Löwner evolution and its applications. (English summary) **2005f:82037**

Kozma, Balázs *see* **Hastings, Matthew B., 2005h:82040**

Maillard, Jean-Marie[1] *see* **Zenine, N. et al., 2005e:82038** *and* **2005m:82048**

Marino, E. C. *see* **Mondaini, Leonardo, 2005k:82022**

Márquez-Carreras, David *see* **Bardina, Xavier et al., 2005i:82030**

Mondaini, Leonardo (*with* Marino, E. C.) Sine-Gordon/Coulomb gas soliton correlation functions and an exact evaluation of the Kosterlitz-Thouless critical exponent. (English summary) **2005k:82022**

Mukaida, Hisamitsu An asymptotic formula for marginal running coupling constants and universality of loglog corrections. (English summary)

Nienhuis, Bernard *see* **Kager, Wouter, 2005f:82037**

Rovira, Carles *see* **Bardina, Xavier et al., 2005i:82030**

Rutkevich, S. *see* **Diehl, H. W., 2005e:82036**

Schakel, Adriaan M. J. *see* **Janke, Wolfhard, 2005e:82037**

Stanley, H. Eugene *see* **Carbone, Anna**

Stapleton, Matthew (*with* Dingler, Martin; Christensen, Kim) Sensitivity to initial conditions in self-organized critical systems. (English summary) **2005g:82042**

Tindel, Samy *see* **Bardina, Xavier et al., 2005i:82030**

Yavors′kii, Taras *see* **Dudka, Maxym et al., 2005f:82036**

Yigit, Ali *see* **Albayrak, Erhan, 2005h:82039**

Zenine, N. (*with* Boukraa, S.; Hassani, Saoud; Maillard, Jean-Marie[1]) The Fuchsian differential equation of the square lattice Ising model $\chi^{(3)}$ susceptibility. (English summary) **2005e:82038**

— (*with* Boukraa, S.; Hassani, Saoud; Maillard, Jean-Marie[1]) Square lattice Ising model susceptibility: series expansion method and differential equation for $\chi^{(3)}$. (English summary) **2005m:82048**

Items with secondary classifications in 82B27

Andrade, José S., Jr. *see* **Soares, Danyel J. B. et al.**

Andrade, Roberto F. S. *see* **Haddad, T. A. S. et al., 2005b:82029**

Au-Yang, Helen (*with* Perk, Jacques H. H.) Susceptibility calculations in periodic and quasiperiodic planar Ising models. (English summary) **2005b:82015**

Behringer, H. (*with* Pleimling, M.; Hüller, A.) Finite-size behaviour of the microcanonical specific heat. (English summary) **2005h:82043**

Bittner, Elmar (*with* Janke, Wolfhard; Markum, H.; Riedler, J.) Two-dimensional quantum gravity with matter fields. (English summary) **2005h:83148**

Blöte, Henk W. J. *see* **Deng, Youjin**

Brightwell, Graham R. (*with* Winkler, Peter M.) A second threshold for the hard-core model on a Bethe lattice. (English summary) **2005c:82014**

Camia, Federico Scaling limit and critical exponents for two-dimensional bootstrap percolation. (English summary) **2005m:82063**

Caprara, S. *see* **Di Castro, C. et al.**

Chen, Jincan (*with* Lin, Bihong) Low-temperature behaviour of an ideal Bose gas and some forbidden thermodynamic cycles. (English summary) **2005a:82014**

Continentino, Mucio A. (*with* Ferreira, André S.) Quantum first-order phase transitions. (English summary) **2005d:82037**

Deng, Youjin (*with* Blöte, Henk W. J.) Edge phase transitions of the tricritical Potts model in two dimensions. (English summary)

Di Castro, C. (*with* Raimondi, R.; Caprara, S.) Renormalization group and Ward identities in quantum liquid phases and in unconventional critical phenomena. (English summary)

Donev, Aleksandar Nikola (*with* Torquato, Salvatore; Stillinger, Frank H.) Pair correlation function characteristics of nearly jammed disordered and ordered hard-sphere packings. (English summary) **2005m:82055**

Dubédat, Julien SLE(κ, ρ) martingales and duality. (English summary) **2005j:60180**

Eichelsbacher, Peter (*with* Löwe, Matthias) Moderate deviations for a class of mean-field models. (English summary) **2005f:82008**

Evans, David E. Critical phenomena, modular invariants and operator algebras. (English summary) **2005e:46117**

Ferreira, André S. *see* **Continentino, Mucio A., 2005d:82037**

Fisher, Michael Ellis *see* **Zinn, Shun-yong, 2005m:82044**

Griniv, O. O. (*with* Velenik, Yvan) Universality of critical behaviour in a class of recurrent random walks. (English summary) **2005i:82028**

Haddad, T. A. S. (*with* Andrade, Roberto F. S.; Salinas, S. R.) Critical properties of an aperiodic model for interacting polymers. (English summary) **2005b:82029**

Herrmann, Hans J. *see* **Soares, Danyel J. B. et al.**

Holland Kieran M. (*with* Pepe, Michele; Wiese, U.-J.) The deconfinement phase transition of Sp(2) and Sp(3) Yang-Mills theories in $2+1$ and $3+1$ dimensions. (English summary) **2005d:81244**

Hüller, A. *see* **Behringer, H. et al., 2005h:82043**

Istrate, Gabriel On the satisfiability of random k-Horn formulae. (English summary) **2005b:68136**

Janke, Wolfhard *see* **Bittner, Elmar et al., 2005h:83148**

Janssen, Hans-Karl (*with* Müller, Martin; Stenull, Olaf) Generalized epidemic process and tricritical dynamic percolation. (English summary) **2005k:82038**
Jensen, Iwan Low-density series expansions for directed percolation. III. Some two-dimensional lattices. (English summary) **2005e:82047**
— Self-avoiding walks and polygons on the triangular lattice. (English summary) **2005k:82028**
— Low-density series expansions for directed percolation. IV. Temporal disorder. (English summary) **2005h:82050**
Lin, Bihong *see* **Chen, Jincan**, **2005a:82014**
Löwe, Matthias *see* **Eichelsbacher, Peter**, **2005f:82008**
Lübeck, S. (*with* Willmann, R. D.) Universal scaling behavior of directed percolation around the upper critical dimension. (English summary) **2005d:82048**
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Müller, Martin *see* **Janssen, Hans-Karl et al.**, **2005k:82038**
Pepe, Michele *see* **Holland Kieran M. et al.**, **2005d:81244**
Perk, Jacques H. H. *see* **Au-Yang, Helen**, **2005b:82015**
Piroux, Geoffroy (*with* Ruelle, Philippe) Pre-logarithmic and logarithmic fields in a sandpile model. (English summary) **2005i:81153**
Pléimling, M. *see* **Behringer, H. et al.**, **2005h:82043**
Raimondi, R. *see* **Di Castro, C. et al.**
Riedler, J. *see* **Bittner, Elmar et al.**, **2005h:83148**
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Salinas, S. R. *see* **Haddad, T. A. S. et al.**, **2005b:82029**
Schrader, Robert (*with* Schulz-Baldes, Hermann; Sedrakyan, Ara G.) Perturbative test of single parameter scaling for 1D random media. (English summary) **2005h:82065**
Schulz-Baldes, Hermann *see* **Schrader, Robert et al.**, **2005h:82065**
Sedrakyan, Ara G. *see* **Schrader, Robert et al.**, **2005h:82065**
Shiroishi, Masahiro *see* **Tsuboi, Zengo**
Soares, Danyel J. B. (*with* Andrade, José S., Jr.; Herrmann, Hans J.) Precise calculation of the threshold of various directed percolation models on a square lattice. (English summary)
Stenull, Olaf *see* **Janssen, Hans-Karl et al.**, **2005k:82038**
Stillinger, Frank H. *see* **Donev, Aleksandar Nikola et al.**, **2005m:82055**
Surovyatkina, E. D. Rise and saturation of the correlation time near bifurcation threshold. (English summary) **2005e:37111**
Torquato, Salvatore *see* **Donev, Aleksandar Nikola et al.**, **2005m:82055**
Tóth, Gábor Zsolt A nonperturbative study of phase transitions in the multi-frequency sine-Gordon model. (English summary) **2005k:81167**
Tsuboi, Zengo (*with* Shiroishi, Masahiro) High temperature expansion of the emptiness formation probability for the isotropic Heisenberg chain. (English summary)
Velenik, Yvan Entropic repulsion of an interface in an external field. (English summary) **2005f:82032**
— *see also* **Griniv, O. O.**, **2005i:82028**
Watanabe, Hiroshi[2] Triviality of hierarchical O(N) spin model in four dimensions with large N. (English summary) **2005h:82042**
Werner, Wendelin Random planar curves and Schramm-Loewner evolutions. (English summary) **2005m:60020**
Wiese, U.-J. *see* **Holland Kieran M. et al.**, **2005d:81244**
Willmann, R. D. *see* **Lübeck, S.**, **2005d:82048**
Winkler, Peter M. *see* **Brightwell, Graham R.**, **2005c:82014**
Zinn, Shun-yong (*with* Fisher, Michael Ellis) Scaling for interfacial tensions near critical endpoints. (English summary) **2005m:82044**

82B28 Renormalization group methods [see also 81T17]

Andrade, Roberto F. S. *see* **Haddad, T. A. S. et al.**, **2005b:82029**
Balents, Leon (*with* Le Doussal, Pierre) Thermal fluctuations in pinned elastic systems: field theory of rare events and droplets. (English summary) **2005h:82041**
Benfatto, Giuseppe (*with* Mastropietro, Vieri) Ward identities and vanishing of the beta function for $d = 1$ interacting Fermi systems. (English summary) **2005d:82039**
— (*with* Mastropietro, Vieri) Rigorous analysis of the Tomonaga model by means of Ward identities and the renormalization group. (English summary) **2005m:82049**
Bertini, Lorenzo (*with* Cirillo, Emilio N. M.; Olivieri, Enzo) Gibbsian properties and convergence of the iterates for the block averaging transformation. (English summary) **2005e:82039**
Caprara, S. *see* **Di Castro, C. et al.**
Cirillo, Emilio N. M. *see* **Bertini, Lorenzo et al.**, **2005e:82039**
Di Castro, C. (*with* Raimondi, R.; Caprara, S.) Renormalization group and Ward identities in quantum liquid phases and in unconventional critical phenomena. (English summary)
Feldman, Joel (*with* Knörrer, Horst; Trubowitz, Eugene) A two dimensional Fermi liquid. I. Overview. (English summary) **2005g:82043**
— (*with* Knörrer, Horst; Trubowitz, Eugene) A two dimensional Fermi liquid. II. Convergence. (English summary) **2005g:82047**
— (*with* Knörrer, Horst; Trubowitz, Eugene) A two dimensional Fermi liquid. III. The Fermi surface. (English summary) **2005g:82044**
— (*with* Knörrer, Horst; Trubowitz, Eugene) Convergence of perturbation expansions in fermionic models. I. Nonperturbative bounds. (English summary) **2005g:82045**
— (*with* Knörrer, Horst; Trubowitz, Eugene) Convergence of perturbation expansions in Fermionic models. II. Overlapping loops. (English summary) **2005g:82046**
Garrahan, Juan P. *see* **Whitelam, Stephen**, **2005j:82028**
Haddad, T. A. S. (*with* Andrade, Roberto F. S.; Salinas, S. R.) Critical properties of an aperiodic model for interacting polymers. (English summary) **2005b:82029**
Iglói, Ferenc (*with* Monthus, Cécile) Strong disorder RG approach of random systems. (English summary) **2005m:82050**
Knörrer, Horst *see* **Feldman, Joel et al.**, **2005g:82043**; **2005g:82044**; **2005g:82045**; **2005g:82046** *and* **2005g:82047**
Le Doussal, Pierre (*with* Wiese, Kay Jörg) Derivation of the functional renormalization group β-function at order $1/N$ for manifolds pinned by disorder. (English summary) **2005f:82038**
— *see also* **Schehr, Gregory**, **2005a:82036** *and* **Balents, Leon**, **2005h:82041**
Mastropietro, Vieri *see* **Benfatto, Giuseppe**, **2005d:82039** *and* **2005m:82049**
Missarov, M. D. (*with* Stepanov, R. G.) ε-expansions in Dyson's hierarchical model. (Russian. Russian summary) **2005g:82048**
Monthus, Cécile *see* **Iglói, Ferenc**, **2005m:82050**
Olivieri, Enzo *see* **Bertini, Lorenzo et al.**, **2005e:82039**
Pinnow, H. A. (*with* Wiese, Kay Jörg) Scaling behavior of tethered crumpled manifolds with inner dimension close to $D = 2$: resumming the perturbation theory. (English summary) **2005m:82051**
Raimondi, R. *see* **Di Castro, C. et al.**
Salinas, S. R. *see* **Haddad, T. A. S. et al.**, **2005b:82029**
Schehr, Gregory (*with* Le Doussal, Pierre) Exact multilocal renormalization of the effective action: application to the random sine Gordon model statics and nonequilibrium dynamics. (English summary) **2005a:82036**
Stepanov, R. G. *see* **Missarov, M. D.**, **2005g:82048**
Trubowitz, Eugene *see* **Feldman, Joel et al.**, **2005g:82043**; **2005g:82044**; **2005g:82045**; **2005g:82046** *and* **2005g:82047**
Watanabe, Hiroshi[2] Triviality of hierarchical O(N) spin model in four dimensions with large N. (English summary) **2005h:82042**
Whitelam, Stephen (*with* Garrahan, Juan P.) Facilitated spin models in one dimension: a real-space renormalization group study. (English summary) **2005j:82028**
Wiese, Kay Jörg *see* **Le Doussal, Pierre**, **2005f:82038** *and* **Pinnow, H. A.**, **2005m:82051**

Items with secondary classifications in 82B28

Al'beverio, S. (*with* Gottschalk, Hanno; Yoshida, Minoru W.) Systems of classical particles in the grand canonical ensemble, scaling limits and quantum field theory. (English summary) **2005k:81157**
Biskup, Marek On the scaling of the chemical distance in long-range percolation models. (English summary) **2005k:60296**
Bovier, Anton (*with* Külske, Christof) Coarse-graining techniques for (random) Kac models. (English summary) **2005m:82067**
Brydges, David C. (*with* Guadagni, G.; Mitter, P. K.) Finite range decomposition of Gaussian processes. (English summary) **2005i:82005**
Campanino, Massimo (*with* Ioffe, Dimitri; Velenik, Yvan) Ornstein-Zernike theory for finite range Ising models above T_c. (English summary) **2005b:82016**
Djordjević, B. *see* **Živić, I. et al.**, **2005h:82049**
Dudka, Maxym (*with* Holovatch, Yu.; Yavors'kii, Taras) Universality classes of the three-dimensional mn-vector model. (English summary) **2005f:82036**
Feldman, Joel (*with* Knörrer, Horst; Trubowitz, Eugene) Single scale analysis of many fermion systems. I. Insulators. (English summary) **2005m:82009a**
— (*with* Knörrer, Horst; Trubowitz, Eugene) Single scale analysis of many fermion systems. II. The first scale. (English summary) **2005m:82009b**
— (*with* Knörrer, Horst; Trubowitz, Eugene) Single scale analysis of many fermion systems. III. Sectorized norms. (English summary) **2005m:82009c**
— (*with* Knörrer, Horst; Trubowitz, Eugene) Single scale analysis of many fermion systems. IV. Sector counting. (English summary) **2005m:82009d**
— (*with* Knörrer, Horst; Trubowitz, Eugene) Particle—hole ladders. (English summary) **2005g:82010**
Feverati, G. (*with* Pearce, Paul A.; Ravanini, Francesco) Excited boundary TBA in the tricritical Ising model. (English summary) **2005h:82031**
Fiala, Jan (*with* Kleban, Peter) Thermodynamics of the Farey fraction spin chain. (English summary) **2005j:82021**
Gaite, José Stochastic formulation of the renormalization group: supersymmetric structure and topology of the space of couplings. (English summary) **2005e:81149**
Gottschalk, Hanno *see* **Al'beverio, S. et al.**, **2005k:81157**
Guadagni, G. *see* **Brydges, David C. et al.**, **2005i:82005**
Hazewinkel, Michiel *see* **Torriani, Hugo H.**, **2005h:82025**
Holovatch, Yu. *see* **Dudka, Maxym et al.**, **2005f:82036**
Ioffe, Dimitri *see* **Campanino, Massimo et al.**, **2005b:82016**
Jona-Lasinio, Giovanni Self-similar random fields: from Kolmogorov to renormalization group. (English summary) (*see* **2005a:00023**)
Kleban, Peter *see* **Fiala, Jan**, **2005j:82021**
Knörrer, Horst *see* **Feldman, Joel et al.**, **2005g:82010**; **2005m:82009a**; **2005m:82009b**; **2005m:82009c** *and* **2005m:82009d**
Külske, Christof *see* **Bovier, Anton**, **2005m:82067**
Litim, Daniel F. (*with* Vergara, Lautaro) Subleading critical exponents from the renormalisation group. (English summary) **2005f:81157**
Maeshima, Nobuya Tensor product state formulation for the spin 1/2 antiferromagnetic XXZ model on the checkerboard lattice. (English summary) **2005h:82023**
McComb, W. D. ★ Renormalization methods. **2005f:82001**
Milošević, S. *see* **Živić, I. et al.**, **2005h:82049**
Mitter, P. K. *see* **Brydges, David C. et al.**, **2005i:82005**
Mukaida, Hisamitsu An asymptotic formula for marginal running coupling constants and universality of loglog corrections. (English summary)
Ojima, Izumi Temperature as order parameter of broken scale invariance. (English summary) **2005g:81183**
Pearce, Paul A. *see* **Feverati, G. et al.**, **2005h:82031**
Ravanini, Francesco *see* **Feverati, G. et al.**, **2005h:82031**
Shopova, Diana V. (*with* Uzunov, Dimo I.) Some basic aspects of quantum phase transitions. (English summary) **2005g:82040**
Torriani, Hugo H. (*with* Hazewinkel, Michiel) Coherence and uniqueness theorems for averaging processes in statistical mechanics. (English summary) **2005h:82025**
Trubowitz, Eugene *see* **Feldman, Joel et al.**, **2005g:82010**; **2005m:82009a**; **2005m:82009b**; **2005m:82009c** *and* **2005m:82009d**
Uzunov, Dimo I. *see* **Shopova, Diana V.**, **2005g:82040**
Velenik, Yvan *see* **Campanino, Massimo et al.**, **2005b:82016**
Vergara, Lautaro *see* **Litim, Daniel F.**, **2005f:81157**
Yavors'kii, Taras *see* **Dudka, Maxym et al.**, **2005f:82036**
Yoshida, Minoru W. *see* **Al'beverio, S. et al.**, **2005k:81157**
Živić, I. (*with* Milošević, S.; Djordjević, B.) On the total number of distinct self-interacting

self-avoiding walks on three-dimensional fractal structures. (English summary) **2005h:82049**

82B30 Statistical thermodynamics [see also 80–XX]

Behringer, H. (*with* Pleimling, M.; Hüller, A.) Finite-size behaviour of the microcanonical specific heat. (English summary) **2005h:82043**
Hüller, A. *see* **Behringer, H. et al., 2005h:82043**
Kieu, Tien D. The second law, Maxwell's demon, and work derivable from quantum heat engines. (English summary) **2005h:82044**
Koval′, G. V. An inequality for entropy corresponding to solutions of a unitary-nonlinear equation of quantum thermodynamics. (Russian) **2005h:82045**
Pleimling, M. *see* **Behringer, H. et al., 2005h:82043**

Items with secondary classifications in 82B30

Alicki, Robert (*with* Horodecki, Michał; Horodecki, Paweł; Horodecki, Ryszard) Thermodynamics of quantum information systems—Hamiltonian description. (English summary) **2005h:81085**
Collet, Jean-François A new characterization of Gibbs measures. (English summary) **2005e:82004**
Dai, Wu-Sheng (*with* Xie, Mi) Gentile statistics with a large maximum occupation number. (English summary) **2005d:82011**
van Enter, Aernout C. D. (*with* Verbitskiĭ, E. A.) On the variational principle for generalized Gibbs measures. (English summary) **2005h:82003**
Fernández, Roberto (*with* Le Ny, Arnaud; Redig, Frank) Restoration of Gibbsianness for projected and FKG renormalized measures. (English summary) **2005a:60076**
Furuichi, Shigeru *see* **Yanagi, Kenjiro et al., 2005i:15033**
Horodecki, Michał *see* **Alicki, Robert et al., 2005h:81085**
Horodecki, Paweł *see* **Alicki, Robert et al., 2005h:81085**
Horodecki, Ryszard *see* **Alicki, Robert et al., 2005h:81085**
Kuriyama, Ken *see* **Yanagi, Kenjiro et al., 2005i:15033**
Le Ny, Arnaud *see* **Fernández, Roberto et al., 2005a:60076**
Naudts, Jan (*with* Van der Straeten, Erik) The grand canonical ensemble in generalized thermostatistics. (English summary) **2005h:82005**
Radin, Charles Existence of ground state configurations. (English summary) **2005k:82004**
Redig, Frank *see* **Fernández, Roberto et al., 2005a:60076**
Sergeev, V. M. Rationality, property rights and thermodynamic approach to the market equilibrium. (English and Russian summaries) **2005h:91166**
Van der Straeten, Erik *see* **Naudts, Jan, 2005h:82005**
Verbitskiĭ, E. A. *see* **van Enter, Aernout C. D., 2005h:82003**
Wada, Tatsuaki Thermodynamic stabilities of the generalized Boltzmann entropies. (English summary) **2005d:82005**
Xie, Mi *see* **Dai, Wu-Sheng, 2005d:82011**
Yanagi, Kenjiro (*with* Furuichi, Shigeru; Kuriyama, Ken) On trace inequalities and their applications to noncommutative communication theory. (English summary) **2005i:15033**

82B31 Stochastic methods

Ben-Naim, Eli *see* **Krapivsky, Paul L. et al., 2005j:82029**
Große, Ivo *see* **Krapivsky, Paul L. et al., 2005j:82029**
Huillet, Thierry Random covering of the circle: the configuration-space of the free deposition process. (English summary) **2005a:82037**
Krapivsky, Paul L. (*with* Ben-Naim, Eli; Große, Ivo) Stable distributions in stochastic fragmentation. (English summary) **2005j:82029**
Kupferman, Raz (*with* Stuart, Andrew M.) Fitting SDE models to nonlinear Kac-Zwanzig heat bath models. (English summary) **2005h:82046**
Rider, Brian Deviations from the circular law. (English summary) **2005k:82023**
Stuart, Andrew M. *see* **Kupferman, Raz, 2005h:82046**
Toscano, Fabricio (*with* Vallejos, Raúl O.; Tsallis, Constantino) Random matrix ensembles from nonextensive entropy. (English summary)
Tsallis, Constantino *see* **Toscano, Fabricio et al.**
Vallejos, Raúl O. *see* **Toscano, Fabricio et al.**

Items with secondary classifications in 82B31

Abadi, Miguel (*with* Chazottes, J.-R.; Redig, Frank; Verbitskiĭ, E. A.) Exponential distribution for the occurrence of rare patterns in Gibbsian random fields. (English summary) **2005b:60129**
Athreya, Siva R. (*with* Járai, Antal, Jr.) Infinite volume limit for the stationary distribution of abelian sandpile models. (English summary) **2005m:82106**
Aubrun, Guillaume A sharp small deviation inequality for the largest eigenvalue of a random matrix. (English summary) **2005m:15064**
Blower, Gordon Almost sure weak convergence for the circular ensembles of Dyson. (English summary) **2005i:82012**
Bolthausen, Erwin (*with* Giacomin, Giambattista) Periodic copolymers at selective interfaces: a large deviations approach. (English summary) **2005m:60226**
Borodin, A. M. Asymptotic representation theory and Riemann-Hilbert problem. (English summary) **2005b:47039**
Bouleau, Nicolas ★ Error calculus for finance and physics: the language of Dirichlet forms. **2005g:60003**
Brunet, Éric (*with* Derrida, Bernard) Exactly soluble noisy traveling-wave equation appearing in the problem of directed polymers in a random medium. (English summary) **2005j:82083**
Caselle, Michele (*with* Magnea, U.) Random matrix theory and symmetric spaces. (English summary) **2005d:82049**
Chazottes, J.-R. *see* **Abadi, Miguel et al., 2005b:60129**
D'Aristotile, Anthony (*with* Diaconis, Persi; Newman, Charles M.) Brownian motion and the classical groups. (English summary) **2005e:60185**
Derrida, Bernard *see* **Brunet, Éric, 2005j:82083**
Diaconis, Persi *see* **D'Aristotile, Anthony et al., 2005e:60185**
Doumerc, Yan A note on representations of eigenvalues of classical Gaussian matrices. (English summary) **2005c:60025**
Duplantier, Bertrand Conformal spiral multifractals. (English summary) **2005g:82041**
Gardiner, C. W. (*with* Zoller, P.) ★ Quantum noise. **2005g:81366**
Giacomin, Giambattista *see* **Bolthausen, Erwin, 2005m:60226**
Girko, V. L. The strong circular law. Twenty years later. I. (English summary) **2005e:60077**
Haagerup, Uffe (*with* Thorbjørnsen, Steen) Random matrices with complex Gaussian entries. (English summary) **2005b:46142**
Járai, Antal, Jr. *see* **Athreya, Siva R., 2005m:82106**
Jin, Zhun-Zhi *see* **Zhang, Yu-Xia et al.**
Jona-Lasinio, Giovanni Self-similar random fields: from Kolmogorov to renormalization group. (English summary) (*see* **2005a:00023**)
Jumarie, Guy Probability density of the complex-valued fractional Brownian motion of order n via the maximum entropy principle in $\mathbf{R}_+^{1/n}$. (English summary) **2005a:60082**
Kota, V. K. B. SU(N) Wigner-Racah algebra for the matrix of second moments of embedded Gaussian unitary ensemble of random matrices. (English summary) **2005m:82060**
Kravtsov, Vladimir E. *see* **Yevtushenko, Oleg, 2005f:82052**
Magnea, U. *see* **Caselle, Michele, 2005d:82049**
Martin, James B. Reconstruction thresholds on regular trees. (English summary) **2005b:60019**
Meckes, Mark W. Concentration of norms and eigenvalues of random matrices. (English summary) **2005c:46109**
Newman, Charles M. *see* **D'Aristotile, Anthony et al., 2005e:60185**
Redig, Frank *see* **Abadi, Miguel et al., 2005b:60129**
Sang, Jian-Ping *see* **Zhang, Yu-Xia et al.**
Shukla, Pragya Random matrices with correlated elements: a model for disorder with interactions. (English summary) **2005m:82073**
Thorbjørnsen, Steen *see* **Haagerup, Uffe, 2005b:46142**
Verbitskiĭ, E. A. *see* **Abadi, Miguel et al., 2005b:60129**
Werner, Wendelin SLEs as boundaries of clusters of Brownian loops. (English and French summaries) **2005b:60221**
Yevtushenko, Oleg (*with* Kravtsov, Vladimir E.) Density of states for almost-diagonal random matrices. (English summary) **2005f:82052**
Zhang, Yu-Xia (*with* Sang, Jian-Ping; Zou, Xian-Wu; Jin, Zhun-Zhi) Random walk on percolation under an external field. (English summary)
Zoller, P. *see* **Gardiner, C. W., 2005g:81366**
Zou, Xian-Wu *see* **Zhang, Yu-Xia et al.**

82B40 Kinetic theory of gases

Auer, Ch. (*with* Schürrer, F.; Koller, W.) A semicontinuous formulation of the Bloch-Boltzmann-Peierls equations. (English summary) **2005g:82049**
Ben Abdallah, Naoufel (*with* Martínez-Gamba, Irene; Klar, Axel) The Milne problem for high field kinetic equations. (English summary) **2005g:82050**
Charrier, Pierre (*with* Dubroca, Bruno; Mieussens, Luc; Turpault, Rodolphe) Discrete-velocity models for numerical simulations in transitional regime for rarefied flows and radiative transfer. (English summary) **2005e:82040**
Dubroca, Bruno *see* **Charrier, Pierre et al., 2005e:82040**
Klar, Axel *see* **Ben Abdallah, Naoufel et al., 2005g:82050**
Koller, W. *see* **Auer, Ch. et al., 2005g:82049**
Laliena, Victor Comment on: "The cluster expansion for the self-gravitating gas and the thermodynamic limit" [Nuclear Phys. B **711** (2005), no. 3, 604–620; MR2130058 (2005k:82024)] by H. J. de Vega and N. G. Sánchez.
Martínez-Gamba, Irene *see* **Ben Abdallah, Naoufel et al., 2005g:82050**
Mieussens, Luc *see* **Charrier, Pierre et al., 2005e:82040**
Perthame, Benoît Mathematical tools for kinetic equations. (English summary) **2005a:82038**
Sanchez, Norma G. *see* **de Vega, H. J., 2005k:82024** *and* **Laliena, Victor**
Schürrer, F. *see* **Auer, Ch. et al., 2005g:82049**
Turpault, Rodolphe *see* **Charrier, Pierre et al., 2005e:82040**
de Vega, H. J. (*with* Sanchez, Norma G.) The cluster expansion for the self-gravitating gas and the thermodynamic limit. (English summary) **2005k:82024**
— *see also* **Laliena, Victor**

Items with secondary classifications in 82B40

Arnold, Anton (*with* Carrillo, José-Antonio; Desvillettes, Laurent; Dolbeault, Jean; Jüngel, Ansgar; Lederman, Claudia; Markowich, Peter A.; Toscani, Giuseppe; Villani, Cédric) Entropies and equilibria of many-particle systems: an essay on recent research. (English summary) **2005a:35123**
Barkai, Eli Stable equilibrium based on Lévy statistics: a linear Boltzmann equation approach. (English summary) **2005f:82005**
Carrillo, José-Antonio *see* **Arnold, Anton et al., 2005a:35123**
Chalub, Fabio A. C. C. (*with* Markowich, Peter A.; Perthame, Benoît; Schmeiser, Christian) Kinetic models for chemotaxis and their drift-diffusion limits. (English summary) **2005a:92007**
Desvillettes, Laurent *see* **Arnold, Anton et al., 2005a:35123**
Doi, Toshiyuki *see* **Sone, Yoshio, 2005a:34075**
Dolbeault, Jean *see* **Arnold, Anton et al., 2005a:35123**
Jüngel, Ansgar *see* **Arnold, Anton et al., 2005a:35123**
Lederman, Claudia *see* **Arnold, Anton et al., 2005a:35123**
Markowich, Peter A. *see* **Arnold, Anton et al., 2005a:35123** *and* **Chalub, Fabio A. C. C. et al., 2005a:92007**
Perthame, Benoît *see* **Chalub, Fabio A. C. C. et al., 2005a:92007**
Schmeiser, Christian *see* **Chalub, Fabio A. C. C. et al., 2005a:92007**
Sone, Yoshio (*with* Doi, Toshiyuki) Bifurcation analysis of cylindrical Couette flow with evaporation and condensation by the Boltzmann equation. (English summary) **2005a:34075**
Toscani, Giuseppe *see* **Arnold, Anton et al., 2005a:35123**
Villani, Cédric *see* **Arnold, Anton et al., 2005a:35123**

82B41 Random walks, random surfaces, lattice animals, etc. [see also 60G50, 82C41]

Abal, G. *see* **Romanelli, A. et al., 2005k:82033**

Abbott, Derek *see* **Flitney, Adrian P. et al., 2005g:82052**

Alm, Sven Erick (*with* Parviainen, Robert) Bounds for the connective constant of the hexagonal lattice. (English summary) **2005f:82039**

— Upper and lower bounds for the connective constants of self-avoiding walks on the Archimedean and Laves lattices. (English summary) **2005k:82025**

Antal, Tibor (*with* Redner, Sidney) The excited random walk in one dimension. (English summary) **2005k:82026**

Auyuanet, A. *see* **Romanelli, A. et al., 2005k:82033**

ben-Avraham, Daniel *see* **Rozenfeld, Hernán D. et al., 2005m:82062**

Baldi, Giacomo (*with* Burioni, Raffaella; Cassi, Davide) Localized states on comb lattices. (English summary) **2005j:82030**

Barbosa, Valmir C. (*with* Donangelo, Raul; Souza, Sergio R.) Directed cycles and related structures in random graphs. II. Dynamic properties. (English summary) **2005b:82030**

Bauer, Michel *see* **Coulomb, Stéphane, 2005k:82027**

Ben-Naim, Eli (*with* Krapivsky, Paul L.) Unicyclic components in random graphs. (English summary) **2005c:82036**

Berkowitz, Brian *see* **Margolin, G. L., 2005b:82035**

Bertuola, A. C. (*with* de Carvalho, J. X.; Hussein, M. S.; Pato, M. P.; Sargeant, A. J.) Level density for deformations of the Gaussian orthogonal ensemble. (English summary) **2005m:82052**

Blanchard, Philippe (*with* Hongler, M.-O.) Quantum random walks and piecewise deterministic evolutions. (English summary) **2005d:82040**

Bleher, Pavel (*with* Kuijlaars, Arno B. J.) Large n limit of Gaussian random matrices with external source. I. (English summary) **2005i:82031**

Blower, Gordon Displacement convexity for the generalized orthogonal ensemble. (English summary) **2005m:82053**

Bollt, Erik M. *see* **Rozenfeld, Hernán D. et al., 2005m:82062**

Borodin, A. M. (*with* Boyarchenko, Dmitriy) Distribution of the first particle in discrete orthogonal polynomial ensembles. (English summary) **2005b:82031**

Boyarchenko, Dmitriy *see* **Borodin, A. M., 2005b:82031**

Brak, Richard (*with* Essam, J. W.) Asymmetric exclusion model and weighted lattice paths. (English summary) **2005f:82040**

Bray, Alan J. (*with* Winkler, Karen) Vicious walkers in a potential. (English summary) **2005d:82041**

Burda, Zdzisław (*with* Jurkiewicz, Jerzy Władysław; Krzywicki, Andrzej) Statistical mechanics of random graphs. (English summary) **2005m:82054**

Burioni, Raffaella *see* **Baldi, Giacomo et al., 2005j:82030**

de Carvalho, J. X. *see* **Bertuola, A. C. et al., 2005m:82052**

Cassi, Davide *see* **Baldi, Giacomo et al., 2005j:82030**

Cavalcanti, Welchy L. *see* **Serra, Pablo et al., 2005d:82046**

Chang, Shu-Chiuan (*with* Shrock, Robert) Reliability polynomials and their asymptotic limits for families of graphs. (English summary) **2005e:82041**

Coulomb, Stéphane (*with* Bauer, Michel) On certain perturbations of the Erdös-Renyi random graph. (English summary) **2005k:82027**

Destri, Claudio *see* **Donetti, Luca, 2005g:82051**

Dhar, Deepak *see* **Rajesh, R., 2005m:82061**

Diao, Yuanan (*with* Dobay, A.; Kusner, Robert B.; Millett, K.; Stasiak, Andrzej) The average crossing number of equilateral random polygons. (English summary) **2005a:82039**

Di Francesco, P. Rectangular matrix models and combinatorics of colored graphs. (English summary) **2005b:82032**

Djordjević, B. *see* **Živić, I. et al., 2005h:82049**

Dobay, A. *see* **Diao, Yuanan et al., 2005a:82039**

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Donetti, Luca (*with* Destri, Claudio) The statistical geometry of scale-free random trees. (English summary) **2005g:82051**

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Doye, Jonathan P. K. (*with* Massen, Claire P.) Self-similar disk packings as model spatial scale-free networks. (English summary) **2005m:82056**

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— *see also* **Soshnikov, Alexander, 2005k:82034**

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— *see also* **Rogers, A. N. et al., 2005b:82036**

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— (*with* Rechnitzer, Andrew) Multiple Markov chain Monte Carlo study of adsorbing self-avoiding walks in two and in three dimensions. (English summary)

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King, Oliver D. Comment on: "Subgraphs in random networks" [Phys. Rev. E (3) **68** (2003), no. 2, 026127, 8 pp.; MR2010075 (2004h:05118)] by S. Itzkovitz, R. Milo, N. Kashtan, G. Ziv and U. Alon. (English summary) **2005k:05219**
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Rudnick, Joseph (*with* Gaspari, George) ★ Elements of the random walk. **2005b:60001**
Salmhofer, M. *see* **Landim, Claudio et al., 2005a:60118**
Samukhin, Alexander N. *see* **Dorogovtsev, Sergei N. et al., 2005d:05132**
Sanders, Barry C. *see* **Kendon, Viv, 2005k:82006**
Sarkar, Anish *see* **Gangopadhyay, Sreela et al., 2005i:60194**
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Siegelmann, Hava T. *see* **Ben-Hur, Asa et al., 2005a:82050**
Sisko, V. *see* **Menshikov, M. V. et al., 2005h:60310**
Slade, Gordon *see* **Hara, Takashi et al., 2005c:60130**
Sood, V. (*with* Redner, Sidney; ben-Avraham, Daniel) First-passage properties of the Erdős-Renyi random graph. (English summary)
Stanley, H. Eugene *see* **Carbone, Anna**
Stroganov, Yu. G. *see* **Razumov, A. V., 2005m:05017**
Sukhanov, A. D. *see* **Oksak, A. I., 2005b:82013**
Tierz, Miguel *see* **de Haro, Sebastian, 2005i:58045**
Toom, André Non-ergodicity in a 1-D particle process with variable length. (English summary) **2005g:82091**
Topchiĭ, V. A. (*with* Vatutin, Vladimir A.) Two-dimensional limit theorem for a critical catalytic branching random walk. (English summary) **2005i:60172**
Tsirelson, Boris Scaling limit, noise, stability. (English summary) **2005g:60066**
Tsukahara, Hiroshi *see* **Yao, Akihisa et al., 2005f:82143**
Vachkovskaia, Marina *see* **Menshikov, M. V. et al., 2005h:60310**
Valiant, Paul Linear bounds on the North-East model and higher-dimensional analogs. (English summary) **2005d:82027**
Vasilchuk, V. *see* **Pastur, Leonid Andreevich, 2005j:60010**
Vatutin, Vladimir A. *see* **Topchiĭ, V. A., 2005i:60172**
Velenik, Yvan Entropic repulsion of an interface in an external field. (English summary) **2005f:82032**
— *see also* **Griniv, O. O., 2005i:82028**
Vernizzi, G. *see* **Akemann, G. et al., 2005b:81227**
Vezzani, Alessandro *see* **Burioni, Raffaella et al., 2005h:60019**
Wacław, Bartłomiej *see* **Burda, Zdzisław et al., 2005m:15065**
Watrous, John *see* **Bach, Eric et al., 2005h:81087**
(Weinberg, Steven) *see* **Statistical mechanics of membranes and surfaces, 2005f:82002**
Werner, Wendelin Random planar curves and Schramm-Loewner evolutions. (English summary) **2005m:60020**
Whittington, S. G. *see* **Orlandini, E., 2005c:82102** *and* **Iliev, Gerasim Kiril et al., 2005h:82124**
Wiese, Kay Jörg *see* **Pinnow, H. A., 2005m:82051**
Witte, N. S. *see* **Forrester, Peter J., 2005h:33047**
Yakimov, Milen *see* **Grünbaum, F. Alberto, 2005m:37158**
Yao, Akihisa (*with* Tsukahara, Hiroshi; Deguchi, Tetsuo; Inami, Takeo) Distribution of the distance between opposite nodes of random polygons with a fixed knot. (English summary) **2005f:82143**
Yau, Horng-Tzer *see* **Landim, Claudio et al., 2005a:60118**
Zeitouni, Ofer *see* **Comets, Francis, 2005i:60202**
Zhang, Xiao Min (*with* Li, Bo^7) Some probability properties of random walk in time-random environment. (English summary) **2005g:60169**
(Ziv, G.) *see* **King, Oliver D., 2005k:05219**
Zucca, Fabio *see* **Bertacchi, Daniela, 2005b:60117**

Items listed otherwise than by author

Jerusalem ★ Statistical mechanics of membranes and surfaces. **2005f:82002**
Statistical mechanics of membranes and surfaces ★ Statistical mechanics of membranes and surfaces. **2005f:82002**

82B43 Percolation [see also 60K35]

Aldous, David J. Percolation-like scaling exponents for minimal paths and trees in the stochastic mean field model. (English summary) **2005k:82036**
Andrade, José S., Jr. *see* **Soares, Danyel J. B. et al.**
Baldassarri, Andrea *see* **Desolneux, Agnès et al., 2005m:82064**
Booth, Lorna *see* **Franceschetti, Massimo et al., 2005k:82037**
Bromhal, Grant S. *see* **Ferer, M. et al., 2005j:82034**
Bruck, Jehoshua *see* **Franceschetti, Massimo et al., 2005k:82037**
Camia, Federico (*with* Newman, Charles M.; Sidoravicius, Vladas) A particular bit of universality: scaling limits of some dependent percolation models. (English summary) **2005d:82047**
— Scaling limit and critical exponents for two-dimensional bootstrap percolation. (English summary) **2005m:82063**
Cohen, Reuven (*with* Havlin, Shlomo) Fractal dimensions of percolating networks. (English summary) **2005b:82037**
Cook, Matthew *see* **Franceschetti, Massimo et al., 2005k:82037**
De Lima, Bernardo N. B. (*with* Procacci, Aldo) A note on anisotropic percolation. (English summary) **2005k:82039**
Desolneux, Agnès (*with* Sapoval, Bernard; Baldassarri, Andrea) Self-organized percolation power laws with and without fractal geometry in the etching of random solids. (English summary) **2005m:82064**
Dubédat, Julien Critical percolation in annuli and SLE_6. (English summary) **2005b:82038**
Favier, Charly Percolation model of fire dynamic. (English summary)
Ferer, M. (*with* Bromhal, Grant S.; Smith, Duane H.) Fractal dimension and avalanches of invasion percolation: the effect of aspect ratio. (English summary) **2005j:82034**
Foltin, G. (*with* Gnutzmann, Sven; Smilansky, U.) The morphology of nodal lines—random waves versus percolation. (English summary) **2005g:82055**
Franceschetti, Massimo (*with* Booth, Lorna; Cook, Matthew; Meester, Ronald; Bruck, Jehoshua) Continuum percolation with unreliable and spread-out connections. (English summary) **2005k:82037**
Gnutzmann, Sven *see* **Foltin, G. et al., 2005g:82055**
Gopalakrishnan, Manoj (*with* Schmittmann, B.; Zia, R. K. P.) Bond percolation of polymers. (English summary)
Havlin, Shlomo *see* **Cohen, Reuven, 2005b:82037**
Herrmann, Hans J. *see* **Soares, Danyel J. B. et al.**
Janssen, Hans-Karl (*with* Müller, Martin; Stenull, Olaf) Generalized epidemic process and tricritical dynamic percolation. (English summary) **2005k:82038**
Jensen, Iwan Low-density series expansions for directed percolation. III. Some two-dimensional lattices. (English summary) **2005e:82047**
— Low-density series expansions for directed percolation. IV. Temporal disorder. (English summary) **2005h:82050**
Jin, Zhun-Zhi *see* **Zhang, Yu-Xia et al.**
Kearney, Michael J. On a random area variable arising in discrete-time queues and compact directed percolation. (English summary) **2005f:82044**
Kovchegov, Y. The Brownian bridge asymptotics in the subcritical phase of Bernoulli bond percolation model. (English summary) **2005j:82035**
Lebovka, N. I. (*with* Manna, Subhrangshu Sekhar; Tarafdar, S.; Vygornitskii, N. V.) Percolation in deposits for competitive models in $(1 + 1)$-dimensions. (English summary)
Lübeck, S. (*with* Willmann, R. D.) Universal scaling behavior of directed percolation around the upper critical dimension. (English summary) **2005d:82048**
Manna, Subhrangshu Sekhar *see* **Lebovka, N. I. et al.**
Meester, Ronald *see* **Franceschetti, Massimo et al., 2005k:82037**
Moloney, Nicholas R. *see* **Pruessner, Gunnar, 2005b:82039**
Müller, Martin *see* **Janssen, Hans-Karl et al., 2005k:82038**
Newman, Charles M. *see* **Camia, Federico et al., 2005d:82047**
Procacci, Aldo (*with* Scoppola, Benedetto) Infinite graphs with a nontrivial bond percolation threshold: some sufficient conditions. (English summary) **2005e:82048**
— *see also* **De Lima, Bernardo N. B., 2005k:82039**
Pruessner, Gunnar (*with* Moloney, Nicholas R.) Winding clusters in percolation on the torus and the Möbius strip. (English summary) **2005b:82039**
Sang, Jian-Ping *see* **Zhang, Yu-Xia et al.**
Sapoval, Bernard *see* **Desolneux, Agnès et al., 2005m:82064**
Schmittmann, B. *see* **Gopalakrishnan, Manoj et al.**
Scoppola, Benedetto *see* **Procacci, Aldo, 2005e:82048**
Sidoravicius, Vladas *see* **Camia, Federico et al., 2005d:82047**
Smilansky, U. *see* **Foltin, G. et al., 2005g:82055**
Smith, Duane H. *see* **Ferer, M. et al., 2005j:82034**

Soares, Danyel J. B. (*with* Andrade, José S., Jr.; Herrmann, Hans J.) Precise calculation of the threshold of various directed percolation models on a square lattice. (English summary)
Stenull, Olaf *see* **Janssen, Hans-Karl et al., 2005k:82038**
Tarafdar, S. *see* **Lebovka, N. I. et al.**
Vezzani, Alessandro Percolation on the average and spontaneous magnetization for q-states Potts model on graph. (English summary) **2005a:82044**
Vygornitskii, N. V. *see* **Lebovka, N. I. et al.**
Willmann, R. D. *see* **Lübeck, S., 2005d:82048**
Zhang, Yu-Xia (*with* Sang, Jian-Ping; Zou, Xian-Wu; Jin, Zhun-Zhi) Random walk on percolation under an external field. (English summary)
Zia, R. K. P. *see* **Gopalakrishnan, Manoj et al.**
Zou, Xian-Wu *see* **Zhang, Yu-Xia et al.**

Items with secondary classifications in 82B43

Bagley, J. *see* **Deijfen, Maria et al., 2005g:60161**
Balister, Paul N. (*with* Bollobás, Béla; Walters, Mark) Continuum percolation with steps in an annulus. (English summary) **2005j:60179**
Bauer, Michel *see* **Coulomb, Stéphane, 2005k:82027**
Biskup, Marek On the scaling of the chemical distance in long-range percolation models. (English summary) **2005k:60296**
Blanchard, Philippe (*with* Gandolfo, D.; Ruiz, Jean; Shlosman, Senya B.) On the Euler-Poincaré characteristic of the random cluster model. (English summary) **2005f:60210**
Bollobás, Béla *see* **Balister, Paul N. et al., 2005j:60179**
Braga, G. A. (*with* Procacci, Aldo; Sanchis, R.) Ornstein-Zernike behavior for the Bernoulli bond percolation on $\mathbb{Z}^d$ in the supercritical regime. (English summary) **2005m:60227**
Burioni, Raffaella (*with* Cassi, Davide; Neri, F. M.) Electrical circuits on mesoscopic Sierpinski gaskets. (English summary)
— *see also* **Vezzani, Alessandro et al., 2005h:82026**
Camia, Federico (*with* Newman, Charles M.) The percolation transition in the zero-temperature Domany model. (English summary) **2005a:82032**
Cardy, John Conformal invariance in percolation, self-avoiding walks, and related problems. (English summary) **2005e:82035**
Cassi, Davide *see* **Vezzani, Alessandro et al., 2005h:82026** *and* **Burioni, Raffaella et al.**
Černý, Jiří Critical path analysis for continuum percolation. (English and French summaries) **2005k:60297**
Cheng, Rulian *see* **Wierman, John C. et al., 2005i:05179**
Coulomb, Stéphane (*with* Bauer, Michel) On certain perturbations of the Erdős-Renyi random graph. (English summary) **2005k:82027**
Couronné, Olivier (*with* Messikh, Reda Jürg) Surface order large deviations for 2D FK-percolation and Potts models. (English summary) **2005e:60058**
Deijfen, Maria (*with* Häggström, Olle) Coexistence in a two-type continuum growth model. (English summary) **2005k:60299**
— (*with* Häggström, Olle; Bagley, J.) A stochastic model for competing growth on $\mathbf{R}^d$. (English summary) **2005g:60161**
E, Wei-nan (*with* Yue, Xing Y.) Heterogeneous multiscale method for locally self-similar problems. (English summary) **2005e:82057**
Gandolfo, D. *see* **Blanchard, Philippe et al., 2005f:60210**
Garet, Olivier (*with* Marchand, Régine) Asymptotic shape for the chemical distance and first-passage percolation on the infinite Bernoulli cluster. (English summary) **2005i:60195**
Häggström, Olle Uniqueness of infinite rigid components in percolation models: the case of nonplanar lattices. (English summary) **2005b:60257**
— *see also* **Deijfen, Maria et al., 2005g:60161** *and* **2005k:60299**
Hammond, Alan Critical exponents in percolation via lattice animals. (English summary) **2005k:60302**
Hara, Takashi (*with* van der Hofstad, Remco; Slade, Gordon) Critical two-point functions and the lace expansion for spread-out high-dimensional percolation and related models. (English summary) **2005c:60130**
Higuchi, Yasunari (*with* Takei, Masato) Some results on the phase structure of the two-dimensional Widom-Rowlinson model. **2005f:82016**
Hoffman, Christopher Coexistence for Richardson type competing spatial growth models. (English summary) **2005m:60235**
— Phase transition in dependent percolation. (English summary) **2005i:60196**
van der Hofstad, Remco *see* **Hara, Takashi et al., 2005c:60130**
Horridge, Paul (*with* Tribe, Roger) On stationary distributions for the KPP equation with branching noise. (English and French summaries) **2005m:60134**
Howard, C. Douglas Models of first-passage percolation. **2005b:60258**
Kahn, Jeff Inequality of two critical probabilities for percolation. (English summary) **2005b:60259**
Kesten, Harry First-passage percolation. **2005a:60157**
Krivulets, V. G. (*with* Polesskiĭ, V. P.) On estimates for the reliability of a monotone structure. (Russian. Russian summary) **2005g:93109**
Liu, Zhi Feng[2] *see* **Wang, Xiao-Hong**
Marchand, Régine *see* **Garet, Olivier, 2005i:60195**
May, William D. *see* **Wierman, John C. et al., 2005i:05179**
Messikh, Reda Jürg *see* **Couronné, Olivier, 2005e:60058**
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Newman, Charles M. *see* **Camia, Federico, 2005a:82032**
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Procacci, Aldo *see* **Braga, G. A. et al., 2005m:60227**
Ruiz, Jean *see* **Blanchard, Philippe et al., 2005f:60210**
Sakai, Akira[2] Mean-field behavior for the survival probability and the percolation point-to-surface connectivity. (English summary) **2005h:60302**
— Erratum on: "Mean-field behavior for the survival probability and the percolation point-to-surface connectivity" [J. Statist. Phys. **117** (2004), no. 1-2, 111–130; MR2098561 (2005h:60302)].
Sanchis, R. *see* **Braga, G. A. et al., 2005m:60227**
Shlosman, Senya B. *see* **Blanchard, Philippe et al., 2005f:60210**
Slade, Gordon *see* **Hara, Takashi et al., 2005c:60130**
Takei, Masato *see* **Higuchi, Yasunari, 2005f:82016**
Tribe, Roger *see* **Horridge, Paul, 2005m:60134**
Vezzani, Alessandro (*with* Cassi, Davide; Burioni, Raffaella) Average properties of combinatorial problems and thermodynamics of spin models on graphs. (English summary) **2005h:82026**
Walters, Mark *see* **Balister, Paul N. et al., 2005j:60179**
Wang, Xiao-Hong (*with* Liu, Zhi Feng[2]) The Forchheimer equation in two-dimensional percolation porous media. (English summary)
Wierman, John C. (*with* Cheng, Rulian; May, William D.) Estimating bond percolation thresholds using the substitution method. (English summary) **2005i:05179**
Yue, Xing Y. *see* **E, Wei-nan, 2005e:82057**
Zhang, Yu[1] On the infinite differentiability of the right edge in the supercritical oriented percolation. (English summary) **2005i:60200**

82B44 Disordered systems (random Ising models, random Schrödinger operators, etc.)

Ahmed, Zafar Gaussian-random ensembles of pseudo-Hermitian matrices. (English summary) **2005h:82051**
Andreanov, A. (*with* Barbieri, Francesca; Martin, O. C.) Large deviations in spin-glass ground-state energies. (English summary) **2005f:82045**
Aspelmeier, T. *see* **Yeo, Joonhyun et al., 2005m:82075**
Baik, Jinho (*with* Deift, Percy; Strahov, Eugene) Products and ratios of characteristic polynomials of random Hermitian matrices. (English summary) **2005g:82056**
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Barci, Daniel G. (*with* Oxman, Luis E.) Single superfield representation for mixed retarded and advanced correlators in disordered systems. (English summary) **2005e:82049**
Bardina, Xavier (*with* Márquez-Carreras, David; Rovira, Carles; Tindel, Samy) The p-spin interaction model with external field. (English summary) **2005m:82065**
Bellissard, Jean (*with* Magnen, J.; Rivasseau, Vincent) Supersymmetric analysis of a simplified two-dimensional Anderson model at small disorder. (English summary) **2005c:82040**
— Random matrix theory and the Anderson model. (English summary) **2005i:82033**
Bianchi, Alessandra (*with* Contucci, Pierluigi; Knauf, Andreas) Stochastically stable quenched measures. (English summary) **2005k:82040**
Bleher, Pavel (*with* Eynard, Bertrand) Double scaling limit in random matrix models and a nonlinear hierarchy of differential equations. (English summary) **2005c:82041**
Bodineau, Thierry (*with* Giacomin, Giambattista) On the localization transition of random copolymers near selective interfaces. (English summary) **2005g:82057**
Bolina, Oscar *see* **Wreszinski, Walter F., 2005f:82051**
Borg, J. L. (*with* Pulé, Joseph V.) Lifshits tails for random smooth magnetic vortices. (English summary) **2005h:82052**
Bourgain, Jean On localization for lattice Schrödinger operators involving Bernoulli variables. **2005g:82058**
— (*with* Wang, Wei Min[4]) Anderson localization for time quasi-periodic random Schrödinger and wave equations. (English summary) **2005m:82066**
Bovier, Anton (*with* Kurkova, Irina) Derrida's generalised random energy models. I. Models with finitely many hierarchies. (English and French summaries) **2005h:82053**
— (*with* Kurkova, Irina) Derrida's generalized random energy models. II. Models with continuous hierarchies. (English and French summaries) **2005h:82054**
— (*with* Külske, Christof) Coarse-graining techniques for (random) Kac models. (English summary) **2005m:82067**
Byshkin, M. S. (*with* Turkin, A. A.) A new method for the calculation of the conductivity of inhomogeneous systems. (English summary) **2005m:82068**
Caselle, Michele (*with* Magnea, U.) Random matrix theory and symmetric spaces. (English summary) **2005d:82049**
Ciliberti, Stefano (*with* Marinari, Enzo) A quantitative clustering approach to ultrametricity in spin glasses. (English summary) **2005b:82040**
Comets, Francis (*with* Shiga, Tokuzo; Yoshida, Nobuo) Probabilistic analysis of directed polymers in a random environment: a review. (English summary) **2005d:82050**
Contucci, Pierluigi (*with* Graffi, Sandro) On the surface pressure for the Edwards-Anderson model. (English summary) **2005f:82046**
— (*with* Graffi, Sandro) Convex replica symmetry breaking from positivity and thermodynamic limit. (English summary) **2005c:82042**
— (*with* Graffi, Sandro) Monotonicity and thermodynamic limit for short range disordered models. (English summary) **2005b:82041**
— *see also* **Morita, Satoshi et al., 2005c:82047** *and* **Bianchi, Alessandra et al., 2005k:82040**
Coolen, A. C. C. *see* **Nikoletopoulos, T., 2005f:82050**
Damanik, David (*with* Sims, Robert; Stolz, Günter) Localization for discrete one-dimensional random word models. (English summary) **2005e:82050**
Datta, Nilanjana (*with* Kunz, Hervé) A random matrix approach to the crossover of energy-level statistics from Wigner to Poisson. (English summary) **2005h:82055**
Dean, David S. (*with* Lancaster, David; Majumdar, Satya N.) The statistical mechanics of travelling salesman type problems. (English summary) **2005j:82036**
Deift, Percy Four lectures on random matrix theory. **2005g:82059**
— *see also* **Baik, Jinho et al., 2005g:82056**
Dhar, Deepak (*with* Pradhan, Punyabrata) Probability distribution of residence times of grains in sand-pile models. (English summary) **2005h:82056**
Dorlas, Teunis C. (*with* Pulé, Joseph V.) Invariant measures for one-dimensional Anderson localisation. (English summary) **2005h:82057**
— (*with* Pulé, Joseph V.) The invariant measures at weak disorder for the two-line Anderson model. (English summary) **2005f:82047**
Engel, Andreas (*with* Monasson, Rémi; Hartmann, Alexander K.) On large deviation properties of Erdős-Rényi random graphs. (English summary) **2005g:82060**
Ercolani, Nicholas M. (*with* McLaughlin, Kenneth D. T.-R.) Asymptotics of the partition function for random matrices via Riemann-Hilbert techniques and applications to graphical enumeration. **2005f:82048**
Eynard, Bertrand Master loop equations, free energy and correlations for the chain of matrices. (English summary) **2005k:82041**

— *see also* **Bleher, Pavel**, 2005c:82041
Ferrari, Christian (*with* Macris, Nicolas) Spectral properties of finite quantum Hall systems. (English summary) **2005h:82058**
Forrester, Peter J. (*with* Frankel, N. E.; Garoni, T. M.) Random matrix averages and the impenetrable Bose gas in Dirichlet and Neumann boundary conditions. (English summary) **2005m:82069**
— (*with* Keating, Jonathan P.) Singularity dominated strong fluctuations for some random matrix averages. (English summary) **2005h:82059**
Frankel, N. E. *see* **Forrester, Peter J. et al.**, 2005m:82069
Franz, Silvio (*with* Toninelli, Fabio Lucio) Finite-range spin glasses in the Kac limit: free energy and local observables. (English summary) **2005g:82061**
— (*with* Toninelli, Fabio Lucio) A field-theoretical approach to the spin glass transition: models with long but finite interaction range. (English summary) **2005h:82060**
Fukui, Takahiro *see* **Yamada, Hiroki**, 2005a:82049
Fyodorov, Yan V. (*with* Strahov, Eugene) An exact formula for general spectral correlation function of random Hermitian matrices. (English summary) **2005b:82042**
— *see also* **Strahov, Eugene**, 2005e:82056
Gao, David Yang (*with* Li, Jie-Fang; Viehland, D.) Tri-duality theory in phase transformations of ferroelectric crystals with random defects. (English summary) **2005h:82061**
Garoni, T. M. *see* **Forrester, Peter J. et al.**, 2005m:82069
Gärtner, Jürgen (*with* König, Wolfgang) The parabolic Anderson model. (English summary) **2005k:82042**
Germinet, François (*with* Klein, Abel) High disorder localization for random Schrödinger operators through explicit finite volume criteria. (English summary) **2005d:82051**
— (*with* Klein, Abel) A characterization of the Anderson metal-insulator transport transition. (English summary) **2005e:82051**
Giacomin, Giambattista *see* **Bodineau, Thierry**, 2005g:82057
Graffi, Sandro *see* **Contucci, Pierluigi**, 2005b:82041; 2005c:82042 *and* 2005f:82046
Gruber, Christian (*with* Zagrebnov, Valentin A.) Random-field quantum spherical ferroelectric model. (English summary) **2005d:82052**
Gudowska-Nowak, Ewa (*with* Janik, Romuald A.; Jurkiewicz, Jerzy Władysław; Nowak, Maciej A.) Infinite products of large random matrices and matrix-valued diffusion. (English summary) **2005b:82043**
Guerra, Francesco (*with* Toninelli, Fabio Lucio) The high temperature region of the Viana-Bray diluted spin glass model. (English summary) **2005d:82053**
Guionnet, Alice First order asymptotics of matrix integrals; a rigorous approach towards the understanding of matrix models. (English summary) **2005c:82043**
Häggström, Olle Is the fuzzy Potts model Gibbsian? (English and French summaries) **2005f:82049**
Hartmann, Alexander K. *see* **Engel, Andreas et al.**, 2005g:82060
Hislop, Peter D. (*with* Klopp, Frédéric) The integrated density of states for some random operators with nonsign definite potentials. (English summary) **2005a:82045**
Hundertmark, Dirk (*with* Kirsch, Werner; Warzel, Simone) Classical magnetic Lifshits tails in three space dimensions: impurity potentials with slow anisotropic decay. (English summary) **2005c:82044**
Jakšić, Vojkan (*with* Last, Yoram) Scattering from subspace potentials for Schrödinger operators on graphs. (English summary) **2005g:82062**
Janik, Romuald A. *see* **Gudowska-Nowak, Ewa et al.**, 2005b:82043
Joye, Alain Density of states and Thouless formula for random unitary band matrices. (English summary) **2005g:82063**
Jurkiewicz, Jerzy Władysław *see* **Gudowska-Nowak, Ewa et al.**, 2005b:82043
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Kellendonk, Johannes Topological quantization of boundary forces and the integrated density of states. (English summary) **2005b:82044**
Kirsch, Werner (*with* Veselić, Ivan) Existence of the density of states for one-dimensional alloy-type potentials with small support. (English summary) **2005c:82045**
— (*with* Molchanov, Stanislav Alekseevich; Pastur, Leonid Andreevich; Vainberg, B.) Quasi 1D localization: deterministic and random potentials. (English summary) **2005j:82037**
— *see also* **Hundertmark, Dirk et al.**, 2005c:82044
Klein, Abel *see* **Germinet, François**, 2005d:82051 *and* 2005e:82051
Klein, Silvius[2] Anderson localization for the discrete one-dimensional quasi-periodic Schrödinger operator with potential defined by a Gevrey-class function. (English summary) **2005m:82070**
Klopp, Frédéric (*with* Wolff, Thomas H.) Lifshitz tails for 2-dimensional random Schrödinger operators. (English summary) **2005c:82046**
— (*with* Nakamura, Shu; Nakano, Fumihiko; Nomura, Yuji) Anderson localization for 2D discrete Schrödinger operators with random magnetic fields. (English summary) **2005a:82046**
— *see also* **Hislop, Peter D.**, 2005a:82045
Knauf, Andreas *see* **Bianchi, Alessandra et al.**, 2005k:82040
König, Wolfgang *see* **Gärtner, Jürgen**, 2005k:82042
Konik, Robert M. Kondo-Fano resonances in quantum dots: results from the Bethe ansatz. (English summary) **2005h:82062**
Kotani, Shinichi A thermodynamic limit of relative Fredholm determinant of Green operators for random Schrödinger operators. (English summary) **2005g:82064**
Kozyrev, Sergei The noncommutative replica procedure. (English summary) **2005a:82047**
Kratz, Marie F. (*with* Picco, Pierre) A representation of Gibbs measure for the random energy model. (English summary) **2005d:82054**
Kravtsov, Vladimir E. *see* **Yevtushenko, Oleg**, 2005f:82052
Külske, Christof Analogues of non-Gibbsianness in joint measures of disordered mean field models. (English summary) **2005d:82055**
— Regularity properties of potentials for joint measures of random spin systems. (English summary) **2005m:82071**
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Last, Yoram *see* **Jakšić, Vojkan**, 2005g:82062
Ławrynowicz, Julian (*with* Suzuki, Osamu) From order-disorder surface phenomena to graded fractal bundles related to complex and Pauli structures. (English and Polish summaries) **2005h:82064**
Lenz, Daniel (*with* Peyerimhoff, Norbert; Veselić, Ivan) Random Schrödinger operators on manifolds. (English summary) **2005e:82052**
Leschke, Hajo (*with* Müller, Peter[4]; Warzel, Simone) A survey of rigorous results on random Schrödinger operators for amorphous solids. (English summary) **2005j:82038**
Li, Jie-Fang *see* **Gao, David Yang et al.**, 2005h:82061
Macris, Nicolas *see* **Ferrari, Christian**, 2005h:82058
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Moore, Michael Arthur *see* **Yeo, Joonhyun et al.**, 2005m:82075
Morita, Satoshi (*with* Nishimori, Hidetoshi; Contucci, Pierluigi) Griffiths inequalities for the Gaussian spin glass. (English summary) **2005c:82047**
Müller, Peter[4] *see* **Leschke, Hajo et al.**, 2005j:82038
Najar, Hatem Asymptotic behavior of the integrated density of states of acoustic operators with random long range perturbations. (English summary) **2005a:82048**
Nakamura, Shu *see* **Klopp, Frédéric et al.**, 2005a:82046
Nakano, Fumihiko (*with* Nomura, Yuji) Random magnetic fields on line graphs. (English summary) **2005g:82065**
— *see also* **Klopp, Frédéric et al.**, 2005a:82046
Nikoletopoulos, T. (*with* Coolen, A. C. C.) Diagonalization of replicated transfer matrices for disordered Ising spin systems. (English summary) **2005f:82050**
Nishimori, Hidetoshi *see* **Morita, Satoshi et al.**, 2005c:82047
Nomura, Yuji *see* **Klopp, Frédéric et al.**, 2005a:82046 *and* **Nakano, Fumihiko**, 2005g:82065
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Panchenko, Dmitriĭ Anatol'evich (*with* Talagrand, Michel) Bounds for diluted mean-fields spin glass models. (English summary) **2005j:82039**
Parisi, Giorgio (*with* Talagrand, Michel) On the distribution of the overlaps at given disorder. (English and French summaries) **2005e:82053**
— (*with* Rizzo, Tommaso) On supersymmetry breaking in the computation of the complexity. (English summary) **2005e:82054**
Pastur, Leonid Andreevich On the thermodynamic limit for disordered spin systems. (English summary) (*see* **2005c:46002**)
— *see also* **Kirsch, Werner et al.**, 2005j:82037
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Sachdev, Subir Quantum impurity in a magnetic environment. (English summary)
Schilling, Rolf Theories of the structural glass transition. (*see* **2005i:82001**)
Schrader, Robert (*with* Schulz-Baldes, Hermann; Sedrakyan, Ara G.) Perturbative test of single parameter scaling for 1D random media. (English summary) **2005h:82065**
Schulz-Baldes, Hermann Lifshitz tails for the 1D Bernoulli-Anderson model. (English summary) **2005e:82055**
— *see also* **Schrader, Robert et al.**, 2005h:82065
Sedrakyan, Ara G. *see* **Schrader, Robert et al.**, 2005h:82065
Shcherbina, M. (*with* Tirozzi, Brunello) Central limit theorems for order parameters of the Gardner problem. (English summary) **2005i:82034**
— (*with* Tirozzi, Brunello) Central limit theorems for the free energy of the modified Gardner model. (English summary) **2005m:82072**
Shiga, Tokuzo *see* **Comets, Francis et al.**, 2005d:82050
Shukla, Pragya Random matrices with correlated elements: a model for disorder with interactions. (English summary) **2005m:82073**
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Stojanovic, Alexandre Errata: "Universality in orthogonal and symplectic invariant matrix models with quartic potential" [Math. Phys. Anal. Geom. **3** (2000), no. 4, 339–373; MR1845356 (2002k:15049)]. (English summary) **2005h:82066**
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— *see also* **Fyodorov, Yan V.**, 2005b:82042 *and* **Baik, Jinho et al.**, 2005g:82056
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Talagrand, Michel ★ Spin glasses: a challenge for mathematicians. **2005m:82074**
— Mean field models for spin glasses: a first course. **2005b:82045**
— On Guerra's broken replica-symmetry bound. (English and French summaries) **2005b:82046**
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— *see also* **Parisi, Giorgio**, 2005e:82053 *and* **Panchenko, Dmitriĭ Anatol'evich**, 2005j:82039
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Vainberg, B. *see* **Kirsch, Werner et al., 2005j:82037**
Van Siclen, Clinton D. Force structure of frictionless granular piles. (English summary) **2005g:82067**
Vasilchuk, V. On the asymptotic distribution of the commutator and anticommutator of random matrices. (English summary) **2005b:82047**
Veselić, Ivan Integrated density of states and Wegner estimates for random Schrödinger operators. (English summary) **2005b:82048**
— *see also* **Kirsch, Werner, 2005c:82045** *and* **Lenz, Daniel et al., 2005e:82052**
Viehland, D. *see* **Gao, David Yang et al., 2005h:82061**
Voznyak, O. (*with* Tkachuk, Volodymyr M.) A quasi-exactly solvable disordered Kronig-Penney model. (Ukrainian. English and Ukrainian summaries) **2005h:82068**
Wang, Wei Min[4] *see* **Bourgain, Jean, 2005m:82066**
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Wolff, Thomas H. *see* **Klopp, Frédéric, 2005c:82046**
Wreszinski, Walter F. (*with* Bolina, Oscar) A self-averaging "order parameter" for the Sherrington-Kirkpatrick spin glass model. (English summary) **2005f:82051**
Yamada, Hiroaki[1] Delocalization and sensitivity of quantum wavepacket in coherently perturbed kicked Anderson model. (English summary) **2005j:82040**
Yamada, Hiroki (*with* Fukui, Takahiro) Random hopping fermions on bipartite lattices: density of states, inverse participation ratios, and their correlations in a strong disorder regime. (English summary) **2005a:82049**
Yarotskiĭ, D. A. Scattering of quasi-particle excitations in weakly coupled stochastic lattice spin systems. (English summary) **2005i:82035**
Yeo, Joonhyun (*with* Moore, Michael Arthur; Aspelmeier, T.) Nature of perturbation theory in spin glasses. (English summary) **2005m:82075**
Yevtushenko, Oleg (*with* Kravtsov, Vladimir E.) Density of states for almost-diagonal random matrices. (English summary) **2005f:82052**
Yoshida, Nobuo *see* **Comets, Francis et al., 2005d:82050**
Zagrebnov, Valentin A. *see* **Gruber, Christian, 2005d:82052**

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Andreoletti, Pierre Alternative proof for the localization of Sinai's walk. (English summary) **2005m:60241**
Anglès d'Auriac, J.-Ch. *see* **Mercaldo, M. T. et al.**
Ardonne, Eddy (*with* Fendley, Paul; Fradkin, Eduardo) Topological order and conformal quantum critical points. (English summary) **2005b:81124**
Baldi, Giacomo (*with* Burioni, Raffaella; Cassi, Davide) Localized states on comb lattices. (English summary) **2005j:82030**
Balents, Leon (*with* Le Doussal, Pierre) Thermal fluctuations in pinned elastic systems: field theory of rare events and droplets. (English summary) **2005h:82041**
Bardina, Xavier (*with* Márquez-Carreras, David; Rovira, Carles; Tindel, Samy) Higher order expansions for the overlap of the SK model. (English summary) **2005i:82030**
Barreto, Stephen Dias (*with* Fidaleo, Francesco) On the structure of KMS states of disordered systems. (English summary) **2005h:82006**
Battaglia, Demian (*with* Kolář, Michal; Zecchina, Riccardo) Minimizing energy below the glass thresholds. (English summary) **2005j:68051**
Bertini, Lorenzo (*with* Cirillo, Emilio N. M.; Olivieri, Enzo) Gibbsian properties and convergence of the iterates for the block averaging transformation. (English summary) **2005e:82039**
Blanchard, Philippe (*with* Gandolfo, D.; Ruiz, Jean; Shlosman, Senya B.) On the Euler-Poincaré characteristic of the random cluster model. (English summary) **2005f:60210**
Blower, Gordon Transportation of measure, Young diagrams and random matrices. (English summary) **2005i:60027**
Boettcher, Stefan Efficient local search near phase transitions in combinatorial optimization. (English summary) **2005b:68121**
Bourgain, Jean Recent progress in quasi-periodic lattice Schrödinger operators and Hamiltonian partial differential equations. (Russian. Russian summary) **2005b:47070**
— ★ Green's function estimates for lattice Schrödinger operators and applications. **2005j:35184**
Boutet de Monvel-Berthier, Anne-Marie (*with* Stollmann, Peter) Dynamical localization for continuum random surface models. (English summary) **2005b:81036**
— (*with* Stollmann, Peter; Stolz, Günter) Absence of continuous spectral types for certain non-stationary random Schrödinger operators. (English summary) **2005m:81091**
Brémont, Julien Behavior of random walks on $\mathbb{Z}$ in Gibbsian medium. (English and French summaries) **2005e:60235**
Brunet, Éric (*with* Derrida, Bernard) Exactly soluble noisy traveling-wave equation appearing in the problem of directed polymers in a random medium. (English summary) **2005j:82083**
Burda, Zdzisław (*with* Görlich, Andrzej Tomasz; Jarosz, A.; Jurkiewicz, Jerzy Władysław) Signal and noise in correlation matrix. (English summary)
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Campanino, Massimo (*with* Petritis, Dimitri) Random walks on randomly oriented lattices. (English summary) **2005b:60119**
Caracciolo, Sergio (*with* Sportiello, Andrea) General duality for abelian-group-valued statistical-mechanics models. (English summary) **2005i:82006**
Carmona, Philippe (*with* Hu, Yueyun) Fluctuation exponents and large deviations for directed polymers in a random environment. (English summary) **2005f:60218**
Carmona, René (*with* Grishin, Stanislav A.; Molchanov, Stanislav Alekseevich) Asymptotics for the boundary parabolic Anderson problem in a half space. (English summary) **2005e:35263**
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Combes, Jean-Michel (*with* Hislop, Peter D.; Klopp, Frédéric; Raĭkov, George D.) Global continuity of the integrated density of states for random Landau Hamiltonians. (English summary) **2005g:81091**
Comets, Francis (*with* Popov, S. Yu.) Limit law for transition probabilities and moderate deviations for Sinai's random walk in random environment. (English summary) **2005d:60157**
— (*with* Zeitouni, Ofer) A law of large numbers for random walks in random mixing environments. (English summary) **2005i:60202**
— (*with* Popov, S. Yu.) A note on quenched moderate deviations for Sinai's random walk in random environment. (English summary) **2005h:60305**
— (*with* Kurkova, Irina; Trashorras, José) Fluctuations of the free energy in the high temperature Hopfield model. (English summary) **2005f:60211**
— (*with* Yoshida, Nobuo) Brownian directed polymers in random environment. (English summary) **2005m:60242**
Contucci, Pierluigi (*with* Giardinà, Cristian; Pulé, Joseph V.) The thermodynamic limit for finite dimensional classical and quantum disordered systems. (English summary) **2005b:82017**
Coppersmith, Don (*with* Gamarnik, David; Hajiaghayi, Mohammad Taghi; Sorkin, Gregory B.) Random MAX SAT, random MAX CUT, and their phase transitions. (English summary) **2005c:68088**
Cugliandolo, Leticia F. (*with* Lozano, G. S.; Moreno, Enrique F.; Schaposnik, Fidel A.) A note on Gaussian integrals over para-Grassmann variables. (English summary) **2005a:58017**
Damanik, David (*with* Cheremshantsev, S. E.) Power-law bounds on transfer matrices and quantum dynamics in one dimension. (English summary) **2005b:81038**
Dermoune, Azzouz (*with* Heinrich, Philippe) A small step towards the hydrodynamic limit of a colored disordered lattice gas. (English and French summaries) **2005h:60294**
Derrida, Bernard *see* **Brunet, Éric, 2005j:82083**
Donev, Aleksandar Nikola (*with* Torquato, Salvatore; Stillinger, Frank H.) Pair correlation function characteristics of nearly jammed disordered and ordered hard-sphere packings. (English summary) **2005m:82055**
Engländer, János (*with* den Hollander, Frank) Survival asymptotics for branching Brownian motion in a Poissonian trap field. (English summary) **2005e:60186**
Escobar, C. Ourivio *see* **Santos, L. F. et al., 2005a:81033**
Fedotov, Aleksandr A. (*with* Klopp, Frédéric) On the singular spectrum for adiabatic quasi-periodic Schrödinger operators on the real line. (English and French summaries) **2005j:34119**
Fendler, Bernard (*with* Sknepnek, Rastko; Vojta, Thomas) Dynamics at a smeared phase transition. (English summary)
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Fontes, Luiz R. G. (*with* Vachkovskaia, Marina; Yambartsev, A. A.) Entropic repulsion on a rarefied wall. (English summary) **2005a:60021**
Forrester, Peter J. (*with* Frankel, N. E.; Garoni, T. M.; Witte, N. S.) Painlevé transcendent evaluations of finite system density matrices for 1d impenetrable bosons. (English summary) **2005c:82011**
— *see also* **Nagao, Taro, 2005e:82104**
Fradkin, Eduardo *see* **Ardonne, Eddy et al., 2005b:81124**
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Girko, V. L. The strong circular law. Twenty years later. I. (English summary) **2005e:60077**
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den Hollander, Frank (*with* Toninelli, Fabio Lucio) A mystery about to be solved. (English summary)
— *see also* **Engländer, János, 2005e:60186**
Hsu, Hsiao-Ping (*with* Nadler, Walter; Grassberger, Peter) Simulations of lattice animals and trees. (English summary) **2005i:82036**
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Huillet, Thierry Energy cascades as branching processes with emphasis on Neveu's approach to Derrida's random energy model. (English summary) **2005k:60236**
Iglói, Ferenc (*with* Monthus, Cécile) Strong disorder RG approach of random systems. (English summary) **2005m:82050**
— *see also* **Mercaldo, M. T. et al.**
Jakšić, Vojkan (*with* Last, Yoram) A new proof of Poltoratskii's theorem. (English summary) **2005d:47027**
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Kantz, Holger *see* **Santhanam, M. S.**
Khorunzhiĭ, A. M. Limit theorem for sums of products of random variables. (English summary) **2005f:60077**
— (*with* Shcherbina, M.; Vengerovskiĭ, V. V.) Eigenvalue distribution of large weighted random graphs. (English summary) **2005h:05186**
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Komazawa, Takayoshi *see* **Seino, Mitsuhiro**
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Krasovsky, I. V. Gap probability in the spectrum of random matrices and asymptotics of polynomials orthogonal on an arc of the unit circle. **2005d:60086**
Krutikov, Denis Schrödinger operators with random sparse potentials. Existence of wave operators. (English summary) **2005d:81137**
Kühn, Reimer Gibbs vs. non-Gibbs in the equilibrium ensemble approach to disordered systems. (English summary)

Külske, Christof (*with* Le Ny, Arnaud; Redig, Frank) Relative entropy and variational properties of generalized Gibbsian measures. (English summary) **2005b:60130**
Kurkova, Irina *see* **Comets, Francis et al., 2005f:60211**
Landim, Claudio (*with* Noronha Neto, J.) Poincaré and logarithmic Sobolev inequality for Ginzburg-Landau processes in random environment. (English summary) **2005k:60313**
Last, Yoram *see* **Jakšić, Vojkan, 2005d:47027**
Leboeuf, P. Periodic orbit spectrum in terms of Ruelle-Pollicott resonances. (English summary) **2005g:37120**
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— *see also* Schehr, Gregory, 2005a:82036 *and* **Balents, Leon, 2005h:82041**
Le Ny, Arnaud *see* **Külske, Christof et al., 2005b:60130**
Lenz, Daniel (*with* Peyerimhoff, Norbert; Veselić, Ivan) Integrated density of states for random metrics on manifolds. **2005d:58046**
Li, Bo[7] *see* **Zhang, Xiao Min, 2005g:60169**
Lozano, G. S. *see* **Cugliandolo, Leticia F. et al., 2005a:58017**
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Mercaldo, M. T. (*with* Anglès d'Auriac, J.-Ch.; Iglói, Ferenc) Disorder-induced rounding of the phase transition in the large-q-state Potts model. (English summary)
Molchanov, Stanislav Alekseevich *see* **Carmona, René et al., 2005e:35263**
Montambaux, Gilles *see* **Texier, Christophe, 2005j:82041**
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Moreno, Enrique F. *see* **Cugliandolo, Leticia F. et al., 2005a:58017**
Mueller, Carl E. (*with* Tribe, Roger) A singular parabolic Anderson model. (English summary) **2005b:60157**
Nadler, Walter *see* **Hsu, Hsiao-Ping et al., 2005i:82036**
Nagao, Taro (*with* Forrester, Peter J.) Dynamical correlations for circular ensembles of random matrices. (English summary) **2005e:82104**
Nechaev, Sergei (*with* Vasilyev, Oleg A.) On the metric structure of ultrametric spaces. (English summary) **2005g:11261**
Normand, Jean-Marie Calculation of some determinants using the s-shifted factorial. (English summary) **2005h:33004**
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Ryzhov, V. N. (*with* Tareeva, E. E.; Shchelkacheva, T. I.; Shchelkachev, N. M.) Liquid-glass transition in a simple cluster model. (Russian. Russian summary) **2005k:82021**
Santhanam, M. S. (*with* Kantz, Holger) Random matrix approach to multivariate correlations: some limiting cases. (English summary)
Santos, L. F. (*with* Rigolin, G.; Escobar, C. Ourivio) Entanglement versus chaos in disordered spin chains. (English summary) **2005a:81033**
Schaposnik, Fidel A. *see* **Cugliandolo, Leticia F. et al., 2005a:58017**
Schehr, Gregory (*with* Le Doussal, Pierre) Exact multilocal renormalization of the effective action: application to the random sine Gordon model statics and nonequilibrium dynamics. (English summary) **2005a:82036**
Schulz-Baldes, Hermann Perturbation theory for Lyapunov exponents of an Anderson model on a strip. (English summary) **2005g:47070**
Seino, Mitsuhiro (*with* Komazawa, Takayoshi) Continuous distribution of the effective fields and solution of Katsura 11K equation for $\pm J$ random Ising spin glass. (English summary)
Shchelkachev, N. M. *see* **Ryzhov, V. N. et al., 2005k:82021**
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Sknepnek, Rastko *see* **Fendler, Bernard et al.**
Sommers, Hans-Jürgen (*with* Życzkowski, Karol) Statistical properties of random density matrices. (English summary) **2005k:82007**
Sorkin, Gregory B. *see* **Coppersmith, Don et al., 2005c:68088**
Sportiello, Andrea *see* **Caracciolo, Sergio, 2005i:82006**
Stillinger, Frank H. *see* **Donev, Aleksandar Nikola et al., 2005m:82055**
Stollmann, Peter *see* **Boutet de Monvel-Berthier, Anne-Marie et al., 2005b:81036** *and* **2005m:81091**
Stolz, Günter *see* **Boutet de Monvel-Berthier, Anne-Marie et al., 2005m:81091**
Tareeva, E. E. *see* **Ryzhov, V. N. et al., 2005k:82021**
Texier, Christophe (*with* Montambaux, Gilles) Quantum oscillations in mesoscopic rings and anomalous diffusion. (English summary) **2005j:82041**
Tindel, Samy *see* **Bardina, Xavier et al., 2005i:82030**
Toninelli, Fabio Lucio *see* **den Hollander, Frank**
Torquato, Salvatore *see* **Donev, Aleksandar Nikola et al., 2005m:82055**
Trashorras, José *see* **Comets, Francis et al., 2005f:60211**
Tribe, Roger *see* **Mueller, Carl E., 2005b:60157**
Ueki, Naomasa Wegner estimates and localization for Gaussian random potentials. (English summary) **2005c:60084**
Vachkovskaia, Marina *see* **Fontes, Luiz R. G. et al., 2005a:60021** *and* **Menshikov, M. V. et al., 2005h:60310**
Vasilyev, Oleg A. *see* **Nechaev, Sergei, 2005g:11261**
Vengerovskiĭ, V. V. Asymptotics of the correlator of an ensemble of sparse random matrices. (Russian. English, Russian and Ukrainian summaries) **2005i:62090**
— *see also* Khorunzhiĭ, A. M. et al., 2005h:05186
Veselić, Ivan *see* **Lenz, Daniel et al., 2005d:58046**
Vojta, Thomas *see* **Fendler, Bernard et al.**
Wiese, Kay Jörg *see* **Le Doussal, Pierre, 2005f:82038**
Witte, N. S. *see* **Forrester, Peter J. et al., 2005c:82011**
Yambartsev, A. A. *see* **Fontes, Luiz R. G. et al., 2005a:60021**
Yoshida, Nobuo *see* **Comets, Francis, 2005m:60242**
Yurinskiĭ, V. V. On the principal eigenvalue of the Schrödinger operator with a scaled random potential. (English summary) **2005b:60162**
Zecchina, Riccardo *see* **Battaglia, Demian et al., 2005j:68051**
Zeitouni, Ofer *see* **Comets, Francis, 2005i:60202**
Zhang, Xiao Min (*with* Li, Bo[7]) Some probability properties of random walk in time-random environment. (English summary) **2005g:60169**
Zhizhina, E. A. Spectral analysis of a one-dimensional stochastic Ising model with a random potential: asymptotics of an autocorrelation function. (Russian. Russian summary) **2005e:82105**
Życzkowski, Karol *see* **Sommers, Hans-Jürgen, 2005k:82007**

Items listed otherwise than by author

Annals of Mathematics Studies *see* **Bourgain, Jean, 2005j:35184**

82B80 Numerical methods (Monte Carlo, series resummation, etc.) [see also 65–XX, 81T80]

Chang, Shu-Ming (*with* Lin, Wen Wei; Shieh, Shih-Feng) Gauss-Seidel-type methods for energy states of a multi-component Bose-Einstein condensate. (English summary) **2005g:82068**
E, Wei-nan (*with* Yue, Xing Y.) Heterogeneous multiscale method for locally self-similar problems. (English summary) **2005e:82057**
Garcia, M. E. *see* **Grigorenko, I.**
Grassberger, Peter *see* **Hsu, Hsiao-Ping et al., 2005i:82036**
Grigorenko, I. (*with* Garcia, M. E.) Calculation of the partition function using quantum genetic algorithms. (English summary)
Hsu, Hsiao-Ping (*with* Nadler, Walter; Grassberger, Peter) Simulations of lattice animals and trees. (English summary) **2005i:82036**
Lin, Wen Wei *see* **Chang, Shu-Ming et al., 2005g:82068**
Montanari, Andrea (*with* Parisi, Giorgio; Ricci-Tersenghi, Federico) Instability of one-step replica-symmetry-broken phase in satisfiability problems. (English summary) **2005b:82049**
Nadler, Walter *see* **Hsu, Hsiao-Ping et al., 2005i:82036**
Parisi, Giorgio *see* **Montanari, Andrea et al., 2005b:82049**
Ricci-Tersenghi, Federico *see* **Montanari, Andrea et al., 2005b:82049**
Shieh, Shih-Feng *see* **Chang, Shu-Ming et al., 2005g:82068**
Téllez, Gabriel *see* **Torres, Aldemar, 2005k:82043**
Torres, Aldemar (*with* Téllez, Gabriel) Finite-size corrections for Coulomb systems in the Debye-Hückel regime. (English summary) **2005k:82043**
Yue, Xing Y. *see* **E, Wei-nan, 2005e:82057**

Items with secondary classifications in 82B80

Anteneodo, Celia *see* **Vallejos, Raúl O., 2005c:82022**
Assad, Syed M. (*with* Lim, Chjan C.) Statistical equilibrium of the Coulomb/vortex gas on the unbounded 2-dimensional plane. (English summary) **2005h:82106**
Cai, Ling-Cang *see* **Sun, Jiu-Xun et al., 2005e:82006**
Charrier, Pierre (*with* Dubroca, Bruno; Mieussens, Luc; Turpault, Rodolphe) Discrete-velocity models for numerical simulations in transitional regime for rarefied flows and radiative transfer. (English summary) **2005e:82040**
De Leo, Roberto Numerical analysis of the Novikov problem of a normal metal in a strong magnetic field. (English summary) **2005c:82092**
Dubroca, Bruno *see* **Charrier, Pierre et al., 2005e:82040**
Giménez, M. C. (*with* Nieto, F.; Ramirez-Pastor, A. J.) Thermal percolation for interacting monomers absorbed on square lattices. (English summary) **2005m:82143**
He, Guo Ping *see* **Zhou, Chang Yin, 2005a:90117**
Huber, Mark Perfect sampling using bounding chains. (English summary) **2005f:60151**
Jing, Fu-Qian *see* **Sun, Jiu-Xun et al., 2005e:82006**
Kennedy, Thomas Garrett Conformal invariance and stochastic Loewner evolution predictions for the 2D self-avoiding walk - Monte Carlo tests. (English summary) **2005j:82031**
Lim, Chjan C. *see* **Assad, Syed M., 2005h:82106**
Liu, Chein-Shan Lie symmetry of the Landau-Lifshitz-Gilbert equation and exact linearization in the Minkowski space. (English summary) **2005h:82116**
Maeshima, Nobuya Tensor product state formulation for the spin 1/2 antiferromagnetic XXZ model on the checkerboard lattice. (English summary) **2005h:82023**
Mieussens, Luc *see* **Charrier, Pierre et al., 2005e:82040**
Minguzzi, A. (*with* Succi, Sauro; Toschi, F.; Tosi, M. P.; Vignolo, P.) ★ Numerical methods for atomic quantum gases. (English summary) **2005f:82011**
Moloney, Nicholas R. *see* **Pruessner, Gunnar, 2005b:82039**
Nebus, Joseph The Dirichlet quotient of point vortex interactions on the surface of the sphere examined by Monte Carlo experiments. (English summary) **2005i:76027**

Nieto, F. *see* **Giménez, M. C. et al., 2005m:82143**
Orlandini, E. (*with* Stella, A. L.; Vanderzande, C.) Loose, flat knots in collapsed polymers.
Pruessner, Gunnar (*with* Moloney, Nicholas R.) Winding clusters in percolation on the torus and the Möbius strip. (English summary) **2005b:82039**
Ramirez-Pastor, A. J. *see* **Giménez, M. C. et al., 2005m:82143**
Stella, A. L. *see* **Orlandini, E. et al.**
Succi, Sauro *see* **Minguzzi, A. et al., 2005f:82011**
Sun, Jiu-Xun (*with* Cai, Ling-Cang; Wu, Qiang; Jing, Fu-Qian) Three semi-empirical analytic expressions for the radial distribution function of hard spheres. (English summary) **2005e:82006**
Toschi, F. *see* **Minguzzi, A. et al., 2005f:82011**
Tosi, M. P. *see* **Minguzzi, A. et al., 2005f:82011**
Turpault, Rodolphe *see* **Charrier, Pierre et al., 2005e:82040**
Vallejos, Raúl O. (*with* Anteneodo, Celia) Largest Lyapunov exponent of long-range XY systems. (English summary) **2005c:82022**
Vanderzande, C. *see* **Orlandini, E. et al.**
Vignolo, P. *see* **Minguzzi, A. et al., 2005f:82011**
Wu, Qiang *see* **Sun, Jiu-Xun et al., 2005e:82006**
Zhou, Chang Yin (*with* He, Guo Ping) An inexact Lagrange-Newton method for stochastic quadratic programs with recourse. (English summary) **2005a:90117**

82B99 None of the above, but in this section

Ben-Hur, Asa (*with* Feinberg, Joshua; Fishman, Shmuel; Siegelmann, Hava T.) Random matrix theory for the analysis of the performance of an analog computer: a scaling theory. (English summary) **2005a:82050**
Brodsky, Stanley J. *see* **Raufeisen, Jörg, 2005i:82037**
Durand, Marc (*with* Sadoc, Jean-François; Weaire, Denis) Maximum electrical conductivity of a network of uniform wires: the Lemlich law as an upper bound. (English summary) **2005c:82048**
Feinberg, Joshua *see* **Ben-Hur, Asa et al., 2005a:82050**
Fishman, Shmuel *see* **Ben-Hur, Asa et al., 2005a:82050**
Montambaux, Gilles *see* **Texier, Christophe, 2005j:82041**
Ngan, A. H. W. On distribution of contact forces in random granular packings. (English summary)
Raufeisen, Jörg (*with* Brodsky, Stanley J.) Statistical physics and light-front quantization. (English summary) **2005i:82037**
Sadoc, Jean-François *see* **Durand, Marc et al., 2005c:82048**
Siegelmann, Hava T. *see* **Ben-Hur, Asa et al., 2005a:82050**
Texier, Christophe (*with* Montambaux, Gilles) Quantum oscillations in mesoscopic rings and anomalous diffusion. (English summary) **2005j:82041**
Weaire, Denis *see* **Durand, Marc et al., 2005c:82048**
Zhang, Shi Min Approximate expression for interaction of a two similar plane double layer at moderate and low potential. (English summary) **2005k:82044**

Items with secondary classifications in 82B99

Aldous, Anthony P. (*with* Fyodorov, Yan V.) Real roots of random polynomials: universality close to accumulation points. (English summary) **2005b:60133**
Arvanitis, Theodoros N. *see* **Stepanenko, Alexander S. et al., 2005m:68020**
Chen, Yu-Kumg (*with* Chou, Shuo-Yan) Deriving the accumulation density function with parabolic trajectories of particles for arbitrary lines. (English summary)
Chou, Shuo-Yan *see* **Chen, Yu-Kumg**
Constantinou, Constantinos C. *see* **Stepanenko, Alexander S. et al., 2005m:68020**
Dhar, Deepak Steady state and relaxation spectrum of the Oslo rice-pile model. (English summary)
Feigenbaum, James Financial physics. (English summary) **2005e:91076**
Franco, Victorino *see* **Kákay, Attila et al., 2005e:82119**
Fyodorov, Yan V. *see* **Aldous, Anthony P., 2005b:60133**
Gopikrishnan, Parameswaran *see* **Stanley, H. Eugene et al., 2005m:91169**
Gurevich, Aleksandr Viktor (*with* Mazur, N. G.; Zybin, K. P.) Statistical limit in a completely integrable system. (English summary) **2005a:37124**
Gutowski, Marek Wojciech *see* **Kákay, Attila et al., 2005e:82119**
Hiai, Fumio Free analog of pressure and its Legendre transform. (English summary) **2005k:46178**
Kabashima, Yoshiyuki (*with* Saad, David) Statistical mechanics of low-density parity-check codes. (English summary) **2005m:94052**
Kákay, Attila (*with* Gutowski, Marek Wojciech; Takacs, Laszlo; Franco, Victorino; Varga, L. K.) Langevin granulometry of the particle size distribution. (English summary) **2005e:82119**
Khrennikov, Andrei Yu. p-adic discrete dynamical systems and their applications in physics and cognitive sciences. (English summary) **2005m:37110**
Leroux, Pierre Enumerative problems inspired by Mayer's theory of cluster integrals. (English summary) **2005d:05015**
Mazur, N. G. *see* **Gurevich, Aleksandr Viktor et al., 2005a:37124**
Plerou, Vasiliki *see* **Stanley, H. Eugene et al., 2005m:91169**
Saad, David *see* **Kabashima, Yoshiyuki, 2005m:94052**
Stanley, H. Eugene (*with* Gopikrishnan, Parameswaran; Plerou, Vasiliki) Statistical physics and economic fluctuations. (English summary) **2005m:91169**
Stepanenko, Alexander S. (*with* Constantinou, Constantinos C.; Arvanitis, Theodoros N.) Large-scale behaviour of packet-switched networks: theoretical analysis framework. (English summary) **2005m:68020**
Suzuki, Masuo Separation of non-commutative procedures—exponential product formulas and quantum analysis. (English summary) **2005d:81226**
Szasz, A. *see* **Vincze, Gy. et al., 2005c:92002**
Takacs, Laszlo *see* **Kákay, Attila et al., 2005e:82119**
Varga, L. K. *see* **Kákay, Attila et al., 2005e:82119**
Vincze, Gy. (*with* Zsoldos, I.; Szasz, A.) On the Aboav-Weaire law. (English summary) **2005c:92002**
Zhang, Li Chun *see* **Zhao, Ren, 2005b:83069**
Zhao, Ren (*with* Zhang, Li Chun) Statistical entropy of a rotating higher-dimensional black hole. (English summary) **2005b:83069**
Zsoldos, I. *see* **Vincze, Gy. et al., 2005c:92002**
Zybin, K. P. *see* **Gurevich, Aleksandr Viktor et al., 2005a:37124**

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Abe, Sumiyoshi Quantum q-divergence. (English summary) **2005f:82053**
— Stability analysis of generalized entropies and q-exponential distributions. (English summary) **2005d:82057**
— *see also* **Rajagopal, A. K.**
Adib, Artur B. *see* **Andrade, José S., Jr. et al., (2005g:82001)**
Almeida, M. P. *see* **Andrade, José S., Jr. et al., (2005g:82001)**
Amann, A. *see* **Atmanspacher, Harald et al., 2005d:82058**
Andrade, José S., Jr. (*with* Almeida, M. P.; Moreira, André A.; Adib, Artur B.; Farias, G. A.) A Hamiltonian approach for Tsallis thermostatistics. (*see* **2005g:82001**)
Atmanspacher, Harald (*with* Bishop, Robert C.; Amann, A.) Extrinsic and intrinsic irreversibility in probabilistic dynamical laws. (English summary) **2005d:82058**
Babin, V. *see* **Cybulski, O. et al., 2005m:82076**
van Beijeren, Henk Generalized dynamical entropies in weakly chaotic systems. (English summary)
Bendler, John T. (*with* Fontanella, John J.; Shlesinger, Michael F.) Sources of exponents. (English summary)
Bishop, Robert C. *see* **Atmanspacher, Harald et al., 2005d:82058**
Brouers, F. (*with* Sotolongo-Costa, O.; Weron, Karina) Burr, Lévy, Tsallis. (English summary) **2005f:82054**
Carati, A. Thermodynamics and time averages. (English summary) **2005j:82042**
Cohen, E. G. D. Superstatistics. (English summary) **2005d:82059**
— *see also* **Gallavotti, Giovanni, 2005e:82058**
Cybulski, O. (*with* Babin, V.; Hołyst, R.) Minimization of the Renyi entropy production in the space-partitioning process. (English summary) **2005m:82076**
De Filippo, Sergio (*with* Maimone, Filippo) Entropic localization in non-unitary Newtonian gravity. (English summary) **2005i:82038**
Dhar, Abishek *see* **Narayan, Onuttom, 2005b:82050**
Elze, Hans-Thomas (*with* Kodama, T.) On supercorrelated systems and phase space entrainment. (English summary) **2005m:82077**
Falcioni, Massimo (*with* Palatella, Luigi; Vulpiani, Angelo) Production rate of the coarse-grained Gibbs entropy and the Kolmogorov-Sinai entropy: A real connection? (English summary) **2005m:82078**
Farias, G. A. *see* **Andrade, José S., Jr. et al., (2005g:82001)**
Fontanella, John J. *see* **Bendler, John T. et al.**
Gallavotti, Giovanni (*with* Cohen, E. G. D.) Nonequilibrium stationary states and entropy. (English summary) **2005e:82058**
Garbaczewski, Piotr Shannon versus Kullback-Leibler entropies in nonequilibrium random motion. (English summary) **2005m:82079**
Goldstein, Sheldon (*with* Lebowitz, Joel L.) On the (Boltzmann) entropy of non-equilibrium systems. (English summary) **2005d:82060**
Gross, D. H. E. Ensemble probabilistic equilibrium and non-equilibrium thermodynamics without the thermodynamical limit. (English summary) (*see* **2005c:81006**)
— Classical equilibrium thermostatistics, "sancta sanctorum of statistical mechanics" from nuclei to stars. (English summary)
Gustafson, Karl Microscopic irreversibility. (English summary) (*see* **2005d:00011**)
Hołyst, R. *see* **Cybulski, O. et al., 2005m:82076**
Just, Wolfram On symbolic dynamics of space-time chaotic models. (*see* **2005i:82001**)
Kaniadakis, Giorgio (*with* Scarfone, A. M.) Lesche stabilty of κ-entropy. (English summary)
Kauffman, Stuart Autonomous agents.
Kodama, T. *see* **Elze, Hans-Thomas, 2005m:82077**
Kumičák, Juraj Irreversibility in a simple reversible model. (English summary) **2005m:82080**
Landsberg, P. T. (*with* Matsas, George E. A.) The impossibility of a universal relativistic temperature transformation. (English summary) **2005c:82049**
Lavenda, B. H. On the definition of fluctuating temperature. (English summary) **2005f:82055**
Lebowitz, Joel L. *see* **Goldstein, Sheldon, 2005d:82060**
Luzzi, Roberto (*with* Vasconcellos, Áurea R.; Ramos, José Galvão de Pisapia) Nonequilibrium ensemble formalism. (English summary)
Maes, Christian On the origin and the use of fluctuation relations for the entropy. (English summary) **2005j:82043**
Maimone, Filippo *see* **De Filippo, Sergio, 2005i:82038**
Matsas, George E. A. *see* **Landsberg, P. T., 2005c:82049**
Moreira, André A. *see* **Andrade, José S., Jr. et al., (2005g:82001)**
Narayan, Onuttom (*with* Dhar, Abishek) Reexamination of experimental tests of the fluctuation theorem. (English summary) **2005b:82050**
Ordonez, G. *see* **Petrosky, Tomio et al., 2005a:82051**
Palatella, Luigi *see* **Falcioni, Massimo et al., 2005m:82078**
Petrosky, Tomio (*with* Ordonez, G.; Prigogine, Ilya) Radiation damping in classical systems: the role of nonintegrability. (English summary) **2005a:82051**
Plastino, Angel Luis A conceptual framework for the Wheeler program. (English summary)
— Why Tsallis statistics? (English summary) **2005f:82056**
Prigogine, Ilya *see* **Petrosky, Tomio et al., 2005a:82051**
Radons, Günter Disordered dynamical systems. (*see* **2005i:82001**)
Rajagopal, A. K. (*with* Abe, Sumiyoshi) Statistical mechanical foundations of power-law distributions. (English summary)
Ramos, José Galvão de Pisapia *see* **Luzzi, Roberto et al.**

Robledo, Alberto Unifying laws in multidisciplinary power-law phenomena: fixed-point universality and nonextensive entropy. (*see* **2005g:82001**)
— Critical fluctuations, intermittent dynamics and Tsallis statistics. (English summary) **2005f:82057**
Scarfone, A. M. *see* **Kaniadakis, Giorgio**
Shlesinger, Michael F. *see* **Bendler, John T. et al.**
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Tsallis, Constantino What should a statistical mechanics satisfy to reflect nature? (English summary) **2005d:82061**
Vasconcellos, Áurea R. *see* **Luzzi, Roberto et al.**
Vulpiani, Angelo *see* **Falcioni, Massimo et al., 2005m:82078**
Wada, Tatsuaki Thermodynamic stability conditions for nonadditive composable entropies. (English summary)
Weron, Karina *see* **Brouers, F. et al., 2005f:82054**
Xing, Xiu San Nonequilibrium statistical information theory. (Chinese. English and Chinese summaries) **2005m:82081**
Yang, Chun-Bin The origin of power-law distributions in self-organized criticality. (English summary) **2005g:82069**
Zaripov, R. G. Change in distinction information in the evolution of nonextensive systems in the space of control parameters. (Russian. Russian summary) **2005e:82059**

Items with secondary classifications in 82C03

Adib, Artur B. Does the Boltzmann principle need a dynamical correction? (English summary) **2005f:82058**
Alcaniz, J. S. *see* **Silva, Raimundo, 2005k:85004**
Alicki, Robert (*with* Fannes, Mark) Quantum dynamics, measurement and entropy. (English summary) **2005m:82090**
Badiali, J. P. Entropy, time-irreversibility and the Schrödinger equation in a primarily discrete spacetime. (English summary) **2005k:82079**
Ban, Jung-Chao (*with* Lin, Song-Sun) The devil's staircase dimensions and measure-theoretical entropy of maps with horizontal gap. (English summary) **2005k:37037**
Beck, Christian Superstatistics: theory and applications. (English summary) **2005b:82002**
Bonetto, F. *see* **Gallavotti, Giovanni et al., 2005h:37001**
Cardin, Franco (*with* Favretti, Marco) On the Helmholtz-Boltzmann thermodynamics of mechanical systems. (English summary) **2005c:82052**
Costantini, Domenico *see* **Garibaldi, Ubaldo et al., 2005d:91088**
(Dalibard, Jean) *see* **Seminar: Poincaré, 2003, 2005c:82002**
Devereux, Michael A modified Szilard's engine: measurement, information, and Maxwell's demon. (English summary) **2005i:82003**
Dixit, Purnima (*with* Saha, L. M.) On sensitivity to initial conditions and chaos. (English summary)
(Duplantier, Bertrand) *see* **Seminar: Poincaré, 2003, 2005c:82002**
Emelyanova, Natalya A. *see* **Yul'met'ev, R. M. et al., 2005d:94061**
Erofeev, Vasily Ivanovich Impossibility of Vedenov-Rudakov's plasma modulational instability as one more illustration of the inappropriateness of the recipes of nonequilibrium statistical mechanics. (English summary) **2005a:76175**
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Frigg, Roman In what sense is the Kolmogorov-Sinai entropy a measure for chaotic behaviour?—Bridging the gap between dynamical systems theory and communication theory. (English summary) **2005f:94049**
Gafarov, Fail M. *see* **Yul'met'ev, R. M. et al., 2005d:94061**
Gallavotti, Giovanni (*with* Bonetto, F.; Gentile, Guido) ★ Aspects of ergodic, qualitative and statistical theory of motion. **2005h:37001**
— Entropy production and thermodynamics of nonequilibrium stationary states: a point of view. (English summary) **2005h:82070**
Garibaldi, Ubaldo (*with* Costantini, Domenico; Viarengo, Paolo) A finitary characterization of the Ewens sampling formula. (English summary) **2005d:91088**
Gentile, Guido *see* **Gallavotti, Giovanni et al., 2005h:37001**
Gotoh, Toshiyuki (*with* Kraichnan, Robert H.) Turbulence and Tsallis statistics. (English summary) **2005c:76057**
Grandy, W. T., Jr. Time evolution in macroscopic systems. I. Equations of motion. (English summary) **2005b:82054**
— Time evolution in macroscopic systems. II. The entropy. (English summary) **2005e:82070**
(Kaniadakis, Giorgio) *see* **News and expectations in thermostatistics**
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Lin, Song-Sun *see* **Ban, Jung-Chao, 2005k:37037**
(Lissia, Marcello) *see* **News and expectations in thermostatistics**
Livi, Roberto (*with* Ruffo, Stefano; Shepelyanskiĭ, D. L.) Kolmogorov pathways from integrability to chaos and beyond. (English summary) **2005b:37132**
Lyra, Marcelo L. Nonextensive entropies and sensitivity to initial conditions of complex systems. (English summary) (*see* **2005g:82001**)
Miller, H. G. *see* **Plastino, A. R. et al.**
Plastino, A. R. (*with* Miller, H. G.; Plastino, Angel Luis) General thermostatistical formalisms based on parameterized entropic measures. (English summary)
Plastino, Angel Luis *see* **Plastino, A. R. et al.**
Posch, Harald A. (*with* Forster, Christina) Lyapunov instability of fluids. (English summary) (*see* **2005i:82001**)
Provata, A. *see* **Tsekouras, G. A. et al., 2005f:92023**
(Rivasseau, Vincent) *see* **Seminar: Poincaré, 2003, 2005c:82002**
Ruffo, Stefano *see* **Livi, Roberto et al., 2005b:37132**
Saha, L. M. *see* **Dixit, Purnima**
Sengupta, Ashok Toward a theory of chaos. (English summary) **2005c:37058**
Shepelyanskiĭ, D. L. *see* **Livi, Roberto et al., 2005b:37132**
Silva, Raimundo (*with* Alcaniz, J. S.) Non-extensive statistics and the stellar polytrope index. (English summary) **2005k:85004**
Słomczyński, Wojciech (*with* Zastawniak, Tomasz) Utility maximizing entropy and the second law of thermodynamics. (English summary) **2005f:60090**
Szemplińska-Stupnicka, Wanda ★ Chaos, bifurcations and fractals around us. **2005b:37056**
Tsallis, Constantino Dynamical scenario for nonextensive statistical mechanics. (English summary) **2005c:82007**
— *see also* **Tsekouras, G. A. et al., 2005f:92023**
Tsekouras, G. A. (*with* Provata, A.; Tsallis, Constantino) Nonextensivity of the cyclic lattice Lotka-Volterra model. (English summary) **2005f:92023**
Tsuda, Ichiro (*with* Umemura, Toshiya) Chaotic itinerancy generated by coupling of Milnor attractors. (English summary) **2005d:37073**
Umemura, Toshiya *see* **Tsuda, Ichiro, 2005d:37073**
Viarengo, Paolo *see* **Garibaldi, Ubaldo et al., 2005d:91088**
Yamano, Takuya A statistical complexity measure with nonextensive entropy and quasi-multiplicativity. (English summary) **2005d:94059**
Yul'met'ev, R. M. (*with* Emelyanova, Natalya A.; Gafarov, Fail M.) Dynamical Shannon entropy and information Tsallis entropy in complex systems. (English summary) **2005d:94061**
Zastawniak, Tomasz *see* **Słomczyński, Wojciech, 2005f:60090**
Zbilut, Joseph P. ★ Unstable singularities and randomness. **2005k:37198**

Items listed otherwise than by author

News and expectations in thermostatistics ★ News and expectations in thermostatistics.
Paris ★ Poincaré Seminar 2003. **2005c:82002**
Seminar:
Poincaré, 2003 ★ Poincaré Seminar 2003. **2005c:82002**
Villasimius ★ News and expectations in thermostatistics.

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Adib, Artur B. Does the Boltzmann principle need a dynamical correction? (English summary) **2005f:82058**
Agueh, M. (*with* Ghoussoub, Nassif; Kang, Xiaosong) Geometric inequalities via a general comparison principle for interacting gases. (English summary) **2005c:82050**
Arai, Kenichi (*with* Mizutani, Shin; Yoshimura, Kazuyuki) Deterministic stochastic resonance in a Rössler oscillator. (English summary)
Baldovin, Fulvio (*with* Moyano, Luis G.; Majtey, Ana P.; Robledo, Alberto; Tsallis, Constantino) Ubiquity of metastable-to-stable crossover in weakly chaotic dynamical systems. (English summary)
Bambace, Luis A. W. *see* **Ramos, Fernando M. et al., 2005g:82071**
Beck, Christian (*with* Cohen, E. G. D.) Superstatistical generalization of the work fluctuation theorem. (English summary) **2005f:82059**
Benettin, Giancarlo Time scale for energy equipartition in a two-dimensional FPU model. (English summary) **2005k:82045**
Berglund, Nils (*with* Gentz, Barbara) On the noise-induced passage through an unstable periodic orbit. I. Two-level model. (English summary) **2005a:82052**
Bertini, Lorenzo (*with* De Sole, A.; Gabrielli, Davide; Jona-Lasinio, Giovanni; Landim, Claudio) Minimum dissipation principle in stationary non-equilibrium states. (English summary) **2005d:82062**
Borgonovi, F. (*with* Celardo, G. L.; Maianti, M.; Pedersoli, E.) Broken ergodicity in classically chaotic spin systems. (English summary) **2005f:82060**
Brydges, David C. (*with* Imbrie, John Z.) Branched polymers and dimensional reduction. (English summary) **2005c:82051**
Caillol, Jean-Michel Some applications of the Lambert W function to classical statistical mechanics. (English summary) **2005a:82053**
Calabrese, Pasquale (*with* Gambassi, Andrea) Ageing properties of critical systems. (English summary) **2005m:82082**
Campanino, Massimo (*with* Ioffe, Dimitri; Velenik, Yvan) Random path representation and sharp correlations asymptotics at high-temperatures. (English summary) **2005h:82069**
Cardin, Franco (*with* Favretti, Marco) On the Helmholtz-Boltzmann thermodynamics of mechanical systems. (English summary) **2005c:82052**
Carlen, E. A. (*with* Lieb, Elliott H.; Loss, Michael) A sharp analog of Young's inequality on S^N and related entropy inequalities. (English summary) **2005k:82046**
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Friedrich, Rudolf Group theoretic methods in the theory of pattern formation. (*see* **2005i:82001**)
Fritz, József (*with* Tóth, Bálint) Derivation of the Leroux system as the hydrodynamic limit of a two-component lattice gas. (English summary) **2005f:82063**

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(Qian, Min) *see* **Chen, Tian-Quan, 2005c:82053**
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Rajesh, R. *see* **Connaughton, Colm et al., 2005f:82061**
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Tarasov, V. E. Fractional systems and fractional Bogoliubov hierarchy equations. (English summary) **2005m:82088**
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Torquato, Salvatore *see* **Uche, Obioma U. et al., 2005j:82044**
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Touchette, Hugo (*with* Ellis, Richard S.; Turkington, Bruce) An introduction to the thermodynamic and macrostate levels of nonequivalent ensembles. (English summary)
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Turkington, Bruce *see* **Touchette, Hugo et al.**
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Wang, Qiuping-A. (*with* Nivanen, L.; Le Méhauté, Alain; Pezeril, M.) Fractal geometry, information growth and nonextensive thermodynamics. (English summary) **2005e:82064**
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Wylie, Jonathan J. (*with* Zhang, Qiang[1]) Periodic orbits of a one-dimensional inelastic particle system. (English and French summaries) **2005h:82072**
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Xie, Chong-Wei *see* **Mei, Dong-Cheng et al., 2005f:82065**
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Items with secondary classifications in 82C05

Atmanspacher, Harald (*with* Scheingraber, Herbert) Inherent global stabilization of unstable local behavior in coupled map lattices. (English summary)
Baier, Gerold *see* **Müller, Markus[3] et al., 2005k:37187**
Bálint, Péter (*with* Troubetzkoy, Serge) Rotor interaction in the annulus billiard. (English summary) **2005h:37081**
Bar-Yam, Yaneer ★ Dynamics of complex systems. **2005c:37166**
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Bishop, Alan R. *see* **Büttner, Helmut et al., 2005d:82093**
Bluman, George (*with* Shtelen, Vladimir M.) Nonlocal transformations of Kolmogorov equations into the backward heat equation. (English summary) **2005c:35126**
Bolton, Colin D. (*with* Wattis, Jonathan A. D.) The Becker-Döring equations with monomer input, competition and inhibition. (English summary) **2005e:82114**
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Chueshov, Igor D. (*with* Scheutzow, Michael) On the structure of attractors and invariant measures for a class of monotone random systems. (English summary) **2005c:37095**
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Coraddu, M. (*with* Meloni, F.; Mezzorani, G.; Tonelli, R.) Weak insensitivity to initial conditions at the edge of chaos in the logistic map. (English summary) **2005c:37065**

Dana, Itzhack (*with* Chernov, Vladislav E.) Periodic orbits and chaotic-diffusion probability distributions. (English summary) **2005d:37063**
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Del Moral, Pierre (*with* Doucet, Arnaud) Particle motions in absorbing medium with hard and soft obstacles. (English summary) **2005h:60307**
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Gustavsson, Jonas Gaussian fluctuations of eigenvalues in the GUE. (English and French summaries) **2005k:60074**
Herrmann, Samuel (*with* Imkeller, Peter; Pavlyukevich, Ilya) Two mathematical approaches to stochastic resonance. (English summary) **2005k:82075**
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Rosenau, Philip (*with* Schochet, Steven) Compact and almost compact breathers: a bridge between an anharmonic lattice and its continuum limit. (English summary) **2005m:37181**
Ruelle, David Application of hyperbolic dynamics to physics: some problems and conjectures. (English summary) **2005b:37038**
Sakagami, Masa-aki (*with* Taruya, Atsushi) Description of quasi-equilibrium states of self-gravitating systems based on non-extensive thermostatistics. (English summary)
— *see also* **Taruya, Atsushi**
Saxena, Avadh *see* **Büttner, Helmut et al.**, **2005d:82093**
Scheingraber, Herbert *see* **Atmanspacher, Harald**
Schertzer, Daniel (*with* Lovejoy, Shaun) Space-time complexity and multifractal predictability. (English summary) **2005a:76094**
Scheutzow, Michael *see* **Chueshov, Igor D.**, **2005c:37095**
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Shtelen, Vladimir M. *see* **Bluman, George**, **2005c:35126**
Simányi, Nándor Proof of the ergodic hypothesis for typical hard ball systems. (English summary) **2005f:37062**
Sinaĭ, Ya. G. What is . . . a billiard? **2005a:37049**
Somsikov, V. M. Equilibration of a hard-disks system. (English summary)
Stephani, Ulrich *see* **Müller, Markus[3] et al.**, **2005k:37187**
Su, Chau Hsing *see* **Lin, Guan et al.**, **2005f:76080**
Tarasov, V. E. Stationary solutions of Liouville equations for non-Hamiltonian systems. (English summary) **2005j:70044**
Taruya, Atsushi (*with* Sakagami, Masa-aki) Fokker-Planck study of stellar self-gravitating system away from the thermal equilibrium: connection with non-extensive statistics. (English summary)
— *see also* **Sakagami, Masa-aki**
Tonelli, R. *see* **Coraddu, M. et al.**, **2005c:37065**
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Yanchuk, S. V. *see* **Maĭstrenko, Yuriĭ L. et al.**, **2005b:34095**
Yuri, Michiko Weak Gibbs measures for intermittent systems and weakly Gibbsian states in statistical mechanics. (English summary) **2005a:37045**
Zhidkov, P. E. On global solutions for the Vlasov-Poisson system. (English summary) **2005a:35042**
— On local smooth solutions for the Vlasov equation with the potential of interactions $\pm r^{-2}$. (English summary) **2005k:35039**
Zwanzig, Robert ★ Nonequilibrium statistical mechanics. **2005d:82001**
Zygadło, Ryszard Two Markovian models leading to the Pascalian (1D ultrarelativistic) stationary distribution. (English summary) **2005f:37191**

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Accardi, Luidgi (*with* Imafuku, Kentaro) Dynamical detailed balance and local KMS condition for non-equilibrium states. (English summary) **2005d:82068**
Adamian, G. G. *see* **Kanokov, Z. et al.**, **2005k:82054** *and* **Palchikov, Yu. V. et al.**, **2005k:82055**
Aftalion, Amandine (*with* Blanc, Xavier) Existence of vortex-free solutions in the Painlevé boundary layer of a Bose-Einstein condensate. (English and French summaries) **2005m:82089**
Al′beverio, S. (*with* Kondrat′ev, Yu. G.; Kozak, Agnieszka; Kozitskiĭ, Yu. V.) A hierarchical model of quantum anharmonic oscillators: critical point convergence. (English summary) **2005k:82050**
Alicki, Robert (*with* Fannes, Mark; Haegeman, Bart; Vanpeteghem, D.) Coherent transport and dynamical entropy for Fermionic systems. (English summary) **2005b:82053**
— Pure decoherence in quantum systems. (English summary) **2005g:82072**
— (*with* Fannes, Mark) Quantum dynamics, measurement and entropy. (English summary) **2005m:82090**
Antonenko, N. V. *see* **Kanokov, Z. et al.**, **2005k:82054** *and* **Palchikov, Yu. V. et al.**, **2005k:82055**
Arnold, Anton (*with* Sparber, Christof) Quantum dynamical semigroups for diffusion models with Hartree interaction. (English summary) **2005f:82066**
Avron, Joseph E. (*with* Elgart, Alexander; Graf, Gian Michele; Sadun, Lorenzo; Schnee, Kai) Adiabatic charge pumping in open quantum systems. (English summary)

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Bagarello, Fabio The stochastic limit in the analysis of the open BCS model. (English summary) **2005c:82057**
— Spatiality of derivations for QM_∞ systems: some preliminary results. (English summary) **2005i:82041**
Banach, Zbigniew (*with* Larecki, Wieslaw) Nine-moment phonon hydrodynamics based on the modified Grad-type approach: formulation. (English summary) **2005g:82073**
Bao, Weizhu Ground states and dynamics of multicomponent Bose-Einstein condensates. (English summary) **2005d:82069**
Bardos, Claude (*with* Golse, François; Gottlieb, Alex D.; Mauser, Norbert J.) On the derivation of nonlinear Schrödinger and Vlasov equations. (English summary) **2005d:82070**
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Bjelaković, Igor (*with* Siegmund-Schultze, Rainer) An ergodic theorem for the quantum relative entropy. (English summary) **2005i:82042**
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Bloch, Anthony M. (*with* Rojo, Alberto G.) Control of squeezed phonon and spin states. (English summary) (*see* **2005b:93007**)
Bolte, Jens (*with* Glaser, Rainer) A semiclassical Egorov theorem and quantum ergodicity for matrix valued operators. (English summary) **2005m:82091**
Bradley, R. Mark (*with* Deconinck, Bernard; Kutz, J. Nathan) Exact nonstationary solutions to the mean-field equations of motion for two-component Bose-Einstein condensates in periodic potentials. (English summary) **2005i:82043**
Brak, Richard (*with* de Gier, Jan; Rittenberg, Vladimir) Nonequilibrium stationary states and equilibrium models with long range interactions. (English summary) **2005c:82058**
Brodier, O. (*with* Ozorio de Almeida, A. M.) Symplectic evolution of Wigner functions in Markovian open systems. (English summary) **2005e:82066**
Buchleitner, Andreas *see* **Shatokhin, Vyacheslav et al.**
Cao, Li-Ming *see* **Zhang, Peng-Ming et al., 2005d:82079**
Chang, Shu-Ming (*with* Lin, Chang-Shou; Lin, Tai-Chia; Lin, Wen Wei) Segregated nodal domains of two-dimensional multispecies Bose-Einstein condensates. (English summary) **2005g:82074**
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Chen, Jing-Ling *see* **Tong, Dian Min et al., 2005d:82077**
de Coulon, V. *see* **Reuse, F. A. et al., 2005a:82067**
Daffer, Sonja (*with* Wódkiewicz, Krzysztof; McIver, John K.) Bloch equations and completely positive maps. (English summary) **2005g:82075**
Deconinck, Bernard *see* **Bradley, R. Mark et al., 2005i:82043**
De Haan, Michel Single subdynamics approach: on the existence of poles. **2005j:82045**
Derezi\'nski, Jan (*with* Jakšić, Vojkan) On the nature of Fermi golden rule for open quantum systems. (English summary) **2005m:82092**
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Disertori, M. Density of states for GUE through supersymmetric approach. (English summary) **2005k:82051**
Duan, Yi Shi (*with* Liu, Xin[5]; Zhang, Hong) Velocity field vortices and Mermin-Ho vortices in two-component spinor BEC. (English summary) **2005a:82060**
— (*with* Liu, Xin[5]; Yang, Jie) Knotlike vortex lines in spinor BEC. (English summary) **2005d:82071**
— *see also* **Zhang, Peng-Ming et al., 2005d:82079**
Elgart, Alexander *see* **Avron, Joseph E. et al., 2005f:82067**
Fan, Hong Yi[1] (*with* Li, Chao[3]) Solving master equation for two-mode density matrices by virtue of thermal entangled state representation. (English summary)
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Floreanini, Roberto *see* **Benatti, Fabio et al., 2005f:82068**
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— (*with* Merkli, Marco) Another return of "return to equilibrium". (English summary) **2005k:82052**
— (*with* Merkli, Marco; Sigal, I. M.) Ionization of atoms in a thermal field. (English summary) **2005f:82069**
— (*with* Merkli, Marco) Thermal ionization. (English summary) **2005e:82067**
García-Mata, Ignacio (*with* Saraceno, Marcos) Spectral properties and classical decays in quantum open systems. (English summary) **2005e:82068**
Gerasimenko, V. I. (*with* Ryabukha, T. V.) Cumulant representation of solutions of the Bogolyubov chains of equations. (Ukrainian. English and Ukrainian summaries) **2005f:82070**
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Grandy, W. T., Jr. Time evolution in macroscopic systems. I. Equations of motion. (English summary) **2005b:82054**
— Time evolution in macroscopic systems. II. The entropy. (English summary) **2005e:82070**
— Time evolution in macroscopic systems. III. Selected applications. (English summary) **2005d:82072**
Grasselli, M. R. Duality, monotonicity and the Wigner-Yanase-Dyson metrics. (English summary) **2005k:82053**
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Ignat, Radu (*with* Millot, Vincent) Vortices in a 2d rotating Bose-Einstein condensate. (English and French summaries) **2005m:82093**
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Isar, Aurelian (*with* Scheid, Werner) Deformation of quantum oscillator and of its interaction with environment. (English summary) **2005a:82064**
Jadczyk, A. Piecewise deterministic quantum dynamics and quantum fractals on the Poincaré disk. (English summary) **2005g:82077**
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Jakšić, Vojkan (*with* Pillet, Claude-Alain) A note on the entropy production formula. (English summary) **2005b:82055**
— *see also* **Derezi\'nski, Jan, 2005m:82092**
Jordan, Thomas F. (*with* Shaji, Anil; Sudarshan, E. C. George) Dynamics of initially entangled open quantum systems. (English summary) **2005j:82047**
Jørgensen, Palle E. T. The existence problem for dynamics of dissipative systems in quantum probability. (English summary) **2005h:82074**
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Kanokov, Z. (*with* Palchikov, Yu. V.; Adamian, G. G.; Antonenko, N. V.; Scheid, Werner) Non-Markovian dynamics of quantum systems. I. Formalism and transport coefficients. (English summary) **2005k:82054**
— *see also* **Palchikov, Yu. V. et al., 2005k:82055**
Kevrekidis, Panayotis G. *see* **Porter, Mason A. et al.**
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Li, Hai Liang[2] *see* **Jüngel, Ansgar, 2005g:82078**
Li, Ya[1] (*with* Hai, Wenhua) Three-body recombination in two coupled Bose-Einstein condensates. (English summary)
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Lin, Tai-Chia *see* **Chang, Shu-Ming et al., 2005g:82074**
Lin, Wen Wei *see* **Chang, Shu-Ming et al., 2005g:82074**
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Łoziński, Artur (*with* Życzkowski, Karol; Słomczyński, Wojciech) Quantum iterated function systems. (English summary) **2005a:82065**
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Merkli, Marco *see* **Fröhlich, Jürg et al., 2005a:82062; 2005e:82067; 2005f:82069** *and* **2005k:82052**
Mieck, B. (*with* Graham, Robert) Bose-Einstein condensate of kicked rotators. (English summary)
— (*with* Graham, Robert) Bose-Einstein condensate of kicked rotators with time-dependent interaction. (English summary) **2005i:82045**
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Miyadera, Takayuki Slow decay of dynamical correlation functions for nonequilibrium quantum states. (English summary) **2005g:82081**
Nachtergaele, Bruno (*with* Spitzer, Wolfgang L.; Starr, Shannon) On the dynamics of interfaces in the ferromagnetic XXZ chain under weak perturbations. (English summary) **2005a:82066**
— (*with* Yau, Horng-Tzer) Derivation of the Euler equations from quantum dynamics. (English summary) **2005e:82071**
Nazarenko, S. V. *see* **Zakharov, Vladimir E., 2005i:82046**
Nazario, Zaira (*with* Santiago, David I.) Quantum states of matter of simple bosonic systems: BECs, superfluids and quantum solids. (English summary)
Neidhardt, H. *see* **Baro, M. et al., 2005a:82059**

Nemes, M. C. *see* **Fonseca Romero, K. M., 2005a:82061**
Nier, Francis (*with* Patel, Mamodyasine) Nonlinear asymptotics for quantum out-of-equilibrium 1D systems: reduced models and algorithms. (*see* **2005c:81007**)
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Palchikov, Yu. V. (*with* Kanokov, Z.; Adamian, G. G.; Antonenko, N. V.; Scheid, Werner) Non-Markovian dynamics of quantum systems. II. Decay rate, capture, and pure states. (English summary) **2005k:82055**
— *see also* **Kanokov, Z. et al., 2005k:82054**
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Porter, Mason A. (*with* Kevrekidis, Panayotis G.; Malomed, Boris A.) Resonant and non-resonant modulated amplitude waves for binary Bose-Einstein condensates in optical lattices. (English summary)
— *see also* **Liboff, Richard L., 2005d:82073**
Pulvirenti, A. (*with* Toscani, Giuseppe) Probabilistic treatment of some dissipative kinetic models. (English summary) (*see* **2005c:00016**)
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Rehberg, J. *see* **Baro, M. et al., 2005a:82059**
Reuse, F. A. (*with* de Coulon, V.; Maschke, K.) Coherent and dissipative spin dynamics in N-electron systems. (English summary) **2005a:82067**
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Ron, Amiram *see* **Zoubi, Hashem et al., 2005d:82080**
Ruggeri, Tommaso (*with* Trovato, Massimo) Hyperbolicity in extended thermodynamics of Fermi and Bose gases. (English summary). **2005k:82057**
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Salasnich, Luca Solitary-waves of the nonpolynomial Schrodinger equation: bright solitons in Bose-Einstein condensates. (English summary) (*see* **2005a:00012**)
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Shabani, A. (*with* Lidar, Daniel A.) Completely positive post-Markovian master equation via a measurement approach. (English summary) **2005k:82058**
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Sudarshan, E. C. George *see* **Jordan, Thomas F. et al., 2005j:82047**
Tasaki, Shuichi (*with* Matsui, Taku) Fluctuation theorem, nonequilibrium steady states and MacLennan-Zubarev ensembles of a class of large quantum systems. (English summary) **2005d:82076**
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Zhang, Peng-Ming (*with* Cao, Li-Ming; Duan, Yi Shi; Zhong, Cheng-Kui) Transverse force on a moving vortex with the acoustic geometry. (English summary) **2005d:82079**
Zhang, Yue[3] (*with* Lin, Bihong; Chen, Jincan) The influence of quantum degeneracy and irreversibility on the performance of a Fermi quantum refrigeration cycle. (English summary)
Zhong, Cheng-Kui *see* **Zhang, Peng-Ming et al., 2005d:82079**
Zhu, Wusheng (*with* Rabitz, Herschel) Perturbative and nonperturbative master equations for open quantum systems. (English summary) **2005k:82059**
Zoubi, Hashem (*with* Orenstien, Meir; Ron, Amiram) The factorization approximation for the master equation. (English summary) **2005d:82080**
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Abbott, Derek *see* **Flitney, Adrian P., 2005h:68104**
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Ambainis, Andris (*with* Bach, Eric; Nayak, Ashwin; Vishwanath, Ashvin; Watrous, John) One-dimensional quantum walks. (English summary) (*see* **2005j:68008**)
— *see also* **Aharonov, Dorit et al., (2005j:68008)**
Antoniou, Ioannis E. (*with* Karpov, Evgueni; Prigogine, Ilya; Pron′ko, G. P.) Relativity and irreversibility. (English summary) (*see* **2005d:00011**)
Arimitsu, Toshihico Can "quantumness" be an origin of dissipation? (English summary) **2005d:81216**
Arrighi, Pablo (*with* Patricot, Christophe) On quantum operations as quantum states. (English summary) **2005a:81014**
Aslangul, Claude Quantum dynamics of a particle with a spin-dependent velocity. (English summary) **2005j:81088**
Bach, Eric *see* **Ambainis, Andris et al., (2005j:68008)**
Bagarello, Fabio On the time evolution of $\mathcal{QM}_\infty$ systems: an algebraic approach. (English summary) (*see* **2005c:00016**)
Barletti, Luigi *see* **Manzini, Chiara, 2005h:35294**
Beckermann, Bernhard (*with* Martínez Finkelshtein, Andrei; Rakhmanov, E. A.; Wielonsky, F.) Asymptotic upper bounds for the entropy of orthogonal polynomials in the Szegő class. (English summary) **2005f:42052**
Bellissard, Jean The noncommutative geometry of aperiodic solids. **2005f:81077**
Benedetto, Dario (*with* Castella, François; Esposito, Raffaele; Pulvirenti, Mario) Some considerations on the derivation of the nonlinear quantum Boltzmann equation. (English summary) **2005g:82110**
Bimonte, Giuseppe (*with* Esposito, Giampiero; Marmo, Giuseppe; Stornaiolo, Cosimo) Peierls brackets: from field theory to dissipative systems. (English summary) **2005e:81123**
Bloch, Anthony M. (*with* Rojo, Alberto G.) Control of squeezed phonon and spin states. (English summary) **2005k:93097**
Brustein, Ram (*with* Yarom, Amos) Thermodynamics and area in Minkowski space: heat capacity of entanglement. (English summary) **2005i:81109**
Canosa, N. (*with* Rossignoli, R.) General non-additive entropic forms and the inference of quantum density operators. (English summary) **2005h:81089**
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Castella, François *see* **Benedetto, Dario et al., 2005g:82110**
Cerimele, M. M. (*with* Chiofalo, M. L.; Pistella, Francesca) From coherent to incoherent dynamical behaviour of quantum atomic gases in periodic potentials. (English summary)
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Chen, Jincan *see* **Lin, Bihong, 2005i:82057**
Cheng, Yuan-Chung (*with* Silbey, R. J.) Stochastic Liouville equation approach for the effect of noise in quantum computations. (English summary) **2005d:81084**
Chiofalo, M. L. *see* **Cerimele, M. M. et al.**
Choi, Veni Quantum dynamical semigroup and its asymptotic behaviors. (English summary) **2005a:46141**
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— Disentanglement by dissipative open system dynamics. (English summary) **2005f:81025**
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Ebeling, Werner (*with* Röpke, Gerd) Statistical mechanics of confined systems with rotational excitations. (English summary) **2005d:82063**
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Fagnola, Franco Quantum Markov semigroups: structure and asymptotics. (English summary) **2005d:46148**
— *see also* **Comman, Henri, 2005i:46060**
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Feng, Jun-Lan *see* **Yao, Qian-Kai et al.**
Feng, Xue-Chao *see* **Yao, Qian-Kai et al.**
Fischer, Uwe R. Quasiparticle universes in Bose-Einstein condensates. (English summary)
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Leschke, Hajo (*with* Warzel, Simone; Weichlein, Alexandra) Ballistic transport in random magnetic fields with anisotropic long-ranged correlations. (English summary) **2005j:82007**
Li, De-Min *see* **Yao, Qian-Kai et al.**
Lin, Bihong (*with* Chen, Jincan) Optimal analysis of the performance of an irreversible quantum heat engine with spin systems. (English summary) **2005i:82057**
Lu, Xuguang (*with* Wennberg, Bernt) On stability and strong convergence for the spatially homogeneous Boltzmann equation for Fermi-Dirac particles. (English summary) **2005a:82092**
Ma, Bing *see* **Yao, Qian-Kai et al.**
Manzini, Chiara (*with* Barletti, Luigi) An analysis of the Wigner-Poisson problem with inflow boundary conditions. (English summary) **2005h:35294**
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Patricot, Christophe *see* **Arrighi, Pablo, 2005a:81014**
Paz, Juan Pablo (*with* Zurek, Wojciech Hubert) Environment-induced decoherence and the transition from quantum to classical. (English summary) (*see* **2005d:81105**)
Pelinovsky, Dmitry E. (*with* Kevrekidis, Panayotis G.; Frantzeskakis, Dimitri J.; Zharnitsky, Vadim) Hamiltonian averaging for solitons with nonlinearity management. (English summary) **2005k:35383**
Petrina, Dmitro Yakovich Equilibrium and nonequilibrium states of model Fröhlich-Peierls Hamiltonian. (English and Ukrainian summaries) **2005g:82013**
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Pron'ko, G. P. *see* **Antoniou, Ioannis E. et al., (2005d:00011)**
Pulvirenti, Mario *see* **Benedetto, Dario et al., 2005g:82110**
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Ruggeri, Tommaso (*with* Trovato, Massimo) Hyperbolicity region for Fermi and Bose gases. (English summary) (*see* **2005c:00016**)
Schmidt, Andreas U. Mathematics of the quantum Zeno effect. (English summary) **2005g:81042**
Sewell, Geoffrey L. Interplay between classical and quantum structures in algebraic quantum theory. (English summary) **2005f:81097**
Silbey, R. J. *see* **Cheng, Yuan-Chung, 2005d:81084**
Sparber, Christof (*with* Carrillo, José-Antonio; Dolbeault, Jean; Markowich, Peter A.) On the long-time behavior of the quantum Fokker-Planck equation. (English summary) **2005f:82090**
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Tanikawa, Kiyotaka *see* **Yamaguchi, Yoshihiro, 2005b:37084**
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Trovato, Massimo *see* **Ruggeri, Tommaso, (2005c:00016)**
Tveritinov, I. D. Asymptotic decoherence in quantum systems. (English summary) **2005f:81014**
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Vishwanath, Ashvin *see* **Ambainis, Andris et al., (2005j:68008)**
Warzel, Simone *see* **Leschke, Hajo et al., 2005j:82007**
Watrous, John *see* **Ambainis, Andris et al., (2005j:68008)**
Weichlein, Alexandra *see* **Leschke, Hajo et al., 2005j:82007**
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Yamaguchi, Yoshihiro (*with* Tanikawa, Kiyotaka) Periodic orbits in the quadruply reversible non-twist Harper map. (English summary) **2005b:37084**
Yao, Qian-Kai (*with* Ma, Bing; Feng, Xue-Chao; Feng, Jun-Lan; Li, De-Min) Canonical transformation on an open system. (English summary)
Yarom, Amos *see* **Brustein, Ram, 2005i:81109**
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Zhao, Ren (*with* Zhang, Li Chun) Quantum statistical entropy of black hole. (Chinese. English and Chinese summaries) **2005f:83064**
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Adachi, Susumu *see* **Lee, Jia et al., 2005h:82079**
Albano, Ezequiel V. Comment on: "Transverse fluctuations in the driven lattice gas" [J. Phys. A **36** (2003), no. 21, L315–L320; MR1985486] by S. Caracciolo, A. Gambassi, M. Gubinelli and A. Pelissetto. (English summary)
— *see also* **Caracciolo, Sergio et al.**
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Andrzejak, Ralph G. *see* **Smirnov, Dmitry A., 2005m:82103**
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Banaji, Murad Strongly asymmetric clustering in systems of phase oscillators. (English summary) **2005m:82096**
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Brankov, Jordan G. (*with* Priezzhev, V. B.; Shelest, R. V.) Generalized determinant solution of the discrete-time totally asymmetric exclusion process and zero-range process. (English summary)
Braun, O. M. (*with* Hu, Bambi) Two-dimensional two-state lattice-gas model. (English summary) **2005k:82060**
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Bunimovich, Leonid A. (*with* Khlabystova, Milena A.) One-dimensional Lorentz gas with rotating scatterers: exact solutions. (English summary) **2005g:82083**
— (*with* Kreslavskiy, D. M.) Lorentz gas cellular automata on graphs. (English summary **2005m:82098**
Cao Garcia, Francisco Javier Freezing of nonlinear Bloch oscillations in the generalized discrete nonlinear Schrödinger equation. (English summary) **2005k:82061**
Capobianco, Silvio *see* **Toffoli, Tommaso et al., 2005j:82054**
Caracciolo, Sergio (*with* Gambassi, Andrea; Gubinelli, Massimiliano; Pelissetto, Andrea) Reply to: "Comment on: 'Transverse fluctuations in the driven lattice gas'" [J. Phys. A 37 (2004), no. 33, 8189–8191; MR2091946] by E. V. Albano.
— (*with* Gambassi, Andrea; Gubinelli, Massimiliano; Pelissetto, Andrea) Finite-size scaling in the driven lattice gas. (English summary)
— *see also* **Albano, Ezequiel V.**
Chalker, J. T. *see* **Hogan, P. M., 2005g:82084**
Chen, Guanrong *see* **Lü, Jinhu et al., 2005j:82051** *and* **Li, Chūn Guang**
Chew, Y. T. *see* **Niu, X. D. et al., 2005f:82073**
Cirillo, Emilio N. M. (*with* Nardi, Francesca R.) Metastability for a stochastic dynamics with a parallel heat bath updating rule. (English summary) **2005a:82070**
Cornforth, David (*with* Green, David G.; Newth, David) Ordered asynchronous processes in multi-agent systems. (English summary)
Curado, Evaldo M. F. *see* **Oliveira-Neto, N. M. et al., 2005f:82074**
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D'Souza, Raissa M. (*with* Homsy, George E.; Margolus, Norman H.) Simulating digital logic with the reversible aggregation model of crystal growth. **2005f:82072**
Dubcová, Miroslava (*with* Klíč, Alois; Pokorný, P.; Turzík, Daniel) Stability of spatially periodic solutions in coupled map lattices. (English summary) **2005d:82081**
Dyer, Martin (*with* Sinclair, Alistair; Vigoda, Eric; Weitz, Dror) Mixing in time and space for lattice spin systems: a combinatorial view. (English summary) **2005d:82082**
— (*with* Sinclair, Alistair; Vigoda, Eric; Weitz, Dror) Mixing in time and space for lattice spin systems: a combinatorial view. (English summary) **2005d:82083**
Eilbeck, J. C. (*with* Palmero, F.) Trapping in quantum chains. (English summary) **2005d:82084**
Evans, M. R. (*with* Hanney, T.) Nonequilibrium statistical mechanics of the zero-range process and related models. (English summary) **2005m:82099**
Farago, Jean Energy profile fluctuations in dissipative nonequilibrium stationary states. (English summary) **2005i:82047**
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Gambassi, Andrea *see* **Caracciolo, Sergio et al.** *and* **Albano, Ezequiel V.**
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Geniet, F. (*with* Leon, Jérôme Jp.) Nonlinear supratransmission: energy transmission by nonlinear mode generation. (English summary) (*see* **2005b:00020**)
Gobert, Dominique (*with* Kollath, Corinna; Schollwöck, Ulrich; Schütz, Gunter M.) Real-time dynamics in spin-$\frac{1}{2}$ chains with adaptive time-dependent density matrix renormalization group. (English summary) **2005m:82100**
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Jiang, Rui (*with* Jia, Bin; Wu, Qing-Song) Stochastic multi-value cellular automata models for bicycle flow. (English summary) **2005a:82072**
Johansson, Magnus (*with* Rasmussen, Kim Ø.) Statistical mechanics of general discrete nonlinear Schrödinger models: localization transition and its relevance for Klein-Gordon lattices. (English summary) **2005k:82063**
Kevrekidis, Panayotis G. (*with* Konotop, V. V.; Malomed, Boris A.; Bishop, Alan R.) Nonlinearity from geometric interactions: a case example. (English summary) **2005j:82050**
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Lee, Jia (*with* Adachi, Susumu; Peper, Ferdinand; Morita, Kenichi) Asynchronous game of life. (English summary) **2005h:82079**
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Li, Chun Guang (*with* Chen, Guanrong) Phase synchronization in small-world networks of chaotic oscillators. (English summary)
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Miroshnichenko, A. E. (*with* Mingaleev, Sergei F.; Flach, Sergej; Kivshar, Yuri S.) Nonlinear Fano resonance and bistable wave transmission. (English summary) **2005k:82064**
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Nilsson, Martin[1] (*with* Rasmussen, Steen; Mayer, Bernd; Whitten, David) Constructive molecular dynamics lattice gases: three-dimensional molecular self-assembly. **2005d:82088**
Niu, X. D. (*with* Shu, Chang[1]; Chew, Y. T.; Wang, Tong Guang) Investigation of stability and hydrodynamics of different lattice Boltzmann models. (English summary) **2005f:82073**
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Oomes, Nienke A. Emerging markets and persistent inequality in a nonlinear voter model. (*see* **2005b:82059**)
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Pantelidis, Leonidas Nonlinear spin waves for the Heisenberg model and the ferromagnetic-antiferromagnetic bifurcations. (English summary) **2005g:82085**
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Presilla, Carlo *see* **Ostilli, Massimo, 2005j:82053**
Priezzhev, V. B. *see* **Brankov, Jordan G. et al.**
Pronina, Ekaterina (*with* Kolomeisky, Anatoly B.) Two-channel totally asymmetric simple exclusion processes. (English summary)
Rasmussen, Kim Ø. *see* **Johansson, Magnus, 2005k:82063**
Rasmussen, Steen *see* **Nilsson, Martin[1] et al., 2005d:82088**
Rego-Monteiro, M. A. *see* **Oliveira-Neto, N. M. et al., 2005f:82074**
Reigada, Ramon (*with* Sarmiento Galán, Antonio F.; Lindenberg, Katja) Breathers and thermal relaxation in Fermi-Pasta-Ulam arrays. (English summary) **2005c:82062**
Rumpf, Benno (*with* Newell, Alan C.) Localization and coherence in nonintegrable systems. (English summary) **2005c:82063**
Sarmiento Galán, Antonio F. *see* **Reigada, Ramon et al., 2005c:82062**
Schenkel, Alain *see* **Lefevere, R., 2005d:82086**
Schimansky-Geier, Lutz *see* **Prager, T., 2005m:82102**
Schmittmann, B. *see* **Mobilia, Mauro et al., 2005d:82087**
Schollwöck, Ulrich *see* **Gobert, Dominique et al., 2005m:82100**
Schütz, Gunter M. *see* **Gobert, Dominique et al., 2005m:82100**
Semerjian, Guilhem (*with* Weigt, Martin) Approximation schemes for the dynamics of diluted spin models: the Ising ferromagnet on a Bethe lattice. (English summary) **2005g:82086**
Sen, Parongama (*with* Dasgupta, Subinay) Persistence and dynamics in the ANNNI chain. (English summary)
Shelest, R. V. *see* **Brankov, Jordan G. et al.**
Shu, Chang[1] *see* **Niu, X. D. et al., 2005f:82073**
Sinclair, Alistair *see* **Dyer, Martin et al., 2005d:82082; 2005d:82083** *and* **Martinelli, Fabio et al., 2005j:82052**
Skripnik, V. I. Long-range order in classical lattice linear oscillator systems and Peierls argument. (English summary)
Smirnov, Dmitry A. (*with* Andrzejak, Ralph G.) Detection of weak directional coupling: phase-dynamics approach versus state-space approach. (English summary) **2005m:82103**
Sturzu, I. (*with* Khatun, M.) Quantum statistics for quantum-dot cellular automata. (English and Romanian summaries) **2005g:82087**
Suzudo, Tomoaki Spatial pattern formation in asynchronous cellular automata with mass conservation. (English summary) **2005f:82075**
Takagi, Taichiro *see* **Kuniba, Atsuo et al., 2005a:82073**
Takenouchi, Akira *see* **Kuniba, Atsuo et al., 2005a:82073**
Toffoli, Tommaso (*with* Capobianco, Silvio; Mentrasti, Patrizia) How to turn a second-order cellular automaton into a lattice gas: a new inversion scheme. (English summary) **2005j:82054**
Tokihiro, Tetsuji *see* **Mada, Jun et al., 2005i:82048**
Toom, André *see* **Fernández, Roberto, 2005a:82071**
Tsallis, Constantino *see* **Nobre, Fernando D., 2005b:82058**
Turzík, Daniel *see* **Dubcová, Miroslava et al., 2005d:82081**
Venable, Jessica *see* **Gann, Reuben et al., 2005e:82072**
Vigoda, Eric *see* **Dyer, Martin et al., 2005d:82082** *and* **2005d:82083**
Wang, Tong Guang *see* **Niu, X. D. et al., 2005f:82073**
Weigt, Martin *see* **Semerjian, Guilhem, 2005g:82086**
Weitz, Dror *see* **Dyer, Martin et al., 2005d:82082; 2005d:82083** *and* **Martinelli, Fabio et al., 2005j:82052**
Whitten, David *see* **Nilsson, Martin[1] et al., 2005d:82088**
Wu, Qing-Song *see* **Jiang, Rui et al., 2005a:82072**
Yu, Xinghuo *see* **Lü, Jinhu et al., 2005j:82051**
Zhou, Xin[3] (*with* Iwamoto, Mitsumasa) Heat conduction and long-range spatial correlation in 1D models. (English summary)
Zia, R. K. P. *see* **Mobilia, Mauro et al., 2005d:82087**

Items listed otherwise than by author

New constructions in cellular automata ★ New constructions in cellular automata. **2005b:82059**

Santa Fe, NM ★ New constructions in cellular automata. **2005b:82059**

Items with secondary classifications in 82C20

Adachi, Susumu (*with* Peper, Ferdinand; Lee, Jia) Computation by asynchronously updating cellular automata. (English summary) **2005a:68141**

Alexander, J. McKenzie *see* **Vanderschraaf, Peter**

Anteneodo, Celia (*with* Batista, Antonio M.; Viana, Ricardo L.) Chaos synchronization in long-range coupled map lattices. (English summary) **2005d:37165**

Antonyuk, A. Vikt. Regularity properties of infinite-dimensional evolutions, rèlated with anharmonic lattice systems. (English summary) **2005h:82084**

Archilla, J. F. R. *see* **Cuevas, J. et al., 2005h:37199**

Ayzenberg-Stepanenko, M. V. *see* **Slepyan, Leonid, 2005a:74077**

Batista, Antonio M. *see* **Anteneodo, Celia et al., 2005d:37165**

Belitsky, Vladimir (*with* Ferrari, Pablo Augusto) Invariant measures and convergence properties for cellular automaton 184 and related processes. (English summary) **2005i:37018**

Belykh, Igor V. (*with* Belykh, Vladimir N.; Hasler, Martin) Blinking model and synchronization in small-world networks with a time-varying coupling. (English summary) **2005h:37208**

— *see also* **Belykh, Vladimir N. et al., 2005g:37070**

Belykh, Vladimir N. (*with* Belykh, Igor V.; Hasler, Martin) Connection graph stability method for synchronized coupled chaotic systems. (English summary) **2005g:37070**

— *see also* **Belykh, Igor V. et al., 2005h:37208**

Ben Abdallah, Naoufel (*with* Chaker, Hédia) Diffusion induced by grain boundaries: a SHE model. (English summary) **2005g:82120**

Bian, Guo-Xing *see* **Zhu, Kai-En et al., 2005b:37059**

Billings, Stephen A. *see* **Mei, S. S. et al., 2005m:37031**

Biskup, Marek (*with* Blanchard, Philippe; Chayes, Lincoln; Gandolfo, D.; Krüger, Tyll) Phase transition and critical behavior in a model of organized criticality. (English summary) **2005c:82079**

Bjelaković, Igor (*with* Krüger, Tyll; Siegmund-Schultze, Rainer; Szkoła, Arleta) The Shannon-McMillan theorem for ergodic quantum lattice systems. (English summary) **2005g:81168**

Blanchard, Philippe *see* **Biskup, Marek et al., 2005c:82079**

Blank, Michael Ergodic properties of a simple deterministic traffic flow model. (English summary) **2005f:37188**

Bodineau, Thierry (*with* Ioffe, Dimitri) Stability of interfaces and stochastic dynamics in the regime of partial wetting. (English summary) **2005j:82061**

Boiti, M. (*with* Leon, Jérôme Jp.; Pempinelli, F.; Spire, A.) Resonant two-wave interaction in the Davydov model. (English summary) **2005a:37133**

Bunimovich, Leonid A. Walks in rigid environments: symmetry and dynamics. (English and French summaries) **2005c:82078**

Carpio, A. Nonlinear stability of oscillatory wave fronts in chains of coupled oscillators. (English summary) **2005e:37171**

Cervelle, Julien (*with* Formenti, Enrico) On sand automata. (English summary) **2005c:68131**

Chafaï, Djalil Glauber versus Kawasaki for spectral gap and logarithmic Sobolev inequalities of some unbounded conservative spin systems. (English summary) **2005b:60253**

Chaker, Hédia *see* **Ben Abdallah, Naoufel, 2005g:82120**

Chayes, Lincoln *see* **Biskup, Marek et al., 2005c:82079**

Chen, Chia-Chu *see* **Liu, Ru-Fen, 2005a:37021**

Chen, Guanrong *see* **Li, Chun Guang, 2005f:34212**

Chen, Tian-Lun *see* **Zhu, Kai-En et al., 2005b:37059**

Chen, Yihui *see* **Qin, Wen-Xin, 2005a:37156**

Cook, Matthew Still life theory. **2005f:68095**

Cornille, Henri Planar DVMs mixtures models with the same geometrical structure. (English summary) (*see* **2005c:00016**)

Corte-Real, João *see* **Gonçalves Lind, Pedro et al., 2005f:37171**

Cuevas, J. (*with* Archilla, J. F. R.; Romero Romero, F.) Effect of the introduction of impurities on the stability properties of multibreathers at low coupling. (English summary) **2005h:37199**

Cugliandolo, Leticia F. *see* **Semerjian, Guilhem et al.**

De Masi, Anna Spin systems with long range interactions. **2005e:82032**

Eloranta, Kari The bounded eight-vertex model. (English summary) **2005b:82018**

Evans, Kellie Michele Replicators and larger-than-life examples. **2005h:37025**

Falo, F. *see* **Martínez, P. J. et al., 2005c:37161**

Fečkan, Michal Dynamics of nonlinear diatomic lattices. (English summary) **2005a:37155**

Ferrari, Pablo Augusto *see* **Belitsky, Vladimir, 2005i:37018**

Floría, L. M. *see* **Martínez, P. J. et al., 2005c:37161**

Formenti, Enrico *see* **Cervelle, Julien, 2005c:68131**

Freedman, Michael Hartley (*with* Nayak, Chetan; Shtengel, Kirill; Walker, Kevin; Wang, Zhenghan) A class of P, T-invariant topological phases of interacting electrons. (English summary) **2005f:81225**

Fujioka, J. *see* **González-Pérez-Sandi, S. et al., 2005g:37138**

Fukś, Henryk Critical behaviour of number-conserving cellular automata with nonlinear fundamental diagrams. (English summary) **2005h:82089**

aus der Fünten, Thomas *see* **Mühlenbein, Heinz, 2005g:82097**

Gallas, Jason A. C. *see* **Gonçalves Lind, Pedro et al., 2005f:37171**

Gandolfo, D. *see* **Biskup, Marek et al., 2005c:82079**

Giannoulis, Johannes (*with* Mielke, Alexander) The nonlinear Schrödinger equation as a macroscopic limit for an oscillator chain with cubic nonlinearities. (English summary) **2005a:37143**

Golubitsky, Martin *see* **Wang, Yunjiao, 2005i:37032**

Gonçalves Lind, Pedro (*with* Corte-Real, João; Gallas, Jason A. C.) Pattern formation in diffusive-advective coupled map lattices. (English summary) **2005f:37171**

González-Pérez-Sandi, S. (*with* Fujioka, J.; Malomed, Boris A.) Embedded solitons in dynamical lattices. (English summary) **2005g:37138**

Gough, John Edward The open XY model. (English summary) **2005e:82069**

Griffeath, David (*with* Hickerson, Dean) A two-dimensional cellular automaton crystal with irrational density. **2005g:68107**

Guo, Ling Zhong *see* **Mei, S. S. et al., 2005m:37031**

Hardy, Yorick (*with* Steeb, Willi-Hans) Entanglement, Hubbard model, and symmetries. (English summary) **2005b:81013**

Hasler, Martin *see* **Belykh, Vladimir N. et al., 2005g:37070** *and* **Belykh, Igor V. et al., 2005h:37208**

Hayashi, Keisuke *see* **Horiguchi, Tsuyoshi et al.**

Hellberg, C. Stephen *see* **Weinstein, Yaakov S., 2005d:81104**

Henkel, Malte *see* **Picone, Alan, 2005f:82088**

Hickerson, Dean *see* **Griffeath, David, 2005g:68107**

Higuchi, Yasunari (*with* Murai, Joushin; Wang, Jun) The Dobrushin-Hryniv theory for the two-dimensional lattice Widom-Rowlinson model. (English summary) **2005h:82087**

Ho, Ming-Chung (*with* Hung, Yao-Chen; Jiang, I-Min) Phase synchronization in inhomogeneous globally coupled map lattices. (English summary)

den Hollander, Frank Gibbs under stochastic dynamics? (English summary)

Horiguchi, Tsuyoshi (*with* Takahashi, Hideyuki; Hayashi, Keisuke; Yamaguchi, Chiaki) Ising model for packet routing control. (English summary)

Hughes, Joy V. Cellular automata for imaging, art, and video. (*see* **2005b:82059**)

Hung, Yao-Chen *see* **Ho, Ming-Chung et al.**

Hunt, Brian R. *see* **Restrepo, Juan G. et al., 2005k:34147**

Ioffe, Dimitri *see* **Bodineau, Thierry, 2005j:82061**

Jia, Bin *see* **Jiang, Rui et al., 2005e:90017**

Jiang, I-Min *see* **Ho, Ming-Chung et al.**

Jiang, Rui (*with* Jia, Bin; Wang, Xiao-Lin; Wu, Qing-Song) Dangerous situations in the velocity effect model. (English summary) **2005e:90017**

Keller, Gerhard (*with* Liverani, Carlangelo) Coupled map lattices without cluster expansion. (English summary) **2005h:37052**

Konno, Norio (*with* Mistuda, K.; Soshi, T.; Yoo, Hyun Jae) Quantum walks and reversible cellular automata. (English summary) **2005f:82111**

Korsch, H. J. *see* **Mossmann, S. et al., 2005k:81379**

Koukouloyannis, Vassilis (*with* MacKay, Robert S.) Existence and stability of 3-site breathers in a triangular lattice. (English summary) **2005i:37090**

Krivovichev, S. V. Crystal structures and cellular automata. (English summary) **2005a:82111**

Krüger, Tyll *see* **Biskup, Marek et al., 2005c:82079** *and* **Bjelaković, Igor et al., 2005g:81168**

Lee, Jia *see* **Adachi, Susumu et al., 2005a:68141**

Le Ny, Arnaud (*with* Redig, Frank) Large deviation principle at fixed time in Glauber evolutions. (English summary) **2005h:60300**

Leon, Jérôme Jp. *see* **Boiti, M. et al., 2005a:37133**

Li, Chuandong (*with* Liao, Xiaofeng; Zhang, Rong[3]) Impulsive synchronization of nonlinear coupled chaotic systems. (English summary)

Li, Chun Guang (*with* Chen, Guanrong) Synchronization in general complex dynamical networks with coupling delays. (English summary) **2005f:34212**

Liao, Xiaofeng *see* **Li, Chuandong et al.**

Liu, Ru-Fen (*with* Chen, Chia-Chu) Analytic proof of the attractors of a class of cellular automaton. (English summary) **2005a:37021**

Liverani, Carlangelo *see* **Keller, Gerhard, 2005h:37052**

Louis, Pierre-Yves Ergodicity of PCA: equivalence between spatial and temporal mixing conditions. (English summary) **2005k:60158**

Ma, Wen Xiu (*with* Maruno, Ken-ichi) Complexiton solutions of the Toda lattice equation. (English summary) **2005h:37181**

MacKay, Robert S. *see* **Koukouloyannis, Vassilis, 2005i:37090**

Malomed, Boris A. *see* **González-Pérez-Sandi, S. et al., 2005g:37138**

Margolus, Norman H. Universal cellular automata based on the collisions of soft spheres. **2005m:37030**

Martinelli, Fabio Relaxation times of Markov chains in statistical mechanics and combinatorial structures. (English summary) **2005b:60260**

Martínez, P. J. (*with* Meister, Matthias; Floría, L. M.; Falo, F.) Dissipative discrete breathers: periodic, quasiperiodic, chaotic, and mobile. (English summary) **2005c:37161**

Maruno, Ken-ichi *see* **Ma, Wen Xiu, 2005h:37181**

Matamala, Martín (*with* Moreno, Eduardo) Dynamic of cyclic automata over $\mathbb{Z}^2$. (English summary) **2005k:37017**

Matsui, Taku (*with* Ogata, Yoshiko) Variational principle for non-equilibrium steady states of the XX model. (English summary) **2005g:82080**

Mei, S. S. (*with* Billings, Stephen A.; Guo, Ling Zhong) A neighborhood selection method for cellular automata models. (English summary) **2005m:37031**

Meister, Matthias *see* **Martínez, P. J. et al., 2005c:37161**

Mielke, Alexander *see* **Giannoulis, Johannes, 2005a:37143**

Mistuda, K. *see* **Konno, Norio et al., 2005f:82111**

Miyadera, Takayuki Slow decay of dynamical correlation functions for nonequilibrium quantum states. (English summary) **2005g:82081**

Mizraji, Eduardo The emergence of dynamical complexity: an exploration using elementary cellular automata. (English summary) **2005f:37029**

Montanari, Andrea *see* **Semerjian, Guilhem et al.**

Moreno, Eduardo *see* **Matamala, Martín, 2005k:37017**

Mossmann, S. (*with* Schulze, A.; Witthaut, Dirk; Korsch, H. J.) Two-dimensional Bloch oscillations: a Lie-algebraic approach. (English summary) **2005k:81379**

Mühlenbein, Heinz (*with* aus der Fünten, Thomas) An investigation of the phase transitions of a family of probabilistic automata. (English summary) **2005g:82097**

Murai, Joushin *see* **Higuchi, Yasunari et al., 2005h:82087**

Nachtergaele, Bruno (*with* Spitzer, Wolfgang L.; Starr, Shannon) On the dynamics of interfaces in the ferromagnetic XXZ chain under weak perturbations. (English summary) **2005a:82066**

Nayak, Chetan *see* **Freedman, Michael Hartley et al., 2005f:81225**

Niemiec, Mark D. Synthesis of complex life objects from gliders. **2005c:68192**

Nobe, Atsushi (*with* Yura, Fumitaka) On reversibility of cellular automata with periodic boundary conditions. (English summary) **2005k:37018**
Ogata, Yoshiko *see* **Matsui, Taku, 2005g:82080**
Olivieri, Enzo (*with* Vares, Maria Eulália) ★ Large deviations and metastability. **2005k:60007**
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Pempinelli, F. *see* **Boiti, M. et al., 2005a:37133**
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Pérez, Gabriel *see* **Salazar-Neumann, Elena et al., 2005m:82113**
Picone, Alan (*with* Henkel, Malte) Local scale-invariance and ageing in noisy systems. (English summary) **2005f:82088**
Qin, Wen-Xin (*with* Chen, Yihui) Bifurcations and persistence of equilibria in high-dimensional lattice dynamical systems. (English summary) **2005a:37156**
Redig, Frank *see* **Le Ny, Arnaud, 2005h:60300**
Ren, Meng Zhang Approximate inertial manifolds for the equations of ferromagnetic chains. (Chinese. English and Chinese summaries) **2005a:37148**
Restrepo, Juan G. (*with* Ott, Edward; Hunt, Brian R.) Onset of synchronization in large networks of coupled oscillators. (English summary) **2005k:34147**
Richmond, Peter *see* **Sabatelli, Lorenzo, 2005k:91207**
Romero Romero, F. *see* **Cuevas, J. et al., 2005h:37199**
Rucker, Rudy Continuous-valued cellular automata in two dimensions. **2005d:82066**
Sabatelli, Lorenzo (*with* Richmond, Peter) A consensus-based dynamics for market volumes. (English summary) **2005k:91207**
Salazar-Neumann, Elena (*with* Vargas, María Cristina; Pérez, Gabriel) Critical behavior of a dynamic analog to the $q = 3$ Potts model. (English summary) **2005m:82113**
Sano, Masaki *see* **Toyabe, Shoichi, 2005k:92040**
Schulze, A. *see* **Mossmann, S. et al., 2005k:81379**
Semerjian, Guilhem (*with* Cugliandolo, Leticia F.; Montanari, Andrea) On the stochastic dynamics of disordered spin models. (English summary)
Shtengel, Kirill *see* **Freedman, Michael Hartley et al., 2005f:81225**
Siegmund-Schultze, Rainer *see* **Bjelaković, Igor et al., 2005g:81168**
Slepyan, Leonid (*with* Ayzenberg-Stepanenko, M. V.) Localized transition waves in bistable-bond lattices. (English summary) **2005a:74077**
Soshi, T. *see* **Konno, Norio et al., 2005f:82111**
Spire, A. *see* **Boiti, M. et al., 2005a:37133**
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Takahashi, Hideyuki *see* **Horiguchi, Tsuyoshi et al.**
Tokihiro, Tetsuji Ultradiscrete systems (cellular automata). (English summary) **2005h:37026**
Toyabe, Shoichi (*with* Sano, Masaki) Spatial suppression of error catastrophe in a growing pattern. (English summary) **2005k:92040**
Tutschka, Christian Interacting squares in arbitrary external field. (English summary) **2005c:82066**
Umeno, Ken *see* **Yoshimura, Kazuyuki, 2005m:37129**
Vanderschraaf, Peter (*with* Alexander, J. McKenzie) Follow the leader: local interactions with influence neighborhoods. (English summary)
Vares, Maria Eulália *see* **Olivieri, Enzo, 2005k:60007**
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Wang, Xiao-Lin *see* **Jiang, Rui et al., 2005e:90017**
Wang, Yunjiao (*with* Golubitsky, Martin) Two-colour patterns of synchrony in lattice dynamical systems. (English summary) **2005i:37032**
Wang, Zhenghan *see* **Freedman, Michael Hartley et al., 2005f:81225**
Weinstein, Yaakov S. (*with* Hellberg, C. Stephen) Quantum-cellular-automata pseudorandom maps. (English summary) **2005d:81104**
Witthaut, Dirk *see* **Mossmann, S. et al., 2005k:81379**
Wu, Qing-Song *see* **Jiang, Rui et al., 2005e:90017**
Yamaguchi, Chiaki *see* **Horiguchi, Tsuyoshi et al.**
Yoo, Hyun Jae *see* **Konno, Norio et al., 2005f:82111**
Yoshimura, Kazuyuki (*with* Umeno, Ken) Nonintegrability of nonhomogeneous nonlinear lattices. (English summary) **2005m:37129**
Yura, Fumitaka *see* **Nobe, Atsushi, 2005k:37018**
Zhang, Rong[3] *see* **Li, Chuandong et al.**
Zhizhina, E. A. Convergence properties of quasi-particles of various species in the stochastic Blume-Capel model. (English summary) **2005g:82093**
Zhu, Kai-En (*with* Chen, Tian-Lun; Bian, Guo-Xing) Controlling spatiotemporal chaos in coupled map lattices to periodic orbits. (English summary) **2005b:37059**

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Collet, Jean-François Some modelling issues in the theory of fragmentation-coagulation systems. (English summary) **2005m:82104**
Dorlas, Teunis C. (*with* Priezzhev, V. B.) A normalization identity for the asymmetric exclusion process on a ring. (English summary) **2005j:82055**
Filbet, Francis (*with* Laurençot, Philippe) Mass-conserving solutions and non-conservative approximation to the Smoluchowski coagulation equation. (English summary) **2005h:82081**
Kondrat'ev, Yu. G. (*with* Minlos, Robert; Zhizhina, E. A.) One-particle subspace of the Glauber dynamics generator for continuous particle systems. (English summary) **2005i:82049**
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Priezzhev, V. B. *see* **Dorlas, Teunis C., 2005j:82055**
Shirvani, M. (*with* Van Roessel, Henry J.) Spatially non-homogeneous coagulation equations with source terms. (English summary) **2005h:82082**
Van Roessel, Henry J. *see* **Shirvani, M., 2005h:82082**
Walker, Christoph On a new model for continuous coalescence and breakage processes with diffusion. (English summary) **2005h:82083**
Zhizhina, E. A. *see* **Kondrat'ev, Yu. G. et al., 2005i:82049**

Items with secondary classifications in 82C21

Biler, Piotr (*with* Laurençot, Philippe; Nadzieja, Tadeusz) On an evolution system describing self-gravitating Fermi-Dirac particles. (English summary) **2005j:35183**
Caglioti, Emanuele (*with* Chernov, Nikolai I.; Lebowitz, Joel L.) Stability of solutions of hydrodynamic equations describing the scaling limit of a massive piston in an ideal gas. (English summary) **2005h:82094**
Chernov, Nikolai I. On a slow drift of a massive piston in an ideal gas that remains at mechanical equilibrium. (English summary) **2005k:80002**
— *see also* **Caglioti, Emanuele et al., 2005h:82094**
Dirr, Nicolas A Stefan problem with surface tension as the sharp interface limit of a nonlocal system of phase-field type. (English summary) **2005b:80006**
van Duijn, C. J. (*with* Guerra, Ignacio A.; Peletier, Mark A.) Global existence conditions for a nonlocal problem arising in statistical mechanics. (English summary) **2005f:35301**
Guerra, Ignacio A. (*with* Peletier, Mark A.) Self-similar blow-up for a diffusion-attraction problem. (English summary) **2005h:35193**
— *see also* **van Duijn, C. J. et al., 2005f:35301**
Lachowicz, Mirosław (*with* Laurençot, Philippe; Wrzosek, Dariusz) On the Oort-Hulst-Safronov coagulation equation and its relation to the Smoluchowski equation. (English summary) **2005a:45007**
Laurençot, Philippe *see* **Lachowicz, Mirosław et al., 2005a:45007** *and* **Biler, Piotr et al., 2005j:35183**
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Peletier, Mark A. *see* **van Duijn, C. J. et al., 2005f:35301** *and* **Guerra, Ignacio A., 2005h:35193**
Rosier, Carole (*with* Rosier, Lionel) On the global existence of solutions for a non-local problem occurring in statistical mechanics. (English summary) **2005i:35157**
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Schaeffer, Jack The Vlasov Poisson system with steady spatial asymptotics. (English summary) **2005g:82124**
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82C22 Interacting particle systems [see also 60K35]

Alikakos, Nicholas D. (*with* Fusco, Giorgio) Ostwald ripening for dilute systems under quasistationary dynamics. (English summary) **2005e:82073**
— (*with* Fusco, Giorgio; Karali, Georgia) The effect of the geometry of the particle distribution in Ostwald ripening. (English summary) **2005e:82074**
Antonyuk, A. Vikt. Regularity properties of infinite-dimensional evolutions, related with anharmonic lattice systems. (English summary) **2005h:82084**
Athreya, Siva R. (*with* Járai, Antal, Jr.) Infinite volume limit for the stationary distribution of abelian sandpile models. (English summary) **2005m:82106**
van den Berg, Jacob (*with* Járai, Antal, Jr.) On the asymptotic density in a one-dimensional self-organized critical forest-fire model. (English summary) **2005m:82107**
Berger, Noam (*with* Kenyon, Claire; Mossel, Elchanan; Peres, Yuval) Glauber dynamics on trees and hyperbolic graphs. (English summary) **2005k:82066**
Bertini, Lorenzo (*with* Toninelli, Cristina) Exclusion processes with degenerate rates: convergence to equilibrium and tagged particle. (English summary) **2005e:82075**
Blythe, R. A. (*with* Janke, Wolfhard; Johnston, Desmond A.; Kenna, R.) The grand-canonical asymmetric exclusion process and the one-transit walk. (English summary) **2005j:82056**
Derrida, Bernard (*with* Enaud, C.; Lebowitz, Joel L.) The asymmetric exclusion process and Brownian excursions. (English summary) **2005h:82085**
— (*with* Douçot, B.; Roche, P.-E.) Current fluctuations in the one-dimensional symmetric exclusion process with open boundaries. (English summary) **2005d:82089**
— *see also* **Enaud, C., 2005e:82076**
De Sanctis, L. (*with* Isopi, M.) On the "matrix approach" to interacting particle systems. (English summary) **2005c:82064**
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Douçot, B. *see* **Derrida, Bernard et al., 2005d:82089**
Enaud, C. (*with* Derrida, Bernard) Large deviation functional of the weakly asymmetric exclusion process. (English summary) **2005e:82076**
— *see also* **Derrida, Bernard et al., 2005h:82085**
Fournier, Nicolas (*with* Giet, Jean-Sébastien) On small particles in coagulation-fragmentation equations. (English summary) **2005a:82076**
Fusco, Giorgio *see* **Alikakos, Nicholas D. et al., 2005e:82073** *and* **2005e:82074**
Giet, Jean-Sébastien *see* **Fournier, Nicolas, 2005a:82076**
Golinelli, O. (*with* Mallick, K.) Bethe ansatz calculation of the spectral gap of the asymmetric exclusion process. (English summary) **2005a:82077**
— (*with* Mallick, K.) Hidden symmetries in the asymmetric exclusion process. (English summary) **2005i:82050**
— (*with* Mallick, K.) Spectral gap of the totally asymmetric exclusion process at arbitrary filling. (English summary) **2005h:82086**
Golse, François The mean-field limit for the dynamics of large particle systems. (English summary) **2005f:82076**
Großkinsky, Stefan (*with* Spohn, Herbert) Stationary measures and hydrodynamics of zero range processes with several species of particles. (English summary) **2005d:82090**

— (*with* Klingenberg, Christian; Oelschläger, Karl) A rigorous derivation of Smoluchowski's equation in the moderate limit. (English summary) **2005a:82078**
Hayakawa, Hisao *see* **Mitsudo, Tetsuya, 2005k:82068**
den Hollander, Frank Gibbs under stochastic dynamics? (English summary)
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Janke, Wolfhard *see* **Blythe, R. A. et al., 2005j:82056**
Járai, Antal, Jr. *see* **Athreya, Siva R., 2005m:82106** *and* **van den Berg, Jacob, 2005m:82107**
Johnston, Desmond A. *see* **Blythe, R. A. et al., 2005j:82056**
Juhász, Róbert (*with* Santen, Ludger) Dynamics of an exclusion process with creation and annihilation. (English summary) **2005g:82088**
Karali, Georgia *see* **Alikakos, Nicholas D. et al., 2005e:82074**
Katori, Makoto (*with* Nagao, Taro; Tanemura, Hideki) Infinite systems of non-colliding Brownian particles. (English summary) **2005f:82077**
Kenna, R. *see* **Blythe, R. A. et al., 2005j:82056**
Kenyon, Claire *see* **Berger, Noam et al., 2005k:82066**
Khorrami, Mohammad *see* **Roshani, Farinaz, 2005b:82060**
Klingenberg, Christian *see* **Großkinsky, Stefan et al., 2005a:82078**
Kondrat'ev, Yu. G. (*with* Rebenko, A. L.; Röckner, Michael) On diffusion dynamics for continuous systems with singular superstable interaction. (English summary) **2005e:82077**
Kuoza, L. V. (*with* Lifshits, Mikhail A.) Aggregation in a one-dimensional gas model with stable initial data. (Russian. English and Russian summaries) **2005j:82057**
Landim, Claudio (*with* Olla, Stefano; Varadhan, Srinivasa R. S.) On viscosity and fluctuation-dissipation in exclusion processes. (English summary) **2005k:82067**
Lebowitz, Joel L. *see* **Derrida, Bernard et al., 2005h:82085**
Lifshits, Mikhail A. *see* **Kuoza, L. V., 2005j:82057**
Mallick, K. *see* **Golinelli, O., 2005a:82077; 2005h:82086** *and* **2005i:82050**
Menon, Govind (*with* Pego, Robert L.) Approach to self-similarity in Smoluchowski's coagulation equations. (English summary) **2005i:82051**
Mitsudo, Tetsuya (*with* Hayakawa, Hisao) Synchronization of kinks in the two-lane totally asymmetric simple exclusion process with open boundary conditions. (English summary) **2005k:82068**
Mossel, Elchanan *see* **Berger, Noam et al., 2005k:82066**
Nagao, Taro (*with* Sasamoto, Tomohiro) Asymmetric simple exclusion process and modified random matrix ensembles. (English summary) **2005g:82089**
— *see also* **Katori, Makoto et al., 2005f:82077**
Neishtadt, A. I. (*with* Sinaĭ, Ya. G.) Adiabatic piston as a dynamical system. (English summary) **2005d:82091**
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Olla, Stefano *see* **Landim, Claudio et al., 2005k:82067**
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Rebenko, A. L. *see* **Kondrat'ev, Yu. G. et al., 2005e:82077**
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Röckner, Michael *see* **Kondrat'ev, Yu. G. et al., 2005e:82077**
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Sudbury, Aidan The annihilating process on random trees and the square lattice. (English summary) **2005g:82090**
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Toninelli, Cristina *see* **Bertini, Lorenzo, 2005e:82075**
Toom, André Non-ergodicity in a 1-D particle process with variable length. (English summary) **2005g:82091**
Tóth, Bálint (*with* Valkó, Benedek) Perturbation of singular equilibria of hyperbolic two-component systems: a universal hydrodynamic limit. (English summary) **2005k:82069**
Uchiyama, Kôhei Equilibrium fluctuations for zero-range-exclusion processes. (English summary) **2005g:82092**
Valkó, Benedek *see* **Tóth, Bálint, 2005k:82069**
Varadhan, Srinivasa R. S. Particle systems and partial differential equations. **2005b:82061**
— *see also* **Landim, Claudio et al., 2005k:82067**
Vidigal, Ronaldo (*with* Dickman, Ronald) Asymptotic behavior of the order parameter in a stochastic sandpile. (English summary) **2005j:82058**
Zhang, Fu-xi Exclusion processes on groups: entropy production density and reversibility. (English summary) **2005j:82059**
Zhizhina, E. A. Convergence properties of quasi-particles of various species in the stochastic Blume-Capel model. (English summary) **2005g:82093**

Items with secondary classifications in 82C22

Aizenman, Michael *see* **Ruzmaikina, Anastasia, 2005j:60105**
Arnold, Anton (*with* Carrillo, José-Antonio; Desvillettes, Laurent; Dolbeault, Jean; Jüngel, Ansgar; Lederman, Claudia; Markowich, Peter A.; Toscani, Giuseppe; Villani, Cédric) Entropies and equilibria of many-particle systems: an essay on recent research. (English summary) **2005a:35123**
Asselah, Amine (*with* Castell, Fabienne) Existence of quasi-stationary measures for asymmetric attractive particle systems on $\mathbb{Z}^d$. (English summary) **2005b:60249**
— On the Dirichlet problem for asymmetric zero-range process on increasing domains. (English summary) **2005i:60193**
Bahadoran, Christophe Blockage hydrodynamics of one-dimensional driven conservative systems. (English summary) **2005f:60209**
Balázs, Márton Stochastic bounds on the zero range processes with superlinear jump rates. (English summary) **2005a:60153**
Bodineau, Thierry (*with* Giacomin, Giambattista) From dynamic to static large deviations in boundary driven exclusion particle systems. (English summary) **2005b:60252**
Cancrini, Nicoletta (*with* Cesi, Filippo; Roberto, Cyril) Diffusive long-time behavior of Kawasaki dynamics. (English summary) **2005m:60228**
Caputo, Pietro Spectral gap inequalities in product spaces with conservation laws. (English summary) **2005h:60293**
Carrillo, José-Antonio *see* **Arnold, Anton et al., 2005a:35123**
Castell, Fabienne *see* **Asselah, Amine, 2005b:60249**
Cesi, Filippo *see* **Cancrini, Nicoletta et al., 2005m:60228**
Chafaï, Djalil Glauber versus Kawasaki for spectral gap and logarithmic Sobolev inequalities of some unbounded conservative spin systems. (English summary) **2005b:60253**
Chen, Mu-Fa ★ From Markov chains to non-equilibrium particle systems. **2005h:60004**
Collet, Jean-François (*with* Goudon, Thierry; Hariz, Sara; Poupaud, Frédéric; Vasseur, Alexis) Some recent results on the kinetic theory of phase transitions. (English summary) **2005g:82096**
Deijfen, Maria (*with* Häggström, Olle) Coexistence in a two-type continuum growth model. (English summary) **2005k:60299**
Del Moral, Pierre ★ Feynman-Kac formulae. **2005f:60003**
Desvillettes, Laurent *see* **Arnold, Anton et al., 2005a:35123**
Dolbeault, Jean *see* **Arnold, Anton et al., 2005a:35123**
Dorlas, Teunis C. (*with* Priezzhev, V. B.) A normalization identity for the asymmetric exclusion process on a ring. (English summary) **2005j:82055**
Feng, Shui (*with* Grigorescu, Ilie; Quastel, Jeremy) Diffusive scaling limits of mutually interacting particle systems. (English summary) **2005f:60212**
Fritz, József (*with* Tóth, Bálint) Derivation of the Leroux system as the hydrodynamic limit of a two-component lattice gas. (English summary) **2005f:82063**
Funaki, Tadahisa Zero temperature limit for interacting Brownian particles. I. Motion of a single body. (English summary) **2005k:60300a**
— Zero temperature limit for interacting Brownian particles. II. Coagulation in one dimension. (English summary) **2005k:60300b**
Gao, Fu Qing (*with* Quastel, Jeremy) Moderate deviations from the hydrodynamic limit of the symmetric exclusion process. (English summary) **2005b:60256**
Giacomin, Giambattista *see* **Bodineau, Thierry, 2005b:60252**
Goudon, Thierry *see* **Collet, Jean-François et al., 2005g:82096**
Grigorescu, Ilie (*with* Kang, Min; Seppäläinen, Timo) Behavior dominated by slow particles in a disordered asymmetric exclusion process. (English summary) **2005f:60214**
— *see also* **Feng, Shui et al., 2005f:60212**
Guiol, H. About the long range exclusion process. (English summary) **2005f:60215**
Häggström, Olle *see* **Deijfen, Maria, 2005k:60299**
Hariz, Sara *see* **Collet, Jean-François et al., 2005g:82096**
Hauksson, Bergthór (*with* Yngvason, Jakob) Asymptotic exactness of magnetic Thomas-Fermi theory at nonzero temperature. (English summary) **2005f:82025**
Jüngel, Ansgar *see* **Arnold, Anton et al., 2005a:35123**
Kang, Min *see* **Grigorescu, Ilie et al., 2005f:60214**
Kolokol'tsov, V. N. Hydrodynamic limit of coagulation-fragmentation type models of k-nary interacting particles. (English summary) [Hydrodynamic limit of coagulation-fragmentation type models of k-ary interacting particles] **2005i:82058**
Kondrat'ev, Yu. G. (*with* Konstantinov, A. Yu.; Röckner, Michael) Uniqueness of diffusion generators for two types of particle systems with singular interactions. (English summary) **2005g:60163**
Konstantinov, A. Yu. *see* **Kondrat'ev, Yu. G. et al., 2005g:60163**
Kunzinger, Michael (*with* Rein, Gerhard; Steinbauer, Roland; Teschl, Gerald) On classical solutions of the relativistic Vlasov-Klein-Gordon system. (English summary) **2005j:35218**
Lederman, Claudia *see* **Arnold, Anton et al., 2005a:35123**
Liggett, Thomas M. (*with* Rolles, Silke W. W.) An infinite stochastic model of social network formation. (English summary) **2005f:60159**
Malyshev, D. V. *see* **Malyshev, P. V., 2005j:82004**
Malyshev, P. V. (*with* Malyshev, D. V.) On locally perturbed equilibrium distribution functions. (Russian. English and Ukrainian summaries) **2005j:82004**
Malyshev, V. A. Fixed points for stochastic open chemical systems. (English summary)
Markowich, Peter A. *see* **Arnold, Anton et al., 2005a:35123**
Martinelli, Fabio (*with* Sinclair, Alistair; Weitz, Dror) Glauber dynamics on trees: boundary conditions and mixing time. (English summary) **2005j:82052**
Nagahata, Yukio (*with* Uchiyama, Kôhei) An estimate of the spectral gap for zero-range-exclusion dynamics. **2005j:60184**
Olivieri, Enzo (*with* Vares, Maria Eulália) ★ Large deviations and metastability. **2005k:60007**
Pechen', A. N. Quantum stochastic equation for a test particle interacting with a dilute Bose gas. (English summary) **2005b:82057**
Poupaud, Frédéric *see* **Collet, Jean-François et al., 2005g:82096**
Priezzhev, V. B. *see* **Dorlas, Teunis C., 2005j:82055**
Quastel, Jeremy *see* **Gao, Fu Qing, 2005b:60256** *and* **Feng, Shui et al., 2005f:60212**
Radin, Charles Existence of ground state configurations. (English summary) **2005k:82004**
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Roberto, Cyril *see* **Cancrini, Nicoletta et al., 2005m:60228**
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Rolles, Silke W. W. *see* **Liggett, Thomas M., 2005f:60159**
Ruzmaikina, Anastasia (*with* Aizenman, Michael) Characterization of invariant measures at the leading edge for competing particle systems. (English summary) **2005j:60105**
Seppäläinen, Timo *see* **Grigorescu, Ilie et al., 2005f:60214**
Sinclair, Alistair *see* **Martinelli, Fabio et al., 2005j:82052**
Steinbauer, Roland *see* **Kunzinger, Michael et al., 2005j:35218**
Sued, M. Regularity properties of the diffusion coefficient for a mean zero exclusion process. (English and French summaries) **2005m:60239**
Teschl, Gerald *see* **Kunzinger, Michael et al., 2005j:35218**
Toscani, Giuseppe *see* **Arnold, Anton et al., 2005a:35123**
Tóth, Bálint *see* **Fritz, József, 2005f:82063**
Uchiyama, Kôhei Zero-range-exclusion particle systems. **2005k:60308**
— *see also* **Nagahata, Yukio, 2005j:60184**

Varadhan, Srinivasa R. S. Large deviations for the asymmetric simple exclusion process. (English summary) **2005f:60072**
Vares, Maria Eulália *see* **Olivieri, Enzo, 2005k:60007**
Vasseur, Alexis *see* **Collet, Jean-François et al., 2005g:82096**
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Schütz, Gunter M. Exactly solvable models for many-body systems far from equilibrium. **2005c:82065**
Tutschka, Christian Interacting squares in arbitrary external field. (English summary) **2005c:82066**

Items with secondary classifications in 82C23

Amico, Luigi (*with* Osterloh, Andreas) Out of equilibrium correlation functions of quantum anisotropic XY models: one-particle excitations. (English summary) **2005a:82069**
Ferrari, Patrik L. Polynuclear growth on a flat substrate and edge scaling of GOE eigenvalues. (English summary) **2005m:82135**
Imamura, Takashi (*with* Sasamoto, Tomohiro) Fluctuations of the one-dimensional polynuclear growth model with external sources. (English summary) **2005m:82137**
Nagao, Taro (*with* Sasamoto, Tomohiro) Asymmetric simple exclusion process and modified random matrix ensembles. (English summary) **2005g:82089**
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Sasamoto, Tomohiro *see* **Nagao, Taro, 2005g:82089** *and* **Imamura, Takashi, 2005m:82137**

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Alikakos, Nicholas D. (*with* Fusco, Giorgio; Karali, Georgia) Continuum limits of particles interacting via diffusion. (English summary) **2005d:82092**
ben-Avraham, Daniel (*with* Brunet, Éric) On the relation between one-species diffusion-limited coalescence and annihilation in one dimension. (English summary) **2005k:82070**
Bagaméry, F. A. *see* **Pleimling, M. et al.**
Bahraminasab, A. (*with* Tabei, S. M. A.; Masoudi, A. A.; Shahbazi, F.; Rahimi Tabar, M. Reza) Zero tension Kardar-Parisi-Zhang equation in $(d+1)$-dimensions. (English summary) **2005f:82079**
— *see also* **Tabei, S. M. A. et al., 2005j:82062**
Baidakov, V. G. (*with* Boltachev, G. Sh.; Chernykh, G. G.) Curvature corrections to surface tension. (English summary) **2005j:82060**
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Bodineau, Thierry (*with* Ioffe, Dimitri) Stability of interfaces and stochastic dynamics in the regime of partial wetting. (English summary) **2005j:82061**
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Brunet, Éric *see* **ben-Avraham, Daniel, 2005k:82070**
Büttner, Helmut (*with* Gaĭdideĭ, Yu. B.; Saxena, Avadh; Lookman, Turab; Bishop, Alan R.) Domain wall junctions as vortices: static structure. (English summary) **2005d:82093**
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Das, Dibyendu *see* **Majumdar, Satya N., 2005k:82071**
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de Gier, Jan (*with* Nienhuis, Bernard; Pearce, Paul A.; Rittenberg, Vladimir) The raise and peel model of a fluctuating interface. (English summary) **2005c:82067**
Ginelli, Francesco (*with* Hinrichsen, Haye) Mean field theory for skewed height profiles in KPZ growth processes. (English summary)
Golestanian, Ramin Moving contact lines on heterogeneous substrates. (English summary) **2005c:82068**
Greenall, M. J. *see* **Romero-Enrique, J. M. et al., 2005e:82079**
Higuchi, Yasunari (*with* Murai, Joushin; Wang, Jun) The Dobrushin-Hryniv theory for the two-dimensional lattice Widom-Rowlinson model. (English summary) **2005h:82087**
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Ioffe, Dimitri *see* **Bodineau, Thierry, 2005j:82061**
Karali, Georgia *see* **Alikakos, Nicholas D. et al., 2005d:82092**
Landolfi, G. New results on the Canham-Helfrich membrane model via the generalized Weierstrass representation. (English summary) **2005a:82079**
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Lookman, Turab *see* **Büttner, Helmut et al., 2005d:82093**
Lushnikov, A. A. Exact particle mass spectrum in a gelling system. (English summary) **2005h:82088**
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Pearce, Paul A. *see* **de Gier, Jan et al., 2005c:82067**
Pérez-Garrido, Antonio *see* **Díaz-Sánchez, A., 2005e:82078**
Pleimling, M. (*with* Bagaméry, F. A.; Turban, L.; Iglói, Ferenc) Logarithmic corrections in the two-dimensional Ising model in a random surface field. (English summary)
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Rittenberg, Vladimir *see* **de Gier, Jan et al., 2005c:82067**
Romero-Enrique, J. M. (*with* Parry, A. O.; Greenall, M. J.) Interfacial structure at a two-dimensional wedge filling transition: exact results and a renormalization group study. (English summary) **2005e:82079**
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Schreiber, Tomasz Surface order large deviations of phase interfaces for the continuum Widom-Rowlinson model in high density limit. (English summary) **2005k:82072**
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Tabei, S. M. A. (*with* Bahraminasab, A.; Masoudi, A. A.; Mousavi, S. S.; Rahimi Tabar, M. Reza) Intermittency of height fluctuations in stationary state of the Kardar-Parisi-Zhang equation with infinitesimal surface tension in $1+1$ dimensions. (English summary) **2005j:82062**
— *see also* **Bahraminasab, A. et al., 2005f:82079**
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Wang, Jun *see* **Higuchi, Yasunari et al., 2005h:82087**
Xu, Jian Jun[1] (*with* Shimizu, Junichiro) Asymptotic theory for disc-like crystal growth. II. Interfacial instability and pattern formation at early stage of growth. (English summary) **2005g:82095**
— (*with* Shimizu, Junichiro) Asymptotic theory for disc-like crystal growth. I. Basic state solutions. (English summary) **2005e:82080**

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Bedeaux, Dick *see* **Johannessen, E., 2005b:82093**
Ben Abdallah, Naoufel (*with* Tang, Shaoqiang) On hybrid quantum-classical transport models. (English summary) **2005e:82117**
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Caginalp, G. (*with* Merdan, H.) Renormalization methods and interface problems. (English summary) (*see* **2005b:65003**)
Celestini, Franck *see* **Debierre, Jean-Marc et al., 2005a:80006**
Chernukha, O. Yu. Diffusion processes in a three-dimensional stochastically inhomogeneous two-phase half-space with spherical inclusions. (Ukrainian. English, Russian and Ukrainian summaries) **2005a:82098**
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Coveney, Peter V. *see* **Delgado-Buscalioni, Rafael, 2005c:82090**
Debierre, Jean-Marc (*with* Karma, Alain; Celestini, Franck; Guérin, Rahma) Phase-field approach for faceted solidification. (English summary) **2005a:80006**
Delgado-Buscalioni, Rafael (*with* Coveney, Peter V.) Hybrid molecular-continuum fluid dynamics. (English summary) **2005c:82090**
De Masi, Anna Spin systems with long range interactions. **2005e:82032**
Dirr, Nicolas A Stefan problem with surface tension as the sharp interface limit of a nonlocal system of phase-field type. (English summary) **2005b:80006**
D'Orsogna, Maria R. (*with* Chou, Tom) Interparticle gap distributions on one-dimensional lattices. (English summary) **2005h:82016**
van Erp, Titus S. (*with* Bolhuis, Peter G.) Elaborating transition interface sampling methods. (English summary) **2005k:82097**
Ferrari, Pablo Augusto (*with* Fontes, Luiz R. G.; Niederhauser, Beat M.; Vachkovskaia, Marina) The serial harness interacting with a wall. (English summary) **2005h:60295**
Fontes, Luiz R. G. *see* **Ferrari, Pablo Augusto et al., 2005h:60295**
Friedrich, Roland M. (*with* Kalkkinen, J.) On conformal field theory and stochastic Loewner evolution. (English summary) **2005b:81173**
Fujisaka, Hirokazu *see* **Ouchi, Katsuya, 2005k:80006**
Giga, Mi-Ho (*with* Giga, Yoshikazu) A PDE approach for motion of phase-boundaries by a singular interfacial energy. **2005e:35032**
Giga, Yoshikazu *see* **Giga, Mi-Ho, 2005e:35032**
Gonos, Panos (*with* Bray, Alan J.) Persistence in systems with conserved order parameter. (English summary) **2005h:82077**
Gouin, Henri Thermocapillary fluid and adiabatic waves near its critical point. (English summary) (*see* **2005c:00016**)
Guérin, Rahma *see* **Debierre, Jean-Marc et al., 2005a:80006**
Hoppe, Ronald H. W. (*with* Litvinov, V. G.; Linz, S. J.) On solutions of certain classes of evolution equations for surface morphologies. (English summary) **2005a:35048**
Ito, Akio Large-time behavior of solutions to non-isothermal phase separation with order-disorder structures. (English summary) (*see* **2005c:35004**)
Johannessen, E. (*with* Bedeaux, Dick) The nonequilibrium van der Waals square gradient model. II. Local equilibrium of the Gibbs surface. (English summary) **2005b:82093**
Kalkkinen, J. *see* **Friedrich, Roland M., 2005b:81173**
Karma, Alain *see* **Debierre, Jean-Marc et al., 2005a:80006**
Katori, Makoto (*with* Tanemura, Hideki) Symmetry of matrix-valued stochastic processes and noncolliding diffusion particle systems. (English summary) **2005g:82099**
Katzav, Eytan (*with* Schwartz, Moshe) Kardar-Parisi-Zhang equation with temporally correlated noise: a self-consistent approach. (English summary) **2005j:82066**
Knight, F. B. (*with* Steichen, J. L.) An interference problem with application to crystal growth. (English summary) **2005h:60248**
Kohn, Robert V. (*with* Yan, Xiaodong) Coarsening rates for models of multicomponent phase separation. (English summary) **2005f:80004**
Latyshev, Anatoliĭ Vasil'evich (*with* Yushkanov, A. A.) Moment boundary conditions in rarefied gas slip-flow problems. (Russian. Russian summary) **2005b:76116**
Li, Bo[1] (*with* Liu, Jian-Guo[1]) Epitaxial growth without slope selection: energetics, coarsening, and dynamic scaling. (English summary) **2005k:35202**
Linz, S. J. *see* **Hoppe, Ronald H. W. et al., 2005a:35048**
Litvinov, V. G. *see* **Hoppe, Ronald H. W. et al., 2005a:35048**

Liu, Jian-Guo[1] *see* **Li, Bo[1], 2005k:35202**
Merdan, H. *see* **Caginalp, G., (2005b:65003)**
Nachtergaele, Bruno (*with* Spitzer, Wolfgang L.; Starr, Shannon) On the dynamics of interfaces in the ferromagnetic *XXZ* chain under weak perturbations. (English summary) **2005a:82066**
Niederhauser, Beat M. *see* **Ferrari, Pablo Augusto et al., 2005h:60295**
Niethammer, Barbara (*with* Velázquez, J. J. L.) Homogenization in coarsening systems. II. Stochastic case. (English summary) **2005i:35018**
Nishikawa, Takao Hydrodynamic limit for the Ginzburg-Landau $\nabla\varphi$ interface model with boundary conditions. (English summary) **2005b:82098**
Ouchi, Katsuya (*with* Fujisaka, Hirokazu) Domain dynamics in the anisotropic Swift-Hohenberg equation. (English summary) **2005k:80006**
Schwartz, Moshe *see* **Katzav, Eytan, 2005j:82066**
Spitzer, Wolfgang L. *see* **Nachtergaele, Bruno et al., 2005a:82066**
Starr, Shannon *see* **Nachtergaele, Bruno et al., 2005a:82066**
Steichen, J. L. *see* **Knight, F. B., 2005h:60248**
Tanemura, Hideki *see* **Katori, Makoto, 2005g:82099**
Tang, Shaoqiang *see* **Ben Abdallah, Naoufel, 2005e:82117**
Vachkovskaia, Marina *see* **Ferrari, Pablo Augusto et al., 2005h:60295**
Velázquez, J. J. L. *see* **Niethammer, Barbara, 2005i:35018**
Wu, Hao (*with* Zheng, Song Mu) Asymptotic behavior of solution to the Cahn-Hilliard equation with dynamic boundary conditions. (English summary) (*see* **2005c:35004**)
Yan, Xiaodong *see* **Kohn, Robert V., 2005f:80004**
Yushkanov, A. A. *see* **Latyshev, Anatoliĭ Vasil'evich, 2005b:76116**
Zheng, Song Mu *see* **Wu, Hao, (2005c:35004)**

82C26 Dynamic and nonequilibrium phase transitions (general)

Bolton, Colin D. *see* **Wattis, Jonathan A. D. et al., 2005a:82081**
Bonilla, Luis L. *see* **Neu, John C. et al., 2005m:82112**
Brankov, Jordan G. (*with* Bunzarova, Nadezhda) Finite-size scaling and universality for the totally asymmetric simple-exclusion process. (English summary) **2005m:82111**
Bunzarova, Nadezhda *see* **Brankov, Jordan G., 2005m:82111**
Carpio, A. *see* **Neu, John C. et al., 2005m:82112**
Collet, Jean-François (*with* Goudon, Thierry; Hariz, Sara; Poupaud, Frédéric; Vasseur, Alexis) Some recent results on the kinetic theory of phase transitions. (English summary) **2005g:82096**
Coveney, Peter V. *see* **Wattis, Jonathan A. D. et al., 2005a:82081**
Derényi, Imre (*with* Farkas, Illés; Palla, Gergely; Vicsek, Tamás) Topological phase transitions of random networks. (English summary) **2005a:82080**
Farkas, Illés *see* **Derényi, Imre et al., 2005a:82080**
aus der Fünten, Thomas *see* **Mühlenbein, Heinz, 2005g:82097**
Gilardi, Gianni (*with* Marson, Andrea) On a Penrose-Fife type system with Dirichlet boundary conditions for temperature. (English summary) **2005e:82081**
Gitterman, M. Phase transitions in moving systems. (English summary) **2005j:82063**
Goudon, Thierry *see* **Collet, Jean-François et al., 2005g:82096**
Hariz, Sara *see* **Collet, Jean-François et al., 2005g:82096**
Henkel, Malte (*with* Hinrichsen, Haye) The non-equilibrium phase transition of the pair-contact process with diffusion. (English summary)
Hinrichsen, Haye *see* **Henkel, Malte**
Marson, Andrea *see* **Gilardi, Gianni, 2005e:82081**
Maslov, V. P. Approximation probabilities, the quasi-stable market law, and phase transition from a "condensate" state. (Russian) **2005e:82082**
Mühlenbein, Heinz (*with* aus der Fünten, Thomas) An investigation of the phase transitions of a family of probabilistic automata. (English summary) **2005g:82097**
Neu, John C. (*with* Bonilla, Luis L.; Carpio, A.) Igniting homogeneous nucleation. (English summary) **2005m:82112**
Palla, Gergely *see* **Derényi, Imre et al., 2005a:82080**
Pérez, Gabriel *see* **Salazar-Neumann, Elena et al., 2005m:82113**
Poupaud, Frédéric *see* **Collet, Jean-François et al., 2005g:82096**
Salazar-Neumann, Elena (*with* Vargas, María Cristina; Pérez, Gabriel) Critical behavior of a dynamic analog to the $q = 3$ Potts model. (English summary) **2005m:82113**
Vargas, María Cristina *see* **Salazar-Neumann, Elena et al., 2005m:82113**
Vasseur, Alexis *see* **Collet, Jean-François et al., 2005g:82096**
Vicsek, Tamás *see* **Derényi, Imre et al., 2005a:82080**
Villain-Guillot, Simon Coalescence in the 1D Cahn-Hilliard model. (English summary) **2005f:82080**
Wattis, Jonathan A. D. (*with* Bolton, Colin D.; Coveney, Peter V.) The Becker-Döring equations with exponentially size-dependent rate coefficients. (English summary) **2005a:82081**

Items with secondary classifications in 82C26

Aldana-González, Maximino (*with* Coppersmith, Susan; Kadanoff, Leo P.) Boolean dynamics with random couplings. (English summary) **2005g:37028**
Alicki, Robert (*with* Fannes, Mark; Haegeman, Bart; Vanpeteghem, D.) Coherent transport and dynamical entropy for Fermionic systems. (English summary) **2005b:82053**
Alikakos, Nicholas D. (*with* Fusco, Giorgio) Ostwald ripening for dilute systems under quasistationary dynamics. (English summary) **2005e:82073**
— (*with* Fusco, Giorgio; Karali, Georgia) The effect of the geometry of the particle distribution in Ostwald ripening. (English summary) **2005e:82074**
— (*with* Fusco, Giorgio; Karali, Georgia) Ostwald ripening in two dimensions—the rigorous derivation of the equations from the Mullins-Sekerka dynamics. (English summary) **2005h:35370**
Biskup, Marek (*with* Blanchard, Philippe; Chayes, Lincoln; Gandolfo, D.; Krüger, Tyll) Phase transition and critical behavior in a model of organized criticality. (English summary) **2005c:82079**
Blanchard, Philippe *see* **Biskup, Marek et al., 2005c:82079**
Brak, Richard (*with* de Gier, Jan; Rittenberg, Vladimir) Nonequilibrium stationary states and equilibrium models with long range interactions. (English summary) **2005c:82058**
Braun, O. M. (*with* Hu, Bambi) Two-dimensional two-state lattice-gas model. (English summary) **2005k:82060**
Chayes, Lincoln *see* **Biskup, Marek et al., 2005c:82079**
Coppersmith, Susan *see* **Aldana-González, Maximino et al., 2005g:37028**
Corberi, Federico (*with* Gonnella, Giuseppe; Lamura, Antonio) Effects of anisotropy on the formation of a lamellar phase under shear. (English summary)
Fannes, Mark *see* **Alicki, Robert et al., 2005b:82053**
Feireisl, Eduard (*with* Issard-Roch, Françoise; Petzeltová, Hana) A non-smooth version of the Lojasiewicz-Simon theorem with applications to non-local phase-field systems. (English summary) **2005c:35284**
Feng, Shui (*with* Grigorescu, Ilie; Quastel, Jeremy) Diffusive scaling limits of mutually interacting particle systems. (English summary) **2005f:60212**
Frank, T. D. Stability analysis of stationary states of mean field models described by Fokker-Planck equations. (English summary) **2005e:82085**
Fukuda, Kensuke (*with* Takayasu, Hideki; Takayasu, Misako) A stochastic map model of phase transition in internet traffic. (English summary)
Fusco, Giorgio *see* **Alikakos, Nicholas D. et al., 2005e:82073; 2005e:82074** *and* **2005h:35370**
Gandolfo, D. *see* **Biskup, Marek et al., 2005c:82079**
Ghafari, F. E. *see* **Jafarpour, Farhad H. et al., 2005m:82138**
de Gier, Jan *see* **Brak, Richard et al., 2005c:82058**
Gonnella, Giuseppe *see* **Corberi, Federico et al.**
Greenall, M. J. *see* **Romero-Enrique, J. M. et al., 2005e:82079**
Grigorescu, Ilie *see* **Feng, Shui et al., 2005f:60212**
Haegeman, Bart *see* **Alicki, Robert et al., 2005b:82053**
Heilmann, Ole J. Exact solution of 1D asymmetric exclusion model with variable cluster size. (English summary) **2005k:82062**
den Hollander, Frank Metastability under stochastic dynamics. (English summary) **2005i:60197**
Hu, Bambi *see* **Braun, O. M., 2005k:82060**
Huber, Daniel (*with* Tsimring, Lev S.) Cooperative dynamics in a network of stochastic elements with delayed feedback. (English summary) **2005m:82117**
Issard-Roch, Françoise *see* **Feireisl, Eduard et al., 2005c:35284**
Jafarpour, Farhad H. (*with* Ghafari, F. E.; Masharian, S. R.) Exact shock profile for the ASEP with sublattice-parallel update. (English summary) **2005m:82138**
Kadanoff, Leo P. *see* **Aldana-González, Maximino et al., 2005g:37028**
Karali, Georgia *see* **Alikakos, Nicholas D. et al., 2005e:82074** *and* **2005h:35370**
Krüger, Tyll *see* **Biskup, Marek et al., 2005c:82079**
Kuoza, L. V. (*with* Lifshits, Mikhail A.) Aggregation in a one-dimensional gas model with stable initial data. (Russian. English and Russian summaries) **2005j:82057**
Lamura, Antonio *see* **Corberi, Federico et al.**
Lifshits, Mikhail A. *see* **Kuoza, L. V., 2005j:82057**
Louis, Pierre-Yves Ergodicity of PCA: equivalence between spatial and temporal mixing conditions. (English summary) **2005k:60158**
Masharian, S. R. *see* **Jafarpour, Farhad H. et al., 2005m:82138**
Mohanty, Pradeep Kumar First-order synchronization transition in locally coupled maps. (English summary) **2005k:37068**
Moran, Gadi Phase transition via cellular automata. (*see* **2005b:82059**)
Parry, A. O. *see* **Romero-Enrique, J. M. et al., 2005e:82079**
Petzeltová, Hana *see* **Feireisl, Eduard et al., 2005c:35284**
Quastel, Jeremy *see* **Feng, Shui et al., 2005f:60212**
Rittenberg, Vladimir *see* **Brak, Richard et al., 2005c:82058**
Romero-Enrique, J. M. (*with* Parry, A. O.; Greenall, M. J.) Interfacial structure at a two-dimensional wedge filling transition: exact results and a renormalization group study. (English summary) **2005e:82079**
Schreiber, Tomasz Surface order large deviations of phase interfaces for the continuum Widom-Rowlinson model in high density limit. (English summary) **2005k:82072**
Shimizu, Junichiro *see* **Xu, Jian Jun[1], 2005e:82080** *and* **2005g:82095**
Skripnik, V. I. Long-range order in classical lattice linear oscillator systems and Peierls argument. (English summary)
Takayasu, Hideki *see* **Fukuda, Kensuke et al.**
Takayasu, Misako *see* **Fukuda, Kensuke et al.**
Tsimring, Lev S. *see* **Huber, Daniel, 2005m:82117**
Vanpeteghem, D. *see* **Alicki, Robert et al., 2005b:82053**
Wattis, Jonathan A. D. Similarity solutions of a Becker-Döring system with time-dependent monomer input. (English summary) **2005e:82065**
Xu, Jian Jun[1] (*with* Shimizu, Junichiro) Asymptotic theory for disc-like crystal growth. II. Interfacial instability and pattern formation at early stage of growth. (English summary) **2005g:82095**
— (*with* Shimizu, Junichiro) Asymptotic theory for disc-like crystal growth. I. Basic state solutions. (English summary) **2005e:82080**
Zhang, Weixiong Phase transitions and backbones of the asymmetric traveling salesman problem. (English summary) **2005j:68064**

82C27 Dynamic critical phenomena

Akkineni, Vamsi K. (*with* Täuber, Uwe C.) Nonequilibrium critical dynamics of the relaxational models C and D. (English summary) **2005e:82083**
Fukś, Henryk Critical behaviour of number-conserving cellular automata with nonlinear fundamental diagrams. (English summary) **2005h:82089**
Täuber, Uwe C. *see* **Akkineni, Vamsi K., 2005e:82083**

Items with secondary classifications in 82C27

Albano, Ezequiel V. Comment on: "Transverse fluctuations in the driven lattice gas" [J. Phys. A **36** (2003), no. 21, L315–L320; MR1985486] by S. Caracciolo, A. Gambassi, M. Gubinelli and A. Pelissetto. (English summary)
— *see also* **Caracciolo, Sergio et al.**
Almaas, E. (*with* Krapivsky, Paul L.; Redner, Sidney) Statistics of weighted treelike networks. (English summary) **2005k:82086**
Benfatto, Giuseppe (*with* Mastropietro, Vieri) Ward identities and vanishing of the beta function for $d = 1$ interacting Fermi systems. (English summary) **2005d:82039**

Blumen, A. *see* **Jasch, F. et al.**
Brydges, David C. (*with* Imbrie, John Z.) Branched polymers and dimensional reduction. (English summary) **2005c:82051**
Caracciolo, Sergio (*with* Gambassi, Andrea; Gubinelli, Massimiliano; Pelissetto, Andrea) Reply to: "Comment on: 'Transverse fluctuations in the driven lattice gas' " [J. Phys. A **37** (2004), no. 33, 8189–8191; MR2091946] by E. V. Albano.
— *see also* **Albano, Ezequiel V.**
Enss, Tilman (*with* Henkel, Malte; Picone, Alan; Schollwöck, Ulrich) Ageing phenomena without detailed balance: the contact process. (English summary)
von Ferber, Ch. *see* **Jasch, F. et al.**
Gambassi, Andrea *see* **Albano, Ezequiel V.** *and* **Caracciolo, Sergio et al.**
Giménez, M. C. (*with* Nieto, F.; Ramirez-Pastor, A. J.) Thermal percolation for interacting monomers absorbed on square lattices. (English summary) **2005m:82143**
Gubinelli, Massimiliano *see* **Albano, Ezequiel V.** *and* **Caracciolo, Sergio et al.**
Henkel, Malte *see* **Enss, Tilman et al.**
Imbrie, John Z. *see* **Brydges, David C., 2005c:82051**
Jasch, F. (*with* von Ferber, Ch.; Blumen, A.) Dynamical scaling behavior of percolation clusters in scale-free networks. (English summary)
Krapivsky, Paul L. *see* **Almaas, E. et al., 2005k:82086**
Mastropietro, Vieri *see* **Benfatto, Giuseppe, 2005d:82039**
Nieto, F. *see* **Giménez, M. C. et al., 2005m:82143**
Pelissetto, Andrea *see* **Albano, Ezequiel V.** *and* **Caracciolo, Sergio et al.**
Picone, Alan *see* **Enss, Tilman et al.**
Rákos, A. (*with* Schütz, Gunter M.) Current distribution and random matrix ensembles for an integrable asymmetric fragmentation process. (English summary) **2005k:82087**
Ramirez-Pastor, A. J. *see* **Giménez, M. C. et al., 2005m:82143**
Redner, Sidney *see* **Almaas, E. et al., 2005k:82086**
Schollwöck, Ulrich *see* **Enss, Tilman et al.**
Schütz, Gunter M. *see* **Rákos, A., 2005k:82087**

82C28 Dynamic renormalization group methods [see also 81T17]

Kriel, J. N. (*with* Morozov, A. Yu.; Scholtz, Frederik G.) Non-perturbative flow equations from continuous unitary transformations. (English summary) **2005i:82052**
Le Doussal, Pierre *see* **Monthus, Cécile, 2005d:82094**
Monthus, Cécile (*with* Le Doussal, Pierre) Energy dynamics in the Sinai model. (English summary) **2005d:82094**
Morozov, A. Yu. *see* **Kriel, J. N. et al., 2005i:82052**
Okamura, Makoto[1] *see* **Ueno, Kazuto et al., 2005m:82114**
Sakaguchi, Hidetsugu *see* **Ueno, Kazuto et al., 2005m:82114**
Scholtz, Frederik G. *see* **Kriel, J. N. et al., 2005i:82052**
Ueno, Kazuto (*with* Sakaguchi, Hidetsugu; Okamura, Makoto[1]) Renormalization-group and numerical analysis of a noisy Kuramoto-Sivashinsky equation in 1 + 1 dimensions. (English summary) **2005m:82114**

Items with secondary classifications in 82C28

Akkineni, Vamsi K. (*with* Täuber, Uwe C.) Nonequilibrium critical dynamics of the relaxational models C and D. (English summary) **2005e:82083**
Alkhimov, V. I. Evolution in a random Gaussian field. (Russian. Russian summary) **2005g:82098**
Caginalp, G. (*with* Merdan, H.) The transition between quasi-static and fully dynamic for interfaces. (English summary) **2005m:82109**
Calabrese, Pasquale (*with* Gambassi, Andrea) Ageing properties of critical systems. (English summary) **2005m:82082**
(de Forcrand-Millard, Patricia A.) *see* **Vasil'ev, A. N., 2005j:81001**
Gambassi, Andrea *see* **Calabrese, Pasquale, 2005m:82082**
Gobert, Dominique (*with* Kollath, Corinna; Schollwöck, Ulrich; Schütz, Gunter M.) Real-time dynamics in spin-$\frac{1}{2}$ chains with adaptive time-dependent density matrix renormalization group. (English summary) **2005m:82100**
Greenall, M. J. *see* **Romero-Enrique, J. M. et al., 2005e:82079**
Janssen, Hans-Karl (*with* Täuber, Uwe C.) The field theory approach to percolation processes. (English summary) **2005k:82088**
Kollath, Corinna *see* **Gobert, Dominique et al., 2005m:82100**
McComb, W. D. ★ Renormalization methods. **2005f:82001**
Merdan, H. *see* **Caginalp, G., 2005m:82109**
Mestel, B. D. (*with* Osbaldestin, Andrew H.) Renormalization of correlations in a quasiperiodically forced two-level system: quadratic irrationals. (English summary) **2005g:37165**
Osbaldestin, Andrew H. *see* **Mestel, B. D., 2005g:37165**
Parry, A. O. *see* **Romero-Enrique, J. M. et al., 2005e:82079**
Robledo, Alberto Criticality in nonlinear one-dimensional maps: RG universal map and nonextensive entropy. (English summary) **2005e:37084**
Romero-Enrique, J. M. (*with* Parry, A. O.; Greenall, M. J.) Interfacial structure at a two-dimensional wedge filling transition: exact results and a renormalization group study. (English summary) **2005e:82079**
Schollwöck, Ulrich *see* **Gobert, Dominique et al., 2005m:82100**
Schütz, Gunter M. *see* **Gobert, Dominique et al., 2005m:82100**
Täuber, Uwe C. *see* **Akkineni, Vamsi K., 2005e:82083** *and* **Janssen, Hans-Karl, 2005k:82088**
Vasil'ev, A. N. ★ The field theoretic renormalization group in critical behavior theory and stochastic dynamics. **2005j:81001**

82C31 Stochastic methods (Fokker-Planck, Langevin, etc.) [see also 60H10]

Ahmad, P. *see* **Khan, K. M. et al.**
Alkhimov, V. I. Evolution in a random Gaussian field. (Russian. Russian summary) **2005g:82098**
Amblard, Pierre-Olivier *see* **Borgnat, Pierre et al., 2005i:82054**
Amin, Masood *see* **Khan, K. M. et al.**
Ao, P. Potential in stochastic differential equations: novel construction. (English summary) **2005f:82081**
Archer, Andrew J. (*with* Rauscher, Markus) Dynamical density functional theory for interacting Brownian particles: stochastic or deterministic? (English summary) **2005f:82082**
Bassi, Gabriele (*with* Bazzani, Armando; Mais, Helmut; Turchetti, Giorgio) Stochastic continuity equation and related processes. (English summary) **2005i:82053**
Batista, Antonio M. *see* **Vasconcelos, D. B. et al., 2005f:82091**
Bazzani, Armando *see* **Bassi, Gabriele et al., 2005i:82053**
Bena, Ioana (*with* Van den Broeck, Christian; Kawai, Ryoichi; Lindenberg, Katja) Drift by dichotomous Markov noise. (English summary) **2005a:82082**
Bok, Jiří (*with* Čápek, Vladislav) Langevin approach to the Porto system. (English summary) **2005j:82064**
Borgnat, Pierre (*with* Amblard, Pierre-Olivier; Flandrin, Patrick) Scale invariances and Lamperti transformations for stochastic processes. (English summary) **2005i:82054**
Brady, J. F. *see* **Subramanian, Ganesh, 2005c:82070**
Bray, Alan J. (*with* Gonos, Panos) Survival of a diffusing particle in a transverse shear flow: a first-passage problem with continuously varying persistence exponent. (English summary)
Budini, Adrián A. (*with* Cáceres, Manuel O.) Functional characterization of generalized Langevin equations. **2005b:82062**
Burnecki, Krzysztof *see* **Mercik, Szymon et al., 2005b:82068** *and* **Weron, Aleksander et al., 2005m:82121**
Cáceres, Manuel O. *see* **Budini, Adrián A., 2005b:82062**
Cañizo, José A. (*with* López, José Luis; Muñoz-Nieto, Juan José) Global L^1 theory and regularity for the 3D nonlinear Wigner-Poisson-Fokker-Planck system. (English summary) **2005b:82063**
Čápek, Vladislav *see* **Bok, Jiří, 2005j:82064**
Carlsson, A. E. *see* **Mahani, Alireza S. et al., 2005e:82086**
Carrillo, José-Antonio *see* **Sparber, Christof et al., 2005f:82090**
Chavanis, Pierre-Henri Generalized Fokker-Planck equations and effective thermodynamics. (English summary)
— (*with* Laurençot, Philippe; Lemou, Mohammed) Chapman-Enskog derivation of the generalized Smoluchowski equation. (English summary) **2005m:82115**
Chechkin, A. V. *see* **Greenenko, A. A. et al., 2005b:82067**
Chow, C. W. (*with* Liu, Kwok Leung) Fokker-Planck equation and subdiffusive fractional Fokker-Planck equation of bistable systems with sinks. (English summary) **2005m:82116**
Chvosta, Petr (*with* Reineker, Peter) Analysis of stochastic resonances. (English summary) **2005b:82064**
Coffey, W. T. (*with* Kalmykov, Yu. P.; Waldron, J. T.) ★ The Langevin equation. **2005b:82065**
Costa, Ismael V. L. *see* **Morgado, Rafael et al.**
Curado, Evaldo M. F. *see* **Nobre, Fernando D. et al., 2005f:82087**
Desvillettes, Laurent Plasma kinetic models: the Fokker-Planck-Landau equation. (English summary) **2005k:82073**
Dolbeault, Jean *see* **Sparber, Christof et al., 2005f:82090**
Drummond, P. D. Gauge Poisson representations for birth/death master equations. (English summary) **2005d:82095**
Eliazar, Iddo (*with* Klafter, Joseph) A growth-collapse model: Lévy inflow, geometric crashes, and generalized Ornstein-Uhlenbeck dynamics. (English summary) **2005e:82084**
— (*with* Klafter, Joseph) Stochastic Ornstein-Uhlenbeck capacitors. (English summary) **2005j:82065**
Evans, R. M. L. Driven steady states: rules for transition rates. (English summary)
Fannes, Mark (*with* Haegeman, Bart) Quantum dynamical entropies for classical stochastic systems. (English summary) **2005a:82083**
Figueiredo, J. M. A. *see* **Torres, M. S., Jr., 2005b:82069**
Flandrin, Patrick *see* **Borgnat, Pierre et al., 2005i:82054**
Frank, T. D. Complete description of a generalized Ornstein-Uhlenbeck process related to the nonextensive Gaussian entropy. (English summary)
— Stability analysis of stationary states of mean field models described by Fokker-Planck equations. (English summary) **2005e:82085**
— Dynamic mean field models: H-theorem for stochastic processes and basins of attraction of stationary processes. (English summary)
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Fujihara, Akihiro *see* **Ohtsuki, Toshiya et al., 2005d:82096**
Georgescu, Adelina *see* **Suciu, N., 2005a:82085**
Gitterman, M. Underdamped oscillator with fluctuating damping. (English summary) **2005b:82066**
Gonos, Panos *see* **Bray, Alan J.**
Goychuk, Igor (*with* Hänggi, Peter) Theory of non-Markovian stochastic resonance. (English summary) **2005f:82084**
Greenenko, A. A. (*with* Chechkin, A. V.; Shul'ga, N. F.) Anomalous diffusion and Lévy flights in channeling. (English summary) **2005b:82067**
Haegeman, Bart *see* **Fannes, Mark, 2005a:82083**
Hairer, Martin (*with* Pavliotis, G. A.) Periodic homogenization for hypoelliptic diffusions. (English summary) **2005h:82090**
Hänggi, Peter *see* **Goychuk, Igor, 2005f:82084**
Harris, R. J. (*with* Stinchcombe, R. B.) Erratum: "Disordered asymmetric simple exclusion process: mean-field treatment" [Phys. Rev. E (3) **70** (2004), no. 1, 016108, 15 pp.; MR2125705 (2005j:82073)].
Henkel, Malte *see* **Picone, Alan, 2005f:82088**
Hérau, Frédéric (*with* Nier, Francis) Isotropic hypoellipticity and trend to equilibrium for the Fokker-Planck equation with a high-degree potential. (English summary) **2005f:82085**
Herrmann, Samuel (*with* Imkeller, Peter; Pavlyukevich, Ilya) Two mathematical approaches to stochastic resonance. (English summary) **2005k:82075**
Holcman, D. (*with* Schuss, Zeev) Escape through a small opening: receptor trafficking in a

synaptic membrane. (English summary) **2005i:82055**

Huber, Daniel (*with* Tsimring, Lev S.) Cooperative dynamics in a network of stochastic elements with delayed feedback. (English summary) **2005m:82117**

Imkeller, Peter *see* **Herrmann, Samuel et al., 2005k:82075**

Iqbal, Kaleem *see* **Khan, K. M. et al.**

Kalmykov, Yu. P. *see* **Coffey, W. T. et al., 2005b:82065**

Katori, Makoto (*with* Tanemura, Hideki) Symmetry of matrix-valued stochastic processes and noncolliding diffusion particle systems. (English summary) **2005g:82099**

Katzav, Eytan (*with* Schwartz, Moshe) Kardar-Parisi-Zhang equation with temporally correlated noise: a self-consistent approach. (English summary) **2005j:82066**

Kawai, Ryoichi *see* **Bena, Ioana et al., 2005a:82082**

Kearney, Michael J. (*with* Majumdar, Satya N.) On the area under a continuous time Brownian motion till its first-passage time. (English summary) **2005m:82118**

Kechedzhy, K. E. *see* **Usatenko, O. V. et al., 2005a:82086**

Khan, K. M. (*with* Ahmad, P.; Iqbal, Kaleem; Amin, Masood) Eley-Rideal model for a monomer-trimer catalytic reaction of the type $A + B_3 \to AB$: a Monte Carlo simulation study. (English summary)

Khan, Sharon (*with* Reynolds, A. M.) Derivation of a Fokker-Planck equation for generalized Langevin dynamics. (English summary)

Kim, Changho *see* **Lee, Hye Jin et al.**

Kim, Jae Gil *see* **Lee, Hye Jin et al.**

Kim, Jangil (*with* Lee, M. Howard) Dynamics of the independent-oscillator (IO) model in the Einstein and pseudo-Debye limits. (English summary) **2005a:82084**

Klafter, Joseph *see* **Eliazar, Iddo, 2005e:82084** *and* **2005j:82065**

Kurchan, Jorge *see* **Tănase-Nicola, Sorin, 2005g:82102**

Laurençot, Philippe (*with* Wrzosek, Dariusz) Time asymptotics for a Becker-Döring-type model of aggregation with collisional fragmentation. (English summary) **2005f:82086**

— *see also* **Chavanis, Pierre-Henri et al., 2005m:82115**

Lee, Eok Kyun *see* **Lee, Hye Jin et al.**

Lee, Hye Jin (*with* Kim, Changho; Kim, Jae Gil; Lee, Eok Kyun) A general scheme for studying the stochastic dynamics of a parametric oscillator driven by coloured noise. (English summary)

Lee, M. Howard *see* **Kim, Jangil, 2005a:82084**

Lemou, Mohammed *see* **Chavanis, Pierre-Henri et al., 2005m:82115**

Li, Jianlong *see* **Xu, Bohou et al., 2005e:82088**

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Lindenberg, Katja *see* **Bena, Ioana et al., 2005a:82082**

Liu, Kwok Leung *see* **Chow, C. W., 2005m:82116**

Lo, C. F. Exact solutions of nonlinear Fokker-Planck equations of the Desai-Zwanzig type. (English summary) **2005h:82091**

Lopes, S. R. *see* **Vasconcelos, D. B. et al., 2005f:82091**

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Łuczka, Jerzy Non-Markovian stochastic processes: colored noise. (English summary)

— *see also* **Talkner, Peter, 2005d:82098**

Mahani, Alireza S. (*with* Carlsson, A. E.; Wessel, R.) Mixing two sets of noisy measurements changes the N-dependence of resolution to a fourth-root power law. (English summary) **2005e:82086**

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Mel′nyk, S. S. *see* **Usatenko, O. V. et al., 2005a:82086**

Mercik, Szymon (*with* Weron, Karina; Burnecki, Krzysztof; Weron, Aleksander) Enigma of self-similarity of fractional Lévy stable motions. (English summary) **2005b:82068**

— *see also* **Weron, Aleksander et al., 2005m:82121**

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Miyazaki, Kunimasa (*with* Reichman, David R.) Mode-coupling theory and the fluctuation-dissipation theorem for nonlinear Langevin equations with multiplicative noise. (English summary) **2005m:82119**

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Morgado, Rafael (*with* Costa, Ismael V. L.; de Oliveira, Fernando Albuquerque) Normal and anomalous diffusion: ergodicity and fluctuation-dissipation theorem. (English summary)

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Nobre, Fernando D. (*with* Curado, Evaldo M. F.; Rowlands, George) A procedure for obtaining general nonlinear Fokker-Planck equations. (English summary) **2005f:82087**

Norris, James R. Brownian coagulation. (English summary) **2005k:82076**

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Ohtsuki, Toshiya (*with* Fujihara, Akihiro; Yamamoto, Hiroshi[4]) Effects of randomness on power law tails in multiplicatively interacting stochastic processes. (English summary) **2005d:82096**

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Peña, J. J. *see* **Rubio-Ponce, A. et al., 2005m:82120**

Pereira, Emmanuel On the relaxation properties of stochastic Ginzburg-Landau type models. (English summary) **2005c:82069**

Picone, Alan (*with* Henkel, Malte) Local scale-invariance and ageing in noisy systems. (English summary) **2005f:82088**

Pomeau, Yves Time in science: reversibility vs. irreversibility. (English summary) (*see* **2005c:37001**)

Prähofer, Michael (*with* Spohn, Herbert) Exact scaling functions for one-dimensional stationary KPZ growth. (English summary) **2005d:82097**

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Rowlands, George *see* **Nobre, Fernando D. et al., 2005f:82087**

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Schuss, Zeev *see* **Holcman, D., 2005i:82055**

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Shul′ga, N. F. *see* **Greenenko, A. A. et al., 2005b:82067**

Shushin, A. I. (*with* Sakun, V. P.) Non-Markovian stochastic Liouville equation. (English summary) **2005f:82089**

Sokolov, Igor M. (*with* Metzler, Ralf) Non-uniqueness of the first passage time density of Lévy random processes. (English summary) **2005g:82101**

Sparber, Christof (*with* Carrillo, José-Antonio; Dolbeault, Jean; Markowich, Peter A.) On the long-time behavior of the quantum Fokker-Planck equation. (English summary) **2005f:82090**

de S. Pinto, S. E. *see* **Vasconcelos, D. B. et al., 2005f:82091**

Spohn, Herbert *see* **Prähofer, Michael, 2005d:82097**

Stinchcombe, R. B. *see* **Harris, R. J.**

Subramanian, Ganesh (*with* Brady, J. F.) A Chapman-Enskog formalism for inertial suspensions. (English summary) **2005c:82070**

Suciu, N. (*with* Georgescu, Adelina) On the Misra-Prigogine-Courbage theory of irreversibility. (English summary) **2005a:82085**

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Talkner, Peter (*with* Łuczka, Jerzy) Rate description of Fokker-Planck processes with time-dependent parameters. (English summary) **2005d:82098**

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Tanemura, Hideki *see* **Katori, Makoto, 2005g:82099**

Torres, M. S., Jr. (*with* Figueiredo, J. M. A.) Probability amplitude structure of Fokker-Plank equation. (English summary) [Probability amplitude structure of Fokker-Planck equation] **2005b:82069**

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Turchetti, Giorgio *see* **Bassi, Gabriele et al., 2005i:82053**

Usatenko, O. V. (*with* Yampol′skii, V. A.; Kechedzhy, K. E.; Mel′nyk, S. S.) Symbolic stochastic dynamical systems viewed as binary N-step Markov chains. (English summary) **2005a:82086**

Van den Broeck, Christian *see* **Bena, Ioana et al., 2005a:82082**

Vasconcelos, D. B. (*with* Viana, Ricardo L.; Lopes, S. R.; Batista, Antonio M.; de S. Pinto, S. E.) Spatial correlations and synchronization in coupled map lattices with long-range interactions. (English summary) **2005f:82091**

Velarde, Manuel G. *see* **Vlad, Marcel O. et al., 2005b:82070**

Viana, Ricardo L. *see* **Vasconcelos, D. B. et al., 2005f:82091**

Vlad, Marcel O. (*with* Velarde, Manuel G.; Ross, John[1]) Analogies between colored Lévy noise and random channel approach to disordered kinetics. (English summary) **2005b:82070**

Waldron, J. T. *see* **Coffey, W. T. et al., 2005b:82065**

Weron, Aleksander (*with* Burnecki, Krzysztof; Mercik, Szymon; Weron, Karina) Complete description of all self-similar models driven by Lévy stable noise. (English summary) **2005m:82121**

— *see also* **Mercik, Szymon et al., 2005b:82068**

Weron, Karina *see* **Mercik, Szymon et al., 2005b:82068** *and* **Weron, Aleksander et al., 2005m:82121**

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Widom, Harold On asymptotics for the Airy process. (English summary) **2005b:82071**

Wrzosek, Dariusz *see* **Laurençot, Philippe, 2005f:82086**

Xu, Bohou (*with* Li, Jianlong; Zheng, Jinyang) Parameter-induced aperiodic stochastic resonance in the presence of multiplicative noise and additive noise. (English summary) **2005e:82088**

Xu, Yun[3] *see* **Ren, Fu-Yao et al., 2005e:82087**

Yaguma, Shinnosuke (*with* Odagiri, Kenta; Takatsuka, Kazuo) Coupled-cellular-automata study on stochastic and pattern-formation dynamics under spatiotemporal fluctuation of temperature. (English summary) **2005e:82089**

Yamamoto, Hiroshi[4] *see* **Ohtsuki, Toshiya et al., 2005d:82096**

Yampol′skii, V. A. *see* **Usatenko, O. V. et al., 2005a:82086**

Yau, Stephen S. T. Computation of Fokker-Planck equation. (English summary) **2005m:82122**

Zhang, Xue-Juan Limit cycles and stochastic resonance in a periodically driven Langevin equation subject to white noise. (English summary) **2005c:82071**

Zheng, Jinyang *see* **Xu, Bohou et al., 2005e:82088**

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Abbott, Derek *see* **Amengual, P. et al., 2005e:91041**

Ackland, G. J. Maximization principles and daisyworld. (English summary)

Agueh, M. (*with* Ghoussoub, Nassif; Kang, Xiaosong) Geometric inequalities via a general comparison principle for interacting gases. (English summary) **2005c:82050**

Al′beverio, S. (*with* Kondrat′ev, Yu. G.; Röckner, Michael) Symmetrizing measures for infinite dimensional diffusions: an analytic approach. (English summary) **2005f:60167**

Allison, Andrew Gordon *see* **Amengual, P. et al., 2005e:91041**

Amengual, P. (*with* Allison, Andrew Gordon; Toral, R.; Abbott, Derek) Discrete-time ratchets, the Fokker-Planck equation and Parrondo's paradox. (English summary) **2005e:91041**

Arévalo, Edward (*with* Gaĭdideĭ, Yu. B.; Mertens, Franz G.) Soliton diffusion on chains of coupled nonlinear oscillators. (English summary) **2005h:37198**

Arimitsu, Toshihico Quantum stochastic differential equations in view of non-equilibrium thermo field dynamics. (English summary) **2005a:81111**

Aubin, Jean-Pierre (*with* Lesne, Annick) Constructing and exploring wells of energy landscapes. (English summary) **2005k:34034**

Balázs, Márton Growth fluctuations in a class of deposition models. (English and French summaries) **2005j:60178a**
— Correction to: "Growth fluctuations in a class of deposition models" [Ann. Inst. H. Poincaré Probab. Statist. **39** (2003), no. 4, 639–685; MR1983174 (2005j:60178a)]. **2005j:60178b**
Baule, A. (*with* Friedrich, Rudolf) Joint probability distributions for a class of non-Markovian processes. (English summary) **2005k:62028**
Beffara, Vincent Hausdorff dimensions for SLE_6. (English summary) **2005k:60295**
Berestycki, Julien Multifractal spectra of fragmentation processes. (English summary) **2005a:60154**
Bernard, Claude W. (*with* Savage, Van M.) $\mathcal{PT}$-symmetric quantum field theories and the Langevin equation. (English summary) **2005f:81079**
Bray, Alan J. (*with* Winkler, Karen) Vicious walkers in a potential. (English summary) **2005d:82041**
Carlen, E. A. (*with* Gangbo, Wilfrid) Solution of a model Boltzmann equation via steepest descent in the 2-Wasserstein metric. (English summary) **2005b:82075**
— (*with* Carvalho, M. C.; Gabetta, E.) On the relation between rates of relaxation and convergence of Wild sums for solutions of the Kac equation. (English summary) **2005j:82068**
Carreras, Benjamin A. *see* **Sánchez Fernández, Luis Raúl et al., 2005m:82142**
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Chalker, J. T. *see* **Hogan, P. M., 2005g:82084**
Chaves, Marta (*with* Gawędzki, Krzysztof; Horvai, Péter; Kupiainen, Antti; Vergassola, Massimo) Lagrangian dispersion in Gaussian self-similar velocity ensembles. (English summary) **2005d:76032**
Christensen, Michael How to simulate anisotropic diffusion processes on curved surfaces. (English summary) **2005f:82118**
Ciccotti, Giovanni (*with* Kalibaeva, Galina) Deterministic and stochastic algorithms for mechanical systems under constraints. (English summary) **2005c:70015**
Cirillo, Emilio N. M. (*with* Nardi, Francesca R.) Metastability for a stochastic dynamics with a parallel heat bath updating rule. (English summary) **2005a:82070**
Coolen, A. C. C. ★ The mathematical theory of minority games. **2005k:91001**
— Generating functional analysis of minority games with real market histories. (English summary) **2005k:91122**
— *see also* **Hatchett, J. P. L., 2005c:82072**
Crouseilles, Nicolas (*with* Filbet, Francis) Numerical approximation of collisional plasmas by high order methods. (English summary) **2005f:82127**
Cutland, Nigel J. Stochastic Navier-Stokes equations: Loeb space techniques & attractors. (English summary) **2005i:60116**
Davies, Ian M. (*with* Truman, Aubrey; Zhao, Huai Zhong) Stochastic heat and Burgers equations and their singularities. II. Analytical properties and limiting distributions. (English summary) **2005m:60132**
Dean, David S. (*with* Drummond, I. T.; Horgan, R. R.; Lefèvre, A.) Perturbation theory for the effective diffusion constant in a medium of random scatterers. (English summary) **2005f:82113**
Denk, Georg (*with* Meintrup, David; Schäffler, Stefan) Transient noise simulation: modeling and simulation of $1/f$-noise. (English summary) **2005a:60103**
Dereudre, D. (*with* Rœlly, S.) On Gibbsianness of infinite-dimensional diffusions. (English summary) **2005f:60168**
Desvillettes, Laurent (*with* Villani, Cédric) Rate of convergence toward the equilibrium in degenerate settings. (English summary) (*see* **2005c:00016**)
Dodd, P. J. Disentanglement by dissipative open system dynamics. (English summary) **2005f:81025**
Doering, Charles R. (*with* Sargsyan, Khachik V.; Sander, Leonard M.) Extinction times for birth-death processes: exact results, continuum asymptotics, and the failure of the Fokker-Planck approximation. (English summary) **2005j:92021**
Drummond, I. T. *see* **Dean, David S. et al., 2005f:82113**
E, Wei-nan (*with* Ren, Weiqing; Vanden-Eijnden, Eric) Minimum action method for the study of rare events. (English summary) **2005f:60067**
Elgart, Vlad (*with* Kamenev, Alex) Rare event statistics in reaction-diffusion systems. (English summary) **2005j:35118**
Eliazar, Iddo (*with* Klafter, Joseph) Spatial gliding, temporal trapping, and anomalous transport. (English summary) **2005k:82094**
Escobedo, Miguel (*with* Laurençot, Philippe; Mischler, Stéphane) Fast reaction limit of the discrete diffusive coagulation-fragmentation equation. (English summary) **2005h:82103**
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Filliger, Roger (*with* Hongler, M.-O.) Syphon dynamics—a soluble model of multi-agents cooperative behavior. (English summary)
(de Forcrand-Millard, Patricia A.) *see* **Vasil'ev, A. N., 2005j:81001**
Frank, T. D. Asymptotic properties of nonlinear diffusion, nonlinear drift-diffusion, and nonlinear reaction-diffusion equations. (English summary) **2005b:35129**
Friedrich, Rudolf *see* **Baule, A., 2005k:62028**
Fritz, József Entropy pairs and compensated compactness for weakly asymmetric systems. (English summary) **2005f:60213**
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García-Palacios, J. L. (*with* Zueco, D.) The Caldeira-Leggett quantum master equation in Wigner phase space: continued-fraction solution and application to Brownian motion in periodic potentials. (English summary) **2005k:81150**
Gardiner, C. W. (*with* Zoller, P.) ★ Quantum noise. **2005g:81366**
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Georgiev, Ivan T. *see* **Mobilia, Mauro, 2005k:91100**
Ghoshal, G. (*with* Sander, Leonard M.; Sokolov, Igor M.) SIS epidemics with household structure: the self-consistent field method. (English summary) **2005b:92054**
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Givon, Dror (*with* Kupferman, Raz) White noise limits for discrete dynamical systems driven by fast deterministic dynamics. (English summary) **2005g:60108**
Grigoriu, Mircea (*with* Samorodnitsky, Gennady) Stability of the trivial solution for linear stochastic differential equations with Poisson white noise. (English summary) **2005g:60093**
Gruzberg, Ilya A. (*with* Kadanoff, Leo P.) The Loewner equation: maps and shapes. (English summary) **2005f:81210**
Haas, Bénédicte Regularity of formation of dust in self-similar fragmentations. (English and French summaries) **2005d:60117**
Hadeler, Karl P. (*with* Hillen, Thomas; Lutscher, Frithjof) The Langevin or Kramers approach to biological modeling. (English summary) **2005j:92007**
Hasegawa, Hideo Augmented moment method for stochastic ensembles with delayed couplings. I. Langevin model. (English summary) **2005k:92010**
— Augmented moment method for stochastic ensembles with delayed couplings. II. FitzHugh-Nagumo model. (English summary) **2005k:92011**
Hatchett, J. P. L. (*with* Coolen, A. C. C.) Asymmetrically extremely dilute neural networks with Langevin dynamics and unconventional results. (English summary) **2005c:82072**
Henkel, Malte (*with* Hinrichsen, Haye) The non-equilibrium phase transition of the pair-contact process with diffusion. (English summary)
Hillen, Thomas *see* **Hadeler, Karl P. et al., 2005j:92007**
Hinrichsen, Haye *see* **Henkel, Malte**
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Jarzynski, Christopher Lag inequality for birth-death processes with time-dependent rates. (English summary)
Jordan, Andrew N. (*with* Sukhorukov, Eugene V.; Pilgram, Sebastian) Fluctuation statistics in networks: a stochastic path integral approach. (English summary) **2005k:82091**
Jumarie, Guy Fractional Brownian motions via random walk in the complex plane and via fractional derivative. Comparison and further results on their Fokker-Planck equations. (English summary) **2005f:60174**
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Kondrat'ev, Yu. G. *see* **Al'beverio, S. et al., 2005f:60167**
Kosztołowicz, Tadeusz From the solutions of diffusion equation to the solutions of subdiffusive one. (English summary)
Kramer, Peter R. (*with* Majda, Andrew J.) Stochastic mode reduction for the immersed boundary method. (English summary) **2005c:60085**
— (*with* Majda, Andrew J.) Stochastic mode reduction for particle-based simulation methods for complex microfluid systems. (English summary) **2005c:60086**
Kuksin, Sergei B. The Eulerian limit for 2D statistical hydrodynamics. (English summary) **2005e:76030**
Kupferman, Raz (*with* Pavliotis, G. A.; Stuart, Andrew M.) Itô versus Stratonovich white-noise limits for systems with inertia and colored multiplicative noise. (English summary) **2005k:60220**
— *see also* **Givon, Dror, 2005g:60108**
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Laurençot, Philippe *see* **Escobedo, Miguel et al., 2005h:82103**
Lavrent'ev, M. M., Jr. (*with* Spigler, Renato) Time-independent estimates and a comparison theorem for a nonlinear integroparabolic equation of the Fokker-Planck type. (English summary) **2005h:45013**
Lawler, Gregory F. An introduction to the stochastic Loewner evolution. (English summary) **2005f:60217**
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Lemou, Mohammed On multipole approximations of the Fokker-Planck-Landau operator. (English summary) **2005f:82122**
Lesne, Annick *see* **Aubin, Jean-Pierre, 2005k:34034**
Lu, Zhiming[1] (*with* Zhang, Dongxiao) A comparative study on uncertainty quantification for flow in randomly heterogeneous media using Monte Carlo simulations and conventional and KL-based moment-equation approaches. (English summary) **2005i:76105**
Lutscher, Frithjof *see* **Hadeler, Karl P. et al., 2005j:92007**
Magan, Rahul V. (*with* Sureshkumar, Radhakrishna) A multiscale-linking algorithm for the simulation of irreversible deposition. (English summary) **2005h:82104**
Majda, Andrew J. *see* **Kramer, Peter R., 2005c:60085** *and* **2005c:60086**
Maury, Bertrand Direct simulation of aggregation phenomena. (English summary) **2005h:76080**
Meintrup, David *see* **Denk, Georg et al., 2005a:60103**
Mertens, Franz G. *see* **Arévalo, Edward et al., 2005h:37198**
van Milligen, B. Ph. *see* **Sánchez Fernández, Luis Raúl et al., 2005m:82142**
Miri, M. F. (*with* Stark, Holger) Modelling light transport in dry foams by a coarse-grained persistent random walk. (English summary) **2005m:82140**
Mischler, Stéphane *see* **Escobedo, Miguel et al., 2005h:82103**
Mobilia, Mauro (*with* Georgiev, Ivan T.) Voting and catalytic processes with inhomogeneities. (English summary) **2005k:91100**
Molchan, G. (*with* Khokhlov, Andreĭ Vladimirovich) Small values of the maximum for the integral of fractional Brownian motion. (English summary) **2005a:60054**
Morato, Laura M. (*with* Siri, Paola) Stochastic learning of fractal images. (English summary) **2005f:94012**

Nakamura, Toru Double strata of time for construction of path-space measure for stochastic differential equations. (English summary) **2005b:60149**
Nakazawa, Naohito $\mathcal{N} = 1$ supersymmetric Yang-Mills theory in Itō calculus. (English summary) **2005e:81236**
Nardi, Francesca R. *see* **Cirillo, Emilio N. M., 2005a:82070**
Newman, Charles M. (*with* Ravishankar, K.; Sun, Rongfeng) Convergence of coalescing nonsimple random walks to the Brownian web. (English summary) **2005k:60306**
Okamura, Makoto[1] *see* **Ueno, Kazuto et al., 2005m:82114**
Pavliotis, G. A. *see* **Kupferman, Raz et al., 2005k:60220**
Pechen′, A. N. Quantum stochastic equation for a test particle interacting with a dilute Bose gas. (English summary) **2005b:82057**
Pilgram, Sebastian *see* **Jordan, Andrew N. et al., 2005k:82091**
Poloskov, Igor E. CAS Mathematica in random studies. (English summary) **2005f:82124**
Rasmussen, Jørgen Note on stochastic Löwner evolutions and logarithmic conformal field theory. (English summary) **2005k:81285**
Ravishankar, K. *see* **Newman, Charles M. et al., 2005k:60306**
Ren, Weiqing *see* **E, Wei-nan et al., 2005f:60067**
Richmond, Peter (*with* Sabatelli, Lorenzo) Langevin processes, agent models and socio-economic systems. (English summary) **2005f:91076**
Ritt, Jason Evaluation of entrainment of a nonlinear neural oscillator to white noise. (English summary) **2005j:92012**
Röckner, Michael *see* **Al′beverio, S. et al., 2005f:60167**
Rœlly, S. *see* **Dereudre, D., 2005f:60168**
Roshani, Farinaz (*with* Khorrami, Mohammad) Exclusion processes and boundary conditions. (English summary) **2005b:82060**
Rothman, Daniel H. *see* **Weitz, Joshua S., 2005k:92003**
Sabatelli, Lorenzo *see* **Richmond, Peter, 2005f:91076**
Sakaguchi, Hidetsugu *see* **Ueno, Kazuto et al., 2005m:82114**
Samorodnitsky, Gennady *see* **Grigoriu, Mircea, 2005g:60093**
Sánchez Fernández, Luis Raúl (*with* Carreras, Benjamin A.; van Milligen, B. Ph.) Fluid limit of nonintegrable continuous-time random walks in terms of fractional differential equations. (English summary) **2005m:82142**
Sander, Leonard M. *see* **Ghoshal, G. et al., 2005b:92054** *and* **Doering, Charles R. et al., 2005j:92021**
Sanders, David P. Fine structure of distributions and central limit theorem in diffusive billiards. (English summary) **2005m:82086**
Sargsyan, Khachik V. *see* **Doering, Charles R. et al., 2005j:92021**
Savage, Van M. *see* **Bernard, Claude W., 2005f:81079**
Schäffler, Stefan *see* **Denk, Georg et al., 2005a:60103**
Siri, Paola *see* **Morato, Laura M., 2005f:94012**
Small, Michael (*with* Tse, Chi K.) Optimal embedding parameters: a modelling paradigm. (English summary) **2005b:37199**
Sokolov, Igor M. *see* **Ghoshal, G. et al., 2005b:92054**
Spigler, Renato *see* **Lavrent′ev, M. M., Jr., 2005h:45013**
Stanislavskiĭ, A. A. A probabilistic interpretation of a fractional-order integral. (Russian. Russian summary) **2005f:28023**
Stark, Holger *see* **Miri, M. F., 2005m:82140**
Stuart, Andrew M. *see* **Kupferman, Raz et al., 2005k:60220**
Sukhanov, A. D. The generalized "coordinate-momentum" uncertainty relation in quantum mechanics and the theory of Brownian motion. (Russian. Russian summary) **2005f:81013**
Sukhorukov, Eugene V. *see* **Jordan, Andrew N. et al., 2005k:82091**
Sun, Rongfeng *see* **Newman, Charles M. et al., 2005k:60306**
Sureshkumar, Radhakrishna *see* **Magan, Rahul V., 2005h:82104**
Takahashi, Hisanao Ehrenfest model with large jumps in finance. (English summary) **2005h:91122**
Toral, R. *see* **Amengual, P. et al., 2005e:91041**
Truman, Aubrey *see* **Davies, Ian M. et al., 2005m:60132**
Tse, Chi K. *see* **Small, Michael, 2005b:37199**
Ueno, Kazuto (*with* Sakaguchi, Hidetsugu; Okamura, Makoto[1]) Renormalization-group and numerical analysis of a noisy Kuramoto-Sivashinsky equation in 1 + 1 dimensions. (English summary) **2005m:82114**
Vacchini, Bassano Dissipative systems and objective description: quantum Brownian motion as an example. (English summary) **2005g:82082**
Vanden-Eijnden, Eric *see* **E, Wei-nan et al., 2005f:60067**
Varadhan, Srinivasa R. S. Large deviations for the asymmetric simple exclusion process. (English summary) **2005f:60072**
Vasil′ev, A. N. ★ The field theoretic renormalization group in critical behavior theory and stochastic dynamics. **2005j:81001**
Venkiteswaran, G. (*with* Junk, Michael) A QMC approach for high dimensional Fokker-Planck equations modelling polymeric liquids. (English summary) **2005h:82105**
Vergassola, Massimo *see* **Chaves, Marta et al., 2005d:76032**
Villani, Cédric *see* **Desvillettes, Laurent, (2005c:00016)**
Weitz, Joshua S. (*with* Rothman, Daniel H.) Dynamics of a contact process with ontogeny. (English summary) **2005k:92003**
Winkler, Karen *see* **Bray, Alan J., 2005d:82041**
Yang, Desheng The asymptotic behavior of the stochastic Ginzburg-Landau equation with multiplicative noise. (English summary) **2005h:37117**
Yarotskiĭ, D. A. Scattering of quasi-particle excitations in weakly coupled stochastic lattice spin systems. (English summary) **2005i:82035**
Yin, Xun Wu (*with* Zhang, Xian Wen) The spatially homogeneous Fokker-Planck-Boltzmann equation. (Chinese. English and Chinese summaries)
Zhang, Dongxiao *see* **Lu, Zhiming[1], 2005i:76105**
Zhang, Xian Wen *see* **Yin, Xun Wu**
Zhao, Huai Zhong *see* **Davies, Ian M. et al., 2005m:60132**
Zoller, P. *see* **Gardiner, C. W., 2005g:81366**
Zueco, D. *see* **García-Palacios, J. L., 2005k:81150**
Zwanzig, Robert ★ Nonequilibrium statistical mechanics. **2005d:82001**

82C32 Neural nets [see also 68T05, 91E40, 92B20]

Biey, Mario *see* **Gilli, Marco et al., 2005f:82092**
Bollé, D. (*with* Busquets Blanco, J.; Verbeiren, T.) The signal-to-noise analysis of the Little-Hopfield model revisited. (English summary) **2005d:82099**
Bottaccio, M. *see* **De Lucia, M. et al., 2005m:82123**
Busquets Blanco, J. *see* **Bollé, D. et al., 2005d:82099**
Cao, Fei Long *see* **Xu, Zong Ben, 2005h:82092**
Cao, Jin De An estimation of the domain of attraction and convergence rate for Hopfield continuous feedback neural networks. (English summary) **2005b:82072**
— *see also* **Huang, He et al., 2005i:82056**
Checco, Paolo *see* **Gilli, Marco et al., 2005f:82092** *and* **2005g:82105**
Chen, Guanrong *see* **Liao, Xiaofeng et al.**
Chen, Wan Yi Global asymptotic stability for a class of Hopfield neural networks with delays. (Chinese. English and Chinese summaries)
Chen, Wu Hua (*with* Guan, Zhi Hong; Lu, Xiao Mei) Delay-dependent exponential stability of neural networks with variable delays. (English summary) **2005g:82103**
Coolen, A. C. C. *see* **Hatchett, J. P. L., 2005c:82072**; **Pérez Castillo, I. et al., 2005e:82091** *and* **Wemmenhove, B. et al., 2005f:82093**
Corinto, Fernando *see* **Gilli, Marco et al., 2005g:82105**
De Lucia, M. (*with* Bottaccio, M.; Montuori, M.; Pietronero, L.) Topological approach to neural complexity. (English summary) **2005m:82123**
Denizhan, Y. *see* **Iplikci, S., 2005c:82073**
Ding, Mingzhou *see* **Feng, Jian Feng[1], 2005g:82104**
Ditlevsen, Susanne (*with* Lansky, Petr) Estimation of the input parameters in the Ornstein-Uhlenbeck neuronal model. (English summary) **2005m:82124**
Dogaru, Radu ★ Universality and emergent computation in cellular neural networks. **2005e:82090**
Feng, Jian Feng[1] (*with* Ding, Mingzhou) Decoding spikes in a spiking neuronal network. (English summary) **2005g:82104**
Gilli, Marco (*with* Biey, Mario; Checco, Paolo) Equilibrium analysis of cellular neural networks. (English summary) **2005f:82092**
— (*with* Corinto, Fernando; Checco, Paolo) Periodic oscillations and bifurcations in cellular nonlinear networks. (English summary) **2005g:82105**
Guan, Zhi Hong *see* **Chen, Wu Hua et al., 2005g:82103**
Guo, Shangjiang (*with* Huang, Li Hong[1]; Wang, Lin[3]) Exponential stability of discrete-time Hopfield neural networks. (English summary) **2005k:82077**
Hatchett, J. P. L. (*with* Coolen, A. C. C.) Asymmetrically extremely dilute neural networks with Langevin dynamics and unconventional results. (English summary) **2005c:82072**
— *see also* **Pérez Castillo, I. et al., 2005e:82091**
Huang, He (*with* Cao, Jin De; Qu, Yuzhong) Global robust stability of delayed neural networks with a class of general activation functions. (English summary) **2005i:82056**
Huang, Li Hong[1] *see* **Guo, Shangjiang et al., 2005k:82077**
Iplikci, S. (*with* Denizhan, Y.) Improvement of neural network based targeting via clustering in higher-dimensional chaotic systems. (English summary) **2005c:82073**
Kawamura, Masaki *see* **Mimura, Kazushi et al., 2005c:82074**
Lansky, Petr *see* **Ditlevsen, Susanne, 2005m:82124**
Liao, Xiao Xin (*with* Mao, Xuerong; Wang, Jun[3]; Zeng, Zhi Gang) Algebraic conditions of stability for Hopfield neural network. (English summary) **2005d:82100**
Liao, Xiaofeng (*with* Chen, Guanrong; Sanchez, Edgar N.) Corrections to: "LMI-based approach for asymptotically stability analysis of delayed neural networks" [IEEE Trans. Circuits Systems I Fund. Theory Appl. **49** (2002), no. 7, 1033–1039; MR1916631 (2004h:82087)].
Liu, Xiang Dong *see* **Xiu, Chunbo et al., 2005e:82092**
Löwe, Matthias (*with* Vermet, Franck) The storage capacity of the Blume-Emery-Griffiths neural network. (English summary) **2005k:82078**
Lu, Xiao Mei *see* **Chen, Wu Hua et al., 2005g:82103**
Mao, Xuerong *see* **Liao, Xiao Xin et al., 2005d:82100**
Mimura, Kazushi (*with* Kawamura, Masaki; Okada, Masato) The path-integral analysis of an associative memory model storing an infinite number of finite limit cycles. (English summary) **2005c:82074**
Montuori, M. *see* **De Lucia, M. et al., 2005m:82123**
Nikoletopoulos, T. *see* **Pérez Castillo, I. et al., 2005e:82091**
Okada, Masato *see* **Mimura, Kazushi et al., 2005c:82074**
Pearson, Justin Clifford networks. (*see* **2005b:00018**)
Pérez Castillo, I. (*with* Wemmenhove, B.; Hatchett, J. P. L.; Coolen, A. C. C.; Skantzos, N. S.; Nikoletopoulos, T.) Analytic solution of attractor neural networks on scale-free graphs. (English summary) **2005e:82091**
— (*with* Skantzos, N. S.) The Little-Hopfield model on a sparse random graph. (English summary) **2005d:82101**
Pietronero, L. *see* **De Lucia, M. et al., 2005m:82123**
Qu, Yuzhong *see* **Huang, He et al., 2005i:82056**
Rundo, Francesco A cellular neural network applied to the equations of mathematical physics. (English summary) (*see* **2005c:00016**)
Sanchez, Edgar N. *see* **Liao, Xiaofeng et al.**
Skantzos, N. S. *see* **Pérez Castillo, I. et al., 2005d:82101**; **2005e:82091**; **Wemmenhove, B. et al., 2005f:82093** *and* **2005m:82125**
Tang, Yunyu *see* **Xiu, Chunbo et al., 2005e:82092**
Verbeiren, T. *see* **Bollé, D. et al., 2005d:82099**
Vermet, Franck *see* **Löwe, Matthias, 2005k:82078**
Wang, Jun[3] *see* **Liao, Xiao Xin et al., 2005d:82100**
Wang, Lin[3] *see* **Guo, Shangjiang et al., 2005k:82077**
Wei, Xiaopeng *see* **Zhang, Qiang[5] et al.**
Wemmenhove, B. (*with* Skantzos, N. S.; Coolen, A. C. C.) Slowly evolving connectivity in recurrent neural networks. I. The extreme dilution regime. (English summary) **2005f:82093**
— (*with* Skantzos, N. S.) Slowly evolving random graphs. II. Adaptive geometry in finite-connectivity Hopfield models. (English summary) **2005m:82125**
— *see also* **Pérez Castillo, I. et al., 2005e:82091**
Xiu, Chunbo (*with* Liu, Xiang Dong; Tang, Yunyu; Zhang, Yuhe) A novel network

of chaotic elements and its application in multi-valued associative memory. (English summary) **2005e:82092**

Xu, Jin[2] *see* **Zhang, Qiang[5] et al.**

Xu, Zong Ben (*with* Cao, Fei Long) The essential order of approximation for neural networks. (English summary) **2005h:82092**

Zeng, Zhi Gang *see* **Liao, Xiao Xin et al., 2005d:82100**

Zhang, Qiang[5] (*with* Wei, Xiaopeng; Xu, Jin[2]) An analysis on the global asymptotic stability for neural networks with variable delays. (English summary)

Zhang, Yuhe *see* **Xiu, Chunbo et al., 2005e:82092**

Items with secondary classifications in 82C32

(Álvarez Sánchez, Jóse Ramón) *see* **Artificial neural nets problem solving methods, 2005a:68006**

Anderson, Charles H. *see* **Barber, M. J. et al., 2005a:92009**

Aoki, Hiroyuki Applications of complex-valued neural networks for image processing. (*see* **2005b:00018**)

(Arbib, Michael A.) *see* **Handbook of brain theory and neural networks, 2005m:68002**

Atay, Fatihcan M. *see* **Hutt, Axel, 2005k:92012**

Bao, Jundong *see* **Luo, Qi et al., 2005j:35123**

Barber, M. J. (*with* Clark, John W.; Anderson, Charles H.) Generating neural circuits that implement probabilistic reasoning. (English summary) **2005a:92009**

Bedaux, Jasper (*with* van Leeuwen, W. A.) Biologically inspired learning in a layered neural net. (English summary) **2005d:92002**

Bise, Ryoma (*with* Takahashi, Norikazu; Nishi, Tetsuo) An improvement of the design method of cellular neural networks based on generalized eigenvalue minimization. (English summary) **2005d:94216**

Boĭkov, I. V. On the stability of Hopfield neural networks. (Russian. Russian summary) **2005h:34129**

Busch, Hauke (*with* Hütt, Marc-Thorsten) Scale-dependence of spatiotemporal filters inspired by cellular automata. (English summary) **2005f:37026**

Cao, Jin De (*with* Jiang, Qiuhao) An analysis of periodic solutions of bi-directional associative memory networks with time-varying delays. (English summary)

Cho, E. C. *see* **Iyengar, S. Sitharama et al., 2005d:94034**

Chua, Leon O. *see* **Itoh, Makoto, 2005b:37019**

Clark, John W. *see* **Barber, M. J. et al., 2005a:92009**

Comets, Francis (*with* Kurkova, Irina; Trashorras, José) Fluctuations of the free energy in the high temperature Hopfield model. (English summary) **2005f:60211**

Coolen, A. C. C. *see* **Del Prete, Valeria, (2005j:92002)**

Del Prete, Valeria (*with* Coolen, A. C. C.) Non-equilibrium statistical mechanics of recurrent networks with realistic neurons. (English summary) (*see* **2005j:92002**)

Deng, Fei Qi *see* **Luo, Qi et al., 2005j:35123**

Eichelsbacher, Peter (*with* Löwe, Matthias) Moderate deviations for the overlap parameter in the Hopfield model. (English summary) **2005i:60042**

Feng, Chun Bo *see* **Sun, Changyin, 2005c:34154**

Fonarëv, A. B. *see* **Kryzhanovskiĭ, B. V. et al., 2005f:68127**

Fu, Yuli *see* **Luo, Qi et al., 2005j:35123**

Gerstner, Wulfram (*with* Kistler, Werner M.) ★ Spiking neuron models. (English summary) **2005g:92007**

Goh, Su Lee *see* **Mandic, Danilo P. et al., (2005b:00018)**

Gopalsamy, K. Stability of artificial neural networks with impulses. (English summary) **2005d:92004**

Guo, Shangjiang (*with* Huang, Li Hong[1]) Periodic oscillation for discrete-time Hopfield neural networks. (English summary) **2005c:39018**

Haken, Hermann ★ Synergetic computers and cognition. **2005e:68207**

Hanna, Andrew *see* **Mandic, Danilo P. et al., (2005b:00018)**

Hasegawa, Hideo Augmented moment method for stochastic ensembles with delayed couplings. II. FitzHugh-Nagumo model. (English summary) **2005k:92011**

Hirose, Akira *see* **Complex-valued neural networks, 2005b:00018** *and* **Kawata, Sotaro, (2005b:00018)**

Hoppensteadt, Frank C. *see* **Nishikawa, Takashi et al., 2005e:92008**

Hsiao, Han-Chyi *see* **Shih, Hsu-Shih et al.**

Huang, Li Hong[1] *see* **Guo, Shangjiang, 2005c:39018**

Hutt, Axel (*with* Atay, Fatihcan M.) Analysis of nonlocal neural fields for both general and gamma-distributed connectivities. (English summary) **2005k:92012**

Hütt, Marc-Thorsten *see* **Busch, Hauke, 2005f:37026**

Itoh, Makoto (*with* Chua, Leon O.) Star cellular neural networks for associative and dynamic memories. (English summary) **2005b:37019**

Iyengar, S. Sitharama (*with* Cho, E. C.; Phoha, Vir V.) ★ Foundations of wavelet networks and applications. **2005d:94034**

Jayadeva (*with* Rahman, Syed Atiqur) A neural network with $O(N)$ neurons for ranking N numbers in $O(1/N)$ time. (English summary)

Jiang, Qiuhao *see* **Cao, Jin De**

Kak, Subhash *see* **Rajagopal, Pritam, (2005b:00018)**

Kang, H. S. Adaptive differential game formulation—submicron optical laser. (English summary)

Kawata, Sotaro (*with* Hirose, Akira) Coherent lightwave neural network systems: use of frequency domain. (*see* **2005b:00018**)

Kishigami, Takaaki *see* **Takeda, Mitsuo, (2005b:00018)**

Kistler, Werner M. *see* **Gerstner, Wulfram, 2005g:92007**

Koshelev, V. N. *see* **Kryzhanovskiĭ, B. V. et al., 2005f:68127**

Kryzhanovskiĭ, B. V. (*with* Koshelev, V. N.; Fonarëv, A. B.) Estimation of the efficiency of randomized Hopfield memory. (Russian. Russian summary) **2005f:68127**

— (*with* Litinskiĭ, L. B.) Vector models of associative memory. (Russian. Russian summary)

Kurkova, Irina *see* **Comets, Francis et al., 2005f:60211**

Kuroe, Yasuaki A model of complex-valued associative memories and its dynamics. (*see* **2005b:00018**)

Lai, Ying-Cheng *see* **Nishikawa, Takashi et al., 2005e:92008**

Lan, Kuen-Ming *see* **Shih, Hsu-Shih et al.**

Lee, Donq-Liang Complex-valued neural associative memories: network stability and learning algorithm. (*see* **2005b:00018**)

Lee, E. Stanley *see* **Shih, Hsu-Shih et al.**

van Leeuwen, W. A. *see* **Bedaux, Jasper, 2005d:92002**

Li, Michael Y. *see* **Wei, Jun Jie, 2005m:34172**

Li, Yong Kun Global stability and existence of periodic solutions of discrete delayed cellular neural networks. (English summary) **2005f:39038**

— (*with* Lu, Linghong) Global exponential stability and existence of periodic solution of Hopfield-type neural networks with impulses. (English summary) **2005h:34013**

Litinskiĭ, L. B. *see* **Kryzhanovskiĭ, B. V.**

Liu, Jiang[2] (*with* Zhou, Ming Ru) Stability of Cohen-Grossberg neural networks with delay. (Chinese. English and Chinese summaries) **2005k:34295**

Löwe, Matthias *see* **Eichelsbacher, Peter, 2005i:60042**

Lu, Linghong *see* **Li, Yong Kun, 2005h:34013**

Luo, Qi (*with* Deng, Fei Qi; Bao, Jundong; Zhao, Birong; Fu, Yuli) Stabilization of stochastic Hopfield neural network with distributed parameters. (English summary) **2005j:35123**

Mandic, Danilo P. (*with* Goh, Su Lee; Hanna, Andrew) Data-reusing algorithm for complex-valued adaptive filters. (*see* **2005b:00018**)

(Mira, José) *see* **Artificial neural nets problem solving methods, 2005a:68006**

Miyajima, Teruyuki (*with* Yamanaka, Kazuo) Phasor model with application to multiuser communication. (*see* **2005b:00018**)

Nemoto, Iku Complex associative memory and complex single neuron model. (*see* **2005b:00018**)

Nishi, Tetsuo *see* **Bise, Ryoma et al., 2005d:94216**

Nishikawa, Takashi (*with* Hoppensteadt, Frank C.; Lai, Ying-Cheng) Oscillatory associative memory network with perfect retrieval. (English summary) **2005e:92008**

Phoha, Vir V. *see* **Iyengar, S. Sitharama et al., 2005d:94034**

Rahman, Syed Atiqur *see* **Jayadeva**

Rajagopal, Pritam (*with* Kak, Subhash) Instantaneously trained neural networks with complex inputs. (*see* **2005b:00018**)

Saad, David The theory of on-line learning—a statistical physics approach. (English summary) (*see* **2005b:62008**)

Schmitt, Michael RBF neural networks and Descartes' rule of signs. (English summary) (*see* **2005a:68003**)

Seung, H. Sebastian *see* **Xie, Xiaohui, 2005e:92004**

Shih, Hsu-Shih (*with* Wen, Ue-Pyng; Lee, E. Stanley; Lan, Kuen-Ming; Hsiao, Han-Chyi) A neural network approach to multiobjective and multilevel programming problems. (English summary)

Sugita, Hisato *see* **Watanabe, Teruyuki et al., 2005k:91179**

Sun, Changyin (*with* Feng, Chun Bo) Exponential periodicity and stability of delayed neural networks. (English summary) **2005c:34154**

Takahashi, Norikazu *see* **Bise, Ryoma et al., 2005d:94216**

Takeda, Mitsuo (*with* Kishigami, Takaaki) Complex neural network model with analogy to self-oscillation generated in an optical phase-conjugate resonator. (*see* **2005b:00018**)

Tan, Kok Kiong *see* **Zhang, Yi[1], 2005g:37058**

Trashorras, José *see* **Comets, Francis et al., 2005f:60211**

Wang, Guang Lan *see* **Zhao, Hong Yong**

Wang, Jun[3] *see* **Xia, You Sheng, 2005f:90086**

Wang, Lin[3] Stabilizing Hopfield neural networks via inhibitory self-connections. (English summary) **2005b:37212**

Watada, Junzo *see* **Watanabe, Teruyuki et al., 2005k:91179**

Watanabe, Teruyuki (*with* Watada, Junzo; Sugita, Hisato) Fund allocation method based on a block of shares. (English summary) **2005k:91179**

Wei, Jun Jie (*with* Li, Michael Y.) Global existence of periodic solutions in a tri-neuron network model with delays. (English summary) **2005m:34172**

Wen, Ue-Pyng *see* **Shih, Hsu-Shih et al.**

Xia, You Sheng (*with* Wang, Jun[3]) A recurrent neural network for nonlinear convex optimization subject to nonlinear inequality constraints. (English summary) **2005f:90086**

Xie, Xiaohui (*with* Seung, H. Sebastian) Learning in neural networks by reinforcement of irregular spiking. (English summary) **2005e:92004**

Yamanaka, Kazuo *see* **Miyajima, Teruyuki, (2005b:00018)**

Zhang, Yi[1] (*with* Tan, Kok Kiong) ★ Convergence analysis of recurrent neural networks. **2005g:37058**

Zhao, Birong *see* **Luo, Qi et al., 2005j:35123**

Zhao, Hong Yong (*with* Wang, Guang Lan) Existence of periodic oscillatory solution of reaction-diffusion neural networks with delays. (English summary)

Zhou, Ming Ru *see* **Liu, Jiang[2], 2005k:34295**

Items listed otherwise than by author

Artificial neural nets problem solving methods ★ Artificial neural nets problem solving methods. **2005a:68006**

Complex-valued neural networks ★ Complex-valued neural networks. **2005b:00018**

Handbook of brain theory and neural networks ★ The handbook of brain theory and neural networks. **2005m:68002**

Lecture Notes in Computer Science ★ Artificial neural nets problem solving methods. **2005a:68006**

Maó ★ Artificial neural nets problem solving methods. **2005a:68006**

82C35 Irreversible thermodynamics, including Onsager-Machlup theory

Badiali, J. P. Entropy, time-irreversibility and the Schrödinger equation in a primarily discrete spacetime. (English summary) **2005k:82079**

Bustamante, Carlos *see* **Gore, Jeff et al., 2005g:82106**

Chen, Jincan *see* **Lin, Bihong, 2005i:82057**

Diatta, Christian Sina *see* **Tall, Moustapha Sadibou et al., 2005g:82107**

Diedhiou, Ismaila *see* **Tall, Moustapha Sadibou et al., 2005g:82107**

Eu, Byung Chan Generalized hydrodynamics and irreversible thermodynamics. **2005b:82073**

Gamba, Andrea[1] (*with* Rondoni, Lamberto) Current fluctuations in the nonequilibrium Lorentz gas. (English summary) **2005c:82075**
Gore, Jeff (*with* Ritort, Felix; Bustamante, Carlos) Bias and error in estimates of equilibrium free-energy differences from nonequilibrium measurements. (English summary) **2005g:82106**
Lin, Bihong (*with* Chen, Jincan) Optimal analysis of the performance of an irreversible quantum heat engine with spin systems. (English summary) **2005i:82057**
Müller, Ingo Considerations about the Gibbs paradox. (English summary) (*see* **2005c:00016**)
Ndeye, Maurice *see* **Tall, Moustapha Sadibou et al., 2005g:82107**
Ndiaye, Diène *see* **Tall, Moustapha Sadibou et al., 2005g:82107**
Ritort, Felix *see* **Gore, Jeff et al., 2005g:82106**
Rondoni, Lamberto *see* **Gamba, Andrea**[1], **2005c:82075**
Ruggeri, Tommaso (*with* Trovato, Massimo) Hyperbolicity region for Fermi and Bose gases. (English summary) (*see* **2005c:00016**)
Seifert, Udo Fluctuation theorem for birth-death or chemical master equations with time-dependent rates. (English summary)
Tall, Moustapha Sadibou (*with* Ndeye, Maurice; Ndiaye, Diène; Diatta, Christian Sina; Diedhiou, Ismaila) On projection operator method in statistical mechanics; derivation of the Balescu-Lenard master equation. (English summary) **2005g:82107**
Trovato, Massimo *see* **Ruggeri, Tommaso**, (**2005c:00016**)

Items with secondary classifications in 82C35

Berdichevskiĭ, V. L. Structure of equations of macrophysics. (English summary) **2005a:80002**
Bertini, Lorenzo (*with* De Sole, A.; Gabrielli, Davide; Jona-Lasinio, Giovanni; Landim, Claudio) Minimum dissipation principle in stationary non-equilibrium states. (English summary) **2005d:82062**
Carrisi, M. C. *see* **Pennisi, Sebastiano**, **2005g:80002**
Cohen, E. G. D. (*with* Mauzerall, David) A note on the Jarzynski equality. (English summary) **2005m:82083**
De Sole, A. *see* **Bertini, Lorenzo et al., 2005d:82062**
Gabrielli, Davide *see* **Bertini, Lorenzo et al., 2005d:82062**
Huang, C. F. (*with* Huang, Keh Ning) Generalized master equations with nonhermitian operators. (English summary) **2005h:82073**
Huang, Keh Ning *see* **Huang, C. F., 2005h:82073**
Jona-Lasinio, Giovanni *see* **Bertini, Lorenzo et al., 2005d:82062**
Jou, David (*with* Lebon, Georgy; Mongiovì, M. S.; Peruzza, R. A.) Entropy flux in non-equilibrium thermodynamics. (English summary) **2005k:82047**
Landim, Claudio *see* **Bertini, Lorenzo et al., 2005d:82062**
Lebon, Georgy *see* **Jou, David et al., 2005k:82047**
Luzzi, Roberto (*with* Vasconcellos, Áurea R.; Ramos, José Galvão de Pisapia) Nonequilibrium ensemble formalism. (English summary)
Mauzerall, David *see* **Cohen, E. G. D., 2005m:82083**
Mongiovì, M. S. (*with* Peruzza, R. A.) Entropy flux far from equilibrium in solids and in non viscous gases. (English and Italian summaries) **2005c:74003**
— *see also* **Jou, David et al., 2005k:82047**
Pennisi, Sebastiano (*with* Carrisi, M. C.) On the exact macroscopic approach to extended thermodynamics with 20 moments. **2005g:80002**
— (*with* Scanu, A.) Judicious interpretation of the conditions present in extended thermodynamics. **2005g:80003**
Peruzza, R. A. *see* **Mongiovì, M. S., 2005c:74003** *and* **Jou, David et al., 2005k:82047**
Ramos, José Galvão de Pisapia *see* **Luzzi, Roberto et al.**
Rikvold, Per Arne *see* **Zia, R. K. P., 2005a:92034**
Scanu, A. *see* **Pennisi, Sebastiano, 2005g:80003**
Sewell, Geoffrey L. Quantum macrostatistical picture of nonequilibrium steady states. (English summary) **2005f:82071**
Vasconcellos, Áurea R. *see* **Luzzi, Roberto et al.**
Zia, R. K. P. (*with* Rikvold, Per Arne) Fluctuations and correlations in an individual-based model of biological coevolution. (English summary) **2005a:92034**

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Abourabia, A. M. (*with* Mahmoud, Mahmoud Abd-Elaty; Abou-Shady, M. M.) On non-equilibrium thermodynamics in binary gas mixtures. (English summary)
Abou-Shady, M. M. *see* **Abourabia, A. M. et al.**
Alì, Giuseppe (*with* Anile, Angelo Marcello) Moment equations for charged particles: global existence results. (English summary) **2005f:82094**
Andallah, Laek S. On the generation of a hexagonal collision model for the Boltzmann equation. (English summary) **2005m:82126**
Andréasson, Håkan (*with* Calogero, Simone; Illner, Reinhard) On blowup for gain-term-only classical and relativistic Boltzmann equations. (English summary) **2005h:82093**
Andriyan, S. M. *see* **Khachatryan, A. Kh., 2005m:82130**
Anikonov, Yu. E. Inverse problems for systems of kinetic equations. (English summary) **2005g:82108**
Anile, Angelo Marcello *see* **Alì, Giuseppe**, **2005f:82094**
Aristov, Vladimir Vladimirovich Solution of the Boltzmann equation for small Knudsen numbers. (Russian. Russian summary) **2005f:82095**
Arkeryd, Leif (*with* Nouri, Anne) The stationary nonlinear Boltzmann equation in a Couette setting with multiple, isolated L^q-solutions and hydrodynamic limits. (English summary) **2005m:82127**
Bao, Weizhu (*with* Pareschi, Lorenzo; Markowich, Peter A.) Quantum kinetic theory: modelling and numerics for Bose-Einstein condensation. (English summary) (*see* **2005a:82001**)
Barbera, E. (*with* Müller, Ingo; Reitebuch, D.; Zhao, N.-R.) Determination of boundary conditions in extended thermodynamics via fluctuation theory. (English summary) **2005e:82093**
Barichello, Liliane Basso *see* **Camargo, Mariza, 2005k:82081**
Baskaran, Aparna *see* **Dufty, James W. et al., 2005e:82095**
Bellouquid, Abdelghani From discrete Boltzmann equation to compressible linearized Euler equations. (English summary) **2005k:82080**
Benedetto, Dario (*with* Caglioti, Emanuele; Golse, François; Pulvirenti, Mario) Hydrodynamic limits of a Vlasov-Fokker-Planck equation for granular media. (English summary) **2005g:82109**
— (*with* Castella, François; Esposito, Raffaele; Pulvirenti, Mario) Some considerations on the derivation of the nonlinear quantum Boltzmann equation. (English summary) **2005g:82110**
Bobylev, A. V. (*with* Martínez-Gamba, Irene; Panferov, Vladislav A.) Moment inequalities and high-energy tails for Boltzmann equations with inelastic interactions. (English summary) **2005g:82111**
Boca, Florin P. (*with* Gologan, Radu N.; Zaharescu, Alexandru) Sur le modèle du gaz de Lorentz périodique. (French summary) [On the periodic Lorentz gas model] **2005b:82074**
Boghosian, Bruce M. (*with* Love, Peter J.; Yepez, Jeffrey; Coveney, Peter V.) Galilean-invariant multi-speed entropic lattice Boltzmann models. (English summary) **2005g:82112**
Bouchut, François (*with* Golse, François; Pulvirenti, Mario) ★ Kinetic equations and asymptotic theory. **2005d:82102**
Bourgade, J. P. (*with* Mellet, Antoine; Mieussens, Luc) Numerical comparison between two spherical harmonics expansion models and a kinetic equation. (English summary) **2005j:82067**
Brizard, Alain J. A guiding-center Fokker-Planck collision operator for nonuniform magnetic fields. (English summary) **2005e:82094**
Cabannes, Henri (*with* Gatignol, Renée; Luo, Li-Shi) ★ The discrete Boltzmann equation (theory and applications). **2005c:82076**
Caglioti, Emanuele (*with* Chernov, Nikolai I.; Lebowitz, Joel L.) Stability of solutions of hydrodynamic equations describing the scaling limit of a massive piston in an ideal gas. (English summary) **2005h:82094**
— *see also* **Benedetto, Dario et al., 2005g:82109**
Calogero, Simone The Newtonian limit of the relativistic Boltzmann equation. (English summary) **2005f:82096**
— *see also* **Andréasson, Håkan et al., 2005h:82093**
Camargo, Mariza (*with* Barichello, Liliane Basso) Unified approach for variable collision-frequency models in rarefied gas dynamics. (English summary) **2005k:82081**
Caraffini, G. L. *see* **Ertler, C. et al.**
Carlen, E. A. (*with* Carvalho, M. C.) Probabilistic methods in kinetic theory. (English summary) **2005f:82097**
— (*with* Gangbo, Wilfrid) Solution of a model Boltzmann equation via steepest descent in the 2-Wasserstein metric. (English summary) **2005b:82075**
— (*with* Carvalho, M. C.; Gabetta, E.) On the relation between rates of relaxation and convergence of Wild sums for solutions of the Kac equation. (English summary) **2005j:82068**
Carvalho, M. C. *see* **Carlen, E. A. et al., 2005f:82097** *and* **2005j:82068**
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Chernov, Nikolai I. *see* **Caglioti, Emanuele et al., 2005h:82094**
Chvála, František Boundedness of the Boltzmann gain collision operators in Lebesgue spaces. (English summary) **2005h:82095**
Cornille, Henri Half-space large size discrete velocity models. (English summary) **2005d:82103**
— Planar DVMs mixtures models with the same geometrical structure. (English summary) (*see* **2005c:00016**)
— Discrete velocity models and one continuous relation. (English summary) **2005d:82104**
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Crouseilles, Nicolas (*with* Degond, Pierre; Lemou, Mohammed) A hybrid kinetic-fluid model for solving the Vlasov-BGK equation. (English summary) **2005j:82069**
Dadzie, S. Kokou (*with* Méolans, J. Gilbert) Anisotropic scattering kernel: generalized and modified Maxwell boundary conditions. (English summary) **2005a:82087**
Degond, Pierre Macroscopic limits of the Boltzmann equation: a review. (English summary) **2005d:82105**
— *see also* **Crouseilles, Nicolas et al., 2005j:82069**
Deloubrière, O. *see* **Hilhorst, H. J. et al.**
Desvillettes, Laurent (*with* Villani, Cédric) Rate of convergence toward the equilibrium in degenerate settings. (English summary) (*see* **2005c:00016**)
— (*with* Villani, Cédric) On the trend to global equilibrium for spatially inhomogeneous kinetic systems: the Boltzmann equation. (English summary) **2005j:82070**
— *see also* **Bouchut, François et al., 2005d:82102**
Dufty, James W. (*with* Baskaran, Aparna; Zogaib, Lorena) Gaussian kinetic model for granular gases. (English summary) **2005e:82095**
Edelman, M. A. *see* **Zaslavsky, G. M., 2005h:82099**
Engibaryan, N. B. (*with* Khachatryan, A. Kh.) Problems in the nonlinear theory of the dynamics of a rarefied gas. (Russian. English and Russian summaries) **2005m:82128**
Ertler, C. (*with* Caraffini, G. L.; Schürrer, F.; Spiga, Giampiero) A multicell approximation to the Boltzmann equation for bimolecular chemical reactions. (English summary)
Escobedo, Miguel (*with* Laurençot, Philippe; Mischler, Stéphane) On a kinetic equation for coalescing particles. (English summary) **2005a:82088**
Esposito, Raffaele (*with* Pulvirenti, Mario) From particles to fluids. **2005f:82098**
— *see also* **Benedetto, Dario et al., 2005g:82110**
Fellner, Klemens (*with* Poupaud, Frédéric; Schmeiser, Christian) Existence and convergence to equilibrium of a kinetic model for cometary flows. (English summary) **2005c:82077**
Fournier, Nicolas (*with* Mischler, Stéphane) On a discrete Boltzmann-Smoluchowski equation with rates bounded in the velocity variables. (English summary) **2005m:82129**
Gabetta, E. *see* **Carlen, E. A. et al., 2005j:82068**
Galkin, V. S. (*with* Zharov, V. A.) Exact solutions of the kinetic Boltzmann-Maxwell equation. (Russian. Russian summary) **2005a:82089**
Gangbo, Wilfrid *see* **Carlen, E. A., 2005b:82075**
Garcia, R. D. M. (*with* Siewert, C. E.; Williams, M. M. R.) A formulation of the linearized Boltzmann equations for a binary mixture of rigid spheres. (English summary)
Gaspard, Pierre *see* **Viscardy, S., 2005b:82077** *and* **Mátyás, László, 2005k:82084**

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— (*with* Ryabukha, T. V.; Stashenko, M. A.) On the structure of expansions for the BBGKY hierarchy solutions. (English summary) **2005f:82099**
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Gorban′, A. N. (*with* Karlin, I. V.; Zinovyev, Andrei Yu.) Constructive methods of invariant manifolds for kinetic problems. (English summary) **2005a:82090**
Groppi, Maria (*with* Pennacchio, Micol) An IMEX finite volume scheme for reactive Euler equations arising from kinetic theory. (English summary) **2005d:82107**
— (*with* Polewczak, Jacek) On two kinetic models for chemical reactions: comparisons and existence results. (English summary) **2005g:82113**
Guérin, Hélène Pointwise convergence of Boltzmann solutions for grazing collisions in a Maxwell gas via a probabilistic interpretation. (English summary) **2005k:82082**
Ha, Seung-Yeal L^1 stability of multi-dimensional discrete-velocity Boltzmann equations. (English summary) **2005e:82096**
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Hilhorst, H. J. (*with* Deloubrière, O.; Washenberger, M. J.; Täuber, Uwe C.) Segregation in diffusion-limited multispecies pair annihilation. (English summary)
Hoffmann, Karl Heinz² *see* **Seeger, Steffen, 2005m:82134**
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Jagodziński, Sławomir (*with* Lachowicz, Mirosław) On two incompressible hydrodynamic limits of the Boltzmann-Enskog equation. I. Formal derivations. (English summary) **2005h:82096**
Karlin, I. V. *see* **Gorban′, A. N. et al., 2005a:82090**
Khachatryan, A. Kh. (*with* Andriyan, S. M.) On the velocity jump of a rarefied gas in the framework of the linearized BGK model of the Boltzmann equation. (Russian. Russian summary) **2005m:82130**
— *see also* **Engibaryan, N. B., 2005m:82128**
Kolokol′tsov, V. N. Hydrodynamic limit of coagulation-fragmentation type models of k-nary interacting particles. (English summary) [Hydrodynamic limit of coagulation-fragmentation type models of k-ary interacting particles] **2005i:82058**
Kosina, H. (*with* Nedjalkov, M.; Selberherr, S.) Solution of the space-dependent Wigner equation using a particle model. (English summary) **2005g:82114**
Lachowicz, Mirosław *see* **Jagodziński, Sławomir, 2005h:82096**
Latyshev, Anatoliĭ Vasil′evich (*with* Yushkanov, A. A.) A method for solving boundary value problem for kinetic equations. (Russian. Russian summary) **2005f:82100**
— (*with* Yushkanov, A. A.) Analytical description of the skin effect in a metal using the two-parameter kinetic equation. (Russian. Russian summary) **2005m:82131**
— *see also* **Lukankin, G. L. et al., 2005e:82098**
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Lemou, Mohammed *see* **Crouseilles, Nicolas et al., 2005j:82069**
Li, Hai Liang² (*with* Toscani, Giuseppe) Long-time asymptotics of kinetic models of granular flows. (English summary) **2005e:82097**
Liu, Tai-Ping (*with* Yu, Shih-Hsien) Boltzmann equation: micro-macro decompositions and positivity of shock profiles. (English summary) **2005f:82101**
— (*with* Yu, Shih-Hsien) The Green's function and large-time behavior of solutions for the one-dimensional Boltzmann equation. (English summary) **2005m:82132**
— (*with* Yang, Tong; Yu, Shih-Hsien) Energy method for Boltzmann equation. (English summary) **2005a:82091**
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Love, Peter J. *see* **Boghosian, Bruce M. et al., 2005g:82112**
Lu, Xuguang (*with* Wennberg, Bernt) On stability and strong convergence for the spatially homogeneous Boltzmann equation for Fermi-Dirac particles. (English summary) **2005a:82092**
Lukankin, G. L. (*with* Latyshev, Anatoliĭ Vasil′evich; Ryndina, S. V.) An analytic solution of a general boundary value problem for the BKW-equation. (Russian. Russian summary) **2005e:82098**
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Mareschal, M. (*with* McNamara, S.) Lyapunov hydrodynamics in the dilute limit. (English summary) **2005k:82083**
Markowich, Peter A. *see* **Bao, Weizhu et al., (2005a:82001)**
Martínez-Gamba, Irene (*with* Panferov, Vladislav A.; Villani, Cédric) On the Boltzmann equation for diffusively excited granular media. (English summary) **2005b:82076**
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van der Mee, Cornelis V. M. Stationary kinetic equations with collision terms relatively bounded with respect to the collision frequency. (English summary) **2005f:82102**
Mellet, Antoine (*with* Mischler, Stéphane) Uniqueness and semigroup for the Vlasov equation with elastic-diffusive reflexion boundary conditions. (English summary) **2005g:82115**
— *see also* **Bourgade, J. P. et al., 2005j:82067**
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Nouri, Anne (*with* Omrane, Abdennebi; Vila, Jean-Paul) Erratum on: "Boundary conditions for scalar conservation laws from a kinetic point of view" [J. Statist. Phys. **94** (1999), no. 5–6, 779–804; MR1694068 (2000c:82069)]. **2005h:82098**
— *see also* **Arkeryd, Leif, 2005m:82127**
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— *see also* **Martínez-Gamba, Irene et al., 2005b:82076** *and* **Bobylev, A. V. et al., 2005g:82111**
Pareschi, Lorenzo *see* **Bao, Weizhu et al., (2005a:82001)**
Peletminskiĭ, S. V. (*with* Slyusarenko, Yu. V.; Sokolovskiĭ, A. I.) Kinetics and hydrodynamics of long-wave fluctuations under external random force. (English summary) **2005f:82103**
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Pesci, Adriana I. (*with* Goldstein, Raymond E.) Mapping of the classical kinetic balance equations onto the Schrödinger equation. (English summary) **2005m:82133a**
— (*with* Goldstein, Raymond E.; Uys, Hermann) Mapping of the classical kinetic balance equations onto the Pauli equation. (English summary) **2005m:82133b**
Petrie, C. J. S. *see* **Sergeev, Yu. A. et al., 2005d:82108**
Pettersson, Rolf On solutions to the linear Boltzmann equation for granular gases. (English summary)
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Ricci, Valeria (*with* Wennberg, Bernt) On the derivation of a linear Boltzmann equation from a periodic lattice gas. (English summary) **2005g:82117**
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Ryndina, S. V. *see* **Lukankin, G. L. et al., 2005e:82098**
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Schneider, Jacques Entropic approximation in kinetic theory. (English summary) **2005f:82106**
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Seeger, Steffen (*with* Hoffmann, Karl Heinz²) Erratum: "The cumulant method applied to a mixture of Maxwell gases" [Contin. Mech. Thermodyn. **14** (2002), no. 4, 321–335; MR1920892 (2003h:82080)].
— (*with* Hoffmann, Karl Heinz²) The cumulant method for the space-homogeneous Boltzmann equation. (English summary) **2005m:82134**
Selberherr, S. *see* **Kosina, H. et al., 2005g:82114**
Sergeev, Yu. A. (*with* Swailes, D. C.; Petrie, C. J. S.) Stability of uniform fluidization revisited. (English summary) **2005d:82108**
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Siewert, C. E. *see* **Garcia, R. D. M. et al.**
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Sokolovskiĭ, A. I. *see* **Peletminskiĭ, S. V. et al., 2005f:82103**
Soloveĭchik, M. R. Hydrodynamic scale for a driven tracer particle: Rigorous results. (English and Italian summaries) **2005d:82109**
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Täuber, Uwe C. *see* **Hilhorst, H. J. et al.**
Tidriri, M. Hydrodynamic limit of a B.G.K. like model on domains with boundaries and analysis of kinetic boundary conditions for scalar multidimensional conservation laws. (English summary) **2005j:82071**
Toscani, Giuseppe Kinetic and hydrodynamic models of nearly elastic granular flows. (English summary) **2005f:82107**
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Vila, Jean-Paul *see* **Nouri, Anne et al., 2005h:82098**
Villani, Cédric Limites hydrodynamiques de l'équation de Boltzmann (d'après C. Bardos, F. Golse, C. D. Levermore, P.-L. Lions, N. Masmoudi, L. Saint-Raymond). (French summary) [Hydrodynamic limits of the Boltzmann equation (following C. Bardos, F. Golse, C. D. Levermore, P.-L. Lions, N. Masmoudi, L. Saint-Raymond)] **2005f:82108**
— *see also* **Martínez-Gamba, Irene et al., 2005b:82076**; **Desvillettes, Laurent, 2005j:82070** *and* **(2005c:00016)**
Viscardy, S. (*with* Gaspard, Pierre) Viscosity in molecular dynamics with periodic boundary conditions. (English summary) **2005b:82077**

Washenberger, M. J. *see* **Hilhorst, H. J. et al.**
Wennberg, Bernt *see* **Lu, Xuguang, 2005a:82092** *and* **Ricci, Valeria, 2005g:82117**
Williams, M. M. R. *see* **Garcia, R. D. M. et al.**
Witten, T. M. A general solution of the time-independent forward Boltzmann equation for high energy ^{4}He and its secondaries through bulk matter. (English summary)
Xu, Kun *see* **Ohwada, Taku, 2005g:82116**
Yang, Tong *see* **Liu, Tai-Ping et al., 2005a:82091**
Yepez, Jeffrey *see* **Boghosian, Bruce M. et al., 2005g:82112**
Yu, Shih-Hsien *see* **Liu, Tai-Ping et al., 2005a:82091; 2005f:82101** *and* **2005m:82132**
Yushkanov, A. A. *see* **Latyshev, Anatoliĭ Vasil'evich, 2005f:82100** *and* **2005m:82131**
Zaharescu, Alexandru *see* **Boca, Florin P. et al., 2005b:82074**
Zakharchenko, P. A. (*with* Radkevich, E. V.) The central manifold and problems of the Chapman-Enskog projection for the Boltzmann-Peierls equation. (Russian) **2005j:82072**
Zaslavsky, G. M. (*with* Edelman, M. A.) Fractional kinetics: from pseudochaotic dynamics to Maxwell's demon. (English summary) **2005h:82099**
Zhao, N.-R. *see* **Barbera, E. et al., 2005c:82093**
Zharov, V. A. *see* **Galkin, V. S., 2005a:82089**
Zheng, Ying Song (*with* Struchtrup, Henning) Burnett equations for the ellipsoidal statistical BGK model. (English summary) **2005e:82100**
Zinovyev, Andrei Yu. *see* **Gorban', A. N. et al., 2005a:82090**
Zogaib, Lorena *see* **Dufty, James W. et al., 2005e:82095**

Items with secondary classifications in 82C40

Adzhiev, S. Z. (*with* Amosov, S. A.; Vedenyapin, V. V.) One-dimensional discrete models of kinetic equations for mixtures. (Russian. Russian summary) **2005a:76140**
Akhiev, S. S. (*with* Özer, Teoman) Symmetry groups of the equations with nonlocal structure and an application for the collisionless Boltzmann equation. (English summary)
Alba, David (*with* Lusanna, Luca) Generalized Eulerian coordinates for relativistic fluids: Hamiltonian rest-frame instant form, relative variables, rotational kinematics. (English summary) **2005g:76135**
Amosov, S. A. *see* **Adzhiev, S. Z. et al., 2005a:76140**
Aoki, Kazuo[2] (*with* Degond, Pierre) Homogenization of a flow in a periodic channel of small section. (English summary) **2005g:76097**
— (*with* Kosuge, Shingo) Finite-difference methods for the Boltzmann equation for binary gas mixtures. (English summary) **2005i:65161**
Arkeryd, Leif (*with* Nouri, Anne) A large data existence result for the stationary Boltzmann equation in a cylindrical geometry. (English summary) **2005m:35034**
Astillero, Antonio *see* **Garzó, Vicente, 2005k:82095**
Banasiak, Jacek Chaos in some linear kinetic models. (*see* **2005c:00016**)
Bellomo, Nicola (*with* Bellouquid, Abdelghani; Delitala, Marcello) Mathematical topics on the modelling complex multicellular systems and tumor immune cells competition. (English summary) **2005g:92028**
Bellouquid, Abdelghani On the asymptotic analysis of kinetic models towards the compressible Euler and acoustic equations. (English summary) **2005i:76096**
— *see also* **Bellomo, Nicola et al., 2005g:92028**
Ben Abdallah, Naoufel (*with* Martínez-Gamba, Irene; Klar, Axel) The Milne problem for high field kinetic equations. (English summary) **2005g:82050**
Bertotti, Maria Letizia (*with* Delitala, Marcello) From discrete kinetic and stochastic game theory to modelling complex systems in applied sciences. (English summary) **2005e:60231**
Bisi, M. (*with* Spiga, Giampiero) Hydrodynamic limit for a gas with chemical reactions. (English summary) (*see* **2005c:00016**)
— (*with* Spiga, Giampiero; Toscani, Giuseppe) Grad's equations and hydrodynamics for weakly inelastic granular flows. (English summary) **2005g:76124**
Boghosian, Bruce M. *see* **Love, Peter J., 2005g:76028**
Bonilla, Luis L. *see* **Neu, John C. et al., 2005m:82112**
Borghero, Francesco (*with* Demontis, F.; Pennisi, Sebastiano) An exact macroscopic extended model with many moments for ultrarelativistic gases. **2005d:80001**
Bouchut, François (*with* Golse, François; Pallard, Christophe) Nonresonant smoothing for coupled wave + transport equations and the Vlasov-Maxwell system. (English summary) **2005j:35137**
Brady, J. F. *see* **Subramanian, Ganesh, 2005c:82070**
Brassart, Matthieu The Boltzmann equation as limit of a Schrödinger equation with random potential. (English summary) **2005f:82112**
Brey, J. Javier (*with* Ruiz-Montero, M. J.) Validity of the Boltzmann equation to describe low-density granular systems. (English summary)
Brilliantov, Nikolai V. *see* **Pöschel, Thorsten et al., 2005d:82124**
Brown, Peter N. (*with* Lee, Barry; Manteuffel, Thomas A.) A moment-parity multigrid preconditioner for the first-order system least-squares formulation of the Boltzmann transport equation. (English summary) **2005f:65168**
Brydges, David C. (*with* Imbrie, John Z.) Branched polymers and dimensional reduction. (English summary) **2005c:82051**
Bunimovich, Leonid A. (*with* Khlabystova, Milena A.) One-dimensional Lorentz gas with rotating scatterers: exact solutions. (English summary) **2005g:82083**
Caflisch, Russel E. (*with* Pareschi, Lorenzo) Towards a hybrid Monte Carlo method for rarefied gas dynamics. (English summary) **2005b:82082**
Carlen, E. A. (*with* Lieb, Elliott H.; Loss, Michael) A sharp analog of Young's inequality on S^N and related entropy inequalities. (English summary) **2005k:82046**
Carpio, A. *see* **Neu, John C. et al., 2005m:82112**
Carrisi, M. C. *see* **Pennisi, Sebastiano, 2005g:80002**
Castagnino, M. A. (*with* Lombardi, Olimpia) The generic nature of the global and non-entropic arrow of time and the dual role of the energy-momentum tensor. (English summary) **2005b:83137**
Cercignani, Carlo (*with* Lampis, Maria; Lorenzani, Silvia) Variational approach to gas flows in microchannels. (English summary) **2005b:76113**
— (*with* Lampis, Maria; Lorenzani, Silvia) Plane Poiseuille flow with symmetric and nonsymmetric gas-wall interactions. (English summary) **2005m:76155**
Chavanis, Pierre-Henri (*with* Laurençot, Philippe; Lemou, Mohammed) Chapman-Enskog derivation of the generalized Smoluchowski equation. (English summary) **2005m:82115**
Chen, Chiun-Chuan (*with* Liu, Tai-Ping; Yang, Tong) Existence of boundary layer solutions to the Boltzmann equation. (English summary) **2005m:35039**
Chen, Tian-Quan ★ A non-equilibrium statistical mechanics. **2005c:82053**
Chen, Wen Bin (*with* Shen, Yi-fan; Xia, Qing) A mortar finite element approximation for the linear Poisson-Boltzmann equation. (English summary) **2005m:65262**
Chesnokov, Aleksandr Aleksandrovich *see* **Russo, Giovanni et al., 2005k:76134**
Chew, Y. T. *see* **Niu, X. D. et al., 2005f:82073**
Crouseilles, Nicolas (*with* Degond, Pierre; Lemou, Mohammed) A hybrid kinetic/fluid model for solving the gas dynamics Boltzmann-BGK equation. (English summary) **2005i:76084**
Cui, Guo-zhong *see* **Xu, Ji-jun et al., 2005f:35043**
Degond, Pierre (*with* Levermore, C. David; Schmeiser, Christian) A note on the energy-transport limit of the semiconductor Boltzmann equation. (English summary) **2005b:82097**
— *see also* **Modeling and computational methods for kinetic equations, 2005a:82001**; **Aoki, Kazuo[2], 2005g:76097** *and* **Crouseilles, Nicolas et al., 2005i:76084**
Delitala, Marcello *see* **Bertotti, Maria Letizia, 2005e:60231** *and* **Bellomo, Nicola et al., 2005g:92028**
Demontis, F. *see* **Borghero, Francesco et al., 2005d:80001**
Desvillettes, Laurent About the use of the Fourier transform for the Boltzmann equation. (English summary) **2005a:35040**
— Plasma kinetic models: the Fokker-Planck-Landau equation. (English summary) **2005k:82073**
— (*with* Mouhot, Clément) About L^p estimates for the spatially homogeneous Boltzmann equation. (English and French summaries) **2005m:35035**
(Dufty, James W.) *see* **Garzó, Vicente, 2005b:76115**
E, Wei-nan (*with* Li, Tiejun; Zhang, Ping Wen) Well-posedness for the dumbbell model of polymeric fluids. (English summary) **2005d:35210**
Falk, Lennart Existence of solutions to the stationary linear Boltzmann equation. (English summary) **2005j:35014**
Fannjiang, Albert C. Convergence of passive scalar fields in Ornstein-Uhlenbeck flows in Kraichnan's model. (English summary) **2005b:76074**
Fayolle, Guy (*with* Malyshev, V. A.; Pirogov, S. A.) Stochastic chemical kinetics with energy parameters. (English summary) (*see* **2005d:00014**)
Filbet, Francis (*with* Russo, Giovanni) Accurate numerical methods for the Boltzmann equation. (English summary) **2005d:82117**
Garzó, Vicente (*with* Santos, Andrés) ★ Kinetic theory of gases in shear flows. **2005b:76115**
— (*with* Astillero, Antonio) Transport coefficients for inelastic Maxwell mixtures. (English summary) **2005k:82095**
Ghomeshi, S. Existence and uniqueness of solutions for the Couette problem. (English summary) **2005m:35036**
Golse, François (*with* Saint-Raymond, Laure) The Navier-Stokes limit of the Boltzmann equation for bounded collision kernels. (English summary) **2005f:76003**
— *see also* **Bouchut, François et al., 2005j:35137**
Goudon, Thierry (*with* Jabin, Pierre-Emmanuel; Vasseur, Alexis) Hydrodynamic limit for the Vlasov-Navier-Stokes equations. I. Light particles regime. (English summary) **2005k:35334**
— (*with* Jabin, Pierre-Emmanuel; Vasseur, Alexis) Hydrodynamic limit for the Vlasov-Navier-Stokes equations. II. Fine particles regime. (English summary) **2005k:35335**
Groppi, Maria (*with* Spiga, Giampiero) A Bhatnagar-Gross-Krook-type approach for chemically reacting gas mixtures. (English summary) **2005f:76088**
Guo, Rui-qiang *see* **Xu, Ji-jun et al., 2005f:35043**
Ha, Seung-Yeal L^1 stability of the Boltzmann equation for the hard-sphere model. (English summary) **2005k:35045**
Heggie, Douglas (*with* Hut, Piet) ★ The gravitational million-body problem. **2005j:85003**
Hut, Piet *see* **Heggie, Douglas, 2005j:85003**
Imbert, Cyril (*with* Vovelle, Julien) A kinetic formulation for multidimensional scalar conservation laws with boundary conditions and applications. (English summary) **2005i:35181**
Imbrie, John Z. *see* **Brydges, David C., 2005c:82051**
Ivanov, Mikhail Samuilovich (*with* Korotchenko, M. A.; Mikhailov, Gennadii A.; Rogazinskiĭ, S. V.) New Monte Carlo global weight method for the approximate solution of the nonlinear Boltzmann equation. (English summary) **2005f:82121**
Jabin, Pierre-Emmanuel (*with* Vega, Luis) A real space method for averaging lemmas. (English summary) **2005k:35027**
— *see also* **Goudon, Thierry et al., 2005k:35334** *and* **2005k:35335**
Khisamutdinov, A. I. On some properties of Monte Carlo methods and Markov processes for the inhomogeneous Boltzmann equation. (Russian) **2005m:65007**
Khlabystova, Milena A. *see* **Bunimovich, Leonid A., 2005g:82083**
Klar, Axel (*with* Wegener, Raimund) Traffic flow: models and numerics. (English summary) **2005f:90026**
— *see also* **Ben Abdallah, Naoufel et al., 2005g:82050**
Kolesnichenko, A. V. Thermodynamic description of developed turbulence taking into account coherent vortex structures. (Russian. English and Russian summaries) **2005j:76046**
Korotchenko, M. A. *see* **Ivanov, Mikhail Samuilovich et al., 2005f:82121**
Kosuge, Shingo *see* **Aoki, Kazuo[2], 2005i:65161**
Lachowicz, Mirosław On bilinear kinetic equations. Between micro and macro descriptions of biological populations. (English summary) **2005e:35232**
Lampis, Maria *see* **Cercignani, Carlo et al., 2005b:76113** *and* **2005m:76155**
Latyshev, Anatoliĭ Vasil'evich (*with* Yushkanov, A. A.) Moment boundary conditions in rarefied gas slip-flow problems. (Russian. Russian summary) **2005b:76116**
Laurençot, Philippe *see* **Chavanis, Pierre-Henri et al., 2005m:82115**
Lee, Barry *see* **Brown, Peter N. et al., 2005f:65168**
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Levermore, C. David *see* **Degond, Pierre et al., 2005b:82097**
Li, Tiejun *see* **E, Wei-nan et al., 2005d:35210**

Lieb, Elliott H. *see* **Carlen, E. A. et al., 2005k:82046**
Liu, Tai-Ping (*with* Yang, Tong; Yu, Shih-Hsien) Entropy pairs for conservation laws and H-theorem for the Boltzmann equation. (English summary) **2005b:35185**
— *see also* **Chen, Chiun-Chuan et al., 2005m:35039**
Liu, Xiao Ping[3] *see* **Yu, De Jian, 2005k:47171**
Lombardi, Olimpia *see* **Castagnino, M. A., 2005b:83137**
Lorenzani, Silvia *see* **Cercignani, Carlo et al., 2005b:76113** *and* **2005m:76155**
Loss, Michael *see* **Carlen, E. A. et al., 2005k:82046**
Love, Peter J. (*with* Boghosian, Bruce M.) On the dependence of the Navier-Stokes equations on the distribution of molecular velocities. (English summary) **2005g:76028**
Lusanna, Luca *see* **Alba, David, 2005g:76135**
Madalieva, S. N. On the solvability of a boundary value problem for a linear stationary one-dimensional system of Boltzmann moment equations in an odd approximation. (Russian. English, Russian and Kazakh summaries) **2005f:34029**
Malyshev, V. A. *see* **Fayolle, Guy et al., (2005d:00014)**
Manteuffel, Thomas A. *see* **Brown, Peter N. et al., 2005f:65168**
Martínez-Gamba, Irene *see* **Ben Abdallah, Naoufel et al., 2005g:82050**
Masmoudi, Nader Hydrodynamic limits of the Boltzmann equation. (English summary) **2005c:76002**
Mikhailov, Gennadii A. (*with* Rogazinskiĭ, S. V.) Weighted Monte Carlo methods for approximate solution of nonlinear Boltsmann equation. (English summary) (*see* **2005i:65006**)
— *see also* **Ivanov, Mikhail Samuilovich et al., 2005f:82121**
Mouhot, Clément *see* **Desvillettes, Laurent, 2005m:35035**
Neu, John C. (*with* Bonilla, Luis L.; Carpio, A.) Igniting homogeneous nucleation. (English summary) **2005m:82112**
Niu, X. D. (*with* Shu, Chang[1]; Chew, Y. T.; Wang, Tong Guang) Investigation of stability and hydrodynamics of different lattice Boltzmann models. (English summary) **2005f:82073**
Nouri, Anne *see* **Arkeryd, Leif, 2005m:35034**
Özer, Teoman *see* **Akhiev, S. S.**
Pallard, Christophe *see* **Bouchut, François et al., 2005j:35137**
Pandolfi Bianchi, M. (*with* Soares, A. J.) Kinetic approach to transport properties of a reacting gas. (English summary) (*see* **2005c:00016**)
Pareschi, Lorenzo *see* **Modeling and computational methods for kinetic equations, 2005a:82001** *and* **Caflisch, Russel E., 2005b:82082**
Pennisi, Sebastiano (*with* Carrisi, M. C.) On the exact macroscopic approach to extended thermodynamics with 20 moments. **2005g:80002**
— *see also* **Borghero, Francesco et al., 2005d:80001**
Perthame, Benoît ★ Kinetic formulation of conservation laws. **2005d:35005**
Pirogov, S. A. *see* **Fayolle, Guy et al., (2005d:00014)**
Pöschel, Thorsten (*with* Brilliantov, Nikolai V.; Schwager, Thomas) Long-time behavior of granular gases with impact-velocity dependent coefficient of restitution. (English summary) **2005d:82124**
(Qian, Min) *see* **Chen, Tian-Quan, 2005c:82053**
Rezakhanlou, Fraydoun Boltzmann-Grad limits for stochastic hard sphere models. (English summary) **2005f:82078**
Ringhofer, Christian Kinetic and gas-dynamic models for semiconductor transport. (English summary) (*see* **2005f:82134**)
Rjasanow, Sergej Monte-Carlo methods for the Boltzmann equation. (English summary) **2005d:82120**
Rogazinskiĭ, S. V. *see* **Ivanov, Mikhail Samuilovich et al., 2005f:82121** *and* **Mikhailov, Gennadii A., (2005i:65006)**
Ruggeri, Tommaso (*with* Trovato, Massimo) Hyperbolicity in extended thermodynamics of Fermi and Bose gases. (English summary) **2005k:82057**
Ruiz-Montero, M. J. *see* **Brey, J. Javier**
Russo, Giovanni (*with* Teshukov, Vladimir; Chesnokov, Aleksandr Aleksandrovich) A special class of solutions of the kinetic equation of a bubbly fluid. (Russian. Russian summary) **2005k:76134**
— *see also* **Modeling and computational methods for kinetic equations, 2005a:82001** *and* **Filbet, Francis, 2005d:82117**
Saint-Raymond, Laure *see* **Golse, François, 2005f:76003**
Salvarani, F. (*with* Vázquez, Juan Luis) From kinetic systems to diffusion equations. (English summary) (*see* **2005c:00016**)
Santos, Andrés *see* **Garzó, Vicente, 2005b:76115** *and* **Tij, Mohamed, 2005g:76126**
Schmeiser, Christian *see* **Degond, Pierre et al., 2005b:82097**
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Spiga, Giampiero *see* **Groppi, Maria, 2005f:76088**; **Bisi, M. et al., 2005g:76124** *and* **(2005c:00016)**
Struchtrup, Henning (*with* Torrilhon, Manuel) Regularization of Grad's 13 moment equations: derivation and linear analysis. (English summary) **2005a:76142**
— Stable transport equations for rarefied gases at high orders in the Knudsen number. (English summary) **2005f:76089**
Subramanian, Ganesh (*with* Brady, J. F.) A Chapman-Enskog formalism for inertial suspensions. (English summary) **2005c:82070**
Teshukov, Vladimir *see* **Russo, Giovanni et al., 2005k:76134**
Tij, Mohamed (*with* Santos, Andrés) Poiseuille flow in a heated granular gas. (English summary) **2005g:76126**
Torrilhon, Manuel *see* **Struchtrup, Henning, 2005a:76142**
Toscani, Giuseppe *see* **Bisi, M. et al., 2005g:76124**
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Wang, Tong Guang *see* **Niu, X. D. et al., 2005f:82073**
Wang, Xiaohong[1] (*with* Zhang, Hui[1]; Shi, Yin Xue) Existence and structure of solutions to the Smoluchowski equation. (Chinese. English and Chinese summaries)
Wegener, Raimund *see* **Klar, Axel, 2005f:90026**
Xia, Qing *see* **Chen, Wen Bin et al., 2005m:65262**
Xu, Ji-jun (*with* Guo, Rui-qiang; Cui, Guo-zhong) The weak solutions to initial boundary value problem for Boltzmann-Poisson system. (English summary) **2005f:35043**
Yang, Tong (*with* Zhao, Hui-Jiang) A half-space problem for the Boltzmann equation with specular reflection boundary condition. (English summary) **2005m:35037**
— *see also* **Liu, Tai-Ping et al., 2005b:35185** *and* **Chen, Chiun-Chuan et al., 2005m:35039**
Yin, Xun Wu (*with* Zhang, Xian Wen) The spatially homogeneous Fokker-Planck-Boltzmann equation. (Chinese. English and Chinese summaries)
Yu, De Jian (*with* Liu, Xiao Ping[3]) Using an integral operator to solve boundary value problems for an abstract kinetic equation with a first-kind critical parameter. (Chinese. English and Chinese summaries) **2005k:47171**
Yu, Hongjun Existence and exponential decay of global solutions to the Boltzmann equation near Maxwellians. (English summary) **2005m:35038**
Yu, Shih-Hsien *see* **Liu, Tai-Ping et al., 2005b:35185**
Yushkanov, A. A. *see* **Latyshev, Anatoliĭ Vasil'evich, 2005b:76116**
Zhang, Hui[1] *see* **Wang, Xiaohong[1] et al.**
Zhang, Ping Wen *see* **E, Wei-nan et al., 2005d:35210**
Zhang, Xian Wen *see* **Yin, Xun Wu**
Zhao, Hui-Jiang *see* **Yang, Tong, 2005m:35037**
Zhidkov, P. E. On global solutions for the Vlasov-Poisson system. (English summary) **2005a:35042**
— On local smooth solutions for the Vlasov equation with the potential of interactions $\pm r^{-2}$. (English summary) **2005k:35039**
Zwanzig, Robert ★ Nonequilibrium statistical mechanics. **2005d:82001**

Items listed otherwise than by author

Modeling and computational methods for kinetic equations ★ Modeling and computational methods for kinetic equations. **2005a:82001**

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Abul-Magd, A. Y. Non-extensive random matrix theory—a bridge connecting chaotic and regular dynamics. (English summary) **2005f:82109**
Agostini, Luca *see* **Serra, Roberto et al., 2005d:82111**
Almaas, E. (*with* Krapivsky, Paul L.; Redner, Sidney) Statistics of weighted treelike networks. (English summary) **2005k:82086**
Bhattacharjee, Somendra M. *see* **Mukherji, Sutapa, 2005m:82141**
Bunimovich, Leonid A. Walks in rigid environments: symmetry and dynamics. (English and French summaries) **2005c:82078**
— Deterministic walks in random environments. (English summary) **2005f:82110**
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Ergün, Güler (*with* Fyodorov, Yan V.) Level curvature distribution in a model of two uncoupled chaotic subsystems. (English summary) **2005a:82095**
Ferrari, Patrik L. Polynuclear growth on a flat substrate and edge scaling of GOE eigenvalues. (English summary) **2005m:82135**
Figueiredo, Annibal (*with* Gleria, Iram; Matsushita, Raul; Da Silva, Sergio) Lévy flights, autocorrelation, and slow convergence. (English summary) **2005d:82110**
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Ghafari, F. E. *see* **Jafarpour, Farhad H. et al., 2005m:82138**
Gleria, Iram *see* **Figueiredo, Annibal et al., 2005d:82110**
Herrero, Carlos P. Kinetic growth walks on complex networks. (English summary) **2005m:82136**
Imamura, Takashi (*with* Sasamoto, Tomohiro) Fluctuations of the one-dimensional polynuclear growth model with external sources. (English summary) **2005m:82137**
Jafarpour, Farhad H. (*with* Ghafari, F. E.; Masharian, S. R.) Exact shock profile for the ASEP with sublattice-parallel update. (English summary) **2005m:82138**
Kaski, Kimmo *see* **Saramäki, Jari**
Kolomeisky, Anatoly B. *see* **Lakatos, Greg et al., 2005m:82139**
Konno, Norio (*with* Mistuda, K.; Soshi, T.; Yoo, Hyun Jae) Quantum walks and reversible cellular automata. (English summary) **2005f:82111**
Krapivsky, Paul L. *see* **Almaas, E. et al., 2005k:82086**
Lakatos, Greg (*with* Chou, Tom; Kolomeisky, Anatoly B.) Steady-state properties of a totally asymmetric exclusion process with periodic structure. (English summary) **2005m:82139**
Masharian, S. R. *see* **Jafarpour, Farhad H. et al., 2005m:82138**
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van Milligen, B. Ph. *see* **Sánchez Fernández, Luis Raúl et al., 2005m:82142**
Miri, M. F. (*with* Stark, Holger) Modelling light transport in dry foams by a coarse-grained persistent random walk. (English summary) **2005m:82140**
Mistuda, K. *see* **Konno, Norio et al., 2005f:82111**
Mukherji, Sutapa (*with* Bhattacharjee, Somendra M.) Nonequilibrium criticality at shock formation in steady states. (English summary) **2005m:82141**
Rákos, A. (*with* Schütz, Gunter M.) Current distribution and random matrix ensembles for an integrable asymmetric fragmentation process. (English summary) **2005k:82087**
Redner, Sidney *see* **Almaas, E. et al., 2005k:82086**
Sánchez Fernández, Luis Raúl (*with* Carreras, Benjamin A.; van Milligen, B. Ph.) Fluid limit of nonintegrable continuous-time random walks in terms of fractional differential

equations. (English summary) **2005m:82142**
Saramäki, Jari (*with* Kaski, Kimmo) Scale-free networks generated by random walkers. (English summary)
Sasamoto, Tomohiro *see* **Imamura, Takashi, 2005m:82137**
Schütz, Gunter M. *see* **Rákos, A., 2005k:82087**
Serra, Roberto (*with* Villani, Marco; Agostini, Luca) On the dynamics of random Boolean networks with scale-free outgoing connections. (English summary) **2005d:82111**
Soshi, T. *see* **Konno, Norio et al., 2005f:82111**
Stark, Holger *see* **Miri, M. F., 2005m:82140**
Villani, Marco *see* **Serra, Roberto et al., 2005d:82111**
Witte, N. S. Gap probabilities for double intervals in Hermitian random matrix ensembles as τ-functions—spectrum singularity case. (English summary) **2005h:82100**
Yoo, Hyun Jae *see* **Konno, Norio et al., 2005f:82111**
van Zon, R. (*with* Cohen, E. G. D.) Non-equilibrium thermodynamics and fluctuations. (English summary)

Items with secondary classifications in 82C41

Aoyama, Hideaki *see* **Souma, Wataru et al., 2005g:91111**
Barlow, Martin T. Which values of the volume growth and escape time exponent are possible for a graph? (English summary) **2005f:60144**
Betz, Volker (*with* Spohn, Herbert) A central limit theorem for Gibbs measures relative to Brownian motion. (English summary) **2005k:60260**
Chan, Derek Y. C. (*with* Hughes, Barry D.; Leong, Alex S.; Reed, William J.) Stochastically evolving networks. (English summary) **2005a:82096**
Chan, Yao-ban (*with* Guttmann, Anthony J.) Some results for directed lattice walkers in a strip. (English summary) **2005b:60017**
Dembo, Amir (*with* Gantert, Nina; Zeitouni, Ofer) Large deviations for random walk in random environment with holding times. (English summary) **2005i:60087**
Desoutter, V. (*with* Destainville, N.) Flip dynamics in three-dimensional random tilings. (English summary) **2005k:82090**
Destainville, N. *see* **Desoutter, V., 2005k:82090**
Fayolle, Guy (*with* Furtlehner, Cyril) Dynamical windings of random walks and exclusion models. I. Thermodynamic limit in $\mathbb{Z}^2$. (English summary) **2005c:82037**
Fujiwara, Yoshi *see* **Souma, Wataru et al., 2005g:91111**
Furtlehner, Cyril *see* **Fayolle, Guy, 2005c:82037**
Gantert, Nina *see* **Dembo, Amir et al., 2005i:60087**
Gaspard, Pierre Time-reversed dynamical entropy and irreversibility in Markovian random processes. (English summary) **2005h:82071**
Guttmann, Anthony J. *see* **Chan, Yao-ban, 2005b:60017**
Henkel, Malte *see* **Picone, Alan, 2005f:82088**
Hernández-García, Emilio *see* **López, Cristóbal, 2005h:92028**
Hughes, Barry D. *see* **Chan, Derek Y. C. et al., 2005a:82096**
Kostov, Ivan K. (*with* Ponsot, Bénédicte; Serban, Didina) Boundary Liouville theory and 2D quantum gravity. (English summary) **2005f:83073**
Kouritzin, Michael A. (*with* Long, Hongwei; Sun, Wei[3]) Nonlinear filtering for diffusions in random environments. (English summary) **2005a:60161**
Leong, Alex S. *see* **Chan, Derek Y. C. et al., 2005a:82096**
Lesage, Frédéric (*with* Rasmussen, Jørgen) SLE-type growth processes and the Yang-Lee singularity. (English summary) **2005k:81282**
Long, Hongwei *see* **Kouritzin, Michael A. et al., 2005a:60161**
López, Cristóbal (*with* Hernández-García, Emilio) Fluctuations impact on a pattern-forming model of population dynamics with non-local interactions. (English summary) **2005h:92028**
Picone, Alan (*with* Henkel, Malte) Local scale-invariance and ageing in noisy systems. (English summary) **2005f:82088**
Ponsot, Bénédicte *see* **Kostov, Ivan K. et al., 2005f:83073**
Rasmussen, Jørgen *see* **Lesage, Frédéric, 2005k:81282**
Reed, William J. *see* **Chan, Derek Y. C. et al., 2005a:82096**
Sabot, Christophe Ballistic random walks in random environment at low disorder. (English summary) **2005g:60166**
Serban, Didina *see* **Kostov, Ivan K. et al., 2005f:83073**
Skantzos, N. S. *see* **Wemmenhove, B., 2005m:82125**
Souma, Wataru (*with* Fujiwara, Yoshi; Aoyama, Hideaki) Random matrix approach to shareholding networks. (English summary) **2005g:91111**
Spohn, Herbert *see* **Betz, Volker, 2005k:60260**
Sun, Wei[3] *see* **Kouritzin, Michael A. et al., 2005a:60161**
Wemmenhove, B. (*with* Skantzos, N. S.) Slowly evolving random graphs. II. Adaptive geometry in finite-connectivity Hopfield models. (English summary) **2005m:82125**
Zeitouni, Ofer *see* **Dembo, Amir et al., 2005i:60087**

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Blumen, A. *see* **Jasch, F. et al.**
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von Ferber, Ch. *see* **Jasch, F. et al.**
Giménez, M. C. (*with* Nieto, F.; Ramirez-Pastor, A. J.) Thermal percolation for interacting monomers absorbed on square lattices. (English summary) **2005m:82143**
Janssen, Hans-Karl (*with* Täuber, Uwe C.) The field theory approach to percolation processes. (English summary) **2005k:82088**
Jasch, F. (*with* von Ferber, Ch.; Blumen, A.) Dynamical scaling behavior of percolation clusters in scale-free networks. (English summary)
Krapivsky, Paul L. (*with* Derrida, Bernard) Universal properties of growing networks. (English summary)
Nieto, F. *see* **Giménez, M. C. et al., 2005m:82143**
Ramirez-Pastor, A. J. *see* **Giménez, M. C. et al., 2005m:82143**
Täuber, Uwe C. *see* **Janssen, Hans-Karl, 2005k:82088**

Items with secondary classifications in 82C43

Biskup, Marek (*with* Blanchard, Philippe; Chayes, Lincoln; Gandolfo, D.; Krüger, Tyll) Phase transition and critical behavior in a model of organized criticality. (English summary) **2005c:82079**
Blanchard, Philippe *see* **Biskup, Marek et al., 2005c:82079**
Camia, Federico (*with* Newman, Charles M.; Sidoravicius, Vladas) A particular bit of universality: scaling limits of some dependent percolation models. (English summary) **2005d:82047**
Chayes, Lincoln *see* **Biskup, Marek et al., 2005c:82079**
Corso, G. *see* **Soares, R. F. et al., 2005d:86001**
Freitas, J. E. *see* **Soares, R. F. et al., 2005d:86001**
Gandolfo, D. *see* **Biskup, Marek et al., 2005c:82079**
Holroyd, Alexander E. (*with* Liggett, Thomas M.; Romik, Dan) Integrals, partitions, and cellular automata. (English summary) **2005b:60018**
Imamura, Takashi *see* **Sasamoto, Tomohiro, 2005d:82112**
Krüger, Tyll *see* **Biskup, Marek et al., 2005c:82079**
Liggett, Thomas M. *see* **Holroyd, Alexander E. et al., 2005b:60018**
Lucena, L. S. *see* **Soares, R. F. et al., 2005d:86001**
Newman, Charles M. *see* **Camia, Federico et al., 2005d:82047**
Paul, Gerald *see* **Soares, R. F. et al., 2005d:86001**
Romik, Dan *see* **Holroyd, Alexander E. et al., 2005b:60018**
Sasamoto, Tomohiro (*with* Imamura, Takashi) Fluctuations of the one-dimensional polynuclear growth model in half-space. (English summary) **2005d:82112**
Sidoravicius, Vladas *see* **Camia, Federico et al., 2005d:82047**
da Silva, L. R. *see* **Soares, R. F. et al., 2005d:86001**
Soares, R. F. (*with* Çorso, G.; Lucena, L. S.; Freitas, J. E.; da Silva, L. R.; Paul, Gerald; Stanley, H. Eugene) Distribution of shortest paths at percolation threshold: application to oil recovery with multiple wells. (English summary) **2005d:86001**
Stanley, H. Eugene *see* **Soares, R. F. et al., 2005d:86001**

82C44 Dynamics of disordered systems (random Ising systems, etc.)

Biskup, Marek (*with* Blanchard, Philippe; Chayes, Lincoln; Gandolfo, D.; Krüger, Tyll) Phase transition and critical behavior in a model of organized criticality. (English summary) **2005c:82079**
Blanchard, Philippe *see* **Biskup, Marek et al., 2005c:82079**
Böcker, Stefan (*with* Kirsch, Werner; Stollmann, Peter) Spectral theory for nonstationary random potentials. **2005k:82089**
Brassart, Matthieu The Boltzmann equation as limit of a Schrödinger equation with random potential. (English summary) **2005f:82112**
Chan, Derek Y. C. (*with* Hughes, Barry D.; Leong, Alex S.; Reed, William J.) Stochastically evolving networks. (English summary) **2005a:82096**
Chayes, Lincoln *see* **Biskup, Marek et al., 2005c:82079**
Cugliandolo, Leticia F. *see* **Semerjian, Guilhem et al.**
Dean, David S. (*with* Drummond, I. T.; Horgan, R. R.; Lefèvre, A.) Perturbation theory for the effective diffusion constant in a medium of random scatterers. (English summary) **2005f:82113**
Desoutter, V. (*with* Destainville, N.) Flip dynamics in three-dimensional random tilings. (English summary) **2005k:82090**
Destainville, N. *see* **Desoutter, V., 2005k:82090**
Drummond, I. T. *see* **Dean, David S. et al., 2005f:82113**
Duras, M. M. Discrete Hessians in study of quantum statistical systems: complex Ginibre ensemble. (English summary) (*see* **2005c:81006**)
Forrester, Peter J. *see* **Nagao, Taro, 2005e:82104**
Gandolfo, D. *see* **Biskup, Marek et al., 2005c:82079**
Goldman, Daniel I. *see* **Hu, Shaowen et al., 2005e:82102**
Grunewald, Natalie ★ Mathematische Analyse einer Stick-Slip-Bewegung in zufälligem Medium. (German) [Mathematical analysis of a stick-slip motion in a random medium] **2005e:82101**
Gunaratne, Gemunu H. *see* **Hu, Shaowen et al., 2005e:82102**
Harris, R. J. (*with* Stinchcombe, R. B.) Disordered asymmetric simple exclusion process: mean-field treatment. (English summary) **2005j:82073**
Hoffman, David K. *see* **Hu, Shaowen et al., 2005e:82102**
Horgan, R. R. *see* **Dean, David S. et al., 2005f:82113**
Hu, Shaowen (*with* Goldman, Daniel I.; Kouri, Donald J.; Hoffman, David K.; Swinney, Harry L.; Gunaratne, Gemunu H.) Stages of relaxation of patterns and the role of stochasticity in the final stage. (English summary) **2005e:82102**
Hughes, Barry D. *see* **Chan, Derek Y. C. et al., 2005a:82096**
Imamura, Takashi *see* **Sasamoto, Tomohiro, 2005d:82112**
Jordan, Andrew N. (*with* Sukhorukov, Eugene V.; Pilgram, Sebastian) Fluctuation statistics in networks: a stochastic path integral approach. (English summary) **2005k:82091**
Kirsch, Werner (*with* Lenoble, O.; Pastur, Leonid Andreevich) On the Mott formula for the ac conductivity and binary correlators in the strong localization regime of disordered systems. (English summary) **2005c:82080**
— *see also* **Böcker, Stefan et al., 2005k:82089**
Komorowski, Tomasz (*with* Olla, Stefano) On mobility and Einstein relation for tracers in time-mixing random environments. (English summary) **2005k:82092**
Kouri, Donald J. *see* **Hu, Shaowen et al., 2005e:82102**
Krüger, Tyll *see* **Biskup, Marek et al., 2005c:82079**
Lebowitz, Joel L. (*with* Pastur, Leonid Andreevich) A random matrix model of relaxation. (English summary) **2005e:82103**
Lefèvre, A. *see* **Dean, David S. et al., 2005f:82113**
Lenoble, O. *see* **Kirsch, Werner et al., 2005c:82080**
Leong, Alex S. *see* **Chan, Derek Y. C. et al., 2005a:82096**
Leshakov, O. È. (*with* Loginov, V. M.) Coagulation of particles in a stochastic medium. (Russian. Russian summary) **2005a:82097**
Liang, Jin-Rong *see* **Qiu, Wei-Yuan et al., 2005h:82101**
Loginov, V. M. *see* **Leshakov, O. È., 2005a:82097**
Montanari, Andrea *see* **Semerjian, Guilhem et al.**
Nagao, Taro (*with* Forrester, Peter J.) Dynamical correlations for circular ensembles of random matrices. (English summary) **2005e:82104**

Olla, Stefano *see* **Komorowski, Tomasz**, 2005k:82092
Pastur, Leonid Andreevich *see* **Kirsch, Werner et al.**, 2005c:82080 *and* **Lebowitz, Joel L.**, 2005e:82103
Pilgram, Sebastian *see* **Jordan, Andrew N. et al.**, 2005k:82091
Qiu, Wei-Yuan (*with* Ren, Fu-Yao; Xu, Yun[3]; Liang, Jin-Rong) Stretched Gaussian asymptotic behavior for fractional Giona-Roman equation on biased heterogeneous fractal structure in external force fields. (English summary) **2005h:82101**
Reed, William J. *see* **Chan, Derek Y. C. et al.**, 2005a:82096
Ren, Fu-Yao *see* **Qiu, Wei-Yuan et al.**, 2005h:82101
Sasamoto, Tomohiro (*with* Imamura, Takashi) Fluctuations of the one-dimensional polynuclear growth model in half-space. (English summary) **2005d:82112**
Semerjian, Guilhem (*with* Cugliandolo, Leticia F.; Montanari, Andrea) On the stochastic dynamics of disordered spin models. (English summary)
Stinchcombe, R. B. *see* **Harris, R. J.**, 2005j:82073
Stollmann, Peter *see* **Böcker, Stefan et al.**, 2005k:82089
Sukhorukov, Eugene V. *see* **Jordan, Andrew N. et al.**, 2005k:82091
Swinney, Harry L. *see* **Hu, Shaowen et al.**, 2005e:82102
Xu, Yun[3] *see* **Qiu, Wei-Yuan et al.**, 2005h:82101
Zhizhina, E. A. Spectral analysis of a one-dimensional stochastic Ising model with a random potential: asymptotics of an autocorrelation function. (Russian. Russian summary) **2005e:82105**

Items with secondary classifications in 82C44

Aizenman, Michael *see* **Ruzmaikina, Anastasia**, 2005j:60105
Albert, Réka *see* **Barabási, Albert-László**
Barabási, Albert-László (*with* Albert, Réka) Emergence of scaling in random networks. (English summary)
Ben Arous, Gérard (*with* Sortais, Michel) Large deviations in the Langevin dynamics of a short-range spin glass. (English summary) **2005d:60039**
Bray, Alan J. *see* **Gonos, Panos**, 2005h:82077
Bunimovich, Leonid A. Walks in rigid environments: symmetry and dynamics. (English and French summaries) **2005c:82078**
— Deterministic walks in random environments. (English summary) **2005f:82110**
Chafaï, Djalil Glauber versus Kawasaki for spectral gap and logarithmic Sobolev inequalities of some unbounded conservative spin systems. (English summary) **2005b:60253**
Coolen, A. C. C. ★ The mathematical theory of minority games. **2005k:91001**
Dembo, Amir (*with* Gantert, Nina; Zeitouni, Ofer) Large deviations for random walk in random environment with holding times. (English summary) **2005i:60087**
Díaz-Sánchez, A. (*with* Pérez-Garrido, Antonio) Relaxation properties of $(1+1)$-dimensional driven interfaces in disordered media. (English summary) **2005e:82078**
Gantert, Nina *see* **Dembo, Amir et al.**, 2005i:60087
Gonos, Panos (*with* Bray, Alan J.) Persistence in systems with conserved order parameter. (English summary) **2005h:82077**
Herrero, Carlos P. Kinetic growth walks on complex networks. (English summary) **2005m:82136**
Hetman, Paulina Survival probability approach to the relaxation of a macroscopic system in the defect-diffusion framework. (English summary) **2005m:60114**
Katori, Makoto (*with* Tanemura, Hideki) Symmetry of matrix-valued stochastic processes and noncolliding diffusion particle systems. (English summary) **2005g:82099**
Konik, Robert M. Kondo-Fano resonances in quantum dots: results from the Bethe ansatz. (English summary) **2005h:82062**
Kouritzin, Michael A. (*with* Long, Hongwei; Sun, Wei[3]) Nonlinear filtering for diffusions in random environments. (English summary) **2005a:60161**
Le Doussal, Pierre *see* **Monthus, Cécile**, 2005d:82094
Long, Hongwei *see* **Kouritzin, Michael A. et al.**, 2005a:60161
Monthus, Cécile (*with* Le Doussal, Pierre) Energy dynamics in the Sinai model. (English summary) **2005d:82094**
Pereira, Emmanuel On the relaxation properties of stochastic Ginzburg-Landau type models. (English summary) **2005c:82069**
Pérez-Garrido, Antonio *see* **Díaz-Sánchez, A.**, 2005e:82078
Prähofer, Michael (*with* Spohn, Herbert) Exact scaling functions for one-dimensional stationary KPZ growth. (English summary) **2005d:82097**
Ross, John[1] *see* **Vlad, Marcel O. et al.**, 2005b:82070
Ruzmaikina, Anastasia (*with* Aizenman, Michael) Characterization of invariant measures at the leading edge for competing particle systems. (English summary) **2005j:60105**
Skantzos, N. S. *see* **Wemmenhove, B.**, 2005m:82125
Sortais, Michel *see* **Ben Arous, Gérard**, 2005d:60039
Spohn, Herbert *see* **Prähofer, Michael**, 2005d:82097
Sun, Wei[3] *see* **Kouritzin, Michael A. et al.**, 2005a:60161
Tanemura, Hideki *see* **Katori, Makoto**, 2005g:82099
Toom, André Non-ergodicity in a 1-D particle process with variable length. (English summary) **2005g:82091**
Velarde, Manuel G. *see* **Vlad, Marcel O. et al.**, 2005b:82070
Vlad, Marcel O. (*with* Velarde, Manuel G.; Ross, John[1]) Analogies between colored Lévy noise and random channel approach to disordered kinetics. (English summary) **2005b:82070**
Wemmenhove, B. (*with* Skantzos, N. S.) Slowly evolving random graphs. II. Adaptive geometry in finite-connectivity Hopfield models. (English summary) **2005m:82125**
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Zeitouni, Ofer *see* **Dembo, Amir et al.**, 2005i:60087

82C70 Transport processes

Anton, Lucian (*with* Bray, Alan J.) Approach to asymptotic behaviour in the dynamics of the trapping reaction. (English summary) **2005f:82114**
Artuso, Roberto (*with* Cristadoro, Giampaolo) Periodic orbit theory of strongly anomalous transport. (English summary) **2005c:82081**
— (*with* Cristadoro, Giampaolo) Anomalous deterministic transport. (English summary) **2005m:82144**
Astillero, Antonio *see* **Garzó, Vicente**, 2005k:82095
Atanassov, Emanouil I. *see* **Nedjalkov, M. et al.**, 2005g:82121
Bakunin, O. G. Non-local velocity distribution function and one-flight approximation. (English summary) **2005f:82115**
Balabekov, O. S. *see* **Muratov, A. S. et al.**, 2005c:82083
Ben Abdallah, Naoufel (*with* Chaker, Hédia) Diffusion induced by grain-boundaries: a SHE model. (English summary) **2005g:82120**
— (*with* Méhats, Florian; Pinaud, Olivier) Adiabatic approximation of the Schrödinger-Poisson system with a partial confinement. (English summary) **2005k:82093**
Biler, Piotr (*with* Dolbreault, Jean; Esteban, Maria J.; Markowich, Peter A.; Nadzieja, Tadeusz) Steady states for Streater's energy-transport models of self-gravitating particles. (English summary) **2005m:82145**
Bray, Alan J. *see* **Anton, Lucian**, 2005f:82114
Buttà, Paolo (*with* Caglioti, Emanuele; Marchioro, Carlo) On the violation of Ohm's law for bounded interactions: a one dimensional system. (English summary) **2005h:82102**
Caglioti, Emanuele *see* **Buttà, Paolo et al.**, 2005h:82102
Chaker, Hédia *see* **Ben Abdallah, Naoufel**, 2005g:82120
Chernukha, O. Yu. Diffusion processes in a three-dimensional stochastically inhomogeneous two-phase half-space with spherical inclusions. (Ukrainian. English, Russian and Ukrainian summaries) **2005a:82098**
Cristadoro, Giampaolo *see* **Artuso, Roberto**, 2005c:82081 *and* **2005m:82144**
Dolbreault, Jean *see* **Biler, Piotr et al.**, 2005m:82145
Elgart, Alexander (*with* Schlein, Benjamin) Adiabatic charge transport and the Kubo formula for Landau-type Hamiltonians. (English summary) **2005e:82106**
Eliazar, Iddo (*with* Klafter, Joseph) Spatial gliding, temporal trapping, and anomalous transport. (English summary) **2005k:82094**
Escobedo, Miguel (*with* Laurençot, Philippe; Mischler, Stéphane) Fast reaction limit of the discrete diffusive coagulation-fragmentation equation. (English summary) **2005h:82103**
Esteban, Maria J. *see* **Biler, Piotr et al.**, 2005m:82145
Fellner, Klemens (*with* Neumann, Lukas; Schmeiser, Christian) Convergence to global equilibrium for spatially inhomogeneous kinetic models of non-micro-reversible processes. (English summary) **2005f:82116**
Garzó, Vicente (*with* Astillero, Antonio) Transport coefficients for inelastic Maxwell mixtures. (English summary) **2005k:82095**
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Guerriero, Gabriele Exact steady solution to a nonlinear integral equation of the particle transport theory. (English summary) (*see* **2005c:00016**)
Heinsalu, E. (*with* Tammelo, Risto; Örd, Teet) Correlation between diffusion and coherence in Brownian motion on a tilted periodic potential. (English summary) **2005d:82113**
Jourdain, Benjamin Uniqueness via probabilistic interpretation for the discrete coagulation fragmentation equation. (English summary) **2005k:82096**
Kefi, Jihène The Schrödinger with variable mass model: mathematical analysis and semi-classical limit. (English summary) **2005d:82114**
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Klages, R. *see* **Korabel, N.**, 2005c:82082
Korabel, N. (*with* Klages, R.) Fractality of deterministic diffusion in the nonhyperbolic climbing sine map. (English summary) **2005c:82082**
Kosina, H. *see* **Nedjalkov, M. et al.**, 2005g:82121 *and* **Ringhofer, Christian et al.**, 2005m:82146
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Méhats, Florian *see* **Ben Abdallah, Naoufel et al.**, 2005k:82093
Metz, Volker The Laplacian of the Hany fractal. (English and Arabic summaries) **2005d:82115**
Metzler, Ralf (*with* Klafter, Joseph) The restaurant at the end of the random walk: recent developments in the description of anomalous transport by fractional dynamics. (English summary)
Mischler, Stéphane *see* **Escobedo, Miguel et al.**, 2005h:82103
Mukherji, Sutapa Driven diffusive system with non-local perturbations. (English summary) **2005a:82099**
Muratov, A. S. (*with* Myrzakhmetova, B. Sh.; Balabekov, O. S.) Peculiarities of the derivation of nonlocal transport equations in nonlinear media. (Russian) **2005c:82083**
Myrzakhmetova, B. Sh. *see* **Muratov, A. S. et al.**, 2005c:82083
Nadzieja, Tadeusz *see* **Biler, Piotr et al.**, 2005m:82145
Nedjalkov, M. (*with* Atanassov, Emanouil I.; Kosina, H.; Selberherr, S.) Operator-split method for variance reduction in stochastic solutions of the Wigner equation. (English summary) **2005g:82121**
— *see also* **Ringhofer, Christian et al.**, 2005m:82146
Neumann, Lukas *see* **Fellner, Klemens et al.**, 2005f:82116
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Orlov, Yu. N. On the derivation of equations of hydrodynamics in the framework of the functional Bogolyubov conjecture. (Russian. Russian summary) **2005e:82107**
Pandolfi Bianchi, M. (*with* Soares, A. J.) Kinetic approach to transport properties of a reacting gas. (English summary) (*see* **2005c:00016**)
Pinaud, Olivier Adiabatic approximation of the Schrödinger-Poisson system with a partial confinement: the stationary case. (English summary) **2005e:82108**
— *see also* **Ben Abdallah, Naoufel et al.**, 2005k:82093
Prokhorov, I. V. (*with* Yarovenko, I. P.) A boundary value problem of transport theory in a multilayer medium with generalized conjugation conditions. (Russian. Russian summary) **2005b:82078**
Qiu, Wei-Yuan *see* **Zou, Fu et al.**, 2005b:82081
Ren, Fu-Yao *see* **Zou, Fu et al.**, 2005b:82081
Ringhofer, Christian (*with* Nedjalkov, M.; Kosina, H.; Selberherr, S.) Semiclassical approximation of electron-phonon scattering beyond Fermi's golden rule. (English

summary) **2005m:82146**

Salvarani, F. (*with* Vázquez, Juan Luis) From kinetic systems to diffusion equations. (English summary) (*see* **2005c:00016**)

Sanchez-Palencia, Laurent Directed transport of Brownian particles in a double symmetric potential. (English summary) **2005j:82074**

Schlein, Benjamin *see* **Elgart, Alexander, 2005e:82106**

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Selberherr, S. *see* **Nedjalkov, M. et al., 2005g:82121** *and* **Ringhofer, Christian et al., 2005m:82146**

Soares, A. J. *see* **Pandolfi Bianchi, M., (2005c:00016)**

Suzuki, Takashi[1] Energy transport problem for self-gravitating particles. (English summary) **2005b:82079**

Tammelo, Risto *see* **Heinsalu, E. et al., 2005d:82113**

Tirskiĭ, G. A. *see* **Zhdanov, V. M., 2005a:82100**

Turban, L. Reaction-diffusion with a time-dependent reaction rate: the single-species diffusion-annihilation process. (English summary) **2005d:82116**

Vázquez, Juan Luis *see* **Salvarani, F., (2005c:00016)**

Viscardy, S. (*with* Gaspard, Pierre) Viscosity in the escape-rate formalism. (English summary) **2005b:82080**

Yarovenko, I. P. *see* **Prokhorov, I. V., 2005b:82078**

Zhdanov, V. M. (*with* Tirskiĭ, G. A.) Application of the moment method in deriving gas and plasma transport equations with transport coefficients in higher approximations. (Russian. Russian summary) **2005a:82100**

Zou, Fu (*with* Ren, Fu-Yao; Qiu, Wei-Yuan) Fractional diffusion equations involving external forces in the higher dimensional case. (English summary) **2005b:82081**

Items with secondary classifications in 82C70

Abdulle, Assyr (*with* Attinger, Sabine) Homogenization method for transport of DNA particles in heterogeneous arrays. (English summary) **2005e:92022**

Adler, P. M. (*with* Malevich, A. E.; Mityushev, V.) Macroscopic diffusion on rough surfaces. (English summary) **2005f:76096**

Alam, Meheboob (*with* Luding, Stefan) Energy nonequipartition, rheology, and microstructure in sheared bidisperse granular mixtures. (English summary)

Altland, Alexander *see* **Gurarie, Victor, 2005f:82133**

Arlotti, Luisa (*with* Banasiak, Jacek) Strictly substochastic semigroups with application to conservative and shattering solutions to fragmentation equations with mass loss. (English summary) **2005c:47053**

Attinger, Sabine *see* **Abdulle, Assyr, 2005e:92022**

Avdonin, S. A. (*with* Dmitrieva, L. A.; Kuperin, Yu. A.; Sartan, V. V.) Solvable model of spin-dependent transport through a finite array of quantum dots. (English summary) **2005m:82157**

Bal, Guillaume (*with* Verástegui, Ramón) Time reversal in changing environments. (English summary) **2005h:35378**

Banach, Zbigniew (*with* Larecki, Wieslaw) Nine-moment phonon hydrodynamics based on the modified Grad-type approach: formulation. (English summary) **2005g:82073**

Banasiak, Jacek *see* **Arlotti, Luisa, 2005c:47053**

Barletti, Luigi *see* **Manzini, Chiara, 2005h:35294**

Belleni-Morante, A. (*with* Monaco, Roberto; Riganti, R.; Salvarani, F.) Inverse problems in photon transport. I. Determination of physical and geometrical features of an interstellar cloud. (English summary) **2005g:85003**

— (*with* Riganti, R.) Inverse problems in photon transport. II. Features of a source inside an interstellar cloud. (English summary) **2005g:85004**

— (*with* Mugelli, Francesco) Identification of the boundary surface of an interstellar cloud from a measurement of the photon far-field. (English summary) **2005c:85005**

Ben Abdallah, Naoufel (*with* Tang, Shaoqiang) On hybrid quantum-classical transport models. (English summary) **2005e:82117**

Bok, Jiří (*with* Čápek, Vladislav) Langevin approach to the Porto system. (English summary) **2005j:82064**

Bonilla, Luis L. *see* **Goudon, Thierry et al., 2005e:82118**

Bray, Alan J. (*with* Gonos, Panos) Survival of a diffusing particle in a transverse shear flow: a first-passage problem with continuously varying persistence exponent. (English summary)

Brooks, Eugene D., III *see* **Daffin, Frank et al., 2005j:85006**

Bürger, Raimund (*with* Karlsen, Kenneth H.; Towers, John D.) Closed-form and finite difference solutions to a population balance model of grinding mills. (English summary) **2005m:80011**

Cañizo, José A. (*with* López, José Luis; Muñoz-Nieto, Juan José) Global L^1 theory and regularity for the 3D nonlinear Wigner-Poisson-Fokker-Planck system. (English summary) **2005b:82063**

Čápek, Vladislav *see* **Bok, Jiří, 2005j:82064**

Carreras, Benjamin A. *see* **Sánchez Fernández, Luis Raúl et al., 2005m:82142**

Chvosta, Petr (*with* Reineker, Peter) Analysis of stochastic resonances. (English summary) **2005b:82064**

Daffin, Frank (*with* McKinley, Michael Scott; Brooks, Eugene D., III; Szöke, Abraham) An evaluation of the difference formulation for photon transport in a two level system. (English summary) **2005j:85006**

Debbasch, F. (*with* Moreau, Michel) Diffusion on a curved surface: a geometrical approach. (English summary) **2005i:60151**

Ding, Ning[2] *see* **Liu, Quan**[1], **2005k:65052**

Dmitrieva, L. A. *see* **Avdonin, S. A. et al., 2005m:82157**

Escudero, Carlos[2] Field theory of propagating reaction-diffusion fronts. (English summary) **2005j:35119**

Fröhlich, Jürg (*with* Merkli, Marco; Ueltschi, Daniel) Dissipative transport: thermal contacts and tunnelling junctions. (English summary) **2005a:82062**

Frosali, Giovanni (*with* van der Mee, Cornelis V. M.; Mugelli, Francesco) A characterization theorem for the evolution semigroup generated by the sum of two unbounded operators. (English summary) **2005f:47099**

Gallego, Samy (*with* Méhats, Florian) Numerical approximation of a quantum drift-diffusion model. (English and French summaries)

Gaspard, Pierre *see* **Viscardy, S., 2005b:82077**

Gawędzki, Krzysztof (*with* Horvai, Péter) Sticky behavior of fluid particles in the compressible Kraichnan model. (English summary) **2005g:76070**

Gonos, Panos *see* **Bray, Alan J.**

Goudon, Thierry (*with* Sanchez Romero, Oscar; Soler, Juan; Bonilla, Luis L.) Low-field limit for a nonlinear discrete drift-diffusion model arising in semiconductor superlattices theory. (English summary) **2005e:82118**

Günther, Marco (*with* Klar, Axel; Materne, Thorsten; Wegener, Raimund) Multivalued fundamental diagrams and stop and go waves for continuum traffic flow equations. (English summary) **2005a:90029**

Gurarie, Victor (*with* Altland, Alexander) Magnon localization in Mattis glass. (English summary) **2005f:82133**

Hardelauf, H. *see* **Suciu, N. et al.**

Horvai, Péter *see* **Gawędzki, Krzysztof, 2005g:76070**

Jeribi, Aref (*with* Megdiche, Hatem; Moalla, Nedra) On a transport operator arising in growing cell populations. II. Cauchy problem. (English summary)

Junk, Michael Maximum entropy moment problems and extended Euler equations. (English summary) **2005c:35193**

Karlsen, Kenneth H. *see* **Bürger, Raimund et al., 2005m:80011**

Klar, Axel *see* **Günther, Marco et al., 2005a:90029**

Komorowski, Tomasz (*with* Peszat, Szymon) Transport of a passive tracer by an irregular velocity field. (English summary) **2005b:76070**

Kondrat'ev, Yu. G. (*with* Rebenko, A. L.; Röckner, Michael) On diffusion dynamics for continuous systems with singular superstable interaction. (English summary) **2005e:82077**

Konik, Robert M. Kondo-Fano resonances in quantum dots: results from the Bethe ansatz. (English summary) **2005h:82062**

Kuperin, Yu. A. *see* **Avdonin, S. A. et al., 2005m:82157**

Kwok, Sau Fa *see* **Lenzi, E. K. et al.**

Lahrech, Samir Estimation a priori pour un problème inverse de la théorie de transport. (French summary) [A priori estimate for an inverse problem of transport theory]

Larecki, Wieslaw *see* **Banach, Zbigniew, 2005g:82073**

Lenzi, E. K. (*with* Mendes, Renio S.; Kwok, Sau Fa; da Silva, L. R.; Lucena, L. S.) Solutions for a fractional nonlinear diffusion equation: spatial time dependent diffusion coefficient and external forces. (English summary)

Liu, Quan[1] (*with* Ding, Ning[2]) A practical numerical method for Fermi-Dirac integrals and its applications. (Chinese. English summary) **2005k:65052**

López, José Luis *see* **Cañizo, José A. et al., 2005b:82063**

Lucena, L. S. *see* **Lenzi, E. K. et al.**

Luding, Stefan *see* **Alam, Meheboob**

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Malevich, A. E. *see* **Adler, P. M. et al., 2005f:76096**

Mal'tsev, A. Ya. Quasiperiodic functions theory and the superlattice potentials for a two-dimensional electron gas. (English summary) **2005a:82114**

Manzini, Chiara (*with* Barletti, Luigi) An analysis of the Wigner-Poisson problem with inflow boundary conditions. (English summary) **2005h:35294**

Martin, Olga *see* **Mastorakis, Nikos**

Mastorakis, Nikos (*with* Martin, Olga) On the solution of integral-differential equations via the Rayleigh-Ritz finite elements method: stationary transport equation. (English summary)

Materne, Thorsten *see* **Günther, Marco et al., 2005a:90029**

Matus, Petr P. *see* **Mozolevskiĭ, I. E. et al., (2005c:65004)**

McDowall, Stephen R. An inverse problem for the transport equation in the presence of a Riemannian metric. (English summary) **2005h:58029**

McKinley, Michael Scott *see* **Daffin, Frank et al., 2005j:85006**

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Megdiche, Hatem *see* **Jeribi, Aref et al.**

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Monaco, Roberto *see* **Belleni-Morante, A. et al., 2005g:85003**

Moreau, Michel *see* **Debbasch, F., 2005i:60151**

Mozolevskiĭ, I. E. (*with* Matus, Petr P.; Malafei, D. A.) The Fokker-Planck approximation of boundary value problems for the straight-ahead Boltzmann transport equation. (English summary) (*see* **2005c:65004**)

Mugelli, Francesco *see* **Belleni-Morante, A., 2005c:85005** *and* **Frosali, Giovanni et al., 2005f:47099**

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Naber, Mark Distributed order fractional sub-diffusion. (English summary) **2005c:60105**

Naboko, Sergei N. (*with* Romanov, Roman) Spectral singularities and asymptotics of contractive semigroups. I. (English summary) **2005c:47058**

Nazarov, V. G. Approximation of the absorption coefficient for the radiative transfer equation on a given energy interval. (Russian. Russian summary) **2005m:85003**

Panfilov, M. (*with* Panfilova, I.) Phenomenological meniscus model for two-phase flows in porous media. (English summary) **2005j:76086**

Panfilova, I. *see* **Panfilov, M., 2005j:76086**

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limit of nonintegrable continuous-time random walks in terms of fractional differential equations. (English summary) **2005m:82142**

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Soler, Juan *see* **Goudon, Thierry et al., 2005e:82118**

Suciu, N. (*with* Vamoş, C.; Hardelauf, H.; Vanderborght, J.; Vereecken, H.) Numerical modeling of large scale transport of contaminant solutes using the global random walk algorithm. (English summary)

Szöke, Abraham *see* **Daffin, Frank et al., 2005j:85006**

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Vanderborght, J. *see* **Suciu, N. et al.**

Verástegui, Ramón *see* **Bal, Guillaume, 2005h:35378**

Vereecken, H. *see* **Suciu, N. et al.**

Viscardy, S. (*with* Gaspard, Pierre) Viscosity in molecular dynamics with periodic boundary conditions. (English summary) **2005b:82077**

Vollmer, Jürgen Chaos, spatial extension, transport, and non-equilibrium thermodynamics. (English summary) **2005a:37016**

Wang, Wen Long (*with* Xu, Gen Qi) Asymptotic spectrum and its accumulation points of a transport operator in a slab geometry with generalized boundary conditions. (Chinese. English and Chinese summaries)

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Xu, Gen Qi *see* **Wang, Wen Long**

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Abramov, B. D. Criteria for the positive solvability of nonlinear equations of Askew's coarse-mesh method. (Russian. English and Russian summaries)

Bao, Weizhu (*with* Du, Qiang) Computing the ground state solution of Bose-Einstein condensates by a normalized gradient flow. (English summary) **2005f:82117**

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Campbell, Timothy J. *see* **Nakano, Aiichiro et al., (2005c:81001)**

Cerimele, M. M. (*with* Chiofalo, M. L.; Pistella, Francesca) From coherent to incoherent dynamical behaviour of quantum atomic gases in periodic potentials. (English summary)

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D'Orazio, Annunziata (*with* Succi, Sauro) Boundary conditions for thermal lattice Boltzmann simulations. (English summary) (*see* **2005c:00014**)

Dreyer, Wolfgang (*with* Herrmann, Michael; Kunik, Matthias) Kinetic solutions of the Boltzmann-Peierls equation and its moment systems. (English summary) **2005f:82120**

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van Erp, Titus S. (*with* Bolhuis, Peter G.) Elaborating transition interface sampling methods. (English summary) **2005k:82097**

Filbet, Francis (*with* Russo, Giovanni) Accurate numerical methods for the Boltzmann equation. (English summary) **2005d:82117**

— (*with* Pareschi, Lorenzo; Toscani, Giuseppe) Accurate numerical methods for the collisional motion of (heated) granular flows. (English summary) **2005g:82122**

Finocchi, Fabio (*with* Goniakowski, Jacek; Gonze, Xavier; Pisani, Cesare) An introduction to first-principles simulations of extended systems. (*see* **2005c:81001**)

Fish, Jacob (*with* Chen, Wen[4]) Discrete-to-continuum bridging based on multigrid principles. (English summary) **2005d:82118**

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Ivanchenko, M. V. (*with* Kanakov, O. I.; Shalfeev, V. D.; Flach, Sergej) Discrete breathers in transient processes and thermal equilibrium. (English summary) **2005e:82110**

Ivanov, Mikhail Samuilovich (*with* Korotchenko, M. A.; Mikhailov, Gennadii A.; Rogazinskiĭ, S. V.) New Monte Carlo global weight method for the approximate solution of the nonlinear Boltzmann equation. (English summary) **2005f:82121**

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Kolodko, A. (*with* Sabelfeld, Karl K.) Stochastic particle methods for Smoluchowski coagulation equation: variance reduction and error estimations. (English summary) **2005a:82102**

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Lee, Hwee Kuan (*with* Okabe, Yutaka) Nonequilibrium reweighting on the driven diffusive lattice gas. (English summary)

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Li, Ju[2] *see* **Kevrekidis, Ioannis G. et al., 2005e:82111**

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Marinescu-Mazilu, Dorin (*with* Grünfeld, C. P.) Stochastic algorithms solving nonlinear Boltzmann models. (English summary) (*see* **2005b:00022**)

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Mikhailov, Gennadii A. (*with* Rogazinskiĭ, S. V.) Weighted Monte Carlo methods for approximate solution of nonlinear Boltsmann equation. (English summary) (*see* **2005i:65006**)

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Mouhot, Clément (*with* Pareschi, Lorenzo) Fast methods for the Boltzmann collision integral. (English and French summaries) **2005b:82087**

Nakano, Aiichiro (*with* Campbell, Timothy J.; Kalia, Rajiv K.; Kodiyalam, Sanjay; Ogata, Shuji; Shimojo, Fuyuki; Su, Xiaotao; Vashishta, Priya) Scalable multiresolution algorithms for classical and quantum molecular dynamics simulations of nanosystems. (*see* **2005c:81001**)

— *see also* **Shimojo, Fuyuki et al.**

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Poloskov, Igor E. CAS Mathematica in random studies. (English summary) **2005f:82124**

Portolan, Stefano (*with* Iotti, Rita C.; Rossi, Fausto) Weighted simulation of steady-state transport within the standard Monte Carlo paradigm. (English summary)

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Shimojo, Fuyuki (*with* Kalia, Rajiv K.; Nakano, Aiichiro; Vashishta, Priya) Embedded divide-and-conquer algorithm on hierarchical real-space grids: parallel molecular dynamics simulation based on linear-scaling density functional theory. (English summary)

— *see also* **Nakano, Aiichiro et al., (2005c:81001)**

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Yepez, Jeffrey *see* **Vahala, George et al.**, 2005c:82085
Yip, Sidney *see* **Kevrekidis, Ioannis G. et al.**, 2005e:82111
Żołek, Norbert S. *see* **Waniewski, Jacek et al.**

Items with secondary classifications in 82C80

Abdellaoui, Marouane (*with* El Jaï, Abdelhak) Modélisation par automates cellulaires d'un système thermoélastique. (French summary) [Cellular automaton model for a thermoelastic system] **2005b:74034**
Adams, Nikolaus A. *see* **Czerwinska, Justyna**, (2005d:65007)
Ahmad, P. *see* **Khan, K. M. et al.**
Aitken, George J. M. Long and short-term correlation properties of computer-generated fractional Gaussian noise. (English summary)
Amin, Masood *see* **Khan, K. M. et al.**
Aoki, Kazuo[2] (*with* Kosuge, Shingo) Finite-difference methods for the Boltzmann equation for binary gas mixtures. (English summary) **2005i:65161**
Asikainen, Joonas *see* **Werder, Thomas et al.**, (2005d:65007)
Bao, Weizhu Ground states and dynamics of multicomponent Bose-Einstein condensates. (English summary) **2005d:82069**
Ben Abdallah, Naoufel (*with* Martínez-Gamba, Irene; Klar, Axel) The Milne problem for high field kinetic equations. (English summary) **2005g:82050**
Boghosian, Bruce M. (*with* Love, Peter J.; Yepez, Jeffrey) Entropic lattice Boltzmann model for Burgers's equation. (English summary) **2005d:76030**
— *see also* **Love, Peter J. et al.**, 2005c:76073
Bouchut, François Entropy satisfying flux vector splittings and kinetic BGK models. (English summary) **2005e:65129**
Brown, Peter N. (*with* Lee, Barry; Manteuffel, Thomas A.) A moment-parity multigrid preconditioner for the first-order system least-squares formulation of the Boltzmann transport equation. (English summary) **2005f:65168**
Caracciolo, Sergio (*with* Gambassi, Andrea; Gubinelli, Massimiliano; Pelissetto, Andrea) Finite-size scaling in the driven lattice gas. (English summary)
Caraffini, G. L. *see* **Ertler, C. et al.**
Care, C. M. *see* **Dupin, M. M. et al.**, 2005b:76102
Chang, Shu-Ming (*with* Lin, Chang-Shou; Lin, Tai-Chia; Lin, Wen Wei) Segregated nodal domains of two-dimensional multispecies Bose-Einstein condensates. (English summary) **2005g:82074**
Chin, Siu A. Structure of positive decompositions of exponential operators. (English summary) **2005m:65115**
Choe, Geon Ho ★ Computational ergodic theory. **2005m:37206**
Chowdhury, Indranil (*with* Jandhyala, Vikram) Single level multipole expansions and operators for potentials of the form $r^{-\lambda}$. (English summary) **2005j:70020**
Coveney, Peter V. *see* **Harting, Jens et al.**, 2005b:76103
Czerwinska, Justyna (*with* Adams, Nikolaus A.) Dissipative particle dynamics for modeling complex fluidics. (English summary) (*see* **2005d:65007**)
D'Azevedo, E. F. (*with* Messer, B.; Mezzacappa, A.; Liebendörfer, M.) An ADI-like preconditioner for Boltzmann transport. (English summary) **2005j:65029**
Del Moral, Pierre ★ Feynman-Kac formulae. **2005f:60003**
Deloubrière, O. *see* **Hilhorst, H. J. et al.**
Denniston, Colin D. (*with* Marenduzzo, D.; Orlandini, E.; Yeomans, J. M.) Lattice Boltzmann algorithm for three-dimensional liquid-crystal hydrodynamics. (English summary) **2005b:76013**
Dreyer, Wolfgang (*with* Qamar, Shamsul) Kinetic flux-vector splitting schemes for the hyperbolic heat conduction. (English summary) **2005b:80015**
Dupin, M. M. (*with* Halliday, Ian; Care, C. M.) A lattice Boltzmann model of flow blunting. (English summary) **2005b:76102**
Dyer, Martin (*with* Sinclair, Alistair; Vigoda, Eric; Weitz, Dror) Mixing in time and space for lattice spin systems: a combinatorial view. (English summary) **2005d:82082**
E, Wei-nan (*with* Li, Xiantao; Vanden-Eijnden, Eric) Some recent progress in multiscale modeling. (English summary) **2005e:74049**
Eliasson, Bengt The parallel implementation of the one-dimensional Fourier transformed Vlasov-Poisson system. (English summary) **2005m:76196**
El Jaï, Abdelhak *see* **Abdellaoui, Marouane**, 2005b:74034
Enss, Tilman (*with* Henkel, Malte; Picone, Alan; Schollwöck, Ulrich) Ageing phenomena without detailed balance: the contact process. (English summary)
Ernst, M. H. *see* **Ripoll, Marisol**, 2005m:82156
Ertler, C. (*with* Caraffini, G. L.; Schürrer, F.; Spiga, Giampiero) A multicell approximation to the Boltzmann equation for bimolecular chemical reactions. (English summary)
Galant, Adam (*with* Kutner, Ryszard; Majerowski, Andrzej) Heat transfer, Newton's law of cooling and the law of entropy increase simulated by the real-time computer experiment in Java. (English summary) (*see* **2005c:00014**)
Galkin, V. A. Convergence of difference schemes and a direct modeling method to solutions of the Smoluchowski equation in kinetic coagulation theory. (Russian)
Gallego, Samy (*with* Méhats, Florian) Numerical approximation of a quantum drift-diffusion model. (English and French summaries)
Gambassi, Andrea *see* **Caracciolo, Sergio et al.**
Gear, C. William *see* **Kevrekidis, Ioannis G. et al.**, 2005a:65075
Ginzburg, Irina (*with* d'Humières, Dominique) Multireflection boundary conditions for lattice Boltzmann models. (English summary) **2005a:76126**
Greenspan, Donald ★ N-body problems and models. **2005h:70002**
Gubinelli, Massimiliano *see* **Caracciolo, Sergio et al.**
Halliday, Ian *see* **Dupin, M. M. et al.**, 2005b:76102
Harting, Jens (*with* Venturoli, Maddalena; Coveney, Peter V.) Large-scale grid-enabled lattice Boltzmann simulations of complex fluid flow in porous media and under shear. (English summary) **2005b:76103**
(Hartmann, Alexander K.) *see* **New optimization algorithms in physics**, 2005d:90004
Hayakawa, Hisao *see* **Mitsudo, Tetsuya**, 2005k:82068
Henkel, Malte *see* **Enss, Tilman et al.** *and* **Ramasco, José J. et al.**
Hilhorst, H. J. (*with* Deloubrière, O.; Washenberger, M. J.; Täuber, Uwe C.) Segregation in diffusion-limited multispecies pair annihilation. (English summary)
Hoffmann, Karl Heinz[2] *see* **Seeger, Steffen**
d'Humières, Dominique *see* **Ginzburg, Irina**, 2005a:76126
Hyman, James M. *see* **Kevrekidis, Ioannis G. et al.**, 2005a:65075
Iqbal, Kaleem *see* **Khan, K. M. et al.**
Jandhyala, Vikram *see* **Chowdhury, Indranil**, 2005j:70020
Kabashima, Yoshiyuki *see* **van Mourik, Jort et al.**, (2005b:94001)
Karpov, Eduard G. *see* **Liu, Wing Kam et al.**, 2005c:74005
Kevrekidis, Ioannis G. (*with* Gear, C. William; Hyman, James M.; Kevrekidis, Panayotis G.; Runborg, Olof; Theodoropoulos, Constantinos) Equation-free, coarse-grained multiscale computation: enabling microscopic simulators to perform system-level analysis. (English summary) **2005a:65075**
Kevrekidis, Panayotis G. *see* **Kevrekidis, Ioannis G. et al.**, 2005a:65075
Khan, K. M. (*with* Ahmad, P.; Iqbal, Kaleem; Amin, Masood) Eley-Rideal model for a monomer-trimer catalytic reaction of the type $A + B_3 \to AB$: a Monte Carlo simulation study. (English summary)
Klar, Axel *see* **Ben Abdallah, Naoufel et al.**, 2005g:82050
Knysh, S. *see* **Smelyanskiy, V. N. et al.**, 2005k:81050
Komazawa, Takayoshi *see* **Seino, Mitsuhiro**
Kosuge, Shingo *see* **Aoki, Kazuo**[2], 2005i:65161
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Kutner, Ryszard *see* **Galant, Adam et al.**, (2005c:00014)
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Liebendörfer, M. *see* **D'Azevedo, E. F. et al.**, 2005j:65029
Lin, Chang-Shou *see* **Chang, Shu-Ming et al.**, 2005g:82074
Lin, Tai-Chia *see* **Chang, Shu-Ming et al.**, 2005g:82074
Lin, Wen Wei *see* **Chang, Shu-Ming et al.**, 2005g:82074
Liu, Wing Kam (*with* Karpov, Eduard G.; Zhang, Sulin; Park, Harold S.) An introduction to computational nanomechanics and materials. (English summary) **2005c:74005**
Lotova, G. Z. *see* **Mikhailov, Gennadii A.**
Love, Peter J. (*with* Boghosian, Bruce M.; Meyer, David A.) Lattice gas simulations of dynamical geometry in one dimension. (English summary) 2005c:76073
— *see also* **Boghosian, Bruce M. et al.**, 2005d:76030
Lupu, Gheorghe The use of Laguerre-Sonine polynomials in solving Boltzmann's equation. II. (English summary)
Majerowski, Andrzej *see* **Galant, Adam et al.**, (2005c:00014)
Malafei, D. A. *see* **Mozolevskiĭ, I. E. et al.**, (2005c:65004)
Manteuffel, Thomas A. *see* **Brown, Peter N. et al.**, 2005f:65168
Marenduzzo, D. *see* **Denniston, Colin D. et al.**, 2005b:76013
Margolus, Norman H. Universal cellular automata based on the collisions of soft spheres. **2005m:37030**
Martin, Olga *see* **Mastorakis, Nikos**
Martínez-Gamba, Irene *see* **Ben Abdallah, Naoufel et al.**, 2005g:82050
Mastorakis, Nikos (*with* Martin, Olga) On the solution of integral-differential equations via the Rayleigh-Ritz finite elements method: stationary transport equation. (English summary)
Matus, Petr P. *see* **Mozolevskiĭ, I. E. et al.**, (2005c:65004)
Mayer, Bernd *see* **Nilsson, Martin**[1] **et al.**, 2005d:82088
McLachlan, Robert I. (*with* Perlmutter, Matthew) Energy drift in reversible time integration. (English summary) **2005j:37141**
Méhats, Florian *see* **Gallego, Samy**
Mennucci, B. *see* **Tomasi, Jacopo et al.**, (2005c:81001)
Messer, B. *see* **D'Azevedo, E. F. et al.**, 2005j:65029
Meyer, David A. *see* **Love, Peter J. et al.**, 2005c:76073
Mezzacappa, A. *see* **D'Azevedo, E. F. et al.**, 2005j:65029
Mikhailov, Gennadii A. (*with* Lotova, G. Z.) The Monte Carlo method and a simple probabilistic model for studying the fluctuations of the critical parameter values of a transfer process transport. (Russian)
Mitsudo, Tetsuya (*with* Hayakawa, Hisao) Synchronization of kinks in the two-lane totally asymmetric simple exclusion process with open boundary conditions. (English summary) **2005k:82068**
Mora, Carlos M. Numerical simulation of stochastic evolution equations associated to quantum Markov semigroups. (English summary) **2005b:60171**
Morris, Robin D. *see* **Smelyanskiy, V. N. et al.**, 2005k:81050
van Mourik, Jort (*with* Saad, David; Kabashima, Yoshiyuki) Weight vs. magnetization enumerator for Gallager codes. (English summary) (*see* **2005b:94001**)
Mozolevskiĭ, I. E. (*with* Matus, Petr P.; Malafei, D. A.) The Fokker-Planck approximation of boundary value problems for the straight-ahead Boltzmann transport equation. (English summary) (*see* **2005c:65004**)

Nilsson, Martin[1] (*with* Rasmussen, Steen; Mayer, Bernd; Whitten, David) Constructive molecular dynamics lattice gases: three-dimensional molecular self-assembly. **2005d:82088**

Nouri, Anne (*with* Omrane, Abdennebi; Vila, Jean-Paul) Erratum on: "Boundary conditions for scalar conservation laws from a kinetic point of view" [J. Statist. Phys. **94** (1999), no. 5–6, 779–804; MR1694068 (2000c:82069)]. **2005h:82098**

Omrane, Abdennebi *see* **Nouri, Anne et al., 2005h:82098**

Orlandini, E. *see* **Denniston, Colin D. et al., 2005b:76013**

Ostilli, Massimo (*with* Presilla, Carlo) Exact Monte Carlo time dynamics in many-body lattice quantum systems. (English summary) **2005j:82053**

Ozizmir, Ercument *see* **Wollman, Stephen, 2005m:65184**

Park, Harold S. *see* **Liu, Wing Kam et al., 2005c:74005**

Pelissetto, Andrea *see* **Caracciolo, Sergio et al.**

Perlmutter, Matthew *see* **McLachlan, Robert I., 2005j:37141**

Picone, Alan *see* **Enss, Tilman et al.**

Presilla, Carlo *see* **Ostilli, Massimo, 2005j:82053**

Qamar, Shamsul *see* **Dreyer, Wolfgang, 2005b:80015**

Ramasco, José J. (*with* Henkel, Malte; Santos, Maria Augusta; da Silva Santos, Constantino A.) Ageing in the critical contact process: a Monte Carlo study. (English summary)

Rasmussen, Steen *see* **Nilsson, Martin[1] et al., 2005d:82088**

(Rieger, Heiko) *see* **New optimization algorithms in physics, 2005d:90004**

Ripoll, Marisol (*with* Ernst, M. H.) Model system for classical fluids out of equilibrium. (English summary) **2005m:82156**

Runborg, Olof *see* **Kevrekidis, Ioannis G. et al., 2005a:65075**

Saad, David *see* **van Mourik, Jort et al., (2005b:94001)**

Santos, Maria Augusta *see* **Ramasco, José J. et al.**

Schollwöck, Ulrich *see* **Enss, Tilman et al.**

Schürrer, F. *see* **Ertler, C. et al.**

Seeger, Steffen (*with* Hoffmann, Karl Heinz[2]) Erratum: "The cumulant method applied to a mixture of Maxwell gases" [Contin. Mech. Thermodyn. **14** (2002), no. 4, 321–335; MR1920892 (2003h:82080)].

Seino, Mitsuhiro (*with* Komazawa, Takayoshi) Continuous distribution of the effective fields and solution of Katsura 11K equation for $\pm J$ random Ising spin glass. (English summary)

Semerjian, Guilhem (*with* Weigt, Martin) Approximation schemes for the dynamics of diluted spin models: the Ising ferromagnet on a Bethe lattice. (English summary) **2005g:82086**

da Silva Santos, Constantino A. *see* **Ramasco, José J. et al.**

Sinclair, Alistair *see* **Dyer, Martin et al., 2005d:82082**

Smelyanskiy, V. N. (*with* Knysh, S.; Morris, Robin D.) Quantum adiabatic optimization and combinatorial landscapes. (English summary) **2005k:81050**

Spiga, Giampiero *see* **Ertler, C. et al.**

Tanaka, Kazuyuki[2] Statistical-mechanical approach to image processing. (English summary) **2005d:94015**

Täuber, Uwe C. *see* **Hilhorst, H. J. et al.**

Theodoropoulos, Constantinos *see* **Kevrekidis, Ioannis G. et al., 2005a:65075**

Tomasi, Jacopo (*with* Mennucci, B.; Laug, Patrick) The modeling and simulation of the liquid phase. (*see* **2005c:81001**)

Turban, L. Reaction-diffusion with a time-dependent reaction rate: the single-species diffusion-annihilation process. (English summary) **2005d:82116**

Vanden-Eijnden, Eric *see* **E, Wei-nan et al., 2005e:74049**

Venturoli, Maddalena *see* **Harting, Jens et al., 2005b:76103**

Vigoda, Eric *see* **Dyer, Martin et al., 2005d:82082**

Vila, Jean-Paul *see* **Nouri, Anne et al., 2005h:82098**

Walther, Jens H. *see* **Werder, Thomas et al., (2005d:65007)**

Washenberger, M. J. *see* **Hilhorst, H. J. et al.**

Watanabe, Tomonori Concrete construction and properties of the difference equation derived from the cellular automaton using the filtration technique. (English summary) **2005h:39037**

Weigt, Martin *see* **Semerjian, Guilhem, 2005g:82086**

Weitz, Dror *see* **Dyer, Martin et al., 2005d:82082**

Werder, Thomas (*with* Walther, Jens H.; Asikainen, Joonas; Koumoutsakos, Petros) Continuum-particle hybrid methods for dense fluids. (English summary) (*see* **2005d:65007**)

— (*with* Walther, Jens H.; Koumoutsakos, Petros) Hybrid atomistic-continuum method for the simulation of dense fluid flows. (English summary)

Whitten, David *see* **Nilsson, Martin[1] et al., 2005d:82088**

Wollman, Stephen (*with* Ozizmir, Ercument) Numerical approximation of the Vlasov-Poisson-Fokker-Planck system in one dimension. (English summary) **2005m:65184**

Yeomans, J. M. *see* **Denniston, Colin D. et al., 2005b:76013**

Yepez, Jeffrey *see* **Boghosian, Bruce M. et al., 2005d:76030**

Zhang, Sulin *see* **Liu, Wing Kam et al., 2005c:74005**

Items listed otherwise than by author

New optimization algorithms in physics ★ New optimization algorithms in physics. **2005d:90004**

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Alexander, Francis J. *see* **Eyink, Gregory L. et al., 2005f:82125**

Bartkiewicz, Stanisław J. *see* **Gabryś, Barbara J. et al., 2005b:82089**

Beck, Christian Superstatistics in hydrodynamic turbulence. (English summary) **2005c:82087**

Ding, Tian-Ran (*with* Zhao, Ren) Quantum statistical entropy of Kerr-de Sitter black hole. (English summary) **2005c:82088**

Eyink, Gregory L. (*with* Restrepo, Juan M.; Alexander, Francis J.) A mean field approximation in data assimilation for nonlinear dynamics. (English summary) **2005f:82125**

Flyvbjerg, Henrik Self-organized critical pinball machine. (English summary)

Gabryś, Barbara J. (*with* Pesz, Karol; Bartkiewicz, Stanisław J.) Brownian motion, molecular motors and ratchets. (English summary) **2005b:82089**

Izsák, Rudolf *see* **Szabó, György[2] et al., 2005a:82104**

Jeżewski, W. Scaling in weighted networks and complex systems. (English summary)

Ke, Jianhong (*with* Lin, Zhenquan) Catalysis-driven aggregate growth. (English summary) **2005e:82112**

Konno, Norio *see* **Masuda, Naoki et al., 2005k:82100**

Latyshev, Anatoliĭ Vasil'evich (*with* Yushkanov, A. A.) Analytic solution of boundary value problems for an ellipsoidal statistical equation. (Russian. Russian summary) **2005d:82122**

Laurençot, Philippe (*with* Mischler, Stéphane) On coalescence equations and related models. (English summary) **2005d:82123**

Lin, Zhenquan *see* **Ke, Jianhong, 2005e:82112**

Masuda, Naoki (*with* Miwa, Hiroyoshi; Konno, Norio) Analysis of scale-free networks based on a threshold graph with intrinsic vertex weights. (English summary) **2005k:82100**

Mischler, Stéphane *see* **Laurençot, Philippe, 2005d:82123**

Miwa, Hiroyoshi *see* **Masuda, Naoki et al., 2005k:82100**

Pesz, Karol *see* **Gabryś, Barbara J. et al., 2005b:82089**

Restrepo, Juan M. *see* **Eyink, Gregory L. et al., 2005f:82125**

Sieniutycz, Stanislaw Extremum properties of entropy to determine dynamics of growth and evolution in complex systems. (English summary) **2005c:82089**

de Sousa Vieira, Maria Are avalanches in sandpiles a chaotic phenomenon? (English summary)

Szabó, György[2] (*with* Szolnoki, Attila; Izsák, Rudolf) Rock-scissors-paper game on regular small-world networks. (English summary) **2005a:82104**

Szolnoki, Attila *see* **Szabó, György[2] et al., 2005a:82104**

Yushkanov, A. A. *see* **Latyshev, Anatoliĭ Vasil'evich, 2005d:82122**

Zhao, Ren *see* **Ding, Tian-Ran, 2005c:82088**

Items with secondary classifications in 82C99

Aubert, Julien *see* **Jung, Sunghwan et al.**

Ausloos, Marcel Statistical physics in meteorology. (English summary) **2005a:86018**

Banasiak, Jacek Conservative and shattering solutions for some classes of fragmentation models. (English summary) **2005b:47082**

Baronchelli, Andrea (*with* Caglioti, Emanuele; Loreto, Vittorio) Artificial sequences and complexity measures. (English summary) **2005m:68061**

Beck, Christian *see* **Daniels, Karen E. et al.**

Binder, P.-M. (*with* Okamoto, Nicholas H.) Noisy integer maps. (English summary) **2005h:37039**

Bodenschatz, Eberhard *see* **Daniels, Karen E. et al.**

Buisson, L. (*with* Ciliberto, S.) Off equilibrium fluctuations in a polymer glass. (English summary)

Burda, Zdzisław (*with* Jurkiewicz, Jerzy Władysław) Signal and noise in financial correlation matrices. (English summary) **2005g:91095**

Caglioti, Emanuele *see* **Baronchelli, Andrea et al., 2005m:68061**

Calogero, Simone (*with* Rein, Gerhard) On classical solutions of the Nordström-Vlasov system. (English summary) **2005c:35282**

— (*with* Rein, Gerhard) Global weak solutions to the Nordström-Vlasov system. (English summary) **2005h:83164**

Cannarsa, Piermarco (*with* Cardaliaguet, Pierre) Representation of equilibrium solutions to the table problem for growing sandpiles. (English summary) **2005k:35154**

Cardaliaguet, Pierre *see* **Cannarsa, Piermarco, 2005k:35154**

Chiragwandi, Z. *see* **Willander, M. et al., 2005h:76069**

Ciliberto, S. *see* **Buisson, L.**

Daniels, Karen E. (*with* Beck, Christian; Bodenschatz, Eberhard) Defect turbulence and generalized statistical mechanics. (English summary)

Datta, Sandip (*with* Negi, Surendra; Ramaswamy, Ramakrishna; Feudel, Ulrike) Critical strange nonchaotic dynamics in the Fibonacci map. (English summary)

Delfour, Michel C. Addendum and remarks on doubly conservative numerical schemes for the nonlinear Schrödinger equation and its control: "Finite-difference solutions of a nonlinear Schrödinger equation" [J. Comput. Phys. **44** (1981), no. 2, 277–288; MR0645840 (83c:65195)] by Delfour, M. Fortin and G. Payre. (English summary) **2005a:65082**

Denk, Ch. *see* **Mimkes, J. et al., 2005m:91171**

Dorogovtsev, Sergei N. (*with* Goltsev, Alexander V.; Mendes, José F. F.; Samukhin, Alexander N.) Spectra of complex networks. (English summary) **2005h:05132**

Eckmann, Jean-Pierre (*with* Moses, Elisha; Sergi, Danilo) Entropy of dialogues creates coherent structures in e-mail traffic. (English summary) **2005f:37195**

Èl', G. A. Infinite-gap limit of the Whitham equations. (Russian. Russian summary) **2005m:37173**

Eyink, Gregory L. (*with* Haine, T. W. N.; Lea, D. J.) Ruelle's linear response formula, ensemble adjoint schemes and Lévy flights. (English summary) **2005e:37201**

Fang, Tong *see* **Jin, Yan Fei et al.**

Fasano, Antonio (*with* Rosso, Fabio) Multiple fragmentation of liquid droplets in agitated dispersions. (English summary) **2005j:76090**

Feudel, Ulrike *see* **Datta, Sandip et al.**

Fiasconaro, A. *see* **Spagnolo, B. et al., 2005k:92074**

(Fortin, Michel) *see* **Delfour, Michel C., 2005a:65082**

Fründ, F. *see* **Mimkes, J. et al., 2005m:91171**

Goltsev, Alexander V. *see* **Dorogovtsev, Sergei N. et al., 2005h:05132**

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Hillebrand, M. *see* **Mimkes, J. et al., 2005m:91171**

Hu, Chin-Kun *see* **Saakian, David B. et al., 2005k:92039**

Jin, Yan Fei (*with* Xu, Wei[3]; Xu, Meng[2]; Fang, Tong) Stochastic resonance in linear system due to dichotomous noise modulated by bias signal. (English summary)

Jung, Sunghwan (*with* Storey, Brian D.; Aubert, Julien; Swinney, Harry L.) Nonextensive statistical mechanics for rotating quasi-two-dimensional turbulence. (English summary)

Jurkiewicz, Jerzy Władysław *see* **Burda, Zdzisław, 2005g:91095**

Kabashima, Yoshiyuki *see* **Saad, David et al., (2005b:94001)**

Khachatryan, H. *see* **Saakian, David B. et al., 2005k:92039**
Klar, Axel (*with* Wegener, Raimund) Traffic flow: models and numerics. (English summary) **2005f:90026**
Krometis, J. *see* **Schmittmann, B. et al., 2005m:90009**
Lamb, Wilson (*with* McBride, Adam C.) On a continuous coagulation and fragmentation equation with a singular fragmentation kernel. (English summary) **2005f:45017**
— Existence and uniqueness results for the continuous coagulation and fragmentation equation. (English summary) **2005b:35282**
Lea, D. J. *see* **Eyink, Gregory L. et al., 2005e:37201**
Loreto, Vittorio *see* **Baronchelli, Andrea et al., 2005m:68061**
Loskutov, A. Yu. (*with* Vasil′ev, K. A.) On the self-organization problem: a model of the formation of complex functional systems. (Russian. English and Russian summaries) **2005m:37210**
Mamontov, Yevgeny V. *see* **Willander, M. et al., 2005h:76069**
McBride, Adam C. *see* **Lamb, Wilson, 2005f:45017**
Mendes, José F. F. *see* **Dorogovtsev, Sergei N. et al., 2005h:05132**
Miękisz, Jacek Statistical mechanics of spatial evolutionary games. (English summary) **2005f:91030**
Mielke, Eckehard W. *see* **Schunck, Franz E., 2005b:83144**
Mimkes, J. (*with* Hillebrand, M.; Fründ, F.; Denk, Ch.; Willis, G.) Interactions of heterogeneous agents in stochastic socio-economic systems. **2005m:91171**
Molchanov, A. M. Bilinear systems. (Russian) **2005c:37032**
Moses, Elisha *see* **Eckmann, Jean-Pierre et al., 2005f:37195**
Murayama, Tatsuto *see* **Saad, David et al., (2005b:94001)**
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Ramaswamy, Ramakrishna *see* **Datta, Sandip et al.**
Ramaswamy, Sriram[2] *see* **Toner, John et al., 2005m:92065**
Rawal, S. (*with* Rodgers, G. J.) Growth and coagulation in a herding model. (English summary) **2005g:91108**
Rein, Gerhard *see* **Calogero, Simone, 2005c:35282** *and* **2005h:83164**
Rodgers, G. J. *see* **Rawal, S., 2005g:91108**
Rosso, Fabio *see* **Fasano, Antonio, 2005j:76090**
Saad, David (*with* Kabashima, Yoshiyuki; Murayama, Tatsuto; Vicente, Renato) Statistical physics of low density parity check error correcting codes. (English summary) (*see* **2005b:94001**)
Saakian, David B. (*with* Hu, Chin-Kun; Khachatryan, H.) Solvable biological evolution models with general fitness functions and multiple mutations in parallel mutation-selection scheme. (English summary) **2005k:92039**
Sakagami, Masa-aki (*with* Taruya, Atsushi) Self-gravitating stellar systems and non-extensive thermostatistics. (English summary) **2005c:85004**
Samukhin, Alexander N. *see* **Dorogovtsev, Sergei N. et al., 2005h:05132**
Schmittmann, B. (*with* Krometis, J.; Zia, R. K. P.) Will jams get worse when slow cars move over? (English summary) **2005m:90009**
Schunck, Franz E. (*with* Mielke, Eckehard W.) General relativistic boson stars. (English summary) **2005b:83144**
Sergi, Danilo *see* **Eckmann, Jean-Pierre et al., 2005f:37195**
Shakhov, E. M. *see* **Titarev, V. A., 2005k:82099**
Spagnolo, B. (*with* Valenti, D.; Fiasconaro, A.) Noise in ecosystems: a short review. (English summary) **2005k:92074**
Storey, Brian D. *see* **Jung, Sunghwan et al.**
Swinney, Harry L. *see* **Jung, Sunghwan et al.**
Taruya, Atsushi *see* **Sakagami, Masa-aki, 2005c:85004**
Titarev, V. A. (*with* Shakhov, E. M.) Numerical investigation of intense unsteady evaporation from the surface of a sphere. (Russian. Russian summary) **2005k:82099**
Toner, John (*with* Tu, Yuhai; Ramaswamy, Sriram[2]) Hydrodynamics and phases of flocks. (English summary) **2005m:92065**
Tu, Yuhai *see* **Toner, John et al., 2005m:92065**
Valenti, D. *see* **Spagnolo, B. et al., 2005k:92074**
Vasil′ev, K. A. *see* **Loskutov, A. Yu., 2005m:37210**
Vicente, Renato *see* **Saad, David et al., (2005b:94001)**
Wegener, Raimund *see* **Klar, Axel, 2005f:90026**
Willander, M. (*with* Mamontov, Yevgeny V.; Chiragwandi, Z.) Modelling living fluids with the subdivision into the components in terms of probability distributions. (English summary) **2005h:76069**
Willis, G. *see* **Mimkes, J. et al., 2005m:91171**
Xu, Meng[2] *see* **Jin, Yan Fei et al.**
Xu, Wei[3] *see* **Jin, Yan Fei et al.**
Zheng, Lie Stability of equilibria to a class of discrete nonlinear breakage equations. (Chinese. English and Chinese summaries) **2005b:34106**
Zia, R. K. P. *see* **Schmittmann, B. et al., 2005m:90009**

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Items with secondary classifications in 82Dxx

Mattis, Daniel C. ★ Statistical mechanics made simple. **2005c:82001**

82D05 Gases

Brilliantov, Nikolai V. *see* **Pöschel, Thorsten et al., 2005d:82124**
Laug, Patrick *see* **Tomasi, Jacopo et al., (2005c:81001)**
Lim, Wattana (*with* Sa-yakanit, Virulh) Bose-Einstein condensation of atomic hydrogen Feynman path integral approach. (English summary) **2005a:82105**
Mennucci, B. *see* **Tomasi, Jacopo et al., (2005c:81001)**
Pöschel, Thorsten (*with* Brilliantov, Nikolai V.; Schwager, Thomas) Long-time behavior of granular gases with impact-velocity dependent coefficient of restitution. (English summary) **2005d:82124**
Sa-yakanit, Virulh *see* **Lim, Wattana, 2005a:82105**
Schwager, Thomas *see* **Pöschel, Thorsten et al., 2005d:82124**
Tomasi, Jacopo (*with* Mennucci, B.; Laug, Patrick) The modeling and simulation of the liquid phase. (*see* **2005c:81001**)

Items with secondary classifications in 82D05

Bunimovich, Leonid A. (*with* Kreslavskiy, D. M.) Lorentz gas cellular automata on graphs. (English summary) **2005m:82098**
Feranchuk, I. D. (*with* Ivanov, Alexei Alexeevich) Operator method for nonperturbative calculation of the thermodynamic values in quantum statistics: diatomic molecular gas. (English summary) **2005g:82011**
Goudon, Thierry (*with* Poupaud, Frédéric) On the modeling of the transport of particles in turbulent flows. (English summary) **2005g:76066**
Ivanov, Alexei Alexeevich *see* **Feranchuk, I. D., 2005g:82011**
Kreslavskiy, D. M. *see* **Bunimovich, Leonid A., 2005m:82098**
Poupaud, Frédéric *see* **Goudon, Thierry, 2005g:76066**
Tirskiĭ, G. A. *see* **Zhdanov, V. M., 2005a:82100**
Zhdanov, V. M. (*with* Tirskiĭ, G. A.) Application of the moment method in deriving gas and plasma transport equations with transport coefficients in higher approximations. (Russian. Russian summary) **2005a:82100**

82D10 Plasmas

Aguirre, Luis A. *see* **Letellier, Christophe et al., 2005a:82109**
Alexandre, Radjesvarane (*with* Villani, Cédric) On the Landau approximation in plasma physics. (English and French summaries) **2005f:82126**
Assad, Syed M. (*with* Lim, Chjan C.) Statistical equilibrium of the Coulomb/vortex gas on the unbounded 2-dimensional plane. (English summary) **2005h:82106**
Bagland, Véronique Well-posedness for the spatially homogeneous Landau-Fermi-Dirac equation for hard potentials. (English summary) **2005i:82060**
Barton, Gabriel Casimir energies of spherical plasma shells. (English summary) **2005d:82125**
— Casimir's spheres near the Coulomb limit: energy density, pressures and radiative effects. (English summary) **2005b:82090**
— Corrigendum: "Casimir's spheres near the Coulomb limit: energy density, pressures and radiative effects" [J. Phys. A. **37** (2004), no. 11, 3725–3741; MR2042153 (2005b:82090)]. (English summary)
— Casimir effects for a flat plasma sheet. I. Energies. (English summary) **2005m:82150**
— Casimir effects for a flat plasma sheet. II. Fields and stresses. (English summary) **2005m:82151**
Bauer, Sebastian Hermann (*with* Kunze, Markus) The Darwin approximation of the relativistic Vlasov-Maxwell system. (English summary) **2005k:82101**
Ben Abdallah, Naoufel (*with* Méhats, Florian) On a Vlasov-Schrödinger-Poisson model (English summary) **2005a:82106**
Borodachëv, L. V. (*with* Mingalëv, I. V.; Mingalëv, O. V.) A drift algorithm for the motion of a particle in the Darwin model of a plasma. (Russian. Russian summary) **2005b:82091**
Boyd, T. J. M. (*with* Sanderson, J. J.) ★ The physics of plasmas. **2005e:82113**
Crouseilles, Nicolas (*with* Filbet, Francis) Numerical approximation of collisional plasmas by high order methods. (English summary) **2005f:82127**
Degond, Pierre (*with* Parzani, Céline; Vignal, Marie-Hélène) Plasma expansion in vacuum: modeling the breakdown of quasi neutrality. (English summary) **2005h:82107**
Deng, Yan Ping (*with* Zhang, Jian[1]) Instability of the mixed Bose-Einstein condensate. (Chinese. English and Chinese summaries)
Fantoni, R. (*with* Jancovici, B.; Téllez, Gabriel) Pressures for a one-component plasma on a pseudosphere. (English summary) **2005f:82128**
Filbet, Francis *see* **Crouseilles, Nicolas, 2005f:82127**
Giovangigli, Vincent (*with* Graille, Benjamin) Asymptotic stability of equilibrium states for ambipolar plasmas. (English summary) **2005m:82152**
Graille, Benjamin *see* **Giovangigli, Vincent, 2005m:82152**
Guo, Yan *see* **Strain, Robert M., 2005m:82155**
Hansen, Olaf (*with* Jüngel, Ansgar) Analysis of a spherical harmonics expansion model of plasma physics. (English summary) **2005d:82126**
Jancovici, B. (*with* Šamaj, L.) Microscopic calculation of the dielectric susceptibility tensor for Coulomb fluids. II. (English summary) **2005a:82107**
— (*with* Téllez, Gabriel) Charge fluctuations for a Coulomb fluid in a disk on a pseudosphere. (English summary) **2005j:82075**
— *see also* **Fantoni, R. et al., 2005f:82128**
Jüngel, Ansgar Asymptotic limits in macroscopic plasma models. (English summary) **2005a:82108**
— *see also* **Hansen, Olaf, 2005d:82126**
Kalinay, P. *see* **Šamaj, L. et al., 2005m:82154**
Kamelander, G. *see* **Pohn, E. et al., 2005j:82076**
Kunze, Markus *see* **Bauer, Sebastian Hermann, 2005k:82101**
Lefebvre, B. *see* **Letellier, Christophe et al., 2005a:82109**
Letellier, Christophe (*with* Aguirre, Luis A.; Maquet, Jean; Lefebvre, B.) Analogy between a 10D model for nonlinear wave-wave interaction in a plasma and the 3D Lorenz dynamics. (English summary) **2005a:82109**
Lim, Chjan C. *see* **Assad, Syed M., 2005h:82106**
Lupu, Gheorghe The use of Laguerre-Sonine polynomials in solving Boltzmann's equation. II. (English summary)
Maquet, Jean *see* **Letellier, Christophe et al., 2005a:82109**
Méhats, Florian *see* **Ben Abdallah, Naoufel, 2005a:82106**
Mingalëv, I. V. *see* **Borodachëv, L. V. et al., 2005b:82091**
Mingalëv, O. V. *see* **Borodachëv, L. V. et al., 2005b:82091**
Parzani, Céline *see* **Degond, Pierre et al., 2005h:82107**
Peng, Yue-Jun Some asymptotic analysis in steady-state Euler-Poisson equations for potential flow. (English summary) **2005h:82108**
Pohn, E. (*with* Shoucri, M. M.; Kamelander, G.) Eulerian Vlasov codes (English summary) **2005j:82076**

Poulton, C. G. *see* **Spence, Alastair**, 2005j:82077
Šamaj, L. Is the two-dimensional one-component plasma exactly solvable? (English summary) **2005m:82153**
— (*with* Wagner, J.; Kalinay, P.) Translation symmetry breaking in the one-component plasma on the cylinder. (English summary) **2005m:82154**
— *see also* **Jancovici, B.**, **2005a:82107**
Sanderson, J. J. *see* **Boyd, T. J. M.**, **2005e:82113**
Schaeffer, Jack The Vlasov Poisson system with steady spatial asymptotics. (English summary) **2005g:82124**
Shoucri, M. M. *see* **Pohn, E. et al.**, **2005j:82076**
Spence, Alastair (*with* Poulton, C. G.) Photonic band structure calculations using nonlinear eigenvalue techniques. (English summary) **2005j:82077**
Strain, Robert M. (*with* Guo, Yan) Stability of the relativistic Maxwellian in a collisional plasma. (English summary) **2005m:82155**
Téllez, Gabriel *see* **Fantoni, R. et al.**, **2005f:82128** *and* **Jancovici, B.**, **2005j:82075**
Vignal, Marie-Hélène *see* **Degond, Pierre et al.**, **2005h:82107**
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Wagner, J. *see* **Šamaj, L. et al.**, **2005m:82154**
Yu, Hongjun Global classical solution of the Vlasov-Maxwell-Landau system near Maxwellians. (English summary) **2005h:82109**
Zhang, Jian[1] *see* **Deng, Yan Ping**

Items with secondary classifications in 82D10

Aqua, J.-N. (*with* Cornu, F.) Density profiles in a quantum Coulomb fluid near a hard wall. (English summary) **2005f:82024**
Atanasiu, C. V. (*with* Günter, Sibylle; Lackner, K.; Miron, I. G.) Analytical solutions to the Grad-Shafranov equation. (English summary) **2005h:76092**
Baimbetov, F. B. (*with* Ramazanov, T. S.) ★ Математическое моделирование в физике неидеальной плазмы. (Russian. Russian summary) [Mathematical modeling in nonideal plasma physics]
Bernis, Laurent Solutions stationnaires des équations de Vlasov-Poisson à symétries cylindriques. (English and French summaries) [Cylindrically symmetric stationary solutions of the Vlasov-Poisson equations] **2005m:76194**
Bertrand, Pierre *see* **Labrunie, Simon et al.**, **2005d:76046**
Bessaih, H. (*with* Flandoli, Franco) Limit behaviour of a dense collection of vortex filaments. (English summary) **2005m:76104**
Besse, Nicolas Convergence of a semi-Lagrangian scheme for the one-dimensional Vlasov-Poisson system. (English summary) **2005b:65098**
Bostan, Mihai Solutions périodiques en temps des équations de Vlasov-Maxwell. (English and French summaries) [Time-periodic solutions for the Vlasov-Maxwell equations] **2005f:35039**
Bouchut, François (*with* Golse, François; Pallard, Christophe) Nonresonant smoothing for coupled wave + transport equations and the Vlasov-Maxwell system. (English summary) **2005j:35137**
Bouzarth, Elizabeth L. (*with* Richeson, David) Topological helicity for framed links. (English summary) **2005i:57010**
Brenier, Yann (*with* Mauser, Norbert J.; Puel, Marjolaine) Incompressible Euler and e-MHD as scaling limits of the Vlasov-Maxwell system. (English summary) **2005f:35254**
Calogero, Simone Global small solutions of the Vlasov-Maxwell system in the absence of incoming radiation. (English summary) **2005j:35211**
Caprino, S. A Vlasov-Poisson plasma model with non-L_1 data. (English summary) **2005i:35030**
Carrillo, José-Antonio *see* **Labrunie, Simon et al.**, **2005d:76046**
Ceccherini, F. (*with* Cicogna, Giampaolo; Pegoraro, F.) Symmetry properties of a system of Euler-type equations for magnetized plasmas. (English summary) **2005m:35012**
— (*with* Montagna, Chiara; Pegoraro, F.; Cicogna, Giampaolo) Two-dimensional Harris-Liouville plasma kinetic equilibria. (English summary) **2005m:76195**
Chavanis, Pierre-Henri *see* **Leprovost, N. et al.**, **2005k:76138**
Chikrii, Arkadii A. *see* **Parsa, Z. et al.**, **2005k:35395**
Cicogna, Giampaolo *see* **Ceccherini, F. et al.**, **2005m:35012** *and* **2005m:76195**
Colin, M. (*with* Colin, Thierry) On a quasilinear Zakharov system describing laser-plasma interactions. (English summary) **2005h:35317**
Colin, Thierry *see* **Colin, M.**, **2005h:35317**
Cornu, F. *see* **Aqua, J.-N.**, **2005f:82024**
Crouseilles, Nicolas (*with* Degond, Pierre; Lemou, Mohammed) A hybrid kinetic-fluid model for solving the Vlasov-BGK equation. (English summary) **2005j:82069**
Degond, Pierre *see* **Crouseilles, Nicolas et al.**, **2005j:82069**
Desvillettes, Laurent Plasma kinetic models: the Fokker-Planck-Landau equation. (English summary) **2005k:82073**
Dodin, I. Y. (*with* Fisch, N. J.; Rax, J. M.) Ponderomotive barrier as a Maxwell demon. (English summary) **2005h:76095**
Dubrulle, B. *see* **Leprovost, N. et al.**, **2005k:76138**
Ebeling, Werner (*with* Röpke, Gerd) Statistical mechanics of confined systems with rotational excitations. (English summary) **2005d:82063**
Èĭdel′man, Samuil Davidovich *see* **Parsa, Z. et al.**, **2005k:35395**
Erofeev, Vasily Ivanovich Impossibility of Vedenov-Rudakov's plasma modulational instability as one more illustration of the inappropriateness of the recipes of nonequilibrium statistical mechanics. (English summary) **2005a:76175**
Essén, Hanno Magnetohydrodynamic self-consistent exact helical solutions. (English summary) **2005f:76117**
Fisch, N. J. *see* **Dodin, I. Y. et al.**, **2005h:76095**
Flandoli, Franco *see* **Bessaih, H.**, **2005m:76104**
Gasser, Ingenuin A review on small Debye length and quasi-neutral limits in macroscopic models for charged fluids. (English summary) **2005c:76089**
Giovangigli, Vincent (*with* Graille, Benjamin) Le problème de Cauchy local pour les plasmas dissipatifs. (English and French summaries) [The local Cauchy problem for dissipative plasmas] **2005i:35168**
Glass, Olivier On the controllability of the Vlasov-Poisson system. (English summary) **2005a:93016**
Golse, François *see* **Bouchut, François et al.**, **2005j:35137**
Graille, Benjamin *see* **Giovangigli, Vincent**, **2005i:35168**
Günter, Sibylle *see* **Atanasiu, C. V. et al.**, **2005h:76092**
Guo, Yan The Boltzmann equation in the whole space. (English summary) **2005g:35028**
— (*with* Shu, Chi-Wang; Zhou, Tie) The dynamics of a plane diode. (English summary) **2005f:35302**
Hao, Chengchun (*with* Xiao, Ling) Large time behavior and global existence of solution to the bipolar defocusing nonlinear Schrödinger-Poisson system. (English summary) **2005k:35378**
Hwang, Hyung Ju Regularity for the Vlasov-Poisson system in a convex domain. (English summary) **2005f:35036**
Jin, Shi (*with* Markowich, Peter A.; Zheng, Chunxiong) Numerical simulation of a generalized Zakharov system. (English summary) **2005e:65155**
Kapitonov, Boris V. (*with* Raupp, Marco Antonio) Boundary stabilization in a problem of transmission for an inhomogeneous plasma. (English summary) **2005c:35026**
Labrunie, Simon (*with* Carrillo, José-Antonio; Bertrand, Pierre) Numerical study on hydrodynamic and quasi-neutral approximations for collisionless two-species plasmas. (English summary) **2005d:76046**
Lackner, K. *see* **Atanasiu, C. V. et al.**, **2005h:76092**
Lemou, Mohammed On multipole approximations of the Fokker-Planck-Landau operator. (English summary) **2005f:82122**
— *see also* **Crouseilles, Nicolas et al.**, **2005j:82069**
Leprovost, N. (*with* Dubrulle, B.; Chavanis, Pierre-Henri) Thermodynamics of magnetohydrodynamic flows with axial symmetry. (English summary) **2005k:76138**
Loeper, Grégoire (*with* Vasseur, Alexis) Electric turbulence in a plasma subject to a strong magnetic field. (English summary) **2005j:78012**
Mahajan, S. M. *see* **Yoshida, Zensho et al.**, **2005g:76132**
Markowich, Peter A. *see* **Jin, Shi et al.**, **2005e:65155**
Mauser, Norbert J. *see* **Brenier, Yann et al.**, **2005f:35254**
Miron, I. G. *see* **Atanasiu, C. V. et al.**, **2005h:76092**
Montagna, Chiara *see* **Ceccherini, F. et al.**, **2005m:76195**
Morrison, P. J. Hamiltonian and action principle formulations of plasma physics. (English summary) **2005m:76200**
Ohsaki, Shuichi *see* **Yoshida, Zensho et al.**, **2005g:76132**
Pallard, Christophe *see* **Bouchut, François et al.**, **2005j:35137**
Parsa, Z. (*with* Chikrii, Arkadii A.; Èĭdel′man, Samuil Davidovich; Yavorskij, V.; Zadorozhnyĭ, V. F.) Fokker-Planck model of charged-particle beam behavior in a strong toroidal magnetic field. (English summary) **2005k:35395**
Pegoraro, F. *see* **Ceccherini, F. et al.**, **2005m:35012** *and* **2005m:76195**
Peng, Yue-Jun (*with* Wang, Ya-Guang) Quasineutral limit and boundary layers in Euler-Poisson system. (English summary) **2005f:76118**
— (*with* Wang, Ya-Guang) Boundary layers and quasi-neutral limit in steady state Euler-Poisson equations for potential flows. (English summary) **2005b:35230**
Puel, Marjolaine (*with* Saint-Raymond, Laure) Quasineutral limit for the relativistic Vlasov-Maxwell system. **2005k:35409**
— *see also* **Brenier, Yann et al.**, **2005f:35254**
Ramazanov, T. S. *see* **Baimbetov, F. B.**
Raupp, Marco Antonio *see* **Kapitonov, Boris V.**, **2005c:35026**
Rax, J. M. *see* **Dodin, I. Y. et al.**, **2005h:76095**
Rein, Gerhard Global weak solutions to the relativistic Vlasov-Maxwell system revisited. (English summary) **2005k:35396**
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Röpke, Gerd *see* **Ebeling, Werner**, **2005d:82063**
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Schaeffer, Jack A small data theorem for collisionless plasma that includes high velocity particles. (English summary) **2005f:35300**
Sentis, Rémi Mathematical models for laser-plasma interaction. (English summary) **2005m:35294**
Short, R. W. (*with* Simon, Albert) Theory of three-wave parametric instabilities in inhomogeneous plasmas revisited. (English summary) **2005h:76100**
Shu, Chi-Wang *see* **Guo, Yan et al.**, **2005f:35302**
Simon, Albert *see* **Short, R. W.**, **2005h:76100**
Tzenov, Stephan I. ★ Contemporary accelerator physics. **2005k:78007**
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Wang, Shu Quasineutral limit of Euler-Poisson system with and without viscosity. (English summary) **2005i:35225**
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Xiao, Ling *see* **Hao, Chengchun**, **2005k:35378**
Yau, Stephen S. T. Computation of Fokker-Planck equation. (English summary) **2005m:82122**
Yavorskij, V. *see* **Parsa, Z. et al.**, **2005k:35395**
Yoshida, Zensho (*with* Mahajan, S. M.; Ohsaki, Shuichi) Scale hierarchy created in plasma flow. (English summary) **2005g:76132**
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Zheng, Chunxiong *see* **Jin, Shi et al.**, **2005e:65155**
Zhou, Tie *see* **Guo, Yan et al.**, **2005f:35302**

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Arikawa, M. (*with* Yamamoto, Takashi; Saiga, Y.; Kuramoto, Yoshio) Exact electron addition spectrum in 1D supersymmetric t-J model with $1/r^2$ interaction. (English summary) **2005g:82125**
Arinshteĭn, É. A. A direct variational method in the theory of liquids. (Russian. Russian summary) **2005j:82078**
Bedeaux, Dick (*with* Johannessen, E.; Røsjorde, A.) The nonequilibrium van der Waals square gradient model. I. The model and its numerical solution. (English summary) **2005b:82092**
— *see also* **Johannessen, E.**, **2005b:82093**
Bolton, Colin D. (*with* Wattis, Jonathan A. D.) The Becker-Döring equations with monomer input, competition and inhibition. (English summary) **2005e:82114**

Chang, A. M. Chiral Luttinger liquids at the fractional quantum Hall edge. (English summary) **2005e:82115**
Choquard, Philippe (*with* Wagner, Joël) On the "mean field" interpretation of Burgers' equation. (English summary) **2005f:82129**
— (*with* Wagner, Joël) On a class of implicit solutions of the continuity and Euler's equations for 1D systems with long range interactions. (English summary) **2005k:82102**
Coveney, Peter V. *see* **Delgado-Buscalioni, Rafael, 2005c:82090**
Delgado-Buscalioni, Rafael (*with* Coveney, Peter V.) Hybrid molecular-continuum fluid dynamics. (English summary) **2005c:82090**
Ernst, M. H. *see* **Ripoll, Marisol, 2005m:82156**
Fenz, W. *see* **Omelyan, I. P. et al.** *and* **Errata: "Ising fluids in an external magnetic field: an integral equation approach"**
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Forsberg, Björn *see* **Kjellander, Roland**
Forster, Christina *see* **Posch, Harald A., (2005i:82001)**
Johannessen, E. (*with* Bedeaux, Dick) The nonequilibrium van der Waals square gradient model. II. Local equilibrium of the Gibbs surface. (English summary) **2005b:82093**
— *see also* **Bedeaux, Dick et al., 2005b:82092**
Karakasidis, T. E. (*with* Liakopoulos, A. B.) Two-regime dynamical behaviour in Lennard-Jones systems: spectral and rescaled range analysis. (English summary)
Kjellander, Roland (*with* Forsberg, Björn) Ionic fluids with r^{-6} pair interactions have power-law electrostatic screening. (English summary)
Kröger, Martin Simple models for complex nonequilibrium fluids. (English summary) **2005c:82091**
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Omelyan, I. P. (*with* Mryglod, I. M.; Folk, Reinhard; Fenz, W.) Ising fluids in an external magnetic field: an integral equation approach. (English summary)
— *see also* **Errata: "Ising fluids in an external magnetic field: an integral equation approach"**
Posch, Harald A. (*with* Forster, Christina) Lyapunov instability of fluids. (English summary) (*see* **2005i:82001**)
Reich, Hendrik (*with* Schmidt, Matthias[2]) Replica density functional study of one-dimensional hard core fluids in porous media. (English summary) **2005e:82116**
Ripoll, Marisol (*with* Ernst, M. H.) Model system for classical fluids out of equilibrium. (English summary) **2005m:82156**
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Saiga, Y. *see* **Arikawa, M. et al., 2005g:82125**
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Yamamoto, Takashi *see* **Arikawa, M. et al., 2005g:82125**

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Errata:
"Ising fluids in an external magnetic field: an integral equation approach" Publisher's note: "Ising fluids in an external magnetic field: an integral equation approach" [Phys. Rev. E (3) **69** (2004), no. 6, 061506, 12 pp.; MR2096490] by I. P. Omelyan, I. M. Mryglod, R. Folk and W. Fenz.

Items with secondary classifications in 82D15

Baidakov, V. G. (*with* Boltachev, G. Sh.; Chernykh, G. G.) Curvature corrections to surface tension. (English summary) **2005j:82060**
Bec, Jérémie (*with* Khanin, Konstantin) Forced Burgers equation in an unbounded domain. (English summary) **2005c:76056**
Benzi, Roberto (*with* Biferale, Luca; Sbragaglia, Mauro) A Gibbs-like measure for single-time, multi-scale energy transfer in stochastic signals and shell model of turbulence. (English summary) **2005g:76060**
Biferale, Luca *see* **Benzi, Roberto et al., 2005g:76060**
Boltachev, G. Sh. *see* **Baidakov, V. G. et al., 2005j:82060**
Chen, Tian-Quan ★ A non-equilibrium statistical mechanics. **2005c:82053**
Chernykh, G. G. *see* **Baidakov, V. G. et al., 2005j:82060**
Chesnokov, Aleksandr Aleksandrovich *see* **Russo, Giovanni et al., 2005k:76134**
Corberi, Federico (*with* Gonnella, Giuseppe; Lamura, Antonio) Effects of anisotropy on the formation of a lamellar phase under shear. (English summary)
Gallavotti, Giovanni (*with* Rondoni, Lamberto; Segre, Enrico) Lyapunov spectra and nonequilibrium ensembles equivalence in 2D fluid mechanics. (English summary) **2005m:76097**
Gawędzki, Krzysztof (*with* Horvai, Péter) Sticky behavior of fluid particles in the compressible Kraichnan model. (English summary) **2005g:76070**
Gonnella, Giuseppe *see* **Corberi, Federico et al.**
Horvai, Péter *see* **Gawędzki, Krzysztof, 2005g:76070**
Khanin, Konstantin *see* **Bec, Jérémie, 2005c:76056**
Kuksin, Sergei B. The Eulerian limit for 2D statistical hydrodynamics. (English summary) **2005e:76030**
Lamura, Antonio *see* **Corberi, Federico et al.**
Loginov, B. V. Applications of bifurcation problems with symmetry breaking. (Russian) **2005m:47134**
Peng, Yue-Jun (*with* Wang, Ya-Guang) Convergence of compressible Euler-Poisson equations to incompressible type Euler equations. (English summary) **2005m:76149**
(Qian, Min) *see* **Chen, Tian-Quan, 2005c:82053**
Robert, Raoul Statistical hydrodynamics (Onsager revisited). **2005a:76004**
Rondoni, Lamberto *see* **Gallavotti, Giovanni et al., 2005m:76097**
Russo, Giovanni (*with* Teshukov, Vladimir; Chesnokov, Aleksandr Aleksandrovich) A special class of solutions of the kinetic equation of a bubbly fluid. (Russian. Russian summary) **2005k:76134**
Sbragaglia, Mauro *see* **Benzi, Roberto et al., 2005g:76060**
Segre, Enrico *see* **Gallavotti, Giovanni et al., 2005m:76097**
Teshukov, Vladimir *see* **Russo, Giovanni et al., 2005k:76134**
Walkington, Noel J. Macroscopic models of fluids with microstructure. (English summary) **2005b:76006**
Wang, Ya-Guang *see* **Peng, Yue-Jun, 2005m:76149**

82D20 Solids

Chelikowsky, James R. (*with* Kronik, Leeor; Vasiliev, Igor; Jain, Manish; Saad, Youcef) Using real space pseudopotentials for the electronic structure problem. (*see* **2005c:81001**)
Corberi, Federico (*with* Gonnella, Giuseppe; Lamura, Antonio) Effects of anisotropy on the formation of a lamellar phase under shear. (English summary)
Furman, G. B. (*with* Goren, S. D.) Dipolar coupling spin dynamics: perturbation approach. (English summary)
Gonnella, Giuseppe *see* **Corberi, Federico et al.**
Goren, S. D. *see* **Furman, G. B.**
Jain, Manish *see* **Chelikowsky, James R. et al., (2005c:81001)**
Kronik, Leeor *see* **Chelikowsky, James R. et al., (2005c:81001)**
Lamura, Antonio *see* **Corberi, Federico et al.**
Paraoanu, Gh.-S. (*with* Stanescu, T. D.) Self-duality and periodicity at finite filling fraction. (English summary) **2005j:82079**
Saad, Youcef *see* **Chelikowsky, James R. et al., (2005c:81001)**
Stanescu, T. D. *see* **Paraoanu, Gh.-S., 2005j:82079**
Vasiliev, Igor *see* **Chelikowsky, James R. et al., (2005c:81001)**

Items with secondary classifications in 82D20

Chen, Jiun-Shyan (*with* Mehraeen, Shafigh) Variationally consistent multi-scale modeling and homogenization of stressed grain growth. (English summary) **2005b:74009**
Kitanin, N. A. (*with* Maillet, J. M.; Slavnov, N. A.; Terras, V.) Master equation for spin-spin correlation functions of the XXZ chain. (English summary) **2005m:82025**
Liu, Wing Kam *see* **Park, Harold S., 2005b:74124**
Maillet, J. M. *see* **Kitanin, N. A. et al., 2005m:82025**
Mehraeen, Shafigh *see* **Chen, Jiun-Shyan, 2005b:74009**
Ovchinnikov, S. G. (*with* Val'kov, V. V.) ★ Hubbard operators in the theory of strongly correlated electrons. **2005m:82001**
Park, Harold S. (*with* Liu, Wing Kam) An introduction and tutorial on multiple-scale analysis in solids. (English summary) **2005b:74124**
Slavnov, N. A. *see* **Kitanin, N. A. et al., 2005m:82025**
Terras, V. *see* **Kitanin, N. A. et al., 2005m:82025**
Truskinovsky, Lev (*with* Vainchtein, Anna) The origin of nucleation peak in transformational plasticity. (English summary) **2005a:74078**
Vainchtein, Anna *see* **Truskinovsky, Lev, 2005a:74078**
Val'kov, V. V. *see* **Ovchinnikov, S. G., 2005m:82001**

82D25 Crystals {For crystallographic group theory, see 20H15.}

Andrle, Miroslav *see* **Kramer, Peter, 2005d:82128**
Aragón, J. L. *see* **Gómez-Rodríguez, A. et al., 2005j:82080**
Baake, Michael (*with* Frettlöh, D.) SCD patterns have singular diffraction. (English summary) **2005k:82103**
Bokanowski, Olivier (*with* Grébert, Benoît; Mauser, Norbert J.) Local density approximations for the energy of a periodic Coulomb model. (English summary) **2005a:82110**
Caliandro, Rocco (*with* Carrozzini, Benedetta; Cascarano, Giovanni Luca; De Caro, Liberato; Giacovazzo, Carmelo; Moustiakimov, Marat; Siliqi, Dritan) The partial structure with errors: a probabilistic treatment. (English summary)
Carrozzini, Benedetta *see* **Caliandro, Rocco et al.**
Cascarano, Giovanni Luca *see* **Caliandro, Rocco et al.**
Dąbrowska, Aleksandra (*with* Kozakowski, Bartłomiej; Wolny, Janusz) Statistical approach in cluster analysis of two-dimensional quasicrystals. (English summary)
De Caro, Liberato *see* **Caliandro, Rocco et al.**
Endou, Rihei (*with* Niizeki, Komajiro; Fujita, Nobuhisa) Universalities in one-electron properties of limit quasiperiodic lattices. (English summary)
Fischer, Werner Minimal densities of cubic sphere-packing types. (English summary) **2005d:82127**
Frettlöh, D. *see* **Baake, Michael, 2005k:82103**
Fujita, Nobuhisa *see* **Endou, Rihei et al.**
Giacovazzo, Carmelo *see* **Caliandro, Rocco et al.**
Golovko, V. A. Crystals of cubic symmetry in statistical theory. (English summary) **2005f:82130**
Gómez-Rodríguez, A. (*with* Aragón, J. L.; Torres Hernanz, Manuel) Self-reciprocal redundant vector stars. (English summary) **2005j:82080**
Grébert, Benoît *see* **Bokanowski, Olivier et al., 2005a:82110**
Janner, A. Zones and sublattices of integral lattices. (English summary) **2005g:82126**
Kozakowski, Bartłomiej *see* **Dąbrowska, Aleksandra et al.**
Kramer, Peter (*with* Andrle, Miroslav) Inflation and wavelets for the icosahedral Danzer tiling. (English summary) **2005d:82128**
Krivovichev, S. V. Crystal structures and cellular automata. (English summary) **2005a:82111**
Kudlicki, Andrzej *see* **Rowicka, Małgorzata et al., 2005f:82131**
Kumar, Mukul *see* **Reed, Bryan W. et al., 2005g:82127**
Lin, Fang *see* **Tao, Juan**
Lowde, R. D. (*with* Tindle, G. L.) On spin waves and spin disorder in face-centred-cubic $Mn_{73}Ni_{27}$. (English summary)
Mana, Giovanni (*with* Palmisano, Carlo) A Fourier optics approach to the dynamical theory of X-ray diffraction—continuously deformed crystals. (English summary) **2005b:82094**
Mauser, Norbert J. *see* **Bokanowski, Olivier et al., 2005a:82110**
Minich, Roger W. *see* **Reed, Bryan W. et al., 2005g:82127**
Moustiakimov, Marat *see* **Caliandro, Rocco et al.**

Niizeki, Komajiro *see* **Endou, Rihei et al.**
Otwinowski, Zbyszek *see* **Rowicka, Małgorzata et al., 2005f:82131**
Palmisano, Carlo *see* **Mana, Giovanni, 2005b:82094**
Prince, Edward ★ Mathematical techniques in crystallography and materials science. **2005d:82129**
Reed, Bryan W. (*with* Minich, Roger W.; Rudd, Robert E.; Kumar, Mukul) The structure of the cubic coincident site lattice rotation group. (English summary) **2005g:82127**
Rowicka, Małgorzata (*with* Kudlicki, Andrzej; Zelinka, Jan; Otwinowski, Zbyszek) Coordinate transformations in modern crystallographic computing. (English summary) **2005f:82131**
Rudd, Robert E. *see* **Reed, Bryan W. et al., 2005g:82127**
Siliqi, Dritan *see* **Caliandro, Rocco et al.**
van Smaalen, Sander An elementary introduction to superspace crystallography. (English summary) **2005i:82061**
Stepenshchikov, Dmitry G. *see* **Voĭtekhovskiĭ, Yu. L., 2005a:82112**
Steurer, Walter Twenty years of structure research on quasicrystals. I. Pentagonal, octagonal, decagonal and dodecagonal quasicrystals. (English summary)
Tao, Juan (*with* Lin, Fang) Analytical solution to the control equation of two-dimensional unsteady-state crystal growth. (Chinese. English and Chinese summaries)
Thimm, Georg Crystal structures and their enumeration via quotient graphs. (English summary) **2005g:82128**
Tindle, G. L. *see* **Lowde, R. D.**
Torres Hernanz, Manuel *see* **Gómez-Rodríguez, A. et al., 2005j:82080**
Voĭtekhovskiĭ, Yu. L. (*with* Stepenshchikov, Dmitry G.) A theorem on the fullerenes with no adjacent pentagons. (English summary) **2005a:82112**
Wolny, Janusz *see* **Dąbrowska, Aleksandra et al.**
Yamamoto, Akiji Generalized quasiperiodic patterns and superstructures in quasicrystals. (English summary) **2005i:82062**
Zelinka, Jan *see* **Rowicka, Małgorzata et al., 2005f:82131**

Items with secondary classifications in 82D25

Altschuler, Eric Lewin (*with* Pérez-Garrido, Antonio) Global minimum for Thomson's problem of charges on a sphere. (English summary) **2005m:78003**
Aragón, J. L. *see* **Torres Hernanz, Manuel et al., 2005c:52020**
Artamonov, Vyacheslav A. Quasicrystals and their symmetries. (Russian. English and Russian summaries) **2005i:52029**
Barbé, A. (*with* von Haeseler, F.) Correlation and spectral properties of higher-dimensional paperfolding and Rudin-Shapiro sequences. (English summary) **2005m:11037**
Blanc, Xavier Lower bound for the interatomic distance in Lennard-Jones clusters. (English summary) **2005g:81359**
Brunetti, Sara (*with* Daurat, Alain) Stability in discrete tomography: some positive results. (English summary) **2005j:90043**
Carra, Paolo Interpreting Stone's model of Berry phases. (English summary) **2005d:81162**
Chechkin, A. V. *see* **Greenenko, A. A. et al., 2005b:82067**
Chen, W. Q. (*with* Ma, Yinliang; Ding, H. J.) On three-dimensional elastic problems of one-dimensional hexagonal quasicrystal bodies. (English summary)
Chuburin, Yu. P. *see* **Smetanina, M. S., 2005f:81055**
Conti, Sergio (*with* Zanzotto, Giovanni) A variational model for reconstructive phase transformations in crystals, and their relation to dislocations and plasticity. (English summary) **2005d:74028**
Cornwell, J. F. On the structure of icosahedral quasicrystals. (English summary) **2005e:52030**
Daurat, Alain *see* **Brunetti, Sara, 2005j:90043**
Dekimpe, Karel Groups in action: from Euclidean to polynomial crystallographic groups. **2005h:20115**
Ding, H. J. *see* **Chen, W. Q. et al.**
Donev, Aleksandar Nikola (*with* Torquato, Salvatore; Stillinger, Frank H.) Pair correlation function characteristics of nearly jammed disordered and ordered hard-sphere packings. (English summary) **2005m:82055**
D'Souza, Raissa M. (*with* Homsy, George E.; Margolus, Norman H.) Simulating digital logic with the reversible aggregation model of crystal growth. **2005f:82072**
Ericksen, J. L. On the theory of rotation twins in crystal multilattices. (English summary) **2005e:74007**
Fermanian Kammerer, Clotilde (*with* Gérard, Patrick) A Landau-Zener formula for two-scaled Wigner measures. (English summary) **2005g:81102**
Fisher, Benji N. (*with* Rabson, David A.) Applications of group cohomology to the classification of quasicrystal symmetries. (English summary) **2005h:20116**
Fukao, Takesi (*with* Kenmochi, Nobuyuki; Pawłow, Irena) Transmission-Stefan problems arising in Czochralski process of crystal growth. (English summary) **2005c:35300**
Gao, David Yang (*with* Li, Jie-Fang; Viehland, D.) Tri-duality theory in phase transformations of ferroelectric crystals with random defects. (English summary) **2005h:82061**
Gérard, Patrick *see* **Fermanian Kammerer, Clotilde, 2005g:81102**
Gómez-Rodríguez, A. *see* **Torres Hernanz, Manuel et al., 2005c:52020**
Greenenko, A. A. (*with* Chechkin, A. V.; Shul′ga, N. F.) Anomalous diffusion and Lévy flights in channeling. (English summary) **2005b:82067**
von Haeseler, F. *see* **Barbé, A., 2005m:11037**
Homsy, George E. *see* **D'Souza, Raissa M. et al., 2005f:82072**
Kenmochi, Nobuyuki *see* **Fukao, Takesi et al., 2005c:35300**
Knight, F. B. (*with* Steichen, J. L.) An interference problem with application to crystal growth. (English summary) **2005h:60248**
Koch, Elke *see* **Sowa, H.**
Li, Bo[1] (*with* Liu, Jian-Guo[1]) Epitaxial growth without slope selection: energetics, coarsening, and dynamic scaling. (English summary) **2005k:35202**
Li, Jie-Fang *see* **Gao, David Yang et al., 2005h:82061**
Liu, Jian-Guo[1] *see* **Li, Bo[1], 2005k:35202**
Longuet-Higgins, Michael S. Nested triacontahedral shells or how to grow a quasi-crystal. **2005a:52019**
Ma, Yinliang *see* **Chen, W. Q. et al.**
Margolus, Norman H. *see* **D'Souza, Raissa M. et al., 2005f:82072**
Masáková, Zuzana (*with* Patera, Jiří; Zich, J.) Classification of Voronoi and Delone tiles of quasicrystals. III. Decagonal acceptance window of any size. (English summary) **2005j:52025**
Meister, L. (*with* Schaeben, Helmut) A concise quaternion geometry of rotations. (English summary) **2005g:74029**
Mizel, Victor J. (*with* Zaslavski, Alexander J.) Anisotropic functions: a genericity result with crystallographic implications. (English summary) **2005k:49041**
Ohtsuka, Takeshi A level set method for spiral crystal growth. (English summary) **2005b:74097**
Patera, Jiří *see* **Masáková, Zuzana et al., 2005j:52025**
Pawłow, Irena *see* **Fukao, Takesi et al., 2005c:35300**
Pelantová, Edita (*with* Twarock, R.) Tiles in quasicrystals with cubic irrationality. (English summary) **2005b:53066**
Pérez-Garrido, Antonio *see* **Altschuler, Eric Lewin, 2005m:78003**
Rabson, David A. *see* **Fisher, Benji N., 2005h:20116**
Rigot, Séverine Quasiminimal crystals with a volume constraint and uniform rectifiability. (English and French summaries) **2005a:49080**
Schaeben, Helmut *see* **Meister, L., 2005g:74029**
Shul′ga, N. F. *see* **Greenenko, A. A. et al., 2005b:82067**
Sing, Bernd Kolakoski-$(2m, 2n)$ are limit-periodic model sets. (English summary) **2005d:37021**
Smetanina, M. S. (*with* Chuburin, Yu. P.) On the levels of the Schrödinger operator for a crystal film with nonlocal potential. (Russian. Russian summary) **2005f:81055**
Sowa, H. (*with* Koch, Elke) Hexagonal and trigonal sphere packings. III. Trivariant lattice complexes of hexagonal space groups. (English summary)
Steichen, J. L. *see* **Knight, F. B., 2005h:60248**
Stepenshchikov, Dmitry G. *see* **Voĭtekhovskiĭ, Yu. L.**
Stillinger, Frank H. *see* **Donev, Aleksandar Nikola et al., 2005m:82055**
Strungaru, Nicolae Almost periodic measures and long-range order in Meyer sets. (English summary) **2005j:52027**
Torquato, Salvatore *see* **Donev, Aleksandar Nikola et al., 2005m:82055**
Torres Hernanz, Manuel (*with* Aragón, J. L.; Gómez-Rodríguez, A.) Polyhedral truncations as eutactic transformations. (English summary) **2005c:52020**
Twarock, R. *see* **Pelantová, Edita, 2005b:53066**
Viehland, D. *see* **Gao, David Yang et al., 2005h:82061**
Voĭtekhovskiĭ, Yu. L. (*with* Stepenshchikov, Dmitry G.) On the real crystal rhombododecahedra. (English summary)
Zanzotto, Giovanni *see* **Conti, Sergio, 2005d:74028**
Zaslavski, Alexander J. *see* **Mizel, Victor J., 2005k:49041**
Zich, J. *see* **Masáková, Zuzana et al., 2005j:52025**

82D30 Random media, disordered materials (including liquid crystals and spin glasses)

Aksenova, E. V. (*with* Romanov, V. P.; Valkov, A. Yu.) Calculation of correlation function of the director fluctuations in cholesteric liquid crystals by WKB method. (English summary) **2005g:82129**
Altland, Alexander *see* **Gurarie, Victor, 2005f:82133**
Buisson, L. (*with* Ciliberto, S.) Off equilibrium fluctuations in a polymer glass. (English summary)
Ciliberto, S. *see* **Buisson, L.**
Daniel, Muthiah (*with* Gnanasekaran, K.) Director oscillation in a one-dimensional nematic liquid crystal. (English summary) **2005f:82132**
DiDonna, B. A. (*with* Kamien, Randall D.) Smectic blue phases: layered systems with high intrinsic curvature. (English summary) **2005a:82113**
Enss, Tilman (*with* Henkel, Malte; Picone, Alan; Schollwöck, Ulrich) Ageing phenomena without detailed balance: the contact process. (English summary)
Gnanasekaran, K. *see* **Daniel, Muthiah, 2005f:82132**
Gurarie, Victor (*with* Altland, Alexander) Magnon localization in Mattis glass. (English summary) **2005f:82133**
Henkel, Malte *see* **Enss, Tilman et al.** *and* **Ramasco, José J. et al.**
Ivashin, A. P. (*with* Kovalevskiĭ, M. Yu.; Logvinova, L. V.) Hamiltonian dynamics of biaxial nematics taking molecular shapes into account. (Russian. Russian summary) **2005h:82111**
Kamien, Randall D. *see* **DiDonna, B. A., 2005a:82113**
Komazawa, Takayoshi *see* **Seino, Mitsuhiro**
Kovalevskiĭ, M. Yu. *see* **Ivashin, A. P. et al., 2005h:82111**
Loebl, Martin Ground state incongruence in 2D spin glasses revisited. (English summary) **2005h:82112**
Logvinova, L. V. *see* **Ivashin, A. P. et al., 2005h:82111**
Parisi, Giorgio On the probability distribution of the overlap in spin glasses. (English summary) **2005b:82095**
Picone, Alan *see* **Enss, Tilman et al.**
Ramasco, José J. (*with* Henkel, Malte; Santos, Maria Augusta; da Silva Santos, Constantino A.) Ageing in the critical contact process: a Monte Carlo study. (English summary)
Romanov, V. P. *see* **Aksenova, E. V. et al., 2005g:82129**
Santos, Maria Augusta *see* **Ramasco, José J. et al.**
Schollwöck, Ulrich *see* **Enss, Tilman et al.**
Seino, Mitsuhiro (*with* Komazawa, Takayoshi) Continuous distribution of the effective fields and solution of Katsura 11K equation for $\pm J$ random Ising spin glass. (English summary)
da Silva Santos, Constantino A. *see* **Ramasco, José J. et al.**
Valkov, A. Yu. *see* **Aksenova, E. V. et al., 2005g:82129**

Items with secondary classifications in 82D30

Andreanov, A. (*with* Barbieri, Francesca; Martin, O. C.) Large deviations in spin-glass ground-state energies. (English summary) **2005f:82045**
Aspelmeier, T. *see* **Yeo, Joonhyun et al., 2005m:82075**

Balents, Leon (*with* Le Doussal, Pierre) Thermal fluctuations in pinned elastic systems: field theory of rare events and droplets. (English summary) **2005h:82041**
Banach, G. *see* **Lemański, R. et al.**
Barbieri, Francesca *see* **Andreanov, A. et al., 2005f:82045**
Belaidi, Ahmed *see* **Ribotta, Roland et al., 2005e:76008**
Bellissard, Jean Random matrix theory and the Anderson model. (English summary) **2005i:82033**
Berlyand, Leonid (*with* Cioranescu, Doina; Golovaty, Dmitry) Homogenization of a Ginzburg-Landau model for a nematic liquid crystal with inclusions. (English and French summaries) **2005k:35014**
Bolina, Oscar *see* **Wreszinski, Walter F., 2005f:82051**
Calderer, M. Carme *see* **Shen, Quan, 2005h:74057**
Ciliberti, Stefano (*with* Marinari, Enzo) A quantitative clustering approach to ultrametricity in spin glasses. (English summary) **2005b:82040**
Cioranescu, Doina *see* **Berlyand, Leonid et al., 2005k:35014**
Comets, Francis (*with* Zeitouni, Ofer) A law of large numbers for random walks in random mixing environments. (English summary) **2005i:60202**
Constantin, Peter (*with* Kevrekidis, Ioannis G.; Titi, Edriss S.) Remarks on a Smoluchowski equation. (English summary) **2005h:35142**
Contucci, Pierluigi (*with* Graffi, Sandro) On the surface pressure for the Edwards-Anderson model. (English summary) **2005f:82046**
— (*with* Graffi, Sandro) Monotonicity and thermodynamic limit for short range disordered models. (English summary) **2005b:82041**
— (*with* Giardinà, Cristian; Pulé, Joseph V.) The thermodynamic limit for finite dimensional classical and quantum disordered systems. (English summary) **2005b:82017**
— *see also* **Morita, Satoshi et al., 2005c:82047**
Dean, David S. (*with* Lancaster, David; Majumdar, Satya N.) The statistical mechanics of travelling salesman type problems. (English summary) **2005j:82036**
Dotsenko, Viktor S. Infinite range interaction model of a structural glass. (English summary) **2005f:82033**
Eichelsbacher, Peter (*with* Löwe, Matthias) Moderate deviations for the overlap parameter in the Hopfield model. (English summary) **2005i:60042**
van Enter, Aernout C. D. (*with* Shlosman, Senya B.) Provable first-order transitions for nonlinear vector and gauge models with continuous symmetries. (English summary) **2005m:82047**
Franz, Silvio (*with* Toninelli, Fabio Lucio) Finite-range spin glasses in the Kac limit: free energy and local observables. (English summary) **2005g:82061**
— (*with* Toninelli, Fabio Lucio) A field-theoretical approach to the spin glass transition: models with long but finite interaction range. (English summary) **2005h:82060**
Freericks, J. K. *see* **Lemański, R. et al.**
Fried, Eliot (*with* Sellers, Shaun) Free-energy density functions for nematic elastomers. (English summary) **2005a:74006**
Génieys, Stéphane *see* **Vakulenko, S. A. et al.**
Giardinà, Cristian *see* **Contucci, Pierluigi et al., 2005b:82017**
Goldstein, Larry Mark Normal approximation for hierarchical structures. (English summary) **2005h:60064**
Golovaty, Dmitry *see* **Berlyand, Leonid et al., 2005k:35014**
Gorkavenko, Volodymyr M. *see* **Sitenko, Yurii A., 2005k:81381**
Graffi, Sandro *see* **Contucci, Pierluigi, 2005b:82041** *and* **2005f:82046**
Guerra, Francesco (*with* Toninelli, Fabio Lucio) The high temperature region of the Viana-Bray diluted spin glass model. (English summary) **2005d:82053**
(Hartmann, Alexander K.) *see* **New optimization algorithms in physics, 2005d:90004**
den Hollander, Frank (*with* Toninelli, Fabio Lucio) A mystery about to be solved. (English summary)
Jabin, Pierre-Emmanuel (*with* Otto, Felix; Perthame, Benoît) Line-energy Ginzburg-Landau models: zero-energy states. (English summary) **2005k:35070**
Joets, Alain *see* **Ribotta, Roland et al., 2005e:76008**
Kaźmierczak, Bogdan *see* **Vakulenko, S. A. et al.**
Kevrekidis, Ioannis G. *see* **Constantin, Peter et al., 2005h:35142**
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Lancaster, David *see* **Dean, David S. et al., 2005j:82036**
Le Doussal, Pierre *see* **Balents, Leon, 2005h:82041**
Lemański, R. (*with* Freericks, J. K.; Banach, G.) Charge stripes due to electron correlations in the two-dimensional spinless Falicov-Kimball model. (English summary)
Löwe, Matthias *see* **Eichelsbacher, Peter, 2005i:60042**
Lubensky, T. C. *see* **Stenull, Olaf, 2005f:74011**
Majumdar, Apala (*with* Robbins, J. M.; Zyskin, M.) Elastic energy of liquid crystals in convex polyhedra. (English summary) **2005f:58017**
Majumdar, Satya N. *see* **Dean, David S. et al., 2005j:82036**
Marinari, Enzo *see* **Ciliberti, Stefano, 2005b:82040**
Martin, O. C. *see* **Andreanov, A. et al., 2005f:82045**
Montanari, Andrea (*with* Parisi, Giorgio; Ricci-Tersenghi, Federico) Instability of one-step replica-symmetry-broken phase in satisfiability problems. (English summary) **2005b:82049**
Moore, Michael Arthur *see* **Yeo, Joonhyun et al., 2005m:82075**
Morita, Satoshi (*with* Nishimori, Hidetoshi; Contucci, Pierluigi) Griffiths inequalities for the Gaussian spin glass. (English summary) **2005c:82047**
Mukherjee, Arup (*with* Mukherjee, Bagisa) Shear flow in nematic liquid crystals: Fréedericksz transition as a bifurcation. (English summary) **2005m:76015**
Mukherjee, Bagisa *see* **Mukherjee, Arup, 2005m:76015**
Nishimori, Hidetoshi *see* **Morita, Satoshi et al., 2005c:82047**
Otto, Felix *see* **Jabin, Pierre-Emmanuel et al., 2005k:35070**
Panchenko, Dmitriĭ Anatol'evich (*with* Talagrand, Michel) Bounds for diluted mean-fields spin glass models. (English summary) **2005j:82039**
Parisi, Giorgio (*with* Talagrand, Michel) On the distribution of the overlaps at given disorder. (English and French summaries) **2005e:82053**
— (*with* Rizzo, Tommaso) On supersymmetry breaking in the computation of the complexity. (English summary) **2005e:82054**
— *see also* **Montanari, Andrea et al., 2005b:82049**
Pérez Castillo, I. (*with* Skantzos, N. S.) The Little-Hopfield model on a sparse random graph. (English summary) **2005d:82101**
Perthame, Benoît *see* **Jabin, Pierre-Emmanuel et al., 2005k:35070**
Pulé, Joseph V. *see* **Contucci, Pierluigi et al., 2005b:82017**
Rassoul-Agha, Firas On the zero-one law and the law of large numbers for random walk in mixing random environment. (English summary) **2005k:60315**
Ren, Xiaofeng (*with* Wei, Juncheng) The soliton-stripe pattern in the Seul-Andelman membrane. (English summary) **2005e:74023**
Ribotta, Roland (*with* Belaidi, Ahmed; Joets, Alain) Singularities, defects and chaos in organized fluids. (English summary) **2005e:76008**
Ricci-Tersenghi, Federico *see* **Montanari, Andrea et al., 2005b:82049**
(Rieger, Heiko) *see* **New optimization algorithms in physics, 2005d:90004**
Rizzo, Tommaso *see* **Parisi, Giorgio, 2005e:82054**
Robbins, J. M. (*with* Zyskin, M.) Classification of unit-vector fields in convex polyhedra with tangent boundary conditions. (English summary) **2005k:58032**
— *see also* **Majumdar, Apala et al., 2005f:58017**
Rosso, Riccardo (*with* Virga, Epifanio G.; Kralj, Samo) Local elastic stability for nematic liquid crystals. (English summary) **2005j:76006**
Sabot, Christophe Ballistic random walks in random environment at low disorder. (English summary) **2005g:60166**
Saccomandi, Giuseppe *see* **Vitolo, Raffaele, 2005i:74006**
Schilling, Rolf Theories of the structural glass transition. (*see* **2005i:82001**)
Sellers, Shaun *see* **Fried, Eliot, 2005a:74006**
Shen, Quan (*with* Calderer, M. Carme) A relaxed model and its homogenization for nematic liquid crystals in composite materials. (English summary) **2005h:74057**
Shlosman, Senya B. *see* **van Enter, Aernout C. D., 2005m:82047**
Sitenko, Yurii A. (*with* Gorkavenko, Volodymyr M.) Induced quantum numbers of a magnetic vortex at non-zero temperature. (English summary) **2005k:81381**
Skantzos, N. S. *see* **Pérez Castillo, I., 2005d:82101**
Stenull, Olaf (*with* Lubensky, T. C.) Dynamics of nematic elastomers. (English summary) **2005f:74011**
Talagrand, Michel ★ Spin glasses: a challenge for mathematicians. **2005m:82074**
— Mean field models for spin glasses: a first course. **2005b:82045**
— *see also* **Parisi, Giorgio, 2005e:82053** *and* **Panchenko, Dmitriĭ Anatol'evich, 2005j:82039**
Titi, Edriss S. *see* **Constantin, Peter et al., 2005h:35142**
Toninelli, Fabio Lucio *see* **Guerra, Francesco, 2005d:82053**; **Franz, Silvio, 2005g:82061**; **2005h:82060** *and* **den Hollander, Frank**
Vakulenko, S. A. (*with* Kaźmierczak, Bogdan; Génieys, Stéphane) Pattern formation capacity of spatially extended systems. (English summary)
Virga, Epifanio G. *see* **Rosso, Riccardo et al., 2005j:76006**
Vitolo, Raffaele (*with* Saccomandi, Giuseppe) Null Lagrangians in a theory for nematic elastomers. (Russian. English and Russian summaries) **2005i:74006**
Wei, Juncheng *see* **Ren, Xiaofeng, 2005e:74023**
Wreszinski, Walter F. (*with* Bolina, Oscar) A self-averaging "order parameter" for the Sherrington-Kirkpatrick spin glass model. (English summary) **2005f:82051**
Yeo, Joonhyun (*with* Moore, Michael Arthur; Aspelmeier, T.) Nature of perturbation theory in spin glasses. (English summary) **2005m:82075**
Yurinskiĭ, V. V. On the principal eigenvalue of the Schrödinger operator with a scaled random potential. (English summary) **2005b:60162**
Zeitouni, Ofer *see* **Comets, Francis, 2005i:60202**
Zyskin, M. *see* **Majumdar, Apala et al., 2005f:58017** *and* **Robbins, J. M., 2005k:58032**

Items listed otherwise than by author

New optimization algorithms in physics ★ New optimization algorithms in physics. **2005d:90004**

82D35 Metals

De Leo, Roberto Numerical analysis of the Novikov problem of a normal metal in a strong magnetic field. (English summary) **2005c:82092**
Latyshev, Anatoliĭ Vasil'evich (*with* Yushkanov, A. A.) The Smoluchowski problem for electrons in a metal. (Russian. Russian summary)
Mal'tsev, A. Ya. Quasiperiodic functions theory and the superlattice potentials for a two-dimensional electron gas. (English summary) **2005a:82114**
Yushkanov, A. A. *see* **Latyshev, Anatoliĭ Vasil'evich**

Items with secondary classifications in 82D35

Chandrasekharan, S. (*with* Cox, J.; Osborn, J. C.; Wiese, U.-J.) Meron-cluster approach to systems of strongly correlated electrons. (English summary) **2005h:82007**
Cox, J. *see* **Chandrasekharan, S. et al., 2005h:82007**
Kunold, Alejandro (*with* Torres, Manuel) Hofstadter spectrum in electric and magnetic fields. (English summary) **2005j:81213**
Latyshev, Anatoliĭ Vasil'evich (*with* Yushkanov, A. A.) Analytical description of the skin effect in a metal using the two-parameter kinetic equation. (Russian. Russian summary) **2005m:82131**
Osborn, J. C. *see* **Chandrasekharan, S. et al., 2005h:82007**
Torres, Manuel *see* **Kunold, Alejandro, 2005j:81213**
Ueltschi, Daniel Segregation in the asymmetric Hubbard model. (English summary) **2005e:82018**
Wiese, U.-J. *see* **Chandrasekharan, S. et al., 2005h:82007**
Yushkanov, A. A. *see* **Latyshev, Anatoliĭ Vasil'evich, 2005m:82131**

82D37 Semiconductors

Alì, Giuseppe Global existence of smooth solutions of the N-dimensional Euler-Poisson model. (English summary) **2005g:82130**
— (*with* Torcicollo, I.) Time-periodic solutions to hydrodynamical models for semiconductors. (English summary) (*see* **2005c:00016**)
Allegretto, Walter Drift-diffusion equations and applications. (English summary) (*see* **2005f:82134**)

— *see also* **Anile, Angelo Marcello et al., 2005f:82134**
Anile, Angelo Marcello (*with* Allegretto, Walter; Ringhofer, Christian) ★Mathematical problems in semiconductor physics. **2005f:82134**
— (*with* Mascali, G.; Romano, V.) Recent developments in hydrodynamical modeling of semiconductors. (English summary) (*see* **2005f:82134**)
— (*with* Mascali, G.) A two population model for electron transport in Si. (English summary) (*see* **2005c:00016**)
Avdonin, S. A. (*with* Dmitrieva, L. A.; Kuperin, Yu. A.; Sartan, V. V.) Solvable model of spin-dependent transport through a finite array of quantum dots. (English summary) **2005m:82157**
Baro, M. (*with* Ben Abdallah, Naoufel; Degond, Pierre; El Ayyadi, A.) A 1D coupled Schrödinger drift-diffusion model including collisions. (English summary) **2005h:82113**
Ben Abdallah, Naoufel (*with* Tang, Shaoqiang) On hybrid quantum-classical transport models. (English summary) **2005e:82117**
— *see also* **Polizzi, E., 2005g:82131** *and* **Baro, M. et al., 2005h:82113**
Biondini, Stefano (*with* Borgioli, Giovanni) Rigorous derivation of Kane models for interband tunneling. (English summary) (*see* **2005c:00016**)
— (*with* Frosali, Giovanni; Mugelli, Francesco) Quantum hydrodynamic equations for a two-band Wigner-Kane model. (*see* **2005c:00016**)
Blokhin, A. M. (*with* Bushmanov, R. S.; Romano, V.) Asymptotic stability of the equilibrium state for the hydrodynamical model of charge transport in semiconductors based on the maximum entropy principle. (English summary) **2005c:82093**
Bonilla, Luis L. Theory of charge fluctuations and domain relocation times in semiconductor superlattices. (English summary) **2005h:82114**
— *see also* **Goudon, Thierry et al., 2005e:82118** *and* **Escobedo, Ramón et al., (2005a:00022)**
Borgioli, Giovanni *see* **Biondini, Stefano, (2005c:00016)**
Burger, Martin (*with* Engl, Heinz W.; Leitao, A.; Markowich, Peter A.) On inverse problems for semiconductor equations. (English summary) **2005h:82115**
Bushmanov, R. S. *see* **Blokhin, A. M. et al., 2005c:82093**
Cao, Zhuangqi *see* **Ou, Y. C. et al., 2005c:82095**
Chen, Li[7] (*with* Xiao, Ling; Li, Yong[13]) Global existence and asymptotic behavior to the solutions of 1-D Lyumkis energy transport model for semiconductors. (English summary) **2005b:82096**
Chikilëv, A. O. (*with* Krutitskiĭ, P. A.) A mixed boundary value problem in the physics of magnetized semi-conductors in an exterior domain with cuts. (Russian. Russian summary) **2005c:82094**
Chu, Xing Li (*with* Liu, Zi Xin[1]) Double bound polaron in polar semiconductor heterostructures. (Chinese. English and Chinese summaries)
Degond, Pierre (*with* Levermore, C. David; Schmeiser, Christian) A note on the energy-transport limit of the semiconductor Boltzmann equation. (English summary) **2005b:82097**
— *see also* **Baro, M. et al., 2005h:82113**
Dmitrieva, L. A. *see* **Avdonin, S. A. et al., 2005m:82157**
Dzebisashvili, D. M. *see* **Val'kov, V. V. et al.**
El Ayyadi, A. *see* **Baro, M. et al., 2005h:82113**
Engl, Heinz W. *see* **Burger, Martin et al., 2005h:82115**
Escobedo, Ramón (*with* Bonilla, Luis L.; Higuera, Francisco J.) Free boundary problems describing two-dimensional pulse recycling and motion in semiconductors. (English summary) (*see* **2005a:00022**)
Frosali, Giovanni *see* **Biondini, Stefano et al., (2005c:00016)**
Glitzky, A. (*with* Merz, W.) Single dopant diffusion in semiconductor technology. (English summary) **2005a:82115**
Goudon, Thierry (*with* Sanchez Romero, Oscar; Soler, Juan; Bonilla, Luis L.) Low-field limit for a nonlinear discrete drift-diffusion model arising in semiconductor superlattices theory. (English summary) **2005e:82118**
Gualdani, Maria Pia (*with* Jüngel, Ansgar) Analysis of the viscous quantum hydrodynamic equations for semiconductors. (English summary) **2005k:82104**
Higuera, Francisco J. *see* **Escobedo, Ramón et al., (2005a:00022)**
Holst, Stefan (*with* Jüngel, Ansgar; Pietra, Paola) An adaptive mixed scheme for energy-transport simulations of field-effect transistors. (English summary) **2005d:82130**
Hu, Zhi-Ming (*with* Yang, Kai-Hua; Tian, Guang-Shan) On the electron distribution function in quantum dots: a rigorous result. (English summary) **2005f:82135**
Hwang, Tsung-Min (*with* Lin, Wen Wei; Liu, Jinn-Liang; Wang, Weichung) Fixed-point methods for a semiconductor quantum dot model. (English summary)
— (*with* Wang, Weichung) Energy states of vertically aligned quantum dot array with nonparabolic effective mass. (English summary) **2005j:82081**
Jacak, L. *see* **Janutka, A. et al.**
Janutka, A. (*with* Jacak, L.; Krasnyj, J.; Machnikowski, P.) Phonon dephasing of the exciton in InAs/GaAs quantum dots. (English summary)
Jüngel, Ansgar *see* **Holst, Stefan et al., 2005d:82130** *and* **Gualdani, Maria Pia, 2005k:82104**
King, John Robert (*with* Meere, M. G.) The dissociative diffusion mechanism with charge effects. II. Two-dimensional in-diffusion. (English summary) **2005a:82116**
Koç, Ramazan *see* **Tütüncüler, Hayriye et al., 2005g:82132**
Krasnyj, J. *see* **Janutka, A. et al.**
Kravtsov, A. S. *see* **Val'kov, V. V. et al.**
Krutitskiĭ, P. A. *see* **Chikilëv, A. O., 2005c:82094**
Kuperin, Yu. A. *see* **Avdonin, S. A. et al., 2005m:82157**
Leitao, A. *see* **Burger, Martin et al., 2005h:82115**
Levermore, C. David *see* **Degond, Pierre et al., 2005b:82097**
Li, Hai Liang[2] (*with* Lin, Chi-Kun) Zero Debye length asymptotic of the quantum hydrodynamic model for semiconductors. (English summary) **2005m:82158**
Li, Yong[13] *see* **Chen, Li[7] et al., 2005b:82096**
Lin, Chi-Kun *see* **Li, Hai Liang[2], 2005m:82158**
Lin, Wen Wei *see* **Hwang, Tsung-Min et al.**
Liu, Jinn-Liang *see* **Hwang, Tsung-Min et al.**
Liu, Zi Xin[1] *see* **Chu, Xing Li**
Machnikowski, P. *see* **Janutka, A. et al.**
Markowich, Peter A. *see* **Burger, Martin et al., 2005h:82115**
Mascali, G. Mobility in GaAs semiconductors. (English summary) (*see* **2005c:00016**)
— *see also* **Anile, Angelo Marcello et al., 2005f:82134**; **(2005f:82134)** *and* **(2005c:00016)**
Meere, M. G. *see* **King, John Robert, 2005a:82116**
Merz, W. *see* **Glitzky, A., 2005a:82115**
Mugelli, Francesco *see* **Biondini, Stefano et al., (2005c:00016)**
Muscato, Orazio An extended hydrodynamic model for a bipolar junction transistor. (English summary) (*see* **2005c:00016**)
Olğar, Eser *see* **Tütüncüler, Hayriye et al., 2005g:82132**
Ou, Y. C. (*with* Cao, Zhuangqi; Shen, Qishun) Energy eigenvalues for the systems with position-dependent effective mass. (English summary) **2005c:82095**
Pietra, Paola *see* **Holst, Stefan et al., 2005d:82130**
Polizzi, E. (*with* Ben Abdallah, Naoufel) Subband decomposition approach for the simulation of quantum electron transport in nanostructures. (English summary) **2005g:82131**
Rinaldi, Paolo (*with* Schättler, Heinz) Minimization of the base transit time in semiconductor devices using optimal control. (English summary) **2005c:82096**
Ringhofer, Christian Kinetic and gas-dynamic models for semiconductor transport. (English summary) (*see* **2005f:82134**)
— *see also* **Anile, Angelo Marcello et al., 2005f:82134**
Romano, V. (*with* Sellier, J. M.; Torrisi, Mariano) Symmetry analysis and exact invariant solutions for the drift-diffusion model of semiconductors. (English summary)
— *see also* **Blokhin, A. M. et al., 2005c:82093**; **Anile, Angelo Marcello et al., 2005f:82134** *and* **(2005f:82134)**
Sanchez Romero, Oscar *see* **Goudon, Thierry et al., 2005e:82118**
Sartan, V. V. *see* **Avdonin, S. A. et al., 2005m:82157**
Schättler, Heinz *see* **Rinaldi, Paolo, 2005c:82096**
Schmeiser, Christian *see* **Degond, Pierre et al., 2005b:82097**
Sellier, J. M. *see* **Romano, V. et al.**
Shen, Qishun *see* **Ou, Y. C. et al., 2005c:82095**
Soler, Juan *see* **Goudon, Thierry et al., 2005e:82118**
Tang, Shaoqiang *see* **Ben Abdallah, Naoufel, 2005e:82117**
Tian, Guang-Shan *see* **Hu, Zhi-Ming et al., 2005f:82135**
Torcicollo, I. *see* **Alì, Giuseppe, (2005c:00016)**
Torrisi, Mariano *see* **Romano, V. et al.**
Tütüncüler, Hayriye (*with* Koç, Ramazan; Olğar, Eser) Solution of a Hamiltonian of quantum dots with Rashba spin-orbit coupling: quasi-exact solution. (English summary) **2005g:82132**
Val'kov, V. V. (*with* Dzebisashvili, D. M.; Kravtsov, A. S.) On the computation of the spectral intensities of anomalous means in the theory of superconductors with strong electron correlations. (Russian)
Wang, Weichung *see* **Hwang, Tsung-Min et al., 2005j:82081**
Xiao, Ling *see* **Chen, Li[7] et al., 2005b:82096**
Yang, Kai-Hua *see* **Hu, Zhi-Ming et al., 2005f:82135**

Items listed otherwise than by author

Cetraro *see* **Anile, Angelo Marcello et al., 2005f:82134**
Lecture Notes in Mathematics *see* **Anile, Angelo Marcello et al., 2005f:82134**
Mathematical problems in semiconductor physics *see* **Anile, Angelo Marcello et al., 2005f:82134**

Items with secondary classifications in 82D37

Alì, Giuseppe (*with* Bartel, Andreas) Multi-physics models in electric network design. (English summary) (*see* **2005c:00016**)
Anile, Angelo Marcello (*with* Nikiforakis, N.; Romano, V.; Russo, Giovanni) Discretization of semiconductor device problems. II. (English summary)
Aqua, J.-N. (*with* Cornu, F.) Density profiles in a quantum Coulomb fluid near a hard wall. (English summary) **2005f:82024**
Auer, Ch. (*with* Schürrer, F.; Koller, W.) A semicontinuous formulation of the Bloch-Boltzmann-Peierls equations. (English summary) **2005g:82049**
Balint, A. M. *see* **Balint, Şt., 2005g:80004**
Balint, Şt. (*with* Balint, A. M.) Flow field, temperature, and dopant concentration evolution in a Bridgman-Stockbarger crystal growth system in a strictly zero-gravity and a low-gravity environment. (English summary) **2005g:80004**
Baro, M. (*with* Kaiser, H.-Chr.; Neidhardt, H.; Rehberg, J.) A quantum transmitting Schrödinger-Poisson system. (English summary) **2005j:34116**
Bartel, Andreas *see* **Alì, Giuseppe, (2005c:00016)**
Ben Abdallah, Naoufel (*with* Chaker, Hédia) The high field asymptotics for degenerate semiconductors: initial and boundary layer analysis. (English summary) **2005a:35269**
— (*with* Méhats, Florian; Vauchelet, Nicolas) A note on the long time behavior for the drift-diffusion-Poisson system. (English and French summaries) **2005g:35289**
— (*with* Chaker, Hédia) Diffusion induced by grain boundaries: a SHE model. (English summary) **2005g:82120**
Bezrodnykh, S. I. (*with* Vlasov, V. I.) A boundary value problem for modeling physical fields in a semiconductor diode. (Russian. Russian summary) **2005k:35391**
Blokhin, A. M. (*with* Bushmanov, R. S.; Romano, V.) Global existence for the system of the macroscopic balance equations of charge transport in semiconductors. (English summary) **2005k:35392**
Borevich, E. Z. Axially symmetric boundary value problem describing the distribution of charges in semiconductors. (English summary) **2005e:35058**
Bourgade, J. P. (*with* Mellet, Antoine; Mieussens, Luc) Numerical comparison between two spherical harmonics expansion models and a kinetic equation. (English summary) **2005j:82067**
Brezzi, F. (*with* Marini, L. D.; Micheletti, Stefano; Pietra, Paola; Sacco, Riccardo; Wang, Song[1]) Discretization of semiconductor device problems. I.
Bushmanov, R. S. *see* **Blokhin, A. M. et al., 2005k:35392**
Carl, Siegfried (*with* Jerome, Joseph W.) Drift-diffusion in electrochemistry: thresholds for boundary flux and discontinuous optical generation. (English summary) **2005f:35077**
Causin, Paola (*with* Sacco, Riccardo) Mixed-hybrid finite elements for the simulation of thermal oxidation in semiconductors. (English summary)
Chainais-Hillairet, Claire (*with* Peng, Yue-Jun) Finite volume approximation for degenerate drift-diffusion system in several space dimensions. (English summary) **2005d:65133**

Chaker, Hédia *see* **Ben Abdallah, Naoufel, 2005a:35269** *and* **2005g:82120**
Chelikowsky, James R. *see* **Lorin de la Grandmaison, Emmanuel et al., 2005k:65281**
Chen, Ren-Chuen (*with* Liu, Jinn-Liang) Monotone iterative methods for the adaptive finite element solution of semiconductor equations. (English summary) **2005c:65098**
Clees, Tanja (*with* Stüben, Klaus) Algebraic multigrid for industrial semiconductor device simulation. (English summary) (*see* **2005a:65001**)
Coffey, W. T. (*with* Kalmykov, Yu. P.; Waldron, J. T.) ★ The Langevin equation. **2005b:82065**
Cornu, F. *see* **Aqua, J.-N., 2005f:82024**
El Boukili, A. (*with* Madrane, A.; Vaillancourt, Rémi) Unstructured grid adaptation for convection-dominated semiconductor equations. (English summary) **2005a:65147**
Engl, Heinz W. Identification of parameters in polymer crystallization, semiconductor models and elasticity via iterative regularization methods. **2005b:35289**
Flad, Heinz-Jürgen (*with* Hackbusch, Wolfgang; Luo, Hongjun; Kolb, Dietmar) Wavelet approach to quasi two-dimensional extended many-particle systems. I. Supercell Hartree-Fock method. (English summary) **2005m:65321**
Freedman, Michael Hartley (*with* Nayak, Chetan; Shtengel, Kirill; Walker, Kevin; Wang, Zhenghan) A class of P, T-invariant topological phases of interacting electrons. (English summary) **2005f:81225**
Gallego, Samy (*with* Méhats, Florian) Numerical approximation of a quantum drift-diffusion model. (English and French summaries)
Gasser, Ingenuin (*with* Xiao, Ling; Li, Hai Liang^2) Large time behavior of solutions of the bipolar hydrodynamical model for semiconductors. (English summary) **2005c:35274**
Gowda, Shivaraju B. *see* **Lorin de la Grandmaison, Emmanuel et al., 2005k:65281**
Guo, Xiu Lan (*with* Li, Kai Tai) Asymptotic behavior of the drift-diffusion semiconductor equations. (English summary) **2005e:35126**
Hackbusch, Wolfgang *see* **Flad, Heinz-Jürgen et al., 2005m:65321**
Hansen, Olaf (*with* Jüngel, Ansgar) Analysis of a spherical harmonics expansion model of plasma physics. (English summary) **2005d:82126**
Haug, Hartmut (*with* Koch, Stephan W.) ★ Quantum theory of the optical and electronic properties of semiconductors. **2005a:81273**
Hebermehl, Georg (*with* Hübner, Friedrich-Karl; Schlundt, Rainer; Tischler, Thorsten; Zscheile, Horst; Heinrich, Wolfgang) Simulation of microwave and semiconductor laser structures including absorbing boundary conditions. (English summary) (*see* **2005a:65001**)
Heinrich, Wolfgang *see* **Hebermehl, Georg et al., (2005a:65001)**
Hjelm, Mats *see* **Nilsson, Hans-Erik et al.**
Hübner, Friedrich-Karl *see* **Hebermehl, Georg et al., (2005a:65001)**
Hwang, Tsung-Min (*with* Lin, Wen Wei; Wang, Wei-Cheng; Wang, Weichung) Numerical simulation of three dimensional pyramid quantum dot. (English summary) **2005a:81057**
Iotti, Rita C. *see* **Portolan, Stefano et al.**
Jerome, Joseph W. The Cauchy problem for compressible hydrodynamic-Maxwell systems: a local theory for smooth solutions. (English summary) **2005g:76134**
— *see also* **Carl, Siegfried, 2005f:35077**
Ju, Qiangchang Asymptotics of initial boundary value problems of bipolar hydrodynamic model for semiconductors. (English summary) **2005c:76094**
Jüngel, Ansgar (*with* Li, Hai Liang^2) Quantum Euler-Poisson systems: global existence and exponential decay. (English summary) **2005g:82078**
— *see also* **Hansen, Olaf, 2005d:82126**
Kaiser, H.-Chr. *see* **Baro, M. et al., 2005j:34116**
Kalmykov, Yu. P. *see* **Coffey, W. T. et al., 2005b:82065**
Kang, H. S. Adaptive differential game formulation—submicron optical laser. (English summary)
King, John Robert *see* **Meere, M. G., 2005a:35164**
Koch, Stephan W. *see* **Haug, Hartmut, 2005a:81273**
Kolb, Dietmar *see* **Flad, Heinz-Jürgen et al., 2005m:65321**
Koller, W. *see* **Auer, Ch. et al., 2005g:82049**
Krauskopf, Bernd (*with* Oldeman, Bart E.) A planar model system for the saddle-node Hopf bifurcation with global reinjection. (English summary) **2005e:37108**
Li, Hai Liang^2 *see* **Gasser, Ingenuin et al., 2005c:35274** *and* **Jüngel, Ansgar, 2005g:82078**
Li, Kai Tai *see* **Guo, Xiu Lan, 2005e:35126**
Li, Yeping The Cauchy-Neumann problem for a multidimensional nonisentropic hydrodynamic semiconductor model. (English summary) **2005m:35239**
Lin, Wen Wei *see* **Hwang, Tsung-Min et al., 2005a:81057**
Liu, Jinn-Liang *see* **Chen, Ren-Chuen, 2005c:65098**
Lorin de la Grandmaison, Emmanuel (*with* Gowda, Shivaraju B.; Saad, Youcef; Tiago, Murilo L.; Chelikowsky, James R.) Efficient computation of the coupling matrix in time-dependent density functional theory. (English summary) **2005k:65281**
Luo, Hongjun *see* **Flad, Heinz-Jürgen et al., 2005m:65321**
Madrane, A. *see* **El Boukili, A. et al., 2005a:65147**
Marini, L. D. *see* **Brezzi, F. et al.**
Martinez, Antonio *see* **Nilsson, Hans-Erik et al.**
Mattis, Daniel C. Design of a nanomagnet. (English summary) **2005c:82097**
Meere, M. G. (*with* King, John Robert) The dissociative diffusion mechanism with charge effects. I. One-dimensional in-diffusion. (English summary) **2005a:35164**
Méhats, Florian *see* **Ben Abdallah, Naoufel et al., 2005g:35289** *and* **Gallego, Samy**
Mellet, Antoine *see* **Bourgade, J. P. et al., 2005j:82067**
Micheletti, Stefano *see* **Brezzi, F. et al.**
Mieussens, Luc *see* **Bourgade, J. P. et al., 2005j:82067**
Nayak, Chetan *see* **Freedman, Michael Hartley et al., 2005f:81225**
Neidhardt, H. *see* **Baro, M. et al., 2005j:34116**
Nikiforakis, N. *see* **Anile, Angelo Marcello et al.**
Nilsson, Börje Scattering in quantum tubes. (English summary) **2005d:81380**
Nilsson, Hans-Erik (*with* Martinez, Antonio; Hjelm, Mats) Full band Monte Carlo simulation—beyond the semiclassical approach. (English summary)
Oldeman, Bart E. *see* **Krauskopf, Bernd, 2005e:37108**
Ovchinnikov, S. G. *see* **Val'kov, V. V., 2005a:82020**
Peng, Yue-Jun Some asymptotic analysis in steady-state Euler-Poisson equations for potential flow. (English summary) **2005h:82108**
— (*with* Wang, Ya-Guang) Boundary layers and quasi-neutral limit in steady state Euler-Poisson equations for potential flows. (English summary) **2005b:35230**
— *see also* **Chainais-Hillairet, Claire, 2005d:65133**
Pietra, Paola *see* **Brezzi, F. et al.**
Popov, Igor Yu. Asymptotics of bound states, bands and resonances for waveguides and layers coupled through small windows. (English summary) (*see* **2005b:00020**)
Portolan, Stefano (*with* Iotti, Rita C.; Rossi, Fausto) Weighted simulation of steady-state transport within the standard Monte Carlo paradigm. (English summary)
Radžiūnas, M. *see* **Sieber, Jan et al., 2005a:78028**
Rehberg, J. *see* **Baro, M. et al., 2005j:34116**
Riyopoulos, S. Equilibrium bifurcations and chaotic transitions in coupled microlaser lattices. (English summary)
Romano, V. (*with* Valenti, Antonino) On group analysis of a class of energy-transport models of semiconductors in the two dimensional stationary case. (English summary) (*see* **2005c:00016**)
— (*with* Valenti, Antonino) Exact invariant solutions for a class of energy-transport models of semiconductors in the two dimensional stationary case. (English summary)
— *see also* **Blokhin, A. M. et al., 2005k:35392** *and* **Anile, Angelo Marcello et al.**
Rosini, Massimiliano D. Stability of transonic strong shock waves for the one-dimensional hydrodynamic model for semiconductors. (English summary) **2005e:35159**
Rossi, Fausto *see* **Portolan, Stefano et al.**
Russo, Giovanni *see* **Anile, Angelo Marcello et al.**
Saad, Youcef *see* **Lorin de la Grandmaison, Emmanuel et al., 2005k:65281**
Sacco, Riccardo *see* **Causin, Paola** *and* **Brezzi, F. et al.**
Schlundt, Rainer *see* **Hebermehl, Georg et al., (2005a:65001)**
Schneider, Klaus R. *see* **Sieber, Jan et al., 2005a:78028**
Schürrer, F. *see* **Auer, Ch. et al., 2005g:82049**
Shtengel, Kirill *see* **Freedman, Michael Hartley et al., 2005f:81225**
Sieber, Jan (*with* Radžiūnas, M.; Schneider, Klaus R.) Dynamics of multisection semiconductor lasers. (English and Italian summaries) **2005a:78028**
Stüben, Klaus *see* **Clees, Tanja, (2005a:65001)**
Tews, Michael Electronic structure and transport properties of quantum dots. (English summary) **2005g:81363**
Tiago, Murilo L. *see* **Lorin de la Grandmaison, Emmanuel et al., 2005k:65281**
Tischler, Thorsten *see* **Hebermehl, Georg et al., (2005a:65001)**
Ueltschi, Daniel Segregation in the asymmetric Hubbard model. (English summary) **2005e:82018**
Vaillancourt, Rémi *see* **El Boukili, A. et al., 2005a:65147**
Valenti, Antonino *see* **Romano, V., (2005c:00016)**
Val'kov, V. V. (*with* Ovchinnikov, S. G.) ★ Квазичастицы в сильно коррелированных системах. (Russian. Russian summary) [Quasiparticles in strongly correlated systems] **2005a:82020**
Vauchelet, Nicolas *see* **Ben Abdallah, Naoufel et al., 2005g:35289**
Vlasov, V. I. *see* **Bezrodnykh, S. I., 2005k:35391**
Waldron, J. T. *see* **Coffey, W. T. et al., 2005b:82065**
Walker, Kevin *see* **Freedman, Michael Hartley et al., 2005f:81225**
Wang, Song[1] *see* **Brezzi, F. et al.**
Wang, Wei-Cheng *see* **Hwang, Tsung-Min et al., 2005a:81057**
Wang, Weichung *see* **Hwang, Tsung-Min et al., 2005a:81057**
Wang, Ya-Guang *see* **Peng, Yue-Jun, 2005b:35230**
Wang, Zhenghan *see* **Freedman, Michael Hartley et al., 2005f:81225**
Xiao, Ling *see* **Gasser, Ingenuin et al., 2005c:35274**
Xing, Jia Sheng Stationary solutions of drift-diffusion semiconductor equations. (Chinese English and Chinese summaries) **2005g:35283**
Yang, Xiao Song An estimate of topological entropy of N-buffer fluid networks. (English summary) **2005h:37211**
Yuan, Yi Rang Galerkin alternating-direction methods for nonrectangular regions for the transient behavior of a semiconductor device. (English summary) **2005m:65229**
Zscheile, Horst *see* **Hebermehl, Georg et al., (2005a:65001)**

82D40 Magnetic materials

Burton, J. D. *see* **Zhuravlev, M. E. et al.**
Ding, Shi Jin (*with* Guo, Bo Ling) Smooth solution to the 1-dimensional spin equations of antiferromagnets. (English summary) **2005m:82159**
Franco, Victorino *see* **Kákay, Attila et al., 2005e:82119**
Guo, Bo Ling *see* **Ding, Shi Jin, 2005m:82159**
Gutowski, Marek Wojciech *see* **Kákay, Attila et al., 2005e:82119**
Hamdache, Kamel (*with* Tilioua, Mouhcine) Interlayer exchange coupling for ferromagnets through spacers. (English summary) **2005f:82136**
Henkel, Malte Dynamical space-time symmetry for ageing far from equilibrium. (English summary)
Kákay, Attila (*with* Gutowski, Marek Wojciech; Takacs, Laszlo; Franco, Victorino; Varga, L. K.) Langevin granulometry of the particle size distribution. (English summary) **2005e:82119**
Liu, Chein-Shan Lie symmetry of the Landau-Lifshitz-Gilbert equation and exact linearization in the Minkowski space. (English summary) **2005h:82116**
Mattis, Daniel C. Design of a nanomagnet. (English summary) **2005c:82097**
Melcher, Christof Domain wall motion in ferromagnetic layers. (English summary) **2005d:82131**
Mól, Lucas A. S. *see* **Paula, Fagner M. et al., 2005e:82120**
Moser, Roger Boundary vortices for thin ferromagnetic films. (English summary) **2005m:82160**
Paula, Fagner M. (*with* Pereira, Afranio R.; Mól, Lucas A. S.) Diluted planar ferromagnets: nonlinear excitations on a non-simply connected manifold. (English summary) **2005e:82120**
Pereira, Afranio R. *see* **Paula, Fagner M. et al., 2005e:82120**
Podio-Guidugli, Paolo (*with* Tomassetti, Giuseppe) On the evolution of domain walls in hard ferromagnets. (English summary) **2005k:82105**

Su, Y. (*with* Weng, G. J.) The shift of Curie temperature and evolution of ferroelectric domain in ferroelectric crystals. (English summary)
Takács, Jenő ★ Mathematics of hysteretic phenomena. **2005m:82161**
Takacs, Laszlo *see* **Kákay, Attila et al., 2005e:82119**
Tasaki, Hal Ferromagnetism in the Hubbard model: a constructive approach. (English summary) **2005c:82098**
Tilioua, Mouhcine *see* **Hamdache, Kamel, 2005f:82136**
Tomassetti, Giuseppe *see* **Podio-Guidugli, Paolo, 2005k:82105**
(Trowbridge, Bill) *see* **Takács, Jenő, 2005m:82161**
Tsymbal, E. Y. *see* **Zhuravlev, M. E. et al.**
Varga, L. K. *see* **Kákay, Attila et al., 2005e:82119**
Vedyaev, A. V. *see* **Zhuravlev, M. E. et al.**
Weng, G. J. *see* **Su, Y.**
Zhuravlev, M. E. (*with* Burton, J. D.; Vedyaev, A. V.; Tsymbal, E. Y.) A symmetric Green function for the non-collinear magnetic multilayer. (English summary)

Items with secondary classifications in 82D40

Aiki, Toyohiko (*with* Hoffmann, Karl-Heinz[1]; Okazaki, Takanobu) Wellposedness for a new mathematical model for magnetostrictive thin film multilayers. (English summary) **2005h:35330**
Almeida, M. A. (*with* Stuchi, T. J.) Non-integrability of the anisotropic Stormer problem with angular momentum. (English summary) **2005d:70003**
Alouges, François (*with* Conti, Sergio; DeSimone, Antonio; Pokern, Yvo) Energetics and switching of quasi-uniform states in small ferromagnetic particles. (English summary) **2005d:65200**
Bagland, Véronique Well-posedness for the spatially homogeneous Landau-Fermi-Dirac equation for hard potentials. (English summary) **2005i:82060**
Biskup, Marek (*with* Chayes, Lincoln; Nussinov, Z.) Orbital ordering in transition-metal compounds. I. The 120-degree model. (English summary) **2005m:82014**
Chalker, J. T. *see* **Hogan, P. M., 2005g:82084**
Chayes, Lincoln *see* **Biskup, Marek et al., 2005m:82014**
Conti, Sergio *see* **Alouges, François et al., 2005d:65200**
DeSimone, Antonio *see* **Alouges, François et al., 2005d:65200**
Frank, Jason Geometric space-time integration of ferromagnetic materials. (English summary) **2005b:82084**
Giampaolo, S. M. *see* **de Pasquale, F.**
Hoffmann, Karl-Heinz[1] *see* **Aiki, Toyohiko et al., 2005h:35330**
Hogan, P. M. (*with* Chalker, J. T.) Path integrals, diffusion on SU(2) and the fully frustrated antiferromagnetic spin cluster. (English summary) **2005g:82084**
Kružík, Martin *see* **Roubíček, Tomáš, 2005j:78016**
Li, Zhiping (*with* Wu, Xiao Nan) Multi-atomic Young measure and artificial boundary in approximation of micromagnetics. (English summary) **2005f:49096**
Ma, Zhong Qi *see* **Sun, Jian Qiang et al., 2005g:65133**
Moore, Joel E. *see* **Xu, Cenke, 2005k:82013**
Niss, Martin History of the Lenz-Ising model 1920–1950: from ferromagnetic to cooperative phenomena. (English summary) **2005k:82001**
Nobre, Fernando D. (*with* Tsallis, Constantino) Classical infinite-range-interaction Heisenberg ferromagnetic model: metastability and sensitivity to initial conditions. (English summary) **2005b:82058**
Nussinov, Z. *see* **Biskup, Marek et al., 2005m:82014**
Okazaki, Takanobu *see* **Aiki, Toyohiko et al., 2005h:35330**
Ovchinnikov, S. G. *see* **Val'kov, V. V., 2005a:82020**
de Pasquale, F. (*with* Giampaolo, S. M.) Expansion around the mean field in quantum magnetic systems. (English summary)
Pisante, Giovanni Homogenization of micromagnetics large bodies. (English summary) **2005c:35022**
Pokern, Yvo *see* **Alouges, François et al., 2005d:65200**
Popović, Nikola (*with* Praetorius, Dirk) Applications of $\mathscr{H}$-matrix techniques in micromagnetics. (English summary) **2005m:78002**
Praetorius, Dirk Analysis of the operator Δ^{-1} div arising in magnetic models. (English summary) **2005i:35043**
— *see also* **Popović, Nikola, 2005m:78002**
Qin, Meng Zhao *see* **Sun, Jian Qiang et al., 2005g:65133**
Roubíček, Tomáš (*with* Kružík, Martin) Mesoscopic model for ferromagnets with isotropic hardening. (English summary) **2005j:78016**
Sanchez, David Thin layers for the Landau-Lifschitz equation. (English summary) **2005i:35258**
Snoek, Michiel *see* **Zhou, Fei[2], 2005k:82008**
Stuchi, T. J. *see* **Almeida, M. A., 2005d:70003**
Sun, Jian Qiang (*with* Ma, Zhong Qi; Qin, Meng Zhao) RKMK method of solving non-damping LL equations and ferromagnet chain equations. (English summary) **2005g:65133**
Tashpulatov, S. M. One-magnon systems in an isotropic non-Heisenberg ferromagnetic impurity model. (Russian. Russian summary) **2005m:82030**
Tsallis, Constantino *see* **Nobre, Fernando D., 2005b:82058**
Val'kov, V. V. (*with* Ovchinnikov, S. G.) ★ Квазичастицы в сильно коррелированных системах. (Russian. Russian summary) [Quasiparticles in strongly correlated systems] **2005a:82020**
Wang, Li Ping[3] Existence of solution for modified Landau-Lifshitz model. (English summary) **2005m:35295**
Wu, Xiao Nan *see* **Li, Zhiping, 2005f:49096**
Xu, Cenke (*with* Moore, Joel E.) Reduction of effective dimensionality in lattice models of superconducting arrays and frustrated magnets. (English summary) **2005k:82013**
Zhou, Fei[2] (*with* Snoek, Michiel) Spin singlet Mott states and evidence for spin singlet quantum condensates of spin-one bosons in lattices. (English summary) **2005k:82008**

82D50 Superfluids

Accardi, Luidgi (*with* Kozyrev, Sergei) Superfluidity in the stochastic limit. (English summary) **2005f:82137**
Adams, Stefan (*with* Bru, Jean-Bernard) A new microscopic theory of superfluidity at all temperatures. (English summary) **2005g:82133**
Batrouni, G. G. (*with* Ramstad, T.; Hansen, Alex) Free-energy landscape and the critical velocity of superfluid films. (English summary) **2005c:82099**
Berloff, Natalia G. (*with* Roberts, Paul H.) Motions in a Bose condensate. X. New results on the stability of axisymmetric solitary waves of the Gross-Pitaevskii equation. (English summary) **2005h:82117**
Black, Chris Petersen A mathematical verification of the existence of strings of circulation in superfluid films on porous media. (English summary) **2005c:82100**
Bru, Jean-Bernard *see* **Adams, Stefan, 2005g:82133**
Doma, S. B. (*with* Khamis, A. K.; Kabbani, A.) Moment of inertia of the nucleus ^{6}Li in frame work of the translation invariant shell model, the single-particle Schroedinger fluid and the nuclear superfluidity model. (English summary)
Duan, Yi Shi *see* **Zhang, Peng-Ming et al., 2005g:82134**
Giovanazzi, S. Hawking radiation in sonic black holes. (English summary) **2005k:82106**
Hansen, Alex *see* **Batrouni, G. G. et al., 2005c:82099**
Kabbani, A. *see* **Doma, S. B. et al.**
Khamis, A. K. *see* **Doma, S. B. et al.**
Kozyrev, Sergei *see* **Accardi, Luidgi, 2005f:82137**
Kraenkel, Roberto A. *see* **Shchesnovich, V. S., 2005e:82121**
Liu, Xin[5] *see* **Zhang, Peng-Ming et al., 2005g:82134**
Ramstad, T. *see* **Batrouni, G. G. et al., 2005c:82099**
Roberts, Paul H. *see* **Berloff, Natalia G., 2005h:82117**
Shchesnovich, V. S. (*with* Kraenkel, Roberto A.) Vortices in nonlocal Gross-Pitaevskii equation. (English summary) **2005e:82121**
Zhang, Peng-Ming (*with* Duan, Yi Shi; Liu, Xin[5]; Zhong, Cheng-Kui) Knot-like Mermin-Ho vortices in the superfluid ^{3}He-A. (English summary) **2005g:82134**
Zhong, Cheng-Kui *see* **Zhang, Peng-Ming et al., 2005g:82134**

Items with secondary classifications in 82D50

Adams, Stefan (*with* Bru, Jean-Bernard) Exact solution of the AVZ-Hamiltonian in the grand-canonical ensemble. (English summary) **2005g:82007**
Bru, Jean-Bernard *see* **Adams, Stefan, 2005g:82007**
Chiron, David Travelling waves for the Gross-Pitaevskii equation in dimension larger than two. (English summary) **2005i:35242**
(Goldfarb, Steven) *see* **Martin, Philippe André[1], 2005f:81001**
(Jordan, Andrew N.) *see* **Martin, Philippe André[1], 2005f:81001**
Khanna, F. C. *see* **de Montigny, M. et al., 2005e:78008**
(Leach, Samuel) *see* **Martin, Philippe André[1], 2005f:81001**
Li, Hai Liang[2] (*with* Lin, Chi-Kun) Zero Debye length asymptotic of the quantum hydrodynamic model for semiconductors. (English summary) **2005m:82158**
Lin, Chi-Kun *see* **Li, Hai Liang[2], 2005m:82158**
Martin, Philippe André[1] (*with* Rothen, François) ★ Many-body problems and quantum field theory. **2005f:81001**
Maslov, V. P. Allowance for repulsion in a model of high-temperature conductivity and superfluidity of a Bose gas on a crystal base. Phase transition of the zeroth kind. (Russian) **2005k:82020**
de Montigny, M. (*with* Khanna, F. C.; Santana, A. E.) Physical applications of a five-dimensional metric formulation of Galilean invariance. (English summary) **2005e:78008**
Rothen, François *see* **Martin, Philippe André[1], 2005f:81001**
Santana, A. E. *see* **de Montigny, M. et al., 2005e:78008**

82D55 Superconductors

Alama, Stan (*with* Bronsard, Lia) On the second critical field for a Ginzburg-Landau model with ferromagnetic interactions. (English summary) **2005d:82132**
— (*with* Bronsard, Lia) Vortices and the lower critical field for a Ginzburg-Landau model of superconductors with ferromagnetic interactions. (English summary) **2005m:82162**
Almog, Y. The loss of stability of surface superconductivity. (English summary) **2005j:82082**
— Nonlinear surface superconductivity in the large κ limit. (English summary) **2005g:82135**
— Existence and non-existence of solutions to the Ginzburg-Landau equations in a semi-infinite superconducting film. (English summary) **2005k:82107**
Bronsard, Lia *see* **Alama, Stan, 2005d:82132** *and* **2005m:82162**
Chapman, S. J. (*with* Heron, D. R.) A hierarchy of models for superconducting thin films. (English summary) **2005e:82122**
Choksi, R. (*with* Kohn, Robert V.; Otto, Felix) Energy minimization and flux domain structure in the intermediate state of a type-I superconductor. (English summary) **2005e:82123**
Cimmelli, V. A. (*with* Oliveri, Francesco; Pace, A. R.) Thermo-electrodynamics of rigid superconductors. (English summary) **2005i:82063**
Dolocan, Andrei *see* **Dolocan, Voicu Octavian et al.**
Dolocan, Voicu *see* **Dolocan, Voicu Octavian et al.**
Dolocan, Voicu Octavian (*with* Dolocan, Andrei; Dolocan, Voicu) Application of a new Hamiltonian of interaction to vortices structure in superconductors. (English summary)
Du, Qiang (*with* Ju, Lili) Numerical simulations of the quantized vortices on a thin superconducting hollow sphere. (English summary) **2005f:82138**
Dukelsky, Jorge *see* **Sierra, Germán et al., 2005f:82141**
Dunning, Clare (*with* Links, Jon) Integrability of the Russian doll BCS model. (English summary) **2005f:82139**
Giorgi, Tiziana Superconductors surrounded by normal materials. (English summary) **2005m:82163**
Gonczarek, R. (*with* Krzyzosiak, M.; Mulak, M.) Valuation of characteristic ratios for high-T_c superconductors with anisotropic gap in the conformal transformation method. (English summary) **2005a:82117**
Hansson, Thors Hans (*with* Oganesyan, Vadim; Sondhi, S. L.) Superconductors are topologically ordered. (English summary) **2005i:82064**
Helffer, Bernard Semi-classical methods in Ginzburg-Landau theory. (English summary) **2005g:82136**

Heron, D. R. *see* **Chapman, S. J., 2005e:82122**
Ju, Lili *see* **Du, Qiang, 2005f:82138**
Kohn, Robert V. *see* **Choksi, R. et al., 2005e:82123**
Krzyzosiak, M. *see* **Gonczarek, R. et al., 2005a:82117**
Lamacraft, A. (*with* Marchetti, F. M.; Meyer, Julia S.; Moir, R. S.; Simons, B. D.) Critical states in disordered superconducting films. (English summary)
Links, Jon *see* **Dunning, Clare, 2005f:82139**
Marchetti, F. M. *see* **Lamacraft, A. et al.**
Meyer, Julia S. *see* **Lamacraft, A. et al.**
Moir, R. S. *see* **Lamacraft, A. et al.**
Moon, Kyungsun (*with* Pasquier, Vincent; Rim, Chaiho; Yeo, Joonhyun) Non-commutative field theory approach to two-dimensional vortex liquid system. (English summary) **2005d:82133**
Morame, Abderemane (*with* Truc, Françoise) Remarks on the spectrum of the Neumann problem with magnetic field in the half-space. (English summary) **2005i:82065**
Mulak, M. *see* **Gonczarek, R. et al., 2005a:82117**
Nishikawa, Takao Hydrodynamic limit for the Ginzburg-Landau $\nabla\varphi$ interface model with boundary conditions. (English summary) **2005b:82098**
Oganesyan, Vadim *see* **Hansson, Thors Hans et al., 2005i:82064**
Oliveri, Francesco *see* **Cimmelli, V. A. et al., 2005i:82063**
Otto, Felix *see* **Choksi, R. et al., 2005e:82123**
Pace, A. R. *see* **Cimmelli, V. A. et al., 2005i:82063**
Pan, Xing-Bin Surface superconductivity in 3 dimensions. (English summary) **2005a:82118**
Pasquier, Vincent *see* **Moon, Kyungsun et al., 2005d:82133**
Petrina, Dmitro Yakovich Model BCS Hamiltonian and approximating Hamiltonian for an infinite volume. IV. Two branches of their common spectra and states. (English and Ukrainian summaries) **2005b:82099**
— BCS model Hamiltonian of the theory of superconductivity as a quadratic form. (English and Ukrainian summaries) **2005m:82164**
Phillips, Daniel (*with* Shin, Eunjee) On the analysis of a non-isothermal model for superconductivity. (English summary) **2005f:82140**
Richardson, Giles William Similarity solutions to an averaged model for superconducting vortex motion. (English summary) **2005c:82101**
Rim, Chaiho *see* **Moon, Kyungsun et al., 2005d:82133**
Román, José María *see* **Sierra, Germán et al., 2005f:82141**
Romão, Nuno M. (*with* Speight, J. M.) Slow Schrödinger dynamics of gauged vortices. (English summary) **2005g:82137**
Rubinstein, Jacob The zero set of the order parameter in two dimensions. (English summary) **2005h:82118**
— Topological methods in superconductivity.
— (*with* Schatzman, Michelle; Sternberg, Peter) Ginzburg-Landau model in thin loops with narrow constrictions. (English summary) **2005h:82119**
Sauvageot, Myrto Radial solutions for the Ginzburg-Landau equation with applied magnetic field. (English summary) **2005a:82119**
Schatzman, Michelle *see* **Rubinstein, Jacob et al., 2005h:82119**
Shin, Eunjee *see* **Phillips, Daniel, 2005f:82140**
Sierra, Germán (*with* Román, José María; Dukelsky, Jorge) The elementary excitations of the BCS model in the canonical ensemble. (English summary) **2005f:82141**
Sigal, I. M. (*with* Ting, Fridolin) Pinning of magnetic vortices by an external potential. (English summary) **2005b:82100**
Simons, B. D. *see* **Lamacraft, A. et al.**
Sondhi, S. L. *see* **Hansson, Thors Hans et al., 2005i:82064**
Speight, J. M. *see* **Romão, Nuno M., 2005g:82137**
Sternberg, Peter *see* **Rubinstein, Jacob et al., 2005h:82119**
Ting, Fridolin *see* **Sigal, I. M., 2005b:82100**
Truc, Françoise *see* **Morame, Abderemane, 2005i:82065**
Trugenberger, Carlo A. 2D superconductivity: classification of universality classes by infinite symmetry. (English summary) **2005m:82165**
Yang, Yi Song On Pokrovskii's anisotropic gap equations in superconductivity theory. (English summary)
— Mathematical analysis of the multiband BCS gap equations in superconductivity. (English summary) **2005m:82166**
Yeo, Joonhyun *see* **Moon, Kyungsun et al., 2005d:82133**

Items with secondary classifications in 82D55

Akagi, Goro (*with* Ôtani, Mitsuharu) Time-dependent constraint problems arising from macroscopic critical-state models for type-II superconductivity and their approximations. (English summary) **2005h:35331**
Almog, Y. Non-linear surface superconductivity in three dimensions in the large κ limit. (English summary) **2005e:58032**
Bagarello, Fabio The stochastic limit in the analysis of the open BCS model. (English summary) **2005c:82057**
Barresi, A. (*with* Burgio, Giuseppe[2]; D'Elia, M.; Müller-Preussker, M.) A finite temperature investigation of dual superconductivity in the modified $SO(3)$ lattice gauge theory. (English summary)
Batchelor, M. T. (*with* Guan, X. W.; McGuire, James B.) Ground state of 1D bosons with delta interaction: link to the BCS model. (English summary) **2005f:82006**
Bethuel, Fabrice (*with* Orlandi, Giandomenico; Smets, Didier) Vortex rings for the Gross-Pitaevskii equation. (English summary) **2005a:35250**
Botero, Alonso (*with* Reznik, Benni) BCS-like modewise entanglement of fermion Gaussian states. (English summary) **2005d:81036**
Burgio, Giuseppe[2] *see* **Barresi, A. et al.**
Choe, Kwangseok Uniqueness of the topological multivortex solution in the self-dual Chern-Simons theory. (English summary) **2005m:58034**
Comte, Myriam (*with* Sauvageot, Myrto) On the Hessian of the energy form in the Ginzburg-Landau model of superconductivity. (English summary) **2005h:58028**
Continentino, Mucio A. (*with* Ferreira, André S.) Quantum first-order phase transitions. (English summary) **2005d:82037**
D'Elia, M. *see* **Barresi, A. et al.**
Elliott, Charles M. (*with* Kay, David A.; Styles, Vanessa) A finite element approximation of a variational inequality formulation of Bean's model for superconductivity. (English summary) **2005m:65212**
— (*with* Kay, David A.; Styles, Vanessa) Finite element analysis of a current density-electric field formulation of Bean's model for superconductivity. (English summary) **2005m:65213**
Ferreira, André S. *see* **Continentino, Mucio A., 2005d:82037**
Gerisch, Thomas (*with* Honegger, Reinhard; Rieckers, Alfred) Algebraic quantum theory of the Josephson microwave radiator. (English summary) **2005d:81181**
Guan, X. W. *see* **Batchelor, M. T. et al., 2005f:82006**
Heese, Harald An integral equation method for a boundary value problem in superconductivity. (English summary) **2005f:35050**
Honegger, Reinhard *see* **Gerisch, Thomas et al., 2005d:81181**
Jerrard, Robert L. (*with* Montero, Alberto; Sternberg, Peter) Local minimizers of the Ginzburg-Landau energy with magnetic field in three dimensions. (English summary) **2005k:35093**
Jiotsa, A. Kenfack *see* **Mohamadou, Alidou et al.**
Kay, David A. *see* **Elliott, Charles M. et al., 2005m:65212** *and* **2005m:65213**
Kim, Kwang Ik (*with* Liu, Zuhan) Estimate of the upper critical field and concentration for superconductor. (English summary) **2005f:35082**
— (*with* Liu, Zuhan) Estimates of lower critical magnetic field and vortex pinning by inhomogeneities in type II superconductors. (English summary) **2005m:35075**
Kofané, Timoléon C. *see* **Mohamadou, Alidou et al.**
Liu, Zuhan *see* **Kim, Kwang Ik, 2005f:35082** *and* **2005m:35075**
Manton, N. S. (*with* Speight, J. M.) Asymptotic interactions of critically coupled vortices. (English summary) **2005c:58037**
Maslov, V. P. Allowance for repulsion in a model of high-temperature conductivity and superfluidity of a Bose gas on a crystal base. Phase transition of the zeroth kind (Russian) **2005k:82020**
McGuire, James B. *see* **Batchelor, M. T. et al., 2005f:82006**
Mohamadou, Alidou (*with* Jiotsa, A. Kenfack; Kofané, Timoléon C.) Pattern selection and modulational instability in the one-dimensional modified complex Ginzburg-Landau equation. (English summary)
Montero, Alberto *see* **Jerrard, Robert L. et al., 2005k:35093**
Moore, Joel E. *see* **Xu, Cenke, 2005k:82013**
Morita, Yoshihisa Stable solutions to the Ginzburg-Landau equation with magnetic effect in a thin domain. (English summary) **2005h:35324**
Müller-Preussker, M. *see* **Barresi, A. et al.**
Niemi, Antti J. Dual superconductors and SU(2) Yang-Mills. (English summary) **2005h:81218**
Orlandi, Giandomenico *see* **Bethuel, Fabrice et al., 2005a:35250**
Ôtani, Mitsuharu *see* **Akagi, Goro, 2005h:35331**
Prigozhin, Leonid Variational inequalities in critical-state problems. (English summary) **2005g:82094**
Reznik, Benni *see* **Botero, Alonso, 2005d:81036**
Rieckers, Alfred *see* **Gerisch, Thomas et al., 2005d:81181**
Rubinstein, Jacob (*with* Schatzman, Michelle) Spectral properties and symmetries of double coverings of graphs with applications to superconductivity. (English summary) **2005j:34043**
Sandier, Etienne (*with* Serfaty, Sylvia) A product-estimate for Ginzburg-Landau and corollaries. (English summary) **2005e:35047**
— *see also* **Serfaty, Sylvia, 2005g:35069**
Sauvageot, Myrto *see* **Comte, Myriam, 2005h:58028**
Schatzman, Michelle *see* **Rubinstein, Jacob, 2005j:34043**
Serfaty, Sylvia (*with* Sandier, Etienne) Vortices for Ginzburg-Landau equations: with magnetic field versus without. (English summary) **2005g:35069**
— *see also* **Sandier, Etienne, 2005e:35047**
Shi, Yu Quantum entanglement in second-quantized condensed matter systems. (English summary) **2005g:81043**
Smets, Didier *see* **Bethuel, Fabrice et al., 2005a:35250**
Speight, J. M. *see* **Manton, N. S., 2005c:58037**
Sternberg, Peter *see* **Jerrard, Robert L. et al., 2005k:35093**
Styles, Vanessa *see* **Elliott, Charles M. et al., 2005m:65212** *and* **2005m:65213**
Sun, Chiachung *see* **Wei, Liqiang et al., 2005d:82017**
Vizman, Cornelia Central extensions of semidirect products and geodesic equations. (English summary) **2005e:37179**
Wei, Liqiang (*with* Sun, Chiachung; Zeng, Zonghao) Second quantized reduced Bloch equations and the exact solutions for pairing Hamiltonian. (English summary) **2005d:82017**
Wu, Cheng-Li Dynamical symmetry approach to collective motions in many-body systems. (English summary) (*see* **2005b:00031**)
Xu, Cenke (*with* Moore, Joel E.) Reduction of effective dimensionality in lattice models of superconducting arrays and frustrated magnets. (English summary) **2005k:82013**
Zeng, Zonghao *see* **Wei, Liqiang et al., 2005d:82017**

82D60 Polymers

Adleman, Leonard (*with* Cheng, Qi; Goel, Ashish; Huang, Ming-Deh; Wasserman, Hal) Linear self-assemblies: equilibria, entropy and convergence rates. (English summary) **2005f:82142**
Arkın, Handan *see* **Bachmann, Michael et al., 2005k:82108**
Bachmann, Michael (*with* Arkın, Handan; Janke, Wolfhard) Multicanonical study of coarse-grained off-lattice models for folding heteropolymers. (English summary) **2005k:82108**
— *see also* **Schiemann, Reinhard et al., 2005j:82084**
Brunet, Éric (*with* Derrida, Bernard) Exactly soluble noisy traveling-wave equation appearing in the problem of directed polymers in a random medium. (English summary) **2005j:82083**
Capasso, Vincenzo (*with* Escobedo, Ramón; Salani, Claudia) Moving bands and moving boundaries in an hybrid model for the crystallization of polymers. (English summary) **2005a:82120**

Ceniceros, Hector D. (*with* Fredrickson, Glenn H.) Numerical solution of polymer self-consistent field theory. (English summary) **2005h:82120**
Cheng, Qi *see* **Adleman, Leonard et al., 2005f:82142**
Constantin, Peter (*with* Vukadinovic, Jesenko) Note on the number of steady states for a two-dimensional Smoluchowski equation. (English summary) **2005h:82121**
Deguchi, Tetsuo *see* **Yao, Akihisa et al., 2005f:82143**
Derrida, Bernard *see* **Brunet, Éric, 2005j:82083**
Escobedo, Ramón *see* **Capasso, Vincenzo et al., 2005a:82120**
Fasano, Antonio (*with* Mancini, Alberto; Ricci, Riccardo[1]) Solid core revisited. (English summary) **2005b:82101**
Feoli, A. (*with* Nesterenko, Vladimir; Scarpetta, G.) Functionals linear in curvature and statistics of helical proteins. (English summary) **2005h:82122**
Ferrari, Franco Topologically linked polymers are anyon systems. (English summary) **2005h:82123**
Fredrickson, Glenn H. *see* **Ceniceros, Hector D., 2005h:82120**
Frisch, Harry L. *see* **Grosberg, A., 2005b:82102**
Goel, Ashish *see* **Adleman, Leonard et al., 2005f:82142**
Grosberg, A. (*with* Frisch, Harry L.) Corrigendum to: "Winding angle distribution for planar random walk, polymer ring entangled with an obstacle, and all that: Spitzer-Edwards-Prager-Frisch model revisited" [J. Phys. A **36** (2003), no. 34, 8955–8981; MR2008282 (2004h:82113)]. **2005b:82102**
Hamprecht, B. (*with* Janke, Wolfhard; Kleinert, Hagen) End-to-end distribution function of two-dimensional stiff polymers for all persistence lengths. (English summary)
Huang, Ming-Deh *see* **Adleman, Leonard et al., 2005f:82142**
Iliev, Gerasim Kiril (*with* Rechnitzer, Andrew; Whittington, S. G.) Localization of random copolymers and the Morita approximation. (English summary) **2005h:82124**
Inami, Takeo *see* **Yao, Akihisa et al., 2005f:82143**
Janke, Wolfhard *see* **Schiemann, Reinhard et al., 2005j:82084**; **Bachmann, Michael et al., 2005k:82108** *and* **Hamprecht, B. et al.**
Kierfeld, Jan (*with* Lipowsky, Reinhard) Duality mapping and unbinding transitions of semiflexible and directed polymers. (English summary) **2005i:82066**
Kleinert, Hagen *see* **Hamprecht, B. et al.**
Lipowsky, Reinhard *see* **Kierfeld, Jan, 2005i:82066**
Luo, Chong (*with* Zhang, Hui[1]; Zhang, Ping Wen) The structure of equilibrium solutions of the one-dimensional Doi equation. (English summary) **2005g:82138**
Mancini, Alberto *see* **Fasano, Antonio et al., 2005b:82101**
Marcone, B. (*with* Orlandini, E.; Stella, A. L.; Zonta, F.) What is the length of a knot in a polymer? (English summary) **2005i:82067**
Marenduzzo, D. (*with* Micheletti, C.; Seyed-allaei, H.; Trovato, A.; Maritan, A.) Continuum model for polymers with finite thickness. (English summary) **2005m:82167**
Maritan, A. *see* **Marenduzzo, D. et al., 2005m:82167**
Micheletti, C. *see* **Marenduzzo, D. et al., 2005m:82167**
Nechaev, Sergei *see* **Vasilyev, Oleg A., 2005c:82103**
Nelson, Philip C. *see* **Wiggins, Paul A. et al., 2005m:82168**
Nesterenko, Vladimir *see* **Feoli, A. et al., 2005h:82122**
Orlandini, E. (*with* Whittington, S. G.) Pulling a polymer at an interface: directed walk models. (English summary) **2005c:82102**
— (*with* Stella, A. L.; Vanderzande, C.) Loose, flat knots in collapsed polymers.
— *see also* **Marcone, B. et al., 2005i:82067**
Phillips, Rob *see* **Wiggins, Paul A. et al., 2005m:82168**
Rechnitzer, Andrew *see* **Iliev, Gerasim Kiril et al., 2005h:82124**
Ren, Xiaofeng (*with* Wei, Juncheng) Triblock copolymer theory: ordered ABC lamellar phase. (English summary) **2005d:82134**
— (*with* Wei, Juncheng) Stability of spot and ring solutions of the diblock copolymer equation. (English summary) **2005h:82125**
Ricci, Riccardo[1] *see* **Fasano, Antonio et al., 2005b:82101**
Salani, Claudia *see* **Capasso, Vincenzo et al., 2005a:82120**
Scarpetta, G. *see* **Feoli, A. et al., 2005h:82122**
Schiemann, Reinhard (*with* Bachmann, Michael; Janke, Wolfhard) Exact enumeration of three-dimensional lattice proteins. (English summary) **2005j:82084**
Seyed-allaei, H. *see* **Marenduzzo, D. et al., 2005m:82167**
Stella, A. L. *see* **Marcone, B. et al., 2005i:82067** *and* **Orlandini, E. et al.**
Trovato, A. *see* **Marenduzzo, D. et al., 2005m:82167**
Tsukahara, Hiroshi *see* **Yao, Akihisa et al., 2005f:82143**
Vanderzande, C. *see* **Orlandini, E. et al.**
Vasilyev, Oleg A. (*with* Nechaev, Sergei) On topological correlations in trivial knots: new arguments for the use of a representation of an entangled polymer globule. (Russian. Russian summary) **2005c:82103**
Vukadinovic, Jesenko *see* **Constantin, Peter, 2005h:82121**
Wasserman, Hal *see* **Adleman, Leonard et al., 2005f:82142**
Wei, Juncheng *see* **Ren, Xiaofeng, 2005d:82134** *and* **2005h:82125**
Whittington, S. G. *see* **Orlandini, E., 2005c:82102** *and* **Iliev, Gerasim Kiril et al., 2005h:82124**
Wiggins, Paul A. (*with* Phillips, Rob; Nelson, Philip C.) Exact theory of kinkable elastic polymers. (English summary) **2005m:82168**
Yao, Akihisa (*with* Tsukahara, Hiroshi; Deguchi, Tetsuo; Inami, Takeo) Distribution of the distance between opposite nodes of random polygons with a fixed knot. (English summary) **2005f:82143**
Zhang, Hui[1] *see* **Luo, Chong et al., 2005g:82138**
Zhang, Ping Wen *see* **Luo, Chong et al., 2005g:82138**
Zheng, Lie The discrete coagulation equations with an elastic collision. (English and Chinese summaries)
Zonta, F. *see* **Marcone, B. et al., 2005i:82067**

Items with secondary classifications in 82D60

Balaeff, Alexander (*with* Koudella, Christophe R.; Mahadevan, L.; Schulten, Klaus) Modelling DNA loops using continuum and statistical mechanics. (English summary) **2005c:92019**
Bodineau, Thierry (*with* Giacomin, Giambattista) On the localization transition of random copolymers near selective interfaces. (English summary) **2005g:82057**
Bolthausen, Erwin (*with* Giacomin, Giambattista) Periodic copolymers at selective interfaces: a large deviations approach. (English summary) **2005m:60226**
Brizhik, L. (*with* Eremko, Aleksandr Aleksandrovich; Piette, B. M. A. G.; Zakrzewski, Wojciech J.) Solitons in α-helical proteins. (English summary) **2005k:92023**
Brydges, David C. (*with* Imbrie, John Z.) Branched polymers and dimensional reduction. (English summary) **2005c:82051**
Capasso, Vincenzo *see* **Escobedo, Ramón, 2005j:80002**
Carmona, Philippe (*with* Hu, Yueyun) Fluctuation exponents and large deviations for directed polymers in a random environment. (English summary) **2005f:60218**
Cavalcanti, Welchy L. *see* **Serra, Pablo et al., 2005d:82046**
Celani, Antonio (*with* Musacchio, S.; Vincenzi, D.) Polymer transport in random flow. (English summary) **2005i:76061**
Cervera Montesinos, Javier *see* **García-Morales, V. et al., 2005d:82008**
Cohen, E. G. D. (*with* Mauzerall, David) A note on the Jarzynski equality. (English summary) **2005m:82083**
Collet, Jean-François (*with* Goudon, Thierry; Hariz, Sara; Poupaud, Frédéric; Vasseur, Alexis) Some recent results on the kinetic theory of phase transitions. (English summary) **2005g:82096**
Comets, Francis (*with* Shiga, Tokuzo; Yoshida, Nobuo) Probabilistic analysis of directed polymers in a random environment: a review. (English summary) **2005d:82050**
Engl, Heinz W. Identification of parameters in polymer crystallization, semiconductor models and elasticity via iterative regularization methods. **2005b:35289**
Eremko, Aleksandr Aleksandrovich *see* **Brizhik, L. et al., 2005k:92023**
Escobedo, Ramón (*with* Capasso, Vincenzo) Moving bands and moving boundaries with decreasing speed in polymer crystallization. (English summary) **2005j:80002**
García-Morales, V. (*with* Cervera Montesinos, Javier; Pellicer, J.) Coupling theory for counterion distributions based in Tsallis statistics. (English summary) **2005d:82008**
Giacomin, Giambattista *see* **Bodineau, Thierry, 2005g:82057** *and* **Bolthausen, Erwin, 2005m:60226**
Gopalakrishnan, Manoj (*with* Schmittmann, B.; Zia, R. K. P.) Bond percolation of polymers. (English summary)
Goudon, Thierry *see* **Collet, Jean-François et al., 2005g:82096**
Grassberger, Peter *see* **Hsu, Hsiao-Ping et al., 2005i:82036**
Han, Dong (*with* Han, Yian-lin) Gelation of a reversible Markov process of polymerization. (English summary) **2005j:82027**
Han, Yian-lin *see* **Han, Dong, 2005j:82027**
Hariz, Sara *see* **Collet, Jean-François et al., 2005g:82096**
Hsu, Hsiao-Ping (*with* Nadler, Walter; Grassberger, Peter) Simulations of lattice animals and trees. (English summary) **2005i:82036**
Hu, Yueyun *see* **Carmona, Philippe, 2005f:60218**
Imbrie, John Z. *see* **Brydges, David C., 2005c:82051**
Janse van Rensburg, E. J. (*with* Rechnitzer, Andrew) Multiple Markov chain Monte Carlo study of adsorbing self-avoiding walks in two and in three dimensions. (English summary)
— *see also* **Rechnitzer, Andrew, 2005b:05016**
Jourdain, Benjamin (*with* Lelièvre, Tony) Mathematical analysis of a stochastic differential equation arising in the micro-macro modelling of polymeric fluids. (English summary) **2005h:60184**
Katori, Makoto (*with* Tanemura, Hideki) Functional central limit theorems for vicious walkers. (English summary) **2005b:82034**
Koudella, Christophe R. *see* **Balaeff, Alexander et al., 2005c:92019**
Lelièvre, Tony *see* **Jourdain, Benjamin, 2005h:60184**
Li, Tiejun (*with* Zhang, Ping Wen; Zhou, Xiang) Analysis of 1 + 1 dimensional stochastic models of liquid crystal polymer flows. (English summary) **2005j:76005**
Liang, Jin-Rong *see* **Ren, Fu-Yao et al., 2005e:82087**
Machado, Kleber D. *see* **Serra, Pablo et al., 2005d:82046**
Mahadevan, L. *see* **Balaeff, Alexander et al., 2005c:92019**
Mauzerall, David *see* **Cohen, E. G. D., 2005m:82083**
Mejane, Olivier Upper bound of a volume exponent for directed polymers in a random environment. (English and French summaries) **2005e:60239**
Musacchio, S. *see* **Celani, Antonio et al., 2005i:76061**
Nadler, Walter *see* **Hsu, Hsiao-Ping et al., 2005i:82036**
Orlandini, E. (*with* Tesi, M. C.; Whittington, S. G.) Corrigendum: "A self-avoiding walk model of random copolymer adsorption" [J. Phys. A **32** (1999), no. 3, 469–477; MR1670235 (99m:82028)]. **2005k:82030**
Pellicer, J. *see* **García-Morales, V. et al., 2005d:82008**
Piette, B. M. A. G. *see* **Brizhik, L. et al., 2005k:92023**
Poupaud, Frédéric *see* **Collet, Jean-François et al., 2005g:82096**
Qiu, Wei-Yuan *see* **Ren, Fu-Yao et al., 2005e:82087**
Rechnitzer, Andrew (*with* Janse van Rensburg, E. J.) Exchange relations, Dyck paths and copolymer adsorption. (English summary) **2005b:05016**
— *see also* **Janse van Rensburg, E. J.**
Ren, Fu-Yao (*with* Qiu, Wei-Yuan; Xu, Yun[3]; Liang, Jin-Rong) Answer to an open problem proposed by E. Barkai and J. Klafter. (English summary) **2005e:82087**
Ren, Xiaofeng (*with* Wei, Juncheng) The soliton-stripe pattern in the Seul-Andelman membrane. (English summary) **2005e:74023**
Ristić, Vladimir Miroslav *see* **Todorović, D. R. et al., 2005e:92019**
Ristovski, Lj. M. *see* **Todorović, D. R. et al., 2005e:92019**
Schmittmann, B. *see* **Gopalakrishnan, Manoj et al.**
Schulten, Klaus *see* **Balaeff, Alexander et al., 2005c:92019**
Serra, Pablo (*with* Stilck, Jürgen F.; Cavalcanti, Welchy L.; Machado, Kleber D.) Polymers with attractive interactions on the Husimi lattice. (English summary) **2005d:82046**
Shiga, Tokuzo *see* **Comets, Francis et al., 2005d:82050**
Soteros, C. E. (*with* Whittington, S. G.) The statistical mechanics of random copolymers. (English summary) **2005g:82054**
Stilck, Jürgen F. *see* **Serra, Pablo et al., 2005d:82046**
Tanemura, Hideki *see* **Katori, Makoto, 2005b:82034**
Tesi, M. C. *see* **Orlandini, E. et al., 2005k:82030**
Todorović, D. R. (*with* Ristovski, Lj. M.; Ristić, Vladimir Miroslav) Propagation of the soliton in a non-periodic protein chain. (English summary) **2005e:92019**

Vasseur, Alexis *see* **Collet, Jean-François et al., 2005g:82096**
Vincenzi, D. *see* **Celani, Antonio et al., 2005i:76061**
Wei, Juncheng *see* **Ren, Xiaofeng, 2005e:74023**
Whittington, S. G. *see* **Soteros, C. E., 2005g:82054** *and* **Orlandini, E. et al., 2005k:82030**
Xu, Yun[3] *see* **Ren, Fu-Yao et al., 2005e:82087**
Yoshida, Nobuo *see* **Comets, Francis et al., 2005d:82050**
Zakrzewski, Wojciech J. *see* **Brizhik, L. et al., 2005k:92023**
Zhang, Ping Wen *see* **Li, Tiejun et al., 2005j:76005**
Zhou, Xiang *see* **Li, Tiejun et al., 2005j:76005**
Zia, R. K. P. *see* **Gopalakrishnan, Manoj et al.**

82D75 Nuclear reactor theory; neutron transport

Abramov, B. D. Some extension of Marchuk's multigroup method. (English summary) **2005j:82085**
Latrach, Khalid (*with* Taoudi, M. Aziz) Spectral analysis of a class of multigroup neutron transport operators in slab geometry. (English summary) **2005b:82103**
Makai, Mihály Spatial transients in finite volumes. (English summary)
Taoudi, M. Aziz *see* **Latrach, Khalid, 2005b:82103**

Items with secondary classifications in 82D75

Cheremnykh, E. V. *see* **Diaba, F., 2005k:47103**
Diaba, F. (*with* Cheremnykh, E. V.) On the point spectrum of transport operator. (English summary) **2005k:47103**
Mokhtar-Kharroubi, Mustapha On the convex compactness property for the strong operator topology and related topics. (English summary) **2005e:47049**
Neumanová, Eva Application of the PCG method in solution of a nuclear reactor criticality problem. (*see* **2005c:65003**)
Nifanova, A. V. *see* **Troshchiev, V. E. et al., 2005e:65138**
Sengupta, Ashok Toward a theory of chaos. (English summary) **2005c:37058**
Troshchiev, V. E. (*with* Nifanova, A. V.; Troshchiev, Yu. V.) A characteristic approach to the approximation of conservation laws in kinetic radiative transfer equations. (Russian) **2005e:65138**
Troshchiev, Yu. V. *see* **Troshchiev, V. E. et al., 2005e:65138**

82D99 None of the above, but in this section

Cooper, Kevin D. *see* **Pansuwan, A. et al., 2005m:82169**
Harrison, L. *see* **Pansuwan, A. et al., 2005m:82169**
Kuchment, Peter Differential and pseudo-differential operators on graphs as models of mesoscopic systems. (English summary) **2005b:82104**
Lenbury, Yongwimon *see* **Pansuwan, A. et al., 2005m:82169**
Pansuwan, A. (*with* Rattanakul, C.; Lenbury, Yongwimon; Wollkind, D. J.; Harrison, L.; Rajapakse, I.; Cooper, Kevin D.) Nonlinear stability analyses of pattern formation on solid surfaces during ion-sputtered erosion. (English summary) **2005m:82169**
Rajapakse, I. *see* **Pansuwan, A. et al., 2005m:82169**
Rattanakul, C. *see* **Pansuwan, A. et al., 2005m:82169**
Wollkind, D. J. *see* **Pansuwan, A. et al., 2005m:82169**

Items with secondary classifications in 82D99

Borucki, Len *see* **Wilkening, Jon et al., 2005h:35343** *and* **2005h:35344**
Chernov, Nikolai I. On a slow drift of a massive piston in an ideal gas that remains at mechanical equilibrium. (English summary) **2005k:80002**
Sethian, J. A. *see* **Wilkening, Jon et al., 2005h:35343** *and* **2005h:35344**
Wilkening, Jon (*with* Borucki, Len; Sethian, J. A.) Analysis of stress-driven grain boundary diffusion. (English summary) **2005h:35343**
— (*with* Borucki, Len; Sethian, J. A.) Analysis of stress-driven grain boundary diffusion. II. Degeneracy. (English summary) **2005h:35344**

83–XX Relativity and gravitational theory

83–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Items with secondary classifications in 83–00

(Bagger, Jonathan) *see* **Concise encyclopedia of supersymmetry and noncommutative structures in mathematics and physics, 2005m:81001**
(Duplij, S. A.) *see* **Concise encyclopedia of supersymmetry and noncommutative structures in mathematics and physics, 2005m:81001**
Guts, A. K. ★ Элементы теории времени. (Russian) [Elements of the theory of time] **2005k:83001**
(Siegel, Warren) *see* **Concise encyclopedia of supersymmetry and noncommutative structures in mathematics and physics, 2005m:81001**

Items listed otherwise than by author

Concise encyclopedia of supersymmetry and noncommutative structures in mathematics and physics ★ Concise encyclopedia of supersymmetry and noncommutative structures in mathematics and physics. **2005m:81001**

83–01 Instructional exposition (textbooks, tutorial papers, etc.)

Greene, Brian R. ★ The fabric of the cosmos. **2005d:83001**
Guts, A. K. ★ Элементы теории времени. (Russian) [Elements of the theory of time] **2005k:83001**
Poisson, Eric ★ A relativist's toolkit. **2005d:83002**
Schäfer, Gerhard Gravitation: geometry and dynamics. (English summary) **2005m:83001**
Schwarz, John H. *see* **Schwarz, Patricia M., 2005b:83001**
Schwarz, Patricia M. (*with* Schwarz, John H.) ★ Special relativity. **2005b:83001**
Straumann, Norbert ★ General relativity. **2005m:83002**

Items with secondary classifications in 83–01

(Cohen-Tannoudji, Claude) *see* **Simon, Yvan, 2005f:83006**
Fukuma, M. (*with* Itoyama, Hiroshi; Nakatsu, Toshio; Tsuchiya, Asato) Preface [String theory].
Itoyama, Hiroshi *see* **Fukuma, M. et al.**
Nakatsu, Toshio *see* **Fukuma, M. et al.**
Simon, Yvan ★ Relativité restreinte. (French) [Special relativity] **2005f:83006**
Szekeres, Peter ★ A course in modern mathematical physics. **2005h:00001**
Thorne, Kip Warping spacetime. (*see* **2005j:83002**)
Tsuchiya, Asato *see* **Fukuma, M. et al.**

83–02 Research exposition (monographs, survey articles)

Hall, G. S. ★ Symmetries and curvature structure in general relativity. **2005j:83001**
Hartle, James B. Theories of everything and Hawking's wave function of the universe. (*see* **2005j:83002**)
Ortín, Tomás ★ Gravity and strings. **2005g:83001**
Penrose, Roger ★ The road to reality. **2005k:83002**
Susskind, Leonard Twenty years of debate with Stephen. (*see* **2005j:83002**)

Items with secondary classifications in 83–02

Barrabès, Claude (*with* Hogan, P. A.) ★ Singular null hypersurfaces in general relativity. **2005b:83016**
(Beem, John K.) *see* **Ehrlich, Paul Ewing, 2005k:53001**
Damour, Thibault The entropy of black holes: a primer. (English summary) **2005d:83068**
Easley, Kevin L. *see* **Ehrlich, Paul Ewing, 2005k:53001**
Ehrlich, Paul Ewing (*with* Easley, Kevin L.) A Beemian sampler: 1966–2002. (English summary) **2005k:53001**
Font, José A. Numerical hydrodynamics in general relativity. (English summary) **2005a:83001**
Gibbons, Gary W. Euclidean quantum gravity: the view from 2002. (*see* **2005j:83002**)
Hogan, P. A. *see* **Barrabès, Claude, 2005b:83016**
Manoff, Sawa ★ Geometry and mechanics in different models of space-time: dynamics and applications. **2005k:58030**
Padmanabhan, T. Gravity and the thermodynamics of horizons. (English summary) **2005m:83075**

83–03 Historical (must also be assigned at least one classification number from Section 01)

Bain, Jonathan Theories of Newtonian gravity and empirical indistinguishability. (English summary) **2005i:83001**
Davies, Paul C. W. John Archibald Wheeler and the clash of ideas.
(Einstein, Albert) *see* **Parker, Barry, 2005h:83001** *and* **Janssen, Michel, 2005k:83003**
(Fridman, Aleksandr Aleksandrovich) *see* **Jung, Tobias**
Gibbons, Gary W. (*with* Shellard, E. P. S.) Introduction. (*see* **2005j:83002**)
Goenner, Hubert F. M. On the history of unified field theories. (English summary) **2005g:83002**
Hawking, Stephen Sixty years in a nutshell. (*see* **2005j:83002**)
Janssen, Michel Of pots and holes: Einstein's bumpy road to general relativity. **2005k:83003**
Jung, Tobias Friedmann und Lemaître: 'Väter des Urknalls'? Ein vergleich ihrer kosmologischen Arbeiten aus den 1920er Jahren. (English and German summaries) [Friedmann and Lemaître: fathers of the big bang? A comparison of their cosmological work in the 1920s]
Kostro, Ludwik Albert Einstein's new ether and his general relativity. (English summary) (*see* **2005i:00015**)
(Lemaître, G. E.) *see* **Jung, Tobias**
Lo, Chung-Yin On criticisms of Einstein's equivalence principle. (English and French summaries)
Parker, Barry ★ Albert Einstein's vision. **2005h:83001**
Reignier, Jean De l'éther de Fresnel à la relativité restreinte. (English and French summaries) [From Fresnel's ether to special relativity] **2005g:83003**
Rivadulla, Andrés The Newtonian limit of relativity theory and the rationality of theory change. (English summary) **2005h:83002**
Rowe, David E. The mathematicians' happy hunting ground: Einstein's general theory of relativity. **2005e:83001**
Shellard, E. P. S. *see* **Gibbons, Gary W., (2005j:83002)**
(Wheeler, John Archibald) *see* **Davies, Paul C. W.**

Items with secondary classifications in 83–03

Aleksandrov, Aleksandr Danilovich (*with* Idlis, G. M.) The contribution of V. A. Fok to the relativistic theory of space, time and gravity. (Russian. English and Russian summaries) (*see* **2005b:01005**)
Arminjon, Mayeul Gravity as Archimedes' thrust and a bifurcation in that theory. (English summary)
von Borzeszkowski, Horst-Heino (*with* Treder, Hans-Jürgen) On metric and matter in unconnected, connected, and metrically connected manifolds. (English summary) **2005m:83099**
Cronström, Christofer Gunnar Nordström, 1881–1923. (English summary) (*see* **2005f:83002**)
Earman, John Laws, symmetry, and symmetry breaking: invariance, conservation principles, and objectivity. (English summary)
(Einstein, Albert) *see* **Norton, John D., 2005g:01026** *and* **Engler, Gideon, 2005k:00012**
Engler, Gideon Einstein, his theories, and his aesthetic considerations. (English summary) **2005k:00012**
Fok, N. V. Vladimir Aleksandrovich Fok (a biographical sketch). (Russian. English and Russian summaries) (*see* **2005b:01005**)
(Fok, Vladimir Aleksandrovich) *see* **Fok, N. V., (2005b:01005); Aleksandrov, Aleksandr Danilovich, (2005b:01005)** *and* **Gorelik, G. E., (2005b:01005)**
Gimbel, Steven Un-conventional widsom: theory-specificity in Reichenbach's geometric conventionalism. (English summary)
Gorelik, G. E. Vladimir Aleksandrovich Fok: a philosophical lesson on the history of physics. (Russian. English and Russian summaries) (*see* **2005b:01005**)
Hao, Liu Xiang Weyl's unified field theory and its influence. (Chinese. English and Chinese summaries) **2005e:81003**
Healey, Richard Change without change, and how to observe it in general relativity. (English summary) **2005k:00007**
Idlis, G. M. *see* **Aleksandrov, Aleksandr Danilovich, (2005b:01005)**
Martínez, Alberto A. Conventions and inertial reference frames. (English summary) **2005m:83008**
Mermin, N. David From Einstein's 1905 postulates to the geometry of flat space-time. (English summary) **2005k:83007**
(Nordström, Gunnar) *see* **Cronström, Christofer, (2005f:83002)**
Norton, John D. Einstein's investigations of Galilean covariant electrodynamics prior to 1905. (English summary) **2005g:01026**
Renn, Jürgen The relativity revolution from the perspective of historical epistemology. (English summary) **2005m:01021**
Scholz, Erhard Hermann Weyl's analysis of the "problem of space" and the origin of gauge structures. (English summary)
Treder, Hans-Jürgen *see* **von Borzeszkowski, Horst-Heino, 2005m:83099**
(Weyl, Hermann) *see* **Scholz, Erhard**

Items listed otherwise than by author

Biography:
Fok, Vladimir Aleksandrovich *see* **Fok, N. V., (2005b:01005)**
Nordström, Gunnar *see* **Cronström, Christofer, (2005f:83002)**

83–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 83–04

Font, José A. Numerical hydrodynamics in general relativity. (English summary) **2005a:83001**
Ishak, Mustapha (*with* Lake, Kayll) Inverse approach to Einstein's equations for nonconducting fluids. (English summary) **2005e:83006**
Lake, Kayll *see* **Ishak, Mustapha, 2005e:83006**
Stergioulas, Nikolaos Rotating stars in relativity. (English summary) **2005b:83054**
Thornburg, Jonathan Black-hole excision with multiple grid patches. (English summary) **2005f:83004**

83–05 Experimental work

Items with secondary classifications in 83–05

Wu, Ning Quantum gauge general relativity. (English summary) **2005h:83080**

83–06 Proceedings, conferences, collections, etc.

(Asorey, Manuel) *see* **Renormalization group and anomalies in gravity and cosmology**
(Chruściel, Piotr T.) *see* **Einstein equations and the large scale behavior of gravitational fields, 2005f:83001**
(Cronström, Christofer) *see* **Proceedings: Symposium on Theoretical Physics, Gunnar Nordström, 2005f:83002**
(Friedrich, Helmut) *see* **Einstein equations and the large scale behavior of gravitational fields, 2005f:83001**

(Gibbons, Gary W.) *see* **Future of theoretical physics and cosmology**, 2005j:83002
(Hawking, Stephen) *see* **Future of theoretical physics and cosmology**, 2005j:83002
(Montonen, Claus) *see* **Proceedings: Symposium on Theoretical Physics, Gunnar Nordström**, 2005f:83002
(Nordström, Gunnar) *see* **Proceedings: Symposium on Theoretical Physics, Gunnar Nordström**, 2005f:83002
(Rankin, S. J.) *see* **Future of theoretical physics and cosmology**, 2005j:83002
(Shapiro, Ilya L.) *see* **Renormalization group and anomalies in gravity and cosmology**
(Shellard, E. P. S.) *see* **Future of theoretical physics and cosmology**, 2005j:83002

Items listed otherwise than by author

Bibliography:
Hawking, Stephen W. ★ The future of theoretical physics and cosmology. **2005j:83002**
Cambridge ★ The future of theoretical physics and cosmology. **2005j:83002**
Einstein equations and the large scale behavior of gravitational fields ★ The Einstein equations and the large scale behavior of gravitational fields. **2005f:83001**
Festschrift:
Hawking, Stephen W. ★ The future of theoretical physics and cosmology. **2005j:83002**
Future of theoretical physics and cosmology ★ The future of theoretical physics and cosmology. **2005j:83002**
Helsinki ★ Proceedings of the Gunnar Nordström Symposium on Theoretical Physics. **2005f:83002**
Ouro Preto ★ Renormalization group and anomalies in gravity and cosmology.
Proceedings:
Symposium on Theoretical Physics, Gunnar Nordström ★ Proceedings of the Gunnar Nordström Symposium on Theoretical Physics. **2005f:83002**
Renormalization group and anomalies in gravity and cosmology ★ Renormalization group and anomalies in gravity and cosmology.

Items with secondary classifications in 83–06

(Antoniadis, Ignatios) *see* **Strings 04. Part I**, **2005j:81002** *and* **Strings 04. Part II**, **2005j:81003**
(Beem, John K.) *see* **Advances in differential geometry and general relativity**, **2005d:53002**
Bertolini, Matteo (*with* Demasure, Yves; Di Vecchia, Paolo; Kristjansen, Charlotte; Merlatti, Paolo; Obers, Niels A.) Editorial: Papers from the RTN Workshop on the Quantum Structure of Spacetime and the Geometric Nature of Fundamental Interactions.
Demasure, Yves *see* **Bertolini, Matteo et al.**
Di Vecchia, Paolo *see* **Bertolini, Matteo et al.**
(Dostoglou, Stamatis) *see* **Advances in differential geometry and general relativity**, **2005d:53002**
(Douglas, Michael R.) *see* **Strings and geometry**, **2005g:81004**
(Ehrlich, Paul Ewing) *see* **Advances in differential geometry and general relativity**, **2005d:53002**
(Gauntlett, Jerome P.) *see* **Strings and geometry**, **2005g:81004**
(Gross, Mark) *see* **Strings and geometry**, **2005g:81004**
Kristjansen, Charlotte *see* **Bertolini, Matteo et al.**
Merlatti, Paolo *see* **Bertolini, Matteo et al.**
Obers, Niels A. *see* **Bertolini, Matteo et al.**
Russo, Jorge G. Preface: Lectures from the European RTN Winter School on Strings, Supergravity and Gauge Fields, Barcelona, 12–16 January 2004.

Items listed otherwise than by author

Advances in differential geometry and general relativity ★ Advances in differential geometry and general relativity. **2005d:53002**
Cambridge ★ Strings and geometry. **2005g:81004**
Columbia, MO ★ Advances in differential geometry and general relativity. **2005d:53002**
Contemporary Mathematics ★ Advances in differential geometry and general relativity. **2005d:53002**
Paris ★ Strings 04. Part I. **2005j:81002**
— ★ Strings 04. Part II. **2005j:81003**
Strings 04. Part I ★ Strings 04. Part I. **2005j:81002**
Strings 04. Part II ★ Strings 04. Part II. **2005j:81003**
Strings and geometry ★ Strings and geometry. **2005g:81004**

83–08 Computational methods

Calabrese, Gioel A remedy for constraint growth in numerical relativity: the Maxwell case. (English summary) **2005h:83003**
— (*with* Lehner, Luis; Reula, Oscar A.; Sarbach, Olivier; Tiglio, Manuel) Summation by parts and dissipation for domains with excised regions. (English summary) **2005m:83003**
Font, José A. Numerical hydrodynamics in general relativity. (English summary) **2005a:83001**
Fujita, Ryuichi (*with* Tagoshi, Hideyuki) New numerical methods to evaluate homogeneous solutions of the Teukolsky equation. (English summary) **2005j:83003**
Hawke, Ian *see* **Schnetter, Erik et al.**, **2005i:83003**
Hawley, Scott H. *see* **Schnetter, Erik et al.**, **2005i:83003**
Khokhlov, A. M. (*with* Novikov, Igor D.) Scalar hyperbolic equation with GR-type nonlinearity. (English summary) **2005b:83002**
Lau, Stephen R. Rapid evaluation of radiation boundary kernels for time-domain wave propagation on blackholes: theory and numerical methods. (English summary) **2005f:83003**
Lehner, Luis (*with* Reula, Oscar A.) Status quo and open problems in the numerical construction of spacetimes. (English summary) **2005i:83002**
— (*with* Neilsen, David W.; Reula, Oscar A.; Tiglio, Manuel) The discrete energy method in numerical relativity: towards long-term stability. (English summary) **2005h:83004**
— *see also* **Calabrese, Gioel et al.**, **2005m:83003**
Neilsen, David W. *see* **Lehner, Luis et al.**, **2005h:83004**
Novikov, Igor D. *see* **Khokhlov, A. M.**, **2005b:83002**
Reula, Oscar A. *see* **Lehner, Luis et al.**, **2005h:83004**; **2005i:83002** *and* **Calabrese, Gioel et al.**, **2005m:83003**
Sarbach, Olivier *see* **Calabrese, Gioel et al.**, **2005m:83003**
Schnetter, Erik (*with* Hawley, Scott H.; Hawke, Ian) Evolutions in 3D numerical relativity using fixed mesh refinement. (English summary) **2005i:83003**
Tagoshi, Hideyuki *see* **Fujita, Ryuichi**, **2005j:83003**
Thornburg, Jonathan Black-hole excision with multiple grid patches. (English summary) **2005f:83004**
Tiglio, Manuel *see* **Lehner, Luis et al.**, **2005h:83004** *and* **Calabrese, Gioel et al.**, **2005m:83003**

Items with secondary classifications in 83–08

Allen, Elspeth W. (*with* Buckmiller, Elizabeth; Burko, Lior M.; Price, Richard H.) Radiation tails and boundary conditions for black hole evolutions. (English summary) **2005h:83090**
Anderson, Matthew *see* **Caveny, Scott A. et al.**, **2005f:83052**
Brown, J. David (*with* Lowe, Lisa L.) Distorted black hole initial data using the puncture method. (English summary) **2005i:83056**
Buckmiller, Elizabeth *see* **Allen, Elspeth W. et al.**, **2005h:83090**
Burko, Lior M. *see* **Allen, Elspeth W. et al.**, **2005h:83090**
Caveny, Scott A. (*with* Anderson, Matthew; Matzner, Richard A.) Tracking black holes in numerical relativity. (English summary) **2005f:83052**
Frauendiener, Jörg (*with* Klein, Christian) Hyperelliptic theta-functions and spectral methods. (English summary) **2005c:33014**
Frolov, Andrei V. Is it really naked? On cosmic censorship in string theory. (English summary) **2005h:83143**
Garfinkle, David Numerical simulations of generic singularities. (English summary) **2005h:83144**
Klein, Christian *see* **Frauendiener, Jörg**, **2005c:33014**
Kol, Barak *see* **Sorkin, Evgeny et al.**, **2005e:83047**
Lau, Stephen R. Rapid evaluation of radiation boundary kernels for time-domain wave propagation on black holes: implementation and numerical tests. (English summary) **2005k:83085**
Lehner, Luis Numerics of the characteristic formulation in Bondi variables. Where we are and what lies ahead. (English summary) **2005b:83008**
— *see also* **Tiglio, Manuel et al.**, **2005i:83091**
Lin, Chi-Yong *see* **Wang, Bin[2] et al.**, **2005h:83042**
Lowe, Lisa L. *see* **Brown, J. David**, **2005i:83056**
Matzner, Richard A. *see* **Caveny, Scott A. et al.**, **2005f:83052**
Molina Mendes, Carlos *see* **Wang, Bin[2] et al.**, **2005h:83042**
Neilsen, David W. *see* **Tiglio, Manuel et al.**, **2005i:83091**
Piran, Tsvi *see* **Sorkin, Evgeny et al.**, **2005e:83047**
Price, Richard H. *see* **Allen, Elspeth W. et al.**, **2005h:83090**
Seidel, Edward Nonlinear impact of perturbation theory on numerical relativity. (English summary) **2005a:83035**
Sekiguchi, Yu-ichirou *see* **Shibata, Masaru[1]**
Shibata, Masaru[1] (*with* Sekiguchi, Yu-ichirou) Gravitational waves from axisymmetric rotating stellar core collapse to a neutron star in full general relativity. (English summary)
Sorkin, Evgeny (*with* Kol, Barak; Piran, Tsvi) Caged black holes: black holes in compactified spacetimes. II. 5D numerical implementation. (English summary) **2005e:83047**
Tiglio, Manuel (*with* Lehner, Luis; Neilsen, David W.) 3D simulations of Einstein's equations: symmetric hyperbolicity, live gauges, and dynamic control of the constraints. (English summary) **2005i:83091**
Wang, Bin[2] (*with* Lin, Chi-Yong; Molina Mendes, Carlos) Quasinormal behavior of massless scalar field perturbation in Reissner-Nordström anti-de Sitter spacetimes. (English summary) **2005h:83042**

83A05 Special relativity

Ahsan, M. H. *see* **Shah Alam, Md.**
Aloisio, Roberto (*with* Galante, Angelo; Grillo, Aurelio Federico; Luzio, E.; Méndez, Fernando) Approaching space-time through velocity in doubly special relativity (English summary) **2005i:83004**
— (*with* Galante, Angelo; Grillo, Aurelio Federico; Luzio, E.; Méndez, Fernando) A note on DSR-like approach to space-time. (English summary) **2005h:83005**
Arntzenius, Frank Time reversal operations, representations of the Lorentz group, and the direction of time. (English summary) **2005b:83003**
Arroyo, Josu (*with* Barros, Manuel; Garay, Oscar J.) Models of relativistic particle with curvature and torsion revisited. (English summary) **2005g:83004**
Barros, Manuel *see* **Arroyo, Josu et al.**, **2005g:83004**
Başkal, Sibel (*with* Georgieva, Elena; Kim, Young Suh; Noz, Marilyn E.) Lorentz group in classical ray optics. (English summary) **2005c:83001**
Baylis, William E. (*with* Sobczyk, Garret) Relativity in Clifford's geometric algebras of space and spacetime. (English summary) **2005k:83004**
Beisbart, Claus (*with* Jung, Tobias) The messy mass? On the concept of mass in special relativity. (English and German summaries) **2005g:83005**
Benci, Vieri Some remarks on the theory of relativity and the naïve realism. **2005f:83005**
Blaut, A. (*with* Daszkiewicz, M.; Kowalski-Glikman, Jerzy; Nowak, Sebastian[2]) Phase spaces of doubly special relativity. (English summary) **2005a:83002**
Brown, Stephen Leslie Comment on: "The transitive law and special relativity" [Phys. Essays **14** (2001), no. 4, 273; MR1968256] by R. J. Hannon. (English and French summaries)
Cardone, Fabio (*with* Mignani, Roberto) ★ Energy and geometry. **2005g:83006**
— (*with* Marrani, Alessio; Mignani, Roberto) Killing symmetries of generalized Minkowski spaces. II. Finite structure of space-time rotation groups in four dimensions. (English summary) **2005m:83004**
— (*with* Marrani, Alessio; Mignani, Roberto) Killing symmetries of generalized Minkowski spaces. III. Spacetime translations in four dimensions. (English summary) **2005m:83005**

Castro, Carlos[1] On dual phase-space relativity, the Machian principle and modified Newtonian dynamics. (English summary) **2005m:83006**
Chicone, Carmen (*with* Mashhoon, Bahram) Significance of $c/\sqrt{2}$ in relativistic physics. (English summary) **2005h:83006**
Chowdhury, Anjan Kumar *see* **Ghosal, Swapan Kumar et al.**
(Cohen-Tannoudji, Claude) *see* **Simon, Yvan, 2005f:83006**
Daszkiewicz, M. *see* **Błaut, A. et al., 2005a:83002**
Deriglazov, A. A. Doubly special relativity in position space starting from the conformal group. (English summary) **2005g:83007**
Galante, Angelo *see* **Aloisio, Roberto et al., 2005h:83005** *and* **2005i:83004**
Garay, Oscar J. *see* **Arroyo, Josu et al., 2005g:83004**
Georgieva, Elena *see* **Başkal, Sibel et al., 2005c:83001**
Ghosal, Swapan Kumar (*with* Raychaudhuri, Biplab; Chowdhury, Anjan Kumar; Sarker, Minakshi) On the anisotropy of the speed of light on a rotating platform. (English summary)
Good, I. J. The self-consistency of the kinematics of special relativity. V(A). (English and French summaries)
— The self-consistency of the kinematics of special relativity. V(B). (English summary)
Grillo, Aurelio Federico *see* **Aloisio, Roberto et al., 2005h:83005** *and* **2005i:83004**
Gruber, Christian *see* **van Lintel, Harald, 2005h:83010**
Guo, Han-Ying (*with* Huang, Chao-Guang; Xu, Zhan; Zhou, Bin[4]) On special relativity with cosmological constant. (English summary) **2005g:83008**
(Hannon, Robert J.) *see* **Brown, Stephen Leslie**
Hatch, Ronald R. Clocks and the equivalence principle. (English summary)
Heyman, Daniel (*with* Major, Seth; Hinterleitner, Franz) Reaction thresholds in doubly special relativity. (English summary) **2005e:83002**
Hinterleitner, Franz Canonical doubly special relativity theory. (English summary) **2005j:83004**
— *see also* **Heyman, Daniel et al., 2005e:83002**
Horwitz, L. P. (*with* Katz, Nir A.; Oron, O.) Could the classical relativistic electron be a strange attractor? (English summary) (*see* **2005d:00011**)
Huang, Chao-Guang *see* **Guo, Han-Ying et al., 2005g:83008**
Huang, Guoyou Experiments and observations on variable speed of light in Santilli isorelativity. (English summary)
Iorio, Lorenzo On the clock paradox in the case of circular motion of the moving clock. (English summary) **2005m:83007**
Jaramillo, D. E. (*with* Vanegas, N.) The Lorentz group, a Galilean approach. (English and Spanish summaries) **2005c:83002**
Jo, Sang Gyu *see* **Kim, Dongho, 2005e:83003**
Jung, Tobias *see* **Beisbart, Claus, 2005g:83005**
Kapuścik, Edward (*with* Wcisło, Dariusz) Invariant velocities for two-dimensional Minkowski space-time. (English summary)
Kasparian, Azniv (*with* Ungar, Abraham A.) Lie gyrovector spaces. (English summary) **2005h:83007**
Katz, Nir A. *see* **Horwitz, L. P. et al., (2005d:00011)**
Kim, Dongho (*with* Jo, Sang Gyu) Rigidity in special relativity. (English summary) **2005e:83003**
Kim, Young Suh *see* **Başkal, Sibel et al., 2005c:83001**
Kimberly, Dagny (*with* Magueijo, João; Medeiros, João) Nonlinear relativity in position space. (English summary) **2005h:83008**
Kowalski-Glikman, Jerzy (*with* Smolin, Lee) Triply special relativity. (English summary) **2005i:83005**
— *see also* **Błaut, A. et al., 2005a:83002**
Leiva, Carlos Conformal generators and doubly special relativity theories. (English summary) **2005k:83005**
Levichev, A. V. Certain chronometric bundles over compact worlds: triviality of scalar and spinor bundles. (English summary) **2005e:83004**
Levy, Joseph[2] Experimental and real coordinates in space-time transformations. (English summary)
Li, Wu Ming Hyperbolic complexes and properties of Minkowski plane. (Chinese. English and Chinese summaries)
— (*with* Yang, Fan[1]) N-dimensional Minkowski space and space-time algebra. (English summary) **2005h:83009**
van Lintel, Harald (*with* Gruber, Christian) The rod and hole paradox re-examined. (English summary) **2005h:83010**
Luzio, E. *see* **Aloisio, Roberto et al., 2005h:83005** *and* **2005i:83004**
Magueijo, João *see* **Kimberly, Dagny et al., 2005h:83008**
Major, Seth *see* **Heyman, Daniel et al., 2005e:83002**
Marrani, Alessio *see* **Cardone, Fabio et al., 2005m:83004** *and* **2005m:83005**
Martínez, Alberto A. Kinematic subtleties in Einstein's first derivation of the Lorentz transformations. (English summary) **2005a:83003**
— Conventions and inertial reference frames. (English summary) **2005m:83008**
Mashhoon, Bahram Nonlocality of accelerated systems. (English summary) **2005k:83006**
— *see also* **Chicone, Carmen, 2005h:83006**
Medeiros, João *see* **Kimberly, Dagny et al., 2005h:83008**
Méndez, Fernando *see* **Aloisio, Roberto et al., 2005h:83005** *and* **2005i:83004**
Menskiĭ, M. B. Gravitational effects in terms of paths in Minkowski space. (English and Russian summaries) **2005m:83009**
Mermin, N. David From Einstein's 1905 postulates to the geometry of flat space-time. (English summary) **2005k:83007**
Mignani, Roberto *see* **Cardone, Fabio et al., 2005g:83006; 2005m:83004** *and* **2005m:83005**
Mignemi, Salvatore Transformations of coordinates and Hamiltonian formalism in deformed special relativity. **2005a:83004**
— Noncanonical Poisson brackets in deformed special relativity. (English summary) **2005d:83003**
Nimtz, Günter Superluminal signal velocity and causality. (English summary)
Nowak, Sebastian[2] *see* **Błaut, A. et al., 2005a:83002**
Noz, Marilyn E. *see* **Başkal, Sibel et al., 2005c:83001**
Oron, O. *see* **Horwitz, L. P. et al., (2005d:00011)**
Pierseaux, Yves The "fine structure" of special relativity and the Thomas precession. (English and French summaries) **2005g:83009**
Pin, Massimo *see* **Sonego, Sebastiano, 2005m:83010**
Raychaudhuri, Biplab *see* **Ghosal, Swapan Kumar et al.**
Sarker, Minakshi *see* **Ghosal, Swapan Kumar et al.**
Selleri, Franco Superluminal signals and causality. (English summary) **2005b:83004**
Shah Alam, Md. (*with* Ahsan, M. H.) Mixed-number Lorentz transformation. (English and French summaries)
Sharpnack, N. Xavier Time-line relativity: an alternative geometry for special and general relativity. (English and French summaries)
Simon, Yvan ★ Relativité restreinte. (French) [Special relativity] **2005f:83006**
Smolin, Lee *see* **Kowalski-Glikman, Jerzy, 2005i:83005**
Sobczyk, Garret *see* **Baylis, William E., 2005k:83004**
Sonego, Sebastiano (*with* Pin, Massimo) Deriving relativistic momentum and energy. (English summary) **2005m:83010**
Szabó, László E. On the meaning of Lorentz covariance. (English summary)
Thornhill, C. K. The foundations of relativity. (English summary)
Ungar, Abraham A. Einstein's special relativity: unleashing the power of its hyperbolic geometry. (English summary) **2005j:83005**
— *see also* **Kasparian, Azniv, 2005h:83007**
Vanegas, N. *see* **Jaramillo, D. E., 2005c:83002**
Wcisło, Dariusz *see* **Kapuścik, Edward**
Xu, Zhan *see* **Guo, Han-Ying et al., 2005g:83008**
Yamaleev, Robert M. Extended relativistic dynamics of charged spinning particle in quaternionic formulation. (English summary) **2005h:83011**
— Extended relativistic dynamics with n-degree characteristic polynomial. (English summary)
Yang, Fan[1] *see* **Li, Wu Ming, 2005h:83009**
Yarman, Tolga The general equation of motion via the special theory of relativity and quantum mechanics. (English summary)
Zhou, Bin[4] *see* **Guo, Han-Ying et al., 2005g:83008**

Items with secondary classifications in 83A05

Agostini, Alessandra (*with* Amelino-Camelia, Giovanni; Arzano, Michele) Dirac spinors for doubly special relativity and κ-Minkowski noncommutative spacetime. (English summary) **2005c:83047**
Alamo, N. *see* **Criado, C., (2005h:00016)**
Alba, David (*with* Lusanna, Luca) Generalized Eulerian coordinates for relativistic fluids: Hamiltonian rest-frame instant form, relative variables, rotational kinematics. (English summary) **2005g:76135**
Amelino-Camelia, Giovanni *see* **Agostini, Alessandra et al., 2005c:83047**
Arzano, Michele *see* **Agostini, Alessandra et al., 2005c:83047**
Bacry, Henri The foundations of the Poincaré group and the validity of general relativity. (English summary) **2005e:81080**
Baez, John C. Errata for: "The octonions" [Bull. Amer. Math. Soc. (N.S.) **39** (2002), no. 2, 145–205; MR1886087 (2003f:17003)].
Barrera, L. A. *see* **López Laurrabaquio, G. et al., 2005h:70018**
Brustein, Ram (*with* Yarom, Amos) Thermodynamics and area in Minkowski space: heat capacity of entanglement. (English summary) **2005i:81109**
Buonaura, B. Maxwell equations and inertial transformations. (English summary) **2005i:78002**
Chen, Li Qun *see* **Fu, Jing-Li, 2005b:70023**
Cortés, José Luis (*with* Gamboa, Jorge) Quantum uncertainty in doubly special relativity. (English summary) **2005k:81365**
Criado, C. (*with* Alamo, N.) Hyperbolic honeycombs and relativistic velocities space. (English summary) (*see* **2005h:00016**)
Czachor, Marek Comment on: "Quantum entropy and special relativity" [Phys. Rev. Lett. **88** (2002), no. 23, 230402, 3 pp.; MR1920421 (2003j:81020)] by A. Peres, P. F. Scudo and D. R. Terno.
— *see also* **Peres, Asher et al.**
De Luca, Jayme *see* **Hollander, Efrain Buksman, 2005h:78008**
Droz-Vincent, Ph. Reduction of relativistic three-body kinematics. (English summary) **2005c:81046**
Evans, Myron W. Derivation of the Lorentz boost from the Evans wave equation. (English summary) **2005f:81099**
Fang, Jian Hui Mei symmetry and Noether symmetry of the relativistic variable mass system. (English summary) **2005a:70022**
Friedman, Yaakov ★ Physical applications of homogeneous balls. **2005m:32044**
Fu, Jing-Li (*with* Chen, Li Qun) Perturbation of symmetries of rotational relativistic Birkhoffian systems and its inverse problem. (English summary) **2005b:70023**
Gamboa, Jorge *see* **Cortés, José Luis, 2005k:81365**
Garibo, Y. *see* **López Laurrabaquio, G. et al., 2005h:70018**
Gràcia, Xavier (*with* Martín, Rubén) Nonholonomic systems and the relativistic particle. (English summary) **2005j:70030**
Hernández, H. *see* **López Laurrabaquio, G. et al., 2005h:70018**
Hollander, Efrain Buksman (*with* De Luca, Jayme) Regularization of the collision in the electromagnetic two-body problem. (English summary) **2005h:78008**
King, Daniel[2] Two-dimensional time: MacBeath's "Time's square" and special relativity. (English summary) **2005a:00004**
Landsberg, P. T. (*with* Matsas, George E. A.) The impossibility of a universal relativistic temperature transformation. (English summary) **2005c:82049**
Lange, Marc ★ An introduction to the philosophy of physics. **2005d:81020**
Li, Wu Ming (*with* Yang, Fan[1]) N-dimensional space-time unit spheres and Lorentz transformation. (English summary) **2005e:15027**
Liang, Hao *see* **Yu, Xue Qian**
López Laurrabaquio, G. (*with* Barrera, L. A.; Garibo, Y.; Hernández, H.; Salazar, J. C.; Vargas, C. A.) Constants of motion for several one-dimensional systems and problems associated with getting their Hamiltonians. (English summary) **2005h:70018**
Lusanna, Luca *see* **Alba, David, 2005g:76135**
Martín, Rubén *see* **Gràcia, Xavier, 2005j:70030**

Matsas, George E. A. *see* **Landsberg, P. T., 2005c:82049**
Matsyuk, R. Ya. Differential geometric mechanisms in Ostrohradskyj relativistic spherical top dynamics. (English, Russian and Ukrainian summaries) **2005g:70035**
Miller, Kristie The metaphysical equivalence of three and four dimensionalism. (English summary) **2005k:00010**
Newman, Ezra Ted Maxwell fields and shear-free null geodesic congruences. (English summary) **2005e:83034**
Peres, Asher (*with* Scudo, Petra F.; Terno, Daniel R.) Peres, Scudo, and Terno reply: "Comment on: 'Quantum entropy and special relativity'" [Phys. Rev. Lett. **94** (2005), no. 7, 078901, 1 pp.; MR2135110] by M. Czachor.
— *see also* **Czachor, Marek**
Reignier, Jean De l'éther de Fresnel à la relativité restreinte. (English and French summaries) [From Fresnel's ether to special relativity] **2005g:83003**
Rivadulla, Andrés The Newtonian limit of relativity theory and the rationality of theory change. (English summary) **2005h:83002**
Salazar, J. C. *see* **López Laurrabaquio, G. et al., 2005h:70018**
(Scarr, Tzvi) *see* **Friedman, Yaakov, 2005m:32044**
Schwarz, John H. *see* **Schwarz, Patricia M., 2005b:83001**
Schwarz, Patricia M. (*with* Schwarz, John H.) ★ Special relativity. **2005b:83001**
Scudo, Petra F. *see* **Czachor, Marek** *and* **Peres, Asher et al.**
Terno, Daniel R. *see* **Czachor, Marek** *and* **Peres, Asher et al.**
Ungar, Abraham A. The hyperbolic triangle centroid. (English summary) **2005b:20135**
Vargas, C. A. *see* **López Laurrabaquio, G. et al., 2005h:70018**
Yang, Fan[1] *see* **Li, Wu Ming, 2005e:15027**
Yarom, Amos *see* **Brustein, Ram, 2005i:81109**
Yu, Xue Qian (*with* Liang, Hao) A class of hyperbolic normed algebras. (Chinese. English and Chinese summaries)

83B05 Observational and experimental questions

Angonin, M.-C. *see* **Tourrenc, Ph. et al.**
Bennett, Charles L. Astrophysical observations: lensing and eclipsing Einstein's theories. (English summary) **2005h:83012**
Bertolami, O. (*with* Páramos, J.) The Pioneer anomaly in the context of the braneworld scenario. (English summary) **2005a:83005**
Bombelli, Luca (*with* Winkler, Oliver) Comparison of QG-induced dispersion with standard physics effects. (English summary)
Carlip, S. Model-dependence of Shapiro time delay and the 'speed of gravity/speed of light' controversy. (English summary) **2005j:83006**
Chiao, Raymond Y. Conceptual tensions between quantum mechanics and general relativity: are there experimental consequences?
Ciufolini, Ignazio Frame dragging and Lense-Thirring effect. (English summary) **2005f:83007**
Jaekel, Marc-Thierry (*with* Reynaud, Serge) Post-Einsteinian tests of linearized gravitation. (English summary) **2005m:83011**
Kopeikin, Sergei M. The speed of gravity in general relativity and theoretical interpretation of the Jovian deflection experiment. (English summary) **2005i:83006**
Lin, Shih-Yuin Unruh-DeWitt-type monopole detector in $(3+1)$-dimensional space-time. (English summary) **2005a:83006**
Ovido, X. *see* **Tourrenc, Ph. et al.**
Páramos, J. *see* **Bertolami, O., 2005a:83005**
Reynaud, Serge *see* **Jaekel, Marc-Thierry, 2005m:83011**
Samuel, Joseph Measuring the general relativistic curvature of wavefronts. (English summary) **2005a:83007**
Tourrenc, Ph. (*with* Angonin, M.-C.; Ovido, X.) Tidal gravitational effects in a satellite. (English summary)
Van Den Broeck, Chris The gravitational wave spectrum of non-axisymmetric, freely precessing neutron stars. (English summary) **2005k:83008**
Vinet, Jean-Yves Mirror thermal noise in flat-beam cavities for advanced gravitational wave interferometers. (English summary)
Winkler, Oliver *see* **Bombelli, Luca**

Items with secondary classifications in 83B05

Aurich, Ralf (*with* Lustig, Sven; Steiner, Frank; Then, Holger) Hyperbolic universes with a horned topology and the cosmic microwave background anisotropy. (English summary) **2005i:83133**
Basini, Giuseppe (*with* Bongiorno, Fulvio; Capozziello, Salvatore) Singularity free solutions from scalar-tensor gravity compared with recent cosmological observations. (English summary) **2005h:83163**
Bongiorno, Fulvio *see* **Basini, Giuseppe et al., 2005h:83163**
Capozziello, Salvatore *see* **Basini, Giuseppe et al., 2005h:83163**
Damour, Thibault (*with* Gopakumar, Achamveedu; Iyer, Balasubramanian Ramakrishna) Phasing of gravitational waves from inspiralling eccentric binaries. (English summary) **2005h:83050**
Flanagan, Éanna É. The conformal frame freedom in theories of gravitation. Reply to comment: "On the viability of the Palatini form of $1/R$ gravity" [Classical Quantum Gravity **21** (2004), no. 15, 3813–3816; MR2079946 (2005e:83072b)] by D. N. Vollick. (English summary) **2005e:83072c**
— Palatini form of $1/R$ gravity. (English summary) **2005e:83072a**
— Erratum: "Palatini form of $1/R$ gravity" [Phys. Rev. Lett. **92** (2004), no. 7, 071101, 4 pp.; MR2069630 (2005e:83072a)]. **2005j:83081**
— *see also* **Vollick, Dan N., 2005e:83072b**
Garel, T. A Newtonian pre-introduction to gravitational lenses. (English summary)
Giddings, Steven B. Black holes at accelerators. (*see* **2005j:83002**)
Gopakumar, Achamveedu *see* **Damour, Thibault et al., 2005h:83050**
Iyer, Balasubramanian Ramakrishna *see* **Damour, Thibault et al., 2005h:83050**
Khoury, Justin (*with* Weltman, Amanda) Chameleon cosmology. (English summary) **2005e:83117**
Logunov, Anatolii Postnewtonian approximation of the relativistic theory of gravity. **2005m:83035**
Lustig, Sven *see* **Aurich, Ralf et al., 2005i:83133**
Mashhoon, Bahram (*with* Wesson, Paul S.) Gauge-dependent cosmological 'constant'. (English summary) **2005c:83092**
McCabe, Gordon The structure and interpretation of cosmology. I. General relativistic cosmology. (English summary) **2005k:83203**
Rizzi, Guido (*with* Ruggiero, Matteo Luca) A direct kinematical derivation of the relativistic Sagnac effect for light or matter beams. (English summary) **2005b:83014**
Ruggiero, Matteo Luca *see* **Rizzi, Guido, 2005b:83014**
Shellard, E. P. S. The future of cosmology: observational and computational prospects. (*see* **2005j:83002**)
Steiner, Frank *see* **Aurich, Ralf et al., 2005i:83133**
Then, Holger *see* **Aurich, Ralf et al., 2005i:83133**
Vollick, Dan N. On the viability of the Palatini form of $1/R$ gravity. Comment on: "Palatini form of $1/R$ gravity" [Phys. Rev. Lett. **92** (2004), no. 7, 071101, 4 pp.; MR2069630 (2005e:83072a)] by É. É. Flanagan. (English summary) **2005e:83072b**
— *see also* **Flanagan, Éanna É., 2005e:83072c**
Weltman, Amanda *see* **Khoury, Justin, 2005e:83117**
Wesson, Paul S. *see* **Mashhoon, Bahram, 2005c:83092**

83Cxx General relativity

Items with secondary classifications in 83Cxx

Straumann, Norbert ★ General relativity. **2005m:83002**

83C05 Einstein's equations (general structure, canonical formalism, Cauchy problems)

Anderson, Edward Variations on the seventh route to relativity. (English summary) **2005e:83005**
Andersson, Lars Åke Bel-Robinson energy and constant mean curvature foliations. (English summary) **2005g:83010**
Barnes, A. P. (*with* LeFloch, Philippe G.; Schmidt, B. G.; Stewart, J. M.) The Glimm scheme for perfect fluids on plane-symmetric Gowdy spacetimes. (English summary) **2005m:83012**
Bartnik, Robert A. (*with* Isenberg, James) The constraint equations. (English summary) **2005j:83007**
Beig, Robert (*with* Chruściel, Piotr T.; Schoen, Richard) KIDs are non-generic. (English summary) **2005m:83013**
Borghero, Francesco (*with* Pennisi, Sebastiano) Einstein's field equations in the light of constrained hyperbolic systems. (English summary) **2005a:83008**
Bray, Hubert L. (*with* Chruściel, Piotr T.) The Penrose inequality. (English summary) **2005m:83014**
Calabrese, Gioel (*with* Pullin, Jorge; Reula, Oscar A.; Sarbach, Olivier; Tiglio, Manuel) Well posed constraint-preserving boundary conditions for the linearized Einstein equations. (English summary) **2005i:83007**
Capovilla, R. (*with* Guven, Jemal; Rojas, Efraín) Hamiltonian dynamics of extended objects. (English summary) **2005h:83013**
Choquet-Bruhat, Yvonne Einstein constraints on compact n-dimensional manifolds. (English summary) **2005g:83011**
Chruściel, Piotr T. (*with* Delay, Erwann) On mapping properties of the general relativistic constraints operator in weighted function spaces, with applications. (English and French summaries) **2005f:83008**
— (*with* Delay, Erwann) Manifold structures for sets of solutions of the general relativistic constraint equations. (English summary) **2005i:83008**
— *see also* **Beig, Robert et al., 2005m:83013** *and* **Bray, Hubert L., 2005m:83014**
Czuchry, Ewa *see* **Jezierski, Jacek et al., 2005m:83018**
Dafermos, Mihalis Stability and instability of the Cauchy horizon for the spherically symmetric Einstein-Maxwell-scalar field equations. (English summary) **2005f:83009**
Dain, Sergio A new geometric invariant on initial data for the Einstein equations. (English summary) **2005m:83015**
Delay, Erwann *see* **Chruściel, Piotr T., 2005f:83008** *and* **2005i:83008**
Estabrook, Frank B. Mathematical structure of tetrad equations for vacuum relativity. (English summary) **2005m:83016**
Friedrich, Helmut Conformal Einstein evolution. (English summary) **2005e:83005**
— Smoothness at null infinity and the structure of initial data. (English summary) **2005h:83014**
Frittelli, Simonetta (*with* Gómez, Roberto) Einstein boundary conditions for the Einstein equations in the conformal-traceless decomposition. (English summary) **2005m:83017**
— *see also* **Gómez, Roberto, 2005a:83009**
Gómez, Roberto (*with* Frittelli, Simonetta) First-order quasilinear canonical representation of the characteristic formulation of the Einstein equations. (English summary) **2005a:83009**
— *see also* **Frittelli, Simonetta, 2005m:83017**
Gundlach, Carsten (*with* Martín-García, José M.) Symmetric hyperbolic form of systems of second-order evolution equations subject to constraints. (English summary) **2005k:83009**
— (*with* Martín-García, José M.) Symmetric hyperbolicity and consistent boundary conditions for second-order Einstein equations. (English summary) **2005k:83010**
Guven, Jemal *see* **Capovilla, R. et al., 2005h:83013**
He, Han (*with* Ma, Yongge; Yang, Xue Jun[1]) Actions for vacuum Einstein's equation with a Killing symmetry. (English summary) **2005b:83006**
Holst, M. J. (*with* Lindblom, Lee; Owen, Robert; Pfeiffer, Harald P.; Scheel, Mark A.; Kidder, Lawrence E.) Optimal constraint projection for hyperbolic evolution systems. (English summary) **2005j:83008**
Imponente, Giovanni (*with* Montani, Giovanni) Bianchi IX chaoticity: BKL map and continuous flow. (English summary) **2005b:83007**
Isenberg, James (*with* Ó Murchadha, Niall) Non-CMC conformal data sets which do not produce solutions of the Einstein constraint equations. (English summary) **2005c:83003**

— *see also* **Bartnik, Robert A., 2005j:83007**
Ishak, Mustapha (*with* Lake, Kayll) Inverse approach to Einstein's equations for nonconducting fluids. (English summary) **2005e:83006**
Jackiw, Roman (*with* Pi, So-Young) Chern-Simons modification of general relativity. (English summary) **2005e:83007**
Jezierski, Jacek (*with* Kijowski, Jerzy; Czuchry, Ewa) Boundary data in canonical gravity and thermodynamics of black holes. (English summary) **2005m:83018**
Kelleher, Bryan Scale-invariant gravity: spacetime recovered. (English summary) **2005a:83010**
— Scale-invariance in gravity and implications for the cosmological constant. (English summary) **2005d:83004**
Keller, Jaime General relativity from START. (English summary) **2005h:83015**
Kidder, Lawrence E. *see* **Lindblom, Lee et al., 2005d:83006** *and* **Holst, M. J. et al., 2005j:83008**
Kijowski, Jerzy *see* **Jezierski, Jacek et al., 2005m:83018**
Kirchner, U. A new approach to spherically symmetric junction surfaces and the matching of FLRW regions. (English summary) **2005h:83016**
Korbicz, Jarosław (*with* Tafel, J.) Lagrangian and Hamiltonian for the Bondi-Sachs metrics. (English summary) **2005g:83012**
Kumari, Bharti (*with* Singh, Gajendra Narain) On Minkowski's axiomatic space-time structure. (English summary)
Lake, Kayll *see* **Ishak, Mustapha, 2005e:83006**
LeFloch, Philippe G. *see* **Barnes, A. P. et al., 2005m:83012**
Lehner, Luis Numerics of the characteristic formulation in Bondi variables. Where we are and what lies ahead. (English summary) **2005b:83008**
Lindblom, Lee (*with* Scheel, Mark A.) Dynamical gauge conditions for the Einstein evolution equations. (English summary) **2005d:83005**
— (*with* Kidder, Lawrence E.; Pfeiffer, Harald P.; Shoemaker, Deirdre; Teukolsky, Saul A.) Controlling the growth of constraints in hyperbolic evolution systems. (English summary) **2005d:83006**
— *see also* **Holst, M. J. et al., 2005j:83008**
Ma, Yongge *see* **He, Han et al., 2005b:83006**
Maerten, Daniel Killing initial data revisited. (English summary) **2005b:83009**
Manko, V. S. (*with* Ruiz, Eduardo) How can exact and approximate solutions of Einstein's field equations be compared? (English summary) **2005m:83019**
Martín-García, José M. *see* **Gundlach, Carsten, 2005k:83009** *and* **2005k:83010**
Meng, Xin-He (*with* Wang, Peng^2) Gravitational potential in the Palatini formulation of modified gravity. (English summary) **2005e:83008**
Montani, Giovanni *see* **Imponente, Giovanni, 2005b:83007**
Ó Murchadha, Niall *see* **Isenberg, James, 2005c:83003**
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Pi, So-Young *see* **Jackiw, Roman, 2005e:83007**
Pinto-Neto, N. (*with* Trajtenberg, P. I.) The Hamiltonian of asymptotically Friedmann-Lemaître-Robertson-Walker spacetimes. (English summary) **2005e:83009**
Pullin, Jorge *see* **Calabrese, Gioel et al., 2005i:83007**
Rein, Gerhard On future geodesic completeness for the Einstein-Vlasov system with hyperbolic symmetry. (English summary) **2005e:83010**
Rendall, Alan D. Asymptotics of solutions of the Einstein equations with positive cosmological constant. (English summary) **2005h:83017**
Reula, Oscar A. *see* **Calabrese, Gioel et al., 2005i:83007**
Ringström, Hans Asymptotic expansions close to the singularity in Gowdy spacetimes. (English summary) **2005e:83011**
— On Gowdy vacuum spacetimes. (English summary) **2005h:83018**
Rojas, Efraín *see* **Capovilla, R. et al., 2005h:83013**
Ruiz, Eduardo *see* **Manko, V. S., 2005m:83019**
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Schoen, Richard *see* **Beig, Robert et al., 2005m:83013**
Shchigolev, V. K. (*with* Samaroo, K.) Generalized exact cosmologies with interacting Yang-Mills and nonlinear scalar fields. (English summary) **2005d:83007**
Shoemaker, Deirdre *see* **Lindblom, Lee et al., 2005d:83006**
Singh, Gajendra Narain *see* **Kumari, Bharti**
Stewart, J. M. *see* **Barnes, A. P. et al., 2005m:83012**
Tafel, J. *see* **Korbicz, Jarosław, 2005g:83012**
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Tiglio, Manuel *see* **Calabrese, Gioel et al., 2005i:83007**
Trajtenberg, P. I. *see* **Pinto-Neto, N., 2005e:83009**
Vollick, Dan N. Palatini approach to Born-Infeld-Einstein theory and a geometric description of electrodynamics. (English summary) **2005g:83013**
Wang, Peng^2 *see* **Meng, Xin-He, 2005e:83008**
Yang, Xue Jun^1 *see* **He, Han et al., 2005b:83006**
Yoon, Jong Hyuk New Hamiltonian formalism and quasilocal conservation equations of general relativity. (English summary) **2005k:83011**

Items with secondary classifications in 83C05

Anderson, Michael T. Cheeger-Gromov theory and applications to general relativity. (English summary) **2005f:53055**
Andersson, Lars Åke The global existence problem in general relativity. (English summary) **2005k:58054**
Baskaran, D. (*with* Lau, Stephen R.; Petrov, Aleksandr Nikolaevich) Center of mass integral in canonical general relativity. (English summary) **2005b:83037**
Brihaye, Yves (*with* Hartmann, Betti; Ioannidou, Theodora; Zakrzewski, Wojciech J.) Harmonic map analysis of SU(N) gravitating skyrmions. (English summary) **2005e:58019**
Calabrese, Gioel A remedy for constraint growth in numerical relativity: the Maxwell case. (English summary) **2005h:83003**
Chae, Myeongju (*with* Chruściel, Piotr T.) On the dynamics of Gowdy space-times. (English summary) **2005i:83085**
Chruściel, Piotr T. (*with* Herzlich, Marc) The mass of asymptotically hyperbolic Riemannian manifolds. (English summary) **2005d:53052**
— (*with* Jezierski, Jacek; Łęski, Szymon) The Trautman-Bondi mass of hyperboloidal initial data sets. (English summary) **2005j:83027**
— *see also* **Einstein equations and the large scale behavior of gravitational fields, 2005f:83001** *and* **Chae, Myeongju, 2005i:83085**
Dafermos, Mihalis Stability and instability of the Reissner-Nordström Cauchy horizon and the problem of uniqueness in general relativity. (English summary) **2005k:83103**
(Dain, Sergio) *see* **Errata: "Trapped surfaces as boundaries for the constraint equations", 2005j:83076**
Das, Anadijiban (*with* DeBenedictis, A.; Tariq, N.) General solutions of Einstein's spherically symmetric gravitational equations with junction conditions. (English summary) **2005a:83020**
D'Eath, P. D. What local supersymmetry can do for quantum cosmology. (*see* **2005j:83002**)
DeBenedictis, A. *see* **Das, Anadijiban et al., 2005a:83020**
Francaviglia, Mauro (*with* Raiteri, M.) Boundary conditions, energies and gravitational heat in general relativity (a classical analysis). (English summary) **2005f:83034**
Frauendiener, Jörg Conformal infinity. (English summary) **2005e:83026**
(Friedrich, Helmut) *see* **Einstein equations and the large scale behavior of gravitational fields, 2005f:83001**
Galloway, Gregory J. Cosmological spacetimes with $\Lambda > 0$. **2005m:53132**
Geroch, Robert Gauge, diffeomorphisms, initial-value formulation, etc. (English summary) **2005k:58055**
Goswami, Rituparno *see* **Mahajan, Ashutosh et al., 2005i:83071**
Groah, Jeff (*with* Temple, Blake) Shock-wave solutions of the Einstein equations with perfect fluid sources: existence and consistency by a locally inertial Glimm scheme. (English summary) **2005g:35205**
Haggag, S. On perfect-fluid sources for the Curzon metric. (English summary) **2005d:83016**
Hamazaki, Takahashi Evolution of cosmological perturbations in the universe dominated by resonant scalar fields. (English summary) **2005i:83139a**
— *see also* **Errata: "Evolution of cosmological perturbations in the universe dominated by resonant scalar fields", 2005i:83139b**
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Henkel, Oliver Local prescribed mean curvature foliations in cosmological spacetimes. (English summary) **2005c:53090**
Herzlich, Marc *see* **Chruściel, Piotr T., 2005d:53052**
Horwood, Joshua T. (*with* Hancock, M. J.; The, Dennis; Wainwright, John) Late-time asymptotic dynamics of Bianchi VIII cosmologies. (English summary) **2005c:83018**
Ioannidou, Theodora *see* **Brihaye, Yves et al., 2005e:58019**
Itin, Yakov Weak field reduction in teleparallel coframe gravity: vacuum case. (English summary) **2005j:83031**
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Joshi, Pankaj S. *see* **Mahajan, Ashutosh et al., 2005i:83071**
Khokhlov, A. M. (*with* Novikov, Igor D.) Scalar hyperbolic equation with GR-type nonlinearity. (English summary) **2005b:83002**
Klainerman, Sergiu (*with* Nicolò, Francesco) Peeling properties of asymptotically flat solutions to the Einstein vacuum equations. (English summary) **2005b:83038a**
— (*with* Nicolò, Francesco) Corrigendum: "Peeling properties of asymptotically flat solutions to the Einstein vacuum equations" [Classical Quantum Gravity **20** (2003), no. 14, 3215–3257; MR1992002 (2005b:83038a)]. **2005b:83038b**
— (*with* Rodnianski, Igor) Ricci defects of microlocalized Einstein metrics. (English summary) **2005f:58048**
Kostelecký, V. Alan (*with* Lehnert, Ralf; Perry, Malcolm J.) Spacetime-varying couplings and Lorentz violation. (English summary) **2005c:83085**
Lau, Stephen R. *see* **Baskaran, D. et al., 2005b:83037**
Lehner, Luis *see* **Tiglio, Manuel et al., 2005i:83091**
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Łęski, Szymon *see* **Chruściel, Piotr T. et al., 2005j:83027**
Mahajan, Ashutosh (*with* Goswami, Rituparno; Joshi, Pankaj S.) Gravitational collapse from smooth initial data with vanishing radial pressure. (English summary) **2005i:83071**
Malec, Edward (*with* Ó Murchadha, Niall) Constant mean curvature slices in the extended Schwarzschild solution and the collapse of the lapse. (English summary) **2005f:83017**
— (*with* Ó Murchadha, Niall) The Jang equation, apparent horizons and the Penrose inequality. (English summary) **2005i:83025**
Narita, Makoto Global existence problem in T^3-Gowdy symmetric IIB superstring cosmology. (English summary) **2005a:83128**
Neilsen, David W. *see* **Tiglio, Manuel et al., 2005i:83091**
Nicolò, Francesco *see* **Klainerman, Sergiu, 2005b:83038a** *and* **2005b:83038b**
Novikov, Igor D. *see* **Khokhlov, A. M., 2005b:83002**
Nowak, Iwona Derivation of the post-post-Newtonian equations of motion for the point particles by the EIH approximations method from the Einstein field equations with the Infeld-Plebański stress-energy tensor. (English summary) **2005d:83028**
Ó Murchadha, Niall *see* **Malec, Edward, 2005f:83017** *and* **2005i:83025**
Perry, Malcolm J. *see* **Kostelecký, V. Alan et al., 2005c:83085**
Petrov, Aleksandr Nikolaevich *see* **Baskaran, D. et al., 2005b:83037**
Raiteri, M. *see* **Francaviglia, Mauro, 2005f:83034**
Reula, Oscar A. Strongly hyperbolic systems in general relativity. (English summary) **2005j:58040**
Ringström, Hans On a wave map equation arising in general relativity. (English summary) **2005h:58049**
Rodnianski, Igor *see* **Klainerman, Sergiu, 2005f:58048**
Shestakova, T. P. (*with* Simeone, Claudio) The problem of time and gauge invariance in the quantization of cosmological models. I. Canonical quantization methods. (English and Russian summaries) **2005g:83050**
Simeone, Claudio *see* **Shestakova, T. P., 2005g:83050**
Stuart, David M. A. The geodesic hypothesis and non-topological solitons on pseudo-

Riemannian manifolds. (English and French summaries) **2005b:58040**
— Geodesics and the Einstein nonlinear wave system. (English and French summaries) **2005b:58041**
Tariq, N. *see* **Das, Anadijiban et al., 2005a:83020**
Tchapnda Njabo, Sophonie Blaise Structure of solutions near the initial singularity for the surface-symmetric Einstein-Vlasov system. (English summary) **2005m:83093**
Temple, Blake *see* **Groah, Jeff, 2005g:35205**
The, Dennis *see* **Horwood, Joshua T. et al., 2005c:83018**
Tiglio, Manuel (*with* Lehner, Luis; Neilsen, David W.) 3D simulations of Einstein's equations: symmetric hyperbolicity, live gauges, and dynamic control of the constraints. (English summary) **2005i:83091**
Wainwright, John *see* **Horwood, Joshua T. et al., 2005c:83018**
Zakrzewski, Wojciech J. *see* **Brihaye, Yves et al., 2005e:58019**
Zecca, A. Self-gravitating scalar field in spherically symmetric comoving system: solutions depending on one variable. (English summary) **2005b:83031**

Items listed otherwise than by author

Einstein equations and the large scale behavior of gravitational fields ★ The Einstein equations and the large scale behavior of gravitational fields. **2005f:83001**
Errata:
"Evolution of cosmological perturbations in the universe dominated by resonant scalar fields" Erratum to: "Evolution of cosmological perturbations in the universe dominated by resonant scalar fields" [Nuclear Phys. B **698** (2004), no. 1-2, 335–385; MR2092817 (2005i:83139a)] by T. Hamazaki. **2005i:83139b**
"Trapped surfaces as boundaries for the constraint equations" Corrigendum: "Trapped surfaces as boundaries for the constraint equations" [Classical Quantum Gravity **21** (2004), no. 2, 555–573; MR2030884 (2004m:83060)] by S. Dain. **2005j:83076**

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Anandan, Jeeva S. (*with* Dadhich, Naresh; Singh, Parampreet) Action principle formulation for the motion of extended bodies in general relativity. (English summary) **2005a:83011**
Armenta, J. (*with* Nieto, J. Antonio) The de Sitter relativistic top theory. (English summary) **2005j:83009**
Balakin, A. B. (*with* Kurbanova, Veronika; Zimdahl, Winfried) Precession of a particle with anomalous magnetic moment in electromagnetic and gravitational pp-wave fields. (English and Russian summaries) **2005i:83009**
— (*with* Kurbanova, Veronika) Anomalous polarization-curvature interaction in a gravitational-wave field. (English and Russian summaries) **2005j:83010**
Barducci, A. (*with* Giachetti, Riccardo) Scalar and spinning particles in an external linearized gravitational wave field. (English summary) **2005i:83010**
Barrabès, Claude (*with* Hogan, P. A.) Recoil and ring-down effects in gravitation. (English summary) **2005k:83012**
Barros, Manuel (*with* Ferrández, Angel; Javaloyes Victoria, Miguel A.; Lucas, Pascual) Relativistic particles with rigidity and torsion in $D = 3$ spacetimes. (English summary) **2005m:83020**
Bini, Donato (*with* de Felice, Fernando; Geralico, Andrea) Spinning test particles and clock effect in Schwarzschild spacetime. (English summary) **2005k:83013**
— (*with* de Felice, Fernando; Geralico, Andrea) Spinning test particles and clock effect in Kerr spacetime. (English summary) **2005k:83014**
— (*with* de Felice, Fernando; Geralico, Andrea; Lunari, Andrea) Spinning test particles in Weyl spacetimes. (English summary) **2005m:83021**
Burko, Lior M. Orbital evolution of a test particle around a black hole. II. Comparison of contributions of spin-orbit coupling and the self-force. (English summary)
Caponio, Erasmo Time-like solutions to the Lorentz force equation in time-dependent electromagnetic and gravitational fields. (English summary) **2005a:83012**
Collas, Peter (*with* Klein, David Michael) A simple criterion for nonrotating reference frames. (English summary) **2005b:83010**
— (*with* Klein, David Michael) Causality violating geodesics in Bonnor's rotating dust metric. (English summary) **2005g:83014**
Dadhich, Naresh *see* **Anandan, Jeeva S. et al., 2005a:83011**
Drukker, Nadav (*with* Fiol, Bartomeu; Simón, Joan) Gödel-type universes and the Landau problem. (English summary) **2005k:83015**
Faruque, S. B. Gravitomagnetic clock effect in the orbit of a spinning particle orbiting the Kerr black hole. (English summary) **2005b:83011**
de Felice, Fernando *see* **Bini, Donato et al., 2005k:83013**; **2005k:83014** *and* **2005m:83021**
Ferrández, Angel (*with* Javaloyes Victoria, Miguel A.; Lucas, Pascual) Geometry of relativistic particles with torsion in 4-dimensional spaces. (English summary) **2005j:83011**
— *see also* **Barros, Manuel et al., 2005m:83020**
Filippov, A. E. *see* **Osetrin, K. E., 2005k:83017**
Fiol, Bartomeu *see* **Drukker, Nadav et al., 2005k:83015**
Francis, Matthew R. (*with* Kosowsky, Arthur) Geodesics in the generalized Schwarzschild solution. (English summary)
Furtado, Claudio *see* **de M. Carvalho, Alexandre M. et al., 2005f:83011**
Geralico, Andrea *see* **Bini, Donato et al., 2005k:83013**; **2005k:83014** *and* **2005m:83021**
Giachetti, Riccardo *see* **Barducci, A., 2005i:83010**
Herrera, L. Geodesics in a quasi-spherical spacetime: a case of gravitational repulsion. (English summary) **2005k:83016**
Hogan, P. A. *see* **Barrabès, Claude, 2005k:83012**
Javaloyes Victoria, Miguel A. *see* **Ferrández, Angel et al., 2005j:83011** *and* **Barros, Manuel et al., 2005m:83020**
Karpov, O. B. Motion of spinning bodies in general relativity. (English and Russian summaries) **2005j:83012**
Kim, Sung-Won Scattering problem for a scalar wave in wormhole geometry. (English and Russian summaries) **2005i:83011**
Klein, David Michael *see* **Collas, Peter, 2005b:83010** *and* **2005g:83014**
Kosowsky, Arthur *see* **Francis, Matthew R.**
Kraniotis, G. V. (*with* Whitehouse, S. B.) Compact calculation of the perihelion precession of Mercury in general relativity, the cosmological constant and Jacobi's inversion problem. (English summary) **2005g:83015**
— Precise relativistic orbits in Kerr and Kerr-(anti) de Sitter spacetimes. (English summary) **2005f:83010**
Kurbanova, Veronika *see* **Balakin, A. B. et al., 2005i:83009** *and* **2005j:83010**
Letelier, Patricio S. Stability of circular orbits of particles moving around black holes surrounded by axially symmetric structures. (English summary) **2005b:83012**
Lucas, Pascual *see* **Ferrández, Angel et al., 2005j:83011** *and* **Barros, Manuel et al., 2005m:83020**
Lunari, Andrea *see* **Bini, Donato et al., 2005m:83021**
Martel, Karl Gravitational waveforms from a point particle orbiting a Schwarzschild black hole. (English summary) **2005d:83008**
Matsas, George E. A. Relativistic Archimedes law for fast moving bodies and the general relativistic resolution of the "submarine paradox". (English summary) **2005e:83012**
de M. Carvalho, Alexandre M. (*with* Furtado, Claudio; Moraes, Fernando) Circular orbits around Schwarzschild-AdS spacetime. (English summary) **2005f:83011**
Moraes, Fernando *see* **de M. Carvalho, Alexandre M. et al., 2005f:83011**
Nieto, J. Antonio *see* **Armenta, J., 2005j:83009**
Osetrin, K. E. (*with* Filippov, A. E.) Homogeneous spacetimes admitting separation of variables in the Hamilton-Jacobi equation for test particles. (English and Russian summaries) **2005k:83017**
Poisson, Eric Radiation reaction of point particles in curved spacetime. (English summary) **2005j:83013**
Preti, Giovanni On charged particle orbits in dipole magnetic fields around Schwarzschild black holes. (English summary) **2005b:83013**
Price, Richard H. Normal forces in stationary spacetimes. (English summary) **2005c:83004**
Ramachandra, B. S. (*with* Vishveshwara, C. V.) Physical effects in the Vaidya-Einstein-Kerr spacetime. (English summary) **2005i:83012**
de Rey Neto, Edgard C. Geodesic deviation in pp-wave spacetimes of quadratic curvature gravity. (English summary) **2005c:83005**
Rizzi, Guido (*with* Ruggiero, Matteo Luca) A direct kinematical derivation of the relativistic Sagnac effect for light or matter beams. (English summary) **2005b:83014**
Roberts, Mark D. Galactic metrics. (English summary) **2005g:83016**
Ruggiero, Matteo Luca *see* **Rizzi, Guido, 2005b:83014**
Russo, Jorge G. (*with* Townsend, Paul Kingsley) Cosmology as relativistic particle mechanics: from big crunch to big bang. (English summary) **2005k:83018**
Saxena, Sonia (*with* Sinha, Tarun Kumar) On geodesic structure of line-element in general relativity. (English summary)
Schäfer, Gerhard Gravitomagnetic effects. (English summary) **2005f:83012**
Simón, Joan *see* **Drukker, Nadav et al., 2005k:83015**
Singh, Parampreet *see* **Anandan, Jeeva S. et al., 2005a:83011**
Sinha, Tarun Kumar *see* **Saxena, Sonia**
Slaný, Petr *see* **Stuchlík, Zdeněk, 2005d:83009**
Stuchlík, Zdeněk (*with* Slaný, Petr) Equatorial circular orbits in the Kerr-de Sitter spacetimes. (English summary) **2005d:83009**
Townsend, Paul Kingsley *see* **Russo, Jorge G., 2005k:83018**
Vishveshwara, C. V. *see* **Ramachandra, B. S., 2005i:83012**
Whitehouse, S. B. *see* **Kraniotis, G. V., 2005g:83015**
Zecca, A. Static massless and time-dependent massive self-gravitating scalar field in spherically symmetric comoving system. (English summary) **2005b:83019**
Zimdahl, Winfried *see* **Balakin, A. B. et al., 2005i:83009**

Items with secondary classifications in 83C10

Angonin, M.-C. *see* **Tourrenc, Ph. et al.**
Beláň, Miroslav *see* **Podolský, Jiří, 2005f:83020**
Burinskiĭ, A. Ya. Axial stringy system of the Kerr spinning particle. (English and Russian summaries)
Burnell, F. (*with* Malecki, Justin John; Mann, Robert B.; Ohta, Tadayuki) Chaos in an exact relativistic three-body self-gravitating system. (English summary) **2005g:83091**
Ciufolini, Ignazio Frame dragging and Lense-Thirring effect. (English summary) **2005f:83007**
Cruz, Norman (*with* Olivares, Marco; Villanueva, José R.) The geodesic structure of the Schwarzschild anti-de Sitter black hole. (English summary) **2005k:83070**
Davies, Paul C. W. Transit time of a freely falling quantum particle in a background gravitational field. (English summary) **2005g:83054**
Drasco, Steve (*with* Hughes, Scott A.) Rotating black hole orbit functionals in the frequency domain. (English summary) **2005e:83044**
Foertsch, Thomas (*with* Hasse, Wolfgang; Perlick, Volker) Inertial forces and photon surfaces in arbitrary spacetimes. (English summary) **2005f:83075**
Francia, Dario (*with* Sagnotti, Augusto) On the geometry of higher-spin gauge fields. (English summary) **2005k:83097**
Friedrich, Helmut Conformal geodesics on vacuum space-times. (English summary) **2005a:53120**
Gao, Chang Jun (*with* Zhang, Shuang Nan) Reissner-Nordström metric in the Friedman-Robertson-Walker universe. (English summary) [Reissner-Nordström metric in the Friedmann-Robertson-Walker universe] **2005h:83024**
Garay, L. J. *see* **González-Díaz, Pedro F., 2005a:83076**
Giambò, Roberto (*with* Giannoni, Fabio; Piccione, Paolo) Gravitational lensing in general relativity via bifurcation theory. (English summary) **2005b:58016**
Giannoni, Fabio *see* **Giambò, Roberto et al., 2005b:58016**
González-Díaz, Pedro F. (*with* Garay, L. J.) Quantum closed timelike curves in general relativity. (English summary) **2005a:83076**
Gorbatenko, M. V. Obtaining equations of motion for charged particles in the $(v/c)^3$-approximation by the Einstein-Infeld-Hoffmann method. (Russian. Russian summary) **2005m:83034**
Gruppuso, Alessandro (*with* Roessl, Ewald; Shaposhnikov, Mikhail) Einstein static universe as a brane in extra dimensions. (English summary) **2005k:83135**
Hasse, Wolfgang *see* **Foertsch, Thomas et al., 2005f:83075**
Hikida, Wataru (*with* Jhingan, Sanjay; Nakano, Hiroyuki; Sago, Norichika; Sasaki, Misao;

Tanaka, Takahiro) A new analytical method for self-force regularization. I. Charged scalar particles in Schwarzschild spacetime. (English summary) **2005d:83027**
— (*with* Jhingan, Sanjay; Nakano, Hiroyuki; Sago, Norichika; Sasaki, Misao; Tanaka, Takahiro) A new analytical method for self-force regularization. II. Testing the efficiency for circular orbits. (English summary) **2005k:83033**
Hughes, Scott A. *see* **Drasco, Steve**, **2005e:83044**
Ishibashi, Akihiro (*with* Wald, Robert M.) Dynamics in non-globally-hyperbolic static spacetimes. III. Anti-de Sitter spacetime. (English summary) **2005j:83015**
Jhingan, Sanjay *see* **Hikida, Wataru et al.**, **2005d:83027** *and* **2005k:83033**
Keller, Jaime General relativity from START. (English summary) **2005h:83015**
Khanna, Gaurav *see* **Strafuss, Matthew J.**, **2005j:83018**
Khrapko, R. I. Classical spin in space with and without torsion. (English and Russian summaries) **2005j:83083**
Malecki, Justin John (*with* Mann, Robert B.) Three-body dynamics in a $(1+1)$-dimensional relativistic self-gravitating system. (English summary) **2005e:83067**
— *see also* **Burnell, F. et al.**, **2005g:83091**
Mann, Robert B. *see* **Malecki, Justin John**, **2005e:83067** *and* **Burnell, F. et al.**, **2005g:83091**
Minguzzi, Ettore On the existence of maximizing curves for the charged-particle action. (English summary) **2005c:58025**
Mirenghi, Elvira (*with* Tucci, Maria) Trajectories in Gödel-type space-times under the action of a vector field. (English summary) **2005a:58021**
Nakano, Hiroyuki *see* **Hikida, Wataru et al.**, **2005d:83027** *and* **2005k:83033**
Nicolas, Jean-Philippe Dirac fields on asymptotically simple space-times. **2005h:83137**
Ohta, Tadayuki *see* **Burnell, F. et al.**, **2005g:83091**
Olivares, Marco *see* **Cruz, Norman et al.**, **2005k:83070**
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Page, Don N. *see* **Vasudevan, Muraari et al.**, **2005k:83095**
Perlick, Volker *see* **Foertsch, Thomas et al.**, **2005f:83075**
Piccione, Paolo *see* **Giambò, Roberto et al.**, **2005b:58016**
Podolský, Jiří (*with* Beláň, Miroslav) Geodesic motion in Kundt spacetimes and the character of the envelope singularity. (English summary) **2005f:83020**
Ponce de Leon, Jaime Electromagnetic mass-models in general relativity reexamined. (English summary) **2005c:83028**
Roessl, Ewald *see* **Gruppuso, Alessandro et al.**, **2005k:83135**
Sagnotti, Augusto *see* **Francia, Dario**, **2005k:83097**
Sago, Norichika *see* **Hikida, Wataru et al.**, **2005d:83027** *and* **2005k:83033**
Sasaki, Misao *see* **Hikida, Wataru et al.**, **2005d:83027** *and* **2005k:83033**
Seggev, Itai Dynamics in stationary, non-globally hyperbolic spacetimes. (English summary) **2005h:81249**
Shaposhnikov, Mikhail *see* **Gruppuso, Alessandro et al.**, **2005k:83135**
Stalker, John G. (*with* Tahvildar-Zadeh, A. Shadi) Scalar waves on a naked-singularity background. (English summary) **2005e:83063**
Stevens, Kory A. *see* **Vasudevan, Muraari et al.**, **2005k:83095**
Strafuss, Matthew J. (*with* Khanna, Gaurav) Massive scalar field instability in Kerr spacetime. (English summary) **2005j:83018**
Tahvildar-Zadeh, A. Shadi *see* **Stalker, John G.**, **2005e:83063**
Tanaka, Takahiro *see* **Hikida, Wataru et al.**, **2005d:83027** *and* **2005k:83033**
Tourrenc, Ph. (*with* Angonin, M.-C.; Ovido, X.) Tidal gravitational effects in a satellite. (English summary)
Tucci, Maria *see* **Mirenghi, Elvira**, **2005a:58021**
Tucker, Robin W. Classical field-particle dynamics in space-time geometries. (English summary) **2005j:83084**
Vasudevan, Muraari (*with* Stevens, Kory A.; Page, Don N.) Particle motion and scalar field propagation in Myers-Perry black-hole spacetimes in all dimensions. (English summary) **2005k:83095**
Villanueva, José R. *see* **Cruz, Norman et al.**, **2005k:83070**
Wald, Robert M. *see* **Ishibashi, Akihiro**, **2005j:83015**
Zecca, A. Neutrino oscillations in Robertson-Walker space-time with torsion. (English summary) **2005g:83025**
Zhang, Shuang Nan *see* **Gao, Chang Jun**, **2005h:83024**

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Abdel-All, Nassar H. (*with* Haggag, S.; Ali, Ahmed T.) Limits of interior H-D solution and Dadhich solution. (English and Arabic summaries) **2005b:83015**
Abdussattar Cosmological models generalizing Robertson-Walker models. (English summary) **2005c:83006**
Acevedo, M. A. (*with* López-Bonilla, J. L.; Vidal-Beltrán, S.) A note on the Lanczos potential for the Kerr metric. (English and Russian summaries)
Ali, Ahmed T. *see* **Abdel-All, Nassar H. et al.**, **2005b:83015**
Ali, Ramadan M. Fluid sources for the Kerr metric. (English summary) **2005h:83020**
— Static cylindrically symmetric stiff matter in general relativity. (English summary) **2005d:83010**
— Rotating cylindrical sources for Lewis space-time. (English summary) **2005h:83021**
Apostolopoulos, Pantelis S. On tilted perfect fluid Bianchi type VI_0 self-similar models. (English summary) **2005g:83017**
Arcos, H. I. (*with* Pereira, J. G.) Kerr-Newman solution as a Dirac particle. (English summary) **2005h:83022**
Balea, A. M. S. Local geometric properties of submanifolds in the Schwarzschild relativistic space. (English summary) **2005i:83013**
Banaru, Mikhail On para-Kählerian an c-para-Kählerian manifolds. (Russian. English and Russian summaries)
Barrabès, Claude (*with* Hogan, P. A.) ★ Singular null hypersurfaces in general relativity. **2005b:83016**
Barrow, John D. (*with* Hervik, Sigbjørn) The future of tilted Bianchi universes. (English summary) **2005b:83017**
— (*with* Tsagas, Christos G.) Dynamics and stability of the Gödel universe. (English summary) **2005c:83007**
— (*with* Tsagas, Christos G.) Structure and stability of the Lukash plane-wave spacetime. (English summary) **2005k:83019**
Barve, Sukratu (*with* Prasanna, A. R.) Reissner Nordström background metric in dynamical coordinates: exceptional behaviour of Hadamard states. (English summary) **2005b:83018**
Beláň, Miroslav *see* **Podolský, Jiří**, **2005f:83020**
Bergamini, Roberto (*with* Viaggiu, Stefano) A novel derivation for Kerr metric in Papapetrou gauge. (English summary) **2005f:83013**
Bičák, Jiří (*with* Ledvinka, T.; Schmidt, B. G.; Žofka, M.) Static fluid cylinders and their fields: global solutions. (English summary) **2005j:83014**
Bini, Donato (*with* Geralico, Andrea) Superposition of Weyl solutions: circular orbits. **2005i:83014**
— (*with* Cherubini, Christian; Mashhoon, Bahram) Vacuum C metric and the gravitational Stark effect. (English summary) **2005h:83023**
Bokhari, A. H. On a cylindrically symmetric static metric admitting proper matter collineations. (English summary) **2005c:83008**
Bonnor, W. B. (*with* Steadman, B. R.) The double-Kerr solution. (English summary) **2005d:83011**
— (*with* Steadman, B. R.) Reply to: "Comment on: 'The double-Kerr solution'" [Classical Quantum Gravity **22** (2005), no. 3, 635–637; MR2115364] by V. S. Manko and E. Ruiz. (English summary)
— *see also* **Manko, V. S.**
Borges, M. F. *see* **Godoy, A. et al.**, **2005a:83016**
Borkar, M. S. The characteristic quantities of Robertson-Walker metric. (English summary)
Brihaye, Yves (*with* Ioannidou, Theodora) SU(5) gravitating monopoles. (English summary) **2005m:83022**
Brügmann, Bernd *see* **Reimann, Bernd**, **2005g:83022**
Burinskiĭ, A. Ya. Orientifold D-string in the source of the Kerr spinning particle. **2005b:83019**
Caltenco, J. H. (*with* López-Bonilla, J. L.; Peña-Rivero, R.) Any empty spacetime has not constant timelike vectors. (English summary)
del Campo, Sergio *see* **García Díaz, Alberto et al.**, **2005b:83021**
Cataldo, Mauricio *see* **García Díaz, Alberto et al.**, **2005b:83021**
Chauvet, Pablo *see* **Meléndez, Leandro**, **2005d:83017**
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Cirilo Lombardo, Diego Julio The Newman-Janis algorithm, rotating solutions and Einstein-Born-Infeld black holes. (English summary) **2005a:83013**
Coley, Alan A. (*with* Hervik, Sigbjørn) A dynamical systems approach to the tilted Bianchi models of solvable type. (English summary) **2005m:83023**
— *see also* **Hervik, Sigbjørn et al.**, **2005m:83026**
Cox, Daniel Vaidya's "Kerr-Einstein" metric cannot be matched to the Kerr metric. (English summary) **2005c:83009**
Delgado, Aldo Hidalgo *see* **Kajari, E. et al.**, **2005f:83015**
Deo, S. D. Axially symmetric Bianchi-I vacuum solutions with background metric. (English summary)
Deser, S. (*with* Jackiw, Roman; Pi, So-Young) Cotton blend gravity pp waves. (English summary) **2005k:83020**
— (*with* Franklin, Joel S.) Schwarzschild and Birkhoff a la Weyl. (English summary) **2005m:83024**
Dias, Óscar J. C. (*with* Lemos, José P. S.) Extremal limits of the C metric: Nariai, Bertotti-Robinson, and anti-Nariai C metrics. (English summary) **2005c:83010**
Dobarro, Fernando (*with* Ünal, Bülent) Special standard static space-times. (English summary) **2005f:83014**
Drukker, Nadav (*with* Fiol, Bartomeu; Simón, Joan) Gödel's universe in a supertube shroud. (English summary) **2005a:83014**
Dryuma, Valerii S. On Riemann extension of the Schwarzschild metric. (English summary) **2005a:83015**
— On geodesical extension of the Schwarzshild space-time. (English summary)
Dymnikova, Irina Self-gravitating spherically symmetric vacuum and Λ-variability. (English and Russian summaries) **2005i:83015**
Espitia, Omar A. *see* **González V., Guillermo A.**, **2005a:83017**
Fatima, Tasnim *see* **Sharif, Mohammad**
Fay, Stéphane Isotropization of Bianchi class A models with a minimally coupled scalar field and a perfect fluid. (English summary) **2005b:83020**
Fayos, Francesc (*with* Senovilla, José M. M.; Torres, Ramón) Spherically symmetric models for charged stars and voids. I. Charge bound. (English summary) **2005c:83011**
— (*with* Torres, Ramón) Spherically symmetric models for stars and voids. II. Constraints on the radial pressures. (English summary) **2005c:83012**
Feroze, T. (*with* Mahomed, F. M.; Qadir, Asghar) Non-static, spherically symmetric, shear-free, perfect-fluid solutions of Einstein's equations. (English summary) **2005d:83012**
Fiol, Bartomeu *see* **Drukker, Nadav et al.**, **2005a:83014**
Franklin, Joel S. *see* **Deser, S.**, **2005m:83024**
Gao, Chang Jun (*with* Zhang, Shuang Nan) Reissner-Nordström metric in the Friedman-Robertson-Walker universe. (English summary) [Reissner-Nordström metric in the Friedmann-Robertson-Walker universe] **2005h:83024**
Gao, Sijie (*with* Lemos, José P. S.) Tolman-Bondi-Vaidya spacetime: matching timelike dust to null dust. (English summary) **2005m:83025**
García Díaz, Alberto (*with* Cataldo, Mauricio; del Campo, Sergio) Relationship between $2+1$ and $3+1$ Friedmann-Robertson-Walker cosmologies. (English summary) **2005b:83021**
Gariel, J. (*with* Marcilhacy, G.; Santos, N. O.) Parametrization of the Kerr-NUT solution. (English summary) **2005e:83013**
Geralico, Andrea *see* **Bini, Donato**, **2005i:83014**
Geršl, J. (*with* Klepáč, P.; Horský, J.) A charged rotating cylindrical shell. (English summary) **2005d:83013**
Girotto, Fernando (*with* Saa, Alberto) Semianalytical approach for the Vaidya metric in double-null coordinates. (English summary) **2005h:83025**
Glass, E. N. (*with* Krisch, J. P.) Spinning up asymptotically flat spacetimes. (English summary) **2005g:83018**
Godoy, A. (*with* Borges, M. F.; Machado, J. M.) Tetrad quaternionic factors and

Riemannian metrics. (English summary) **2005a:83016**

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— *see also* **Shabbir, Ghulam et al., 2005k:83026**

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Flores, J. L. (*with* Parra, Y.; Percoco, U.) On the general structure of Ricci collineations for type B warped space-times. (English summary) **2005d:83022**

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MacCallum, M. Editor's note: "Empty space-times admitting a three parameter group of motions" [Ann. of Math. (2) **53** (1951), 472–490; MR0041565 (12,865b)] by A. H. Taub. **2005g:83030b**

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Qadir, Asghar (*with* Saifullah, Khalid) Comments on matter collineations of plane symmetric, cylindrically symmetric, and spherically symmetric space-times. **2005e:83019**

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Shabbir, Ghulam Proper curvature collineations in Bianchi type I space-times. (English and Russian summaries) **2005a:83024**

— (*with* Bokhari, A. H.; Kashif, A. R.) Proper curvature collineations in cylindrically symmetric static space-time. (English summary) **2005k:83026**

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Items listed otherwise than by author

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Items with secondary classifications in 83C20

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Balakin, A. B. (*with* Lemos, José P. S.) Non-minimal coupling for the gravitational and electromagnetic fields: a general system of equations. (English summary) **2005m:83033**
Barnes, A. P. (*with* LeFloch, Philippe G.; Schmidt, B. G.; Stewart, J. M.) The Glimm scheme for perfect fluids on plane-symmetric Gowdy spacetimes. (English summary) **2005m:83012**
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— *see also* **Milson, Robert et al., 2005m:53026** *and* **Hervik, Sigbjørn et al., 2005m:83026**
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Gad, Ragab M. Energy and momentum associated with a static axially symmetric vacuum spacetime. (English summary) **2005d:83035**
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— ★ Symmetries and curvature structure in general relativity. **2005j:83001**
— (*with* MacNay, Lucy) Sectional curvature and the energy-momentum tensor. (English summary) **2005k:83043**
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Pinto-Neto, N. (*with* Trajtenberg, P. I.) The Hamiltonian of asymptotically Friedmann-Lemaître-Robertson-Walker spacetimes. (English summary) **2005e:83009**
Pleimling, M. (*with* Bagaméry, F. A.; Turban, L.; Iglói, Ferenc) Logarithmic corrections in the two-dimensional Ising model in a random surface field. (English summary)
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— Symmetries of the the energy-momentum tensor. Addendum to: "Symmetries of the energy-momentum tensor of spherically symmetric Lorentzian manifolds" [MR2014850 (2005b:83030)], "Classification of static plane symmetric space-times according to their matter collineations" [MR2043841 (2005h:83059)] and "Symmetries of the energy-momentum tensor of cylindrically symmetric static space-times" [MR2043842 (2005h:83060)]. (English summary) **2005h:83058**
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Bini, Donato (*with* Cherubini, Christian; Jantzen, Robert T.; Miniutti, Giovanni) The Simon and Simon-Mars tensors for stationary Einstein-Maxwell fields. (English summary) **2005b:83032**
de Buyl, Sophie (*with* Pinardi, Gaïa; Schomblond, Christiane) Einstein billiards and spatially homogeneous cosmological models. (English summary) **2005a:83028**
Cai, Rong-Gen (*with* Wang, An Zhong) Nonasymptotically AdS/dS solutions and their higher dimensional origins. (English summary) **2005j:83023**
Chepkunova, E. G. *see* **Ignat'ev, Yu. G., 2005k:83027**
Cherubini, Christian *see* **Bini, Donato et al., 2005b:83032**
Gonçalves, Sérgio M. C. V. Absence of apparent horizons in translationally-invariant Einstein-Maxwell spacetimes. (English summary) **2005a:83029**
Halilsoy, E. (*with* Halilsoy, M.) Nonsingular colliding wave solutions in Einstein-Maxwell-dilaton-axion theory. (English summary) **2005d:83025**
Halilsoy, M. *see* **Halilsoy, E., 2005d:83025**
Havare, Ali (*with* Yetkin, Taylan; Sogut, Kenan) On the equivalence of the massless DKP equation and Maxwell equations in Robertson-Walker spacetime. (English summary)

2005a:83030
— *see also* **Yetkin, Taylan**, 2005a:83033
Horský, J. *see* **Richterek, L.**, 2005k:83029
Ida, Daisuke (*with* Uchida, Yuki) Stationary Einstein-Maxwell fields in arbitrary dimensions. (English summary) 2005c:83015
Ignat'ev, Yu. G. (*with* Chepkunova, E. G.) Exact plane-symmetric non-stationary solution to the Einstein-Maxwell equations for a magnetoactive plasma. (English and Russian summaries) 2005k:83027
Jantzen, Robert T. *see* **Bini, Donato et al.**, 2005b:83032
Klein, Christian On explicit solutions to the stationary axisymmetric Einstein-Maxwell equations describing dust disks. (English summary) 2005a:83031
Lemos, José P. S. *see* **Balakin, A. B.**, 2005m:83033
Miniutti, Giovanni *see* **Bini, Donato et al.**, 2005b:83032
Nijhoff, Frank W. *see* **Tongas, Anastasios**, 2005k:83031
Noundjeu, P. (*with* Noutchegueme, N.) Local existence and continuation criterion for solutions of the spherically symmetric Einstein-Vlasov-Maxwell system. (English summary) 2005e:83023
— (*with* Noutchegueme, N.; Rendall, Alan D.) Existence of initial data satisfying the constraints for the spherically symmetric Einstein-Vlasov-Maxwell system. (English summary) 2005e:83024
Noutchegueme, N. *see* **Noundjeu, P. et al.**, 2005e:83023 *and* 2005e:83024
Nutku, Y. Electrovac pp-waves. (English summary) 2005k:83028
Pinardi, Gaïa *see* **de Buyl, Sophie et al.**, 2005a:83028
Radu, Eugen[2] (*with* Slagter, Reinoud J.) Melvin solution with a dilaton potential. (English summary) 2005b:83033
Rendall, Alan D. *see* **Noundjeu, P. et al.**, 2005e:83024
Richterek, L. (*with* Horský, J.) Weyl metrics and the generating conjecture. (English summary) 2005k:83029
Rizov, Ventseslav A. *see* **Yazadjiev, Stoytcho S.**, 2005a:83032
Rogatko, Marek Staticity theorem for a higher dimensional generalized Einstein-Maxwell system. (English summary) 2005k:83030
Schomblond, Christiane *see* **de Buyl, Sophie et al.**, 2005a:83028
Singh, R. P. *see* **Yadav, R. B. S. et al.**
Sinha, A. K. *see* **Yadav, R. B. S. et al.**
Slagter, Reinoud J. *see* **Radu, Eugen**[2], 2005b:83033
Sogut, Kenan *see* **Havare, Ali et al.**, 2005a:83030
Sotiriou, Thomas P. (*with* Apostolatos, Theocharis A.) Corrections and comments on the multipole moments of axisymmetric electrovacuum spacetimes. (English summary) 2005i:83022
Tongas, Anastasios (*with* Nijhoff, Frank W.) Generalized hyperbolic Ernst equations for an Einstein-Maxwell-Weyl field. (English summary) 2005k:83031
Uchida, Yuki *see* **Ida, Daisuke**, 2005c:83015
Wang, An Zhong *see* **Cai, Rong-Gen**, 2005j:83023
Yadav, R. B. S. (*with* Singh, R. P.; Sinha, A. K.) Static conformally flat spherically symmetric charged fluid distribution in Einstein-Maxwell theory. (English summary)
Yazadjiev, Stoytcho S. (*with* Rizov, Ventseslav A.) Singularity free cosmological solutions of Einstein-Maxwell equations. (English summary) 2005a:83032
Yetkin, Taylan (*with* Havare, Ali) The massless DKP equation and the Maxwell equations in Bianchi type III space-times. (English summary) 2005a:83033
— *see also* **Havare, Ali et al.**, 2005a:83030

Items with secondary classifications in 83C22

Ashtekar, Abhay (*with* Engle, Jonathan; Pawlowski, Tomasz; Van Den Broeck, Chris) Multipole moments of isolated horizons. (English summary) 2005f:83050
Awad, Adel M. Higher-dimensional charged rotating solutions in (A)dS spacetimes. (English summary) 2005e:83076
Cebeci, H. (*with* Dereli, Tekin) Axi-dilaton gravity in $D \geq 4$ dimensional space-times with torsion. (English summary) 2005j:83080
Chae, Dongho On the multi-string solutions of the self-dual static Einstein-Maxwell-Higgs system. (English summary) 2005h:58023
Cherubini, Christian (*with* Ruffini, Remo; Vitagliano, Luca) On the electromagnetic field of a charged collapsing spherical shell in general relativity. (English summary) 2005a:83055
Dafermos, Mihalis Stability and instability of the Cauchy horizon for the spherically symmetric Einstein-Maxwell-scalar field equations. (English summary) 2005f:83009
Dehghani, M. H. Horizonless rotating solutions in $(n+1)$-dimensional Einstein-Maxwell gravity. (English summary) 2005d:83109
— Magnetic branes in Gauss-Bonnet gravity. (English summary) 2005f:83086
— (*with* Farhangkhah, N.) Charged rotating dilaton black strings. (English summary) 2005k:83073
Dereli, Tekin *see* **Cebeci, H.**, 2005j:83080
Edgar, S. Brian On the structure of the new electromagnetic conservation laws. (English summary) 2005f:83033
Engle, Jonathan *see* **Ashtekar, Abhay et al.**, 2005f:83050
Farhangkhah, N. *see* **Dehghani, M. H.**, 2005k:83073
García Díaz, Alberto *see* **Sibgatullin, Nail' Rakhimovich et al.**, 2005e:83021
Harada, Tomohiro *see* **Maeda, Hideki et al.**, 2005k:83086
Ishibashi, Akihiro *see* **Kodama, Hideo**, 2005a:83060
Kodama, Hideo (*with* Ishibashi, Akihiro) Master equations for perturbations of generalised static black holes with charge in higher dimensions. (English summary) 2005a:83060
Letelier, Patricio S. *see* **Vogt, Dietmar**, 2005e:83015
Lunsford, D. R. Gravitation and electrodynamics over SO(3, 3). (English summary) 2005b:83099
Maeda, Hideki (*with* Torii, Takashi[1]; Harada, Tomohiro) Novel Cauchy-horizon instability. (English summary) 2005k:83086
Manko, V. S. *see* **Sibgatullin, Nail' Rakhimovich et al.**, 2005e:83021
Park, Dal-Ho Stationary systems and harmonic potentials. (English summary) 2005a:83023
Pawlowski, Tomasz *see* **Ashtekar, Abhay et al.**, 2005f:83050
Ruffini, Remo *see* **Cherubini, Christian et al.**, 2005a:83055
Sibgatullin, Nail' Rakhimovich (*with* García Díaz, Alberto; Manko, V. S.) General relativistic interaction of massless fields in cylindrical waves. (English summary) 2005e:83021
Tonin-Zanchin, Vilson Charged $(n+1)$-dimensional Einstein-Maxwell systems. (English summary) 2005d:83130
Torii, Takashi[1] *see* **Maeda, Hideki et al.**, 2005k:83086
Van Den Broeck, Chris *see* **Ashtekar, Abhay et al.**, 2005f:83050
Vitagliano, Luca *see* **Cherubini, Christian et al.**, 2005a:83055
Vogt, Dietmar (*with* Letelier, Patricio S.) Exact relativistic static charged dust discs and non-axisymmetric structures. (English summary) 2005e:83015
Zaslavskii, O. B. Classical model of an elementary particle with a Bertotti-Robinson core and extremal black holes. (English summary) 2005i:83019

83C25 Approximation procedures, weak fields

Bičák, Jiří (*with* Lynden-Bell, Donald; Katz, Joseph[1]) Toroidal perturbations of Friedmann-Robertson-Walker universes. (English summary) 2005g:83033
Bini, Donato (*with* Cherubini, Christian; Mashhoon, Bahram) Spin, acceleration and gravity. (English summary) 2005h:83039
Blanchet, Luc (*with* Damour, Thibault; Esposito-Farèse, Gilles) Dimensional regularization of the third post-Newtonian dynamics of point particles in harmonic coordinates. (English summary) 2005d:83026
— (*with* Damour, Thibault; Iyer, Balasubramanian Ramakrishna) Surface-integral expressions for the multipole moments of post-Newtonian sources and the boosted Schwarzschild solution. (English summary) 2005k:83032
— *see also* **Nissanke, Samaya**, 2005m:83036
Bruni, Marco *see* **Sopuerta, Carlos F. et al.**, 2005h:83041
Burko, Lior M. *see* **Price, Richard H.**, 2005j:83024
Cherubini, Christian *see* **Bini, Donato et al.**, 2005h:83039
Damour, Thibault *see* **Blanchet, Luc et al.**, 2005d:83026 *and* 2005k:83032
Esposito-Farèse, Gilles *see* **Blanchet, Luc et al.**, 2005d:83026
Gorbatenko, M. V. Obtaining equations of motion for charged particles in the $(v/c)^3$-approximation by the Einstein-Infeld-Hoffmann method. (Russian. Russian summary) 2005m:83034
Gualtieri, Leonardo *see* **Sopuerta, Carlos F. et al.**, 2005h:83041
Hikida, Wataru (*with* Jhingan, Sanjay; Nakano, Hiroyuki; Sago, Norichika; Sasaki, Misao; Tanaka, Takahiro) A new analytical method for self-force regularization. I. Charged scalar particles in Schwarzschild spacetime. (English summary) 2005d:83027
— (*with* Jhingan, Sanjay; Nakano, Hiroyuki; Sago, Norichika; Sasaki, Misao; Tanaka, Takahiro) A new analytical method for self-force regularization. II. Testing the efficiency for circular orbits. (English summary) 2005k:83033
Iorio, Lorenzo Some comments on a recently derived approximated solution of the Einstein equations for a spinning body with negligible mass. (English summary) 2005g:83034
Iyer, Balasubramanian Ramakrishna *see* **Blanchet, Luc et al.**, 2005k:83032
Jankewicz, Cz. (*with* Nowak, Iwona) Post-post-Newtonian equations of motion for point particles in the general theory of relativity. (Russian) 2005a:83034
Jhingan, Sanjay *see* **Hikida, Wataru et al.**, 2005d:83027 *and* 2005k:83033
Katz, Joseph[1] *see* **Bičák, Jiřiet al.**, 2005g:83033
Kopeikin, Sergei M. (*with* Vlasov, Igor) Parametrized post-Newtonian theory of reference frames, multipolar expansions and equations of motion in the N-body problem. (English summary) 2005h:83040
Letelier, Patricio S. *see* **Ujevic, Maximiliano**
Lin, Chi-Yong *see* **Wang, Bin**[2] **et al.**, 2005h:83042
Logunov, Anatolii Postnewtonian approximation of the relativistic theory of gravity. 2005m:83035
Losic, B. (*with* Unruh, William G.) Initial value problem for second order scalar fluctuations in the Einstein static universe. (English summary) 2005k:83034
Lynden-Bell, Donald *see* **Bičák, Jiřiet al.**, 2005g:83033
Mashhoon, Bahram *see* **Bini, Donato et al.**, 2005h:83039
Memmesheimer, Raoul-Martin (*with* Schäfer, Gerhard) Third post-Newtonian constrained canonical dynamics for binary point masses in harmonic coordinates. (English summary) 2005k:83035
Molina Mendes, Carlos *see* **Wang, Bin**[2] **et al.**, 2005h:83042
Montani, Giovanni (*with* Ruffini, Remo; Zalaletdinov, R.) Modelling self-gravitating macroscopic media in general relativity: solution to Szekeres' model of gravitational quadrupole. (English summary) 2005f:83026
Nakano, Hiroyuki *see* **Hikida, Wataru et al.**, 2005d:83027 *and* 2005k:83033
Nissanke, Samaya (*with* Blanchet, Luc) Gravitational radiation reaction in the equations of motion of compact binaries to 3.5 post-Newtonian order. (English summary) 2005m:83036
Nowak, Iwona Derivation of the post-post-Newtonian equations of motion for the point particles by the EIH approximations method from the Einstein field equations with the Infeld-Plebański stress-energy tensor. (English summary) 2005d:83028
— *see also* **Jankewicz, Cz.**, 2005a:83034
Portilla B., José Gregorio (*with* Villareal, F.) An addendum to the Damour and Deruelle's solution of the post-Newtonian two-body problem. (English summary) 2005g:83035
Price, Richard H. (*with* Burko, Lior M.) Late time tails from momentarily stationary, compact initial data in Schwarzschild spacetimes. (English summary) 2005j:83024
Ruffini, Remo *see* **Montani, Giovanni et al.**, 2005f:83026
Sago, Norichika *see* **Hikida, Wataru et al.**, 2005d:83027 *and* 2005k:83033
Sasaki, Misao (*with* Tagoshi, Hideyuki) Analytic black hole perturbation approach to gravitational radiation. (English summary) 2005g:83036
— *see also* **Hikida, Wataru et al.**, 2005d:83027 *and* 2005k:83033
Schäfer, Gerhard *see* **Memmesheimer, Raoul-Martin**, 2005k:83035
Seidel, Edward Nonlinear impact of perturbation theory on numerical relativity. (English summary) 2005a:83035
Sopuerta, Carlos F. (*with* Bruni, Marco; Gualtieri, Leonardo) Nonlinear N-parameter spacetime perturbations: gauge transformations. (English summary) 2005h:83041
Tagoshi, Hideyuki *see* **Sasaki, Misao**, 2005g:83036
Tanaka, Takahiro *see* **Hikida, Wataru et al.**, 2005d:83027 *and* 2005k:83033

Ujevic, Maximiliano (*with* Letelier, Patricio S.) Stability of general relativistic geometric thin disks. (English summary)
Unruh, William G. *see* **Losic, B., 2005k:83034**
Villareal, F. *see* **Portilla B., José Gregorio, 2005g:83035**
Vlasov, Igor *see* **Kopeikin, Sergei M., 2005h:83040**
Wang, Bin[2] (*with* Lin, Chi-Yong; Molina Mendes, Carlos) Quasinormal behavior of massless scalar field perturbation in Reissner-Nordström anti-de Sitter spacetimes. (English summary) **2005h:83042**
Zalaletdinov, R. *see* **Montani, Giovanni et al., 2005f:83026**

Items with secondary classifications in 83C25

Barrow, John D. (*with* Tsagas, Christos G.) Dynamics and stability of the Gödel universe. (English summary) **2005c:83007**
Bini, Donato (*with* Cherubini, Christian; Mashhoon, Bahram) Vacuum C metric and the gravitational Stark effect. (English summary) **2005h:83023**
— *see also* **Cherubini, Christian et al., 2005j:83020**
Bondi, Hermann Gravitational waves in general relativity. XVI. Standing waves. (English summary) **2005a:83037**
Bruni, Marco *see* **Cherubini, Christian et al., 2005j:83020**
Burnell, F. (*with* Malecki, Justin John; Mann, Robert B.; Ohta, Tadayuki) Chaos in an exact relativistic three-body self-gravitating system. (English summary) **2005g:83091**
Cadoni, Mariano An Einstein-like theory of gravity with a non-Newtonian weak-field limit. (English summary)
Carlip, S. Model-dependence of Shapiro time delay and the 'speed of gravity/speed of light' controversy. (English summary) **2005j:83006**
Chandrasekhar, S. (*with* Ferrari, V.) Errata: "On spherical free gravitational waves" [Proc. Roy. Soc. London Ser. A **443** (1993), no. 1918, 445–449; MR1247651 (94g:83045)].
Cherubini, Christian (*with* Bini, Donato; Bruni, Marco; Perjes, Zoltan) Petrov classification of perturbed spacetimes: the Kasner example. (English summary) **2005j:83020**
— *see also* **Bini, Donato et al., 2005h:83023**
Damour, Thibault (*with* Gopakumar, Achamveedu; Iyer, Balasubramanian Ramakrishna) Phasing of gravitational waves from inspiralling eccentric binaries. (English summary) **2005h:83050**
Faye, Guillaume (*with* Jaranowski, Piotr; Schäfer, Gerhard) Skeleton approximate solution of the Einstein field equations for multiple black-hole systems. (English summary) **2005f:83053**
Ferrari, V. *see* **Chandrasekhar, S.**
Fujita, Ryuichi (*with* Tagoshi, Hideyuki) New numerical methods to evaluate homogeneous solutions of the Teukolsky equation. (English summary) **2005j:83003**
Gopakumar, Achamveedu *see* **Damour, Thibault et al., 2005h:83050**
Haesen, Stefan Vacuum rank 1 space-time perturbations. (English summary) **2005d:83023**
Henry-Couannier, Frederic Discrete symmetries and general relativity, the dark side of gravity. (English summary) **2005m:83098**
Ishak, Mustapha (*with* Lake, Kayll) Inverse approach to Einstein's equations for nonconducting fluids. (English summary) **2005e:83006**
Itin, Yakov Weak field reduction in teleparallel coframe gravity: vacuum case. (English summary) **2005j:83031**
Iyer, Balasubramanian Ramakrishna *see* **Damour, Thibault et al., 2005h:83050**
Jaranowski, Piotr *see* **Faye, Guillaume et al., 2005f:83053**
Karpov, O. B. Motion of spinning bodies in general relativity. (English and Russian summaries) **2005j:83012**
Kopeikin, Sergei M. The speed of gravity in general relativity and theoretical interpretation of the Jovian deflection experiment. (English summary) **2005i:83006**
Lake, Kayll *see* **Ishak, Mustapha, 2005e:83006**
Lau, Stephen R. Rapid evaluation of radiation boundary kernels for time-domain wave propagation on blackholes: theory and numerical methods. (English summary) **2005f:83003**
Lazkoz Saez, R. (*with* Valiente Kroon, Juan Antonio) The Newtonian limit of space-times describing uniformly accelerated particles. (English summary) **2005m:83030**
Lehner, Luis Numerics of the characteristic formulation in Bondi variables. Where we are and what lies ahead. (English summary) **2005b:83008**
Maassen van den Brink, Alec WKB analysis of the Regge-Wheeler equation down in the frequency plane. (English summary) **2005a:83063**
Malecki, Justin John *see* **Burnell, F. et al., 2005g:83091**
Malik, Karim A. (*with* Wands, David) Evolution of second-order cosmological perturbations. (English summary) **2005e:83120**
Mann, Robert B. *see* **Burnell, F. et al., 2005g:83091**
Mashhoon, Bahram *see* **Bini, Donato et al., 2005h:83023**
Nieto, J. Antonio Linearized gravity as a gauge theory. (English summary) **2005h:83158**
Nolan, Brien C. Physical interpretation of gauge invariant perturbations of spherically symmetric space-times. (English summary) **2005j:83022**
Ohta, Tadayuki *see* **Burnell, F. et al., 2005g:83091**
Perjes, Zoltan *see* **Cherubini, Christian et al., 2005j:83020**
Podolský, Jiří *see* **Svítek, O., 2005b:83039**
Poisson, Eric Absorption of mass and angular momentum by a black hole: time-domain formalisms for gravitational perturbations, and the small-hole or slow-motion approximation. (English summary) **2005k:83090**
Schäfer, Gerhard *see* **Faye, Guillaume et al., 2005f:83053**
Svítek, O. (*with* Podolský, Jiří) The Efroimsky formalism for weak gravitational waves adapted to high-frequency perturbations. (English summary) **2005b:83039**
Tagoshi, Hideyuki *see* **Fujita, Ryuichi, 2005j:83003**
Tanimoto, Masayuki Linear perturbations of spatially locally homogeneous spacetimes. (English summary) **2005b:53114**
Tsagas, Christos G. *see* **Barrow, John D., 2005c:83007**
Valiente Kroon, Juan Antonio *see* **Lazkoz Saez, R., 2005m:83030**
Wands, David *see* **Malik, Karim A., 2005e:83120**

83C27 Lattice gravity, Regge calculus and other discrete methods

Ambjørn, Jan (*with* Carfora, Mauro; Marzuoli, A.; Villani, P.) Recent analytical results in 4D-dynamical triangulations. (English summary) **2005h:83043**
— (*with* Jurkiewicz, Jerzy Władysław; Loll, R.) Renormalization of 3d quantum gravity from matrix models. (English summary) **2005k:83036**
Arkani-Hamed, Nima (*with* Schwartz, Matthew D.) Discrete gravitational dimensions. (English summary) **2005f:83027**
Barrett, John W.[2] Geometrical measurements in three-dimensional quantum gravity. (English summary) **2005b:83034**
Bialas, P. (*with* Petersson, B.; Thorleifsson, G.) The weak-coupling limit of 3D simplicial quantum gravity. (English summary)
Carfora, Mauro Discretized gravity and the SU(2) Wess-Zumino-Witten model. (English summary) **2005b:83035**
— *see also* **Ambjørn, Jan et al., 2005h:83043**
Christiansen, Snorre H. A characterization of second-order differential operators on finite element spaces. (English summary) **2005i:83023**
Dowker, Fay (*with* Herbauts, Isabelle) Simulating causal wavefunction collapse models. (English summary) **2005d:83029**
Egawa, H. S. (*with* Horata, S.; Yukawa, Tetsuyuki) Clear evidence of a continuum theory of 4D Euclidean simplicial quantum gravity. (English summary) **2005i:83024**
Freidel, Laurent (*with* Louapre, David) Nonperturbative summation over 3D discrete topologies. (English summary) **2005g:83037**
García-Islas, J. Manuel $(2+1)$-dimensional quantum gravity, spin networks and asymptotics. (English summary) **2005b:83036**
Hagura, Hiroyuki Quantum geometry in dynamical Regge calculus. (English summary) **2005j:83025**
Herbauts, Isabelle *see* **Dowker, Fay, 2005d:83029**
Horata, S. *see* **Egawa, H. S. et al., 2005i:83024**
Jurkiewicz, Jerzy Władysław *see* **Ambjørn, Jan et al., 2005k:83036**
Khatsymovsky, V. M. Length expectation values in quantum Regge calculus. (English summary) **2005e:83025**
— Feynman path integral in area tensor Regge calculus and correspondence principle. (English summary) **2005h:83044**
— Feynman path integral in area tensor Regge calculus and positivity. (English summary) **2005h:83045**
Ling, Yi[3] Discrete gravity and its continuum limit. (English summary) **2005k:83037**
Livine, Etera R. (*with* Perez, Alejandro; Rovelli, Carlo) 2D manifold-independent spinfoam theory. (English summary) **2005c:83016**
Loll, R. *see* **Ambjørn, Jan et al., 2005k:83036**
Louapre, David *see* **Freidel, Laurent, 2005g:83037**
Maran, Suresh K. Relating spin foams and canonical quantum gravity: $(n-1)+1$ formulation of nD spin foams. (English summary) **2005k:83038**
Marzuoli, A. *see* **Ambjørn, Jan et al., 2005h:83043**
Miković, A. Quantum field theory of open spin networks and new spin foam models. (English summary) **2005a:83036**
Perez, Alejandro *see* **Livine, Etera R. et al., 2005c:83016**
Petersson, B. *see* **Bialas, P. et al.**
Pfeiffer, Hendryk Diffeomorphisms from finite triangulations and absence of 'local' degrees of freedom. (English summary) **2005c:83017**
Requardt, Manfred A geometric renormalization group in discrete quantum space-time. (English summary) **2005f:83028**
Rovelli, Carlo *see* **Livine, Etera R. et al., 2005c:83016**
Schwartz, Matthew D. *see* **Arkani-Hamed, Nima, 2005f:83027**
Thorleifsson, G. *see* **Bialas, P. et al.**
Villani, P. *see* **Ambjørn, Jan et al., 2005h:83043**
Wainwright, Chris (*with* Williams, Ruth M.) Area Regge calculus and discontinuous metrics. (English summary) **2005j:83026**
Williams, Ruth M. *see* **Wainwright, Chris, 2005j:83026**
Yukawa, Tetsuyuki *see* **Egawa, H. S. et al., 2005i:83024**
Zubkov, M. A. Measure in the 2D Regge quantum gravity. (English summary) **2005m:83037**

Items with secondary classifications in 83C27

Angel, Omer (*with* Schramm, Oded) Uniform infinite planar triangulations. (English summary) **2005b:60021**
Bittner, Elmar (*with* Janke, Wolfhard; Markum, H.; Riedler, J.) Two-dimensional quantum gravity with matter fields. (English summary) **2005h:83148**
(Bjorken, James) *see* **Rovelli, Carlo, 2005m:83049**
Bogacz, L. The Dirac operator coupled to 2D quantum gravity. (English summary) **2005k:83048**
D'Adda, Alessandro (*with* Kanamori, Issaku; Kawamoto, Noboru; Nagata, Kazuhiro) Twisted superspace on a lattice. (English summary) **2005m:81300**
Egawa, H. S. (*with* Horata, S.; Tsuda, Noritsugu; Yukawa, Tetsuyuki) Phase transition of 4D simplicial quantum gravity with $U(1)$ gauge field. (English summary)
Foster, Brendan Z. (*with* Jacobson, Ted) Quantum field theory on a growing lattice. (English summary) **2005i:81114**
Gambini, Rodolfo (*with* Pullin, Jorge) Discrete quantum gravity: cosmological examples. (English summary) **2005c:83023**
— (*with* Pullin, Jorge) Consistent discretization and loop quantum geometry. (English summary) **2005k:83049**
Hamber, Herbert W. (*with* Williams, Ruth M.) Nonperturbative gravity and the spin of the lattice graviton. (English summary) **2005k:83050**
Horata, S. *see* **Egawa, H. S. et al.**
Jacobson, Ted *see* **Foster, Brendan Z., 2005i:81114**
Janke, Wolfhard *see* **Bittner, Elmar et al., 2005h:83148**
Kádár, Z. (*with* Loll, R.) $(2+1)$ gravity for higher genus in the polygon model. (English summary) **2005f:83072**
— Polygon model from first-order gravity. (English summary) **2005m:83095**
Kanamori, Issaku *see* **D'Adda, Alessandro et al., 2005m:81300**
Kawamoto, Noboru *see* **D'Adda, Alessandro et al., 2005m:81300**
Livine, Etera R. (*with* Oeckl, Robert) Three-dimensional quantum supergravity and supersymmetric spin foam models. (English summary) **2005d:83050**

Loll, R. (*with* Westra, W.) Space-time foam in 2D and the sum over topologies. (English summary) **2005j:83038**
— *see also* **Kádár, Z., 2005f:83072**
Markopoulou, Fotini Planck-scale models of the universe.
Markum, H. *see* **Bittner, Elmar et al., 2005h:83148**
Nagata, Kazuhiro *see* **D'Adda, Alessandro et al., 2005m:81300**
Oeckl, Robert *see* **Livine, Etera R., 2005d:83050**
Oriti, Daniele Feynman propagator for spin foam quantum gravity. (English summary)
Pfeiffer, Hendryk Causal Barrett-Crane model: measure, coupling constant, Wick rotation, symmetries, and observables. (English summary) **2005a:83043**
Pullin, Jorge *see* **Gambini, Rodolfo, 2005c:83023** *and* **2005k:83049**
Riedler, J. *see* **Bittner, Elmar et al., 2005h:83148**
Rovelli, Carlo ★ Quantum gravity. **2005m:83049**
— Dynamics without time for quantum gravity: covariant Hamiltonian formalism and Hamilton-Jacobi equation on the space $\mathscr{F}$. (English summary) **2005d:83056**
Schramm, Oded *see* **Angel, Omer, 2005b:60021**
Tsuda, Noritsugu *see* **Egawa, H. S. et al.**
Westra, W. *see* **Loll, R., 2005j:83038**
Williams, Ruth M. *see* **Hamber, Herbert W., 2005k:83050**
Yukawa, Tetsuyuki *see* **Egawa, H. S. et al.**
Zapata, José A. Loop quantization from a lattice gauge theory perspective. (English summary) **2005g:83053**
Zizzi, Paola A. A minimal model for quantum gravity. (English summary) **2005k:83061**

83C30 Asymptotic procedures (radiation, news functions, $\mathscr{H}$-spaces, etc.)

Anderson, Michael T. Asymptotic behaviour of future-complete cosmological spacetimes. (English summary) **2005d:83030**
Arcioni, Giovanni (*with* Dappiaggi, Claudio) Holography in asymptotically flat spacetimes and the BMS group. (English summary) **2005h:83046**
Baskaran, D. (*with* Lau, Stephen R.; Petrov, Aleksandr Nikolaevich) Center of mass integral in canonical general relativity. (English summary) **2005b:83037**
Benacquista, M. J. *see* **Sedrakyan, D. M. et al.**
Chruściel, Piotr T. (*with* Jezierski, Jacek; Łęski, Szymon) The Trautman-Bondi mass of hyperboloidal initial data sets. (English summary) **2005j:83027**
Dappiaggi, Claudio Elementary particles, holography and the BMS group. (English summary) **2005m:83038**
— *see also* **Arcioni, Giovanni, 2005h:83046**
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Frauendiener, Jörg Conformal infinity. (English summary) **2005e:83026**
Hairapetyan, M. V. *see* **Sedrakyan, D. M. et al.**
Hancock, M. J. *see* **Horwood, Joshua T. et al., 2005c:83018**
Hayward, Sean A. Spatial and null infinity via advanced and retarded conformal factors. (English summary) **2005d:83031**
Hollands, Stefan (*with* Wald, Robert M.) Conformal null infinity does not exist for radiating solutions in odd spacetime dimensions. (English summary) **2005k:83039**
— (*with* Ishibashi, Akihiro) Asymptotic flatness and Bondi energy in higher dimensional gravity. (English summary) **2005m:83039**
Horwood, Joshua T. (*with* Hancock, M. J.; The, Dennis; Wainwright, John) Late-time asymptotic dynamics of Bianchi VIII cosmologies. (English summary) **2005c:83018**
Ishibashi, Akihiro *see* **Hollands, Stefan, 2005m:83039**
Jezierski, Jacek *see* **Chruściel, Piotr T. et al., 2005j:83027**
Klainerman, Sergiu (*with* Nicolò, Francesco) Peeling properties of asymptotically flat solutions to the Einstein vacuum equations. (English summary) **2005b:83038a**
— (*with* Nicolò, Francesco) Corrigendum: "Peeling properties of asymptotically flat solutions to the Einstein vacuum equations" [Classical Quantum Gravity **20** (2003), no. 14, 3215–3257; MR1992002 (2005b:83038a)]. **2005b:83038b**
Krtouš, Pavel (*with* Podolský, Jiří) Gravitational and electromagnetic fields near an anti-de Sitter-like infinity. (English summary) **2005e:83027**
— (*with* Podolský, Jiří) Asymptotic directional structure of radiation for fields of algebraic type *D*. (English summary) **2005j:83028**
Lau, Stephen R. *see* **Baskaran, D. et al., 2005b:83037**
Łęski, Szymon *see* **Chruściel, Piotr T. et al., 2005j:83027**
Malec, Edward (*with* Ó Murchadha, Niall) The Jang equation, apparent horizons and the Penrose inequality. (English summary) **2005i:83025**
Maluf, J. W. (*with* Faria, F. F.) On gravitational radiation and the energy flux of matter. (English summary) **2005e:83028**
Malykh, A. A. (*with* Nutku, Y.; Sheftel′, M. B.) Partner symmetries and non-invariant solutions of four-dimensional heavenly equations. (English summary) **2005g:83038**
Mason, Lionel J. (*with* Nicolas, Jean-Philippe) Conformal scattering and the Goursat problem. (English summary) **2005i:83026**
Nicolas, Jean-Philippe *see* **Mason, Lionel J., 2005i:83026**
Nicolò, Francesco *see* **Klainerman, Sergiu, 2005b:83038a** *and* **2005b:83038b**
Nutku, Y. *see* **Malykh, A. A. et al., 2005g:83038**
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Podolský, Jiří *see* **Krtouš, Pavel, 2005e:83027** *and* **2005j:83028**
Sadoyan, A. A. *see* **Sedrakyan, D. M. et al.**
Sedrakyan, D. M. (*with* Benacquista, M. J.; Hairapetyan, M. V.; Shahabasyan, K. M.; Sadoyan, A. A.) Gravitational radiation from differentially rotating white dwarfs. (English summary)
Shahabasyan, K. M. *see* **Sedrakyan, D. M. et al.**
Sheftel′, M. B. *see* **Malykh, A. A. et al., 2005g:83038**
Sultana, J. (*with* Dyer, C. C.) Conformal Killing horizons. (English summary) **2005h:83047**
The, Dennis *see* **Horwood, Joshua T. et al., 2005c:83018**
Valiente Kroon, Juan Antonio Time asymmetric spacetimes near null and spatial infinity. I. Expansions of developments of conformally flat data. (English summary) **2005h:83048**
— A new class of obstructions to the smoothness of null infinity. (English summary) **2005h:83049**
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Items with secondary classifications in 83C30

Apostolatos, Theocharis A. *see* **Sotiriou, Thomas P., 2005i:83022**
Bartnik, Robert A. Bondi mass in the NQS gauge. (English summary) **2005c:83019**
Blum, Julie D. Gravitational radiation from traveling waves on D strings. (English summary) **2005c:83071**
Chruściel, Piotr T. (*with* Herzlich, Marc) The mass of asymptotically hyperbolic Riemannian manifolds. (English summary) **2005d:53052**
Friedrich, Helmut Smoothness at null infinity and the structure of initial data. (English summary) **2005h:83014**
Glass, E. N. (*with* Krisch, J. P.) Spinning up asymptotically flat spacetimes. (English summary) **2005g:83018**
Herzlich, Marc L'inégalité de Penrose (d'après H. Bray, G. Huisken et T. Ilmanen, ...). (French summary) [The Penrose inequality (following H. Bray, G. Huisken and T. Ilmanen, et al.)] **2005d:53057**
— *see also* **Chruściel, Piotr T., 2005d:53052**
Klein, Christian Binary black hole spacetimes with a helical Killing vector. (English summary) **2005i:83069**
Korbicz, Jarosław (*with* Tafel, J.) Lagrangian and Hamiltonian for the Bondi-Sachs metrics. (English summary) **2005g:83012**
Krisch, J. P. *see* **Glass, E. N., 2005g:83018**
Krtouš, Pavel *see* **Podolský, Jiřiet al., 2005c:83041**
Lehner, Luis Numerics of the characteristic formulation in Bondi variables. Where we are and what lies ahead. (English summary) **2005b:83008**
Ortaggio, Marcello *see* **Podolský, Jiřiet al., 2005c:83041**
Podolský, Jiří (*with* Ortaggio, Marcello; Krtouš, Pavel) Radiation from accelerated black holes in an anti-de Sitter universe. (English summary) **2005c:83041**
Qing, Jie On the uniqueness of AdS space-time in higher dimensions. (English summary) **2005g:53143**
Sasaki, Misao (*with* Tagoshi, Hideyuki) Analytic black hole perturbation approach to gravitational radiation. (English summary) **2005g:83036**
Sheftel′, M. B. The method of group foliation, hodograph transformation, and non-invariant solutions of the "heavenly equation". (Russian. Russian summary) **2005i:35013**
Shiromizu, Tetsuya (*with* Tomizawa, Shinya) Spatial infinity in higher dimensional spacetimes. (English summary) **2005h:83212**
Sotiriou, Thomas P. (*with* Apostolatos, Theocharis A.) Corrections and comments on the multipole moments of axisymmetric electrovacuum spacetimes. (English summary) **2005i:83022**
Tafel, J. *see* **Korbicz, Jarosław, 2005g:83012**
Tagoshi, Hideyuki *see* **Sasaki, Misao, 2005g:83036**
Tomizawa, Shinya *see* **Shiromizu, Tetsuya, 2005h:83212**

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Agresti, Juri (*with* De Pietri, Roberto; Lusanna, Luca; Martucci, Luca) Hamiltonian linearization of the rest-frame instant form of tetrad gravity in a completely fixed 3 orthogonal gauge: a radiation gauge for background-independent gravitational waves in a post-Minkowskian Einstein spacetime. (English summary) **2005d:83032**
Alekseev, G. A. (*with* Griffiths, J. B.) Collision of plane gravitational and electromagnetic waves in a Minkowski background: solution of the characteristic initial value problem. (English summary) **2005i:83027**
Barbero G., J. Fernando (*with* Mena Marugán, Guillermo A.; Villaseñor, Eduardo J. S.) Asymptotic analysis of quantum light cones for cylindrical gravitational waves. (English summary) **2005j:83029**
Baskaran, D. (*with* Grishchuk, L. P.) Components of the gravitational force in the field of a gravitational wave. (English summary) **2005i:83028**
Bičák, Jiří *see* **Kouletsis, Ioannis et al., 2005a:83038**
Bondi, Hermann Gravitational waves in general relativity. XVI. Standing waves. (English summary) **2005a:83037**
Bradley, Michael *see* **Källberg, Andreas et al.**
Brodin, Gert *see* **Källberg, Andreas et al.**
Canfora, Fabrizio (*with* Vilasi, Gaetano; Vitale, Patrizia) Spin-1 gravitational waves. (English summary) **2005f:83029**
Chandrasekhar, S. (*with* Ferrari, V.) Errata: "On spherical free gravitational waves" [Proc. Roy. Soc. London Ser. A **443** (1993), no. 1918, 445–449; MR1247651 (94g:83045)].
Chugreev, Yu. V. Is the causality principle violated for gravitational waves? (Russian. Russian summary) **2005d:83033**
Damour, Thibault (*with* Gopakumar, Achamveedu; Iyer, Balasubramanian Ramakrishna) Phasing of gravitational waves from inspiralling eccentric binaries. (English summary) **2005h:83050**
De Pietri, Roberto *see* **Agresti, Juri et al., 2005d:83032**
Fabris, J. C. (*with* Gonçalves, S. V. B.; Santos, Marcell S.) Gravitational waves in the generalized Chaplygin gas model. (English summary) **2005g:83039**
Ferrari, V. *see* **Chandrasekhar, S.**
Gauthier, Claude The amplification of non-linear travelling waves through a tree of 3-strings. (English summary) **2005h:83051**
Gonçalves, S. V. B. *see* **Fabris, J. C. et al., 2005g:83039**
Gong, Jinn-Ouk General slow-roll spectrum for gravitational waves. (English summary) **2005f:83030**
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Griffiths, J. B. *see* **Alekseev, G. A., 2005i:83027**
Grishchuk, L. P. *see* **Baskaran, D., 2005i:83028**
Hájíček, Petr *see* **Kouletsis, Ioannis et al., 2005a:83038**
Henriques, Alfredo B. The stochastic gravitational-wave background and the inflation to radiation transition in the early universe. (English summary)

Hervik, Sigbjørn Solvegeometry gravitational waves. (English summary) **2005k:83040**
Hogan, P. A. (*with* O'Shea, E. M.) Erratum: "Gravitational wave propagation in isotropic cosmologies" [Phys. Rev. D. (3) **65** (2002), no. 12, 124017, 12 pp.; MR1926195 (2003i:83023)]. **Iyer, Balasubramanian Ramakrishna** *see* **Damour, Thibault et al., 2005h:83050**
Izquierdo, Germán (*with* Pavón, Diego) Relic gravitational waves and the generalized second law. (English summary) **2005i:83029**
Jumale, J. K. (*with* Thengane, K. D.) $[\frac{1}{\sqrt{2}}(y+z)-t]$-type and $[t\sqrt{2}/(y+z)]$-type plane waves in four dimensional space-time. (English summary)
Källberg, Andreas (*with* Brodin, Gert; Bradley, Michael) Nonlinear coupled Alfvén and gravitational waves. (English summary)
Kiuchi, Kenta (*with* Maeda, Kei-ichi) Gravitational waves from a chaotic dynamical system. (English summary) **2005j:83030**
Kouletsis, Ioannis (*with* Hájiček, Petr; Bičák, Jiří) Gauge-invariant Hamiltonian dynamics of cylindrical gravitational waves. (English summary) **2005a:83038**
Lusanna, Luca *see* **Agresti, Juri et al., 2005d:83032**
Maeda, Kei-ichi *see* **Kiuchi, Kenta, 2005j:83030**
Marinho, Rubens M. *see* **de Paula, Wayne L. S. et al., 2005g:83041**
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Miranda, Oswaldo D. *see* **de Paula, Wayne L. S. et al., 2005g:83041**
Obukhov, Yu. N. Generalized plane-fronted gravitational waves in any dimension. (English summary) **2005g:83040**
O'Shea, E. M. *see* **Hogan, P. A.**
de Paula, Wayne L. S. (*with* Miranda, Oswaldo D.; Marinho, Rubens M.) Polarization states of gravitational waves with a massive graviton. (English summary) **2005g:83041**
Pavón, Diego *see* **Izquierdo, Germán, 2005i:83029**
Podolský, Jiří *see* **Svítek, O., 2005b:83039**
Santos, Marcell S. *see* **Fabris, J. C. et al., 2005g:83039**
Sekiguchi, Yu-ichirou *see* **Shibata, Masaru[1]**
Shibata, Masaru[1] (*with* Sekiguchi, Yu-ichirou) Gravitational waves from axisymmetric rotating stellar core collapse to a neutron star in full general relativity. (English summary)
Svítek, O. (*with* Podolský, Jiří) The Efroimsky formalism for weak gravitational waves adapted to high-frequency perturbations. (English summary) **2005b:83039**
Thengane, K. D. *see* **Jumale, J. K.**
Vilasi, Gaetano *see* **Canfora, Fabrizio et al., 2005f:83029**
Villaseñor, Eduardo J. S. *see* **Barbero G., J. Fernando et al., 2005j:83029**
Vitale, Patrizia *see* **Canfora, Fabrizio et al., 2005f:83029**

Items with secondary classifications in 83C35

Alesci, Emanuele (*with* Montani, Giovanni) Phenomenology for an extra dimension from gravitational waves propagation on a Kaluza-Klein space-time. (English summary) **2005k:83121**
Balakin, A. B. (*with* Kurbanova, Veronika) Anomalous polarization-curvature interaction in a gravitational-wave field. (English and Russian summaries) **2005j:83010**
Barbero G., J. Fernando (*with* Mena Marugán, Guillermo A.; Villaseñor, Eduardo J. S.) Asymptotic analysis of field commutators for Einstein-Rosen gravitational waves. (English summary) **2005d:83058**
Barrabès, Claude (*with* Hogan, P. A.) ★ Singular null hypersurfaces in general relativity. **2005b:83016**
Canfora, Fabrizio (*with* Vilasi, Gaetano) PP-waves, Israel's matching conditions, braneworld scenarios and BPS states in gravity. (English summary) **2005m:83121**
Chen, Ying-Tian *see* **Zhang, Yang[1] et al., 2005j:83159**
Coley, Alan A. (*with* Hervik, Sigbjørn) Brane waves. (English summary) **2005j:83088**
D'Appollonio, Giuseppe Gravitational waves from WZW models. (English summary) **2005b:83115**
Deo, S. D. (*with* Thengane, K. D.) Existence of $[\sqrt{x^2+y^2+z^2}-t]$-type plane gravitational wave in bimetric relativity. (English summary) **2005g:83097**
Dereli, Tekin (*with* Tucker, Robin W.) On the energy-momentum density of gravitational plane waves. (English summary) **2005b:83042**
Deser, S. (*with* Jackiw, Roman; Pi, So-Young) Cotton blend gravity pp waves. (English summary) **2005k:83020**
Easther, Richard (*with* Langlois, David; Maartens, Roy; Wands, David) Evolution of gravitational waves in Randall-Sundrum cosmology. (English summary) **2005h:83190**
Fujita, Ryuichi (*with* Tagoshi, Hideyuki) New numerical methods to evaluate homogeneous solutions of the Teukolsky equation. (English summary) **2005j:83003**
Hervik, Sigbjørn *see* **Coley, Alan A., 2005j:83088**
Hogan, P. A. *see* **Barrabès, Claude, 2005b:83016**
Hollands, Stefan (*with* Wald, Robert M.) Conformal null infinity does not exist for radiating solutions in odd spacetime dimensions. (English summary) **2005k:83039**
Ichiki, Kiyotomo (*with* Nakamura, Kouji) Causal structure and gravitational waves in brane world cosmology. (English summary) **2005h:83194**
Jackiw, Roman *see* **Deser, S. et al., 2005k:83020**
Kim, Sang Pyo *see* **Koh, Seoktae et al., 2005j:83154**
Koh, Seoktae (*with* Kim, Sang Pyo; Song, Doo Jong) Gravitational wave spectrum in inflation with nonclassical states. (English summary) **2005j:83154**
Kumar, Alok[2] Gravitational waves in string theory in anti-de Sitter background. (English summary) **2005b:83126**
— (*with* Kunduri, Hari K.) Gravitational wave solutions in string and M-theory AdS backgrounds. (English summary) **2005i:83120**
Kunduri, Hari K. *see* **Kumar, Alok[2], 2005i:83120**
Kurbanova, Veronika *see* **Balakin, A. B., 2005j:83010**
Langlois, David *see* **Easther, Richard et al., 2005h:83190**
Lehner, Luis (*with* Reula, Oscar A.) Status quo and open problems in the numerical construction of spacetimes. (English summary) **2005i:83002**
Maartens, Roy *see* **Easther, Richard et al., 2005h:83190**
Maassen van den Brink, Alec WKB analysis of the Regge-Wheeler equation down in the frequency plane. (English summary) **2005a:83063**
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Pi, So-Young *see* **Deser, S. et al., 2005k:83020**
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de Rey Neto, Edgard C. Geodesic deviation in pp-wave spacetimes of quadratic curvature gravity. (English summary) **2005c:83005**
Sahoo, B. K. (*with* Singh, Lambodar Prasad) Gravitational waves in generalised Brans-Dicke theory. (English summary)
Sasaki, Misao (*with* Tagoshi, Hideyuki) Analytic black hole perturbation approach to gravitational radiation. (English summary) **2005g:83036**
Singh, Lambodar Prasad *see* **Sahoo, B. K.**
Song, Doo Jong *see* **Koh, Seoktae et al., 2005j:83154**
Tagoshi, Hideyuki *see* **Sasaki, Misao, 2005g:83036** *and* **Fujita, Ryuichi, 2005j:83003**
Thengane, K. D. $[\sqrt{x^2+y^2+z^2}-t]$-type and $[t/\sqrt{x^2+y^2+z^2}]$-type plane waves in n-dimensional space-time. (English summary) **2005g:83113**
— *see also* **Deo, S. D., 2005g:83097**
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Vinet, Jean-Yves Mirror thermal noise in flat-beam cavities for advanced gravitational wave interferometers. (English summary)
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Wands, David *see* **Easther, Richard et al., 2005h:83190**
Yuan, Yefei *see* **Zhang, Yang[1] et al., 2005j:83159**
Zhang, Yang[1] (*with* Yuan, Yefei; Zhao, Wen[1]; Chen, Ying-Tian) Relic gravitational waves in the accelerating Universe. (English summary) **2005j:83159**
Zhao, Wen[1] *see* **Zhang, Yang[1] et al., 2005j:83159**

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Allemandi, Gianluca (*with* Fatibene, Lorenzo; Ferraris, Marco; Francaviglia, Mauro; Raiteri, M.) Nöther conserved quantities and entropy in general relativity. (English summary) **2005b:83040**
Barnich, Glenn Boundary charges in gauge theories: using Stokes theorem in the bulk. (English summary) **2005g:83042**
— (*with* Leclercq, Serge; Spindel, Philippe) Classification of surface charges for a spin 2 field on a curved background solution. (English summary) **2005h:83052**
Bartnik, Robert A. Bondi mass in the NQS gauge. (English summary) **2005c:83019**
Basini, Giuseppe (*with* Capozziello, Salvatore) A dynamical unification scheme from general conservation laws. (English summary) **2005b:83041**
— (*with* Bongiorno, Fulvio; Capozziello, Salvatore; Longo, Giuseppe[2]) The space of general conservation laws and topology changes. (English summary) **2005d:83034**
Boillat, Guy (*with* Ruggeri, Tommaso) Energy momentum, wave velocities and characteristic shocks in Euler's variational equations with application to the Born-Infeld theory. (English summary) **2005h:83053**
Bongiorno, Fulvio *see* **Basini, Giuseppe et al., 2005d:83034**
Capozziello, Salvatore *see* **Basini, Giuseppe et al., 2005b:83041** *and* **2005d:83034**
Carter, Brandon Energy dominance and the Hawking-Ellis vacuum conservation theorem. (*see* **2005j:83002**)
Castello-Branco, K. H. C. *see* **Maluf, J. W. et al., 2005i:83033**
Chee, G. Y. Self-dual teleparallel formulation of general relativity and the positive energy theorem. (English summary) **2005h:83054**
Chruściel, Piotr T. (*with* Galloway, Gregory J.) A poor man's positive energy theorem. (English summary) **2005k:83041**
Cotăescu, Ion I. (*with* Visinescu, Mihai) The induced representation of the isometry group of the Euclidean Taub-NUT space and new spherical harmonics. (English summary) **2005h:83055**
Dąbrowski, Mariusz P. (*with* Garecki, Janusz) Energy-momentum and angular momentum of Gödel universes. (English summary) **2005i:83030**
Dereli, Tekin (*with* Tucker, Robin W.) On the energy-momentum density of gravitational plane waves. (English summary) **2005b:83042**
Deruelle, Nathalie (*with* Katz, Joseph[1]; Ogushi, Sachiko) Conserved charges in Einstein Gauss-Bonnet theory. (English summary) **2005b:83043**
— (*with* Morisawa, Yoshiyuki) Mass and angular momenta of Kerr anti-de Sitter spacetimes in Einstein-Gauss-Bonnet theory. (English summary) **2005k:83042**
Deser, S. A note on matter superenergy tensors. (English summary) **2005f:83031**
Edgar, S. Brian (*with* Wingbrant, Ola) Old and new results for superenergy tensors from dimensionally dependent tensor identities. (English summary) **2005f:83032**
— On the structure of the new electromagnetic conservation laws. (English summary) **2005f:83033**
Faria, F. F. *see* **Maluf, J. W. et al., 2005i:83033**
Fatibene, Lorenzo *see* **Allemandi, Gianluca et al., 2005b:83040**
Ferraris, Marco *see* **Allemandi, Gianluca et al., 2005b:83040**
Francaviglia, Mauro (*with* Raiteri, M.) Boundary conditions, energies and gravitational heat in general relativity (a classical analysis). (English summary) **2005f:83034**
— *see also* **Allemandi, Gianluca et al., 2005b:83040**
Gad, Ragab M. Energy and momentum associated with a static axially symmetric vacuum spacetime. (English summary) **2005d:83035**
Galloway, Gregory J. *see* **Chruściel, Piotr T., 2005k:83041**
Gamboa Saraví, Ricardo E. On the energy-momentum tensor. (English summary) **2005h:83056**
Garecki, Janusz *see* **Dąbrowski, Mariusz P., 2005i:83030**
Hall, G. S. (*with* Sharif, Mohammad) The determination of the metric by the Weyl and energy-momentum tensors. (English summary) **2005d:83036**
— (*with* MacNay, Lucy) Sectional curvature and the energy-momentum tensor. (English summary) **2005k:83043**
Havare, Ali *see* **Salti, Mustafa, 2005k:83045**

Henneaux, Marc (*with* Teitelboim, Claudio) Duality in linearized gravity. (English summary) **2005k:83044**
Itin, Yakov Weak field reduction in teleparallel coframe gravity: vacuum case. (English summary) **2005j:83031**
Karkowski, Janusz (*with* Malec, Edward) The general Penrose inequality: lessons from numerical evidence. (English summary) **2005i:83031**
Kastor, David (*with* Traschen, Jennie) Conserved gravitational charges from Yano tensors. (English summary) **2005i:83032**
Katz, Joseph[1] *see* **Deruelle, Nathalie et al., 2005b:83043**
Leclercq, Serge *see* **Barnich, Glenn et al., 2005h:83052**
Liu, Chiu-Chu Melissa (*with* Yau, Shing-Tung) Liu and Yau reply: "Comment on: 'Positivity of Quasilocal mass' " [Phys. Rev. Lett. **92** (2004), no. 25, 259001, 1 p.; MR2114434 (2005m:83040)] by N. Ó. Murchadha, L. B. Szabados and K. P. Tod. **2005m:83041**
— *see also* **Ó Murchadha, Niall et al., 2005m:83040**
Longo, Giuseppe[2] *see* **Basini, Giuseppe et al., 2005d:83034**
López-Bonilla, J. L. (*with* Morales, Jesús; Ovando Zúñiga, Gerardo) Continuity equations in Riemannian spaces. (English summary)
MacNay, Lucy *see* **Hall, G. S., 2005k:83043**
Malec, Edward *see* **Karkowski, Janusz, 2005i:83031**
Maluf, J. W. (*with* Faria, F. F.; Castello-Branco, K. H. C.) The gravitational energy-momentum flux. (English summary) **2005i:83033**
Menskiĭ, M. B. Energy conservation and equivalence principle in general relativity. (English summary) **2005b:83044**
Morales, Jesús *see* **López-Bonilla, J. L. et al.**
Moreschi, Osvaldo M. Intrinsic angular momentum and centre of mass in general relativity. (English summary) **2005f:83035**
Morisawa, Yoshiyuki *see* **Deruelle, Nathalie, 2005k:83042**
Nester, James M. General pseudotensors and quasilocal quantities. (English summary) **2005c:83020**
Ogushi, Sachiko *see* **Deruelle, Nathalie et al., 2005b:83043**
Ó Murchadha, Niall (*with* Szabados, L. B.; Tod, Kenneth Paul) Comment on: "Positivity of quasilocal mass" [Phys. Rev. Lett. **90** (2003), no. 23, 231102, 4 pp.; MR2000281 (2004g:83031)] by C.-C. M. Liu and S.-T. Yau. **2005m:83040**
— *see also* **Liu, Chiu-Chu Melissa, 2005m:83041**
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Salti, Mustafa (*with* Havare, Ali) Energy-momentum in viscous Kasner-type universe in Bergmann-Thomson formulations. (English summary) **2005k:83045**
Sharif, Mohammad Errata: "Energy and momentum associated with Gödel universe" [Internat. J. Modern Phys. A **18** (2003), no. 24, 4361–4370; MR2009529 (2004k:83043)]. **2005c:83021**
— Energy and momentum in spacetime homogeneous Gödel-type metrics. (English summary) **2005h:83057**
— Classification of static plane symmetric space-times according to their matter collineations. (English summary) **2005h:83059**
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— Symmetries of the the energy-momentum tensor. Addendum to: "Symmetries of the energy-momentum tensor of spherically symmetric Lorentzian manifolds" [MR2014850 (2005b:83030)], "Classification of static plane symmetric space-times according to their matter collineations" [MR2043841 (2005h:83059)] and "Symmetries of the energy-momentum tensor of cylindrically symmetric static space-times" [MR2043842 (2005h:83060)]. (English summary) **2005h:83058**
— *see also* **Hall, G. S., 2005d:83036**
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Items with secondary classifications in 83C40

Allemandi, Gianluca (*with* Francaviglia, Mauro; Raiteri, M.) Charges and energy in Chern-Simons theories and Lovelock gravity. (English summary) **2005c:83057**
Andersson, Lars Åke Bel-Robinson energy and constant mean curvature foliations. (English summary) **2005g:83010**
Ashtekar, Abhay (*with* Krishnan, Badri) Dynamical horizons and their properties. (English summary) **2005c:83030**
— (*with* Engle, Jonathan; Pawlowski, Tomasz; Van Den Broeck, Chris) Multipole moments of isolated horizons. (English summary) **2005f:83050**
Balasin, H. (*with* Grumiller, Daniel) The ultrarelativistic limit of 2D dilaton gravity and its energy-momentum tensor. (English summary) **2005e:83064**
Baleanu, Dumitru (*with* Defterli, Özlem) Killing-Yano tensors and angular momentum. (English summary) **2005e:83016**
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Czuchry, Ewa (*with* Jezierski, Jacek; Kijowski, Jerzy) Dynamics of a gravitational field within a wave front and thermodynamics of black holes. (English summary) **2005k:83071**
Defterli, Özlem *see* **Baleanu, Dumitru, 2005e:83016**
Deruelle, Nathalie (*with* Katz, Joseph[1]) On the mass of a Kerr–anti-de Sitter spacetime in *D* dimensions. (English summary) **2005i:83102**
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Hollands, Stefan (*with* Ishibashi, Akihiro) Asymptotic flatness and Bondi energy in higher dimensional gravity. (English summary) **2005m:83039**
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Kijowski, Jerzy *see* **Czuchry, Ewa et al., 2005k:83071**
Kim, Eui Chul Remark on the limit case of positive mass theorem for manifolds with inner boundary. (English summary) **2005a:53061**
Konar, Arabinda (*with* Biswas, Bijita) Space-time with covariant-recurrent energy-momentum tensor. (English summary) **2005i:83020**
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Maluf, J. W. (*with* Faria, F. F.) On gravitational radiation and the energy flux of matter. (English summary) **2005e:83028**
Matyjasek, Jerzy (*with* Zaslavskii, O. B.) Extremal limit for charged and rotating $2+1$-dimensional black holes and Bertotti-Robinson geometry. (English summary) **2005f:83058**
Miao, Pengzi Positive mass theorem on manifolds admitting corners along a hypersurface. (English summary) **2005a:53065**
— Variational effect of boundary mean curvature on ADM mass in general relativity. (English summary) **2005c:53098**
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Pawlowski, Tomasz *see* **Ashtekar, Abhay et al., 2005f:83050**
Pinto-Neto, N. (*with* Trajtenberg, P. I.) The Hamiltonian of asymptotically Friedmann-Lemaître-Robertson-Walker spacetimes. (English summary) **2005e:83009**
Poisson, Eric Absorption of mass and angular momentum by a black hole: time-domain formalisms for gravitational perturbations, and the small-hole or slow-motion approximation. (English summary) **2005k:83090**
Pozo, Jose M. (*with* Parra, Josep M.) r-fold multivectors and superenergy. (English summary) **2005d:83089**
Raiteri, M. *see* **Allemandi, Gianluca et al., 2005c:83057**
Sharif, Mohammad Symmetries of the energy-momentum tensor of spherically symmetric Lorentzian manifolds. (English summary) **2005b:83030**
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Van Den Broeck, Chris *see* **Ashtekar, Abhay et al., 2005f:83050**
Yoon, Jong Hyuk New Hamiltonian formalism and quasilocal conservation equations of general relativity. (English summary) **2005k:83011**
Zaslavskii, O. B. *see* **Matyjasek, Jerzy, 2005f:83058**
Zecca, A. Static massless and time-dependent massive self-gravitating scalar field in spherically symmetric comoving system. (English summary) **2005h:83019**

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Alfaro, Jorge (*with* Morales Técotl, Hugo A.; Reyes, Marat; Urrutia, L. F.) Alternative approaches to Lorentz violation invariance in loop quantum gravity inspired models. (English summary) **2005h:83061**
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Ambjørn, Jan (*with* Dasgupta, Arundhati; Jurkiewicz, Jerzy Władysław; Loll, R.) A Lorentzian cure for Euclidean troubles. (English summary) **2005j:83032**
— (*with* Jurkiewicz, Jerzy Władysław; Loll, R.) 3D Lorentzian, dynamically triangulated quantum gravity. (English summary) **2005j:83033**
— (*with* Jurkiewicz, Jerzy Władysław; Loll, R.) Emergence of a 4D world from causal quantum gravity. (English summary) **2005k:83046**
Amelino-Camelia, Giovanni (*with* Smolin, Lee; Starodubtsev, Artem) Quantum symmetry, the cosmological constant and Planck-scale phenomenology. (English summary) **2005c:83022**
— (*with* Doplicher, Luisa) D-particle-inspired analysis of localization limits in quantum gravity. (English summary) **2005h:83062**
— (*with* Arzano, Michele; Procaccini, Andrea) Severe constraints on the loop-quantum-gravity energy-momentum dispersion relation from the black-hole area-entropy law. (English summary) **2005h:83063**
Anselmi, Damiano Finiteness of quantum gravity coupled with matter in three spacetime dimensions. (English summary) **2005d:83038**
— Renormalization of quantum gravity coupled with matter in three dimensions. (English summary) **2005d:83039**
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Ashtekar, Abhay Quantum geometry and its ramifications. (*see* 2005j:83002)
— (*with* Lewandowski, Jerzy) Background independent quantum gravity: a status report. (English summary) **2005g:83043**
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Barbero G., J. Fernando (*with* Mena Marugán, Guillermo A.; Villaseñor, Eduardo J. S.) Time uncertainty in quantum gravitational systems. (English summary) **2005d:83041**
Basini, Giuseppe (*with* Capozziello, Salvatore) Quantum cosmology from induced scalar-tensor theory of gravity and the role of conservation laws. (English summary) **2005f:83038**

Bastianelli, Fiorenzo (*with* Schubert, Christian) One loop photon-graviton mixing in an electromagnetic field. I. (English summary) **2005k:83047**
Benedetti, Riccardo About a quantum field theory for 3D gravity. (English summary) **2005g:83044**
de Berredo-Peixoto, Guilherme (*with* Shapiro, Ilya L.) Conformal quantum gravity with the Gauss-Bonnet term. (English summary) **2005h:83064**
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— (*with* Date, Ghanashyam) Consistency conditions for fundamentally discrete theories. (English summary) **2005d:83043**
— (*with* Date, Ghanashyam; Vandersloot, Kevin) Homogeneous loop quantum cosmology: the role of the spin connection. (English summary) **2005f:83039**
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— (*with* Lidsey, James E.; Mulryne, David J.; Singh, Parampreet; Tavakol, Reza) Inflationary cosmology and quantization ambiguities in semiclassical loop quantum gravity. (English summary) **2005h:83065**
— (*with* Maartens, Roy; Singh, Parampreet) Loop quantum gravity and the cyclic universe. (English summary) **2005i:83036**
— (*with* Morales Técotl, Hugo A.; Sahlmann, Hanno) Loop quantum gravity phenomenology and the issue of Lorentz invariance. (English summary) **2005m:83042**
— *see also* **Cartin, Daniel et al., 2005g:83046**
Bolen, Brett (*with* Bombelli, Luca; Corichi, Alejandro) Semiclassical states in quantum cosmology: Bianchi I coherent states. (English summary) **2005g:83045**
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Cohen, Marcus S. Clifford tetrads, null zig zags, and quantum gravity. (English summary) **2005g:83047**
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— *see also* **Bolen, Brett et al., 2005g:83045**
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Date, Ghanashyam (*with* Hossain, Golam Mortuza) Effective Hamiltonian for isotropic loop quantum cosmology. (English summary) **2005g:83048**
— (*with* Hossain, Golam Mortuza) Genericness of inflation in isotropic loop quantum cosmology. (English summary) **2005h:83069**
— (*with* Hossain, Golam Mortuza) Genericness of a big bounce in isotropic loop quantum cosmology. (English summary) **2005h:83070**
— *see also* **Bojowald, Martin et al., 2005d:83043** *and* **2005f:83039**
D'Eath, P. D. What local supersymmetry can do for quantum cosmology. (*see* **2005j:83002**)
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Dowker, Fay Topology change in quantum gravity. (*see* **2005j:83002**)
— (*with* Henson, Joe; Sorkin, Rafael D.) Quantum gravity phenomenology, Lorentz invariance and discreteness. (English summary) **2005d:83045**
Dubovskiĭ, S. L. Phases of massive gravity. (English summary) **2005h:83071**
Egawa, H. S. (*with* Horata, S.; Tsuda, Noritsugu; Yukawa, Tetsuyuki) Phase transition of 4D simplicial quantum gravity with $U(1)$ gauge field. (English summary)
Esposito, Giampiero (*with* Fucci, Guglielmo; Kamenshchik, A. Yu.; Kirsten, Klaus) Spectral asymptotics of Euclidean quantum gravity with diff-invariant boundary conditions. (English summary) **2005m:83044**
— *see also* **Bonanno, Alfio et al., 2005m:83043**
Fairbairn, Winston (*with* Rovelli, Carlo) Separable Hilbert space in loop quantum gravity. (English summary) **2005d:83046**
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— (*with* Porto, Rafael A.; Pullin, Jorge) Loss of quantum coherence from discrete quantum gravity. (English summary) **2005a:83039**
— (*with* Porto, Rafael A.; Pullin, Jorge) Fundamental decoherence from relational time in discrete quantum gravity: Galilean covariance. (English summary) **2005i:83039**
— (*with* Pullin, Jorge) Consistent discretization and loop quantum geometry. (English summary) **2005k:83049**
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Halliwell, Jonathan The interpretation of quantum cosmology and the problem of time. (*see* **2005j:83002**)
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Han, Tao (*with* Willenbrock, Scott) Scale of quantum gravity. (English summary)
Hartle, James B. The state of the universe. (*see* **2005j:83002**)
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— *see also* **Bojowald, Martin et al., 2005h:83065**
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Litim, Daniel F. Fixed points of quantum gravity. (English summary) **2005h:83076**
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— *see also* **Girelli, Florian et al., 2005j:83034**
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— *see also* **Ambjørn, Jan et al., 2005j:83032; 2005j:83033** *and* **2005k:83046**
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— *see also* **Alexander, Stephon et al., 2005i:83034**
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Mariz, T. (*with* Nascimento, J. R. S.; Passos, E.; Ribeiro, R. F.) Chern-Simons-like action induced radiatively in general relativity. (English summary)
Markopoulou, Fotini Planck-scale models of the universe.
— *see also* **Hawkins, Eli et al., 2005a:83041**
Marmo, Giuseppe *see* **Man'ko, Vladimir I. et al., 2005k:83054**
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Miković, A. Flat spacetime vacuum in loop quantum gravity. (English summary) **2005c:83024**
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— *see also* **Livine, Etera R.**, 2005d:83050 *and* **Conrady, Florian et al.**, 2005i:83037
Okołów, Andrzej (*with* Lewandowski, Jerzy) Automorphism covariant representations of the holonomy-flux $*$-algebra. (English summary) **2005k:83056**
— Hilbert space built over connections with a non-compact structure group. (English summary) **2005k:83057**
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— *see also* **Girelli, Florian et al.**, 2005j:83034 *and* **Livine, Etera R.**, 2005k:83053
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Parisi, Florencia *see* **Kozameh, Carlos N.**, 2005k:83051
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Patiño, Leonardo (*with* Quevedo, Hernando) Topological quantization of gravitational fields. (English summary) **2005m:83047**
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— *see also* **Collins, John C. et al.**, 2005h:83067
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— *see also* **Shao, D. et al.**, 2005m:83050
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— (*with* Shao, Liang[2]; Shao, Chang Gui; Noda, Hujio) Curvature excitation through quantum Wilson loops in four-derivative gravity. (English summary) **2005h:83077**
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— *see also* **Amelino-Camelia, Giovanni et al.**, 2005c:83022; **Freidel, Laurent**, 2005d:83047; **Magueijo, João**, 2005d:83051 *and* **Alexander, Stephon et al.**, 2005i:83034
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Alvarenga, F. G. (*with* Batista, A. B.; Fabris, J. C.) Does quantum cosmology predict a constant dilatonic field? (English summary)

Ambjørn, Jan (*with* Jurkiewicz, Jerzy Władysław; Loll, R.) Renormalization of 3d quantum gravity from matrix models. (English summary) **2005k:83036**
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Barbero G., J. Fernando (*with* Mena Marugán, Guillermo A.; Villaseñor, Eduardo J. S.) Particles and vacuum for perturbative and nonperturbative Einstein-Rosen gravity. (English summary) **2005h:83162**
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Bialas, P. (*with* Petersson, B.; Thorleifsson, G.) The weak-coupling limit of 3D simplicial quantum gravity. (English summary)
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Cognola, Guido (*with* Elizalde, Emilio; Nojiri, Shin'ichi; Odintsov, Sergei D.; Zerbini, Sergio) One-loop $f(R)$ gravity in de Sitter universe. (English summary) **2005j:81117**
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— (*with* Olsson, Martin E.) On thermalization in de Sitter space. (English summary) **2005a:83138**
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Gibbons, Gary W. Euclidean quantum gravity: the view from 2002. (*see* **2005j:83002**)
Gunzig, E. (*with* Saa, Alberto) Conformal quantum effects and the anisotropic singularities of scalar-tensor theories of gravity. (English summary)
Guzmán, W. (*with* Socorro, J.; Tkach, V. I.; Torres A., J.) Inflation from supersymmetric quantum cosmology. (English summary)
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Hartle, James B. Theories of everything and Hawking's wave function of the universe. (*see* **2005j:83002**)
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Koh, Seoktae (*with* Kim, Sang Pyo; Song, Doo Jong) Gravitational wave spectrum in inflation with nonclassical states. (English summary) **2005j:83154**
Kostov, Ivan K. (*with* Ponsot, Bénédicte; Serban, Didina) Boundary Liouville theory and 2D quantum gravity. (English summary) **2005f:83073**
Kouletsis, Ioannis (*with* Hájíček, Petr; Bičák, Jiří) Gauge-invariant Hamiltonian dynamics of cylindrical gravitational waves. (English summary) **2005a:83038**
Kowalski-Glikman, Jerzy (*with* Smolin, Lee) Triply special relativity. (English summary) **2005i:83005**
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Maran, Suresh K. Relating spin foams and canonical quantum gravity: $(n-1)+1$ formulation of nD spin foams. (English summary) **2005k:83038**
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Bjerrum-Bohr, N. E. J. (*with* Donoghue, John F.; Holstein, Barry R.) Erratum: "Quantum corrections to the Schwarzschild and Kerr metrics" [Phys. Rev. D (3) **68** (2003), no. 8, 084005, 16 pp. (electronic); MR2039391 (2004k:83052)].
Blas Achic, H. S. *see* **Accioly, Antonio, 2005b:83049**
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Donoghue, John F. (*with* Holstein, Barry R.; Garbrecht, Björn; Konstandin, Thomas) Erratum to: "Quantum corrections to the Reissner-Nordström and Kerr-Newman metrics" [Phys. Lett. B **529** (2002), no. 1-2, 132–142; MR1891765 (2003b:83043)].
— *see also* **Bjerrum-Bohr, N. E. J. et al.**
Du, Da Peng[2] (*with* Wang, Bin[2]; Su, Ru-Keng) Quasinormal modes in pure de Sitter spacetimes. (English summary) **2005h:83081**
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Li, Xiang[3] (*with* Shen, You-Gen) Probable ratio of the vacuum energy in a Schwarzschild-de Sitter space. (English summary) **2005a:83047**
Liu, Zhongzhu *see* **Bei, Xiaomin et al.**
Matyjasek, Jerzy Approximate stress-energy tensor of the massless spin-1/2 field in Schwarzschild spacetime. (English summary) **2005i:83047**
Mena Marugán, Guillermo A. *see* **Barbero G., J. Fernando et al., 2005d:83058**
Mur, V. D. *see* **Narozhnyĭ, N. B. et al., 2005c:83026**
Nandi, Kamal Kanti (*with* Zhang, Yuan-Zhong; Kumar, K. B. Vijaya) Semiclassical and quantum field theoretic bounds for traversable Lorentzian stringy wormholes. (English summary) **2005h:83083**
Narozhnyĭ, N. B. (*with* Fedotov, A. M.; Mur, V. D.; Belinskiĭ, V. A.) Two aspects of the Unruh problem. (English summary) **2005c:83026**
Pavlov, Yu. V. *see* **Grib, A. A.**
Popov, Arkadiĭ Aleksandrovich Analytical approximation for $\langle\varphi^2\rangle$ of a quantized scalar field in ultrastatic asymptotically flat spacetimes. (English summary) **2005h:83084**
Prokopec, Tomislav (*with* Woodard, Richard) Dynamics of superhorizon photons during inflation with vacuum polarization. (English summary) **2005a:83048**
Saaidi, Khaled *see* **Setare, Mohammad R.**
Schlicht, Sebastian Considerations on the Unruh effect: causality and regularization. (English summary) **2005g:83055**
Schützhold, Ralf *see* **Unruh, William G., 2005j:83046**
Setare, Mohammad R. Casimir stress for cylindrical shell in de Sitter space. (English summary) **2005c:83027**
— (*with* Saaidi, Khaled) Spin zero quantum relativistic particles in Einstein universe. (English summary)
Shen, You-Gen *see* **Li, Xiang[3], 2005a:83047**
Shi, Changsheng *see* **Bei, Xiaomin et al.**
Su, Ru-Keng *see* **Du, Da Peng[2] et al., 2005h:83081**
Tagirov, È. A. Effective space quantization in Friedmann-Robertson-Walker models. (English and Russian summaries) **2005a:83049**
Tanimoto, Masayuki Scalar fields on $\widetilde{\mathrm{SL}}(2,\mathbf{R})$ and $H^2\times\mathbf{R}$ geometric spacetimes and linear perturbations. (English summary) **2005j:83045**
Tsionenko, D. A. The Dirac-Kähler equation in non-Euclidean space-time. (Russian. English and Russian summaries) **2005e:83033**
Unruh, William G. (*with* Schützhold, Ralf) Universality of the Hawking effect. (English summary) **2005j:83046**
Villaseñor, Eduardo J. S. *see* **Barbero G., J. Fernando et al., 2005d:83058**
Vitiello, Giuseppe *see* **Iorio, Alfredo et al., 2005e:83032**
Viznyuk, Alexander V. *see* **Gorkavenko, Volodymyr M., 2005i:83046**
Wang, Bin[2] *see* **Du, Da Peng[2] et al., 2005h:83081**
Woodard, Richard *see* **Prokopec, Tomislav, 2005a:83048**
Yang, Xue Jun[1] (*with* Zhao, Zheng[1]) Quantum thermal effect of arbitrarily accelerating Kerr black hole. (English summary) **2005m:83052**
Zhang, Yuan-Zhong *see* **Nandi, Kamal Kanti et al., 2005h:83083**
Zhao, Zheng[1] *see* **Yang, Xue Jun[1], 2005m:83052**

Items with secondary classifications in 83C47

Anselmi, Damiano Finiteness of quantum gravity coupled with matter in three spacetime dimensions. (English summary) **2005d:83038**
— Renormalization of quantum gravity coupled with matter in three dimensions. (English summary) **2005d:83039**
Aurilia, Antonio (*with* Spallucci, Euro) Quantum fluctuations of a "constant" gauge field. (English summary) **2005f:81160**
— (*with* Spallucci, Euro) Quantum effects of a massive 3-form coupled to a Dirac field. (English summary) **2005g:81210**
Bahns, Dorothea (*with* Doplicher, S.; Fredenhagen, Klaus; Piacitelli, Gherardo) Ultraviolet finite quantum field theory on quantum spacetime. (English summary) **2005b:81207**
Barvinskiĭ, A. O. (*with* Gusev, Yu. V.; Mukhanov, V. F.; Nesterov, D. V.) Nonperturbative late time asymptotics for the heat kernel in gravity theory. (English summary) **2005d:81261**
de Berredo-Peixoto, Guilherme (*with* Gorbar, Eduard V.; Shapiro, Ilya L.) On the renormalization group for the interacting massive scalar field theory in curved space. (English summary) **2005d:81262**
Borgman, J. (*with* Ford, L. H.) Effects of quantum stress tensor fluctuations with compact extra dimensions. (English summary) **2005i:83100**
Capelas de Oliveira, E. *see* **da Rocha, R., 2005j:81121**
Conrady, Florian (*with* Doplicher, Luisa; Oeckl, Robert; Rovelli, Carlo; Testa, Massimo) Minkowski vacuum in background independent quantum gravity. (English summary) **2005i:83037**
Davies, Paul C. W. Quantum mechanics and the equivalence principle. (English summary) **2005d:81012**
Deser, S. (*with* Waldron, Andrew) Conformal invariance of partially massless higher spins. (English summary) **2005h:81165**
Doplicher, Luisa *see* **Conrady, Florian et al., 2005i:83037**
Doplicher, S. *see* **Bahns, Dorothea et al., 2005b:81207**
Fischer, Uwe R. Quasiparticle universes in Bose-Einstein condensates. (English summary)
Flachi, Antonino (*with* Knapman, Alan; Naylor, Wade; Sasaki, Misao) Zeta functions in brane world cosmology. (English summary) **2005m:83158**
Ford, L. H. *see* **Borgman, J., 2005i:83100**
Fredenhagen, Klaus *see* **Bahns, Dorothea et al., 2005b:81207**
Furtado, Claudio *see* **de M. Carvalho, Alexandre M. et al., 2005i:81112**
Giddings, Steven B. (*with* Lippert, Matthew) The information paradox and the locality bound. (English summary) **2005k:83076**
Gorbar, Eduard V. *see* **de Berredo-Peixoto, Guilherme et al., 2005d:81262**
Gottesman, Daniel (*with* Preskill, John) Comment on: "The black hole final state" [J. High Energy Phys. **2004**, no. 2, 008, 15 pp. (electronic); MR2046801 (2005b:83061)] by G. T. Horowitz and J. Maldacena. (English summary) **2005b:83059**
Guido, Daniele (*with* Longo, Roberto) A converse Hawking-Unruh effect and dS^2/CFT correspondence. (English summary) **2005b:81115**
Gusev, Yu. V. *see* **Barvinskiĭ, A. O. et al., 2005d:81261**
Haba, Zbigniew (*with* Kleinert, Hagen) Master and Langevin equations for interaction with electromagnetic and gravitational environments. (English summary) (*see* **2005c:81005**)
Havare, Ali (*with* Yetkin, Taylan; Korunur, Murat; Sogut, Kenan) Creation of spin-1/2 particles in de Sitter space-time. (English summary) **2005b:81116**
Hod, Shahar High-order corrections to the entropy and area of quantum black holes. (English summary) **2005b:83060**
Hollands, Stefan (*with* Wald, Robert M.) On the renormalization group in curved spacetime. (English summary) **2005d:81258**
— PCT theorem for the operator product expansion in curved spacetime. (English summary) **2005b:81117**
Horowitz, Gary T. (*with* Maldacena, Juan M.) The black hole final state. (English summary) **2005b:83061**
— *see also* **Gottesman, Daniel, 2005b:83059**
Hu, B. L. (*with* Roura, Albert; Verdaguer, Enric) Stability of semiclassical gravity solutions with respect to quantum metric fluctuations. (English summary) **2005h:83073**
Ishibashi, Akihiro (*with* Wald, Robert M.) Dynamics in non-globally-hyperbolic static spacetimes. III. Anti-de Sitter spacetime. (English summary) **2005j:83015**
Jun, Ding Bing *see* **Zhao, Ren et al., 2005a:83071**
Kleinert, Hagen *see* **Haba, Zbigniew, (2005c:81005)**
Knapman, Alan *see* **Flachi, Antonino et al., 2005m:83158**
Korunur, Murat *see* **Havare, Ali et al., 2005b:81116**
Krtouš, Pavel Sum-over-histories quantization of relativistic particle. (English summary) **2005b:81118**
Lin, Chi-Yong *see* **Wang, Bin[2] et al., 2005h:83042**
Lippert, Matthew *see* **Giddings, Steven B., 2005k:83076**
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Maldacena, Juan M. *see* **Gottesman, Daniel, 2005b:83059** *and* **Horowitz, Gary T., 2005b:83061**
Manvelyan, Ruben (*with* Rühl, Werner) The masses of gauge fields in higher spin field theory on the bulk of AdS_4. (English summary) **2005k:81190**
de M. Carvalho, Alexandre M. (*with* Furtado, Claudio; Pedrosa, I. A.) Scalar fields and exact invariants in a Friedmann-Robertson-Walker spacetime. (English summary) **2005i:81112**
Melnyk, Fabrice The Hawking effect for spin 1/2 fields. (English summary) **2005b:83064**
— The Hawking effect for a collapsing star in an initial state of KMS type. (English summary) **2005k:83088**
Molina Mendes, Carlos *see* **Wang, Bin[2] et al., 2005h:83042**
Mukhanov, V. F. *see* **Barvinskiĭ, A. O. et al., 2005d:81261**
Naylor, Wade *see* **Flachi, Antonino et al., 2005m:83158**
Nesterov, D. V. *see* **Barvinskiĭ, A. O. et al., 2005d:81261**

Oeckl, Robert *see* **Conrady, Florian et al., 2005i:83037**
Padmanabhan, T. Gravity and the thermodynamics of horizons. (English summary) **2005m:83075**
Pedrosa, I. A. *see* **de M. Carvalho, Alexandre M. et al., 2005i:81112**
Piacitelli, Gherardo *see* **Bahns, Dorothea et al., 2005b:81207**
Preskill, John *see* **Gottesman, Daniel, 2005b:83059**
Roberts, Mark D. Quantizing the line element field. (English summary) **2005d:83055**
da Rocha, R. (*with* Capelas de Oliveira, E.) The Casimir operator of SO(1, 2) and the Pöschl-Teller potential: an AdS approach. (English and Spanish summaries) **2005j:81121**
Roura, Albert *see* **Hu, B. L. et al., 2005h:83073**
Rovelli, Carlo *see* **Conrady, Florian et al., 2005i:83037**
Rühl, Werner *see* **Manvelyan, Ruben, 2005k:81190**
Sakamoto, Kenji Asymptotic states in two black hole moduli space. (English summary) **2005m:83078**
Sasaki, Misao *see* **Flachi, Antonino et al., 2005m:83158**
Schmid, Harald Bound state solutions of the Dirac equation in the extreme Kerr geometry. (English summary) **2005k:81194**
Seggev, Itai Dynamics in stationary, non-globally hyperbolic spacetimes. (English summary) **2005h:81249**
Shapiro, Ilya L. *see* **de Berredo-Peixoto, Guilherme et al., 2005d:81262**
Singh, Tejinder P. (*with* Vaz, Cenalo) The quantum gravitational black hole is neither black nor white. (English summary) **2005j:83069**
Sogut, Kenan *see* **Havare, Ali et al., 2005b:81116**
Solodukhin, S. N. Restoring unitarity in the Banados-Teitelboim-Zanelli black hole. (English summary) **2005k:83094**
Spallucci, Euro *see* **Aurilia, Antonio, 2005f:81160** *and* **2005g:81210**
Strominger, Andrew (*with* Thompson, David Mattoon) Quantum Bousso bound. (English summary) **2005j:83070**
Testa, Massimo *see* **Conrady, Florian et al., 2005i:83037**
Thompson, David Mattoon *see* **Strominger, Andrew, 2005j:83070**
Vaz, Cenalo *see* **Singh, Tejinder P., 2005j:83069**
Verdaguer, Enric *see* **Hu, B. L. et al., 2005h:83073**
Wald, Robert M. *see* **Hollands, Stefan, 2005d:81258** *and* **Ishibashi, Akihiro, 2005j:83015**
Waldron, Andrew *see* **Deser, S., 2005h:81165**
Wang, Bin[2] (*with* Lin, Chi-Yong; Molina Mendes, Carlos) Quasinormal behavior of massless scalar field perturbation in Reissner-Nordström anti-de Sitter spacetimes. (English summary) **2005h:83042**
Wu, Shuang-Qing (*with* Yan, Mu-Lin) Entropy of a Kerr-de Sitter black hole due to arbitrary spin fields. (English summary) **2005d:83085**
Yan, Mu-Lin *see* **Wu, Shuang-Qing, 2005d:83085**
Yetkin, Taylan *see* **Havare, Ali et al., 2005b:81116**
Yong, Guo *see* **Zhao, Ren et al., 2005a:83071**
Zaslavskii, O. B. Boulware state and semiclassical thermodynamics of black holes in a cavity. (English summary) **2005a:83070**
— Two-dimensional quantum-corrected black hole in a finite size cavity. (English summary) **2005e:83070**
Zhao, Ren (*with* Yong, Guo; Jun, Ding Bing) The entropy of a Kim black hole and the Nernst theorem. (English summary) **2005a:83071**

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Betschart, Gerold (*with* Clarkson, Chris A.) Scalar field and electromagnetic perturbations on locally rotationally symmetric spacetimes. (English summary) **2005h:83085**
— *see also* **Marklund, Mattias et al., 2005b:83051**
Bezerra, Valdir B. (*with* Khusnutdinov, Nail R.) Self-interaction of a charged particle in the Gott-Hiscock space-time. (English and Russian summaries) **2005i:83048**
Bolokhov, S. V. *see* **Vladimirov, Yu. S., 2005j:83049**
Castro, Carlos[1] Generalized p-forms electrodynamics in Clifford spaces. (English summary) **2005b:83050**
Chernitskiĭ, A. A. Induced gravitation as a nonlinear electrodynamics effect. (English summary)
Clarkson, Chris A. *see* **Betschart, Gerold, 2005h:83085**
Dariescu, Ciprian *see* **Dariescu, Marina-Aura, 2005m:83053**
Dariescu, Marina-Aura (*with* Dariescu, Ciprian) Scalar and electromagnetic configurations in $k = 1$ Friedmann-Robertson-Walker universes. (English summary) **2005m:83053**
Dunsby, Peter K. S. *see* **Marklund, Mattias et al., 2005b:83051**
Dymnikova, Irina Regular electrically charged vacuum structures with de Sitter centre in nonlinear electrodynamics coupled to general relativity. (English summary) **2005i:83049**
García-Reyes, Gonzalo (*with* González V., Guillermo A.) Electrovacuum static counterrotating relativistic dust disks. (English summary)
González V., Guillermo A. *see* **García-Reyes, Gonzalo**
Hehl, Friedrich W. *see* **Itin, Yakov, 2005d:83060**
Horwood, Joshua T. (*with* Wainwright, John) Asymptotic regimes of magnetic Bianchi cosmologies. (English summary) **2005d:83059**
Itin, Yakov (*with* Hehl, Friedrich W.) Is the Lorentz signature of the metric of spacetime electromagnetic in origin? (English summary) **2005d:83060**
Kerner, Richard Born-Infeld electrodynamics and its modern versions. **2005m:83054**
Khusnutdinov, Nail R. *see* **Bezerra, Valdir B., 2005i:83048**
Lakhtakia, Akhlesh (*with* Mackay, Tom G.) Towards gravitationally assisted negative refraction of light by vacuum. (English summary) **2005j:83047a**
— (*with* Mackay, Tom G.) Corrigendum: "Towards gravitationally assisted negative refraction of light by vacuum" [J. Phys. A. **37** (2004), no. 42, L505–L510; MR2098514 (2005j:83047a)]. **2005j:83047b**
— (*with* Mackay, Tom G.) Reply to: "Comment on: 'Towards gravitationally assisted negative refraction of light by vacuum'" [J. Phys. A **38** (2005), no. 11, 2543–2544; MR2132228 (2005m:83055a)] by M. W. McCall. (English summary) **2005m:83055b**
— *see also* **McCall, Martin W., 2005m:83055a**
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Lynden-Bell, Donald Relativistically spinning charged sphere. (English summary) **2005h:83086**
— Electromagnetic magic: the relativistically rotating disk. (English summary) **2005k:83063**
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Marklund, Mattias (*with* Dunsby, Peter K. S.; Betschart, Gerold; Servin, Martin; Tsagas, Christos G.) Charged multifluids in general relativity. (English summary) **2005b:83051**
Mashhoon, Bahram Vacuum electrodynamics of accelerated systems: nonlocal Maxwell's equations. (English summary) **2005a:83050**
McCall, Martin W. Comment on: "Towards gravitationally assisted negative refraction of light by vacuum" [J. Phys. A **37** (2004), no. 42, L505–L510; MR2098514 (2005j:83047a)] by A. Lakhtakia and T. G. Mackay. (English summary) **2005m:83055a**
— *see also* **Lakhtakia, Akhlesh, 2005m:83055b**
Mitskevich, Nikolai Vsevolodovich (*with* López-Benítez, Luis I.) On gravitoelectric and gravitomagnetic effects in general relativity. (English and Russian summaries) **2005j:83048**
Newman, Ezra Ted Maxwell fields and shear-free null geodesic congruences. (English summary) **2005e:83034**
Özdemir, F. (*with* Özdemir, Nese) Maxwell equations in the spinning cosmic string spacetimes. (English summary) **2005e:83035**
Özdemir, Nese *see* **Özdemir, F., 2005e:83035**
Ponce de Leon, Jaime Electromagnetic mass-models in general relativity reexamined. (English summary) **2005c:83028**
Ruggiero, Matteo Luca Gravito-electromagnetic Aharonov-Bohm effect: some rotation effects revised. (English summary) **2005k:83064**
Servin, Martin *see* **Marklund, Mattias et al., 2005b:83051**
Shen, Jian Qi The dual curvature tensors and dynamics of gravitomagnetic matter. (English summary) **2005e:83036**
Singh, Rama Shanker[2] (*with* Sinha, Brijesh Kumar) Classical string model of magnetic field lines in relativistic magnetohydrodynamics. (English summary) **2005h:83087**
Sinha, Brijesh Kumar *see* **Singh, Rama Shanker[2], 2005h:83087**
Teyssandier, Pierre Variation of the speed of light due to non-minimal coupling between electromagnetism and gravity. (English summary)
Tsagas, Christos G. *see* **Marklund, Mattias et al., 2005b:83051**
Vladimirov, Yu. S. (*with* Bolokhov, S. V.) On the classification of electromagnetic fields and reference frames in general relativity. (English and Russian summaries) **2005j:83049**
Wainwright, John *see* **Horwood, Joshua T., 2005d:83059**

Items with secondary classifications in 83C50

Ahsan, Zafar A differential geometric structure for the space-time manifold of general relativity. (English summary) **2005m:53146**
Alekseev, G. A. (*with* Griffiths, J. B.) Collision of plane gravitational and electromagnetic waves in a Minkowski background: solution of the characteristic initial value problem. (English summary) **2005i:83027**
Balakin, A. B. (*with* Kurbanova, Veronika; Zimdahl, Winfried) Precession of a particle with anomalous magnetic moment in electromagnetic and gravitational pp-wave fields. (English and Russian summaries) **2005i:83009**
Boillat, Guy (*with* Ruggeri, Tommaso) Energy momentum, wave velocities and characteristic shocks in Euler's variational equations with application to the Born-Infeld theory. (English summary) **2005h:83053**
Bronnikov, K. A. (*with* Chudayeva, E. N.; Shikin, G. N.) Magneto-dilatonic Bianchi-I cosmology: isotropization and singularity problems. (English summary) **2005b:83024**
Camara, C. S. (*with* de Garcia Maia, M. R.; Carvalho, J. C.; de Lima, J. Ademir Sales) Nonsingular FRW cosmology and nonlinear electrodynamics. (English summary) **2005e:83113**
Caponio, Erasmo Time-like solutions to the Lorentz force equation in time-dependent electromagnetic and gravitational fields. (English summary) **2005a:83012**
Carvalho, J. C. *see* **Camara, C. S. et al., 2005e:83113**
Casadio, Roberto (*with* Fabi, Sergio; Harms, Benjamin) Electromagnetic waves around dilatonic stars and naked singularities. (English summary) **2005h:83141**
Cayetano Rodríguez, J. (*with* Sancho de Salas, Juan B.) Newtonian limit of Kaluza-Klein theory. **2005k:83129**
Cherubini, Christian (*with* Ruffini, Remo; Vitagliano, Luca) On the electromagnetic field of a charged collapsing spherical shell in general relativity. (English summary) **2005a:83055**
Chudayeva, E. N. *see* **Bronnikov, K. A. et al., 2005b:83024**
Fabi, Sergio *see* **Casadio, Roberto et al., 2005h:83141**
Fayos, Francesc (*with* Senovilla, José M. M.; Torres, Ramón) Spherically symmetric models for charged stars and voids. I. Charge bound. (English summary) **2005c:83011**
Ferrando, Joan Josep (*with* Sáez, Juan Antonio) Aligned electric and magnetic Weyl fields. (English summary) **2005h:83034**
de Garcia Maia, M. R. *see* **Camara, C. S. et al., 2005e:83113**
Griffiths, J. B. *see* **Alekseev, G. A., 2005i:83027**
Harms, Benjamin *see* **Casadio, Roberto et al., 2005h:83141**
Kochan, Denis Grassmann electrodynamics and general relativity. (English summary) **2005i:58005**
Krtouš, Pavel (*with* Podolský, Jiří) Gravitational and electromagnetic fields near an anti-de Sitter-like infinity. (English summary) **2005e:83027**
Kurbanova, Veronika *see* **Balakin, A. B. et al., 2005i:83009**
de Lima, J. Ademir Sales *see* **Camara, C. S. et al., 2005e:83113**
Matyjasek, Jerzy Extremal limit of the regular charged black holes in nonlinear electrodynamics. (English summary) **2005h:83121**
Mirenghi, Elvira (*with* Tucci, Maria) Trajectories in Gödel-type space-times under the action of a vector field. (English summary) **2005a:58021**
Podolský, Jiří *see* **Krtouš, Pavel, 2005e:83027**
Robinson, David Clyde Generalized forms, connections, and gauge theories. (English summary) **2005b:53123**
Ruffini, Remo *see* **Cherubini, Christian et al., 2005a:83055**
Ruggeri, Tommaso *see* **Boillat, Guy, 2005h:83053**
Sáez, Juan Antonio *see* **Ferrando, Joan Josep, 2005h:83034**

Salim, J. M. On the equivalence between nonlinear electrodynamics with one and two potentials. (English summary) **2005f:78002**
Sancho de Salas, Juan B. *see* **Cayetano Rodríguez, J., 2005k:83129**
Senovilla, José M. M. *see* **Fayos, Francesc et al., 2005c:83011**
Shikin, G. N. *see* **Bronnikov, K. A. et al., 2005b:83024**
Torres, Ramón *see* **Fayos, Francesc et al., 2005c:83011**
Tucci, Maria *see* **Mirenghi, Elvira, 2005a:58021**
Vitagliano, Luca *see* **Cherubini, Christian et al., 2005a:83055**
Vollick, Dan N. Palatini approach to Born-Infeld-Einstein theory and a geometric description of electrodynamics. (English summary) **2005g:83013**
Zimdahl, Winfried *see* **Balakin, A. B. et al., 2005i:83009**

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Andersson, Nils *see* **Lockitch, Keith H. et al., 2005m:83056**
Bali, Raj (*with* Gokhroo, Anil) Spherically symmetric charged models for perfect fluid distributions in general relativity. (English summary)
Bruni, Marco *see* **Passamonti, Andrea et al., 2005j:83050**
Calogero, Simone (*with* Lee, Hayoung) The non-relativistic limit of the Nordström-Vlasov system. (English summary) **2005f:83044**
Das, Anadijiban *see* **DeBenedictis, A. et al., 2005f:83045**
DeBenedictis, A. (*with* Das, Anadijiban; Kloster, S.) The gravitating perfect fluid-scalar field equations: quintessence and tachyonic matter. (English summary) **2005f:83045**
Garcia de Andrade, L. C. Non-Riemannian vortex geometry of rotational viscous fluids and breaking of the acoustic Lorentz invariance. (English summary) **2005k:83065**
Gladush, Valentin D. The variational principle and effective action for a spherical dust shell. (English summary) **2005f:83046**
Gokhroo, Anil *see* **Bali, Raj**
Groot Nibbelink, Stefan *see* **Nyawelo, T. S. et al., 2005b:83053**
Gualtieri, Leonardo *see* **Passamonti, Andrea et al., 2005j:83050**
Harada, Tomohiro *see* **Iguchi, Hideo et al., 2005i:83050**
van Holten, J. W. *see* **Nyawelo, T. S. et al., 2005b:83053**
Iguchi, Hideo (*with* Harada, Tomohiro; Mena, Filipe C.) Spherically symmetric perfect fluid in area-radial coordinates. (English summary) **2005i:83050**
Ishak, Mustapha Perfect fluid models in noncomoving observational spherical coordinates. (English summary) **2005f:83047**
Karkowski, Janusz (*with* Malec, Edward) Binding energy of static perfect fluids. (English summary) **2005f:83048**
Karlovini, Max (*with* Samuelsson, Lars) Elastic stars in general relativity. I. Foundations and equilibrium models. (English summary) **2005g:83056**
— (*with* Samuelsson, Lars) Elastic stars in general relativity. III. Stiff ultrarigid exact solutions. (English summary) **2005g:83057**
— *see also* **Errata: "Elastic stars in general relativity. I. Foundations and equilibrium models"**
Kloster, S. *see* **DeBenedictis, A. et al., 2005f:83045**
Lee, Hayoung *see* **Calogero, Simone, 2005f:83044**
Lockitch, Keith H. (*with* Andersson, Nils; Watts, Anna L.) Regularizing the r-mode problem for nonbarotropic relativistic stars. (English summary) **2005m:83056**
Malec, Edward *see* **Karkowski, Janusz, 2005f:83048**
Martin, Damien (*with* Visser, Matt) Bounds on the interior geometry and pressure profile of static fluid spheres. (English summary) **2005b:83052**
— (*with* Visser, Matt) Algorithmic construction of static perfect fluid spheres. (English summary) **2005e:83037**
Mena, Filipe C. *see* **Iguchi, Hideo et al., 2005i:83050**
Morisawa, Yoshiyuki *see* **Nakao, Ken-ichi, 2005e:83038**
Nakao, Ken-ichi (*with* Morisawa, Yoshiyuki) High speed dynamics of collapsing cylindrical dust fluid. (English summary) **2005e:83038**
Nyawelo, T. S. (*with* van Holten, J. W.; Groot Nibbelink, Stefan) Relativistic fluid mechanics, Kähler manifolds, and supersymmetry. (English summary) **2005b:83053**
Pareja, M. J. Relativistic stars in differential rotation: bounds on the dragging rate and on the rotational energy. (English summary) **2005a:83051**
— Bounds on the dragging rate of slowly and differentially rotating relativistic stars. (English summary) **2005e:83039**
Passamonti, Andrea (*with* Bruni, Marco; Gualtieri, Leonardo; Sopuerta, Carlos F.) Coupling of radial and nonradial oscillations of relativistic stars: gauge-invariant formalism. (English summary) **2005j:83050**
Prikas, Athanasios Q-stars in anti de Sitter spacetime. (English summary) **2005g:83058**
Samuelsson, Lars *see* **Karlovini, Max, 2005g:83056**; **2005g:83057** *and* **Errata: "Elastic stars in general relativity. I. Foundations and equilibrium models"**
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Items listed otherwise than by author

Errata:
"Elastic stars in general relativity. I. Foundations and equilibrium models" Corrigendum: "Elastic stars in general relativity. I. Foundations and equilibrium models" [Classical Quantum Gravity **20** (2003), no. 16, 3613–3648; MR2001686 (2005g:83056)] by M. Karlovini and L. Samuelsson.

Items with secondary classifications in 83C55

Barnes, A. P. (*with* LeFloch, Philippe G.; Schmidt, B. G.; Stewart, J. M.) The Glimm scheme for perfect fluids on plane-symmetric Gowdy spacetimes. (English summary) **2005m:83012**
Betschart, Gerold *see* **Marklund, Mattias et al., 2005b:83051**
Bičák, Jiří (*with* Ledvinka, T.; Schmidt, B. G.; Žofka, M.) Static fluid cylinders and their fields: global solutions. (English summary) **2005j:83014**
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Fay, Stéphane Isotropization of Bianchi class A models with a minimally coupled scalar field and a perfect fluid. (English summary) **2005b:83020**
Fayos, Francesc (*with* Senovilla, José M. M.; Torres, Ramón) Spherically symmetric models for charged stars and voids. I. Charge bound. (English summary) **2005c:83011**
— (*with* Torres, Ramón) Spherically symmetric models for stars and voids. II. Constraints on the radial pressures. (English summary) **2005c:83012**
Font, José A. Numerical hydrodynamics in general relativity. (English summary) **2005a:83001**
Giambò, Roberto (*with* Giannoni, Fabio; Magli, Giulio; Piccione, Paolo) Naked singularities formation in the gravitational collapse of barotropic spherical fluids. (English summary) **2005f:83068**
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Goswami, Rituparno (*with* Joshi, Pankaj S.) Gravitational collapse of an isentropic perfect fluid with a linear equation of state. (English summary) **2005e:83061**
Gravanis, Elias (*with* Willison, Steven) Intersecting hypersurfaces in dimensionally continued topological density gravitation. (English summary) **2005h:83145**
Herrera, L. (*with* Le Denmat, G.; Santos, N. O.; Wang, An Zhong) Shear-free radiating collapse and conformal flatness. (English summary) **2005g:83089**
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Källberg, Andreas (*with* Brodin, Gert; Bradley, Michael) Nonlinear coupled Alfvén and gravitational waves. (English summary)
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LeFloch, Philippe G. *see* **Barnes, A. P. et al., 2005m:83012**
Magli, Giulio *see* **Giambò, Roberto et al., 2005f:83068**
Marklund, Mattias (*with* Dunsby, Peter K. S.; Betschart, Gerold; Servin, Martin; Tsagas, Christos G.) Charged multifluids in general relativity. (English summary) **2005b:83051**
Mielke, Eckehard W. *see* **Schunck, Franz E., 2005b:83144**
Negi, P. S. Hydrostatic equilibrium of insular, static, spherically symmetric, perfect fluid solutions in general relativity. (English summary) **2005g:83021**
Nolan, Brien C. (*with* Nolan, Louise V.) On isotropic cylindrically symmetric stellar models. (English summary) **2005d:83018**
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— (*with* Noutchegueme, N.; Rendall, Alan D.) Existence of initial data satisfying the constraints for the spherically symmetric Einstein-Vlasov-Maxwell system. (English summary) **2005e:83024**
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Prikas, Athanasios Q stars in extra dimensions. (English summary)
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Schunck, Franz E. (*with* Mielke, Eckehard W.) General relativistic boson stars. (English summary) **2005b:83144**
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Van Den Broeck, Chris The gravitational wave spectrum of non-axisymmetric, freely precessing neutron stars. (English summary) **2005k:83008**
Vu, Khai (*with* Carminati, John) Algebraically special coplanar shear-free perfect fluids in general relativity. (English summary) **2005m:83032**
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Wang, An Zhong *see* **Herrera, L. et al., 2005g:83089**
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Aiello, Matias (*with* Ferraro, Rafael; Giribet, Gastón E.) Exact solutions of Lovelock-Born-Infeld black holes. (English summary) **2005i:83051**
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Alcubierre, Miguel (*with* González, José Antonio; Salgado, Marcelo) Dynamical evolution of unstable self-gravitating scalar solitons. (English summary) **2005h:83089**
Aliev, A. N. (*with* Frolov, Valery P.) Five-dimensional rotating black hole in a uniform magnetic field: the gyromagnetic ratio. (English summary) **2005d:83061**

Allen, Elspeth W. (*with* Buckmiller, Elizabeth; Burko, Lior M.; Price, Richard H.) Radiation tails and boundary conditions for black hole evolutions. (English summary) **2005h:83090**
Alvarenga, F. G. (*with* Batista, A. B.; Fabris, J. C.; Marques, G. T.) Zero surface gravity black holes and the failure of semiclassical analysis. (English summary) **2005h:83091**
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Andrianopoli, Laura (*with* D'Auria, Riccardo) Extremal black holes in supergravity and the Bekenstein-Hawking entropy. (English summary) **2005c:83029**
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Baumgarte, Thomas W. *see* **Yo, Hwei-Jang et al., 2005h:83135**
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Bena, Iosif (*with* Kraus, Per) Three charge supertubes and black hole hair. (English summary) **2005h:83094**
— Splitting hairs of the three charge black hole. (English summary) **2005h:83093**
Berti, Emanuele (*with* Cavaglià, Marco; Gualtieri, Leonardo) Gravitational energy loss in high energy particle collisions: ultrarelativistic plunge into a multidimensional black hole. (English summary)
— (*with* Cardoso, Vitor; Lemos, José P. S.) Quasinormal modes and classical wave propagation in analogue black holes. (English summary) **2005i:83054**
— *see also* **Cardoso, Vitor et al., 2005m:83059**
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Bini, Donato (*with* Cherubini, Christian) Algebraically special frequencies of NUT black holes. (English summary) **2005g:83059**
Bishop, Nigel T. (*with* Beyer, Florian; Koppitz, Michael) Black hole initial data from a nonconformal decomposition. (English summary) **2005h:83095**
Bousso, Raphael Adventures in de Sitter space. (*see* **2005j:83002**)
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— Bound states and the Bekenstein bound. (English summary) **2005c:83031**
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Buckmiller, Elizabeth *see* **Allen, Elspeth W. et al., 2005h:83090**
Burinskiĭ, A. Ya. Axial stringy system of the Kerr spinning particle. (English and Russian summaries)
Burko, Lior M. (*with* Khanna, Gaurav) Universality of massive scalar field late-time tails in black-hole spacetimes. (English summary)
— *see also* **Allen, Elspeth W. et al., 2005h:83090**
Cadoni, Mariano Black hole fragmentation and holography. (English summary) **2005d:83063**
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— (*with* Pang, Da-Wei; Wang, An Zhong) Born-Infeld black holes in (A)dS spaces. (English summary) **2005i:83057**
Calabrese, Gioel (*with* Neilsen, David W.) Spherical excision for moving black holes and summation by parts for axisymmetric systems. (English summary) **2005d:83064**
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Cardoso, Vitor (*with* Natário, José; Schiappa, Ricardo) Asymptotic quasinormal frequencies for black holes in nonasymptotically flat space-times. (English summary) **2005g:83060**
— (*with* Lemos, José P. S.; Yoshida, Shijun) Quasinormal modes of Schwarzschild black holes in four and higher dimensions. (English summary) **2005e:83042**
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— (*with* Dias, Óscar J. C.) Small Kerr-anti-de Sitter black holes are unstable. (English summary) **2005i:83058**
— Note on the resonant frequencies of rapidly rotating black holes. (English summary) **2005j:83053**
— (*with* Berti, Emanuele; Cavaglià, Marco) What we (don't) know about black-hole formation in high-energy collisions. (English summary) **2005m:83059**
— *see also* **Berti, Emanuele et al., 2005i:83054**
Carr, Bernard Primordial black holes. (*see* **2005j:83002**)
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— *see also* **Cardoso, Vitor et al., 2005m:83059** *and* **Berti, Emanuele et al.**
Caveny, Scott A. (*with* Anderson, Matthew; Matzner, Richard A.) Tracking black holes in numerical relativity. (English summary) **2005f:83052**
Chamblin, Andrew (*with* Erlich, Joshua) Gravitation and the second law of thermodynamics. (English summary) **2005k:83067**
— (*with* Erlich, Joshua) Holographic Weyl entropy bounds. (English summary) **2005k:83068**
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Chang, Jia-Feng (*with* Shen, You-Gen) Neutrino quasinormal modes of a Kerr-Newman-de Sitter black hole. (English summary) **2005k:83069**
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Chen, Songbai (*with* Jing, Jiliang) Dirac quasinormal modes of the Garfinkle-Horowitz-Strominger dilaton black-hole spacetime. (English summary) **2005j:83054**
— (*with* Jing, Jiliang) Asymptotic quasinormal modes of a coupled scalar field in the Gibbons-Maeda dilaton spacetime. (English summary) **2005m:83060**
Cherubini, Christian (*with* Ruffini, Remo; Vitagliano, Luca) On the electromagnetic field of a charged collapsing spherical shell in general relativity. (English summary) **2005a:83055**
— *see also* **Bini, Donato, 2005g:83059**
Chicone, Carmen (*with* Mashhoon, Bahram) Tidal dynamics of relativistic flows near black holes. (English summary) **2005m:83061**
Cho, Hing Tong *see* **Kao, J.-K., 2005k:83083**
Choudhury, T. Roy (*with* Padmanabhan, T.) Quasinormal modes in Schwarzschild-de Sitter spacetime: a simple derivation of the level spacing of the frequencies. (English summary)
Chu, Chong-Sun *see* **Chang, Darwin et al., 2005d:83066**
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Clunan, Tim (*with* Ross, Simon F.; Smith, Douglas J.) On Gauss-Bonnet black hole entropy. (English summary) **2005g:83062**
Collins, Nathan A. (*with* Hughes, Scott A.) Towards a formalism for mapping the spacetimes of massive compact objects: bumpy black holes and their orbits. (English summary) **2005d:83067**
Contopoulos, G. (*with* Harsoula, M.) Chaos in the case of two fixed black holes. (English summary) **2005h:83099**
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— *see also* **Hannam, Mark D., 2005m:83064**
Cook, James N. *see* **Yo, Hwei-Jang et al., 2005h:83135**
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Crisóstomo, Juan (*with* Lepe, Samuel; Saavedra, Joel) Quasinormal modes of the extremal BTZ black hole. (English summary) **2005g:83063**
— (*with* del Campo, Sergio; Saavedra, Joel) Hamiltonian treatment of collapsing thin shells in Lanczos-Lovelock theories. (English summary) **2005h:83101**
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Cruz, Norman (*with* Lepe, Samuel) On the thermal description of the BTZ black holes. (English summary) **2005b:83055**
— (*with* Olivares, Marco; Villanueva, José R.) The geodesic structure of the Schwarzschild anti-de Sitter black hole. (English summary) **2005k:83070**
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Czuchry, Ewa (*with* Jezierski, Jacek; Kijowski, Jerzy) Dynamics of a gravitational field within a wave front and thermodynamics of black holes. (English summary) **2005k:83071**
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Damour, Thibault The entropy of black holes: a primer. (English summary) **2005d:83068**
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— (*with* Shankaranarayanan, S.) High-frequency quasi-normal modes for black holes with generic singularities. (English summary) **2005k:83072**
— *see also* **Cavaglià, Marco, 2005d:83065**; **Bhaduri, Rajat K. et al., 2005e:83040** *and* **Akbar, Mohammad Mainul, 2005f:83049**
Das, Tapas K. Analogue Hawking radiation from astrophysical black-hole accretion. (English summary)
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D'Eath, P. D. *see* **Farley, A. N. St. J., 2005g:83065**
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Dias, Óscar J. C. (*with* Lemos, José P. S.) Pair creation of de Sitter black holes on a cosmic string background. (English summary) **2005d:83069**
— (*with* Lemos, José P. S.) Pair creation of higher dimensional black holes on a de Sitter background. (English summary)
— *see also* **Cardoso, Vitor et al., 2005h:83097** *and* **2005i:83058**
van Dongen, Jeroen (*with* de Haro, Sebastian) On black hole complementarity. (English summary) **2005j:83057**
Dotti, Gustavo (*with* Gleiser, Reinaldo J.) Gravitational instability of Einstein-Gauss-Bonnet black holes under tensor mode perturbations. (English summary) **2005i:83062**
Drasco, Steve (*with* Hughes, Scott A.) Rotating black hole orbit functionals in the frequency domain. (English summary) **2005e:83044**
Düchting, Norbert Supermassive black holes from primordial black hole seeds. (English summary)
Dymnikova, Irina From a vacuum nonsingular black hole to a variable cosmological constant. (English summary)
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Farhangkhah, N. *see* **Dehghani, M. H., 2005k:83073**
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Fernando, Sharmanthie (*with* Arnold, Keith) Scalar perturbations of charged dilaton black holes. (English summary) **2005b:83057**
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Fidkowski, Lukasz (*with* Hubeny, Veronika E.; Kleban, Matthew; Shenker, Stephen) The black hole singularity in AdS/CFT. (English summary) **2005g:83066**
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Friedman, John L. (*with* Uryū, Kōji; Shibata, Masaru[1]) Erratum: "Thermodynamics of binary black holes and neutron stars" [Phys. Rev. D (3) **65** (2002), no. 6, 064035, 20 pp.; MR1918465 (2003d:83061)]. **Frolov, Valery P.** *see* **Aliev, A. N., 2005d:83061** *and* **Barrabès, Claude et al., 2005m:83058**
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— (*with* Porto, Rafael A.; Pullin, Jorge) Realistic clocks, universal decoherence, and the black hole information paradox. (English summary) **2005h:83104**
Gao, Chang Jun Arbitrary-dimensional Schwarzschild-FRW black holes. (English summary) **2005k:83074a**
— Corrigendum: "Arbitrary-dimensional Schwarzschild-FRW black holes" [Classical Quantum Gravity **21** (2004), no. 21, 4805–4810; MR2107325 (2005k:83074a)]. **2005k:83074b**
— (*with* Zhang, Shuang Nan) Dilaton black holes in the de Sitter or anti-de Sitter universe. (English summary) **2005i:83063**
Gao, Sijie (*with* Lemos, José P. S.) The covariant entropy bound in gravitational collapse. (English summary) **2005c:83033**
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Gao, Yi-Hong *see* **Chen, Hong-Zhi et al., 2005h:83098**
Ge, Xian-Hui (*with* Shen, You-Gen) Can quantum information be cloned in Kerr black holes? (English summary) **2005b:83058**
— (*with* Shen, You-Gen) Teleportation in the background of Schwarzschild space-time. (English summary) **2005h:83106**
— (*with* Shen, You-Gen) Reconsidering the black hole final state in Dirac fields. (English summary) **2005j:83058**
Ghosh, Amit[2] (*with* Mitra, Parthasarathi) An improved estimate of black hole entropy in the quantum geometry approach. (English summary) **2005m:83063**
— (*with* Mitra, Parthasarathi) Log correction to the black hole area law. (English summary) **2005i:83064**
Ghosh, S. G. *see* **Dawood, A. K., 2005j:83056**
Ghosh, Tanwi Thermodynamics of the rotating dilaton black hole. (English summary) **2005j:83059**
Giacomini, Alex Classical Liouville theory and the microscopic interpretation of black hole entropy. (English summary) **2005c:83034**
— Poisson algebra of diffeomorphism generators in a spacetime containing a bifurcation. (English summary) **2005j:83060**
Gibbons, Gary W. (*with* Perry, Malcolm J.; Pope, Christopher N.) The first law of thermodynamics for Kerr-anti-de Sitter black holes. (English summary) **2005k:83075**
Giddings, Steven B. Black holes at accelerators. (*see* **2005j:83002**)
— (*with* Lippert, Matthew) The information paradox and the locality bound. (English summary) **2005k:83076**
— (*with* Rychkov, Vyacheslav S.) Black holes from colliding wavepackets. (English summary) **2005i:83065**
Giribet, Gastón E. *see* **Aiello, Matías et al., 2005i:83051**
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Gorbonos, Dan (*with* Kol, Barak) A dialogue of multipoles: matched asymptotic expansion for caged black holes. (English summary) **2005c:83035**
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Gottesman, Daniel (*with* Preskill, John) Comment on: "The black hole final state" [J. High Energy Phys. **2004**, no. 2, 008, 15 pp. (electronic); MR2046801 (2005b:83061)] by G. T. Horowitz and J. Maldacena. (English summary) **2005b:83059**
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Gutowski, Jan B. (*with* Reall, Harvey S.) Supersymmetric AdS_5 black holes. (English summary) **2005d:83071**
— (*with* Reall, Harvey S.) General supersymmetric AdS_5 black holes. (English summary) **2005f:83054**
— Uniqueness of five-dimensional supersymmetric black holes. (English summary) **2005j:83061**
Häfner, Dietrich (*with* Nicolas, Jean-Philippe) Scattering of massless Dirac fields by a Kerr black hole. (English summary) **2005h:83108**
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Harmark, Troels (*with* Obers, Niels A.) New phase diagram for black holes and strings on cylinders. (English summary) **2005c:83036**
— (*with* Obers, Niels A.) Phase structure of black holes and strings on cylinders. (English summary) **2005a:83059**
— Small black holes on cylinders. (English summary) **2005i:83066**
de Haro, Sebastian *see* **van Dongen, Jeroen, 2005j:83057**
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Hartnoll, Sean A. Casimir effect and thermodynamics of horizon instabilities. (English summary) **2005k:83078**
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— Kerr black holes in horizon-generating form. (English summary) **2005i:83067**
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Hod, Shahar High-order corrections to the entropy and area of quantum black holes. (English summary) **2005b:83060**
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— (*with* Reall, Harvey S.) How hairy can a black ring be? (English summary) **2005k:83079**
— *see also* **Gottesman, Daniel, 2005b:83059**
Horvath, J. E. *see* **Custódio, P. S.**
Hu, Shuang-Qi (*with* Zhao, Ren) Uncertainty relation and black hole entropy of toroidal spacetime. (English summary) **2005g:83067**
— *see also* **Zhao, Ren, 2005g:83078**
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Ishibashi, Akihiro (*with* Kodama, Hideo) Stability of higher-dimensional Schwarzschild black holes. (English summary) **2005c:83037**
— *see also* **Kodama, Hideo, 2005a:83060**
Ishii, Masaki (*with* Shibata, Masaru[1]; Mino, Yasushi) Black hole tidal problem in the Fermi normal coordinates. (English summary) **2005k:83081**
Israel, Werner Black hole uniqueness and the inner horizon stability problem. (*see* **2005j:83002**)

Jaranowski, Piotr *see* **Faye, Guillaume et al., 2005f:83053**
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Jing, Jiliang Dirac quasinormal modes of the Reissner-Nordström de Sitter black hole. (English summary)
— *see also* **Chen, Songbai, 2005j:83054** *and* **2005m:83060**
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Jun, Ding Bing *see* **Zhao, Ren et al., 2005a:83071**
Jung, Eylee (*with* Park, DaeKil) Effect of scalar mass in the absorption and emission spectra of Schwarzschild black hole. (English summary) **2005b:83062**
— (*with* Park, DaeKil) Absorption and emission spectra of a higher-dimensional Reissner-Nordström black hole. (English summary) **2005m:83065**
— (*with* Kim, Sung Hoon; Park, DaeKil) Condition for superradiance in higher-dimensional rotating black holes. (English summary) **2005k:83082**
— (*with* Kim, Sung Hoon; Park, DaeKil) Condition for the superradiance modes in higher-dimensional rotating black holes with multiple angular momentum parameters. (English summary) **2005m:83066**
Kang, Gungwon (*with* Koga, Jun-ichirou; Park, Mu-In) Near-horizon conformal symmetry and black hole entropy in any dimension. (English summary) **2005h:83112**
Kao, J.-K. (*with* Cho, Hing Tong) The onset of chaotic motion of a spinning particle around the Schwarzchild black hole. (English summary) [The onset of chaotic motion of a spinning particle around the Schwarzschild black hole] **2005k:83083**
Karas, Vladimír (*with* Huré, J.-M.; Semerák, O.) Gravitating discs around black holes. (English summary) **2005f:83055**
Karasik, D. (*with* Sahabandu, C.; Suranyi, P.; Wijewardhana, L. C. Rohana) Analytic approximation to 5 dimensional black holes with one compact dimension. (English summary) **2005m:83067**
Ke, Ke (*with* Li, Miao[1]) Cardy-Verlinde formula and holographic dark energy. (English summary) **2005i:83068**
Kephart, Thomas W. (*with* Ng, Y. Jack) Black holes, mergers and the entropy budget of the Universe. (English summary) **2005j:83065**
Khanna, Gaurav *see* **Burko, Lior M.**
Khovanskaya, O. S. Black holes in higher curvature gravity. (English and Russian summaries)
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— (*with* Kunz, Jutta) Rotating dilaton black holes with hair. (English summary) **2005d:83074**
— (*with* Kunz, Jutta; Navarro-Lérida, Francisco) Stationary black holes with static and counterrotating horizons. (English summary) **2005d:83075**
Klein, Christian Binary black hole spacetimes with a helical Killing vector. (English summary) **2005i:83069**
Klemm, Dietmar *see* **Behrndt, Klaus, 2005j:83051**
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— *see also* **Ishibashi, Akihiro, 2005c:83037**
Koga, Jun-ichirou *see* **Kang, Gungwon et al., 2005h:83112**
Kol, Barak (*with* Sorkin, Evgeny; Piran, Tsvi) Caged black holes: black holes in compactified spacetimes. I. Theory. (English summary) **2005e:83046**
— *see also* **Gorbonos, Dan, 2005c:83035** *and* **Sorkin, Evgeny et al., 2005e:83047**
Konoplya, Roman A. Gravitational quasinormal radiation of higher-dimensional black holes. (English summary) **2005a:83061**
— (*with* Zhidenko, A. V.) High overtones of Schwarzschild-de-Sitter quasinormal spectrum. (English summary) **2005g:83070**
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Kuchiev, M. Yu. Reflection from black holes and space-time topology. (English summary) **2005a:83062**
— (*with* Flambaum, V. V.) Scattering of scalar particles by a black hole. (English summary) **2005h:83114**
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Lau, Stephen R. Rapid evaluation of radiation boundary kernels for time-domain wave propagation on black holes: implementation and numerical tests. (English summary) **2005k:83085**
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Lepe, Samuel (*with* Saavedra, Joel) Quasinormal modes, superradiance and area spectrum for $2+1$ acoustic black holes. (English summary) **2005m:83070**
— *see also* **Cruz, Norman, 2005b:83055** *and* **Crisóstomo, Juan et al., 2005g:83063**
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Li, Xiang[3] (*with* Shen, You-Gen) Gravitational thermodynamics of a Vaidya black hole. (English summary) **2005d:83076**
— (*with* Shen, You-Gen) About the generalized uncertainty principle. (English summary)
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Lyu, Yan (*with* Gui, Yuan-Xing) Dirac equation and its solution around Schwarzschild-de Sitter black hole. (English summary) **2005h:83118**
— (*with* Gui, Yuan-Xing) Scattering of Dirac waves off Schwarzschild-de Sitter black hole. (English summary) **2005h:83119**
Maassen van den Brink, Alec WKB analysis of the Regge-Wheeler equation down in the frequency plane. (English summary) **2005a:83063**
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Mahajan, Ashutosh (*with* Goswami, Rituparno; Joshi, Pankaj S.) Gravitational collapse from smooth initial data with vanishing radial pressure. (English summary) **2005i:83071**
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— (*with* Minic, Djordje; Ross, Simon F.) Notes on spacetime thermodynamics and the observer dependence of entropy. (English summary) **2005d:83077**
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Mathur, Samir D. What is inside a black hole? (English and French summaries) **2005k:83087**
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Matyjasek, Jerzy (*with* Zaslavskii, O. B.) Extremal limit for charged and rotating $2+1$-dimensional black holes and Bertotti-Robinson geometry. (English summary) **2005f:83058**
— (*with* Trynіecki, Dariusz) Charged black holes in quadratic gravity. (English summary) **2005e:83050**
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Matzner, Richard A. *see* **Caveny, Scott A. et al., 2005f:83052**
McFadden, Paul L. (*with* Turok, Neil) Effective theory approach to brane world black holes. (English summary) **2005m:83073**
Medved, A. J. M. (*with* Martin, Damien; Visser, Matt) Dirty black holes: quasinormal modes for 'squeezed' horizons. (English summary) **2005b:83063**
— (*with* Martin, Damien; Visser, Matt) Dirty black holes: spacetime geometry and near-horizon symmetries. (English summary) **2005f:83059**
— (*with* Martin, Damien; Visser, Matt) Dirty black holes: symmetries at stationary nonstatic horizons. (English summary) **2005i:83073**
— (*with* Vagenas, Elias C.) When conceptual worlds collide: the generalized uncertainty principle and the Bekenstein-Hawking entropy. (English summary) **2005i:83072**
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Mi, Li-qin Matter entropy and entropy of de Sitter universe. (English summary)

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Moderski, Rafał (*with* Rogatko, Marek) Reissner-Nordström black holes and thick domain walls. (English summary) **2005d:83078**
Molina Mendes, Carlos (*with* Giugno, D.; Abdalla, Elcio; Saa, Alberto) Field propagation in de Sitter black holes. (English summary) **2005e:83051**
Morisawa, Yoshiyuki (*with* Ida, Daisuke) Boundary value problem for five-dimensional stationary rotating black holes. (English summary) **2005d:83079**
— (*with* Ida, Daisuke) Scalar field perturbation on six-dimensional ultraspinning black holes. (English summary) **2005k:83089**
Motl, Luboš (*with* Neitzke, Andrew) Asymptotic black hole quasinormal frequencies. (English summary) **2005a:83064**
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Nakamura, Kouji Black hole in relativity and astrophysics. (Japanese)
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Padmanabhan, T. Topological interpretation of the horizon temperature. (English summary) **2005a:83065**
— Entropy of static spacetimes and microscopic density of states. (English summary) **2005j:83067**
— Gravity as elasticity of spacetime: a paradigm to understand horizon thermodynamics and cosmological constant. (English summary) **2005i:83076**
— Entropy of horizons, complex paths and quantum tunnelling. (English summary) **2005g:83072**
— Gravity and the thermodynamics of horizons. (English summary) **2005m:83075**
— *see also* **Choudhury, T. Roy**
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Pantoja, Nelson (*with* Rago, H.; Rodríguez, R. O.) Curvature singularity of the distributional Bañados, Teitelboim, and Zanelli black hole geometry. (English summary) **2005c:83039**
Parikh, Maulik A secret tunnel through the horizon. (English summary) **2005m:83076**
— A secret tunnel through the horizon. (English summary)
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Peres, Asher Quantum information and general relativity. (English summary) **2005h:83123**
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Podolský, Jiří (*with* Ortaggio, Marcello; Krtouš, Pavel) Radiation from accelerated black holes in an anti-de Sitter universe. (English summary) **2005c:83041**
Poisson, Eric Retarded coordinates based at a world line and the motion of a small black hole in an external universe. (English summary) **2005g:83073**
— Absorption of mass and angular momentum by a black hole: time-domain formalisms for gravitational perturbations, and the small-hole or slow-motion approximation. (English summary) **2005k:83090**
— Metric of a tidally distorted nonrotating black hole. (English summary) **2005m:83077**
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Pope, Christopher N. *see* **Cvetič, Mirjam et al., 2005i:83061** *and* **Gibbons, Gary W. et al., 2005k:83075**
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— Erratum: "Higher dimensional black holes and supersymmetry" [Phys. Rev. D (3) **68** (2003), no. 2, 024024, 14 pp.; MR2033796 (2005d:83082)]. **2005j:83068**
— *see also* **Gutowski, Jan B., 2005d:83071; 2005f:83054** *and* **Horowitz, Gary T., 2005k:83079**
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Ross, Simon F. Black hole pair creation. (*see* **2005j:83002**)
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— (*with* Shen, You-Gen) Quasinormal modes in Schwarzschild black holes due to arbitrary spin fields. (English summary) **2005m:83081**
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— (*with* Vaz, Cenalo) The quantum gravitational black hole is neither black nor white. (English summary)
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Ward, B. F. L. Massive elementary particles and black holes. (English summary) **2005j:83071**
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— (*with* Zhao, Zheng[1]) Dirac quasinormal modes in Reissner-Nordström spacetimes. (English summary) **2005e:83056**
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Yo, Hwei-Jang (*with* Cook, James N.; Shapiro, Stuart L.; Baumgarte, Thomas W.) Quasi-equilibrium binary black hole initial data for dynamical evolutions. (English summary) **2005h:83135**
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— (*with* Nambu, Yasusada) Black ring formation in particle systems. (English summary) **2005i:83080**
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— (*with* Zhang, Sheng Li[2]) Dilatonic black hole entropy without brick walls. (English summary)
— (*with* Wu, Yueqin[1]; Zhang, Sheng Li[2]) Quantum statistical entropy of d-dimensional Horowitz-Strominger black hole. (English summary) **2005f:83065**
— (*with* Zhang, Li Chun) Statistical entropy of a rotating higher-dimensional black hole. (English summary) **2005b:83069**
— (*with* Hu, Shuang-Qi) Reissner-Nordström black-hole entropy without brick walls. (English summary) **2005g:83078**
— (*with* Zhang, Sheng Li[2]) Statistical entropy of the A torus-like black hole. (English summary) **2005i:83081**
— *see also* **Hu, Shuang-Qi, 2005g:83067**
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Alvarenga, F. G. (*with* Batista, A. B.; Fabris, J. C.; Marques, G. T.) Quantum modes around a scalar-tensor black hole: breakdown of the normalization conditions. (English and Russian summaries)
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Chen, Yujun Quantum Liouville theory and BTZ black hole entropy. (English summary) **2005h:81242**
Cho, Hing Tong (*with* Lin, Y.-C.) WKB analysis of the scattering of massive Dirac fields in Schwarzschild black-hole spacetimes. (English summary) **2005m:81078**
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Czuchry, Ewa *see* **Jezierski, Jacek et al., 2005m:83018**
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van Dam, H. *see* **Ng, Y. Jack, 2005j:83040**
Danielsson, Ulf H. A Matrix model black hole. II. (English summary) **2005a:83115**
— (*with* Gregory, James P.; Olsson, Martin E.; Rajan, Peter; Vonk, Marcel) Type-0A 2D black hole thermodynamics and the deformed matrix model. (English summary) **2005d:83132**
— *see also* **Brecher, Dominic et al., 2005b:83113**
Dias, Óscar J. C. *see* **Santos, Nuno Loureiro et al., 2005i:83107** *and* **Cardoso, Vitor et al., 2005k:83126**
Dimitriadis, Apostolos (*with* Ross, Simon F.) Properties of nonextremal enhançons. (English summary) **2005d:83146**
Ding, Tian-Ran (*with* Zhao, Ren) Quantum statistical entropy of Kerr-de Sitter black hole. (English summary) **2005c:82088**
Done, Chris *see* **Gregory, Ruth et al., 2005i:83105**
Doran, Chris *see* **Lasenby, Anthony et al., 2005h:81178**
Elvang, Henriette (*with* Obers, Niels A.; Harmark, Troels) Phases of Kaluza-Klein black holes. (English summary) **2005f:83088**
— (*with* Emparan, Roberto; Mateos, David; Reall, Harvey S.) A supersymmetric black ring. (English summary) **2005h:83231**
— (*with* Emparan, Roberto; Figueras, Pau) Non-supersymmetric black rings as thermally excited supertubes. (English summary) **2005k:83178**
Emparan, Roberto *see* **Elvang, Henriette et al., 2005h:83231** *and* **2005k:83178**
Fabbri, Alessandro *see* **Balbinot, Roberto et al., 2005k:83107** *and* **Anderson, Paul R. et al., 2005k:83122**
Fabinger, Michal (*with* Silverstein, Eva) D-Sitter space: causal structure, thermodynamics, and entropy. (English summary) **2005m:83134**
Fabris, J. C. *see* **Alvarenga, F. G. et al.**
Fagnocchi, Serena *see* **Balbinot, Roberto et al., 2005k:83107**
Farese, Sara *see* **Balbinot, Roberto et al., 2005k:83107**
Faruque, S. B. Gravitomagnetic clock effect in the orbit of a spinning particle orbiting the Kerr black hole. (English summary) **2005b:83011**
Fatibene, Lorenzo *see* **Allemandi, Gianluca et al., 2005b:83040**
Ferraris, Marco *see* **Allemandi, Gianluca et al., 2005b:83040**
Figueras, Pau *see* **Elvang, Henriette et al., 2005k:83178**
Figueroa-O'Farrill, José (*with* Madden, Owen; Ross, Simon F.; Simón, Joan) Quotients of $AdS_{p+1} \times S^q$: causally well-behaved spaces and black holes. (English summary) **2005e:83091**
Fiol, Bartomeu (*with* Hofman, Christiaan; Lozano-Tellechea, Ernesto) Causal structure of $d=5$ vacua and axisymmetric spacetimes. (English summary) **2005c:83062**
Firsova, N. E. S-matrices for massless spinor particles on Reissner-Nordström black holes. (English summary)
Francaviglia, Mauro *see* **Allemandi, Gianluca et al., 2005b:83040**
Freese, Katherine *see* **Stojković, Dejan, 2005h:83285**
Frolov, Andrei V. (*with* Pen, Ue-Li) Naked singularity in the global structure of critical collapse spacetimes. (English summary) **2005g:83087**
Frolov, Valery P. (*with* Fursaev, D. V.; Stojković, Dejan) Interaction of higher-dimensional rotating black holes with branes. (English summary) **2005d:83111**
— (*with* Fursaev, D. V.; Stojković, Dejan) Rotating black holes in brane worlds. (English summary) **2005d:83112**
— Black holes and brane worlds. (English summary) **2005h:83191**
— (*with* Stevens, Kory A.) Stationary strings near a higher-dimensional rotating black hole. (English summary) **2005h:83233**
Fursaev, D. V. *see* **Frolov, Valery P. et al., 2005d:83111** *and* **2005d:83112**
Furtado, Claudio *see* **de M. Carvalho, Alexandre M. et al., 2005d:83121**
Gallo, Emanuel Generating static black holes in higher dimensional space-times. (English summary) **2005b:83093**
Gao, Chang Jun (*with* Zhang, Shuang Nan) Reissner-Nordström metric in the Friedman-Robertson-Walker universe. (English summary) [Reissner-Nordström metric in the Friedmann-Robertson-Walker universe] **2005h:83024**
— (*with* Zhang, Shuang Nan) Higher-dimensional dilaton black holes with cosmological constant. (English summary) **2005i:83104**
Garattini, Remo How spacetime foam modifies the brick wall. (English summary) **2005f:83043**
Garfinkle, David Gravitational collapse in anti de Sitter space. (English summary) **2005i:83087**
Gauntlett, Jerome P. (*with* Gutowski, Jan B.) Concentric black rings. (English summary) **2005j:83115**
— (*with* Gutowski, Jan B.) General concentric black rings. (English summary) **2005k:83180**
Ghezelbash, Amir Masoud *see* **Clarkson, Richard et al., 2005j:83021**
Gibbons, Gary W. (*with* Ida, Daisuke; Shiromizu, Tetsuya) Uniqueness and non-uniqueness of static vacuum black holes in higher dimensions. (English summary) **2005a:83096**
Giblin, John T., Jr. (*with* Hwang, Andrew D.) Space-time slices and surfaces of revolution. (English summary) **2005h:83150**
Gill, Tepper L. *see* **Lindesay, James, 2005g:81172**
Giovanazzi, S. Hawking radiation in sonic black holes. (English summary) **2005k:82106**
Giveon, Amit (*with* Konechny, Anatoly; Rabinovici, Eliezer; Sever, Amit) On thermodynamical properties of some coset CFT backgrounds. (English summary) **2005h:81328**
— (*with* Sever, Amit) Strings in a 2-d extremal black hole. (English summary) **2005k:83157**
Gladush, Valentin D. The variational principle and effective action for a spherical dust shell. (English summary) **2005f:83046**
Goswami, Rituparno *see* **Joshi, Pankaj S. et al., 2005d:83094** *and* **2005h:83147**
Gregory, James P. *see* **Brecher, Dominic et al., 2005b:83113** *and* **Danielsson, Ulf H. et al., 2005d:83132**
Gregory, Ruth (*with* Whisker, Richard; Beckwith, Kris; Done, Chris) Observing braneworld black holes. (English summary) **2005i:83105**
Güijosa, Alberto (*with* Lowe, David A.) New twist on the dS/CFT correspondence (English summary) **2005f:81181**

Guimarães, M. E. X. *see* **Abdalla, M. C. B. et al., 2005f:81233**
Gutowski, Jan B. *see* **Gauntlett, Jerome P., 2005j:83115** *and* **2005k:83180**
Haehnelt, Martin G. The connection between the formation of galaxies and that of their central supermassive black holes. (English summary) **2005j:85002**
Harmark, Troels (*with* Obers, Niels A.) General definition of gravitational tension. (English summary) **2005c:83073**
— (*with* Obers, Niels A.) New phases of thermal SYM and LST from Kaluza-Klein black holes. (English summary) **2005m:83135**
— *see also* **Elvang, Henriette et al., 2005f:83088**
Hashimoto, Akikazu (*with* Pando Zayas, Leopoldo A.) Correspondence principle for black holes in plane waves. (English summary) **2005a:83119**
Hashimoto, Yoshitake (*with* Sakaguchi, Makoto; Yasui, Yukinori) Sasaki-Einstein twist of Kerr-AdS black holes. (English summary) **2005h:83235**
Hernández-Pastora, J. L. (*with* Manko, O. V.; Manko, V. S.; Martín, Jésus; Ruiz, Eduardo) Equilibrium states in the quadruple-Kerr solution. (English summary) **2005a:83081**
Herrera-Aguilar, Alfredo (*with* Nowakowski, Marek[2]) Charged dual string vacua from interacting rotating black holes via discrete and nonlinear symmetries. (English summary) **2005a:83120**
— Charging interacting rotating black holes in heterotic string theory. (English summary) **2005e:83092**
Hertog, Thomas (*with* Maeda, Kengo) Black holes with scalar hair and asymptotics in $N = 8$ supergravity. (English summary) **2005d:83149**
Hervik, Sigbjørn Einstein metrics: homogeneous solvmanifolds, generalised Heisenberg groups and black holes. (English summary) **2005k:53055**
Hikida, Wataru (*with* Jhingan, Sanjay; Nakano, Hiroyuki; Sago, Norichika; Sasaki, Misao; Tanaka, Takahiro) A new analytical method for self-force regularization. I. Charged scalar particles in Schwarzschild spacetime. (English summary) **2005d:83027**
— (*with* Jhingan, Sanjay; Nakano, Hiroyuki; Sago, Norichika; Sasaki, Misao; Tanaka, Takahiro) A new analytical method for self-force regularization. II. Testing the efficiency for circular orbits. (English summary) **2005k:83033**
Hofman, Christiaan *see* **Fiol, Bartomeu et al., 2005c:83062**
Horowitz, Gary T. Playing with black strings. (*see* **2005j:83002**)
Huang, Wung-Hong Entropy and quantum states of tachyon supertube. (English summary) **2005j:83118**
Huerta, Marina *see* **Casini, H., 2005e:81023**
Hwang, Andrew D. *see* **Giblin, John T., Jr., 2005h:83150**
Ida, Daisuke *see* **Gibbons, Gary W. et al., 2005a:83096**
Ioannidou, Theodora *see* **Brihaye, Yves, 2005m:83022**
Iorio, Alfredo (*with* Lambiase, G.; Vitiello, Giuseppe) Entangled quantum fields near the event horizon and entropy. (English summary) **2005e:83032**
Ishibashi, Akihiro *see* **Kodama, Hideo, 2005a:83102**
Janke, Wolfhard *see* **Johnston, Desmond A. et al., 2005d:82012**
Jezierski, Jacek (*with* Kijowski, Jerzy; Czuchry, Ewa) Boundary data in canonical gravity and thermodynamics of black holes. (English summary) **2005m:83018**
Jhingan, Sanjay *see* **Hikida, Wataru et al., 2005d:83027** *and* **2005k:83033**
Johnston, Desmond A. (*with* Janke, Wolfhard; Kenna, R.) Information geometry, one, two, three (and four). (English summary) **2005d:82012**
Joshi, Pankaj S. (*with* Goswami, Rituparno) Role of initial data in spherical collapse. (English summary) **2005d:83094**
— (*with* Goswami, Rituparno; Dadhich, Naresh) Why do naked singularities form in gravitational collapse? II. (English summary) **2005h:83147**
Kang, Gungwon (*with* Lee, Jungjai) Classical stability of black D3-branes. (English summary) **2005b:83124**
Kanti, P. (*with* Olasagasti, I.; Tamvakis, K.) Quest for localized 4D black holes in brane worlds. II. Removing the bulk singularities. (English summary) **2005b:83098**
Käppeli, Jürg *see* **Cardoso, Gabriel Lopes et al., 2005k:83150**
Karasik, D. (*with* Sahabandu, C.; Suranyi, P.; Wijewardhana, L. C. Rohana) Small brane black holes in the Randall-Sundrum type I scenario. (English summary)
— (*with* Sahabandu, C.; Suranyi, P.; Wijewardhana, L. C. Rohana) Small black holes on branes: is the horizon regular or singular? (English summary) **2005h:83197**
Kenna, R. *see* **Johnston, Desmond A. et al., 2005d:82012**
Kijowski, Jerzy *see* **Jezierski, Jacek et al., 2005m:83018**
Kim, Sang Pyo *see* **Cai, Rong-Gen, 2005k:83194**
Kim, Won Tae (*with* Son, Edwin J.) Wormhole phase in the RST model. (English summary) **2005h:83151**
Kiuchi, Kenta (*with* Maeda, Kei-ichi) Gravitational waves from a chaotic dynamical system. (English summary) **2005j:83030**
Klein, Christian The Kerr solution on partially degenerate hyperelliptic Riemann surfaces. (Russian. Russian summary) **2005f:83016**
Kodama, Hideo (*with* Ishibashi, Akihiro) A master equation for gravitational perturbations of maximally symmetric black holes in higher dimensions. (English summary) **2005a:83102**
Konechny, Anatoly *see* **Giveon, Amit et al., 2005h:81328**
Konoplya, Roman A. Quasinormal modes of the charged black hole in Gauss-Bonnet gravity. (English summary) **2005j:83098**
Krasnov, Kirill (*with* Solodukhin, S. N.) Effective stringy description of Schwarzschild black holes. (English summary) **2005j:83121**
Kraus, Per (*with* Ooguri, Hirosi; Shenker, Stephen) Inside the horizon with AdS/CFT. (English summary) **2005b:81174**
— *see also* **Bena, Iosif, 2005j:83106**
Kumar Dey, Tanay *see* **Biswas, Anindya et al., 2005j:83130**
Kuperstein, Stanislav (*with* Sonnenschein, Jacob) Non-critical, near extremal AdS_6 background as a holographic laboratory of four dimensional YM theory. (English summary) **2005h:83238**
Kuriakose, P. I. (*with* Kuriakose, V. C.) Back reaction in static Einstein spaces—change of entropy. (English summary) **2005g:83020**
Kuriakose, V. C. *see* **Kuriakose, P. I., 2005g:83020**
Lambiase, G. *see* **Iorio, Alfredo et al., 2005e:83032**
Lasenby, Anthony (*with* Doran, Chris; Arcaute, Elsa) Applications of geometric algebra in electromagnetism, quantum theory and gravity. (English summary) **2005h:81178**
Lau, Stephen R. Rapid evaluation of radiation boundary kernels for time-domain wave propagation on blackholes: theory and numerical methods. (English summary) **2005f:83003**
Lee, Jungjai *see* **Kang, Gungwon, 2005b:83124**
Lehner, Luis (*with* Reula, Oscar A.) Status quo and open problems in the numerical construction of spacetimes. (English summary) **2005i:83002**
— *see also* **Calabrese, Gioel et al., 2005m:83003**
Lemos, José P. S. (*with* Lobo, Francisco S. N.) Plane symmetric traversable wormholes in an anti-de Sitter background. (English summary) **2005e:83074**
— *see also* **Santos, Nuno Loureiro et al., 2005i:83107** *and* **Cardoso, Vitor et al., 2005k:83126**
Letelier, Patricio S. Stability of circular orbits of particles moving around black holes surrounded by axially symmetric structures. (English summary) **2005b:83012**
Li, Miao[1] Macroscopic black holes, microscopic black holes and noncommutative membrane. (English summary) **2005b:83074**
Lifschytz, Gilad *see* **Bergman, Oren, 2005b:83110**
Lin, Y.-C. *see* **Cho, Hing Tong, 2005m:81078**
Lindesay, James (*with* Gill, Tepper L.) Canonical proper time formulation for physical systems. (English summary) **2005g:81172**
Liu, Chiu-Chu Melissa (*with* Yau, Shing-Tung) Liu and Yau reply: "Comment on: 'Positivity of Quasilocal mass' " [Phys. Rev. Lett. **92** (2004), no. 25, 259001, 1 p.; MR2114434 (2005m:83040)] by N. Ó. Murchadha, L. B. Szabados and K. P. Tod. **2005m:83041**
— *see also* **Ó Murchadha, Niall et al., 2005m:83040**
Liu, James T. (*with* Pando Zayas, Leopoldo A.; Vaman, Diana) On horizons and plane waves. (English summary) **2005f:83104**
Lobo, Francisco S. N. *see* **Lemos, José P. S., 2005e:83074**
Lowe, David A. *see* **Güijosa, Alberto, 2005f:81181**
Lozano-Tellechea, Ernesto *see* **Fiol, Bartomeu et al., 2005c:83062**
Lü, Hong[1] (*with* Pope, Christopher N.; Vázquez-Poritz, Justin F.) From AdS black holes to supersymmetric flux-branes. (English summary) **2005i:83121**
— *see also* **Cvetič, Mirjam et al., 2005h:83252** *and* **Chong, Z.-W. et al., 2005m:83146**
Lunin, Oleg Adding momentum to D1-D5 system. (English summary) **2005k:81250**
Lynker, Monika (*with* Periwal, Vipul; Schimmrigk, Rolf) Black hole attractor varieties and complex multiplication. (English summary) **2005f:14082a**
— (*with* Periwal, Vipul; Schimmrigk, Rolf) Complex multiplication symmetry of black hole attractors. (English summary) **2005f:14082b**
Macías, Alfredo Black holes in metric-affine gravity. (English and Russian summaries) **2005m:83105**
Madden, Owen *see* **Figueroa-O'Farrill, José et al., 2005e:83091**
Maeda, Kei-ichi *see* **Kiuchi, Kenta, 2005j:83030**
Maeda, Kengo *see* **Hertog, Thomas, 2005d:83149**
Mäkelä, Jarmo (*with* Peltola, Ari) Spacetime foam model of the Schwarzschild horizon. (English summary) **2005d:83052**
Manko, O. V. *see* **Hernández-Pastora, J. L. et al., 2005a:83081**
Manko, V. S. *see* **Hernández-Pastora, J. L. et al., 2005a:83081**
Mann, Robert B. (*with* Stelea, Cristian) Nuttier (A)dS black holes in higher dimensions. (English summary) **2005f:83090**
— *see also* **Clarkson, Richard et al., 2005j:83021**
Marques, G. T. *see* **Alvarenga, F. G. et al.**
Martel, Karl Gravitational waveforms from a point particle orbiting a Schwarzschild black hole. (English summary) **2005d:83008**
Martín, Jésus *see* **Hernández-Pastora, J. L. et al., 2005a:83081**
Mateos, David *see* **Elvang, Henriette et al., 2005h:83231**
Mathur, Samir D. (*with* Saxena, Ashish; Srivastava, Yogesh) Constructing 'hair' for the three charge hole. (English summary) **2005a:83127**
de M. Carvalho, Alexandre M. (*with* Furtado, Claudio; Moraes, Fernando) Global properties of the black cigar spacetime. (English summary) **2005d:83121**
McInnes, Brett de Sitter and Schwarzschild-de Sitter according to Schwarzschild and de Sitter. (English summary) **2005a:83018**
Meissner, Krzysztof A. Black-hole entropy in loop quantum gravity. (English summary) **2005j:83039**
Michtchenko, A. V. *see* **Bronnikov, K. A., 2005m:83120**
Mielke, Eckehard W. (*with* Rincón Maggiolo, Alí A.) Rotating black hole solution in a generalized topological 3D gravity with torsion. (English summary) **2005b:83082**
Modesto, Leonardo Disappearance of the black hole singularity in loop quantum gravity. (English summary) **2005i:83043**
Mohaupt, Thomas *see* **Cardoso, Gabriel Lopes et al., 2005k:83150**
Mora, Pablo (*with* Olea, Rodrigo; Troncoso, Ricardo; Zanelli, Jorge) Finite action principle for Chern-Simons AdS gravity. (English summary) **2005d:83125**
Moraes, Fernando *see* **de M. Carvalho, Alexandre M. et al., 2005d:83121**
Moretti, Valter (*with* Pinamonti, Nicola) The interplay of conformal invariance, quantum field theory near the horizon of a 2D-black hole and holography. (English summary) **2005f:81213**
Mukherji, Sudipta *see* **Biswas, Anindya et al., 2005j:83130**
Mukhopadhyay, Banibrata (*with* Dadhich, Naresh) Scalar and spinor perturbation to the Kerr-NUT spacetime. (English summary) **2005e:83057**
Nagaoka, Satoshi Non-extreme black holes from D-branes at angles. (English summary) **2005h:83241**
Nakano, Hiroyuki *see* **Hikida, Wataru et al., 2005d:83027** *and* **2005k:83033**
Navarro-Salas, José *see* **Balbinot, Roberto et al., 2005k:83107**
Ng, Y. Jack (*with* van Dam, H.) Spacetime foam, holographic principle, and black hole quantum computers. (English summary) **2005j:83040**
Nojiri, Shin'ichi (*with* Odintsov, Sergei D.) One-loop vacuum energy and RG flow induced by double-trace operators in AdS/CFT and dS/CFT correspondence. (English summary) **2005d:81259**
Nowakowski, Marek[2] *see* **Herrera-Aguilar, Alfredo, 2005a:83120**
Obers, Niels A. *see* **Harmark, Troels, 2005c:83073; 2005m:83135** *and* **Elvang, Henriette et al., 2005f:83088**
Odintsov, Sergei D. *see* **Nojiri, Shin'ichi, 2005d:81259**
Olasagasti, I. *see* **Kanti, P. et al., 2005b:83098**

Ólea, Rodrigo *see* **Mora, Pablo et al., 2005d:83125**
Olsson, Martin E. *see* **Brecher, Dominic et al., 2005b:83113** *and* **Danielsson, Ulf H. et al., 2005d:83132**
Ó Murchadha, Niall (*with* Szabados, L. B.; Tod, Kenneth Paul) Comment on: "Positivity of quasilocal mass" [Phys. Rev. Lett. **90** (2003), no. 23, 231102, 4 pp.; MR2000281 (2004g:83031)] by C.-C. M. Liu and S.-T. Yau. **2005m:83040**
— *see also* **Liu, Chiu-Chu Melissa, 2005m:83041**
Ooguri, Hirosi *see* **Kraus, Per et al., 2005b:81174**
Ordóñez, Carlos R. *see* **Camblong, Horacio E., 2005d:81165**
Ortín, Tomás A note on supersymmetric Gödel black holes, strings and rings of minimal $d = 5$ supergravity. (English summary) **2005k:83187**
Pando Zayas, Leopoldo A. *see* **Hashimoto, Akikazu, 2005a:83119** *and* **Liu, James T. et al., 2005f:83104**
Peacock, J. A. Black holes, cooling flows and galaxy formation. (English summary) **2005k:85001**
Peltola, Ari *see* **Mäkelä, Jarmo, 2005d:83052**
Pen, Ue-Li *see* **Frolov, Andrei V., 2005g:83087**
Periwal, Vipul *see* **Lynker, Monika et al., 2005f:14082a** *and* **2005f:14082b**
Perry, Malcolm J. Black holes and string theory. (*see* **2005j:83002**)
Perry, Peter A. (*with* Williams, Floyd L.) Selberg zeta function and trace formula for the BTZ black hole. (English summary) **2005h:11205**
Pinamonti, Nicola (*with* Vanzo, Luciano) Central charges and boundary fields for two-dimensional dilatonic black holes. (English summary) **2005d:83098**
— *see also* **Moretti, Valter, 2005f:81213**
Poisson, Eric ★ A relativist's toolkit. **2005d:83002**
Polchinski, Joseph M theory and black hole quantum mechanics. (*see* **2005j:83002**)
Pope, Christopher N. *see* **Cvetič, Mirjam et al., 2005h:83252**; **Lü, Hong[1] et al., 2005i:83121** *and* **Chong, Z.-W. et al., 2005m:83146**
Porrati, Massimo (*with* Rabadán, Raúl) Boundary rigidity and holography. (English summary) **2005f:53135**
Prakash, Nirmala ★ Mathematical perspectives on theoretical physics. **2005f:81002**
Preti, Giovanni On charged particle orbits in dipole magnetic fields around Schwarzschild black holes. (English summary) **2005b:83013**
Procaccini, Andrea *see* **Amelino-Camelia, Giovanni et al., 2005h:83063**
Rabadán, Raúl *see* **Porrati, Massimo, 2005f:53135**
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Raiteri, M. *see* **Allemandi, Gianluca et al., 2005b:83040**
Rajan, Peter *see* **Danielsson, Ulf H. et al., 2005d:83132**
Reall, Harvey S. *see* **Elvang, Henriette et al., 2005h:83231**
Reimann, Bernd (*with* Brügmann, Bernd) Late time analysis for maximal slicing of Reissner-Nordström puncture evolutions. (English summary) **2005g:83022**
Reula, Oscar A. *see* **Lehner, Luis, 2005i:83002** *and* **Calabrese, Gioel et al., 2005m:83003**
Ribault, Sylvain (*with* Schomerus, Volker) Branes in the 2D black hole. (English summary) **2005f:81220**
Rincón Maggiolo, Alí A. *see* **Mielke, Eckehard W., 2005b:83082**
Rizzo, Thomas G. Warped phenomenology of higher-derivative gravity. (English summary) **2005k:83144**
Rogatko, Marek Cosmological black holes on branes. (English summary) **2005e:83086**
Ross, Simon F. *see* **Dimitriadis, Apostolos, 2005d:83146** *and* **Figueroa-O'Farrill, José et al., 2005e:83091**
Ruiz, Eduardo *see* **Hernández-Pastora, J. L. et al., 2005a:83081**
Sago, Norichika *see* **Hikida, Wataru et al., 2005d:83027** *and* **2005k:83033**
Sahabandu, C. *see* **Karasik, D. et al., 2005h:83197**
Sakaguchi, Makoto *see* **Hashimoto, Yoshitake et al., 2005h:83235**
Sanchez, Norma G. Conceptual unification of elementary particles, black holes, quantum de Sitter and anti-de Sitter string states. (English summary) **2005j:83125**
Santos, Nuno Loureiro (*with* Dias, Óscar J. C.; Lemos, José P. S.) Global embedding of D-dimensional black holes with a cosmological constant in Minkowskian spacetimes: matching between Hawking temperature and Unruh temperature. (English summary) **2005i:83107**
Sarbach, Olivier *see* **Calabrese, Gioel et al., 2005m:83003**
Sasaki, Misao (*with* Tagoshi, Hideyuki) Analytic black hole perturbation approach to gravitational radiation. (English summary) **2005g:83036**
— *see also* **Hikida, Wataru et al., 2005d:83027** *and* **2005k:83033**
Saxena, Ashish *see* **Mathur, Samir D. et al., 2005a:83127**
Schimmrigk, Rolf *see* **Lynker, Monika et al., 2005f:14082a** *and* **2005f:14082b**
Schmid, Harald Bound state solutions of the Dirac equation in the extreme Kerr geometry. (English summary) **2005k:81194**
Schomerus, Volker *see* **Ribault, Sylvain, 2005f:81220**
Schützhold, Ralf *see* **Unruh, William G., 2005j:83046**
Schwimmer, Adam *see* **Bañados, Máximo et al., 2005d:81321**
Senovilla, José M. M. On the existence of horizons in spacetimes with vanishing curvature invariants. (English summary) **2005a:83078**
Sever, Amit *see* **Giveon, Amit et al., 2005h:81328** *and* **2005k:83157**
Shenker, Stephen *see* **Kraus, Per et al., 2005b:81174**
Shiromizu, Tetsuya *see* **Gibbons, Gary W. et al., 2005a:83096**
Silverstein, Eva *see* **Fabinger, Michal, 2005m:83134**
Simón, Joan *see* **Figueroa-O'Farrill, José et al., 2005e:83091**
Singh, Tejinder P. *see* **Vaz, Cenalo et al., 2005h:83079**
Siopsis, George Unitarity, quasi-normal modes and the AdS_3/CFT_2 correspondence. (English summary) **2005j:83079**
Solodukhin, S. N. *see* **Krasnov, Kirill, 2005j:83121**
Son, Edwin J. *see* **Kim, Won Tae, 2005h:83151**
Sonnenschein, Jacob *see* **Kuperstein, Stanislav, 2005h:83238**
Sorkin, Evgeny Critical dimension in the black-string phase transition. (English summary) **2005h:83246**
Srivastava, Yogesh *see* **Mathur, Samir D. et al., 2005a:83127**
Stelea, Cristian *see* **Mann, Robert B., 2005f:83090**
Stevens, Kory A. *see* **Frolov, Valery P., 2005h:83233**
Stojković, Dejan Energy flux through the horizon in the black hole-domain wall systems. (English summary) **2005g:83147**
— (*with* Freese, Katherine) A black hole solution to the cosmological monopole problem. (English summary) **2005h:83285**
— *see also* **Frolov, Valery P. et al., 2005d:83111** *and* **2005d:83112**
Suranyi, P. *see* **Karasik, D. et al., 2005h:83197**
Szabados, L. B. *see* **Ó Murchadha, Niall et al., 2005m:83040** *and* **Liu, Chiu-Chu Melissa, 2005m:83041**
Tagoshi, Hideyuki *see* **Sasaki, Misao, 2005g:83036**
Tamvakis, K. *see* **Kanti, P. et al., 2005b:83098**
Tanaka, Takahiro *see* **Hikida, Wataru et al., 2005d:83027** *and* **2005k:83033**
Terashima, Hiroaki (*with* Ueda, Masahito) Einstein-Podolsky-Rosen correlation in a gravitational field. (English summary) **2005d:81076**
Theisen, Stefan *see* **Bañados, Máximo et al., 2005d:81321**
Thornburg, Jonathan Black-hole excision with multiple grid patches. (English summary) **2005f:83004**
Tiglio, Manuel *see* **Calabrese, Gioel et al., 2005m:83003**
Tod, Kenneth Paul *see* **Ó Murchadha, Niall et al., 2005m:83040** *and* **Liu, Chiu-Chu Melissa, 2005m:83041**
Townsend, Paul Kingsley Surprises with angular momentum. (English summary) **2005a:83110**
Troncoso, Ricardo *see* **Mora, Pablo et al., 2005d:83125**
Ueda, Masahito *see* **Terashima, Hiroaki, 2005d:81076**
Unruh, William G. (*with* Schützhold, Ralf) Universality of the Hawking effect. (English summary) **2005j:83046**
Vaman, Diana *see* **Liu, James T. et al., 2005f:83104**
Vanzo, Luciano *see* **Pinamonti, Nicola, 2005d:83098**
Vaz, Cenalo (*with* Witten, Louis; Singh, Tejinder P.) Exact quantum state of collapse and black hole radiation. (English summary) **2005h:83079**
Vázquez-Poritz, Justin F. *see* **Lü, Hong[1] et al., 2005i:83121**
Veneziano, Gabriele String-theoretic unitary S-matrix at the threshold of black-hole production. (English summary) **2005i:83127**
Viaggiu, Stefano *see* **Bergamini, Roberto, 2005f:83013**
Vitiello, Giuseppe *see* **Iorio, Alfredo et al., 2005e:83032**
Vonk, Marcel *see* **Danielsson, Ulf H. et al., 2005d:83132**
Vyas, U. D. Chronal isomorphism, singularities and black holes. (English summary) **2005a:83079**
Wang, John E. Twisting S-branes. (English summary) **2005d:83141**
Whisker, Richard *see* **Gregory, Ruth et al., 2005i:83105**
Wijewardhana, L. C. Rohana *see* **Karasik, D. et al., 2005h:83197**
Williams, Floyd L. *see* **Perry, Peter A., 2005h:11205**
de Wit, Bernard *see* **Cardoso, Gabriel Lopes et al., 2005k:83150**
Witten, Louis *see* **Vaz, Cenalo et al., 2005h:83079**
Yang, Xue Jun[1] (*with* Zhao, Zheng[1]) Quantum thermal effect of arbitrarily accelerating Kerr black hole. (English summary) **2005m:83052**
Yarom, Amos *see* **Brustein, Ram, 2005k:81176**
Yasui, Yukinori *see* **Hashimoto, Yoshitake et al., 2005h:83235**
Yau, Shing-Tung *see* **Ó Murchadha, Niall et al., 2005m:83040** *and* **Liu, Chiu-Chu Melissa, 2005m:83041**
Yee, Ho-Ung *see* **Bak, Dongsu, 2005c:83058**
Yogendran, K. P. D-branes in 2D Lorentzian black hole. (English summary) **2005k:83170**
Zanelli, Jorge *see* **Mora, Pablo et al., 2005d:83125**
Zaslavskii, O. B. Two-dimensional dilaton gravity and spacetimes with finite curvature at the horizon away from the Hawking temperature. (English and Russian summaries) **2005i:83093**
— Two-dimensional quantum-corrected black hole in a finite size cavity. (English summary) **2005e:83070**
— Classical model of an elementary particle with a Bertotti-Robinson core and extremal black holes. (English summary) **2005i:83019**
Zhang, Shuang Nan *see* **Gao, Chang Jun, 2005h:83024** *and* **2005i:83104**
Zhao, Ren *see* **Ding, Tian-Ran, 2005c:82088**
Zhao, Zheng[1] *see* **Yang, Xue Jun[1], 2005m:83052**

83C60 Spinor and twistor methods; Newman-Penrose formalism

Ahsan, Nikhat *see* **Ahsan, Zafar, 2005g:83079**
Ahsan, Zafar (*with* Ahsan, Nikhat) Lanczos spin tensor, general observers and tetrad formalisms. (English summary) **2005g:83079**
Bagrov, V. G. (*with* Makarenko, A. N.; Obukhov, V. V.; Osetrin, K. E.) Spinor fields in homogeneous cosmological models. (English and Russian summaries)
Bergqvist, G. (*with* Lankinen, P.) Unique characterization of the Bel-Robinson tensor. (English summary) **2005d:83087**
von Borzeszkowski, Horst-Heino *see* **Herrmann, Heiko et al., 2005d:83088**
Bronnikov, K. A. (*with* Chudayeva, E. N.; Shikin, G. N.) Self-gravitating string-like configurations of nonlinear spinor fields. (English summary) **2005a:83072**
Capelas de Oliveira, E. (*with* Rodrigues, Waldyr A., Jr.) Dotted and undotted algebraic spinor fields in general relativity. (English summary) **2005g:83081**
— (*with* Rodrigues, Waldyr A., Jr.) Errata: "Dotted and undotted algebraic spinor fields in general relativity" [Internat. J. Modern Phys. D **13** (2004), no. 8, 1637–1659; MR2097531 (2005g:83081)].
Castro, Carlos[1] The charge-mass-spin relation of Clifford polyparticles, Kerr-Newman black holes and the fine structure constant. (English summary) **2005i:83082**
Chamblin, Andrew Twistors and holography. (English summary) **2005b:83071**
Chudayeva, E. N. *see* **Bronnikov, K. A. et al., 2005a:83072**
Cotăescu, Ion I. Polarized Dirac fermions in de Sitter spacetime. (English summary) **2005h:83083**
Dadhich, Naresh *see* **Mukhopadhyay, Banibrata, 2005e:83057**
Francia, Dario (*with* Sagnotti, Augusto) On the geometry of higher-spin gauge fields. (English summary) **2005k:83097**

Francis, Matthew R. (*with* Kosowsky, Arthur) Geometric algebra techniques for general relativity. (English summary) **2005i:83083**
Herrmann, Heiko (*with* Muschik, W.; Rückner, G.; von Borzeszkowski, Horst-Heino) Spin axioms in different geometries of relativistic continuum physics. (English summary) **2005d:83088**
Kosowsky, Arthur *see* **Francis, Matthew R., 2005i:83083**
Krechet, V. G. (*with* Levkoeva, M. V.; Mamontov, S. I.) Spinor fields in 5-dimensional rotational cosmological model and geometric interpretation of axions. (English and Russian summaries)
Lankinen, P. *see* **Bergqvist, G., 2005d:83087**
Levkoeva, M. V. *see* **Krechet, V. G. et al.**
Makarenko, A. N. *see* **Bagrov, V. G. et al.**
Mamontov, S. I. *see* **Krechet, V. G. et al.**
Moradi, S. (*with* Rouhani, S.; Takook, M. V.) Discrete symmetries for spinor field in de Sitter space. (English summary) **2005k:83098**
Mukhopadhyay, Banibrata (*with* Dadhich, Naresh) Scalar and spinor perturbation to the Kerr-NUT spacetime. (English summary) **2005e:83057**
Muschik, W. *see* **Herrmann, Heiko et al., 2005d:83088**
Nicolas, Jean-Philippe Dirac fields on asymptotically simple space-times. **2005h:83137**
Obukhov, V. V. *see* **Bagrov, V. G. et al.**
O'Donnell, Peter A method for finding Lanczos coefficients with the aid of symmetries. (English summary) **2005g:83080**
— A solution of the Weyl-Lanczos equations for the Schwarzschild space-time. (English summary) **2005c:83045**
Osetrin, K. E. *see* **Bagrov, V. G. et al.**
Parra, Josep M. *see* **Pozo, Jose M., 2005d:83089**
Pozo, Jose M. (*with* Parra, Josep M.) r-fold multivectors and superenergy. (English summary) **2005d:83089**
Rodrigues, Waldyr A., Jr. *see* **Capelas de Oliveira, E., 2005g:83081**
Rouhani, S. *see* **Moradi, S. et al., 2005k:83098**
Rückner, G. *see* **Herrmann, Heiko et al., 2005d:83088**
Rühl, Werner The production of masses for higher spin gauge fields on AdS(4) from AdS/CFT correspondence. (English summary) **2005m:83084**
Sagnotti, Augusto *see* **Francia, Dario, 2005k:83097**
Saha, Bijan (*with* Shikin, G. N.) Plane-symmetric solitons of spinor and scalar fields. (English summary) **2005g:83082**
— Nonlinear spinor field in cosmology. (English summary) **2005e:83058**
Shikin, G. N. *see* **Bronnikov, K. A. et al., 2005a:83072** *and* **Saha, Bijan, 2005g:83082**
Sucu, Yusuf (*with* Ünal, Nuri) Dirac equation in Euclidean Newman-Penrose formalism with applications to instanton metrics. (English summary) **2005c:83046**
Takook, M. V. *see* **Moradi, S. et al., 2005k:83098**
Ünal, Nuri *see* **Sucu, Yusuf, 2005c:83046**
Zecca, A. The spin connection, the Dirac and the Einstein-Dirac equation in Robertson-Walker space-time. (English summary) **2005b:83072**

Items with secondary classifications in 83C60

Adak, M. (*with* Dereli, Tekin) Spinor couplings to dilaton gravity induced by the dimensional reduction of topologically massive gravity. (English summary) **2005b:83079**
Agricola, Ilka (*with* Friedrich, Thomas) Killing spinors in supergravity with 4-fluxes. (English summary) **2005a:83131**
Anco, Stephen C. (*with* Pohjanpelto, Juha) Symmetries and currents of massless neutrino fields, electromagnetic and graviton fields. (English summary) **2005b:81063**
Behera, Harihar (*with* Naik, P. C.) Gravitomagnetic moments and dynamics of Dirac (spin $\frac{1}{2}$) fermions in flat space-time Maxwellian gravity. (English summary) **2005f:83077**
Benn, I. M. (*with* Kress, J. M.) First-order Dirac symmetry operators. (English summary) **2005f:58064**
Carminati, John *see* **Zakhary, E., 2005a:83027**
Cohen, Marcus S. Clifford tetrads, null zig zags, and quantum gravity. (English summary) **2005g:83047**
D'Eath, P. D. What local supersymmetry can do for quantum cosmology. (*see* **2005j:83002**)
Dereli, Tekin *see* **Adak, M., 2005b:83079**
Edgar, S. Brian Proofs of existence of local potentials for trace-free symmetric 2-forms using dimensionally dependent identities. (English summary) **2005m:53072**
Fatibene, Lorenzo (*with* Francaviglia, Mauro) ★ Natural and gauge natural formalism for classical field theories. **2005f:58015**
Firsova, N. E. S-matrices for spinor particles on Reissner-Nordström black holes. (English summary) **2005a:83058**
Francaviglia, Mauro *see* **Fatibene, Lorenzo, 2005f:58015**
Frauendiener, Jörg Conformal infinity. (English summary) **2005e:83026**
Freedman, Daniel Z. (*with* Núñez, Carlos; Schnabl, M.; Skenderis, Kostas) Fake supergravity and domain wall stability. (English summary) **2005f:83116**
Friedrich, Thomas *see* **Agricola, Ilka, 2005a:83131**
Haesen, Stefan (*with* Verstraelen, Leopold) Classification of the pseudosymmetric space-times. (English summary) **2005b:83028**
Havare, Ali (*with* Yetkin, Taylan; Sogut, Kenan) On the equivalence of the massless DKP equation and Maxwell equations in Robertson-Walker spacetime. (English summary) **2005a:83030**
— *see also* **Yetkin, Taylan, 2005a:83033**
Kassandrov, Vladimir V. (*with* Trishin, Vladimir N.) Effective connections and fields associated with shear-free null congruences. (English summary) **2005k:83025**
Kim, Eui Chul Remark on the limit case of positive mass theorem for manifolds with inner boundary. (English summary) **2005a:53061**
Kress, J. M. *see* **Benn, I. M., 2005f:58064**
López-Ortega, A. Dirac fields in 3D de Sitter spacetime. (English summary) **2005e:83066**
Marinho, Rubens M. *see* **de Paula, Wayne L. S. et al., 2005g:83041**
Mason, Lionel J. (*with* Nicolas, Jean-Philippe) Conformal scattering and the Goursat problem. (English summary) **2005i:83026**
Miranda, Oswaldo D. *see* **de Paula, Wayne L. S. et al., 2005g:83041**
Naik, P. C. *see* **Behera, Harihar, 2005f:83077**
Nicolas, Jean-Philippe *see* **Mason, Lionel J., 2005i:83026**
Núñez, Carlos *see* **Freedman, Daniel Z. et al., 2005f:83116**
Özdemir, F. (*with* Özdemir, Nese) Maxwell equations in the spinning cosmic string spacetimes. (English summary) **2005e:83035**
Özdemir, Nese *see* **Özdemir, F., 2005e:83035**
de Paula, Wayne L. S. (*with* Miranda, Oswaldo D.; Marinho, Rubens M.) Polarization states of gravitational waves with a massive graviton. (English summary) **2005g:83041**
Pohjanpelto, Juha *see* **Anco, Stephen C., 2005b:81063**
de Rey Neto, Edgard C. Geodesic deviation in pp-wave spacetimes of quadratic curvature gravity. (English summary) **2005c:83005**
Saffin, P. M. Type IIA Killing spinors and calibrations. (English summary) **2005k:83190**
Schnabl, M. *see* **Freedman, Daniel Z. et al., 2005f:83116**
Shen, You-Gen *see* **Shu, Fu-Wen, 2005k:83093** *and* **2005m:83081**
Shu, Fu-Wen (*with* Shen, You-Gen) Quasinormal modes of Rarita-Schwinger field in Reissner-Nordström black hole spacetimes. (English summary) **2005k:83093**
— (*with* Shen, You-Gen) Quasinormal modes in Schwarzschild black holes due to arbitrary spin fields. (English summary) **2005m:83081**
Šijački, Djordje $\overline{\mathrm{SL}}(4, \mathbf{R})$ embedding for a 3D world spinor equation. (English summary) **2005j:81079**
Skenderis, Kostas *see* **Freedman, Daniel Z. et al., 2005f:83116**
Sogut, Kenan *see* **Havare, Ali et al., 2005a:83030**
Trishin, Vladimir N. *see* **Kassandrov, Vladimir V., 2005k:83025**
Vacaru, Sergiu I. (*with* Vicol, Nadejda A.) Nonlinear connections and spinor geometry. (English summary) **2005g:53135**
Verstraelen, Leopold *see* **Haesen, Stefan, 2005b:83028**
Vicol, Nadejda A. *see* **Vacaru, Sergiu I., 2005g:53135**
Wetterich, Christof Spontaneous symmetry breaking origin for the difference between time and space. (English summary) **2005h:81032**
Wu, Shuang-Qing (*with* Yan, Mu-Lin) Entropy of a Kerr-de Sitter black hole due to arbitrary spin fields. (English summary) **2005d:83085**
Yan, Mu-Lin *see* **Wu, Shuang-Qing, 2005d:83085**
Yetkin, Taylan (*with* Havare, Ali) The massless DKP equation and the Maxwell equations in Bianchi type III space-times. (English summary) **2005a:83033**
— *see also* **Havare, Ali et al., 2005a:83030**
Zakhary, E. (*with* Carminati, John) A new algorithm for the Segre classification of the trace-free Ricci tensor. (English summary) **2005a:83027**

83C65 Methods of noncommutative geometry [see also 58B34]

Abe, Yasuhiro (*with* Nair, V. P.) Noncommutative gravity: fuzzy sphere and others. (English summary) **2005d:83090**
Agostini, Alessandra (*with* Amelino-Camelia, Giovanni; Arzano, Michele) Dirac spinors for doubly special relativity and κ-Minkowski noncommutative spacetime. (English summary) **2005c:83047**
de Albuquerque, Luiz C. (*with* deLyra, Jorge L.) Fluctuating commutative geometry. (English summary) **2005g:83083**
Amelino-Camelia, Giovanni *see* **Agostini, Alessandra et al., 2005c:83047**
Arzano, Michele *see* **Agostini, Alessandra et al., 2005c:83047**
Avramidi, Ivan G. A noncommutative deformation of general relativity. (English summary) **2005a:83073**
Barbosa, G. D. Noncommutative conformally coupled scalar field cosmology and its commutative counterpart. (English summary) **2005k:83099**
Calcagni, Gianluca (*with* Tsujikawa, Shinji) Observational constraints on patch inflation in noncommutative spacetime. (English summary) **2005m:83085**
— Noncommutative models in patch cosmology. (English summary) **2005m:83086**
— Consistency relations and degeneracies in (non)commutative patch inflation. (English summary) **2005h:83138**
Castro, Carlos[1] Moyal deformations of gravity via $SU(\infty)$ gauge theories, branes and topological Chern-Simons matrix models. (English summary) **2005j:83072**
Chamseddine, Ali H. $SL(2, \mathbb{C})$ gravity with a complex vierbein and its noncommutative extension. (English summary) **2005j:83073**
— Matrix gravity and massive colored gravitons. (English summary) **2005h:83139**
Di Grezia, Elisabetta (*with* Esposito, Giampiero; Funel, Agostino; Mangano, Gianpiero; Miele, Gennaro) Spacetime noncommutativity and antisymmetric tensor dynamics in the early universe. (English summary) **2005a:83074**
Esposito, Giampiero *see* **Di Grezia, Elisabetta et al., 2005a:83074**
Funel, Agostino *see* **Di Grezia, Elisabetta et al., 2005a:83074**
García-Compeán, Hugo (*with* Obregón, Octavio; Ramírez Romero, Cupatitzio; Sabido, M.) Noncommutative self-dual gravity. (English summary) **2005e:83059**
— (*with* Obregón, Octavio; Ramírez Romero, Cupatitzio; Sabido, M.) Noncommutative topological theories of gravity. (English summary) **2005b:83073**
Grumiller, Daniel (*with* Kummer, Wolfgang; Vasilevich, D. V.) A note on the triviality of κ-deformations of gravity. (English, Russian and Ukrainian summaries) **2005g:83084**
Kerner, Richard *see* **Serié, Emmanuel et al., 2005b:83075**
Kim, Hungsoo (*with* Lee, Gil Sang; Lee, Hyung Won; Myung, Yun Soo) Second-order corrections to noncommutative spacetime inflation. (English summary)
Kummer, Wolfgang *see* **Grumiller, Daniel et al., 2005g:83084**
Lee, Gil Sang *see* **Kim, Hungsoo et al.**
Lee, Hyung Won *see* **Kim, Hungsoo et al.**
Li, Miao[1] Macroscopic black holes, microscopic black holes and noncommutative membrane. (English summary) **2005b:83074**
deLyra, Jorge L. *see* **de Albuquerque, Luiz C., 2005g:83083**
Maceda, M. (*with* Madore, John; Manousselis, Pantelis; Zoupanos, George) Can non-commutativity resolve the big-bang singularity? (English summary) **2005c:83048**
— (*with* Madore, John) On the resolution of space-time singularities. II. (English summary) **2005k:83100**
Madore, John *see* **Maceda, M. et al., 2005c:83048** *and* **2005k:83100**
Mangano, Gianpiero *see* **Di Grezia, Elisabetta et al., 2005a:83074**
Manousselis, Pantelis *see* **Maceda, M. et al., 2005c:83048**
Masson, Thierry *see* **Serié, Emmanuel et al., 2005b:83075**
Miele, Gennaro *see* **Di Grezia, Elisabetta et al., 2005a:83074**

Myung, Yun Soo *see* **Kim, Hungsoo et al.**
Nair, V. P. *see* **Abe, Yasuhiro, 2005d:83090**
Obregón, Octavio *see* **García-Compeán, Hugo et al., 2005b:83073** *and* **2005e:83059**
Parfënov, G. N. On a unique Einstein tensor condition in general relativity. (English summary)
Ramírez Romero, Cupatitzio *see* **García-Compeán, Hugo et al., 2005b:83073** *and* **2005e:83059**
Romero, Juan M. (*with* Zamora, Adolfo) Snyder noncommutative space-time from two-time physics. (English summary) **2005i:83084**
— (*with* Santiago, J. A.) Cosmological constant and noncommutativity: a Newtonian point of view. (English summary) **2005k:83101**
Sabido, M. *see* **García-Compeán, Hugo et al., 2005b:83073** *and* **2005e:83059**
Santiago, J. A. *see* **Romero, Juan M., 2005k:83101**
Serié, Emmanuel (*with* Masson, Thierry; Kerner, Richard) Non-abelian generalization of Born-Infeld theory inspired by noncommutative geometry. (English summary) **2005b:83075**
Tsujikawa, Shinji *see* **Calcagni, Gianluca, 2005m:83085**
Vasilevich, D. V. *see* **Grumiller, Daniel et al., 2005g:83084**
Wali, Kameshwar C. Matter fields on a two-sheeted space-time. (English summary) **2005k:83102**
Zamora, Adolfo *see* **Romero, Juan M., 2005i:83084**
Zoupanos, George *see* **Maceda, M. et al., 2005c:83048**

Items with secondary classifications in 83C65

Agostini, Alessandra (*with* Amelino-Camelia, Giovanni; D'Andrea, Francesco) Hopf-algebra description of noncommutative-space-time symmetries. (English summary) **2005k:81128**
Amelino-Camelia, Giovanni *see* **Agostini, Alessandra et al., 2005k:81128**
D'Andrea, Francesco *see* **Agostini, Alessandra et al., 2005k:81128**
Hawkins, Eli Noncommutative rigidity for physicists. (English summary) **2005d:81204**
Klemm, Dietmar (*with* Penati, Silvia; Tamassia, Laura) Non(anti)commutative superspace. (English summary) **2005c:81231**
Li, Xin-Zhou *see* **Liu, Dao-jun, 2005i:83140**
Liu, Dao-jun (*with* Li, Xin-Zhou) Cosmological perturbations and noncommutative tachyon inflation. (English summary) **2005i:83140**
Moretti, Valter Aspects of noncommutative Lorentzian geometry for globally hyperbolic spacetimes. (English summary) **2005c:58012**
Penati, Silvia *see* **Klemm, Dietmar et al., 2005c:81231**
Rivelles, Victor O. Supersymmetry and gravity in noncommutative field theories. (English summary) **2005g:81333**
Schücker, Thomas Noncommutative geometry and the standard model. (English summary) **2005m:81344**
Tamassia, Laura *see* **Klemm, Dietmar et al., 2005c:81231**

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Andersson, Lars Åke (*with* van Elst, Henk; Uggla, Claes) Gowdy phenomenology in scale-invariant variables. (English summary) **2005d:83091**
Barrow, John D. Sudden future singularities. (English summary) **2005j:83074**
— More general sudden singularities. (English summary) **2005h:83140**
— *see also* **Debnath, Ujjal et al., 2005g:83086**
Behrndt, Klaus (*with* Pössel, Markus) Chronological structure of a Gödel type universe with negative cosmological constant. (English summary) **2005g:83085**
Berger, Beverly K. Hunting local mixmaster dynamics in spatially inhomogeneous cosmologies. (English summary) **2005f:83066**
Casadio, Roberto (*with* Fabi, Sergio; Harms, Benjamin) Electromagnetic waves around dilatonic stars and naked singularities. (English summary) **2005h:83141**
Chae, Myeongju (*with* Chruściel, Piotr T.) On the dynamics of Gowdy space-times. (English summary) **2005i:83085**
Chakraborty, Subenoy *see* **Debnath, Ujjal et al., 2005f:83067** *and* **2005g:83086**
Chruściel, Piotr T. (*with* Lake, Kayll) Cauchy horizons in Gowdy spacetimes. (English summary) **2005d:83092**
— *see also* **Chae, Myeongju, 2005i:83085**
Dadhich, Naresh *see* **Joshi, Pankaj S. et al., 2005h:83147**
Dafermos, Mihalis Stability and instability of the Reissner-Nordström Cauchy horizon and the problem of uniqueness in general relativity. (English summary) **2005k:83103**
(Dain, Sergio) *see* **Errata: "Trapped surfaces as boundaries for the constraint equations", 2005j:83076**
Debnath, Ujjal (*with* Chakraborty, Subenoy; Barrow, John D.) Quasi-spherical gravitational collapse in any dimension. (English summary) **2005g:83086**
— (*with* Chakraborty, Subenoy) Gravitational collapse in higher dimensional space-time. (English summary) **2005f:83067**
De Lorenci, V. A. (*with* Moreira, E. S., Jr.) Spinning strings, cosmic dislocations, and chronology protection. (English summary) **2005h:83142**
Ellis, George F. R. Cosmological perturbations and singularities. (English summary) (*see* **2005j:83002**)
van Elst, Henk *see* **Andersson, Lars Åke et al., 2005d:83091**
Fabi, Sergio *see* **Casadio, Roberto et al., 2005h:83141**
Fernández-Jambrina, L. (*with* Lazkoz Saez, R.) Geodesic behavior of sudden future singularities. (English summary) **2005i:83086**
Ford, L. H. The classical singularity theorems and their quantum loopholes. (English summary) **2005a:83075**
Frolov, Andrei V. (*with* Pen, Ue-Li) Naked singularity in the global structure of critical collapse spacetimes. (English summary) **2005g:83087**
— Is it really naked? On cosmic censorship in string theory. (English summary) **2005h:83143**
Garay, L. J. *see* **González-Díaz, Pedro F., 2005a:83076**
García-Parrado, Alfonso (*with* Senovilla, José M. M.) General study and basic properties of causal symmetries. (English summary) **2005e:83060**
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Errata:

"Trapped surfaces as boundaries for the constraint equations" Corrigendum: "Trapped surfaces as boundaries for the constraint equations" [Classical Quantum Gravity **21** (2004), no. 2, 555–573; MR2030884 (2004m:83060)] by S. Dain. **2005j:83076**

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Takahashi, Tomohiko *see* **Kenmoku, M. et al., 2005j:83078**
Tiglio, Manuel (*with* Lehner, Luis; Neilsen, David W.) 3D simulations of Einstein's equations: symmetric hyperbolicity, live gauges, and dynamic control of the constraints. (English summary) **2005i:83091**
Tomimura, N. A. *see* **Miguelote, A. Y. et al., 2005e:83068**
Toppan, Francesco The $N=2$ heavenly equation. (English summary) **2005i:83092**
Uchida, Satoko *see* **Kenmoku, M. et al., 2005j:83078**
Vanzo, Luciano *see* **Pinamonti, Nicola, 2005d:83098**
Vasilić, M. *see* **Blagojević, M., 2005c:83051** *and* **2005c:83052**
Wallet, J. C. *see* **Chandelier, F. et al., 2005h:83149**
Wang, An Zhong *see* **Hirschmann, Eric W. et al., 2005c:83053** *and* **Miguelote, A. Y. et al., 2005e:83068**
Wu, Yumei *see* **Hirschmann, Eric W. et al., 2005c:83053**
Yoon, Myung Seok *see* **Kim, Won Tae et al., 2005h:83152** *and* **2005h:83153**
Zanelli, Jorge *see* **Ayón-Beato, Eloy et al., 2005k:83105**
Zaslavskii, O. B. Two-dimensional dilaton gravity and spacetimes with finite curvature at the horizon away from the Hawking temperature. (English and Russian summaries) **2005i:83093**
— Two-dimensional quantum-corrected black hole in a finite size cavity. (English summary) **2005e:83070**
Zubkov, M. A. 2D R^2 gravity in weak coupling limit. (English summary) **2005e:83071**

Items with secondary classifications in 83C80

Ambjørn, Jan (*with* Jurkiewicz, Jerzy Władysław; Loll, R.) Renormalization of 3d quantum gravity from matrix models. (English summary) **2005k:83036**
Anselmi, Damiano Finiteness of quantum gravity coupled with matter in three spacetime dimensions. (English summary) **2005d:83038**
— Renormalization of quantum gravity coupled with matter in three dimensions. (English summary) **2005d:83039**
Bandelloni, G. (*with* Lazzarini, S.) Induced quantum gravity on a Riemann surface. (English summary) **2005a:81089**
Barros, Manuel (*with* Ferrández, Angel; Javaloyes Victoria, Miguel A.; Lucas, Pascual) Relativistic particles with rigidity and torsion in $D=3$ spacetimes. (English summary) **2005m:83020**
Belich, H., Jr. (*with* Ferreira, M. M., Jr.; Helayël-Neto, J. A.; Orlando, M. T. D.) Erratum: "Dimensional reduction of a Lorentz- and CPT-violating Maxwell-Chern-Simons model" [Phys. Rev. D (3) **67** (2003), no. 12, 125011, 10 pp; MR2010222 (2004h:81143)]. **2005g:81192**
Benedetti, Riccardo About a quantum field theory for 3D gravity. (English summary) **2005g:83044**
Bialas, P. (*with* Petersson, B.; Thorleifsson, G.) The weak-coupling limit of 3D simplicial quantum gravity. (English summary)
Bogacz, L. The Dirac operator coupled to 2D quantum gravity. (English summary) **2005k:83048**
Bracken, Paul An integrable model with soliton solutions which have applications to two-dimensional gravity. (English summary) **2005k:81112**
Calogero, Simone (*with* Lee, Hayoung) The non-relativistic limit of the Nordström-Vlasov system. (English summary) **2005f:83044**
del Campo, Sergio *see* **García Díaz, Alberto et al., 2005b:83021**
Cataldo, Mauricio *see* **García Díaz, Alberto et al., 2005b:83021**
Corichi, Alejandro (*with* Gomberoff, Andres) Black holes in de Sitter space: masses, energies, and entropy bounds. (English summary) **2005i:83060**
Danielsson, Ulf H. (*with* Gregory, James P.; Olsson, Martin E.; Rajan, Peter; Vonk, Marcel) Type-0A 2D black hole thermodynamics and the deformed matrix model. (English summary) **2005d:83132**
Dowker, Fay (*with* Herbauts, Isabelle) Simulating causal wavefunction collapse models. (English summary) **2005d:83029**
Easson, Damien A. Hawking radiation of nonsingular black holes in two dimensions. (English summary) **2005a:83057**
Ferrández, Angel *see* **Barros, Manuel et al., 2005m:83020**
Ferreira, M. M., Jr. *see* **Belich, H., Jr. et al., 2005g:81192**
Freidel, Laurent (*with* Louapre, David) Nonperturbative summation over 3D discrete topologies. (English summary) **2005g:83037**
Gambini, Rodolfo (*with* Pullin, Jorge) Consistent discretization and loop quantum geometry. (English summary) **2005k:83049**
García Díaz, Alberto (*with* Cataldo, Mauricio; del Campo, Sergio) Relationship between $2+1$ and $3+1$ Friedmann-Robertson-Walker cosmologies. (English summary) **2005b:83021**
Garcia-Islas, J. Manuel $(2+1)$-dimensional quantum gravity, spin networks and asymptotics. (English summary) **2005b:83036**
Giacomini, Alex Poisson algebra of diffeomorphism generators in a spacetime containing a bifurcation. (English summary) **2005j:83060**
Giveon, Amit (*with* Sever, Amit) Strings in a 2-d extremal black hole. (English summary) **2005k:83157**
Gomberoff, Andres *see* **Corichi, Alejandro, 2005i:83060**
Gregory, James P. *see* **Danielsson, Ulf H. et al., 2005d:83132**
Grumiller, Daniel (*with* Kummer, Wolfgang; Vasilevich, D. V.) A note on the triviality of κ-deformations of gravity. (English, Russian and Ukrainian summaries) **2005g:83084**
Hartmann, Bruno (*with* Wiśniewski, Jacek) Generalized Wick transform in dimensionally reduced gravity. (English summary) **2005a:83040**
He, Han (*with* Ma, Yongge; Yang, Xue Jun[1]) Actions for vacuum Einstein's equation with a Killing symmetry. (English summary) **2005b:83006**
Helayël-Neto, J. A. *see* **Belich, H., Jr. et al., 2005g:81192**
Herbauts, Isabelle *see* **Dowker, Fay, 2005d:83029**
Israël, Dan (*with* Kounnas, Costas; Pakman, Ari; Troost, Jan) The partition function of the supersymmetric two-dimensional black hole and little string theory. (English summary) **2005g:81278**
Janke, Wolfhard *see* **Johnston, Desmond A. et al., 2005d:82012**
Javaloyes Victoria, Miguel A. *see* **Barros, Manuel et al., 2005m:83020**
Johnston, Desmond A. (*with* Janke, Wolfhard; Kenna, R.) Information geometry, one, two, three (and four). (English summary) **2005d:82012**
Jurkiewicz, Jerzy Władysław *see* **Ambjørn, Jan et al., 2005k:83036**
Kenna, R. *see* **Johnston, Desmond A. et al., 2005d:82012**
Kounnas, Costas *see* **Israël, Dan et al., 2005g:81278**

Krasnov, Kirill On holomorphic factorization in asymptotically AdS 3D gravity. (English summary) **2005c:81191**
Kummer, Wolfgang *see* **Grumiller, Daniel et al., 2005g:83084**
Lazzarini, S. *see* **Bandelloni, G., 2005a:81089**
Lee, Hayoung *see* **Calogero, Simone, 2005f:83044**
Lepe, Samuel (*with* Saavedra, Joel) Quasinormal modes, superradiance and area spectrum for $2+1$ acoustic black holes. (English summary) **2005m:83070**
Livine, Etera R. (*with* Oeckl, Robert) Three-dimensional quantum supergravity and supersymmetric spin foam models. (English summary) **2005d:83050**
Loll, R. (*with* Westra, W.) Space-time foam in 2D and the sum over topologies. (English summary) **2005j:83038**
— *see also* **Ambjørn, Jan et al., 2005k:83036**
Louapre, David *see* **Freidel, Laurent, 2005g:83037**
Lucas, Pascual *see* **Barros, Manuel et al., 2005m:83020**
Ma, Yongge *see* **He, Han et al., 2005b:83006**
Martínez Alonso, Luis (*with* Medina Reus, Elena) Solutions of the dispersionless Toda hierarchy constrained by string equations. (English summary) **2005g:37141**
Matyjasek, Jerzy (*with* Zaslavskii, O. B.) Extremal limit for charged and rotating $2+1$-dimensional black holes and Bertotti-Robinson geometry. (English summary) **2005f:83058**
Medina Reus, Elena *see* **Martínez Alonso, Luis, 2005g:37141**
Moretti, Valter (*with* Pinamonti, Nicola) The interplay of conformal invariance, quantum field theory near the horizon of a 2D-black hole and holography. (English summary) **2005f:81213**
Nazarenko, A. V. Quantization of reduced Chern-Simons gravity with a source. (English summary) **2005k:81291**
Nitti, Francesco (*with* Porrati, Massimo) Hidden $\mathrm{sl}(2,\mathbb{R})$ symmetry in 2d CFTs and the wave function of 3d quantum gravity. (English summary) **2005b:81176**
Oeckl, Robert *see* **Livine, Etera R., 2005d:83050**
Olsson, Martin E. *see* **Danielsson, Ulf H. et al., 2005d:83132**
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Pakman, Ari *see* **Israël, Dan et al., 2005g:81278**
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Pinamonti, Nicola *see* **Moretti, Valter, 2005f:81213**
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Saavedra, Joel *see* **Lepe, Samuel, 2005m:83070**
Sever, Amit *see* **Giveon, Amit, 2005k:83157**
Strominger, Andrew (*with* Thompson, David Mattoon) Quantum Bousso bound. (English summary) **2005j:83070**
Thompson, David Mattoon *see* **Strominger, Andrew, 2005j:83070**
Thorleifsson, G. *see* **Bialas, P. et al.**
Troost, Jan *see* **Israël, Dan et al., 2005g:81278**
Vasilevich, D. V. *see* **Grumiller, Daniel et al., 2005g:83084**
Vonk, Marcel *see* **Danielsson, Ulf H. et al., 2005d:83132**
Westra, W. *see* **Loll, R., 2005j:83038**
Wiśniewski, Jacek *see* **Hartmann, Bruno, 2005a:83040**
Yang, Xue Jun[1] *see* **He, Han et al., 2005b:83006**
Yogendran, K. P. D-branes in 2D Lorentzian black hole. (English summary) **2005k:83170**
Zaslavskii, O. B. *see* **Matyjasek, Jerzy, 2005f:83058**
Zinn-Justin, Paul The asymmetric $ABAB$ matrix model. (English summary) **2005a:82043**

83C99 None of the above, but in this section

Anderson, Edward Strong-coupled relativity without relativity. (English summary) **2005a:83080**
Barreda, M. (*with* Olivert, J.) Relative orientation of coordinate systems in general relativity. (English summary) **2005h:83156**
Bini, Donato On the geometrization of inertial forces in relativity. (English summary) **2005g:83092**
Boughn, Stephen P. *see* **Pešić, P. D., 2005b:83084**
Catania, D. (*with* Georgiev, Vladimir S.) Semilinear wave equation in Schwarzschild metric. (English summary) **2005m:83096**
Foertsch, Thomas (*with* Hasse, Wolfgang; Perlick, Volker) Inertial forces and photon surfaces in arbitrary spacetimes. (English summary) **2005f:83075**
Gabadadze, Gregory (*with* Grisa, Luca) Lorentz-violating massive gauge and gravitational fields. (English summary) **2005m:83097**
García-Godínez, Patricia *see* **Silva-Ortigoza, Gilberto, 2005h:83160**
Georgiev, Vladimir S. *see* **Catania, D., 2005m:83096**
Grisa, Luca *see* **Gabadadze, Gregory, 2005m:83097**
Hasse, Wolfgang *see* **Foertsch, Thomas et al., 2005f:83075**
Henry-Couannier, Frederic Discrete symmetries and general relativity, the dark side of gravity. (English summary) **2005m:83098**
Hernández-Pastora, J. L. (*with* Manko, O. V.; Manko, V. S.; Martín, Jésus; Ruiz, Eduardo) Equilibrium states in the quadruple-Kerr solution. (English summary) **2005a:83081**
Le Poncin-Lafitte, Christophe (*with* Linet, Bernard; Teyssandier, Pierre) World function and time transfer: general post-Minkowskian expansions. (English summary) **2005i:83094**
Linet, Bernard *see* **Le Poncin-Lafitte, Christophe et al., 2005i:83094**
Llosa, J. (*with* Soler Mallol, Daniel) Reference frames and rigid motions in relativity. (English summary) **2005h:83157**
Manko, O. V. *see* **Hernández-Pastora, J. L. et al., 2005a:83081**
Manko, V. S. *see* **Hernández-Pastora, J. L. et al., 2005a:83081**
Martín, Jésus *see* **Hernández-Pastora, J. L. et al., 2005a:83081**
Mizushima, Masataka Einstein-Schwarzschild force (speed of light and g of deuteron). (English summary) (*see* **2005i:53001**)
Nieto, J. Antonio Linearized gravity as a gauge theory. (English summary) **2005h:83158**
Noda, Hujio *see* **Shao, D. et al., 2005g:83094**
Olivert, J. *see* **Barreda, M., 2005h:83156**
Perlick, Volker *see* **Foertsch, Thomas et al., 2005f:83075**
Pešić, P. D. (*with* Boughn, Stephen P.) The Weyl-Cartan theorem and the naturalness of general relativity. (English summary) **2005b:83084**
Pitts, J. Brian (*with* Schieve, William C.) Null cones and Einstein's equations in Minkowski spacetime. (English summary) **2005g:83093**
Prikas, Athanasios Einstein-Yang-Mills equations in the presence of q-stars. (English summary) **2005h:83159**
Ruiz, Eduardo *see* **Hernández-Pastora, J. L. et al., 2005a:83081**
Schieve, William C. *see* **Pitts, J. Brian, 2005g:83093**
Shao, Chang Gui *see* **Shao, D. et al., 2005g:83094**
Shao, D. (*with* Shao, Liang[2]; Noda, Hujio; Shao, Chang Gui) Some Wilson loops in gravitational metric fields. (English summary) **2005g:83094**
Shao, Liang[2] *see* **Shao, D. et al., 2005g:83094**
Shojai, Ali *see* **Shojai, Fatimah, 2005g:83095**
Shojai, Fatimah (*with* Shojai, Ali) On the relation of Weyl geometry and Bohmian quantum mechanics. (English and Russian summaries) **2005g:83095**
Silva-Ortigoza, Gilberto (*with* García-Godínez, Patricia) Families of null surfaces in three-dimensional Minkowski spacetime and associated differential equations. (Spanish. English and Spanish summaries) **2005h:83160**
Soler Mallol, Daniel *see* **Llosa, J., 2005h:83157**
Sonnino, G. A deeper look at the thermodynamic field equations. (English summary) **2005f:83076**
Szybka, Sebastian J. Chaotic self-similar wave maps coupled to gravity. (English summary) **2005i:83095**
Taylor, J. P. W. Junction conditions at a corner. (English summary) **2005c:83055**
Teyssandier, Pierre *see* **Le Poncin-Lafitte, Christophe et al., 2005i:83094**

Items with secondary classifications in 83C99

Alcubierre, Miguel (*with* González, José Antonio; Salgado, Marcelo) Dynamical evolution of unstable self-gravitating scalar solitons. (English summary) **2005h:83089**
Basini, Giuseppe (*with* Capozziello, Salvatore) A general covariant symplectic structure from conservation laws. (English summary) **2005m:81172**
Brustein, Ram (*with* Yarom, Amos) Thermodynamics and area in Minkowski space: heat capacity of entanglement. (English summary) **2005i:81109**
Calmet, Xavier (*with* Graesser, Michael; Hsu, Stephen D. H.) Minimum length from quantum mechanics and classical general relativity. (English summary) **2005h:81051**
Capovilla, R. (*with* Guven, Jemal; Rojas, Efraín) Hamiltonian dynamics of extended objects. (English summary) **2005h:83013**
Capozziello, Salvatore *see* **Basini, Giuseppe, 2005m:81172**
Chamblin, Andrew (*with* Erlich, Joshua) Holographic Weyl entropy bounds. (English summary) **2005k:83068**
Diamandescu, Ileana (*with* Duma, Adrian) Building super-additive manifolds. (English summary) **2005d:53124**
Dryuma, Valerii S. On Riemann extension of the Schwarzschild metric. (English summary) **2005a:83015**
Duma, Adrian *see* **Diamandescu, Ileana, 2005d:53124**
Edelen, Dominic G. B. Immersions of Einstein-Riemann spacetimes in five-dimensional flat spaces. II. (English summary) **2005k:53113**
Erlich, Joshua *see* **Chamblin, Andrew, 2005k:83068**
Evans, Myron W. The Evans lemma of differential geometry. (English summary) **2005e:58066**
Ferrarese, G. Iterative discontinuities and wave propagation. (English summary) (*see* **2005c:00016**)
Galán, Pablo (*with* Mena Marugán, Guillermo A.) Quantum time uncertainty in a gravity's rainbow formalism. (English summary) **2005i:83038**
González, José Antonio *see* **Alcubierre, Miguel et al., 2005h:83089**
Graesser, Michael *see* **Calmet, Xavier et al., 2005h:81051**
Guven, Jemal *see* **Capovilla, R. et al., 2005h:83013**
Haesen, Stefan (*with* Verstraelen, Leopold) Ideally embedded space-times. (English summary) **2005e:53120**
Hsu, Stephen D. H. *see* **Calmet, Xavier et al., 2005h:81051**
Khusnutdinov, Nail R. Quasiclassical wormholes with a smooth throat. (Russian. Russian summary) **2005d:83100**
Kunzinger, Michael Nonsmooth differential geometry and algebras of generalized functions. (English summary) **2005h:46069**
Magueijo, João (*with* Smolin, Lee) Gravity's rainbow. (English summary) **2005d:83051**
Mena Marugán, Guillermo A. *see* **Galán, Pablo, 2005i:83038**
Padmanabhan, T. Entropy of static spacetimes and microscopic density of states. (English summary) **2005j:83067**
Radu, Eugen[2] (*with* Tchrakian, Tigran D. H.) New axially symmetric Yang-Mills-Higgs solutions with negative cosmological constant. (English summary) **2005k:81174**
Rojas, Efraín *see* **Capovilla, R. et al., 2005h:83013**
Salgado, Marcelo *see* **Alcubierre, Miguel et al., 2005h:83089**
Semenov, Yu. On irreducible partials of the Ricci tensor traceless part in a finite space-time region in general relativity. (English, Russian and Ukrainian summaries) **2005g:53144**
Smolin, Lee *see* **Magueijo, João, 2005d:83051**
Tchrakian, Tigran D. H. *see* **Radu, Eugen[2], 2005k:81174**
Tian, Guihua (*with* Zhao, Zheng[1]) Can an observer really catch up with light? (English summary) **2005f:58011**
Verstraelen, Leopold *see* **Haesen, Stefan, 2005e:53120**
Yamaguchi, Yoshio Quantum mechanics and quantum field theories in the quantized space. I. Basic formalism. (English summary) **2005g:81335**
Yarom, Amos *see* **Brustein, Ram, 2005i:81109**
Zhao, Zheng[1] *see* **Tian, Guihua, 2005f:58011**

83D05 Relativistic gravitational theories other than Einstein's, including asymmetric field theories

Adhao, K. S. (*with* Ghate, H. R.; Khadekar, G. S.; Kondawar, Gopal) Exact solutions of

the field equations in higher dimensional bimetric theory of relativity. (English summary)

Allemandi, Gianluca (*with* Borowiec, Andrzej; Francaviglia, Mauro) Accelerated cosmological models in first-order nonlinear gravity. (English summary) **2005h:83161**

Alvarenga, F. G. (*with* Batista, A. B.; Fabris, J. C.; Marques, G. T.) Quantum modes around a scalar-tensor black hole: breakdown of the normalization conditions. (English and Russian summaries)

Arcos, H. I. (*with* Pereira, J. G.) Torsion and the gravitational interaction. (English summary) **2005g:83096**

Arminjon, Mayeul Gravitational effects on light rays and binary pulsar energy loss in a scalar theory of gravity. (Russian. Russian summary)

Bagchi, Arjun (*with* Rama, S. Kalyana) Cosmology and static spherically symmetric solutions in D-dimensional scalar-tensor theories: some novel features. (English summary) **2005k:83113**

Banerjee, Asit Kumar (*with* Debnath, Ujjal; Chakraborty, Subenoy) Higher dimensional Szekeres' space-time in Brans-Dicke scalar tensor theory. (English summary) **2005i:83096**

Barbero G., J. Fernando (*with* Mena Marugán, Guillermo A.; Villaseñor, Eduardo J. S.) Particles and vacuum for perturbative and nonperturbative Einstein-Rosen gravity. (English summary) **2005h:83162**

Barbour, Julian Scale-invariant gravity: particle dynamics. (English summary) **2005a:83082**

Barros, Adriano Trindade (*with* Romero, C. A.) Gravitomagnetism in Brans-Dicke theory of gravity. (English summary)

Basini, Giuseppe (*with* Bongiorno, Fulvio; Capozziello, Salvatore) Singularity free solutions from scalar-tensor gravity compared with recent cosmological observations. (English summary) **2005h:83163**

Batista, A. B. *see* **Alvarenga, F. G. et al.**

Behera, Harihar (*with* Naik, P. C.) Gravitomagnetic moments and dynamics of Dirac (spin $\frac{1}{2}$) fermions in flat space-time Maxwellian gravity. (English summary) **2005f:83077**

Bezerra, Valdir B. (*with* Ferreira, Cristine N.; Fonseca-Neto, J. B.; Rodrigues Sobreira, A. A.) Gravitational field around a timelike current-carrying screwed cosmic string in scalar-tensor theories. (English summary) **2005a:83083**

— (*with* Ferreira, Cristine N.; Helayël-Neto, J. A.) Lorentz-breaking effects in scalar-tensor theories of gravity. (English summary) **2005k:83114**

Bonanno, Alfio (*with* Esposito, Giampiero; Rubano, Claudio) Arnowitt-Deser-Misner gravity with variable G and Λ and fixed-point cosmologies from the renormalization group. (English summary) **2005f:83078**

Bongiorno, Fulvio *see* **Basini, Giuseppe et al., 2005h:83163**

Borowiec, Andrzej *see* **Allemandi, Gianluca et al., 2005h:83161**

von Borzeszkowski, Horst-Heino (*with* Treder, Hans-Jürgen) On metric and matter in unconnected, connected, and metrically connected manifolds. (English summary) **2005m:83099**

Bose, R. N. *see* **Modak, B. et al., 2005m:83108**

Bronnikov, K. A. (*with* Melnikov, V. N.; Novello, Mario) Possible time variations of G in scalar-tensor theories of gravity. (English and Russian summaries)

— (*with* Grinyok, S. V.) Conformal continuations and wormhole instability in scalar-tensor gravity. (English and Russian summaries)

Cadoni, Mariano An Einstein-like theory of gravity with a non-Newtonian weak-field limit. (English summary)

Calogero, Simone (*with* Rein, Gerhard) Global weak solutions to the Nordström-Vlasov system. (English summary) **2005h:83164**

Capelas de Oliveira, E. *see* **Rodrigues, Waldyr A., Jr., 2005m:83110**

Capozziello, Salvatore *see* **Basini, Giuseppe et al., 2005h:83163**

Cebeci, H. (*with* Dereli, Tekin) Axi-dilaton gravity in $D \geq 4$ dimensional space-times with torsion. (English summary) **2005j:83080**

Chakraborty, Subenoy *see* **Banerjee, Asit Kumar et al., 2005i:83096**

Chee, G. Y. (*with* Guo, Yong Xin) Symmetric hyperbolic system in self-dual teleparallel gravity. (English summary) **2005h:83165**

Chiba, Takeshi Generalized gravity and a ghost. (English summary) **2005m:83100**

Comelli, Denis (*with* Dolgov, Alexander) Determinant-gravity: cosmological implications. (English summary) **2005h:83166**

— Born-Infeld gravity. (English summary)

DeBenedictis, A. *see* **Furey, N., 2005m:83103**

Debnath, Ujjal *see* **Banerjee, Asit Kumar et al., 2005i:83096**

Deo, S. D. Nil contribution of cosmic strings to plane symmetric space-time in bimetric relativity. (English summary)

— (*with* Thengane, K. D.) Existence of $[\sqrt{x^2+y^2+z^2}-t]$-type plane gravitational wave in bimetric relativity. (English summary) **2005g:83097**

— *see also* **Mahurpawar, V.**

Dereli, Tekin *see* **Cebeci, H., 2005j:83080**

Dolgov, Alexander *see* **Comelli, Denis, 2005h:83166**

Esposito, Giampiero *see* **Bonanno, Alfio et al., 2005f:83078**

Ezawa, Yasuo (*with* Iwasaki, H.; Ohkuwa, Y.; Uegaki, T.; Yamada, N.; Yano, Tadashi) Interpretation of the first-order formalism of $f(R)$-type gravity and the corresponding second-order formalism. (English summary) **2005m:83101**

Fabris, J. C. *see* **Alvarenga, F. G. et al.**

Faraoni, Valerio de Sitter attractors in generalized gravity. (English summary) **2005h:83167**

— Singularities in scalar-tensor gravity. (English summary) **2005h:83168**

— Negative energy and stability in scalar-tensor gravity. (English summary)

— Phase space geometry in scalar-tensor cosmology. (English summary) **2005m:83102**

Ferreira, Cristine N. *see* **Bezerra, Valdir B. et al., 2005a:83083** *and* **2005k:83114**

Flanagan, Éanna É. The conformal frame freedom in theories of gravitation. Reply to comment: "On the viability of the Palatini form of $1/R$ gravity" [Classical Quantum Gravity **21** (2004), no. 15, 3813–3816; MR2079946 (2005e:83072b)] by D. N. Vollick. (English summary) **2005e:83072c**

— Palatini form of $1/R$ gravity. (English summary) **2005e:83072a**

— Erratum: "Palatini form of $1/R$ gravity" [Phys. Rev. Lett. **92** (2004), no. 7, 071101, 4 pp.; MR2069630 (2005e:83072a)]. **2005j:83081**

— *see also* **Vollick, Dan N., 2005e:83072b**

Fonseca-Neto, J. B. *see* **Bezerra, Valdir B. et al., 2005a:83083**

Francaviglia, Mauro *see* **Allemandi, Gianluca et al., 2005h:83161**

Frolov, Boris N. On foundations of Poincaré-gauge theory of gravity. (English and Russian summaries) **2005j:83082**

Furey, N. (*with* DeBenedictis, A.) Wormhole throats in R^m gravity. (English summary) **2005m:83103**

Galiakhmetov, A. M. Exact solutions in Einstein-Cartan cosmology with scalar field. (English and Russian summaries) **2005m:83104**

Ghate, H. R. *see* **Adhao, K. S. et al.**

Ghose, A. *see* **Modak, B. et al., 2005m:83108**

Gokhroo, M. K. (*with* Nagar, Atulya K.; Prajapat, D. L.) Anisotropic spheres in Einstein Cartan theory. (English summary)

Gorbatenko, M. V. Some consequences of the conformally invariant generalization of Einstein's equations. (English summary) **2005k:83115**

Grinyok, S. V. *see* **Bronnikov, K. A.**

Gripaios, Ben M. Modified gravity via spontaneous symmetry breaking. (English summary) **2005h:83169**

Gunzig, E. (*with* Saa, Alberto) Conformal quantum effects and the anisotropic singularities of scalar-tensor theories of gravity. (English summary)

Guo, Han-Ying *see* **Yu, Tian[1] et al., 2005k:83120**

Guo, Yong Xin *see* **Chee, G. Y., 2005h:83165**

Helayël-Neto, J. A. *see* **Bezerra, Valdir B. et al., 2005k:83114**

Huang, Chao-Guang *see* **Yu, Tian[1] et al., 2005k:83120**

Iwasaki, H. *see* **Ezawa, Yasuo et al., 2005m:83101**

Kalam, M. *see* **Rahaman, F. et al.**

Khadekar, G. S. Exact solutions for charged sphere in Rosen's bimetric theory of gravitation. (English summary)

— *see also* **Adhao, K. S. et al.**

Khrapko, R. I. Classical spin in space with and without torsion. (English and Russian summaries) **2005j:83083**

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Leclerc, Michel Teleparallel limit of Poincaré gauge theory. (English summary) **2005i:83097**

Lee, Byung Joo *see* **Lee, Tae Hoon, 2005f:83079**

Lee, Tae Hoon (*with* Lee, Byung Joo) Scalar-tensor gravity coupled to a global monopole and flat rotation curves. (English summary) **2005f:83079**

Macías, Alfredo Black holes in metric-affine gravity. (English and Russian summaries) **2005m:83105**

Mahato, Prasanta de Sitter group and Einstein-Hilbert Lagrangian. (English summary) **2005i:83098**

Mahurpawar, V. (*with* Deo, S. D.) n-dimensional static plane symmetric space-time with cosmic strings in bimetric relativity. (English summary)

— (*with* Deo, S. D.) Five dimensional static plane symmetric space-time with cosmic strings in bimetric relativity. (English summary)

Marques, G. T. *see* **Alvarenga, F. G. et al.**

Melnikov, V. N. *see* **Bronnikov, K. A. et al.**

Mena Marugán, Guillermo A. *see* **Barbero G., J. Fernando et al., 2005h:83162**

Meng, Xin-He (*with* Wang, Peng[2]) Palatini formulation of modified gravity with squared scalar curvature. (English summary)

— (*with* Wang, Peng[2]) Palatini formulation of the R^{-1}-modified gravity with an additional squared scalar curvature term. (English summary) **2005k:83116**

— (*with* Wang, Peng[2]) Palatini formulation of modified gravity with squared scalar curvature. (English summary) **2005m:83106**

Mielke, Eckehard W. (*with* Rincón Maggiolo, Alí A.) Duality in Yang's theory of gravity. (English summary) **2005m:83107**

Modak, B. (*with* Ghose, A.; Bose, R. N.) Noether symmetry in the higher order gravity theory. (English summary) **2005m:83108**

— *see also* **Sanyal, A. K. et al., 2005m:83111**

Mosna, R. A. (*with* Pereira, J. G.) Some remarks on the coupling prescription of teleparallel gravity. (English summary) **2005h:83170**

Nagar, Atulya K. *see* **Gokhroo, M. K. et al.**

Naik, P. C. *see* **Behera, Harihar, 2005f:83077**

Nojiri, Shin'ichi (*with* Odintsov, Sergei D.) Modified gravity with ln R terms and cosmic acceleration. (English summary)

Novello, Mario *see* **Bronnikov, K. A. et al.**

Obukhov, Yu. N. (*with* Vargas, T.) Gödel type solution in teleparallel gravity. English summary) **2005d:83099**

Odintsov, Sergei D. *see* **Nojiri, Shin'ichi**

Ohkuwa, Y. *see* **Ezawa, Yasuo et al., 2005m:83101**

Oprişan, C. D. (*with* Zet, G.) Solutions of the de Sitter gauge theory. (English summary) **2005m:83109**

Pandey, Sada Nand On a higher derivative gravity theory. (English summary) **2005a:83084**

Pereira, J. G. *see* **Arcos, H. I., 2005g:83096** *and* **Mosna, R. A., 2005h:83170**

Pervushin, V. N. (*with* Proskurin, Denis) Conformal general relativity. (English summary)

Piedipalumbo, E. *see* **Sanyal, A. K. et al., 2005m:83111**

Pireaux, Sophie Light deflection in Weyl gravity: critical distances for photon paths. (English summary) **2005a:83085**

Prajapat, D. L. *see* **Gokhroo, M. K. et al.**

Prikas, Athanasios Einstein-Yang-Mills equations in the presence of q-stars in scalar-tensor gravitational theories. (English summary) **2005k:83117**

Proskurin, Denis *see* **Pervushin, V. N.**

Rahaman, F. (*with* Kalam, M.; Kumar Bera, Jayanta) Homogeneous Biachi-I model in Lyra geometry. (English summary)

Rama, S. Kalyana *see* **Bagchi, Arjun, 2005k:83113**

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Rincón Maggiolo, Alí A. *see* **Mielke, Eckehard W., 2005m:83107**

Rodrigues, Waldyr A., Jr. (*with* Capelas de Oliveira, E.) Clifford valued differential forms, and some issues in gravitation, electromagnetism and "unified" theorems. (English summary) **2005m:83110**

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Saa, Alberto *see* **Gunzig, E.**
Sahoo, B. K. (*with* Singh, Lambodar Prasad) Gravitational waves in generalised Brans-Dicke theory. (English summary)
Sanyal, A. K. (*with* Modak, B.; Rubano, Claudio; Piedipalumbo, E.) Noether symmetry in the higher order gravity theory. (English summary) **2005m:83111**
Schimd, Carlo (*with* Uzan, Jean-Philippe; Riazuelo, Alain) Weak lensing in scalar-tensor theories of gravity. (English summary) **2005m:83112**
Shaido, Yulia A. (*with* Sugamoto, Akio) Accelerating cosmology in modified gravity with scalar field. (English summary) **2005m:83113**
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Soussa, M. E. (*with* Woodard, Richard) The force of gravity from a Lagrangian containing inverse powers of the Ricci scalar. (English summary) **2005b:83085**
Sugamoto, Akio *see* **Shaido, Yulia A., 2005m:83113**
Tartaglia, Angelo Space-time defects as a source of curvature and torsion. (English summary) **2005m:83114**
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Treder, Hans-Jürgen *see* **von Borzeszkowski, Horst-Heino, 2005m:83099**
Tucker, Robin W. Classical field-particle dynamics in space-time geometries. (English summary) **2005j:83084**
Uegaki, T. *see* **Ezawa, Yasuo et al., 2005m:83101**
Uzan, Jean-Philippe *see* **Schimd, Carlo et al., 2005m:83112**
Vargas, T. The energy of the universe in teleparallel gravity. (English summary) **2005b:83086**
— *see also* **Obukhov, Yu. N., 2005d:83099**
Villaseñor, Eduardo J. S. *see* **Barbero G., J. Fernando et al., 2005h:83162**
Vollick, Dan N. On the viability of the Palatini form of $1/R$ gravity. Comment on: "Palatini form of $1/R$ gravity" [Phys. Rev. Lett. **92** (2004), no. 7, 071101, 4 pp.; MR2069630 (2005e:83072a)] by É. É. Flanagan. (English summary) **2005e:83072b**
— On the Dirac field in the Palatini form of $1/R$ gravity. (English summary) **2005k:83118**
— *see also* **Flanagan, Éanna É., 2005e:83072c**
Wang, Peng[2] *see* **Meng, Xin-He, 2005k:83116** *and* **2005m:83106**
Wohlfarth, Mattias N. R. Gravity à la Born-Infeld. (English summary) **2005a:83086**
— Corrigendum: "Gravity à la Born-Infeld" [Classical Quantum Gravity **21** (2004), no. 8, 1927–1939; MR2053848 (2005a:83086)]. **2005g:83098**
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— Charged perfect fluid configurations with a dilaton field. (English summary) **2005k:83119**
Yu, Tian[1] (*with* Guo, Han-Ying; Huang, Chao-Guang; Xu, Zhan; Zhou, Bin[4]) Mechanics and Newton-Cartan-like gravity on the Newton-Hooke space-time. (English summary) **2005k:83120**
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Zhou, Bin[4] *see* **Yu, Tian[1] et al., 2005k:83120**

Items with secondary classifications in 83D05

Accioly, Antonio (*with* Blas Achic, H. S.) Merging higher derivative gravity and quantum mechanics. (English summary) **2005b:83049**
Acquaviva, Viviana (*with* Baccigalupi, Carlo; Perrotta, Francesca) Weak lensing in generalized gravity theories. (English summary)
Anderson, Edward (*with* Dahia, F.; Lidsey, James E.; Romero, C. A.) Embeddings in space-times sourced by scalar fields. (English summary) **2005a:83088**
Baburova, O. V. Modified Friedmann-Lemaître equation for dilaton-spin dark matter in Weyl-Cartan space. (English and Russian summaries) **2005j:83140**
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Bain, Jonathan Theories of Newtonian gravity and empirical indistinguishability. (English summary) **2005i:83001**
Balan, Vladimir (*with* Stavrinos, Panayiotis C.) Finslerian (α, β)-metrics in weak gravitational models. (English summary) **2005c:53021**
— (*with* Stavrinos, Panayiotis C.) Weak linearized gravitational models based on Finslerian (α, β)-metrics. (English summary) **2005j:53025**
Basini, Giuseppe (*with* Capozziello, Salvatore) Quantum cosmology from induced scalar-tensor theory of gravity and the role of conservation laws. (English summary) **2005f:83038**
Blas Achic, H. S. *see* **Accioly, Antonio, 2005b:83049**
Calogero, Simone (*with* Rein, Gerhard) On classical solutions of the Nordström-Vlasov system. (English summary) **2005c:35282**
del Campo, Sergio *see* **Peña, Francisco et al., 2005m:83163**
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Carlip, S. Model-dependence of Shapiro time delay and the 'speed of gravity/speed of light' controversy. (English summary) **2005j:83006**
Cataldo, Mauricio *see* **Peña, Francisco et al., 2005m:83163**
Chugreev, Yu. V. Is the causality principle violated for gravitational waves? (Russian. Russian summary) **2005d:83033**
Dahia, F. *see* **Anderson, Edward et al., 2005a:83088**
Dehghani, M. H. Accelerated expansion of the Universe in Gauss-Bonnet gravity. (English summary) **2005h:83269**
Deruelle, Nathalie (*with* Katz, Joseph[1]; Ogushi, Sachiko) Conserved charges in Einstein Gauss-Bonnet theory. (English summary) **2005b:83043**
Di Menza, Laurent (*with* Lehner, Thierry) The chaotic mixmaster and the suppression of chaos in scalar-tensor cosmologies. (English summary) **2005j:83145**
Gasperini, M. Towards a future singularity? (English summary) **2005i:83138**
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Katz, Joseph[1] *see* **Deruelle, Nathalie et al., 2005b:83043**
Kehagias, Alexandros A. (*with* Kofinas, Georgios) Cosmology with exponential potentials. (English summary) **2005f:83130**
Kelleher, Bryan Scale-invariant gravity: spacetime recovered. (English summary) **2005a:83010**
Khovanskaya, O. S. Black holes in higher curvature gravity. (English and Russian summaries)
Kim, Seung-Kook *see* **Kim, Yong-Wan et al., 2005b:81099**
Kim, Yong-Wan (*with* Lee, Chang-Yeong; Kim, Seung-Kook; Park, Young-Jai) Symplectic embedding of a massive vector-tensor theory with topological coupling. (English summary) **2005b:81099**
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Park, Young-Jai *see* **Kim, Yong-Wan et al., 2005b:81099**
Peña, Francisco (*with* Cataldo, Mauricio; del Campo, Sergio) Curvature in causal BD-type inflationary cosmology. (English summary) **2005m:83163**
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Quraishi, Rehana Relativistic geometries with torsion. **2005c:53099**
Ravndal, Finn Scalar gravitation and extra dimensions. (English summary) **2005g:83111**
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Sahoo, B. K. Spectra of relic gravitons and Brans-Dicke theory. (English summary)
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Shen, Jian Qi The dual curvature tensors and dynamics of gravitomagnetic matter. (English summary) **2005e:83036**
Stavrinos, Panayiotis C. (*with* Ikeda, Satoshi[1]) Finslerian Lie variations for dust-like matter. (English summary) **2005f:53035**
— *see also* **Balan, Vladimir, 2005c:53021** *and* **2005j:53025**
Tryniecki, Dariusz *see* **Matyjasek, Jerzy, 2005e:83050**
Yazadjiev, Stoytcho S. Generating G_2 cosmologies with a perfect fluid in dilaton gravity. (English summary) **2005a:83026**

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Anderson, Edward (*with* Barbour, Julian; Foster, Brendan Z.; Ó Murchadha, Niall) Scale-invariant gravity: geometrodynamics. (English summary) **2005a:83087**
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Ó Murchadha, Niall *see* **Anderson, Edward et al., 2005a:83087**
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Anderson, Edward Strong-coupled relativity without relativity. (English summary) **2005a:83080**
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Hayward, Sean A. (*with* Koyama, Hiroko) How to make a traversable wormhole from a Schwarzschild black hole. (English summary) **2005j:83062**
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Koyama, Hiroko *see* **Hayward, Sean A., 2005j:83062**
Kumar, K. B. Vijaya *see* **Nandi, Kamal Kanti et al., 2005h:83083**
Larsen, Finn (*with* McNees, Robert) Inflation and de Sitter holography. (English summary) **2005a:83144**
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McNees, Robert *see* **Larsen, Finn, 2005a:83144**
Nandi, Kamal Kanti (*with* Zhang, Yuan-Zhong) Traversable Lorentzian wormholes in the vacuum low energy effective string theory in Einstein and Jordan frames. (English summary) **2005h:83242**

— (*with* Zhang, Yuan-Zhong; Kumar, K. B. Vijaya) Semiclassical and quantum field theoretic bounds for traversable Lorentzian stringy wormholes. (English summary) **2005h:83083**

Shestakova, T. P. Quantum-geometrodynamical description of the universe in different reference frames. (English and Russian summaries) **2005i:83045**

Townsend, Paul Kingsley (*with* Wohlfarth, Mattias N. R.) Cosmology as geodesic motion. (English summary) **2005k:83205**

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Abdalla, Elcio *see* **Casali, Adenauer G. et al.**, 2005h:83183

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Alesci, Emanuele (*with* Montani, Giovanni) Phenomenology for an extra dimension from gravitational waves propagation on a Kaluza-Klein space-time. (English summary) **2005k:83121**

Aliev, A. N. (*with* Gümrükçüoğlu, A. E.) Gravitational field equations on and off a 3-brane world. (English summary) **2005h:83172**

Alkalaev, K. B. (*with* Sheĭnkman, O. V.; Vasil′ev, M. A.) On the frame-like formulation of mixed-symmetry massless fields in $(A)dS_d$. (English summary) **2005e:83075**

Allemandi, Gianluca (*with* Francaviglia, Mauro; Raiteri, M.) Charges and energy in Chern-Simons theories and Lovelock gravity. (English summary) **2005c:83057**

de Alwis, S. P. Brane worlds in 5D and warped compactifications in IIB. (English summary) **2005f:83080**

Anderson, Edward (*with* Dahia, F.; Lidsey, James E.; Romero, C. A.) Embeddings in space-times sourced by scalar fields. (English summary) **2005a:83088**

Anderson, Paul R. (*with* Balbinot, Roberto; Fabbri, Alessandro) Cutoff anti-de Sitter space/conformal-field-theory duality and the quest for braneworld black holes. (English summary) **2005k:83122**

Aoyanagi, Koh-suke (*with* Maeda, Kei-ichi) Creation of a brane world with a Gauss-Bonnet term. (English summary)

Apostolopoulos, Pantelis S. (*with* Tetradis, Nikolaos) Brane cosmology with matter in the bulk. I. (English summary) **2005g:83099**

Arapoglu, Savas (*with* Kaya, Ali) D-brane gases and stabilization of extra dimensions in dilaton gravity. (English summary) **2005g:83100**

Arik, Metin (*with* Baykal, A.; Çalık, M. C.; Çiftçi, D.; Delice, Ö.) Einstein spaces in warped geometries in five dimensions. (English summary) **2005d:83102**

Awad, Adel M. Higher-dimensional charged rotating solutions in (A)dS spacetimes. (English summary) **2005e:83076**

Bagger, Jonathan (*with* Redi, Michele) Radion effective theory in the detuned Randall-Sundrum model. (English summary) **2005b:83087**

Bak, Dongsu (*with* Yee, Ho-Ung) Holography, dimensional reduction and the Bekenstein bound. (English summary) **2005c:83058**

Balbinot, Roberto *see* **Anderson, Paul R. et al.**, 2005k:83122

Bander, Myron Expanding cosmologies in brane geometries. (English summary) **2005d:83103**

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Barnaby, Neil (*with* Burgess, Clifford P.; Cline, James M.) Warped reheating in brane-antibrane inflation. (English summary) **2005k:83123**

Barnich, Glenn (*with* Brandt, Friedemann; Claes, K.) Asymptotically anti-de Sitter space-times: symmetries and conservation laws revisited. (English summary) **2005f:83081**

Barrabès, Claude (*with* Frolov, Valery P.; Lesigne, Emmanuel) Geometric inequalities and trapped surfaces in higher dimensional spacetimes. (English summary) **2005m:83116**

Barrow, John D. (*with* Tsagas, Christos G.) Gödel brane. (English summary) **2005d:83104**

Bars, Itzhak (*with* Deliduman, Cemsinan; Pasqua, Andrea; Zumino, Bruno) Hidden twelve-dimensional super Poincaré symmetry in eleven dimensions. (English summary) **2005f:83082**

Battye, Richard A. (*with* Mennim, Andrew) Multiple-scales analysis of cosmological perturbations in brane-worlds. (English summary) **2005i:83099**

Baykal, A. *see* **Arik, Metin et al.**, 2005d:83102

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— (*with* Gomes, Adalto Rodrigues) Bloch brane. (English summary) **2005d:83105**

— (*with* Brito, Francisco A.; Gomes, Adalto Rodrigues) Locally localized gravity and geometric transitions. (English summary) **2005h:83174**

Beckwith, Kris *see* **Gregory, Ruth et al.**, 2005i:83105

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Benini, Riccardo (*with* Kirillov, Aleksandr Albertovich; Montani, Giovanni) Oscillatory regime in the multidimensional homogeneous cosmological models induced by a vector field. (English summary) **2005m:83117**

Bergshoeff, Eric (*with* Collinucci, Andres; Gran, Ulf; Nielsen, Mikkel; Roest, Diederik) Transient quintessence from group manifold reductions or how all roads lead to Rome. (English summary) **2005b:83088**

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Borgman, J. (*with* Ford, L. H.) Effects of quantum stress tensor fluctuations with compact extra dimensions. (English summary) **2005i:83100**

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Børkje, K. *see* **Brevik, Iver et al.**, 2005c:83059

Bostock, Paul (*with* Gregory, Ruth; Navarro, Ignacio; Santiago, José) Einstein gravity on the codimension 2 brane? (English summary) **2005h:83175**

Bouhmadi, Marian (*with* Wands, David) Induced gravity with a nonminimally coupled scalar field on the brane. (English summary) **2005j:83085**

Braga, Nelson R. F. (*with* Ferreira, Cristine N.) Topological mass term in effective braneworld scenario with torsion. (English summary) **2005m:83118**

Brandt, Friedemann *see* **Barnich, Glenn et al.**, 2005f:83081

Brax, Philippe (*with* van de Bruck, Carsten; Davis, Anne Christine) Brane world cosmology. (English summary) **2005m:83119**

— (*with* Chatillon, N.; Steer, Danièle A.) Effective actions of a Gauss-Bonnet brane world with brane curvature terms. (English summary) **2005h:83176**

— *see also* **Palma, Gonzalo A. et al.**, 2005a:83106

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— (*with* Hallanger, A.) Randall-Sundrum model in the presence of a brane bulk viscosity. (English summary) **2005c:83060**

Brihaye, Yves (*with* Radu, Eugen[2]; Tchrakian, Tigran D. H.) Regular and black hole solutions to higher order curvature Einstein-Yang-Mills-Grassmannian systems in five dimensions. (English summary) **2005f:83084**

— (*with* Hartmann, Betti) Born-Infeld strings in brane worlds. (English summary) **2005b:83089**

— (*with* Clement, Fabien; Hartmann, Betti) Spherically symmetric Yang-Mills solutions in a $(4+n)$-dimensional space-time. (English summary) **2005h:83177**

— (*with* Radu, Eugen[2]) Gravitating Yang-Mills dyon vortices in $4+1$ spacetime dimensions. (English summary) **2005h:83178**

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Bronnikov, K. A. (*with* Fadeev, S. B.; Michtchenko, A. V.) On spherically symmetric minimally coupled brane worlds. (English summary) **2005b:83090**

— (*with* Michtchenko, A. V.) Black holes and wormholes in RS2 type brane worlds. (English summary) **2005m:83120**

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Lü, Hong[1] (*with* Vázquez-Poritz, Justin F.) Four-dimensional Einstein Yang-Mills de Sitter gravity from eleven dimensions. (English summary) **2005d:83120**

— *see also* **Chong, Z.-W. et al., 2005h:83187** *and* **Gibbons, Gary W. et al., 2005k:83134**

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Lunsford, D. R. Gravitation and electrodynamics over SO(3, 3). (English summary) **2005b:83099**

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— *see also* **Han, Muxin et al., 2005j:83094**

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— *see also* **Easther, Richard et al., 2005h:83190**; **Koyama, Kazuya et al., 2005h:83199** *and* **Gergely, László Á. et al., 2005j:83092**

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— (*with* Torii, Takashi[1]) Covariant gravitational equations on a brane world with a Gauss-Bonnet term. (English summary) **2005c:83065**

— *see also* **Okuyama, Naoya, 2005h:83207** *and* **Aoyanagi, Koh-suke**

Maity, Debaprasad (*with* SenGupta, Soumitra) Cosmic optical activity in a Randall-Sundrum braneworld with bulk Kalb-Ramond field. (English summary) **2005b:83100**

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— *see also* **Wang, Peng[2], 2005i:83111**

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Santos, Nuno Loureiro (*with* Dias, Óscar J. C.; Lemos, José P. S.) Global embedding of D-dimensional black holes with a cosmological constant in Minkowskian spacetimes: matching between Hawking temperature and Unruh temperature. (English summary) **2005i:83107**
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— *see also* **Gruppuso, Alessandro et al., 2005k:83135**
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— (*with* Himemoto, Yoshiaki; Takahashi, Keitaro) Randall-Sundrum two D-brane model. (English summary) **2005h:83213**
— (*with* Takahashi, Keitaro; Himemoto, Yoshiaki; Yamamoto, Shuto) Gravity in the Randall-Sundrum two D-brane model. (English summary) **2005i:83109**
— *see also* **Gibbons, Gary W. et al., 2005a:83096**; **Onda, Sumitada et al., 2005d:83128**; **Takahashi, Keitaro, 2005h:83214** *and* **Uesugi, Tomoko et al.**
Shtanov, Yu. V. (*with* Viznyuk, Alexander V.) Linearized gravity on the Randall-Sundrum two-brane background with curvature terms in the action for the branes. (English summary) **2005j:83102**
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— *see also* **Middleton, Chad, 2005m:83129**
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— *see also* **Apostolopoulos, Pantelis S., 2005g:83099**
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Uesugi, Tomoko (*with* Shiromizu, Tetsuya; Torii, Takashi[1]; Takahashi, Keitaro) D-braneworld cosmology. II. Higher order corrections. (English summary)
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Watts, David G. Derivation of x^5-dependent charged metrics in 5-dimensional general relativity. (English summary) **2005f:83094**
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Abdalla, Elcio (*with* Casali, Adenauer G.; Cuadros-Melgar, Bertha) Shortcuts in cosmological branes. (English summary) **2005f:83127**
Aguilar, José Edgar Madriz (*with* Bellini, Mauricio) The evolution of the universe from non-compact Kaluza-Klein theory. (English summary) **2005h:83260**
Alcaniz, J. S. (*with* Zhu, Zong-Hong) Complementary constraints on brane cosmology. (English summary)
— *see also* **Maia, M. D. et al., 2005m:83160**
Aliev, A. N. (*with* Frolov, Valery P.) Five-dimensional rotating black hole in a uniform magnetic field: the gyromagnetic ratio. (English summary) **2005d:83061**
Almeida, C. A. S. *see* **Tahim, M. O., 2005d:81387**
Avachar, G. R. *see* **Khadekar, G. S.**
Bañados, Máximo The physics of higher-dimensional Chern-Simons supergravities. (English summary) **2005f:83109**
Banerjee, Asit Kumar (*with* Debnath, Ujjal; Chakraborty, Subenoy) Higher dimensional Szekeres' space-time in Brans-Dicke scalar tensor theory. (English summary) **2005i:83096**
Barbón, José L. F. (*with* Rabinovici, Eliezer) On long time unitarity restoring processes in the presence of eternal black holes. (English summary) **2005d:83062**
Basini, Giuseppe (*with* Capozziello, Salvatore) A dynamical unification scheme from general conservation laws. (English summary) **2005b:83041**
— (*with* Bongiorno, Fulvio; Capozziello, Salvatore) Singularity free solutions from scalar-tensor gravity compared with recent cosmological observations. (English summary) **2005h:83163**
Bellini, Mauricio *see* **Aguilar, José Edgar Madriz, 2005h:83260**
Bergamin, Luzi (*with* Grumiller, Daniel; Iorio, Alfredo; Núñez, Carlos) Chemistry of Chern-Simons supergravity: reduction to a BPS kink, oxidation to M-theory and thermodynamical aspects. (English summary) **2005h:83247**
Bergshoeff, Eric (*with* Gran, Ulf; Linares, Román; Nielsen, Mikkel; Ortín, Tomás; Roest, Diederik) Gauged supergravities from Bianchi's group manifolds. (English summary) **2005c:83078**
Berndsen, A. (*with* Cline, James M.) Dilaton stabilization in brane gas cosmology. (English summary)
Berti, Emanuele (*with* Cavaglià, Marco; Gualtieri, Leonardo) Gravitational energy loss in high energy particle collisions: ultrarelativistic plunge into a multidimensional black hole. (English summary)
Bertolami, O. (*with* Páramos, J.) The Pioneer anomaly in the context of the braneworld scenario. (English summary) **2005a:83005**
Betounes, David Mathematical aspects of Kaluza-Klein gravity. (English summary) **2005e:53119**
Bianchi, Massimo (*with* Marchetti, Alessandro) Holographic three-point functions: one step beyond the tradition. (English summary) **2005g:81205**
Binétruy, Pierre (*with* Bucher, Martin; Carvalho, Carla) Models for the brane-bulk interaction: toward understanding braneworld cosmological perturbations. (English summary) **2005h:83264**
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Bongiorno, Fulvio *see* **Basini, Giuseppe et al., 2005h:83163**
Boulanger, Nicolas (*with* Erdmenger, Johanna) A classification of local Weyl invariants in $D = 8$. (English summary) **2005k:53136**
Brihaye, Yves (*with* Tchrakian, Tigran D. H.) Yang-Mills sphalerons in all even spacetime dimensions $d = 2k$, $k > 2 : k = 3, 4$. (English summary) **2005m:81199**
Buchan, S. E. Shandera (*with* Shlaer, Benjamin; Stoica, Horace; Tye, S.-H. Henry) Inter-brane interactions in compact spaces and brane inflation. (English summary) **2005h:83222**
Bucher, Martin *see* **Binétruy, Pierre et al., 2005h:83264**
Bukhbinder, I. L. (*with* Gates, S. James, Jr.; Goh, Hock-Seng; Linch, William D., III; Luty, Markus A.; Ng, Siew-Phang; Phillips, Joseph) Supergravity loop contributions to brane world supersymmetry breaking. (English summary) **2005f:83111**
Cai, Rong-Gen (*with* Wang, An Zhong) Thermodynamics and stability of hyperbolic charged black holes. (English summary) **2005j:83052**
— (*with* Wang, An Zhong) Nonasymptotically AdS/dS solutions and their higher dimensional origins. (English summary) **2005j:83023**
— (*with* Pang, Da-Wei; Wang, An Zhong) Born-Infeld black holes in (A)dS spaces. (English summary) **2005i:83057**
Calcagni, Gianluca Consistency equations in Randall-Sundrum cosmology: a test for braneworld inflation. (English summary) **2005j:83142**
— Noncommutative models in patch cosmology. (English summary) **2005m:83086**
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del Campo, Sergio *see* **García Díaz, Alberto et al., 2005d:83154**
Caponio, Erasmo (*with* Masiello, Antonio) Causal properties of Kaluza-Klein metrics. (English summary) **2005h:58027**
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Chakraborty, Subenoy *see* **Debnath, Ujjal, 2005f:83067** *and* **Banerjee, Asit Kumar et al., 2005i:83096**
Cheung, Yeuk-Kwan E. (*with* Laidlaw, Mark; Savvidy, Konstantin) Open string gravity? (English summary) **2005j:83111**
Cho, Chung Hyun Conformal change of the tensor $U^{\nu}{}_{\omega\mu}$ in 7-dimensional g-UFT. (English summary) **2005h:53031**
Clarkson, Richard (*with* Ghezelbash, Amir Masoud; Mann, Robert B.) A review of the N-bound and the maximal mass conjectures using NUT-charged dS space-times. (English summary) **2005j:83021**
Cline, James M. *see* **Vinet, Jérémie, 2005k:83191** *and* **Berndsen, A.**
Coley, Alan A. (*with* Milson, Robert; Pravda, V.; Pravdová, A.) Classification of the Weyl tensor in higher dimensions. (English summary) **2005j:53019**
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— *see also* **Mizuno, Shuntaro et al.**
Cuadros-Melgar, Bertha *see* **Abdalla, Elcio et al., 2005f:83127**
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Debnath, Ujjal (*with* Chakraborty, Subenoy) Gravitational collapse in higher dimensional space-time. (English summary) **2005f:83067**
— *see also* **Banerjee, Asit Kumar et al., 2005i:83096**
Dehnen, H. (*with* Ivashchuk, Vladimir D.; Melnikov, V. N.) Billiard representation for multidimensional multi-scalar cosmological model with exponential potentials. (English summary) **2005b:83138**
Deo, S. D. *see* **Mahurpawar, V.**
De Smet, Pieter-Jan The Petrov type of the five-dimensional Myers-Perry metric. (English summary) **2005c:83014**
Dowker, J. S. (*with* Kirsten, Klaus) The Barnes ζ-function, sphere determinants and Glaisher-Kinkelin-Bendersky constants. (English summary) **2005j:11062**
Dudas, Emilian (*with* Gherghetta, Tony; Groot Nibbelink, Stefan) Vector-tensor duality in the five dimensional supersymmetric Green-Schwarz mechanism. (English summary) **2005h:81362**
Ellis, Jonathan Richard (*with* Mavromatos, Nikolaos E.; Nanopoulos, Dimitri; Sakharov, Alexander S.) Brany Liouville inflation. (English summary) **2005m:83156**
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Firouzjahi, Hassan (*with* Sarangi, Saswat; Tye, S.-H. Henry) Spontaneous creation of inflationary universes and the cosmic landscape. (English summary) **2005j:83147**
— (*with* Tye, S.-H. Henry) Brane inflation and cosmic string tension in superstring theory. (English summary) **2005j:83114**
Flachi, Antonino (*with* Knapman, Alan; Naylor, Wade; Sasaki, Misao) Zeta functions in brane world cosmology. (English summary) **2005m:83158**
Förste, Stefan (*with* Nilles, Hans Peter; Vaudrevange, Patrick; Wingerter, Akın) Heterotic brane world. (English summary) **2005k:83156**
Freund, Peter G. O. Physics and geometry. (English summary) **2005g:53142**
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Gao, Chang Jun Arbitrary-dimensional Schwarzschild-FRW black holes. (English summary) **2005k:83074a**
— Corrigendum: "Arbitrary-dimensional Schwarzschild-FRW black holes" [Classical Quantum Gravity **21** (2004), no. 21, 4805–4810; MR2107325 (2005k:83074a)]. **2005k:83074b**
García Díaz, Alberto (*with* García-Quiroz, Alberto; Cataldo, Mauricio; del Campo, Sergio) Correspondence between n- and m-dimensional inflationary cosmologies. (English summary) **2005d:83154**
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Ghezelbash, Amir Masoud *see* **Clarkson, Richard et al., 2005j:83021**
Gibbons, Gary W. (*with* Lü, Hong[1]; Page, Don N.; Pope, Christopher N.) The general Kerr-de Sitter metrics in all dimensions. (English summary) **2005i:53056**
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Goenner, Hubert F. M. On the history of unified field theories. (English summary) **2005g:83002**
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Gualtieri, Leonardo *see* **Berti, Emanuele et al.**
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Harmark, Troels (*with* Obers, Niels A.) New phase diagram for black holes and strings on cylinders. (English summary) **2005c:83036**
— (*with* Obers, Niels A.) General definition of gravitational tension. (English summary) **2005c:83073**
— Small black holes on cylinders. (English summary) **2005i:83066**
— (*with* Obers, Niels A.) New phases of thermal SYM and LST from Kaluza-Klein black holes. (English summary) **2005m:83135**
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Iorio, Alfredo *see* **Bergamin, Luzi et al., 2005h:83247**
Ishibashi, Akihiro (*with* Kodama, Hideo) Stability of higher-dimensional Schwarzschild black holes. (English summary) **2005c:83037**
— *see also* **Kodama, Hideo, 2005a:83060** *and* **Hollands, Stefan, 2005m:83039**
Ivashchuk, Vladimir D. Composite S-brane solutions related to Toda-type systems. (English summary) **2005a:83121**
— (*with* Singleton, Douglas) Composite electric S-brane solutions with maximal number of branes. (English summary) **2005h:83237**
— *see also* **Dehnen, H. et al., 2005b:83138**
Joshi, Pankaj S. *see* **Goswami, Rituparno, 2005m:83087**
Jung, Eylee (*with* Park, DaeKil) Absorption and emission spectra of a higher-dimensional Reissner-Nordström black hole. (English summary) **2005m:83065**
— (*with* Kim, Sung Hoon; Park, DaeKil) Condition for superradiance in higher-dimensional rotating black holes. (English summary) **2005k:83082**
Kang, Gungwon (*with* Koga, Jun-ichirou; Park, Mu-In) Near-horizon conformal symmetry and black hole entropy in any dimension. (English summary) **2005h:83112**
Karasik, D. (*with* Sahabandu, C.; Suranyi, P.; Wijewardhana, L. C. Rohana) Analytic approximation to 5 dimensional black holes with one compact dimension. (English summary) **2005m:83067**
Kastor, David (*with* Traschen, Jennie) Conserved gravitational charges from Yano tensors. (English summary) **2005i:83032**
Katz, Andrey (*with* Shadmi, Yael) Gauge theories in AdS_5 and fine-lattice deconstruction. (English summary) **2005h:81231**
Keurentjes, Arjan E_{11}: sign of the times. (English summary) **2005g:83124**
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Knapman, Alan *see* **Flachi, Antonino et al., 2005m:83158**
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— *see also* **Ishibashi, Akihiro, 2005c:83037**
Koga, Jun-ichirou *see* **Kang, Gungwon et al., 2005h:83112**
Kol, Barak (*with* Sorkin, Evgeny; Piran, Tsvi) Caged black holes: black holes in compactified spacetimes. I. Theory. (English summary) **2005e:83046**
— *see also* **Gorbonos, Dan, 2005c:83035** *and* **Sorkin, Evgeny et al., 2005e:83047**
Kudoh, Hideaki (*with* Wiseman, Toby) Properties of Kaluza-Klein black holes. (English summary) **2005f:83057**
Kunduri, Hari K. (*with* Lucietti, James) Electrically charged dilatonic black rings. (English summary) **2005h:83115**
Kunz, Jutta (*with* Navarro-Lérida, Francisco; Petersen, Anna Katinka) Five-dimensional charged rotating black holes. (English summary) **2005k:83084**
Laidlaw, Mark *see* **Cheung, Yeuk-Kwan E. et al., 2005j:83111**
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Lee, Seung-Joo[1] *see* **Mizuno, Shuntaro et al.**
Leonhardt, Thorsten (*with* Rühl, Werner; Manvelyan, Ruben) The group approach to AdS space propagators: a fast algorithm. (English summary) **2005b:81119**
Li, Xiang[3] (*with* Shen, You-Gen) Quantizing the de Sitter space-times. (English summary) **2005i:83041**
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Linde, Andrei D. Inflationary theory versus the ekpyrotic/cyclic scenario. (*see* **2005j:83002**)
Ling, Yi[3] (*with* Tung, Roh-Suan; Guo, Han-Ying) Supergravity and Yang-Mills theories as generalized topological fields with constraints. (English summary) **2005j:83136**
Lü, Hong[1] *see* **Gibbons, Gary W. et al., 2005i:53056** *and* **Cvetič, Mirjam et al., 2005i:83061**
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Madden, Owen (*with* Ross, Simon F.) On uniqueness of charged Kerr-AdS black holes in five dimensions. (English summary) **2005i:83070**
Maeda, Hideki (*with* Torii, Takashi[1]; Harada, Tomohiro) Novel Cauchy-horizon instability. (English summary) **2005k:83086**
Mahurpawar, V. (*with* Deo, S. D.) n-dimensional static plane symmetric space-time with cosmic strings in bimetric relativity. (English summary)
Maia, J. M. F. *see* **Maia, M. D. et al., 2005m:83160**
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— *see also* **Leonhardt, Thorsten et al., 2005b:81119**
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Melnikov, V. N. *see* **Dehnen, H. et al., 2005b:83138**
Milson, Robert *see* **Coley, Alan A. et al., 2005j:53019**
Mizuno, Shuntaro (*with* Lee, Seung-Joo[1]; Copeland, Edmund J.) Cosmological evolution of general scalar fields in a brane-world cosmology. (English summary)
Monte, E. M. *see* **Maia, M. D. et al., 2005m:83160**
Morales, José Francisco (*with* Samtleben, Henning) Higher spin holography for SYM in d dimensions. (English summary) **2005j:81185**

Morisawa, Yoshiyuki (*with* Ida, Daisuke) Boundary value problem for five-dimensional stationary rotating black holes. (English summary) **2005d:83079**
— (*with* Ida, Daisuke) Scalar field perturbation on six-dimensional ultraspinning black holes. (English summary) **2005k:83089**
Murayama, Akihiro *see* **Ichinose, Shoichi, 2005a:81223**
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— *see also* **Flachi, Antonino et al., 2005m:83158**
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Polchinski, Joseph *see* **Copeland, Edmund J. et al., 2005k:83153**
Pope, Christopher N. 57 varieties in a NUTshell. (*see* **2005j:83002**)
— *see also* **Gibbons, Gary W. et al., 2005i:53056** *and* **Cvetič, Mirjam et al., 2005i:83061**
Pravda, V. *see* **Coley, Alan A. et al., 2005j:53019**
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Rabinovici, Eliezer *see* **Barbón, José L. F., 2005d:83062**
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Sahni, Varun (*with* Shtanov, Yu. V.) Braneworld models of dark energy. (English summary)
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Saraykar, R. V. *see* **Sarwe, Sanjay B., 2005m:83091**
Saremi, Omid (*with* Peet, Amanda W.) Brane-antibrane systems and the thermal life of neutral black holes. (English summary) **2005m:83079**
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Seahra, Sanjeev S. (*with* Wesson, Paul S.) Universes encircling five-dimensional black holes. (English summary) **2005h:83124**
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— *see also* **Kol, Barak et al., 2005e:83046**
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— (*with* Lozano, Yolanda; Rodríguez-Gómez, Diego) Giant gravitons in $AdS_3 \times S^3 \times T^4$ as fuzzy cylinders. (English summary) **2005j:83120**
— (*with* Lozano, Yolanda; Rodríguez-Gómez, Diego) Giant gravitons and fuzzy CP^2. (English summary) **2005k:83160**
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Witten, Edward *see* **Berkovits, Nathan, 2005k:83148**
Yasui, Yukinori *see* **Hashimoto, Yoshitake et al., 2005h:83235**
Yogendran, K. P. D-branes in 2D Lorentzian black hole. (English summary) **2005k:83170**
Yoneya, Tamiaki What is 'holography' in the plane-wave limit of the AdS_5/SYM_4 correspondence? (English summary) **2005j:83126**
— *see also* **Dobashi, Suguru, 2005i:83117** *and* **2005i:83118**
Yoshida, Kentaroh *see* **Sakaguchi, Makoto, 2005k:83168**
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Zhang, Yuan-Zhong *see* **Nandi, Kamal Kanti, 2005h:83242**

Items with secondary classifications in 83E30

Abdalla, M. C. B. (*with* Bytsenko, Andrei A.; Guimarães, M. E. X.) Quantum states, thermodynamic limits, and entropy in M theory. (English summary) **2005e:81158**
Aharony, Ofer (*with* Fiol, Bartomeu; Kutasov, David; Sahakyan, David A.) Little string theory and heterotic/type II duality. (English summary) **2005d:81268**
— (*with* Giveon, Amit; Kutasov, David) LSZ in LST. (English summary) **2005h:81255**
Ahn, Changhyun $\mathcal{N} = 1$ conformal supergravity and twistor-string theory. (English summary) **2005j:83128**
Aleksandrova, Desislava (*with* Bozhilov, P.) On the classical string solutions and string/field theory duality. II. (English summary) **2005f:81165**
Alishahiha, Mohsen (*with* Ghodsi, Ahmad; Mosaffa, Amir E.) On isolated conformal fixed points and noncritical string theory. (English summary) **2005k:81203**
de Alwis, S. P. Brane worlds in 5D and warped compactifications in IIB. (English summary) **2005f:83080**
Amelino-Camelia, Giovanni (*with* Doplicher, Luisa) D-particle-inspired analysis of localization limits in quantum gravity. (English summary) **2005h:83062**
Anderson, Edward (*with* Dahia, F.; Lidsey, James E.; Romero, C. A.) Embeddings in spacetimes sourced by scalar fields. (English summary) **2005a:83088**
Anderson, Lara B. (*with* Wheeler, James T.) Biconformal supergravity and the AdS/CFT conjecture. (English summary) **2005a:83132**
(Antoniadis, Ignatios) *see* **Strings 04. Part I, 2005j:81002** *and* **Strings 04. Part II, 2005j:81003**
Apreda, Riccardo (*with* Crooks, David E.; Evans, Nick; Petrini, Michela) Confinement, glueballs and strings from deformed AdS. (English summary) **2005e:81224**
Arapoglu, Savas (*with* Deger, Nihat Sadik; Kaya, Ali; Sezgin, E.; Sundell, P.) Multispin giants. (English summary) **2005g:81222**
Areán, Daniel (*with* Crooks, David E.; Ramallo, Alfonso V.) Supersymmetric probes on the conifold. (English summary) **2005h:81348**
Arutyunov, Gleb E. (*with* Frolov, Sergei A.; Staudacher, Matthias) Bethe ansatz for quantum strings. (English summary) **2005i:81118**
— (*with* Frolov, Sergei A.) Integrable Hamiltonian for classical strings on $AdS_5 \times S^5$. (English summary) **2005k:81205**
Astefanesei, Dumitru (*with* Mann, Robert B.; Radu, Eugen[2]) Reissner-Nordström-de Sitter black hole, planar coordinates and dS/CFT. (English summary) **2005a:83053**
de Azcárraga, José A. *see* **Bandos, Igor A. et al., 2005g:83129**
Babington, J. (*with* Erdmenger, Johanna; Evans, Nick; Guralnik, Zachary; Kirsch, Ingo) A gravity dual of chiral symmetry breaking. (English summary) **2005c:81149**
— (*with* Erdmenger, Johanna; Evans, Nick; Guralnik, Zachary; Kirsch, Ingo) Chiral symmetry breaking and pions in nonsupersymmetric gauge/gravity duals. (English summary) **2005f:81169**
Bak, Dongsu (*with* Yee, Ho-Ung) Holography, dimensional reduction and the Bekenstein bound. (English summary) **2005c:83058**
— (*with* Hyakutake, Yoshifumi; Ohta, Nobuyoshi) Phase moduli space of supertubes. (English summary) **2005b:81126**
Balasubramanian, Vijay Accelerating universes and string theory. (English summary) **2005e:83111**
— (*with* Berglund, Per) Stringy corrections to Kähler potentials, SUSY breaking, and the cosmological constant problem. (English summary) **2005i:81119**
Bandos, Igor A. (*with* Isidro, José María[2]) $D = 4$ supergravity dynamically coupled to superstring in a superfield Lagrangian approach. (English summary) **2005e:83101**
— (*with* de Azcárraga, José A.; Izquierdo, José Manuel; Picón, Moisés; Varela, Oscar) BPS preons, generalized holonomies, and $D = 11$ supergravities. (English summary) **2005g:83129**
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Battefeld, Thorsten (*with* Watson, Scott) Effective field theory approach to string gas cosmology. (English summary) **2005h:83262**
Becker, Katrin (*with* Becker, Melanie; Dasgupta, Keshav; Green, Paul S.; Sharpe, Eric) Compactifications of heterotic strings of non-Kähler complex manifolds. II. (English summary) **2005h:81258**
Becker, Melanie (*with* Constantin, Dragoş; Gates, S. James, Jr.; Linch, William D., III; Merrell, Willie; Phillips, Joseph) $\mathcal{M}$-theory on Spin(7) manifolds, fluxes and 3D, $\mathcal{N} = 1$ supergravity. (English summary) **2005b:81127**
— *see also* **Becker, Katrin et al., 2005h:81258**
Behrndt, Klaus (*with* Jeschek, Claus) Fluxes in M-theory on 7-manifolds and G structures. (English summary) **2005b:81128**
— (*with* Jeschek, Claus) Superpotentials from flux compactifications of M-theory. (English summary) **2005b:81129**
Beisert, Niklas (*with* Staudacher, Matthias; Frolov, Sergei A.; Tseytlin, A. A.) Precision spectroscopy of AdS/CFT. (English summary) **2005g:81224**
Belhaj, Adil On geometric transitions in string compactifications. (English summary) **2005j:81127**
Bellucci, Stefano (*with* Krivonos, S. O.; Orazi, E.) On the conformal side of the Penrose limit. (English summary) **2005j:81165**
Bena, Iosif (*with* Ciocarlie, Calin) Exact $\mathcal{N} = 2$ supergravity solutions with polarized branes. (English summary) **2005i:83128**
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— (*with* Haack, Michael; Körs, Boris) Brane/flux interactions in orientifolds. (English summary) **2005c:81150**
Bergamin, Luzi (*with* Grumiller, Daniel; Iorio, Alfredo; Núñez, Carlos) Chemistry of Chern-Simons supergravity: reduction to a BPS kink, oxidation to M-theory and thermodynamical aspects. (English summary) **2005h:83247**
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Bergshoeff, Eric (*with* Cucu, Sorin; de Wit, Tim; Gheerardyn, Jos; Vandoren, Stefan; Van Proeyen, Antoine) $N = 2$ supergravity in five dimensions revisited. (English summary) **2005c:83079**
— (*with* Nielsen, Mikkel; Roest, Diederik) The domain walls of gauged maximal supergravities and their M-theory origin. (English summary) **2005k:83174**
— (*with* Collinucci, Andres; Gran, Ulf; Roest, Diederik; Vandoren, Stefan) Non-extremal D-instantons. (English summary) **2005k:81210**
Bertoldi, Gaetano (*with* Bigazzi, Francesco; Cotrone, Aldo Lorenzo; Núñez, Carlos; Pando Zayas, Leopoldo A.) On the universality class of certain string theory hadrons. (English summary) **2005k:81213**
Bertolini, Matteo Four lectures on the gauge/gravity correspondence. (English summary) **2005f:81236**
— (*with* Demasure, Yves; Di Vecchia, Paolo; Kristjansen, Charlotte; Merlatti, Paolo; Obers, Niels A.) Editorial: Papers from the RTN Workshop on the Quantum Structure of Spacetime and the Geometric Nature of Fundamental Interactions.
— (*with* Bigazzi, Francesco; Cotrone, Aldo Lorenzo) New checks and subtleties for AdS/CFT and a-maximization. (English summary) **2005j:81129**
Bhattacharjee, Ratnajit (*with* Baruah, K. K.) Bianchi III string cosmology. (English summary)

Bianchi, Massimo (*with* Prisco, Maurizio; Mück, Wolfgang) New results on holographic three-point functions. (English summary) **2005a:81149**
Bigazzi, Francesco *see* **Bertolini, Matteo et al., 2005j:81129** *and* **Bertoldi, Gaetano et al., 2005k:81213**
Biswas, Rahul (*with* Keski-Vakkuri, Esko; Leigh, Robert G.; Nowling, Sean; Sharpe, Eric) The taming of closed time-like curves. (English summary) **2005a:81151**
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— (*with* Schalm, Koenraad Eduard; Wijnhout, Jeroen) General covariance of the non-abelian DBI-action: checks and balances. (English summary) **2005m:81233**
Bonelli, Giulio On the boundary gauge dual of closed tensionless free strings in AdS. (English summary) **2005h:81262**
Boschi-Filho, Henrique (*with* Braga, Nelson R. F.) Isometries of a D3-brane space. (English summary) **2005d:83144**
— (*with* Braga, Nelson R. F.) AdS space compactification and holographic mapping in the AdS/CFT correspondence. (English summary) **2005g:81300**
— (*with* Braga, Nelson R. F.) Wilson loops for a quark anti-quark pair in D3-brane space. (English summary)
Bousso, Raphael Harmonic resolution as a holographic quantum number. (English summary) **2005i:83055**
Boyarskiĭ, A. M. (*with* Cheianov, Vadim V.; Ruchayskiy, Oleg) Fermions in the harmonic potential and string theory. (English summary) **2005k:81215**
Bozhilov, P. *see* **Aleksandrova, Desislava, 2005f:81165**
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Brihaye, Yves (*with* Hartmann, Betti) Born-Infeld strings in brane worlds. (English summary) **2005b:83089**
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— Five-brane dynamics and inflation in heterotic M-theory. (English summary) **2005m:81237**
Burgess, Clifford P. (*with* Matias, Joaquim; Quevedo, Fernando) MSLED: a minimal supersymmetric large extra dimensions scenario. (English summary) **2005j:81207**
Burikham, Piyabut Remarks on limits on string scale from proton decay and low-energy amplitudes in braneworld scenario. (English summary) **2005k:83125**
Burinskiĭ, A. Ya. Orientifold D-string in the source of the Kerr spinning particle. **2005b:83019**
Burrington, Benjamin A. (*with* Liu, James T.) Supersymmetry and the AdS Higgs phenomenon. (English summary) **2005j:81177**
— (*with* Liu, James T.; Pando Zayas, Leopoldo A.; Vaman, Diana) Holographic duals of flavored $\mathcal{N}=1$ super Yang-Mills: beyond the probe approximation. (English summary) **2005m:81299**
Bytsenko, Andrei A. *see* **Abdalla, M. C. B. et al., 2005e:81158**
Cacciatori, Sergio L. (*with* Caldarelli, Marco M.; Klemm, Dietmar; Mansi, Diego S.) More on BPS solutions of $N=2$, $D=4$ gauged supergravity. (English summary) **2005f:83112**
Caldarelli, Marco M. *see* **Cacciatori, Sergio L. et al., 2005f:83112**
Callan, Curtis G., Jr. (*with* McLoughlin, Tristan; Swanson, Ian) Higher impurity AdS/CFT correspondence in the near-BMN limit. (English summary) **2005e:81167**
Campos, Antonio Asymptotic cosmological solutions for string and brane gases with solitonic fluxes. (English summary)
Cardoso, Gabriel Lopes (*with* Curio, Gottfried; Dall'Agata, Gianguido; Lüst, Dieter) BPS action and superpotential for heterotic string compactifications with fluxes. (English summary) **2005h:81263**
Cardoso, Vitor (*with* Lemos, José P. S.) New instability for rotating black branes and strings. (English summary)
Cariglia, Marco (*with* Mac Conamhna, Oisín A. P.) Classification of supersymmetric spacetimes in eleven dimensions. (English summary) **2005m:83145**
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Cha, Kyung-Seok (*with* Lee, Bum-Hoon; Yang, Hyun Seok) Supersymmetric D-branes in type-IIB plane wave background. (English summary) **2005a:81163**
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Cheianov, Vadim V. *see* **Boyarskiĭ, A. M. et al., 2005k:81215**
Chen, Xingang Multithroat brane inflation. (English summary) **2005k:83195**
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Chong, Z.-W. (*with* Lü, Hong[1]; Pope, Christopher N.) BPS geometries and AdS bubbles. (English summary) **2005k:83176**
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— Symmetry and causality in pp-wave string field theory. (English summary) **2005m:81240**
— *see also* **Chang, Darwin et al., 2005d:83066**
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Ciocarlie, Calin *see* **Bena, Iosif, 2005i:83128**
Clark, Thomas E. (*with* Nitta, Muneto; ter Veldhuis, T.) Non-BPS brane dynamics and dual tensor gauge theory. (English summary) **2005i:81121**
Clarkson, Richard (*with* Ghezelbash, Amir Masoud; Mann, Robert B.) New reducible membrane solutions in $D=11$ supergravity. (English summary) **2005f:83113**
Clément, Gérard (*with* Gal'tsov, D. V.; Leygnac, Cédric) Black branes on the linear dilaton background. (English summary) **2005m:83147**
— *see also* **Gal'tsov, D. V. et al., 2005g:83131**
Collinucci, Andres *see* **Bergshoeff, Eric et al., 2005k:81210**
Conlon, Joseph P. (*with* Quevedo, Fernando) On the explicit construction and statistics of Calabi-Yau flux vacua. (English summary) **2005j:81135**
Constantin, Dragoş *see* **Becker, Melanie et al., 2005b:81127**
Corrado, Richard (*with* Halmagyi, Nick) $\mathcal{N}=1$ field theories and fluxes in IIB string theory. (English summary) **2005m:81241**
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Cucu, Sorin (*with* Lü, Hong[1]; Vázquez-Poritz, Justin F.) Interpolating from $AdS_{D-2}\times S^2$ to AdS_D. (English summary) **2005b:83133**
— *see also* **Bergshoeff, Eric et al., 2005c:83079**
Curio, Gottfried (*with* Krause, Axel) Enlarging the parameter space of heterotic M-theory flux compactifications to phenomenological viability. (English summary) **2005d:81278**
— *see also* **Cardoso, Gabriel Lopes et al., 2005h:81263**
Cvetič, Mirjam (*with* Gibbons, Gary W.; Pope, Christopher N.) Ghost-free de Sitter supergravities as consistent reductions of string and M-theory. (English summary) **2005h:83253**
Dabholkar, Atish (*with* Hull, Christopher M.) Duality twists, orbifolds, and fluxes. (English summary) **2005e:81169**
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Dall'Agata, Gianguido (*with* D'Auria, Riccardo; Sommovigo, Luca; Vaulà, Silvia) $D=4$, $\mathcal{N}=2$ gauged supergravity in the presence of tensor multiplets. (English summary) **2005g:83130**
— *see also* **Cardoso, Gabriel Lopes et al., 2005h:81263**
Damour, Thibault Chaos in string cosmology. (English summary) **2005g:83140a**
— The entropy of black holes: a primer. (English summary) **2005d:83068**
— String cosmology and chaos. (English summary) **2005g:83140b**
Das, Ashok (*with* Melikyan, Arsen; Sato, Matsuo; Maharana, Jnanadeva) The algebra of transition matrices for the $AdS_5\times S^5$ superstring. (English summary) **2005k:81222**
Dasgupta, Keshav (*with* Hsu, Jonathan P.; Kallosh, Renata; Linde, Andrei D.; Zagermann, Marco) D3/D7 brane inflation and semilocal strings. (English summary) **2005h:81270**
— *see also* **Becker, Katrin et al., 2005h:81258**
D'Auria, Riccardo *see* **Dall'Agata, Gianguido et al., 2005g:83130**
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— (*with* Theis, Ulrich; Vandoren, Stefan) Fivebrane instanton corrections to the universal hypermultiplet. (English summary) **2005k:81223**
Davis, Joshua L. (*with* Pando Zayas, Leopoldo A.; Vaman, Diana) On black hole thermodynamics of 2-D type 0A. (English summary) **2005g:83064**
Deger, Nihat Sadik (*with* Sarıoğlu, Özgür) Supersymmetric strings and waves in $D=3$, $N=2$ matter coupled gauged supergravities. (English summary) **2005j:83132**
— *see also* **Arapoglu, Savas et al., 2005g:81222**
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— *see also* **Banks, Tom et al., 2005g:81223**
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Douglas, Michael R. The geometry of string theory. (English summary) **2005m:81244**
— *see also* **Denef, Frederik et al., 2005k:81224**
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Elvang, Henriette (*with* Emparan, Roberto; Figueras, Pau) Non-supersymmetric black rings as thermally excited supertubes. (English summary) **2005k:83178**
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— (*with* Houart, Laurent) $\mathcal{G}^{+++}$ invariant formulation of gravity and M-theories: exact PBS solutions. (English summary) **2005g:81235**
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— *see also* **Babington, J. et al., 2005c:81149** *and* **2005f:81169**
Ernebjerg, Morten (*with* Karczmarek, Joanna L.; Lapan, Joshua M.) Collective field description of matrix cosmologies. (English summary) **2005g:81236**
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— *see also* **Babington, J. et al., 2005c:81149**; **2005f:81169** *and* **Apreda, Riccardo et al., 2005e:81224**
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Fukuma, M. (*with* Itoyama, Hiroshi; Nakatsu, Toshio; Tsuchiya, Asato) Preface [String theory].
Gabadadze, Gregory (*with* Iglesias, Alberto) On theta dependence of glueballs from AdS/CFT. (English summary) **2005h:81427**
Gaberdiel, Matthias R. (*with* Green, Michael B.) The D-instanton and other supersymmetric D-branes in IIB plane-wave string theory. (English summary) **2005c:81160**
— Strings and branes in plane waves. (English summary) **2005e:81175**
Gal'tsov, D. V. (*with* Lemos, José P. S.; Clément, Gérard) Supergravity p-branes reexamined: extra parameters, uniqueness, and topological censorship. (English summary) **2005g:83131**
— *see also* **Clément, Gérard et al., 2005m:83147**
García-Compeán, Hugo (*with* Loaiza-Brito, Oscar) Branes and fluxes in orientifolds and K-theory. (English summary) **2005h:81281**
— (*with* García-Jiménez, G.; Obregón, Octavio; Ramírez Romero, Cupatitzio) Tachyon driven quantum cosmology in string theory. (English summary) **2005k:83199**
García-Jiménez, G. *see* **García-Compeán, Hugo et al., 2005k:83199**
Garousi, Mohammad R. (*with* Sami, Mohammad; Tsujikawa, Shinji) Generation of electromagnetic fields in string cosmology with a massive scalar field on the anti-D-brane. (English summary) **2005j:83149**
Gasperini, M. (*with* Giovannini, Massimo; Veneziano, Gabriele) Cosmological perturbations across a curvature bounce. (English summary) **2005b:83140**
Gates, S. James, Jr. (*with* Kiss, Annamária; Merrell, Willie) Dynamical equations from a first-order perturbative superspace formulation of 10D, $\mathcal{N} = 1$ string-corrected supergravity. I. (English summary) **2005k:83179**
— *see also* **Becker, Melanie et al., 2005b:81127**
Gauntlett, Jerome P. (*with* Gutowski, Jan B.; Suryanarayana, Nemani V.) A deformation of $AdS_5 \times S^5$. (English summary) **2005g:83132**
Georgalas, B. C. *see* **Diamandis, G. A. et al., 2005f:83114**
Georgiou, George (*with* Travaglini, Gabriele) Fermion BMN operators, the dilatation operator of $\mathcal{N} = 4$ SYM, and pp-wave string interactions. (English summary) **2005b:81191**
Gheerardyn, Jos *see* **Bergshoeff, Eric et al., 2005c:83079**
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Giveon, Amit (*with* Konechny, Anatoly; Rabinovici, Eliezer; Sever, Amit) On thermodynamical properties of some coset CFT backgrounds. (English summary) **2005h:81328**
— *see also* **Aharony, Ofer et al., 2005h:81255**
Goheer, Naureen (*with* Kleban, Matthew; Susskind, Leonard) $1 + 1$ dimensional compactifications of string theory. (English summary) **2005h:81282**
Gómez-Reino, Marta (*with* Naculich, Stephen G.; Schnitzer, Howard J.) Thermodynamics of the localized D2-D6 system. (English summary) **2005j:81140**
Gomis, Jaume Lectures on tachyon condensation: towards time-dependent backgrounds and holography. (English summary)
Gopakumar, Rajesh From free fields to AdS space. I. (English summary) **2005h:81366**
— From free fields to AdS space. II. (English summary) **2005h:81367**
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Graña, Mariana (*with* Minasian, Ruben; Petrini, Michela; Tomasiello, Alessandro) Supersymmetric backgrounds from generalized Calabi-Yau manifolds. (English summary) **2005k:81313**
— *see also* **Frey, Andrew R., 2005g:81238**
Gray, James A. (*with* Lukas, André; Probert, Gavin I.) Gauge five-brane dynamics and small instanton transitions in heterotic models. (English summary) **2005e:81177**
Green, Michael B. *see* **Gaberdiel, Matthias R., 2005c:81160**
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(Gross, David J.) *see* **Zwiebach, Barton, 2005e:81204**
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Gubser, Steven S. Loop effects in AdS/CFT and beyond. (English summary)
— *see also* **Friess, Joshua J. et al., 2005b:83139**
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Gunaydin, Murat (*with* Takemae, S.) Erratum to: "Unitary supermultiplets of $OSp(8^*|4)$ and the AdS_7/CFT_6 duality" [Nuclear Phys. B **578** (2000), no. 1-2, 405–448; MR1766151 (2001i:81262)]. **2005m:81304**
— *see also* **Babington, J. et al., 2005c:81149** *and* **2005f:81169**
Guth, Alan H. (*with* Kaiser, David I.) Inflationary cosmology: exploring the Universe from the smallest to the largest scales. (English summary) **2005k:83200**
Gutowski, Jan B. (*with* Reall, Harvey S.) Supersymmetric AdS_5 black holes. (English summary) **2005d:83071**
— (*with* Reall, Harvey S.) General supersymmetric AdS_5 black holes. (English summary) **2005f:83054**
— *see also* **Gauntlett, Jerome P. et al., 2005g:83132**
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Halyo, Edi Cosmic D-term strings as wrapped D3 branes. (English summary) **2005a:83140**
Hamilton, Alex Jordan (*with* Kabat, Daniel; Parikh, Maulik) A first-quantized formalism for cosmological particle production. (English summary) **2005f:83129**
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— (*with* Obers, Niels A.) Phase structure of black holes and strings on cylinders. (English summary) **2005a:83059**
— Small black holes on cylinders. (English summary) **2005i:83066**
Hartmann, Betti *see* **Brihaye, Yves, 2005b:83089**
Hassaïne, Mokhtar (*with* Troncoso, Ricardo; Zanelli, Jorge) Poincaré invariant gravity with local supersymmetry as a gauge theory for the M-algebra. (English summary) **2005d:83115**
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Headrick, Matthew (*with* Minwalla, Shiraz; Takayanagi, Tadashi) Closed string tachyon condensation: an overview. (English summary) **2005m:81255**
Hellerman, Simeon (*with* McGreevy, John; Williams, Brook) Geometric constructions of nongeometric string theories. (English summary) **2005j:81144**
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Ho, Pei-Ming Isometry of AdS_2 and the $c = 1$ matrix model. (English summary) **2005c:81166**
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— *see also* **Fidkowski, Lukasz et al., 2005g:83066**
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— *see also* **Giryavets, Alexander et al., 2005e:81176**
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Kallosh, Renata (*with* Linde, Andrei D.) Landscape, the scale of SUSY breaking, and inflation. (English summary) **2005k:81242**
— *see also* **Dasgupta, Keshav et al., 2005h:81270**
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— (*with* Soda, Jiro) Validity of a factorizable metric ansatz in string cosmology. (English summary) **2005k:83201**
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— *see also* **Ernebjerg, Morten et al., 2005g:81236**
Kaya, Ali *see* **Arapoglu, Savas et al., 2005g:81222**
Kazakov, Vladimir Aleksandrovich[1] (*with* Marshakov, Andrei; Minahan, Joseph A.; Zarembo, Konstantin) Classical/quantum integrability in AdS/CFT. (English summary) **2005g:81244**
Kehagias, Alexandros A. A conical tear drop as a vacuum-energy drain for the solution of the cosmological constant problem. (English summary) **2005d:83156**
Kerimo, Johannes (*with* Lü, Hong[1]) pp waves in AdS gauged supergravities and supernumerary supersymmetry. (English summary) **2005k:83182**
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Keurentjes, Arjan The topology of U-duality (sub)groups. (English summary) **2005f:83120**
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Kim, Nakwoo Plane wave matrix theory vs. $\mathcal{N} = 4$, $D = 4$ super Yang-Mills. (English summary) **2005d:81341**
— Multispin strings on $AdS_5 \times T^{1,1}$ and operators of $\mathcal{N} = 1$ superconformal theory. (English summary) **2005f:81190**
Kim, Won Tae (*with* Oh, John J.; Yoon, Myung Seok) Traversable wormhole construction in $2 + 1$ dimensions. (English summary) **2005h:83153**
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Kimura, Tetsuji (*with* Yoshida, Kentaroh) Spectrum of eleven-dimensional supergravity on a pp-wave background. (English summary) **2005c:83084**
Kirsch, Ingo (*with* Oprisa, Dan) Towards the deconstruction of M-theory. (English summary) **2005a:81176**
— *see also* **Babington, J. et al., 2005c:81149**; **2005f:81169** *and* **Erdmenger, Johanna, 2005j:81179**
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Klebanov, Igor R. (*with* Maldacena, Juan M.) Superconformal gauge theories and noncritical superstrings. (English summary) **2005m:81263**
Kleinschmidt, Axel[2] (*with* Nicolai, Hermann) E_{10} and SO(9, 9) invariant supergravity. (English summary) **2005g:83133**
Klemm, Dietmar (*with* Vanzo, Luciano) Aspects of quantum gravity in de Sitter spaces. (English summary) **2005j:83036**
— *see also* **Cacciatori, Sergio L. et al., 2005f:83112**
Klose, Thomas *see* **Fischbacher, Thomas et al., 2005k:81227**
Kofman, Lev (*with* Linde, Andrei D.; Liu, Xiao[1]; Maloney, Alexander; McAllister, Liam; Silverstein, Eva) Beauty is attractive: moduli trapping at enhanced symmetry points. (English summary) **2005g:81247**
— *see also* **Felder, Gary, 2005h:81277**
Konechny, Anatoly *see* **Giveon, Amit et al., 2005h:81328**
Konoplya, Roman A. (*with* Zhidenko, A. V.) High overtones of Schwarzschild-de-Sitter quasinormal spectrum. (English summary) **2005g:83070**
Körs, Boris (*with* Nath, Pran) Hierarchically split supersymmetry with Fayet-Iliopoulos D-terms in string theory. (English summary) **2005i:81137**
— *see also* **Berg, Marcus et al., 2005b:81130** *and* **2005c:81150**
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Kovacs, S. *see* **Guralnik, Zachary et al., 2005m:81304**
Koyama, Fumikazu (*with* Tachikawa, Yuji; Watari, Taizan) Supergravity analysis of the hybrid inflation model from a D3-D7 system. (English summary) **2005f:83121**
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Kunitomo, Hiroshi Hybrid superstring on AdS_3 and space-time superconformal symmetry. (English summary) **2005j:81152**
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Lee, Bum-Hoon *see* **Cha, Kyung-Seok et al., 2005a:81163**
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— *see also* **Biswas, Rahul et al., 2005a:81151**
Lemos, José P. S. *see* **Gal'tsov, D. V. et al., 2005g:83131** *and* **Cardoso, Vitor**
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Lin, Hai[2] The supergravity dual of the BMN matrix model. (English summary) **2005j:83135**
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Liu, James T. (*with* Wen, Wen Yu; Sabra, Wafic A.) Consistent reductions of IIB*/M* theory and de Sitter supergravity. (English summary) **2005b:81152**
— Generalized holonomy in M-theory. (English summary) **2005k:81247**
— *see also* **Burrington, Benjamin A. et al., 2005j:81177** *and* **2005m:81299**
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— *see also* **Güijosa, Alberto, 2005f:81181**
Lü, Hong[1] (*with* Vázquez-Poritz, Justin F.) Non-singular twisted S-branes from rotating branes. (English summary) **2005e:81186**
— (*with* Pope, Christopher N.; Stelle, Kellogg S.) Higher-order corrections to non-compact Calabi-Yau manifolds in string theory. (English summary) **2005e:81187**
— (*with* Pope, Christopher N.; Stelle, Kellogg S.; Townsend, Paul Kingsley) Supersymmetric deformations of G_2 manifolds from higher-order corrections to string and M-theory. (English summary) **2005j:81153**
— *see also* **Cucu, Sorin et al., 2005b:83133**; **Chong, Z.-W. et al., 2005k:83176** *and* **Kerimo, Johannes, 2005k:83182**
Lukas, André (*with* Morris, Stephen) Moduli Kähler potential for M theory on a G_2 manifold. (English summary) **2005f:81194**
— (*with* Saffin, P. M.) M-theory compactification, fluxes, and AdS_4. (English summary) **2005k:81249**
— (*with* Palti, Eran; Saffin, P. M.) Type IIB conifold transitions in cosmology. (English summary) **2005k:83185**
— *see also* **Gray, James A. et al., 2005e:81177**; **Barrett, Adam B., 2005k:81207** *and* **House, Thomas, 2005k:81238**
Lunin, Oleg Adding momentum to D1-D5 system. (English summary) **2005k:81250**
— (*with* Mathur, Samir D.; Park, Inyong Y.; Saxena, Ashish) Tachyon condensation and 'bounce' in the D1-D5 system. (English summary) **2005e:81188**
Lüst, Dieter Intersecting brane worlds and their effective interactions. (English summary) **2005j:81154**
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— *see also* **Callan, Curtis G., Jr. et al., 2005e:81167**
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— Type IIA on a compact Calabi-Yau and $D = 11$ supergravity uplift of its orientifold. (English summary) **2005f:81198**
— An $\mathcal{N} = 1$ triality by spectrum matching. (English summary) **2005c:81174**
Mitra, Indrajit[2] *see* **Friess, Joshua J. et al., 2005b:83139**
Morales, José Francisco (*with* Samtleben, Henning) Higher spin holography for SYM in d dimensions. (English summary) **2005j:81185**
— *see also* **Martelli, Dario, 2005k:83186**
Moreira, E. S., Jr. *see* **De Lorenci, V. A., 2005h:83142**
Morris, Stephen *see* **Lukas, André, 2005f:81194**
Mosaffa, Amir E. *see* **Alishahiha, Mohsen et al., 2005k:81203** *and* **Ebrahim, Hajar, 2005m:81247**
Mück, Wolfgang (*with* Prisco, Maurizio) Glueball scattering amplitudes from holography. (English summary) **2005b:81155**
— *see also* **Bianchi, Massimo et al., 2005a:81149**
Murthy, Sameer Notes on non-critical superstrings in various dimensions. (English summary) **2005d:81298**
Naculich, Stephen G. *see* **Gómez-Reino, Marta et al., 2005j:81140**
Nakatsu, Toshio *see* **Fukuma, M. et al.**
Nakayama, Yu (*with* Panigrahi, Kamal L.; Rey, Soo-Jong; Takayanagi, Hiromitsu) Rolling down the throat in NS5-brane background: the case of electrified D-brane. (English summary) **2005k:81256**
Nath, Pran *see* **Körs, Boris, 2005i:81137**
Nicolai, Hermann *see* **Kleinschmidt, Axel[2], 2005g:83133**
Nielsen, Mikkel *see* **Bergshoeff, Eric et al., 2005k:83174**
Nieto, J. Antonio Towards an Ashtekar formalism in eight dimensions. (English summary) **2005k:83055**
Nilles, Hans Peter *see* **Choi, Kiwoon et al., 2005h:81267**
Nishimura, Madoka (*with* Tanii, Yoshiaki) Perturbations and supersymmetries in AdS_3/CFT_2. (English summary) **2005f:81215**
Nitta, Muneto *see* **Clark, Thomas E. et al., 2005i:81121**
Nojiri, Shin'ichi (*with* Odintsov, Sergei D.) One-loop vacuum energy and RG flow induced by double-trace operators in AdS/CFT and dS/CFT correspondence. (English summary) **2005d:81259**
Nolland, David AdS/CFT boundary conditions, multi-trace perturbations, and the c-theorem. (English summary) **2005c:81143**
— AdS/CFT boundary conditions and multi-trace perturbations for fermions. (English summary) **2005c:81144**
Nowling, Sean *see* **Biswas, Rahul et al., 2005a:81151**
Núñez, Carlos *see* **Bergamin, Luzi et al., 2005h:83247** *and* **Bertoldi, Gaetano et al., 2005k:81213**
Núñez, Carmen A. *see* **Hofman, Diego M., 2005e:81180**
Obers, Niels A. *see* **Harmark, Troels, 2005a:83059; 2005c:83036** *and* **Bertolini, Matteo et al.**
Obregón, Octavio *see* **García-Compeán, Hugo et al., 2005k:83199**
Odintsov, Sergei D. *see* **Nojiri, Shin'ichi, 2005d:81259**
Oh, John J. *see* **Kim, Won Tae et al., 2005h:83153**
Ohta, Nobuyoshi (*with* Sakaguchi, Makoto) Uniqueness of M-theory pp-wave background with extra supersymmetries. (English summary) **2005g:81255**
— *see also* **Bak, Dongsu et al., 2005b:81126** *and* **Maeda, Kei-ichi, 2005e:83119**
Olechowski, Marek *see* **Choi, Kiwoon et al., 2005h:81267**
O'Loughlin, Martin *see* **Exirifard, Ghasem, 2005k:81225**
Ooguri, Hirosi Gauge theory and string theory; an introduction to the AdS/CFT correspondence. **2005h:81310**
— (*with* Vafa, Cumrun) The C-deformation of gluino and non-planar diagrams. (English summary) **2005c:81212a**
— (*with* Vafa, Cumrun) Gravity induced C-deformation. (English summary) **2005c:81212b**
— *see also* **Kraus, Per et al., 2005b:81174**
Oprisa, Dan *see* **Kirsch, Ingo, 2005a:81176**
Orazi, E. *see* **Bellucci, Stefano et al., 2005j:81165**
Ortín, Tomás ★ Gravity and strings. **2005g:83001**
— A note on supersymmetric Gödel black holes, strings and rings of minimal $d = 5$ supergravity. (English summary) **2005k:83187**
Ott, Tassilo Aspects of stability and phenomenology in type IIA orientifolds with intersecting D6-branes. (English summary) **2005c:81176**
Palti, Eran *see* **Lukas, André et al., 2005k:83185**
Pando Zayas, Leopoldo A. (*with* Sonnenschein, Jacob; Vaman, Diana) Regge trajectories revisited in the gauge/string correspondence. (English summary) **2005g:81258**
— *see also* **Davis, Joshua L. et al., 2005g:83064; Bertoldi, Gaetano et al., 2005k:81213** *and* **Burrington, Benjamin A. et al., 2005m:81299**
Panigrahi, Kamal L. D-brane dynamics in Dp brane background. (English summary) **2005f:81201**
— *see also* **Nakayama, Yu et al., 2005k:81256**
Pankiewicz, Ari Strings in plane wave backgrounds. (English summary) **2005b:81157**
Papadimitriou, Ioannis N. (*with* Skenderis, Kostas) Correlation functions in holographic RG flows. (English summary) **2005h:81233**
Papantonopoulos, Eleftherios (*with* Zamarias, Vasilis) AdS/CFT correspondence and the reheating of the brane-universe. (English summary) **2005h:83284**
Parikh, Maulik *see* **Hamilton, Alex Jordan et al., 2005f:83129**
Park, Inyong Y. *see* **Lunin, Oleg et al., 2005e:81188**
Peet, Amanda W. *see* **Dimitriadis, Apostolos et al., 2005h:83254**
Peeters, Kasper (*with* Westerberg, Anders) The Ramond-Ramond sector of string theory beyond leading order. (English summary) **2005a:81184**
— (*with* Zamaklar, Marija) AdS/CFT description of D-particle decay. (English summary) **2005k:81258**
Perry, Malcolm J. *see* **Turok, Neil et al., 2005k:81272**
Peter, Patrick *see* **Martin, Jérôme, 2005c:83091**
Petkou, Anastasios C. *see* **Leigh, Robert G., 2005g:81279**
Petrini, Michela (*with* Russo, Rodolfo; Tanzini, Alessandro) The AdS/CFT correspondence in the PP-wave limit. (English summary) **2005c:81177**
— *see also* **Chu, Chong-Sun et al., 2005a:81166; Apreda, Riccardo et al., 2005e:81224** *and* **Graña, Mariana et al., 2005k:81313**
Philip, Simon *see* **Figueroa-O'Farrill, José et al., 2005k:81226**
Phillips, Joseph *see* **Becker, Melanie et al., 2005b:81127**
Picón, Moisés *see* **Bandos, Igor A. et al., 2005g:83129**
Pilo, Luigi (*with* Riotto, Antonio; Zaffaroni, Alberto[1]) Old inflation in string theory. (English summary) **2005e:81193**
Plefka, Jan *see* **Fischbacher, Thomas et al., 2005k:81227**
Pokorski, Stefan *see* **Choi, Kiwoon et al., 2005h:81267**
Polchinski, Joseph M theory and black hole quantum mechanics. (*see* 2005j:83002)
Pope, Christopher N. *see* **Lü, Hong[1] et al., 2005e:81187; 2005j:81153; Cvetič, Mirjam et al., 2005h:83253** *and* **Chong, Z.-W. et al., 2005k:83176**
Porrati, Massimo (*with* Rabadán, Raúl) Boundary rigidity and holography. (English summary) **2005f:53135**
Potvin, Geoff *see* **Dimitriadis, Apostolos et al., 2005h:83254**
Prisco, Maurizio *see* **Bianchi, Massimo et al., 2005a:81149** *and* **Mück, Wolfgang, 2005b:81155**
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Quevedo, Fernando *see* **Conlon, Joseph P., 2005j:81135** *and* **Burgess, Clifford P. et al., 2005j:81207**
Rabadán, Raúl *see* **Porrati, Massimo, 2005f:53135**
Rabinovici, Eliezer *see* **Giveon, Amit et al., 2005h:81328**
Radu, Eugen[2] *see* **Astefanesei, Dumitru et al., 2005a:83053**
Raeymaekers, Joris Tachyonic inflation in a warped string background. (English summary)
Rajaraman, Arvind *see* **Kumar, Jason, 2005g:83134**
Rama, S. Kalyana A description of Schwarzschild black holes in terms of intersecting M-branes and antibranes. (English summary) **2005d:83081**
Ramallo, Alfonso V. *see* **Areán, Daniel et al., 2005h:81348**
Ramírez Romero, Cupatitzio *see* **García-Compeán, Hugo et al., 2005k:83199**
Rangamani, Mukund *see* **Hubeny, Veronika E. et al., 2005m:83089**
Reall, Harvey S. Higher dimensional black holes and supersymmetry. (English summary) **2005d:83082**
— Erratum: "Higher dimensional black holes and supersymmetry" [Phys. Rev. D (3) **68** (2003), no. 2, 024024, 14 pp.; MR2033796 (2005d:83082)]. **2005j:83068**
— *see also* **Gutowski, Jan B., 2005d:83071** *and* **2005f:83054**
Rey, Soo-Jong *see* **Nakayama, Yu et al., 2005k:81256**
Ribault, Sylvain (*with* Schomerus, Volker) Branes in the 2D black hole. (English summary) **2005f:81220**
Riotto, Antonio *see* **Pilo, Luigi et al., 2005e:81193**
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Roest, Diederik *see* **Bergshoeff, Eric et al., 2005k:81210** *and* **2005k:83174**
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Ross, Simon F. *see* **Dimitriadis, Apostolos et al., 2005d:83146** *and* **2005h:83254**
Ruchayskiy, Oleg *see* **Boyarskiĭ, A. M. et al., 2005k:81215**
Rühl, Werner The production of masses for higher spin gauge fields on AdS(4) from AdS/CFT correspondence. (English summary) **2005m:83084**
Russo, Jorge G. Spinning strings in $AdS_5 \times S^5$ and integrable systems. (English summary) **2005b:81158**
— Preface: Lectures from the European RTN Winter School on Strings, Supergravity and Gauge Fields, Barcelona, 12–16 January 2004.
Russo, Rodolfo *see* **Chu, Chong-Sun et al., 2005a:81166; Petrini, Michela et al., 2005c:81177** *and* **Lee, Sangmin, 2005h:81300**
Sabra, Wafic A. *see* **Liu, James T. et al., 2005b:81152** *and* **Gutperle, Michael, 2005f:83117**

Sachs, Ivo Quasi normal modes. (English summary) **2005c:83042**
Sadri, Darius (*with* Sheikh-Jabbari, Mohammad M.) Giant hedge-hogs: spikes on giant gravitons. (English summary) **2005a:81233**
Saffin, P. M. *see* **Lukas, André et al., 2005k:81249** *and* **2005k:83185**
Sahakyan, David A. *see* **Aharony, Ofer et al., 2005d:81268**
Saidi, El Hassan NC geometry and fractional branes. (English summary) **2005b:81218**
Sakaguchi, Makoto (*with* Yoshida, Kentaroh) Dirichlet branes of the covariant open supermembrane on a pp-wave background. (English summary) **2005c:81178**
— (*with* Yoshida, Kentaroh) Dirichlet branes of the covariant open supermembrane in $AdS_4 \times S^7$ and $AdS_7 \times S^4$. (English summary) **2005a:81186**
— (*with* Yoshida, Kentaroh) Notes on D-branes of type IIB string on $AdS_5 \times S^5$. (English summary) **2005b:81159**
— *see also* **Ohta, Nobuyoshi, 2005g:81255**
Sakellariadou, M. *see* **Durrer, Ruth et al., 2005k:83197**
Salizzoni, Mario *see* **Dorn, Harald et al., 2005d:81331**
Saltman, Alex (*with* Silverstein, Eva) The scaling of the no-scale potential and de-Sitter model building. (English summary) **2005i:81143**
Sami, Mohammad *see* **Garousi, Mohammad R. et al., 2005j:83149**
Samtleben, Henning *see* **de Wit, Bernard et al., 2005d:83150** *and* **Morales, José Francisco, 2005j:81185**
Sarıoğlu, Özgür *see* **Deger, Nihat Sadik, 2005j:83132**
Sato, Matsuo (*with* Tsuchiya, Asato) M5-brane effective action as an on-shell action in supergravity. (English summary) **2005h:83259**
— (*with* Tsuchiya, Asato) A note on Hamilton-Jacobi formalism and D-brane effective actions. (English summary) **2005a:81187**
— *see also* **Das, Ashok et al., 2005k:81222**
Saxena, Ashish *see* **Lunin, Oleg et al., 2005e:81188**
Schalm, Koenraad Eduard *see* **de Boer, Jan et al., 2005m:81232** *and* **2005m:81233**
Schnitzer, Howard J. *see* **Gómez-Reino, Marta et al., 2005j:81140**
Schomerus, Volker *see* **Ribault, Sylvain, 2005f:81220**
Schulz, Michael Brian Superstring orientifolds with torsion: O5 orientifolds of torus fibrations and their massless spectra. (English summary) **2005m:81265**
— *see also* **Kachru, Shamit et al., 2005e:81181**
Schwarz, John H. *see* **Schwarz, Patricia M., 2005b:83001**
Schwarz, Patricia M. (*with* Schwarz, John H.) ★ Special relativity. **2005b:83001**
Scrucca, Claudio A. Mediation of supersymmetry breaking in extra dimensions. (English summary) **2005h:81384**
Sen, Ashoke Open and closed strings from unstable D-branes. (English summary) **2005b:81163**
Sever, Amit *see* **Giveon, Amit et al., 2005h:81328**
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Sharpe, Eric *see* **Biswas, Rahul et al., 2005a:81151** *and* **Becker, Katrin et al., 2005h:81258**
Sheikh-Jabbari, Mohammad M. *see* **Sadri, Darius, 2005a:81233**
Shen, You-Gen *see* **Shu, Fu-Wen, 2005h:83127**
Shenker, Stephen *see* **Kraus, Per et al., 2005b:81174**; **Fidkowski, Lukasz et al., 2005g:83066** *and* **Hubeny, Veronika E. et al., 2005m:83089**
Shepard, Peter G. *see* **Hořava, Petr, 2005m:81259**
Shiu, Gary (*with* Wang, Lian-Tao) D matter. (English summary) **2005d:81303**
— *see also* **Marchesano, Fernando, 2005k:81252**
Shomer, Assaf Counting black hole microstates using string dualities. (English summary) **2005g:83076**
Shu, Fu-Wen (*with* Shen, You-Gen) Quasinormal modes of charged black holes in string theory. (English summary) **2005h:83127**
Sieg, Christoph *see* **Dorn, Harald et al., 2005d:81331**
Silverstein, Eva (*with* Tong, David) Scalar speed limits and cosmology: acceleration from D-cceleration. (English summary) **2005k:81264**
— *see also* **Kofman, Lev et al., 2005g:81247** *and* **Saltman, Alex, 2005i:81143**
Singh, Harvendra Generalised Penrose limits and pp-waves. (English summary) **2005e:81199**
Sinkovics, Annamaria *see* **Dijkgraaf, Robbert et al., 2005i:81161**
Siopsis, George On quasi-normal modes and the AdS_5/CFT_4 correspondence. (English summary) **2005k:81265**
Skenderis, Kostas *see* **Papadimitriou, Ioannis N., 2005h:81233**
Smedbäck, Mikael Pulsating strings on $AdS_5 \times S^5$. (English summary) **2005e:81200**
Smet, Geert (*with* Van den Bergh, Joris) O3/O7 orientifold truncations and very special quaternionic-Kähler geometry. (English summary) **2005k:81266**
Soda, Jiro *see* **Kanno, Sugumi, 2005a:83099** *and* **2005k:83201**
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Staudacher, Matthias *see* **Beisert, Niklas et al., 2005g:81224** *and* **Arutyunov, Gleb E. et al., 2005i:81118**
Stefański, Bogdan, Jr. (*with* Tseytlin, A. A.) Large spin limits of AdS/CFT and generalized Landau-Lifshitz equations. (English summary) **2005d:81345**
Steinhardt, Paul J. *see* **Turok, Neil et al., 2005k:81272**
Stelle, Kellogg S. *see* **Lü, Hong[1] et al., 2005e:81187** *and* **2005j:81153**
Strominger, Andrew *see* **Karczmarek, Joanna L., 2005k:81243**
Sugawara, Yuji *see* **Eguchi, Tohru, 2005h:81324**
Sundell, P. *see* **Arapoglu, Savas et al., 2005g:81222**
Suryanarayana, Nemani V. *see* **Gauntlett, Jerome P. et al., 2005g:83132**
Susskind, Leonard *see* **Goheer, Naureen et al., 2005h:81282** *and* **Freivogel, B., 2005i:81128**
Swanson, Ian *see* **Callan, Curtis G., Jr. et al., 2005e:81167** *and* **McLoughlin, Tristan, 2005f:81196**
Tachikawa, Yuji *see* **Koyama, Fumikazu et al., 2005f:83121**
Takayanagi, Hiromitsu *see* **Nakayama, Yu et al., 2005k:81256**
Takayanagi, Tadashi *see* **Headrick, Matthew et al., 2005m:81255**
Takemae, S. *see* **Gunaydin, Murat**
Tanii, Yoshiaki *see* **Nishimura, Madoka, 2005f:81215**
Tanzini, Alessandro *see* **Chu, Chong-Sun et al., 2005a:81166** *and* **Petrini, Michela et al., 2005c:81177**
Taormina, Anne *see* **Englert, François et al., 2005b:81139**
Temürhan, Mine *see* **Dijkgraaf, Robbert et al., 2005i:81161**
Teo, Edward A no-go theorem for accelerating cosmologies from M-theory compactifications. (English summary) **2005i:83142**
Terachi, Hidenori *see* **Iso, Satoshi et al., 2005j:81148**
Teschner, Jörg *see* **McGreevy, John et al., 2005b:81175**
Thambyahpillai, Shiyamala A closer look at two AdS_4 branes in an AdS_5 bulk. (English summary) **2005k:81268**
Theis, Ulrich *see* **Davidse, Marijn et al., 2005h:81271** *and* **2005k:81223**
Tirziu, Alin (*with* Fendley, Paul) Strings on type-IIB pp-wave backgrounds with interacting massive theories on the worldsheet. (English summary) **2005a:81192**
Tomasiello, Alessandro *see* **Graña, Mariana et al., 2005k:81313**
Tong, David *see* **Silverstein, Eva, 2005k:81264**
Townsend, Paul Kingsley The story of M. (*see* **2005j:83002**)
— *see also* **Lü, Hong[1] et al., 2005j:81153**
Travaglini, Gabriele *see* **Georgiou, George, 2005b:81191**
Trigiante, Mario *see* **de Wit, Bernard et al., 2005d:83150**
Tripathy, Prasanta K. *see* **Giryavets, Alexander et al., 2005e:81176**
Trivedi, Sandip P. *see* **Giryavets, Alexander et al., 2005e:81176** *and* **Kachru, Shamit et al., 2005e:81181**
Troncoso, Ricardo *see* **Hassaïne, Mokhtar et al., 2005d:83115**
Troost, Jan A note on causality in the bulk and stability on the boundary. (English summary) **2005a:81234**
Tseytlin, A. A. Semiclassical relativistic strings in $AdS_5 \times S^5$ and long scalar operators in $\mathcal{N} = 4$ SYM theory. (English and French summaries) **2005k:81330**
— *see also* **Stefański, Bogdan, Jr., 2005d:81345** *and* **Beisert, Niklas et al., 2005g:81224**
Tsuchiya, Asato *see* **Sato, Matsuo, 2005a:81187**; **2005h:83259** *and* **Fukuma, M. et al.**
Tsujikawa, Shinji *see* **Garousi, Mohammad R. et al., 2005j:83149**
Turok, Neil (*with* Perry, Malcolm J.; Steinhardt, Paul J.) M theory model of a big crunch/big bang transition. (English summary) **2005k:81272**
Tye, S.-H. Henry *see* **Leblond, Louis, 2005a:81179**
Umetsu, Hiroshi *see* **Iso, Satoshi et al., 2005j:81148**
Uranga, Angel M. *see* **Cascales, Juan F. G., 2005d:81274**
Vafa, Cumrun *see* **Ooguri, Hirosi, 2005c:81212a** *and* **2005c:81212b**
Vaman, Diana *see* **Pando Zayas, Leopoldo A. et al., 2005g:81258**; **Davis, Joshua L. et al., 2005g:83064** *and* **Burrington, Benjamin A. et al., 2005m:81299**
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Vandoren, Stefan *see* **Bergshoeff, Eric et al., 2005c:83079**; **2005k:81210**; **Davidse, Marijn et al., 2005h:81271** *and* **2005k:81223**
Van Proeyen, Antoine *see* **Bergshoeff, Eric et al., 2005c:83079**
Vanzo, Luciano *see* **Klemm, Dietmar, 2005j:83036**
Varela, Oscar *see* **Bandos, Igor A. et al., 2005g:83129**
Vargas Moniz, P. $N = 2$ supersymmetric FRW quantum cosmology from a D-p-brane gas. (English summary) **2005h:83078**
Vasil'ev, M. A. Progress in higher spin gauge theories. (English summary) **2005a:81146**
Vaulà, Silvia *see* **Dall'Agata, Gianguido et al., 2005g:83130**
Vázquez-Poritz, Justin F. *see* **Cucu, Sorin et al., 2005b:83133** *and* **Lü, Hong[1], 2005e:81186**
ter Veldhuis, T. *see* **Clark, Thomas E. et al., 2005i:81121**
Veneziano, Gabriele *see* **Gasperini, M. et al., 2005b:83140**
Verbin, Y. (*with* Larsen, A. L.) Nonsingular stationary global strings. (English summary) **2005h:83287**
— (*with* Larsen, A. L.) Non-singular global cosmic strings. (English summary) **2005m:83166**
Verlinde, Herman *see* **McGreevy, John et al., 2005b:81175**
Vieira, Pedro G. Late-time cosmic dynamics from M-theory. (English summary) **2005a:83150**
Viswanathan, Kadayam Sankaran *see* **Matlock, P., 2005j:81156**
de Vroome, M. *see* **Davidse, Marijn et al., 2005h:81271**
Wang, Lian-Tao *see* **Shiu, Gary, 2005d:81303**
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Watson, Scott *see* **Battefeld, Thorsten, 2005h:83262**
Wen, Wen Yu *see* **Liu, James T. et al., 2005b:81152**
West, Peter C. The IIA, IIB and eleven-dimensional theories and their common E_{11} origin. (English summary) **2005m:81269**
— Some simple predictions from E_{11} symmetry. (English summary) **2005g:81263**
— *see also* **Englert, François et al., 2005b:81139**
Westerberg, Anders *see* **Peeters, Kasper, 2005a:81184**
Wheeler, James T. *see* **Anderson, Lara B., 2005a:83132**
Wijnhout, Jeroen *see* **de Boer, Jan et al., 2005m:81232** *and* **2005m:81233**
Williams, Brook *see* **Hellerman, Simeon et al., 2005j:81144**
Wiśniewski, Jacek *see* **Louko, Jorma, 2005m:83071**
de Wit, Bernard (*with* Samtleben, Henning; Trigiante, Mario) Maximal supergravity from IIB flux compactifications. (English summary) **2005d:83150**
de Wit, Tim *see* **Bergshoeff, Eric et al., 2005c:83079**
Witten, Edward The past and future of string theory. (*see* **2005j:83002**)
Wu, Shuang-Qing New formulation of the first law of black hole thermodynamics: a stringy analogy. (English summary) **2005h:83134**
Yang, Hyun Seok *see* **Cha, Kyung-Seok et al., 2005a:81163**
Yee, Ho-Ung *see* **Bak, Dongsu, 2005c:83058**
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Yoon, Myung Seok *see* **Kim, Won Tae et al., 2005h:83153**
Yoshida, Kentaroh *see* **Sakaguchi, Makoto, 2005a:81186**; **2005b:81159**; **2005c:81178** *and* **Kimura, Tetsuji, 2005c:83084**
Zaffaroni, Alberto[1] *see* **Pilo, Luigi et al., 2005e:81193**
Zagermann, Marco *see* **Dasgupta, Keshav et al., 2005h:81270**
Zamaklar, Marija *see* **Peeters, Kasper, 2005k:81258**
Zamarias, Vasilis *see* **Papantonopoulos, Eleftherios, 2005h:83284**
Zanelli, Jorge *see* **Hassaïne, Mokhtar et al., 2005d:83115**

Zarembo, Konstantin Semiclassical integrability in AdS/CFT. (English and French summaries) **2005k:81277**
— *see also* **Kazakov, Vladimir Aleksandrovich[1] et al., 2005g:81244**
Zhidenko, A. V. *see* **Konoplya, Roman A., 2005g:83070**
Zwiebach, Barton ★ A first course in string theory. **2005e:81204**

Items listed otherwise than by author

Paris ★ Strings 04. Part I. **2005j:81002**
— ★ Strings 04. Part II. **2005j:81003**
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Strings 04. Part II ★ Strings 04. Part II. **2005j:81003**

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— (*with* Sakamura, Yutaka) Superfield description of 5D supergravity on general warped geometry. (English summary) **2005j:83127**
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— (*with* de Azcárraga, José A.; Picón, Moisés; Varela, Oscar) On the formulation of $D=11$ supergravity and the composite nature of its three-form gauge field. (English summary) **2005k:83173**
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— (*with* Cucu, Sorin; de Wit, Tim; Gheerardyn, Jos; Vandoren, Stefan; Van Proeyen, Antoine) $N=2$ supergravity in five dimensions revisited. (English summary) **2005c:83079**
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— (*with* Gibbons, Gary W.; Pope, Christopher N.) Ghost-free de Sitter supergravities as consistent reductions of string and M-theory. (English summary) **2005h:83253**
— *see also* **Chong, Z.-W. et al., 2005m:83146**
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— *see also* **Celi, Alessio et al., 2005k:83175**
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— (*with* Ferrara, Sergio; Trigiante, Mario) No-scale supergravity from higher dimensions. (English and French summaries) **2005k:83177**
— *see also* **Dall'Agata, Gianguido et al., 2005g:83130**
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Frey, Andrew R. Notes on SU(3) structures in type IIB supergravity. (English summary)

2005e:83104
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— *see also* **Clément, Gérard et al.**, 2005m:83147
Gates, S. James, Jr. (*with* Kiss, Annamária; Merrell, Willie) Dynamical equations from a first-order perturbative superspace formulation of 10D, $\mathcal{N} = 1$ string-corrected supergravity. I. (English summary) **2005k:83179**
— *see also* **Bukhbinder, I. L. et al.**, 2005f:83111
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— (*with* Gutowski, Jan B.; Suryanarayana, Nemani V.) A deformation of $AdS_5 \times S^5$. (English summary) **2005g:83132**
— (*with* Gutowski, Jan B.) Erratum: "Supersymmetric solutions of minimal gauged supergravity in five dimensions" [Phys. Rev. D (3) **68** (2003), no. 10, 105009, 13 pp.; MR2071060 (2005e:83106)]. **2005j:83133**
— Classifying supergravity solutions. (English summary) **2005m:83148**
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Ghezelbash, Amir Masoud *see* **Clarkson, Richard et al.**, 2005f:83113
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— *see also* **Cariglia, Marco et al.**, 2005e:83103 *and* **Cvetič, Mirjam et al.**, 2005h:83253
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Gregoire, Thomas (*with* Schwartz, Matthew D.; Shadmi, Yael) Massive supergravity and deconstruction. (English summary) **2005d:83148**
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Kallosh, Renata (*with* Kofman, Lev; Linde, Andrei D.; Van Proeyen, Antoine) Corrigendum: "Superconformal symmetry, supergravity and cosmology" [Classical Quantum Gravity **17** (2000), no. 20, 4269–4337; MR1791776 (2001h:83106)].
— *see also* **Binétruy, Pierre et al.**, 2005d:83143
Kerimo, Johannes (*with* Liu, James T.; Lü, Hong[1]; Pope, Christopher N.) Variant $\mathcal{N} = (1, 1)$ supergravity and $(\text{Minkowski})_4 \times S^2$ vacua. (English summary) **2005c:83083**
— (*with* Lü, Hong[1]; Pope, Christopher N.; Liu, James T.) Supergravities with Minkowski × sphere vacua. (English summary) **2005h:83258**
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— (*with* Samtleben, Henning; Trigiante, Mario) Maximal supergravity from IIB flux compactifications. (English summary) **2005d:83150**
— (*with* Samtleben, Henning) Gauged maximal supergravities and hierarchies of nonabelian vector-tensor systems. (English summary) **2005m:83150**
— (*with* Samtleben, Henning; Trigiante, Mario) The maximal $D=5$ supergravities. (English summary) **2005m:83151**
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Adam, Ido (*with* Oz, Yaron) Gravitational F-terms of $\mathcal{N}=1$ supersymmetric gauge theories. (English summary) **2005h:81345**
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— *see also* **Becker, Katrin et al., 2005b:83108**
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Beisert, Niklas (*with* Bianchi, Massimo; Morales, José Francisco; Samtleben, Henning) On the spectrum of AdS/CFT beyond supergravity. (English summary) **2005b:83109**
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— (*with* Liu, James T.; Pando Zayas, Leopoldo A.; Vaman, Diana) Holographic duals of flavored $\mathcal{N}=1$ super Yang-Mills: beyond the probe approximation. (English summary) **2005m:81299**
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Cariglia, Marco (*with* Lechner, Kurt) Intersecting D-branes, Chern-kernels and the inflow mechanism. (English summary) **2005j:83109**
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(Duplij, S. A.) *see* **Concise encyclopedia of supersymmetry and noncommutative structures in mathematics and physics, 2005m:81001**
Edelstein, José D. (*with* Mas, Javier) Localized intersections of non-extremal p-branes and S-branes. (English summary) **2005d:83135**
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Umetsu, Hiroshi *see* **Iso, Satoshi et al., 2005j:81148**
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Vaman, Diana *see* **Burrington, Benjamin A. et al., 2005m:81299**
Varela, Oscar *see* **de Azcárraga, José A. et al., 2005d:81326**
Vasil'ev, M. A. Progress in higher spin gauge theories. (English summary) **2005a:81146**
Vaulà, Silvia $N = 4$ supergravity for type IIB on $T^6/\mathbb{Z}_2$ in presence of fluxes. (English summary) **2005b:83131**
Vázquez-Poritz, Justin F. *see* **Lü, Hong[1], 2005d:83120**
Waldram, Daniel *see* **Gauntlett, Jerome P. et al., 2005h:53040**
Wang, John E. Twisting S-branes. (English summary) **2005d:83141**
Warner, Nicholas P. *see* **Pope, Christopher N., 2005f:83107**
Wen, Wen Yu *see* **Liu, James T. et al., 2005b:81152**
West, Peter C. E_{11} origin of brane charges and U-duality multiplets. (English summary) **2005h:81320**
— *see also* **Kleinschmidt, Axel[2] et al., 2005k:81107** *and* **Cook, Paul P., 2005k:83152**
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Yajima, Satoshi *see* **Higasida, Yoji et al., 2005g:81291**
Young, Donovan *see* **Semenoff, Gordon W.**
Zanelli, Jorge *see* **Hassaïne, Mokhtar et al., 2005d:83115**

Items listed otherwise than by author

Concise encyclopedia of supersymmetry and noncommutative structures in mathematics and physics ★ Concise encyclopedia of supersymmetry and noncommutative structures in mathematics and physics. **2005m:81001**

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Items with secondary classifications in 83E99

Bizdadea, Constantin (*with* Ciobîrcă, Costin-Cătălin; Cioroianu, Eugen Mihăiță; Saliu, Solange-Odile; Săraru, S. C.) Interactions of a massless tensor field with the mixed symmetry of the Riemann tensor. No-go results. (English summary) **2005h:81386**
Ciobîrcă, Costin-Cătălin *see* **Bizdadea, Constantin et al., 2005h:81386**
Cioroianu, Eugen Mihăiță *see* **Bizdadea, Constantin et al., 2005h:81386**
Saliu, Solange-Odile *see* **Bizdadea, Constantin et al., 2005h:81386**
Săraru, S. C. *see* **Bizdadea, Constantin et al., 2005h:81386**

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Abdalla, Elcio (*with* Casali, Adenauer G.; Cuadros-Melgar, Bertha) Shortcuts in cosmological branes. (English summary) **2005f:83127**
Abdalla, M. C. B. (*with* Nojiri, Shin'ichi; Odintsov, Sergei D.) Consistent modified gravity: dark energy, acceleration and the absence of cosmic doomsday. (English summary) **2005j:83139**
Acquaviva, Viviana (*with* Baccigalupi, Carlo; Perrotta, Francesca) Weak lensing in generalized gravity theories. (English summary)
Aguilar, José Edgar Madriz (*with* Bellini, Mauricio) The evolution of the universe from non-compact Kaluza-Klein theory. (English summary) **2005h:83260**
Aguirregabiria, Juan M. (*with* Lazkoz Saez, R.) Tracking solutions in tachyon cosmology. (English summary)
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Akguc, Gursoy B. (*with* Reichl, L. E.; Derishev, E. V.; Kocharovskiĭ, Vl. V.; Kocharovskiĭ, V. V.) Nonlinear dynamics of gravity and matter creation in a cosmology with an unbounded Hamiltonian. (English summary) **2005k:83192**
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— *see also* **Maia, M. D. et al., 2005m:83160**
Allahverdi, Rouzbeh (*with* Bird, Chris; Groot Nibbelink, Stefan; Pospelov, Maxim) Cosmological bounds on large extra dimensions from nonthermal production of Kaluza-Klein modes. (English summary)
Alvarenga, F. G. (*with* Batista, A. B.; Fabris, J. C.) Does quantum cosmology predict a constant dilatonic field? (English summary)
Arbab, Arbab I. A quantum universe and the solution to the cosmological problems. (English summary)
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— (*with* Cheng, Hsin-Chia; Luty, Markus A.; Mukohyama, Shinji) Ghost condensation and a consistent infrared modification of gravity. (English summary) **2005d:83151**
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Avachar, G. R. *see* **Khadekar, G. S.**
Avelino, P. P. (*with* Martins, C. J. A. P.; Oliveira, J. C. R. E.) Linearized Bekenstein varying α models. (English summary)
Babichev, E. (*with* Dokuchaev, Vyacheslav; Eroshenko, Yu.) Dark energy cosmology with generalized linear equation of state. (English summary)
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Balasubramanian, Vijay Accelerating universes and string theory. (English summary) **2005e:83111**
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Baranov, A. M. (*with* Baranov, D. A.) Open universe model: description by Mathieu functions. (English and Russian summaries)
Baranov, D. A. *see* **Baranov, A. M.**
Barrow, John D. Cosmology and immutability.
— (*with* Kimberly, Dagny; Magueijo, João) Bouncing universes with varying constants. (English summary) **2005d:83152**
Bartolo, N. (*with* Komatsu, Eiichiro; Matarrese, S.; Riotto, Antonio) Non-Gaussianity from inflation: theory and observations. (English summary) **2005g:83137**
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— (*with* Brandenberger, Robert H.) Vector perturbations in a contracting Universe. (English summary) **2005i:83134**
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Benini, Riccardo (*with* Montani, Giovanni) Frame independence of the inhomogeneous mixmaster chaos via Misner-Chitré-like variables. (English summary)
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— *see also* **Bento, M. C. et al.**
Bhattacharjee, Ratnajit (*with* Baruah, K. K.) Bianchi III string cosmology. (English summary)
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— *see also* **Battefeld, Thorsten, 2005i:83134**
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— (*with* Lazkoz Saez, R.) Atypical k-essence cosmologies. (English summary) **2005j:83144**
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— *see also* **Mizuno, Shuntaro et al.**
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Creminelli, Paolo (*with* Zaldarriaga, Matias) A single-field consistency relation for the three-point function. (English summary)
— *see also* **Arkani-Hamed, Nima et al., 2005h:83261**
Criado, C. (*with* Alamo, N.) The cosmological principle and honeycombs. (English summary) **2005e:83114**
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Di Menza, Laurent (*with* Lehner, Thierry) The chaotic mixmaster and the suppression of chaos in scalar-tensor cosmologies. (English summary) **2005j:83145**
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Efremov, Vladimir N. (*with* Mitskevich, Nikolai Vsevolodovich; Hernández Magdaleno, Alfonso M.) T_0-discrete cosmological models with a set of fundamental interactions. (English and Russian summaries) **2005g:83142**
Ellis, Jonathan Richard (*with* Mavromatos, Nikolaos E.; Nanopoulos, Dimitri; Sakharov, Alexander S.) Brany Liouville inflation. (English summary) **2005m:83156**
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Eroshenko, Yu. *see* **Babichev, E. et al.**
Fabris, J. C. *see* **Alvarenga, F. G. et al.**
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Govender, M. (*with* Govinder, K. S.) Generalized isothermal universes. (English summary)
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— *see also* **Errata: "Evolution of cosmological perturbations in the universe dominated by resonant scalar fields", 2005i:83139b**
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"Evolution of cosmological perturbations in the universe dominated by resonant scalar fields" Erratum to: "Evolution of cosmological perturbations in the universe dominated by resonant scalar fields" [Nuclear Phys. B **698** (2004), no. 1-2, 335–385; MR2092817 (2005i:83139a)] by T. Hamazaki. **2005i:83139b**

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Abdussattar Cosmological models generalizing Robertson-Walker models. (English summary) **2005c:83006**

Achúcarro, Ana (*with* Urrestilla, Jon) F-term strings in the Bogomolnyi limit are also BPS states. (English summary) **2005h:81344**

Aguilar, José Edgar Madriz (*with* Bellini, Mauricio) Noncompact Kaluza-Klein theory and inflationary cosmology: a complete formalism. (English summary) **2005d:83101**

Alexander, Stephon (*with* Malecki, Justin John; Smolin, Lee) Quantum gravity and inflation. (English summary) **2005i:83034**

Allemandi, Gianluca (*with* Borowiec, Andrzej; Francaviglia, Mauro) Accelerated cosmological models in first-order nonlinear gravity. (English summary) **2005h:83161**

Anderson, Edward (*with* Barbour, Julian; Foster, Brendan Z.; Ó Murchadha, Niall) Scale-invariant gravity: geometrodynamics. (English summary) **2005a:83087**

Apostolopoulos, Pantelis S. (*with* Tetradis, Nikolaos) Brane cosmology with matter in the bulk. I. (English summary) **2005g:83099**

Bagchi, Arjun (*with* Rama, S. Kalyana) Cosmology and static spherically symmetric solutions in D-dimensional scalar-tensor theories: some novel features. (English summary) **2005k:83113**

Banks, Tom Supersymmetry, the cosmological constant, and a theory of quantum gravity in our universe. (English summary) **2005d:83040**

Barbosa, G. D. Noncommutative conformally coupled scalar field cosmology and its commutative counterpart. (English summary) **2005k:83099**

Barbour, Julian *see* **Anderson, Edward et al., 2005a:83087**

Barnaby, Neil (*with* Burgess, Clifford P.; Cline, James M.) Warped reheating in brane-antibrane inflation. (English summary) **2005k:83123**

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Bellini, Mauricio *see* **Aguilar, José Edgar Madriz, 2005d:83101**

Benacquista, M. J. *see* **Sedrakyan, D. M. et al.**

Benini, Riccardo (*with* Kirillov, Aleksandr Albertovich; Montani, Giovanni) Oscillatory regime in the multidimensional homogeneous cosmological models induced by a vector field. (English summary) **2005m:83117**

Bennett, Charles L. Astrophysical observations: lensing and eclipsing Einstein's theories. (English summary) **2005h:83012**

Bergshoeff, Eric (*with* Collinucci, Andres; Gran, Ulf; Nielsen, Mikkel; Roest, Diederik) Transient quintessence from group manifold reductions or how all roads lead to Rome. (English summary) **2005b:83088**

Berkooz, Micha (*with* Craps, Ben; Kutasov, David; Rajesh, Govindan) Comments on cosmological singularities in string theory. (English summary) **2005b:83111**

Bezerra, Valdir B. (*with* Ferreira, Cristine N.; Fonseca-Neto, J. B.; Rodrigues Sobreira, A. A.) Gravitational field around a timelike current-carrying screwed cosmic string in scalar-tensor theories. (English summary) **2005a:83083**

Bičák, Jiří (*with* Lynden-Bell, Donald; Katz, Joseph[1]) Toroidal perturbations of Friedmann-Robertson-Walker universes. (English summary) **2005g:83033**

Binétruy, Pierre Brane (new) worlds. (*see* **2005j:83002**)

— (*with* Dvali, Gia; Kallosh, Renata; Van Proeyen, Antoine) Fayet-Iliopoulos terms in supergravity and cosmology. (English summary) **2005d:83143**

Biswas, Tirthabir (*with* Jaikumar, Prashanth) Cosmology from moduli dynamics. (English summary) **2005h:83219**

Blanco-Pillado, Jose J. (*with* Burgess, Clifford P.; Cline, James M.; Escoda, Cristina; Gómez-Reino, Marta; Kallosh, Renata; Linde, Andrei D.; Quevedo, Fernando) Racetrack inflation. (English summary) **2005h:83220**

Bojowald, Martin (*with* Lidsey, James E.; Mulryne, David J.; Singh, Parampreet; Tavakol, Reza) Inflationary cosmology and quantization ambiguities in semiclassical loop quantum gravity. (English summary) **2005h:83065**

Borowiec, Andrzej *see* **Allemandi, Gianluca et al., 2005h:83161**

Bounias, Michel (*with* Krasnoholovets, Volodymyr) Scanning the structure of ill-known spaces. III. Distribution of topological structures at elementary and cosmic scales. (English summary) **2005a:00008**

Boyadzhiev, Todor *see* **Saha, Bijan, 2005e:83020**

Brandenberger, Robert H. (*with* Randjbar-Daemi, Seif) Inflation in 6D gauged supergravity. (English summary) **2005i:83129**

Brax, Philippe (*with* van de Bruck, Carsten; Davis, Anne Christine) Brane world cosmology. (English summary) **2005m:83119**

Brodie, John H. (*with* Easson, Damien A.) Brane inflation and reheating. (English summary) **2005h:83179**

Brozos-Vázquez, Miguel (*with* García-Río, Eduardo; Vázquez-Lorenzo, Ramón) Locally conformally flat multidimensional cosmological models and generalized Friedmann-Robertson-Walker spacetimes. (English summary) **2005i:83101**

van de Bruck, Carsten *see* **Brax, Philippe et al., 2005m:83119**

Buchan, S. E. Shandera (*with* Shlaer, Benjamin; Stoica, Horace; Tye, S.-H. Henry) Inter-brane interactions in compact spaces and brane inflation. (English summary) **2005h:83222**

Buchmüller, Wilfried (*with* Hamaguchi, Koichi; Lebedev, Oleg Valerievich; Ratz, Michael[2]) Maximal temperature in flux compactifications. (English summary) **2005j:83108**

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— (*with* Quevedo, Fernando; Rabadán, Raúl; Tasinato, Gianmassimo; Zavala C., Ivonne) On bouncing brane worlds, S-branes and branonium cosmology. (English summary) **2005h:83181**

— (*with* Cline, James M.; Stoica, Horace; Quevedo, Fernando) Inflation in realistic D-brane models. (English summary) **2005g:83116**

— (*with* Matias, Joaquim; Quevedo, Fernando) MSLED: a minimal supersymmetric large extra dimensions scenario. (English summary) **2005j:81207**

— *see also* **Blanco-Pillado, Jose J. et al., 2005h:83220** *and* **Barnaby, Neil et al., 2005k:83123**

de Buyl, Sophie (*with* Pinardi, Gaïa; Schomblond, Christiane) Einstein billiards and spatially homogeneous cosmological models. (English summary) **2005a:83028**

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Calcagni, Gianluca Consistency relations and degeneracies in (non)commutative patch inflation. (English summary) **2005h:83138**

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Casali, Adenauer G. (*with* Abdalla, Elcio; Wang, Bin[2]) Brane world cosmological perturbations. (English summary) **2005h:83183**

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Chakraborty, Subenoy (*with* Debnath, Ujjal) A study of higher dimensional inhomogeneous cosmological model. (English summary) **2005g:83101**

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Cognola, Guido (*with* Elizalde, Emilio; Nojiri, Shin'ichi; Odintsov, Sergei D.; Zerbini, Sergio) One-loop $f(R)$ gravity in de Sitter universe. (English summary) **2005j:81117**

Coley, Alan A. (*with* He, Yanjing; Lim, Woei Chet) Isotropic singularity in inhomogeneous brane cosmological models. (English summary) **2005c:83061**

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Comelli, Denis (*with* Dolgov, Alexander) Determinant-gravity: cosmological implications. (English summary) **2005h:83166**

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— (*with* Myers, Robert C.; Polchinski, Joseph) Cosmic F- and D-strings. (English summary) **2005k:83153**

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Dariescu, Ciprian *see* **Dariescu, Marina-Aura, 2005m:83053**

Dariescu, Marina-Aura (*with* Dariescu, Ciprian) Scalar and electromagnetic configurations in $k = 1$ Friedmann-Robertson-Walker universes. (English summary) **2005m:83053**

Date, Ghanashyam (*with* Hossain, Golam Mortuza) Genericness of inflation in isotropic loop quantum cosmology. (English summary) **2005h:83069**

D'Auria, Riccardo (*with* Ferrara, Sergio; Trigiante, Mario) No-scale supergravity from higher dimensions. (English and French summaries) **2005k:83177**

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Davis, Tamara M. *see* **Davies, Paul C. W., 2005a:83056**

Debnath, Ujjal *see* **Chakraborty, Subenoy, 2005g:83101**

Deo, S. D. Nil contribution of cosmic strings to plane symmetric space-time in bimetric relativity. (English summary)

Deshamukhya, Atri *see* **Chingangbam, Pravabati et al., 2005k:83151**

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— (*with* Timirgaziu, Maria-Cristina) Non-tachyonic Scherk-Schwarz compactifications, cosmology and moduli stabilization. (English summary) **2005a:83116**

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— From a vacuum nonsingular black hole to a variable cosmological constant. (English summary)

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Ellis, George F. R. Cosmological perturbations and singularities. (English summary) (*see* **2005j:83002**)

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Flanagan, Éanna É. The conformal frame freedom in theories of gravitation. Reply to comment: "On the viability of the Palatini form of $1/R$ gravity" [Classical Quantum Gravity **21** (2004), no. 15, 3813–3816; MR2079946 (2005e:83072b)] by D. N. Vollick. (English summary) **2005e:83072c**

— Palatini form of $1/R$ gravity. (English summary) **2005e:83072a**

— Erratum: "Palatini form of $1/R$ gravity" [Phys. Rev. Lett. **92** (2004), no. 7, 071101, 4 pp.; MR2069630 (2005e:83072a)]. **2005j:83081**

— *see also* **Vollick, Dan N., 2005e:83072b**

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— (*with* Leeper, Emily; Maartens, Roy) Asymmetric radiating brane-world. (English summary)
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Hogan, P. A. (*with* O'Shea, E. M.) Erratum: "Gravitational wave propagation in isotropic cosmologies" [Phys. Rev. D. (3) **65** (2002), no. 12, 124017, 12 pp.; MR1926195 (2003i:83023)]. **2005h:83107**
Horowitz, Gary T. *see* **Hertog, Thomas, 2005e:83107**
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— (*with* Kofman, Lev; Linde, Andrei D.; Van Proeyen, Antoine) Corrigendum: "Superconformal symmetry, supergravity and cosmology" [Classical Quantum Gravity **17** (2000), no. 20, 4269–4337; MR1791776 (2001h:83106)]. **2005d:83143** *and* **Blanco-Pillado, Jose J. et al., 2005h:83220**
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— *see also* **Blanco-Pillado, Jose J. et al., 2005h:83220** *and* **Kallosh, Renata et al.**
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— (*with* Wang, Peng[2]) Palatini formulation of the R^{-1}-modified gravity with an additional squared scalar curvature term. (English summary) **2005k:83116**
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Miller, John Charles *see* **Musco, Ilia et al., 2005j:83066**
Minamitsuji, Masato (*with* Sasaki, Misao) Linearized gravity on the de Sitter brane in the Einstein Gauss-Bonnet theory. (English summary) **2005k:83141**
— (*with* Sasaki, Misao; Langlois, David) Kaluza-Klein gravitons are negative energy dust in brane cosmology. (English summary) **2005m:83130**
Miranda, Oswaldo D. *see* **de Paula, Wayne L. S. et al., 2005g:83041**
Mohammedi, N. Dynamical evolution of the extra dimension in brane cosmology. (English summary) **2005f:83092**
Mohaupt, Thomas (*with* Saueressig, Frank) Dynamical conifold transitions and moduli trapping in M-theory cosmology. (English summary) **2005j:83124**
Montani, Giovanni *see* **Benini, Riccardo et al., 2005m:83117**

Mora, César *see* **Pimentel, Luis O., 2005i:83044**
Mosaffa, Amir E. *see* **Ghodsi, Ahmad, 2005j:83116**
Mostafazadeh, Ali Wave function of the universe and its meaning. (English summary) **2005d:83053**
Mourad, J. *see* **Dudas, Emilian et al., 2005j:83112**
Mulryne, David J. *see* **Bojowald, Martin et al., 2005h:83065**
Muñoz, Carlos *see* **Cerdeño, David G., 2005h:83250**
Musco, Ilia (*with* Miller, John Charles; Rezzolla, Luciano) Computations of primordial black-hole formation. (English summary) **2005j:83066**
Myers, Robert C. *see* **Hovdebo, Jordan L., 2005k:83137**; **Copeland, Edmund J. et al., 2005k:83153** *and* **2005m:83133**
Myung, Yun Soo *see* **Kim, Hungsoo et al.**
Navarro, Ignacio (*with* Santiago, José) Flux compactifications: stability and implications for cosmology. (English summary) **2005h:83243**
Neupane, Ishwaree P. (*with* Wiltshire, David L.) Accelerating cosmologies from compactification with a twist. (English summary) **2005m:83141**
Ng, Y. Jack *see* **Kephart, Thomas W., 2005j:83065**
Nicolis, Alberto (*with* Rattazzi, Riccardo) Classical and quantum consistency of the DGP model. (English summary)
Nielsen, Mikkel *see* **Bergshoeff, Eric et al., 2005b:83088**
Noda, Hujio *see* **Shao, D. et al., 2005g:83094**
Nojiri, Shin'ichi *see* **Cognola, Guido et al., 2005j:81117**
Obukhov, Yu. N. (*with* Vargas, T.) Gödel type solution in teleparallel gravity. (English summary) **2005d:83099**
Odintsov, Sergei D. *see* **Cognola, Guido et al., 2005j:81117**
Ohta, Nobuyoshi Accelerating cosmologies and inflation from M/superstring theories. (English summary) **2005k:83167**
— *see also* **Maeda, Kei-ichi, 2005k:83165**
Ó Murchadha, Niall *see* **Anderson, Edward et al., 2005a:83087**
O'Shea, E. M. *see* **Hogan, P. A.**
Padmanabhan, T. Gravity as elasticity of spacetime: a paradigm to understand horizon thermodynamics and cosmological constant. (English summary) **2005i:83076**
Page, Don N. Quantum cosmology. (*see* **2005j:83002**)
Palma, Gonzalo A. (*with* Davis, Anne Christine) Low energy branes, effective theory, and cosmology. (English summary) **2005h:83209**
Palti, Eran *see* **Lukas, André et al., 2005k:83185**
Panda, Sudhakar *see* **Choudhury, Debajyoti et al., 2005a:83091** *and* **Chingangbam, Pravabati et al., 2005k:83151**
de Paula, Wayne L. S. (*with* Miranda, Oswaldo D.; Marinho, Rubens M.) Polarization states of gravitational waves with a massive graviton. (English summary) **2005g:83041**
Pavlov, Yu. V. *see* **Grib, A. A.**
Peloso, Marco *see* **Contaldi, Carlo et al., 2005m:83122**
Perry, Malcolm J. *see* **Kostelecký, V. Alan et al., 2005c:83085** *and* **Turok, Neil et al., 2005k:81272**
Pervushin, V. N. (*with* Proskurin, Denis) Conformal general relativity. (English summary)
Pimentel, Luis O. (*with* Mora, César) Quantum and classical cosmology in extended scalar-tensor theories. (English and Russian summaries) **2005i:83044**
Pinardi, Gaïa *see* **de Buyl, Sophie et al., 2005a:83028**
Podolský, Jiří (*with* Griffiths, J. B.) A snapping cosmic string in a de Sitter or anti-de Sitter universe. (English summary) **2005m:83027**
Polchinski, Joseph *see* **Copeland, Edmund J. et al., 2005k:83153** *and* **2005m:83133**
Postma, Marieke *see* **Jeannerot, Rachel, 2005j:83134**
Prasad, Akhileshwar *see* **Singh, Jodh Pal et al.**
Proskurin, Denis *see* **Pervushin, V. N.**
Quevedo, Fernando *see* **Burgess, Clifford P. et al., 2005g:83116**; **2005h:83181**; **2005j:81207** *and* **Blanco-Pillado, Jose J. et al., 2005h:83220**
Rabadán, Raúl *see* **Burgess, Clifford P. et al., 2005h:83181**
Rajesh, Govindan *see* **Berkooz, Micha et al., 2005b:83111**
Rama, S. Kalyana *see* **Bagchi, Arjun, 2005k:83113**
Ramírez, Erandy (*with* Liddle, Andrew R.) Braneworld flow equations. (English summary) **2005i:83106**
Randall, Lisa Implications of additional spatial dimensions for questions in cosmology.
Randjbar-Daemi, Seif *see* **Brandenberger, Robert H., 2005i:83129**
Rattazzi, Riccardo *see* **Nicolis, Alberto**
Ratz, Michael[2] *see* **Buchmüller, Wilfried et al., 2005j:83108**
Rein, Gerhard On future geodesic completeness for the Einstein-Vlasov system with hyperbolic symmetry. (English summary) **2005e:83010**
Rezzolla, Luciano *see* **Musco, Ilia et al., 2005j:83066**
Riazuelo, Alain *see* **Schimd, Carlo et al., 2005m:83112**
Roberts, Mark D. Galactic metrics. (English summary) **2005g:83016**
Rodrigues Sobreira, A. A. *see* **Bezerra, Valdir B. et al., 2005a:83083**
Rodríguez-Martínez, María *see* **Malik, Karim A. et al., 2005d:83123**
Roest, Diederik *see* **Bergshoeff, Eric et al., 2005b:83088**
Rojas, Efraín *see* **Cordero, Rubén, 2005e:83078**
Romero, Juan M. (*with* Santiago, J. A.) Cosmological constant and noncommutativity: a Newtonian point of view. (English summary) **2005k:83101**
Russo, Jorge G. (*with* Townsend, Paul Kingsley) Cosmology as relativistic particle mechanics: from big crunch to big bang. (English summary) **2005k:83018**
Saa, Alberto *see* **Gunzig, E.**
Sadoyan, A. A. *see* **Sedrakyan, D. M. et al.**
Saffin, P. M. *see* **Lukas, André et al., 2005k:83185**
Saha, Bijan (*with* Boyadzhiev, Todor) Bianchi type-I cosmology with scalar and spinor fields. (English summary) **2005e:83020**
Sahoo, B. K. (*with* Singh, Lambodar Prasad) Gravitational waves in generalised Brans-Dicke theory. (English summary)
Samaroo, K. *see* **Shchigolev, V. K., 2005d:83007**
Sami, Mohammad *see* **Garousi, Mohammad R. et al., 2005j:83091**
Santiago, J. A. *see* **Romero, Juan M., 2005k:83101**
Santiago, José *see* **Navarro, Ignacio, 2005h:83243**
Santos, N. O. *see* **Herrera, L., 2005h:83146**
Sasaki, Misao *see* **Minamitsuji, Masato et al., 2005k:83141** *and* **2005m:83130**
Saueressig, Frank *see* **Mohaupt, Thomas, 2005j:83124**
Schimd, Carlo (*with* Uzan, Jean-Philippe; Riazuelo, Alain) Weak lensing in scalar-tensor theories of gravity. (English summary) **2005m:83112**
Schomblond, Christiane *see* **de Buyl, Sophie et al., 2005a:83028**
Sedrakyan, D. M. (*with* Benacquista, M. J.; Hairapetyan, M. V.; Shahabasyan, K. M.; Sadoyan, A. A.) Gravitational radiation from differentially rotating white dwarfs. (English summary)
Seto, Osamu *see* **Higaki, Tetsutaro et al., 2005e:83094**
Shahabasyan, K. M. *see* **Sedrakyan, D. M. et al.**
Shao, Chang Gui *see* **Shao, D. et al., 2005g:83094**
Shao, D. (*with* Shao, Liang[2]; Noda, Hujio; Shao, Chang Gui) Some Wilson loops in gravitational metric fields. (English summary) **2005g:83094**
Shao, Liang[2] *see* **Shao, D. et al., 2005g:83094**
Shchigolev, V. K. (*with* Samaroo, K.) Generalized exact cosmologies with interacting Yang-Mills and nonlinear scalar fields. (English summary) **2005d:83007**
Shestakova, T. P. Quantum-geometrodynamical description of the universe in different reference frames. (English and Russian summaries) **2005i:83045**
Shiromizu, Tetsuya *see* **Uesugi, Tomoko et al.**
Shlaer, Benjamin *see* **Buchan, S. E. Shandera et al., 2005h:83222**
Silverstein, Eva (*with* Tong, David) Scalar speed limits and cosmology: acceleration from D-cceleration. (English summary) **2005k:81264**
Singh, Jodh Pal (*with* Prasad, Akhileshwar; Tiwari, Rishi Kumar) Bianchi type-I perfect fluid cosmological models with constant active gravitational mass. (English summary)
Singh, Lambodar Prasad *see* **Sahoo, B. K.**
Singh, Parampreet *see* **Tsujikawa, Shinji et al., 2005g:83052** *and* **Bojowald, Martin et al., 2005h:83065**
Smolin, Lee *see* **Alexander, Stephon et al., 2005i:83034**
Sormani, Christina Friedmann cosmology and almost isotropy. (English summary) **2005g:53070**
Soussa, M. E. (*with* Woodard, Richard) The force of gravity from a Lagrangian containing inverse powers of the Ricci scalar. (English summary) **2005b:83085**
Steinhardt, Paul J. *see* **Turok, Neil et al., 2005k:81272**
Stoica, Horace *see* **Burgess, Clifford P. et al., 2005g:83116** *and* **Buchan, S. E. Shandera et al., 2005h:83222**
Sundrum, Raman Fat Euclidean gravity with small cosmological constant. (English summary) **2005b:83047**
Takahashi, Keitaro *see* **Uesugi, Tomoko et al.**
Tasinato, Gianmassimo *see* **Burgess, Clifford P. et al., 2005h:83181** *and* **Lee, Hyun Min, 2005h:83201**
Tavakol, Reza *see* **Bojowald, Martin et al., 2005h:83065**
Tetradis, Nikolaos *see* **Apostolopoulos, Pantelis S., 2005g:83099**
The, Dennis *see* **Horwood, Joshua T. et al., 2005c:83018**
Timirgaziu, C. *see* **Dudas, Emilian et al., 2005j:83112**
Timirgaziu, Maria-Cristina *see* **Dudas, Emilian, 2005a:83116**
Tiwari, Rishi Kumar *see* **Singh, Jodh Pal et al.**
Tong, David *see* **Silverstein, Eva, 2005k:81264**
Torii, Takashi[1] *see* **Uesugi, Tomoko et al.**
Townsend, Paul Kingsley *see* **Russo, Jorge G., 2005k:83018**
Trigiante, Mario *see* **D'Auria, Riccardo et al., 2005k:83177**
Tsujikawa, Shinji (*with* Singh, Parampreet; Maartens, Roy) Loop quantum gravity effects on inflation and the CMB. (English summary) **2005g:83052**
— *see also* **Garousi, Mohammad R. et al., 2005j:83091**
Turok, Neil (*with* Perry, Malcolm J.; Steinhardt, Paul J.) M theory model of a big crunch/big bang transition. (English summary) **2005k:81272**
Tye, S.-H. Henry *see* **Leblond, Louis, 2005a:81179** *and* **Buchan, S. E. Shandera et al., 2005h:83222**
Uesugi, Tomoko (*with* Shiromizu, Tetsuya; Torii, Takashi[1]; Takahashi, Keitaro) D-braneworld cosmology. II. Higher order corrections. (English summary)
Urrestilla, Jon *see* **Achúcarro, Ana, 2005h:81344**
Uzan, Jean-Philippe *see* **Schimd, Carlo et al., 2005m:83112**
Van Proeyen, Antoine *see* **Binétruy, Pierre et al., 2005d:83143** *and* **Kallosh, Renata et al.**
Vargas, T. The energy of the universe in teleparallel gravity. (English summary) **2005b:83086**
— *see also* **Obukhov, Yu. N., 2005d:83099**
Vargas Moniz, P. $N = 2$ supersymmetric FRW quantum cosmology from a D-p-brane gas. (English summary) **2005h:83078**
Vázquez-Lorenzo, Ramón *see* **Brozos-Vázquez, Miguel et al., 2005i:83101**
Vilenkin, Alexander Quantum cosmology and eternal inflation. (*see* **2005j:83002**)
Vinet, Jérémie Generalised cosmology of codimension-two braneworlds. (English summary) **2005i:83110**
Vollick, Dan N. On the viability of the Palatini form of $1/R$ gravity. Comment on: "Palatini form of $1/R$ gravity" [Phys. Rev. Lett. **92** (2004), no. 7, 071101, 4 pp.; MR2069630 (2005e:83072a)] by É. É. Flanagan. (English summary) **2005e:83072b**
— On the Dirac field in the Palatini form of $1/R$ gravity. (English summary) **2005k:83118**
— *see also* **Flanagan, Éanna É., 2005e:83072c**
Wainwright, John *see* **Horwood, Joshua T. et al., 2005c:83018**
Wands, David *see* **Easther, Richard et al., 2005h:83190** *and* **Koyama, Kazuya et al., 2005h:83199**
Wang, Bin[2] *see* **Casali, Adenauer G. et al., 2005h:83183**
Wang, Peng[2] (*with* Meng, Xin-He) Codimension two branes in Einstein-Gauss-Bonnet gravity. (English summary) **2005i:83111**
— *see also* **Meng, Xin-He, 2005a:83105** *and* **2005k:83116**
Wang, Xing-Xiang Bianchi type III string cosmological model with bulk viscosity. (English summary)
Watts, David G. Derivation of an infinite class of five-dimensional conformally flat t-, r- and x^5-dependent cosmological metrics. (English summary) **2005g:83114**
Wiltshire, David L. *see* **Neupane, Ishwaree P., 2005m:83141**
Woodard, Richard *see* **Soussa, M. E., 2005b:83085**
Xu, Zhan *see* **Guo, Han-Ying et al., 2005b:83022**

Yang, Yi Song Prescribing zeros and poles on a compact Riemann surface for a gravitationally coupled abelian gauge field theory. (English summary) **2005g:83024**
Zavala C., Ivonne *see* **Burgess, Clifford P. et al., 2005h:83181**
Zerbini, Sergio *see* **Cognola, Guido et al., 2005j:81117**
Zhang, Hongsheng *see* **Cai, Rong-Gen, 2005h:83182**
Zhou, Bin[4] *see* **Guo, Han-Ying et al., 2005b:83022**
Zoupanos, George *see* **Maceda, M. et al., 2005c:83048**

85–XX Astronomy and astrophysics {For celestial mechanics, see 70F15.}

85–01 Instructional exposition (textbooks, tutorial papers, etc.)

Items with secondary classifications in 85-01

Straumann, Norbert ★ General relativity. **2005m:83002**

85–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 85–03

(Buffoni, Letizia) *see* **Correspondence: Nobile, Arminio–Schiaparelli, Giovanni Virginio, 1868/1894**

(Ertel, Hans) *see* **Schröder, Wilfried, 2005k:86001**

(Idlis, G. M.) *see* **Research in the history of astronomy. No. XXVIII, 2005e:01001** *and* **Research in the history of astronomy. No. XXIX, 2005k:01002**

(Nobile, Arminio) *see* **Correspondence: Nobile, Arminio–Schiaparelli, Giovanni Virginio, 1868/1894**

Norberg, Arthur L. Table making in astronomy. (*see* **2005b:01002**)

(Proverbio, Edoardo) *see* **Correspondence: Nobile, Arminio–Schiaparelli, Giovanni Virginio, 1868/1894**

(Schiaparelli, Giovanni Virginio) *see* **Correspondence: Nobile, Arminio–Schiaparelli, Giovanni Virginio, 1868/1894**

Schröder, Wilfried Hans Ertel—a pioneer in meteorological sciences: a brief historical review on the 100th anniversary of his birthday. (Russian. Russian summary) **2005k:86001**

Wilkins, George A. The making of astronomical tables in HM nautical almanac office. (*see* **2005b:01002**)

Items listed otherwise than by author

Anniversary:

Birth of Ertel, Hans *see* **Schröder, Wilfried, 2005k:86001**

Correspondence:

Nobile, Arminio–Schiaparelli, Giovanni Virginio, 1868/1894 ★ Arminio Nobile–Giovanni Virginio Schiaparelli: corrispondenza (1868–1894). (Italian) [The correspondence of Arminio Nobile and Giovanni Virginio Schiaparelli (1868–1894)]

Research in the history of astronomy. No. XXIX ★ Историко-астрономические исследования. Вып. XXIX. (Russian) [Research in the history of astronomy. No. XXIX] **2005k:01002**

Research in the history of astronomy. No. XXVIII ★ Историко-астрономические исследования. Вып. XXVIII. (Russian) [Research in the history of astronomy. No. XXVIII] **2005e:01001**

85–06 Proceedings, conferences, collections, etc.

Items with secondary classifications in 85–06

(Ferriz-Mas, Antonio) *see* **Advances in nonlinear dynamos, 2005b:76004**

Morbidelli, Alessandro (*with* Nicholson, Phil) Preface [Papers from the XXXVth Annual Meeting of the Division of Dynamic Astronomy of the American Astronomical Society].

Nicholson, Phil *see* **Morbidelli, Alessandro**

(Núñez Jiménez, Manuel) *see* **Advances in nonlinear dynamos, 2005b:76004**

Items listed otherwise than by author

Advances in nonlinear dynamos ★ Advances in nonlinear dynamos. **2005b:76004**

85–08 Computational methods

Brandenburg, Axel Computational aspects of astrophysical MHD and turbulence. **2005c:85001**

Mickens, Ronald E. A non-standard finite difference scheme for the equations modelling stellar structure. **2005c:85002**

Items with secondary classifications in 85–08

Asllanaj, Fatmir (*with* Jeandel, Gerard; Roche, Jean Rodolphe) Convergence of a numerical scheme for a nonlinear coupled system of radiative-conductive heat transfer equations. (English summary) **2005g:65158**

Belleni-Morante, A. (*with* Monaco, Roberto; Riganti, R.; Salvarani, F.) A numerical approach for inverse problems in photon transport inside an interstellar cloud. (English summary) **2005c:85003**

Coelho, P. J. A modified version of the discrete ordinates method for radiative heat transfer modelling. (English summary) **2005f:85001**

Jeandel, Gerard *see* **Asllanaj, Fatmir et al., 2005g:65158**

Kaladze, T. (*with* Rogava, Dzh. L.; Tsamalashvili, L.; Tsiklauri, Mikheil) Implicit difference schemes for the Charney-Obukhov equation. (English and Georgian summaries) **2005b:86030**

Monaco, Roberto *see* **Belleni-Morante, A. et al., 2005c:85003**

Pimenta de Abreu, Marcos Mixed singular-regular boundary conditions in multislab radiation transport. (English summary) **2005c:85009**

Podgorny, A. I. (*with* Podgornyĭ, I. M.) MHD modeling of phenomena in the solar corona using an absolutely implicit scheme. (Russian. Russian summary) **2005k:85005**

Podgornyĭ, I. M. *see* **Podgorny, A. I., 2005k:85005**

Riganti, R. *see* **Belleni-Morante, A. et al., 2005c:85003**

Roche, Jean Rodolphe *see* **Asllanaj, Fatmir et al., 2005g:65158**

Rogava, Dzh. L. *see* **Kaladze, T. et al., 2005b:86030**

Salvarani, F. *see* **Belleni-Morante, A. et al., 2005c:85003**

Tsamalashvili, L. *see* **Kaladze, T. et al., 2005b:86030**

Tsiklauri, Mikheil *see* **Kaladze, T. et al., 2005b:86030**

85A04 General

Brumberg, V. A. *see* **Krasinskiĭ, G. A., 2005h:85001**

Krasinskiĭ, G. A. (*with* Brumberg, V. A.) Secular increase of astronomical unit from analysis of the major planet motions, and its interpretation. (English summary) **2005h:85001**

Lipcanu, Minodora The astronomical refraction and the Fermat's principle. (English summary) **2005d:85001**

Items with secondary classifications in 85A04

Chavanis, Pierre-Henri Statistical mechanics of geophysical turbulence: application to Jovian flows and Jupiter's great red spot. (English summary) **2005h:76049**

Gabern, Frederic (*with* Jorba, Àngel; Locatelli, Ugo) On the construction of the Kolmogorov normal form for the Trojan asteroids. (English summary) **2005m:70057**

Großkinsky, Stefan (*with* Klingenberg, Christian; Oelschläger, Karl) A rigorous derivation of Smoluchowski's equation in the moderate limit. (English summary) **2005a:82078**

Jorba, Àngel *see* **Gabern, Frederic et al., 2005m:70057**

Kamarujjama, M. (*with* Khursheed Alam, M.; Singh, Dinesh[3]) New results concerning the analysis of Voigt functions. (English summary) **2005h:33049**

Khursheed Alam, M. *see* **Kamarujjama, M. et al., 2005h:33049**

Klingenberg, Christian *see* **Großkinsky, Stefan et al., 2005a:82078**

Locatelli, Ugo *see* **Gabern, Frederic et al., 2005m:70057**

Oelschläger, Karl *see* **Großkinsky, Stefan et al., 2005a:82078**

Singh, Dinesh[3] *see* **Kamarujjama, M. et al., 2005h:33049**

85A05 Galactic and stellar dynamics

Barkov, M. V. (*with* Bisnovatyi-Kogan, G. S.; Neishtadt, A. I.; Belinskiĭ, V. A.) On chaotic behavior of gravitating stellar shells. (English summary) **2005m:85001**

Belinskiĭ, V. A. *see* **Barkov, M. V. et al., 2005m:85001**

Bisnovatyi-Kogan, G. S. *see* **Barkov, M. V. et al., 2005m:85001**

Caranicolas, N. D. (*with* Papadopoulos, N. J.) The role of physical quantities in determining the chaotic nature of orbits in barred galaxies. (English summary) **2005j:85001**

Carpintero, D. D. *see* **Muzzio, J. C. et al.**

Cervantes-Cota, Jorge L. *see* **Rodríguez-Meza, M. A. et al., 2005m:85002**

Chandrasekhar, S. (*with* Ferrari, V.) Errata: "On the non-radial oscillations of a star. V. A fully relativistic treatment of a Newtonian star" [Proc. Roy. Soc. London Ser. A **450** (1995), no. 1939, 463–476; MR1349514 (96f:85002)]. **De la Calleja, E. M.** *see* **Rodríguez-Meza, M. A. et al., 2005m:85002**

Ferrari, V. *see* **Chandrasekhar, S.**

Haehnelt, Martin G. The connection between the formation of galaxies and that of their central supermassive black holes. (English summary) **2005j:85002**

Heggie, Douglas (*with* Hut, Piet) ★ The gravitational million-body problem. **2005j:85003**

Hut, Piet *see* **Heggie, Douglas, 2005j:85003**

Kalla, Shyam L. *see* **Montanus, J. M. C., 2005g:85001**

Kokubun, Fernando *see* **Piccoli, Humberto, 2005e:85001**

Montanus, J. M. C. (*with* Kalla, Shyam L.) A series approximation for disk galaxies by means of the Epstein-Hubbell integral. (English summary) **2005g:85001**

Muzzio, J. C. (*with* Carpintero, D. D.; Wachlin, F. C.) Spatial structure of regular and chaotic orbits in a self-consistent triaxial stellar system. (English summary)

Neishtadt, A. I. *see* **Barkov, M. V. et al., 2005m:85001**

Papadopoulos, N. J. *see* **Caranicolas, N. D., 2005j:85001**

Peacock, J. A. Black holes, cooling flows and galaxy formation. (English summary) **2005k:85001**

Pedraza, M. I. *see* **Rodríguez-Meza, M. A. et al., 2005m:85002**

Piccoli, Humberto (*with* Kokubun, Fernando) Measuring chaos in gravitational waves. (English summary) **2005e:85001**

Rodríguez-Meza, M. A. (*with* Cervantes-Cota, Jorge L.; Pedraza, M. I.; Tlapanco-Limón, J. F.; De la Calleja, E. M.) Potential-density pairs for axisymmetric galaxies: the influence of scalar fields. (English summary) **2005m:85002**

Tlapanco-Limón, J. F. *see* **Rodríguez-Meza, M. A. et al., 2005m:85002**

Wachlin, F. C. *see* **Muzzio, J. C. et al.**

Items with secondary classifications in 85A05

Andrade, Manuel (*with* Docobo, J. A.) Stability in triple star systems with mass loss. (Spanish. Spanish summary) **2005h:70011**

Berkovich, Lev M. (*with* Starinova, O. L.) The Gylden-Meshcherskiĭ problem: trajectories of motion. (Russian. English and Russian summaries) **2005j:70022**

Callebaut, D. K. (*with* Karugila, G. K.; Khater, A. H.) Nonlinear Fourier analysis of systems of partial differential equations with computer algebra: survey and new results. (English summary) (*see* **2005m:00007**)

Chen, Gui Qiang (*with* Li, Yachun) Stability of Riemann solutions with large oscillation for the relativistic Euler equations. (English summary) **2005e:35155**

Cucu-Dumitrescu, C. *see* **Şelaru, D. et al., 2005k:70028**

Docobo, J. A. *see* **Andrade, Manuel, 2005h:70011**

Feng, Dongmei *see* **Li, Yachun et al., 2005k:35267**

Font, Andreea *see* **Stoica, Cristina, 2005a:70015**

Georgakarakos, Nikolaos Eccentricity generation in hierarchical triple systems with non-coplanar and initially circular orbits. (English summary) **2005a:70012**

Ghenescu, M. *see* **Şelaru, D. et al., 2005k:70028**

Karugila, G. K. *see* **Callebaut, D. K. et al., (2005m:00007)**

Khater, A. H. *see* **Callebaut, D. K. et al., (2005m:00007)**

Li, Yachun (*with* Feng, Dongmei; Wang, Zejun) Global entropy solutions to the relativistic Euler equations for a class of large initial data. (English summary) **2005k:35267**

— *see also* **Chen, Gui Qiang, 2005e:35155**

Mioc, V. *see* **Şelaru, D. et al., 2005k:70028**

Pavlov, M. V. The Gurevich-Zybin system. (English summary) **2005m:35241**

Şelaru, D. (*with* Mioc, V.; Cucu-Dumitrescu, C.; Ghenescu, M.) Chaos in Hill's generalized problem: from the solar system to black holes. (English summary) **2005k:70028**

Sideris, Ioannis V. The validity of the continuum limit in the gravitational N-body problem. (English summary) **2005h:70010**
Starinova, O. L. *see* **Berkovich, Lev M., 2005j:70022**
Stoica, Cristina (*with* Font, Andreea) Global dynamics in the singular logarithmic potential. (English summary) **2005a:70015**
Wang, Zejun *see* **Li, Yachun et al., 2005k:35267**

85A15 Galactic and stellar structure

Alcaniz, J. S. *see* **Silva, Raimundo, 2005k:85004**
Astefanesei, Dumitru (*with* Radu, Eugen[2]) Rotating boson stars in 2 + 1 dimensions. (English summary) **2005d:85002**
Begelman, Mitchell C. (*with* Ruszkowski, Mateusz) Mechanical heating by active galaxies. (English summary) **2005k:85002**
Belleni-Morante, A. (*with* Monaco, Roberto; Riganti, R.; Salvarani, F.) A numerical approach for inverse problems in photon transport inside an interstellar cloud. (English summary) **2005c:85003**
Binney, James Black holes, cuspy atmospheres and galaxy formation. (English summary) **2005j:85004**
Chandrasekhar, S. (*with* Ferrari, V.) Errata: "On the nonradial oscillations of a star" [Proc. Roy. Soc. London Ser. A **432** (1991), no. 1885, 247–279; MR1116957 (92d:85003)]. **Ciotti, Luca** *see* **Ostriker, Jeremiah P., 2005k:85003**
Ferrari, V. *see* **Chandrasekhar, S.**
Luo, Tao[2] (*with* Smoller, Joel) Rotating fluids with self-gravitation in bounded domains. (English summary) **2005g:85002**
Monaco, Roberto *see* **Belleni-Morante, A. et al., 2005c:85003**
Ostriker, Jeremiah P. (*with* Ciotti, Luca) Active galaxies and radiative heating. (English summary) **2005k:85003**
Radu, Eugen[2] *see* **Astefanesei, Dumitru, 2005d:85002**
Riganti, R. *see* **Belleni-Morante, A. et al., 2005c:85003**
Ruszkowski, Mateusz *see* **Begelman, Mitchell C., 2005k:85002**
Sakagami, Masa-aki (*with* Taruya, Atsushi) Self-gravitating stellar systems and non-extensive thermostatistics. (English summary) **2005c:85004**
— (*with* Taruya, Atsushi) Description of quasi-equilibrium states of self-gravitating systems based on non-extensive thermostatistics. (English summary)
— *see also* **Taruya, Atsushi**
Salvarani, F. *see* **Belleni-Morante, A. et al., 2005c:85003**
Silva, Raimundo (*with* Alcaniz, J. S.) Non-extensive statistics and the stellar polytrope index. (English summary) **2005k:85004**
Smoller, Joel *see* **Luo, Tao[2], 2005g:85002**
Taruya, Atsushi (*with* Sakagami, Masa-aki) Fokker-Planck study of stellar self-gravitating system away from the thermal equilibrium: connection with non-extensive statistics. (English summary)
— *see also* **Sakagami, Masa-aki, 2005c:85004**
Tatomir, E. The homogenous model for initial upper main sequence stars. (English and Romanian summaries)

Items with secondary classifications in 85A15

Beyer, K. (*with* Günther, Matthias) Dynamical stability of compressible drops and stars. (English summary) **2005k:76115**
Biler, Piotr (*with* Cannone, Marco; Guerra, Ignacio A.; Karch, Grzegorz) Global regular and singular solutions for a model of gravitating particles. (English summary) **2005h:35160**
Brooks, Eugene D., III *see* **Daffin, Frank et al., 2005j:85006**
Busse, Friedrich H. On thermal convection in slowly rotating systems. (English summary) **2005e:76041**
Cannone, Marco *see* **Biler, Piotr et al., 2005h:35160**
Daffin, Frank (*with* McKinley, Michael Scott; Brooks, Eugene D., III; Szöke, Abraham) An evaluation of the difference formulation for photon transport in a two level system. (English summary) **2005j:85006**
Deng, Yinbin (*with* Xiang, Jianlin; Yang, Tong) Blowup phenomena of solutions to Euler-Poisson equations. (English summary) **2005c:35239**
Ducomet, Bernard (*with* Feireisl, Eduard) On the dynamics of gaseous stars. **2005m:35223**
— (*with* Feireisl, Eduard; Petzeltová, Hana; Straškraba, Ivan) Global in time weak solutions for compressible barotropic self-gravitating fluids. (English summary) **2005e:35183**
Earnshaw, Paul *see* **Zhang, Keke et al.**
Feireisl, Eduard *see* **Ducomet, Bernard et al., 2005e:35183** *and* **2005m:35223**
Guerra, Ignacio A. *see* **Biler, Piotr et al., 2005h:35160**
Günther, Matthias *see* **Beyer, K., 2005k:76115**
Karch, Grzegorz *see* **Biler, Piotr et al., 2005h:35160**
Kholshevnikov, Konstantin V. (*with* Kurdubov, Sergei L.) Convergence of Liapunov series for Huygens-Roche figures. (English summary) **2005a:70013**
Klačka, Jozef Electromagnetic radiation and motion of a particle. (English summary) **2005a:70014**
Kurdubov, Sergei L. *see* **Kholshevnikov, Konstantin V., 2005a:70013**
Liao, Xinhao *see* **Zhang, Keke et al.**
McKinley, Michael Scott *see* **Daffin, Frank et al., 2005j:85006**
Mickens, Ronald E. A non-standard finite difference scheme for the equations modelling stellar structure. **2005c:85002**
Petzeltová, Hana *see* **Ducomet, Bernard et al., 2005e:35183**
Radwan, Ahmed E. Hydromagnetic stability of gravitational streaming coaxial cylinders with double perturbed interfaces. (English summary) **2005h:76040**
Rein, Gerhard Non-linear stability of gaseous stars. (English summary) **2005d:35214**
Straškraba, Ivan *see* **Ducomet, Bernard et al., 2005e:35183**
Szöke, Abraham *see* **Daffin, Frank et al., 2005j:85006**
Xiang, Jianlin *see* **Deng, Yinbin et al., 2005c:35239**
Yang, Tong *see* **Deng, Yinbin et al., 2005c:35239**
Zhang, Keke (*with* Liao, Xinhao; Earnshaw, Paul) The Poincaré equation: a new polynomial and its unusual properties. (English summary)

85A20 Planetary atmospheres

Conrath, Barney J. *see* **Gierasch, Peter J. et al., 2005b:85001**
Gierasch, Peter J. (*with* Conrath, Barney J.; Read, Peter L.) Nonconservation of Ertel potential vorticity in hydrogen atmospheres. (English summary) **2005b:85001**
Papaloizou, J. C. B. Disk planet interactions and early evolution in Young planetary systems. (English summary) **2005j:85005**
Read, Peter L. *see* **Gierasch, Peter J. et al., 2005b:85001**
Smith, K. Shafer A local model for planetary atmospheres forced by small-scale convection. (English summary) **2005b:85002**

Items with secondary classifications in 85A20

Berner, Judith *see* **Branstator, Grant, 2005m:86013**
Branstator, Grant (*with* Berner, Judith) Linear and nonlinear signatures in the planetary wave dynamics of an AGCM: phase space tendencies. (English summary) **2005m:86013**
Busse, Friedrich H. On thermal convection in slowly rotating systems. (English summary) **2005e:76041**
Rohrmann, René D. A new statistical mechanical formalism for gases. (English summary) **2005m:82006**

85A25 Radiative transfer

Aboughantous, Charles H. Analytical solutions of the radiative transfer equation in one-dimensional spherical geometry with central symmetry. (English summary) **2005b:85003**
Belleni-Morante, A. (*with* Monaco, Roberto; Riganti, R.; Salvarani, F.) Inverse problems in photon transport. I. Determination of physical and geometrical features of an interstellar cloud. (English summary) **2005g:85003**
— (*with* Riganti, R.) Inverse problems in photon transport. II. Features of a source inside an interstellar cloud. (English summary) **2005g:85004**
— (*with* Mugelli, Francesco) Identification of the boundary surface of an interstellar cloud from a measurement of the photon far-field. (English summary) **2005c:85005**
Brooks, Eugene D., III *see* **Daffin, Frank et al., 2005j:85006**
de Campos Velho, Haroldo Fraga *see* **Chalhoub, E. S. et al., 2005c:85006**
Cen, Kefa *see* **Wang, Fei et al.**
Chalhoub, E. S. (*with* de Campos Velho, Haroldo Fraga; Garcia, R. D. M.; Vilhena, Marco Tulio M. B.) A comparison of radiances generated by selected methods of solving the radiative-transfer equation. (English summary) **2005c:85006**
Coelho, P. J. A modified version of the discrete ordinates method for radiative heat transfer modelling. (English summary) **2005f:85001**
Daffin, Frank (*with* McKinley, Michael Scott; Brooks, Eugene D., III; Szöke, Abraham) An evaluation of the difference formulation for photon transport in a two level system. (English summary) **2005j:85006**
Feldheim, Véronique (*with* Lybaert, Paul) Solution of radiative heat transfer problems with the discrete transfer method applied to triangular meshes. (English summary) **2005c:85007**
Garcia, R. D. M. *see* **Chalhoub, E. S. et al., 2005c:85006**
Garo, A. *see* **Wang, Fei et al.**
Girasole, T. *see* **Wang, Fei et al.**
Gréhan, G. *see* **Wang, Fei et al.**
Islam, Md. Zahirul (*with* Mukherjee, Anupam; Karanjai, S.) Exact and unique solution of a transport equation in a semi-infinite medium by Laplace transform and Wiener-Hopf technique. (English summary) **2005g:85005**
Kang, Kab Seok P_1 nonconforming finite element multigrid method for radiation transport. (English summary) **2005e:85002**
Karanjai, S. *see* **Islam, Md. Zahirul et al., 2005g:85005**
Klar, Axel (*with* Thömmes, Guido) Numerical methods for radiative heat transfer in diffusive regimes and applications to glass manufacturing. (English summary) **2005b:85004**
— *see also* **Larsen, Edward W. et al., 2005c:85008**
Larsen, Edward W. (*with* Thömmes, Guido; Klar, Axel) New frequency-averaged approximations to the equations of radiative heat transfer. (English summary) **2005c:85008**
Lybaert, Paul *see* **Feldheim, Véronique, 2005c:85007**
McKinley, Michael Scott *see* **Daffin, Frank et al., 2005j:85006**
Monaco, Roberto *see* **Belleni-Morante, A. et al., 2005g:85003**
Mugelli, Francesco *see* **Belleni-Morante, A., 2005c:85005**
Mukherjee, Anupam *see* **Islam, Md. Zahirul et al., 2005g:85005**
Nazarov, V. G. Approximation of the absorption coefficient for the radiative transfer equation on a given energy interval. (Russian. Russian summary) **2005m:85003**
Pimenta de Abreu, Marcos Mixed singular-regular boundary conditions in multislab radiation transport. (English summary) **2005c:85009**
Riganti, R. *see* **Belleni-Morante, A. et al., 2005g:85003** *and* **2005g:85004**
Salvarani, F. *see* **Belleni-Morante, A. et al., 2005g:85003**
Sushkevich, T. A. Mathematical modeling of the multidimensional radiation transfer problems with parallel computing. (English summary) (*see* **2005b:76005**)
Szöke, Abraham *see* **Daffin, Frank et al., 2005j:85006**
Thömmes, Guido *see* **Klar, Axel, 2005b:85004** *and* **Larsen, Edward W. et al., 2005c:85008**
Vilhena, Marco Tulio M. B. *see* **Chalhoub, E. S. et al., 2005c:85006**
Wang, Fei (*with* Cen, Kefa; Girasole, T.; Garo, A.; Gréhan, G.; Yan, Jianhua) Two-flux method for radiation heat transfer in anisotropic gas-particles media. (English summary)
Yan, Jianhua *see* **Wang, Fei et al.**

Items with secondary classifications in 85A25

Asllanaj, Fatmir (*with* Jeandel, Gerard; Roche, Jean Rodolphe) Convergence of a numerical scheme for a nonlinear coupled system of radiative-conductive heat transfer equations. (English summary) **2005g:65158**
Begelman, Mitchell C. (*with* Ruszkowski, Mateusz) Mechanical heating by active galaxies. (English summary) **2005k:85002**
Cai, Xiao-Chuan *see* **Ovtchinnikov, Serguei, 2005g:65138**
Chandran, Pallath (*with* Sacheti, Nirmal C.) Unsteady boundary layer flow of a radiating fluid under the influence of an applied magnetic field. (English summary) **2005h:76076**

Chevallier, L. *see* **Rutily, B., 2005m:45005**
Ciotti, Luca *see* **Ostriker, Jeremiah P., 2005k:85003**
Clouët, J.-F. (*with* Samba, G.) Asymptotic diffusion limit of the symbolic Monte-Carlo method for the transport equation. (English summary) **2005f:82119**
Gosse, Laurent (*with* Toscani, Giuseppe) Asymptotic-preserving & well-balanced schemes for radiative transfer and the Rosseland approximation. (English summary) **2005f:65103**
Ignatieva, E. I. *see* **Sushkevich, T. A. et al., (2005i:65006)**
Jeandel, Gerard *see* **Asllanaj, Fatmir et al., 2005g:65158**
Kulikov, A. K. *see* **Sushkevich, T. A. et al., (2005i:65006)**
López-Pouso, Óscar *see* **Porzio, Maria Michaela, 2005i:45014**
Lotova, G. Z. (*with* Mikhailov, Gennadii A.) New Monte Carlo methods for estimating time dependences in radiation transfer processes. (Russian. Russian summary) **2005g:65016**
Maksakova, S. V. *see* **Sushkevich, T. A. et al., (2005i:65006)**
Mikhailov, Gennadii A. *see* **Lotova, G. Z., 2005g:65016**
Ostriker, Jeremiah P. (*with* Ciotti, Luca) Active galaxies and radiative heating. (English summary) **2005k:85003**
Ovtchinnikov, Serguei (*with* Cai, Xiao-Chuan) One-level Newton-Krylov-Schwarz algorithm for unsteady non-linear radiation diffusion problem. (English summary) **2005g:65138**
Porzio, Maria Michaela (*with* López-Pouso, Óscar) Application of accretive operators theory to evolutive combined conduction, convection and radiation. (English summary) **2005i:45014**
Prokhorov, I. V. (*with* Yarovenko, I. P.) A boundary value problem of transport theory in a multilayer medium with generalized conjugation conditions. (Russian. Russian summary) **2005b:82078**
Roche, Jean Rodolphe *see* **Asllanaj, Fatmir et al., 2005g:65158**
Rossani, A. (*with* Scarfone, A. M.) Generalized kinetic equations for a system of interacting atoms and photons: theory and simulations. (English summary) **2005g:82118**
Ruszkowski, Mateusz *see* **Begelman, Mitchell C., 2005k:85002**
Rutily, B. (*with* Chevallier, L.) The finite Laplace transform for solving a weakly singular integral equation occurring in transfer theory. (English summary) **2005m:45005**
Sacheti, Nirmal C. *see* **Chandran, Pallath, 2005h:76076**
Samba, G. *see* **Clouët, J.-F., 2005f:82119**
Scarfone, A. M. *see* **Rossani, A., 2005g:82118**
Shkarupa, E. V. Conditional optimization of the frequencies polygon method with a free-path estimator for global solution of the radiative transfer equation. (English summary) (*see* **2005i:65006**)
Strelkov, S. A. *see* **Sushkevich, T. A. et al., (2005i:65006)**
Sushkevich, T. A. (*with* Vladimirova, E. V.; Ignatieva, E. I.; Kulikov, A. K.; Maksakova, S. V.; Strelkov, S. A.) Influence functions method for numerical solution to boundary-value problems of transfer theory. (English summary) (*see* **2005i:65006**)
Toscani, Giuseppe *see* **Gosse, Laurent, 2005f:65103**
Vladimirova, E. V. *see* **Sushkevich, T. A. et al., (2005i:65006)**
Yarovenko, I. P. *see* **Prokhorov, I. V., 2005b:82078**

85A30 Hydrodynamic and hydromagnetic problems [see also 76Y05]

Arlt, Rainer *see* **Rüdiger, Günther, 2005g:85006**
Beveridge, C. (*with* Priest, E. R.; Brown, D. S.) Magnetic topologies in the solar corona due to four discrete photospheric flux regions. (English summary) **2005f:85002**
Brown, D. S. *see* **Beveridge, C. et al., 2005f:85002**
Cox, Stephen M. (*with* Matthews, Paul C.; Pollicott, S. L.) Swift-Hohenberg model for magnetoconvection. (English summary) **2005e:85003**
Ferriz-Mas, Antonio *see* **Schüssler, Manfred, 2005k:85006**
Filippychev, D. S. Hybrid simulation of space plasmas: models with massless fluid representation of electrons. VI. Magnetotail current sheets. (English summary) **2005b:85005**
Gerbeth, Gunter *see* **Xu, Mingtian et al., 2005k:85008**
Iñarrea, Manuel (*with* Lanchares, Víctor; Palacián, Jesús F.; Pascual, Ana I.; Salas, J. Pablo; Yanguas, Patricia) The Keplerian regime of charged particles in planetary magnetospheres. (English summary) **2005h:85002**
Kleeorin, Nathan *see* **Rogachevskii, Igor, 2005j:85007**
Lanchares, Víctor *see* **Iñarrea, Manuel et al., 2005h:85002**
Matthews, Paul C. *see* **Cox, Stephen M. et al., 2005e:85003**
Mofiz, U. A. On the trapping of Alfvén waves in the polar region of a compact gravitating object. (English summary) **2005b:85006**
Palacián, Jesús F. *see* **Iñarrea, Manuel et al., 2005h:85002**
Pascual, Ana I. *see* **Iñarrea, Manuel et al., 2005h:85002**
Podgorny, A. I. (*with* Podgornyĭ, I. M.) MHD modeling of phenomena in the solar corona using an absolutely implicit scheme. (Russian. Russian summary) **2005k:85005**
Podgornyĭ, I. M. *see* **Podgorny, A. I., 2005k:85005**
Pollicott, S. L. *see* **Cox, Stephen M. et al., 2005e:85003**
Priest, E. R. *see* **Beveridge, C. et al., 2005f:85002**
Rogachevskii, Igor (*with* Kleeorin, Nathan) Nonlinear theory of a "shear-current" effect and mean-field magnetic dynamos. (English summary) **2005j:85007**
Rüdiger, Günther (*with* Arlt, Rainer) Physics of the solar cycle. **2005g:85006**
Salas, J. Pablo *see* **Iñarrea, Manuel et al., 2005h:85002**
Schmitt, Dieter Dynamo action of magnetostrophic waves. **2005g:85007**
Schüssler, Manfred (*with* Ferriz-Mas, Antonio) Magnetic flux tubes and the dynamo problem. **2005k:85006**
Soward, Andrew M. Thin aspect ratio $\alpha\Omega$-dynamos in galactic discs and stellar shells. **2005f:85003**
Stefani, Frank *see* **Xu, Mingtian et al., 2005k:85008**
Tilgner, A. Precession driven dynamos. (English summary) **2005k:85007**
Xu, Mingtian (*with* Stefani, Frank; Gerbeth, Gunter) Integral equation approach to time-dependent kinematic dynamos in finite domains. (English summary) **2005k:85008**
Yanguas, Patricia *see* **Iñarrea, Manuel et al., 2005h:85002**

Items with secondary classifications in 85A30

Andersson, Nils *see* **Lockitch, Keith H. et al., 2005m:83056**
Ashwin, Peter (*with* Rucklidge, Alastair M.; Sturman, Rob) Two-state intermittency near a symmetric interaction of saddle-node and Hopf bifurcations: a case study from dynamo theory. (English summary) **2005e:37200**
Berger, Mitchell A. Topological quantities in magnetohydrodynamics. **2005e:76084**
Blackman, Eric G. Bihelical magnetic relaxation and large scale magnetic field growth. (English summary) **2005h:76093**
Bogoyavlenskiĭ, Oleg I. *see* **Cheviakov, Alexei F., 2005e:76086**
Brandenburg, Axel Computational aspects of astrophysical MHD and turbulence. **2005c:85001**
Busse, Friedrich H. *see* **Müller, Ulrich[1] et al., 2005f:76114**
Calahorrano Recalde, Marco (*with* Mena, Hermann) Multiple solutions for inhomogeneous nonlinear elliptic problems arising in astrophysics. (English summary) **2005a:35095**
Cattaert, Tom *see* **Verheest, Frank, 2005a:76178**
Cheviakov, Alexei F. (*with* Bogoyavlenskiĭ, Oleg I.) Exact anisotropic MHD equilibria. (English summary) **2005e:76086**
Choquard, Philippe (*with* Wagner, Joël) On a class of implicit solutions of the continuity and Euler's equations for 1D systems with long range interactions. (English summary) **2005k:82102**
Colin, Thierry (*with* Ebrard, G.; Gallice, G.; Texier, Benjamin) Justification of the Zakharov model from Klein-Gordon–wave systems. (English summary) **2005k:35372**
Drake, J. F. *see* **Jemella, B. D. et al., 2005h:76098**
Ducomet, Bernard (*with* Feireisl, Eduard) On the dynamics of gaseous stars. **2005m:35223**
Ebrard, G. *see* **Colin, Thierry et al., 2005k:35372**
Feireisl, Eduard *see* **Ducomet, Bernard, 2005m:35223**
(Ferriz-Mas, Antonio) *see* **Advances in nonlinear dynamos, 2005b:76004**
Gallice, G. *see* **Colin, Thierry et al., 2005k:35372**
Galloway, David Fast dynamos. **2005c:76088**
Goedbloed, J. P. Variational principles for stationary one- and two-fluid equilibria of axisymmetric laboratory and astrophysical plasmas. (English summary) **2005h:76096**
— Response to "Comment on: 'Variational principles for stationary one- and two-fluid equilibria of axisymmetric laboratory and astrophysical plasmas'" [Phys. Plasmas **12** (2005), no. 6, 064701, 2 pp.; MR2148190] by K. G. McClements and A. Thyagaraja. (English summary)
— *see also* **McClements, K. G.**
Hornig, Gunnar *see* **Titov, Vyacheslav S. et al., 2005f:76116** *and* **Pontin, D. I. et al., 2005i:76127**
Hoyng, Peter The field, the mean and the meaning. **2005f:76112**
Hughes, David W. *see* **Kim, Eun-Jin et al., 2005b:76142**
Jemella, B. D. (*with* Drake, J. F.; Shay, M. A.) Singular structure of magnetic islands resulting from reconnection. (English summary) **2005h:76098**
Julien, Keith (*with* Knobloch, Edgar; Tobias, Steve) Highly supercritical convection in strong magnetic fields. **2005i:76122**
Kaladze, T. (*with* Rogava, Dzh. L.; Tsamalashvili, L.; Tsiklauri, Mikheil) Implicit difference schemes for the Charney-Obukhov equation. (English and Georgian summaries) **2005b:86030**
Khater, A. H. (*with* Moawad, S. M.) Equilibrium properties and exact solutions for two-dimensional nonlinear force-free magnetic fields with mass flow. (English summary) **2005m:76188**
Kim, Eun-Jin (*with* Hughes, David W.; Soward, Andrew M.) A nonlinear dynamo driven by rapidly rotating convection. (English summary) **2005b:76142**
Klar, Axel *see* **Seaïd, Mohammed, (2005a:65001)**
Knobloch, Edgar *see* **Julien, Keith et al., 2005i:76122**
Kumari, Mahesh (*with* Nath, G. Baikunth) Transient MHD rotating flow over a rotating sphere in the vicinity of the equator. (English summary)
Li, Shengtai An HLLC Riemann solver for magneto-hydrodynamics. (English summary)
Lockitch, Keith H. (*with* Andersson, Nils; Watts, Anna L.) Regularizing the r-mode problem for nonbarotropic relativistic stars. (English summary) **2005m:83056**
McClements, K. G. (*with* Thyagaraja, A.) Comment on "Variational principles for stationary one- and two-fluid equilibria of axisymmetric laboratory and astrophysical plasmas" [Phys. Plasmas **11** (2004), no. 12, L81–L84; MR2115219 (2005h:76096)] by J. P. Goedbloed. (English summary)
— *see also* **Goedbloed, J. P.**
Mena, Hermann *see* **Calahorrano Recalde, Marco, 2005a:35095**
Moawad, S. M. *see* **Khater, A. H., 2005m:76188**
Müller, Ulrich[1] (*with* Stieglitz, R.; Busse, Friedrich H.) On the sensitivity of dynamo action to the system's magnetic diffusivity. (English summary) **2005f:76114**
Nath, G. Baikunth *see* **Kumari, Mahesh**
(Núñez Jiménez, Manuel) *see* **Advances in nonlinear dynamos, 2005b:76004**
Parker, E. N. Tangential discontinuities in untidy magnetic topologies. (English summary) **2005a:76170**
Passot, T. (*with* Sulem, P. L.) A Landau fluid model for dispersive magnetohydrodynamics. (English summary) **2005i:76124**
Pontin, D. I. (*with* Hornig, Gunnar; Priest, E. R.) Kinematic reconnection at a magnetic null point: fan-aligned current. (English summary) **2005i:76127**
Priest, E. R. *see* **Pontin, D. I. et al., 2005i:76127**
Radwan, Ahmed E. Hydromagnetic stability of gravitational streaming coaxial cylinders with double perturbed interfaces. (English summary) **2005h:76040**
Ricca, Renzo L. Inflexional disequilibrium of magnetic flux-tubes. (English summary) **2005m:76192**
Rogava, Dzh. L. *see* **Kaladze, T. et al., 2005b:86030**
Rucklidge, Alastair M. *see* **Ashwin, Peter et al., 2005e:37200**
Ruderman, Michael (*with* Simpson, D.) Absolute and convective instabilities of parallel propagating circularly polarized Alfvén waves: decay instability. (English summary) **2005f:76115**
Satyamurty, Prakki *see* **Vempaty, Somaraju, 2005e:76090**
Seaïd, Mohammed (*with* Klar, Axel) Efficient preconditioning of linear systems arising from the discretization of radiative transfer equation. (English summary) (*see*

2005a:65001)
Shay, M. A. *see* **Jemella, B. D. et al., 2005h:76098**
Shukurov, Anvar *see* **Willis, Ashley P. et al., 2005a:76174**
Simpson, D. *see* **Ruderman, Michael, 2005f:76115**
Sokolov, D. D. *see* **Willis, Ashley P. et al., 2005a:76174**
Soward, Andrew M. *see* **Willis, Ashley P. et al., 2005a:76174** *and* **Kim, Eun-Jin et al., 2005b:76142**
Stergioulas, Nikolaos Rotating stars in relativity. (English summary) **2005b:83054**
Stieglitz, R. *see* **Müller, Ulrich[1] et al., 2005f:76114**
Sturman, Rob *see* **Ashwin, Peter et al., 2005e:37200**
Sulem, P. L. *see* **Passot, T., 2005i:76124**
Tassi, Emanuele *see* **Titov, Vyacheslav S. et al., 2005f:76116**
Texier, Benjamin *see* **Colin, Thierry et al., 2005k:35372**
Thyagaraja, A. *see* **McClements, K. G.** *and* **Goedbloed, J. P.**
Tilgner, A. Small scale kinematic dynamos: beyond the α-effect. (English summary) **2005a:76173**
Titov, Vyacheslav S. (*with* Tassi, Emanuele; Hornig, Gunnar) Exact solutions for steady reconnective annihilation revisited. (English summary) **2005f:76116**
Tobias, Steve *see* **Julien, Keith et al., 2005i:76122**
Tsamalashvili, L. *see* **Kaladze, T. et al., 2005b:86030**
Tsiklauri, Mikheil *see* **Kaladze, T. et al., 2005b:86030**
Vempaty, Somaraju (*with* Satyamurty, Prakki) Rotating hydromagnetic flow in the presence of a horizontal magnetic field. (English summary) **2005e:76090**
Verheest, Frank (*with* Cattaert, Tom) Large amplitude solitary electromagnetic waves in electron-positron plasmas. (English summary) **2005a:76178**
Wagner, Joël *see* **Choquard, Philippe, 2005k:82102**
Watts, Anna L. *see* **Lockitch, Keith H. et al., 2005m:83056**
Willis, Ashley P. (*with* Shukurov, Anvar; Soward, Andrew M.; Sokolov, D. D.) Non-local effects in the mean-field disc dynamo. II. Numerical and asymptotic solutions. (English summary) **2005a:76174**
Zheligovskiĭ, V. A. Convective plan-form of two-scale dynamos in a plane layer. (English summary) **2005k:76142**

Items listed otherwise than by author

Advances in nonlinear dynamos ★ Advances in nonlinear dynamos. **2005b:76004**

85A40 Cosmology {For relativistic cosmology, see 83F05.}

Ćirković, Milan M. (*with* Milošević-Zdjelar, Vesna) Three's a crowd: on causes, entropy and physical eschatology. (English summary) **2005d:85003**
Frisch, Uriel *see* **Sobolevskiĭ, A., 2005h:85003**
García-Colín, L. S. *see* **Sandoval-Villalbazo, A., 2005m:85004**
Milošević-Zdjelar, Vesna *see* **Ćirković, Milan M., 2005d:85003**
Sandoval-Villalbazo, A. (*with* García-Colín, L. S.) The thermal and kinematic Sunyaev-Zel′dovich effects revisited. (English summary) **2005m:85004**
Sobolevskiĭ, A. (*with* Frisch, Uriel) Application of optimal transportation theory to the reconstruction of the early Universe. (Russian. English and Russian summaries) **2005h:85003**
Weeks, Jeffrey The Poincaré dodecahedral space and the mystery of the missing fluctuations. **2005d:85004**

Items with secondary classifications in 85A40

Binney, James Black holes, cuspy atmospheres and galaxy formation. (English summary) **2005j:85004**
Caillerie, S. *see* **Lachièze-Rey, M., 2005j:33011**
Dowker, J. S. Spherical universe topology and the Casimir effect. (English summary) **2005h:58068**
Ferraro, Mario (*with* Zaninetti, L.) Statistics of visits to sites in random walks. (English summary) **2005f:82041**
Haehnelt, Martin G. The connection between the formation of galaxies and that of their central supermassive black holes. (English summary) **2005j:85002**
Lachièze-Rey, M. (*with* Caillerie, S.) Laplacian eigenmodes for spherical spaces. (English summary) **2005j:33011**
Nakamura, Kouji Black hole in relativity and astrophysics. (Japanese)
Osserman, Robert Mathematics of the heavens. **2005j:00001**
Petersen, W. P. Estimation of weak lensing parameters by stochastic integration. (English summary) **2005a:60083**
Zaninetti, L. *see* **Ferraro, Mario, 2005f:82041**

85A99 Miscellaneous topics

Items with secondary classifications in 85A99

Lachowicz, Mirosław (*with* Laurençot, Philippe; Wrzosek, Dariusz) On the Oort-Hulst-Safronov coagulation equation and its relation to the Smoluchowski equation. (English summary) **2005a:45007**
Laurençot, Philippe *see* **Lachowicz, Mirosław et al., 2005a:45007**
Wrzosek, Dariusz *see* **Lachowicz, Mirosław et al., 2005a:45007**

86–XX Geophysics [see also 76U05, 76V05]

86–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Dubus, A. *see* **Magolu monga Made, M. et al.**
Magolu monga Made, M. (*with* Smidts, O. F.; Dubus, A.) Adaptive adjoint Monte Carlo simulation for the uncertainty. (English summary)
Smidts, O. F. *see* **Magolu monga Made, M. et al.**

86–01 Instructional exposition (textbooks, tutorial papers, etc.)

Items with secondary classifications in 86–01

Penenko, V. V. The use of adjoint problems and iterative functions in the geophysical hydrodynamics algorithms. (English summary) **2005j:86008**

86–03 Historical (must also be assigned at least one classification number from Section 01)

(Ertel, Hans) *see* **Schröder, Wilfried, 2005k:86001**
Schröder, Wilfried Hans Ertel—a pioneer in meteorological sciences: a brief historical review on the 100th anniversary of his birthday. (Russian. Russian summary) **2005k:86001**

Items listed otherwise than by author

Anniversary:
Birth of Ertel, Hans *see* **Schröder, Wilfried, 2005k:86001**

86–05 Experimental work

Items with secondary classifications in 86–05

Ji, Zhongzhen *see* **Wang, Bin[1] et al.**
Liu, Hongtao *see* **Wang, Bin[1] et al.**
Wan, Hui[1] *see* **Wang, Bin[1] et al.**
Wang, Bin[1] (*with* Wan, Hui[1]; Ji, Zhongzhen; Zhang, Xin; Yu, Rucong; Yu, Yongqiang; Liu, Hongtao) Design of a new dynamical core for global atmospheric models based on some efficient numerical methods. (English summary)
Yu, Rucong *see* **Wang, Bin[1] et al.**
Yu, Yongqiang *see* **Wang, Bin[1] et al.**
Zhang, Xin *see* **Wang, Bin[1] et al.**

86–06 Proceedings, conferences, collections, etc.

Items with secondary classifications in 86–06

(Ferriz-Mas, Antonio) *see* **Advances in nonlinear dynamos, 2005b:76004**
(Iske, Armin) *see* **Mathematical methods and modelling in hydrocarbon exploration and production, 2005i:76002**
(Nodera, Takashi) *see* **Mathematics of destructive phenomena**
(Núñez Jiménez, Manuel) *see* **Advances in nonlinear dynamos, 2005b:76004**
(Pastor, Manuel) *see* **Numerical modelling in geomechanics, 2005b:74003**
(Randen, Trygve) *see* **Mathematical methods and modelling in hydrocarbon exploration and production, 2005i:76002**
(Tamagnini, Claudio) *see* **Numerical modelling in geomechanics, 2005b:74003**
(Tani, Atusi) *see* **Mathematics of destructive phenomena**

Items listed otherwise than by author

Advances in nonlinear dynamos ★ Advances in nonlinear dynamos. **2005b:76004**
Mathematical methods and modelling in hydrocarbon exploration and production ★ Mathematical methods and modelling in hydrocarbon exploration and production. **2005i:76002**
Mathematics of destructive phenomena ★ Hakai genshō no sūri. [Mathematics of destructive phenomena]
Numerical modelling in geomechanics ★ Numerical modelling in geomechanics. **2005b:74003**
Yokohama ★ Hakai genshō no sūri. [Mathematics of destructive phenomena]

86–08 Computational methods

Bogachev, K. Yu. (*with* Kobelkov, G. M.) Numerical solution of a tidal wave problem. (*see* **2005b:76005**)
Bonaventura, Luca (*with* Kornblueh, Luis; Heinze, Thomas; Ripodas, Pilar) A semi-implicit method conserving mass and potential vorticity for the shallow water equations on the sphere. (English summary) **2005j:86001**
Castro-Díaz, Manuel Jesús *see* **Macías Sánchez, Jorge et al.**
Chou, Ji Fan *see* **Feng, Guolin et al.**
Črnjarić-Žic, Nelida *see* **Sopta, Luka et al., 2005k:86002**
Davenport, Shelly (*with* Seshaiyer, Padmanabhan) Computational modeling of geophysical systems. (English summary) (*see* **2005g:65008**)
Dong, Wen Jie[2] *see* **Feng, Guolin et al.**
Družeta, Siniša *see* **Sopta, Luka et al., 2005k:86002**
Fang, Fangxin (*with* Pain, Christopher C.; Piggott, M. D.; Gorman, G. J.; Goddard, A. J. H.) An adaptive mesh adjoint data assimilation method applied to free surface flows. (English summary) **2005i:86001**
Feng, Guolin (*with* Dong, Wen Jie[2]; Li, Jian Ping[4]; Chou, Ji Fan) Stability of difference schemes for a self-memorization model. (Chinese. English and Chinese summaries)
Frolov, A. V. *see* **Tolstykh, M. A., 2005m:86002**
Gaeva, Z. S. (*with* Shananin, A. A.) A numerical method for solving the problem of the control of the microstructure of a hail cloud. (Russian. English and Russian summaries) **2005m:86001**
Goddard, A. J. H. *see* **Fang, Fangxin et al., 2005i:86001**
Gorman, G. J. *see* **Fang, Fangxin et al., 2005i:86001**
Guo, Liejin *see* **Kang, Liqiang, 2005g:86001**
Heinze, Thomas *see* **Bonaventura, Luca et al., 2005j:86001**
Holjević, Danko *see* **Sopta, Luka et al., 2005k:86002**
Jauberteau, F. (*with* Temam, Roger) Estimates based on scale separation for geophysical flows. (English and Spanish summaries) **2005b:86001**
Kang, Liqiang (*with* Guo, Liejin) Numerical simulation of aeolian sand ripples. (English summary) **2005g:86001**
Kobelkov, G. M. *see* **Bogachev, K. Yu., (2005b:76005)**
Kornblueh, Luis *see* **Bonaventura, Luca et al., 2005j:86001**
Li, Jian Ping[4] *see* **Feng, Guolin et al.**
Macías Sánchez, Jorge (*with* Parés, Carlos; Castro-Díaz, Manuel Jesús) Numerical simulation in oceanography. Applications to the Alboran Sea and the Strait of Gibraltar.
Pain, Christopher C. *see* **Fang, Fangxin et al., 2005i:86001**
Parés, Carlos *see* **Macías Sánchez, Jorge et al.**
Paz, Rodrigo R. (*with* Storti, Mario A.) An interface strip preconditioner for domain decomposition methods: application to hydrology. (English summary) **2005j:86002**
Piggott, M. D. *see* **Fang, Fangxin et al., 2005i:86001**
Prusa, Joseph M. *see* **Smolarkiewicz, Piotr K., 2005j:86003**
Randen, Trygve *see* **Richardsen, Stine Kjersti, (2005i:76002)**
Richardsen, Stine Kjersti (*with* Randen, Trygve) Mapping 3D geo-bodies based on level set and marching methods. (English summary) (*see* **2005i:76002**)
Ripodas, Pilar *see* **Bonaventura, Luca et al., 2005j:86001**
Seshaiyer, Padmanabhan *see* **Davenport, Shelly, (2005g:65008)**
Shananin, A. A. *see* **Gaeva, Z. S., 2005m:86001**
Škifić, Jerko *see* **Sopta, Luka et al., 2005k:86002**
Smolarkiewicz, Piotr K. (*with* Prusa, Joseph M.) Towards mesh adaptivity for geophysical turbulence: continuous mapping approach. (English summary) **2005j:86003**
Sopta, Luka (*with* Črnjarić-Žic, Nelida; Vuković, Senka; Holjević, Danko; Škifić, Jerko; Družeta, Siniša) Numerical simulations of water wave propagation and flooding. (English summary) **2005k:86002**
Storti, Mario A. *see* **Paz, Rodrigo R., 2005j:86002**
Temam, Roger *see* **Jauberteau, F., 2005b:86001**
Tolstykh, M. A. (*with* Frolov, A. V.) Some current problems in numerical weather prediction. (Russian) **2005m:86002**
Vuković, Senka *see* **Sopta, Luka et al., 2005k:86002**
Werther, Tobias Optimal multivariate interpolation. (English summary) (*see* **2005i:76002**)

Items with secondary classifications in 86–08

Ackerer, Ph. *see* **Hoteit, H. et al., 2005e:76060**
Alexander, Francis J. *see* **Eyink, Gregory L. et al., 2005f:82125**
Anderson, Michael Lindsay *see* **Chow, Shue-Sum et al., 2005i:65184**
Ascher, U. M. (*with* Haber, Eldad) A multigrid method for distributed parameter estimation problems. (English summary) **2005a:65148**
Bale, Derek S. *see* **Rossmanith, James A. et al., 2005h:65139**
Baxter, J. *see* **Heyes, D. M. et al., 2005b:76104**
Bithell, Mike *see* **Richards, Keith et al., 2005b:74126**
Blatter, Heinz *see* **Picasso, Marco et al., 2005g:86026**
Boris, Jay P. *see* **Patnaik, Gopal et al.**
Bourchtein, Andrei (*with* Naumov, Maxim) Dependence of the stability of semi-implicit atmospheric models on reference temperature profile. (English summary) **2005g:86013**
Bruch, J. C., Jr. *see* **Jiang, Bin et al., (2005b:65003)**
Bunge, Hans-Peter *see* **Fournier, Alexandre et al., 2005k:76090**
Carey, Graham F. *see* **Chow, Shue-Sum et al., 2005i:65184**
Cea, L. (*with* Ferreiro Ferreiro, Ana M.; Vázquez-Cendón, María Elena; Puertas, J.) Experimental and numerical analysis of solitary waves generated by bed and boundary movements. (English summary) **2005g:86004**
Chacón-Rebollo, Tomás (*with* Rodríguez Gómez, David) Numerical investigation of the regularity of the pressure for the primitive equations of the ocean. (English summary) **2005h:86004**
— (*with* Rodríguez Gómez, David) A stabilized space-time discretization for the primitive equations in oceanography. (English summary) **2005g:86005**
Chichinina, T. I. (*with* Sabinin, Vladimir; Ronquillo Jarillo, Gerardo) Numerical modeling of P-wave AVOA in media containing vertical fractures. (English summary) **2005c:86004**
Chini, Gregory P. (*with* Leibovich, Sidney) An analysis of the Klemp and Durran radiation boundary condition as applied to dissipative internal waves. (English summary) **2005a:86002**
Chou, Ji Fan *see* **Dai, Xingang et al.**
Chow, Shue-Sum (*with* Carey, Graham F.; Anderson, Michael Lindsay) Finite element approximations of a glaciology problem. (English summary) **2005i:65184**
Cleary, Paul W. (*with* Prakash, Mahesh) Discrete-element modelling and smoothed particle hydrodynamics: potential in the environmental sciences. (English summary) **2005b:76100**
Cornaton, Fabien (*with* Perrochet, Pierre; Diersch, Hans-Jörg) A finite element formulation of the outlet gradient boundary condition for convective-diffusive transport problems. (English summary)
Cotter, Colin John (*with* Reich, Sebastian) Adiabatic invariance and applications: from molecular dynamics to numerical weather prediction. (English summary) **2005g:37119**
Dai, Xingang (*with* Wang, Ping[8]; Chou, Ji Fan) A quasi-geostrophic wavelet-spectrum model for barotropic atmosphere and its numerical solution. (English summary)
Davison, Matt *see* **Doeschl, Andrea et al., 2005h:65278**
De Chant, Lawrence J. Approximate inertial manifold-based finite-difference operators and quasi-steady solutions of parabolic PDEs with application to sediment transport. (English summary) **2005d:37160**
Diersch, Hans-Jörg *see* **Cornaton, Fabien et al.**

Dixon, Matthew F. (*with* Reich, Sebastian) Symplectic time-stepping for particle methods. (English summary)
Doeschl, Andrea (*with* Davison, Matt; Rasmussen, Henning; Reid, Gregory John) Assessing cellular automata based models using partial differential equations. (English summary) **2005h:65278**
Dove, Martin *see* **Richards, Keith et al., 2005b:74126**
Eyink, Gregory L. (*with* Restrepo, Juan M.; Alexander, Francis J.) A mean field approximation in data assimilation for nonlinear dynamics. (English summary) **2005f:82125**
Farmer, Christopher Geological modelling and reservoir simulation. (English summary) **2005j:86021**
Fernandez Merodo, José Antonio (*with* Pastor, Manuel) Finite element modelling of landslides. (*see* **2005b:74003**)
Ferreiro Ferreiro, Ana M. *see* **Cea, L. et al., 2005g:86004**
Fournier, Alexandre (*with* Bunge, Hans-Peter; Hollerbach, Rainer; Vilotte, Jean-Pierre) A Fourier-spectral element algorithm for thermal convection in rotating axisymmetric containers. (English summary) **2005k:76090**
Funk, Martin[2] *see* **Picasso, Marco et al., 2005g:86026**
Gervais, Véronique (*with* Masson, Roland) Mathematical and numerical analysis of a stratigraphic model. (English summary) **2005g:86027**
Griffies, Stephen M. ★ Fundamentals of ocean climate models. **2005d:86003**
Grinstein, Fernando F. *see* **Patnaik, Gopal et al.**
Gvozdev, V. V. *see* **Kobelkov, G. M., 2005e:86002**
Haber, Eldad *see* **Ascher, U. M., 2005a:65148**
Heald, John (*with* McEwan, Ian; Tait, Simon) Sediment transport over a flat bed in a unidirectional flow: simulations and validation. (English summary)
Heimbach, Patrick *see* **Naumann, Uwe, 2005g:86007**
Herskovits, J. *see* **Leont'ev, A. N. et al.**
Heyes, D. M. (*with* Baxter, J.; Tüzün, U.; Qin, R. S.) Discrete-element method simulations: from micro to macro scales. (English summary) **2005b:76104**
Hodge, Rebecca *see* **Richards, Keith et al., 2005b:74126**
Hollerbach, Rainer *see* **Fournier, Alexandre et al., 2005k:76090**
Hoteit, H. (*with* Ackerer, Ph.; Mosé, R.) Nuclear waste disposal simulations: Couplex test cases. (English summary) **2005e:76060**
Huacasi, W. *see* **Leont'ev, A. N. et al.**
Hudson, Justin (*with* Sweby, Peter K.) A high-resolution scheme for the equations governing 2D bed-load sediment transport. (English summary) **2005k:65174**
Iselin, John P. *see* **Patnaik, Gopal et al.**
Iske, Armin *see* **Käser, Martin, 2005j:76085**
Jeltsch, Rolf *see* **Sawyer, William, (2005j:65003)**
Jiang, Bin (*with* Bruch, J. C., Jr.; Sloss, J. M.) Numerical solution for domain decomposed, heterogeneously modeled seepage problems. (English summary) (*see* **2005b:65003**)
Juanes, Ruben A variational multiscale finite element method for multiphase flow in porous media. (English summary) **2005j:76084**
Kaladze, T. (*with* Rogava, Dzh. L.; Tsamalashvili, L.; Tsiklauri, Mikheil) Implicit difference schemes for the Charney-Obukhov equation. (English and Georgian summaries) **2005b:86030**
— (*with* Rogava, Dzh. L.; Tsamalashvili, L.; Tsiklauri, Mikheil) First- and second-order accurate implicit difference schemes for the Charney-Obukhov equation. (English summary) **2005b:76094**
Käser, Martin (*with* Iske, Armin) Reservoir flow simulation by adaptive ADER schemes. (English summary) **2005j:76085**
Kobelkov, G. M. (*with* Gvozdev, V. V.) Numerical solution of the ocean data assimilation problem. (English summary) **2005e:86002**
Leibovich, Sidney *see* **Chini, Gregory P., 2005a:86002**
Leont'ev, A. N. (*with* Huacasi, W.; Herskovits, J.; Mota Soares, Cristóvão M.) Numerical simulation of the forest impact on aquifers. (English summary)
LeVeque, Randall J. *see* **Rossmanith, James A. et al., 2005h:65139**
Lin, Wan Tao *see* **Mo, Jia Qi et al.**
Masson, Roland *see* **Gervais, Véronique, 2005g:86027**
(McDougall, Trevor J.) *see* **Griffies, Stephen M., 2005d:86003**
McEwan, Ian *see* **Heald, John et al.**
Mo, Jia Qi (*with* Lin, Wan Tao; Zhu, Jiang[3]) A variational iteration method for studying the ENSO mechanism. (English summary)
Mosé, R. *see* **Hoteit, H. et al., 2005e:76060**
Mota Soares, Cristóvão M. *see* **Leont'ev, A. N. et al.**
Nakajima, Kengo (*with* Okuda, Hiroshi) Parallel iterative solvers with selective blocking preconditioning for simulations of fault-zone contact. (English summary) **2005m:65069**
Naumann, Uwe (*with* Heimbach, Patrick) Coupling tangent-linear and adjoint models. (English summary) **2005g:86007**
Naumov, Maxim *see* **Bourchtein, Andrei, 2005g:86013**
Okuda, Hiroshi *see* **Nakajima, Kengo, 2005m:65069**
Pastor, Manuel *see* **Fernandez Merodo, José Antonio, (2005b:74003)**
Patnaik, Gopal (*with* Boris, Jay P.; Grinstein, Fernando F.; Iselin, John P.) Large scale urban simulations with FCT. (English summary)
Perrochet, Pierre *see* **Cornaton, Fabien et al.**
Picasso, Marco (*with* Rappaz, Jacques; Reist, Adrian; Funk, Martin[2]; Blatter, Heinz) Numerical simulation of the motion of a two-dimensional glacier. (English summary) **2005g:86026**
Prakash, Mahesh *see* **Cleary, Paul W., 2005b:76100**
Puertas, J. *see* **Cea, L. et al., 2005g:86004**
Qin, R. S. *see* **Heyes, D. M. et al., 2005b:76104**
Rappaz, Jacques *see* **Picasso, Marco et al., 2005g:86026**
Rasmussen, Henning *see* **Doeschl, Andrea et al., 2005h:65278**
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Reid, Gregory John *see* **Doeschl, Andrea et al., 2005h:65278**
Reist, Adrian *see* **Picasso, Marco et al., 2005g:86026**
Restrepo, Juan M. *see* **Eyink, Gregory L. et al., 2005f:82125**
Richards, Keith (*with* Bithell, Mike; Dove, Martin; Hodge, Rebecca) Discrete-element modelling: methods and applications in the environmental sciences. (English summary) **2005b:74126**
Rodríguez Gómez, David *see* **Chacón-Rebollo, Tomás, 2005g:86005** *and* **2005h:86004**
Rogava, Dzh. L. *see* **Kaladze, T. et al., 2005b:76094** *and* **2005b:86030**
Ronquillo Jarillo, Gerardo *see* **Chichinina, T. I. et al., 2005c:86004**
Rossmanith, James A. (*with* Bale, Derek S.; LeVeque, Randall J.) A wave propagation algorithm for hyperbolic systems on curved manifolds. (English summary) **2005h:65139**
Sabinin, Vladimir *see* **Chichinina, T. I. et al., 2005c:86004**
Salmon, Rick Poisson-bracket approach to the construction of energy- and potential-enstrophy-conserving algorithms for the shallow-water equations. (English summary) **2005g:86008**
Sawyer, William (*with* Jeltsch, Rolf) A finite-volume mass- and vorticity-conserving shallow-water model using penta-/hexagonal grids. (English summary) (*see* **2005j:65003**)
Simpson, Jamesina J. (*with* Taflove, Allen) Three-dimensional FDTD modeling of impulsive ELF propagation about the Earth-sphere. (English summary)
Sloss, J. M. *see* **Jiang, Bin et al., (2005b:65003)**
Sweby, Peter K. *see* **Hudson, Justin, 2005k:65174**
Taflove, Allen *see* **Simpson, Jamesina J.**
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Vázquez-Cendón, María Elena *see* **Cea, L. et al., 2005g:86004**
Vilotte, Jean-Pierre *see* **Fournier, Alexandre et al., 2005k:76090**
Wang, Cheng[4] Convergence analysis of the numerical method for the primitive equations formulated in mean vorticity on a Cartesian grid. (English summary) **2005m:76184**
Wang, Ping[8] *see* **Dai, Xingang et al.**
Zhu, Jiang[3] *see* **Mo, Jia Qi et al.**

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Corso, G. *see* **Soares, R. F. et al., 2005d:86001**
Dubey, Balram Models for the effect of high speed wind on the depletion of fertile topsoil. (English summary) **2005j:86004**
El'tsov, I. N. *see* **Shelukhin, Vladimir, 2005h:86001**
Freitas, J. E. *see* **Soares, R. F. et al., 2005d:86001**
Granat, Robert A. A method of hidden Markov model optimization for use with geophysical data sets. (English summary) **2005g:86002**
Grigor'ev, Yu. M. (*with* Skryabina, O. E.) Mathematical problems of modeling the directed transfer of interior masses of the Earth by tidal deformations. (Russian)
Il'ichev, A. T. (*with* Tsypkin, G. G.) Transition to instability of the interface in geothermal systems. (English summary) **2005m:86003**
Kutas, R. I. *see* **Starostenko, V. I. et al.**
Legostaeva, O. V. *see* **Starostenko, V. I. et al.**
Lucena, L. S. *see* **Soares, R. F. et al., 2005d:86001**
Markov, Yu. G. (*with* Sinitsyn, I. N.) Spectral-correlation models of fluctuations in the rotation of the Earth. (Russian) **2005i:86002**
— (*with* Sinitsyn, I. N.) The influence of parametric fluctuation-dissipative forces on the motion of the Earth's pole. (Russian) **2005k:86003**
Paul, Gerald *see* **Soares, R. F. et al., 2005d:86001**
Raye, J. K. Using nonlinear dynamics to predict Old Faithful. (English summary) **2005m:86004**
Runovc, F. *see* **Vrankar, L. et al., 2005h:86002**
Shelukhin, Vladimir (*with* El'tsov, I. N.) Peculiarities of invasion zones in lateral borehole drilling. (Russian. Russian summary) **2005h:86001**
da Silva, L. R. *see* **Soares, R. F. et al., 2005d:86001**
Sinitsyn, I. N. *see* **Markov, Yu. G., 2005i:86002** *and* **2005k:86003**
Skryabina, O. E. *see* **Grigor'ev, Yu. M.**
Soares, R. F. (*with* Corso, G.; Lucena, L. S.; Freitas, J. E.; da Silva, L. R.; Paul, Gerald; Stanley, H. Eugene) Distribution of shortest paths at percolation threshold: application to oil recovery with multiple wells. (English summary) **2005d:86001**
Stanley, H. Eugene *see* **Soares, R. F. et al., 2005d:86001**
Starostenko, V. I. (*with* Kutas, R. I.; Legostaeva, O. V.) Solution of direct stationary geothermal problems for an inhomogeneous arbitrarily truncated vertical rectangular prism. (Russian. Russian summary)
Strakhov, V. N. On a generalization of the method of linear integral equations, which is of principal importance in gravimetry and magnetometry. Derivation of the basic relations of the method of linear integral representations. (Russian) **2005i:86003**
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de Aguiar, Marilton Sanchotene (*with* Dimuro, Graçaliz Pereira; da Rocha Costa, Antônio Carlos) ICTM: an interval tessellation-based model for reliable topographic segmentation. (English summary) **2005i:65070**
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— (*with* García-Rodríguez, J. A.; González Vida, José M.; Parés, Carlos) Numerical solution of two-layer shallow water equations using finite volume schemes. (Spanish. Spanish summary) **2005i:86004**
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Smirnov, S. A. (*with* Baines, P. G.; Boyer, Don L.; Voropaev, S. I.; Srdic-Mitrovic, A. N.) Long-time evolution of linearly stratified spin-up flows in axisymmetric geometries. (English summary)
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Swaters, Gordon On the meridional flow of source-driven abyssal currents along a continental slope. (English summary) (*see* **2005b:76003**)
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Fu, Zun-Tao (*with* Chen, Zhe²; Liu, Shi-Da; Liu, Shi-Kuo) Periodic structure of equatorial envelope Rossby wave under influence of diabatic heating. (English summary) **2005g:76020**
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— (*with* Duan, Jin Qiao) Averaging principle for quasi-geostrophic motion under rapidly oscillating forcing. (Chinese. English and Chinese summaries)

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— *see also* **Caillol, P., 2005m:76036**
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— (*with* Zhu, Jiang[3]; Zeng, Qing Cun; Xie, Zheng Hui) Mixed finite element methods for the shallow water equations including current and silt sedimentation. II. The discrete-time case along characteristics. (Chinese. English and Chinese summaries) **2005a:76103**
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— On a non-homogeneous bi-layer shallow-water problem: smoothness and uniqueness results. (English summary) **2005h:76027**
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Oberman, Adam M. *see* **McCann, Robert J., 2005g:37164**
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Pain, Christopher C. *see* **Fang, Fangxin et al., 2005i:86001**
Parés, Carlos *see* **Macías Sánchez, Jorge et al.**
Pascal, J. P. (*with* Moodie, T. B.; D'Alessio, S. J. D.) Stratified two-layer thermally-enhanced gravity-driven flows. (English summary) **2005g:76021**
— *see also* **D'Alessio, S. J. D. et al., 2005b:76032**
Pavec, Marc (*with* Carton, Xavier J.) Parametric instability of a two-layer wall jet. (English summary) **2005g:76040**
— (*with* Carton, Xavier J.; Swaters, Gordon) Baroclinic instability of frontal geostrophic currents over a slope. (English summary) **2005m:76091**
Pelinovskiĭ, E. N. *see* **Dubinina, V. A. et al., 2005m:76027** *and* **Grimshaw, Roger H. J. et al.**
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Petcu, Madalina Gevrey class regularity for the primitive equations in space dimension 2. (English summary) **2005g:35248**
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Saleri, Fausto *see* **Ferrari, Stefania, 2005e:76029**
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Su, Ninghu (*with* Liu, Fa Wang; Anh, V. V.) Simulating seawater intrusion in aquifers using the modified Fokker-Planck equation and Boussinesq equation subject to phase-modulated tidal waves. (English summary) (*see* **2005a:62014**)
Suito, Hiroshi (*with* Kawarada, Hideo) Numerical simulation of spilled oil by fictitious domain method. (English summary) **2005a:76008**
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Swaters, Gordon *see* **Pavec, Marc et al., 2005m:76091**
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Wang, Cheng[4] Convergence analysis of the numerical method for the primitive equations formulated in mean vorticity on a Cartesian grid. (English summary) **2005m:76184**
Wang, Wei[6] (*with* Sun, Jian Hua[1]; Duan, Jin Qiao) Dynamics of the thermohaline circulation under uncertainty. (English summary) **2005c:35245**
Westdickenberg, Michael *see* **Bouchut, François, 2005m:76026**
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Wiggins, Stephen The dynamical systems approach to Lagrangian transport in oceanic flows. (English summary) **2005i:37102**
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"The norm dependence of singular vectors" Corrigendum: "The norm dependence of singular vectors" [J. Atmospheric Sci. **61** (2004), no. 23, 2943–2949; MR2106383 (2005h:86011a)] by Z. Kuang. **2005h:86011b**

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— *see also* **Chagnon, Jeffrey M., 2005m:86014; 2005m:86015** *and* **Auslander, Glenn M.**
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— (*with* Naumov, Maxim) Dependence of the stability of semi-implicit atmospheric models on reference temperature profile. (English summary) **2005g:86013**
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— (*with* Grimshaw, Roger H. J.; Eckermann, Stephen D.) Reply: "Comments on: 'Internal waves in a Lagrangian reference frame'" [J. Atmospheric Sci. **62** (2005), no. 1, 251–253; MR2114471 (2005j:86013b)] by C. O. Hines. **2005j:86013c**
— *see also* **Hines, Colin O., 2005j:86013b**
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— (*with* Bannon, Peter R.) Wave response during hydrostatic and geostrophic adjustment. II. Potential vorticity conservation and energy partitioning. (English summary) **2005m:86015**
Chai, Tianfeng *see* **Carmichael, Gregory R. et al., (2005g:65007)**
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Dai, Xingang (*with* Wang, Ping[8]; Chou, Ji Fan) A quasi-geostrophic wavelet-spectrum model for barotropic atmosphere and its numerical solution. (English summary)
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Ehrendorfer, Martin A vector derivation of the semigeostrophic potential vorticity equation. (English summary) **2005b:86027**
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— *see also* **Broutman, Dave et al., 2005j:86013c**
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— *see also* **Errata: "The norm dependence of singular vectors", 2005h:86011b**
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— *see also* **Crommelin, D. T., 2005d:86006; Biello, Joseph A., 2005e:86007; Abramov, Rafail V. et al., 2005i:86009** *and* **Franzke, Christian et al., 2005m:86017**
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Shefter, Michael G. *see* **Majda, Andrew J. et al., 2005g:86017**
Shell, Karen M. (*with* Held, Isaac M.) Abrupt transition to strong superrotation in an axisymmetric model of the upper troposphere. (English summary) **2005h:86019**
Shepherd, Theodore G. (*with* Shaw, Tiffany A.) The angular momentum constraint on climate sensitivity and downward influence in the middle atmosphere. (English summary) **2005h:86020**
Silva Dias, Pedro L. *see* **Raupp, Carlos F. M., 2005m:86018**
Slawig, Thomas (*with* Zickfeld, Kirsten) Parameter optimization using algorithmic differentiation in a reduced-form model of the Atlantic thermohaline circulation. (English summary) **2005b:86034**
Sølna, Knut *see* **Fannjiang, Albert C., 2005i:86011**
Song, In-Sun (*with* Chun, Hye-Yeong) Momentum flux spectrum of convectively forced internal gravity waves and its application to gravity wave drag parameterization. I. Theory. (English summary) **2005i:86014**
Straub, Katherine H. *see* **Majda, Andrew J. et al., 2005g:86017**
Subba Rao, J. *see* **Azad, Rajeev K. et al., 2005a:86019**
Tang, Yi Ming *see* **Zhong, Mou**
Thorpe, A. J. *see* **Frame, T. H. A. et al., 2005i:86012**
Titi, Edriss S. *see* **Cao, Chongsheng et al., 2005g:86014**
Tomita, Hirofumi (*with* Satoh, Masaki) A new dynamical framework of nonhydrostatic global model using the icosahedral grid. (English summary) **2005a:86024**
Tribbia, J. *see* **Navarra, Antonio, 2005h:86016** *and* **Errata: "The coupled manifold"**
Tsamalashvili, L. *see* **Kaladze, T. et al., 2005b:86030**
Tse, Kwan Leung *see* **Joseph, Binson et al., 2005b:86029**
Tsiklauri, Mikheil *see* **Kaladze, T. et al., 2005b:86030**
Vanden-Eijnden, Eric *see* **Franzke, Christian et al., 2005m:86017**
Vanneste, J. (*with* Yavneh, Irad) Exponentially small inertia-gravity waves and the breakdown of quasigeostrophic balance. (English summary) **2005a:86025**

Verhulst, F. *see* **Crommelin, D. T. et al., 2005b:86024**
Verkley, W. T. M. (*with* Gerkema, T.) On maximum entropy profiles. (English summary) **2005a:86026**
Vilenski, Gregory Germanovich *see* **Johnson, Edward R., 2005g:86016**
Vollaro, David *see* **Molinari, John et al.**
Wakefield, M. A. (*with* Cullen, Michael J. P.) Modelling the response of the atmosphere to equatorial forcing. (English summary) **2005j:86015**
Wan, Hui[1] *see* **Wang, Bin[1] et al.**
Wang, Bin[1] (*with* Wan, Hui[1]; Ji, Zhongzhen; Zhang, Xin; Yu, Rucong; Yu, Yongqiang; Liu, Hongtao) Design of a new dynamical core for global atmospheric models based on some efficient numerical methods. (English summary)
Wang, Chia-chi (*with* Magnusdottir, Gudrun) ITCZ breakdown in three-dimensional flows. (English summary) **2005m:86019**
Wang, Hui[1] *see* **Mo, Jia Qi et al., 2005k:86014**
Wang, Ling[3] (*with* Geller, Marvin A.; Alexander, M. Joan) Spatial and temporal variations of gravity wave parameters. I. Intrinsic frequency, wavelength, and vertical propagation direction. (English summary)
Wang, Ping[8] *see* **Dai, Xingang et al.**
Watkinson, L. R. (*with* Lawless, A. S.; Nichols, N. K.; Roulstone, I.) Variational data assimilation for Hamiltonian problems. (English summary) **2005k:86015**
Waugh, Darryn W. *see* **Rong, Ping-Ping, 2005b:86033**
Williams, R. T. *see* **Kuo, Hung-Chi et al., 2005h:86012**
Yavneh, Irad *see* **Vanneste, J., 2005a:86025**
Yu, Rucong *see* **Wang, Bin[1] et al.**
Yu, Yongqiang *see* **Wang, Bin[1] et al.**
Zeytounian, Radyadour Kh. Weather prediction as a problem in fluid dynamics (on the 100th birthday of I. A. Kibel). (Russian. Russian summary) **2005k:86016**
Zhang, Xin *see* **Wang, Bin[1] et al.**
Zhong, Mou (*with* Tang, Yi Ming) Well-posedness of initial-value problems for simplified atmospheric motion equations. (Chinese. English and Chinese summaries)
Ziane, Mohammed *see* **Cao, Chongsheng et al., 2005g:86014**
Zickfeld, Kirsten *see* **Slawig, Thomas, 2005b:86034**
Zlatev, Z. *see* **Dimov, Ivan T. et al., 2005f:86003**
Zurita-Gotor, Pablo (*with* Lindzen, Richard S.) Baroclinic equilibration and the maintenance of the momentum balance. I. A barotropic analog. (English summary) **2005b:86035**
— (*with* Lindzen, Richard S.) Baroclinic equilibration and the maintenance of the momentum balance. II. 3D results. (English summary) **2005b:86036**

Items listed otherwise than by author

Anniversary:
Birth of Kibel, I. A. *see* **Zeytounian, Radyadour Kh., 2005k:86016**
Errata:
"The coupled manifold" Corrigendum: "The coupled manifold" [J. Atmospheric Sci. **62** (2005), no. 2, 310–330; MR2119772 (2005h:86016)] by A. Navarra and J. Tribbia.
"The norm dependence of singular vectors" Corrigendum: "The norm dependence of singular vectors" [J. Atmospheric Sci. **61** (2004), no. 23, 2943–2949; MR2106383 (2005h:86011a)] by Z. Kuang. **2005h:86011b**

Items with secondary classifications in 86A10

Amundson, Neal R. (*with* Caboussat, Alexandre; He, Jiwen; Seinfeld, John H.; Yoo, Kee-Youn) An optimization problem related to the modeling of atmospheric inorganic aerosols. (English and French summaries) **2005k:90232**
— (*with* Caboussat, Alexandre; He, Jiwen; Seinfeld, John H.) An optimization problem related to the modeling of atmospheric organic aerosols. (English and French summaries)
Ayari, Mohamed Yassine (*with* Coatanhay, Arnaud; Khenchaf, Ali) Electromagnetic propagation in troposphere: inverse problem using optimization approaches. (English summary) (*see* **2005b:00020**)
Bahrami, F. *see* **Emamizadeh, B. et al.**
Balasuriya, Sanjeeva An analytical study of general hyper-diffusivity and barotropic eddies. (English summary) **2005k:86004**
Bartuccelli, Michele V. *see* **Kyrychko, Yuliya N., 2005g:76027**
Bertero, M. (*with* Boccacci, P.; Robberto, M.) Inversion of second-difference operators with application to infrared astronomy. (English summary) **2005d:39096**
Bettencourt, M. T. *see* **Sajjadi, S. G., 2005a:86009**
Biello, Joseph A. (*with* Majda, Andrew J.) Boundary layer dissipation and the nonlinear interaction of equatorial baroclinic and barotropic Rossby waves. (English summary) **2005m:76043**
Boccacci, P. *see* **Bertero, M. et al., 2005d:39096**
Bonaventura, Luca (*with* Kornblueh, Luis; Heinze, Thomas; Ripodas, Pilar) A semi-implicit method conserving mass and potential vorticity for the shallow water equations on the sphere. (English summary) **2005j:86001**
Broutman, Dave (*with* Rottman, James W.; Eckermann, Stephen D.) Ray methods for internal waves in the atmosphere and ocean. (English summary) **2005a:76027**
Budyansky, M. (*with* Uleĭskiĭ, M. Yu.; Prants, S.) Hamiltonian fractals and chaotic scattering of passive particles by a topographical vortex and an alternating current. (English summary) **2005e:76049**
Caboussat, Alexandre *see* **Amundson, Neal R. et al., 2005k:90232**
Cai, David (*with* Haven, Kyle; Majda, Andrew J.) Quantifying predictability in a simple model with complex features. (English summary) **2005f:37187**
Campbell, L. J. Wave-mean-flow interactions in a forced Rossby wave packet critical layer. (English summary) **2005a:76160**
Charve, Frédéric Global well-posedness and asymptotics for a geophysical fluid system. (English summary) **2005i:76116**
Chen, Da Duan (*with* He, You Hua) On the well-posedness of the initial value problem of non-static rotating fluid. (Chinese. English and Chinese summaries) **2005h:76082**
Chen, Zhe[2] (*with* Fu, Zun-Tao; Liu, Shi-Kuo) Periodic structures of oceanic Rossby wave under the influence of wind stress. (English summary)
Cheverry, Christophe Propagation of oscillations in real vanishing viscosity limit. (English summary) **2005d:35154**
Chou, Ji Fan *see* **Feng, Guolin et al.**
Chueshov, Igor D. (*with* Raugel, Geneviève; Rekalo, Andrey M.) Interface boundary value problem for the Navier-Stokes equations in thin two-layer domains. (English summary) **2005h:35268**
Coatanhay, Arnaud *see* **Ayari, Mohamed Yassine et al., (2005b:00020)**
Cotter, Colin John (*with* Reich, Sebastian) Adiabatic invariance and applications: from molecular dynamics to numerical weather prediction. (English summary) **2005g:37119**
Craigmile, Peter F. *see* **Whitcher, Brandon**
Dobrokhotov, S. Yu. (*with* Semenov, E. S.; Tirozzi, Brunello) On the computation of integrals of the Hugoniot-Maslov chain for singular vortex solutions of the shallow-water equations. (Russian. Russian summary) **2005c:37119**
Dong, Wen Jie[2] *see* **Feng, Guolin et al.**
Duan, Jin Qiao *see* **Gao, Hong Jun, 2005e:35096**
Eckermann, Stephen D. *see* **Broutman, Dave et al., 2005a:76027**
Emamizadeh, B. (*with* Bahrami, F.; Mehrabi, M. H.) Steiner symmetric vortices attached to seamounts. (English summary)
Feliks, Yizhak Nonlinear dynamics and chaos in the sea and land breeze. (English summary)
Feng, Guolin (*with* Dong, Wen Jie[2]; Li, Jian Ping[4]; Chou, Ji Fan) Stability of difference schemes for a self-memorization model. (Chinese. English and Chinese summaries)
Fitzgibbon, William E. (*with* Langlais, Michel; Morgan, Jeffrey J.) Strong solutions to a class of air quality models. (English and French summaries) **2005h:35191**
Frolov, A. V. *see* **Tolstykh, M. A., 2005m:86002**
Fu, Zun-Tao (*with* Liu, Shi-Da; Liu, Shi-Kuo) Structures of equatorial envelope Rossby wave under a generalized external forcing. (English summary)
— *see also* **Chen, Zhe[2] et al.**
Gaeva, Z. S. (*with* Shananin, A. A.) A numerical method for solving the problem of the control of the microstructure of a hail cloud. (Russian. English and Russian summaries) **2005m:86001**
Gao, Hong Jun (*with* Duan, Jin Qiao) Dynamics of a coupled atmosphere-ocean model. (English summary) **2005e:35096**
Giovangigli, Vincent (*with* Graille, Benjamin) Asymptotic stability of equilibrium states for ambipolar plasmas. (English summary) **2005m:82152**
Gorostiza, Luis G. (*with* Porter, R. M.; Rodrigues, E. R.) A stochastic model for transport of size-structured particulate matter subject to fragmentation. (English summary) **2005c:76085**
Graille, Benjamin *see* **Giovangigli, Vincent, 2005m:82152**
Gutiérrez, Rafael M. Optimal nonlinear models from empirical time series: an application to climate. (English summary)
Han, Wei *see* **Huang, Si Xun, 2005e:86008**
Haven, Kyle *see* **Cai, David et al., 2005f:37187**
He, Jiwen *see* **Amundson, Neal R. et al., 2005k:90232**
He, You Hua *see* **Chen, Da Duan, 2005h:76082**
Heinze, Thomas *see* **Bonaventura, Luca et al., 2005j:86001**
Held, Hermann *see* **Kriegler, Elmar, 2005k:62249**
Herrmann, Samuel (*with* Imkeller, Peter) The exit problem for diffusions with time-periodic drift and stochastic resonance. (English summary) **2005j:60147**
Hoskins, B. J. *see* **Johnson, Christine et al., 2005i:86018**
Huang, Si Xun (*with* Han, Wei) Application of techniques in inverse problems to variational data assimilation in meteorology and oceanography. (English summary) **2005e:86008**
Imkeller, Peter *see* **Herrmann, Samuel, 2005j:60147**
Jacobson, Tivon E. (*with* Tabak, Esteban G.) Standing shocks in a rotating channel. (English summary) **2005f:76015**
Johnson, Christine (*with* Nichols, N. K.; Hoskins, B. J.) Very large inverse problems in atmosphere and ocean modelling. (English summary) **2005i:86018**
Johnson, Edward R. *see* **Vilenski, Gregory Germanovich, 2005f:76107**
Ju, Ning Existence and uniqueness of the solution to the dissipative 2D quasi-geostrophic equations in the Sobolev space. (English summary) **2005h:76084**
— The maximum principle and the global attractor for the dissipative 2D quasi-geostrophic equations. (English summary) **2005m:37194**
Kahlig, Peter (*with* Matkowski, Janusz) A modified Gołab-Schinzel equation on a restricted domain (with applications to meteorology and fluid mechanics). (English summary) **2005f:39067**
Kalashnik, M. V. Analytic solutions in the theory of deformation frontogenesis. (Russian) **2005i:76030**
Khain, Alexander *see* **Pinsky, Mark B. et al., 2005b:76076**
Khenchaf, Ali *see* **Ayari, Mohamed Yassine et al., (2005b:00020)**
Klaassen, G. P. *see* **Yau, K.-H. et al., 2005b:76062**
Kornblueh, Luis *see* **Bonaventura, Luca et al., 2005j:86001**
Kriegler, Elmar (*with* Held, Hermann) Utilizing belief functions for the estimation of future climate change. (English summary) **2005k:62249**
Kumari, Mahesh (*with* Nath, G. Baikunth) Transient MHD rotating flow over a rotating sphere in the vicinity of the equator. (English summary)
Kyrychko, Yuliya N. (*with* Bartuccelli, Michele V.) Length scales for the Navier-Stokes equations on a rotating sphere. (English summary) **2005g:76027**
Langlais, Michel *see* **Fitzgibbon, William E. et al., 2005h:35191**
Laurent-Polz, F. Point vortices on a rotating sphere. (English summary) **2005m:76042**
Le Roux, Alain-Yves (*with* LeRoux, Marie-Noëlle; Marti, Jean-André) Un modèle mathématique de cyclone. (English and French summaries) [A mathematical model for hurricanes] **2005h:76085**
LeRoux, Marie-Noëlle *see* **Le Roux, Alain-Yves et al., 2005h:76085**
Li, Jian Ping[4] *see* **Feng, Guolin et al.**
Lin, Wan Tao (*with* Mo, Jia Qi) Asymptotic behavior of perturbed solution for simple coupled ocean-atmosphere model for ENSO. (English summary)
— *see also* **Mo, Jia Qi et al.**
Liu, Shi-Da *see* **Fu, Zun-Tao et al.**
Liu, Shi-Kuo *see* **Fu, Zun-Tao et al.** *and* **Chen, Zhe[2] et al.**
Lundström, Niklas Bifurcations and strange attractors in a climate related system. (English summary) **2005m:37209**

Majda, Andrew J. *see* **Cai, David et al., 2005f:37187** *and* **Biello, Joseph A., 2005m:76043**
Marti, Jean-André *see* **Le Roux, Alain-Yves et al., 2005h:76085**
Matkowski, Janusz *see* **Kahlig, Peter, 2005f:39067**
McIntyre, M. E. Wind-generated water waves: two overlooked mechanisms? (English summary) **2005a:86008**
Mehrabi, M. H. *see* **Emamizadeh, B. et al.**
Mi, Jianchun *see* **Shtern, Vladimir, 2005f:76036**
Mo, Jia Qi (*with* Lin, Wan Tao; Zhu, Jiang[3]) The perturbed solution of sea-air oscillator for ENSO model. (English summary)
— *see also* **Lin, Wan Tao**
Morgan, Jeffrey J. *see* **Fitzgibbon, William E. et al., 2005h:35191**
Muñoz Grajales, Juan Carlos (*with* Nachbin, André) Dispersive wave attenuation due to orographic forcing. (English summary) **2005d:76007**
Muraki, David J. *see* **Plougonven, Riwal et al., 2005m:76092**
Nachbin, André *see* **Muñoz Grajales, Juan Carlos, 2005d:76007**
Nath, G. Baikunth *see* **Kumari, Mahesh**
Nichols, N. K. *see* **Johnson, Christine et al., 2005i:86018**
Pavel′ev, A. G. Vector diffraction integrals for solving inverse problems of the radio-holographic sounding of the Earth's surface and atmosphere. (Russian. English and Russian summaries) **2005h:86023**
Perekhrest, V. Ī. A new class of solutions of the Euler hydrodynamic equations for axisymmetric vortex flows. (Ukrainian. English summary) **2005g:76018**
Pérez-García, Ismael *see* **Skiba, Yuri N., 2005j:76043**
Petcu, Madalina Gevrey class regularity for the primitive equations in space dimension 2. (English summary) **2005g:35248**
Pinsky, Mark B. (*with* Shapiro, Michael; Khain, Alexander; Wirzberger, Hod) A statistical model of strains in homogeneous and isotropic turbulence. (English summary) **2005b:76076**
Plougonven, Riwal (*with* Muraki, David J.; Snyder, Christopher Martin) A baroclinic instability that couples balanced motions and gravity waves. (English summary) **2005m:76092**
Porter, R. M. *see* **Gorostiza, Luis G. et al., 2005c:76085**
Prants, S. *see* **Budyansky, M. et al., 2005e:76049**
Raugel, Geneviève *see* **Chueshov, Igor D. et al., 2005h:35268**
Reich, Sebastian *see* **Cotter, Colin John, 2005g:37119**
Rekalo, Andrey M. *see* **Chueshov, Igor D. et al., 2005h:35268**
Ripodas, Pilar *see* **Bonaventura, Luca et al., 2005j:86001**
Robberto, M. *see* **Bertero, M. et al., 2005d:39096**
Rodrigues, E. R. *see* **Gorostiza, Luis G. et al., 2005c:76085**
Rottman, James W. *see* **Broutman, Dave et al., 2005a:76027**
Rousset, Frédéric Stability of large Ekman boundary layers in rotating fluids. (English summary) **2005c:76050**
Sajjadi, S. G. (*with* Bettencourt, M. T.) An improved parameterization for energy exchange from wind to Stokes waves. (English summary) **2005a:86009**
Seinfeld, John H. *see* **Amundson, Neal R. et al., 2005k:90232**
Semenov, E. S. *see* **Dobrokhotov, S. Yu. et al., 2005c:37119**
Shananin, A. A. *see* **Gaeva, Z. S., 2005m:86001**
Shapiro, Michael *see* **Pinsky, Mark B. et al., 2005b:76076**
Shtern, Vladimir (*with* Mi, Jianchun) Hysteresis and precession of a swirling jet normal to a wall. (English summary) **2005f:76036**
Skiba, Yuri N. (*with* Pérez-García, Ismael) On the structure and growth rate of unstable modes to the Rossby-Haurwitz wave. (English summary) **2005j:76043**
Snyder, Christopher Martin *see* **Plougonven, Riwal et al., 2005m:76092**
Sokolovskiĭ, M. A. (*with* Verron, J.) Dynamics of three vortices in a two-layer rotating fluid. (English summary) **2005j:76022**
Sonmor, L. J. *see* **Yau, K.-H. et al., 2005b:76062**
Tabak, Esteban G. *see* **Jacobson, Tivon E., 2005f:76015**
Temam, Roger Some mathematical aspects of geophysical fluid dynamic equations. (English summary) **2005j:76093**
— (*with* Ziane, Mohammed) Some mathematical problems in geophysical fluid dynamics. (English summary) **2005h:35275**
Ter-Krikorov, A. M. Internal waves in the middle layer of a three-layer atmosphere from sources located in the lower layer. (Russian. Russian summary) **2005c:76025**
Tirozzi, Brunello *see* **Dobrokhotov, S. Yu. et al., 2005c:37119**
Tolstykh, M. A. (*with* Frolov, A. V.) Some current problems in numerical weather prediction. (Russian) **2005m:86002**
Uleĭskiĭ, M. Yu. *see* **Budyansky, M. et al., 2005e:76049**
Verron, J. *see* **Sokolovskiĭ, M. A., 2005j:76022**
Vilenski, Gregory Germanovich (*with* Johnson, Edward R.) Near-critical free-surface rotating flow over topography. (English summary) **2005f:76107**
Whitcher, Brandon (*with* Craigmile, Peter F.) Multivariate spectral analysis using Hilbert wavelet pairs. (English summary)
Wirosoetisno, D. Exponentially accurate balance dynamics. (English summary) **2005f:34158**
Wirzberger, Hod *see* **Pinsky, Mark B. et al., 2005b:76076**
Wu, Jiahong The two-dimensional quasi-geostrophic equation with critical or supercritical dissipation. (English summary) **2005h:35288**
Yau, K.-H. (*with* Klaassen, G. P.; Sonmor, L. J.) Principal instabilities of large amplitude inertio-gravity waves. (English summary) **2005b:76062**
Yoo, Kee-Youn *see* **Amundson, Neal R. et al., 2005k:90232**
Zheng, Lie The discrete coagulation equations with an elastic collision. (English and Chinese summaries)
Zhu, Jiang[3] *see* **Mo, Jia Qi et al.**
Ziane, Mohammed *see* **Temam, Roger, 2005h:35275**

86A15 Seismology

Baev, A. V. (*with* Kutsenko, N. V.) Solving the inverse generalized problem of vertical seismic profiling. (English summary) **2005d:86009**
Barucq, Héléne *see* **Prat, Frank et al., (2005b:00020)**
Chichinina, T. I. (*with* Sabinin, Vladimir; Ronquillo Jarillo, Gerardo) Numerical modeling of P-wave AVOA in media containing vertical fractures. (English summary) **2005c:86004**
Duquet, Bertrand *see* **Prat, Frank et al., (2005b:00020)**
de Franco, Roberto *see* **Tondi, Rosaria, 2005m:86020**
Geller, Robert J. (*with* Takeuchi, Nozomu; Mizutani, Hiromitsu; Hirabayashi, Nobuyasu) Methods for computing synthetic seismograms and estimating their computational error. (English summary) **2005c:86005**
Hirabayashi, Nobuyasu *see* **Geller, Robert J. et al., 2005c:86005**
Kutsenko, N. V. *see* **Baev, A. V., 2005d:86009**
Ma, Zaitian *see* **Wang, Huazhong et al.**
Matson, Kenneth H. *see* **Nita, Bogdan G. et al., 2005k:86017**
Mikhailenko, B. G. (*with* Mikhaĭlov, A. A.; Reshetova, Galina) Seismic wavefield modeling for laterally heterogeneous whole earth models. **2005j:86016**
— (*with* Mikhaĭlov, A. A.; Reshetova, Galina) Spectral Laguerre method for viscoelastic seismic modeling. (English summary) **2005c:86006**
Mikhaĭlov, A. A. *see* **Mikhailenko, B. G. et al., 2005c:86006** *and* **2005j:86016**
Mizutani, Hiromitsu *see* **Geller, Robert J. et al., 2005c:86005**
Molotkov, L. A. On the propagation of seismic waves in block fluid media. (Russian. English and Russian summaries) **2005h:86021**
— Propagation of seismic waves in block elastic-fluid media. III. (Russian. English and Russian summaries) **2005i:86015**
Nita, Bogdan G. (*with* Matson, Kenneth H.; Weglein, Arthur B.) Forward scattering series and seismic events: far field approximations, critical and postcritical events. (English summary) **2005k:86017**
Prat, Frank (*with* Barucq, Héléne; Duquet, Bertrand) Seismic wave modeling with the generalized screen propagator. (*see* **2005b:00020**)
Reshetova, Galina *see* **Mikhailenko, B. G. et al., 2005c:86006** *and* **2005j:86016**
Ronquillo Jarillo, Gerardo *see* **Chichinina, T. I. et al., 2005c:86004**
Sabinin, Vladimir *see* **Chichinina, T. I. et al., 2005c:86004**
Takeuchi, Nozomu *see* **Geller, Robert J. et al., 2005c:86005**
Tondi, Rosaria (*with* de Franco, Roberto) Seismic travel time inversion for 3D structures regularized with Sobolev norms. (English summary) **2005m:86020**
Wang, Huazhong (*with* Zhang, Libin; Ma, Zaitian) Seismic wave imaging in visco-acoustic media. (English summary)
Weglein, Arthur B. *see* **Nita, Bogdan G. et al., 2005k:86017**
Zhang, Libin *see* **Wang, Huazhong et al.**

Items with secondary classifications in 86A15

Abd-Alla, A. M. (*with* Hammad, H. A. H.; Abo-Dahab, S. M.) Rayleigh waves in a magnetoelastic half-space of orthotropic material under influences of initial stress and gravity field. (English summary) **2005j:74029**
Abo-Dahab, S. M. *see* **Abd-Alla, A. M. et al., 2005j:74029**
Agayan, S. M. *see* **Gvishiani, A. D. et al., 2005h:62168**
Alekseev, A. S. (*with* Tsetsokho, V. A.; Belonosov, A. S.) Some algorithms for solving direct problems for equations of vibroseismics and geodesy. (English summary) **2005j:86020**
— (*with* Belonosova, A. V.; Belonosov, A. S.; Tsetsokho, V. A.) Some algorithms for solving 3D inverse kinematic problems of seismics. **2005h:86022**
Badea, Lori (*with* Ionescu, Ioan R.; Wolf, Sylvie) Domain decomposition method for dynamic faulting under slip-dependent friction. (English summary) **2005f:74056**
Bardakov, R. N. *see* **Chashechkin, Yu. D.**
Bécache, Eliane (*with* Ezziani, Abdelaâziz; Joly, Patrick) A mixed finite element approach for viscoelastic wave propagation. (English summary) **2005k:74073**
Belonosov, A. S. *see* **Alekseev, A. S. et al., 2005h:86022** *and* **2005j:86020**
Belonosova, A. V. *see* **Alekseev, A. S. et al., 2005h:86022**
Bleistein, Norman *see* **Zhang, Yu[4] et al., 2005g:35192**
Bogoutdinov, Sh. R. *see* **Gvishiani, A. D. et al., 2005h:62168**
Bonnin, Zh. *see* **Gvishiani, A. D. et al., 2005h:62168**
Boukhgueim, Alexander A. Modern techniques in seismic tomography. (English summary) **2005j:86018**
Burmin, V. Yu. Velocities of seismic waves in the Earth's core. (Russian. Russian summary)
Chashechkin, Yu. D. (*with* Bardakov, R. N.) Two-dimensional attached internal waves and the accompanying boundary layers. (Russian)
Chaux, Caroline *see* **Duval, Laurent, 2005h:42069**
Chen, Jing-Bo Multisymplectic geometry for the seismic wave equation. (English summary)
Chichinina, T. I. *see* **Sabinin, Vladimir et al., (2005b:00020)**
Duval, Laurent (*with* Chaux, Caroline) Lapped transforms and hidden Markov models for seismic data filtering. (English summary) **2005h:42069**
Elfouhaily, Tanos Mikhael (*with* Guérin, Charles-Antoine) A critical survey of approximate scattering wave theories from random rough surfaces. (English summary) **2005d:35190**
Ezziani, Abdelaâziz *see* **Bécache, Eliane et al., 2005k:74073**
Faraklioti, Maria (*with* Petrou, Maria) The use of structure tensors in the analysis of seismic data. (English summary) (*see* **2005i:76002**)
Granat, Robert A. A method of hidden Markov model optimization for use with geophysical data sets. (English summary) **2005g:86002**
Guérin, Charles-Antoine *see* **Elfouhaily, Tanos Mikhael, 2005d:35190**
Gvishiani, A. D. (*with* Agayan, S. M.; Bogoutdinov, Sh. R.; Ledenev, A. V.; Zlotniki, Zh.; Bonnin, Zh.) Mathematical methods of geoinformatics. II. Fuzzy-logic algorithms in problems of identifying anomalies in time series. (Russian. English and Ukrainian summaries) **2005h:62168**
Hammad, H. A. H. *see* **Abd-Alla, A. M. et al., 2005j:74029**
de Hoop, Maarten V. Microlocal analysis of seismic inverse scattering. (English summary) **2005f:86008**
— The downward continuation approach to modeling and inverse scattering of seismic data in the Kirchhoff approximation. (English summary) **2005g:86021**
Ingel′, L. Kh. Dynamics of acoustic disturbances in intense atmospheric vortices. (Russian. Russian summary) **2005a:86021**
Ionescu, Ioan R. *see* **Badea, Lori et al., 2005f:74056**
Joly, Patrick *see* **Bécache, Eliane et al., 2005k:74073**

Karchevskiĭ, A. L. Numerical reconstruction of medium parameters of the member of thin anisotropic layers. (English summary) **2005g:74071**
Kholshevnikov, Konstantin V. (*with* Kurdubov, Sergei L.) Errata: "Convergence of Liapunov series for Huygens-Roche figures" [Celestial Mech. Dynam. Astronom. **89** (2004), no. 1, 83–96; MR2063968 (2005a:70013)]. **Krauklis, A. P.** *see* **Krauklis, Pavel Vladimirovich, 2005g:74068**
Krauklis, Pavel Vladimirovich (*with* Krauklis, A. P.) The weak boundary effect in a field as a source approaches the boundary. (Russian. English and Russian summaries) **2005g:74068**
Kurdubov, Sergei L. *see* **Kholshevnikov, Konstantin V.**
Ledenev, A. V. *see* **Gvishiani, A. D. et al., 2005h:62168**
Leite, Lourenildo W. B. *see* **Rocha, Marcus P. C., 2005a:93153**
Leung, Shingyu (*with* Qian, Jianliang; Osher, Stanley) A level set method for three-dimensional paraxial geometrical optics with multiple point sources. (English summary) **2005h:76074**
— *see also* **Qian, Jianliang, 2005a:74053**
Mal′kovskiĭ, V. I. (*with* Pèk, A. A.) Conditions for the onset of thermal convection of a single-phase fluid in a vertical open fault. (Russian. Russian summary)
(Nodera, Takashi) *see* **Mathematics of destructive phenomena**
Osher, Stanley *see* **Leung, Shingyu et al., 2005h:76074**
Pèk, A. A. *see* **Mal′kovskiĭ, V. I.**
Petrou, Maria *see* **Faraklioti, Maria, (2005i:76002)**
Qian, Jianliang (*with* Leung, Shingyu) A level set based Eulerian method for paraxial multivalued traveltimes. (English summary) **2005a:74053**
— *see also* **Leung, Shingyu et al., 2005h:76074**
Randen, Trygve *see* **Richardsen, Stine Kjersti, (2005i:76002)**
Richardsen, Stine Kjersti (*with* Randen, Trygve) Mapping 3D geo-bodies based on level set and marching methods. (English summary) (*see* **2005i:76002**)
Rocha, Marcus P. C. (*with* Leite, Lourenildo W. B.) Treatment of geophysical data as a non-stationary process. (English summary) **2005a:93153**
Ronquillo Jarillo, Gerardo *see* **Sabinin, Vladimir et al., (2005b:00020)**
Sabinin, Vladimir (*with* Chichinina, T. I.; Ronquillo Jarillo, Gerardo) Numerical model of seismic wave propagation in viscoelastic media. (*see* **2005b:00020**)
Shurygin, A. M. *see* **Strigunova, M. S.**
Starodub, George (*with* Starodub, Halyna) Stress evolution processes in the faults. (*see* **2005m:00008**)
Starodub, Halyna *see* **Starodub, George, (2005m:00008)**
Stolk, Christiaan C. Microlocal analysis and seismic imaging. (English summary) **2005j:35003**
Strigunova, M. S. (*with* Shurygin, A. M.) Scalar multiplication of matrices with a sliding window, and earthquake prediction. (Russian. Russian summary)
(Tani, Atusi) *see* **Mathematics of destructive phenomena**
Tsetsokho, V. A. *see* **Alekseev, A. S. et al., 2005h:86022** *and* **2005j:86020**
Wolf, Sylvie *see* **Badea, Lori et al., 2005f:74056**
Zhang, Guan Quan *see* **Zhang, Yu[4] et al., 2005g:35192**
Zhang, Yu[4] (*with* Zhang, Guan Quan; Bleistein, Norman) True amplitude wave equation migration arising from true amplitude one-way wave equations. (English summary) **2005g:35192**
Zlotniki, Zh. *see* **Gvishiani, A. D. et al., 2005h:62168**

Items listed otherwise than by author

Mathematics of destructive phenomena ★ Hakai genshō no sūri. [Mathematics of destructive phenomena]
Yokohama ★ Hakai genshō no sūri. [Mathematics of destructive phenomena]

86A17 Global dynamics, earthquake problems

Brodsky, Emily E. *see* **Kanamori, Hiroo, 2005b:86037**
Burmin, V. Yu. Velocities of seismic waves in the Earth's core. (Russian. Russian summary)
Deshwal, Manju *see* **Singh, Jagdish**
Dineva, P. S. (*with* Rangelov, Tsvyatko V.; Manolis, G. D.) Transient wave motion in a cracked, multi-layered geological region by the BEM. (English summary) (*see* **2005d:65006**)
Donnellan, Andrea *see* **Rundle, John B. et al., (2005g:00014)**
Dyskin, Arcady V. Mechanical properties of the Earth's crust with self-similar distribution of faults. (English summary) (*see* **2005g:00014**)
Fox, Geoffrey Charles *see* **Rundle, John B. et al., (2005g:00014)**
Kanamori, Hiroo (*with* Brodsky, Emily E.) The physics of earthquakes. (English summary) **2005b:86037**
Klein, William *see* **Rundle, John B. et al., (2005g:00014)**
Kunets′, Ya. Ĭ. (*with* Matus, V. V.; Porokhovs′kiĭ, V. V.) Investigation of the echo signals of SH-waves from thin-walled elastic rigidly supported inclusions. (Ukrainian. English, Russian and Ukrainian summaries) **2005b:86038**
Manolis, G. D. *see* **Dineva, P. S. et al., (2005d:65006)**
Matus, V. V. *see* **Kunets′, Ya. Ĭ. et al., 2005b:86038**
Porokhovs′kiĭ, V. V. *see* **Kunets′, Ya. Ĭ. et al., 2005b:86038**
Rangelov, Tsvyatko V. *see* **Dineva, P. S. et al., (2005d:65006)**
Rundle, John B. (*with* Klein, William; Tiampo, Kristy; Donnellan, Andrea; Fox, Geoffrey Charles) Strategies for the detection and analysis of space-time patterns of earthquakes on complex fault systems. (English summary) (*see* **2005g:00014**)
Singh, Jagdish (*with* Deshwal, Manju) Rayleigh wave scattring due to impedance in the surface of a shallow ocean. (English summary)
Starodub, George (*with* Starodub, Halyna) Stress evolution processes in the faults. (*see* **2005m:00008**)
Starodub, Halyna *see* **Starodub, George, (2005m:00008)**
Tiampo, Kristy *see* **Rundle, John B. et al., (2005g:00014)**
Tyupkin, Yu. S. A potential earthquake source: a generalization to the case of a theory with spatial derivatives. (Russian. Russian summary)

Items with secondary classifications in 86A17

Agalovyan, L. A. (*with* Asratyan, M. G.; Gevorkyan, R. S.) On a nonclassical mixed boundary value problem in the theory of elasticity for an anisotropic strip of variable width. (Russian. Russian and Armenian summaries) **2005m:74033**
Asratyan, M. G. *see* **Agalovyan, L. A. et al., 2005m:74033**
Badea, Lori (*with* Ionescu, Ioan R.; Wolf, Sylvie) Domain decomposition method for dynamic faulting under slip-dependent friction. (English summary) **2005f:74056**
Dascalu, Cristian (*with* Ionescu, Ioan R.) Slip-weakening friction instabilities: eigenvalue analysis. (English summary) **2005i:35201**
Dyskin, Arcady V. *see* **Pasternak, Elena et al., (2005g:00014)**
Gevorkyan, R. S. *see* **Agalovyan, L. A. et al., 2005m:74033**
Ionescu, Ioan R. (*with* Wolf, Sylvie) Interaction of faults under slip-dependent friction. Non-linear eigenvalue analysis. (English summary) **2005h:74046**
— *see also* **Badea, Lori et al., 2005f:74056** *and* **Dascalu, Cristian, 2005i:35201**
Mora, Peter (*with* Weatherley, Dion) A 2D numerical model for simulating the physics of fault systems. (English summary) (*see* **2005g:00014**)
Mühlhaus, H.-B. *see* **Pasternak, Elena et al., (2005g:00014)**
Pasternak, Elena (*with* Mühlhaus, H.-B.; Dyskin, Arcady V.) Apparent strain localization and shear wave disperion in elastic fault gouge with microrotations. (English summary) (*see* **2005g:00014**)
Tkacheva, L. A. The behavior of a floating elastic plate under vibrations of a bottom segment. (Russian. Russian summary) **2005j:74026**
Weatherley, Dion *see* **Mora, Peter, (2005g:00014)**
Wolf, Sylvie *see* **Badea, Lori et al., 2005f:74056** *and* **Ionescu, Ioan R., 2005h:74046**

86A20 Potentials, prospecting

Fominykh, V. V. *see* **Lavrovskiĭ, È. K., 2005g:86019**
Freeden, W. (*with* Mayer, Carsten; Schreiner, M.) Tree algorithms in wavelet approximations by Helmholtz potential operators. (English summary) **2005i:86016**
García-Pelayo, Ricardo Distribution of distance in the spheroid. (English summary) **2005m:86021**
Gerasimov, I. A. *see* **Krizskiĭ, V. N. et al.**
Ivanov, Valentin Timofeevich *see* **Krizskiĭ, V. N. et al.**
Krizskiĭ, V. N. (*with* Ivanov, Valentin Timofeevich; Gerasimov, I. A.; Viktorov, S. V.) Determination of the boundary of a body of revolution in horizontally layered media by geoelectrical prospecting method. (Russian. Russian summary)
Lavrovskiĭ, È. K. (*with* Fominykh, V. V.) Equilibrium shapes of lenses taking the actual gravitational field of the Earth into account. (Russian. Russian summary) **2005g:86019**
Mayer, Carsten *see* **Freeden, W. et al., 2005i:86016**
Rashid, Abdur The pseudospectral method for thermotropic primitive equation and its error estimation. (English summary) **2005i:86017**
Samokhvalov, Konstantin *see* **Valeev, Sultan, (2005c:00015)**
Schreiner, M. *see* **Freeden, W. et al., 2005i:86016**
Strakhov, V. N. On a generalization of the method of linear integral equations, which is of principal importance in gravimetry and magnetometry. Bifurcation of solutions obtained by variational and structural parametric methods. (Russian) **2005k:86018**
Valeev, Sultan (*with* Samokhvalov, Konstantin) The ARM-approach based local modelling of the gravitational field. (English summary) (*see* **2005c:00015**)
Viktorov, S. V. *see* **Krizskiĭ, V. N. et al.**

Items with secondary classifications in 86A20

Berdichevskiĭ, M. N. (*with* Dmitriev, Vladimir Ivanovich) Inverse problems of magnetic prospecting in a modern formulation. (Russian. Russian summary) **2005d:86010**
Dmitriev, Vladimir Ivanovich *see* **Berdichevskiĭ, M. N., 2005d:86010**
Freeden, W. (*with* Michel, Volker) Orthogonal zonal, tesseral and sectorial wavelets on the sphere for the analysis of satellite data. (English summary) **2005d:65251**
Michel, Volker *see* **Freeden, W., 2005d:65251**
Peresvetov, V. V. (*with* Smagin, S. I.) Three-dimensional electromagnetic fields in two-dimensional nonhomogeneous media. (Russian. English and Russian summaries) **2005g:78011**
Smagin, S. I. *see* **Peresvetov, V. V., 2005g:78011**

86A22 Inverse problems [see also 35R30]

Agoshkov, V. I. Inverse problems of the mathematical theory of tides: boundary-function problem. (English summary) **2005j:86017**
Alekseev, A. S. (*with* Belonosova, A. V.; Belonosov, A. S.; Tsetsokho, V. A.) Some algorithms for solving 3D inverse kinematic problems of seismics. **2005h:86022**
Avdeev, A. V. (*with* Goriounov, E. V.; Lavrent′ev, M. M., Jr.; Spigler, Renato) Validating the diffusion model for long-term coastal profile evolution. (English summary) **2005g:86020**
Belonosov, A. S. *see* **Alekseev, A. S. et al., 2005h:86022**
Belonosova, A. V. *see* **Alekseev, A. S. et al., 2005h:86022**
Boukhgueim, Alexander A. Modern techniques in seismic tomography. (English summary) **2005j:86018**
Goriounov, E. V. *see* **Avdeev, A. V. et al., 2005g:86020**
Han, Wei *see* **Huang, Si Xun, 2005e:86008**
de Hoop, Maarten V. Microlocal analysis of seismic inverse scattering. (English summary) **2005f:86008**
— The downward continuation approach to modeling and inverse scattering of seismic data in the Kirchhoff approximation. (English summary) **2005g:86021**
Hoskins, B. J. *see* **Johnson, Christine et al., 2005i:86018**
Huang, Si Xun (*with* Han, Wei) Application of techniques in inverse problems to variational data assimilation in meteorology and oceanography. (English summary) **2005e:86008**
Jiang, Mao Ze *see* **Zhi, Yuan Hong**
Johnson, Christine (*with* Nichols, N. K.; Hoskins, B. J.) Very large inverse problems in atmosphere and ocean modelling. (English summary) **2005i:86018**
Lavrent′ev, M. M., Jr. *see* **Avdeev, A. V. et al., 2005g:86020**

Nichols, N. K. *see* **Johnson, Christine et al., 2005i:86018**
Pavel'ev, A. G. Vector diffraction integrals for solving inverse problems of the radio-holographic sounding of the Earth's surface and atmosphere. (Russian. English and Russian summaries) **2005h:86023**
Spigler, Renato *see* **Avdeev, A. V. et al., 2005g:86020**
Tsetsokho, V. A. *see* **Alekseev, A. S. et al., 2005h:86022**
Zhi, Yuan Hong (*with* Jiang, Mao Ze) Existence and uniqueness of the solution to an inverse permeability problem. (Chinese. English and Chinese summaries)

Items with secondary classifications in 86A22

Ascher, U. M. (*with* Haber, Eldad) A multigrid method for distributed parameter estimation problems. (English summary) **2005a:65148**
Baev, A. V. (*with* Kutsenko, N. V.) Solving the inverse generalized problem of vertical seismic profiling. (English summary) **2005d:86009**
Bagtzoglou, Amvrossios C. (*with* Baun, Sandrine A.) Near real-time atmospheric contamination source identification by an optimization-based inverse method. (English summary)
Banks, H. T. (*with* Gibson, Nathan L.; Winfree, William P.) Gap detection with electromagnetic terahertz signals. (English summary) **2005m:78012**
Baun, Sandrine A. *see* **Bagtzoglou, Amvrossios C.**
Berdichevskiĭ, M. N. (*with* Dmitriev, Vladimir Ivanovich) Inverse problems of magnetic prospecting in a modern formulation. (Russian. Russian summary) **2005d:86010**
Cristofol, Michel (*with* Gaitan, Patricia) Inverse problem for a perturbed stratified strip in two dimensions. (English summary) **2005a:35277**
Derevtsov, E. Yu. (*with* Louis, A. K.; Schuster, Thomas) Two approaches to the problem of defect correction in vector field tomography solving boundary value problems. (English summary) **2005j:65177**
Dmitriev, Vladimir Ivanovich *see* **Berdichevskiĭ, M. N., 2005d:86010**
Gaitan, Patricia *see* **Cristofol, Michel, 2005a:35277**
Gibson, Nathan L. *see* **Banks, H. T. et al., 2005m:78012**
Gvozdev, V. V. *see* **Kobelkov, G. M., 2005e:86002**
Haber, Eldad *see* **Ascher, U. M., 2005a:65148**
Imomnazarov, Kh. Kh. (*with* Zhapbasbay, B. M.) Optimization method to solve the inverse problem of electrokinetics for vertically inhomogeneous media. (English summary) **2005h:86025**
Karchevskiĭ, A. L. Numerical reconstruction of medium parameters of the member of thin anisotropic layers. (English summary) **2005g:74071**
Knowles, Ian W. (*with* Yan, Aimin) On the recovery of transport parameters in groundwater modelling. (English summary) **2005b:35296**
Kobelkov, G. M. (*with* Gvozdev, V. V.) Numerical solution of the ocean data assimilation problem. (English summary) **2005e:86002**
Kutsenko, N. V. *see* **Baev, A. V., 2005d:86009**
Leite, Lourenildo W. B. *see* **Rocha, Marcus P. C., 2005a:93153**
Louis, A. K. *see* **Derevtsov, E. Yu. et al., 2005j:65177**
Nicaise, Serge (*with* Zaïr, Ouahiba) Identifiability, stability and reconstruction results of sources by interior measurements. (English summary) **2005b:35300**
Rocha, Marcus P. C. (*with* Leite, Lourenildo W. B.) Treatment of geophysical data as a non-stationary process. (English summary) **2005a:93153**
Schuster, Thomas *see* **Derevtsov, E. Yu. et al., 2005j:65177**
Tolstaya, Ekaterina *see* **Zhdanov, M. S., 2005d:86011**
Uhlmann, Gunther The inverse kinematic problem in anisotropic media. (English summary) 2005c:53097
Winfree, William P. *see* **Banks, H. T. et al., 2005m:78012**
Yan, Aimin *see* **Knowles, Ian W., 2005b:35296**
Zaïr, Ouahiba *see* **Nicaise, Serge, 2005b:35300**
Zhapbasbay, B. M. *see* **Imomnazarov, Kh. Kh., 2005h:86025**
Zhdanov, M. S. (*with* Tolstaya, Ekaterina) Minimum support nonlinear parametrization in the solution of a 3D magnetotelluric inverse problem. (English summary) **2005d:86011**

86A25 Geo-electricity and geomagnetism [see also 76W05, 78A25]

Alberto, P. V. (*with* Oliveira, Orlando; Pais, M. A.; Guedes, R., Jr.) The non-uniqueness of external vector fields determined from their magnitude on a spherical surface—application to the geomagnetic field. (English summary) **2005j:86019**
Berdichevskiĭ, M. N. (*with* Dmitriev, Vladimir Ivanovich) Inverse problems of magnetic prospecting in a modern formulation. (Russian. Russian summary) **2005d:86010**
Braginsky, Stanislav (*with* Roberts, Paul H.) On the theory of convection in the Earth's core. **2005g:86022**
Desjardins, Benoît (*with* Dormy, Emmanuel; Grenier, Emmanuel) Boundary layer instability at the top of the Earth's outer core. (English summary) **2005b:86039**
Dmitriev, Vladimir Ivanovich *see* **Berdichevskiĭ, M. N., 2005d:86010**
Donald, John T. (*with* Roberts, Paul H.) The effect of anisotropic heat transport in the Earth's core on the geodynamo. (English summary) **2005h:86024**
Dormy, Emmanuel *see* **Desjardins, Benoît et al., 2005b:86039**
Duistermaat, J. J. A mathematical model for geomagnetic reversals. **2005k:86019**
— *see also* **Hoyng, Peter, 2005f:86009**
Fearn, David R. (*with* Rahman, Md. Mansur) Evolution of non-linear α^2-dynamos and Taylor's constraint. (English summary) **2005g:86023**
Grenier, Emmanuel *see* **Desjardins, Benoît et al., 2005b:86039**
Gubbins, David *see* **Willis, Ashley P., 2005g:86024**
Guedes, R., Jr. *see* **Alberto, P. V. et al., 2005j:86019**
Horton, Claude Wendell, Jr. *see* **Wong, H. Vernon et al., 2005m:86022**
Hoyng, Peter (*with* Duistermaat, J. J.) Geomagnetic reversals and the stochastic exit problem. (English summary) **2005f:86009**
Imomnazarov, Kh. Kh. (*with* Zhapbasbay, B. M.) Optimization method to solve the inverse problem of electrokinetics for vertically inhomogeneous media. (English summary) **2005h:86025**
Ishihara, Norio (*with* Kida, Shigeo) Excitation of polar thermal convection in a rotating spherical shell. (English summary)
Jackson, Andrew *see* **Livermore, Philip W., 2005b:86040**
Kida, Shigeo *see* **Ishihara, Norio**
Livermore, Philip W. (*with* Jackson, Andrew) On magnetic energy instability in spherical stationary flows. (English summary) **2005b:86040**
Matsui, Hiroaki (*with* Okuda, Hiroshi) Development of a simulation code for MHD dynamo processes using the GeoFEM platform. (English summary)
Okuda, Hiroshi *see* **Matsui, Hiroaki**
Oliveira, Orlando *see* **Alberto, P. V. et al., 2005j:86019**
Pais, M. A. *see* **Alberto, P. V. et al., 2005j:86019**
Pratt, Jane *see* **Wong, H. Vernon et al., 2005m:86022**
Rahman, Md. Mansur *see* **Fearn, David R., 2005g:86023**
Roberts, Paul H. *see* **Braginsky, Stanislav, 2005g:86022** *and* **Donald, John T., 2005h:86024**
Tolstaya, Ekaterina *see* **Zhdanov, M. S., 2005d:86011**
Van Dam, J. W. *see* **Wong, H. Vernon et al., 2005m:86022**
Willis, Ashley P. (*with* Gubbins, David) Kinematic dynamo action in a sphere: effects of periodic time-dependent flows on solutions with axial dipole symmetry. (English summary) **2005g:86024**
Wong, H. Vernon (*with* Xu, Baiyu; Horton, Claude Wendell, Jr.; Pratt, Jane; Van Dam, J. W.) Nonlinear evolution of the firehose instability in a magnetic dipole geotail geometry. (English summary) **2005m:86022**
Xu, Baiyu *see* **Wong, H. Vernon et al., 2005m:86022**
Yudin, M. N. (*with* Yudin, V. M.) On the decomposition of direct geo-electric problems, based on the Schwarz method. (Russian. Russian summary) **2005b:86041**
Yudin, V. M. *see* **Yudin, M. N., 2005b:86041**
Zhapbasbay, B. M. *see* **Imomnazarov, Kh. Kh., 2005h:86025**
Zhdanov, M. S. (*with* Tolstaya, Ekaterina) Minimum support nonlinear parametrization in the solution of a 3D magnetotelluric inverse problem. (English summary) **2005d:86011**

Items with secondary classifications in 86A25

Abo Seliem, Adel A. S. Evaluation of the transient electromagnetic field in evaporation duct. (English summary) **2005i:78006**
Chulliat, Arnaud (*with* Loper, David E.; Shimizu, Hisayoshi) Buoyancy-driven perturbations in a rapidly rotating, electrically conducting fluid. III. Effect of the Lorentz force. (English summary) **2005g:76128**
Dormy, Emmanuel *see* **Morin, V., 2005a:76076**
(Ferriz-Mas, Antonio) *see* **Advances in nonlinear dynamos, 2005b:76004**
Hoyng, Peter The field, the mean and the meaning. **2005f:76112**
Kaiser, Ralf (*with* Neudert, Michael) A non-standard boundary value problem related to geomagnetism. (English summary) **2005h:35335**
Loper, David E. *see* **Chulliat, Arnaud et al., 2005g:76128**
Matsui, Hiroaki (*with* Okuda, Hiroshi) MHD dynamo simulation using the GeoFEM platform—verification by the dynamo benchmark test. (English summary)
Morin, V. (*with* Dormy, Emmanuel) Time dependent β-convection in rapidly rotating spherical shells. (English summary) **2005a:76076**
Moroz, Irene M. The Malkus-Robbins dynamo with a nonlinear series motor. (English summary) **2005d:37176**
Neudert, Michael *see* **Kaiser, Ralf, 2005h:35335**
(Núñez Jiménez, Manuel) *see* **Advances in nonlinear dynamos, 2005b:76004**
Okuda, Hiroshi *see* **Matsui, Hiroaki**
Shimizu, Hisayoshi *see* **Chulliat, Arnaud et al., 2005g:76128**
Vanneste, J. (*with* Yavneh, Irad) Exponentially small inertia-gravity waves and the breakdown of quasigeostrophic balance. (English summary) **2005a:86025**
Yavneh, Irad *see* **Vanneste, J., 2005a:86025**

Items listed otherwise than by author

Advances in nonlinear dynamos ★ Advances in nonlinear dynamos. **2005b:76004**

86A30 Geodesy, mapping problems

Alekseev, A. S. (*with* Tsetsokho, V. A.; Belonosov, A. S.) Some algorithms for solving direct problems for equations of vibroseismics and geodesy. (English summary) **2005j:86020**
Alexander, James C. Loxodromes: a rhumb way to go.
Belonosov, A. S. *see* **Alekseev, A. S. et al., 2005j:86020**
Fuks, Iosif M. (*with* Godin, Oleg A.) Probability distributions of travel time and intensity of the earliest arrivals of a short pulse backscattered by a rough surface. (English summary) **2005e:86009**
Godin, Oleg A. *see* **Fuks, Iosif M., 2005e:86009**
Iri, Masao (*with* Shimakawa, Yoichi; Nagai, Tetsufumi) Extraction of invariants from digital elevation data with application to terrain topography. (English summary) **2005e:86010**
Keller, Wolfgang ★ Wavelets in geodesy and geodynamics. **2005b:86042**
Nagai, Tetsufumi *see* **Iri, Masao et al., 2005e:86010**
Shimakawa, Yoichi *see* **Iri, Masao et al., 2005e:86010**
Strakhov, V. N. On a generalization of the method of linear integral equations, which is of principal importance in gravimetry and magnetometry. Determination of high-accuracy approximations of solutions of a set of systems of linear algebraic equations with exact data in the right-hand sides. (Russian)
Tsetsokho, V. A. *see* **Alekseev, A. S. et al., 2005j:86020**

Items with secondary classifications in 86A30

Amharref, Mina *see* **Bernoussi, Abdes-Samed**
Aràndiga, Francesc *see* **Solé, Andreas F. et al.**
Bernoussi, Abdes-Samed (*with* Amharref, Mina) Étalabilité—vulnérabilité. (French summary) [Spreadability—vulnerability]
Bourchtein, Andrei (*with* Bourchtein, Ludmila; Oliveira, E. R.) General approach to conformal mappings used in atmospheric modeling. (English summary) **2005f:86002**
Bourchtein, Ludmila *see* **Bourchtein, Andrei et al., 2005f:86002**
Caselles, Vicent *see* **Solé, Andreas F. et al.**

Gubanov, V. S. ★ Обобщенный метод наименьших квадратов. (Russian. Russian summary) [The generalized method of least squares] **2005e:65010**
Oliveira, E. R. *see* **Bourchtein, Andrei et al., 2005f:86002**
Sapiro, Guillermo R. *see* **Solé, Andreas F. et al.**
Solé, Andreas F. (*with* Caselles, Vicent; Sapiro, Guillermo R.; Aràndiga, Francesc) Morse description and geometric encoding of digital elevation maps. (English summary)

86A32 Geostatistics

Amemiya, Yasuo *see* **Christensen, William F., 2005a:86027**
Chavent, Guy *see* **Schaaf, Thomas et al., 2005a:86028**
Christensen, Ole F. Monte Carlo maximum likelihood in model-based geostatistics. (English summary)
Christensen, William F. (*with* Amemiya, Yasuo) Generalized shifted-factor analysis method for multivariate geo-referenced data. (English summary) **2005a:86027**
Dimitrakopoulos, Roussos (*with* Luo, Xiaochun) Generalized sequential Gaussian simulation on group size v and screen-effect approximations for large field simulations. (English summary) **2005d:86012**
Dowd, Peter *see* **Pardo-Igúzquiza, Eulogio, 2005b:86043**
Lark, R. M. *see* **Marchant, B. P., 2005k:86020**
Luo, Xiaochun *see* **Dimitrakopoulos, Roussos, 2005d:86012**
Marchant, B. P. (*with* Lark, R. M.) Estimating variogram uncertainty. (English summary) **2005k:86020**
Mezghani, Mokhlès *see* **Schaaf, Thomas et al., 2005a:86028**
Miller, W. E. Erratum: "Revisiting the geometry of a ternary diagram with the half-taxi metric" [Math. Geol. **34** (2002), no. 3, 275–290; MR1953972 (2003m:86034)].
Pandalai, H. S. *see* **Subramanyam, A., 2005f:86010**
Pardo-Igúzquiza, Eulogio (*with* Dowd, Peter) Variance-covariance matrix of the experimental variogram: assessing variogram uncertainty. (English summary) **2005b:86043**
Rivoirard, Jacques On some simplifications of cokriging neighborhood. (English summary) **2005h:86026**
Schaaf, Thomas (*with* Chavent, Guy; Mezghani, Mokhlès) Refinement indicators for optimal selection of geostatistical realizations using the gradual deformation method. (English summary) **2005a:86028**
Subramanyam, A. (*with* Pandalai, H. S.) On the equivalence of the cokriging and kriging systems. (English summary) **2005f:86010**

Items with secondary classifications in 86A32

Guadagnini, Alberto *see* **Tartakovskiĭ, D. M., 2005i:74067**
Kanevski, Mikhail (*with* Maignan, Michel) ★ Analysis and modelling of spatial environmental data. **2005d:62005**
Kunze, Karsten (*with* Schaeben, Helmut) The Bingham distribution of quaternions and its spherical Radon transform in texture analysis. (English summary) **2005k:74018**
Maignan, Michel *see* **Kanevski, Mikhail, 2005d:62005**
Schaeben, Helmut *see* **Kunze, Karsten, 2005k:74018**
Tartakovskiĭ, D. M. (*with* Guadagnini, Alberto) Effective properties of random composites. (English summary) **2005i:74067**
— *see also* **Xiu, Dongbin, 2005h:74019**
Xiu, Dongbin (*with* Tartakovskiĭ, D. M.) A two-scale nonperturbative approach to uncertainty analysis of diffusion in random composites. (English summary) **2005h:74019**

86A40 Glaciology

Blatter, Heinz *see* **Picasso, Marco et al., 2005g:86026**
Cliffe, K. A. (*with* Morland, L. W.) Full and reduced model solutions of unsteady axisymmetric ice sheet flow over a flat bed. (English summary) **2005g:86025**
Funk, Martin[2] *see* **Picasso, Marco et al., 2005g:86026**
Morland, L. W. *see* **Cliffe, K. A., 2005g:86025**
Picasso, Marco (*with* Rappaz, Jacques; Reist, Adrian; Funk, Martin[2]; Blatter, Heinz) Numerical simulation of the motion of a two-dimensional glacier. (English summary) **2005g:86026**
Rappaz, Jacques *see* **Picasso, Marco et al., 2005g:86026**
Reist, Adrian *see* **Picasso, Marco et al., 2005g:86026**
Schoof, Christian The effect of cavitation on glacier sliding. (English summary) **2005i:86019**

Items with secondary classifications in 86A40

Anderson, Michael Lindsay *see* **Chow, Shue-Sum et al., 2005i:65184**
Carey, Graham F. *see* **Chow, Shue-Sum et al., 2005i:65184**
Chow, Shue-Sum (*with* Carey, Graham F.; Anderson, Michael Lindsay) Finite element approximations of a glaciology problem. (English summary) **2005i:65184**

86A60 Geological problems

Adushkin, V. V. (*with* Rodionov, V. N.) On the nature of mechanical motion in the interior of the Earth. (Russian. Russian summary)
Eymard, Robert (*with* Gallouët, Thierry; Gervais, Véronique; Masson, Roland) Existence and uniqueness of a weak solution to a stratigraphic model. (English summary) **2005k:86021**
— (*with* Gallouët, Thierry; Granjeon, D.; Masson, Roland; Tran, Quang Huy) Multilithology stratigraphic model under maximum erosion rate constraint. (English summary) **2005a:86029**
Farmer, Christopher Geological modelling and reservoir simulation. (English summary) **2005j:86021**
Gallouët, Thierry *see* **Eymard, Robert et al., 2005a:86029** *and* **2005k:86021**
Gervais, Véronique (*with* Masson, Roland) Mathematical and numerical analysis of a stratigraphic model. (English summary) **2005g:86027**
— *see also* **Eymard, Robert et al., 2005k:86021**
Granjeon, D. *see* **Eymard, Robert et al., 2005a:86029**
Latham, J.-P. (*with* Munjiza, A.) The modelling of particle systems with real shapes. (English summary) **2005c:86007**
Masson, Roland *see* **Eymard, Robert et al., 2005a:86029; 2005k:86021** *and* **Gervais, Véronique, 2005g:86027**
Munjiza, A. *see* **Latham, J.-P., 2005c:86007**
Prodaĭvoda, G. T. (*with* Vizhva, S. A.) Problems of the complex geodynamic interpretation of the data of the geophysical monitoring of natural and technogenic processes. (Ukrainian. English summary)
Rodionov, V. N. *see* **Adushkin, V. V.**
Tran, Quang Huy *see* **Eymard, Robert et al., 2005a:86029**
Vizhva, S. A. *see* **Prodaĭvoda, G. T.**
Wu, Fei[2] (*with* Yang, Tian Xing) On the research and the application of Monte-Carlo stochastic method and integral interpolation method for solving groundwater problems. (Chinese. English and Chinese summaries)
Yang, Tian Xing *see* **Wu, Fei[2]**

Items with secondary classifications in 86A60

Chambaudet, A. *see* **Radid, A. et al., 2005a:74068**
Fernandez Merodo, José Antonio *see* **Pastor, Manuel et al., (2005b:74003)**
González, Elena *see* **Pastor, Manuel et al., (2005b:74003)**
Grivet, M. *see* **Radid, A. et al., 2005a:74068**
Herreros, Maria Isabel *see* **Pastor, Manuel et al., (2005b:74003)**
Ibrahim, M. N. M. Productivity of oil wells in arbitrarily shaped reservoirs. (*see* **2005m:00007**)
Kawakami, D. (*with* Voller, V. R.; Paola, C.) Moving boundary problems in earth-surface dynamics. (English summary) (*see* **2005b:65003**)
Miellou, Jean-Claude *see* **Radid, A. et al., 2005a:74068**
Mira, Pablo *see* **Pastor, Manuel et al., (2005b:74003)**
Paola, C. *see* **Kawakami, D. et al., (2005b:65003)**
Pastor, Manuel (*with* Fernandez Merodo, José Antonio; Herreros, Maria Isabel; González, Elena; Mira, Pablo; Quecedo, Manuel) Modelling of debris flows and flow slides. (*see* **2005b:74003**)
Pavlov, V. P. A field-theoretic approach to the dynamics of a continuous medium: peturbation theory. (Russian. Russian summary) **2005i:74058**
Quecedo, Manuel *see* **Pastor, Manuel et al., (2005b:74003)**
Radid, A. (*with* Miellou, Jean-Claude; Chambaudet, A.; Grivet, M.) About a rock thermochronologycal model: Laslett's law study and time equivalent method. (English summary) [About a rock thermochronological model: Laslett's law study and time equivalent method] **2005a:74068**
Voller, V. R. *see* **Kawakami, D. et al., (2005b:65003)**

86A99 Miscellaneous topics

Items with secondary classifications in 86A99

Dereksdóttir, Eva Hlín *see* **Magnússon, Kjartan G. et al.**
Magnússon, Kjartan G. (*with* Sigurdsson, Sven Th.; Dereksdóttir, Eva Hlín) A simulation model for capelin migrations in the North Atlantic. (English summary)
Qiu, Chun-han A computational model of water migration flux in freezing soil in a closed system. (English summary)
Sigurdsson, Sven Th. *see* **Magnússon, Kjartan G. et al.**

90–XX Operations research, mathematical programming

90–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

(Du, Ding-Zhu) *see* **Handbook of combinatorial optimization. Supplement Vol. B, 2005h:90001**
(Leung, Joseph Y.-T.) *see* **Handbook: Scheduling, 2005d:90001**
(Pardalos, Panos M.) *see* **Handbook of combinatorial optimization. Supplement Vol. B, 2005h:90001**
(Ruszczyński, Andrzej) *see* **Stochastic programming, 2005f:90001**
(Shapiro, Alexander) *see* **Stochastic programming, 2005f:90001**

Items listed otherwise than by author

Handbook of combinatorial optimization. Supplement Vol. B ★ Handbook of combinatorial optimization. Supplement Vol. B. **2005h:90001**
Handbook:
Scheduling ★ Handbook of scheduling. **2005d:90001**
Stochastic programming ★ Stochastic programming. **2005f:90001**

Items with secondary classifications in 90–00

Chatterjee, Anindya Mathematics in engineering. (English summary)

90–01 Instructional exposition (textbooks, tutorial papers, etc.)

Bartholomew-Biggs, Michael ★ Nonlinear optimization with financial applications. **2005h:90002**
Bazaraa, Mokhtar S. (*with* Jarvis, John J.; Sherali, Hanif D.) ★ Linear programming and network flows. **2005g:90001**
Boyd, Stephen P. (*with* Vandenberghe, Lieven) ★ Convex optimization. **2005d:90002**
Giorgi, Giorgio (*with* Guerraggio, Angelo; Thierfelder, J.) ★ Mathematics of optimization: smooth and nonsmooth case. **2005f:90002**
Guerraggio, Angelo *see* **Giorgi, Giorgio et al., 2005f:90002**
Ivanitskiĭ, A. Yu. *see* **Vasil'ev, F. P., 2005e:90001**
Izmailov, Alekseĭ Feridovich (*with* Solodov, Mikhail) ★ Численные методы оптимизации. (Russian. English and Russian summaries) [Numerical optimizatiom methods] **2005f:90003**
Jarvis, John J. *see* **Bazaraa, Mokhtar S. et al., 2005g:90001**
Jongen, Hubertus Th. (*with* Meer, Klaus; Triesch, Eberhard) ★ Optimization theory. **2005b:90001**
Kroese, Dirk P. *see* **Rubinstein, Reuven Y., 2005c:90001**
Lange, Kenneth ★ Optimization. **2005b:90002**
Marti, Kurt ★ Stochastic optimization methods. **2005h:90003**
Meer, Klaus *see* **Jongen, Hubertus Th. et al., 2005b:90001**
Meyer, Walter J.[1] ★ Concepts of mathematical modeling. **2005h:90004**
Rubinstein, Reuven Y. (*with* Kroese, Dirk P.) ★ The cross-entropy method. **2005c:90001**
Sherali, Hanif D. *see* **Bazaraa, Mokhtar S. et al., 2005g:90001**
Snyman, Jan A. ★ Practical mathematical optimization. **2005i:90001**
Solodov, Mikhail *see* **Izmailov, Alekseĭ Feridovich, 2005f:90003**
Thierfelder, J. *see* **Giorgi, Giorgio et al., 2005f:90002**
Triesch, Eberhard *see* **Jongen, Hubertus Th. et al., 2005b:90001**
Vandenberghe, Lieven *see* **Boyd, Stephen P., 2005d:90002**
Vasil'ev, F. P. (*with* Ivanitskiĭ, A. Yu.) ★ Линейное программирование. (Russian) [Linear programming] **2005e:90001**

Items with secondary classifications in 90–01

Caldwell, James (*with* Ng, Douglas K. S.) ★ Mathematical modelling. **2005a:93002**
Cardia, Marli *see* **Gonzaga, Clóvis C., 2005c:90044**
Da Silva E Silva, Paulo José *see* **Humes, Carlos, Jr.**
(Donets, V. M.) *see* **Kolbin, Vyacheslav Viktorovich, 2005e:91001**
Gonzaga, Clóvis C. (*with* Cardia, Marli) Properties of the central points in linear programming problems. (English summary) **2005c:90044**
Humes, Carlos, Jr. (*with* Da Silva E Silva, Paulo José) Inexact proximal point algorithms and descent methods in optimization. (English summary)
Kawasaki, Hidefumi ★ Kyokuchi mondai. (Japanese) [Extremal problems]
Keyfitz, Barbara Lee Hold that light! Modeling of traffic flow by differential equations. (*see* **2005m:49001**)
Kolbin, Vyacheslav Viktorovich ★ Decision making and programming. **2005e:91001**
Nesterov, Yurii ★ Introductory lectures on convex optimization. **2005k:90001**
Ng, Douglas K. S. *see* **Caldwell, James, 2005a:93002**
Schumacher, J. M. Complementarity systems in optimization. (English summary) **2005c:90100**

90–02 Research exposition (monographs, survey articles)

Bramel, Julien *see* **Simchi-Levi, David et al., 2005d:90003**
Bushenkov, Vladimir A. *see* **Lotov, A. V. et al., 2005a:90002**
Cambini, Alberto (*with* Martein, Laura) Generalized convexity and optimality conditions in scalar and vector optimization. (English summary) (*see* **2005i:90003**)
Chen, Xin[1] *see* **Simchi-Levi, David et al., 2005d:90003**
(Cohon, Jared L.) *see* **Lotov, A. V. et al., 2005a:90002**
Collette, Yann (*with* Siarry, Patrick) ★ Multiobjective optimization. **2005b:90003**
Crouzeix, Jean-Pierre Criteria for generalized convexity and generalized monotonicity in the differentiable case. (English summary) (*see* **2005i:90003**)
— Continuity and differentiability of quasiconvex functions. (English summary) (*see* **2005i:90003**)
Đinh Thế Lục Generalized convexity in vector optimization. (English summary) (*see* **2005i:90003**)
Dutta, Joydeep *see* **Rubinov, Aleksandr M., (2005i:90003)**
Ehrgott, Matthias (*with* Gandibleux, Xavier) Approximative solution methods for multiobjective combinatorial optimization. (English summary) **2005b:90004**
Eiselt, H. A. *see* **ReVelle, C. S.**
Frenk, Johannes B. G. (*with* Kassay, Gábor) Introduction to convex and quasiconvex analysis. (English summary) (*see* **2005i:90003**)
— (*with* Schaible, Siegfried) Fractional programming. (English summary) (*see* **2005i:90003**)
Gandibleux, Xavier *see* **Ehrgott, Matthias, 2005b:90004**
(Graves, Robert J.) *see* **Subbu, Raj, 2005a:90004**
Hadjisavvas, Nicolas (*with* Schaible, Siegfried) Generalized monotone maps. (English summary) (*see* **2005i:90003**)
— Generalized convexity, generalized monotonicity and nonsmooth analysis. (English summary) (*see* **2005i:90003**)
— *see also* **Handbook: Generalized convexity and generalized monotonicity, 2005i:90003**
Kamenev, G. K. *see* **Lotov, A. V. et al., 2005a:90002**
Kassay, Gábor *see* **Frenk, Johannes B. G., (2005i:90003)**
de Klerk, Etienne ★ Aspects of semidefinite programming. **2005a:90001**
Komlósi, Sándor Generalized convexity and generalized derivatives. (English summary) (*see* **2005i:90003**)
— *see also* **Handbook: Generalized convexity and generalized monotonicity, 2005i:90003**
Kusraev, A. G. (*with* Kutateladze, S. S.) Kantorovich spaces and optimization. (English and Russian summaries) **2005j:90001**
Kutateladze, S. S. *see* **Kusraev, A. G., 2005j:90001**
Lotov, A. V. (*with* Bushenkov, Vladimir A.; Kamenev, G. K.) ★ Interactive decision maps. **2005a:90002**
Martein, Laura *see* **Cambini, Alberto, (2005i:90003)**
Martínez-Legaz, Juan Enrique Generalized convex duality and its economic applications. (English summary) (*see* **2005i:90003**)
Morrison, Ronald W. ★ Designing evolutionary algorithms for dynamic environments. **2005b:90005**
Nesterov, Yurii ★ Introductory lectures on convex optimization. **2005k:90001**
Qi, Xiangtong *see* **Yu, Gang**[2], **2005h:90005**
Ray, Subhash C. ★ Data envelopment analysis. **2005a:90003**
ReVelle, C. S. (*with* Eiselt, H. A.) Location analysis: a synthesis and survey. (English summary)
Rubinov, Aleksandr M. (*with* Dutta, Joydeep) Abstract convexity. (English summary) (*see* **2005i:90003**)
van Ryzin, Garrett J. *see* **Talluri, Kalyan T.**
Sanderson, Arthur C. *see* **Subbu, Raj, 2005a:90004**
Schaible, Siegfried *see* **Handbook: Generalized convexity and generalized monotonicity, 2005i:90003; Frenk, Johannes B. G., (2005i:90003); Hadjisavvas, Nicolas, 2005i:90003** *and* **(2005i:90003)**
Siarry, Patrick *see* **Collette, Yann, 2005b:90003**
Simchi-Levi, David (*with* Chen, Xin[1]; Bramel, Julien) ★ The logic of logistics. **2005d:90003**
Still, Georg Approximation and optimization: classical results and new developments. (English summary) **2005i:90002**
Subbu, Raj (*with* Sanderson, Arthur C.) ★ Network-based distributed planning using coevolutionary algorithms. **2005a:90004**
Talluri, Kalyan T. (*with* van Ryzin, Garrett J.) ★ The theory and practice of revenue management.
Yaman, Hande ★ Concentrator location in telecommunications networks. **2005g:90002**
Yu, Gang[2] (*with* Qi, Xiangtong) ★ Disruption management. **2005h:90005**

Items listed otherwise than by author

Handbook:
Generalized convexity and generalized monotonicity ★ Handbook of generalized convexity and generalized monotonicity. **2005i:90003**

Items with secondary classifications in 90–02

Asef-Vaziri, Ardavan (*with* Laporte, Gilbert) Loop based facility planning and material handling. (English summary)
Bartholomew-Biggs, Michael ★ Nonlinear optimization with financial applications. **2005h:90002**
Beichelt, F. E. *see* **Mamabolo, R. M., 2005g:90037**
Bianchi, Monica (*with* Schaible, Siegfried) Equilibrium problems under generalized convexity and generalized monotonicity. (English summary) **2005m:90153**
Bouibede-Hocine, Karima *see* **T'kindt, Vincent et al., 2005m:90042**
Brucker, Peter ★ Scheduling algorithms. **2005a:90056**
Bukhtoyarov, S. E. (*with* Emelichev, Vladimir A.; Stepanishina, Yu. V.) Problems in the stability of vector discrete problems with a parametric optimality principle. (Russian. English and Ukrainian summaries) **2005e:90105**
Costa, Alysson M. A survey on Benders decomposition applied to fixed-charge network design problems. (English summary) **2005g:90111**
El-Haik, Basem Said ★ Axiomatic quality. **2005m:90026**
Emelichev, Vladimir A. *see* **Bukhtoyarov, S. E. et al., 2005e:90105**
Enkhbat, Rentsen (*with* Guddat, Jürgen) From linear parametric optimization to nonlinear parametric optimization: methods and algorithms (survey). (English summary)
Esswein, Carl *see* **T'kindt, Vincent et al., 2005m:90042**
Fragnelli, Vito (*with* Tadei, Roberto) Operations research games. (Italian. English and Italian summaries)
Geraghty, John (*with* Heavey, Cathal) A review and comparison of hybrid and pull-type production control strategies. (English summary)
Giorgi, Giorgio (*with* Guerraggio, Angelo; Thierfelder, J.) ★ Mathematics of optimization: smooth and nonsmooth case. **2005f:90002**
Greenberg, Harvey J. (*with* Hart, William Eugene; Lancia, Giuseppe G.) Opportunities for combinatorial optimization in computational biology. (English summary) **2005b:90107**
Guddat, Jürgen *see* **Enkhbat, Rentsen**
Guerraggio, Angelo *see* **Giorgi, Giorgio et al., 2005f:90002**

Harper, Lawrence H. ★ Global methods for combinatorial isoperimetric problems. **2005c:05002**
Hart, William Eugene *see* **Greenberg, Harvey J. et al., 2005b:90107**
Heavey, Cathal *see* **Geraghty, John**
Heuberger, Clemens Inverse combinatorial optimization: a survey on problems, methods, and results. (English summary) **2005d:90098**
Horst, R. (*with* Nguyen Van Thoai) On an optimality condition in DC optimization. Errata to: "DC programming: overview" [J. Optim. Theory Appl. **103** (1999), no. 1, 1–43; MR1715016 (2000g:90051)]. (English summary) **2005b:90101**
Jahn, Johannes ★ Vector optimization. **2005c:49001**
Kerivin, Hervé (*with* Mahjoub, Ali Ridha) Design of survivable networks: a survey. (English summary)
Kroese, Dirk P. *see* **Rubinstein, Reuven Y., 2005c:90001**
Kuhn, Daniel ★ Generalized bounds for convex multistage stochastic programs. **2005h:90080**
Kurdila, Andrew J. (*with* Zabarankin, Michael) ★ Convex functional analysis. **2005m:49003**
Lancia, Giuseppe G. *see* **Greenberg, Harvey J. et al., 2005b:90107**
Laporte, Gilbert *see* **Asef-Vaziri, Ardavan**
Lauff, Volker (*with* Werner, Frank) Scheduling with common due date, earliness and tardiness penalties for multimachine problems: a survey. (English summary)
(Leung, Joseph Y.-T.) *see* **Handbook: Scheduling, 2005d:90001**
Mahjoub, Ali Ridha *see* **Kerivin, Hervé**
Mamabolo, R. M. (*with* Beichelt, F. E.) Maintenance policies with minimal repair. (English summary) **2005g:90037**
Martínez, José Mario (*with* Pilotta, Elvio A.) Inexact restoration methods for nonlinear programming: advances and perspectives. (English summary) **2005m:90119**
Nguyen Van Thoai *see* **Horst, R., 2005b:90101**
(Papadimitriou, Christos H.) *see* **Vempala, Santosh S., 2005j:68002**
Pilotta, Elvio A. *see* **Martínez, José Mario, 2005m:90119**
Rubinstein, Reuven Y. (*with* Kroese, Dirk P.) ★ The cross-entropy method. **2005c:90001**
Salahi, Maziar (*with* Sotirov, Renata; Terlaky, Tamás) On self-regular IPMs. (English summary) **2005m:90160**
Schaible, Siegfried *see* **Bianchi, Monica, 2005m:90153**
Sotirov, Renata *see* **Salahi, Maziar et al., 2005m:90160**
Stepanishina, Yu. V. *see* **Bukhtoyarov, S. E. et al., 2005e:90105**
(Suh, Nam P.) *see* **El-Haik, Basem Said, 2005m:90026**
Tadei, Roberto *see* **Fragnelli, Vito**
Terlaky, Tamás *see* **Salahi, Maziar et al., 2005m:90160**
Thierfelder, J. *see* **Giorgi, Giorgio et al., 2005f:90002**
T'kindt, Vincent (*with* Bouibede-Hocine, Karima; Esswein, Carl) Counting and enumeration complexity with application to multicriteria scheduling. (English summary) **2005m:90042**
Vasiljević, Darko ★ Classical and evolutionary algorithms in the optimization of optical systems. **2005h:78003**
Vempala, Santosh S. ★ The random projection method. **2005j:68002**
Werner, Frank *see* **Lauff, Volker**
Wright, Margaret H. The interior-point revolution in optimization: history, recent developments, and lasting consequences. (English summary) **2005j:90100**
Zabarankin, Michael *see* **Kurdila, Andrew J., 2005m:49003**

Items listed otherwise than by author

Handbook:
Scheduling ★ Handbook of scheduling. **2005d:90001**
Lecture Notes in Economics and Mathematical Systems *see* **Kuhn, Daniel, 2005h:90080**

90–03 Historical (must also be assigned at least one classification number from Section 01)

Assad, Arjang A. *see* **Gass, Saul I., 2005g:90003**
Durnová, Helena A history of discrete optimization. (*see* **2005j:01002**)
Gass, Saul I. (*with* Assad, Arjang A.) ★ An annotated timeline of operations research: an informal history. **2005g:90003**
Kuhn, Harold W. Statement for Naval Research Logistics: "The Hungarian method for the assignment problem". (English summary) **2005i:90004**

Items with secondary classifications in 90–03

Armatte, Michel (*with* Dahan-Dalmédico, Amy) Modèles et modélisations, 1950–2000: nouvelles pratiques, nouveaux enjeux. (English and French summaries) [Models and modelling, 1950–2000: new applications, new challenges]
Dahan-Dalmédico, Amy *see* **Armatte, Michel**
Dzemyda, Gintautas (*with* Šaltenis, Vydūnas; Žilinskas, Antanas) The jubilee of Prof. Dr. Habil. Jonas Mockus. (*see* **2005c:90002**)
Frank, András On Kuhn's Hungarian method—a tribute from Hungary. (English summary)
(Kantorovich, Leonid Vital'evich) *see* **Kantorovich, V. L.**
Kantorovich, V. L. Some facts related to the papers by L. V. Kantorovich reproduced in this issue. (Russian)
Kirby, Maurice W. ★ Operational research in war and peace. **2005d:01014**
(Kuhn, Harold W.) *see* **Owen, Guillermo**
Millán Gasca, Ana Applying mathematics to the problems of management and organization: historical antecedents. (Spanish. English and Spanish summaries)
(Mockus, Jonas) *see* **Dzemyda, Gintautas et al., (2005c:90002)**
Owen, Guillermo IFORS' Operational Research Hall of Fame: Harold W. Kuhn.
(Padberg, Manfred) *see* **Biography: Padberg, Manfred W., (2005b:90009)** *and* **Wolsey, Laurence A., (2005b:90009)**
Pallottino, Stefano (*with* Tadei, Roberto) Foreword [Network optimization in transportation and communication].
Šaltenis, Vydūnas *see* **Dzemyda, Gintautas et al., (2005c:90002)**
Tadei, Roberto *see* **Pallottino, Stefano**
Wolsey, Laurence A. Time for old and new faces. (*see* **2005b:90009**)
Wright, Margaret H. The interior-point revolution in optimization: history, recent developments, and lasting consequences. (English summary) **2005j:90100**
Žilinskas, Antanas *see* **Dzemyda, Gintautas et al., (2005c:90002)**

Items listed otherwise than by author

Bibliography:
Kuhn, Harold W. *see* **Owen, Guillermo**
Padberg, Manfred W. Manfred Padberg. (*see* **2005b:90009**)
Biography:
Kuhn, Harold W. *see* **Owen, Guillermo**
Mockus, Jonas B. *see* **Dzemyda, Gintautas et al., (2005c:90002)**
Padberg, Manfred W. Manfred Padberg. (*see* **2005b:90009**)

90–04 Explicit machine computation and programs (not the theory of computation or programming)

Bhaskar, Atul *see* **Leary, Stephen J. et al., 2005h:90006**
Fernandes, Edite M. G. P. *see* **Vaz, A. Ismael F. et al.**
Gomes, M. Paula S. F. *see* **Vaz, A. Ismael F. et al.**
Gould, Nicholas I. M. (*with* Orban, Dominique; Toint, Philippe L.) GALAHAD, a library of thread-safe Fortran 90 packages for large-scale nonlinear optimization. (English summary) **2005b:90006**
Keane, Andy J. *see* **Leary, Stephen J. et al., 2005h:90006**
Leary, Stephen J. (*with* Bhaskar, Atul; Keane, Andy J.) A derivative based surrogate model for approximating and optimizing the output of an expensive computer simulation (English summary) **2005h:90006**
Orban, Dominique *see* **Gould, Nicholas I. M. et al., 2005b:90006**
Toint, Philippe L. *see* **Gould, Nicholas I. M. et al., 2005b:90006**
Vaz, A. Ismael F. (*with* Fernandes, Edite M. G. P.; Gomes, M. Paula S. F.) SIPAMPL: semi-infinite programming with AMPL. (English summary)

Items with secondary classifications in 90–04

Fourer, Robert (*with* Lopes, Leo; Martin, Richard Kipp) LPFML: a W3C XML schema for linear and integer programming. (English summary) **2005k:90070**
Gaviano, Marco (*with* Kvasov, D. E.; Lera, Daniela; Sergeev, Yaroslav D.) Algorithm 829: software for generation of classes of test functions with known local and global minima for global optimization. (English summary) **2005b:90128**
Grundel, Don A. (*with* Pardalos, Panos M.) Test problem generator for the multidimensional assignment problem. (English summary) **2005h:90106**
Kvasov, D. E. *see* **Gaviano, Marco et al., 2005b:90128**
Laita, Luis M. *see* **Roanes-Lozano, Eugenio et al.**
Lera, Daniela *see* **Gaviano, Marco et al., 2005b:90128**
Lopes, Leo *see* **Fourer, Robert et al., 2005k:90070**
Martin, Richard Kipp *see* **Fourer, Robert et al., 2005k:90070**
Pardalos, Panos M. *see* **Grundel, Don A., 2005h:90106**
Roanes-Lozano, Eugenio (*with* Laita, Luis M.; Roanes-Macías, Eugenio) An accelerated-time simulation of departing passengers' flow in airport terminals. (English summary)
Roanes-Macías, Eugenio *see* **Roanes-Lozano, Eugenio et al.**
Sergeev, Yaroslav D. *see* **Gaviano, Marco et al., 2005b:90128**
Stanimirović, Predrag S. (*with* Tasić, Milan B.) A modification of gradient method of convex programming and its implementation. (English summary)
Tasić, Milan B. *see* **Stanimirović, Predrag S.**

90–06 Proceedings, conferences, collections, etc.

(Ahr, Dino) *see* **Proceedings: Operations Research, 2003, 2005d:90005**
(Alidaee, Bahram) *see* **Metaheuristic optimization via memory and evolution, 2005h:90007**
(Audet, Charles) *see* **Special Issue: Surrogate optimization**
Baptiste, Philippe (*with* Kenyon, Claire; Schrijver, Alexander) ★ Recherche opérationnelle. [Operational research]
(Bienstock, Daniel) *see* **Integer programming and combinatorial optimization, 2005m:90001**
Błażewicz, Jacek (*with* Ecker, Klaus H.; Trystram, Denis) Editorial [Recent advances in scheduling in computer and manufacturing systems].
(Brigantic, Robert T.) *see* **Defense transportation: algorithms, models and applications for the 21st century**
(Cook, William J.) *see* **Integer programming and combinatorial optimization, 2005a:90006**
(Cooper, William W.) *see* **Handbook: Data envelopment analysis, 2005f:90005**
(Dennis, John E., Jr.) *see* **Special Issue: Surrogate optimization**
Derigs, Ulrich (*with* Voß, Stefan) Preface [Meta-heuristics—theory, applications and software].
(Đinh Thế Lục) *see* **Generalized convexity, generalized monotonicity and applications, 2005f:90004**
(Dzemyda, Gintautas) *see* **Stochastic and global optimization, 2005c:90002**
(Eberhard, Andrew) *see* **Generalized convexity, generalized monotonicity and applications, 2005f:90004**
Ecker, Klaus H. *see* **Błażewicz, Jacek et al.**
(Fahrion, R.) *see* **Proceedings: Operations Research, 2003, 2005d:90005**
Fang, Shu-Cherng *see* **Wu, Soon-Yi**
Ferris, Michael C. (*with* Pang, Jong-Shi; Ralph, Daniel; Scholtes, Stefan) Foreword [Complimentarity problems: 40 years on].
— (*with* Solodov, Mikhail) Foreword: Special issue for the 70th birthday of Professor Olvi Mangasarian.
Floudas, Christodoulos A. (*with* Pardalos, Panos M.) Preface [Special issue on frontiers in global optimization].
— *see also* **Frontiers in global optimization, 2005a:90005**
Gao, David Yang (*with* Teo, Kok Lay) Preface [Special issue on duality theory, methods and applications].
Gelenbe, Erol Advances in modelling of complex systems: preface to the special issue.

(Greenberg, Harvey J.) *see* **Tutorials on emerging methodologies and applications in operations research, 2005h:90009**
Griggs, Jerrold (*with* Tortorella, Michael) Introduction to special issue on networks and computation.
(Grötschel, Martin) *see* **Sharpest cut, 2005b:90009**
(Guddat, Jürgen) *see* **Parametric optimization and related topics. VII, 2005h:90008**
(Hadjisavvas, Nicolas) *see* **Generalized convexity, generalized monotonicity and applications, 2005f:90004**
(Hartmann, Alexander K.) *see* **New optimization algorithms in physics, 2005d:90004**
(Hoşten, Serkan) *see* **Trends in optimization, 2005f:90006**
(Inuiguchi, Masahiro) *see* **Multi-objective programming and goal programming, 2005b:90008**
(Jongen, Hubertus Th.) *see* **Parametric optimization and related topics. VII, 2005h:90008**
Jussien, Narendra (*with* Laburthe, François) Foreword [Hybrid optimization techniques].
Kenyon, Claire *see* **Baptiste, Philippe et al.**
Laburthe, François *see* **Jussien, Narendra**
(Lee, Jon[2]) *see* **Trends in optimization, 2005f:90006**
(Mahan, Jean M.) *see* **Defense transportation: algorithms, models and applications for the 21st century**
(Mangasarian, O. L.) *see* **Ferris, Michael C.**
Martínez, José Mario (*with* Yuan, Jin Yun) Preface [Theory and practice in optimization].
(Nemhauser, George L.) *see* **Integer programming and combinatorial optimization, 2005m:90001**
(Oswald, Marcus) *see* **Proceedings: Operations Research, 2003, 2005d:90005**
(Padberg, Manfred) *see* **Sharpest cut, 2005b:90009**
Pallottino, Stefano (*with* Tadei, Roberto) Foreword [Network optimization in transportation and communication].
Pang, Jong-Shi *see* **Ferris, Michael C. et al.**
Pardalos, Panos M. *see* **Frontiers in global optimization, 2005a:90005** *and* **Floudas, Christodoulos A., 2005a:90005**
Pinedo, Michael L. ★ Planning and scheduling in manufacturing and services. **2005g:90004**
Pruhs, Kirk R. Editorial: Special issue on online scheduling.
(Qi, Liqun) *see* **Optimization and control with applications, 2005m:90002**
Ralph, Daniel *see* **Ferris, Michael C. et al.**
(Rego, César) *see* **Metaheuristic optimization via memory and evolution, 2005h:90007**
(Reinelt, Gerhard) *see* **Proceedings: Operations Research, 2003, 2005d:90005**
(Resende, Maurício G. C.) *see* **Metaheuristics: computer decision-making, 2005b:90007**
(Rieger, Heiko) *see* **New optimization algorithms in physics, 2005d:90004**
(Rückmann, Jan-J.) *see* **Parametric optimization and related topics. VII, 2005h:90008**
(Šaltenis, Vydūnas) *see* **Stochastic and global optimization, 2005c:90002**
Scholtes, Stefan *see* **Ferris, Michael C. et al.**
Schrijver, Alexander *see* **Baptiste, Philippe et al.**
(Schulz, Andreas S.) *see* **Integer programming and combinatorial optimization, 2005a:90006**
(Seiford, Lawrence M.) *see* **Handbook: Data envelopment analysis, 2005f:90005**
Solodov, Mikhail *see* **Ferris, Michael C.**
(de Sousa, Jorge Pinho) *see* **Metaheuristics: computer decision-making, 2005b:90007**
Tadei, Roberto *see* **Pallottino, Stefano**
(Tanaka, Tamaki) *see* **Multi-objective programming and goal programming, 2005b:90008**
(Tanino, Tetsuzo) *see* **Multi-objective programming and goal programming, 2005b:90008**
Teo, Kok Lay *see* **Optimization and control with applications, 2005m:90002** *and* **Gao, David Yang**
(Thomas, Rekha R.) *see* **Trends in optimization, 2005f:90006**
(Todorov, Maxim Ivanov) *see* **Parametric optimization and related topics. VII, 2005h:90008**
Tortorella, Michael *see* **Griggs, Jerrold**
Trystram, Denis *see* **Błażewicz, Jacek et al.**
Valls Verdejo, Vicente (*with* Węglarz, Jan) Project management and scheduling.
(Viana, Ana) *see* **Metaheuristics: computer decision-making, 2005b:90007**
(Vicente, Luís N.) *see* **Special Issue: Surrogate optimization**
Voß, Stefan *see* **Derigs, Ulrich**
Węglarz, Jan *see* **Valls Verdejo, Vicente**
Wu, Soon-Yi (*with* Fang, Shu-Cherng) Foreword [Special Issue on the International Conference on Optimization and Optimal Control (ICOOC)].
(Yang, Xiao Qi) *see* **Optimization and control with applications, 2005m:90002**
Yuan, Jin Yun *see* **Martínez, José Mario**
(Zhu, Joe) *see* **Handbook: Data envelopment analysis, 2005f:90005**
(Žilinskas, Antanas) *see* **Stochastic and global optimization, 2005c:90002**

Items listed otherwise than by author

Berlin ★ The sharpest cut. **2005b:90009**
Cambridge, MA ★ Integer programming and combinatorial optimization. **2005a:90006**
Defense transportation: algorithms, models and applications for the 21st century ★ Defense transportation: algorithms, models and applications for the 21st century.
Denver, CO ★ Tutorials on emerging methodologies and applications in operations research. **2005h:90009**
Erice ★ Optimization and control with applications. **2005m:90002**
Frontiers in global optimization ★ Frontiers in global optimization. **2005a:90005**
Generalized convexity, generalized monotonicity and applications ★ Generalized convexity, generalized monotonicity and applications. **2005f:90004**
Handbook:
Data envelopment analysis ★ Handbook on data envelopment analysis. **2005f:90005**
Hanoi ★ Generalized convexity, generalized monotonicity and applications. **2005f:90004**
Heidelberg ★ Operations Research Proceedings 2003. **2005d:90005**
Integer programming and combinatorial optimization ★ Integer programming and combinatorial optimization. **2005a:90006**
—★ Integer programming and combinatorial optimization. **2005m:90001**
Lecture Notes in Computer Science ★ Integer programming and combinatorial optimization. **2005a:90006**
—★ Integer programming and combinatorial optimization. **2005m:90001**
Metaheuristic optimization via memory and evolution ★ Metaheuristic optimization via memory and evolution. **2005h:90007**
Metaheuristics: computer decision-making ★ Metaheuristics: computer decision-making. **2005b:90007**
Multi-objective programming and goal programming ★ Multi-objective programming and goal programming. **2005b:90008**
Nara ★ Multi-objective programming and goal programming. **2005b:90008**
New optimization algorithms in physics ★ New optimization algorithms in physics. **2005d:90004**
New York ★ Integer programming and combinatorial optimization. **2005m:90001**
Operational research *see* **Baptiste, Philippe et al.**
Optimization and control with applications ★ Optimization and control with applications. **2005m:90002**
Parametric optimization and related topics. VII ★ Parametric optimization and related topics. VII. **2005h:90008**
Phoenix, AZ ★ Trends in optimization. **2005f:90006**
Porto ★ Metaheuristics: computer decision-making. **2005b:90007**
Proceedings of Symposia in Applied Mathematics ★ Trends in optimization. **2005f:90006**
Proceedings:
Operations Research, 2003 ★ Operations Research Proceedings 2003. **2005d:90005**
Puebla ★ Parametric optimization and related topics. VII. **2005h:90008**
Recherche opérationnelle *see* **Baptiste, Philippe et al.**
Santorini ★ Frontiers in global optimization. **2005a:90005**
Sharpest cut ★ The sharpest cut. **2005b:90009**
Special Issue:
Surrogate optimization ★ Special issue on surrogate optimization.
Stochastic and global optimization ★ Stochastic and global optimization. **2005c:90002**
Trends in optimization ★ Trends in optimization. **2005f:90006**
Tutorials on emerging methodologies and applications in operations research ★ Tutorials on emerging methodologies and applications in operations research. **2005h:90009**

Items with secondary classifications in 90–06

Antsaklis, Panos J. (*with* Baillieul, John) Guest editorial. Special issue on networked control systems.
Baillieul, John *see* **Antsaklis, Panos J.**
(Cho, Yeol Je) *see* **Fixed point theory and applications. Vol. 3, 2005b:00025**
(Evtushenko, Yurii Gavrilovich) *see* **Moiseev, Nikita Nikolaevich**
Ferris, Michael C. (*with* Zhang, Yin[1]) Foreword: Special issue on mathematical programming in biology and medicine.
(Flerov, Yu. A.) *see* **Moiseev, Nikita Nikolaevich**
(Fletcher, Roger) *see* **Gould, Nicholas I. M. et al.**
Fortin, Charles (*with* Wolkowicz, Henry) The trust region subproblem and semidefinite programming. (English summary) **2005c:90065**
(Gao, David Yang) *see* **Complementarity, duality and symmetry in nonlinear mechanics, 2005g:74002**
Gendreau, Michel (*with* Hertz, Alain; Semet, Frédéric; Widmer, Marino) Preface [The Fourth International Colloquium on Graphs and Optimisation (GO-IV)].
(Gong, Weibo) *see* **Modeling, control and optimization of complex systems, 2005a:00024**
Gould, Nicholas I. M. (*with* Leyffer, Sven; Toint, Philippe L.) Preface: Nonlinear programming: theory and practice [Special issue on large scale nonconvex optimization algorithms and applications in honor of Roger Fletcher's 65th birthday].
Hertz, Alain *see* **Gendreau, Michel et al.**
(Ho, Yu-Chi) *see* **Modeling, control and optimization of complex systems, 2005a:00024**
(Jansen, Klaus) *see* **Approximation and online algorithms, 2005c:68005**
(Kang, Shin Min) *see* **Fixed point theory and applications. Vol. 3, 2005b:00025**
(Kim, Jong Kyu) *see* **Fixed point theory and applications. Vol. 3, 2005b:00025**
(Leung, Joseph Y.-T.) *see* **Handbook: Scheduling, 2005d:90001**
Leyffer, Sven *see* **Gould, Nicholas I. M. et al.**
(Menon, Anil) *see* **Frontiers of evolutionary computation, 2005f:68006**
Moiseev, Nikita Nikolaevich ★ Избранные труды. 1. (Russian) [Selected works. 1]
Mordukhovich, Boris S. (*with* Rockafellar, R. Tyrrell) Preface [Variational analysis and its applications].
O'Sullivan, Barry Introduction to the special issue on user-interaction in constraint satisfaction.
(Parkhomenko, V. P.) *see* **Moiseev, Nikita Nikolaevich**
(Pavlovskiĭ, Yu. N.) *see* **Moiseev, Nikita Nikolaevich**
(Petrov, Aleksandr Aleksandrovich) *see* **Moiseev, Nikita Nikolaevich**
Rockafellar, R. Tyrrell *see* **Mordukhovich, Boris S.**
(Ruszczyński, Andrzej) *see* **Stochastic programming, 2005f:90001**
Semet, Frédéric *see* **Gendreau, Michel et al.**
(Shapiro, Alexander) *see* **Stochastic programming, 2005f:90001**
(Shi, Leyuan) *see* **Modeling, control and optimization of complex systems, 2005a:00024**
(Solis-Oba, Roberto) *see* **Approximation and online algorithms, 2005c:68005**
(Tarko, A. M.) *see* **Moiseev, Nikita Nikolaevich**
(Ter-Krikorov, A. M.) *see* **Moiseev, Nikita Nikolaevich**
Toint, Philippe L. *see* **Gould, Nicholas I. M. et al.**
Widmer, Marino *see* **Gendreau, Michel et al.**
Wolkowicz, Henry *see* **Fortin, Charles, 2005c:90065**
Zhang, Yin[1] *see* **Ferris, Michael C.**

Items listed otherwise than by author

Approximation and online algorithms ★ Approximation and online algorithms. **2005c:68005**
Aveiro ★ Aveiro Seminar on Control, Optimization, and Graph Theory.
Bibliography:
Moiseev, Nikita Nikolaevich *see* **Moiseev, Nikita Nikolaevich**
Budapest ★ Approximation and online algorithms. **2005c:68005**
Cambridge, MA ★ Modeling, control and optimization of complex systems. **2005a:00024**
Chinju ★ Fixed point theory and applications. Vol. 3. **2005b:00025**
Collected Works:
Moiseev, Nikita Nikolaevich *see* **Moiseev, Nikita Nikolaevich**

Complementarity, duality and symmetry in nonlinear mechanics ★ Complementarity, duality and symmetry in nonlinear mechanics. **2005g:74002**
Fixed point theory and applications. Vol. 3 ★ Fixed point theory and applications. Vol. 3. **2005b:00025**
Frontiers of evolutionary computation ★ Frontiers of evolutionary computation. **2005f:68006**
Handbook:
Scheduling ★ Handbook of scheduling. **2005d:90001**
Lecture Notes in Computer Science ★ Approximation and online algorithms. **2005c:68005**
Mason ★ Fixed point theory and applications. Vol. 3. **2005b:00025**
Modeling, control and optimization of complex systems ★ Modeling, control and optimization of complex systems. **2005a:00024**
Seminar:
Control, Optimization, and Graph Theory, Aveiro ★ Aveiro Seminar on Control, Optimization, and Graph Theory.
Shanghai ★ Complementarity, duality and symmetry in nonlinear mechanics. **2005g:74002**
Stochastic programming ★ Stochastic programming. **2005f:90001**

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Items with secondary classifications in 90Bxx

(Ahr, Dino) *see* **Proceedings: Operations Research, 2003, 2005d:90005**
(Fahrion, R.) *see* **Proceedings: Operations Research, 2003, 2005d:90005**
(Greenberg, Harvey J.) *see* **Tutorials on emerging methodologies and applications in operations research, 2005h:90009**
(Oswald, Marcus) *see* **Proceedings: Operations Research, 2003, 2005d:90005**
(Reinelt, Gerhard) *see* **Proceedings: Operations Research, 2003, 2005d:90005**

Items listed otherwise than by author

Denver, CO ★ Tutorials on emerging methodologies and applications in operations research. **2005h:90009**
Heidelberg ★ Operations Research Proceedings 2003. **2005d:90005**
Proceedings:
Operations Research, 2003 ★ Operations Research Proceedings 2003. **2005d:90005**
Tutorials on emerging methodologies and applications in operations research ★ Tutorials on emerging methodologies and applications in operations research. **2005h:90009**

90B05 Inventory, storage, reservoirs

Abdul-Jalbar, B. *see* **Sedeño-Noda, Antonio et al., 2005d:90010**
Adelman, Daniel A price-directed approach to stochastic inventory/routing. (English summary) **2005c:90003**
— (*with* Klabjan, Diego) Duality and existence of optimal policies in generalized joint replenishment. (English summary) **2005k:90002**
Aggarwal, S. P. (*with* Jain, Veena) Impact of price dependent demand on decaying inventory. (English summary)
Anderson, C. K. (*with* Davison, Matt; Rasmussen, Henning) Revenue management: a real options approach. (English summary) **2005a:90007**
Anily, Shoshana (*with* Bramel, Julien) An asymptotic 98.5%-effective lower bound on fixed partition policies for the inventory-routing problem. (English summary) **2005g:90005**
— (*with* Bramel, Julien) A probabilistic analysis of a fixed partition policy for the inventory-routing problem. (English summary) **2005c:90004**
Axsäter, Sven (*with* Kleijn, Marcel; de Kok, A. G.) Stock rationing in a continuous review two-echelon inventory model. (English summary) **2005a:90008**
Balkhi, Zaid T. On the optimality of inventory models with deteriorating items for demand and on-hand inventory dependent production rate. (English summary) **2005a:90009**
Banerjee, Arunava (*with* Paul, Anand) Average fill rate and horizon length. (English summary) **2005m:90003**
Basnet, Chuda (*with* Leung, Janny M. Y.) Inventory lot-sizing with supplier selection. (English summary)
Bassok, Yehuda *see* **Tibben-Lembke, Ronald S.**
Bernstein, Fernando (*with* Federgruen, Awi) Dynamic inventory and pricing models for competing retailers. (English summary) **2005a:90010**
— (*with* Federgruen, Awi) A general equilibrium model for industries with price and service competition. (English summary) **2005h:90010**
Bhattacharya, D. K. On multi-item inventory. (English summary) **2005f:90007**
Bramel, Julien *see* **Anily, Shoshana, 2005c:90004** *and* **2005g:90005**
Çetinkaya, Sila *see* **Jaruphongsa, Wikrom et al.**
Cha, Byung-Chul *see* **Moon, Ilkyeong, 2005i:90005**
Chakraborty, Debjani *see* **Dutta, Pankaj et al., 2005m:90005**
Chan, Gin Hor *see* **Song, Yuyue, 2005e:90005**
Chan, Ya-Lan *see* **Teng, Jinn-Tsair et al.** *and* **Chern, Maw-Sheng et al.**
Chande, A. (*with* Dhekane, S.; Hemachandra, N.; Rangaraj, N.) Perishable inventory management and dynamic pricing using RFID technology. (English summary)
Chandra, Charu (*with* Grabis, Jānis) Application of multi-steps forecasting for restraining the bullwhip effect and improving inventory performance under autoregressive demand. (English summary)
Chang, Chun-Tao Inventory models with stock-dependent demand and nonlinear holding costs for deteriorating items. (English summary)
— (*with* Teng, Jinn-Tsair) Retailer's optimal ordering policy under supplier credits. (English summary) **2005k:90003**
— *see also* **Teng, Jinn-Tsair**
Chang, Hung-Chi An application of fuzzy sets theory to the EOQ model with imperfect quality items. (English summary)
Chao, Huang-Chieh *see* **Chiu, Singa Wang et al.**
Chao, Xiuli *see* **Dai, Yue et al., 2005m:90004**
Chaubey, Yogendra P. (*with* Nebebe, Fassil; Goyal, Suresh) On continuous review stock control with multiple suppliers and non-negative lead times with special emphasis on Erlang distribution. (English summary) **2005b:90010**
Chausova, Elena V. Dynamic network inventory control model with interval nonstationary demand uncertainty. (English summary)
Chen, F. Frank *see* **Dong, Ming**
Chen, Kuo-Chao *see* **Huang, Chao-Kuei et al.**
Chen, Shaoxiang The infinite horizon periodic review problem with setup costs and capacity constraints: a partial characterization of the optimal policy. (English summary) **2005a:90011**
Chen, Xin[1] (*with* Simchi-Levi, David) Coordinating inventory control and pricing strategies with random demand and fixed ordering cost: the finite horizon case. (English summary) **2005f:90008**
Chen, Youhua Frank Fractional programming approach to two stochastic inventory problems. (English summary)
Cheng, Tzu-Liang *see* **Huang, Chao-Kuei et al.**
Chern, Maw-Sheng (*with* Chan, Ya-Lan; Teng, Jinn-Tsair) Comparison among various inventory shortage models for deteriorating items on the basis of maximizing profit. (English summary)
— *see also* **Teng, Jinn-Tsair et al.**
Chew, Ek Peng *see* **Lee, Loo Hay** *and* **Huang, Huei Chuen et al.**
Chiou, Chuang-Chun *see* **Yao, Ming-Jong, 2005b:90013**
Chiu, Singa Wang (*with* Chiu, Yuanshyi Peter; Chao, Huang-Chieh) Materials procurement decision-making based on the economic order quantity model and the economic production quantity model. (English summary)
Chiu, Yuanshyi Peter *see* **Chiu, Singa Wang et al.**
Cho, Richard K. (*with* Gerchak, Yigal) Supply chain coordination with downstream operating costs: coordination and investment to improve downstream operating efficiency. (English summary)
Choi, Tsan-Ming (*with* Li, Duan; Yan, Houmin) Optimal single ordering policy with multiple delivery modes and Bayesian information updates. (English summary) **2005g:90006**
Chu, Peter *see* **Yang, Gino et al.** *and* **Hung, Chih-Young et al.**
Chuang, Bor-Ren (*with* Ouyang, Liang-Yuh; Lin, Yu-Jen) Investing in lost sales reduction on periodic review inventory model with a service level constraint. (English summary)
— *see also* **Ouyang, Liang-Yuh et al.**
Chuang, Kai-Wayne *see* **Ouyang, Liang-Yuh et al.**
Cooper, William L. *see* **Zhang, Dan[5]**
Dai, Yue (*with* Chao, Xiuli; Fang, Shu-Cherng; Nuttle, Henry L. W.) Game theoretic analysis of a distribution system with customer market search. (English summary) **2005m:90004**
Das, Kalyanbrata (*with* Roy, Tapan Kumar[1]; Maiti, Manoranjan) Buyer-seller fuzzy inventory model for a deteriorating item with discount. (English summary) **2005e:90002**
Davison, Matt *see* **Anderson, C. K. et al., 2005a:90007**
Degraeve, Zeger *see* **Peeters, Marc**
Dekker, Rommert *see* **Krever, Maarten et al., 2005g:90007**
Deng, Peter Shaohua *see* **Hung, Chih-Young et al.**
Dey, Jayanta Kumar (*with* Kar, Samarjit; Maiti, Manoranjan) An interactive method for inventory control with fuzzy lead-time and dynamic demand. (English summary)
Dhekane, S. *see* **Chande, A. et al.**
Dong, Ming (*with* Chen, F. Frank) Performance modeling and analysis of integrated logistic chains: an analytic framework. (English summary)
Durán, Alfonso *see* **Zequeira, Rómulo I. et al.**
Dutta, Pankaj (*with* Chakraborty, Debjani; Roy, Akhil Ranjan) A single-period inventory model with fuzzy random variable demand. (English summary) **2005m:90005**
El-Wakeel, Mona F. *see* **Fergany, Hala A.**
Fang, Shu-Cherng *see* **Dai, Yue et al., 2005m:90004**
Federgruen, Awi *see* **Bernstein, Fernando, 2005a:90010** *and* **2005h:90010**
Feinberg, Eugene A. (*with* Lewis, Mark E.) Optimality of four-threshold policies in inventory systems with customer returns and borrowing/storage options. (English summary)
Feng, Q. (*with* Gallego, Guillermo; Sethi, Suresh P.; Yan, Houmin; Zhang, Han Qin) Periodic-review inventory model with three consecutive delivery modes and forecast updates. (English summary) **2005m:90006**
Fergany, Hala A. (*with* El-Wakeel, Mona F.) Probabilistic single-item inventory problem with varying order cost under two linear constraints. (English summary)
Gallego, Guillermo (*with* Toktay, L. Beril) All-or-nothing ordering under a capacity constraint. (English summary) **2005f:90009**
— (*with* Özer, Özalp) A new algorithm and a new heuristic for serial supply systems. (English summary) **2005j:90002**
— *see also* **Feng, Q. et al., 2005m:90006**
Ganguly, Ashok (*with* Panwar, Manjusha) A deterministic inventory replenishment problem with shortages for non-linear trend in demand under a finite horizon. (English summary)
Gavirneni, Srinagesh Periodic review inventory control with fluctuating purchasing costs. (English summary) **2005c:90005**
Gerchak, Yigal *see* **Cho, Richard K.**
Ghalebsaz-Jeddi, Babak (*with* Shultes, Bruce C.; Haji, Rasoul) A multi-product continuous review inventory system with stochastic demand, backorders, and a budget constraint. (English summary) **2005d:90006**
Ghosh, Debasis *see* **Sharma, Dinesh K. et al.**
Giri, Bibhas Chandra *see* **Moon, Ilkyeong et al.**
Goh, K. H. *see* **Huang, Huei Chuen et al.**
Goyal, Suresh *see* **Chaubey, Yogendra P. et al., 2005b:90010**
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Gutiérrez, Gil *see* **Zequeira, Rómulo I. et al.**
Gutiérrez, José Miguel (*with* Puerto Albandoz, Justo; Sicilia Rodríguez, J.) The multiscenario lot size problem with concave costs. (English summary) **2005a:90012**
— *see also* **Sedeño-Noda, Antonio et al., 2005d:90010**
Haji, Rasoul *see* **Ghalebsaz-Jeddi, Babak et al., 2005d:90006**
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He, Ju *see* **He, Yong[4] et al.**
He, Xin James *see* **Kim, Jeon G. et al., 2005c:90006**

He, Yong[4] (*with* Yang, De Li; He, Ju; Zhang, Xing Zhou) Optimizing inventory model for deteriorating items based on integrated approach. (Chinese. English and Chinese summaries)
Hemachandra, N. *see* **Chande, A. et al.**
Hoier, Nicole N. *see* **Kim, Song-Kyoo**
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Huang, Chao-Kuei (*with* Chen, Kuo-Chao; Cheng, Tzu-Liang) An inventory policy for the lead time demand with compound Poisson process and controllable lead time. (English summary)
Huang, Daisy M. H. *see* **Hung, Chih-Young et al.**
Huang, Huei Chuen (*with* Chew, Ek Peng; Goh, K. H.) A two-echelon inventory system with transportation capacity constraint. (English summary)
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— Replenishment decisions with defective items under trade credit policy. (English summary) **2005f:90010**
Hung, Chih-Young (*with* Tang, Titus; Huang, Daisy M. H.; Deng, Peter Shaohua; Lin, Robert Huang-Jing; Chu, Peter) Analytic inventory model with a mixture of back orders and lost sales. (English summary)
Inderfurth, Karl Analytical solution for a single-period production-inventory problem with uniformly distributed yield and demand. (English summary)
Jain, Veena *see* **Aggarwal, S. P.**
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Jefferson, Thomas R. *see* **Scott, Carlton H. et al., 2005g:90009**
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Jung, Hoon (*with* Klein, Cerry M.) Optimal inventory policies for an economic order quantity model with decreasing cost functions. (English summary)
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Kianfar, Farhad Optimal planning of equipment maintenance and replacement on a variable horizon. (English summary)
Kiesmüller, Gudrun P. (*with* de Kok, A. G.; Smits, Sanne R.; van Laarhoven, Peter J. M.) Evaluation of divergent N-echelon (s, nQ)-policies under compound renewal demand. (English summary) **2005d:90008**
Kim, Eungab Optimal inventory replenishment policy for a queueing system with finite waiting room capacity. (English summary) **2005k:90004**
Kim, Jeon G. (*with* Sun, Daewon; He, Xin James; Hayya, Jack C.) The (s, Q) inventory model with Erlang lead time and deterministic demand. (English summary) **2005c:90006**
Kim, Song-Kyoo (*with* Hoier, Nicole N.) Human resource allocation applications of stochastic maintenance models with super-reserve backups. (English summary)
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Lau, Amy Hing Ling (*with* Lau, Hon-Shiang) Some two-echelon supply-chain games: improving from deterministic-symmetric-information to stochastic-asymmetric-information models. (English summary) **2005e:90003**
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— *see also* **Jaruphongsa, Wikrom et al.**
Lee, Loo Hay (*with* Chew, Ek Peng) A dynamic joint replenishment policy with auto-correlated demand. (English summary)
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Leung, Janny M. Y. *see* **Basnet, Chuda**
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Li, Chung-Lun (*with* Hsu, Vernon Ning; Xiao, Wen-Qiang) Dynamic lot sizing with batch ordering and truckload discounts. (English summary) **2005b:90012**
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Li, Jing-An (*with* Liu, Ke[1]; Leung, Stephen C. H.; Lai, Kin Keung) Empty container management in a port with long-run average criterion. (English summary) **2005e:90004**
— *see also* **Liu, Ke[1] et al., 2005a:90013**
Lin, Chinho (*with* Lin, Yihsu) A joint EOQ model for supplier and retailer with deteriorating items. (English summary)
— (*with* Lin, Yihsu) The production size and inventory policy for a manufacturer in a two-echelon inventory model. (English summary) **2005g:90008**
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Liu, Ke[1] (*with* Li, Jing-An; Lai, Kin Keung) Single period, single product newsvendor model with random supply shock. (English summary) **2005a:90013**
— *see also* **Li, Jing-An et al., 2005e:90004**
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Lu, Yingdong (*with* Song, Jing-Sheng) Order-based cost optimization in assemble-to-order systems. (English summary)
Mahapatra, Nirmal Kumar (*with* Maiti, Manoranjan) Inventory model for breakable items with uncertain setup time. (English summary)
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Mak, K. L. (*with* Lai, Kin Keung; Ng, Jonathan Wing-Cheong; Yiu, K. F. C.) Analysis of optimal opportunistic replenishment policies for inventory systems by using a (s, S) model with a maximum issue quantity restriction. (English summary) **2005k:90006**
Mandal, Nirmal Kumar (*with* Roy, Tapan Kumar[1]; Maiti, Manoranjan) Multi-objective fuzzy inventory model with three constraints: a geometric programming approach. (English summary)
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Minner, Stefan *see* **Silver, Edward A., 2005f:90013**
Mishra, Sant Sharan (*with* Pandey, Himanshu; Singh, Radhey S.) A fuzzified deteriorating inventory model with breakdown of machine and shortage cost. (English summary)
Moon, Ilkyeong (*with* Giri, Bibhas Chandra; Ko, Byungsung) Economic order quantity models for ameliorating/deteriorating items under inflation and time discounting. (English summary)
— (*with* Cha, Byung-Chul) A continuous review inventory model with the controllable production rate of the manufacturer. (English summary) **2005i:90005**
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— *see also* **Chuang, Bor-Ren et al.**
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— *see also* **Gallego, Guillermo, 2005j:90002**
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Panwar, Manjusha *see* **Ganguly, Ashok**
Parker, Rodney P. (*with* Kapuscinski, Roman) Optimal policies for a capacitated two-echelon inventory system. (English summary)
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— *see also* **Nahmias, Steven et al., 2005k:90007**
Petinis, V. V. (*with* Tarantilis, C. D.; Kiranoudis, C. T.) Warehouse sizing and inventory scheduling for multiple stock-keeping products. (English summary)
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Pujawan, I Nyoman The effect of lot sizing rules on order variability. (English summary)
Rahim, M. A. (*with* Ohta, Hiroshi[1]) An integrated economic model for inventory and quality control problems. (English summary)
Ramaswamy, Kizhanatham V. (*with* Smith, Marion Spokony) Impact of processing time and related costs on optimal lot sizing in manufacturing. (English summary)
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Rasmussen, Henning *see* **Anderson, C. K. et al., 2005a:90007**
Reyes, Pedro M. A mathematical example of the two-echelon inventory model with asymmetric market information. (English summary)
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Roy, Tapan Kumar[1] *see* **Das, Kalyanbrata et al., 2005e:90002** *and* **Mandal, Nirmal Kumar et al.**
van Ryzin, Garrett J. (*with* Vulcano, Gustavo) Optimal auctioning and ordering in an infinite horizon inventory-pricing system. (English summary) **2005a:90014**
Samanta, G. P. (*with* Roy, Ajanta) A deterministic inventory model of deteriorating items with two rates of production and shortages. (English summary)
Schorr, Benno *see* **Krever, Maarten et al., 2005g:90007**
Scott, Carlton H. (*with* Jefferson, Thomas R.; Jorjani, Soheila) Duals for classical inventory models via generalized geometric programming. (English summary) **2005g:90009**
Sedeño-Noda, Antonio (*with* Gutiérrez, José Miguel; Abdul-Jalbar, B.; Sicilia Rodríguez, J.) An $O(T \log T)$ algorithm for the dynamic lot size problem with limited storage and linear costs. (English summary) **2005d:90010**
Sethi, Suresh P. *see* **Feng, Q. et al., 2005m:90006**
Shah, Nita H. Probabilistic order level system when items in inventory deteriorate and delay in payments is permissible. (English summary) **2005f:90012**
Shanthikumar, J. George *see* **Liyanage, Liwan H., 2005k:90005**
Sharma, Dinesh K. (*with* Ghosh, Debasis; Mattison, Dorothy M.) Finding economic order quantities with nonlinear goal programming. (English summary)
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Antonio et al., 2005d:90010
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Singh, Radhey S. *see* **Mishra, Sant Sharan et al.**
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Smits, Sanne R. *see* **Kiesmüller, Gudrun P. et al., 2005d:90008**
Song, Hai Tao (*with* Lin, Zheng Hua) A newsboy problem with reduced-price selling. (Chinese. English and Chinese summaries)
— A newsboy problem with two-time ordering. (Chinese. English and Chinese summaries)
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Su, Xin (*with* Lin, Zheng Hua; Yang, Li[5]) A newsboy model with budget cost constraints. (Chinese. English and Chinese summaries)
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Sun, Daning Existence and properties of optimal production and inventory policies. (English summary) **2005f:90014**
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Teng, Jinn-Tsair (*with* Chang, Chun-Tao) Economic production quantity models for deteriorating items with price- and stock-dependent demand. (English summary)
— (*with* Chern, Maw-Sheng; Chan, Ya-Lan) Deterministic inventory lot-size models with shortages for fluctuating demand and unit purchase cost. (English summary)
— *see also* **Chang, Chun-Tao, 2005k:90003** *and* **Chern, Maw-Sheng et al.**
Thonemann, Ulrich W. *see* **Kleinau, Peer, 2005d:90009**
Tibben-Lembke, Ronald S. (*with* Bassok, Yehuda) An inventory model for delayed customization: a hybrid approach. (English summary)
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Vaughan, Timothy S. Failure replacement and preventive maintenance spare parts ordering policy. (English summary)
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Yao, Ming-Jong (*with* Chiou, Chuang-Chun) On a replenishment coordination model in an integrated supply chain with one vendor and multiple buyers. (English summary) **2005b:90013**
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Zequeira, Rómulo I. (*with* Durán, Alfonso; Gutiérrez, Gil) A mixed inventory model with variable lead time and random back-order rate. (English summary)
Zhang, Dan[5] (*with* Cooper, William L.) Revenue management for parallel flights with customer-choice behavior. (English summary)
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Atamtürk, Alper (*with* Muñoz, Juan Carlos) A study of the lot-sizing polytope. (English summary) **2005b:90165**
Axsäter, Sven Planning order releases for an assembly system with random operation times. (English summary)
Benhadid, Yacine *see* **Bounkhel, Messaoud et al., 2005h:49093**
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Berman, Oded (*with* Kim, Eungab) Dynamic inventory strategies for profit maximization in a service facility with stochastic service, demand and lead time. (English summary) **2005h:90151**
Bish, Ebru K. (*with* Wang, Qiong) Optimal investment strategies for flexible resources, considering pricing and correlated demands. (English summary) **2005g:91127**
Blanchini, Franco (*with* Miani, Stefano; Rinaldi, Franca) Guaranteed cost control for multi-inventory systems with uncertain demand. (English summary) **2005m:93159**
Bounkhel, Messaoud (*with* Tadj, Lotfi; Benhadid, Yacine) Optimal control of a production system with inventory-level-dependent demand. (English summary) **2005h:49093**
Boxma, Onno J. (*with* Kaspi, Haya; Kella, Offer; Perry, David) On/off storage systems with state-dependent input, output, and switching rates. (English summary) **2005i:60189**
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Chiu, Singa Wang (*with* Gong, Dah-Chuan; Wee, Hui-Ming) Effects of random defective rate and imperfect rework process on economic production quantity model. (English summary)
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Dye, Chung-Yuan A note on: "An EOQ model for items with Weibull distributed deterioration, shortages and power demand pattern" [Internat. J. Inform. Management Sci. **13** (2002), no. 2, 19–34; MR1902084 (2003d:90024)] by W.-C. Lee and J.-W. Wu. (English summary) **2005b:90032**
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Giannetti, Antoine (*with* Zhong, Rui; Wu, Lixin[2]) Inventory hedging and option market making. (English summary)
Giri, Bibhas Chandra (*with* Yun, W. Y.; Dohi, T.) Optimal design of unreliable production-inventory systems with variable production rate. (English summary)
— (*with* Yun, W. Y.; Dohi, T.) Optimal lot sizing in an unreliable two-stage serial production-inventory system. (English summary)
Gong, Dah-Chuan *see* **Chiu, Singa Wang et al.**
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Hennet, Jean-Claude A bimodal scheme for multi-stage production and inventory control. (English summary) **2005k:90025**
van den Heuvel, Wilco (*with* Wagelmans, Albert P. M.) A comparison of methods for lot-sizing in a rolling horizon environment. (English summary)
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Koukoumialos, Stelios (*with* Liberopoulos, George) An analytical method for the performance evaluation of echelon kanban control systems. (English summary)
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Li, Jingshan (*with* Enginarlar, Emre; Meerkov, Semyon M.) Random demand satisfaction in unreliable production-inventory-customer systems. (English summary) **2005d:90041**
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Mannersalo, Petteri (*with* Norros, Ilkka; Salminen, Paavo) A storage process with local time input. (English summary) **2005e:60228**
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Song, Yuyue (*with* Lau, Hoong Chuin) A periodic-review inventory model with application to the continuous-review obsolescence problem. (English summary) **2005e:90029**
Spanjers, Lieneke (*with* van Ommeren, Jan-Kees C. W.; Zijm, W. H. M.) Closed loop two-echelon repairable item systems. (English summary)
Steindl, A. (*with* Feichtinger, Gustav) Bifurcations to periodic solutions in a production/inventory model. (English summary) **2005m:34098**
Sucky, Eric Coordinated order and production policies in supply chains. (English summary) **2005c:90008**
Sule, V. R. (*with* Rogers, Eric) A behavioral approach to the control of discrete linear repetitive processes. (English summary) **2005c:93085**
Tadj, Lotfi *see* **Bounkhel, Messaoud et al., 2005h:49093**
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Teng, Jinn-Tsair (*with* Ouyang, Liang-Yuh; Cheng, Mei-Chuan) An EOQ model for deteriorating items with power-form stock-dependent demand. (English summary) **2005i:90015**
Thonemann, Ulrich W. *see* **Zhu, Kaijie**, **2005b:62223**
Tijs, S. H. (*with* Meca-Martínez, Ana; López, Marco A.) Benefit sharing in holding situations. (English summary) **2005g:91129**
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Varghese, T. V. (*with* Krishnamoorthy, A.) Inventory system subject to disaster with general interarrival times. (English summary) **2005g:60139**
Verweij, Bram (*with* Wolsey, Laurence A.) Uncapacitated lot-sizing with buying, sales and backlogging. (English summary) **2005b:90022**
Vishwanadham, N. *see* **Benjaafar, Saif et al.**, **2005b:90035**
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Wang, Qiong *see* **Bish, Ebru K.**, **2005g:91127**
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Wijngaard, J. The effect of foreknowledge of demand in case of a restricted capacity: the single-stage, single-product case. (English summary) **2005a:90050**
Wolsey, Laurence A. *see* **Verweij, Bram**, **2005b:90022**
Wong, Hartanto (*with* Cattrysse, Dirk; Van Oudheusden, Dirk) Inventory pooling of repairable spare parts with non-zero lateral transshipment time and delayed lateral transshipments. (English summary)
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Wu, Lixin[2] *see* **Giannetti, Antoine et al.**
Xia, Yusen *see* **Yang, Jian[4] et al.**, **2005k:90027**
Xiong, Guangyu (*with* Koivisto, Hannu) Research on fuzzy inventory control under supply chain management environment. (English summary) (*see* **2005c:00015**)
Yang, Jian[4] (*with* Qi, Xiangtong; Xia, Yusen) A production-inventory system with Markovian capacity and outsourcing option. (English summary) **2005k:90027**
Yıldırım, Işıl (*with* Tan, Barış; Karaesmen, Fikri) A multiperiod stochastic production planning and sourcing problem with service level constraints. (English summary)
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Zequeira, Rômulo I. (*with* Bérenguer, C.) Optimal inspection policies with predictive and preventive maintenance. (English summary)
Zhong, Rui *see* **Giannetti, Antoine et al.**
Zhu, Kaijie (*with* Thonemann, Ulrich W.) An adaptive forecasting algorithm and inventory policy for products with short life cycles. (English summary) **2005b:62223**
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Abbas-Turki, A. (*with* Bouyekhf, R.; Grunder, O.; El Moudni, A.) On the line planning problems of the hub public-transportation networks. (English summary)
Al-Mutairi, Dhaifalla K. (*with* Soland, Richard M.) Attrition through a partially coordinated area defense. (English summary) **2005g:90010**
Amirteimoori, Alireza (*with* Kordrostami, Sohrab) Efficient surfaces and an efficiency index in DEA: a constant returns to scale. (English summary)
— (*with* Kordrostami, Sohrab) DEA-like models for multi-component performance measurement. (English summary)
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Babel, Luitpold (*with* Kellerer, Hans[2]) Design of tariff zones in public transportation networks: theoretical results and heuristics. (English summary) **2005e:90007**
Baldacci, Roberto (*with* Hadjiconstantinou, E.; Mingozzi, Aristide) An exact algorithm for the capacitated vehicle routing problem based on a two-commodity network flow formulation. (English summary)
Barceló, Jaime *see* **Codina, Esteve**, **2005a:90015**
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Berger, Jean (*with* Barkaoui, Mohamed) A parallel hybrid genetic algorithm for the vehicle routing problem with time windows. (English summary)
Bertazzi, Luca (*with* Speranza, Maria Grazia) Improved rounding procedures for the discrete version of the capacitated EOQ problem. (English summary)
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Bragen, M. J. *see* **Howard, D. L. et al.**
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Dridi, Mahjoub (*with* Kacem, Imed) A hybrid approach for scheduling transportation networks. (English summary)
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Han, Sangheon (*with* Tabata, Yoshio) A hybrid genetic algorithm for solving a capacity constrained truckload transportation with crashed customer. (English summary) (*see* **2005b:90008**)
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Herrero, Ines Different approaches to efficiency analysis. An application to the Spanish trawl fleet operating in Moroccan waters. (English summary)
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Howard, D. L. (*with* Bragen, M. J.; Burke, J. F., Jr.; Love, R. J.) PORTSIM 5: modeling from a seaport level. (English summary)
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Kellerer, Hans[2] *see* **Babel, Luitpold**, **2005e:90007**
Keon, Neil (*with* Anandalingam, G.) A new pricing model for competitive telecommunications services using congestion discounts. (English summary)
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Krometis, J. *see* **Schmittmann, B. et al.**, **2005m:90009**
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Levine, Erel (*with* Ziv, G.; Gray, Lawrence F.; Mukamel, D.) Phase transitions in traffic models. (English summary) **2005g:90011**
— (*with* Ziv, G.; Gray, Lawrence F.; Mukamel, D.) Traffic jams and ordering far from thermal equilibrium. (English summary)
Liu, Yong (*with* Simaan, Marwan A.; Cruz, Jose B., Jr.) An application of dynamic Nash task assignment strategies to multi-team military air operations. (English summary)
Love, R. J. *see* **Howard, D. L. et al.**
Martineau, Patrick[2] *see* **Soukhal, A. et al.**, **2005e:90008**
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Pashkevich, M. A. The bias of the maximum likelihood estimator for the beta-logistic model with additive stochastic distortions. (Russian. English and Russian summaries)
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Verity-Harrison, S. A. *see* **Chardaire, P. et al.**
Wang, Jinting (*with* Srinivasan, Rengarajan) Unreliable production-inventory systems with hyper-exponential renewal demand processes. (English summary)
Wang, Tong[1] *see* **Chen, Frank Y. et al.**
Wee, Hui-Ming (*with* Yang, Po-Chung) The optimal and heuristic solutions of a distribution network. (English summary) **2005b:90016**
Wu, S. David (*with* Golbasi, Hakan) Multi-item, multi-facility supply chain planning: models, complexities, and algorithms. (English summary) **2005h:90012**
Xia, Qinglan Interior regularity of optimal transport paths. (English summary) **2005a:90017**
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Yang, Hsu-Hao (*with* Chen, Yen-Liang) The first K shortest unique-arc walks in a traffic-light network. (English summary) **2005h:90013**
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Agnetis, Alessandro (*with* Rossi, Fabrizio; Smriglio, Stefano) An implicit enumeration scheme for the batch selection problem. (English summary) **2005e:90163**
Arora, Sanjeev (*with* Karakostas, George) Approximation schemes for minimum latency problems. (English summary) **2005a:68234**
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Bai, Lihui (*with* Hearn, Donald W.; Lawphongpanich, Siriphong) Decomposition techniques for the minimum toll revenue problem. (English summary) **2005b:90017**
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Brandes, Ulrik (*with* Schulz, Frank; Wagner, Dorothea; Willhalm, Thomas) Generating node coordinates for shortest-path computations in transportation networks. (English summary) **2005h:90015**
Braxmeier, Hans (*with* Schmidt, Volker[1]; Spodarev, Eugene) Spatial extrapolation of anisotropic road traffic data. (English summary)
Brenier, Yann Extension of the Monge-Kantorovich theory to classical electrodynamics. (English summary) **2005c:49077**
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Buslaev, A. P. (*with* Tatashev, A. G.; Yashina, M. V.) On the properties of solutions of a class of systems of nonlinear differential equations on graphs. (Russian. Russian summary) **2005k:34111**
Bussieck, Michael R. (*with* Lindner, Thomas; Lübbecke, Marco E.) A fast algorithm for near cost optimal line plans. (English summary) **2005a:90108**
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Chu, Hong Sheng (*with* Suo, Han Sheng; Wang, Jing Chun; Jin, Yi Hui) Supply chain coordination with competition between multiple risk aversion retailers. (Chinese. English and Chinese summaries) **2005g:91064**
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Huang, Huei Chuen (*with* Chew, Ek Peng; Goh, K. H.) A two-echelon inventory system with transportation capacity constraint. (English summary)
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Hwang, Il-Sun (*with* Lee, Myungsun; Yoo, Ki-sung; Chung, Jin-wook) New mobility scheme for reducing location traffic in mobile networks. (English summary) **2005h:90021**
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Kiesmüller, Gudrun P. (*with* de Kok, A. G.; Smits, Sanne R.; van Laarhoven, Peter J. M.) Evaluation of divergent N-echelon (s, nQ)-policies under compound renewal demand. (English summary) **2005d:90008**
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Pankratz, Giselher A grouping genetic algorithm for the pickup and delivery problem with time windows. (English summary) **2005f:90145**
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Rousseau, Louis-Martin (*with* Gendreau, Michel; Pesant, Gilles; Focacci, Filippo) Solving VRPTWs with constraint programming based column generation. (English summary) **2005f:90076**
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Items listed otherwise than by author

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Wilson, Glenn) Base station location and channel allocation in a cellular network with emergency coverage requirements. (English summary)

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Alpcan, Tansu (*with* Başar, Tamer) Distributed algorithms for Nash equilibria of flow control games. (English summary) **2005h:90014**

Àlvarez, Carme (*with* Blesa, M.; Díaz, Josep; Serna, Maria José; Fernández, Antonio[1]) Adversarial models for priority-based networks. (English summary) **2005g:90012**

Ambrosino, Daniela (*with* Scutellà, Maria Grazia) Distribution network design: new problems and related models. (English summary) **2005j:90003**

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Avella, Pasquale (*with* Mattia, Sara; Sassano, Antonio) Metric inequalities and the network loading problem. (English summary) **2005m:90010**

Babich, O. A. (*with* Pershin, O. Yu.; Mushtonin, A. V.) A method for the design of a hierarchical network of field pipelines, based on the solution of a sequence of extremal problems. (Russian. Russian summary) **2005d:90011**

Bai, Lihui (*with* Hearn, Donald W.; Lawphongpanich, Siriphong) Decomposition techniques for the minimum toll revenue problem. (English summary) **2005b:90017**

Baier, Georg (*with* Köhler, Ekkehard; Skutella, Martin) On the k-splittable flow problem. (English summary) (*see* **2005c:68002**)

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Bruni, C. (*with* Scoglio, C.; Vergari, S.) Path capacity dimensioning in a multiprotocol label switched network: analysis of optimal and suboptimal solutions. (English summary) **2005c:90009**

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— (*with* Mydlarz, Marcelo; Shepherd, F. Bruce) Multicommodity demand flow in a tree (extended abstract). (English summary) (*see* **2005b:68008**)

Chen, Jiangzhuo (*with* Kleinberg, Robert D.; Lovász, László; Rajaraman, Rajmohan; Sundaram, Ravi; Vetta, Adrian) (Almost) tight bounds and existence theorems for confluent flows. (English summary) **2005i:90007**

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Pechinkin, Alexandre *see* **Bocharov, P. P. et al., 2005g:90016**
Pretolani, Daniele *see* **Nielsen, Lars Relund et al., 2005d:90018**
Rasteiro, D. D. M. L. (*with* Anjo, A. J. B.) Optimal paths in probabilistic networks. **2005h:90019**
Raviv, T. *see* **Alon, G. et al., 2005k:90010**

Ridder, Ad Importance sampling simulations of Markovian reliability systems using cross-entropy. (English summary) **2005k:90013**
Rubinstein, Reuven Y. *see* **Alon, G. et al., 2005k:90010**
Samorodnitsky, Gennady *see* **González-Arévalo, Bárbara, 2005b:90024**
Schaefer, Andrew J. *see* **Smith, J. Cole et al., 2005a:90021**
Shen, Zuo-Jun Max *see* **Shu, Jia et al.**
Shiina, Takayuki (*with* Watanabe, Isamu) Lagrangian relaxation method for price-based unit commitment problem. (English summary)
Shu, Jia (*with* Teo, Chung-Piaw; Shen, Zuo-Jun Max) Stochastic transportation-inventory network design problem. (English summary)
Smith, J. Cole (*with* Schaefer, Andrew J.; Yen, Joyce W.) A stochastic integer programming approach to solving a synchronous optical network ring design problem. (English summary) **2005a:90021**
Sukhov, Yu. M. (*with* Vvedenskaya, N. D.) Fast Jackson networks with dynamic routing. (Russian. Russian summary) **2005e:90012**
Teo, Chung-Piaw *see* **Shu, Jia et al.**
Théberge, François *see* **Likhanov, N. B. et al.**
Vvedenskaya, N. D. *see* **Sukhov, Yu. M., 2005e:90012**
Wang, Fang (*with* Hou, Chao Zhen) Evaluation of the reliability of a stochastic flow network using Monte Carlo method and the Petri net. (Chinese. English and Chinese summaries)
Watanabe, Isamu *see* **Shiina, Takayuki**
Woodruff, David L. *see* **Held, Harald et al.**
Yazici-Pekergin, Nihal *see* **Fourneau, J. M. et al.**
Yen, Joyce W. *see* **Smith, J. Cole et al., 2005a:90021**
Zazanis, Michael A. Cycle times in single server cyclic Jackson networks. (English summary) **2005a:90022**
Zhu, De-tong A trust region algorithm via bilevel linear programming for solving the general multicommodity minimal cost flow problems. (English summary) **2005g:90018**

Items with secondary classifications in 90B15

Ata, Barış (*with* Kumar, Sunil[1]) Heavy traffic analysis of open processing networks with complete resource pooling: asymptotic optimality of discrete review policies. (English summary) **2005k:60283**
Baccelli, François (*with* Foss, S. G.) Moments and tails in monotone-separable stochastic networks. (English summary) **2005c:60122**
Battocchio, Paolo (*with* Menoncin, Francesco) Optimal pension management in a stochastic framework. (English summary) **2005g:91092**
Beraldi, Patrizia *see* **Triki, Chefi et al.**
Berman, Oded (*with* Wang, Jiamin) Probabilistic location problems with discrete demand weights. (English summary) **2005b:90061**
Bocharov, P. P. (*with* Vishnevskiĭ, V. M.) *G*-networks: development of the theory of multiplicative networks. (Russian. Russian summary) **2005f:60195**
Borkovec, Milan (*with* Dasgupta, Amites[1]; Resnick, Sidney I.; Samorodnitsky, Gennady) A single channel on/off model with TCP-like control. (English summary) **2005a:60146**
Buckley, Pierce G. (*with* Osthus, Deryk) Popularity based random graph models leading to a scale-free degree sequence. (English summary) **2005b:05198**
Carayol, Nicolas (*with* Roux, Pascale) Behavioral foundations and equilibrium notions for social network formation processes. (English summary) **2005e:91135**
Cassandras, Christos G. *see* **Sun, Gang[1] et al., 2005h:93105**
Chatterjee, Kalyan (*with* Xu, Susan H.) Technology diffusion by learning from neighbours. (English summary) **2005d:91016**
Chen, Mu-Chen *see* **Yang, Taho et al.**
Chen, Pangwei *see* **Yang, Taho et al.**
Chung, Fan (*with* Lu, Linyuan) The average distance in a random graph with given expected degrees. (English summary) **2005e:05122**
Cohen, Izack (*with* Golany, Boaz; Shtub, Avraham) Managing stochastic, finite capacity, multi-project systems through the cross-entropy methodology. (English summary) **2005k:90057**
Dasgupta, Amites[1] *see* **Borkovec, Milan et al., 2005a:60146**
Feldman, R. M. *see* **Matis, T. I.**
Foss, S. G. *see* **Baccelli, François, 2005c:60122**
Gentili, M. (*with* Mirchandani, P. B.) Locating active sensors on traffic networks. (English summary)
Golany, Boaz *see* **Cohen, Izack et al., 2005k:90057**
(Graves, Robert J.) *see* **Subbu, Raj, 2005a:90004**
Gross, George *see* **Triki, Chefi et al.**
Hassin, Refael (*with* Levin, Asaf) Synthesis of 2-commodity flow networks. (English summary) **2005b:68286**
Heikkinen, Tiina (*with* Prékopa, András) Optimal power control in a wireless network using a model with stochastic link coefficients. (English summary) **2005j:90051**
Iordănescu, Anca Timing analysis of the handover algorithm in wireless Bluetooth networks. (English summary)
Kelly, F. P. (*with* Williams, Ruth J.) Fluid model for a network operating under a fair bandwidth-sharing policy. (English summary) **2005g:60157**
Kivinen, Jyrki (*with* Smola, Alexander J.; Williamson, Robert C.) Online learning with kernels. (English summary)
Konstantopoulos, Takis (*with* Last, Günter; Lin, Si-Jian) On a class of Lévy stochastic networks. (English summary) **2005i:60091**
Kotsyuruba, P. I. (*with* Nazarov, A. A.) Local diffusion approximation of the state changing process of an unstable random access network in a neighborhood of the asymptotic mean. (Russian. Russian summary) **2005g:68004**
Kumar, Sunil[1] *see* **Ata, Barış, 2005k:60283**
Langville, Amy N. (*with* Stewart, William J.) A Kronecker product approximate preconditioner for SANs. (English summary) **2005k:65068**
Last, Günter *see* **Konstantopoulos, Takis et al., 2005i:60091**
Lee, Dong Chun *see* **Na, Won Shik et al., (2005g:65009)**
Lee, Rong-Shean *see* **Yang, Taho et al.**
Levin, Asaf *see* **Hassin, Refael, 2005b:68286**
Lin, Si-Jian *see* **Konstantopoulos, Takis et al., 2005i:60091**
Lin, Yi-Kuei An algorithm to evaluate the system reliability for multicommodity case under cost constraint. (English summary) **2005g:90036**
Lu, Linyuan *see* **Chung, Fan, 2005e:05122**
Mandelbaum, Avishai (*with* Stolyar, A. L.) Scheduling flexible servers with convex delay costs: heavy-traffic optimality of the generalized $c\mu$-rule. (English summary) **2005f:90034**
Mandjes, Michel (*with* van Uitert, Miranda) Sample-path large deviations for tandem and priority queues with Gaussian inputs. (English summary) **2005k:60290**
Mateev, Plamen S. A model of communication system via random walk over simplex. (English summary) **2005i:60145**
Matis, T. I. (*with* Feldman, R. M.) Correction: "Transient analysis of state-dependent queueing networks via cumulant functions" [J. Appl. Probab. **38** (2001), no. 4, 841–859; MR1876543 (2002i:60172)]. **2005k:60290**
McDonald, David R. ★ Elements of applied probability for engineering, mathematics and systems science. **2005f:60002**
Menoncin, Francesco *see* **Battocchio, Paolo, 2005g:91092**
Mirchandani, P. B. *see* **Gentili, M.**
Na, Won Shik (*with* Lee, Dong Chun; Ryoo, In Tai) Efficient queuing management scheme with image/voice/data calls for reducing blocking rate in multimedia mobile networks. (English summary) (*see* **2005g:65009**)
Naor, Dora Passen *see* **Wierman, John C., 2005a:05200**
Nazarov, A. A. *see* **Kotsyuruba, P. I., 2005g:68004**
Osthus, Deryk *see* **Buckley, Pierce G., 2005b:05198**
Ou, Jian Ping (*with* Zhang, Fu Ji) Reliability of undirected de Bruijn networks. (Chinese. English and Chinese summaries) **2005k:68008**
Panayiotou, Christos G. *see* **Sun, Gang[1] et al., 2005h:93105**
Prékopa, András *see* **Heikkinen, Tiina, 2005j:90051**
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Riley, George F. *see* **Sun, Gang[1] et al., 2005h:93105**
Roux, Pascale *see* **Carayol, Nicolas, 2005e:91135**
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Smola, Alexander J. *see* **Kivinen, Jyrki et al.**
Stewart, William J. *see* **Langville, Amy N., 2005k:65068**
Stolyar, A. L. Control of end-to-end delay tails in a multiclass network: LWDF discipline optimality. (English summary) **2005g:60046**
— On the asymptotic optimality of the gradient scheduling algorithm for multiuser throughput allocation. (English summary) **2005k:90017**
— *see also* **Mandelbaum, Avishai, 2005f:90034**
Subbu, Raj (*with* Sanderson, Arthur C.) ★ Network-based distributed planning using coevolutionary algorithms. **2005a:90004**
Sun, Gang[1] (*with* Cassandras, Christos G.; Wardi, Yoraï; Panayiotou, Christos G.; Riley, George F.) Perturbation analysis and optimization of stochastic flow networks. (English summary) **2005h:93105**
Swift, Andrew W. Methods for assessing network reliability. (English summary) (*see* **2005a:62018**)
Triki, Chefi (*with* Beraldi, Patrizia; Gross, George) Optimal capacity allocation in multi-auction electricity markets under uncertainty. (English summary)
van Uitert, Miranda *see* **Mandjes, Michel, 2005k:60290**
Vishnevskiĭ, V. M. *see* **Bocharov, P. P., 2005f:60195**
Wang, Jiamin *see* **Berman, Oded, 2005b:90061**
Ward, James E. *see* **Zeng, Ting**
Wardi, Yoraï *see* **Sun, Gang[1] et al., 2005h:93105**
Wierman, John C. (*with* Naor, Dora Passen) Desirable properties of universal formulas for percolation thresholds. (English summary) **2005a:05200**
Williams, Ruth J. *see* **Kelly, F. P., 2005g:60157**
Williamson, Robert C. *see* **Kivinen, Jyrki et al.**
Xu, Susan H. *see* **Chatterjee, Kalyan, 2005d:91016**
Yang, Taho (*with* Lee, Rong-Shean; Chen, Mu-Chen; Chen, Pangwei) Queueing network model for a single-operator machine interference problem with external operations. (English summary)
Yang, Xiao Song An estimate of topological entropy of N-buffer fluid networks. (English summary) **2005h:37211**
Zeng, Ting (*with* Ward, James E.) The stochastic location-assignment problem on a tree. (English summary)
Zhang, Fu Ji *see* **Ou, Jian Ping, 2005k:68008**

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Akhmadi, M. B. Computation of a redundant ring in a hierarchical communication system. (English summary) **2005a:90023**
Altman, Eitan *see* **Boulogne, Thomas, 2005m:90016**
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Andrade, Rafael Castro de (*with* Lisser, A.; Maculan, Nelson; Plateau, Gérard) Telecommunication network capacity design for uncertain demand. (English summary)
Barahona, Francisco (*with* Kerivin, Hervé) Separation of partition inequalities with terminals. (English summary) **2005g:90019**
Beier, René (*with* Sanders, Peter; Sivadasan, Naveen) Energy optimal routing in radio networks using geometric data structures. (English summary) (*see* **2005a:68008**)
Berger, Ulrich Bill-and-keep vs. cost-based access pricing revisited. (English summary)
Biedl, Therese (*with* Demaine, Erik D.; Golynski, Alexander; Horton, Joseph D.; López-Ortiz, Alejandro; Poirier, Guillaume; Quimper, Claude-Guy) Optimal dynamic video-on-demand using adaptive broadcasting. (English summary) (*see* **2005c:68003**)
Bisaillon, Serge *see* **Galinier, Philippe et al.**
Björklund, Patrik (*with* Värbrand, Peter; Yuan, Di) Optimized planning of frequency hopping in cellular networks. (English summary)
Blum, Jeremy (*with* Ding, Min; Thaeler, Andrew; Cheng, Xiuzhen) Connected dominating set in sensor networks and MANETs. (*see* **2005h:90001**)

Bodlaender, Hans L. (*with* Broersma, H. J.; Fomin, Fedor V.; Pyatkin, Artem V.; Woeginger, Gerhard J.) Radio labeling with preassigned frequencies. (English summary) **2005h:90020**

Bogdanowicz, Z. (*with* Datta, Somdip) Analysis of backup route reoptimization algorithms for optical shared mesh networks. (English summary)

Bollapragada, Ramesh (*with* Camm, Jeffrey; Rao, Uday S.; Wu, Junying) A two-phase greedy algorithm to locate and allocate hubs for fixed-wireless broadband access. (English summary)

Boulogne, Thomas (*with* Altman, Eitan) Competitive routing in multicast communications. (English summary) **2005m:90016**

Broersma, H. J. *see* **Bodlaender, Hans L. et al., 2005h:90020**

Buche, Robert (*with* Kushner, Harold J.) Control of mobile communication systems with time-varying channels via stability methods. (English summary) **2005f:90019**

Çağlar, M. A long-range dependent workload model for packet data traffic. (English summary) **2005a:90024**

Camm, Jeffrey *see* **Bollapragada, Ramesh et al.**

Chao, Suryani (*with* Chinneck, John W.; Goubran, Rafik A.) Assigning service requests in voice-over-internet gateway multiprocessors. (English summary)

Cheng, Xiuzhen *see* **Blum, Jeremy et al., (2005h:90001)**

Cheung, K. W. (*with* So, Hing Cheung) A multidimensional scaling framework for mobile location using time-of-arrival measurements. (English summary)

Chinneck, John W. *see* **Chao, Suryani et al.**

Cho, Young Joo *see* **Lee, Chae Y. et al., 2005b:90025**

Choo, Hyunseung (*with* Mun, Youngsong) Improving the performance of multistage interconnection networks under nonuniform traffic pattern on shorter cycles. (English summary) (*see* **2005g:00014**)

Chung, Jin-wook *see* **Hwang, Il-Sun et al., 2005h:90021**

Datta, Amitava (*with* Zomaya, Albert Y.) New energy-efficient permutation routing protocol for single-hop radio networks. (English summary) (*see* **2005a:68012**)

Datta, Somdip *see* **Bogdanowicz, Z.**

De Giovanni, Luigi (*with* Della Croce, F.; Tadei, Roberto) On the impact of the solution representation for the internet protocol network design problem with max-hop constraints. (English summary)

Della Croce, F. *see* **De Giovanni, Luigi et al.**

Demaine, Erik D. *see* **Biedl, Therese et al., (2005c:68003)**

Ding, Min *see* **Blum, Jeremy et al., (2005h:90001)**

Dupont, Audrey (*with* Alvernhe, Eric; Vasquez, Michel) Efficient filtering and Tabu search on a consistent neighbourhood for the frequency assignment problem with polarisation. (English summary)

Elia, Nicola When Bode meets Shannon: control-oriented feedback communication schemes. (English summary) **2005d:90019**

Erlebach, Thomas (*with* Pagourtzis, Aris; Potika, Katerina; Stefanakos, Stamatis) Resource allocation problems in multifiber WDM tree networks. (English summary) **2005d:90020**

Fax, J. Alexander (*with* Murray, Richard M.) Information flow and cooperative control of vehicle formations. (English summary) **2005e:90013**

Fomin, Fedor V. *see* **Bodlaender, Hans L. et al., 2005h:90020**

Galinier, Philippe (*with* Gendreau, Michel; Soriano, Patrick; Bisaillon, Serge) Solving the frequency assignment problem with polarization by local search and tabu. (English summary)

Gendreau, Michel *see* **Galinier, Philippe et al.**

Golynski, Alexander *see* **Biedl, Therese et al., (2005c:68003)**

Goubran, Rafik A. *see* **Chao, Suryani et al.**

Gu, Ming *see* **He, Fei et al., 2005g:90020**

He, Fei (*with* Gu, Ming; Sun, Jia Guang; Song, Xiaoyu) A stochastic model for cell assignments in PCS networks. (English summary) **2005g:90020**

Heikkinen, Tiina Power allocation in a wireless network using scheduling and stochastic programming with penalty functions. (English summary) **2005f:90020**

Horton, Joseph D. *see* **Biedl, Therese et al., (2005c:68003)**

Hwang, Il-Sun (*with* Lee, Myungsun; Yoo, Ki-sung; Chung, Jin-wook) New mobility scheme for reducing location traffic in mobile networks. (English summary) **2005h:90021**

Iordănescu, Anca Timing analysis of the handover algorithm in wireless Bluetooth networks. (English summary)

Johari, Ramesh (*with* Tsitsiklis, John N.) Efficiency loss in a newtork resource allocation game. (English summary) **2005e:90014**

Jurdziński, Tomasz (*with* Kutyłowski, Mirosław; Zatopiański, Jan) Energy-efficient size approximation of radio networks with no collision detection. (English summary) (*see* **2005a:68012**)

Kaneko, Yoshihiro (*with* Ogata, Tsuyoshi) On locating sources of minimum cost file transfer. (English summary) **2005i:90010**

Karagiannopoulos, M. G. (*with* Vrahatis, M. N.; Meletiou, G. C.) A note on a secure voting system on a public network. (English summary) **2005a:90025**

Kerivin, Hervé *see* **Barahona, Francisco, 2005g:90019**

Kim, HyunSook *see* **Lee, SuKyoung[1] et al., (2005g:00014)**

Kushner, Harold J. *see* **Buche, Robert, 2005f:90019**

Kutyłowski, Mirosław *see* **Jurdziński, Tomasz et al., (2005a:68012)**

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Lee, Chae Y. (*with* Moon, Young P.; Cho, Young Joo) A lexicographically fair allocation of discrete bandwidth for multirate multicast traffics. (English summary) **2005b:90025**

Lee, Myungsun *see* **Hwang, Il-Sun et al., 2005h:90021**

Lee, Sangwook *see* **Park, Chan-Kyoo et al.**

Lee, SuKyoung[1] (*with* Sriram, Kotikalapudi; Kim, HyunSook; Song, JooSeok) Performance improvement of deflection routing in optical burst switching networks. (English summary) (*see* **2005g:00014**)

Li, Guo Jun[1] *see* **Zhang, Shao-qiang et al., 2005f:90022**

Liang, Weifa *see* **Wan, Ying-Yu**

Lisser, A. *see* **Andrade, Rafael Castro de et al.**

Liu, Ding[1] (*with* Prabhakaran, Manoj) On randomized broadcasting and gossiping in radio networks. (English summary) (*see* **2005a:68012**)

López-Ortiz, Alejandro *see* **Biedl, Therese et al., (2005c:68003)**

Luss, Hanan (*with* Wong, Richard T.) Graceful reassignment of excessively long communications paths in networks. (English summary) **2005f:90021**

Maculan, Nelson *see* **Andrade, Rafael Castro de et al.**

Malyshev, V. A. (*with* Pirogov, S. A.; Rybko, A. N.) Random walks and chemical networks. (English and Russian summaries) **2005g:90021**

Masuda, Yasushi *see* **Matsubayashi, Nobuo et al., 2005d:90021**

Matsubayashi, Nobuo (*with* Umezawa, Masashi; Masuda, Yasushi; Nishino, Hisakazu) A cost allocation problem arising in hub-spoke network systems. (English summary) **2005d:90021**

Maurras, Jean François (*with* Vanier, Sonia) Network synthesis under survivability constraints. (English summary) **2005c:90014**

Meletiou, G. C. *see* **Karagiannopoulos, M. G. et al., 2005a:90025**

Melián, Belén (*with* Laguna, Manuel; Moreno-Pérez, José A.) Minimizing the cost of placing and sizing wavelength division multiplexing and optical crossconnect equipment in a telecommunications network. (English summary)

Mitter, Sanjoy K. *see* **Tatikonda, Sekhar, 2005c:90015**

Moon, Young P. *see* **Lee, Chae Y. et al., 2005b:90025**

Moreno-Pérez, José A. *see* **Melián, Belén et al.**

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Özbay, Hitay *see* **Quet, Pierre-François, 2005a:90026**

Pagourtzis, Aris *see* **Erlebach, Thomas et al., 2005d:90020**

Park, Chan-Kyoo (*with* Lee, Sangwook; Park, Soondal) A label-setting algorithm for finding a quickest path. (English summary)

Park, Soondal *see* **Park, Chan-Kyoo et al.**

Pavel, Lacra Dynamics and stability in optical communication networks: a system theory framework. (English summary)

Piqueira, J. R. C. (*with* Takada, E. Y.) Processing and transmission of timing signals in synchronous networks. (English summary)

Pirogov, S. A. *see* **Malyshev, V. A. et al., 2005g:90021**

Plateau, Gérard *see* **Andrade, Rafael Castro de et al.**

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Purkayastha, Punyaslok *see* **Sharma, Vinod, 2005g:90022**

Pyatkin, Artem V. *see* **Bodlaender, Hans L. et al., 2005h:90020**

Quet, Pierre-François (*with* Özbay, Hitay) On the design of AQM supporting TCP flows using robust control theory. (English summary) **2005a:90026**

Quimper, Claude-Guy *see* **Biedl, Therese et al., (2005c:68003)**

Rao, Uday S. *see* **Bollapragada, Ramesh et al.**

Ren, Guang *see* **Wang, Zhi Ping[2], 2005a:90028**

Rybko, A. N. *see* **Malyshev, V. A. et al., 2005g:90021**

Sanders, Peter *see* **Beier, René et al., (2005a:68008)**

Sharma, Vinod (*with* Purkayastha, Punyaslok) Stability and analysis of TCP connections with RED control and exogenous traffic. (English summary) 2005g:90022

Sivadasan, Naveen *see* **Beier, René et al., (2005a:68008)**

So, Hing Cheung *see* **Cheung, K. W.**

Song, JooSeok *see* **Lee, SuKyoung[1] et al., (2005g:00014)**

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Soriano, Patrick *see* **Galinier, Philippe et al.**

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Stefanakos, Stamatis *see* **Erlebach, Thomas et al., 2005d:90020**

Stidham, Shaler, Jr. Pricing and congestion management in a network with heterogeneous users. (English summary) **2005a:90027**

Sukhov, Yu. M. *see* **Vvedenskaya, N. D., 2005g:90023**

Sun, Jia Guang *see* **He, Fei et al., 2005g:90020**

Tadei, Roberto *see* **De Giovanni, Luigi et al.**

Takada, E. Y. *see* **Piqueira, J. R. C.**

Tatikonda, Sekhar (*with* Mitter, Sanjoy K.) Control over noisy channels. (English summary) **2005c:90015**

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Tsitsiklis, John N. *see* **Johari, Ramesh, 2005e:90014**

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Vrahatis, M. N. *see* **Karagiannopoulos, M. G. et al., 2005a:90025**

Vvedenskaya, N. D. (*with* Sukhov, Yu. M.) Functional equations that arise in asymptotic problems for communication networks. (Russian. Russian summary) **2005g:90023**

Wan, Ying-Yu (*with* Liang, Weifa) On the minimum number of wavelengths in multicast trees in WDM networks. (English summary)

Wang, Xiao Li[2] *see* **Zhang, Shao-qiang et al., 2005f:90022**

Wang, Zhi Ping[2] (*with* Ren, Guang) A new parameter of studying the fault tolerance measure of communication networks—a survey of vertex tenacity theory. (Chinese. English and Chinese summaries) **2005a:90028**

Woeginger, Gerhard J. *see* **Bodlaender, Hans L. et al., 2005h:90020**

Wong, Richard T. *see* **Luss, Hanan, 2005f:90021**

Wu, Junying *see* **Bollapragada, Ramesh et al.**

Wu, Yong An (*with* Xie, Zheng) Optimum set of source in f-mode in broadcast network. (Chinese. English and Chinese summaries)

Xie, Zheng *see* **Wu, Yong An**

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Yuan, Di *see* **Björklund, Patrik et al.**

Zatopiański, Jan *see* **Jurdziński, Tomasz et al., (2005a:68012)**

Zhang, Feng Xia Chaotic private communication based on observer design method. (Chinese. English and Chinese summaries)

Zhang, Shao-qiang (*with* Wang, Xiao Li[2]; Li, Guo Jun[1]) A linear time algorithm for minimum-weight feedback vertex set problem in outerplanar graphs. (English and

Chinese summaries) **2005f:90022**
Zomaya, Albert Y. *see* **Datta, Amitava**, (**2005a:68012**)

Items with secondary classifications in 90B18

Abdallah, Chaouki T. *see* **Advances in communication control networks**, **2005g:93003**; **Dhakal, Sagar et al.**, (**2005g:93003**) *and* **Bengea, Sorin C. et al.**, (**2005g:93003**)
Adamy, Udo (*with* Ambuehl, Christoph; Anand, R. Sai; Erlebach, Thomas) Call control in rings. (English summary) (*see* **2005a:68008**)
Ageev, A. A. (*with* Fishkin, Aleksei V.; Kononov, Aleksandr Veniaminovich; Sevast′yanov, S. V.) Open block scheduling in optical communication networks. (English summary) (*see* **2005c:68005**)
Agnetis, Alessandro *see* **Detti, Paolo et al.**, **2005m:90032**
Agrawal, Rajeev (*with* Baccelli, François; Rajan, Rajendran) An algebra for queueing networks with time-varying service and its application to the analysis of integrated service networks. (English summary) **2005h:60268**
Ahmed, N. U. (*with* Li, Cheng[2]) Optimum feedback strategy for access control mechanism modelled as stochastic differential equation in computer network. (English summary) **2005g:93077**
Akella, Mohan R. (*with* Batta, Rajan; Delmelle, Eric M.; Rogerson, Peter A.; Blatt, Alan; Wilson, Glenn) Base station location and channel allocation in a cellular network with emergency coverage requirements. (English summary)
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Antsaklis, Panos J. (*with* Baillieul, John) Guest editorial. Special issue on networked control systems.
Arbib, Claudio (*with* Smriglio, Stefano; Servilio, Mara) A competitive scheduling problem and its relevance to UMTS channel assignment. (English summary) **2005f:90041**
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Becchetti, Luca (*with* Leonardi, Stefano; Marchetti-Spaccamela, Alberto; Vitaletti, A.; Diggavi, Suhas N.; Muthukrishnan, S. Muthu; Nandagopal, T.) Parallel scheduling problems in next generation wireless networks. (English summary) **2005g:90044**
Bengea, Sorin C. (*with* Hokayem, Peter F.; DeCarlo, Ray A.; Abdallah, Chaouki T.) Suboptimal control techniques for networked hybrid systems. (*see* **2005g:93003**)
Bertossi, Alan A. (*with* Pinotti, Cristina M.; Rizzi, Romeo; Shende, Anil M.) Channel assignment in honeycomb networks. (English summary) (*see* **2005b:68027**)
Birdwell, J. Douglas *see* **Dhakal, Sagar et al.**, (**2005g:93003**)
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Bose, Prosenjit (*with* Morin, Pat) Online routing in triangulations. (English summary) **2005b:65017**
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Calinescu, Gruia (*with* Kapoor, Sanjiv; Olshevsky, Alexander; Zelikovsky, Alexander) Network lifetime and power assignment in ad hoc wireless networks. (English summary) (*see* **2005c:68003**)
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Chang, Cheng-Shang (*with* Lee, Duan-Shin; Tu, Chao-Kai) Recursive construction of FIFO optical multiplexers with switched delay lines. (English summary)
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Chen, Peter P. *see* **Seiden, Steven S. et al.**, **2005m:68019**
Chen, Wen-re (*with* Hwang, Frank K.; Zhu, Xuding) Equivalence of the 1-rate model to the classical model on strictly nonblocking switching networks. (English summary) **2005a:68019**
Cheng, Christine T. Improved approximation algorithms for the demand routing and slotting problem with unit demands on rings. (English summary) **2005h:68008**
Chi, Tzong-Heng *see* **Keh, Huan-Chao**
Chiasson, John *see* **Advances in communication control networks**, **2005g:93003** *and* **Dhakal, Sagar et al.**, (**2005g:93003**)
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Detti, Paolo (*with* Agnetis, Alessandro; Ciaschetti, Gianfranco) Polynomial algorithms for a two-class multiprocessor scheduling problem in mobile telecommunications systems. (English summary) **2005m:90032**
Dhakal, Sagar (*with* Hayat, Majeed M.; Ghanem, Jean; Abdallah, Chaouki T.; Jerez, Henry; Chiasson, John; Birdwell, J. Douglas) On the optimization of load balancing in distributed networks in the presence of delay. (*see* **2005g:93003**)
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Keh, Huan-Chao (*with* Chi, Tzong-Heng) Multi-destination communication in IEH interconnection networks. (English summary)
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Li, Keyong (*with* Baillieul, John) Robust quantization for digital finite communication bandwidth (DFCB) control. (English summary) **2005d:93095**
Li, Minming (*with* Huang, Shawn L.; Sun, Xiao Ming[2]; Huang, Xiao) Performance evaluation for energy efficient topologic control in ad hoc wireless networks. (English summary) **2005d:68017**
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Lin, Li *see* **Xu, Yinlong et al., 2005a:68023**
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Ma, Shan Shan (*with* Yin, Bao Qun; Zhou, Ya Ping; Dai, Gui Ping; Xi, Hong Sheng) Simulation estimates of performance sensitivity and their applications in queuing systems with Erlang distributions. (Chinese. English and Chinese summaries)
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Mitchinson, Ben (*with* Harrison, Robert F.) Adaptive kernel-based equalization for non-stationary digital communications channels. (English summary) **2005g:94018**
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Movsichoff, Bernardo A. (*with* Lagoa, Constantino M.; Che, Hao) A sliding mode approach to traffic engineering in computer networks. (*see* **2005g:93003**)
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Narayanaswamy, Swetha (*with* Kawadia, Vikas; Sreenivas, R. S.; Kumar, Panganamala Ramana) Power control in ad hoc wireless networks: an architectural solution for a melee of multiple agents, cost criteria, and information patterns. (English summary) (*see* **2005a:00024**)
Nazarov, A. A. (*with* Shokhor, S. L.) Ergodicity of Markov chains with band graphs and their application to problems of the analysis of conditions for the existence of stationary regimes in dynamic random multiple access communication networks. (Russian. Russian summary) **2005g:94003**
— *see also* **Kuznetsov, Dmitriĭ Yur'evich[1], 2005g:68005**
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Pagourtzis, Aris *see* **Gąsieniec, Leszek et al., (2005c:68002)**
Pallottino, Stefano (*with* Tadei, Roberto) Foreword [Network optimization in transportation and communication].
Panayiotou, Christos G. (*with* Cassandras, Christos G.; Sun, Gang[1]; Wardi, Yoraï) Control of communication networks using infinitesimal perturbation analysis of stochastic fluid models. (*see* **2005g:93003**)
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Park, Cheolwoo *see* **Hernandez-Campos, Felix et al.**
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Schafer, Ronald W. *see* **Fozunbal, Majid et al., 2005e:94088**
Schenato, Luca *see* **Sinopoli, Bruno et al., 2005h:93169**
Seiden, Steven S. (*with* Chen, Peter P.; Lax, R. F.; Chen, Jianhua; Ding, Guoli) New bounds for randomized busing. (English summary) **2005m:68019**
Servilio, Mara *see* **Arbib, Claudio et al., 2005f:90041**
Sethuraman, Jay (*with* Teo, Chung-Piaw) Effective routing and scheduling in adversarial queueing networks. (*see* **2005b:68007**)
Sevast'yanov, S. V. *see* **Ageev, A. A. et al., (2005c:68005)**
Shakhov, Vladimir V. (*with* Choo, Hyunseung) Analytical approach for channel assignments in cellular networks. (English summary) (*see* **2005c:00014**)
Shakkottai, Sanjay (*with* Srikant, Rayadurgam; Stolyar, A. L.) Pathwise optimality of the exponential scheduling rule for wireless channels. (English summary) **2005j:60174**
Shende, Anil M. *see* **Bertossi, Alan A. et al., (2005b:68027)**
Shioda, Shigeo (*with* Ishii, Daisuke) Monotonicity results for single-server finite-capacity queues with respect to directionally convex order. (English summary) **2005f:60206**
Shokhor, S. L. *see* **Nazarov, A. A., 2005g:94003**
Shroff, Ness B. *see* **Eun, Do Young, 2005f:60197**
Sinopoli, Bruno (*with* Schenato, Luca; Franceschetti, Massimo; Poolla, Kameshwar; Jordan, Michael I.; Sastry, S. Shankar) Kalman filtering with intermittent observations. (English summary) **2005h:93169**
Smriglio, Stefano *see* **Arbib, Claudio et al., 2005f:90041**
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Stachowiak, Grzegorz *see* **Jurdziński, Tomasz, (2005b:68004)**
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Stolyar, A. L. *see* **Shakkottai, Sanjay et al., 2005j:60174**
Sun, Gang[1] (*with* Cassandras, Christos G.; Panayiotou, Christos G.) Perturbation analysis of multiclass stochastic fluid models. (English summary) **2005i:60188**
— *see also* **Panayiotou, Christos G. et al., (2005g:93003)**
Sun, Xiao Ming[2] *see* **Li, Minming et al., 2005d:68017**
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Taoutaou, Damia (*with* Niculescu, Silviu-Iulian; Gu, Keqin) Robust stability of teleoperation schemes subject to constant and time-varying communication delays. (English summary) **2005e:93117**
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(Tarbouriech, Sophie) *see* **Advances in communication control networks, 2005g:93003**
Tatikonda, Sekhar (*with* Elia, Nicola) Communication requirements for networked control. (*see* **2005g:93003**)
Teel, Andrew R. *see* **Nešić, Dragan, 2005k:93212**
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Ueno, Shuichi *see* **Yamada, Toshinori et al., 2005b:94076**
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Wang, Biing-Feng Linear time algorithms for the ring loading problem with demand splitting. (English summary) **2005g:68039**
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Wu, Yan[2] (*with* Wei, Xian Sun) Edge-tenacity of graphs. (Chinese. English and Chinese summaries) **2005i:05106**
Xi, Hong Sheng *see* **Ma, Shan Shan et al.**
Xia, Zun Quan *see* **Han, Hai-Shan, 2005g:91062**
Xu, Jun Ming Wide diameters of Cartesian product graphs and digraphs. (English summary) **2005f:05052**
Xu, Yinlong (*with* Lin, Li; Chen, Guo Liang[2]; Wan, Ying-Yu; Guo, Weijun) Multicasting and broadcasting in undirected WDM networks and QoS extentions of multicasting. (English summary) **2005a:68023**
— *see also* **Zhou, Fengfeng et al., 2005g:68012**
Yamada, Toshinori (*with* Nomura, Kumiko; Ueno, Shuichi) Sparse networks tolerating random faults. (English summary) **2005b:94076**
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— *see also* **Labbé, Martine, 2005b:90064**
Yang, Xiao Guang To improve the communication delay by upgrading nodes in a continuous version. (English summary) **2005j:68017**
Yin, Bao Qun *see* **Ma, Shan Shan et al.**
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Zampieri, Sandro *see* **Fagnani, Fabio, 2005e:93125**
Zang, Zhuquan (*with* Nordholm, Sven) Design of ODMA digital waveforms using non-convex optimization methods. (English summary)
Zappala, Daniel *see* **Farley, Arthur M. et al., 2005c:94095**
Zelikovsky, Alexander *see* **Calinescu, Gruia et al., (2005c:68003)**
Zhang, Jingyuan *see* **Fan, Guangbin, 2005a:68020**
Zhong, Qing-Chang Robust stability analysis of simple systems controlled over communication networks. (English summary)
Zhou, Fengfeng (*with* Xu, Yinlong; Chen, Guo Liang[2]) No-wait scheduling in single-hop multi-channel LANs. (English summary) **2005g:68012**
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Zhu, Xuding *see* **Chen, Wen-re et al., 2005a:68019**

Items listed otherwise than by author

Advances in communication control networks ★ Advances in communication control networks. **2005g:93003**
Lecture Notes in Control and Information Sciences ★ Advances in communication control networks. **2005g:93003**

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Bulut, Hamza (*with* Bulut, S. Aysun) Construction and algebraic characterizations of a planar four-index transportation problem equivalent to a circularization network flow problem. (English summary) **2005e:90015**
Bulut, S. Aysun *see* **Bulut, Hamza, 2005e:90015**
Chen, Feng[3] (*with* Zhang, Lian Sheng) Semi-definite relaxation algorithm for single machine scheduling with controllable processing times. (English summary) **2005j:90004**
Chiang, Jershan The optimal solution of the transportation problem with fuzzy demand and fuzzy product. (English summary)
Chiou, Suh-Wen Joint optimization for area traffic control and network flow. (English summary) **2005m:90017**
Chow, Timothy Y. (*with* Lin, Philip J.) The ring grooming problem. (English summary) **2005f:90023**
Crainic, Teodor Gabriel (*with* Malucelli, Federico; Nonato, Maddalena; Guertin, François) Meta-heuristics for a class of demand-responsive transit systems. (English summary)
Dolbeault, Jean (*with* Illner, Reinhard) Entropy methods for kinetic models of traffic flow. (English summary) **2005f:90024**
Èngel'son, L. E. *see* **Lindberg, Per Olov, (2005d:90005)**
Feng, Su-wei Economic analysis of traffic flow with an evolution equation. (English summary)
Fortz, Bernard (*with* Thorup, Mikkel) Increasing internet capacity using local search. (English summary) **2005e:90016**
Gasser, Ingenuin (*with* Sirito, G.; Werner, Bodo) Bifurcation analysis of a class of 'car following' traffic models. (English summary) **2005d:90022**
Guertin, François *see* **Crainic, Teodor Gabriel et al.**
Günther, Marco (*with* Klar, Axel; Materne, Thorsten; Wegener, Raimund) Multivalued fundamental diagrams and stop and go waves for continuum traffic flow equations. (English summary) **2005a:90029**
Gupta, Arvind Kumar (*with* Katiyar, V. K.) Analyses of shock waves and jams in traffic flow. (English summary) **2005k:90014**
Han, Deren (*with* Lo, Hong K.) Solving non-additive traffic assignment problems: a descent method for co-coercive variational inequalities. (English summary) **2005c:90016**
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Herty, Michael (*with* Klar, Axel) Modeling, simulation, and optimization of traffic flow networks. (English summary) **2005f:90025**
— (*with* Klar, Axel) Simplified dynamics and optimization of large scale traffic networks. (English summary) **2005a:90030**
Huang, Hai Jun[1] (*with* Lam, William H. K.) A stochastic model for combined activity/destination/route choice problems. (English summary)
— *see also* **Tang, Tie Qiao, 2005j:90006**
Idone, Giovanna (*with* Maugeri, Antonino) Variational inequalities and a transport planning for an elastic and continuum model. (English summary) **2005j:90005**
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Jiang, Rui (*with* Jia, Bin; Wang, Xiao-Lin; Wu, Qing-Song) Dangerous situations in the velocity effect model. (English summary) **2005e:90017**
— (*with* Wu, Qing-Song) Spatial-temporal patterns at an isolated on-ramp in a new cellular automata model based on three-phase traffic theory. (English summary) **2005e:90018**
Katiyar, V. K. *see* **Gupta, Arvind Kumar, 2005k:90014**
Kerner, Boris S. (*with* Klenov, Sergey L.) Spatial-temporal patterns in heterogeneous traffic flow with a variety of driver behavioural characteristics and vehicle parameters. (English summary) **2005d:90023**
— Three-phase traffic theory and highway capacity. (English summary)
Klar, Axel (*with* Wegener, Raimund) Traffic flow: models and numerics. (English summary) **2005f:90026**
— *see also* **Günther, Marco et al., 2005a:90029**; **Herty, Michael, 2005a:90030** *and* **2005f:90025**
Klenov, Sergey L. *see* **Kerner, Boris S., 2005d:90023**
Köhler, Ekkehard (*with* Langkau, Katharina; Skutella, Martin) Time-expanded graphs for flow-dependent transit times. (English summary) (*see* **2005c:68002**)
Krbalek, Milan (*with* Helbing, Dirk) Determination of interaction potentials in freeway traffic from steady-state statistics. (English summary)
Lam, William H. K. *see* **Huang, Hai Jun[1]**
Langkau, Katharina *see* **Köhler, Ekkehard et al., (2005c:68002)**
Lawphongpanich, Siriphong (*with* Hearn, Donald W.) An MPEC approach to second-best toll pricing. (English summary) **2005e:90019**
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Nonato, Maddalena *see* **Crainic, Teodor Gabriel et al.**
Olsen, Tava Lennon (*with* van der Mei, R. D.) Polling systems with periodic server routing in heavy traffic: renewal arrivals. (English summary)
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Pellizzari, Paolo (*with* Sorato, Annamaria) On the coincidence of system optimum and user equilibrium for a widely used family of cost functions. (English summary)
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Schöbel, Anita Locating stops along bus or railway lines—a bicriteria problem. (English summary)
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— (*with* Huang, Hai Jun[1]) Continuum models for freeways with two lanes and numerical tests. (Chinese. Chinese summary)
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Yang, Jianguo (*with* Li, Qingfeng; Wang, Zhaoan; Wang, Jinmei) Estimating pedestrian delays at signalized intersections in developing cities by Monte Carlo method. (English summary)
Zhang, Lian Sheng *see* **Chen, Feng[3], 2005j:90004**

Items with secondary classifications in 90B20

Alpcan, Tansu (*with* Başar, Tamer) Distributed algorithms for Nash equilibria of flow control games. (English summary) **2005h:90014**
Andrews, Matthew (*with* Zhang, Lisa) Minimizing end-to-end delay in high-speed networks with a simple coordinated schedule. (English summary) **2005a:68028**
Arvanitis, Theodoros N. *see* **Stepanenko, Alexander S. et al., 2005m:68020**
Babel, Luitpold (*with* Kellerer, Hans[2]) Design of tariff zones in public transportation networks: theoretical results and heuristics. (English summary) **2005e:90007**
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Baykal-Gursoy, Melike (*with* Xiao, Weihua) Stochastic decomposition in $M/M/\infty$ queues with Markov modulated service rates. (English summary) **2005h:60269**
Bruni, C. (*with* Scoglio, C.; Vergari, S.) Path capacity dimensioning in a multiprotocol label switched network: analysis of optimal and suboptimal solutions. (English summary) **2005c:90009**
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Çağlar, M. A long-range dependent workload model for packet data traffic. (English summary) **2005a:90024**
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Chardaire, P. (*with* McKeown, G. P.; Verity-Harrison, S. A.; Richardson, S. B.) Solving a time-space network formulation for the Convoy movement problem. (English summary)
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Constantinou, Constantinos C. *see* **Stepanenko, Alexander S. et al., 2005m:68020**
Feldmann, Rainer (*with* Gairing, Martin; Lücking, Thomas; Monien, Burkhard; Rode, Manuel) Nashification and the coordination ratio for a selfish routing game. (English summary) (*see* **2005b:68008**)
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Fusco, D. (*with* Manganaro, N.) Simple wave-like solutions to a class of hyperbolic models. (English summary)
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Gentili, M. (*with* Mirchandani, P. B.) Locating active sensors on traffic networks. (English summary)
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— Performance of a leaky bucket system with long-range dependent input traffic. (English summary) **2005d:60151**
Greenberg, James M. Congestion redux. (English summary) **2005d:35163**
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Harrison, J. Michael A broader view of Brownian networks. (English summary) **2005f:90018**
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Li, Tong[1] Modelling traffic flow with a time-dependent fundamental diagram. (English summary) **2005b:35025**
Lin, Si-Jian *see* **Konstantopoulos, Takis et al., 2005i:60091**
Lücking, Thomas (*with* Mavronicolas, Marios; Monien, Burkhard; Rode, Manuel; Spirakis, Paul G.; Vrt'o, Imrich) Which is the worst-case Nash equilibrium? (English summary) **2005f:91015**
— *see also* **Feldmann, Rainer et al.,** (2005b:68008)
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Monien, Burkhard *see* **Lücking, Thomas et al., 2005f:91015** *and* **Feldmann, Rainer et al.,** (2005b:68008)
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Orosz, Gábor (*with* Wilson, R. Eddie; Krauskopf, Bernd) Global bifurcation investigation of an optimal velocity traffic model with driver reaction time. (English summary) **2005j:34072**
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Shen, Zuo-Jun Max *see* **Shu, Jia et al.**
Shu, Jia (*with* Teo, Chung-Piaw; Shen, Zuo-Jun Max) Stochastic transportation-inventory network design problem. (English summary)
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Stepanenko, Alexander S. (*with* Constantinou, Constantinos C.; Arvanitis, Theodoros N.) Large-scale behaviour of packet-switched networks: theoretical analysis framework. (English summary) **2005m:68020**
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Aalto, Samuli (*with* Ayesta, Urtzi; Nyberg-Oksanen, Eeva) $M/G/1/MLPS$ compared to $M/G/1/PS$. (English summary) **2005m:90019**
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Agarwal, Ravi P. (*with* Dshalalow, Jewgeni H.) New fluctuation analysis of D-policy bulk queues with multiple vacations. (English summary) **2005i:90011**
Aguir, Salah (*with* Karaesmen, Fikri; Akşin, O. Zeynep; Chauvet, Fabrice) The impact of retrials on call center performance. (English summary) **2005a:90031**
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Altman, Eitan (*with* Jiménez, Tania; Núñez-Queija, Rudesindo; Yechiali, Uri) Optimal routing among $\cdot/M/1$ queues with partial information. (English summary) **2005d:90025**
— Applications of dynamic games in queues. (English summary) **2005h:90023**
Armony, Mor (*with* Maglaras, Constantinos) On customer contact centers with a call-back option: customer decisions, routing rules, and system design. (English summary) **2005f:90027**
— (*with* Maglaras, Constantinos) Contact centers with a call-back option and real-time delay information. (English summary) **2005d:90026**
Artalejo, Jesus R. (*with* Economou, Antonis) Optimal control and performance analysis of an $M^X/M/1$ queue with batches of negative customers. (English summary) **2005f:90028**

— (*with* Lopez-Herrero, Maria J.) Entropy maximization and the busy period of some single-server vacation models. (English summary) **2005d:90027**
Atar, Rami (*with* Mandelbaum, Avishai; Reiman, Martin I.) Scheduling a multi class queue with many exponential servers: asymptotic optimality in heavy traffic. (English summary) **2005d:90028**
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Bansal, Nikhil On the average sojourn time under M/M/1/SRPT. (English summary) **2005f:90030**
Bedford, Anthony[2] (*with* Zeephongsekul, Panlop) Simulation studies of a multi-priority dual queue (MPDQ) with preemptive and non-preemptive scheduling. (English summary) (*see* **2005g:00014**)
— (*with* Zeephongsekul, Panlop) On a dual queueing system with preemptive priority service discipline. (English summary) **2005g:90025**
Bekakos, M. P. *see* **Mousadis, G. I. et al., (2005m:00008)**
Benjaafar, Saif *see* **Gurumurthi, Suri, 2005c:90018**
Bhaskar, Vidhyacharan (*with* Joiner, Laurie L.) Modeling scheduled dataflow architecture: an open queuing network model approach. (English summary)
— (*with* Adjallah, Kondo Hloindo; Joiner, Laurie L.) Dataflow modelling in distributed diagnostic-processing systems: a closed queuing network model approach with single servers. (English summary)
Birge, John R. *see* **Grasman, Scott E. et al., 2005j:90010**
Borst, S. C. (*with* Mandelbaum, Avishai; Reiman, Martin I.) Dimensioning large call centers. (English summary) **2005f:90031**
Borthakur, Arun *see* **Choudhury, Gautam et al.**
Bowling, Shannon R. (*with* Khasawneh, Mohammad T.; Kaewkuekool, Sittichai; Cho, Byung Rae) A Markovian approach to determining optimum process target levels for a multi-stage serial production system. (English summary)
Buzacott, J. A. *see* **Iravani, Seyed M. R. et al., 2005g:90027**
Chae, Kyung Chul *see* **Choi, Dae Won et al., 2005j:90007**
Chaudhry, Mohan L. (*with* Kim, Jin Dong) Complete analytic and computational analysis of the discrete-time bulk-arrival infinite-server system: $GI^X/Geom/\infty$. (English summary) **2005d:90030**
Chauvet, Fabrice *see* **Aguir, Salah et al., 2005a:90031**
Chen, Huo Wang *see* **Sun, Xingming et al., 2005f:90036**
Chen, Mu-Chen *see* **Yang, Taho et al.**
Chen, Pangwei *see* **Yang, Taho et al.**
Chen, Sheau-Chyi *see* **Wang, Kuo-Hsiung et al.**
Chen, Shih-Pin A mathematical programming approach to fuzzy queues with batch arrivals. (English summary)
Chen, Yan *see* **Zhu, Yi Jun et al.**
Chien, Yu-Hung *see* **Sheu, Shey-Huei, 2005g:90030**
Cho, Byung Rae *see* **Bowling, Shannon R. et al.**
Choi, Dae Won (*with* Kim, Nam Ki; Chae, Kyung Chul) A two-moment approximation for the $GI/G/c$ queue with finite capacity. (English summary) **2005j:90007**
Choudhury, Gautam (*with* Paul, Madhuchanda) A batch arrival queue with an additional service channel under N-policy. (English summary) **2005c:90017**
— (*with* Borthakur, Arun; Kalita, Sangeeta) On a batch arrival Poisson queue under threshold policy with a grand vacation. (English summary)
— *see also* **Madan, Kailash C., 2005b:90030**
Daduna, Hans *see* **Malchin, Christian, 2005e:90021**
Dai, Gui Ping *see* **Ma, Shan Shan et al.**
Dallery, Yves *see* **Matta, Andrea et al., 2005k:90016**
D'Apice, Ciro (*with* Kristofano, M. L.; Pechinkin, Alexandre) The $MAP_K/G_K/1/\infty$ queueing system with generalized server-sharing discipline with preference. (Russian. Russian summary) **2005j:90008**
Denteneer, D. (*with* Janssen, A. J. E. M.; van Leeuwaarden, J. S. H.) Moment inequalities for the discrete-time bulk service queue. (English summary) **2005j:90009**
Di Mascolo, Maria *see* **Matta, Andrea et al., 2005k:90016**
Dogramaci, Ali (*with* Fraiman, Nelson M.) Replacement decisions with maintenance under uncertainty: an imbedded optimal control model. (English summary) **2005d:90031**
Draper, Stark C. (*with* Trott, Mitchell D.; Wornell, Gregory W.) A universal approach to queuing with distortion control. (English summary) **2005i:90012**
Drekic, Steve (*with* Woolford, Douglas G.) A preemptive priority queue with balking. (English summary) **2005h:90024**
Dshalalow, Jewgeni H. *see* **Agarwal, Ravi P., 2005i:90011**
Eaves, B. Curtis (*with* Glynn, Peter W.; Rothblum, Uriel G.) The mean number-in-system vector range for multiclass queueing networks. (English summary) **2005a:90032**
Economou, Antonis *see* **Artalejo, Jesus R., 2005f:90028**
Èryuzhev, M. V. *see* **Tarantsev, A. A., 2005h:90026**
Evdokimovich, V. E. (*with* Malinkovskiĭ, Yu. V.) Queueing networks with dynamic routing and dynamic probabilistic bypasses of nodes by customers. (Russian. Russian summary) **2005f:90032**
Fernández Aréizaga, Elena (*with* Hinojosa, Yolanda; Puerto Albandoz, Justo) Filtering policies in loss queuing network location problems. (English summary)
Florea, Ion One algorithmic approach of the parallel multi-server queuing system of head of line type. (English and Romanian summaries) **2005b:90027**
— A proposal concerning a simulation algorithm for multi-server preemptive queueing systems. (English and Romanian summaries)
Fraiman, Nelson M. *see* **Dogramaci, Ali, 2005d:90031**
Gautam, Natarajan *see* **Kharoufeh, Jeffrey P., 2005a:90038**
Gilland, Wendell G. Analysis of optimal and nearly optimal sequencing policies for a closed queueing network. (English summary)
Glazebrook, Kevin D. (*with* Kirkbride, C.) Index policies for the routing of background jobs. (English summary) **2005b:90028**
Glynn, Peter W. *see* **Eaves, B. Curtis et al., 2005a:90032**
Gómez-Corral, A. Sojourn times in a two-stage queueing network with blocking. (English summary) **2005k:90015**
— On a finite-buffer bulk-service queue with disasters. (English summary) **2005m:90020**
González, Paula (*with* Herrero, Carmen) Optimal sharing of surgical costs in the presence of queues. (English summary) **2005d:90032**
Goswami, V. Distribution of the number of customers served during a busy period in a discrete time single server queue. (English summary)
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Guiffrida, Alfred L. *see* **Jaber, Mohamad Y., 2005c:90019**
Güllü, Refik Analysis of an $M/G/\infty$ queue with batch arrivals and batch-dedicated servers. (English summary) **2005a:90033**
Gupta, U. C. (*with* Samanta, Sujit Kumar; Sharma, R. K.) Computing queue length and waiting time distributions in finite-buffer discrete-time multiserver queues with late and early arrivals. (English summary) **2005g:90026**
Gurumurthi, Suri (*with* Benjaafar, Saif) Modeling and analysis of flexible queueing systems. (English summary) **2005c:90018**
van Harten, Aart *see* **van der Heijden, Matthieu et al., 2005b:90029** *and* **Sleptchenko, Andrei et al., 2005m:90023**
van der Heijden, Matthieu (*with* van Harten, Aart; Sleptchenko, Andrei) Approximations for Markovian multi-class queues with preemptive priorities. (English summary) **2005b:90029**
— *see also* **Sleptchenko, Andrei et al., 2005m:90023**
Helber, Stefan *see* **Stolletz, Raik, 2005a:90041**
Herrero, Carmen *see* **González, Paula, 2005d:90032**
Hinojosa, Yolanda *see* **Fernández Aréizaga, Elena et al.**
Hordijk, Arie (*with* van der Laan, Dinard) Periodic routing to parallel queues and billiard sequences. (English summary) **2005a:90034**
Hu, Bo *see* **Zhu, Yi Jun et al.**
Indra (*with* Sharda) A batch arrival two-state $M/M/1$ queueing system with latest arrival run (LAR) having maximum effective length one. (English summary) **2005a:90035**
Iravani, Seyed M. R. (*with* Buzacott, J. A.; Posner, M. J. M.) A robust policy for serial agile production systems. (English summary) **2005g:90027**
— (*with* Kolfal, Bora) When does the $c\mu$ rule apply to finite-population queueing systems? (English summary) **2005g:90028**
Isotupa, K. P. Sapna *see* **Alfa, Attahiru Sule, 2005b:90026**
Jaber, Mohamad Y. (*with* Guiffrida, Alfred L.) Learning curves for processes generating defects requiring reworks. (English summary) **2005c:90019**
Jahromi, Masaud M. J. *see* **Madan, Kailash C., 2005f:90033**
Jain, Madhu (*with* Sharma, G. C.; Moses, Sharon) The $M/M/C$ interdependent machining system with mixed spares and controllable rates of failure and repair. (English summary) **2005c:90020**
— *see also* **Singh, Charan Jeet**
Janssen, A. J. E. M. *see* **Denteneer, D. et al., 2005j:90009**
Jiménez, Tania (*with* Koole, Ger) Scaling and comparison of fluid limits of queues applied to call centers with time-varying parameters. (English summary) **2005a:90036**
— *see also* **Altman, Eitan et al., 2005d:90025**
Jin, Sun Fu *see* **Shen, Li Min et al., 2005f:90035**
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Kalita, Sangeeta *see* **Choudhury, Gautam et al.**
Kalpakam, S. *see* **Kistner, Klaus-Peter**
Kalyanaraman, R. (*with* Srinivasan, B.) A retrial queueing system with two types of calls and geometric loss. (English summary)
Kao, Hsiu-Hsueh *see* **Yeh, Din-Horng**
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Ke, Jau-Chuan The optimal control in batch arrival queue with server vacations, startup and breakdowns. (English summary) **2005a:90037**
— Modified T vacation policy for an $M/G/1$ queueing system with an unreliable server and startup. (English summary)
— *see also* **Wang, Kuo-Hsiung et al.**
Kharoufeh, Jeffrey P. (*with* Gautam, Natarajan) A fluid queueing model for link travel time moments. (English summary) **2005a:90038**
— *see also* **Sherman, N. P.**
Khasawneh, Mohammad T. *see* **Bowling, Shannon R. et al.**
Khocholava, V. V. *see* **Mikadze, I. S. et al., 2005j:90011** *and* **2005j:90012**
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Kim, Nam Ki *see* **Choi, Dae Won et al., 2005j:90007**
Kirkbride, C. *see* **Glazebrook, Kevin D., 2005b:90028**
Kistner, Klaus-Peter (*with* Kalpakam, S.) On the output of tandem queues. (English summary)
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Kristofano, M. L. *see* **D'Apice, Ciro et al., 2005j:90008**
Kumaran, Jayesh (*with* Mitchell, Kenneth H.; van de Liefvoort, Appie) Characterization of the departure process from an $ME/ME/1$ queue. (English summary)
van der Laan, Dinard *see* **Hordijk, Arie, 2005a:90034**
Lee, Dong Chun *see* **Na, Won Shik et al., (2005g:65009)**
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Li, Changyun *see* **Sun, Xingming et al., 2005f:90036**
Li, Jing Bo *see* **Lü, Sheng Li et al.**
Li, Wei Ming *see* **Liu, Juan**[4]
Lie, Wei Min (*with* Liu, Juan[4]) A new proof for the geometric ergodicity of the queue length of an $M/G/1$ queueing system. (Chinese. English and Chinese summaries)

yan de Liefvoort, Appie *see* **Kumaran, Jayesh et al.**
Liu, Juan[4] (*with* Li, Wei Ming) Transient distribution of the length of a $Frac(M)/M/1$ queueing system. (Chinese. English and Chinese summaries)
— *see also* **Lie, Wei Min**
Lopez-Herrero, Maria J. *see* **Artalejo, Jesus R., 2005d:90027**
Lü, Sheng Li (*with* Yue, De Quan; Li, Jing Bo; Shi, Tian Lin) Reliability analysis of an $M/M/N$ queueing system with repairable service stations and a single repairman. (Chinese. English and Chinese summaries)
Luh, Hsing Paul (*with* Tseng, Kai-Hung) Characterizing the idle time of a nonexponential server system. (English summary) **2005g:90029**
Ma, Shan Shan (*with* Yin, Bao Qun; Zhou, Ya Ping; Dai, Gui Ping; Xi, Hong Sheng) Simulation estimates of performance sensitivity and their applications in queuing systems with Erlang distributions. (Chinese. English and Chinese summaries)
Madan, Kailash C. (*with* Jahromi, Masaud M. J.) An $M/G/1$ queue with Bernoulli schedules and Coxian-2 server vacations. (English summary) **2005f:90033**
— (*with* Choudhury, Gautam) An $M^X/G/1$ queue with a Bernoulli vacation schedule under restricted admissibility policy. (English summary) **2005b:90030**
Maglaras, Constantinos (*with* Van Mieghem, Jan A.) Queueing systems with leadtime constraints: A fluid-model approach for admission and sequencing control. (English summary) **2005m:90022**
— *see also* **Armony, Mor, 2005d:90026** *and* **2005f:90027**
Malchin, Christian (*with* Daduna, Hans) An invariance property of sojourn times in cyclic networks. (English summary) **2005e:90021**
Malinkovskiĭ, Yu. V. *see* **Evdokimovich, V. E., 2005f:90032**
Mandelbaum, Avishai (*with* Zeltyn, Sergey) The impact of customers' patience on delay and abandonment: some empirically-driven experiments with the $M/M/n+G$ queue. (English summary) **2005a:90039**
— (*with* Stolyar, A. L.) Scheduling flexible servers with convex delay costs: heavy-traffic optimality of the generalized $c\mu$-rule. (English summary) **2005f:90034**
— *see also* **Atar, Rami et al., 2005d:90028**; **Shimkin, Nahum, 2005d:90034** *and* **Borst, S. C. et al., 2005f:90031**
Matta, Andrea (*with* Dallery, Yves; Di Mascolo, Maria) Analysis of assembly systems controlled with kanbans. (English summary) **2005k:90016**
Mikadze, I. S. (*with* Khocholava, V. V.; Khurodze, R. A.) Virtual expectation time in a single-server queueing system with an unreliable server. (Russian. Russian summary) **2005j:90011**
— (*with* Khocholava, V. V.) Investigation of the queue length in a single-server queueing system with an unreliable server. (Russian. Russian summary) **2005j:90012**
Mitchell, Kenneth H. *see* **Kumaran, Jayesh et al.**
Mitra, Manipushpak Incomplete information and multiple machine queueing problems. (English summary) **2005h:90025**
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Moreno, Pilar *see* **Atencia, Ivan, 2005d:90029**
Moses, Sharon *see* **Jain, Madhu et al., 2005c:90020**
Mousadis, G. I. (*with* Tsiligirides, T. A.; Bekakos, M. P.) A new queue control function family to support differentiated services over ABR. (English summary) (*see* **2005m:00008**)
Na, Won Shik (*with* Lee, Dong Chun; Ryoo, In Tai) Efficient queuing management scheme with image/voice/data calls for reducing blocking rate in multimedia mobile networks. (English summary) (*see* **2005g:65009**)
Núñez-Queija, Rudesindo *see* **Altman, Eitan et al., 2005d:90025**
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Ryoo, In Tai *see* **Na, Won Shik et al.**, (**2005g:65009**)
Sağlam, Vadat (*with* Torun, Hakan) On optimization of stochastic service system with two heterogeneous channels. (English summary)
Samanta, Sujit Kumar *see* **Gupta, U. C. et al., 2005g:90026**
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Sharma, G. C. *see* **Jain, Madhu et al., 2005c:90020**
Sharma, R. K. *see* **Gupta, U. C. et al., 2005g:90026**
Shen, Li Min (*with* Jin, Sun Fu; Tian, Nai Shuo) The $M/M/c$ queue with N-policy and multiple vacation of partial servers. (Chinese. English and Chinese summaries) **2005f:90035**
Sherman, N. P. (*with* Kharoufeh, Jeffrey P.) Analytical modeling of joint reception, staging, onward movement, and integration. (English summary)
Sheu, Shey-Huei (*with* Chien, Yu-Hung) Optimal burn-in time to minimize the cost for general repairable products sold under warranty. (English summary) **2005g:90030**
Shi, Tian Lin *see* **Lü, Sheng Li et al.**
Shimkin, Nahum (*with* Mandelbaum, Avishai) Rational abandonment from tele-queues: nonlinear waiting costs with heterogeneous preferences. (English summary) **2005d:90034**
Shumsky, Robert A. Approximation and analysis of a call center with flexible and specialized servers. (English summary) **2005a:90040**
Singh, Charan Jeet (*with* Jain, Madhu) k-to-n redundant system with N-repairable servers. (English summary)
Sleptchenko, Andrei (*with* van Harten, Aart; van der Heijden, Matthieu) An exact solution for the state probabilities of the multi-class, multi-server queue with preemptive priorities. (English summary) **2005m:90023**
— *see also* **van der Heijden, Matthieu et al., 2005b:90029**
Srinivasan, B. *see* **Kalyanaraman, R.**
Stolletz, Raik (*with* Helber, Stefan) Performance analysis of an inbound call center with skills-based routing. (English summary) **2005a:90041**
Stolyar, A. L. On the asymptotic optimality of the gradient scheduling algorithm for multiuser throughput allocation. (English summary) **2005k:90017**
— *see also* **Mandelbaum, Avishai, 2005f:90034**
Sun, Xingming (*with* Chen, Huo Wang; Yin, Jianping; Jin, Xinhai; Yang, Aiming; Li, Changyun) On construction sequence optimization of cascaded hydroelectric stations. (English summary) **2005f:90036**
Tan, Yong (*with* Moinzadeh, Kamran; Mookerjee, Vijay S.) Optimal processing policies for an e-commerce web server. (English summary) **2005j:90013**
Tarantsev, A. A. (*with* Èryuzhev, M. V.) On analytic relations in single-channel nonclosed queueing systems. (Russian. Russian summary) **2005h:90026**
Tardelli, Paola Optimal control for a partially observable queue. (*see* **2005m:00008**)
Tian, Nai Shuo *see* **Zhang, Zhe George, 2005e:90022** *and* **Shen, Li Min et al., 2005f:90035**
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Tsiligirides, T. A. *see* **Mousadis, G. I. et al.**, (**2005m:00008**)
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Van Mieghem, Jan A. *see* **Maglaras, Constantinos, 2005m:90022**
van Vuuren, Marcel (*with* Adan, Ivo J. B. F.; Resing-Sassen, Simone A. E.) Performance analysis of multi-server tandem queues with finite buffers and blocking. (English summary)
Wang, Kuo-Hsiung (*with* Chen, Sheau-Chyi; Ke, Jau-Chuan) Maximum likelihood estimates and confidence intervals of an M/M/R/N queue with balking and heterogeneous servers. (English summary)
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— *see also* **Altman, Eitan et al., 2005d:90025**
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Yue, Jinfeng (*with* Wang, Min-Chiang) Robust commit time decisions and bounds for measuring demand-side quality costs. (English summary)
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Zhu, Yi Jun (*with* Chen, Yan; Hu, Bo) $GI/M/1$ queueing systems with negative customers and vacations. (Chinese. English and Chinese summaries)

Items with secondary classifications in 90B22

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— Analysis of a $GI/G^Y/1$ system in discrete-time. (English summary)
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Alrefaei, Mahmoud H. (*with* Alawneh, Ameen J.) Solution quality of random search methods for discrete stochastic optimization. (English summary) **2005k:90085**
Artalejo, Jesus R. (*with* Atencia, Ivan) On the single server retrial queue with batch arrivals. (English summary) **2005c:60121**
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Ata, Barış (*with* Kumar, Sunil[1]) Heavy traffic analysis of open processing networks with complete resource pooling: asymptotic optimality of discrete review policies. (English summary) **2005k:60283**
— (*with* Harrison, J. Michael; Shepp, Larry A.) Drift rate control of a Brownian processing system. (English summary) **2005k:60265**
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— *see also* **Artalejo, Jesus R., 2005c:60121**
Athreya, Siva R. (*with* Roy, Rahul; Sarkar, Anish) On the coverage of space by random sets. (English summary) **2005d:60018**
Avi-Itzhak, Benjamin (*with* Levy, Hanoch) On measuring fairness in queues. (English summary) **2005f:60192**

Avrachenkov, Konstantin E. (*with* Shevlyakov, G. L.; Vilchevskii, N. O.) Randomized push-out disciplines in priority queueing. **2005f:60193**

Ayhan, Hayriye (*with* Palmowski, Zbigniew; Schlegel, Sabine) Cyclic queueing networks with subexponential service times. (English summary) **2005d:60143**

— *see also* **Chang, Junxia et al., 2005h:90053**

Badescu, Andrei (*with* Breuer, Lothar; da Silva Soares, Ana; Latouche, Guy; Remiche, Marie-Ange; Stanford, David A.) Risk processes analyzed as fluid queues. (English summary) **2005m:60221**

Bai, Liwei (*with* Fralix, Brian; Liu, Liming; Shang, Weixin) Inter-departure times in base-stock inventory-queues. (English summary) **2005h:60289**

Bashtova, E. E. Virtual waiting time in a system with a Markov-modulated input stream. (Russian) **2005k:60284**

Baum, Dieter (*with* Kalashnikov, Vladimir) Spatial no-waiting stations with moving customers. (English summary) **2005f:60194**

— (*with* Kovalenko, Igor Nikolaevich) Estimation of loss probability in a queueing system of type $MAP/G/m/0$ under light traffic. (Ukrainian. Ukrainian summary) **2005m:60205**

Bekker, René (*with* Borst, S. C.; Boxma, Onno J.; Kella, Offer) Queues with workload-dependent arrival and service rates. (English summary) **2005e:60209**

— (*with* Zwart, Bert) On an equivalence between loss rates and cycle maxima in queues and dams. (English summary) **2005j:60164**

Belarbi, Faiza Étude par la méthode des limites fluides de la stabilité du réseau de file d'attente de Lu-Kumar-Bramson. (French summary) [Study of the stability of the Lu-Kumar-Bramson queueing network using the fluid limit method] **2005i:60177**

Bertrand, J. W. M. *see* **Van Nyen, P. L. M. et al.**

Bhaskar, Vidhyacharan (*with* Joiner, Laurie L.) Modeling scheduled dataflow architecture: an open queuing network model approach. (English summary)

— (*with* Adjallah, Kondo Hloindo; Joiner, Laurie L.) Dataflow modelling in distributed diagnostic-processing systems: a closed queuing network model approach with multiple servers. (English summary)

Blondia, C. *see* **Van Houdt, B.** *and* **Van Velthoven, J. et al.**

Bocharov, P. P. (*with* D'Apice, Ciro; Manzo, Rosanna; Fong, N. Kh.) On the servicing of a multivariate Poisson flow on a retrial single server with a finite buffer. (Russian. Russian summary) **2005g:60142**

— (*with* D'Apice, Ciro; Pechinkin, Alexandre; Salerno, Saverio) Stationary characteristics of the queueing system $G/MSP/1/r^1$. (Russian. Russian summary) **2005g:60143**

— (*with* Gavrilov, Evgeny; D'Apice, Ciro; Pechinkin, Alexandre) On the decomposition of queueing networks with dependent servicing and negative customers. (Russian. Russian summary) **2005g:60144**

de Boer, Pieter-Tjerk Rare-event simulation of non-Markovian queueing networks using a state-dependent change of measure determined using cross-entropy. (English summary) **2005k:90011**

Borst, S. C. *see* **Bekker, René et al., 2005e:60209** *and* **Zwart, Bert et al., 2005e:60226**

Boxma, Onno J. *see* **Bekker, René et al., 2005e:60209**

Boyer, Jacqueline *see* **Sericola, Bruno et al.**

Bradley, James R. A Brownian approximation of a production-inventory system with a manufacturer that subcontracts. (English summary) **2005d:90057**

— Optimal control of a dual service rate $M/M/1$ production-inventory model. (English summary) **2005f:90039**

Brandt, Andreas (*with* Brandt, Manfred) On the two-class $M/M/1$ system under preemptive resume and impatience of the prioritized customers. (English summary) **2005g:60146**

Brandt, Manfred *see* **Brandt, Andreas, 2005g:60146**

Bratiĭchuk, N. S. (*with* Chydzinski, Andrzej) On the ergodic distribution of oscillating queueing systems. (English summary) **2005f:60196**

Breuer, Lothar (*with* Dudin, Aleksandr; Klimenok, Valentina; Tsarenkov, G. V.) The two-phase system $BMAP|G|1|N \to PH|1|M-1$ with blocking. (Russian. Russian summary) **2005g:60147**

— *see also* **Badescu, Andrei et al., 2005m:60221**

Brill, Percy H. *see* **Shortle, John F. et al., 2005g:60155**

Brouns, Gido A. J. F. (*with* van der Wal, Jan) Optimal threshold policies in a workload model with a variable number of service phases per job. (English summary) **2005b:90150**

Buckley, James J. ★ Fuzzy probabilities and fuzzy sets for web planning. **2005a:60008**

Çağlar, M. A long-range dependent workload model for packet data traffic. (English summary) **2005a:90024**

Caramanis, Michael C. *see* **Paschalidis, Ioannis Ch. et al., 2005d:90054**

Cassandras, Christos G. *see* **Sun, Gang[1] et al., 2005i:60188**

Chae, Kyung Chul (*with* Lee, Sang Min; Kim, Nam Ki; Kim, Jin Dong; Lee, Ho Woo) A trial solution approach to the $GI/M/1$ queue with N-policy and exponential vacations. (English summary)

— (*with* Kim, Nam Ki; Yoon, Bong K.) On the queue length distribution for the $GI/G/1/K/V_M$ queue. (English summary) **2005b:60235**

— *see also* **Kim, Nam Ki et al.** *and* **Lee, Ho Woo et al.**

Chakravarthy, Srinivas R. *see* **Dudin, Aleksandr, 2005b:60236**

Chander, Suresh Reliability models with priority for operation and repair with arrival time of server. (English summary)

Chang, Junxia (*with* Ayhan, Hayriye; Dai, J. G.; Xia, Cathy H.) Dynamic scheduling of a multiclass fluid model with transient overload. (English summary) **2005h:90053**

Chang, Seok Ho (*with* Choi, Dae Won; Kim, Tae-Sung[2]) Performance analysis of a finite-buffer bulk-arrival and bulk-service queue with variable server capacity. (English summary) **2005g:60148**

— *see also* **Chaudhry, Mohan L., 2005a:60147**

Chaudhry, Mohan L. (*with* Gupta, U. C.; Goswami, V.) On discrete-time multiserver queues with finite buffer: $GI/Geom/m/N$. (English summary) **2005b:68040**

— (*with* Chang, Seok Ho) Analysis ofthe discrete-time bulk-service queue $\mathrm{Geo}/\mathrm{G}^{\mathrm{Y}}/1/N+B$. (English summary) **2005a:60147**

— *see also* **Kim, Nam Ki et al.**

Chen, Anyue (*with* Renshaw, Eric) Markovian bulk-arriving queues with state-dependent control at idle time. (English summary) **2005b:60199**

Chen, F. Frank *see* **Dong, Ming**

Chen, Hong[3] (*with* Wan, Yat-wah) Capacity competition of make-to-order firms. (English summary) **2005h:91054**

Chen, Shih-Pin Parametric nonlinear programming approach to fuzzy queues with bulk service. (English summary)

Cheon, Sahng Hoon *see* **Lee, Ho Woo et al.**

Ching, Wai Ki *see* **Lu, Lin Zhang et al., 2005e:15002**

Choi, Bong Dae (*with* Kim, Bara; Zhu, Dongbi) $MAP/M/c$ queue with constant impatient time. (English summary) **2005e:60210**

— (*with* Kim, Bara) Non-ergodicity criteria for denumerable continuous time Markov processes. (English summary) **2005e:60165**

Choi, Dae Won *see* **Chang, Seok Ho et al., 2005g:60148**

Choudhury, Gautam On the $M/G/1$ queue with Bernoulli feedback and exceptional first vacation. (English summary)

— (*with* Paul, Madhuchanda) A two phase queueing system with Bernoulli feedback. (English summary)

— Some aspects of an $M^x/G/1$ queue with two different vacation periods under multiple vacation policy. (English summary)

Chydzinski, Andrzej On the remaining service time upon reaching a given level in $M/G/1$ queues. (English summary) **2005g:60149**

— On the distribution of consecutive losses in a finite capacity queue. (English summary)

— *see also* **Bratiĭchuk, N. S., 2005f:60196**

Dai, J. G. *see* **Chang, Junxia et al., 2005h:90053**

D'Apice, Ciro (*with* Manzo, Rosanna; Pechinkin, Alexandre) The $\mathrm{MAP}_k/G_k/1$ queueing system with finite capacity and a generalized processor-sharing discipline with preference. (Russian. Russian summary) **2005m:60206**

— *see also* **Bocharov, P. P. et al., 2005g:60142; 2005g:60143** *and* **2005g:60144**

Dębicki, Krzysztof (*with* Mandjes, Michel) Traffic with an fBm limit: convergence of the stationary workload process. (English summary) **2005e:60211**

Deepak, T. G. (*with* Joshua, V. C.; Krishnamoorthy, A.) Queues with postponed work. (English summary)

Derbala, Ali Priority queuing in an operating system. (English summary)

van Dijk, Nico M. (*with* Miyazawa, Masakiyo) Error bounds for perturbing nonexponential queues. (English summary) **2005e:60212**

Dong, Ming (*with* Chen, F. Frank) Performance modeling and analysis of integrated logistic chains: an analytic framework. (English summary)

van Doorn, Erik A. (*with* Jagers, A. A.) A note on the $GI/GI/\infty$ system with identical service and interarrival-time distributions. (English summary) **2005e:60214**

Dshalalow, Jewgeni H. *see* **Rosson, Hong-Tham T., 2005b:60247**

Dudin, Aleksandr (*with* Chakravarthy, Srinivas R.) Multi-threshold control of the $BMAP/SM/1/K$ queue with group services. (English summary) **2005b:60236**

— (*with* Kim, Che Soong; Semenova, Olga V.) Optimal multithreshold control of the input flow for the $GI/PH/1$ queueing system with a BMAP flow of negative customers. (Russian. Russian summary) **2005i:60180**

— *see also* **Breuer, Lothar et al., 2005g:60147** *and* **Klimenok, Valentina et al., 2005k:60287**

Dukhovny, Alexander *see* **Abolnikov, Lev, 2005a:60145**

Efrosinin, D. V. (*with* Rykov, Vladimir V.) Numerical investigation of the optimal control of a system with heterogeneous servers. (Russian. Russian summary)

Evdokimovich, V. E. On closed queueing networks with dynamic routing and dynamic probabilistic bypasses of nodes by customers. (Russian. English and Russian summaries) **2005b:60237**

Feldman, R. M. *see* **Matis, T. I.**

Fischer, Martin J. *see* **Shortle, John F. et al., 2005g:60155**

Fong, N. Kh. *see* **Bocharov, P. P. et al., 2005g:60142**

Foss, S. G. (*with* Sapozhnikov, Artyom V.) On the existence of moments for the busy period in a single-server queue. (English summary) **2005f:60198**

Fralix, Brian *see* **Bai, Liwei et al., 2005h:60289**

Gallager, Robert *see* **Prabhakar, Balaji, 2005a:94035**

Ganesh, Ayalvadi (*with* O'Connell, Neil; Wischik, Damon) ★ Big queues. **2005a:60001**

Gavrilov, Evgeny *see* **Bocharov, P. P. et al., 2005g:60144**

Gelenbe, Erol Advances in modelling of complex systems: preface to the special issue.

Gonzalez, Jose A. *see* **Kerbache, Laoucine et al.**

Goswami, V. *see* **Chaudhry, Mohan L. et al., 2005b:68040**

Graham, Carl Functional central limit theorems for a large network in which customers join the shortest of several queues. (English summary) **2005k:60301**

Grassmann, Winfried K. (*with* Tavakoli, Javad) Two-station queueing networks with moving servers, blocking, and customer loss. (English summary)

Gromoll, H. Christian Diffusion approximation for a processor sharing queue in heavy traffic. (English summary) **2005b:60239**

Gross, Donald *see* **Shortle, John F. et al., 2005g:60155**

Guillemin, Fabrice (*with* Robert, Philippe; Zwart, Bert) Tail asymptotics for processor-sharing queues. (English summary) **2005b:60240**

— (*with* Pinchon, Didier) Analysis of generalized processor-sharing systems with two classes of customers and exponential services. (English summary) **2005e:60216**

— (*with* Mazumdar, Ravi R.) Rate conservation laws for multidimensional processes of bounded variation with applications to priority queueing systems. (English summary) **2005e:60193**

— *see also* **Sericola, Bruno et al.**

Guo, Jinli *see* **Shi, Ding Hua et al., 2005k:60049**

Guo, Xing-guo *see* **Yan, Qing-qiang et al.**

Gupta, U. C. (*with* Sikdar, Karabi) A finite capacity bulk service queue with single vacation and Markovian arrival process. **2005j:60168**

— *see also* **Chaudhry, Mohan L. et al., 2005b:68040**

Gupur, Geni Asymptotic property of the solution of $M/M/1$ queueing model with exceptional service time for the first customer in each busy period. (English summary) **2005b:60241**

— Resolvent set of the $M/M^{k,B}/1$ operator. (English and Chinese summaries) **2005h:60274**

Han, Ge *see* **Hou, Xue-Zhang et al.**

Harrison, J. Michael (*with* Zeevi, Assaf) Dynamic scheduling of a multiclass queue in the Halfin-Whitt heavy traffic regime. (English summary) **2005a:90081**

— *see also* **Ata, Barış et al., 2005k:60265**

He, Ning Ka (*with* Yu, Zheng; Hu, Da Xuan) Transient distribution of the length of a

queueing model with input and service dependent on the system state. (Chinese. English and Chinese summaries) **2005h:60275**

Heindl, Armin *see* **Zhang, Qi[3] et al.**

Henrion, Didier (*with* Lasserre, Jean-Bernard) Detecting global optimality and extracting solutions in GloptiPoly. (English summary) **2005j:93003**

Hirayama, Tetsuji (*with* Hong, Sung Jo; Krunz, Marwan M.) A new approach to analysis of polling systems. (English summary) **2005i:60181**

Hochrainer, Stefan (*with* Hochreiter, Ronald; Pflug, Georg Ch.) An algorithm for calculating steady state probabilities of $M/E_r/c/K$ queueing systems. (English summary)

Hochreiter, Ronald *see* **Hochrainer, Stefan et al.**

Hong, Sung Jo *see* **Hirayama, Tetsuji et al., 2005i:60181**

Hordijk, Arie (*with* van der Laan, Dinard) Note on the convexity of the stationary waiting time as a function of the density. (English summary) **2005b:60242**

— (*with* van der Laan, Dinard) The unbalance and bounds on the average waiting time for periodic routing to one queue: the unbalance of routing sequences. (English summary) **2005b:60243**

Hou, Xue-Zhang (*with* Kim, Ohoe; Han, Ge) An operator approach in birth-death process. (English summary)

Hou, Zhen Ting (*with* Liu, Yuanyuan) Explicit criteria for several types of ergodicity of the embedded $M/G/1$ and $GI/M/n$ queues. (English summary) **2005d:60144**

— (*with* Li, Xiao Hua) Ergodicity of quasi-birth and death processes. II. (Chinese. English and Chinese summaries)

Hryniewicz, Olgierd User-preferred solutions of fuzzy optimization problems—an application in choosing user-preferred inspection intervals. (English summary) **2005b:90171**

Hu, Da Xuan *see* **He, Ning Ka et al., 2005h:60275**

Hunt, Emma Ramaswami's duality and probabilistic algorithms for determining the rate matrix for a structured $GI/M/1$ Markov chain. (English summary) **2005k:60285**

Ishizaki, Fumio Decomposition property in a discrete-time queue with multiple input streams and service interruptions. (English summary) **2005m:60210**

Ivnitskiĭ, V. A. On the invariance of the stationary state probabilities of a single-server queueing system of nonproduct form. (Russian. Russian summary) **2005g:60150**

Jagers, A. A. *see* **van Doorn, Erik A., 2005e:60214**

Jelenković, Predrag R. (*with* Momčilović, Petar) Large deviations of square root insensitive random sums. (English summary) **2005h:60276**

— (*with* Mandelbaum, Avishai; Momčilović, Petar) Heavy traffic limits for queues with many deterministic servers. (English summary) **2005k:60286**

Jiang, Tao[3] Local tail asymptotic relations for the stationary waiting time distribution of $GI/G/1/\infty$ queueing system. (Chinese. English and Chinese summaries) **2005j:60169**

Joiner, Laurie L. *see* **Bhaskar, Vidhyacharan et al.**

Joshua, V. C. *see* **Deepak, T. G. et al.**

Kalashnikov, Vladimir *see* **Baum, Dieter, 2005f:60194**

Kato, Nei *see* **Linwong, Pinai et al., 2005e:60217**

Ke, Jau-Chuan *see* **Tadj, Lotfi, 2005m:60215**

Kella, Offer *see* **Bekker, René et al., 2005e:60209**

Kerbache, Laoucine (*with* Norbis, Mario; Gonzalez, Jose A.) Optimal server assignment for a multiple customer classes problem. (English summary)

Kim, Bara *see* **Choi, Bong Dae et al., 2005e:60165** *and* **2005e:60210**

Kim, Che Soong *see* **Dudin, Aleksandr et al., 2005i:60180** *and* **Klimenok, Valentina et al., 2005k:60287**

Kim, Eungab Optimal inventory replenishment policy for a queueing system with finite waiting room capacity. (English summary) **2005k:90004**

Kim, Jin Dong *see* **Chae, Kyung Chul et al.**

Kim, Nam Ki (*with* Chae, Kyung Chul; Chaudhry, Mohan L.) An invariance relation and a unified method to derive stationary queue-length distributions. (English summary)

— *see also* **Chae, Kyung Chul et al., 2005b:60235**

Kim, Ohoe *see* **Hou, Xue-Zhang et al.**

Kim, Sunkyo (*with* Muralidharan, Ravi; O'Cinneide, Colm A.) Taking account of correlations between streams in queueing network approximations. (English summary)

Kim, Tae-Sung[2] *see* **Chang, Seok Ho et al., 2005g:60148**

Klimenok, Valentina (*with* Kim, Che Soong; Orlovskii, Dmitrii S.; Dudin, Aleksandr) Lack of invariant property of the Erlang loss model in case of MAP input. (English summary) **2005k:60287**

— *see also* **Breuer, Lothar et al., 2005g:60147**

Knessl, Charles Some asymptotic results for the $M/M/\infty$ queue with ranked servers. (English summary) **2005m:60211**

— *see also* **Yao, Haishen**

Ko, Sung-Seok (*with* Serfozo, Richard F.) Response times in $M/M/s$ fork-join networks. (English summary) **2005c:60120**

Koba, E. V. A sufficient condition for the ergodicity of an $M/D/1$ T-retrial system with priority for delayed customers. (Russian. English summary) **2005b:60244**

— (*with* Kovalenko, Igor Nikolaevich) The ergodicity condition for the $M/G/1$ retrial system with non-latticed orbit cycle distribution. (Ukrainian. English summary) **2005j:60170**

— A sufficient condition for the stability of a queueing system $GI/D/m$ with T retrials and priority for waiting customers. (Ukrainian. English summary) **2005m:60212**

Koole, Ger (*with* Nain, Philippe) An explicit solution for the value function of a priority queue. (English summary) **2005k:60288**

Kouikoglou, Vassilis S. *see* **Zhang, Runtong et al., 2005f:60005**

Koukoumialos, Stelios (*with* Liberopoulos, George) An analytical method for the performance evaluation of echelon kanban control systems. (English summary)

Kovalenko, Igor Nikolaevich *see* **Koba, E. V., 2005j:60170** *and* **Baum, Dieter, 2005m:60205**

Krishnamoorthy, A. *see* **Deepak, T. G. et al.**

Kruk, Łukasz (*with* Lehoczky, John; Shreve, Steven E.; Yeung, Shu-Ngai) Earliest-deadline-first service in heavy-traffic acyclic networks. (English summary) **2005j:60171**

Krunz, Marwan M. *see* **Hirayama, Tetsuji et al., 2005i:60181**

Kumar, B. Krishna (*with* Pavai Madheswari, S.) An $M/M/2$ queueing system with heterogeneous servers and multiple vacations. (English summary)

— (*with* Pavai Madheswari, S.) Transient analysis of an $M/M/1$ queue subject to catastrophes and server failures. (English summary) **2005j:60172**

Kumar, Sunil[1] *see* **Ata, Barış, 2005k:60283**

van der Laan, Dinard *see* **Hordijk, Arie, 2005b:60242** *and* **2005b:60243**

Larsen, Christian Comparing two socially optimal work allocation rules when having a profit optimizing subcontractor with ample capacity. (English summary) **2005k:90026**

Lasserre, Jean-Bernard Correction: "Bounds on measures satisfying moment conditions" [Ann. Appl. Probab. **12** (2002), no. 3, 1114–1137; MR1925454 (2003g:28012)]. **2005b:28009**

— *see also* **Henrion, Didier, 2005j:93003**

Latouche, Guy *see* **Badescu, Andrei et al., 2005m:60221**

Lebedev, Alekseĭ Viktorovich A gated infinite-server system with heavy traffic and a power tail. (Russian. Russian summary) **2005g:60151**

Lee, Eui Yong *see* **Lee, Ho Woo et al.**

Lee, Ho Woo (*with* Cheon, Sahng Hoon; Lee, Eui Yong; Chae, Kyung Chul) Workload and waiting time analyses of MAP/G/1 queue under D-policy. (English summary)

— (*with* Song, Kyoung Seok) Queue length analysis of $MAP/G/1$ queue under D-policy. (English summary) **2005k:60289**

— *see also* **Chae, Kyung Chul et al.**

Lee, Sang Min *see* **Chae, Kyung Chul et al.**

Lee, Yutae Discrete-time queue with variable service capacity. (English summary)

Lehoczky, John *see* **Kruk, Łukasz et al., 2005j:60171**

Leung, Joseph Y.-T. (*with* Li, Haibing; Pinedo, Michael L.; Sriskandarajah, Chelliah) Open shops with jobs overlap—revisited. (English summary)

Levy, Hanoch *see* **Avi-Itzhak, Benjamin, 2005f:60192**

Li, Haibing *see* **Leung, Joseph Y.-T. et al.**

Li, Quan-Lin (*with* Zhao, Yiqiang Q.) A $MAP/G/1$ queue with negative customers. (English summary) **2005f:60203**

Li, Xiao Hua *see* **Hou, Zhen Ting**

Liberopoulos, George *see* **Koukoumialos, Stelios**

Linwong, Pinai (*with* Kato, Nei; Nemoto, Yoshiaki) A polynomial factorization approach for the discrete time $GI^X/G/1/K$ queue. (English summary) **2005e:60217**

Liu, Cun Xia (*with* Lü, Wen) Global stability of a class of generalized queueing networks. (Chinese. English and Chinese summaries) **2005i:60183**

— (*with* Lü, Wen) Global stability condition of Niño-Mora and Glazebrook and stability of a class of queueing networks. (Chinese. English and Chinese summaries)

Liu, Liming *see* **Bai, Liwei et al., 2005h:60289** *and* **Shi, Ding Hua et al., 2005k:60049**

Liu, Yu Min[2] (*with* Yuan, Wen Zhi; Wang, Ming Sheng[3]) An ordinary differential equation of the $M/M/n$ model with impatient customers. (Chinese. English and Chinese summaries)

Liu, Yuanyuan *see* **Hou, Zhen Ting, 2005d:60144**

Lu, Lin Zhang (*with* Ching, Wai Ki; Ng, Michael K.) Exact algorithms for singular tridiagonal systems with applications to Markov chains. (English summary) **2005e:15002**

Lü, Wen *see* **Liu, Cun Xia, 2005i:60183**

Madan, Kailash C. (*with* Abu Al-Rub, Adel Z.) On a single server queue with optional phase type server vacations based on exhaustive deterministic service and a single vacation policy. (English summary) **2005a:60149**

— (*with* Abu Al-Rub, Adel Z.) Transient and steady state solution of a single server queue with modified Bernoulli schedule vacations based on exhaustive service and a single vacation policy. (English and Spanish summaries)

— (*with* Al-Rawwash, Mohammad) On the $M^x/G/1$ queue with feedback and optional server vacations based on a single vacation policy. (English summary)

Majewski, Kurt Large deviation bounds for single class queueing networks and their calculation. (English summary) **2005h:60079**

Mandelbaum, Avishai *see* **Jelenković, Predrag R. et al., 2005k:60286**

Mandjes, Michel *see* **Dębicki, Krzysztof, 2005e:60211** *and* **Zwart, Bert et al., 2005e:60226**

Manzo, Rosanna *see* **Bocharov, P. P. et al., 2005g:60142** *and* **D'Apice, Ciro et al., 2005m:60206**

Mao, Yong *see* **Tang, Ying Hui, 2005m:60216**

Masi, Denise M. B. *see* **Shortle, John F. et al., 2005g:60155**

Matis, T. I. (*with* Feldman, R. M.) Correction: "Transient analysis of state-dependent queueing networks via cumulant functions" [J. Appl. Probab. **38** (2001), no. 4, 841–859; MR1876543 (2002i:60172)].

Mazumdar, Ravi R. *see* **Guillemin, Fabrice, 2005e:60193**

Medya, Bidyut K. Behaviour of passage time for a queueing network model with feedback: a simulation study. (English summary) **2005i:60185**

Mikhalevich, K. V. A comparison of a classical retrial $M/G/1$ queueing system and a Lakatos-type $M/G/1$ cyclic-waiting time queueing system. (English summary) **2005g:60153**

Miyazawa, Masakiyo Hitting probabilities in a Markov additive process with linear movements and upward jumps: applications to risk and queueing processes. (English summary) **2005b:60196**

— A Markov renewal approach to $M/G/1$ type queues with countably many background states. (English summary) **2005h:60281**

— *see also* **van Dijk, Nico M., 2005e:60212**

Miyoshi, Naoto On the subexponential properties in stationary single-server queues: a Palm-martingale approach. (English summary) **2005g:60152**

— (*with* Rolski, Tomasz) Ross-type conjectures on monotonicity of queues. (English summary) **2005k:60291**

Momčilović, Petar *see* **Jelenković, Predrag R. et al., 2005h:60276** *and* **2005k:60286**

Moon, Jeongseung (*with* Wardi, Yorai) Optimal control of processing times in single-stage discrete event dynamic systems with blocking. (English summary) **2005m:93097**

Moreno, Pilar A queueing system with exceptional first service, feedback and service times of phase type. (English summary) **2005h:60282**

— *see also* **Atencia, Ivan, 2005f:60191**

Morozov, Evsei Weak regeneration in modeling of queueing processes. (English summary) **2005c:60124**

Muralidharan, Ravi *see* **Kim, Sunkyo et al.**

Nain, Philippe *see* **Koole, Ger, 2005k:60288**

Nelson, Barry L. (*with* Taaffe, Michael R.) The $Ph_t/Ph_t/\infty$ queueing systems. I. The single node. (English summary)

— (*with* Taaffe, Michael R.) The $[Ph_t/Ph_t/\infty]^K$ queueing system. II. The multiclass

network. (English summary)
Nemoto, Yoshiaki *see* **Linwong, Pinai et al., 2005e:60217**
Ng, Michael K. *see* **Lu, Lin Zhang et al., 2005e:15002**
Norbis, Mario *see* **Kerbache, Laoucine et al.**
O'Cinneide, Colm A. *see* **Kim, Sunkyo et al.**
O'Connell, Neil *see* **Ganesh, Ayalvadi et al., 2005a:60001**
Omosigho, S. E. On stochastic model of series and parallel queueing system. (English summary) **2005b:60245**
Orlovskii, Dmitrii S. *see* **Klimenok, Valentina et al., 2005k:60287**
Örmeci, E. Lerzan Dynamic admission control in a call center with one shared and two dedicated service facilities. (English summary) **2005d:90134**
Ozawa, Toshihisa Analysis of queues with Markovian service processes. (English summary) **2005d:60147**
Özbay, Hitay *see* **Quet, Pierre-François, 2005a:90026**
Palmowski, Zbigniew *see* **Ayhan, Hayriye et al., 2005d:60143**
Panayiotou, Christos G. *see* **Sun, Gang[1] et al., 2005i:60188**
Park, Yonil (*with* Spouge, John L.) Searching for multiple words in a Markov sequence. (English summary)
Parrilo, Pablo A. Exploiting algebraic structure in sum of squares programs. (English summary) **2005i:93038**
Parthasarathy, P. R. (*with* Selvaraju, N.) Transient analysis of a queue where potential customers are discouraged by queue length. (English summary) **2005c:60125**
Paschalidis, Ioannis Ch. (*with* Su, Chang[2]; Caramanis, Michael C.) Target-pursuing scheduling and routing policies for multiclass queueing networks. (English summary) **2005d:90054**
Paul, Madhuchanda *see* **Choudhury, Gautam**
Pavai Madheswari, S. *see* **Kumar, B. Krishna, 2005j:60172**
Pechinkin, Alexandre *see* **Bocharov, P. P. et al., 2005g:60143**; **2005g:60144** *and* **D'Apice, Ciro et al., 2005m:60206**
Pflug, Georg Ch. *see* **Hochrainer, Stefan et al.**
Phillis, Yannis A. *see* **Zhang, Runtong et al., 2005f:60005**
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Pinchon, Didier *see* **Guillemin, Fabrice, 2005e:60216**
Pinedo, Michael L. *see* **Leung, Joseph Y.-T. et al.**
Piunovskiĭ, A. B. Bicriteria optimization of a queue with a controlled input stream. (English summary) **2005f:60204**
Prabhakar, Balaji (*with* Gallager, Robert) Entropy and the timing capacity of discrete queues. (English summary) **2005a:94035**
Pucci de Farias, Daniela (*with* Van Roy, Benjamin) On constraint sampling in the linear programming approach to approximate dynamic programming. (English summary) **2005b:90149**
Pukhal'skiĭ, A. A. (*with* Reiman, Martin I.) Correction: "The multiclass $GI/PH/N$ queue in the Halfin-Whitt regime" [Adv. in Appl. Probab. **32** (2000), no. 2, 564–595; MR1778580 (2002g:60155)]. **2005e:60218**
Quet, Pierre-François (*with* Özbay, Hitay) On the design of AQM supporting TCP flows using robust control theory. (English summary) **2005a:90026**
Rabehasaina, Landy (*with* Sericola, Bruno) A second-order Markov-modulated fluid queue with linear service rate. (English summary) **2005m:60213**
Reiman, Martin I. *see* **Pukhal'skiĭ, A. A., 2005e:60218**
Remiche, Marie-Ange *see* **Badescu, Andrei et al., 2005m:60221**
Renshaw, Eric *see* **Chen, Anyue, 2005b:60199**
Robert, Philippe ★ Réseaux et files d'attente: méthodes probabilistes. (French) [Networks and queues: probabilistic methods] **2005h:60002**
— *see also* **Guillemin, Fabrice et al., 2005b:60240**
Rolski, Tomasz *see* **Miyoshi, Naoto, 2005k:60291**
Rosson, Hong-Tham T. (*with* Dshalalow, Jewgeni H.) A non-Markovian queueing system with a variable number of channels. (English summary) **2005b:60247**
Roy, Rahul *see* **Athreya, Siva R. et al., 2005d:60018**
Rykov, Vladimir V. *see* **Efrosinin, D. V.**
Salerno, Saverio *see* **Bocharov, P. P. et al., 2005g:60143**
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Sarkar, Anish *see* **Athreya, Siva R. et al., 2005d:60018**
Savenkov, T. Yu. On the $M_2|G_2|1|\infty$ queue with relative dynamic priorities. **2005h:60286**
Schlegel, Sabine *see* **Ayhan, Hayriye et al., 2005d:60143**
Selvaraju, N. *see* **Parthasarathy, P. R., 2005c:60125**
Semenova, Olga V. An optimal threshold control of the system $BMAP/SM/1$ with a MAP flow of disasters. (Russian. Russian summary) **2005h:60287**
— *see also* **Dudin, Aleksandr et al., 2005i:60180**
Serfozo, Richard F. *see* **Ko, Sung-Seok, 2005c:60120**
Sericola, Bruno (*with* Guillemin, Fabrice; Boyer, Jacqueline) Sojourn times in the $M/PH/1$ processor sharing queue. (English summary)
— *see also* **Rabehasaina, Landy, 2005m:60213**
Sethuraman, Jay (*with* Teo, Chung-Piaw) Effective routing and scheduling in adversarial queueing networks. (*see* **2005b:68007**)
Shang, Weixin *see* **Bai, Liwei et al., 2005h:60289**
Shawky, A. I. The service Erlangian machine interference model: $M/E_r/1/k/N$ with balking and reneging. (English summary)
Shepp, Larry A. *see* **Ata, Barış et al., 2005k:60265**
Shevlyakov, G. L. *see* **Avrachenkov, Konstantin E. et al., 2005f:60193**
Shi, Ding Hua (*with* Guo, Jinli; Liu, Liming) On the SPH-distribution class. (English summary) **2005k:60049**
— *see also* **Yan, Qing-qiang et al.**
Shortle, John F. (*with* Brill, Percy H.; Fischer, Martin J.; Gross, Donald; Masi, Denise M. B.) An algorithm to compute the waiting time distribution for the $M/G/1$ queue. (English summary) **2005g:60155**
— Piecewise polynomial approximations for heavy-tailed distributions in queueing analysis. (English summary)
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da Silva Soares, Ana *see* **Badescu, Andrei et al., 2005m:60221**
Simonyan, A. R. (*with* Ulitina, E. I.) A theorem on the convergence to a stable law in the $M/G/1/\infty$ model. (Russian) **2005i:60187**
Smirni, Evgenia *see* **Zhang, Qi[3] et al.**
Song, Kyoung Seok *see* **Lee, Ho Woo, 2005k:60289**
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Sriskandarajah, Chelliah *see* **Leung, Joseph Y.-T. et al.**
Stanford, David A. *see* **Badescu, Andrei et al., 2005m:60221**
Stolyar, A. L. Control of end-to-end delay tails in a multiclass network: LWDF discipline optimality. (English summary) **2005g:60046**
— Maxweight scheduling in a generalized switch: state space collapse and workload minimization in heavy traffic. (English summary) **2005a:60151**
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Su, Jian *see* **Yin, Xiao Ling[1], 2005j:60177**
Sukhov, Yu. M. *see* **Vvedenskaya, N. D., 2005g:90023**
Sun, Gang[1] (*with* Cassandras, Christos G.; Panayiotou, Christos G.) Perturbation analysis of multiclass stochastic fluid models. (English summary) **2005i:60188**
Sztrik, János Asymptotic analysis of complex, Markov-modulated computer and communication systems. (English summary) **2005b:60248**
Taaffe, Michael R. *see* **Nelson, Barry L.**
Tadj, Lotfi On an $M^1, M^2/G^r/1$ queueing system. (English summary) **2005c:60126**
— (*with* Ke, Jau-Chuan) Control policy of a hysteretic bulk queueing system. (English summary) **2005m:60215**
Takagi, Hideaki *see* **Wu, De-An, 2005a:60152**
Takine, Tetsuya Single-server queues with Markov-modulated arrivals and service speed. (English summary) **2005k:60294**
Tang, Ying Hui (*with* Mao, Yong) Stochastic decomposition for $M/G/1$ queues with p-entering discipline during server vacations. (Chinese. English and Chinese summaries) **2005m:60216**
Tatashev, A. G. Stationary state probabilities of a queueing system with an inverse discipline and three types of customers. (Russian. English and Ukrainian summaries) **2005j:60176**
Tavakoli, Javad *see* **Grassmann, Winfried K.**
Teo, Chung-Piaw *see* **Sethuraman, Jay, (2005b:68007)**
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Ulitina, E. I. *see* **Simonyan, A. R., 2005i:60187**
Vandaele, N. J. *see* **Van Nyen, P. L. M. et al.**
Van Houdt, B. (*with* Blondia, C.) Approximated transient queue length and waiting time distributions via steady state analysis. (English summary)
— *see also* **Van Velthoven, J. et al.**
Van Nyen, P. L. M. (*with* Bertrand, J. W. M.; Van Ooijen, H. P. G.; Vandaele, N. J.) A heuristic to control integrated multi-product multi-machine production-inventory systems with job shop routings and stochastic arrival, set-up and processing times. (English summary)
Van Ooijen, H. P. G. *see* **Van Nyen, P. L. M. et al.**
Van Roy, Benjamin *see* **Pucci de Farias, Daniela, 2005b:90149**
Van Velthoven, J. (*with* Van Houdt, B.; Blondia, C.) Response time distribution in a $D\text{-}MAP/PH/1$ queue with general customer impatience. (English summary)
Vilchevskii, N. O. *see* **Avrachenkov, Konstantin E. et al., 2005f:60193**
van Vuuren, Marcel (*with* Adan, Ivo J. B. F.) Approximating the $\Sigma GI/G/s$ queue by using aggregation and matrix analytic methods. (English summary)
Vvedenskaya, N. D. (*with* Sukhov, Yu. M.) Functional equations that arise in asymptotic problems for communication networks. (Russian. Russian summary) **2005g:90023**
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Wan, Yat-wah *see* **Chen, Hong[3], 2005h:91054**
Wang, Chia-Li (*with* Wolff, Ronald W.) Work-conserving tandem queues. (English summary)
Wang, Jinting An $M/G/1$ queue with second optional service and server breakdowns. (English summary) **2005e:60221**
Wang, Ming Sheng[3] *see* **Liu, Yu Min[2] et al.**
Wang, Tie-Ying *see* **Wei, Cai-Min et al.**
Wardi, Yoraï *see* **Moon, Jeongseung, 2005m:93097**
Wei, Cai-Min (*with* Wang, Tie-Ying; Xia, Zun Quan) Modelling and analysis of a continuous queueing system with multiple adaptive vacations and set-up time. (English summary)
White, Langford B. A new policy evaluation algorithm for Markov decision processes with quasi birth-death structure. (English summary)
Whitt, Ward Heavy-traffic limits for loss proportions in single-server queues. (English summary) **2005c:60127**
Wischik, Damon *see* **Ganesh, Ayalvadi et al., 2005a:60001**
Wolff, Ronald W. *see* **Wang, Chia-Li**
Wu, De-An (*with* Takagi, Hideaki) A queue with semi-Markovian batch plus Poisson arrivals with application to the MPEG frame sequence. (English summary) **2005a:60152**
Xia, Cathy H. *see* **Chang, Junxia et al., 2005h:90053**
Xia, Zun Quan *see* **Wei, Cai-Min et al.**
Yan, Qing-qiang (*with* Shi, Ding Hua; Guo, Xing-guo) A new vector Markov process for $M/G/1$ queue. (English summary)
Yao, Haishen (*with* Knessl, Charles) On the infinite server shortest queue problem: symmetric case. (English summary)
Yeung, Shu-Ngai *see* **Kruk, Łukasz et al., 2005j:60171**
Yin, Xiao Ling[1] (*with* Su, Jian) Double-ended queueing systems with negative customers. (Chinese. English and Chinese summaries) **2005j:60177**
Yoon, Bong K. *see* **Chae, Kyung Chul et al., 2005b:60235**
Yoshioka, Yoshio An analysis of a closed loop type queueing system with a general service distribution. (Japanese. English and Japanese summaries) **2005m:60220**
Yu, Hai Bo The $GI/Geom/1$ discrete-time queues with service vacations. (Chinese. English and Chinese summaries) **2005e:60224**
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Yuan, Wen Zhi *see* **Liu, Yu Min[2] et al.**
Zeevi, Assaf *see* **Harrison, J. Michael, 2005a:90081**

Zhang, Qi[3] (*with* Heindl, Armin; Smirni, Evgenia) Characterizing the $BMAP/MAP/1$ departure process via the ETAQA truncation. (English summary)
Zhang, Runtong (*with* Phillis, Yannis A.; Kouikoglou, Vassilis S.) ★ Fuzzy control of queuing systems. **2005f:60005**
Zhao, Yiqiang Q. *see* **Li, Quan-Lin, 2005f:60203**
Zhu, Dongbi *see* **Choi, Bong Dae et al., 2005e:60210**
Zwart, Bert (*with* Borst, S. C.; Mandjes, Michel) Exact asymptotics for fluid queues fed by multiple heavy-tailed on-off flows. (English summary) **2005e:60226**
— *see also* **Guillemin, Fabrice et al., 2005b:60240** *and* **Bekker, René, 2005j:60164**

Items listed otherwise than by author

Lecture Notes in Mathematics *see* **Ganesh, Ayalvadi et al., 2005a:60001**

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Akiba, Tomoaki *see* **Yamamoto, Hisashi, 2005i:90016**
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Anisimov, Vladimir V. Asymptotic analysis of stochastic block replacement policies for multicomponent systems in a Markov environment. (English summary) **2005f:90037**
Ansell, P. S. *see* **Glazebrook, Kevin D. et al.**
Azaron, Amir (*with* Katagiri, Hideki; Sakawa, Masatoshi; Modarres, Mohammad) Reliability function of a class of time-dependent systems with standby redundancy. (English summary) **2005h:90027**
Baghel, K. P. S. *see* **Jain, Madhu et al.**
Bang, Young-Cheol (*with* Choo, Hyunseung; Mun, Youngsong) Reliability problem on all pairs quickest paths. (English summary) **2005h:90028**
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Bueno, Vanderlei Costa Minimal standby redundancy allocation in a k-out-of-n:F system of dependent components. (English summary) **2005j:90016**
Cattrysse, Dirk *see* **Wong, Hartanto et al.**
Cerone, Pietro *see* **Summit, Raymond**
Cha, Ji Hwan (*with* Lee, Sangyeol; Mi, Jie) Bounding the optimal burn-in time for a system with two types of failure. (English summary) **2005g:90031**
Chander, Suresh Reliability models with priority for operation and repair with arrival time of server. (English summary)
Chandrasekhar, P. (*with* Natarajan, Ramaswamy; Yadavalli, V. S. S.) A study on a two unit standby system with Erlangian repair time. (English summary)
Chang, Horng-Jinh (*with* Dye, Chung-Yuan) The effect of credit period on the optimal lot size for deteriorating items with time varying demand and deterioration rates. (English summary) **2005m:90024**
Chang, Ping-Teng Fuzzy strategic replacement analysis. (English summary) **2005g:90032**
Chen, Miao-Sheng *see* **Lan, Chun-Hsiung et al., 2005e:90027**
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Cheng, Mei-Chuan *see* **Teng, Jinn-Tsair et al., 2005i:90015**
Childress, Suzanne (*with* Durango-Cohen, Pablo) On parallel machine replacement problems with general replacement cost functions and stochastic deterioration. (English summary)
Chiu, Singa Wang (*with* Gong, Dah-Chuan; Wee, Hui-Ming) Effects of random defective rate and imperfect rework process on economic production quantity model. (English summary)
Choo, Hyunseung *see* **Bang, Young-Cheol et al., 2005h:90028**
Chuang, Chung-Chu (*with* Chuang, Shuo-Li) The impacts of warrants issuance on the price and trading volumes of the underlying stock: the call warrants case of Taiwan stock exchange. (English summary)
Chuang, Shuo-Li *see* **Chuang, Chung-Chu**
Chukova, Stefanka *see* **Dimitrov, Boyan N. et al., 2005m:90025**
Chung, Kun-Jen (*with* Huang, T'ien Shou) A simple algorithm to determine the optimal inspection interval. (English summary) **2005d:90036**
— (*with* Huang, T'ien Shou) The optimal cycle time for deteriorating items under permitted delay of payment. (English summary)
Conforto, Paolo (*with* Delli Priscoli, Francesco) Routing and dynamic resource assignment joint game: a non-cooperative model for QoS routing. (English summary)
Csenki, Attila Marginal cost analysis of single-item maintenance policies with several decision variables. (English summary) **2005a:90043**
Cui, Lirong (*with* Xie, Min[1]) On a generalized k-out-of-n system and its reliability. (English summary) **2005k:90019**
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Dai, Yuanshun *see* **Xie, Min[1] et al.**
Dakhly, A. I. *see* **Habib, Aziz Shafik Mohamed**
Dedkov, V. K. ★ Обратная задача теории надежности. (Russian) [The inverse problem in reliability theory]
Delli Priscoli, Francesco *see* **Conforto, Paolo**
Demetriu, Sorin *see* **Trandafir, Romică et al.**
Dharmadhikari, A. D. (*with* Rahman, Md. Monsur) A model for step-stress accelerated life testing. (English summary) **2005b:90031**
Dimitrov, Boyan N. (*with* Rykov, Vladimir V.) On reliability of hierarchical systems with gradual failures. **2005e:90024**
— (*with* Chukova, Stefanka; Khalil, Zohel) Warranty costs: an age-dependent failure/repair model. (English summary) **2005m:90025**
Dohi, T. (*with* Iwamoto, K.; Kaio, N.; Osaki, S.) A generalized discrete-time order replacement model. (English summary) **2005a:90044**
— *see also* **Giri, Bibhas Chandra et al.**
Durango-Cohen, Pablo *see* **Childress, Suzanne**
Dye, Chung-Yuan A note on: "An EOQ model for items with Weibull distributed deterioration, shortages and power demand pattern" [Internat. J. Inform. Management Sci. **13** (2002), no. 2, 19–34; MR1902084 (2003d:90024)] by W.-C. Lee and J.-W. Wu. (English summary) **2005b:90032**
— *see also* **Chang, Horng-Jinh, 2005m:90024**
Ebrahimi, Nader System reliability based on diffusion models for fatigue crack growth. (English summary) **2005g:90033**
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Elkins, Debra A. *see* **Wortman, M. A., 2005k:90023**
Ghoraf, N. (*with* Boushaba, M.) Fast formula of a reliability of m-consecutive-k-out-of-n: F system with cycle k. (English summary) **2005e:90025**
Giglio, Beatrice (*with* Wynn, Henry P.) Monomial ideals and the Scarf complex for coherent systems in reliability theory. (English summary) **2005c:90021**
Girard, André *see* **Sansò, Brunilde et al.**
Giri, Bibhas Chandra (*with* Yun, W. Y.; Dohi, T.) Optimal design of unreliable production-inventory systems with variable production rate. (English summary)
Glazebrook, Kevin D. (*with* Mitchell, H. M.; Ansell, P. S.) Index policies for the maintenance of a collection of machines by a set of repairmen. (English summary)
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Gong, Weibo *see* **Xiong, Jintao, 2005k:90024**
Guo, Wei Hua *see* **Xu, Hou Bao**
Gupur, Geni *see* **Haji, Abdukerim**
Habib, Aziz Shafik Mohamed (*with* Dakhly, A. I.) Algorithms for calculation of the reliability bounds of linear connected-(r, s)-out-of-(m, n): F lattice system. (English summary)
Hajeeh, Mohammed Analysis of a repairable system subjected to multiple modes of failure. (English summary)
Haji, Abdukerim (*with* Gupur, Geni) Asymptotic property of the solution of a reliability model. (English summary)
Hartman, Joseph C. Multiple asset replacement analysis under variable utilization and stochastic demand. (English summary) **2005j:90017**
Higashiyama, Y. A method for exact reliability of consecutive 2-out-of-(r, r)-from-(n, n):F systems. (English summary) **2005a:90045**
Hirst, A. J. *see* **Latif-Shabgahi, G.**
Ho, Linda Lee Estimating structural reliability in the presence of covariates via Bayesian methods. (English summary)
Hsieh, Chung-Chi (*with* Lee, Zong-Zhe) Joint determination of production run length and number of standbys in a deteriorating production process. (English summary) **2005g:90034**
Hsieh, Yi-Chih (*with* Chen, Ta-Cheng) Reliability lower bounds for two-dimensional consecutive-k-out-of-n : F systems. (English summary) **2005a:90046**
Huang, Chun-Jung The convexity and bounds on optimal cycle time for the EOQ model with obsolescent items. (English summary) **2005c:90022**
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Ip, W. H. *see* **Liu, Yan Qiu et al.**
Irani, Sandy (*with* Lu, Xiangwen; Regan, Amelia) On-line algorithms for the dynamic traveling repair problem. (English summary) **2005b:90033**
Irgens, Christian (*with* Paulsen, Jostein) Maximizing terminal utility by controlling risk exposure: a discrete-time dynamic control approach. (English summary) **2005k:90020**
Iskandar, B. P. (*with* Murthy, D. N. P.; Jack, N.) A new repair-replace strategy for items sold with a two-dimensional warranty. (English summary)
Iwamoto, K. *see* **Dohi, T. et al., 2005a:90044**
Jack, N. *see* **Iskandar, B. P. et al.**
Jain, Madhu (*with* Sharma, G. C.; Baghel, K. P. S.) Interdependent machining system with spares, controllable arrival rates and additional repairmen. (English summary)
— (*with* Priya, Kriti) Software reliability issues under operational and testing constraints. (English summary)
Jha, P. C. *see* **Kapur, P. K. et al.**
Jiang, Ming Hui[2] UPS-k: a set partitioning problem with applications in UPS pickup-delivery system.
Juang, Muh-Guey (*with* Anderson, Gary T.) A Bayesian method on adaptive preventive maintenance problem. (English summary) **2005i:90013**
Kaio, N. *see* **Dohi, T. et al., 2005a:90044**
Kapur, P. K. (*with* Jha, P. C.; Bardhan, A. K.) Optimal allocation of testing resource for a modular software. (English summary)
Katagiri, Hideki *see* **Azaron, Amir et al., 2005h:90027**
Khalil, Zohel *see* **Dimitrov, Boyan N. et al., 2005m:90025**
Kharmanda, G. (*with* El-Hami, A.; Olhoff, N.) Global reliability-based design optimization. (English summary) (*see* **2005a:90005**)
Kim, Kyungmee O. (*with* Kuo, Way) A unified model incorporating yield, burn-in, and reliability. (English summary) **2005e:90026**
Kleindorfer, Paul R. *see* **Papadakis, Ioannis S., 2005f:90038**
Kozłowska, Jadwiga Analysis of the reliability of any-hop star network. (English summary)
Kuo, Way (*with* Rajendra Prasad, V.) System reliability optimization: an overview. (English summary) (*see* **2005a:62018**)
— *see also* **Kim, Kyungmee O., 2005e:90026**
Lai, C. D. *see* **Xie, Min[1] et al.**
Lam, Yeh A geometric process maintenance model. (English summary) **2005b:90034**
— (*with* Zhang, Yuan Lin) A shock model for the maintenance problem of a repairable system. (English summary) **2005d:90037**
Lan, Chun-Hsiung (*with* Chen, Miao-Sheng; Yu, Chien) The control of a serial-capacitated production line for cost optimization. (English summary) **2005e:90027**
Latif-Shabgahi, G. (*with* Hirst, A. J.) A fuzzy voting scheme for hardware and software fault tolerant systems. (English summary)
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Levitin, Gregory Optimal version sequencing in fault-tolerant programs. (English

summary)
— Uneven allocation of elements in linear multi-state sliding window system. (English summary) **2005g:90035**
— Reliability of linear multistate multiple sliding window systems. (English summary) **2005k:90021**
Li, Gang[7] (*with* Luo, Jiaowan) Shock model in Markovian environment. (English summary) **2005i:90014**
Li, Haijun (*with* Xu, Susan H.) On the coordinated random group replacement policy in multivariate repairable systems. (English summary) **2005c:90023**
Lin, Cheng-Yi Optimization of maintenance, production and inspection strategies while considering preventative maintenance error. (English summary)
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Liu, Yan[5] *see* **Tang, Ying Hui**
Liu, Yan Qiu (*with* Zhang, Ying; Wang, Ding Wei; Ip, W. H.) Model and algorithm of reliability evaluation for complex device networks. (Chinese. English and Chinese summaries)
Liu, Yi-Chun *see* **Wang, Kuo-Hsiung et al.**, **2005k:90022**
Lu, Xiangwen *see* **Irani, Sandy et al.**, **2005b:90033**
Luo, Jiaowan *see* **Li, Gang**[7], **2005i:90014**
Mamabolo, R. M. (*with* Beichelt, F. E.) Maintenance policies with minimal repair. (English summary) **2005g:90037**
Martin, Donald E. K. Markovian start-up demonstration tests with rejection of units upon observing d failures. (English summary) **2005d:90038**
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Murthy, D. N. P. *see* **Iskandar, B. P. et al.**
Natarajan, Ramaswamy *see* **Chandrasekhar, P. et al.**
Newby, Martin (*with* Dagg, Richard) Optimal inspection and perfect repair. (English summary) **2005d:90040**
Olhoff, N. *see* **Kharmanda, G. et al.**, (**2005a:90005**)
van Ommeren, Jan-Kees C. W. *see* **Spanjers, Lieneke et al.**
Osaki, S. *see* **Dohi, T. et al.**, **2005a:90044**
Ouyang, Liang-Yuh *see* **Teng, Jinn-Tsair et al.**, **2005i:90015**
Papadakis, Ioannis S. (*with* Kleindorfer, Paul R.) Optimizing infrastructure network maintenance when benefits are interdependent. (English summary) **2005f:90038**
Paulsen, Jostein *see* **Irgens, Christian**, **2005k:90020**
Pearn, Wen Lea *see* **Wang, Kuo-Hsiung et al.**, **2005k:90022**
Pogoruĭ, A. A. Estimation of the stationary efficiency of a two-phase system with two storages. (Russian. English, Russian and Ukrainian summaries)
Poh, K. L. *see* **Xie, Min**[1] **et al.**
Polesskiĭ, V. P. Untying of clutter-family supports and its role in the theory of the reliability of monotone structures. (Russian. Russian summary) **2005h:90029**
Priya, Kriti *see* **Jain, Madhu**
Rahman, Md. Monsur *see* **Dharmadhikari, A. D.**, **2005b:90031**
Rajendra Prasad, V. *see* **Kuo, Way**, (**2005a:62018**)
Ravi, Vadlamani Optimization of complex system reliability by a modified great deluge algorithm. (English summary)
Regan, Amelia *see* **Irani, Sandy et al.**, **2005b:90033**
Rykov, Vladimir V. *see* **Dimitrov, Boyan N.**, **2005e:90024**
Sakawa, Masatoshi *see* **Azaron, Amir et al.**, **2005h:90027**
Sampath Kumar, V. S. (*with* Sarma, K. V. S.; Sekhar, K.) The least cost testing sequence problem. (English summary)
Sanjuán, E. L. *see* **Torres-Castro, Inmaculada**, **2005e:90030**
Sansò, Brunilde (*with* Girard, André; Mobiot, Florent) Integrating reliability and quality of service in networks with switched virtual circuits. (English summary)
Sarma, K. V. S. *see* **Sampath Kumar, V. S. et al.**
Sekhar, K. *see* **Sampath Kumar, V. S. et al.**
Shaked, Moshe *see* **Belzunce, Félix**, **2005e:90023**
Sharma, G. C. *see* **Jain, Madhu et al.**
Sheu, Shey-Huei (*with* Yu, Shiueh-Ling) Warranty strategy accounts for bathtub failure rate and random minimal repair cost. (English summary)
Shumskaya, A. A. Accelerated modeling of the unavailability coefficient in a repairable system with an estimate that is bounded with respect to error. (Russian. English and Ukrainian summaries) **2005e:90028**
Song, Yuyue (*with* Lau, Hoong Chuin) A periodic-review inventory model with application to the continuous-review obsolescence problem. (English summary) **2005e:90029**
Spanjers, Lieneke (*with* van Ommeren, Jan-Kees C. W.; Zijm, W. H. M.) Closed loop two-echelon repairable item systems. (English summary)
(Suh, Nam P.) *see* **El-Haik, Basem Said**, **2005m:90026**
Summit, Raymond (*with* Cerone, Pietro) Costing a new car warranty. (English summary)
Sun, Yan Rui (*with* Zhang, Xiang De) Efficient algorithm for computing reliability of acyclic directed networks. (Chinese. English and Chinese summaries)
Tang, Ying Hui (*with* Liu, Yan[5]) Reliability analysis of a two-different-unit cold standby repairable system with delay repair. (Chinese. English and Chinese summaries)
Teng, Jinn-Tsair (*with* Ouyang, Liang-Yuh; Cheng, Mei-Chuan) An EOQ model for deteriorating items with power-form stock-dependent demand. (English summary) **2005i:90015**
Torres-Castro, Inmaculada (*with* Sanjuán, E. L.) Power processes and their application to reliability. (English summary) **2005e:90030**
Trandafir, Romică (*with* Demetriu, Sorin; Mierluş-Mazilu, Ion) Determination of reliability bounds for structural systems using linear programming. (English summary)
Valigi, Paolo *see* **Martinelli, Francesco**, **2005d:90039**
Van Oudheusden, Dirk *see* **Wong, Hartanto et al.**
Walkowiak, Krzysztof A new approach to survivability of connection oriented networks. (English summary) (*see* **2005c:00014**)
Wang, Ding Wei *see* **Liu, Yan Qiu et al.**
Wang, Guan Jun[1] (*with* Zhang, Yuan Lin) A shock model with two-type failures and optimal replacement policy. (English summary)
Wang, Kuo-Hsiung (*with* Liu, Yi-Chun; Pearn, Wen Lea) Cost benefit analysis of series systems with warm standby components and general repair time. (English summary) **2005k:90022**
Wang, Wen-Ying Integrated inspection strategy model with inspection errors and positive inspection time lengths. (English summary)
Wee, Hui-Ming *see* **Chiu, Singa Wang et al.**
Wong, Hartanto (*with* Cattrysse, Dirk; Van Oudheusden, Dirk) Inventory pooling of repairable spare parts with non-zero lateral transshipment time and delayed lateral transshipments. (English summary)
Wortman, M. A. (*with* Elkins, Debra A.) Stochastic modeling for computational warranty analysis. (English summary) **2005k:90023**
(Wu, Jong-Wuu) *see* **Dye, Chung-Yuan**, **2005b:90032**
Wynn, Henry P. *see* **Giglio, Beatrice**, **2005c:90021**
Xie, Min[1] (*with* Dai, Yuanshun; Poh, K. L.; Lai, C. D.) Optimal number of hosts in a distributed system based on cost criteria. (English summary)
— *see also* **Cui, Lirong**, **2005k:90019**
Xiong, Jintao (*with* Gong, Weibo) A novel algorithm on network reliability estimation. (English summary) **2005k:90024**
Xu, Hou Bao (*with* Guo, Wei Hua) Asymptotic stability of a parallel repairable system with warm standby. (English summary)
Xu, Susan H. *see* **Li, Haijun**, **2005c:90023**
Yadavalli, V. S. S. *see* **Chandrasekhar, P. et al.**
Yamamoto, Hisashi (*with* Akiba, Tomoaki) Evaluating methods for the reliability of a large 2-dimensional rectangular k-within-consecutive-(r, s)-out-of-(m, n): F system. (English summary) **2005i:90016**
Yu, Chien *see* **Lan, Chun-Hsiung et al.**, **2005e:90027**
Yu, Shiueh-Ling *see* **Sheu, Shey-Huei**
Yuan, Xue-Ming (*with* Liu, Liming) Performance analysis of assembly systems with unreliable machines and finite buffers. (English summary) **2005g:90038**
Yun, W. Y. *see* **Giri, Bibhas Chandra et al.**
Zequeira, Rómulo I. (*with* Bérenguer, C.) Optimal inspection policies with predictive and preventive maintenance. (English summary)
Zhang, Xiang De *see* **Sun, Yan Rui**
Zhang, Ying *see* **Liu, Yan Qiu et al.**
Zhang, Yuan Lin *see* **Lam, Yeh**, **2005d:90037** *and* **Wang, Guan Jun**[1]
Zijm, W. H. M. *see* **Spanjers, Lieneke et al.**

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Abdellha, M. H. *see* **Mahdy, Y. B. et al.**, **2005f:68013**
Ackleh, Azmy S. (*with* Deng, Keng) On a nonlocal hyperbolic model arising from a reliability system. (English summary) **2005j:35013**
— (*with* Deng, Keng; Derouen, J.; Li, Wei[15]) A numerical method for a nonlocal hyperbolic model arising from a reliability system. (English summary) **2005c:65118**
Adjabi, Smail (*with* Lagha, Karima; Aïssani, Amar) Application des lois non paramétriques dans les systèmes d'attente et la théorie de renouvellement. (English and French summaries) [Applying nonparametric distributions in queueing systems and renewal theory]
Aïssani, Amar *see* **Adjabi, Smail et al.**
Alekhina, M. A. Synthesis and complexity of reliable schemes in the basis $\{\&, \vee, \bar{}\}$ with single-type constant faults at the inputs of elements. (Russian. Russian summary) **2005b:94071**
Al-Sadi, M. H. M. *see* **Stoyanov, Jordan**, **2005k:62236**
Bean, Nigel G. *see* **Hui, K.-P. et al.**, **2005k:90012**
Bedford, Tim (*with* Lindqvist, Bo Henry) The identifiability problem for repairable systems subject to competing risks. (English summary) **2005c:60116**
Belavin, Il'ya V. *see* **Zayats, Oleg I.**, **2005j:60161**
Boland, Philip J. (*with* Samaniego, Francisco J.) The signature of a coherent system and its applications in reliability. (English summary) (*see* **2005a:62018**)
Bollapragada, Ramesh (*with* Sadeh, Norman M.) Proactive release procedures for just-in-time job shop environments, subject to machine failures. (English summary)
Booker, Andrew J. (*with* Meckesheimer, Martin; Torng, Tony) Reliability based design optimization using design explorer. (English summary)
Cai, Xiao-Qiang (*with* Sun, Xiaoqian; Zhou, Xian) Stochastic scheduling subject to machine breakdowns: the preemptive-repeat model with discounted reward and other criteria. (English summary) **2005b:90055**
Cancela, H. (*with* Petingi, L.) Reliability of communication networks with delay constraints: computational complexity and complete topologies. (English summary) **2005g:94149**
Cha, Ji Hwan (*with* Lee, Sangyeol; Mi, Jie) Comparison of steady system availability with imperfect repair. (English summary) **2005e:62138**
Chan, Ya-Lan *see* **Chern, Maw-Sheng et al.**
Chang, Chun-Tao Inventory models with stock-dependent demand and nonlinear holding costs for deteriorating items. (English summary)
Chekuri, Chandra (*with* Gupta, Anupam; Kumar, Amit[2]; Naor, Joseph; Raz, Danny) Building edge-failure resilient networks. (English summary) (*see* **2005a:90006**)
Cheng, Mingbao (*with* Sun, Shi Jie) Two scheduling problems in group technology with deteriorating jobs. (English summary) **2005m:90030**
Chern, Maw-Sheng (*with* Chan, Ya-Lan; Teng, Jinn-Tsair) Comparison among various inventory shortage models for deteriorating items on the basis of maximizing profit. (English summary)
Chew, Ek Peng *see* **Lee, Loo Hay**
Chien, Yu-Hung *see* **Sheu, Shey-Huei**, **2005b:60231**

Coolen, F. P. A. (*with* Coolen-Schrijner, P.) Non-parametric predictive reliability demonstration for failure-free periods. (English summary)
Coolen-Schrijner, P. *see* **Coolen, F. P. A.**
Cui, Lirong (*with* Xie, Min[1]) Availability of a periodically inspected system with random repair or replacement times. (English summary) **2005k:60282**
— *see also* **Jalali, Assad et al., 2005m:62188**
Deng, Keng *see* **Ackleh, Azmy S. et al., 2005c:65118** *and* **2005j:35013**
Derouen, J. *see* **Ackleh, Azmy S. et al., 2005c:65118**
De Santis, Emilio (*with* Spizzichino, Fabio) Change-point models and conditionally pure birth processes: an inequality on the stochastic intensity. (English summary) **2005k:60151**
Dshalalow, Jewgeni H. *see* **Rosson, Hong-Tham T., 2005k:60292**
Du, Jian Hua *see* **Jin, Yan Sheng et al.**
Durán, Alfonso *see* **Zequeira, Rómulo I. et al.**
Enginarlar, Emre *see* **Li, Jingshan et al., 2005d:90041**
Gravereaux, Jean-Bernard (*with* Ledoux, James) Poisson approximation for some point processes in reliability. (English summary) **2005f:60112**
Guo, Ai-Xia (*with* Wang, Ji-Bo) Single machine scheduling with deteriorating jobs under the group technology assumption. (English summary)
Gupta, Anupam *see* **Chekuri, Chandra et al., (2005a:90006)**
Gupta, Ramesh C. (*with* Kirmani, Syed N. U. A.) Some characterization of distributions by functions of failure rate and mean residual life. (English summary) **2005m:62029**
— (*with* L'vin, S. Ya.) Monotonicity of failure rate and mean residual life function of a gamma-type model. (English summary)
Gutiérrez, Gil *see* **Zequeira, Rómulo I. et al.**
Haji, Abdukerim (*with* Sulayman, Niyaz) Asymptotic stability of the solution to a system consisting of two repairable units. (Chinese. English and Chinese summaries) **2005h:34152**
Hawkes, Alan G. *see* **Jalali, Assad et al., 2005m:62188**
He, Ju *see* **He, Yong[4] et al.**
He, Yong[4] (*with* Yang, De Li; He, Ju; Zhang, Xing Zhou) Optimizing inventory model for deteriorating items based on integrated approach. (Chinese. English and Chinese summaries)
Hoier, Nicole N. *see* **Kim, Song-Kyoo**
Hou, Chao Zhen *see* **Wang, Fang**
Hou, Kuo-Lung *see* **Lin, Li-Chiao**
Huang, Yung-Fu Retailer's economic ordering policy with finite replenishment rate when delay in payments is permissible. (English summary)
Hui, K.-P. (*with* Bean, Nigel G.; Kraetzl, Miro; Kroese, Dirk P.) The cross-entropy method for network reliability estimation. (English summary) **2005k:90012**
Hungar, Hardi (*with* Niese, Oliver; Steffen, Bernhard) Domain-specific optimization in automata learning. (English summary) (*see* **2005b:68012**)
Hwang, Frank K. *see* **Jalali, Assad et al., 2005m:62188**
Jain, Madhu (*with* Sharma, G. C.; Moses, Sharon) The $M/M/C$ interdependent machining system with mixed spares and controllable rates of failure and repair. (English summary) **2005c:90020**
Jalali, Assad (*with* Hawkes, Alan G.; Cui, Lirong; Hwang, Frank K.) The optimal consecutive-k-out-of-n: G line for $n \leq 2k$. (English summary) **2005m:62188**
Jang, Wooseung (*with* Shanthikumar, J. George) Sequential process control under capacity constraints. (English summary) **2005b:90037**
Jin, Yan Sheng (*with* Xia, Mao Hui; Du, Jian Hua) The preventive repair policy of a cold standby system with two dissimilar units. (Chinese. English and Chinese summaries)
Kahl, Nathan Reliability, T-optimal graphs, and the multigraph conjecture. (English summary) **2005a:05198**
Kim, Dae Kyung[2] *see* **Lim, Jae-Hak et al.**
Kim, Song-Kyoo (*with* Hoier, Nicole N.) Human resource allocation applications of stochastic maintenance models with super-reserve backups. (English summary)
Kirmani, Syed N. U. A. *see* **Gupta, Ramesh C., 2005m:62029**
Kleinberg, Jon Detecting a network failure. (English summary) **2005e:94312**
Kogan, Konstantin (*with* Shu, Chang[2]; Perkins, James R.) Optimal finite-horizon production control in a defect-prone environment. (English summary) **2005f:90121**
Kraetzl, Miro *see* **Hui, K.-P. et al., 2005k:90012**
Kroese, Dirk P. *see* **Hui, K.-P. et al., 2005k:90012**
Kumar, Amit[2] *see* **Chekuri, Chandra et al., (2005a:90006)**
Lagha, Karima *see* **Adjabi, Smail et al.**
Ledoux, James *see* **Gravereaux, Jean-Bernard, 2005f:60112**
Lee, Loo Hay (*with* Chew, Ek Peng) A dynamic joint replenishment policy with auto-correlated demand. (English summary)
Lee, Sangyeol *see* **Cha, Ji Hwan et al., 2005e:62138**
Leung, Joseph Y.-T. (*with* Pinedo, Michael L.) A note on scheduling parallel machines subject to breakdown and repair. (English summary) **2005b:90047**
Li, Duan (*with* Sun, Xiao-ling; McKinnon, K. I. M.) An exact solution method for reliability optimization in complex systems. (English summary)
Li, Jingshan (*with* Enginarlar, Emre; Meerkov, Semyon M.) Random demand satisfaction in unreliable production-inventory-customer systems. (English summary) **2005d:90041**
Li, Wei[15] *see* **Ackleh, Azmy S. et al., 2005c:65118**
Li, Yulin Closure of NBU(2) class under the formation of parallel systems. (English summary) **2005a:62218**
Likhanov, N. B. (*with* Mazumdar, Ravi R.; Théberge, François) Providing QoS in large networks: statistical multiplexing and admission control. (English summary)
Lim, Jae-Hak (*with* Kim, Dae Kyung[2]; Park, Dong Ho) Testing the equality of NBU-ness at a specified age. (English summary)
Lin, Daming (*with* Makis, Viliam) Filters and parameter estimation for a partially observable system subject to random failure with continuous-range observations. (English summary) **2005m:60199**
Lin, Kyle Y. (*with* Ross, Sheldon M.) Optimal admission control for a single-server loss queue. (English summary) **2005c:60123**
Lin, Li-Chiao (*with* Hou, Kuo-Lung) EMQ model with maintenance actions for deteriorating production system. (English summary)
Lindqvist, Bo Henry *see* **Bedford, Tim, 2005c:60116**
Ling, Yibei (*with* Mi, Jie) An optimal trade-off between content freshness and refresh cost. (English summary) **2005i:94026**
L'vin, S. Ya. *see* **Gupta, Ramesh C.**
Mahapatra, Nirmal Kumar (*with* Maiti, Manoranjan) Inventory model for breakable items with uncertain setup time. (English summary)
Mahdy, Y. B. (*with* Younes, Adel Y. H.; Soliman, M. A.; Abdellha, M. H.) A modified algorithm for computing the upper-bound reliability of computer networks. (English summary) **2005f:68013**
Maiti, Manoranjan *see* **Mahapatra, Nirmal Kumar**
Makis, Viliam *see* **Lin, Daming, 2005m:60199**
Matta, Andrea (*with* Runchina, M.; Tolio, T.) Automated flow lines with shared buffer. (English summary)
Mazumdar, Ravi R. *see* **Likhanov, N. B. et al.**
McKinnon, K. I. M. *see* **Li, Duan et al.**
Meckesheimer, Martin *see* **Booker, Andrew J. et al.**
Meerkov, Semyon M. *see* **Li, Jingshan et al., 2005d:90041**
Mi, Jie A general approach to the shape of failure rate and MRL functions. (English summary) **2005b:62209**
— *see also* **Cha, Ji Hwan et al., 2005e:62138** *and* **Ling, Yibei, 2005i:94026**
Mishra, Sant Sharan (*with* Pandey, Himanshu; Singh, Radhey S.) A fuzzified deteriorating inventory model with breakdown of machine and shortage cost. (English summary)
Moses, Sharon *see* **Jain, Madhu et al., 2005c:90020**
Mosheiov, Gur A note on scheduling deteriorating jobs. (English summary) **2005m:90047**
Nahmias, Steven (*with* Perry, David; Stadje, Wolfgang) Perishable inventory systems with variable input and demand rates. (English summary) **2005k:90007**
Naor, Joseph *see* **Chekuri, Chandra et al., (2005a:90006)**
Niese, Oliver *see* **Hungar, Hardi et al., (2005b:68012)**
Ohta, Hiroshi[1] *see* **Rahim, M. A.**
Ohtsuka, T. *see* **Yamada, Toshinori et al., 2005k:68013**
Ou, Jian Ping (*with* Zhang, Fu Ji) Reliability of undirected de Bruijn networks. (Chinese. English and Chinese summaries) **2005k:68008**
Özekici, Süleyman (*with* Soyer, Refik) Reliability modeling and analysis in random environments. (English summary) (*see* **2005a:62018**)
Pan, Zhong Liang *see* **Yang, Yi**
Pandey, Himanshu *see* **Mishra, Sant Sharan et al.**
Pandit, Parameshwar V. A note on testing exponentiality against new better than used of specified age. (English summary)
Park, Dong Ho *see* **Lim, Jae-Hak et al.**
Perkins, James R. *see* **Kogan, Konstantin et al., 2005f:90121**
Perry, David *see* **Nahmias, Steven et al., 2005k:90007**
Petingi, L. *see* **Cancela, H., 2005g:94149**
Pinedo, Michael L. *see* **Leung, Joseph Y.-T., 2005b:90047**
Rahim, M. A. (*with* Ohta, Hiroshi[1]) An integrated economic model for inventory and quality control problems. (English summary)
Raz, Danny *see* **Chekuri, Chandra et al., (2005a:90006)**
Ridder, Ad Importance sampling simulations of Markovian reliability systems using cross-entropy. (English summary) **2005k:90013**
Ross, Sheldon M. *see* **Lin, Kyle Y., 2005c:60123**
Rosson, Hong-Tham T. (*with* Dshalalow, Jewgeni H.) A closed stochastic reliability system with variable resources. (English summary) **2005k:60292**
Roy, Dilip Bivariate models from univariate life distributions: a characterization cum modeling approach. (English summary) **2005j:62202**
Runchina, M. *see* **Matta, Andrea et al.**
Sadeh, Norman M. *see* **Bollapragada, Ramesh**
Samaniego, Francisco J. *see* **Boland, Philip J., (2005a:62018)**
Savsar, M. Modeling of an unreliable production merging process with intermediate storage tank. (English summary) (*see* **2005m:00007**)
Shanthikumar, J. George *see* **Jang, Wooseung, 2005b:90037**
Sharma, G. C. *see* **Jain, Madhu et al., 2005c:90020**
Sheu, Shey-Huei (*with* Chien, Yu-Hung) Optimal age-replacement policy of a system subject to shocks with random lead-time. (English summary) **2005b:60231**
Shevasuthisilp, Suntichai (*with* Vardeman, Stephen B.) Development programs for one-shot systems using multiple-state design reliability models. (English summary) **2005e:90051**
Shu, Chang[2] *see* **Kogan, Konstantin et al., 2005f:90121**
Singh, Radhey S. *see* **Mishra, Sant Sharan et al.**
Soliman, M. A. *see* **Mahdy, Y. B. et al., 2005f:68013**
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Stadje, Wolfgang *see* **Nahmias, Steven et al., 2005k:90007**
Steffen, Bernhard *see* **Hungar, Hardi et al., (2005b:68012)**
Stoyanov, Jordan (*with* Al-Sadi, M. H. M.) Properties of classes of life distribution based on the conditional variance. (English summary) **2005k:62236**
Sulayman, Niyaz *see* **Haji, Abdukerim, 2005h:34152**
Sun, Shi Jie *see* **Cheng, Mingbao, 2005m:90030**
Sun, Xiao-ling *see* **Li, Duan et al.**
Sun, Xiaoqian *see* **Cai, Xiao-Qiang et al., 2005b:90055**
Suresh, Rajagopalan Padmanabha On the inter-relationships between some classes of life distributions. (English summary) **2005g:62177**
Suyono (*with* van der Weide, J. A. M.) A method for computing total downtime distributions in repairable systems. (English summary) **2005g:60138**
Swift, Andrew W. Methods for assessing network reliability. (English summary) (*see* **2005a:62018**)
Tadj, Lotfi On an $M^1, M^2/G^r/1$ queueing system. (English summary) **2005c:60126**
Teng, Jinn-Tsair *see* **Chern, Maw-Sheng et al.**
Théberge, François *see* **Likhanov, N. B. et al.**
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Vardeman, Stephen B. *see* **Shevasuthisilp, Suntichai, 2005e:90051**
Vaughan, Timothy S. Failure replacement and preventive maintenance spare parts ordering policy. (English summary)
Volf, Petr An application of nonparametric Cox regression model in reliability analysis: a case study. (English summary)
Walther, Andrea Bounding the number of processors and checkpoints needed in time-minimal parallel reversal schedules. (English summary) **2005g:68188**
Wang, Fang (*with* Hou, Chao Zhen) Evaluation of the reliability of a stochastic flow network using Monte Carlo method and the Petri net. (Chinese. English and Chinese summaries)
Wang, Ji-Bo *see* **Guo, Ai-Xia**
Wang, Jinting An $M/G/1$ queue with second optional service and server breakdowns. (English summary) **2005e:60221**
Watanabe, A. *see* **Yamada, Toshinori et al., 2005k:68013**
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Wolle, Thomas A framework for network reliability problems on graphs of bounded treewidth. (English summary) (*see* **2005b:68004**)
Wondmagegnehu, Eshetu T. On the behavior and shape of mixture failure rates from a family of IFR Weibull distributions. (English summary) **2005b:62212**
Xia, Mao Hui *see* **Jin, Yan Sheng et al.**
Xie, Min[1] *see* **Cui, Lirong, 2005k:60282**
Yamada, Toshinori (*with* Ohtsuka, T.; Watanabe, A.; Ueno, Shuichi) On sequential diagnosis of multiprocessor systems. (English summary) **2005k:68013**
Yang, De Li *see* **He, Yong[4] et al.**
Yang, Yi (*with* Pan, Zhong Liang) A BDD-based method for computing network reliability. (Chinese. English and Chinese summaries)
Younes, Adel Y. H. *see* **Mahdy, Y. B. et al., 2005f:68013**
Yue, De Quan (*with* Tu, Fengsheng) On the completion time and the interruption time of a job processed on an unreliable machine. (English summary) **2005k:90049**
Zayats, Oleg I. (*with* Belavin, Il′ya V.) Application of Pugachev-Sveshnikov equation in reliability theory. (English summary) **2005j:60161**
Zequeira, Rómulo I. (*with* Durán, Alfonso; Gutiérrez, Gil) A mixed inventory model with variable lead time and random back-order rate. (English summary)
Zhang, Fu Ji *see* **Ou, Jian Ping, 2005k:68008**
Zhang, Xing Zhou *see* **He, Yong[4] et al.**
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Almeyda-Canepa, Hugo *see* **López-Mellado, Ernesto et al.**
Anli, Osman M. (*with* Caramanis, Michael C.; Paschalidis, Ioannis Ch.) Supply chain production planning modeling facility lead time and quality of service. (English summary)
Aryanezhad, Mir. B. *see* **Sadjadi, Seyed J. et al.**
Axsäter, Sven Planning order releases for an assembly system with random operation times. (English summary)
Bao, Wen Xing *see* **Cui, Wan Zhao et al.**
Beaujon, George *see* **Eskigun, Erdem et al.**
Benjaafar, Saif (*with* Kim, Joon-Seok; Vishwanadham, N.) On the effect of product variety in production-inventory systems. (English summary) **2005b:90035**
Bertrand, J. W. M. *see* **Van Nyen, P. L. M. et al.**
Bouffard, François (*with* Galiana, Francisco D.) Generalized uplifts in pool-based electricity markets. (English summary)
Bradley, James R. Optimal control of a dual service rate $M/M/1$ production-inventory model. (English summary) **2005f:90039**
Briant, Olivier (*with* Naddef, Denis) The optimal diversity management problem. (English summary) **2005b:90036**
Caramanis, Michael C. *see* **Anli, Osman M. et al.**
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Chaubey, Yogendra P. (*with* Nebebe, Fassil; Goyal, Suresh) An analysis of mean and variance of effective lead time for continuous review stock control with multiple suppliers and positive lead times. (English summary)
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Chen, Miao-Sheng (*with* Lan, Chun-Hsiung) Achieving optimal design of the production line with obtainable resource capacity. (English summary)
Chen, Qing[4] (*with* Li, Shao Yuan[2]; Xi, Yu Geng) Optimization of production process under if-then rules and its application to a reheating furnace. (Chinese. English and Chinese summaries)
Chen, Xin[5] (*with* Simchi-Levi, David) Coordinating inventory control and pricing strategies with random demand and fixed ordering cost: the infinite horizon case. (English summary) **2005g:90039**
Chu, Ta-Chung (*with* Huang, Kuo-Shi; Chang, Tzu-Ming) COA defuzzification method for evaluating C_{pk} under fuzzy environments. (English summary)
Cochran, Jeffrey K. (*with* Chen, Hung-Nan) Fuzzy multi-criteria selection of object-oriented simulation software for production system analysis. (English summary)
Cui, Wan Zhao (*with* Zhu, Chang Chun; Bao, Wen Xing; Liu, Jun Hua) Least squares wavelet support vector machines and their application to nonlinear system identification. (Chinese. English and Chinese summaries)
Dawande, Milind *see* **Geismar, H. Neil et al., 2005f:90040**
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Duncan, Stephen (*with* Wellstead, Peter) Processing data from scanning gauges on industrial web processes. (English summary)
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— *see also* **Li, Jingshan et al., 2005d:90041**
Eskigun, Erdem (*with* Uzsoy, Reha; Preckel, Paul V.; Beaujon, George; Krishnan, Subramanian; Tew, Jeffrey D.) Outbound supply chain network design with mode selection, lead times and capacitated vehicle distribution centers. (English summary)
Filar, Jerzy A. (*with* Haurie, Alain) A two-factor stochastic production model with two time scales. (English summary)
Filliger, Roger (*with* Hongler, M.-O.) Cooperative flow dynamics in production lines with buffer level dependent production rates. (English summary)
Fu, Yong[1] (*with* Li, Zuyi; Shahidehpour, S. M.) Profit-based generation resource planning. (English summary)
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Geismar, H. Neil (*with* Dawande, Milind; Sriskandarajah, Chelliah) Robotic cells with parallel machines: throughput maximization in constant travel-time cells. (English summary) **2005f:90040**
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Giri, Bibhas Chandra (*with* Yun, W. Y.; Dohi, T.) Optimal lot sizing in an unreliable two-stage serial production-inventory system. (English summary)
— (*with* Jalan, A. K.; Chaudhuri, K. S.) An economic production lot size model with increasing demand, shortages and partial backlogging. (English summary)
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Huh, Woonghee Tim (*with* Roundy, Robin O.) A continuous-time strategic capacity planning model. (English summary)
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Li, Haibing *see* **Leung, Joseph Y.-T. et al.**
Li, Jingshan (*with* Enginarlar, Emre; Meerkov, Semyon M.) Random demand satisfaction in unreliable production-inventory-customer systems. (English summary) **2005d:90041**
— (*with* Meerkov, Semyon M.) Evaluation of throughput in serial production lines with non-exponential machines. (English summary)
— (*with* Meerkov, Semyon M.) On the coefficients of variation of uptime and downtime in manufacturing equipment.
— *see also* **Enginarlar, Emre et al.**
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Sadjadi, Seyed J. (*with* Oroujee, Maryam; Aryanezhad, Mir. B.) Optimal production and marketing planning. (English summary)
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Savsar, M. Modeling of an unreliable production merging process with intermediate storage tank. (English summary) (*see* **2005m:00007**)
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Shanthikumar, J. George *see* **Jang, Wooseung, 2005b:90037**
Sheng, Zhaohan *see* **Xiao, Tiao Jun[2] et al.**
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Smith, J. MacGregor Dilemmas in factory design: paradox and paradigm. (English summary)
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Van Nyen, P. L. M. (*with* Bertrand, J. W. M.; Van Ooijen, H. P. G.; Vandaele, N. J.) A heuristic to control integrated multi-product multi-machine production-inventory systems with job shop routings and stochastic arrival, set-up and processing times. (English summary)
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Walter, Zhiping *see* **Rummel, Jeffrey L. et al., 2005e:90031**
Watanapa, Bunthit (*with* Techanitisawad, Anulark) Simultaneous price and due date settings for multiple customer classes. (English summary)
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Xiao, Tiao Jun[2] (*with* Yu, Gang[2]; Sheng, Zhaohan; Xia, Yusen) Coordination of a supply chain with one-manufacturer and two-retailers under demand promotion and disruption management decisions. (English summary)
Yang, Jian[4] (*with* Qi, Xiangtong; Yu, Gang[2]) Disruption management in production planning. (English summary)
— (*with* Golany, Boaz; Yu, Gang[2]) A concave-cost production planning problem with remanufacturing options. (English summary)
— (*with* Qi, Xiangtong; Xia, Yusen) A production-inventory system with Markovian capacity and outsourcing option. (English summary) **2005k:90027**
Yi, Jinxin *see* **Kekre, Sunder et al., 2005g:90040**
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Yun, W. Y. *see* **Giri, Bibhas Chandra et al.**
Zheng, Yun[2] (*with* Pan, Yan Chun) The confirmation of stock in the dynamic and stochastic production function model. (Chinese. English and Chinese summaries)
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Adan, Ivo J. B. F. *see* **van Vuuren, Marcel et al.**
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Caccetta, Louis (*with* Foulds, L. R.; Rumchev, Ventseslav G.) A positive linear discrete-time model of capacity planning and its controllability properties. (English summary) **2005h:93010**
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Cha, Byung-Chul *see* **Moon, Ilkyeong, 2005i:90005**
Chande, A. (*with* Dhekane, S.; Hemachandra, N.; Rangaraj, N.) Perishable inventory management and dynamic pricing using RFID technology. (English summary)
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Gu, Hui Kun A new two-machine flowshop scheduling problem with setup time and group technology. (Chinese. English and Chinese summaries)
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Moon, Ilkyeong (*with* Cha, Byung-Chul) A continuous review inventory model with the controllable production rate of the manufacturer. (English summary) **2005i:90005**

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Amaro, Carlos C. (*with* Baruah, Sanjoy K.; Stoyen, Alexander D.; Halang, Wolfgang A.) Non-preemptive scheduling to maximize the minimum global inter-completion time. (English summary)
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Anderson, Edward J. (*with* Potts, Chris N.) Online scheduling of a single machine to minimize total weighted completion time. (English summary) **2005d:90043**
Andrés, Carlos (*with* Albarracín, José Miguel; Tormo, Guillermina; Vicens, Eduardo; García-Sabater, José Pedro) Group technology in a hybrid flowshop environment: A case study. (English summary)
Angel, Eric (*with* Bampis, Evripidis; Gourvès, Laurent) Approximation results for a bicriteria job scheduling problem on a single machine without preemption. (English summary) **2005i:90017**
Angelelli, E. (*with* Nagy, Á. B.; Speranza, Maria Grazia; Tuza, Zsolt) The on-line multiprocessor scheduling problem with known sum of the tasks. (English summary) **2005g:90041**
Anglani, Alfredo (*with* Grieco, Antonio; Guerriero, Emanuela; Musmanno, Roberto) Robust scheduling of parallel machines with sequence-dependent set-up costs. (English summary) **2005e:90032**
Arbib, Claudio (*with* Smriglio, Stefano; Servilio, Mara) A competitive scheduling problem and its relevance to UMTS channel assignment. (English summary) **2005f:90041**
Arora, Sanjeev (*with* Brinkman, Bo) A randomized online algorithm for bandwidth utilization. (English summary)
Artigues, Christian (*with* Billaut, Jean-Charles; Esswein, Carl) Maximization of solution flexibility for robust shop scheduling. (English summary)
— *see also* **Palpant, Mireille et al.** *and* **Demassey, Sophie et al.**
Askin, Ronald G. *see* **Kurz, Mary E., 2005a:90069**
Aslanidis, Timos *see* **Afrati, Foto et al., 2005j:90018**
Assis, Wânderson O. (*with* Milani, Basílio E. A.) Generation of optimal schedules for metro lines using model predictive control. (English summary)
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Avella, Pasquale (*with* Boccia, Maurizio; D'Auria, Bernardo) Near-optimal solutions of large-scale single-machine scheduling problems. (English summary) **2005k:90028**
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— (*with* Berman, Oded; Chernykh, Ilya) The m-machine flowshop problem with unit-time operations and intree precedence constraints. (English summary) **2005g:90042**
Aytug, Haldun (*with* Lawley, Mark A.; McKay, Kenneth N.; Mohan, Shantha; Uzsoy, Reha) Executing production schedules in the face of uncertainties: a review and some future directions. (English summary)
Azar, Yossi (*with* Epstein, Leah; Richter, Yossi; Woeginger, Gerhard J.) All-norm approximation algorithms. (English summary) (*see* **2005a:68002**)
— (*with* Epstein, Leah; Richter, Yossi; Woeginger, Gerhard J.) All-norm approximation algorithms. (English summary) **2005f:90042**
Azizi, Nader (*with* Zolfaghari, Saeed) Adaptive temperature control for simulated annealing: a comparative study. (English summary)
Babu, Pascal (*with* Péridy, Laurent; Pinson, Eric) A branch and bound algorithm to minimize total weighted tardiness on a single processor. (English summary) **2005c:90024**
Baklavas, G. (*with* Roumeliotis, Manos) Stable scheduling schemes for packet switches. (English summary) **2005k:90029**
Balci, Huseyin Hakan (*with* Valenzuela, Jorge F.) Scheduling electric power generators using particle swarm optimization combined with the Lagrangian relaxation method. (English summary)
Ballestín, Francisco *see* **Valls Verdejo, Vicente et al.**
Bampis, Evripidis (*with* Giroudeau, R.; Kononov, Aleksandr Veniaminovich) Scheduling tasks with small communication delays for clusters of processors. (English summary) **2005c:90025**
— (*with* Kononov, Aleksandr Veniaminovich) Bicriteria approximation algorithms for scheduling problems with communications delays. (English summary) **2005m:90028**
— *see also* **Angel, Eric et al., 2005i:90017** *and* **Afrati, Foto et al., 2005j:90018**
Bansal, Nikhil (*with* Pruhs, Kirk R.) Server scheduling in the L_p norm: a rising tide lifts all boat. (English summary) (*see* **2005j:68009**)
— (*with* Dhamdhere, Kedar; Könemann, Jochen; Sinha, Amitabh) Non-clairvoyant scheduling for minimizing mean slowdown. (English summary) **2005c:90026**
— Minimizing flow time on a constant number of machines with preemption. (English summary) **2005g:90043**
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— (*with* Brucker, Peter; Knust, Sigrid; Timkovskiĭ, V. G.) Ten notes on equal-processing-time scheduling: at the frontiers of solvability in polynomial time. (English summary) **2005d:90044**
— (*with* Carlier, Jacques; Jouglet, Antoine) A Branch-and-Bound procedure to minimize total tardiness on one machine with arbitrary release dates. (English summary) **2005a:90052**
— (*with* Le Pape, Claude) Scheduling a single machine to minimize a regular objective function under setup constraints. (English summary) **2005j:90020**
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Bard, Jonathan F. *see* **Rojanasoonthon, Siwate, 2005k:90044**
Barnes, J. Wesley *see* **Zoghby, Jeriad et al.**
Bartal, Yair (*with* Chin, Francis Y. L.; Chrobak, Marek; Fung, Stanley P. Y.; Jawor, Wojciech; Lavi, Ron; Sgall, Jiří; Tichý, Tomáš) Online competitive algorithms for maximizing weighted throughput of unit jobs. (English summary) **2005e:90034**
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— (*with* Leonardi, Stefano; Marchetti-Spaccamela, Alberto; Vitaletti, A.; Diggavi, Suhas N.; Muthukrishnan, S. Muthu; Nandagopal, T.) Parallel scheduling problems in next generation wireless networks. (English summary) **2005g:90044**
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Bertel, S. (*with* Billaut, Jean-Charles) A genetic algorithm for an industrial multiprocessor flow shop scheduling problem with recirculation. (English summary)
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Billaut, Jean-Charles *see* **Bouquard, Jean-Louis et al., 2005h:90033**; **Bertel, S.** *and* **Artigues, Christian et al.**
Biskup, Dirk (*with* Simons, Dirk) Common due date scheduling with autonomous and

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— (*with* Feldmann, Martin) On scheduling around large restrictive common due windows. (English summary) **2005g:90045**
Błażewicz, Jacek (*with* Machowiak, Maciej; Węglarz, Jan; Kovalëv, M. Ya.; Trystram, Denis) Scheduling malleable tasks on parallel processors to minimize the makespan. (English summary) **2005a:90053**
— (*with* Pesch, Erwin; Sterna, Małgorzata; Werner, Frank) Open shop scheduling problems with late work criteria. (English summary) **2005f:90043**
— (*with* Pesch, Erwin; Sterna, Małgorzata; Werner, Frank) The two-machine flow-shop problem with weighted late work criterion and common due date. (English summary) **2005j:90021**
— *see also* **Sadfi, Cherif et al., 2005e:90042**
Boccia, Maurizio *see* **Avella, Pasquale et al., 2005k:90028**
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Bornstein, Claudio Thomás (*with* Alcoforado, Luciane Ferreira; Maculan, Nelson) A graph-oriented approach for the minimization of the number of late jobs for the parallel machines scheduling problem. (English summary)
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— *see also* **Lenté, Christophe, 2005b:90046**
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— ★ Scheduling algorithms. **2005a:90056**
— (*with* Knust, Sigrid; Cheng, T. C. Edwin; Shakhlevich, N. V.) Complexity results for flow-shop and open-shop scheduling problems with transportation delays. (English summary) **2005a:90057**
— (*with* Kampmeyer, Thomas) Tabu search algorithms for cyclic machine scheduling problems. (English summary) **2005m:90029**
— *see also* **Baptiste, Philippe et al., 2005d:90044**
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Cai, Mao-Cheng (*with* Deng, Xiao Tie; Feng, Haodi; Li, Guo Jun[1]; Liu, Gui Zhen) A PTAS for minimizing total completion time of bounded batch scheduling. (English summary) (*see* **2005a:90006**)
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— *see also* **Baptiste, Philippe et al., 2005a:90052**
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Cavory, G. (*with* Dupas, R.; Goncalves, Gilles) A genetic approach to solving the problem of cyclic job shop scheduling with linear constraints. (English summary)
Čepek, Ondřej (*with* Sung, Shao Chin) Just-in-time scheduling with periodic time slots. (English summary)
— *see also* **Čáp, Petr et al., 2005k:90031**
Chanas, Stefan (*with* Kasperski, Adam) Sensitivity analysis in the single-machine scheduling problem with max-min criterion. (English summary) **2005k:90033**
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Chang, Tzu-Yun *see* **Chou, Fuh-Der et al.**
Chang, Yung-Chia (*with* Lee, Chung-Yee) Machine scheduling with job delivery coordination. (English summary) **2005a:90058**
Chauhan, Satyaveer S. (*with* Eremeev, Anton V.; Romanova, Anna A.; Servakh, Vladimir V.; Woeginger, Gerhard J.) Approximation of the supply scheduling problem. (English summary) **2005h:90034**
Che, Ada (*with* Chu, Chengbin) A polynomial algorithm for no-wait cyclic hoist scheduling in an extended electroplating line. (English summary) **2005g:90046**
Chekuri, Chandra (*with* Khanna, Sanjeev; Zhu, An) Algorithms for minimizing weighted flow time. (English summary) (*see* **2005j:68008**)
Chen, Bo[1] (*with* Deng, Xiao Tie; Zang, Wenan) On-line scheduling a batch processing system to minimize total weighted job completion time. (English summary) **2005b:90041**
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Chen, Jen-Shiang *see* **Pan, Jason Chao-Hsien, 2005h:90049**
Chen, Ke Bing (*with* Gao, Cheng Xiu) An algorithm for solving taxi scheduling in a limited network. (Chinese. English and Chinese summaries)
Chen, Xiu Hong Improvement of the performance ratio bound for the GKK algorithm in parallel processor problems. (Chinese. English and Chinese summaries)
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— (*with* Ng, C. T. Daniel; Yuan, Jin Jiang; Liu, Zhaohui) Single machine scheduling to minimize total weighted tardiness. (English summary) **2005k:90034**
— (*with* Shakhlevich, N. V.) Minimizing non-decreasing separable objective functions for the unit-time open shop scheduling problem. (English summary) **2005i:90019**
— (*with* Kang, Li Ying; Ng, C. T. Daniel) Single machine due-date scheduling of jobs with decreasing start-time dependent processing times. (English summary) **2005k:90035**
— *see also* **Brucker, Peter et al., 2005a:90057**; **Yuan, Jin Jiang et al., 2005a:90076**; **2005a:90077**; **Liu, Zhaohui, 2005b:90048**; **Wang, Xiuli, 2005g:90064**; **2005m:90045**; **Ng, C. T. Daniel et al., 2005h:90048**; **Tian, Z. J. et al., 2005j:90030**; **He, Yong[1] et al., 2005k:90037** *and* **Lin, Bertrand M. T.**
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— *see also* **Bartal, Yair et al., 2005e:90034** *and* **Fung, Stanley P. Y. et al.**
Chou, Fuh-Der (*with* Chang, Tzu-Yun; Lee, Ching-En) A heuristic algorithm to minimize total weighted tardiness on a single machine with release times. (English summary)
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Cicortaş, Alexandru A particular genetic algorithm in multi-agent systems in manufacturing. (English summary) **2005b:90042**
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Damodaran, P. (*with* Srihari, K.) Mixed integer formulation to minimize makespan in a flow shop with batch processing machines. (English summary) **2005h:90035**
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D'Auria, Bernardo *see* **Avella, Pasquale et al., 2005k:90028**
Dauzère-Pérès, Stéphane (*with* Sevaux, Marc) An exact method to minimize the number of tardy jobs in single machine scheduling. (English summary)
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— *see also* **Geismar, H. Neil et al., 2005f:90047**
Della Croce, F. *see* **T'kindt, Vincent et al., 2005g:90062**
Dell'Amico, Mauro (*with* Martello, Silvano) A note on: "An exact algorithm for the identical parallel machine scheduling problem" [European J. Oper. Res. **152** (2004), no. 3, 758–769; MR2009598 (2004g:90046)] by E. Mokotoff. (English summary) **2005d:90045**
Demassey, Sophie (*with* Artigues, Christian; Michelon, Philippe) Constraint-propagation-based cutting planes: an application to the resource-constrained project scheduling problem. (English summary)
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— *see also* **Chen, Bo[1] et al., 2005b:90041** *and* **Cai, Mao-Cheng et al., (2005a:90006)**
De Prisco, Roberto *see* **Auletta, Vincenzo et al., 2005e:90033**
Detti, Paolo (*with* Agnetis, Alessandro; Ciaschetti, Gianfranco) Polynomial algorithms for a two-class multiprocessor scheduling problem in mobile telecommunications systems. (English summary) **2005m:90032**
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— On the structure of sequences in shop scheduling problems. (English summary) **2005i:90020**
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Diggavi, Suhas N. *see* **Becchetti, Luca et al., 2005g:90044**
Ding, Wei[1] A scheduling problem on a general-purpose machine and three groups of tasks with identical processors. (Chinese. English and Chinese summaries)
Dong, Jiefang *see* **Xie, Jinxing et al., 2005c:90034**
Dósa, György (*with* Vizvári, Béla) Algorithm LPT(k)′ for scheduling identical parallel

machines. (Hungarian. English and Hungarian summaries)
— (*with* He, Yong[1]) Semi-online algorithms for parallel machine scheduling problems. (English summary) **2005c:90028**
— (*with* He, Yong[1]) Better online algorithms for scheduling with machine cost. (English summary) **2005g:90049**
Duan, Hua *see* **Lian, Wen Juan et al.**
Dunstall, Simon (*with* Wirth, Andrew) A comparison of branch-and-bound algorithms for a family scheduling problem with identical parallel machines. (English summary)
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Ebben, M. J. R. (*with* van der Heijden, Matthieu; van Harten, Aart) Dynamic transport scheduling under multiple resource constraints. (English summary)
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Eidenbenz, Stephan (*with* Pagourtzis, Aris; Widmayer, Peter) Flexible train rostering. (English summary) **2005d:90046**
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— (*with* Baptiste, Pierre; Moalla, Mohamed) The simple $F2//C$ max with forbidden tasks in first or last position: a problem more complex than it seems. (English summary) **2005e:90036**
Engels, Daniel W. (*with* Karger, David R.; Kolliopoulos, Stavros G.; Sengupta, Sudipta[2]; Uma, R. N.; Wein, Joel) Techniques for scheduling with rejection. (English summary) **2005h:90036**
Epping, Th. (*with* Hochstättler, Winfried; Oertel, Peter) Complexity results on a paint shop problem. (English summary) **2005a:90062**
Epstein, Leah (*with* van Stee, Rob) Minimizing the maximum starting time on-line. (English summary) (*see* **2005c:68002**)
— (*with* Favrholdt, Lene M.) Optimal non-preemptive semi-online scheduling on two related machines. (English summary) (*see* **2005b:68019**)
— (*with* Ganot, Arik) Optimal on-line algorithms to minimize makespan on two machines with resource augmentation. (English summary) **2005d:90047**
— (*with* Tassa, Tamir) Optimal preemptive scheduling for general target functions. (English summary) **2005m:90033**
— *see also* **Azar, Yossi et al., 2005f:90042**; (**2005a:68002**) *and* **Tan, Zhiyi et al., 2005k:90046**
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Eremeev, Anton V. *see* **Chauhan, Satyaveer S. et al., 2005h:90034**
Erlebach, Thomas (*with* Kääb, Vanessa; Möhring, Rolf H.) Scheduling AND/OR-networks on identical parallel machines. (English summary) **2005d:90048**
— (*with* Hall, Alexander) NP-hardness of broadcast scheduling and inapproximability of single-source unsplittable min-cost flow. (English summary) **2005b:90044**
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Fan, Jing (*with* Yang, Qi Fan) Linear time algorithm for scheduling on three parallel machines with non-simultaneous machine available times. (Chinese. English and Chinese summaries)
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Formanowicz, Piotr *see* **Sadfi, Cherif et al., 2005e:90042**
Fowler, John W. (*with* Kim, Bosun; Carlyle, W. Matthew; Gel, Esma Senturk; Horng, Shwu-Min) Evaluating solution sets of a posteriori solution techniques for bi-criteria combinatorial optimization problems. (English summary) **2005j:90025**
— *see also* **Perez, Imelda C. et al., 2005d:90055**
Frangioni, Antonio (*with* Necciari, Emiliano; Scutellà, Maria Grazia) A multi-exchange neighborhood for minimum makespan parallel machine scheduling problems. (English summary) **2005b:90045**
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Fung, Stanley P. Y. (*with* Chin, Francis Y. L.; Shen, Hong[2]) Online scheduling of unit jobs with bounded importance ratio. (English summary)
— *see also* **Chin, Francis Y. L., 2005a:90060** *and* **Bartal, Yair et al., 2005e:90034**
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Gao, Cheng Xiu *see* **Chen, Ke Bing**
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Geraghty, John (*with* Heavey, Cathal) A review and comparison of hybrid and pull-type production control strategies. (English summary)
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— (*with* Pempera, Jarosław) Some local search algorithms for no-wait flow-shop problem with makespan criterion. (English summary)
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Gu, Hui Kun A new two-machine flowshop scheduling problem with setup time and group technology. (Chinese. English and Chinese summaries)
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— *see also* **Ecker, Klaus H., 2005g:90050**
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— (*with* Laporte, Gilbert; Selvarajah, Esaignani; Sriskandarajah, Chelliah) Scheduling and lot streaming in two-machine open shops with no-wait in process. (English summary) **2005i:90021**
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— (*with* Jiang, Yi-Wei) Preemptive semi-online scheduling with tightly-grouped processing times. (English summary)
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— *see also* **Dósa, György, 2005c:90028**; **2005g:90049**; **Tan, Zhiyi et al., 2005c:90033** *and* **2005k:90046**
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— (*with* Huang, Zhi[2]) Algorithm based on taboo search and shifting bottleneck for job shop scheduling. (English summary)
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— (*with* Lee, Kangbok; Chang, Soo Y.) The effect of machine availability on the worst-case performance of LPT. (English summary) **2005k:90039**
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Knuutila, Timo (*with* Hirvikorpi, Mika; Johnsson, Mika; Nevalainen, Olli S.) Grouping of PCB assembly jobs in the case of flexible feeder units. (English summary) **2005g:90055**
Koçlar, Ayşe (*with* Süral, Haldun) A note on: "The general lot sizing and scheduling problem" [OR Spectrum **19** (1997), no. 1, 11–21; MR1464392 (98c:90047)] by B. Fleischmann and H. Meyr. (English summary) **2005g:90056**
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— *see also* **Gupta, Jatinder N. D. et al., 2005a:90063**
Kovalëv, M. Ya. *see* **Błażewicz, Jacek et al., 2005a:90053; Ng, C. T. Daniel et al., 2005h:90048** *and* **Janiak, Adam et al., 2005m:90036**
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— *see also* **Giaro, Krzysztof, 2005g:90052**
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Lai, Tsung-Chyan (*with* Sot·skov, Yu. N.; Sotskova, Nadezhda; Werner, Frank) Mean flow time minimization with given bounds of processing times. (English summary) **2005g:90058**
Lam, Kokin *see* **Leung, Janny M. Y. et al.**
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— (*with* Ngan, Tsuen-Wan Johnny; To, Kar-Keung) A tighter extra-resource analysis of online deadline scheduling. (English summary) **2005m:90039**
— *see also* **Koo, Chiu-Yuen et al., 2005h:90043**
Laporte, Gilbert *see* **Hall, Nicholas G. et al., 2005i:90021**
La Poutré, Johannes A. *see* **van Stee, Rob, (2005c:68002)**
Lauff, Volker (*with* Werner, Frank) On the complexity and some properties of multi-stage scheduling problems with earliness and tardiness penalties. (English summary) **2005f:90050**
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Lee, Loo Hay (*with* Chew, Ek Peng; Ng, T. S.) Production planning with approved vendor matrices for a hard-disk drive manufacturer. (English summary)
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Leung, Janny M. Y. (*with* Zhang, Guoqing; Yang, Xiao Guang; Mak, Raymond; Lam, Kokin) Optimal cyclic multi-hoist scheduling: a mixed integer programming approach. (English summary)
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— *see also* **Huo, Yumei, 2005k:90038**
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— Optimization of schedules in pipeline systems with variable job execution order. (Russian. Russian summary) **2005k:90040**
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Li, Ning *see* **Liu, Quan Li et al.**
Li, Rong Heng (*with* Huang, Huei Chuen) On-line scheduling for jobs with arbitrary release times. (English summary) **2005e:90038**
Li, Shuguang[3] (*with* Li, Guo Jun[1]; Zhang, Shao-qiang) Minimizing makespan with release times on identical parallel batching machines. (English summary) **2005k:90041**
— (*with* Li, Guo Jun[1]; Wang, Xiao Li[2]; Liu, Qiming) Minimizing makespan on a single batching machine with release times and non-identical job sizes. (English summary) **2005f:90052**
Li, Wenhua[4] *see* **Lin, Yixun, 2005a:90071**
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Lian, Wen Juan (*with* Fan, Hao; Duan, Hua) Analysis of parallel transfers of graph theory based web files. (Chinese. English and Chinese summaries)
Liaw, Ching-Fang Scheduling preemptive open shops to minimize total tardiness. (English summary) **2005f:90053**
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Liu, Gui Zhen *see* **Cai, Mao-Cheng et al.**, (2005a:90006)
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Liu, Qiming *see* **Li, Shuguang[3] et al.**, 2005f:90052
Liu, Quan Li (*with* Wang, Wei[5]; Zhu, Rui Jun[2]; Li, Ning; Jin, Ji Ling) Optimal scheduling method and its application for a bell-type batch annealing. (Chinese. English and Chinese summaries)
Liu, Shiqiang (*with* Ong, Hoon Liong) Metaheuristics for the mixed shop scheduling problem. (English summary)
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— *see also* **Yuan, Jin Jiang et al.**, 2005a:90077; **Cheng, T. C. Edwin et al.**, 2005c:90027 *and* 2005k:90034
Liu, Zhixin *see* **Xie, Jinxing et al.**, 2005c:90034
Lodree, Emmett, Jr. (*with* Jang, Wooseung; Klein, Cerry M.) A new rule for minimizing the number of tardy jobs in dynamic flow shops. (English summary) **2005a:90072**
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Loukil, T. (*with* Teghem, Jacques, Jr.; Tuyttens, D.) Solving multi-objective production scheduling problems using metaheuristics. (English summary)
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— (*with* Sun, Shi Jie) Semi on-line scheduling problem for maximizing the minimum machine completion time on m identical machines. (English summary)
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Mastrolilli, Monaldo Scheduling to minimize max flow time: offline and online algorithms. (English summary) (*see* **2005b:68015**)
— Scheduling to minimize max flow time: off-line and on-line algorithms. (English summary) **2005h:90045**
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Merkle, Daniel (*with* Middendorf, Martin) On solving permutation scheduling problems with ant colony optimization. (English summary)
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— *see also* **Józefowska, Joanna et al.**, 2005a:90066
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— (*with* Oron, Daniel) Due-window assignment with unit processing-time jobs. (English summary) **2005c:90032**
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— (*with* Oron, Daniel; Ritov, Ya'acov) Minimizing flow-time on a single machine with integer batch sizes. (English summary) **2005m:90041**
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— *see also* **Yuan, Jin Jiang et al.**, 2005a:90077; **Cheng, T. C. Edwin et al.**, 2005c:90027; 2005k:90034; 2005k:90035 *and* **Tian, Z. J. et al.**, 2005j:90030
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— (*with* Ercan, M. Fikret) A genetic algorithm for hybrid flow-shop scheduling with multiprocessor tasks. (English summary)
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Shi, Ling Open-shop scheduling problem with release times and job priorities. (Chinese. English and Chinese summaries)
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Soukhal, A. (*with* Martineau, Patrick[2]) Resolution of a scheduling problem in a flowshop robotic cell. (English summary)
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van Stee, Rob (*with* La Poutré, Johannes A.) Minimizing the total completion time on-line on a single machine, using restarts. (English summary) (*see* **2005c:68002**)
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Su, Chang[2] *see* **Paschalidis, Ioannis Ch. et al., 2005d:90054**
Subramani, K. An analysis of totally clairvoyant scheduling. (English summary) **2005k:90045**
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Tan, Zhiyi (*with* He, Yong[1]) Ordinal scheduling problem and its asymptotically optimal algorithms on parallel machine system. (English summary) **2005c:90033**
— (*with* He, Yong[1]; Epstein, Leah) Optimal on-line algorithms for the uniform machine scheduling problem with ordinal data. (English summary) **2005k:90046**
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Tang, Guochun *see* **Zhang, Feng[1] et al., 2005k:90050**
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Vairaktarakis, George *see* **Li, Chung-Lun et al., 2005h:90044**
Vakhaniya, Nodari N. Single-machine scheduling with release times and tails. (English summary) **2005a:90074**
— *see also* **Shchepin, E. V., 2005g:90061**
Valente, Jorge M. S. (*with* Alves, Rui A. F. S.) An exact approach to early/tardy scheduling with release dates. (English summary) **2005m:90043**
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Valls Verdejo, Vicente (*with* Ballestín, Francisco; Quintanilla, Sacramento) A population-based approach to the resource-constrained project scheduling problem. (English summary)
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Van Wassenhove, L. N. *see* **Crauwels, H. A. J. et al., 2005k:90036**
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Wallace, Richard J. (*with* Freuder, Eugene C.) Supporting dispatchability in schedules with consumable resources. (English summary) **2005j:90031**
Wang, Bing (*with* Xi, Yu Geng; Gu, Hanyu) Terminal penalty rolling scheduling based on an initial schedule for single-machine scheduling problem. (English summary) **2005m:90044**
Wang, Guoqing[1] (*with* Sun, Hongyi; Chu, Chengbin) Preemptive scheduling with availability constraints to minimize total weighted completion times. (English summary)

Wang, Hui[8] (*with* Zuo, Wan Li; Lü, Wei) Earliest deadline first scheduling with rectifing faults. (Chinese. English and Chinese summaries)
Wang, Ji-Bo (*with* Wang, Ming Zheng; Xia, Zun Quan) Single-machine scheduling to minimize makespan under linear deterioration. (English summary) **2005d:90056**
— (*with* Xia, Zun Quan) Scheduling jobs under decreasing linear deterioration. (English summary) **2005j:90032**
— (*with* Xia, Zun Quan) No-wait or no-idle permutation flowshop scheduling with dominating machines. (English summary) **2005g:90063**
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— *see also* **Guo, Ai-Xia**
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Wang, Xiao Li[2] *see* **Li, Shuguang**[3] **et al.**, **2005f:90052**
Wang, Xiuli (*with* Cheng, T. C. Edwin) Two-machine flowshop scheduling with job class setups to minimize total flowtime. (English summary) **2005m:90045**
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Wright, Michael Bruce Scheduling fixtures for New Zealand Cricket. (English summary)
Wu, Chin-Chia A makespan study of the two-machine flowshop scheduling problem with a learning effect. (English summary)
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— (*with* Posner, Marc E.) Scheduling parallel machines for the customer order problem. (English summary) **2005k:90048**
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Yang, Xiao Guang *see* **Leung, Janny M. Y. et al.**
Yao, Ming-Jong The economic lot scheduling problem without capacity constraints. (English summary)
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Yeh, Wei-Chang (*with* Allahverdi, Ali) A branch-and-bound algorithm for the three-machine flowshop scheduling problem with bicriteria of makespan and total flowtime. (English summary) **2005a:90075**
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Yokoyama, Masao Scheduling for two-stage production system with setup and assembly operations. (English summary)
— (*with* Santos, Daryl L.) Three-stage flow-shop scheduling with assembly operations to minimize the weighted sum of product completion times. (English summary) **2005e:90046**
You, Jane *see* **Ma, Weimin et al.**, **2005a:90073**
Yu, Wenci (*with* Hoogeveen, Johannes Adzer; Lenstra, Jan Karel) Minimizing makespan in a two-machine flow shop with delays and unit-time operations is NP-hard. (English summary) **2005g:90065**
— *see also* **Poon, Chung Keung**, **2005b:90051**
Yuan, Jin Jiang (*with* Yang, Aifeng; Cheng, T. C. Edwin) A note on the single machine serial batching scheduling problem to minimize maximum lateness with identical processing times. (English summary) **2005a:90076**
— (*with* Liu, Zhaohui; Ng, C. T. Daniel; Cheng, T. C. Edwin) The unbounded single machine parallel batch scheduling problem with family jobs and release dates to minimize makespan. (English summary) **2005a:90077**
— *see also* **Cheng, T. C. Edwin et al.**, **2005c:90027** *and* **2005k:90034**
Yue, De Quan (*with* Tu, Fengsheng) On the completion time and the interruption time of a job processed on an unreliable machine. (English summary) **2005k:90049**
Yuen, Christina S. Y. *see* **Chu, Sydney C. K.**, (**2005b:90008**)
Zang, Wei (*with* Sun, Shi Jie) Minimizing total completion time of jobs on a flexible two-machine flow shop. (Chinese. English and Chinese summaries)
Zang, Wenan *see* **Chen, Bo**[1] **et al.**, **2005b:90041**
Zhang, Feng[1] Controllable scheduling for the sum of the number of late jobs and the maximal compress rate of processing times. (Chinese. English and Chinese summaries) **2005b:90054**
— (*with* Chen, Feng[3]; Tang, Guochun) Convex quadratic programming relaxations for parallel machine scheduling with controllable processing times subject to release times. (English summary) **2005k:90050**
Zhang, Guochuan *see* **Ye, Deshi**, **2005e:90045**
Zhang, Guoqiang Peter *see* **Samaddar, Subhashish et al.**
Zhang, Guoqing *see* **Leung, Janny M. Y. et al.**
Zhang, Qing Ling *see* **Zhao, Chuan-li et al.**
Zhang, Shao-qiang *see* **Li, Shuguang**[3] **et al.**, **2005k:90041**
Zhang, Yu Zhong[1] (*with* Wang, Lin) NP-completeness of a new batch scheduling problem. (Chinese. English and Chinese summaries) **2005k:90051**
Zhao, Chuan-li (*with* Zhang, Qing Ling; Tang, Heng-yong) Machine scheduling problems with a learning effect. (English summary)
— (*with* Tang, Heng-yong) Single machine scheduling problems with deteriorating jobs. (English summary)
Zhu, An *see* **Chekuri, Chandra et al.**, (**2005j:68008**)
Zhu, Rui Jun[2] *see* **Liu, Quan Li et al.**
Zoghby, Jeriad (*with* Barnes, J. Wesley; Hasenbein, John J.) Modeling the reentrant job shop scheduling problem with setups for metaheuristic searches. (English summary)
Zolfaghari, Saeed *see* **Azizi, Nader**
Zuo, Wan Li *see* **Wang, Hui**[8] **et al.**

Items with secondary classifications in 90B35

Ahuja, Nitin (*with* Srivastav, Anand) On constrained hypergraph coloring and scheduling (extended abstract). (English summary) (*see* **2005d:68005**)
Ahuja, Ravindra K. (*with* Liu, Jian; Orlin, James B.; Goodstein, Jon; Mukherjee, Amit) A neighborhood search algorithm for the combined through and fleet assignment model with time windows. (English summary)
Albers, Susanne On randomized online scheduling. (English summary) (*see* **2005i:68004**)
Aldowaisan, Tariq *see* **Allahverdi, Ali et al.**, **2005c:90035**
Allahverdi, Ali (*with* Aldowaisan, Tariq; Sot·skov, Yu. N.) Two-machine flowshop scheduling problem to minimize makespan or total completion time with random and bounded setup times. (English summary) **2005c:90035**
Àlvarez, Carme (*with* Blesa, M.; Díaz, Josep; Serna, Maria José; Fernández, Antonio[1]) Adversarial models for priority-based networks. (English summary) **2005g:90012**
Anderson, James H. (*with* Srinivasan, Anand[1]) Mixed Pfair/ERfair scheduling of asynchronous periodic tasks. (English summary) **2005a:68027**
— *see also* **Srinivasan, Anand**[1], (**2005i:68004**)
Andrews, Matthew (*with* Zhang, Lisa) Minimizing end-to-end delay in high-speed networks with a simple coordinated schedule. (English summary) **2005a:68028**
Anli, Osman M. (*with* Caramanis, Michael C.; Paschalidis, Ioannis Ch.) Supply chain production planning modeling facility lead time and quality of service. (English summary)
Arbib, Claudio (*with* Flammini, Michele; Marinelli, Fabrizio) Minimum flow time graph ordering. (English summary) **2005f:90141**
Armacost, A. P. *see* **Nielsen, C. A. et al.**
Arráiz, Emely (*with* Martínez, Amadís; Meza, Oscar; Ortega, Maruja) Metaheuristics for computing the forwarding index of a graph. (English summary) **2005m:90171**
Ata, Barış (*with* Harrison, J. Michael; Shepp, Larry A.) Drift rate control of a Brownian processing system. (English summary) **2005k:60265**
Augustine, John E. (*with* Seiden, Steven S.) Linear time approximation schemes for vehicle scheduling problems. (English summary) **2005d:68149**
Azar, Yossi (*with* Epstein, Amir; Epstein, Leah) Load balancing of temporary tasks in the l_p norm. (English summary) (*see* **2005c:68005**)
Bach, Eric (*with* Boyar, Joan; Epstein, Leah; Favrholdt, Lene M.; Jiang, Tao[1]; Larsen, Kim S.; Lin, Guo-Hui; van Stee, Rob) Tight bounds on the competitive ratio on accommodating sequences for the seat reservation problem. (English summary) **2005f:68051**
Bampis, Evripidis (*with* Caramia, Massimiliano; Fiala, Jiří; Fishkin, Aleksei V.; Iovanella, Antonio) Scheduling of independent dedicated multiprocessor tasks. (English summary) (*see* **2005b:68004**)
Bansal, Nikhil (*with* Blum, Avrim; Chawla, Shuchi; Dhamdhere, Kedar) Scheduling for flow-time with admission control. (English summary) (*see* **2005c:68003**)
— (*with* Dhamdhere, Kedar; Könemann, Jochen; Sinha, Amitabh) Non-clairvoyant scheduling for minimizing mean slowdown. (English summary) **2005c:68054**
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Barnier, Nicolas (*with* Brisset, Pascal) Graph coloring for air traffic flow management. (English summary) **2005b:90018**
Bar-Noy, Amotz (*with* Bar-Yehuda, Reuven; Freund, Ari; Naor, Joseph; Schieber, Baruch) A unified approach to approximating resource allocation and scheduling. (*see* **2005i:68003**)
— (*with* Bar-Yehuda, Reuven; Freund, Ari; Naor, Joseph; Schieber, Baruch) A unified approach to approximating resource allocation and scheduling. (English summary) **2005m:68250**
Bar-Yehuda, Reuven (*with* Even, Guy; Shahar, Shimon) On approximating a geometric prize-collecting traveling salesman problem with time windows. (English summary) (*see* **2005c:68003**)
— *see also* **Bar-Noy, Amotz et al.**, **2005m:68250** *and* (**2005i:68003**)
Becchetti, Luca (*with* Leonardi, Stefano) Non-clairvoyant scheduling to minimize the average flow time on single and parallel machines. (English summary) (*see* **2005j:68008**)
Bhaskar, Vidhyacharan (*with* Joiner, Laurie L.) Modeling scheduled dataflow architecture: an open queuing network model approach. (English summary)
Bhatia, Randeep (*with* Chuzhoy, Julia; Freund, Ari; Naor, Joseph) Algorithmic aspects of bandwidth trading. (English summary) (*see* **2005b:68008**)
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— *see also* **Bansal, Nikhil et al.**, (**2005c:68003**)
Boyar, Joan *see* **Bach, Eric et al.**, **2005f:68051**
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Burke, Edmund K. (*with* De Causmaecker, Patrick; Vanden Berghe, Greet; Van Landeghem, Hendrik) The state of the art of nurse rostering. (English summary)

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Caramanis, Michael C. *see* **Anli, Osman M. et al.**
Caramia, Massimiliano (*with* Giordani, Stefano; Iovanella, Antonio) Grid scheduling by on-line rectangle packing. (English summary)
— *see also* **Bampis, Evripidis et al.**, (**2005b:68004**)
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Chekuri, Chandra (*with* Khanna, Sanjeev) A PTAS for minimizing weighted completion time on uniformly related machines (extended abstract). (English summary) (*see* **2005a:68007**)
— (*with* Khanna, Sanjeev) Approximation schemes for preemptive weighted flow time. (English summary) (*see* **2005i:68004**)
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Chen, Jian-Er *see* **Miranda, Antonio et al.**, (**2005b:68004**)
Chen, Zhi Bin (*with* Li, Jian Ping[3]) Maximizing the throughput of ring routing problem in SONET. (Chinese. English and Chinese summaries)
— (*with* Li, Jian Ping[3]) Optimal structure of information dissemination. (Chinese. English and Chinese summaries)
Cheng, T. C. Edwin (*with* Kellerer, Hans[2]; Kotov, Vladimir) Semi-on-line multiprocessor scheduling with given total processing time. (English summary) **2005m:68266**
Chiang, Yi-Jen New approximation results for the maximum scatter TSP. (English summary) **2005j:68125**
Chin, Francis Y. L. (*with* Fung, Stanley P. Y.) Improved competitive algorithms for online scheduling with partial job values. (English summary) **2005d:68039**
Chrobak, Marek (*with* Csirik, János; Imreh, Csanád; Noga, John; Sgall, Jiří; Woeginger, Gerhard J.) The buffer minimization problem for multiprocessor scheduling with conflicts. (English summary) (*see* **2005a:68007**)
— (*with* Epstein, Leah; Noga, John; Sgall, Jiří; van Stee, Rob; Tichý, Tomáš; Vakhaniya, Nodari N.) Preemptive scheduling in overloaded systems. (English summary) (*see* **2005a:68008**)
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Clark, Stephen J. (*with* Barnhart, Cynthia; Kolitz, S. E.) Large-scale optimization planning methods for the distribution of United States Army munitions. (English summary)
Correa, José R. (*with* Schulz, Andreas S.; Stier Moses, Nicolás E.) Computational complexity, fairness, and the price of anarchy of the maximum latency problem. (English summary) (*see* **2005m:90001**)
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Decker, Thomas (*with* Lücking, Thomas; Monien, Burkhard) A $\frac{5}{4}$-approximation algorithm for scheduling identical malleable tasks. (English summary) (*see* **2005c:68005**)
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Edmonds, Jeff On the competitiveness of AIMD-TCP within a general network. (English summary) (*see* **2005d:68010**)
Ehrgott, Matthias (*with* Ryan, David M.) The method of elastic constraints for multiobjective combinatorial optimization and its application in airline crew scheduling. (English summary) (*see* **2005b:90008**)
Enginarlar, Emre (*with* Li, Jingshan; Meerkov, Semyon M.) Lean buffering in serial production lines with non-exponential machines. (English summary)
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Epstein, Leah (*with* Tassa, Tamir) Approximation schemes for the min-max starting time problem. (English summary) (*see* **2005b:68020**)
— (*with* Tassa, Tamir) Approximation schemes for the min-max starting time problem. (English summary) **2005c:68294**
— (*with* Sgall, Jiří) Approximation schemes for scheduling on uniformly related and identical parallel machines. (English summary) **2005k:68233**
— *see also* **Bach, Eric et al.**, **2005f:68051**; **Chrobak, Marek et al.**, (**2005a:68008**) *and* **Azar, Yossi et al.**, (**2005c:68005**)
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Gandhi, Rajiv (*with* Khuller, Samir; Kim, Yoo-Ah; Wan, Yung-Chun) Algorithms for minimizing response time in broadcast scheduling. (English summary) (*see* **2005a:90006**)
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Grigoriev, Alexander (*with* Woeginger, Gerhard J.) Project scheduling with irregular costs: complexity, approximability, and algorithms. (English summary) **2005b:68112**
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Harrison, J. Michael *see* **Ata, Barış et al.**, **2005k:60265**
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— (*with* Solis-Oba, Roberto; Sviridenko, M. I.) Makespan minimization in job shops: a linear time approximation scheme. (English summary) **2005b:68287**
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Jiang, Tao[1] *see* **Bach, Eric et al.**, **2005f:68051**
Jin, Hong[2] (*with* Wang, Hong An; Wang, Qiang; Fu, Yong; Wang, Hui) Fuzzy dynamic pre-emptive scheduling algorithms. (Chinese. English and Chinese summaries)
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Kalai, Adam *see* **Blum, Avrim et al.**, **2005e:94299**
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Kerbache, Laoucine (*with* Norbis, Mario; Gonzalez, Jose A.) Optimal server assignment for a multiple customer classes problem. (English summary)
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Kolliopoulos, Stavros G. (*with* Steiner, George) Partially-ordered knapsack and applications to scheduling. (English summary) (*see* **2005c:68002**)
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Li, Yanzhi (*with* Lim, Andrew L. C.; Rodrigues, Brian) Manpower allocation with time windows and job-teaming constraints. (English summary)
Lim, Andrew L. C. *see* **Li, Yanzhi et al.**
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Miranda, Antonio (*with* Torres, Luz; Chen, Jian-Er) On the approximability of multiprocessor task scheduling problems. (English summary) (*see* **2005b:68004**)
Miyazawa, Hiroyuki (*with* Erlebach, Thomas) An improved randomized on-line algorithm for a weighted interval selection problem. (English summary) **2005b:68284**

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Neagu, Nicoleta ★ Constraint satisfaction techniques for agent-based reasoning. **2005k:68182**
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Pallottino, Stefano (*with* Tadei, Roberto) Foreword [Network optimization in transportation and communication].
Panyukov, A. V. Topological methods for solving Steiner's problem on a graph. (Russian. Russian summary) **2005k:90126**
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Pinedo, Michael L. ★ Planning and scheduling in manufacturing and services. **2005g:90004**
Pruhs, Kirk R. Editorial: Special issue on online scheduling.
— *see also* **Kohrt, Jens S.**, 2005g:68198
Remy, Jan Resource constrained scheduling on multiple machines. (English summary) **2005b:68289**
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Shepp, Larry A. *see* **Ata, Barış et al.**, 2005k:60265
Shiina, Takayuki (*with* Watanabe, Isamu) Lagrangian relaxation method for price-based unit commitment problem. (English summary)
Sinha, Amitabh *see* **Bansal, Nikhil et al.**, 2005c:68054
Solis-Oba, Roberto *see* **Jansen, Klaus et al.**, 2005b:68287; 2005c:68005 *and* **Approximation and online algorithms**, 2005c:68005
Song, Yuyue (*with* Chan, Gin Hor) Single item lot-sizing problems with backlogging on a single machine at a finite production rate. (English summary) **2005e:90005**
Sot·skov, Yu. N. *see* **Allahverdi, Ali et al.**, 2005c:90035
Soukhal, A. (*with* Oulamara, A.; Martineau, Patrick[2]) Complexity of flow shop scheduling problems with transportation constraints. (English summary) **2005e:90008**
(de Sousa, Jorge Pinho) *see* **Metaheuristics: computer decision-making**, 2005b:90007
Srinivasan, Anand[1] (*with* Anderson, James H.) Optimal rate-based scheduling on multiprocessors. (English summary) (*see* **2005i:68004**)
— *see also* **Anderson, James H.**, 2005a:68027
Sriskandarajah, Chelliah *see* **Geismar, H. Neil et al.**, 2005f:90040
Srivastav, Anand *see* **Ahuja, Nitin**, (2005d:68005)
van Stee, Rob *see* **Bach, Eric et al.**, 2005f:68051 *and* **Chrobak, Marek et al.**, (2005a:68008)
Steger, Angelika *see* **Scharbrodt, Mark et al.**, (2005i:68004)
Steiner, George *see* **Kolliopoulos, Stavros G.**, 2005e:68263 *and* (2005c:68002)
Stier Moses, Nicolás E. *see* **Correa, José R. et al.**, (2005m:90001)
Subramani, K. Periodic linear programming with applications to real-time scheduling. (English summary)
Sviridenko, M. I. A note on permutation flow shop problem. (English summary) **2005a:90020**
— *see also* **Jansen, Klaus et al.**, 2005b:68287
Tadei, Roberto *see* **Pallottino, Stefano**
Tamir, Tami *see* **Harvey, Nicholas J. A. et al.**, 2005c:68224 *and* **Shachnai, Hadas et al.**, 2005m:68260
Tassa, Tamir *see* **Epstein, Leah**, 2005c:68294 *and* (2005b:68020)
Tichý, Tomáš *see* **Chrobak, Marek et al.**, (2005a:68008)
Torres, Luz *see* **Miranda, Antonio et al.**, (2005b:68004)
Trautmann, Norbert *see* **Mellentien, Christoph et al.**
Tresser, Charles Dynamique de la diffusion de l'erreur sur plusieurs polytopes. (English and French summaries) [Dynamics of error diffusion on several polytopes] **2005b:37028**
— *see also* **Nowicki, Tomasz**, 2005j:37153
Trystram, Denis *see* **Gupta, Apurv et al.**, 2005b:68042
Uetz, Marc When greediness fails: examples from stochastic scheduling. (English summary) **2005f:90057**
Unger, Walter *see* **Crescenzi, Pierluigi et al.**, (2005b:68008)
Vakhaniya, Nodari N. *see* **Chrobak, Marek et al.**, (2005a:68008)
Valls Verdejo, Vicente (*with* Węglarz, Jan) Project management and scheduling.
Vanden Berghe, Greet *see* **Burke, Edmund K. et al.**
Van Landeghem, Hendrik *see* **Burke, Edmund K. et al.**
(Viana, Ana) *see* **Metaheuristics: computer decision-making**, 2005b:90007
Wan, Yung-Chun *see* **Gandhi, Rajiv et al.**, (2005a:90006)
Wang, Hong An *see* **Jin, Hong[2] et al.**
Wang, Hui *see* **Jin, Hong[2] et al.**
Wang, Qiang *see* **Jin, Hong[2] et al.**
Watanabe, Isamu *see* **Shiina, Takayuki**
Węglarz, Jan *see* **Valls Verdejo, Vicente**
Woeginger, Gerhard J. On the approximability of average completion time scheduling under precedence constraints. (English summary) (*see* **2005a:68007**)
— *see also* **Grigoriev, Alexander**, 2005b:68112; **Shachnai, Hadas et al.**, 2005m:68260 *and* **Chrobak, Marek et al.**, (2005a:68007)
Xu, Yinlong *see* **Zhou, Fengfeng et al.**, 2005g:68012
Ye, Deshi (*with* Zhang, Guochuan) On-line scheduling of parallel jobs. (English summary)
Yeh, Hong-Gwa (*with* Zhu, Xuding) Resource-sharing system scheduling and circular chromatic number. (English summary) **2005j:68083**
Zhang, Binwu *see* **Hwang, Frank K.**, 2005g:90014
Zhang, Guochuan *see* **Ye, Deshi**
Zhang, Lisa *see* **Andrews, Matthew**, 2005a:68028
Zhou, Fengfeng (*with* Xu, Yinlong; Chen, Guo Liang[2]) No-wait scheduling in single-hop multi-channel LANs. (English summary) **2005g:68012**
Zhu, Xuding *see* **Yeh, Hong-Gwa**, 2005j:68083
Zosin, Leonid *see* **Saks, Michael et al.**, 2005c:90012

Items listed otherwise than by author

Approximation and online algorithms ★ Approximation and online algorithms. **2005c:68005**
Budapest ★ Approximation and online algorithms. **2005c:68005**
Handbook:
Scheduling ★ Handbook of scheduling. **2005d:90001**
Lecture Notes in Computer Science ★ Approximation and online algorithms. **2005c:68005**
Metaheuristics: computer decision-making ★ Metaheuristics: computer decision-making. **2005b:90007**
Porto ★ Metaheuristics: computer decision-making. **2005b:90007**

90B36 Scheduling theory, stochastic [see also 68M20]

Aldowaisan, Tariq *see* **Allahverdi, Ali et al.**, 2005c:90035
Allahverdi, Ali (*with* Aldowaisan, Tariq; Sot·skov, Yu. N.) Two-machine flowshop scheduling problem to minimize makespan or total completion time with random and bounded setup times. (English summary) **2005c:90035**
Ayhan, Hayriye *see* **Chang, Junxia et al.**, 2005h:90053
Bish, Douglas R. *see* **Bish, Ebru K. et al.**, 2005a:90078
Bish, Ebru K. (*with* Suwandechochai, Rawee; Bish, Douglas R.) Strategies for managing the flexible capacity in the airline industry. (English summary) **2005a:90078**
Black, Gary W. (*with* McKay, Kenneth N.; Messimer, Sherri L.) Predictive, stochastic and dynamic extensions to aversion dynamics scheduling. (English summary)
Bradley, James R. A Brownian approximation of a production-inventory system with a manufacturer that subcontracts. (English summary) **2005d:90057**
Cai, Xiao-Qiang (*with* Sun, Xiaoqian; Zhou, Xian) Stochastic scheduling subject to machine breakdowns: the preemptive-repeat model with discounted reward and other criteria. (English summary) **2005b:90055**
— (*with* Zhou, Xian) Deterministic and stochastic scheduling with teamwork tasks. (English summary) **2005f:90054**
— (*with* Zhou, Xian) Single-machine scheduling with exponential processing times and general stochastic cost functions. (English summary) **2005m:90046**
— *see also* **Ng, C. T. Daniel et al.**, 2005k:90052
Chang, Junxia (*with* Ayhan, Hayriye; Dai, J. G.; Xia, Cathy H.) Dynamic scheduling of a multiclass fluid model with transient overload. (English summary) **2005h:90053**
Cheevaprawatdomrong, Torpong (*with* Smith, Robert L.) Infinite horizon production scheduling in time-varying systems under stochastic demand. (English summary) **2005a:90079**
Cheng, T. C. Edwin *see* **Ng, C. T. Daniel et al.**, 2005k:90052
Co, Henry C. *see* **Sharafali, Moosa et al.**, 2005a:90082
Dai, J. G. *see* **Chang, Junxia et al.**, 2005h:90053
Ding, Wei[1] Scheduling problem on general purpose machinery and two groups of tasks with uniform processors. (Chinese. English and Chinese summaries)
Dunn, R. T. (*with* Glazebrook, Kevin D.) Discounted multiarmed bandit problems on a collection of machines with varying speeds. (English summary) **2005a:90080**
Duron, Cyril (*with* Proth, Jean-Marie; Wardi, Yoraï) Insertion of a random task in a schedule: a real-time approach. (English summary) **2005h:90054**
Dusonchet, F. (*with* Hongler, M.-O.) Optimal hysteresis for a class of deterministic deteriorating two-armed bandit problem with switching costs. (English summary)

Ebben, M. J. R. (*with* Hans, E. W.; Weghuis, F. M. Olde) Workload based order acceptance in job shop environments. (English summary)
Engell, Sebastian (*with* Märkert, Andreas; Sand, Guido; Schultz, Rüdiger) Aggregated scheduling of a multiproduct batch plant by two-stage stochastic integer programming. (English summary) **2005c:90036**
Famularo, Domenico (*with* Pugliese, Paolo; Sergeev, Yaroslav D.) Global optimization technique for fixed-order control design. (English summary)
Glazebrook, Kevin D. Optimal scheduling of tasks when service is subject to disruption: the preempt-repeat case. (English summary) **2005j:90034**
— *see also* **Dunn, R. T., 2005a:90080**
Goh, Mark *see* **Sharafali, Moosa et al., 2005a:90082**
Gourgand, Michel (*with* Grangeon, Nathalie; Norre, Sylvie) Markovian analysis for performance evaluation and scheduling in m machine stochastic flow-shop with buffers of any capacity. (English summary)
Grangeon, Nathalie *see* **Gourgand, Michel et al.**
Hans, E. W. *see* **Ebben, M. J. R. et al.**
Harrison, J. Michael (*with* Zeevi, Assaf) Dynamic scheduling of a multiclass queue in the Halfin-Whitt heavy traffic regime. (English summary) **2005a:90081**
Hongler, M.-O. *see* **Dusonchet, F.**
Lam, Sze Sing *see* **Ng, C. T. Daniel et al., 2005k:90052**
Märkert, Andreas *see* **Engell, Sebastian et al., 2005c:90036**
McKay, Kenneth N. *see* **Black, Gary W. et al.**
Messimer, Sherri L. *see* **Black, Gary W. et al.**
Montagner, Vinícius F. (*with* Peres, Pedro L. D.) Robust stability and $\mathscr{H}_\infty$ performance of linear time-varying systems in polytopic domains. (English summary) **2005f:90055**
Mosheiov, Gur A note on scheduling deteriorating jobs. (English summary) **2005m:90047**
Ng, C. T. Daniel (*with* Cai, Xiao-Qiang; Cheng, T. C. Edwin; Lam, Sze Sing) Minimizing completion time variance with compressible processing times. (English summary) **2005k:90052**
Norre, Sylvie *see* **Gourgand, Michel et al.**
Peres, Pedro L. D. *see* **Montagner, Vinícius F., 2005f:90055**
Proth, Jean-Marie *see* **Duron, Cyril et al., 2005h:90054**
Pugliese, Paolo *see* **Famularo, Domenico et al.**
Sand, Guido *see* **Engell, Sebastian et al., 2005c:90036**
Sarkar, Saswati Optimum scheduling and memory management in input queued switches with finite buffer space. (English summary) **2005f:90056**
Schultz, Rüdiger *see* **Engell, Sebastian et al., 2005c:90036**
Sergeev, Yaroslav D. *see* **Famularo, Domenico et al.**
Sharafali, Moosa (*with* Co, Henry C.; Goh, Mark) Production scheduling in a flexible manufacturing system under random demand. (English summary) **2005a:90082**
Smith, Robert L. *see* **Cheevaprawatdomrong, Torpong, 2005a:90079**
Sot·skov, Yu. N. *see* **Allahverdi, Ali et al., 2005c:90035**
Souza, Alexander (*with* Steger, Angelika) The expected competitive ratio for weighted completion time scheduling. (English summary) **2005k:90053**
Steger, Angelika *see* **Souza, Alexander, 2005k:90053**
Sun, Xiaoqian *see* **Cai, Xiao-Qiang et al., 2005b:90055**
Suwandechochai, Rawee *see* **Bish, Ebru K. et al., 2005a:90078**
Uetz, Marc When greediness fails: examples from stochastic scheduling. (English summary) **2005f:90057**
Wardi, Yoraï *see* **Duron, Cyril et al., 2005h:90054**
Weghuis, F. M. Olde *see* **Ebben, M. J. R. et al.**
Xia, Cathy H. *see* **Chang, Junxia et al., 2005h:90053**
Zeevi, Assaf *see* **Harrison, J. Michael, 2005a:90081**
Zhou, Xian *see* **Cai, Xiao-Qiang et al., 2005b:90055**; **2005f:90054** *and* **2005m:90046**

Items with secondary classifications in 90B36

Atar, Rami (*with* Mandelbaum, Avishai; Reiman, Martin I.) Scheduling a multi class queue with many exponential servers: asymptotic optimality in heavy traffic. (English summary) **2005d:90028**
— A diffusion model of scheduling control in queueing systems with many servers. (English summary) **2005j:60162**
Aytug, Haldun (*with* Lawley, Mark A.; McKay, Kenneth N.; Mohan, Shantha; Uzsoy, Reha) Executing production schedules in the face of uncertainties: a review and some future directions. (English summary)
Bedford, Anthony[2] (*with* Zeephongsekul, Panlop) Simulation studies of a multi-priority dual queue (MPDQ) with preemptive and non-preemptive scheduling. (English summary) (*see* **2005g:00014**)
Bhaskar, Vidhyacharan (*with* Joiner, Laurie L.) Modeling scheduled dataflow architecture: an open queuing network model approach. (English summary)
Błażewicz, Jacek (*with* Ecker, Klaus H.; Trystram, Denis) Editorial [Recent advances in scheduling in computer and manufacturing systems].
Buzacott, J. A. *see* **Iravani, Seyed M. R. et al., 2005g:90027**
Chang, Hyeong Soo (*with* Givan, Robert; Chong, Edwin K. P.) Parallel rollout for online solution of partially observable Markov decision processes. (English summary) **2005c:90108**
Chong, Edwin K. P. *see* **Chang, Hyeong Soo et al., 2005c:90108**
Derbala, Ali Priority queuing in an operating system. (English summary)
Ecker, Klaus H. *see* **Błażewicz, Jacek et al.**
Givan, Robert *see* **Chang, Hyeong Soo et al., 2005c:90108**
Helber, Stefan Analysis of flow lines with Cox-2-distributed processing times and limited buffer capacity. (English summary)
Iravani, Seyed M. R. (*with* Buzacott, J. A.; Posner, M. J. M.) A robust policy for serial agile production systems. (English summary) **2005g:90027**
Joiner, Laurie L. *see* **Bhaskar, Vidhyacharan**
Karaesmen, Fikri *see* **Yıldırım, Işıl et al.**
Lawley, Mark A. *see* **Aytug, Haldun et al.**
(Leung, Joseph Y.-T.) *see* **Handbook: Scheduling, 2005d:90001**
Mandelbaum, Avishai *see* **Atar, Rami et al., 2005d:90028**
McKay, Kenneth N. *see* **Aytug, Haldun et al.**
Mohan, Shantha *see* **Aytug, Haldun et al.**
Nozick, Linda K. (*with* Turnquist, Mark A.; Xu, Ningxiong) Managing portfolios of projects under uncertainty. (English summary)
Posner, M. J. M. *see* **Iravani, Seyed M. R. et al., 2005g:90027**
Raj, Sibi (*with* Telatar, İ. Emre; Tse, David N. C.) Job scheduling and multiple access. (English summary) **2005e:94061**
Reiman, Martin I. *see* **Atar, Rami et al., 2005d:90028**
Stolyar, A. L. Maxweight scheduling in a generalized switch: state space collapse and workload minimization in heavy traffic. (English summary) **2005a:60151**
Tan, Barış *see* **Yıldırım, Işıl et al.**
Telatar, İ. Emre *see* **Raj, Sibi et al., 2005e:94061**
Trystram, Denis *see* **Błażewicz, Jacek et al.**
Tse, David N. C. *see* **Raj, Sibi et al., 2005e:94061**
Turnquist, Mark A. *see* **Nozick, Linda K. et al.**
Uzsoy, Reha *see* **Aytug, Haldun et al.**
Wang, Guandong *see* **Zhang, Weixiong et al.**
Wittenburg, Lars *see* **Zhang, Weixiong et al.**
Xing, Zhao *see* **Zhang, Weixiong et al.**
Xu, Ningxiong *see* **Nozick, Linda K. et al.**
Yıldırım, Işıl (*with* Tan, Barış; Karaesmen, Fikri) A multiperiod stochastic production planning and sourcing problem with service level constraints. (English summary)
Zeephongsekul, Panlop *see* **Bedford, Anthony[2], (2005g:00014)**
Zhang, Weixiong (*with* Wang, Guandong; Xing, Zhao; Wittenburg, Lars) Distributed stochastic search and distributed breakout: properties, comparison and applications to constraint optimization problems in sensor networks. (English summary)

Items listed otherwise than by author

Handbook:
Scheduling ★ Handbook of scheduling. **2005d:90001**

90B40 Search theory

Abd El-Moneim, M. A. The generalized search for one dimensional random Walker. (English summary)
Bar-Noy, Amotz (*with* Malewicz, Grzegorz) Establishing wireless conference calls under delay constraints. (English summary) **2005a:90083**
Belyaeva, M. B. (*with* Mitrofanov, M. Yu.) New results in the theory of search. (Russian. Russian summary) **2005h:90055**
Fernández-Sáez, M. J. *see* **Zoroa Alonso, Noemíet al., 2005g:90066**
García-Fernández, I. *see* **Hendrix, Eligius M. T. et al., 2005d:90058**
Gu, Ming (*with* He, Fei; Song, Xiaoyu; Sun, Jia Guang) Multiterminal net assignments by scatter search. (English summary) **2005m:90048**
He, Fei *see* **Gu, Ming et al., 2005m:90048**
Hendrix, Eligius M. T. (*with* Ortigosa, Pilar M.; García-Fernández, I.) On the efficiency and effectiveness of controlled random search. (English summary) **2005d:90058**
Huang, Chien-Chieh (*with* Laing, Derek; Wang, Ping[12]) Crime and poverty: a search-theoretic approach. (English summary) **2005b:90056**
Kapilevich, V. O. (*with* Petrov, Nikolaĭ Nikolaevich) Search problems in graphs with counteraction. (English summary) **2005f:90058**
Khanna, Ravi Counter insurgency operations a mathematical modelling approach. (English summary) **2005a:90084**
Kristinsdottir, Birna P. (*with* Zabinsky, Zelda B.; Wood, Graham R.) Discrete backtracking adaptive search for global optimization. (English summary) **2005h:90056**
Laing, Derek *see* **Huang, Chien-Chieh et al., 2005b:90056**
Malewicz, Grzegorz *see* **Bar-Noy, Amotz, 2005a:90083**
Mitrofanov, M. Yu. *see* **Belyaeva, M. B., 2005h:90055**
Ortigosa, Pilar M. *see* **Hendrix, Eligius M. T. et al., 2005d:90058**
Petrov, Nikolaĭ Nikolaevich *see* **Kapilevich, V. O., 2005f:90058**
Shakkottai, Sanjay Asymptotics of search strategies over a sensor network. (English summary) **2005k:90054**
Song, Nah-Oak (*with* Teneketzis, Demosthenis) Discrete search with multiple sensors. (English summary) **2005k:90055**
Song, Xiaoyu *see* **Gu, Ming et al., 2005m:90048**
Sun, Jia Guang *see* **Gu, Ming et al., 2005m:90048**
Teneketzis, Demosthenis *see* **Song, Nah-Oak, 2005k:90055**
Wang, Ping[12] *see* **Huang, Chien-Chieh et al., 2005b:90056**
Wegener, Ingo Towards a theory of randomized search heuristics. (English summary) (*see* **2005b:68020**)
Wood, Graham R. *see* **Kristinsdottir, Birna P. et al., 2005h:90056**
Zabinsky, Zelda B. *see* **Kristinsdottir, Birna P. et al., 2005h:90056**
Zhang, Weixiong Configuration landscape analysis and backbone guided local search. I. Satisfiability and maximum satisfiability. (English summary)
Zoroa Alonso, Noemí (*with* Fernández-Sáez, M. J.; Zoroa Terol, Procopio) Search and ambush games with capacities. (English summary) **2005g:90066**
Zoroa Terol, Procopio *see* **Zoroa Alonso, Noemíet al., 2005g:90066**

Items with secondary classifications in 90B40

Barrière, Lali (*with* Fraigniaud, Pierre; Santoro, Nicola; Thilikos, Dimitris M.) Searching is not jumping. (English summary) (*see* **2005b:05002**)
Chen, Bo[1] *see* **Zhang, Jiawei et al., (2005m:90001)**
Chumanova, A. V. *see* **Petrov, Nikolaĭ Nikolaevich, 2005g:91050**
Cui, Ningzhou *see* **Hong, Lang et al.**
Fiorelli, Edward *see* **Ögren, Petter et al., 2005b:93086**
Fomin, Fedor V. (*with* Heggernes, Pinar; Telle, Jan Arne) Graph searching, elimination trees, and a generalization of bandwidth. (English summary) **2005b:68213**
Fraigniaud, Pierre *see* **Barrière, Lali et al., (2005b:05002)**
Geiger, Dan *see* **Zohar, Ron, 2005b:62122**
Grebogi, Celso *see* **de Moura, Alessandro P. S. et al., 2005e:68009**
Greco, Sergio (*with* Saccà, Domenico) Search and optimization problems in DATALOG. (English summary) **2005g:68015**
Heggernes, Pinar *see* **Fomin, Fedor V. et al., 2005b:68213**

Hohzaki, Ryusuke (*with* Washburn, Alan R.) An approximation for a continuous datum search game with energy constraint. (English summary) **2005d:91023**
Hong, Lang (*with* Cui, Ningzhou; Pronobis, Mark T.; Scott, Stephen) Local motion feature aided ground moving target tracking with GMTI and HRR measurements. (English summary)
Howse, James W. (*with* Ticknor, Lawrence O.; Muske, Kenneth R.) Least squares estimation techniques for position tracking of radioactive sources. (English summary)
(Kadane, Joseph B.) *see* **Zohar, Ron, 2005b:62122**
Kadlec, Helena *see* **van Rooij, Iris et al., 2005k:91090**
Kanungo, Tapas (*with* Mount, David M.; Netanyahu, Nathan S.; Piatko, Christine D.; Silverman, Ruth; Wu, Angela Y.) A local search approximation algorithm for k-means clustering. (English summary) **2005a:68210**
Katona, Gyula O. H. Strong qualitative independence. (English summary) **2005b:05018**
Kikuta, Kensaku A search game on a cyclic graph. (English summary) **2005f:91007**
Leonard, Naomi Ehrich *see* **Ögren, Petter et al., 2005b:93086**
Littlefair, Guy *see* **Penev, Kalin**
Liu, Wen An (*with* Nie, Zan Kan) Searching for three objects. (Chinese. English and Chinese summaries) **2005c:68213**
Motter, Adilson E. *see* **de Moura, Alessandro P. S. et al., 2005e:68009**
Mount, David M. *see* **Kanungo, Tapas et al., 2005a:68210**
de Moura, Alessandro P. S. (*with* Motter, Adilson E.; Grebogi, Celso) Searching in small-world networks. (English summary) **2005e:68009**
Muske, Kenneth R. *see* **Howse, James W. et al.**
Netanyahu, Nathan S. *see* **Kanungo, Tapas et al., 2005a:68210**
Nie, Zan Kan *see* **Liu, Wen An, 2005c:68213**
Ögren, Petter (*with* Fiorelli, Edward; Leonard, Naomi Ehrich) Cooperative control of mobile sensor networks: adaptive gradient climbing in a distributed environment. (English summary) **2005b:93086**
Penev, Kalin (*with* Littlefair, Guy) Free search—a comparative analysis. (English summary)
Petrov, Nikolaĭ Nikolaevich (*with* Chumanova, A. V.) On certain search problems with counteraction. (English summary) **2005g:91050**
Piatko, Christine D. *see* **Kanungo, Tapas et al., 2005a:68210**
Pronobis, Mark T. *see* **Hong, Lang et al.**
van Rooij, Iris (*with* Stege, Ulrike; Kadlec, Helena) Sources of complexity in subset choice. (English summary) **2005k:91090**
Saccà, Domenico *see* **Greco, Sergio, 2005g:68015**
Santoro, Nicola *see* **Barrière, Lali et al., (2005b:05002)**
Scott, Stephen *see* **Hong, Lang et al.**
Silverman, Ruth *see* **Kanungo, Tapas et al., 2005a:68210**
Stege, Ulrike *see* **van Rooij, Iris et al., 2005k:91090**
Sun, Huey-Min A new variable structure multiple-model algorithm for manoeuvring target tracking. (English summary)
Telle, Jan Arne *see* **Fomin, Fedor V. et al., 2005b:68213**
Thilikos, Dimitris M. *see* **Barrière, Lali et al., (2005b:05002)**
Ticknor, Lawrence O. *see* **Howse, James W. et al.**
Washburn, Alan R. *see* **Hohzaki, Ryusuke, 2005d:91023**
Wu, Angela Y. *see* **Kanungo, Tapas et al., 2005a:68210**
Ye, Yinyu *see* **Zhang, Jiawei et al., (2005m:90001)**
Zhang, Jiawei (*with* Chen, Bo[1]; Ye, Yinyu) A multi-exchange local search algorithm for the capacitated facility location problem. (English summary) (*see* **2005m:90001**)
Zohar, Ron (*with* Geiger, Dan) A novel framework for tracking groups of objects. (English summary) **2005b:62122**

90B50 Management decision making, including multiple objectives [see also 90C31, 91A35, 91B06]

Abo-Sinna, Mahmoud A. *see* **Osman, M. S. et al., 2005b:90059**
Agrawal, Vipul (*with* Chao, Xiuli; Seshadri, Sridhar) Dynamic balancing of inventory in supply chains. (English summary) **2005c:90037**
Ahituv, Niv (*with* Greenstein, Gil) The impact of accessibility on the value of information and the productivity paradox. (English summary) **2005e:90047**
Amer, Azza H. *see* **Osman, M. S. et al., 2005b:90059**
Aouni, Belaïd (*with* Ben Abdelaziz, Foued; Martel, Jean-Marc) Decision-maker's preferences modeling in the stochastic goal programming. (English summary)
Arakawa, M. *see* **Yun, Ye Boon et al., 2005i:90029**
Asef-Vaziri, Ardavan (*with* Laporte, Gilbert) Loop based facility planning and material handling. (English summary)
Askira Gelman, Irit Addressing time-scale differences among decision-makers through model abstractions. (English summary)
Avella, Pasquale (*with* Boccia, Maurizio; Di Martino, Carmine; Oliviero, Giuseppe; Sforza, Antonio; Vasil′ev, Igor) A decomposition approach for a very large scale optimal diversity management problem. (English summary) **2005m:90049**
Balasubramanian, Parasuram (*with* Tewary, Ashish Kumar) Design of supply chains: unrealistic expectations on collaboration. (English summary)
Ball, Michael O. *see* **Zhao, Zhenying et al.**
Basso, Antonella (*with* Funari, Stefania) Measuring the performance of museums: classical and FDH DEA models. (English summary)
Ben Abdelaziz, Foued (*with* Krichen, S.) An interactive method for the optimal selection problem with two decision makers. (English summary)
— *see also* **Aouni, Belaïd et al.**
Bhuiyan, Nadia *see* **Shuiabi, Eyas et al.**
Bisdorff, Raymond Concordant outranking with multiple criteria of ordinal significance. (English summary) **2005i:90027**
Boccia, Maurizio *see* **Avella, Pasquale et al., 2005m:90049**
Bordley, Robert F. (*with* Kirkwood, Craig W.) Multiattribute preference analysis with performance targets. (English summary)
Brams, Steven J. (*with* Edelman, Paul H.; Fishburn, Peter C.) Fair division of indivisible items. (English summary) **2005b:90057**
Brodskiĭ, M. I. Application of fuzzy dynamic programming to multicriterial decision-making methods. (Russian. English summary) **2005e:90048**
Bubnicki, Zdzisław Application of uncertain variables to a project management under uncertainty. (English summary)
Buriol, L. S. (*with* Resende, Maurício G. C.; Ribeiro, Celso C.; Thorup, Mikkel) A hybrid genetic algorithm for the weight setting problem in OSPF/IS-IS routing. (English summary)
Cancer, Vesna An environmental management method for enterprises in the processing industry. (English summary)
Canfora, G. (*with* Troiano, L.) A model for opinion agreement and confidence in multi-expert multi-criteria decision making. (English summary) **2005k:90056**
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Chakravarty, Amiya K. Global plant capacity and product allocation with pricing decisions. (English summary)
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Chhajed, Dilip *see* **Yalabik, Barış et al., 2005g:90068**
Ching, Wai Ki (*with* Ng, Michael K.; Wong, Ka-Kuen) Hidden Markov models and their applications to customer relationship management. (English summary) **2005a:90085**
Chu, Peter *see* **Liang, Shing-Ko et al.**
Cohen, Izack (*with* Golany, Boaz; Shtub, Avraham) Managing stochastic, finite capacity, multi-project systems through the cross-entropy methodology. (English summary) **2005k:90057**
Cui, Xun-Xue (*with* Lin, Chuang) A preference-based multi-objective concordance genetic algorithm. (English and Chinese summaries)
Danielson, Mats Generalized evaluation in decision analysis. (English summary)
Deshmukh, S. G. *see* **Jain, Vipul et al.**
Di Martino, Carmine *see* **Avella, Pasquale et al., 2005m:90049**
Dong, June (*with* Zhang, Ding; Yan, Hong[2]; Nagurney, Anna) Multitiered supply chain networks: multicriteria decision-making under uncertainty. (English summary)
Edelman, Paul H. *see* **Brams, Steven J. et al., 2005b:90057**
Ehrgott, Matthias (*with* Klamroth, Kathrin; Schwehm, Christian) An MCDM approach to portfolio optimization. (English summary) **2005a:90086**
Emam, O. E. *see* **Osman, M. S. et al., 2005b:90059**
Feng, En Min *see* **Hu, Jian-Guo et al.**
Feng, Shao Jun *see* **Li, Xi Can et al.**
Fishburn, Peter C. *see* **Brams, Steven J. et al., 2005b:90057**
Funari, Stefania *see* **Basso, Antonella**
Gaonkar, Roshan (*with* Viswanadham, Nukala) Integrated planning in supply chains with buy-side and sell-side marketplaces. (English summary)
Golany, Boaz *see* **Cohen, Izack et al., 2005k:90057**
Greenstein, Gil *see* **Ahituv, Niv, 2005e:90047**
Grosfeld-Nir, Abraham A two-bottleneck system with binomial yields and rigid demand. (English summary)
Guo, Hua *see* **Hu, Jian-Guo et al.**
Hain, Roland (*with* Mitra, Manipushpak) Simple sequencing problems with interdependent costs. (English summary) **2005a:90087**
Hall, Nicholas G. (*with* Potts, Chris N.) The coordination of scheduling and batch deliveries. (English summary) **2005k:90058**
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Hsieh, Fu-Shiung Robustness of deadlock avoidance algorithms for sequential processes. (English summary) **2005k:90059**
— Model and control holonic manufacturing systems based on fusion of contract nets and Petri nets. (English summary)
Hu, Jian-Guo (*with* Feng, En Min; Guo, Hua) A coordinated policy model in distribution system with stochastic demand. (English summary)
Huang, He Jiao (*with* Jiao, Li; Cheung, To-Yat) Property-preserving subnet reductions for designing manufacturing systems with shared resources. (English summary) **2005i:90028**
Huang, Yung-Fu Retailer's ordering and payment policy under trade credit and cash discount. (English summary)
Ivanov, D. V. (*with* Karaulova, I. V.; Markova, E. V.; Trufanov, V. V.; Khamisov, O. V.) Numerical solutions of the problem of the management of the development of an electrical power system. (Russian. Russian summary)
Jain, Vipul (*with* Wadhwa, S.; Deshmukh, S. G.) e-commerce and supply chains: modelling of dynamics through fuzzy enhanced high level Petri net. (English summary)
Jane, Chin-Chia (*with* Laih, Yih-Wenn) A clustering algorithm for item assignment in a synchronized zone order picking system. (English summary)
Janssen, Ron *see* **Stewart, Theodor J. et al.**
Jiao, Li *see* **Huang, He Jiao et al., 2005i:90028**
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Junker, Ulrich Preference-based search and multi-criteria optimization. (English summary) **2005e:90050**
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Khamisov, O. V. *see* **Ivanov, D. V. et al.**
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Kotake, Masahiro *see* **Zhao, Zhenying et al.**
Kou, Gang (*with* Peng, Yi[2]; Shi, Yong[1]; Wise, Morgan; Xu, Weixuan) Discovering credit cardholders' behavior by multiple criteria linear programming. (English summary) **2005k:90060**
Krichen, S. *see* **Ben Abdelaziz, Foued**
Küçükyazıcı, Beste (*with* Özdamar, Linet; Pokharel, Shaligram) Developing concurrent investment plans for power generation and transmission. (English summary)
Laih, Yih-Wenn *see* **Jane, Chin-Chia**

Laporte, Gilbert *see* **Asef-Vaziri, Ardavan**
Li, Michael Z. F. Pricing non-storable perishable goods by using a purchase restriction: general optimality results. (English summary)
Li, Xi Can (*with* Feng, Shao Jun; Yang, Qing Hai; Yu, Su Zhen) Cross interacted algorithm of multiobjective and multidimensional fuzzy making decision. (Chinese. English and Chinese summaries)
Liang, Shing-Ko (*with* Yang, Kuo-Lung; Chu, Peter) Analysis of fuzzy multiobjective programming to CPM in project management. (English summary)
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López-Mellado, Ernesto *see* **Rivera-Rangel, I. et al., 2005m:90051**
Lübbecke, Marco E. Combinatorially simple pickup and delivery paths. (English summary) **2005m:90050**
Mahapatra, Nirmal Kumar (*with* Maiti, Manoranjan) Decision process for multiobjective, multi-item production-inventory system via interactive fuzzy satisficing technique. (English summary)
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Matcovschi, Mihaela-Hanako (*with* Mahulea, Cristian) Timing in rule-based control of flexible manufacturing systems. (French summary)
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Mikhailov, Ludmil A fuzzy approach to deriving priorities from interval pairwise comparison judgements. (English summary) **2005c:90038**
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Nagurney, Anna *see* **Dong, June et al.**
Nakayama, Hirotaka J. *see* **Yun, Ye Boon et al., 2005i:90029**
Natarajan, Ramachandran (*with* Sethuraman, Kannan; Surysekar, Krishnamurthy) Reducing incremental costs associated with the delegation of incentive contracting decisions: an analysis of planning and control decisions in a manufacturing setting in the presence of moral hazard. (English summary)
Ng, Michael K. *see* **Ching, Wai Ki et al., 2005a:90085**
Oliviero, Giuseppe *see* **Avella, Pasquale et al., 2005m:90049**
Osman, M. S. (*with* Abo-Sinna, Mahmoud A.; Amer, Azza H.; Emam, O. E.) A multi-level non-linear multi-objective decision-making under fuzziness. (English summary) **2005b:90059**
— (*with* Abo-Sinna, Mahmoud A.; Mousa, A. A.) An effective genetic algorithm approach to multiobjective routing problems (MORPs). (English summary)
Özdamar, Linet *see* **Küçükyazıcı, Beste et al.**
Ozmutlu, Seda (*with* Harmonosky, Catherine M.) A real-time methodology for minimizing mean flowtime in FMSs with routing flexibility: threshold-based alternate routing. (English summary)
Peldschus, Friedel (*with* Zavadskas, Edmundas Kazimieras) Fuzzy matrix games multicriteria model for decision-making in engineering. (English and Lithuanian summaries)
Peng, Yi[2] *see* **Kou, Gang et al., 2005k:90060**
Petruzzi, Nicholas C. *see* **Yalabik, Baris et al., 2005g:90068**
Pokharel, Shaligram *see* **Küçükyazıcı, Beste et al.**
Potts, Chris N. *see* **Hall, Nicholas G., 2005k:90058**
Propoĭ, A. I. Two models in optimization and control. (Russian. Russian summary) **2005d:90059**
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Resende, Maurício G. C. *see* **Buriol, L. S. et al.**
Ribeiro, Celso C. *see* **Buriol, L. S. et al.**
Rivera-Rangel, I. (*with* Ramírez-Treviño, A.; López-Mellado, Ernesto) Building reduced Petri net models of discrete manufacturing systems. (English summary) **2005m:90051**
Saen, Reza Farzipoor (*with* Memariani, Azizollah; Hosseinzadeh Lotfi, F.) Determining relative efficiency of slightly non-homogeneous decision making units by data envelopment analysis: a case study in IROST. (English summary)
Savin, Sergei (*with* Terwiesch, Christian) Optimal product launch times in a duopoly: balancing life-cycle revenues with product cost. (English summary)
Schwehm, Christian *see* **Ehrgott, Matthias et al., 2005a:90086**
Seshadri, Sridhar *see* **Agrawal, Vipul et al., 2005c:90037**
Sethi, Suresh P. (*with* Yan, Houmin; Zhang, Han Qin) Analysis of a duopoly supply chain and its application in electricity spot markets. (English summary)
Sethuraman, Kannan *see* **Natarajan, Ramachandran et al.**
Sforza, Antonio *see* **Avella, Pasquale et al., 2005m:90049**
Shakhnov, I. F. ★ Согласование решений в сложных системах: ранжирование интервальных объектов. (Russian. Russian summary) [Agreement of solutions in complex systems: ranking of interval objects]
Shevasuthisilp, Suntichai (*with* Vardeman, Stephen B.) Development programs for one-shot systems using multiple-state design reliability models. (English summary) **2005e:90051**
Shi, Yong[1] *see* **Kou, Gang et al., 2005k:90060**
Shtub, Avraham *see* **Cohen, Izack et al., 2005k:90057**
Shuiabi, Eyas (*with* Thomson, Vince; Bhuiyan, Nadia) Entropy as a measure of operational flexibility. (English summary)
Sleptsov, A. I. (*with* Tyshchuk, T. A.) A method for computing the characteristics of operations in a problem of fuzzy network planning and management. (Russian. English and Ukrainian summaries)
Slomp, Jannes (*with* Suresh, Nallan C.) The shift team formation problem in multi-shift manufacturing operations. (English summary)
Song, Hai Zhou A method based on objective adjacent scale for multi-objective decision-making and its application. (Chinese. English and Chinese summaries)
Stewart, Theodor J. (*with* Janssen, Ron; van Herwijnen, Marjan) A genetic algorithm approach to multiobjective land use planning. (English summary)
Sundararajan, Satheesh K. *see* **Tseng, Chung-Li et al.**
Suo, Han Sheng (*with* Wang, Jing Chun; Jin, Yi Hui) Supply chain coordination with sales effort effects and impact of loss aversion on effort decision. (English summary)
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Surysekar, Krishnamurthy *see* **Natarajan, Ramachandran et al.**
Suzuki, Junsuke *see* **Taji, Kouichi et al., 2005e:90052**
Syau, Yu-Ru *see* **Wang, Liya, 2005d:90060**
Taji, Kouichi (*with* Suzuki, Junsuke; Takahashi, Satoru[2]; Tamura, Hiroyuki[1]) Experimental analysis for rational decision making by aspiration level AHP. (English summary) **2005e:90052**
Takahashi, Satoru[2] *see* **Taji, Kouichi et al., 2005e:90052**
Tamura, Hiroyuki[1] *see* **Taji, Kouichi et al., 2005e:90052**
Tang, Qi Backward stochastic differential equations and discrete investment decision-making processes. (Chinese. English and Chinese summaries)
Terwiesch, Christian *see* **Savin, Sergei**
Tewary, Ashish Kumar *see* **Balasubramanian, Parasuram**
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Thorup, Mikkel *see* **Buriol, L. S. et al.**
Tong, Jun (*with* Xi, Hong Sheng; Kang, Yu; Zhang, Da Li[2]; Xiao, Xiao Bo) Optimal control of a failure-prone manufacturing system in tandem. (Chinese. English and Chinese summaries)
Troiano, L. *see* **Canfora, G., 2005k:90056**
Trufanov, V. V. *see* **Ivanov, D. V. et al.**
Tseng, Chung-Li (*with* Lin, Kyle Y.; Sundararajan, Satheesh K.) Managing cost overrun risk in project funding allocation. (English summary)
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Wadhwa, S. *see* **Jain, Vipul et al.**
Wang, Jing Chun *see* **Suo, Han Sheng et al.**
Wang, Jun[3] Formation of machine cells and part families in cellular manufacturing systems using a linear assignment algorithm. (English summary)
Wang, Liya (*with* Syau, Yu-Ru) Fuzzy φ-convexity and fuzzy decision making. (English summary) **2005d:90060**
Wang, Ying-Ming On fuzzy multiattribute decision-making models and methods with incomplete preference information. (English summary)
Wen, Ya A backward algorithm for investment decision-making processes. (Chinese. English and Chinese summaries)
Wise, Morgan *see* **Kou, Gang et al., 2005k:90060**
Wong, Ka-Kuen *see* **Ching, Wai Ki et al., 2005a:90085**
Xi, Hong Sheng *see* **Tong, Jun et al.**
Xiao, Xiao Bo *see* **Tong, Jun et al.**
Xing, Gong Qi Central factors selection of organization networks based on integrity. (Chinese. English and Chinese summaries)
Xu, Li Mei (*with* Zeng, Lin Rui) The expected value of sampling information for a linear decision problem on two actions under the Γ-P model. (Chinese. English and Chinese summaries) **2005g:90067**
Xu, Weixuan *see* **Kou, Gang et al., 2005k:90060**
Xu, Ze Shui On method for uncertain multiple attribute decision making problems with uncertain multiplicative preference information on alternatives. (English summary)
Yalabik, Baris (*with* Petruzzi, Nicholas C.; Chhajed, Dilip) An integrated product returns model with logistics and marketing coordination. (English summary) **2005g:90068**
Yan, Hong[2] *see* **Dong, June et al.**
Yan, Houmin *see* **Sethi, Suresh P. et al.**
Yang, Kuo-Lung *see* **Liang, Shing-Ko et al.**
Yang, Qing Hai *see* **Li, Xi Can et al.**
Yu, Haining (*with* Cassandras, Christos G.) Perturbation analysis for production control and optimization of manufacturing systems. (English summary)
Yu, Su Zhen *see* **Li, Xi Can et al.**
Yun, Ye Boon (*with* Nakayama, Hirotaka J.; Arakawa, M.) Multiple criteria decision making with generalized DEA and an aspiration level method. (English summary) **2005i:90029**
Zavadskas, Edmundas Kazimieras *see* **Peldschus, Friedel**
Zeng, Lin Rui *see* **Xu, Li Mei, 2005g:90067**
Zhang, Da Li[2] *see* **Tong, Jun et al.**
Zhang, Ding *see* **Dong, June et al.**
Zhang, Han Qin *see* **Sethi, Suresh P. et al.**
Zhao, Zhenying (*with* Ball, Michael O.; Kotake, Masahiro) Optimization-based available-to-promise with multi-stage resource availability. (English summary)
Zhukovskaya, L. V. (*with* Mikrin, E. A.) A new approach to the estimation of the effectiveness of control decisions under risk conditions in automatic control systems. (Russian. Russian summary) **2005d:90061**
— (*with* Mikrin, E. A.) A new approach to risk estimation in multicriterial automatic control systems. II. (Russian. Russian summary)

Items with secondary classifications in 90B50

Ahmed, Shabbir[1] *see* **Santoso, Tjendera et al.**
Alirezaee, Mohammad Reza The overall assurance interval for the non-Archimedean Epsilon in DEA models; a partition base algorithm. (English summary)
— *see also* **MirHassani, S. A.**
Altman, Eitan *see* **Boulogne, Thomas, 2005m:90016**
Amirteimoori, Alireza (*with* Kordrostami, Sohrab) Efficient surfaces and an efficiency index in DEA: a constant returns to scale. (English summary)
Angilella, Silvia (*with* Greco, Salvatore; Lamantia, Fabio; Matarazzo, Benedetto) Assessing non-additive utility for multicriteria decision aid. (English summary) **2005b:90112**
Anli, Osman M. (*with* Caramanis, Michael C.; Paschalidis, Ioannis Ch.) Supply chain production planning modeling facility lead time and quality of service. (English summary)

Aronsson, Martin *see* **Sjöland, Thomas et al.**, (2005f:68005a)

Augustin, Thomas[1] Optimal decisions under complex uncertainty—basic notions and a general algorithm for data-based decision making with partial prior knowledge described by interval probability. (English summary)

Babaev, Dzh. A. *see* **Cox, Louis Anthony, Jr.**, 2005k:90089

Beaujon, George *see* **Eskigun, Erdem et al.**

Bish, Douglas R. *see* **Bish, Ebru K. et al.**, 2005a:90078

Bish, Ebru K. (*with* Suwandechochai, Rawee; Bish, Douglas R.) Strategies for managing the flexible capacity in the airline industry. (English summary) **2005a:90078**

Bit, A. K. Fuzzy programming with hyperbolic membership functions for multiobjective capacitated solid transportation problem. (English summary)

Bogataj, Ludvik (*with* Bogataj, Marija; Ferbar, Liljana) Controllability of supply chain, controlled in Laplace-transformed space. (English summary)

Bogataj, Marija *see* **Bogataj, Ludvik et al.**

Boulogne, Thomas (*with* Altman, Eitan) Competitive routing in multicast communications. (English summary) **2005m:90016**

Bouyssou, Denis Monotonicity of 'ranking by choosing': a progress report. (English summary) **2005g:91073**

Caramanis, Michael C. *see* **Anli, Osman M. et al.**

Caulkins, Jonathan P. *see* **Gavrila, C. et al.**, 2005h:49095

Chandra, Charu (*with* Grabis, Jānis) Application of multi-steps forecasting for restraining the bullwhip effect and improving inventory performance under autoregressive demand. (English summary)

Chang, Ping-Teng Fuzzy strategic replacement analysis. (English summary) **2005g:90032**

Chao, Xiuli *see* **Dai, Yue et al.**, 2005m:90004

Chen, Ling-Show (*with* Cheng, Ching-Hsue) Selecting IS personnel use fuzzy GDSS based on metric distance method. (English summary)

Cheng, Ching-Hsue *see* **Chen, Ling-Show**

Chu, Peter *see* **Hung, Chih-Young et al.**

Chung, Kun-Jen (*with* Huang, T'ien Shou) The optimal cycle time for deteriorating items under permitted delay of payment. (English summary)

Clímaco, João Carlos Namorado *see* **Costa, João Paulo et al.**

Cooper, William L. *see* **Zhang, Dan**[5]

(Cooper, William W.) *see* **Handbook: Data envelopment analysis**, 2005f:90005

Costa, João Paulo (*with* Godinho, Pedro Cortesão; Clímaco, João Carlos Namorado) Exploring financial strategies: a multiobjective visual reference point approach. (English summary)

Cox, Louis Anthony, Jr. (*with* Babaev, Dzh. A.) Optimization under uncertainty via random sampling of scenarios. I. (English summary) **2005k:90089**

Crama, Yves (*with* Pascual J., R.; Torres, Andrea) Optimal procurement decisions in the presence of total quantity discounts and alternative product recipes. (English summary) **2005b:90015**

Dai, Yue (*with* Chao, Xiuli; Fang, Shu-Cherng; Nuttle, Henry L. W.) Game theoretic analysis of a distribution system with customer market search. (English summary) **2005m:90004**

Dasci, Abdullah (*with* Verter, Vedat) Evaluation of plant focus strategies: a continuous approximation framework. (English summary)

Dellnitz, Michael (*with* Schütze, O.; Hestermeyer, T.) Covering Pareto sets by multilevel subdivision techniques. (English summary) **2005k:90132**

Deng, Peter Shaohua *see* **Hung, Chih-Young et al.**

(Donets, V. M.) *see* **Kolbin, Vyacheslav Viktorovich**, 2005e:91001

Duan, Yong Rui (*with* Tian, Peng; Zhang, Wei Ping[3]) Relative efficiency analysis of complex systems based on data envelopment analysis. (Chinese. English and Chinese summaries)

Dumitrescu, Silviu *see* **Pop, Bogdana**, 2005a:90204

Ecker, Klaus H. (*with* Gupta, Jatinder N. D.) Scheduling tasks on a flexible manufacturing machine to minimize tool change delays. (English summary) **2005g:90050**

Ehlers, Lars (*with* Klaus, Bettina) Resource-monotonicity for house allocation problems. (English summary) **2005i:91074**

Eliaz, Kfir Social aggregators. (English summary) **2005c:91042**

Eskigun, Erdem (*with* Uzsoy, Reha; Preckel, Paul V.; Beaujon, George; Krishnan, Subramanian; Tew, Jeffrey D.) Outbound supply chain network design with mode selection, lead times and capacitated vehicle distribution centers. (English summary)

Fan, Yu Shun *see* **Zhang, Xiao Li et al.**

Fang, Shu-Cherng *see* **Dai, Yue et al.**, 2005m:90004

Feichtinger, Gustav *see* **Gavrila, C. et al.**, 2005h:49095

Feng, Q. (*with* Gallego, Guillermo; Sethi, Suresh P.; Yan, Houmin; Zhang, Han Qin) Periodic-review inventory model with three consecutive delivery modes and forecast updates. (English summary) **2005m:90006**

Ferbar, Liljana *see* **Bogataj, Ludvik et al.**

Fernández García, Francisco Ramón (*with* Hinojosa, Miguel A.; Puerto Albandoz, Justo) Set-valued TU-games. (English summary) **2005d:91008**

Frauendorfer, Karl (*with* Schürle, Michael) Management of non-maturing deposits by multistage stochastic programming. (English summary) **2005b:91179**

Gallego, Guillermo *see* **Feng, Q. et al.**, 2005m:90006

Galperin, Efim A. Balance set and Pareto solutions in linear spaces with application to ongoing optimal resource allocation, investment planning, production, and control problems with multiple objectives. (English summary) **2005f:90105**

Gavrila, C. (*with* Caulkins, Jonathan P.; Feichtinger, Gustav; Tragler, Gernot; Hartl, Richard F.) Managing the reputation of an award to motivate performance. (English summary) **2005h:49095**

Ghazanfari, Mehdi (*with* Nojavan, Majid) Reducing inconsistency in fuzzy AHP by mathematical programming models. (English summary)

Ghirardato, Paolo (*with* Maccheroni, Fabio; Marinacci, Massimo) Differentiating ambiguity and ambiguity attitude. (English summary) **2005k:91088**

Ghiselli Ricci, Roberto Finitely and absolutely non idempotent aggregation operators. (English summary)

Ghosh, Debasis *see* **Sharma, Dinesh K. et al.**

Giua, Alessandro (*with* Piccaluga, Aldo; Seatzu, Carla) Firing rate optimization of cyclic timed event graphs by token allocations. (English summary)

Godinho, Pedro Cortesão *see* **Costa, João Paulo et al.**

Goetschalckx, Marc *see* **Santoso, Tjendera et al.**

Golany, Boaz *see* **Yang, Jian**[4] **et al.**

Grabis, Jānis *see* **Chandra, Charu**

Greco, Salvatore *see* **Angilella, Silvia et al.**, 2005b:90112

Gupta, Jatinder N. D. *see* **Ecker, Klaus H.**, 2005g:90050

Gutiérrez, José Miguel (*with* Puerto Albandoz, Justo; Sicilia Rodríguez, J.) The multiscenario lot size problem with concave costs. (English summary) **2005a:90012**

Hadi Vencheh, A. (*with* Kazemi Matin, R.; Tavassoli Kajani, M.) Undesirable factors in efficiency measurement. (English summary)

Hartl, Richard F. *see* **Gavrila, C. et al.**, 2005h:49095

Herrero, Ines Different approaches to efficiency analysis. An application to the Spanish trawl fleet operating in Moroccan waters. (English summary)

Hestermeyer, T. *see* **Dellnitz, Michael et al.**, 2005k:90132

Hinojosa, Miguel A. *see* **Fernández García, Francisco Ramón et al.**, 2005d:91008

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Huang, Daisy M. H. *see* **Hung, Chih-Young et al.**

Huang, T'ien Shou *see* **Chung, Kun-Jen**

Huh, Woonghee Tim (*with* Roundy, Robin O.) A continuous-time strategic capacity planning model. (English summary)

Huisman, Kuno J. M. (*with* Kort, Peter M.) Strategic technology adoption taking into account future technological improvements: a real options approach. (English summary) **2005b:91035**

Hung, Chih-Young (*with* Tang, Titus; Huang, Daisy M. H.; Deng, Peter Shaohua; Lin, Robert Huang-Jing; Chu, Peter) Analytic inventory model with a mixture of back orders and lost sales. (English summary)

Isada, Yuriko (*with* James, Ross J. W.; Nakagawa, Yuji) An approach for solving nonlinear multi-objective separable discrete optimization problem with one constraint. (English summary)

Iwata, Satoru (*with* Zuiki, Nozomu) A network flow approach to cost allocation for rooted trees. (English summary) **2005f:91036**

Jahanshahloo, Gholamreza (*with* Memariani, Azizollah; Hosseinzadeh Lotfi, F.; Zhiani Rezai, H.) A note on some of DEA models and finding efficiency and complete ranking using common set of weights. (English summary)

James, Ross J. W. *see* **Isada, Yuriko et al.**

Jia, Lixing *see* **Syau, Yu-Ru et al.**, 2005f:90178

Joshi, Pradeep K. (*with* Sharma, Pramod C.; Upadhyay, Samar; Sharma, Sourabh) Multi objective fuzzy decision making approach for selection of type of caisson for bridge foundation. (English summary) **2005k:90135**

Józefowska, Joanna (*with* Waligóra, Grzegorz) Heuristic procedures for allocating the continuous resource in discrete-continuous scheduling problems. (English summary)

Jung, Hoon (*with* Klein, Cerry M.) Optimal inventory policies for an economic order quantity model with decreasing cost functions. (English summary)

Karavaev, A. P. Unified stimulation systems. (Russian. Russian summary) **2005f:91044**

Karsak, E. Ertugrul (*with* Özogul, C. Okan) Valuation of expansion flexibility in flexible manufacturing system investments using sequential exchange options. (English summary)

Katayama, Tsuyoshi Level-crossing approach to a time-limited service system with two types of vacations. (English summary)

Kazemi Matin, R. *see* **Hadi Vencheh, A. et al.**

Khouja, Moutaz The use of minor setups within production cycles to improve product quality and yield. (English summary)

Kianfar, Farhad Optimal production and maintenance control under a time variant demand. (English summary)

Klaus, Bettina *see* **Ehlers, Lars**, 2005i:91074

Klein, Cerry M. *see* **Jung, Hoon**

Kojadinovic, Ivan Estimation of the weights of interacting criteria from the set of profiles by means of information-theoretic functionals. (English summary) **2005a:90143**

Kolbin, Vyacheslav Viktorovich ★ Decision making and programming. **2005e:91001**

Kordrostami, Sohrab *see* **Amirteimoori, Alireza**

Kort, Peter M. *see* **Huisman, Kuno J. M.**, 2005b:91035

Kreuger, Per *see* **Sjöland, Thomas et al.**, (2005f:68005a)

Krishnan, Subramanian *see* **Eskigun, Erdem et al.**

Lamantia, Fabio *see* **Angilella, Silvia et al.**, 2005b:90112

Laporte, Gilbert (*with* Mesa, Juan A.; Ortega Riejos, Francisco A.; Sevillano, Ignacio) Maximizing trip coverage in the location of a single rapid transit alignment. (English summary)

Larsen, Christian Comparing two socially optimal work allocation rules when having a profit optimizing subcontractor with ample capacity. (English summary) **2005k:90026**

Lee, E. Stanley *see* **Syau, Yu-Ru et al.**, 2005f:90178

Li, Chang Hong *see* **Ma, Xiao Yan**

Li, Jingshan (*with* Meerkov, Semyon M.) Evaluation of throughput in serial production lines with non-exponential machines. (English summary)

Limayem, F. (*with* Yannou, B.) Generalization of the RCGM and LSLR pairwise comparison methods. (English summary)

Lin, Chinho (*with* Lin, Yihsu) The production size and inventory policy for a manufacturer in a two-echelon inventory model. (English summary) **2005g:90008**

Lin, Robert Huang-Jing *see* **Hung, Chih-Young et al.**

Lin, Yihsu *see* **Lin, Chinho**, 2005g:90008

Ma, Xiao Yan (*with* Li, Chang Hong) On a logarithmic least absolute deviation priority method in AHP. (Chinese. English and Chinese summaries)

Maccheroni, Fabio *see* **Ghirardato, Paolo et al.**, 2005k:91088

Marinacci, Massimo *see* **Ghirardato, Paolo et al.**, 2005k:91088

Matarazzo, Benedetto *see* **Angilella, Silvia et al.**, 2005b:90112

Mattison, Dorothy M. *see* **Sharma, Dinesh K. et al.**

Meerkov, Semyon M. *see* **Li, Jingshan**

Mehrotra, Anuj (*with* Shantz, Joseph; Trick, Michael A.) Determining newspaper marketing zones using contiguous clustering. (English summary) **2005g:90075**

Memariani, Azizollah *see* **Jahanshahloo, Gholamreza et al.**

Mesa, Juan A. *see* **Laporte, Gilbert et al.**

Mészáros, Csaba (*with* Rapcsák, Tamás) A remark on: "Strict preference and sensitivity analysis in additive utility functions with interval data" [CEJOR Cent. Eur. J. Oper. Res. **12** (2004), no. 3, 233–249; MR2085395 (2005d:90111)] by R. Vetschera. (English summary)
MirHassani, S. A. (*with* Alirezaee, Mohammad Reza) An efficient approach for computing non-Archimedean ϵ in DEA based on integrated models. (English summary)
Mitran, Ilie On the maximum probability criteria concerning the sequential decision-making problem. (English summary) **2005a:91028**
Nakagawa, Yuji *see* **Isada, Yuriko et al.**
Nakai, Tōru Properties of total positivity and an application to job search under uncertainty. (English summary) **2005h:62024**
Neralić, Luka Preservation of efficiency and inefficiency classification in data envelopment analysis. (English summary) **2005b:90074**
Ng, Jonathan Wing-Cheong Crane scheduling in container yards with inter-crane interference. (English summary)
Nguyễn Đông Yên *see* **Nguyen Quang Huy et al., 2005h:90124**
Nguyen Quang Huy (*with* Ta Duy Phu'o'ng; Nguyễn Đông Yên) On the contractibility of the efficient and weakly efficient sets in $\mathbb{R}^2$. (English summary) **2005h:90124**
Nogin, V. D. A simplified variant of a method for the analysis of hierarchies, based on a nonlinear convolution of criteria. (Russian. Russian summary) **2005i:90062**
Nojavan, Majid *see* **Ghazanfari, Mehdi**
Nuttle, Henry L. W. *see* **Dai, Yue et al., 2005m:90004**
Ortega Riejos, Francisco A. *see* **Laporte, Gilbert et al.**
Ozdemir, Müjgan Sagir Validity and inconsistency in the analytic hierarchy process. (English summary)
Özogul, C. Okan *see* **Karsak, E. Ertugrul**
Pan, Yan Chun *see* **Zheng, Yun[2]**
Paschalidis, Ioannis Ch. *see* **Anli, Osman M. et al.**
Pascual J., R. *see* **Crama, Yves et al., 2005b:90015**
Pearn, Wen Lea (*with* Wu, Chien-Wei) A Bayesian approach for assessing process precision based on multiple samples. (English summary)
Perny, Patrice (*with* Spanjaard, Olivier) A preference-based approach to spanning trees and shortest paths problems. (English summary) **2005h:90111**
Piccaluga, Aldo *see* **Giua, Alessandro et al.**
Pinedo, Michael L. ★ Planning and scheduling in manufacturing and services. **2005g:90004**
Pop, Bogdana (*with* Dumitrescu, Silviu) Fuzzy control rules in linear fractional programming problems. (English and Romanian summaries) **2005a:90204**
Porter, Ryan (*with* Shoham, Yoav; Tennenholtz, Moshe) Fair imposition. (English summary) **2005f:91009**
Powell, Warren B. *see* **Topaloglu, Huseyin**
Preckel, Paul V. *see* **Eskigun, Erdem et al.**
Prybutok, Victor R. (*with* Ramasesh, Ranga) An action-research based instrument for monitoring continuous quality improvement. (English summary)
Puerto Albandoz, Justo *see* **Gutiérrez, José Miguel et al., 2005a:90012** *and* **Fernández García, Francisco Ramón et al., 2005d:91008**
Qi, Xiangtong *see* **Yu, Gang[2], 2005h:90005** *and* **Yang, Jian[4] et al.**
Ramasesh, Ranga *see* **Prybutok, Victor R.**
Rapcsák, Tamás *see* **Mészáros, Csaba**
Rogers, L. C. G. Duality in constrained optimal investment and consumption problems: a synthesis. **2005c:91067**
Roundy, Robin O. *see* **Huh, Woonghee Tim**
van Ryzin, Garrett J. *see* **Talluri, Kalyan T.**
Santoso, Tjendera (*with* Ahmed, Shabbir[1]; Goetschalckx, Marc; Shapiro, Alexander) A stochastic programming approach for supply chain network design under uncertainty. (English summary)
Scarf, Philip (*with* Shi, Xin) Modelling match outcomes and decision support for setting a final innings target in test cricket. (English summary) **2005k:93008**
Schochetman, Irwin E. (*with* Smith, Robert L.) Existence of efficient solutions in infinite horizon optimization under continuous and discrete controls. (English summary) **2005d:49003**
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Schütze, O. *see* **Dellnitz, Michael et al., 2005k:90132**
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(Seiford, Lawrence M.) *see* **Handbook: Data envelopment analysis, 2005f:90005**
Sekitani, Kazuyuki *see* **Sueyoshi, Toshiyuki, 2005f:90066**
Sethi, Suresh P. (*with* Zhang, Han Qin; Zhang, Qing[1]) ★ Average-cost control of stochastic manufacturing systems. **2005k:93002**
— *see also* **Feng, Q. et al., 2005m:90006**
Sevillano, Ignacio *see* **Laporte, Gilbert et al.**
Shantz, Joseph *see* **Mehrotra, Anuj et al., 2005g:90075**
Shapiro, Alexander *see* **Santoso, Tjendera et al.**
Sharma, Dinesh K. (*with* Ghosh, Debasis; Mattison, Dorothy M.) Finding economic order quantities with nonlinear goal programming. (English summary)
Sharma, Pramod C. *see* **Joshi, Pradeep K. et al., 2005k:90135**
Sharma, Sourabh *see* **Joshi, Pradeep K. et al., 2005k:90135**
Sheng, Zhaohan *see* **Xiao, Tiao Jun[2] et al.**
Sheu, Shey-Huei (*with* Yu, Kun-Tzu) Testing integrated process capability for a multi-characteristics product. (English summary)
Shi, Xin *see* **Scarf, Philip, 2005k:93008**
Shoham, Yoav *see* **Porter, Ryan et al., 2005f:91009**
Sicilia Rodríguez, J. *see* **Gutiérrez, José Miguel et al., 2005a:90012**
Sjöland, Thomas (*with* Kreuger, Per; Aronsson, Martin) Heterogeneous scheduling and rotation. (English summary) (*see* **2005f:68005a**)
Smith, Robert L. *see* **Schochetman, Irwin E., 2005d:49003**
Song, Shi Ji *see* **Zhang, Long et al., 2005j:91053** *and* **Zhang, Xiao Li et al.**
Spanjaard, Olivier *see* **Perny, Patrice, 2005h:90111**
Stoilov, T. *see* **Stoilova, K. et al.**
Stoilova, K. (*with* Stoilov, T.; Yoshinov, R.) Predictive coordination in two level hierarchical systems. (English summary)
Sueyoshi, Toshiyuki (*with* Sekitani, Kazuyuki) Returns to scale in dynamic DEA. (English summary) **2005f:90066**
Sun, Minghe Some issues in measuring and reporting solution quality of interactive multiple objective programming procedures. (English summary) **2005f:90110**
Suwandechochai, Rawee *see* **Bish, Ebru K. et al., 2005a:90078**
Syau, Yu-Ru (*with* Lee, E. Stanley; Jia, Lixing) Convexity and upper semicontinuity of fuzzy sets. (English summary) **2005f:90178**
Ta Duy Phu'o'ng *see* **Nguyen Quang Huy et al., 2005h:90124**
Talluri, Kalyan T. (*with* van Ryzin, Garrett J.) ★ The theory and practice of revenue management.
Tang, Titus *see* **Hung, Chih-Young et al.**
Tapking, Jens Axioms for preferences revealing subjective uncertainty and uncertainty aversion. (English summary) **2005f:91055**
Tavassoli Kajani, M. *see* **Hadi Vencheh, A. et al.**
Tennenholtz, Moshe *see* **Porter, Ryan et al., 2005f:91009**
Tew, Jeffrey D. *see* **Eskigun, Erdem et al.**
Tian, Peng *see* **Duan, Yong Rui et al.**
Topaloglu, Huseyin (*with* Powell, Warren B.) A distributed decision-making structure for dynamic resource allocation using nonlinear functional approximations. (English summary)
Torres, Andrea *see* **Crama, Yves et al., 2005b:90015**
Tragler, Gernot *see* **Gavrila, C. et al., 2005h:49095**
Trick, Michael A. *see* **Mehrotra, Anuj et al., 2005g:90075**
Upadhyay, Samar *see* **Joshi, Pradeep K. et al., 2005k:90135**
Uzsoy, Reha *see* **Eskigun, Erdem et al.**
Verter, Vedat *see* **Dasci, Abdullah**
Vetschera, Rudolf Strict preference and sensitivity analysis in additive utility functions with interval data. (English summary) **2005d:90111**
— *see also* **Mészáros, Csaba**
Waligóra, Grzegorz *see* **Józefowska, Joanna**
Wang, Min-Chiang *see* **Yue, Jinfeng**
Wang, Xu Zhu A note on congruence conditions of fuzzy choice functions. (English summary) **2005d:91032**
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Wu, Chien-Wei *see* **Pearn, Wen Lea**
Xia, Yusen *see* **Xiao, Tiao Jun[2] et al.**
Xiao, Tiao Jun[2] (*with* Yu, Gang[2]; Sheng, Zhaohan; Xia, Yusen) Coordination of a supply chain with one-manufacturer and two-retailers under demand promotion and disruption management decisions. (English summary)
Yan, Houmin *see* **Feng, Q. et al., 2005m:90006**
Yang, Jian[4] (*with* Qi, Xiangtong; Yu, Gang[2]) Disruption management in production planning. (English summary)
— (*with* Golany, Boaz; Yu, Gang[2]) A concave-cost production planning problem with remanufacturing options. (English summary)
Yannou, B. *see* **Limayem, F.**
Yoshinov, R. *see* **Stoilova, K. et al.**
Yu, Gang[2] (*with* Qi, Xiangtong) ★ Disruption management. **2005h:90005**
— *see also* **Xiao, Tiao Jun[2] et al.** *and* **Yang, Jian[4] et al.**
Yu, Kun-Tzu *see* **Sheu, Shey-Huei**
Yue, Jinfeng (*with* Wang, Min-Chiang) Robust commit time decisions and bounds for measuring demand-side quality costs. (English summary)
Zaras, Kazimierz Rough approximation of a preference relation by a multi-attribute dominance for deterministic, stochastic and fuzzy decision problems. (English summary) **2005a:90148**
Zhang, Dan[5] (*with* Cooper, William L.) Revenue management for parallel flights with customer-choice behavior. (English summary)
Zhang, Han Qin *see* **Sethi, Suresh P. et al., 2005k:93002** *and* **Feng, Q. et al., 2005m:90006**
Zhang, Long (*with* Song, Shi Ji; Wu, Cheng[3]) Supply chain coordination of loss-averse newsvendor with contract. (English summary) **2005j:91053**
Zhang, Qing[1] *see* **Sethi, Suresh P. et al., 2005k:93002**
Zhang, Wei Ping[3] *see* **Duan, Yong Rui et al.**
Zhang, Xiao Li (*with* Fan, Yu Shun; Song, Shi Ji) Analytical restriction degree of reverse triple I method for fuzzy reasoning with Lukasiewicz's implication operator. (Chinese. English and Chinese summaries)
Zheng, Yun[2] (*with* Pan, Yan Chun) The confirmation of stock in the dynamic and stochastic production function model. (Chinese. English and Chinese summaries)
Zhiani Rezai, H. *see* **Jahanshahloo, Gholamreza et al.**
(Zhu, Joe) *see* **Handbook: Data envelopment analysis, 2005f:90005**
Zuiki, Nozomu *see* **Iwata, Satoru, 2005f:91036**

Items listed otherwise than by author

Handbook:
Data envelopment analysis ★ Handbook on data envelopment analysis. **2005f:90005**

90B60 Marketing, advertising [see also 91B60]

Anandalingam, G. *see* **Viswanathan, Siva**
Bass, F. M. (*with* Krishnamoorthy, A.; Prasad, Ashutosh; Sethi, Suresh P.) Advertising competition with market expansion for finite horizon firms. (English summary) **2005j:90035**
Buckinx, Wouter *see* **Van den Poel, Dirk**
Chen, Di-lan (*with* Sun, Ji-tao) Impulsive control of a advertising system. (English and Chinese summaries) **2005k:90061**
Chudak, Fabián A. (*with* Williamson, David P.) Improved approximation algorithms for capacitated facility location problems. (English summary) **2005k:90062**
Chun, Young H. (*with* Sumichrast, Robert T.) Estimating the market shares of stores based on the shopper's search and purchase behavior. (English summary) **2005k:90063**
Dockner, Engelbert J. (*with* Fruchter, Gila E.) Dynamic strategic pricing and speed of diffusion. (English summary) **2005g:90069**
Dou, Wenyu *see* **Fruchter, Gila E., 2005j:90036**

Du, Rong (*with* Hu, Qiying; Meng, Zhiqing) Modeling the dynamic optimal advertising in stochastic condition. (English summary)
Dulluri, Sandeep (*with* Srinivasa Raghavan, N. R.) Allocation of advertising space by a web service provider using combinatorial auctions. (English summary)
Favaretto, Daniela (*with* Viscolani, Bruno) A general model for the marketing of seasonal products. (English summary) **2005e:90053**
Freund, Ari (*with* Naor, Joseph) Approximating the advertisement placement problem. (English summary) (*see* **2005a:90006**)
Fruchter, Gila E. (*with* Dou, Wenyu) Optimal budget allocation over time for keyword ads in web portals. (English summary) **2005j:90036**
— *see also* **Dockner, Engelbert J.**, **2005g:90069**
Grosset, Luca (*with* Viscolani, Bruno) Advertising for a new product introduction: a stochastic approach. (English summary) **2005d:90062**
— (*with* Viscolani, Bruno) Advertising for the introduction of an age-sensitive product. (English summary) **2005m:90052**
Hu, Minan *see* **Xu, Jiuping**
Hu, Qiying *see* **Du, Rong et al.**
Jaskold Gabszewicz, Jean (*with* Laussel, Didier; Sonnac, Nathalie) Does advertising lower the price of newspapers to consumers? A theoretical appraisal. (English summary)
Krishnamoorthy, A. *see* **Bass, F. M. et al.**, **2005j:90035**
Lambertini, Luca Advertising in a dynamic spatial monopoly. (English summary) **2005k:90064**
Laussel, Didier *see* **Jaskold Gabszewicz, Jean et al.**
Meng, Zhiqing *see* **Du, Rong et al.**
Mosca, S. (*with* Viscolani, Bruno) Optimal goodwill path to introduce a new product. (English summary) **2005f:90059**
Naor, Joseph *see* **Freund, Ari**, (**2005a:90006**)
Piramuthu, Selwyn Knowledge-based framework for automated dynamic supply chain configuration. (English summary)
Prasad, Ashutosh *see* **Bass, F. M. et al.**, **2005j:90035**
Sethi, Suresh P. *see* **Bass, F. M. et al.**, **2005j:90035**
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Van den Poel, Dirk (*with* Buckinx, Wouter) Predicting online-purchasing behaviour. (English summary)
Viscolani, Bruno New product introduction: determining optimal advertising policies. (English summary)
— *see also* **Grosset, Luca**, **2005d:90062**; **2005m:90052**; **Favaretto, Daniela**, **2005e:90053** *and* **Mosca, S.**, **2005f:90059**
Viswanathan, Siva (*with* Anandalingam, G.) Pricing strategies for information goods. (English summary)
Williamson, David P. *see* **Chudak, Fabián A.**, **2005k:90062**
Xu, Jiuping (*with* Hu, Minan) Analysis of the mechanism models of technological innovation diffusion. (English summary)

Items with secondary classifications in 90B60

Aryanezhad, Mir. B. *see* **Sadjadi, Seyed J. et al.**
Bernstein, Fernando (*with* Federgruen, Awi) Dynamic inventory and pricing models for competing retailers. (English summary) **2005a:90010**
Chakravarty, Amiya K. Global plant capacity and product allocation with pricing decisions. (English summary)
Chhajed, Dilip *see* **Yalabik, Baris et al.**, **2005g:90068**
Colombo, Luca (*with* Lambertini, Luca) Dynamic advertising under vertical product differentiation. (English summary) **2005g:91046**
Dawande, Milind (*with* Kumar, Subodha; Sriskandarajah, Chelliah) Scheduling web advertisements: a note on the minspace problem. (English summary) **2005j:90023**
Dean, Brian C. (*with* Goemans, Michel X.) Improved approximation algorithms for minimum-space advertisement scheduling. (English summary) **2005c:68290**
Federgruen, Awi *see* **Bernstein, Fernando**, **2005a:90010**
Goemans, Michel X. *see* **Dean, Brian C.**, **2005c:68290**
Kumar, Subodha *see* **Dawande, Milind et al.**, **2005j:90023**
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Oroujee, Maryam *see* **Sadjadi, Seyed J. et al.**
Petruzzi, Nicholas C. *see* **Yalabik, Baris et al.**, **2005g:90068**
Reyes, Pedro M. A mathematical example of the two-echelon inventory model with asymmetric market information. (English summary)
Rocşoreanu, Carmen *see* **Sterpu, Mihaela**, **2005h:34106**
Sadjadi, Seyed J. (*with* Oroujee, Maryam; Aryanezhad, Mir. B.) Optimal production and marketing planning. (English summary)
Sakamaki, Yoshikazu Improvement proposal of consumer's choice behavior model with consideration set. (English summary) **2005j:91054**
Sriskandarajah, Chelliah *see* **Dawande, Milind et al.**, **2005j:90023**
Sterpu, Mihaela (*with* Rocşoreanu, Carmen) Hopf bifurcation in a system of two coupled advertising oscillators. (English summary) **2005h:34106**
Yalabik, Baris (*with* Petruzzi, Nicholas C.; Chhajed, Dilip) An integrated product returns model with logistics and marketing coordination. (English summary) **2005g:90068**
Zhang, Xiaolong Delayed demand information and dampened bullwhip effect. (English summary)

90B70 Theory of organizations, manpower planning [see also 91D35]

Cai, Xiao-Qiang (*with* Li, Yongjian; Tu, Fengsheng) Solving manpower planning problem with two types of jobs under uncertainty demand. (English summary)
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Kozera, Ryszard *see* **Mohamed, Khaireel A. et al.**, (**2005g:00014**)
Li, Yanzhi (*with* Lim, Andrew L. C.; Rodrigues, Brian) Manpower allocation with time windows and job-teaming constraints. (English summary)
Li, Yongjian *see* **Cai, Xiao-Qiang et al.**
Lim, Andrew L. C. *see* **Li, Yanzhi et al.**
Mohamed, Khaireel A. (*with* Datta, Amitava; Kozera, Ryszard) A knowledge-based technique for constraints satisfaction in manpower allocation. (English summary) (*see* **2005g:00014**)
Rodrigues, Brian *see* **Li, Yanzhi et al.**
Tu, Fengsheng *see* **Cai, Xiao-Qiang et al.**

Items with secondary classifications in 90B70

Arslan, Turan (*with* Khisty, C. Jotin) A rational reasoning method from fuzzy perceptions in route choice. (English summary)
Biskup, Dirk (*with* Simons, Dirk) Common due date scheduling with autonomous and induced learning. (English summary) **2005b:90039**
Diamantidis, A. C. (*with* Papadopoulos, C. T.) A dynamic programming algorithm for the buffer allocation problem in homogeneous asymptotically reliable serial production lines. (English summary)
Khisty, C. Jotin *see* **Arslan, Turan**
Papadopoulos, C. T. *see* **Diamantidis, A. C.**
Simons, Dirk *see* **Biskup, Dirk**, **2005b:90039**

90B80 Discrete location and assignment [see also 90C10]

Abdel-Malek, Layek L. (*with* Montanari, Roberto) On the multi-product newsboy problem with two constraints. (English summary)
Adil, Gajendra K. (*with* Ghosh, Jay B.) Maximum diversity/similarity models with extension to part grouping. (English summary)
Ageev, A. A. (*with* Ye, Yinyu; Zhang, Jiawei) Improved combinatorial approximation algorithms for the k-level facility location problem. (English summary) **2005c:90039**
Ahuja, Ravindra K. (*with* Liu, Jian; Orlin, James B.; Goodstein, Jon; Mukherjee, Amit) A neighborhood search algorithm for the combined through and fleet assignment model with time windows. (English summary)
Albareda-Sambola, Maria (*with* Díaz, Juan A.; Fernández Aréizaga, Elena) A compact model and tight bounds for a combined location-routing problem. (English summary)
Archer, Aaron (*with* Rajagopalan, Ranjithkumar; Shmoys, David B.) Lagrangian relaxation for the k-median problem: new insights and continuity properties. (English summary) **2005d:90063**
Armentano, Vinícius A. *see* **Berretta, Regina et al.**
Arya, Vijay (*with* Garg, Naveen; Khandekar, Rohit; Meyerson, Adam; Munagala, Kamesh; Pandit, Vinayaka) Local search heuristics for k-median and facility location problems. (English summary) **2005d:90064**
Barahona, Francisco (*with* Chudak, Fabián A.) Near-optimal solutions to large-scale facility location problems. (English summary) **2005j:90037**
Bar-Yehuda, Reuven (*with* Rawitz, Dror) Local ratio with negative weights. (English summary) **2005b:90060**
Berman, Oded (*with* Wang, Jiamin) Probabilistic location problems with discrete demand weights. (English summary) **2005b:90061**
— (*with* Drezner, Zvi; Wesolowsky, George O.) The facility and transfer points location problem. (English summary)
Berretta, Regina (*with* França, Paulo M.; Armentano, Vinícius A.) Metaheuristic approaches for the multilevel resource-constrained lot-sizing problem with setup and lead times. (English summary)
Billionnet, Alain (*with* Elloumi, Sourour; Grouz Djerbi, Leila) Designing radio-mobile access networks based on synchronous digital hierarchy rings. (English summary) **2005d:90065**
Bourjolly, Jean-Marie (*with* Rebetez, Vianney) An analysis of lower bound procedures for the bin packing problem. (English and French summaries) **2005h:90057**
Brimberg, Jack (*with* Salhi, Said) A continuous location-allocation problem with zone-dependent fixed cost. (English summary)
Burkard, Rainer E. (*with* Pleschiutschnig, Carmen; Zhang, Jian Zhong) Inverse median problems. (English summary) **2005h:90058**
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Dement′ev, V. T. (*with* Shamardin, Yu. V.) A two-level assignment problem with a generalized Monge condition. (Russian. Russian summary) **2005b:90105**
Deweß, G. Minimal curves with limited curvature in cases of cost depending on location. (English summary) **2005h:90146**
Duffuaa, Salih O. *see* **Fedjki, Chawki A., 2005a:90135**
Dupont, Audrey (*with* Alvernhe, Eric; Vasquez, Michel) Efficient filtering and Tabu search on a consistent neighbourhood for the frequency assignment problem with polarisation. (English summary)
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Epstein, Leah (*with* Tassa, Tamir) Vector assignment problems: a general framework. (English summary) (*see* **2005c:68002**)
— (*with* Seiden, Steven S.; van Stee, Rob) New bounds for variable-sized and resource augmented online bin packing. (English summary) (*see* **2005a:68008**)

Even, Guy (*with* Garg, Naveen; Könemann, Jochen; Ravi, Ramamoorthi; Sinha, Amitabh) Min-max tree covers of graphs. (English summary) **2005a:90167**
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— (*with* Meijer, Henk) The one-round Voronoi game replayed. (English summary) **2005g:68171**
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Fotakis, Dimitris A. (*with* Nikoletseas, Sotiris E.; Papadopoulou, Vicky G.; Spirakis, Paul G.) Radiocolorings in periodic planar graphs: PSPACE-completeness and efficient approximations for the optimal range of frequencies. (English summary) (*see* **2005a:68015**)
— On the competitive ratio for online facility location. (English summary) (*see* **2005b:68008**)
Frank, András On Kuhn's Hungarian method—a tribute from Hungary. (English summary)
Freund, Ari (*with* Naor, Joseph) Approximating the advertisement placement problem. (English summary) (*see* **2005a:90006**)
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Gamache, Michel (*with* Grimard, Renaud; Cohen, Paul) A shortest-path algorithm for solving the fleet management problem in underground mines. (English summary)
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Grundel, Don A. (*with* Oliveira, Carlos A. S.; Pardalos, Panos M.) Asymptotic properties of random multidimensional assignment problems. (English summary) **2005d:90096**
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Johnson, Michael P. (*with* Gorr, Wilpen L.; Roehrig, Stephen) Location of service facilities for the elderly. (English summary)
Jonard, Nicolas *see* **Jeunet, Jully, 2005h:90079**
Just, Winfried (*with* Della Vedova, Gianluca) Multiple sequence alignment as a facility-location problem. (English summary) **2005g:92027**
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Mahdian, Mohammad (*with* Ye, Yinyu; Zhang, Jiawei) Improved approximation algorithms for metric facility location problems. (English summary) (*see* **2005d:68005**)
— (*with* Ye, Yinyu; Zhang, Jiawei) A 2-approximation algorithm for the soft-capacitated facility location problem. (English summary) (*see* **2005b:68007**)
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Osman, M. S. (*with* Abo-Sinna, Mahmoud A.; Mousa, A. A.) A solution to the optimal power flow using genetic algorithm. (English summary) 2005c:90087
Ozmutlu, Seda (*with* Harmonosky, Catherine M.) A real-time methodology for minimizing mean flowtime in FMSs with routing flexibility: threshold-based alternate routing. (English summary)
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Rothblum, Uriel G. A comment on: F. K. Hwang, Y. M. Wang and J. S. Lee, "Sortability of multi-partitions" [J. Global Optim. **24** (2002), no. 4, 463–472; MR1943842 (2003k:90055)]. (English summary) **2005c:90076**
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Smith, J. MacGregor Dilemmas in factory design: paradox and paradigm. (English summary)
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Suzuki, Hideharu (*with* Ueno, Hidetoshi; Ishikawa, Norihiro; Takahashi, Osamu; Satoh, Fumiaki; Mizuno, Tadanori) Performance analysis of hybrid error recovery methods for reliable multicast in wireless networks. (Japanese. English and Japanese summaries)
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Yadav, Pradeep Kumar (*with* Kumar, Avanish; Singh, Mahi Pal) An algorithm for solving the unbalanced assignment problems. (English summary)
Yaman, Hande ★ Concentrator location in telecommunications networks. **2005g:90002**
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Ye, Deshi (*with* Zhang, Guochuan) On-line extensible bin packing with unequal bin sizes. (English summary) (*see* **2005c:68005**)
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Items listed otherwise than by author

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Porto ★ Metaheuristics: computer decision-making. **2005b:90007**

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Suárez-Vega, R. (*with* Santos-Peñate, D. R.; Dorta-González, P.) Discretization and resolution of the $(r|X_p)$-medianoid problem involving quality criteria. (English summary) **2005b:90066**
Trosset, Michael W. *see* **Dimnaku, Artan et al.**
Tsai, Jung-Fa (*with* Li, Han-Lin) Technical note—on optimization approach for multidisk vertical allocation problems. (English summary)
Wesolowsky, George O. *see* **Drezner, Zvi et al.**, 2005b:90065
Zabudskiĭ, G. G. An algorithm for solving a minimax problem of plant location on a plane with forbidden zones. (Russian. Russian summary) **2005e:90056**

Items with secondary classifications in 90B85

Alvoni, Elisabetta (*with* Papini, Pier Luigi) Existence of k-media and medians. (English summary) **2005g:46029**
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Chelidze, G. Inner product spaces and minimal values of functionals. (English summary) **2005f:46044**
El Houda Saadani, Nour (*with* Guinet, Alain; Moalla, Mohamed) A travelling salesman approach to solve the $F/\text{no-idle}/C_{\max}$ problem. (English summary) **2005f:90046**
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Janáček, Jaroslav (*with* Buzna, Ľuboš) A comparison continuous approximation with mathematical programming approach to location problems. (English summary)
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Lai, Kin Keung (*with* Ng, Wan-Lung) A stochastic approach to hotel revenue optimization. (English summary)
Laita, Luis M. *see* **Roanes-Lozano, Eugenio et al.**
McLay, Laura A. *see* **Jacobson, Sheldon H. et al.**, 2005g:90073
Mehrotra, Anuj (*with* Shantz, Joseph; Trick, Michael A.) Determining newspaper marketing zones using contiguous clustering. (English summary) **2005g:90075**

Mellentien, Christoph (*with* Schwindt, Christoph; Trautmann, Norbert) Scheduling the - factory pick-up of new cars. (English summary)
Narayanaswamy, Swetha (*with* Kawadia, Vikas; Sreenivas, R. S.; Kumar, Panganamala Ramana) Power control in ad hoc wireless networks: an architectural solution for a melee of multiple agents, cost criteria, and information patterns. (English summary) (*see* **2005a:00024**)
Ng, Wan-Lung *see* **Lai, Kin Keung**
Radons, Günter *see* **Dunker, Thomas et al.**
Roanes-Lozano, Eugenio (*with* Laita, Luis M.; Roanes-Macías, Eugenio) An accelerated-time simulation of departing passengers' flow in airport terminals. (English summary)
Roanes-Macías, Eugenio *see* **Roanes-Lozano, Eugenio et al.**
Roche, Edward *see* **Xiao, Baichun et al.**
Roehrig, Stephen *see* **Johnson, Michael P. et al.**
Roljić, Lazo An expert system for national economy model simulations. (English summary)
Schwindt, Christoph *see* **Mellentien, Christoph et al.**
Shantz, Joseph *see* **Mehrotra, Anuj et al., 2005g:90075**
Smith, David K.[1] Decision making and card collecting. (English summary)
Sreenivas, R. S. *see* **Narayanaswamy, Swetha et al., (2005a:00024)**
Stegeman, A. W. *see* **Klein Haneveld, W. K.**
Trautmann, Norbert *see* **Mellentien, Christoph et al.**
Trick, Michael A. *see* **Mehrotra, Anuj et al., 2005g:90075**
Vanden Berghe, Greet *see* **Burke, Edmund K. et al.**
Van Landeghem, Hendrik *see* **Burke, Edmund K. et al.**
Westkämper, Engelbert *see* **Dunker, Thomas et al.**
Xiao, Baichun (*with* Feng, Youyi; Roche, Edward) Uncertain switching costs and purchase decisions in electronic markets. (English summary)
Xiong, Guangyu (*with* Koivisto, Hannu) Research on fuzzy inventory control under supply chain management environment. (English summary) (*see* **2005c:00015**)
Zelle, Christian (*with* Burkard, Rainer E.) The reel and sheet cutting problem in paper industry. (English summary) **2005m:90057**

Items with secondary classifications in 90B90

Abbas-Turki, A. (*with* Bouyekhf, R.; Grunder, O.; El Moudni, A.) On the line planning problems of the hub public-transportation networks. (English summary)
Abdel-Malek, Layek L. (*with* Montanari, Roberto) On the multi-product newsboy problem with two constraints. (English summary)
Abo-Sinna, Mahmoud A. *see* **Osman, M. S. et al.**
Albarracín, José Miguel *see* **Andrés, Carlos et al.**
Al-Mutairi, Dhaifalla K. (*with* Soland, Richard M.) Attrition through a partially coordinated area defense. (English summary) **2005g:90010**
Andrés, Carlos (*with* Albarracín, José Miguel; Tormo, Guillermina; Vicens, Eduardo; García-Sabater, José Pedro) Group technology in a hybrid flowshop environment: A case study. (English summary)
Arenas Parra, M. Mar *see* **Jiménez, Mariano et al.**
Artigues, Christian *see* **Demassey, Sophie et al.**
Asef-Vaziri, Ardavan (*with* Laporte, Gilbert) Loop based facility planning and material handling. (English summary)
(Audet, Charles) *see* **Special Issue: Surrogate optimization**
Babich, O. A. (*with* Pershin, O. Yu.; Mushtonin, A. V.) A method for the design of a hierarchical network of field pipelines, based on the solution of a sequence of extremal problems. (Russian. Russian summary) **2005d:90011**
Bagirov, A. M. (*with* Churilov, Leonid) An optimization-based approach to patient grouping for acute healthcare in Australia. (English summary) (*see* **2005g:00014**)
Benoist, Thierry (*with* Rottembourg, Benoît) Upper bounds for revenue maximization in a satellite scheduling problem. (English summary) **2005h:90177**
Bhuiyan, Nadia *see* **Shuiabi, Eyas et al.**
Bilbao Terol, Amelia *see* **Jiménez, Mariano et al.**
Bogdanowicz, Z. (*with* Datta, Somdip) Analysis of backup route reoptimization algorithms for optical shared mesh networks. (English summary)
Bouffard, François (*with* Galiana, Francisco D.) Generalized uplifts in pool-based electricity markets. (English summary)
Bouyekhf, R. *see* **Abbas-Turki, A. et al.**
Caldwell, James (*with* Ng, Douglas K. S.) ★ Mathematical modelling. **2005a:93002**
Carlyle, W. Matthew *see* **Perez, Imelda C. et al., 2005d:90055**
Chardaire, P. (*with* McKeown, G. P.; Verity-Harrison, S. A.; Richardson, S. B.) Solving a time-space network formulation for the Convoy movement problem. (English summary)
Chaudhuri, K. S. *see* **Giri, Bibhas Chandra et al.**
Chen, Frank Y. (*with* Wang, Tong[1]; Xu, Tommy Z.) Integrated inventory replenishment and temporal shipment consolidation: a comparison of quantity-based and time-based models. (English summary)
Chen, Huo Wang *see* **Sun, Xingming et al., 2005f:90036**
Chen, Yen-Liang *see* **Yang, Hsu-Hao, 2005h:90013**
Cheung, K. W. (*with* So, Hing Cheung) A multidimensional scaling framework for mobile location using time-of-arrival measurements. (English summary)
Chiu, Yung-Ho (*with* Shen, Da-Bai; Ma, Chun-Mei) Small business lending and bank cost efficiency. (English summary)
Chuang, Chung-Chu (*with* Chuang, Shuo-Li) The impacts of warrants issuance on the price and trading volumes of the underlying stock: the call warrants case of Taiwan stock exchange. (English summary)
Chuang, Shuo-Li *see* **Chuang, Chung-Chu**
Churilov, Leonid *see* **Bagirov, A. M., (2005g:00014)**
Cordeau, Jean-François *see* **Mercier, Anne et al.**
Dasci, Abdullah (*with* Laporte, Gilbert) A continuous model for multistore competitive location. (English summary)
Datta, Amitava *see* **Mohamed, Khaireel A. et al., (2005g:00014)**
Datta, Somdip *see* **Bogdanowicz, Z.**
Demassey, Sophie (*with* Artigues, Christian; Michelon, Philippe) Constraint-propagation-based cutting planes: an application to the resource-constrained project scheduling problem. (English summary)
(Dennis, John E., Jr.) *see* **Special Issue: Surrogate optimization**
El Moudni, A. *see* **Abbas-Turki, A. et al.**
Faaland, Bruce *see* **Schmitt, Thomas[3], 2005e:90043**
Feng, En Min *see* **Hu, Jian-Guo et al.**
Fowler, John W. *see* **Perez, Imelda C. et al., 2005d:90055**
Fremuth-Paeger, Christian (*with* Hefele, Andreas; Jungnickel, Dieter; Leclerc, Matthias) MIP optimization of the lithium logistics problem. (English summary)
Fu, Yong[1] (*with* Li, Zuyi; Shahidehpour, S. M.) Profit-based generation resource planning. (English summary)
Galiana, Francisco D. *see* **Bouffard, François**
Ganas, Ioannis (*with* Papachristos, Sotirios) The single-product lot-sizing problem with constant parameters and backlogging: exact results, a new solution, and all parameter stability regions. (English summary)
García-Sabater, José Pedro *see* **Andrés, Carlos et al.**
Gershwin, Stanley B. *see* **Kim, Jongyoon**
Giri, Bibhas Chandra (*with* Jalan, A. K.; Chaudhuri, K. S.) An economic production lot size model with increasing demand, shortages and partial backlogging. (English summary)
González, Paula (*with* Herrero, Carmen) Optimal sharing of surgical costs in the presence of queues. (English summary) **2005d:90032**
Grosfeld-Nir, Abraham A two-bottleneck system with binomial yields and rigid demand. (English summary)
Grunder, O. *see* **Abbas-Turki, A. et al.**
Guo, Hua *see* **Hu, Jian-Guo et al.**
Hefele, Andreas *see* **Fremuth-Paeger, Christian et al.**
Herrero, Carmen *see* **González, Paula, 2005d:90032**
Hu, Jian-Guo (*with* Feng, En Min; Guo, Hua) A coordinated policy model in distribution system with stochastic demand. (English summary)
Iskandar, B. P. (*with* Murthy, D. N. P.; Jack, N.) A new repair-replace strategy for items sold with a two-dimensional warranty. (English summary)
Ivanov, D. V. (*with* Karaulova, I. V.; Markova, E. V.; Trufanov, V. V.; Khamisov, O. V.) Numerical solutions of the problem of the management of the development of an electrical power system. (Russian. Russian summary)
Jack, N. *see* **Iskandar, B. P. et al.**
Jalan, A. K. *see* **Giri, Bibhas Chandra et al.**
Jane, Chin-Chia (*with* Laih, Yih-Wenn) A clustering algorithm for item assignment in a synchronized zone order picking system. (English summary)
Jaskold Gabszewicz, Jean (*with* Laussel, Didier; Sonnac, Nathalie) Does advertising lower the price of newspapers to consumers? A theoretical appraisal. (English summary)
Jiang, Ming Hui[2] UPS-k: a set partitioning problem with applications in UPS pickup-delivery system.
Jiménez, Mariano (*with* Arenas Parra, M. Mar; Bilbao Terol, Amelia; Rodríguez-Uría, M. Victoria) Approximate resolution of an imprecise goal programming model with nonlinear membership functions. (English summary)
Jin, Ji Ling *see* **Liu, Quan Li et al.**
Jin, Xinhai *see* **Sun, Xingming et al., 2005f:90036**
Jungnickel, Dieter *see* **Fremuth-Paeger, Christian et al.**
Karaulova, I. V. *see* **Ivanov, D. V. et al.**
Khamisov, O. V. *see* **Ivanov, D. V. et al.**
Kim, Jongyoon (*with* Gershwin, Stanley B.) Integrated quality and quantity modeling of a production line. (English summary)
Kiranoudis, C. T. *see* **Petinis, V. V. et al.**
Kozera, Ryszard *see* **Mohamed, Khaireel A. et al., (2005g:00014)**
Kyriakidis, E. G. Optimal control of a simple immigration-emigration process through total catastrophes. (English summary) **2005a:90176**
Lai, Kin Keung *see* **Mak, K. L. et al., 2005k:90006**
Laih, Yih-Wenn *see* **Jane, Chin-Chia**
Laporte, Gilbert *see* **Asef-Vaziri, Ardavan** *and* **Dasci, Abdullah**
Laussel, Didier *see* **Jaskold Gabszewicz, Jean et al.**
Leclerc, Matthias *see* **Fremuth-Paeger, Christian et al.**
Li, Changyun *see* **Sun, Xingming et al., 2005f:90036**
Li, Ning *see* **Liu, Quan Li et al.**
Li, Zuyi *see* **Fu, Yong**[1] **et al.**
Lindahl, Paul A. *see* **Morgan, Jeffrey J. et al.**
Liu, Quan Li (*with* Wang, Wei[5]; Zhu, Rui Jun[2]; Li, Ning; Jin, Ji Ling) Optimal scheduling method and its application for a bell-type batch annealing. (Chinese. English and Chinese summaries)
Ma, Chun-Mei *see* **Chiu, Yung-Ho et al.**
Mak, K. L. (*with* Lai, Kin Keung; Ng, Jonathan Wing-Cheong; Yiu, K. F. C.) Analysis of optimal opportunistic replenishment policies for inventory systems by using a (s, S) model with a maximum issue quantity restriction. (English summary) **2005k:90006**
Markova, E. V. *see* **Ivanov, D. V. et al.**
Matsui, Tomomi *see* **Miyashiro, Ryuhei, 2005h:90046**
McKeown, G. P. *see* **Chardaire, P. et al.**
Mercier, Anne (*with* Cordeau, Jean-François; Soumis, François) A computational study of Benders decomposition for the integrated aircraft routing and crew scheduling problem. (English summary)
Michelon, Philippe *see* **Demassey, Sophie et al.**
Miyashiro, Ryuhei (*with* Matsui, Tomomi) A polynomial-time algorithm to find an equitable home-away assignment. (English summary) **2005h:90046**
Mohamed, Khaireel A. (*with* Datta, Amitava; Kozera, Ryszard) A knowledge-based technique for constraints satisfaction in manpower allocation. (English summary) (*see* **2005g:00014**)
Montanari, Roberto *see* **Abdel-Malek, Layek L.**
Moon, Hyungsik Roger (*with* Perron, Benoit) Efficient estimation of the seemingly unrelated regression cointegration model and testing for purchasing power parity. (English summary)
Morgan, Jeffrey J. (*with* Surovtsev, Ivan V.; Lindahl, Paul A.) A framework for whole-cell mathematical modeling. (English summary)
Mousa, A. A. *see* **Osman, M. S. et al.**
Murthy, D. N. P. *see* **Iskandar, B. P. et al.**

Mushtonin, A. V. *see* **Babich, O. A. et al., 2005d:90011**
Ng, Douglas K. S. *see* **Caldwell, James, 2005a:93002**
Ng, Jonathan Wing-Cheong *see* **Mak, K. L. et al., 2005k:90006**
Osman, M. S. (*with* Abo-Sinna, Mahmoud A.; Mousa, A. A.) An effective genetic algorithm approach to multiobjective resource allocation problems (MORAPs). (English summary)
Pais Antunes, António *see* **Teixeira, João et al., 2005a:90016**
Papachristos, Sotirios *see* **Ganas, Ioannis**
Perez, Imelda C. (*with* Fowler, John W.; Carlyle, W. Matthew) Minimizing total weighted tardiness on a single batch process machine with incompatible job families. (English summary) **2005d:90055**
Perron, Benoit *see* **Moon, Hyungsik Roger**
Pershin, O. Yu. *see* **Babich, O. A. et al., 2005d:90011**
Petinis, V. V. (*with* Tarantilis, C. D.; Kiranoudis, C. T.) Warehouse sizing and inventory scheduling for multiple stock-keeping products. (English summary)
Piramuthu, Selwyn Knowledge-based framework for automated dynamic supply chain configuration. (English summary)
Rabinowitz, Gad *see* **Samaddar, Subhashish et al.**
Richardson, S. B. *see* **Chardaire, P. et al.**
Rodríguez-Uría, M. Victoria *see* **Jiménez, Mariano et al.**
Rottembourg, Benoît *see* **Benoist, Thierry, 2005h:90177**
Samaddar, Subhashish (*with* Rabinowitz, Gad; Zhang, Guoqiang Peter) An experimental analysis of solution performance in a resource sharing and scheduling problem. (English summary)
Schmitt, Thomas[3] (*with* Faaland, Bruce) Scheduling recurrent construction. (English summary) **2005e:90043**
Sethi, Suresh P. (*with* Yan, Houmin; Zhang, Han Qin) Analysis of a duopoly supply chain and its application in electricity spot markets. (English summary)
Shahidehpour, S. M. *see* **Fu, Yong[1] et al.**
Shen, Da-Bai *see* **Chiu, Yung-Ho et al.**
Shuiabi, Eyas (*with* Thomson, Vince; Bhuiyan, Nadia) Entropy as a measure of operational flexibility. (English summary)
So, Hing Cheung *see* **Cheung, K. W.**
Soland, Richard M. *see* **Al-Mutairi, Dhaifalla K., 2005g:90010**
Sonnac, Nathalie *see* **Jaskold Gabszewicz, Jean et al.**
Soumis, François *see* **Mercier, Anne et al.**
Sourd, Francis Earliness-tardiness scheduling with setup considerations. (English summary) **2005i:90025**
de Sousa, Jorge Pinho *see* **Teixeira, João et al., 2005a:90016**
Sun, Xingming (*with* Chen, Huo Wang; Yin, Jianping; Jin, Xinhai; Yang, Aiming; Li, Changyun) On construction sequence optimization of cascaded hydroelectric stations. (English summary) **2005f:90036**
Surovtsev, Ivan V. *see* **Morgan, Jeffrey J. et al.**
Tarantilis, C. D. *see* **Petinis, V. V. et al.**
Teixeira, João (*with* Pais Antunes, António; de Sousa, Jorge Pinho) Recyclable waste collection planning—a case study. (English summary) **2005a:90016**
Thomson, Vince *see* **Shuiabi, Eyas et al.**
Tormo, Guillermina *see* **Andrés, Carlos et al.**
Trufanov, V. V. *see* **Ivanov, D. V. et al.**
Verity-Harrison, S. A. *see* **Chardaire, P. et al.**
Vicens, Eduardo *see* **Andrés, Carlos et al.**
(Vicente, Luís N.) *see* **Special Issue: Surrogate optimization**
Wang, Tong[1] *see* **Chen, Frank Y. et al.**
Wang, Wei[5] *see* **Liu, Quan Li et al.**
Wright, Michael Bruce Scheduling fixtures for New Zealand Cricket. (English summary)
Xu, Tommy Z. *see* **Chen, Frank Y. et al.**
Yan, Houmin *see* **Sethi, Suresh P. et al.**
Yang, Aiming *see* **Sun, Xingming et al., 2005f:90036**
Yang, Hsu-Hao (*with* Chen, Yen-Liang) The first K shortest unique-arc walks in a traffic-light network. (English summary) **2005h:90013**
Yin, Jianping *see* **Sun, Xingming et al., 2005f:90036**
Yiu, K. F. C. *see* **Mak, K. L. et al., 2005k:90006**
Zhang, Guoqiang Peter *see* **Samaddar, Subhashish et al.**
Zhang, Han Qin *see* **Sethi, Suresh P. et al.**
Zhu, Rui Jun[2] *see* **Liu, Quan Li et al.**

Items listed otherwise than by author

Special Issue:
Surrogate optimization ★ Special issue on surrogate optimization.

90B99 None of the above, but in this section

Items with secondary classifications in 90B99

Kostreva, Michael M. (*with* Ogryczak, Włodzimierz; Wierzbicki, Adam) Equitable aggregations and multiple criteria analysis. (English summary) **2005b:90113**
Ogryczak, Włodzimierz *see* **Kostreva, Michael M. et al., 2005b:90113**
Wierzbicki, Adam *see* **Kostreva, Michael M. et al., 2005b:90113**

90Cxx Mathematical programming [see also 49Mxx, 65Kxx]

Items with secondary classifications in 90Cxx

(Ahr, Dino) *see* **Proceedings: Operations Research, 2003, 2005d:90005**
(Fahrion, R.) *see* **Proceedings: Operations Research, 2003, 2005d:90005**
Ferris, Michael C. (*with* Solodov, Mikhail) Foreword: Special issue for the 70th birthday of Professor Olvi Mangasarian.
(Hoşten, Serkan) *see* **Trends in optimization, 2005f:90006**
Jongen, Hubertus Th. (*with* Meer, Klaus; Triesch, Eberhard) ★ Optimization theory. **2005b:90001**
Jussien, Narendra (*with* Laburthe, François) Foreword [Hybrid optimization techniques].
Laburthe, François *see* **Jussien, Narendra**
Lange, Kenneth ★ Optimization. **2005b:90002**
(Lee, Jon[2]) *see* **Trends in optimization, 2005f:90006**
(Mangasarian, O. L.) *see* **Ferris, Michael C.**
Meer, Klaus *see* **Jongen, Hubertus Th. et al., 2005b:90001**
(Oswald, Marcus) *see* **Proceedings: Operations Research, 2003, 2005d:90005**
(Reinelt, Gerhard) *see* **Proceedings: Operations Research, 2003, 2005d:90005**
Solodov, Mikhail *see* **Ferris, Michael C.**
(Thomas, Rekha R.) *see* **Trends in optimization, 2005f:90006**
Triesch, Eberhard *see* **Jongen, Hubertus Th. et al., 2005b:90001**

Items listed otherwise than by author

Heidelberg ★ Operations Research Proceedings 2003. **2005d:90005**
Phoenix, AZ ★ Trends in optimization. **2005f:90006**
Proceedings of Symposia in Applied Mathematics ★ Trends in optimization. **2005f:90006**
Proceedings:
Operations Research, 2003 ★ Operations Research Proceedings 2003. **2005d:90005**
Trends in optimization ★ Trends in optimization. **2005f:90006**

90C05 Linear programming

Ahmed, Shabbir[1] (*with* Guan, Yongpei) The inverse optimal value problem. (English summary) **2005m:90058**
Ai, Wen-bao An optimal method for adjusting the centering parameter in the wide-neighborhood primal-dual interior-point algorithm for linear programming. (English summary) **2005b:90067**
— Neighborhood-following algorithms for linear programming. (English summary) **2005k:90068**
Astaf'ev, N. N. Dual regularization, marginal (repeated) values of the linear programming problem. (Russian. Russian summary) **2005f:90062**
Bai, Yan Qin (*with* Roos, Cornelis) A polynomial-time algorithm for linear optimization based on a new simple kernel function. (English summary) **2005a:90091**
— (*with* El Ghami, M.; Roos, Cornelis) A comparative study of kernel functions for primal-dual interior-point algorithms in linear optimization. (English summary) **2005h:90065**
Barbolīna, T. M. *see* **Emets, O. A., 2005e:90059**
Barnes, Earl R. (*with* Moretti, Antonio Carlos) Some results on centers of polytopes. (English summary) **2005k:90069**
Berdnikova, E. A. (*with* Eremin, I. I.; Popov, L. D.) Distributed Fejér processes for systems of linear inequalities and linear programming problems. (Russian. Russian summary) **2005d:90073**
Bereznev, V. A. On the polynomial complexity of a modified simplex method. (Russian. Russian summary) **2005j:90042**
Bertsimas, Dimitris (*with* Sim, Melvyn) The price of robustness. (English summary) **2005a:90092**
— (*with* Pachamanova, Dessislava; Sim, Melvyn) Robust linear optimization under general norms. (English summary) **2005e:90057**
Brandyberry, Alan A. *see* **Troutt, Marvin D. et al., 2005e:90063**
Brunetti, Sara (*with* Daurat, Alain) Stability in discrete tomography: some positive results. (English summary) **2005j:90043**
Cardia, Marli *see* **Gonzaga, Clóvis C., 2005c:90044**
Castañeda R., Cuauhtémoc H. *see* **Santiago-Alvarado, A. et al., 2005g:90080**
Chen, Hua Fu *see* **Niu, Hai**
Chen, Le Xiang *see* **Ye, Bing Ru et al.**
Cheung, Dennis (*with* Cucker, Felipe; Ye, Yinyu) Linear programming and condition numbers under the real number computation model. **2005f:90063**
— (*with* Cucker, Felipe) Solving linear programs with finite precision. I. Condition numbers and random programs. (English summary) **2005e:90058**
Cucker, Felipe *see* **Cheung, Dennis et al., 2005e:90058** *and* **2005f:90063**
Daurat, Alain *see* **Brunetti, Sara, 2005j:90043**
Dong, Jian Min *see* **Xing, Zhi Dong et al., 2005a:90097**
Dong, Zeng Chuan *see* **Ye, Bing Ru et al.**
Dunagan, John (*with* Vempala, Santosh S.) A simple polynomial-time rescaling algorithm for solving linear programs. (English summary) (*see* **2005i:68005**)
Ekoko, P. O. An algorithm for evaluating continuous changes in right-hand side (r.h.s.) values of LP problem. (English summary)
Elber, Ron *see* **Wagner, Michael et al.**
El Ghami, M. *see* **Bai, Yan Qin et al., 2005h:90065**
Emets, O. A. (*with* Barbolīna, T. M.) Solution of linear optimization problems on arrangements by the cut-off method. (Russian. English and Ukrainian summaries) **2005e:90059**
Eremin, I. I. *see* **Berdnikova, E. A. et al., 2005d:90073**
Eshaghi Gordji, M. *see* **Seresht, M. Zahedi**
Estévez-Fernández, A. (*with* Fiestras-Janeiro, M. G.) On properties of several refinements of optimal solutions in linear programming. (English summary) **2005m:90059**
Evtushenko, Yurīĭ Gavrilovich *see* **Golikov, A. I., 2005d:90074** *and* **2005i:90031**
Fei, Pu Sheng *see* **Yan, Zi Zong, 2005k:90072**
Fiestras-Janeiro, M. G. *see* **Estévez-Fernández, A., 2005m:90059**
Fourer, Robert (*with* Lopes, Leo; Martin, Richard Kipp) LPFML: a W3C XML schema for linear and integer programming. (English summary) **2005k:90070**
Golikov, A. I. (*with* Evtushenko, Yurīĭ Gavrilovich) Two parametric families of LP problems and their applications. (English summary) **2005d:90074**
— (*with* Evtushenko, Yurīĭ Gavrilovich) A method for solving large-scale linear programming problems. (Russian) **2005i:90031**
Gonzaga, Clóvis C. (*with* Cardia, Marli) Properties of the central points in linear programming problems. (English summary) **2005c:90044**
Guan, Yongpei *see* **Ahmed, Shabbir[1], 2005m:90058**

Guerrero-García, Pablo (*with* Santos-Palomo, Ángel) Phase I cycling under the most-obtuse-angle pivot rule. (English summary) **2005m:90060**

Hall, J. A. J. (*with* McKinnon, K. I. M.) The simplest examples where the simplex method cycles and conditions where EXPAND fails to prevent cycling. (English summary) **2005e:90060**

Hasfura-Buenaga, Julio-Roberto (*with* Holder, Allen; Stuart, Jeffrey) The asymptotic optimal partition and extensions of the nonsubstitution theorem. (English summary) **2005g:90076**

Helmes, Kurt Computing optimal selling rules for stocks using linear programming. (English summary) **2005m:90061**

Holder, Allen *see* **Hasfura-Buenaga, Julio-Roberto et al., 2005g:90076**

Huang, Chong Chao *see* **Jiang, Yan et al., 2005f:90064**

Idriss, Ismail I. (*with* Walter, Wolfgang V.) Validated infeasible interior-point predictor-corrector methods for linear programming. (English summary)

Jansson, Christian Rigorous lower and upper bounds in linear programming. (English summary) **2005e:90061**

Jiang, Yan (*with* Huang, Chong Chao; Yu, Qian) An inexact infeasible-interior-point algorithm for box linear programming problems. (Chinese. English and Chinese summaries) **2005f:90064**

Jovanović, Zoran *see* **Stanimirović, Predrag S. et al., 2005g:90081**

Junior, Hélcio Vieira (*with* Lins, Marcos Pereira Estellita) An improved initial basis for the Simplex algorithm. (English summary) **2005i:90032**

Khachaĭ, M. Yu. *see* **Mazurov, Vl. D.**

Kim, Woo-Je *see* **Park, Chan-Kyoo et al., 2005h:90066**

Kobylkin, K. S. A two-dimensional representation of three-dimensional systems of homogeneous linear inequalities. (Russian. Russian summary) **2005e:90062**

Kou, Gang (*with* Peng, Yi[2]; Shi, Yong[1]; Xu, Weixuan) A set of data mining models to classify credit cardholder behavior. (English summary) (*see* **2005c:00015**)

Kovács, Márta *see* **Szabó, Zsuzsanna**

Krarup, Jakob (*with* Nordlund Rørbech, Malene) LP formulations of the shortest path tree problem. (English summary) **2005j:90044**

Kuno, Takahito (*with* Shi, Jianming) Linear programs with an additional separable concave constraint. (English summary) **2005c:90045**

Lee, Sangwook *see* **Park, Chan-Kyoo et al., 2005h:90066**

Li, Chang Hong *see* **Ma, Xiao Yan**

Li, Wei[14] A note on two direct methods in linear programming. (English summary) **2005b:90068**

— Bound constraints simplex method with deficient basis. (English and Chinese summaries)

Lim, Sungmook (*with* Park, Soondal) A new admissible pivot method for linear programming. (English summary) **2005j:90045**

Lins, Marcos Pereira Estellita *see* **Junior, Hélcio Vieira, 2005i:90032**

Lopes, Leo *see* **Fourer, Robert et al., 2005k:90070**

Lopez-Benitez, Noé *see* **Tarek, Ahmed, 2005d:90075**

Lu, Jie[2] *see* **Shi, Chenggen et al.**

Ma, Xiao Yan (*with* Li, Chang Hong) On a logarithmic least absolute deviation priority method in AHP. (Chinese. English and Chinese summaries)

Mangasarian, O. L. A Newton method for linear programming. (English summary) **2005a:90093**

— Support vector machine classification via parameterless robust linear programming. (English summary) **2005k:90071**

Mansini, Renata (*with* Ogryczak, Włodzimierz; Speranza, Maria Grazia) LP solvable models for portfolio optimization: a classification and computational comparison. (English summary) **2005a:90094**

Maros, István A generalized dual phase-2 simplex algorithm. (English summary) **2005a:90095**

Marsh, M. M. A note on generalized Farkas alternatives. (English summary) **2005g:90077**

Martin, Richard Kipp *see* **Fourer, Robert et al., 2005k:90070**

Mazurov, Vl. D. (*with* Khachaĭ, M. Yu.) Committees of systems of linear inequalities. (Russian. Russian summary)

McKinnon, K. I. M. *see* **Hall, J. A. J., 2005e:90060**

Meller, Jarosław *see* **Wagner, Michael et al.**

Momčilović, Branimir *see* **Stanimirović, Predrag S. et al., 2005g:90081**

Moretti, Antonio Carlos *see* **Barnes, Earl R., 2005k:90069**

Ng, Kung Fu *see* **Zheng, Xi Yin, 2005i:90033**

Niu, Hai (*with* Chen, Hua Fu) A generalized gradient projection method for linear programming. (Chinese. English and Chinese summaries)

Nivón-Santiago, R. *see* **Santiago-Alvarado, A. et al., 2005g:90080**

Nordlund Rørbech, Malene *see* **Krarup, Jakob, 2005j:90044**

Ogryczak, Włodzimierz *see* **Mansini, Renata et al., 2005a:90094**

Pachamanova, Dessislava *see* **Bertsimas, Dimitris et al., 2005e:90057**

Pan, Ping-Qi A dual projective pivot algorithm for linear programming. (English summary) **2005g:90078**

Park, Chan-Kyoo (*with* Kim, Woo-Je; Lee, Sangwook; Park, Soondal) Positive sensitivity analysis in linear programming. (English summary) **2005h:90066**

Park, Soondal *see* **Park, Chan-Kyoo et al., 2005h:90066** *and* **Lim, Sungmook, 2005j:90045**

Peng, Yi[2] *see* **Kou, Gang et al., (2005c:00015)**

Petković, Marko D. *see* **Stojković, Nebojša V. et al.**

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Popoviciu, Ioan Optimization algorithm for finding solutions in linear programming problems. (English summary)

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Roos, Cornelis *see* **Bai, Yan Qin et al., 2005a:90091** *and* **2005h:90065**

Salahi, Maziar (*with* Terlaky, Tamás) An adaptive self-regular proximity based large-update IPM for LO. (English summary) **2005m:90062**

Santiago-Alvarado, A. (*with* Vázquez-Montiel, S.; Nivón-Santiago, R.; Castañeda R., Cuauhtémoc H.) Using linear programming to determine the geometric parameters of convex conical surfaces. (Spanish. English and Spanish summaries) **2005g:90080**

Santos-Palomo, Ángel The sagitta method for solving linear programs. (English summary) **2005c:90046**

— *see also* **Guerrero-García, Pablo, 2005m:90060**

Serafini, Paolo Linear programming with variable matrix entries. (English summary) **2005f:90065**

Seresht, M. Zahedi (*with* Eshaghi Gordji, M.) Matrix ratio test for finding basic feasible solution without artificial variable(s) in LP problems. (English summary)

— (*with* Eshaghi Gordji, M.) Big matrix method for finding the unboundedness of one of the primal or dual feasible region in LP problems. (English summary)

Sewisy, Adel A. Parallel coordinates: a tool for visualizing N-variable linear programming problems. (English summary)

Shi, Chenggen (*with* Lu, Jie[2]; Zhang, Guang-Quan) An extended K th-best approach for linear bilevel programming. (English summary)

Shi, Jianming *see* **Kuno, Takahito, 2005c:90045**

Shi, Yong[1] *see* **Kou, Gang et al., (2005c:00015)**

Sim, Melvyn *see* **Bertsimas, Dimitris et al., 2005a:90092** *and* **2005e:90057**

Sohn, Changsoo *see* **Troutt, Marvin D. et al., 2005e:90063**

Speranza, Maria Grazia *see* **Mansini, Renata et al., 2005a:90094**

Spielman, Daniel A. (*with* Teng, Shang-Hua) Smoothed analysis of termination of linear programming algorithms. (English summary) **2005b:90069**

Stanimirović, Predrag S. (*with* Stojković, Nebojša V.; Momčilović, Branimir; Jovanović, Zoran) Augmented and normal equations system in Mehrotra's primal-dual algorithm. (English summary) **2005g:90081**

Stojković, Nebojša V. (*with* Stranimirović, Predrag S.; Petković, Marko D.) Several modifications of simplex method. (English summary)

— *see also* **Stanimirović, Predrag S. et al., 2005g:90081**

Stranimirović, Predrag S. *see* **Stojković, Nebojša V. et al.**

Stuart, Jeffrey *see* **Hasfura-Buenaga, Julio-Roberto et al., 2005g:90076**

Subramani, K. An analysis of quantified linear programs. (English summary) **2005a:90096**

Szabó, Zsuzsanna (*with* Kovács, Márta) On interior-point methods and simplex method in linear programming. (English summary)

Tadisina, Suresh K. *see* **Troutt, Marvin D. et al., 2005e:90063**

Tarek, Ahmed (*with* Lopez-Benitez, Noé) Optimal legal firing sequence of Petri nets using linear programming. (English summary) **2005d:90075**

Teng, Shang-Hua *see* **Spielman, Daniel A., 2005b:90069**

Terlaky, Tamás *see* **Salahi, Maziar, 2005m:90062**

Troutt, Marvin D. (*with* Tadisina, Suresh K.; Sohn, Changsoo; Brandyberry, Alan A.) Linear programming system identification. (English summary) **2005e:90063**

Tverdokhlib, I. P. (*with* Prikarpat·s'kiĭ, O. A.) Dynamical system approach to solving linear programming problems and applications in economics modelling. (English and Ukrainian summaries) **2005e:90064**

Ůbi, Evald Exact and stable least squares solution to the linear programming problem. (English summary) **2005m:90063**

Vasiliu, Paul Perturbing the vectors b and c in a linear programming problem. (Romanian. Romanian summary)

Vázquez-Montiel, S. *see* **Santiago-Alvarado, A. et al., 2005g:90080**

Vempala, Santosh S. *see* **Dunagan, John, (2005i:68005)**

Wagner, Michael (*with* Meller, Jarosław; Elber, Ron) Large-scale linear programming techniques for the design of protein folding potentials. (English summary)

Walter, Wolfgang V. *see* **Idriss, Ismail I.**

Wang, Ruo Peng *see* **Xing, Zhi Dong et al., 2005a:90097**

Wang, Yu Qing Critical interval method for solving linear programming problems. (Chinese. English and Chinese summaries)

Weber, Christian E. More on complementarity and substitutability in the transshipment problem. (English summary) **2005b:90070**

Wen, C. F. (*with* Wu, Soon-Yi) Duality theorems and algorithms for linear programming in measure spaces. (English summary) **2005h:90067**

Wu, Soon-Yi *see* **Wen, C. F., 2005h:90067**

Xing, Zhi Dong (*with* Wang, Ruo Peng; Dong, Jian Min) An entropy function method for a class of linear programs. (Chinese. English and Chinese summaries) **2005a:90097**

Xu, Jing Yi *see* **Ye, Bing Ru et al.**

Xu, Weixuan *see* **Kou, Gang et al., (2005c:00015)**

Yan, Zi Zong (*with* Fei, Pu Sheng) Current equivalent facet algorithm for linear programming. (Chinese. English and Chinese summaries) **2005k:90072**

Ye, Bing Ru (*with* Dong, Zeng Chuan; Xu, Jing Yi; Chen, Le Xiang; Ye, Yu Da) Multivalued solutions of linear programming and the way to find them. (Chinese. English and Chinese summaries)

Ye, Yinyu *see* **Cheung, Dennis et al., 2005f:90063**

Ye, Yu Da *see* **Ye, Bing Ru et al.**

Yu, Qian *see* **Jiang, Yan et al., 2005f:90064**

Zhang, Guang-Quan *see* **Shi, Chenggen et al.**

Zheng, Xi Yin (*with* Ng, Kung Fu) Hoffman's least error bounds for systems of linear inequalities. (English summary) **2005i:90033**

Zhu, Ling Shan Research on more-for-less paradox and less-for-more paradox in mathematical programming. (Chinese. English and Chinese summaries)

Ziegler, Günter M. Typical and extremal linear programs. (English summary) **2005g:90082**

Zorkal'tsev, V. I. Solution of systems of two-sided linear inequalities by interior-point algorithms using the example of a model of the operating conditions of electrical power systems. (Russian. Russian summary) **2005b:90071**

Items with secondary classifications in 90C05

Abaffy, Jozsef (*with* Allevi, E.) A modified L-shaped method. (English summary) **2005i:90039**

Adamo, Massimiliano (*with* Amadori, Anna Lisa; Bernaschi, Massimo; La Chioma, Claudia; Marigo, Alessia; Piccoli, Benedetto; Sbaraglia, Simone; Uboldi, Adamo; Vergni, Davide; Fabbri, Paola; Iacovoni, Davide; Natale, Francesco; Scalera, Stefano; Spilotro, Lucia; Valletta, Antonella) Optimal strategies for the issuances of public debt securities. (English summary)

Allevi, E. *see* **Abaffy, Jozsef, 2005i:90039**

Amadori, Anna Lisa *see* **Adamo, Massimiliano et al.**

Aman, M. (*with* Kerayechian, A.) The sensitivity analysis of the linear programming methods for the Stokes problem. (English summary)
— (*with* Kerayechian, A.) Solving the Stokes problem by linear programming methods. (English summary) **2005f:65143**
Amini, Keyvan (*with* Peyghami, M. R.) An interior point method for linear programming based on a class of kernel functions. (English summary) **2005m:90157**
Arin, Javier (*with* Kuipers, Jeroen; Vermeulen, Dries) Geometry and computation of the Lorenz set. (English summary) **2005c:91015**
Ariyawansa, K. A. (*with* Felt, Andrew J.) On a new collection of stochastic linear programming test problems. (English summary)
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Bazaraa, Mokhtar S. (*with* Jarvis, John J.; Sherali, Hanif D.) ★ Linear programming and network flows. **2005g:90001**
Beck, Amir (*with* Teboulle, Marc) A conditional gradient method with linear rate of convergence for solving convex linear systems. (English summary) **2005b:90092**
Bector, C. R. (*with* Chandra, Suresh; Vidyottama, V.) Matrix games with fuzzy goals and fuzzy linear programming duality. (English summary) **2005f:91005**
— (*with* Chandra, Suresh; Vijay, Vidyottama) Duality in linear programming with fuzzy parameters and matrix games with fuzzy pay-offs. (English summary)
Ben-Hur, Asa (*with* Feinberg, Joshua; Fishman, Shmuel; Siegelmann, Hava T.) Random matrix theory for the analysis of the performance of an analog computer: a scaling theory. (English summary) **2005a:82050**
Bernaschi, Massimo *see* **Adamo, Massimiliano et al.**
Bigil'deev, S. I. The simplex method as an adaptive algorithm. (Russian. Russian summary) **2005c:90122**
Bixby, Robert E. (*with* Fenelon, Mary; Gu, Zonghao; Rothberg, Edward; Wunderling, Roland) Mixed-integer programming: a progress report. (English summary) (*see* **2005b:90009**)
Bouchard, G. (*with* Girard, Stéphane; Yuditskiĭ, A. B.; Nazin, Alexander V.) Nonparametric estimation of the support boundary by linear programming. (Russian. Russian summary) **2005f:90069**
Boulle, Marc Compact mathematical formulation for graph partitioning. (English summary) **2005h:90103**
Boyd, Stephen P. (*with* Vandenberghe, Lieven) ★ Convex optimization. **2005d:90002**
Burkard, Rainer E. (*with* Pleschiutschnig, Carmen; Zhang, Jian Zhong) Inverse median problems. (English summary) **2005h:90058**
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Caprara, Alberto (*with* Lodi, Andrea; Monaci, Michele) Fast approximation schemes for two-stage, two-dimensional bin packing. (English summary) **2005k:90221**
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Cucker, Felipe (*with* Wschebor, Mario) On the expected condition number of linear programming problems. (English summary) **2005m:90172**
Das, Makani (*with* Baurah, Hemanta K.) Solution of a linear programming problem with fuzzy data. (English summary) **2005j:90113**
Daugavet, V. A. (*with* Tanygina, N. A.) The convergence rate of the leveling method for uniform Σ-approximation. (English summary) **2005g:41045**
Demetriu, Sorin *see* **Trandafir, Romică et al.**
Deng, Sien (*with* Yang, Xiao Qi) Weak sharp minima in multicriteria linear programming. (English summary) **2005m:90103**
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Doerr, Benjamin Linear discrepancy of totally unimodular matrices. (English summary) **2005d:15024**
Donev, Aleksandar Nikola (*with* Torquato, Salvatore; Stillinger, Frank H.; Connelly, Robert) A linear programming algorithm to test for jamming in hard-sphere packings. (English summary) **2005a:74011**
Fabbri, Paola *see* **Adamo, Massimiliano et al.**
Famularo, Domenico (*with* Pugliese, Paolo; Sergeev, Yaroslav D.) Global optimization technique for fixed-order control design. (English summary)
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Fernández García, Francisco Ramón (*with* Hinojosa, Miguel A.; Puerto Albandoz, Justo) Set-valued TU-games. (English summary) **2005d:91008**
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Fragnelli, Vito A note on the Owen set of linear programming games and Nash equilibria. (English summary) **2005g:91020**
Frangioni, Antonio (*with* Gentile, Claudio) New preconditioners for KKT systems of network flow problems. (English summary) **2005h:90165**
Frauendorfer, Karl (*with* Haarbrücker, Gido) Numerical techniques in applied multistage stochastic programming. (English summary) **2005e:90079**
Freund, Robert M. Complexity of convex optimization using geometry-based measures and a reference point. (English summary) **2005c:90126**
— *see also* **Ordóñez, Fernando, 2005f:90175**
Fuchs, Jean-Jacques On sparse representations in arbitrary redundant bases. (English summary) **2005e:94022**
Fujishige, Satoru Dual greedy polyhedra choice functions, and abstract convex geometries. (English summary) **2005f:90168**
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Fung, Glenn M. (*with* Mangasarian, O. L.) A feature selection Newton method for support vector machine classification. (English summary) **2005a:90192**
Gabasov, R. (*with* Dmitruk, N. M.; Kirillova, F. M.) Synthesis of optimal indirect control systems. (Russian) **2005j:93030**
Ganesan, Ashwin (*with* Ross, Sheila R.; Barmish, B. Ross) An extreme point result for convexity, concavity and monotonicity of parameterized linear equation solutions. (English summary) **2005b:90138**
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Gioan, Emeric (*with* Las Vergnas, Michel) Bases, reorientations, and linear programming, in uniform and rank-3 oriented matroids. (English summary) **2005a:05053**
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Goldfarb, D. (*with* Scheinberg, K.) A product-form Cholesky factorization method for handling dense columns in interior point methods for linear programming. (English summary) **2005b:90157**
Gorbachev, D. V. (*with* Manoshina, A. S.) The Turán extremal problem for periodic functions with small support and its applications. (Russian. Russian summary) **2005k:42006**
Gu, A Lun (*with* Sun, Yong Guang; Wu, Zong Xin) A new dynamical-system-based method for solving linear inequalities. (Chinese. English and Chinese summaries)
Gu, Zonghao *see* **Bixby, Robert E. et al., (2005b:90009)**
Haarbrücker, Gido *see* **Frauendorfer, Karl, 2005e:90079**
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— Efficient solution generation for multiple objective linear programming based on extreme ray generation method. (English summary) **2005e:90107**
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— (*with* Tanino, Tetsuzo) Fuzzy linear programming with interactive uncertain parameters. (English summary) **2005c:90129**
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— *see also* **Sakawa, Masatoshi et al., 2005b:90175**
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Kim, Jae-Jun (*with* Singh, Tarunraj) Desensitized control of vibratory systems with friction: linear programming approach. (English summary)
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— A discrete Farkas lemma. (English summary) **2005h:90073**
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Lee, Young Il (*with* Kouvaritakis, Basil; Cannon, Mark) Constrained receding horizon predictive control for nonlinear systems. (English summary)
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Li, Michael Z. F. Pricing non-storable perishable goods by using a purchase restriction: general optimality results. (English summary)
Li, Xiang[4] *see* **Lagoa, Constantino M. et al., 2005m:90072**
Li, Xing Si *see* **Pan, Shaohua[2], 2005c:90114**
Lim, Churlzu *see* **Sherali, Hanif D., 2005a:90123**
Liu, Wenguo (*with* Chen, Jie[4]) Model invalidation in l_1 using frequency-domain data. (English summary) **2005a:93112**

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Lu, Jie[2] *see* **Shi, Chenggen et al., 2005f:91041**
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O'Neal, Jerome W. *see* **Monteiro, Renato D. C. et al., 2005h:90166**
Ordóñez, Fernando (*with* Freund, Robert M.) Computational experience and the explanatory value of condition measures for linear optimization. (English summary) **2005f:90175**
Pan, Shaohua[2] (*with* Li, Xing Si) A self-adjusting primal-dual interior point method for linear programs. (English summary) **2005c:90114**
Peyghami, M. R. *see* **Amini, Keyvan, 2005m:90157**
Pfeifle, Julian (*with* Ziegler, Günter M.) On the monotone upper bound problem. (English summary) **2005f:52032**
Piccoli, Benedetto *see* **Adamo, Massimiliano et al.**
Piercy, Craig A. *see* **Steuer, Ralph E., 2005g:90133**
Pleschiutschnig, Carmen *see* **Burkard, Rainer E. et al., 2005h:90058**
Popescu, Elena A dual approach to solving linear inequalities by unconstrained quadratic optimization. (English summary) **2005c:90063**
Prékopa, András (*with* Gao, Linchun) Bounding the probability of the union of events by aggregation and disaggregation in linear programs. (English summary)
— *see also* **Mádi-Nagy, Gergely, 2005a:90101**
Puerto Albandoz, Justo *see* **Fernández García, Francisco Ramón et al., 2005d:91008**
Pugliese, Paolo *see* **Famularo, Domenico et al.**
Punta, Elisabetta *see* **Bartolini, Giorgio et al., 2005a:93029**
Quilliot, Alain *see* **Moukrim, Aziz, 2005g:90059**
Ramos, Pedro A. *see* **Hurtado, Ferran et al., 2005e:68244**
Ray, Subhash C. ★ Data envelopment analysis. **2005a:90003**
Roshchin, R. A. Generalization of the spectral theorem to the case of families of noncommuting operators, and a linear programming problem. (Russian. Russian summary) **2005g:81180**
Ross, Sheila R. *see* **Ganesan, Ashwin et al., 2005b:90138**
Rosta, V. *see* **Fukuda, Komei, 2005e:90168**
Rothberg, Edward *see* **Bixby, Robert E. et al., (2005b:90009)**
Roundy, Robin O. *see* **Levi, Retsef et al., (2005i:68005)**
Safronova, I. A. *see* **Shmyrëv, V. I.**
Sakawa, Masatoshi (*with* Kato, Kosuke; Katagiri, Hideki) An interactive fuzzy satisficing method for multiobjective linear programming problems with random variable coefficients through a probability maximization model. (English summary) **2005b:90175**
— *see also* **Katagiri, Hideki et al., (2005b:90008)**
Salahi, Maziar (*with* Sotirov, Renata; Terlaky, Tamás) On self-regular IPMs. (English summary) **2005m:90160**
Sbaraglia, Simone *see* **Adamo, Massimiliano et al.**
Scalera, Stefano *see* **Adamo, Massimiliano et al.**
Scheinberg, K. *see* **Goldfarb, D., 2005b:90157**
Schneeweiß, Christoph On the empirical validity of production theory. (English summary)
Seara, Carlos *see* **Hurtado, Ferran et al., 2005e:68244**
Sergeev, Yaroslav D. *see* **Famularo, Domenico et al.**
Sherali, Hanif D. (*with* Lim, Churlzu) On embedding the volume algorithm in a variable target value method. (English summary) **2005a:90123**
— *see also* **Bazaraa, Mokhtar S. et al., 2005g:90001**
Shi, Chenggen (*with* Zhang, Guang-Quan; Lu, Jie[2]) On the definition of linear bilevel programming solution. (English summary) **2005f:91041**
Shmoys, David B. *see* **Levi, Retsef et al., (2005i:68005)**
Shmyrëv, V. I. (*with* Safronova, I. A.) A new method for the problem of optimizing leasing payments. (Russian. Russian summary)
Shoja, N. *see* **Jahanshahloo, Gholamreza et al., 2005g:90124**
Siegelmann, Hava T. *see* **Ben-Hur, Asa et al., 2005a:82050**
Singh, Tarunraj *see* **Kim, Jae-Jun**
Sorensen, D. C. *see* **Oliveira, Aurelio R. L., 2005h:65053**
Sotirov, Renata *see* **Salahi, Maziar et al., 2005m:90160**
Spilotro, Lucia *see* **Adamo, Massimiliano et al.**
Stanimirović, Predrag S. (*with* Stojković, Nebojša V.; Kovačević-Vujčić, Vera V.) Stabilization of Mehrotra's primal-dual algorithm and its implementation. (English summary) **2005k:90209**
Steuer, Ralph E. (*with* Piercy, Craig A.) A regression study of the number of efficient extreme points in multiple objective linear programming. (English summary) **2005g:90133**
Stillinger, Frank H. *see* **Donev, Aleksandar Nikola et al., 2005a:74011**
Stojković, Nebojša V. *see* **Stanimirović, Predrag S. et al., 2005k:90209**
Sun, Jie *see* **Liu, Xinwei, 2005a:90114**
Sun, Yong Guang *see* **Gu, A Lun et al.**
Sznaier, Mario *see* **Lagoa, Constantino M. et al., 2005m:90072**
Tanino, Tetsuzo *see* **Inuiguchi, Masahiro, 2005c:90129**
Tanygina, N. A. *see* **Daugavet, V. A., 2005g:41045**
Teboulle, Marc *see* **Beck, Amir, 2005b:90092**
Terlaky, Tamás *see* **Salahi, Maziar et al., 2005m:90160**
Torquato, Salvatore *see* **Donev, Aleksandar Nikola et al., 2005a:74011**
Toussaint, Godfried *see* **Marlin, Benjamin MacKay, 2005f:52031**
Trandafir, Romică (*with* Demetriu, Sorin; Mierluş-Mazilu, Ion) Determination of reliability bounds for structural systems using linear programming. (English summary)
Truong, Van Anh (*with* Tunçel, Levent) Geometry of homogeneous convex cones, duality mapping, and optimal self-concordant barriers. (English summary) **2005a:90124**
Tsuchiya, Takashi[1] *see* **Monteiro, Renato D. C. et al., 2005h:90166**
Tunçel, Levent *see* **Truong, Van Anh, 2005a:90124**
Uboldi, Adamo *see* **Adamo, Massimiliano et al.**
Valletta, Antonella *see* **Adamo, Massimiliano et al.**
Vandenberghe, Lieven *see* **Boyd, Stephen P., 2005d:90002**
Vasant, Pandian M. Solving fuzzy linear programming problems with modified S-curve membership function. (English summary)
Vasil'ev, F. P. (*with* Ivanitskiĭ, A. Yu.) ★ Линейное программирование. (Russian) [Linear programming] **2005e:90001**
Vergni, Davide *see* **Adamo, Massimiliano et al.**
Vermeulen, Dries *see* **Arin, Javier et al., 2005c:91015**
Vidyottama, V. *see* **Bector, C. R. et al., 2005f:91005**
Vijay, Vidyottama *see* **Bector, C. R. et al.**
Vincent, Daniel R. *see* **Manelli, Alejandro M., 2005b:91167**
Wang, Xu-Jia On the design of a reflector antenna. II. (English summary) **2005f:78005**
Wschebor, Mario *see* **Cucker, Felipe, 2005m:90172**
Wu, Zong Xin *see* **Gu, A Lun et al.**
Wunderling, Roland *see* **Bixby, Robert E. et al., (2005b:90009)**
Xia, Zun Quan *see* **Zou, Mei-Feng, 2005g:90088**
Xing, Zhao (*with* Zhang, Weixiong) MaxSolver: an efficient exact algorithm for (weighted) maximum satisfiability. (English summary) **2005k:90075**
Xu, Guang (*with* Xu, Jinhui) An LP rounding algorithm for approximating uncapacitated facility location problem with penalties. (English summary)
Xu, Jinbo (*with* Xu, Ying[1]) Protein threading by linear programming: theoretical analysis and computational results. (English summary) **2005i:92011**
Xu, Jinhui *see* **Xu, Guang**
Xu, Ying[1] *see* **Xu, Jinbo, 2005i:92011**
Yajima, Yasutoshi Linear programming approaches for multicategory support vector machines. (English summary) **2005g:68142**
Yang, Xiao Qi *see* **Deng, Sien, 2005m:90103**
Yıldırım, E. Alper Unifying optimal partition approach to sensitivity analysis in conic optimization. (English summary) **2005e:90134**
Yuditskiĭ, A. B. *see* **Bouchard, G. et al., 2005f:90069**
Zhang, Guang-Quan *see* **Shi, Chenggen et al., 2005f:91041**
Zhang, Jian Zhong *see* **Burkard, Rainer E. et al., 2005h:90058**
Zhang, Weixiong *see* **Xing, Zhao, 2005k:90075**
Zhu, De-tong A trust region algorithm via bilevel linear programming for solving the general multicommodity minimal cost flow problems. (English summary) **2005g:90018**
Ziegler, Günter M. *see* **Pfeifle, Julian, 2005f:52032**
Zolezzi, Tullio *see* **Bartolini, Giorgio et al., 2005a:93029**
Zou, Mei-Feng (*with* Xia, Zun Quan) ABS algorithms for Diophantine linear equations and integer LP problems. (English summary) **2005g:90088**

Items listed otherwise than by author

Errata:
"Generating functions and duality for integer programs" Erratum to: "Generating functions and duality for integer programs" [Discrete Optim. 1 (2004), no. 2, 167–187; MR2099672] by J. B. Lasserre. (English summary)

90C06 Large-scale problems

Amirteimoori, Alireza (*with* Jahanshahloo, Gholamreza; Kordrostami, Sohrab) Prioritization method for frontier DMUs: a distance-based approach.
Barnhart, Cynthia *see* **Clark, Stephen J. et al.**
Chen, Yao Measuring super-efficiency in DEA in the presence of infeasibility. (English summary) **2005e:90065**
Clark, Stephen J. (*with* Barnhart, Cynthia; Kolitz, S. E.) Large-scale optimization planning methods for the distribution of United States Army munitions. (English summary)
Donchenko, V. S. (*with* Kirichenko, N. F.; Krivonos, Yu. G.) Plural uncertainty models: inequalities. (Ukrainian. English summary)

Fausten, Daniela (*with* Luther, Wolfram J.; Haßlinger, Gerhard) Accurate computation of traffic workload distributions. (English summary)
Freund, Robert M. *see* **Sun, Peng, 2005f:90067**
Gu, A Lun (*with* Sun, Yong Guang; Wu, Zong Xin) A new dynamical-system-based method for solving linear inequalities. (Chinese. English and Chinese summaries)
Hadi Vencheh, A. (*with* Kazemi Matin, R.; Tavassoli Kajani, M.) Undesirable factors in efficiency measurement. (English summary)
Haghighat, Mehdi Sohrabi (*with* Khorram, Esmaile) The maximum and minimum number of efficient units in DEA with interval data. (English summary)
Haßlinger, Gerhard *see* **Fausten, Daniela et al.**
Hosseinzadeh Lotfi, F. *see* **Jahanshahloo, Gholamreza et al.** *and* **Saen, Reza Farzipoor et al.**
Hwang, Shiuh-Nan *see* **Sueyoshi, Toshiyuki**
Jahanshahloo, Gholamreza (*with* Hosseinzadeh Lotfi, F.; Zhiani Rezai, H.; Rezai Balf, F.) Using Monte Carlo method for ranking efficient DMUs. (English summary)
— *see also* **Amirteimoori, Alireza et al.**
Kazemi Matin, R. *see* **Hadi Vencheh, A. et al.**
Khorram, Esmaile *see* **Haghighat, Mehdi Sohrabi**
Kirichenko, N. F. *see* **Donchenko, V. S. et al.**
Kolitz, S. E. *see* **Clark, Stephen J. et al.**
Kordrostami, Sohrab *see* **Amirteimoori, Alireza et al.**
Krivonos, Yu. G. *see* **Donchenko, V. S. et al.**
Lucidi, Stefano (*with* Piccialli, Veronica) A derivative-based algorithm for a particular class of mixed variable optimization problems. (English summary) **2005b:90072**
Luther, Wolfram J. *see* **Fausten, Daniela et al.**
Memariani, Azizollah *see* **Saen, Reza Farzipoor et al.**
Moritzen, K. *see* **Zillober, Ch. et al., 2005a:90098**
Piccialli, Veronica *see* **Lucidi, Stefano, 2005b:90072**
Podinovski, V. V. Selective convexity in DEA models. (English summary) **2005e:90066**
Propoĭ, A. I. Approximation of pseudometrics on the domination cone. (Russian. Russian summary) **2005d:90076**
Rezai Balf, F. *see* **Jahanshahloo, Gholamreza et al.**
Saen, Reza Farzipoor (*with* Memariani, Azizollah; Hosseinzadeh Lotfi, F.) The effect of correlation coefficient among multiple input vectors on the efficiency mean in data envelopment analysis. (English summary)
Schittkowski, Klaus *see* **Zillober, Ch. et al., 2005a:90098**
Sekitani, Kazuyuki *see* **Sueyoshi, Toshiyuki, 2005f:90066**
Sueyoshi, Toshiyuki (*with* Hwang, Shiuh-Nan) Parallel network computing approach for DEA-RAM measurement. (English summary)
— (*with* Sekitani, Kazuyuki) Returns to scale in dynamic DEA. (English summary) **2005f:90066**
Sun, Peng (*with* Freund, Robert M.) Computation of minimum-volume covering ellipsoids. (English summary) **2005f:90067**
Sun, Yong Guang *see* **Gu, A Lun et al.**
Tavassoli Kajani, M. *see* **Hadi Vencheh, A. et al.**
Toh, Kim-Chuan Solving large scale semidefinite programs via an iterative solver on the augmented systems. (English summary) **2005c:90047**
Wu, Zong Xin *see* **Gu, A Lun et al.**
Zhiani Rezai, H. *see* **Jahanshahloo, Gholamreza et al.**
Zillober, Ch. (*with* Schittkowski, Klaus; Moritzen, K.) Very large scale optimization by sequential convex programming. (English summary) **2005a:90098**

Items with secondary classifications in 90C06

Adel'shin, A. V. Investigation of maximum and minimum satisfiability problems using the L-partition. (Russian. Russian summary) **2005e:90068**
Ahuja, Ravindra K. *see* **Romeijn, H. Edwin et al., 2005m:90175**
Armacost, A. P. *see* **Nielsen, C. A. et al.**
Asada, Takeshi *see* **Nakayama, Hirotaka J. et al.**
Avella, Pasquale (*with* Boccia, Maurizio; Di Martino, Carmine; Oliviero, Giuseppe; Sforza, Antonio; Vasil'ev, Igor) A decomposition approach for a very large scale optimal diversity management problem. (English summary) **2005m:90049**
Barnhart, Cynthia *see* **Nielsen, C. A. et al.**
Baykasoğlu, Adil Preemptive goal programming using simulated annealing. (English summary)
Bertazzi, Luca (*with* Speranza, Maria Grazia) Improved rounding procedures for the discrete version of the capacitated EOQ problem. (English summary)
Boccia, Maurizio *see* **Avella, Pasquale et al., 2005m:90049**
Bomze, Immanuel M. Optimization of functions with rank-two variation over a box. (English summary) **2005g:90136**
Briant, Olivier (*with* Naddef, Denis) The optimal diversity management problem. (English summary) **2005b:90036**
Byrd, Richard H. (*with* Nocedal, Jorge; Waltz, Richard A.) Feasible interior methods using slacks for nonlinear optimization. (English summary) **2005c:90112**
Campêlo, Manoel *see* **de Sabóia, Carlos Henrique Medeiros et al., 2005g:90108**
Chen, Danny Z. (*with* Daescu, Ovidiu; Dai, Yang; Katoh, Naoki; Wu, Xiaodong[1]; Xu, Jinhui) Efficient algorithms and implementations for optimizing the sum of linear fractional functions, with applications. (English summary) **2005j:90065**
Daescu, Ovidiu *see* **Chen, Danny Z. et al., 2005j:90065**
Dai, Yang *see* **Chen, Danny Z. et al., 2005j:90065**
Dempsey, James F. *see* **Romeijn, H. Edwin et al., 2005m:90175**
Di Martino, Carmine *see* **Avella, Pasquale et al., 2005m:90049**
Elber, Ron *see* **Wagner, Michael et al.**
Evtushenko, Yurĭĭ Gavrilovich *see* **Golikov, A. I., 2005i:90031**
Fletcher, Roger On the Barzilai-Borwein method. (English summary) **2005m:90116**
Foroughi, A. A. *see* **Jahanshahloo, Gholamreza**
Freund, Roland W. (*with* Jarre, Florian) An extension of the positive real lemma to descriptor systems. (English summary) **2005d:93067**
Friedman, Lea (*with* Hadad, Yossi) Bi-criteria ranking in the DEA context. (English summary)
Gao, Yue Lin *see* **Yang, Yue Ting et al.**
Gelenbe, Erol Advances in modelling of complex systems: preface to the special issue.
Glover, Fred W. *see* **Yagiura, Mutsunori et al., 2005f:90061**
Golikov, A. I. (*with* Evtushenko, Yurĭĭ Gavrilovich) A method for solving large-scale linear programming problems. (Russian) **2005i:90031**
Gould, Nicholas I. M. (*with* Orban, Dominique; Toint, Philippe L.) GALAHAD, a library of thread-safe Fortran 90 packages for large-scale nonlinear optimization. (English summary) **2005b:90006**
— (*with* Leyffer, Sven; Toint, Philippe L.) A multidimensional filter algorithm for nonlinear equations and nonlinear least-squares. (English summary) **2005m:90117**
Hadad, Yossi *see* **Friedman, Lea**
Helmberg, Christoph A cutting plane algorithm for large scale semidefinite relaxations. (English summary) (*see* **2005b:90009**)
Hosseinzadeh Lotfi, F. *see* **Jahanshahloo, Gholamreza et al.**
Ibaraki, Toshihide *see* **Yagiura, Mutsunori et al., 2005f:90061**
Iskander, Maged George A possibility programming approach for stochastic fuzzy multiobjective linear fractional programs. (English summary)
Iwasaki, Shinji *see* **Yagiura, Mutsunori et al., 2005f:90061**
Jahanshahloo, Gholamreza (*with* Foroughi, A. A.) Efficiency analysis, generating an efficient extreme point for an MOLP, and some comparisons. (English summary)
— (*with* Hosseinzadeh Lotfi, F.; Zohrehbandian, M.) Finding the piecewise linear frontier production function in data envelopment analysis. (English summary)
Jarre, Florian *see* **Freund, Roland W., 2005d:93067**
Jefferson, Thomas R. *see* **Scott, Carlton H., 2005j:90096**
Katoh, Naoki *see* **Chen, Danny Z. et al., 2005j:90065**
Kobylkin, K. S. A two-dimensional representation of three-dimensional systems of homogeneous linear inequalities. (Russian. Russian summary) **2005e:90062**
Koenker, Roger (*with* Ng, Pin) A Frisch-Newton algorithm for sparse quantile regression. (English summary)
Kolitz, S. E. *see* **Nielsen, C. A. et al.**
Kumar, Arvind[2] *see* **Romeijn, H. Edwin et al., 2005m:90175**
Leyffer, Sven *see* **Gould, Nicholas I. M. et al., 2005m:90117**
Lim, Churlzu *see* **Sherali, Hanif D., 2005a:90123**
Litvinchev, Igor S. A circular cone relaxation primal interior point algorithm for LP. (English summary) **2005a:90187**
Liu, Xinwei (*with* Zhao, Gongyun) A decomposition method based on SQP for a class of multistage stochastic nonlinear programs. (English summary) **2005b:90082**
Lychak, M. M. *see* **Zelyk, Ya. I., 2005h:65078**
Mangasarian, O. L. A Newton method for linear programming. (English summary) **2005a:90093**
Meller, Jarosław *see* **Wagner, Michael et al.**
Memariani, Azizollah *see* **Saati Mohtadi, S.**
Naddef, Denis *see* **Briant, Olivier, 2005b:90036**
Nakayama, Hirotaka J. (*with* Yun, Ye Boon; Asada, Takeshi; Yoon, Min) MOP/GP models for machine learning. (English summary)
Ng, Pin *see* **Koenker, Roger**
Nielsen, C. A. (*with* Armacost, A. P.; Barnhart, Cynthia; Kolitz, S. E.) Network design formulations for scheduling U.S. Air Force channel route missions. (English summary)
Nocedal, Jorge *see* **Byrd, Richard H. et al., 2005c:90112**
Oliviero, Giuseppe *see* **Avella, Pasquale et al., 2005m:90049**
Orban, Dominique *see* **Gould, Nicholas I. M. et al., 2005b:90006**
Piercy, Craig A. *see* **Steuer, Ralph E., 2005g:90133**
Pucci de Farias, Daniela (*with* Van Roy, Benjamin) On constraint sampling in the linear programming approach to approximate dynamic programming. (English summary) **2005b:90149**
Romeijn, H. Edwin (*with* Ahuja, Ravindra K.; Dempsey, James F.; Kumar, Arvind[2]) A column generation approach to radiation therapy treatment planning using aperture. (English summary) **2005m:90175**
Roupin, Frédéric From linear to semidefinite programming: an algorithm to obtain semidefinite relaxations for bivalent quadratic problems. (English summary) **2005h:90090**
Saati Mohtadi, S. (*with* Memariani, Azizollah) Reducing weight flexibility in fuzzy DEA. (English summary)
de Sabóia, Carlos Henrique Medeiros (*with* Campêlo, Manoel; Scheimberg, Susana) A computational study of global algorithms for linear bilevel programming. (English summary) **2005g:90108**
Scheimberg, Susana *see* **de Sabóia, Carlos Henrique Medeiros et al., 2005g:90108**
Scott, Carlton H. (*with* Jefferson, Thomas R.) Duality for linear multiplicative programs. (English summary) **2005j:90096**
Serafini, T. (*with* Zanghirati, G.; Zanni, L.) Large quadratic programs in training Gaussian support vector machines. (English summary) **2005c:90064**
Sforza, Antonio *see* **Avella, Pasquale et al., 2005m:90049**
Sherali, Hanif D. (*with* Lim, Churlzu) On embedding the volume algorithm in a variable target value method. (English summary) **2005a:90123**
Speranza, Maria Grazia *see* **Bertazzi, Luca**
Spielman, Daniel A. (*with* Teng, Shang-Hua) Smoothed analysis of algorithms: why the simplex algorithm usually takes polynomial time. (English summary) (*see* **2005j:68008**)
Steuer, Ralph E. (*with* Piercy, Craig A.) A regression study of the number of efficient extreme points in multiple objective linear programming. (English summary) **2005g:90133**
Teng, Shang-Hua *see* **Spielman, Daniel A., (2005j:68008)**
Toint, Philippe L. *see* **Gould, Nicholas I. M. et al., 2005b:90006** *and* **2005m:90117**
Van Roy, Benjamin *see* **Pucci de Farias, Daniela, 2005b:90149**
Vasil'ev, Igor *see* **Avella, Pasquale et al., 2005m:90049**
Wagner, Michael (*with* Meller, Jarosław; Elber, Ron) Large-scale linear programming techniques for the design of protein folding potentials. (English summary)
Waltz, Richard A. *see* **Byrd, Richard H. et al., 2005c:90112**
Wu, Xiaodong[1] *see* **Chen, Danny Z. et al., 2005j:90065**
Xu, Cheng Xian *see* **Yang, Yue Ting et al.**
Xu, Jinhui *see* **Chen, Danny Z. et al., 2005j:90065**
Yagiura, Mutsunori (*with* Iwasaki, Shinji; Ibaraki, Toshihide; Glover, Fred W.) A very large neighborhood search algorithm for the multi-resource generalized assignment problem. (English summary) **2005f:90061**

Yang, Yue Ting (*with* Xu, Cheng Xian; Gao, Yue Lin) A limited memory method for large scale problems. (Chinese. English and Chinese summaries)
Yoon, Min *see* **Nakayama, Hirotaka J. et al.**
Yun, Ye Boon *see* **Nakayama, Hirotaka J. et al.**
Zanghirati, G. *see* **Serafini, T. et al., 2005c:90064**
Zanni, L. *see* **Serafini, T. et al., 2005c:90064**
Zelyk, Ya. I. (*with* Lychak, M. M.) Computer technology of interval-set analysis in MATLAB. (Russian. English and Ukrainian summaries) **2005h:65078**
Zhao, Gongyun *see* **Liu, Xinwei, 2005b:90082**
Zohrehbandian, M. *see* **Jahanshahloo, Gholamreza et al.**

90C08 Special problems of linear programming (transportation, multi-index, etc.)

Alirezaee, Mohammad Reza The overall assurance interval for the non-Archimedean Epsilon in DEA models; a partition base algorithm. (English summary)
— *see also* **MirHassani, S. A.**
Amaral, Paula (*with* Barahona, Pedro) A framework for optimal correction of inconsistent linear constraints. (English summary) **2005j:90046**
Amirteimoori, Alireza (*with* Kordrostami, Sohrab) Multi-component efficiency measurement with imprecise data. (English summary)
Antonescu, Iulian Categories of linear mathematical programming problems with interval coefficients. (Romanian. Romanian summary)
Arkin, Esther M. (*with* Hassin, Refael; Rubinstein, Shlomi; Sviridenko, M. I.) Approximations for maximum transportation problem with permutable supply vector and other capacitated star packing problems. (*see* **2005a:68002**)
Barahona, Pedro *see* **Amaral, Paula, 2005j:90046**
Duan, Yong Rui (*with* Tian, Peng; Zhang, Wei Ping[3]) Relative efficiency analysis of complex systems based on data envelopment analysis. (Chinese. English and Chinese summaries)
Dyson, R. G. *see* **Sarrico, C. S., 2005a:90102**
Foroughi, A. A. *see* **Jahanshahloo, Gholamreza et al.**
Gatto, Michael (*with* Jacob, Riko; Peeters, Leon; Weber, Birgitta; Widmayer, Peter) Theory on the tracks: a selection of railway optimization problems. (English summary)
Hadi Vencheh, A. *see* **Jahanshahloo, Gholamreza et al., 2005b:90073** *and* **2005f:90068**
Hassin, Refael *see* **Arkin, Esther M. et al., (2005a:68002)**
Hosseinzadeh Lotfi, F. *see* **Jahanshahloo, Gholamreza et al., 2005a:90100; 2005g:90083** *and* **2005i:90034**
Ishii, Hiroaki[1] Competitive transportation problems. (English summary) **2005a:90099**
Jacob, Riko *see* **Gatto, Michael et al.**
Jahanshahloo, Gholamreza (*with* Hosseinzadeh Lotfi, F.; Shoja, N.; Sanei, M.) An alternative approach for equitable allocation of shared costs by using DEA. (English summary) **2005a:90100**
— (*with* Kazemi Matin, R.; Hadi Vencheh, A.) On return to scale of fully efficient DMUs in data envelopment analysis under interval data. (English summary) **2005b:90073**
— (*with* Hadi Vencheh, A.; Foroughi, A. A.; Kazemi Matin, R.) Inputs/outputs estimation in DEA when some factors are undesirable. (English summary)
— (*with* Soleimani-damaneh, M.; Nasrabadi, Ebrahim) Measure of efficiency in DEA with fuzzy input-output levels: a methodology for assessing, ranking and imposing of weights restrictions. (English summary) **2005d:90077**
— (*with* Hosseinzadeh Lotfi, F.; Shoja, N.; Tohidi, G.; Razavyan, S.) Input estimation and identification of extra inputs in inverse DEA models. (English summary) **2005i:90034**
— (*with* Hosseinzadeh Lotfi, F.; Moradi, M.) Sensitivity and stability analysis in DEA with interval data. (English summary) **2005g:90083**
— (*with* Hosseinzadeh Lotfi, F.; Shoja, N.; Tohidi, G.) A method for finding efficient DMUs in DEA using 0-1 linear programming. (English summary)
— (*with* Kazemi Matin, R.; Hadi Vencheh, A.) On FDH efficiency analysis with interval data. (English summary) **2005f:90068**
— (*with* Memariani, Azizollah; Hosseinzadeh Lotfi, F.; Zhiani Rezai, H.) A note on some of DEA models and finding efficiency and complete ranking using common set of weights. (English summary)
Kazemi Matin, R. *see* **Jahanshahloo, Gholamreza et al., 2005b:90073** *and* **2005f:90068**
Kordrostami, Sohrab *see* **Amirteimoori, Alireza**
Kravtsov, M. K. (*with* Lukshin, E. V.) On the noninteger vertices of the polyhedron in the three-index axial transportation problem. (Russian. Russian summary) **2005e:90067**
Lukshin, E. V. *see* **Kravtsov, M. K., 2005e:90067**
Mádi-Nagy, Gergely (*with* Prékopa, András) On multivariate discrete moment problems and their applications to bounding expectations and probabilities. (English summary) **2005a:90101**
Măruşter, Ştefan On the projection methods for convex feasibility problems. (English summary)
Memariani, Azizollah *see* **Jahanshahloo, Gholamreza et al.**
MirHassani, S. A. (*with* Alirezaee, Mohammad Reza) An efficient approach for computing non-Archimedean ϵ in DEA based on integrated models. (English summary)
Moradi, M. *see* **Jahanshahloo, Gholamreza et al., 2005g:90083**
Nakayama, Hirotaka J. *see* **Yun, Ye Boon et al., 2005a:90104**
Nasrabadi, Ebrahim *see* **Jahanshahloo, Gholamreza et al., 2005d:90077**
Neralić, Luka Preservation of efficiency and inefficiency classification in data envelopment analysis. (English summary) **2005b:90074**
Ozdemir, Müjgan Sagir Validity and inconsistency in the analytic hierarchy process. (English summary)
Papamanthou, Charalampos (*with* Paparrizos, Konstantinos; Samaras, Nikolaos) Computational experience with exterior point algorithms for the transportation problem. (English summary)
Paparrizos, Konstantinos *see* **Papamanthou, Charalampos et al.**
Paradi, J. C. *see* **Sowlati, T. et al.**
Peeters, Leon *see* **Gatto, Michael et al.**
Popescu, Elena On the approximation of inconsistent inequality systems. (English summary)
Prékopa, András *see* **Mádi-Nagy, Gergely, 2005a:90101**
Razavyan, S. *see* **Jahanshahloo, Gholamreza et al., 2005i:90034**
Rubinstein, Shlomi *see* **Arkin, Esther M. et al., (2005a:68002)**
Samaras, Nikolaos *see* **Papamanthou, Charalampos et al.**
Sanei, M. *see* **Jahanshahloo, Gholamreza et al., 2005a:90100**
Sarrico, C. S. (*with* Dyson, R. G.) Restricting virtual weights in data envelopment analysis. (English summary) **2005a:90102**
Shi, Jian[2] (*with* Wei, Quan Ling) Characteristic analysis of the DEA model for uncontrollable factors. (Chinese. English and Chinese summaries)
Shoja, N. *see* **Jahanshahloo, Gholamreza et al., 2005a:90100** *and* **2005i:90034**
Soleimani-damaneh, M. *see* **Jahanshahloo, Gholamreza et al., 2005d:90077**
Sowlati, T. (*with* Paradi, J. C.; Suld, C.) Information systems project prioritization using data envelopment analysis. (English summary)
Subramani, K. Periodic linear programming with applications to real-time scheduling. (English summary)
Suld, C. *see* **Sowlati, T. et al.**
Sun, Huan Chun (*with* Wang, Yue Fang) Graphical operating method of relative difference for solving some special discrete linear programming problems in operational research. (Chinese. English and Chinese summaries)
Sviridenko, M. I. *see* **Arkin, Esther M. et al., (2005a:68002)**
Tanino, Tetsuzo *see* **Yun, Ye Boon et al., 2005a:90104**
Tian, Peng *see* **Duan, Yong Rui et al.**
Tohidi, G. *see* **Jahanshahloo, Gholamreza et al., 2005i:90034**
Vaninsky, Alexander Combining data envelopment analysis with neural networks: application to analysis of stock prices. (English summary)
Wang, Yue Fang *see* **Sun, Huan Chun**
Weber, Birgitta *see* **Gatto, Michael et al.**
Wei, Quan Ling (*with* Yan, Hong[2]) Congestion and returns to scale in data envelopment analysis. (English summary) **2005a:90103**
— *see also* **Shi, Jian[2]**
Widmayer, Peter *see* **Gatto, Michael et al.**
Yan, Hong[2] *see* **Wei, Quan Ling, 2005a:90103**
Yun, Ye Boon (*with* Nakayama, Hirotaka J.; Tanino, Tetsuzo) A generalized model for data envelopment analysis. (English summary) **2005a:90104**
Zhang, Wei Ping[3] *see* **Duan, Yong Rui et al.**
Zhiani Rezai, H. *see* **Jahanshahloo, Gholamreza et al.**

Items with secondary classifications in 90C08

Aardal, Karen Comments on the paper: "Attacking the market split problem with lattice point enumeration" [J. Comb. Optim. **6** (2002), no. 1, 5–16; MR1880728 (2002m:90047)] by A. Wassermann. (English summary)
Amaya, Jorge *see* **Gómez Fernández, Juan Alfredo et al., 2005m:90135**
Avis, David (*with* Umemoto, Jun) Stronger linear programming relaxations of max-cut. (English summary) **2005b:90147**
Bartal, Yair (*with* Byers, John W.; Raz, Danny) Fast, distributed approximation algorithms for positive linear programming with applications to flow control. (English summary) **2005j:68123**
Basso, Antonella (*with* Funari, Stefania) Measuring the performance of museums: classical and FDH DEA models. (English summary)
Bit, A. K. Fuzzy programming with hyperbolic membership functions for multiobjective capacitated transportation problem. (English summary)
Bosch, Paul J. *see* **Gómez Fernández, Juan Alfredo et al., 2005m:90135**
Byers, John W. *see* **Bartal, Yair et al., 2005j:68123**
Chao, Henry Chung-Jen (*with* Yang, Kuo-Lung; Chu, Peter) Note on diagonal procedure in analytic hierarchy process. (English summary)
Chen, Hai-feng (*with* Cho, Joong Rae; Lee, Jeong Tae) Solving Hitchcock's transportation problem by a genetic algorithm. (English summary)
Chen, Le Xiang *see* **Ye, Bing Ru et al.**
Chen, Yao Measuring super-efficiency in DEA in the presence of infeasibility. (English summary) **2005e:90065**
Ching, Wai Ki (*with* Fung, Eric S.; Ng, Michael K.) Higher-order Markov chain models for categorical data sequences. (English summary) **2005a:62185**
Cho, Joong Rae *see* **Chen, Hai-feng et al.**
Chu, Peter *see* **Chao, Henry Chung-Jen et al.**
(Cooper, William W.) *see* **Handbook: Data envelopment analysis, 2005f:90005**
Dakhly, A. I. *see* **Habib, Aziz Shafik Mohamed**
Dong, Zeng Chuan *see* **Ye, Bing Ru et al.**
Dumett, Miguel A. (*with* Keener, James P.) An immersed interface method for anisotropic elliptic problems on irregular domains in 2D. (English summary) **2005j:65125**
de Farias, D. P. (*with* Van Roy, Benjamin) The linear programming approach to approximate dynamic programming. (English summary) **2005m:90146**
Fei, Pu Sheng *see* **Yan, Zi Zong, 2005k:90072** *and* **Huang, Hui et al.**
Feng, Xiang Qian (*with* Li, Rong Sheng[2]; Zhu, Nian Lei) Properties and algorithms for bilevel linear fractional programming problems. (Chinese. English and Chinese summaries)
Filatov, A. Yu. *see* **Zorkal'tsev, V. I., 2005k:65109**
Foroughi, A. A. (*with* Jones, D. F.; Tamiz, M.) A selection method for a preferential election. (English summary)
Funari, Stefania *see* **Basso, Antonella**
Fung, Eric S. *see* **Ching, Wai Ki et al., 2005a:62185**
Gaonkar, Roshan (*with* Viswanadham, Nukala) Integrated planning in supply chains with buy-side and sell-side marketplaces. (English summary)
Gómez Fernández, Juan Alfredo (*with* Bosch, Paul J.; Amaya, Jorge) Duality for inexact semi-infinite linear programming. (English summary) **2005m:90135**
Gribonval, Rémi (*with* Nielsen, Morten[2]) Sparse representations in unions of bases. (English summary) **2005a:94016**
Guu, Sy-Ming *see* **Wu, Yan-Kuen**
Habib, Aziz Shafik Mohamed (*with* Dakhly, A. I.) Algorithms for calculation of the reliability bounds of linear connected-(r, s)-out-of-(m, n): F lattice system. (English summary)

Haurie, Alain (*with* Moresino, F.; Vial, J.-Ph.) Singularly perturbed hybrid control systems approximated by structured linear programs. **2005b:93120**
Herrero, Ines Different approaches to efficiency analysis. An application to the Spanish trawl fleet operating in Moroccan waters. (English summary)
Hosseinzadeh Lotfi, F. *see* **Saen, Reza Farzipoor et al.**
Huang, Hui (*with* Fei, Pu Sheng; Yuan, Yuan) A primal-dual infeasible-interior-point algorithm for multiple objective linear programming problems. (English summary)
Ivanitskiĭ, A. Yu. *see* **Vasil'ev, F. P., 2005e:90001**
Jones, D. F. *see* **Foroughi, A. A. et al.**
Jorge, Jesús M. Characterizing complete weak efficiency in multiple objective linear programming. (English and Spanish summaries)
Keener, James P. *see* **Dumett, Miguel A., 2005j:65125**
Kerrigan, Eric C. (*with* Maciejowski, Jan M.) Feedback min-max model predictive control using a single linear program: robust stability and the explicit solution. (English summary) **2005f:93070**
Kimura, Hidenori *see* **Oishi, Yasuaki**
Kou, Gang (*with* Peng, Yi[2]; Shi, Yong[1]; Wise, Morgan; Xu, Weixuan) Discovering credit cardholders' behavior by multiple criteria linear programming. (English summary) **2005k:90060**
Lee, Jeong Tae *see* **Chen, Hai-feng et al.**
Lee, Jon[2] Cropped cubes. (English summary) **2005a:90199**
Leyffer, Sven *see* **Pang, Jong-Shi, 2005e:91089**
Li, Rong Sheng[2] *see* **Feng, Xiang Qian et al.**
Long, Jianmin *see* **Prékopa, András et al., 2005b:90083**
Maciejowski, Jan M. *see* **Kerrigan, Eric C., 2005f:93070**
Mangasarian, O. L. Support vector machine classification via parameterless robust linear programming. (English summary) **2005k:90071**
Memariani, Azizollah *see* **Saen, Reza Farzipoor et al.**
Moresino, F. *see* **Haurie, Alain et al., 2005b:93120**
Ng, Michael K. *see* **Ching, Wai Ki et al., 2005a:62185**
Nielsen, Morten[2] *see* **Gribonval, Rémi, 2005a:94016**
Nikov, Ventzislav *see* **Nikova, Svetla, (2005b:94001)**
Nikova, Svetla (*with* Nikov, Ventzislav) Improvement of the Delsarte bound for τ-designs in finite polynomial metric spaces. (English summary) (*see* **2005b:94001**)
Oishi, Yasuaki (*with* Kimura, Hidenori) Computational complexity of randomized algorithms for solving parameter-dependent linear matrix inequalities. (English summary)
Pang, Jong-Shi (*with* Leyffer, Sven) On the global minimization of the value-at-risk. (English summary) **2005e:91089**
Peng, Yi[2] *see* **Kou, Gang et al., 2005k:90060**
Podinovski, V. V. Selective convexity in DEA models. (English summary) **2005e:90066**
Prékopa, András (*with* Long, Jianmin; Szántai, Tamás) New bounds and approximations for the probability distribution of the length of the critical path. **2005b:90083**
Pucci de Farias, Daniela (*with* Van Roy, Benjamin) On constraint sampling in the linear programming approach to approximate dynamic programming. (English summary) **2005b:90149**
Ramaraj, E. *see* **Sakthivel, S.**
Ray, Subhash C. ★ Data envelopment analysis. **2005a:90003**
Raz, Danny *see* **Bartal, Yair et al., 2005j:68123**
Rohde, Jens Hierarchical supply chain planning using artificial neural networks to anticipate base-level outcomes. (English summary)
Saen, Reza Farzipoor (*with* Memariani, Azizollah; Hosseinzadeh Lotfi, F.) The effect of correlation coefficient among multiple input vectors on the efficiency mean in data envelopment analysis. (English summary)
— (*with* Memariani, Azizollah; Hosseinzadeh Lotfi, F.) Determining relative efficiency of slightly non-homogeneous decision making units by data envelopment analysis: a case study in IROST. (English summary)
Sakthivel, S. (*with* Ramaraj, E.) A new approach to solve linear fractional programming problems. (English summary)
San Pedro, Jocelyn C. A combined weight-update and aspiration-level interactive method for multiple objective linear programming. (English summary) **2005h:90127**
Savelsbergh, Martin W. P. (*with* Uma, R. N.; Wein, Joel) An experimental study of LP-based approximation algorithms for scheduling problems. (English summary)
(Seiford, Lawrence M.) *see* **Handbook: Data envelopment analysis, 2005f:90005**
Shi, Yong[1] *see* **Kou, Gang et al., 2005k:90060**
Sim, Chee-Khian (*with* Zhao, Gongyun) A note on treating a second order cone program as a special case of a semidefinite program. (English summary) **2005k:90102**
Szántai, Tamás *see* **Prékopa, András et al., 2005b:90083**
Tamiz, M. *see* **Foroughi, A. A. et al.**
Tkachenko, Alexandra I. The multiobjective transportation fractional programming model. (English summary)
Uma, R. N. *see* **Savelsbergh, Martin W. P. et al.**
Umemoto, Jun *see* **Avis, David, 2005b:90147**
Van Roy, Benjamin *see* **Pucci de Farias, Daniela, 2005b:90149** *and* **de Farias, D. P., 2005m:90146**
Vasil'ev, F. P. (*with* Ivanitskiĭ, A. Yu.) ★ Линейное программирование. (Russian) [Linear programming] **2005e:90001**
Vial, J.-Ph. *see* **Haurie, Alain et al., 2005b:93120**
Viswanadham, Nukala *see* **Gaonkar, Roshan**
Wang, Hsiao-Fan (*with* Wu, Kuang-Yao) Preference approach to fuzzy linear inequalities and optimizations. (English summary) **2005j:90116**
Wang, Jun *see* **Yan, Hong[2] et al., 2005m:90113**
(Wassermann, Alfred) *see* **Aardal, Karen**
Weber, Christian E. More on complementarity and substitutability in the transshipment problem. (English summary) **2005b:90070**
Wei, Quan Ling *see* **Yan, Hong[2] et al., 2005m:90113**
Wein, Joel *see* **Savelsbergh, Martin W. P. et al.**
Wise, Morgan *see* **Kou, Gang et al., 2005k:90060**
Wu, Kuang-Yao *see* **Wang, Hsiao-Fan, 2005j:90116**
Wu, Yan-Kuen (*with* Guu, Sy-Ming) Minimizing a linear function under a fuzzy max-min relational equation constraint. (English summary)
Xu, Jing Yi *see* **Ye, Bing Ru et al.**
Xu, Weixuan *see* **Kou, Gang et al., 2005k:90060**
Yan, Hong[2] (*with* Wei, Quan Ling; Wang, Jun) Constructing efficient solutions structure of multiobjective linear programming. (English summary) **2005m:90113**
Yan, Zi Zong (*with* Fei, Pu Sheng) Current equivalent facet algorithm for linear programming. (Chinese. English and Chinese summaries) **2005k:90072**
Yang, Kuo-Lung *see* **Chao, Henry Chung-Jen et al.**
Ye, Bing Ru (*with* Dong, Zeng Chuan; Xu, Jing Yi; Chen, Le Xiang; Ye, Yu Da) Multivalued solutions of linear programming and the way to find them. (Chinese. English and Chinese summaries)
Ye, Yu Da *see* **Ye, Bing Ru et al.**
Yuan, Yuan *see* **Huang, Hui et al.**
Zhao, Gongyun *see* **Sim, Chee-Khian, 2005k:90102**
(Zhu, Joe) *see* **Handbook: Data envelopment analysis, 2005f:90005**
Zhu, Nian Lei *see* **Feng, Xiang Qian et al.**
Zorkal'tsev, V. I. (*with* Filatov, A. Yu.) New versions of dual interior-point algorithms for systems of linear inequalities. (Russian. Russian summary) **2005k:65109**

Items listed otherwise than by author

Handbook:
Data envelopment analysis ★ Handbook on data envelopment analysis. **2005f:90005**

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Absil, P.-A. (*with* Sepulchre, Rodolphe) Continuous dynamical systems that realize discrete optimization on the hypercube. (English summary) **2005b:90075**
Adams, Warren P. (*with* Forrester, Richard J.; Glover, Fred W.) Comparisons and enhancement strategies for linearizing mixed 0-1 quadratic programs. (English summary) **2005h:90068**
Adel'shin, A. V. Investigation of maximum and minimum satisfiability problems using the L-partition. (Russian. Russian summary) **2005e:90068**
Ageev, A. A. (*with* Sviridenko, M. I.) Pipage rounding: a new method of constructing algorithms with proven performance guarantee. (English summary) **2005c:90048**
Aguilera, Néstor E. (*with* Bianchi, Silvia M.; Nasini, Graciela L.) Lift and project relaxations for the matching and related polytopes. (English summary) **2005b:90076**
Ahmadi, Samad (*with* Osman, Ibrahim H.) Density based problem space search for the capacitated clustering p-median problem. (English summary) **2005e:90069**
Alekperov, R. K. *see* **Alguliev, R. M. et al.**
Alguliev, R. M. (*with* Alyguliev, R. M.; Alekperov, R. K.) An approach to optimal task assignment in a distributed system. (Russian. English, Russian and Ukrainian summaries)
Al Sharif, S. S. *see* **Azaiez, M. N.**
Alyguliev, R. M. *see* **Alguliev, R. M. et al.**
Armstrong, Derek E. (*with* Jacobson, Sheldon H.) Polynomial transformations and data-independent neighborhood functions. (English summary) **2005e:90070**
Azaiez, M. N. (*with* Al Sharif, S. S.) A 0-1 goal programming model for nurse scheduling. (English summary)
Bianchi, Silvia M. *see* **Aguilera, Néstor E. et al., 2005b:90076**
Bienstock, Daniel (*with* Zuckerberg, Mark) Subset algebra lift operators for 0-1 integer programming. (English summary) **2005h:90069**
Billionnet, Alain Mixed integer programming for the 0-1 maximum probability model. (English summary) **2005d:90078**
— (*with* Soutif, Éric) An exact method based on Lagrangian decomposition for the 0 – 1 quadratic knapsack problem. (English summary) **2005b:90077**
Boros, Endre (*with* Lari, Isabella; Simeone, Bruno) Block linear majorants in quadratic 0-1 optimization. (English summary) **2005h:90070**
Bouchard, G. (*with* Girard, Stéphane; Yuditskiĭ, A. B.; Nazin, Alexander V.) Nonparametric estimation of the support boundary by linear programming. (Russian. Russian summary) **2005f:90069**
Boyer, Olivier *see* **Faye, Alain, 2005e:90071**
Chandramouli, A. B. (*with* Singh, Rajendra) An algorithm to minimize a submodular function. (English summary)
Chaovalitwongse, Wanpracha (*with* Pardalos, Panos M.; Prokopyev, Oleg Alexan) A new linearization technique for multi-quadratic 0-1 programming problems. (English summary) **2005d:90079**
Darby-Dowman, K. *see* **Nwana, V. et al.**
Emelichev, Vladimir A. (*with* Kuz'min, K. G.) Analysis of the stability of a strictly efficient solution of a vector problem of Boolean programming in the metric l_1. (Russian. Russian summary) **2005k:90073**
Fan, Xiu Bin *see* **Hong, Jie et al.**
Fang, Gang *see* **Hong, Jie et al.**
de Farias, Ismael R., Jr. *see* **Richard, Jean-Philippe P. et al., 2005a:90106** *and* **(2005a:90006)**
Faye, Alain (*with* Boyer, Olivier) Construction de facettes pour le polytope du sac-à-dos quadratique en 0-1. (English and French summaries) [Constructing the facets of the quadratic 0-1 knapsack polytope] **2005e:90071**
Forrester, Richard J. *see* **Adams, Warren P. et al., 2005h:90068**
Gao, Cheng Xiu *see* **Wang, Cen**
Girard, Stéphane *see* **Bouchard, G. et al., 2005f:90069**
Glover, Fred W. *see* **Hvattum, Lars M. et al., 2005c:90049**; **Adams, Warren P. et al., 2005h:90068** *and* **Løkketangen, Arne, (2005h:90007)**
Hong, Jie (*with* Fan, Xiu Bin; Fang, Gang; Lu, Xiao Feng) Continuous optimization of Boolean functions. (Chinese. English and Chinese summaries)
Hsieh, Yi-Chih A two-phase linear programming approach for redundancy allocation problems. (English summary)
Hvattum, Lars M. (*with* Løkketangen, Arne; Glover, Fred W.) Adaptive memory search for Boolean optimization problems. (English summary) **2005c:90049**
Jacobson, Sheldon H. *see* **Armstrong, Derek E., 2005e:90070**

Ji, Xiao-Hui (*with* Zhang, Jian[1]) Solving Boolean combinations of nonlinear numerical - constraints. (English and Chinese summaries)
Kim, Youngjin[2] *see* **Sherali, Hanif D. et al., 2005k:90074**
Kubiak, Wieslaw Minimization of ordered, symmetric half-products. (English summary) **2005h:90071**
Kuz'min, K. G. *see* **Emelichev, Vladimir A., 2005k:90073**
Lari, Isabella *see* **Boros, Endre et al., 2005h:90070**
Lee, Youngho *see* **Sherali, Hanif D. et al., 2005k:90074**
Lodi, Andrea (*with* Martello, Silvano; Vigo, Daniele) Models and bounds for two-dimensional level packing problems. (English summary) **2005f:90070**
Løkketangen, Arne (*with* Glover, Fred W.) Adaptive memory search guidance for satisfiability problems. (English summary) (*see* **2005h:90007**)
— *see also* **Hvattum, Lars M. et al., 2005c:90049**
Lu, Xiao Feng *see* **Hong, Jie et al.**
Manquinho, Vasco M. (*with* Marques-Silva, João P.) Satisfiability-based algorithms for Boolean optimization. (English summary) **2005f:90071**
Marques-Silva, João P. *see* **Manquinho, Vasco M., 2005f:90071**
Martello, Silvano *see* **Lodi, Andrea et al., 2005f:90070**
Mitra, Gautam *see* **Nwana, V. et al.**
Nagih, Anass *see* **Thiongane, Babacar et al., 2005c:90050**
Nasini, Graciela L. *see* **Aguilera, Néstor E. et al., 2005b:90076**
Nazin, Alexander V. *see* **Bouchard, G. et al., 2005f:90069**
Nemhauser, George L. *see* **Richard, Jean-Philippe P. et al., 2005a:90106** *and* **(2005a:90006)**
Nwana, V. (*with* Darby-Dowman, K.; Mitra, Gautam) A co-operative parallel heuristic for mixed zero-one linear programming: combining simulated annealing with branch and bound. (English summary)
Osman, Ibrahim H. *see* **Ahmadi, Samad, 2005e:90069**
Palubeckis, Gintaras Multistart tabu search strategies for the unconstrained binary quadratic optimization problem. (English summary) **2005e:90072**
Pardalos, Panos M. *see* **Chaovalitwongse, Wanpracha et al., 2005d:90079**
Pınar, Mustafa Ç. A note on robust $0-1$ optimization with uncertain cost coefficients. (English summary) **2005i:90035**
Plateau, Gérard *see* **Thiongane, Babacar et al., 2005c:90050**
Prestwich, Steven Incomplete dynamic backtracking for linear pseudo-Boolean problems. (English summary)
Prokopyev, Oleg Alexan *see* **Chaovalitwongse, Wanpracha et al., 2005d:90079**
Prügel-Bennett, Adam When a genetic algorithm outperforms hill-climbing. (English summary) **2005a:90105**
Richard, Jean-Philippe P. (*with* de Farias, Ismael R., Jr.; Nemhauser, George L.) Lifted inequalities for 0-1 mixed integer programming: basic theory and algorithms. (English summary) (*see* **2005a:90006**)
— (*with* de Farias, Ismael R., Jr.; Nemhauser, George L.) Lifted inequalities for 0-1 mixed integer programming: basic theory and algorithms. (English summary) **2005a:90106**
Sepulchre, Rodolphe *see* **Absil, P.-A., 2005b:90075**
Sherali, Hanif D. (*with* Lee, Youngho; Kim, Youngjin[2]) Partial convexification cuts for 0-1 mixed-integer programs. (English summary) **2005k:90074**
Simeone, Bruno *see* **Boros, Endre et al., 2005h:90070**
Singh, Rajendra *see* **Chandramouli, A. B.**
Soutif, Éric *see* **Billionnet, Alain, 2005b:90077**
Storch, Tobias (*with* Wegener, Ingo) Real royal road functions for constant population size. (English summary) **2005a:90107**
Sviridenko, M. I. *see* **Ageev, A. A., 2005c:90048**
Thiongane, Babacar (*with* Nagih, Anass; Plateau, Gérard) Analyse de sensibilité pour les problèmes linéaires en variables 0-1. (English and French summaries) [Sensitivity analysis for 0-1 linear programming problems] **2005c:90050**
Vasquez, Michel (*with* Vimont, Yannick) Improved results on the 0-1 multidimensional knapsack problem. (English summary) **2005m:90064**
Vigo, Daniele *see* **Lodi, Andrea et al., 2005f:90070**
Vimont, Yannick *see* **Vasquez, Michel, 2005m:90064**
Wang, Cen (*with* Gao, Cheng Xiu) Recovery of the 0-1 knapsack problem from disruption in investment decision. (Chinese. English and Chinese summaries)
Wegener, Ingo *see* **Storch, Tobias, 2005a:90107**
Xing, Zhao (*with* Zhang, Weixiong) MaxSolver: an efficient exact algorithm for (weighted) maximum satisfiability. (English summary) **2005k:90075**
Yuditskiĭ, A. B. *see* **Bouchard, G. et al., 2005f:90069**
Zhang, Jian[1] *see* **Ji, Xiao-Hui**
Zhang, Weixiong *see* **Xing, Zhao, 2005k:90075**
Zuckerberg, Mark *see* **Bienstock, Daniel, 2005h:90069**

Items with secondary classifications in 90C09

Anjos, Miguel F. On semidefinite programming relaxations for the satisfiabilty problem. (English summary) **2005h:90086**
Anstreicher, Kurt M. *see* **Brixius, Nathan W., (2005b:90009)**
Arvind, V. (*with* Schuler, Rainer) The quantum query complexity of 0-1 knapsack and associated claw problems. (English summary) **2005e:68058**
Avidor, Adi (*with* Zwick, Uri) Approximating MIN 2-SAT and MIN 3-SAT. (English summary) **2005m:68248**
Babu, Pascal (*with* Péridy, Laurent; Pinson, Eric) A branch and bound algorithm to minimize total weighted tardiness on a single processor. (English summary) **2005c:90024**
Bampis, Evripidis (*with* Giroudeau, R.; Kononov, Aleksandr Veniaminovich) Scheduling tasks with small communication delays for clusters of processors. (English summary) **2005c:90025**
Bektas, Tolga *see* **Kara, Imdat et al., 2005d:90131**
Bertel, S. (*with* Billaut, Jean-Charles) A genetic algorithm for an industrial multiprocessor flow shop scheduling problem with recirculation. (English summary)
Bertsimas, Dimitris (*with* Natarajan, Karthik; Teo, Chung-Piaw) Probabilistic combinatorial optimization: moments, semidefinite programming and asymptotic bounds. (English summary) **2005k:90099**
Billaut, Jean-Charles *see* **Bertel, S.**
Boros, Endre (*with* Menkov, Vladimir) Exact and approximate discrete optimization algorithms for finding useful disjunctions of categorical predicates in data analysis. (English summary) **2005e:68206**
Bousoño-Calzón, Carlos *see* **Salcedo-Sanz, Sancho, 2005k:90127**
Brixius, Nathan W. (*with* Anstreicher, Kurt M.) The Steinberg wiring problem. (*see* **2005b:90009**)
Carney, Paul R. *see* **Pardalos, Panos M. et al., 2005f:92011**
Chaovalitwongse, Wanpracha *see* **Pardalos, Panos M. et al., 2005f:92011**
Chiyoshi, Fernando Y. *see* **Galvão, Roberto D. et al.**
Crama, Yves (*with* Pascual J., R.; Torres, Andrea) Optimal procurement decisions in the presence of total quantity discounts and alternative product recipes. (English summary) **2005b:90015**
Dichkovskaya, S. A. *see* **Kravtsov, M. K., 2005k:90137**
Foldes, Stephan (*with* Hammer, Peter L.) Disjunctive analogues of submodular and supermodular pseudo-Boolean functions. (English summary) **2005f:06015**
Fujito, Toshihiro On combinatorial approximation of covering 0-1 integer programs and partial set cover. (English summary) **2005k:90225**
Galvão, Roberto D. (*with* Chiyoshi, Fernando Y.; Morabito, Reinaldo) Towards unified formulations and extensions of two classical probabilistic location models. (English summary)
Giroudeau, R. *see* **Bampis, Evripidis et al., 2005c:90025**
Hammer, Peter L. (*with* Kogan, Alexander[1]; Simeone, Bruno; Szedmák, Sándor) Pareto-optimal patterns in logical analysis of data. (English summary) **2005e:62006**
— *see also* **Foldes, Stephan, 2005f:06015**
Hernández-Pérez, Hipólito (*with* Salazar González, Juan José) A branch-and-cut algorithm for a traveling salesman problem with pickup and delivery. (English summary) **2005k:90189**
Hosseinzadeh Lotfi, F. *see* **Jahanshahloo, Gholamreza et al., 2005h:90118**
Huang, Hong-Xuan *see* **Prokopyev, Oleg Alexan et al., 2005h:90175**
Iasemidis, Leonidas D. *see* **Pardalos, Panos M. et al., 2005f:92011**
Jahanshahloo, Gholamreza (*with* Hosseinzadeh Lotfi, F.; Shoja, N.; Tohidi, G.) A method for generating all the efficient solutions of a 0-1 multi-objective linear programming problem. (English summary) **2005h:90118**
Janiak, Adam (*with* Kovalëv, M. Ya.; Kubiak, Wieslaw; Werner, Frank) Positive half-products and scheduling with controllable processing times. (English summary) **2005m:90036**
Kara, Imdat (*with* Laporte, Gilbert; Bektas, Tolga) A note on the lifted Miller-Tucker-Zemlin subtour elimination constraints for the capacitated vehicle routing problem. (English summary) **2005d:90131**
Katagiri, Hideki (*with* Sakawa, Masatoshi; Kato, Kosuke; Nishizaki, Ichiro) A fuzzy random multiobjective 0-1 programming based on the expectation optimization model using possibility and necessity measures. (English summary) **2005e:90170**
Kato, Kosuke *see* **Katagiri, Hideki et al., 2005e:90170**
de Klerk, Etienne (*with* Pasechnik, Dmitrii V.; Warners, J. P.) On approximate graph colouring and MAX-k-CUT algorithms based on the ϑ-function. (English summary) **2005h:68184**
Kogan, Alexander[1] *see* **Hammer, Peter L. et al., 2005e:62006**
Kononov, Aleksandr Veniaminovich *see* **Bampis, Evripidis et al., 2005c:90025**
Kovalëv, M. Ya. *see* **Janiak, Adam et al., 2005m:90036**
Kravtsov, M. K. (*with* Dichkovskaya, S. A.) An asymptotic approach to the solution of a multi-criteria three-index planar choice problem. (Russian. English and Ukrainian summaries) **2005k:90137**
Kubiak, Wieslaw *see* **Janiak, Adam et al., 2005m:90036**
Laber, Eduardo Sany (*with* Parekh, Ojas; Ravi, Ramamoorthi) Randomized approximation algorithms for query optimization problems on two processors. (English summary) (*see* **2005c:68002**)
Laporte, Gilbert *see* **Kara, Imdat et al., 2005d:90131**
Mansini, Renata (*with* Pferschy, Ulrich) Securitization of financial assets: approximation in theory and practice. (English summary) **2005e:91088**
Menkov, Vladimir *see* **Boros, Endre, 2005e:68206**
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Natarajan, Karthik *see* **Bertsimas, Dimitris et al., 2005k:90099**
Nishizaki, Ichiro *see* **Katagiri, Hideki et al., 2005e:90170**
Pardalos, Panos M. (*with* Chaovalitwongse, Wanpracha; Iasemidis, Leonidas D.; Sackellares, J. Chris; Shiau, Deng-Shan; Carney, Paul R.; Prokopyev, Oleg Alexan; Yatsenko, V. A.) Seizure warning algorithm based on optimization and nonlinear dynamics. (English summary) **2005f:92011**
— *see also* **Prokopyev, Oleg Alexan et al., 2005d:68054** *and* **2005h:90175**
Parekh, Ojas *see* **Laber, Eduardo Sany et al., (2005c:68002)**
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Pasechnik, Dmitrii V. *see* **de Klerk, Etienne et al., 2005h:68184**
Péridy, Laurent *see* **Babu, Pascal et al., 2005c:90024**
Pferschy, Ulrich *see* **Mansini, Renata, 2005e:91088**
Pınar, Mustafa Ç. Sufficient global optimality conditions for bivalent quadratic optimization. (English summary) **2005f:90080**
Pinson, Eric *see* **Babu, Pascal et al., 2005c:90024**
Prokopyev, Oleg Alexan (*with* Pardalos, Panos M.) On approximability of Boolean formula minimization. (English summary) **2005d:68054**
— (*with* Huang, Hong-Xuan; Pardalos, Panos M.) On complexity of unconstrained hyperbolic 0-1 programming problems. (English summary) **2005h:90175**
— *see also* **Pardalos, Panos M. et al., 2005f:92011**
Ravi, Ramamoorthi *see* **Laber, Eduardo Sany et al., (2005c:68002)**
Sackellares, J. Chris *see* **Pardalos, Panos M. et al., 2005f:92011**
Sakawa, Masatoshi *see* **Katagiri, Hideki et al., 2005e:90170**
Salazar González, Juan José *see* **Hernández-Pérez, Hipólito, 2005k:90189**
Salcedo-Sanz, Sancho (*with* Bousoño-Calzón, Carlos) A portable and scalable algorithm for a class of constrained combinatorial optimization problems. (English summary) **2005k:90127**
Schuler, Rainer *see* **Arvind, V., 2005e:68058**
Serna, Maria José (*with* Trevisan, Luca; Xhafa, Fatos) The approximability of non-Boolean satisfiability problems and restricted integer programming. (English summary)

2005j:68131
Shiau, Deng-Shan *see* **Pardalos, Panos M. et al., 2005f:92011**
Shoja, N. *see* **Jahanshahloo, Gholamreza et al., 2005h:90118**
Simeone, Bruno *see* **Hammer, Peter L. et al., 2005e:62006**
Sun, Huan Chun (*with* Wang, Yue Fang) Graphical operating method of relative difference for solving some special discrete linear programming problems in operational research. (Chinese. English and Chinese summaries)
Szedmák, Sándor *see* **Hammer, Peter L. et al., 2005e:62006**
Teo, Chung-Piaw *see* **Bertsimas, Dimitris et al., 2005k:90099**
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Yatsenko, V. A. *see* **Pardalos, Panos M. et al., 2005f:92011**
Zhukov, D. A. On the computation of partial Boolean functions by cellular schemes. (Russian. Russian summary) **2005f:94180**
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Aardal, Karen (*with* Lenstra, Arjen K.) Hard equality constrained integer knapsacks. (English summary) (*see* **2005a:90006**)
— Lattice basis reduction in optimization: selected topics. (English summary) **2005g:90084**
— Comments on the paper: "Attacking the market split problem with lattice point enumeration" [J. Comb. Optim. **6** (2002), no. 1, 5–16; MR1880728 (2002m:90047)] by A. Wassermann. (English summary)
— (*with* Lenstra, Arjen K.) Hard equality constrained integer knapsacks. (English summary) **2005g:90085**
Alam, Teg (*with* Bari, Abdul) A heuristic approach for solving multi objective linear integer programming problem. (English summary)
Alidaee, Bahram *see* **Lewis, Mark W. et al.**
Asratyan, A. S. (*with* Kuzyurin, N. N.) Analysis of the accuracy of randomized rounding for integer linear programming problems. (Russian. Russian summary) **2005m:90065**
Bai, Fu-sheng *see* **Zhang, Lian Sheng, 2005g:90087**
Bari, Abdul *see* **Alam, Teg**
Barnes, Earl R. *see* **Strickland, Dawn M. et al.**
Beier, René (*with* Vöcking, Berthold) Typical properties of winners and losers in discrete optimization. (English summary) **2005j:90047**
Benati, Stefano The computation of the worst conditional expectation. (English summary) **2005k:90076**
Bhargava, Shifali (*with* Sharma, Kailash Chandra) A relaxed projection method for general integer quadratic knapsack problem. (English summary)
Bienstock, Daniel (*with* Ozbay, Nuri) Tree-width and the Sherali-Adams operator. (English summary) **2005j:90048**
Boros, Endre (*with* Elbassioni, Khaled M.; Gurvich, Vladimir; Khachiyan, Leonid; Makino, Kazuhisa) On generating all minimal integer solutions for a monotone system of linear inequalities. (English summary) (*see* **2005a:68007**)
Bosch, Robert (*with* Trick, Michael A.) Constraint programming and hybrid formulations for three life designs. (English summary)
Boschetti, Marco A. (*with* Mingozzi, Aristide) The two-dimensional finite bin packing problem. I. New lower bounds for the oriented case. (English summary) **2005k:90077**
— (*with* Mingozzi, Aristide) The two-dimensional finite bin packing problem. II. New lower and upper bounds. (English summary) **2005k:90078**
Bussieck, Michael R. (*with* Lindner, Thomas; Lübbecke, Marco E.) A fast algorithm for near cost optimal line plans. (English summary) **2005a:90108**
Caprara, Alberto (*with* Lodi, Andrea; Monaci, Michele) An approximation scheme for the two-stage, two-dimensional bin packing problem. (English summary) (*see* **2005a:90006**)
Chen, Zhi Ping (*with* Li, Nai Cheng; Xi, Feng) A new branch and bound algorithm for solving comlex integer quadratic programming problems. (Chinese. English and Chinese summaries)
— (*with* Xi, Feng) A new branch-and-bound algorithm for solving large-scale complex integer convex quadratic programming problems. (Chinese. English and Chinese summaries) **2005k:90079**
De Loera, Jesús A. (*with* Haws, David; Hemmecke, Raymond; Huggins, P.; Yoshida, Ruriko) Three kinds of integer programming algorithms based on Barvinok's rational functions. (English summary) **2005m:90066**
De Meneses, Cláudio N. (*with* Lu, Zhaosong; Oliveira, Carlos A. S.; Pardalos, Panos M.) Optimal solutions for the closest-string problem via integer programming. (English summary) **2005g:90086**
Devyaterikova, M. V. (*with* Kolokolov, A. A.) On the stability of some integer programming algorithms. (Russian) **2005d:90080**
— (*with* Kolokolov, A. A.) Analysis of the stability of some discrete optimization algorithms. (Russian. Russian summary) **2005e:90073**
Eisenbrand, Friedrich (*with* Laue, Sören) A faster algorithm for two-variable integer programming. (English summary) **2005d:90082**
— Fast integer programming in fixed dimension. (English summary) **2005d:90081**
— (*with* Laue, Sören) A linear algorithm for integer programming in the plane. (English summary) **2005k:90080**
Elbassioni, Khaled M. *see* **Boros, Endre et al., (2005a:68007)**
Elhedhli, Samir Ranking lower bounds for the bin-packing problem. (English summary)
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Gao, Pei Wang (*with* Feng, Quan Xi) Combining a cutting-bound method and the integral branch principle for solving integer linear programming. (Chinese. English and Chinese summaries)
Gentile, Claudio (*with* Haus, Utz-Uwe; Köppe, Matthias; Rinaldi, Giovanni; Weismantel, Robert) On the way to perfection: primal operations for stable sets in graphs. (English summary) **2005c:90051**
Glover, Fred W. Adaptive memory projection methods for integer programming. (English summary) (*see* **2005h:90007**)
— (*with* Sherali, Hanif D.) Chvatal-Gomory-tier cuts for general integer programs. (English summary) **2005m:90067**
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Hasankhani, A. *see* **Hosseinyazdi, M. et al.**
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He, Jing[2] *see* **Shi, Yong[1] et al., 2005k:90083**
Hemmecke, Raymond *see* **De Loera, Jesús A. et al., 2005m:90066**
Hosseinyazdi, M. (*with* Hasankhani, A.; Mashinchi, Mashallah) Optimization over pseudo-Boolean lattices. (English summary)
Huggins, P. *see* **De Loera, Jesús A. et al., 2005m:90066**
Kang, Jangha (*with* Park, Kyungchul; Park, Sungsoo) ATM VP-based network design. (English summary) **2005a:90109**
Kartak, V. M. Sufficient conditions for the nonsatisfiability of the integer rounding property for the linear cutting problem. (Russian. Russian summary) **2005e:90075**
Khachiyan, Leonid *see* **Boros, Endre et al., (2005a:68007)**
Klabjan, Diego A new subadditive approach to integer programming. (English summary) (*see* **2005a:90006**)
— A practical algorithm for computing a subadditive dual function for set partitioning. (English summary) **2005f:90072**
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Kolliopoulos, Stavros G. (*with* Stein, Clifford) Approximating disjoint-path problems using packing integer programs. (English summary) **2005f:90073**
Kolokolov, A. A. *see* **Devyaterikova, M. V., 2005d:90080** *and* **2005e:90073**
Köppe, Matthias (*with* Louveaux, Quentin; Weismantel, Robert; Wolsey, Laurence A.) Extended formulations for Gomory corner polyhedra. (English summary) **2005k:90081**
— *see also* **Gentile, Claudio et al., 2005c:90051**
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Labbé, Martine (*with* Laporte, Gilbert; Rodríguez Martín, Inmaculada; Salazar González, Juan José) Locating median cycles in networks. (English summary)
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— A discrete Farkas lemma. (English summary) **2005h:90073**
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Leonovich, A. M. *see* **Emelichev, Vladimir A. et al., 2005d:90083**
Letchford, Adam N. (*with* Lodi, Andrea) Polynomial-time separation of simple comb inequalities. (English summary) (*see* **2005a:90006**)
Lewis, Mark W. (*with* Alidaee, Bahram; Kochenberger, Gary A.) Using xQx to model and solve the uncapacitated task allocation problem. (English summary)
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Lübbecke, Marco E. *see* **Bussieck, Michael R. et al., 2005a:90108**
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Makino, Kazuhisa *see* **Boros, Endre et al., (2005a:68007)**
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Mashinchi, Mashallah *see* **Hosseinyazdi, M. et al.**
Milanov, Peter (*with* Trenchev, Ivan; Pencheva, Nevena) Explicit description of the set of all theoretical genetic codes. (English summary)
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— On steepest descent algorithms for discrete convex functions. (English summary) **2005c:90053**
— (*with* Saito, Hiroo; Weismantel, Robert) Optimality criterion for a class of nonlinear integer programs. (English summary) **2005b:90079**
Nakagawa, Yuji An improved surrogate constraints method for separable nonlinear integer programming. (English summary) **2005a:90110**
Ng, Chi-Kong (*with* Zhang, Lian Sheng; Li, Duan; Tian, Wei Wen) Discrete filled function method for discrete global optimization. (English summary) **2005k:90082**
Oliveira, Carlos A. S. *see* **De Meneses, Cláudio N. et al., 2005g:90086**
Ong, Hoon Liong *see* **Zhang, Cai Wen, 2005b:90074**
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Saito, Hiroo *see* **Murota, Kazuo et al., 2005b:90079**
Salazar González, Juan José *see* **Labbé, Martine et al.**
Sergienko, Ivan V. (*with* Shilo, V. P.; Roshchin, V. A.) Parallelization of the optimization process for discrete programming problems. (Russian. English and Ukrainian summaries)
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Sherali, Hanif D. *see* **Glover, Fred W., 2005m:90067**
Shi, Yong[1] (*with* He, Jing[2]; Wang, Lei; Fan, Wei) Computer-based algorithms for multiple criteria and multiple constraint level integer linear programming. (English summary) **2005k:90083**
Shilo, V. P. *see* **Sergienko, Ivan V. et al.**
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Stein, Clifford *see* **Kolliopoulos, Stavros G., 2005f:90073**
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Wang, Lei *see* **Shi, Yong[1] et al., 2005k:90083**
Wang, Wei[9] (*with* Xu, Yi Fan) An asymptotic strong duality method for integer programming. (Chinese. English and Chinese summaries) **2005f:90075**
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Weismantel, Robert *see* **Murota, Kazuo et al., 2005b:90079**; **Gentile, Claudio et al., 2005c:90051** *and* **Köppe, Matthias et al., 2005k:90081**
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Yan, Zi Zong (*with* Fei, Pu Sheng) Gene reorganization algorithm for TSP. (Chinese. English and Chinese summaries)
Yoshida, Ruriko *see* **De Loera, Jesús A. et al., 2005m:90066**
Zhang, Cai Wen (*with* Ong, Hoon Liong) Solving the biobjective zero-one knapsack problem by an efficient LP-based heuristic. (English summary) **2005h:90074**
Zhang, Lian Sheng (*with* Bai, Fu-sheng) Asymptotic strong nonlinear duality for bounded integer programming. (Chinese. English and Chinese summaries) **2005g:90087**
— *see also* **Ng, Chi-Kong et al., 2005k:90082** *and* **Shang, You-lin, 2005m:90068**
Zolotykh, N. Yu. On the complexity of the solution of a class of integer linear programming problems. (Russian. Russian summary) **2005e:90077**
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Items listed otherwise than by author

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Items with secondary classifications in 90C10

Abdellha, M. H. *see* **Mahdy, Y. B. et al., 2005f:68013**
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Ageev, A. A. Algorithms with improved estimates for accuracy for the set covering problem. (Russian. Russian summary) **2005g:90109**
Ahmed, Shabbir[1] (*with* Tawarmalani, Mohit; Sahinidis, Nikolaos V.) A finite branch-and-bound algorithm for two-stage stochastic integer programs. (English summary) **2005a:90112**
Ahuja, Ravindra K. (*with* Liu, Jian; Orlin, James B.; Goodstein, Jon; Mukherjee, Amit) A neighborhood search algorithm for the combined through and fleet assignment model with time windows. (English summary)
Alrefaei, Mahmoud H. (*with* Andradóttir, Sigrún) Discrete stochastic optimization using variants of the stochastic ruler method. (English summary) **2005k:90086**
Amiri, Ali The selection and scheduling of telecommunication calls with time windows. (English summary)
Andonov, Rumen (*with* Balev, Stefan; Yanev, Nikolaĭ I.) Protein threading: from mathematical models to parallel implementations. (English summary) **2005g:92014**
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Archer, Aaron (*with* Rajagopalan, Ranjithkumar; Shmoys, David B.) Lagrangian relaxation for the k-median problem: new insights and continuity properties. (English summary) **2005d:90063**
Askin, Ronald G. *see* **Kurz, Mary E., 2005a:90069**
Baldacci, Roberto (*with* Hadjiconstantinou, E.; Mingozzi, Aristide) An exact algorithm for the capacitated vehicle routing problem based on a two-commodity network flow formulation. (English summary)
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- partition-based interactive algorithm for solving multicriteria linear integer programming problems. (English and Bulgarian summaries)

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Integer programming and combinatorial optimization ★ Integer programming and combinatorial optimization. **2005a:90006**

—★ Integer programming and combinatorial optimization. **2005m:90001**

Lecture Notes in Computer Science ★ Integer programming and combinatorial optimization. **2005a:90006**

—★ Integer programming and combinatorial optimization. **2005m:90001**

New York ★ Integer programming and combinatorial optimization. **2005m:90001**

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Beaumont, Nicholas Solving a mixed integer program by fathoming dual programs. (English summary)

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Rousseau, Louis-Martin (*with* Gendreau, Michel; Pesant, Gilles; Focacci, Filippo) Solving VRPTWs with constraint programming based column generation. (English summary) **2005f:90076**

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Schittkowski, Klaus *see* **van de Braak, Georg et al.**

Schmieta, Stefan *see* **Balas, Egon et al., 2005i:90036**

Sen, Suvrajeet (*with* Higle, Julia L.; Ntaimo, Lewis) A summary and illustration of disjunctive decomposition with set convexification. (English summary) **2005h:90076**

Sueyoshi, Toshiyuki (*with* Hwang, Shiuh-Nan) A use of nonparametric tests for DEA-discriminant analysis: a methodological comparison. (English summary)

Van Vyve, Mathieu The continuous mixing polyhedron. (English summary) **2005m:90069**

Wallace, Christopher Dewagne *see* **Balas, Egon et al., 2005i:90036**

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Ye, Rong *see* **Zhang, Le-Wei et al.**

Zhang, Le-Wei (*with* Ye, Rong; Huang, Shell-Ying; Hsu, Wen-Jing) Mixed integer programming models for dispatching vehicles at a container terminal. (English summary)

Items with secondary classifications in 90C11

Abdul-Jalbar, B. *see* **Sedeño-Noda, Antonio et al., 2005d:90010**

Abramson, Mark A. Mixed variable optimization of a load-bearing thermal insulation system using a filter pattern search algorithm. (English summary)

Adem, Jan (*with* Gochet, Willy) Aggregating classifiers with mathematical programming. (English summary)

Ahmad, Izhar (*with* Husain, Z.) On nondifferentiable second order symmetric duality in mathematical programming. (English summary) **2005c:90084**

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Billionnet, Alain Mixed integer programming for the 0-1 maximum probability model. (English summary) **2005d:90078**

Bollapragada, Srinivas (*with* Bussieck, Michael R.; Mallik, Suman) Scheduling commercial videotapes in broadcast television. (English summary)

Bussieck, Michael R. *see* **Bollapragada, Srinivas et al.**

Chabrier, Alain (*with* Danna, Emilie; Le Pape, Claude; Perron, Laurent) Solving a network design problem. (English summary)

Chang, Ching-Ter On the mixed binary goal programming problems. (English summary) **2005e:90049**

Chaovalitwongse, Wanpracha (*with* Pardalos, Panos M.; Prokopyev, Oleg Alexan) A new linearization technique for multi-quadratic 0-1 programming problems. (English summary) **2005d:90079**

Crama, Yves (*with* Pascual J., R.; Torres, Andrea) Optimal procurement decisions in the presence of total quantity discounts and alternative product recipes. (English summary) **2005b:90015**

Danna, Emilie *see* **Chabrier, Alain et al.**

De Loera, Jesús A. (*with* Haws, David; Hemmecke, Raymond; Huggins, P.; Yoshida, Ruriko) Three kinds of integer programming algorithms based on Barvinok's rational functions. (English summary) **2005m:90066**

Dempe, Stephan (*with* Kalashnikov, Vyacheslav Vital'evich) A mixed-discrete bilevel programming problem. (English summary) **2005e:91042**

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Fampa, M. H. C. (*with* Klein, Sulamita; Protti, Fábio; Rêgo, D. C. A.) Optimal grid representations. (English summary) **2005h:05140**

— (*with* Maculan, Nelson) Using a conic formulation for finding Steiner minimal trees. (English summary) **2005e:90097**

de Farias, Ismael R., Jr. *see* **Richard, Jean-Philippe P. et al., 2005a:90106** *and* **(2005a:90006)**

Fasano, Giorgio A MIP approach for some practical packing problems: balancing constraints and tetris-like items. (English summary) **2005f:90173**

Fremuth-Paeger, Christian (*with* Hefele, Andreas; Jungnickel, Dieter; Leclerc, Matthias) MIP optimization of the lithium logistics problem. (English summary)

Gerdts, Matthias Solving mixed-integer optimal control problems by branch&bound: a case study from automobile test-driving with gear shift. (English summary) **2005h:49080**

Gil', N. I. *see* **Stoyan, Yu. G. et al., 2005k:90223**

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Golbasi, Hakan *see* **Wu, S. David, 2005h:90012**

Gröwe-Kuska, Nicole (*with* Kiwiel, Krzysztof C.; Nowak, Matthias P.; Römisch, Werner; Wegner, Isabel) Power management in a hydro-thermal system under uncertainty by Lagrangian relaxation. (English summary) **2005c:90058**

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Leung, Janny M. Y. (*with* Zhang, Guoqing; Yang, Xiao Guang; Mak, Raymond; Lam, Kokin) Optimal cyclic multi-hoist scheduling: a mixed integer programming approach. (English summary)
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Podinovski, V. V. Selective convexity in DEA models. (English summary) **2005e:90066**
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Rêgo, D. C. A. *see* **Fampa, M. H. C. et al., 2005h:05140**
Richard, Jean-Philippe P. (*with* de Farias, Ismael R., Jr.; Nemhauser, George L.) Lifted inequalities for 0-1 mixed integer programming: basic theory and algorithms. (English summary) (*see* **2005a:90006**)
— (*with* de Farias, Ismael R., Jr.; Nemhauser, George L.) Lifted inequalities for 0-1 mixed integer programming: basic theory and algorithms. (English summary) **2005a:90106**
Roll, Jacob (*with* Bemporad, Alberto; Ljung, Lennart) Identification of piecewise affine systems via mixed-integer programming. (English summary) **2005m:93040**
Römisch, Werner *see* **Gröwe-Kuska, Nicole et al., 2005c:90058**
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Sherali, Hanif D. (*with* Lee, Youngho; Kim, Youngjin[2]) Partial convexification cuts for 0-1 mixed-integer programs. (English summary) **2005k:90074**
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Stoyan, Yu. G. (*with* Gil′, N. I.; Scheithauer, Guntram; Pankratov, A. V.; Magdalina, I.) Packing of convex polytopes into a parallelepiped. (English summary) **2005k:90223**
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Zioutas, Georgios Quadratic mixed integer programming models in minimax robust regression estimators. (English summary) (*see* **2005c:62006**)
— (*with* Avramidis, Antonios) Deleting outliers in robust regression with mixed integer programming. (English summary)

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Abaffy, Jozsef (*with* Allevi, E.) A modified L-shaped method. (English summary) **2005i:90039**
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— *see also* **Shapiro, Alexander, 2005i:90040** *and* **Santoso, Tjendera et al.**
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— (*with* Andradóttir, Sigrún) Discrete stochastic optimization using variants of the stochastic ruler method. (English summary) **2005k:90086**
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Beraldi, Patrizia (*with* Ruszczyński, Andrzej) Beam search heuristic to solve stochastic integer problems under probabilistic constraints. (English summary)
Boros, Endre (*with* Elbassioni, Khaled M.; Gurvich, Vladimir; Khachiyan, Leonid; Makino, Kazuhisa) An intersection inequality for discrete distributions and related generation problems. (English summary) (*see* **2005b:68008**)
Bulger, D. W. (*with* Alexander, D. L. J.; Baritompa, W. P.; Wood, Graham R.; Zabinsky, Zelda B.) Expected hitting times for backtracking adaptive search. (English summary) **2005c:90056**
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Charles, V. (*with* Dutta, Debashis) A method for solving linear stochastic fractional programming problem with mixed constraints. (English summary)
Chen, Shih-Pin An alternating variable method with varying replications for simulation response optimization. (English summary)
Chen, Xiao Jun[1] *see* **Ling, Chen et al., 2005m:90074**
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van Delft, Ch. (*with* Vial, J.-Ph.) A practical implementation of stochastic programming: an application to the evaluation of option contracts in supply chains. (English summary)
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— (*with* Römisch, Werner) Duality gaps in nonconvex stochastic optimization. (English summary) **2005f:90078**
— (*with* Ruszczyński, Andrzej) Semi-infinite probabilistic optimization: first-order stochastic dominance constraints. (English summary) **2005h:90078**
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He, Zhi Yong (*with* Huang, Chong Chao) Genetic algorithm based on simulation for two-stage stochastic programming. (Chinese. English and Chinese summaries)
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— (*with* Koivu, Matti) Epi-convergent discretizations of stochastic programs via integration quadratures. (English summary) **2005k:90094**
Perkgoz, C. (*with* Kato, Kosuke; Katagiri, Hideki; Sakawa, Masatoshi) An interactive fuzzy satisficing method for multiobjective stochastic integer programming problems through variance minimization model. (English summary)
Pflug, Georg Ch. (*with* Halada, Ladislav) Birge and Qi method for three-stage stochastic programs using IPM. (English summary) **2005h:90082**
— Stochastic optimization and statistical inference. (English summary) (*see* **2005f:90001**)
Powell, Warren B. (*with* Topaloglu, Huseyin) Stochastic programming in transportation and logistics. (English summary) (*see* **2005f:90001**)
— (*with* Ruszczyński, Andrzej; Topaloglu, Huseyin) Learning algorithms for separable approximations of discrete stochastic optimization problems. (English summary) **2005g:90093**
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— (*with* Long, Jianmin; Szántai, Tamás) New bounds and approximations for the probability distribution of the length of the critical path. **2005b:90083**
— *see also* **Heikkinen, Tiina**, **2005j:90051** *and* **Gassmann, H. I.**
Protasov, A. V. (*with* Ogorodnikov, V. A.) Dynamic probabilistic method of numerical modeling of stochastic multidimensional fields. (English summary) (*see* **2005i:65006**)
Qi, Liqun *see* **Ling, Chen et al.**, **2005m:90074**
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Riis, Morten (*with* Andersen, Kim Allan) Applying the minimax criterion in stochastic recourse programs. (English summary) **2005j:90052**
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— *see also* **Gröwe-Kuska, Nicole et al.**, **2005c:90058** *and* **Dentcheva, Darinka**, **2005f:90078**
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— (*with* Shapiro, Alexander) Optimality and duality in stochastic programming. (English summary) (*see* **2005f:90001**)
— Decomposition methods. (English summary) (*see* **2005f:90001**)
— *see also* **Dentcheva, Darinka et al.**, **2005f:90077**; **2005h:90078**; **2005j:90050**; **Powell, Warren B. et al.**, **2005g:90093** *and* **Beraldi, Patrizia**
Sahin, Kemal H. (*with* Diwekar, Urmila M.) Better optimization of nonlinear uncertain systems (BONUS): a new algorithm for stochastic programming using reweighting through kernel density estimation. (English summary)
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Santoso, Tjendera (*with* Ahmed, Shabbir[1]; Goetschalckx, Marc; Shapiro, Alexander) A stochastic programming approach for supply chain network design under uncertainty. (English summary)
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— *see also* **Nowak, Matthias P. et al.**, **2005k:90092** *and* **Louveaux, François V.**, (**2005f:90001**)
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— *see also* **Ruszczyński, Andrzej**, (**2005f:90001**); (**2005f:90001**) *and* **Santoso, Tjendera et al.**
Šmíd, Martin *see* **Kaňková, Vlasta**, **2005k:90091**
Spall, James C. Stochastic optimization. (*see* **2005g:62004**)
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Timofeeva, G. A. Dual problems of stochastic optimization and their application in a model of securities market. (Russian) (*see* **2005c:00020**)
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Toyonaga, Tasuku (*with* Itoh, Takeshi[1]; Ishii, Hiroaki[1]) A crop planning problem with fuzzy random profit coefficients. (English summary) **2005j:90053**
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Vogel, Silvia Stochastic programming and statistical estimates. (English summary) **2005e:90082**
Wallace, Stein W. (*with* Fleten, Stein-Erik) Stochastic programming models in energy. (English summary) (*see* **2005f:90001**)
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Zhao, Gongyun A Lagrangian dual method with self-concordant barriers for multi-stage stochastic convex programming. (English summary) **2005h:90083**
— *see also* **Liu, Xinwei, 2005b:90082**
Zhou, Chang Yin (*with* He, Guo Ping) An inexact Lagrange-Newton method for stochastic quadratic programs with recourse. (English summary) **2005a:90117**
— (*with* He, Guo Ping; Li, Shu Shan) A stochastic-search-based global convergence algorithm for constrained optimization problems. (Chinese. English and Chinese summaries) **2005m:90075**

Items listed otherwise than by author

Lecture Notes in Economics and Mathematical Systems *see* **Kuhn, Daniel, 2005h:90080**

Items with secondary classifications in 90C15

Adelman, Daniel A price-directed approach to stochastic inventory/routing. (English summary) **2005c:90003**
Alon, G. (*with* Kroese, Dirk P.; Raviv, T.; Rubinstein, Reuven Y.) Application of the cross-entropy method to the buffer allocation problem in a simulation-based environment. (English summary) **2005k:90010**
Andrade, Rafael Castro de (*with* Lisser, A.; Maculan, Nelson; Plateau, Gérard) Telecommunication network capacity design for uncertain demand. (English summary)
Angeli, David An almost global notion of input-to-state stability. (English summary) **2005b:93150**
Aouni, Belaïd (*with* Ben Abdelaziz, Foued; Martel, Jean-Marc) Decision-maker's preferences modeling in the stochastic goal programming. (English summary)
Barro, Diana (*with* Canestrelli, Elio) Dynamic portfolio optimization: time decomposition using the maximum principle with a scenario approach. (English summary) **2005j:91036**
Beier, René (*with* Vöcking, Berthold) Random knapsack in expected polynomial time. (English summary) **2005f:68175**
Ben Abdelaziz, Foued *see* **Aouni, Belaïd et al.**
Benati, Stefano The computation of the worst conditional expectation. (English summary) **2005k:90076**
Beraldi, Patrizia (*with* Ghiani, Gianpaolo; Laporte, Gilbert; Musmanno, Roberto) Efficient neighborhood search for the probabilistic pickup and delivery travelling salesman problem. (English summary) **2005m:90139**
Bertsimas, Dimitris (*with* Lauprete, Geoffrey J.; Samarov, Alexander) Shortfall as a risk measure: properties, optimization and applications. (English summary) **2005a:91052**
— (*with* Pachamanova, Dessislava; Sim, Melvyn) Robust linear optimization under general norms. (English summary) **2005e:90057**
Billionnet, Alain Mixed integer programming for the 0-1 maximum probability model. (English summary) **2005d:90078**
Birbil, Ş. İlker (*with* Fang, Shu-Cherng; Sheu, Ruey-Lin) On the convergence of a population-based global optimization algorithm. (English summary) **2005h:90173**
Bollapragada, Ramesh (*with* Camm, Jeffrey; Rao, Uday S.; Wu, Junying) A two-phase greedy algorithm to locate and allocate hubs for fixed-wireless broadband access. (English summary)
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Deelstra, Griselda (*with* Grasselli, Martino; Koehl, Pierre-François) Optimal design of the guarantee for defined contribution funds. (English summary) **2005c:91056**
Diaz, Elva Diaz (*with* Ponce de Leon Senti, Eunice E.) Discrete graphic Markov model selection by a genetic algorithm based on different estimation of distribution algorithms. (English summary)
(Donets, V. M.) *see* **Kolbin, Vyacheslav Viktorovich, 2005e:91001**
Dzemyda, Gintautas (*with* Šaltenis, Vydūnas; Žilinskas, Antanas) The jubilee of Prof. Dr. Habil. Jonas Mockus. (*see* **2005c:90002**)
Engell, Sebastian (*with* Märkert, Andreas; Sand, Guido; Schultz, Rüdiger) Aggregated scheduling of a multiproduct batch plant by two-stage stochastic integer programming. (English summary) **2005c:90036**
Fang, Shu-Cherng *see* **Birbil, Ş. İlker et al., 2005h:90173**
Fernández Aréizaga, Elena (*with* Hinojosa, Yolanda; Puerto Albandoz, Justo) Filtering policies in loss queuing network location problems. (English summary)
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Gevers, Michel *see* **Hildebrand, Roland et al., 2005d:93140**
Ghiani, Gianpaolo *see* **Beraldi, Patrizia et al., 2005m:90139**
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Grasselli, Martino *see* **Deelstra, Griselda et al., 2005c:91056**
Grigor'ev, P. V. (*with* Kan, Yu. S.) Optimal management of a portfolio of securities, based on the quantile criterion. (Russian. Russian summary) **2005d:91050**
Gülpınar, N. *see* **Osorio Lama, María Auxilio et al.**
Gupta, Anupam (*with* Pál, Martin; Ravi, Ramamoorthi; Sinha, Amitabh) Boosted sampling: approximation algorithms for stochastic optimization. (English summary) **2005j:68128**
Hartman, Joseph C. Multiple asset replacement analysis under variable utilization and stochastic demand. (English summary) **2005j:90017**
Hayya, Jack C. *see* **Kim, Jeon G. et al., 2005c:90006**
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Held, Harald (*with* Hemmecke, Raymond; Woodruff, David L.) A decomposition algorithm applied to planning the interdiction of stochastic networks. (English summary)
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Higle, Julia L. *see* **Sen, Suvrajeet et al., 2005h:90076**
Hildebrand, Roland (*with* Lecchini, Andrea; Solari, G.; Gevers, Michel) Prefiltering in iterative feedback tuning: optimization of the prefilter for accuracy. (English summary) **2005d:93140**
Hildenbrandt, Regina Stochastic dynamic programming with random disturbances. (English summary) **2005a:90174**
Hinojosa, Yolanda *see* **Fernández Aréizaga, Elena et al.**
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Homem-de-Mello, Tito *see* **Chepuri, Krishna, 2005k:90065**
Huang, Hai Jun[1] (*with* Lam, William H. K.) A stochastic model for combined activity/destination/route choice problems. (English summary)
Huang, Huei Chuen *see* **Teng, S. Y. et al., 2005f:90101**
Ishii, Hiroaki[1] *see* **Katagiri, Hideki et al., 2005b:90172** *and* **2005i:90106**
Iskander, Maged George A suggested approach for possibility and necessity dominance indices in stochastic fuzzy linear programming. (English summary) **2005i:90105**
Janakiraman, Ganesh (*with* Roundy, Robin O.) Lost-sales problems with stochastic lead times: convexity results for base-stock policies. (English summary) **2005d:90007**
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Katagiri, Hideki (*with* Ishii, Hiroaki[1]; Sakawa, Masatoshi) On fuzzy random linear knapsack problems. (English summary) **2005b:90172**
— (*with* Sakawa, Masatoshi; Ishii, Hiroaki[1]) A study on fuzzy random portfolio selection problems based on possibility and necessity measures. (English summary) **2005i:90106**
— *see also* **Sakawa, Masatoshi et al., 2005b:90175** *and* **Nishizaki, Ichiro et al., (2005b:90008)**
Kato, Kosuke *see* **Sakawa, Masatoshi et al., 2005b:90175** *and* **Nishizaki, Ichiro et al., (2005b:90008)**
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Kristinsdottir, Birna P. (*with* Zabinsky, Zelda B.; Wood, Graham R.) Discrete backtracking adaptive search for global optimization. (English summary) **2005h:90056**
Kroese, Dirk P. *see* **Rubinstein, Reuven Y., 2005c:90001** *and* **Alon, G. et al., 2005k:90010**
Kucherenko, Sergei (*with* Sytsko, Yury) Application of deterministic low-discrepancy sequences in global optimization. (English summary) **2005m:90109**
Laeven, Roger J. A. (*with* Goovaerts, Marc J.) An optimization approach to the dynamic allocation of economic capital. (English summary) **2005e:91108**
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Liu, Yian-Kui (*with* Liu, Baoding) On minimum-risk problems in fuzzy random decision systems. (English summary) **2005i:90107**
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Maculan, Nelson *see* **Andrade, Rafael Castro de et al.**
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— ★ Stochastic optimization methods. **2005h:90003**
Menache, Ishai (*with* Mannor, Shie; Shimkin, Nahum) Basis function adaptation in temporal difference reinforcement learning. (English summary)
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Nguyen Thanh Long Investment optimization under constraints. (English summary) **2005g:93123**
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— *see also* **Stochastic programming, 2005f:90001**
Sakawa, Masatoshi (*with* Kato, Kosuke; Katagiri, Hideki) An interactive fuzzy satisficing method for multiobjective linear programming problems with random variable coefficients through a probability maximization model. (English summary) **2005b:90175**
— *see also* **Katagiri, Hideki et al., 2005b:90172**; **2005i:90106** *and* **Nishizaki, Ichiro et al., (2005b:90008)**
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Sheu, Ruey-Lin *see* **Birbil, Ş. İlker et al., 2005h:90173**
Shi, Kui Ran (*with* Xiao, Tiao Jun[2]; Zhang, Weirong) Goal programming algorithm for a type of least absolute value regression problem. (English summary) **2005g:62121**
Shiina, Takayuki (*with* Watanabe, Isamu) Lagrangian relaxation method for price-based unit commitment problem. (English summary)
— A Lagrangian relaxation and column generation algorithm for stochastic unit commitment problem. (English summary)
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Sim, Melvyn *see* **Bertsimas, Dimitris et al., 2005e:90057**
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Tang, Heng-yong (*with* Zhao, Yufang) An algorithm for *L*-shaped convex programming. (English summary) **2005k:90108**
Teng, S. Y. (*with* Ong, Hoon Liong; Huang, Huei Chuen) An integer L-shaped algorithm for time-constrained traveling salesman problem with stochastic travel and service times. (English summary) **2005f:90101**
Tütüncü, Reha H. (*with* Koenig, Mark) Robust asset allocation. (English summary) **2005g:91113**
Vanderbei, Robert J. *see* **Ruszczyński, Andrzej, 2005b:91131**
Vaughan, Timothy S. Failure replacement and preventive maintenance spare parts ordering policy. (English summary)
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Xiao, Tiao Jun[2] *see* **Shi, Kui Ran et al., 2005g:62121**
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Zabinsky, Zelda B. *see* **Kristinsdottir, Birna P. et al., 2005h:90056**
Zeng, Ting (*with* Ward, James E.) The stochastic location-assignment problem on a tree. (English summary)
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Items listed otherwise than by author

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Stochastic programming ★ Stochastic programming. **2005f:90001**

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— (*with* Hansen, Pierre; Messine, Frédéric; Perron, Sylvain) The minimum diameter octagon with unit-length sides: Vincze's wife's octagon is suboptimal. (English summary) **2005g:90094**
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Dostál, Zdeněk A proportioning based algorithm with rate of convergence for bound constrained quadratic programming. (English summary) **2005c:90060**
Effati, S. (*with* Baymani, M.) A new nonlinear neural network for solving quadratic programming problems. (English summary) **2005k:90095**
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Ferris, Michael C. (*with* Munson, Todd S.) Semismooth support vector machines. (English summary) **2005c:90061**
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Fulga, Cristinca On minimum norm problems. (English summary) **2005e:90083**
Gao, David Yang Canonical duality theory and solutions to constrained nonconvex quadratic programming. (English summary) **2005h:90084**
Gao, Xing Bao A new gradient-based neural network for solving quadratic programs. (Chinese. English and Chinese summaries)
Gómez Suárez, M. A. A null-space method for computing the search direction in the general inertia-controlling method for dense quadratic programming. (English summary) **2005j:90055**
Gould, Nicholas I. M. (*with* Toint, Philippe L.) Preprocessing for quadratic programming. (English summary) **2005c:90084**
Han, Shih-Ping *see* **Lin, Anhua, 2005k:90096**
Han, Xu *see* **Yang, Xiao Wei[1] et al.**
Hansen, Pierre *see* **Audet, Charles et al., 2005a:90118** *and* **2005g:90094**
Hao, Zhifeng *see* **Yang, Xiao Wei[1] et al.**
He, Bing-sheng (*with* Wang, Yu-mei) Smoothing by convex quadratic programming. (English summary) **2005j:90056**
Ho, H. W. (*with* Wong, Sze-Chun) A Levenberg-Marquardt iterative solver for least-squares problems. (English summary)
Hua, Zhong Sheng *see* **Zhang, Bin[2]**
Ikramov, Kh. D. (*with* Matin far, M.) Computer-algebra procedures for the least squares problem with linear inequality constraints. (Russian. Russian summary) **2005m:90077**
Illés, Tibor *see* **Akkeleş, Arif A. et al., 2005b:90084**
Khamisov, O. V. Algebraic solution of nonconvex quadratic programming problems. (Russian. Russian summary) **2005d:90087**
Kou, Shu Shun Integer sets method for quadratic programming and decomposable quadratic programming. (Chinese. English and Chinese summaries)
Lai, C. D. *see* **Wang, Dong Q. et al.**
Lebbah, Yahia (*with* Michel, Claude; Rueher, Michel) A rigorous global filtering algorithm for quadratic constraints. (English summary) **2005j:90057**
Le Digabel, Sébastien *see* **Audet, Charles et al., 2005a:90118**
Lee, Gue Myung (*with* Nguyen Nang Tam; Nguyễn Đông Yên) Some recent results on quadratic programs and affine variational inequality problems under linear perturbations. (English summary) (*see* **2005a:00016**)
Lee, Kwok-Hong *see* **Xuan, Zhao Cheng, (2005g:65008)**
Liang, Yan Chun *see* **Yang, Xiao Wei[1] et al.**
Lin, Anhua (*with* Han, Shih-Ping) A class of methods for projection on the intersection of several ellipsoids. (English summary) **2005k:90096**
Liu, Gui-Rong *see* **Yang, Xiao Wei[1] et al.**
Liu, San Yang *see* **Yong, Long Quan**
Locatelli, Marco *see* **Bomze, Immanuel M., 2005a:90119**
Magazinović, G. Two-point mid-range approximation enhanced recursive quadratic programming method. (English summary)
Marcia, Roummel F. *see* **Rosen, J. Ben, 2005d:90088**
Matin far, M. *see* **Ikramov, Kh. D., 2005m:90077**
Messine, Frédéric *see* **Audet, Charles et al., 2005g:90094**
Michel, Claude *see* **Lebbah, Yahia et al., 2005j:90057**
Munson, Todd S. *see* **Ferris, Michael C., 2005c:90061**
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Nguyen Nang Tam *see* **Lee, Gue Myung et al., (2005a:00016)**
Perron, Sylvain *see* **Audet, Charles et al., 2005g:90094**
Pınar, Mustafa Ç. Sufficient global optimality conditions for bivalent quadratic optimization. (English summary) **2005f:90080**
Popescu, Elena (*with* Ştefănescu, Mirela) A QR-factorization method for least-squares problems of linear inequalities with constraints. (English summary) **2005c:90062**
— A dual approach to solving linear inequalities by unconstrained quadratic optimization. (English summary) **2005c:90063**
Potapov, M. M. On estimates for the accuracy of regularization methods in quadratic minimization problems on a half-plane. (Russian. Russian summary) **2005b:90085**
Recht, Peter Detecting superfluous constraints in quadratic programming by varying the optimal point of the unrestricted problem. (English summary) **2005h:90085**
Rosen, J. Ben (*with* Marcia, Roummel F.) Convex quadratic approximation. (English

summary) **2005d:90088**

Rueher, Michel *see* **Lebbah, Yahia et al., 2005j:90057**

Serafini, T. (*with* Zanghirati, G.; Zanni, L.) Large quadratic programs in training Gaussian support vector machines. (English summary) **2005c:90064**

Shu, Lei *see* **Yang, Xiao Wei[1] et al.**

Ştefănescu, Mirela *see* **Popescu, Elena, 2005c:90062**

Stefanov, Stefan M. Convex quadratic minimization subject to a linear constraint and box constraints. **2005e:90085**

Toint, Philippe L. *see* **Gould, Nicholas I. M., 2005e:90084**

Vandenbussche, Dieter (*with* Nemhauser, George L.) A polyhedral study of nonconvex quadratic programs with box constraints. (English summary) **2005k:90097**

— (*with* Nemhauser, George L.) A branch-and-cut algorithm for nonconvex quadratic programs with box constraints. (English summary) **2005k:90098**

Wang, Dong Q. (*with* Chukova, Stefanka; Lai, C. D.) Reducing quadratic programming problem to regression problem: stepwise algorithm. (English summary)

Wang, Yu-mei *see* **He, Bing-sheng, 2005j:90056**

Wong, Sze-Chun *see* **Ho, H. W.**

Xu, Song A non-interior path following method for convex quadratic programming problems with bound constraints. (English summary) **2005b:90086**

Xuan, Zhao Cheng (*with* Lee, Kwok-Hong) Explicit surrogate dual formulation and algorithm for quadratic programming. (English summary) (*see* **2005g:65008**)

Yang, Xiao Wei[1] (*with* Shu, Lei; Hao, Zhifeng; Liang, Yan Chun; Liu, Gui-Rong; Han, Xu) An extended Lagrangian support vector machine for classifications. (English summary)

Yong, Long Quan (*with* Liu, San Yang) A new method for ball constrained convex quadratic programming. (Chinese. English and Chinese summaries)

Zanghirati, G. *see* **Serafini, T. et al., 2005c:90064**

Zanni, L. *see* **Serafini, T. et al., 2005c:90064**

Zhang, Bin[2] (*with* Hua, Zhong Sheng) An improved Lemke algorithm for convex quadratic programming with equality constraints. (Chinese. English and Chinese summaries)

Items with secondary classifications in 90C20

Adams, Warren P. (*with* Forrester, Richard J.; Glover, Fred W.) Comparisons and enhancement strategies for linearizing mixed 0-1 quadratic programs. (English summary) **2005h:90068**

Anstreicher, Kurt M. Recent advances in the solution of quadratic assignment problems. (English summary) **2005m:90094**

Aryanezhad, Mir. B. *see* **Sadjadi, Seyed J. et al., 2005e:91091**

Bai, Er-Wei (*with* Li, Duan) Convergence of the iterative Hammerstein system identification algorithm. (English summary) **2005g:93032**

Bakirov, N. K. (*with* Mustafaev, A. A-V.) A mean-square trend. (Russian. Russian summary) **2005m:60023**

Bartels, Sören Adaptive approximation of Young measure solutions in scalar nonconvex variational problems. (English summary) **2005j:49023**

Barthélemy, Jean-Pierre (*with* Brucker, François; Osswald, Christophe) Combinatorial optimization and hierarchical classifications. (English summary) **2005h:90102**

Barvinok, A. I. (*with* Stephen, Tamon) The distribution of values in the quadratic assignment problem. (English summary) (*see* **2005a:90006**)

Beck, Amir (*with* Teboulle, Marc) A conditional gradient method with linear rate of convergence for solving convex linear systems. (English summary) **2005b:90092**

Bector, C. R. *see* **Vidyottama, V. et al., 2005g:91014**

Bemporad, Alberto *see* **Tøndel, Petter et al.**

Bergamaschi, Luca (*with* Gondzio, Jacek; Zilli, Giovanni) Preconditioning indefinite systems in interior point methods for optimization. (English summary) **2005f:90154**

Bhargava, Shifali (*with* Sharma, Kailash Chandra) A relaxed projection method for general integer quadratic knapsack problem. (English summary)

Bomze, Immanuel M. *see* **Churilov, Leonid et al., 2005h:91102**

Bondarenko, Yu. V. Construction of a mean-square optimal hedge with limited investment capital. (Russian. English and Ukrainian summaries) **2005m:91091**

Boros, Endre (*with* Lari, Isabella; Simeone, Bruno) Block linear majorants in quadratic 0-1 optimization. (English summary) **2005h:90070**

Braun, Stephen (*with* Mitchell, John E.) A semidefinite programming heuristic for quadratic programming problems with complementarity constraints. (English summary) **2005k:90224**

Breitkopf, Piotr (*with* Rassineux, Alain; Villon, Pierre) An introduction to moving least squares meshfree methods. **2005h:65232**

Brucker, François *see* **Barthélemy, Jean-Pierre et al., 2005h:90102**

Bruni, C. (*with* Scoglio, C.; Vergari, S.) Path capacity dimensioning in a multiprotocol label switched network: analysis of optimal and suboptimal solutions. (English summary) **2005c:90009**

Budkina, Natalia On a method of the construction of smoothing histosplines. (English and Estonian summaries)

Calvetti, Daniela (*with* Lewis, Bryan; Reichel, Lothar; Sgallari, F.) Tikhonov regularization with nonnegativity constraint. (English summary) **2005m:65091**

Cambini, Riccardo (*with* Carosi, Laura) On generalized linearity of quadratic fractional functions. (English summary) **2005i:90047**

Carney, Paul R. *see* **Pardalos, Panos M. et al., 2005f:92011**

Carosi, Laura *see* **Cambini, Riccardo, 2005i:90047**

Chandra, Suresh *see* **Vidyottama, V. et al., 2005g:91014**

Chaovalitwongse, Wanpracha *see* **Pardalos, Panos M. et al., 2005f:92011**

Chen, Xiongda *see* **Sun, Jie et al., 2005h:90150**

Chen, Zhi Ping (*with* Xi, Feng) A new branch-and-bound algorithm for solving large-scale complex integer convex quadratic programming problems. (Chinese. English and Chinese summaries) **2005k:90079**

Cho, Gyeong-Mi Log-barrier method for two-stage quadratic stochastic programming. (English summary) **2005j:90049**

Churilov, Leonid (*with* Bomze, Immanuel M.; Sniedovich, Moshe; Ralph, Daniel) Hyper sensitivity analysis of portfolio optimization problems. (English summary) **2005h:91102**

Costantini, Paolo (*with* Sampoli, Maria Lucia) A general frame for the construction of constrained curves. (English summary) **2005m:41036**

Demetriou, I. C. Least squares convex-concave data smoothing. (English summary) **2005e:65009**

Di Bucchianico, Alessandro (*with* van de Wiel, Mark A.) Exact null distributions of distribution-free quadratic t-sample statistics. (English summary) **2005f:62024**

Domschke, Wolfgang (*with* Wagner, Bernd[2]) Models and methods for standardization problems. (English summary)

Dostál, Zdeněk (*with* Friedlander, A.; Santos, S. A.) Augmented Lagrangians with adaptive precision control for quadratic programming with simple bounds and equality constraints. (English summary) **2005a:65057**

Duffuaa, Salih O. *see* **Fedjki, Chawki A., 2005a:90135**

El-Sayed Wahed, M. Neural network representation of stochastic quadratic programming problems when b_i's and c_j's follow goint distribution. (English summary) [Neural network representation of stochastic quadratic programming problems when b_i's and c_j's follow joint distribution]

Fang, Shu-Cherng *see* **Wu, Soon-Yi**

Fedjki, Chawki A. (*with* Duffuaa, Salih O.) An extreme point algorithm for a local minimum solution to the quadratic assignment problem. (English summary) **2005a:90135**

Feng, En Min *see* **Luo, Cheng-Xin, 2005b:93164**

(Fletcher, Roger) *see* **Gould, Nicholas I. M. et al.**

Forrester, Richard J. *see* **Adams, Warren P. et al., 2005h:90068**

Friedlander, A. *see* **Dostál, Zdeněk et al., 2005a:65057**

Fuchs, Jean-Jacques On sparse representations in arbitrary redundant bases. (English summary) **2005e:94022**

Gao, David Yang Sufficient conditions and perfect duality in nonconvex minimization with inequality constraints. (English summary) **2005m:90149**

Glover, Fred W. *see* **Adams, Warren P. et al., 2005h:90068**

Gondzio, Jacek *see* **Bergamaschi, Luca et al., 2005f:90154**

Gould, Nicholas I. M. (*with* Orban, Dominique; Toint, Philippe L.) GALAHAD, a library of thread-safe Fortran 90 packages for large-scale nonlinear optimization. (English summary) **2005b:90006**

— (*with* Leyffer, Sven; Toint, Philippe L.) Preface: Nonlinear programming: theory and practice [Special issue on large scale nonconvex optimization algorithms and applications in honor of Roger Fletcher's 65th birthday].

Hadigheh, Alireza Ghafari (*with* Terlaky, Tamás) Sensitivity analysis in convex quadratic optimization: invariant support set interval. (English summary) **2005i:90075**

Hassibi, Babak (*with* Vikalo, Haris) Maximum-likelihood decoding and integer least-squares: the expected complexity. (English summary) **2005a:94017**

Helmberg, Christoph A cutting plane algorithm for large scale semidefinite relaxations. (English summary) (*see* **2005b:90009**)

Hintermüller, Michael (*with* Kovtunenko, V. A.; Kunisch, Karl) Semismooth Newton methods for a class of unilaterally constrained variational problems. (English summary) **2005h:49078**

Huang, Chih-Peng (*with* Juang, Yau-Tarng; Lin, Hui-Ling) A complex projection scheme and applications. (English summary) **2005m:15046**

Iasemidis, Leonidas D. *see* **Pardalos, Panos M. et al., 2005f:92011**

Ikramov, Kh. D. (*with* Matin far, M.) On the computer algebra implementation of the method of least squares on the nonnegative orthant. (Russian. English and Russian summaries) **2005i:65065**

Ioffe, A. D. (*with* Lucchetti, R. E.; Revalski, Julian P.) Almost every convex or quadratic programming problem is well posed. (English summary) **2005d:49046**

Ito, Satoshi (*with* Liu, Yan Qun; Teo, Kok Lay) An approximation approach to nonstrictly convex quadratic semi-infinite programming. (English summary) **2005i:90084**

Johansen, Tor Arne *see* **Tøndel, Petter et al.**

Juang, Yau-Tarng *see* **Huang, Chih-Peng et al., 2005m:15046**

Jukić, Dragan (*with* Scitovski, Rudolf; Sabo, Kristian) Total least squares problem for the Hubbert function. (English summary) **2005k:65113**

Koivisto, Hannu *see* **Xiong, Guangyu, (2005c:00015)**

Kostreva, Michael M. (*with* Yang, Xiao Qi) Unified approaches for solvable and unsolvable linear complementarity problems. (English summary) **2005e:90142**

Kovtunenko, V. A. *see* **Hintermüller, Michael et al., 2005h:49078**

Krnić, I. (*with* Obradović, O.; Potapov, M. M.) On the accuracy of regularized solutions to quadratic minimization problems on a half-space, in case of a normally solvable operator. (English summary) **2005a:90183**

Kunisch, Karl *see* **Hintermüller, Michael et al., 2005h:49078**

Kuriakose, A. Sunny *see* **Shobana Devi, C. K., 2005d:91002**

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Lewis, Bryan *see* **Calvetti, Daniela et al., 2005m:65091**

Leyffer, Sven *see* **Gould, Nicholas I. M. et al.**

Li, Duan *see* **Bai, Er-Wei, 2005g:93032**

Lin, Hui-Ling *see* **Huang, Chih-Peng et al., 2005m:15046**

Liu, Hongwei[2] (*with* Wang, Xinhui; Liu, San Yang) Feasible direction algorithm for solving the SDP relaxations of quadratic $\{-1, 1\}$ programming problems. (English summary) **2005a:65058**

Liu, San Yang *see* **Liu, Hongwei[2] et al., 2005a:65058**

Liu, Yan Qun (*with* Teo, Kok Lay; Wu, Soon-Yi) A new quadratic semi-infinite programming algorithm based on dual parametrization. (English summary) **2005g:90155**

— *see also* **Ito, Satoshi et al., 2005i:90084**

Lucchetti, R. E. *see* **Ioffe, A. D. et al., 2005d:49046**

Luo, Cheng-Xin (*with* Feng, En Min) Indefinite stochastic optimal LQR control with cross term under IQ constraints. (English summary) **2005b:93164**

Matin far, M. *see* **Ikramov, Kh. D., 2005i:65065**

Mitchell, John E. *see* **Braun, Stephen, 2005k:90224**

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Mustafaev, A. A-V. *see* **Bakirov, N. K., 2005m:60023**

Nie, Pu Yan Filter methods for system of nonlinear equations. (Chinese. English and Chinese summaries) **2005m:65109**

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. programs. (English summary) **2005i:90038**
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Papachristodoulou, Antonis *see* **Prajna, Stephen et al., 2005j:93004**
Pardalos, Panos M. (*with* Chaovalitwongse, Wanpracha; Iasemidis, Leonidas D.; Sackellares, J. Chris; Shiau, Deng-Shan; Carney, Paul R.; Prokopyev, Oleg Alexan; Yatsenko, V. A.) Seizure warning algorithm based on optimization and nonlinear dynamics. (English summary) **2005f:92011**
Parrilo, Pablo A. *see* **Prajna, Stephen et al., 2005j:93004**
Peretti, Alberto Ill-conditioned efficient portfolios. (English summary) **2005e:91090**
Pınar, Mustafa Ç. (*with* Tütüncü, Reha H.) Robust profit opportunities in risky financial portfolios. (English summary) **2005j:91045**
Pop, Nicolae (*with* Zelina, Ioana) A quadratic programming method for saddle point formulations in contact problems with friction. (English summary)
Potapov, M. M. *see* **Krnić, I. et al., 2005a:90183**
Powell, M. J. D. Least Frobenius norm updating of quadratic models that satisfy interpolation conditions. (English summary) **2005f:90166**
Prajna, Stephen (*with* Papachristodoulou, Antonis; Seiler, Peter; Parrilo, Pablo A.) SOSTOOLS and its control applications. (English summary) **2005j:93004**
Prokopyev, Oleg Alexan *see* **Pardalos, Panos M. et al., 2005f:92011**
Ralph, Daniel *see* **Churilov, Leonid et al., 2005h:91102**
Rassineux, Alain *see* **Breitkopf, Piotr et al., 2005h:65232**
Reich, Simeon (*with* Xu, Hong-Kun) An iterative approach to a constrained least squares problem [MR1983077 (2004c:65062)]. (*see* **2005d:00015**)
Reichel, Lothar *see* **Calvetti, Daniela et al., 2005m:65091**
Revalski, Julian P. *see* **Ioffe, A. D. et al., 2005d:49046**
Rhoades, B. E. Quadratic optimization of fixed points for a family of nonexpansive mappings in Hilbert space. **2005f:90153**
Saad, Omar M. Stability on multiobjective quadratic programming problems with fuzzy parameters. (English summary) **2005b:90174**
Sabo, Kristian *see* **Jukić, Dragan et al., 2005k:65113**
Sackellares, J. Chris *see* **Pardalos, Panos M. et al., 2005f:92011**
Sadjadi, Seyed J. (*with* Aryanezhad, Mir. B.; Moghaddam, B. F.) A dynamic programming approach to solve efficient frontier. (English summary) **2005e:91091**
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Shiau, Deng-Shan *see* **Pardalos, Panos M. et al., 2005f:92011**
Shobana Devi, C. K. (*with* Kuriakose, A. Sunny) On rectangular fuzzy games. (English summary) **2005d:91002**
Simeone, Bruno *see* **Boros, Endre et al., 2005h:90070**
Smirnov, G. V. Adsorption integral equation. (English summary) **2005k:45005**
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Stephen, Tamon *see* **Barvinok, A. I., (2005a:90006)**
Sun, De Feng *see* **Zhou, Guang Lu et al., 2005a:65060**
Sun, Jie (*with* Yang, Xiao Qi; Chen, Xiongda) Quadratic cost flow and the conjugate gradient method. (English summary) **2005h:90150**
Teboulle, Marc *see* **Beck, Amir, 2005b:90092**
Teo, Kok Lay *see* **Liu, Yan Qun et al., 2005g:90155** *and* **Ito, Satoshi et al., 2005i:90084**
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Toint, Philippe L. *see* **Gould, Nicholas I. M. et al., 2005b:90006**
Tøndel, Petter (*with* Johansen, Tor Arne; Bemporad, Alberto) An algorithm for multi-parametric quadratic programming and explicit MPC solutions. (English summary)
Tseng, Paul Convergence properties of Dikin's affine scaling algorithm for nonconvex quadratic minimization. (English summary) **2005i:90052**
Tütüncü, Reha H. *see* **Pınar, Mustafa Ç., 2005j:91045**
Vergari, S. *see* **Bruni, C. et al., 2005c:90009**
Vidyottama, V. (*with* Chandra, Suresh; Bector, C. R.) Bi-matrix games with fuzzy goals and fuzzy pay-offs. (English summary) **2005g:91014**
Vikalo, Haris *see* **Hassibi, Babak, 2005a:94017**
Villon, Pierre *see* **Breitkopf, Piotr et al., 2005h:65232**
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Wang, Shou Yang (*with* Zhu, Shu-Shang) Fuzzy portfolio optimization. (English summary) **2005b:91136**
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van de Wiel, Mark A. *see* **Di Bucchianico, Alessandro, 2005f:62024**
Wu, Soon-Yi (*with* Fang, Shu-Cherng) Foreword [Special Issue on the International Conference on Optimization and Optimal Control (ICOOC)].
— *see also* **Liu, Yan Qun et al., 2005g:90155**
Xi, Feng *see* **Chen, Zhi Ping, 2005k:90079**
Xiong, Guangyu (*with* Koivisto, Hannu) Research on fuzzy inventory control under supply chain management environment. (English summary) (*see* **2005c:00015**)
Xu, Hong-Kun *see* **Reich, Simeon, (2005d:00015)**
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Zhang, Wei Guo² (*with* Nie, Zan Kan) On admissible efficient portfolio selection problem. (English summary) **2005g:91116**
Zhong, Wan Xie (*with* Zhang, Hongwu) Mixed energy method for solution of quadratic programming problems. (English summary) (*see* **2005g:74002**)
Zhou, Guang Lu (*with* Toh, Kim-Chuan; Sun, De Feng) Globally and quadratically convergent algorithm for minimizing the sum of Euclidean norms. (English summary) **2005a:65060**
Zhu, Shu-Shang *see* **Wang, Shou Yang, 2005b:91136**
Zhu, Wenxing A provable better branch and bound method for a nonconvex integer quadratic programming problem. (English summary) **2005g:90174**
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Altman, Eitan *see* **Touati, Corinne et al., 2005b:90089**
Anjos, Miguel F. Proofs of unsatisfiability via semidefinite programming. (English summary) **2005e:90086**
— On semidefinite programming relaxations for the satisfiabilty problem. (English summary) **2005h:90086**
Balakrishnan, V. Ragu *see* **Vandenberghe, Lieven et al., 2005m:90080**
Bellavia, Stefania (*with* Pieraccini, Sandra) Convergence analysis of an inexact infeasible interior point method for semidefinite programming. (English summary) **2005h:90087**
Bertsimas, Dimitris (*with* Natarajan, Karthik; Teo, Chung-Piaw) Probabilistic combinatorial optimization: moments, semidefinite programming and asymptotic bounds. (English summary) **2005k:90099**
Boyd, Stephen P. (*with* Diaconis, Persi; Xiao, Lin³) Fastest mixing Markov chain on a graph. (English summary) **2005j:90058**
Chin, Choong Ming (*with* Fletcher, Roger) On the global convergence of an SLP-filter algorithm that takes EQP steps. (English summary) **2005b:90087**
Chua, S. K. (*with* Toh, Kim-Chuan; Zhao, Gongyun) Analytic center cutting-plane method with deep cuts for semidefinite feasibility problems. (English summary) **2005h:90088**
D'Amato, Fernando (*with* Rotea, Mario) LFTB: an efficient algorithm to bound linear fractional transformations. (English summary) **2005k:90100**
Diaconis, Persi *see* **Boyd, Stephen P. et al., 2005j:90058**
Dikin, I. I. Convergence of a sequence of vectors of dual variables in the investigation of a problem of semidefinite programming. (Russian. English and Ukrainian summaries) **2005b:90088**
Fletcher, Roger *see* **Chin, Choong Ming, 2005b:90087**
Fortin, Charles (*with* Wolkowicz, Henry) The trust region subproblem and semidefinite programming. (English summary) **2005c:90065**
Galtier, Jérôme *see* **Touati, Corinne et al., 2005b:90089**
Hachez, Yvan (*with* Nesterov, Yurii) Optimization problems over non-negative polynomials with interpolation constraints. (English summary) **2005k:90101**
Halická, M. (*with* de Klerk, Etienne; Roos, Cornelis) Limiting behavior of the central path in semidefinite optimization. (English summary) **2005m:90078**
Hansson, Anders *see* **Vandenberghe, Lieven et al., 2005m:90080**
Helmberg, Christoph A cutting plane algorithm for large scale semidefinite relaxations. (English summary) (*see* **2005b:90009**)
Huang, Zheng Hai Global Lipschitzian error bounds for semidefinite complementarity problems with emphasis on NCPs. (English summary) **2005h:90089**
Jibrin, Shafiu (*with* Swift, James W.) The boundary of weighted analytic centers for linear matrix inequalities. (English summary) **2005a:90121**
Kalantari, Bahman Semidefinite programming and matrix scaling over the semidefinite cone. (English summary) **2005g:90095**
Kanzow, Christian (*with* Nagel, Christian) Corrigendum: "Semidefinite programs: new search directions, smoothing-type methods, and numerical results" [SIAM J. Optim. 13 (2002), no. 1, 1–23; MR1922431 (2003f:90053)]. (English summary) **2005e:90087**
— (*with* Nagel, Christian) Some structural properties of a Newton-type method for semidefinite programs. (English summary) **2005g:90096**
Kim, Do Sang (*with* Noh, Kyung-A.) Symmetric duality in quadratic programming and matrix game equivalence. (English summary)
de Klerk, Etienne (*with* Pasechnik, Dmitrii V.) Products of positive forms, linear matrix inequalities, and Hilbert 17th problem for ternary forms. (English summary) **2005f:90081**
— (*with* Laurent, Monique; Parrilo, Pablo A.) On the equivalence of algebraic approaches to the minimization of forms on the simplex. (English summary) **2005j:90059**
— *see also* **Halická, M. et al., 2005m:90078**
Laurent, Monique Semidefinite relaxations for max-cut. (English summary) **2005f:90082**
— *see also* **de Klerk, Etienne et al., 2005j:90059**
Lee, Sangwook *see* **Lim, Sungmook et al., 2005g:90097**
Lim, Sungmook (*with* Lee, Sangwook; Park, Soondal) An ε-sensitivity analysis for semidefinite programming. (English summary) **2005g:90097**
Lu, Zhaosong (*with* Monteiro, Renato D. C.) Error bounds and limiting behavior of weighted paths associated with the SDP map $X^{1/2}SX^{1/2}$. (English summary) **2005m:90079**
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Rotea, Mario *see* **D'Amato, Fernando, 2005k:90100**
Roupin, Frédéric From linear to semidefinite programming: an algorithm to obtain semidefinite relaxations for bivalent quadratic problems. (English summary) **2005h:90090**

Sim, Chee-Khian (*with* Zhao, Gongyun) A note on treating a second order cone program as a special case of a semidefinite program. (English summary) **2005k:90102**
Sun, De Feng *see* **Sun, Jie et al., 2005g:90098**
Sun, Jie (*with* Sun, De Feng; Qi, Liqun) A squared smoothing Newton method for nonsmooth matrix equations and its applications in semidefinite optimization problems. (English summary) **2005g:90098**
— *see also* **Zhou, Guang Lu et al., 2005j:90060**
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Touati, Corinne (*with* Altman, Eitan; Galtier, Jérôme) Semi-definite programming approach for bandwidth allocation and routing in networks. **2005b:90089**
Vandenberghe, Lieven (*with* Balakrishnan, V. Ragu; Wallin, Ragnar; Hansson, Anders; Roh, Tae) Interior-point algorithms for semidefinite programming problems derived from the KYP lemma. (English summary) **2005m:90080**
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Xiao, Lin[3] *see* **Boyd, Stephen P. et al., 2005j:90058**
Yang, Qingzhi (*with* Yu, Hong) Discretization method for semi-definite programming. (English summary) **2005h:90092**
— A new proof of the strong duality theorem for semidefinite programming. (English summary) **2005i:90041**
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Zhao, Gongyun *see* **Chua, S. K. et al., 2005h:90088** *and* **Sim, Chee-Khian, 2005k:90102**
Zhou, Guang Lu (*with* Toh, Kim-Chuan) Polynomiality of an inexact infeasible interior point algorithm for semidefinite programming. (English summary) **2005b:90090**
— (*with* Toh, Kim-Chuan; Sun, Jie) Efficient algorithms for the smallest enclosing ball problem. (English summary) **2005j:90060**

Items with secondary classifications in 90C22

Alfakih, Abdo Y. On the uniqueness of Euclidean distance matrix completions: the case of points in general position. (English summary) **2005i:51011**
Anjos, Miguel F. An improved semidefinite programming relaxation for the satisfiability problem. (English summary) **2005m:90093**
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Arıkan, Orhan *see* **Pınar, Mustafa Ç., 2005e:65060**
Bachelier, Olivier (*with* Henrion, Didier; Pradin, Bernard; Mehdi, Driss) Robust root-clustering of a matrix in intersections or unions of regions. (English summary) **2005h:93121**
Bliman, Pierre-Alexandre A convex approach to robust stability for linear systems with uncertain scalar parameters. (English summary) **2005m:93109**
Bomze, Immanuel M. (*with* Locatelli, Marco) Undominated d.c. decompositions of quadratic functions and applications to branch-and-bound approaches. (English summary) **2005a:90119**
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Braun, Stephen (*with* Mitchell, John E.) A semidefinite programming heuristic for quadratic programming problems with complementarity constraints. (English summary) **2005k:90224**
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Chazelle, Bernard (*with* Kingsford, Carl; Singh, Mona) A semidefinite programming approach to side chain positioning with new rounding strategies. (English summary) **2005g:92015**
Chen, Feng[3] (*with* Zhang, Lian Sheng) Semi-definite relaxation algorithm for single machine scheduling with controllable processing times. (English summary) **2005j:90004**
Chen, Jein-Shan (*with* Chen, Xin[5]; Tseng, Paul) Analysis of nonsmooth vector-valued functions associated with second-order cones. (English summary) **2005e:49029**
Chen, Xin[5] *see* **Chen, Jein-Shan et al., 2005e:49029**
Cheung, Dennis (*with* Cucker, Felipe; Ye, Yinyu) Linear programming and condition numbers under the real number computation model. **2005f:90063**
Coja-Oghlan, Amin Coloring k-colorable semirandom graphs in polynomial expected time via semidefinite programming. (English summary) (*see* **2005b:68019**)
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— (*with* Schechtman, Gideon) On the intgrality ratio of semidefinite relaxations of MAX CUT. (English summary) (*see* **2005j:68008**)
— (*with* Langberg, Michael; Schechtman, Gideon) Graphs with tiny vector chromatic numbers and huge chromatic numbers. (English summary) **2005k:68159**
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Iyengar, Garud (*with* Kang, Wanmo) Inverse conic programming with applications. (English summary) **2005g:90101**
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— (*with* Lee, Gue Myung; Nguyen Dinh) Lagrange multiplier conditions characterizing the optimal solution sets of cone-constrained convex programs. (English summary) **2005i:90044**
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Liu, Hongwei[2] (*with* Wang, Xinhui; Liu, San Yang) Feasible direction algorithm for solving the SDP relaxations of quadratic $\{-1, 1\}$ programming problems. (English summary) **2005a:65058**
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Locatelli, Marco *see* **Bomze, Immanuel M., 2005a:90119**
Lu, Wu-Sheng (*with* Saramäki, Tapio; Bregović, Robert) Design of practically perfect-reconstruction cosine-modulated filter banks: a second-order cone programming approach. (English summary) **2005h:93165**
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— *see also* **Apkarian, Pierre et al., 2005k:93064**
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Park, Byung-Gun (*with* Kwon, Wook Hyun) Robust one-step receding horizon control of discrete-time Markovian jump uncertain systems. (English summary)
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Wills, Adrian G. (*with* Heath, William P.) Barrier function based model predictive control. (English summary)
Xiao, Lin[3] (*with* Boyd, Stephen P.) Fast linear iterations for distributed averaging. (English summary)
Yang, Xiao Qi *see* **Goh, C. J., 2005c:90109**
Yao, David D. (*with* Zhang, Shu Zhong; Zhou, Xun Yu) Linear quadratic control revisited: a view through semidefinite programming. (English summary) **2005e:49071**
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Yıldırım, E. Alper Unifying optimal partition approach to sensitivity analysis in conic optimization. (English summary) **2005e:90134**
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Yuan, Yu Bo (*with* Pu, Dong Mei) Equivalent 2-catalog segmentation problem and its improved randomized algorithm. (Chinese. English and Chinese summaries)
Zang, Zhuquan (*with* Nordholm, Sven) Design of ODMA digital waveforms using non-convex optimization methods. (English summary)
Zhang, Li Qian[2] *see* **Huang, Xin et al., 2005b:93162**
Zhang, Lian Sheng *see* **Chen, Feng[3], 2005j:90004**
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Altangerel, L. (*with* Boţ, Radu Ioan; Wanka, Gert) Duality for convex partially separable optimization problems. (English summary) **2005d:90089**
Andramonov, Mikhail Numerical methods of abstract convex analysis.
Antipin, I. P. (*with* Ishmukhametov, A. Z.; Karyukina, Yu. G.) A dual regularized method in convex finite-dimensional optimization problems. (Russian. Russian summary) **2005k:90103**
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— (*with* Kruk, Serge G.) Reflection-projection method for convex feasibility problems with an obtuse cone. (English summary) **2005c:90067**
— (*with* Burke, James V.; Deutsch, F. R.; Hundal, Hein S.; Vanderwerff, Jon D.) A new proximal point iteration that converges weakly but not in norm. (English summary) **2005i:90042**
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— (*with* De Pierro, Alvaro R.; Zaknoon, Maroun) Steered sequential projections for the inconsistent convex feasibility problem. (English summary) **2005g:90099**
Champion, Thierry Duality gap in convex programming. (English summary) **2005b:90093**
Chemisova, T. V. On the constructive solution of convex programming problems in separable form. **2005h:90094**
Chen, Xin[1] (*with* Qi, Houduo; Qi, Liqun; Teo, Kok Lay) Smooth convex approximation to the maximum eigenvalue function. (English summary) **2005i:90043**
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Du, Li Li[1] New primal neutral networks for solving a class of nonlinear programs with linear constraints. (Chinese. English and Chinese summaries)
Echebest, N. (*with* Guardarucci, M. T.; Scolnik, H.; Vacchino, M. C.) An acceleration scheme for solving convex feasibility problems using incomplete projection algorithms. (English summary) **2005e:90089**
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Gao, Gui Ying (*with* Zhang, Li Wei) Application of the parallelization technique to a dual method for a constrained convex programming problem. (Chinese. English and Chinese summaries)
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Lee, Heung Wing Joseph *see* **Li, Duan et al., 2005g:90103**
Lee, Mun Bae (*with* Park, Sung Ho[1]) Convergence of sequential parafirmly nonexpansive mappings in reflexive Banach spaces. (English summary) 2005g:90102
Li, Duan (*with* Wu, Zhi You; Wing, Heung; Lee, Heung Wing Joseph; Yang, Xin Min; Zhang, Lian Sheng) Identification of hidden convex minimization problems. (English summary) **2005g:90103**
Li, Shi Zheng *see* **Yan, Zhaoxiang, 2005j:90061**
Li, Xing Si (*with* Zhang, Pei Ai) An entropic smoothing method for solving convex inequality problems. (Chinese. English summary) **2005k:90107**
Lim, Churlzu *see* **Sherali, Hanif D., 2005a:90123**
Liu, Xiao Dong[3] (*with* Peng, Guo Hua[1]) A region decomposition method for convex nonlinear programming with box constraints. (Chinese. English summary)
Marín, Ángel G. *see* **Salmerón, Javier, 2005g:90104**
Meng, Fanwen (*with* Zhao, Gongyun) On second-order properties of the Moreau-Yosida regularization for constrained nonsmooth convex programs. (English summary) **2005m:90084**
Ng, Kung Fu (*with* Yang, Wei Hong) Regularities and their relations to error bounds. (English summary) **2005b:90097**
— *see also* **Zheng, Xi Yin, 2005f:90087**
Nguyen Dinh *see* **Jeyakumar, V. et al., 2005i:90044**
Nurminskiĭ, E. A. A parallel method of projection onto the convex hull of a family of sets. (Russian) **2005h:90095**
Obuchowska, Wiesława T. Remarks on the analytic centers of convex sets. (English summary) **2005h:90096**
Ogura, Nobuhiko *see* **Yamada, Isao, 2005i:90046**
O'Hara, John G. (*with* Pillay, Paranjothi; Xu, Hong-Kun) Iterative approaches to convex minimization problems. (English summary) **2005i:90045**
Park, Sung Ho[1] *see* **Lee, Mun Bae, 2005g:90102**
Patsko, S. V. *see* **Eremin, I. I., 2005a:90122**
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Peng, Guo Hua[1] *see* **Liu, Xiao Dong[3]**
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Pillay, Paranjothi *see* **O'Hara, John G. et al., 2005i:90045**
Polyak, R. (*with* Griva, Igor) Primal-dual nonlinear rescaling method for convex optimization. (English summary) **2005f:90085**
Qi, Houduo *see* **Chen, Xin[1] et al., 2005i:90043**
Qi, Liqun *see* **Chen, Xin[1] et al., 2005i:90043**
Ryazantseva, I. P. Some second-order regularization methods for convex extremal problems in a Banach space. (Russian. Russian summary) **2005c:90069**
Salmerón, Javier (*with* Marín, Ángel G.) A convex submodel with application to system design. (English summary) **2005g:90104**
Scolnik, H. *see* **Echebest, N. et al., 2005e:90089**
Sherali, Hanif D. (*with* Lim, Churlzu) On embedding the volume algorithm in a variable target value method. (English summary) **2005a:90123**
Shi, Zhen Jun (*with* Yue, Li) New properties of convex functions and their applications. (Chinese. English and Chinese summaries)
Skarin, V. D. Regularized Lagrange function and correction methods for improper convex programming problems. (English summary) **2005e:90091**
Svaiter, Benar F. *see* **Humes, Carlos, Jr. et al., 2005b:90096**
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Teo, Kok Lay *see* **Chen, Xin[1] et al., 2005i:90043**
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Wu, Zhi You *see* **Li, Duan et al., 2005g:90103**
Xia, You Sheng (*with* Wang, Jun[3]) A recurrent neural network for nonlinear convex optimization subject to nonlinear inequality constraints. (English summary) **2005f:90086**
Xu, Hong-Kun *see* **O'Hara, John G. et al., 2005i:90045**
Yamada, Isao (*with* Ogura, Nobuhiko) Adaptive projected subgradient method for asymptotic minimization of sequence of nonnegative convex functions. (English summary) **2005i:90046**
Yan, Zhaoxiang (*with* Li, Shi Zheng) A new class of generalized convex programming. (English summary) **2005j:90061**
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Zheng, Xi Yin (*with* Ng, Kung Fu) Metric regularity and constraint qualifications for convex inequalities on Banach spaces. (English summary) **2005f:90087**
Zuluaga, Luis F. (*with* Peña, Javier F.) A conic programming approach to generalized Tchebycheff inequalities. (English summary) **2005m:90085**

Items with secondary classifications in 90C25

Ahuja, Ravindra K. *see* **Romeijn, H. Edwin et al., 2005m:90175**
Akkeleş, Arif A. (*with* Balogh, László; Illés, Tibor) New variants of the criss-cross method for linearly constrained convex quadratic programming. (English summary) **2005b:90084**
Alvarez, Felipe Weak convergence of a relaxed and inertial hybrid projection-proximal point algorithm for maximal monotone operators in Hilbert space. (English summary) **2005f:49013**
— (*with* Bolte, Jérôme; Brahic, Olivier) Hessian Riemannian gradient flows in convex programming. (English summary) **2005c:34116**
Amirgalieva, S. N. (*with* Ostapenko, Valentin Vladimirovich; Ostapenko, E. V.) Investigation of matrix-convex functions. (Russian. English and Ukrainian summaries) **2005k:91062**
Ammar, E. E. On generalized convexity of fuzzy variables maps. (English summary) **2005c:90128**
Antczak, Tadeusz Relationships between pre-invex concepts. (English summary) **2005g:90135**
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Azé, Dominique (*with* Corvellec, Jean-Noël) Characterizations of error bounds for lower semicontinuous functions on metric spaces. (English summary) **2005e:49027**
Bai, Fu-sheng *see* **Wu, Zhi You et al., 2005f:90092**
Balandin, D. V. (*with* Kogan, M. M.) Design of an optimal robust H^∞-control by convex optimization methods. (Russian. Russian summary) **2005h:93048**
Balogh, László *see* **Akkeleş, Arif A. et al., 2005b:90084**
Bercu, Gabriel Finslerian convexity on positive orthant. (English summary) **2005h:53026**
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Bolte, Jérôme *see* **Alvarez, Felipe et al., 2005c:34116**
Borwein, Jonathan Michael (*with* Vanderwerff, Jon D.) Constructible convex sets. (English summary) **2005g:49028**
Boţ, Radu Ioan (*with* Wanka, Gert) An analysis of some dual problems in multiobjective optimization. I, II. (English summary) **2005c:49072**
Boyd, Stephen P. (*with* Vandenberghe, Lieven) ★ Convex optimization. **2005d:90002**
— (*with* Diaconis, Persi; Xiao, Lin[3]) Fastest mixing Markov chain on a graph. (English summary) **2005j:90058**
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Chen, Feng[3] *see* **Zhang, Feng[1] et al., 2005k:90050**
Chen, Ye Hua (*with* Chen, Zhen Long) The maximum entropy function sequence for convex programming and its convergence. (Chinese. English and Chinese summaries) **2005j:90097**
Chen, Zhen Long *see* **Chen, Ye Hua, 2005j:90097**
Cheng, Hao (*with* Fang, Shu-Cherng; Lavery, John E.) An efficient algorithm for generating univariate cubic L_1 splines. (English summary) **2005h:65015**
Chrétienne, Philippe (*with* Sourd, Francis) PERT scheduling with convex cost functions. (English summary) **2005a:90061**
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Combettes, Patrick L. (*with* Pesquet, Jean-Christophe) Wavelet-constrained image restoration. (English summary) **2005g:94008**
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— Continuity and differentiability of quasiconvex functions. (English summary) (*see* **2005i:90003**)
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Đinh Thế Lục Generalized convexity in vector optimization. (English summary) (*see* **2005i:90003**)
— *see also* **Generalized convexity, generalized monotonicity and applications, 2005f:90004**
Dulliev, A. M. (*with* Zabotin, V. I.) An iterative algorithm for projecting a point onto a nonconvex manifold in a normed linear space. (Russian. Russian summary) **2005e:41086**
Dutta, Joydeep (*with* Chandra, Suresh) Convexifactors, generalized convexity and vector optimization. (English summary) **2005b:90099**
— (*with* Martínez-Legaz, Juan Enrique; Rubinov, Aleksandr M.) Monotonic analysis over cones. II. (English summary) **2005h:49036**
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Emam, Tarek *see* **Youness, Ebrahim A., 2005k:26039**
Esenkov, A. S. (*with* Ishmukhametov, A. Z.; Karyukina, Yu. G.) Regularized projection and conditional gradient methods in convex finite-dimensional optimization problems. (Russian. Russian summary) **2005j:90102**
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Frenk, Johannes B. G. (*with* Kassay, Gábor) Introduction to convex and quasiconvex analysis. (English summary) (*see* **2005i:90003**)
Freund, Robert M. Complexity of convex optimization using geometry-based measures and a reference point. (English summary) **2005c:90126**
— (*with* Ordóñez, Fernando) On an extension of condition number theory to nonconic convex optimization. (English summary) **2005k:90227**
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Geromel, Jose C. (*with* Kawaoka, F. R. R.; Egas, R. G.) Model reduction of discrete time systems through linear matrix inequalities. (English summary) **2005d:93088**
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Gröwe-Kuska, Nicole (*with* Kiwiel, Krzysztof C.; Nowak, Matthias P.; Römisch, Werner; Wegner, Isabel) Power management in a hydro-thermal system under uncertainty by Lagrangian relaxation. (English summary) **2005c:90058**

Grzybowski, Jerzy (*with* Urbański, Ryszard) On reduced pairs of bounded closed convex sets. (English summary) **2005e:52013**
Hadigheh, Alireza Ghafari (*with* Terlaky, Tamás) Sensitivity analysis in convex quadratic optimization: invariant support set interval. (English summary) **2005i:90075**
Hadjisavvas, Nicolas (*with* Schaible, Siegfried) Generalized monotone maps. (English summary) (*see* **2005i:90003**)
— Generalized convexity, generalized monotonicity and nonsmooth analysis. (English summary) (*see* **2005i:90003**)
— *see also* **Generalized convexity, generalized monotonicity and applications**, **2005f:90004**
Halim, Dunant *see* **Moheimani, S. O. Reza**
He, Bing-sheng (*with* Yang, Hai[1]; Zhang, Chen-song) A modified augmented Lagrangian method for a class of monotone variational inequalities. (English summary) **2005b:49022**
— (*with* Wang, Yu-mei) Smoothing by convex quadratic programming. (English summary) **2005j:90056**
Helmberg, Christoph A cutting plane algorithm for large scale semidefinite relaxations. (English summary) (*see* **2005b:90009**)
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Hoang Xuan Phu Is invexity weaker than convexity? (English summary) **2005a:90127**
Hua, Yi Ming (*with* Xu, Shu Sheng) Best approximation from the intersection of two polyhedra and its application to convex regression. (Chinese. English and Chinese summaries) **2005h:41044**
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Huang, Xue Xiang (*with* Yang, Xiao Qi; Teo, Kok Lay) Characterizing nonemptiness and compactness of the solution set of a convex vector optimization problem with cone constraints and applications. (English summary) **2005i:90059**
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Jafarizadeh, M. A. (*with* Mirzaee, M.; Rezaee, M.) Exact calculation of robustness of entanglement via convex semi-definite programming. (English summary) **2005g:81033**
Jeyakumar, V. (*with* Lee, Gue Myung; Nguyen Dinh) New sequential Lagrange multiplier conditions characterizing optimality without constraint qualification for convex programs. (English summary) **2005a:90178**
John, Reinhard Uses of generalized convexity and generalized monotonicity in economics. (English summary) (*see* **2005i:90003**)
Kanzow, Christian (*with* Yamashita, Nobuo; Fukushima, Masao) Levenberg-Marquardt methods with strong local convergence properties for solving nonlinear equations with convex constraints. (English summary) **2005h:65084a**
— (*with* Yamashita, Nobuo; Fukushima, Masao) Levenberg-Marquardt methods with strong local convergence properties for solving nonlinear equations with convex constraints. (English summary) **2005h:65084b**
Kaplan, A. A. (*with* Tichatschke, R.) Extended auxiliary problem principle to variational inequalities involving multi-valued operators. (English summary) **2005b:49023**
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Kim, Hong Oh *see* **Kim, Hyoung Seok et al.**, **2005b:70003**
Kim, Hyoung Seok (*with* Kim, Hong Oh; Shin, Sung Yong) Collision detection algorithm of a continuous type using spherical extreme vertex diagrams. (English summary) **2005b:70003**
King, Alan J. (*with* Koivu, Matti; Pennanen, Teemu) Calibrated option bounds. (English summary) **2005m:91107**
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Klibanov, Michael V. (*with* Timonov, A. A.) ★ Carleman estimates for coefficient inverse problems and numerical applications. **2005k:65107**
Kogan, M. M. *see* **Balandin, D. V.**, **2005h:93048**
Kohsaka, Fumiaki (*with* Takahashi, Wataru) Strong convergence of an iterative sequence for maximal monotone operators in a Banach space. (English summary) **2005e:47113**
— (*with* Takahashi, Wataru) Minimization theorem in a Banach space and its applications. (English summary) **2005h:49014**
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Laghdir, Mohamed Some remarks on subdifferentiability of convex functions. (English summary) **2005k:49051**
Lagoa, Constantino M. (*with* Li, Xiang[4]; Sznaier, Mario) Probabilistically constrained linear programs and risk-adjusted controller design. (English summary) **2005m:90072**
Lai, Bogumila *see* **Dentcheva, Darinka et al.**, **2005f:90077**
Lasserre, Jean-Bernard Correction: "Bounds on measures satisfying moment conditions" [Ann. Appl. Probab. **12** (2002), no. 3, 1114–1137; MR1925454 (2003g:28012)]. **2005b:28009**
La Torre, Davide *see* **Cusano, Claudio et al.**, **2005i:49017**
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Lu, Zhaosong (*with* Monteiro, Renato D. C.) Error bounds and limiting behavior of weighted paths associated with the SDP map $X^{1/2}SX^{1/2}$. (English summary) **2005m:90079**
Lyashko, S. I. (*with* Rublev, B. V.) Minimal ellipsoids and maximal simplexes in three-dimensional Euclidean space. (Russian. English and Ukrainian summaries) **2005h:52008**
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— *see also* **Dutta, Joydeep et al.**, **2005h:49036**
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Matsushita, Shin-ya (*with* Takahashi, Wataru) Weak and strong convergence theorems for relatively nonexpansive mappings in Banach spaces. **2005a:47097**
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Mittelmann, Hans D. *see* **Kuo, Yu-Ju**, **2005e:90157**
Moheimani, S. O. Reza (*with* Halim, Dunant) A convex optimization approach to the mode acceleration problem. (English summary)
Monteiro, Renato D. C. *see* **Lu, Zhaosong**, **2005m:90079**
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— A remark on the convergence of the Tikhonov regularization without monotonicity. (English summary) **2005a:49033**
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Nesterov, Yurii ★ Introductory lectures on convex optimization. **2005k:90001**
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— *see also* **Zheng, Xi Yin**, **2005f:90129**
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Onn, Shmuel (*with* Rothblum, Uriel G.) Convex combinatorial optimization. (English summary) **2005h:90109**
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Park, Juhyun[1] Novel robust stability criterion for a class of neutral systems with mixed delays and nonlinear perturbations. (English summary) **2005h:93125**
Peña, Javier F. Conic systems and sublinear mappings: equivalent approaches. (English summary) **2005g:15004**
Pennanen, Teemu Epi-convergent discretizations of multistage stochastic programs. (English summary) **2005k:90093**
— *see also* **King, Alan J. et al.**, **2005m:91107**
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Rublev, B. V. *see* **Lyashko, S. I.**, **2005h:52008**
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Santi, Elisabetta *see* **Micula, Gheorghe et al.**, **2005h:41015**
Schaible, Siegfried *see* **Hadjisavvas, Nicolas**, (**2005i:90003**)
Schittkowski, Klaus *see* **Zillober, Ch. et al.**, **2005a:90098**
Schulz, Andreas S. *see* **Correa, José R. et al.**, **2005g:90013**
Shin, Sung Yong *see* **Kim, Hyoung Seok et al.**, **2005b:70003**
Shioura, Akiyoshi *see* **Murota, Kazuo**, **2005h:90108**
Slavov, Zdravko Dimitrov (*with* Evans, Christina S.) On the structure of the efficient set. (English and Bulgarian summaries) (*see* **2005f:00011**)
Sourd, Francis *see* **Chrétienne, Philippe**, **2005a:90061**
Stier Moses, Nicolás E. *see* **Correa, José R. et al.**, **2005g:90013**
Strodiot, Jean-Jacques *see* **Nguyen Thi Thu Van et al.**, **2005k:90210**
Sun, Jie *see* **Zhou, Guang Lu et al.**, **2005j:90060**
Sznaier, Mario *see* **Lagoa, Constantino M. et al.**, **2005m:90072**
Takahashi, Wataru *see* **Ohsawa, Shigeo**, **2005a:47090**; **Matsushita, Shin-ya**, **2005a:47097**; **Kohsaka, Fumiaki**, **2005e:47113** *and* **2005h:49014**

Tamura, Akihisa A coordinatewise domain scaling algorithm for M-convex function minimization. (English summary) (*see* **2005a:90006**)
— On convolution of L-convex functions. (English summary) **2005b:90110**
Tang, Guochun *see* **Zhang, Feng[1] et al., 2005k:90050**
Teo, Kok Lay *see* **Liu, Yan Qun et al., 2005g:90155** *and* **Huang, Xue Xiang et al., 2005i:90059**
Terlaky, Tamás *see* **Hadigheh, Alireza Ghafari, 2005i:90075**
Tichatschke, R. *see* **Kaplan, A. A., 2005b:49023**
Timonov, A. A. *see* **Klibanov, Michael V., 2005k:65107**
Todorov, Maxim Ivanov *see* **Goberna, M. A. et al., 2005k:90180**
Toh, Kim-Chuan *see* **Zhou, Guang Lu et al., 2005j:90060**
Truong Quang Bao (*with* Phan Quốc Khánh) A projection-type algorithm for pseudomonotone nonlipschitzian multivalued variational inequalities. (English summary) **2005k:49033**
Tsai, Kuen-Yu (*with* Hindi, Haitham A.) DQIT: μ-synthesis without D-scale fitting. (English summary) **2005f:93055**
Urbański, Ryszard *see* **Grzybowski, Jerzy, 2005e:52013**
Vandenberghe, Lieven *see* **Boyd, Stephen P., 2005d:90002**
Vanderwerff, Jon D. *see* **Borwein, Jonathan Michael, 2005g:49028**
Wang, Jian Yong[2] (*with* Ma, Yu-Mei) The integral convexity of sets and functionals in Banach spaces. (English summary) **2005f:28027**
Wang, Jun Ling[1] A new infeasible-interior-point algorithm for separable convex quadratic programming. (Chinese. English and Chinese summaries) **2005a:90189**
Wang, Xianmin (*with* Lu, Wu-Sheng; Antoniou, Andreas) Multiuser detectors for synchronous DS-CDMA systems based on a recursive p-norm convex relaxation approach. (English summary)
Wang, Yu-mei *see* **He, Bing-sheng, 2005j:90056**
Wanka, Gert *see* **Boţ, Radu Ioan, 2005c:49072**
Wardi, Yoraï *see* **Moon, Jeongseung, 2005m:93097**
Wegner, Isabel *see* **Gröwe-Kuska, Nicole et al., 2005c:90058**
Wu, Soon-Yi (*with* Fang, Shu-Cherng) Foreword [Special Issue on the International Conference on Optimization and Optimal Control (ICOOC)].
— *see also* **Liu, Yan Qun et al., 2005g:90155**
Wu, Zhi You (*with* Zhang, Lian Sheng; Bai, Fu-sheng; Yang, Xin Min) Convexification and concavification methods for some global optimization problems. (English summary) **2005f:90092**
Xiao, Lin[3] *see* **Boyd, Stephen P. et al., 2005j:90058**
Xin, Xin Reduced-order controllers for the H_∞ control problem with unstable invariant zeros. (English summary) **2005m:93051**
Xu, Shu Sheng *see* **Hua, Yi Ming, 2005h:41044**
Yamashita, Nobuo *see* **Kanzow, Christian et al., 2005h:65084a** *and* **2005h:65084b**
Yang, Hai[1] *see* **He, Bing-sheng et al., 2005b:49022**
Yang, Qingzhi The relaxed CQ algorithm solving the split feasibility problem. (English summary) **2005e:65058**
Yang, Xiao Qi *see* **Qi, Houduo, 2005b:49040** *and* **Huang, Xue Xiang et al., 2005i:90059**
Yang, Xin Min *see* **Wu, Zhi You et al., 2005f:90092**
Yao, David D. (*with* Zhang, Shu Zhong; Zhou, Xun Yu) Stochastic linear-quadratic control via primal-dual semidefinite programming. (English summary) **2005h:93178**
Yong, Long Quan (*with* Liu, San Yang) A new method for ball constrained convex quadratic programming. (Chinese. English and Chinese summaries)
Youness, Ebrahim A. (*with* Emam, Tarek) Strongly E-convex sets and strongly E-convex functions. (English summary) **2005k:26039**
Zabotin, V. I. *see* **Dulliev, A. M., 2005e:41086**
Zhang, Bin[2] (*with* Hua, Zhong Sheng) An improved Lemke algorithm for convex quadratic programming with equality constraints. (Chinese. English and Chinese summaries)
Zhang, Chen-song *see* **He, Bing-sheng et al., 2005b:49022**
Zhang, Feng[1] (*with* Chen, Feng[3]; Tang, Guochun) Convex quadratic programming relaxations for parallel machine scheduling with controllable processing times subject to release times. (English summary) **2005k:90050**
Zhang, Lian Sheng *see* **Wu, Zhi You et al., 2005f:90092**
Zhang, Shu Zhong *see* **Yao, David D. et al., 2005h:93178**
Zhang, Wei Guo[2] (*with* Nie, Zan Kan) On admissible efficient portfolio selection problem. (English summary) **2005g:91116**
Zhao, Gongyun A Lagrangian dual method with self-concordant barriers for multi-stage stochastic convex programming. (English summary) **2005h:90083**
Zheng, Xi Yin (*with* Ng, Kung Fu) Error bound moduli for conic convex systems on Banach spaces. (English summary) **2005f:90129**
— *see also* **Ng, Kung Fu, 2005c:90094**
Zhou, Guang Lu (*with* Toh, Kim-Chuan; Sun, Jie) Efficient algorithms for the smallest enclosing ball problem. (English summary) **2005j:90060**
Zhou, Xun Yu *see* **Yao, David D. et al., 2005h:93178**
Zillober, Ch. (*with* Schittkowski, Klaus; Moritzen, K.) Very large scale optimization by sequential convex programming. (English summary) **2005a:90098**
Zlobec, Sanjo Saddle-point optimality: a look beyond convexity. (English summary) **2005f:90093**

Items listed otherwise than by author

Generalized convexity, generalized monotonicity and applications ★ Generalized convexity, generalized monotonicity and applications. **2005f:90004**
Hanoi ★ Generalized convexity, generalized monotonicity and applications. **2005f:90004**

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Andramonov, Mikhail Algorithms for the global maximization of increasing functions. (Russian) **2005a:90125**
Antczak, Tadeusz An η-approximation approach for nonlinear mathematical programming problems involving invex functions. (English summary) **2005j:90062**
Bai, Feng Shan *see* **Liang, Heng et al., 2005i:90049**
Bai, Fu-sheng *see* **Wu, Zhi You et al., 2005f:90092** *and* **2005m:90091**
Barhen, Jacob *see* **Protopopescu, Vladimir A., 2005m:90089**
Benson, H. P. On the global optimization of sums of linear fractional functions over a convex set. (English summary) **2005d:90090**
Bolton, Hermanus P. J. *see* **Snyman, Jan A. et al., (2005a:90005)**
Borradaile, Glencora (*with* Van Hentenryck, Pascal) Safe and tight linear estimators for global optimization. (English summary) **2005k:90110**
Cambini, Riccardo (*with* Carosi, Laura) On generalized linearity of quadratic fractional functions. (English summary) **2005i:90047**
Campêlo, Manoel *see* **de Sabóia, Carlos Henrique Medeiros et al., 2005g:90108**
Cao, Dexin *see* **Sun, Jing, 2005k:90117**
Caratzoulas, S. (*with* Floudas, Christodoulos A.) Trigonometric convex underestimator for the base functions in Fourier space. (English summary) **2005m:90086**
Carosi, Laura *see* **Cambini, Riccardo, 2005i:90047**
Carrizosa, Emilio (*with* Hansen, Pierre; Messine, Frédéric) Improving interval analysis bounds by translations. (English summary) **2005e:90092**
Casado, L. G. *see* **Martínez, J. A. et al., 2005b:90102**
Chandra, Suresh *see* **Dutta, Joydeep, 2005b:90099**
Colson, Benoît (*with* Marcotte, Patrice; Savard, Gilles) A trust-region method for nonlinear bilevel programming: algorithm and computational experience. (English summary) **2005k:90111**
Csendes, Tibor *see* **Szabó, Péter Gábor et al.**
Demirhan, M. B. *see* **Özdamar, Linet et al., (2005a:90005)**
Depa, P. *see* **Lucia, A. et al., 2005h:90101**
Dimaggio, P. A. *see* **Lucia, A. et al., 2005h:90101**
Dua, Vivek (*with* Papalexandri, K. P.; Pistikopoulos, Efstratios N.) Global optimization issues in multiparametric continuous and mixed-integer optimization problems. (English summary) **2005h:90097**
Dutta, Joydeep (*with* Chandra, Suresh) Convexifactors, generalized convexity and vector optimization. (English summary) **2005b:90099**
van Emden, M. H. (*with* Moa, B.) Termination criteria in the Moore-Skelboe algorithm for global optimization by interval arithmetic. (English summary) **2005c:90070**
Faybusovich, Leonid Global optimization of homogeneous polynomials on the simplex and on the sphere. (English summary) **2005a:90126**
Feng, En Min (*with* Qian, Weiyi) A stochastic approach to global optimization of nonlinear programming problem with many equality constraints. (English summary) **2005d:90091**
Floudas, Christodoulos A. *see* **Meyer, Clifford A., 2005a:90128** *and* **Caratzoulas, S., 2005m:90086**
Fuduli, Antonio (*with* Gaudioso, M.; Giallombardo, G.) Minimizing nonconvex nonsmooth functions via cutting planes and proximity control. (English summary) **2005f:90088**
— (*with* Gaudioso, M.; Giallombardo, G.) A DC piecewise affine model and a bundling technique in nonconvex nonsmooth minimization. (English summary) **2005e:90093**
Galewski, Marek A note on invex problems with nonnegative variable. (English summary) **2005i:90048**
García-Fernández, I. *see* **Martínez, J. A. et al., 2005b:90102**
Garloff, J. (*with* Smith, Andrew P.) An improved method for the computation of affine lower bound functions for polynomials. (English summary) **2005b:90100**
Gasimov, Rafail N. (*with* Ismayilova, Nergiz A.) The modified subgradient method for equality constrained nonconvex optimization problems. (English summary) **2005m:90087**
Gaudioso, M. *see* **Fuduli, Antonio et al., 2005e:90093** *and* **2005f:90088**
Giallombardo, G. *see* **Fuduli, Antonio et al., 2005e:90093** *and* **2005f:90088**
Groenwold, Albert A. *see* **Snyman, Jan A. et al., (2005a:90005)**
Hamdi, Abdelouahed Two-level primal-dual proximal decomposition technique to solve large scale optimization problems. (English summary) **2005h:90098**
— A Moreau-Yosida regularization of a difference of two convex functions. (English summary) **2005k:90112**
Hansen, Pierre *see* **Carrizosa, Emilio et al., 2005e:90092**
Hoang Xuan Phu Is invexity weaker than convexity? (English summary) **2005a:90127**
Horst, R. (*with* Nguyen Van Thoai) On an optimality condition in DC optimization. Errata to: "DC programming: overview" [J. Optim. Theory Appl. **103** (1999), no. 1, 1–43; MR1715016 (2000g:90051)]. (English summary) **2005b:90101**
Huang, Ying Quan (*with* Zhao, Ke Quan) E-convex sets, E-convex functions and semi-E-convex functions. (Chinese. English and Chinese summaries)
Ismayilova, Nergiz A. *see* **Gasimov, Rafail N., 2005m:90087**
Ito, Kazufumi (*with* Kunisch, Karl) The primal-dual active set method for nonlinear optimal control problems with bilateral constraints. (English summary) **2005d:90092**
Jian, Jin Bao On (E, F) generalized convexity. (English summary) **2005f:90089**
Kallrath, Josef Exact computation of global minima of a nonconvex portfolio optimization problem. (English summary) (*see* **2005a:90005**)
Konno, Hiroshi Applications of global optimization to portfolio analysis. (English summary)
Kreinovich, Vladik Probabilities, intervals, what next? Optimization problems related to extension of interval computations to situations with partial information about probabilities. (English summary) **2005k:90113**
Kucherenko, Sergei *see* **Liberti, Leo, 2005k:90114**
Kumar, Arun[4] *see* **Wu, Yong[1] et al.**
Kunisch, Karl *see* **Ito, Kazufumi, 2005d:90092**
Lagouanelle, Jean-Louis (*with* Soubry, Gérard) Optimal multisections in interval branch-and-bound methods of global optimization. (English summary) **2005h:90099**
Lavor, Carlile (*with* Maculan, Nelson) A function to test methods applied to global minimization of potential energy of molecules. (English summary)
Liang, Heng (*with* Bai, Feng Shan; Shi, Leyuan) Computing the optimal partition of variables in multi-homogeneous homotopy methods. (English summary) **2005i:90049**
Liberti, Leo On a class of nonconvex problems where all local minima are global. (English summary) **2005i:90050**
— (*with* Kucherenko, Sergei) Comparison of deterministic and stochastic approaches to global optimization. (English summary) **2005k:90114**
Lin, Youdong (*with* Stadtherr, M. A.) Advances in interval methods for deterministic

global optimization in chemical engineering. (English summary) **2005h:90100**

Lin, Zheng Hua *see* **Zhu, Dao Li et al., 2005b:90103** *and* **Xu, Qing**

Liou, Yeong-Cheng (*with* Yao, Jen Chih) Bilevel decision via variational inequalities. (English summary) **2005k:90115**

Liu, Jenn-Long Novel orthogonal simulated annealing with fractional factorial analysis to solve global optimization problems. (English summary)

Locatelli, Marco On the multilevel structure of global optimization problems. (English summary) **2005i:90051**

Long, Xian-Jun *see* **Peng, Jianwen, 2005g:90106**

Lu, Qi-hui (*with* Zhu, Dao Li) Some characterizations of locally Lipschitz pseudolinear functions. (English and Chinese summaries) **2005k:90116**

Lucia, A. (*with* Dimaggio, P. A.; Depa, P.) A geometric terrain methodology for global optimization. (English summary) **2005h:90101**

Lukšan, Ladislav (*with* Matonoha, Ctirad; Vlček, Jan) Nonsmooth equation method for nonlinear nonconvex optimization. **2005e:90094**

Luo, Hezhi (*with* Wu, Huixian; Zhu, Yihua) Remarks on criteria of prequasi-invex functions. (English summary)

Maculan, Nelson *see* **Lavor, Carlile**

Marcotte, Patrice *see* **Colson, Benoît et al., 2005k:90111**

Markót, Mihály Csaba *see* **Szabó, Péter Gábor et al.**

Martínez, J. A. (*with* Casado, L. G.; García-Fernández, I.; Tóth, Boglárka) AMIGO: advanced multidimensional interval analysis global optimization algorithm. (English summary) **2005b:90102**

Martínez-Legaz, Juan Enrique (*with* Rubinov, Aleksandr M.; Schaible, Siegfried) Increasing quasiconcave co-radiant functions with applications in mathematical economics. (English summary) **2005m:90088**

Matonoha, Ctirad *see* **Lukšan, Ladislav et al., 2005e:90094**

Messine, Frédéric *see* **Carrizosa, Emilio et al., 2005e:90092**

Meyer, Clifford A. (*with* Floudas, Christodoulos A.) Trilinear monomials with positive or negative domains: facets of the convex and concave envelopes. (English summary) **2005a:90128**

— (*with* Floudas, Christodoulos A.) Trilinear monomials with mixed sign domains: facets of the convex and concave envelopes. (English summary)

Meziat, René J. Analysis of non convex polynomial programs by the method of moments. (English summary) **2005a:90129**

Mititelu, Ştefan An equivalency condition of the invexity and preinvexity notions in optimization theory. (English summary) **2005f:90090**

Moa, B. *see* **van Emden, M. H., 2005c:90070**

Nguyen Van Thoai *see* **Horst, R., 2005b:90101**

Onbaşoğlu, Esin *see* **Özdamar, Linet et al., (2005a:90005)**

Osuna-Gómez, R. *see* **Ruiz-Garzón, G. et al., 2005a:90130**

Özdamar, Linet (*with* Demirhan, M. B.; Onbaşoğlu, Esin) Pre-search screening: a technique to improve search efficiency in global optimization. (English summary) (*see* **2005a:90005**)

— *see also* **Wu, Yong[1] et al.**

Papalexandri, K. P. *see* **Dua, Vivek et al., 2005h:90097**

Peng, Jianwen (*with* Long, Xian-Jun) A remark on preinvex functions. **2005g:90106**

Phan Thiên Thạch Equilibrium prices and quasiconvex duality. (English summary) **2005g:90107**

Pistikopoulos, Efstratios N. *see* **Dua, Vivek et al., 2005h:90097**

Porembski, Marcus Cutting planes for low-rank-like concave minimization problems. (English summary) **2005f:90091**

Protopopescu, Vladimir A. (*with* Barhen, Jacob) Quantum algorithm for continuous global optimization. (English summary) **2005m:90089**

Pu, Zhi Qin *see* **Wang, Cheng et al., 2005k:90118**

Qian, Weiyi *see* **Feng, En Min, 2005d:90091**

Rubinov, Aleksandr M. *see* **Martínez-Legaz, Juan Enrique et al., 2005m:90088**

Rufián-Lizana, A. *see* **Ruiz-Garzón, G. et al., 2005a:90130**

Ruiz-Garzón, G. (*with* Osuna-Gómez, R.; Rufián-Lizana, A.) Relationships between vector variational-like inequality and optimization problems. (English summary) **2005a:90130**

de Sabóia, Carlos Henrique Medeiros (*with* Campêlo, Manoel; Scheimberg, Susana) A computational study of global algorithms for linear bilevel programming. (English summary) **2005g:90108**

Sahinidis, Nikolaos V. *see* **Tawarmalani, Mohit, 2005m:90090**

Savard, Gilles *see* **Colson, Benoît et al., 2005k:90111**

Schaible, Siegfried *see* **Martínez-Legaz, Juan Enrique et al., 2005m:90088**

Scheimberg, Susana *see* **de Sabóia, Carlos Henrique Medeiros et al., 2005g:90108**

Scholtes, Stefan Nonconvex structures in nonlinear programming. (English summary) **2005a:90131**

Shi, Kui Ran *see* **Wang, Cheng et al., 2005k:90118**

Shi, Leyuan *see* **Liang, Heng et al., 2005i:90049**

Smith, Andrew P. *see* **Garloff, J., 2005b:90100**

Snyman, Jan A. (*with* Bolton, Hermanus P. J.; Groenwold, Albert A.) A multi-start methodology for constrained global optimization using novel constrained local optimizers. (English summary) (*see* **2005a:90005**)

Soubry, Gérard *see* **Lagouanelle, Jean-Louis, 2005h:90099**

Souza de Cursi, J. E. Representation and numerical determination of the global optimizer of a continuous function on a bounded domain. (English summary) **2005a:90132**

Stadtherr, M. A. *see* **Lin, Youdong, 2005h:90100**

Sun, Jing (*with* Cao, Dexin) An interval algorithm for univariate Lipschitz global optimization. (English and Chinese summaries) **2005k:90117**

Szabó, Péter Gábor (*with* Markót, Mihály Csaba; Csendes, Tibor) Global optimization in geometry—circle packing into the square. (English summary)

Tardella, Fabio On the existence of polyhedral convex envelopes. (English summary) **2005a:90133**

Tawarmalani, Mohit (*with* Sahinidis, Nikolaos V.) A polyhedral branch-and-cut approach to global optimization. (English summary) **2005m:90090**

Teo, Kok Lay *see* **Yang, Xin Min et al.**

Tóth, Boglárka *see* **Martínez, J. A. et al., 2005b:90102**

Tseng, Paul Convergence properties of Dikin's affine scaling algorithm for nonconvex quadratic minimization. (English summary) **2005i:90052**

— An analysis of the EM algorithm and entropy-like proximal point methods. (English summary) **2005d:90093**

Van Hentenryck, Pascal *see* **Borradaile, Glencora, 2005k:90110**

Vlček, Jan *see* **Lukšan, Ladislav et al., 2005e:90094**

Wang, Cheng (*with* Shi, Kui Ran; Pu, Zhi Qin) A class of interval methods for global optimization. (Chinese. English and Chinese summaries) **2005k:90118**

Wang, Xing Guo p-Quasiconvex functions and some related problems. (Chinese. English and Chinese summaries)

Wu, Huixian *see* **Luo, Hezhi et al.**

Wu, Yong[1] (*with* Özdamar, Linet; Kumar, Arun[4]) TRIOPT: a triangulation-based partitioning algorithm for global optimization. (English summary)

Wu, Zhi You (*with* Zhang, Lian Sheng; Bai, Fu-sheng; Yang, Xin Min) Convexification and concavification methods for some global optimization problems. (English summary) **2005f:90092**

— (*with* Bai, Fu-sheng; Zhang, Lian Sheng) Convexification and concavification for a general class of global optimization problems. (English summary) **2005m:90091**

Xu, Cheng Xian *see* **Xue, Hong-gang**

Xu, Qing (*with* Lin, Zheng Hua) The combined homotopy convergence in unbounded set. (Chinese. English and Chinese summaries)

— *see also* **Zhu, Dao Li et al., 2005b:90103**

Xue, Hong-gang (*with* Xu, Cheng Xian) A branch and bound algorithm for solving a class of D-C programming. (English summary)

Yang, Xiao Qi *see* **Yang, Xin Min et al.**

Yang, Xin Min (*with* Yang, Xiao Qi; Teo, Kok Lay) Two properties of semistrictly preinvex functions. (English summary)

— *see also* **Wu, Zhi You et al., 2005f:90092**

Yao, Jen Chih *see* **Liou, Yeong-Cheng, 2005k:90115**

Ye, Jane J. Necessary and sufficient optimality conditions for mathematical programs with equilibrium constraints. (English summary) **2005m:90092**

Zhang, Lian Sheng *see* **Wu, Zhi You et al., 2005f:90092** *and* **2005m:90091**

Zhao, Ke Quan *see* **Huang, Ying Quan**

Zhu, Dao Li (*with* Xu, Qing; Lin, Zheng Hua) A homotopy method for solving bilevel programming problem. (English summary) **2005b:90103**

— *see also* **Lu, Qi-hui, 2005k:90116**

Zhu, Yihua *see* **Luo, Hezhi et al.**

Zlobec, Sanjo Saddle-point optimality: a look beyond convexity. (English summary) **2005f:90093**

Items with secondary classifications in 90C26

Ahmad, Izhar (*with* Husain, Z.) Nondifferentiable second-order symmetric duality. (English summary) **2005k:90204**

Akrotirianakis, Ioannis G. (*with* Floudas, Christodoulos A.) Computational experience with a new class of convex underestimators: Box-constrained NLP problems. (English summary) **2005h:90171**

Antczak, Tadeusz Relationships between pre-invex concepts. (English summary) **2005g:90135**

Arsham, Hossein Tight bounding of continuous functions over polyhedrons: a new introduction to exact global optimization. (English summary)

Arzelier, Denis *see* **Peaucelle, Dimitri, 2005m:93044**

Audet, Charles (*with* Hansen, Pierre; Le Digabel, Sébastien) Exact solution of three nonconvex quadratic programming problems. (English summary) **2005a:90118**

Azé, Dominique (*with* Corvellec, Jean-Noël) Characterizations of error bounds for lower semicontinuous functions on metric spaces. (English summary) **2005e:49027**

Baccari, A. On the classical necessary second-order optimality conditions. (English summary) **2005i:90066**

Balbas de la Corte, Alejandro (*with* Galperin, Efim A.; Jiménez Guerra, P.) Nonsmooth nonconvex global optimization in a Banach space with a basis. (English summary) **2005f:90113**

Balogh, János (*with* Csendes, Tibor; Rapcsák, Tamás) Some global optimization problems on Stiefel manifolds. (English summary) **2005g:90170**

Barton, Paul I. *see* **Singer, A. B., 2005a:49059**

Benkenza, N. *see* **Laghdir, Mohamed et al., 2005e:90155**

(Benoist, J.) *see* **Nguyen Quang Huy, 2005i:90061**

Bernard, Frédéric (*with* Thibault, Lionel) Uniform prox-regularity of functions and epigraphs in Hilbert spaces. (English summary) **2005h:49035**

Bianchi, Monica (*with* Pini, Rita) Coercivity conditions for equilibrium problems. (English summary) **2005k:90206**

Birgin, Ernesto G. (*with* Castillo, R. A.; Martínez, José Mario) Numerical comparison of augmented Lagrangian algorithms for nonconvex problems. (English summary) **2005m:90114**

Bouhadi, M. *see* **Souza de Cursi, J. E. et al., 2005d:90140**

Cambini, Alberto (*with* Martein, Laura; Schaible, Siegfried) On the pseudoconvexity of the sum of two linear fractional functions. (English summary) **2005g:90148**

Cambini, Riccardo (*with* Carosi, Laura) Duality in multiobjective optimization problems with set constraints. (English summary) **2005i:90056**

— (*with* Carosi, Laura; Schaible, Siegfried) Duality in fractional programming problems with set constraints. (English summary) **2005g:90149**

Carosi, Laura *see* **Cambini, Riccardo et al., 2005g:90149** *and* **2005i:90056**

Castillo, R. A. *see* **Birgin, Ernesto G. et al., 2005m:90114**

Chachuat, B. (*with* Latifi, M. A.) A new approach in deterministic global optimisation of problems with ordinary differential equations. (English summary) (*see* **2005a:90005**)

Chauvier, Laurent (*with* Fuduli, Antonio; Gilbert, Jean Charles) A truncated SQP algorithm for solving nonconvex equality constrained optimization problems. (English summary) **2005c:90118**

Chen, Shu-ping (*with* Li, Chong[1]; Li, Sheng Hong[1]; Wu, Xiong-wei) Portfolio optimization model with transaction costs. (English summary) **2005a:91057**

Chiappori, P. A. (*with* Ekeland, Ivar) Individual excess demands. (English summary) **2005f:91091**

Combettes, Patrick L. (*with* Pennanen, Teemu) Proximal methods for cohypomonotone operators. (English summary) **2005f:49045**
Coope, Ian D. *see* **Dennis, John E., Jr. et al., 2005i:90067**
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Ding, Zheng Shang (*with* Li, Hui Rong) Duality of a class of $(h, \varphi) - \rho_s$ invex programming. (Chinese. English and Chinese summaries)
(Đinh Thế Lục) *see* **Generalized convexity, generalized monotonicity and applications, 2005f:90004**
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— *see also* **Frontiers in global optimization, 2005a:90005** *and* **Akrotirianakis, Ioannis G., 2005h:90171**
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— *see also* **Wang, Yan Jun et al., 2005i:90071**
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— *see also* **Ng, Chi-Kong et al.**, 2005k:90082
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— *see also* **Gao, Yue Lin et al.**
Wu, Dong Hua *see* **Tian, Wei Wen et al.**, 2005e:90125
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Items listed otherwise than by author

Frontiers in global optimization ★ Frontiers in global optimization. **2005a:90005**
Generalized convexity, generalized monotonicity and applications ★ Generalized convexity, generalized monotonicity and applications. **2005f:90004**
Handbook:
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Santorini ★ Frontiers in global optimization. **2005a:90005**

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Adleman, Leonard (*with* Cheng, Qi; Goel, Ashish; Huang, Ming-Deh; Kempe, David; Moisset de Espanés, Pablo; Rothemund, Paul Wilhelm Karl) Combinatorial optimization problems in self-assembly. (English summary) (*see* **2005i:68004**)
Ageev, A. A. Algorithms with improved estimates for accuracy for the set covering problem. (Russian. Russian summary) **2005g:90109**
Aharoni, Ron (*with* Fleiner, Tamás) On a lemma of Scarf. (English summary) (*see* **2005a:90006**)
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Goel, Ashish *see* **Adleman, Leonard et al., (2005i:68004)**
Goemans, Michel X. (*with* Williamson, David P.) Approximation algorithms for MAX-3-CUT and other problems via complex semidefinite programming. (English summary) (*see* **2005j:68008**)
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Grundel, Don A. (*with* Oliveira, Carlos A. S.; Pardalos, Panos M.) Asymptotic properties of random multidimensional assignment problems. (English summary) **2005d:90096**
— (*with* Pardalos, Panos M.) Test problem generator for the multidimensional assignment problem. (English summary) **2005h:90106**
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— A short proof of Seymour's characterization of the matroids with the Max-Flow Min-Cut property. (English summary) (*see* **2005a:90006**)
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Heuberger, Clemens Inverse combinatorial optimization: a survey on problems, methods, and results. (English summary) **2005d:90098**
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Kochenberger, Gary A. (*with* Glover, Fred W.; Alidaee, Bahram; Rego, César) Solving combinatorial optimization problems via reformulation and adaptive memory metaheuristics. (English summary) (*see* **2005f:68006**)
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Lai, J. (*with* Moraga, Claudio; Meyer zu Bexten, E.) An improved genetic algorithm for the travelling-salesman problem. (English summary)
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Leonovich, A. M. *see* **Emelichev, Vladimir A. et al., 2005d:90095**
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Rothblum, Uriel G. A comment on: F. K. Hwang, Y. M. Wang and J. S. Lee, "Sortability of multi-partitions" [J. Global Optim. **24** (2002), no. 4, 463–472; MR1943842 (2003k:90055)]. (English summary) **2005c:90076**
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Sitters, René A. The minimum latency problem is NP-hard for weighted trees. (English summary) (*see* **2005a:90006**)
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Srinathan, K. (*with* Goundan, Pranava R.; Ashwin Kumar, M. V. N.; Nandakumar, Raghunathan; Pandu Rangan, C.) Theory of equal-flows in networks. (English summary) **2005d:90100**
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— On convolution of L-convex functions. (English summary) **2005b:90110**
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Aardal, Karen (*with* Lenstra, Arjen K.) Hard equality constrained integer knapsacks. (English summary) (*see* **2005a:90006**)
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— (*with* Sviridenko, M. I.) Pipage rounding: a new method of constructing algorithms with proven performance guarantee. (English summary) **2005c:90048**
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Anthony, Martin Some connections between learning and optimization. (English summary) **2005e:68205**

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Arkin, Esther M. (*with* Hassin, Refael; Rubinstein, Shlomi; Sviridenko, M. I.) Approximations for maximum transportation problem with permutable supply vector and other capacitated star packing problems. (*see* **2005a:68002**)

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Bang-Jensen, Jørgen (*with* Gutin, Gregory; Yeo, Anders) Steiner type problems for digraphs that are locally semicomplete or extended semicomplete. (English summary) **2005h:90143**

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Baptiste, Philippe (*with* Kenyon, Claire; Schrijver, Alexander) ★ Recherche opérationnelle. [Operational research]

— (*with* Le Pape, Claude) Scheduling a single machine to minimize a regular objective function under setup constraints. (English summary) **2005j:90020**

Barbolīna, T. M. *see* **Emets, O. A., 2005e:90059**

Bartal, Yair (*with* Charikar, Moses S.; Raz, Danny) Approximating min-sum k-clustering in metric spaces. (English summary) (*see* **2005j:68008**)

— (*with* Byers, John W.; Raz, Danny) Fast, distributed approximation algorithms for positive linear programming with applications to flow control. (English summary) **2005j:68123**

Bar-Yehuda, Reuven (*with* Even, Guy; Shahar, Shimon) On approximating a geometric prize-collecting traveling salesman problem with time windows. (English summary) (*see* **2005c:68003**)

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Beier, René (*with* Vöcking, Berthold) Random knapsack in expected polynomial time. (English summary) **2005f:68175**

Bektas, Tolga *see* **Kara, Imdat et al., 2005d:90131**

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de Berg, Mark (*with* Gudmundsson, Joachim; Katz, Matthew J.; Levcopoulos, Christos; Overmars, Mark H.; van der Stappen, A. Frank) TSP with neighborhoods of varying size. (English summary) (*see* **2005c:68002**)

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Berretty, Robert-Paul *see* **Agarwal, Pankaj K. et al., 2005m:68208**

Bertsimas, Dimitris (*with* Natarajan, Karthik; Teo, Chung-Piaw) Probabilistic combinatorial optimization: moments, semidefinite programming and asymptotic bounds. (English summary) **2005k:90099**

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Bhargava, Shifali (*with* Sharma, Kailash Chandra) A relaxed projection method for general integer quadratic knapsack problem. (English summary)

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— *see also* **Integer programming and combinatorial optimization, 2005m:90001**

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— (*with* Formanowicz, Piotr; Kasprzak, Marta) Selected combinatorial problems of computational biology. (English summary) **2005g:92019**

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Boschetti, Marco A. (*with* Mingozzi, Aristide) The two-dimensional finite bin packing problem. I. New lower bounds for the oriented case. (English summary) **2005k:90077**

— (*with* Mingozzi, Aristide) The two-dimensional finite bin packing problem. II. New lower and upper bounds. (English summary) **2005k:90078**

— New lower bounds for the three-dimensional finite bin packing problem. (English summary) **2005f:05034**

Bourjolly, Jean-Marie (*with* Rebetez, Vianney) An analysis of lower bound procedures for the bin packing problem. (English and French summaries) **2005h:90057**

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Bramel, Julien *see* **Simchi-Levi, David et al., 2005d:90003**

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— (Generalized) convexity and discrete optimization. (English summary) **2005g:52029**

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— (*with* Pferschy, Ulrich) Worst-case analysis of the subset sum algorithm for bin packing. (English summary) **2005c:90040**

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Carr, Robert D. Separation algorithms for classes of STSP inequalities arising from a new STSP relaxation. (English summary) **2005a:90197**

— (*with* Vempala, Santosh S.) On the Held-Karp relaxation for the asymmetric and symmetric traveling salesman problems. (English summary) **2005m:90168**

Čepek, Ondřej (*with* Sung, Shao Chin) Just-in-time scheduling with periodic time slots. (English summary)

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Charikar, Moses S. (*with* Panigrahy, Rina) Clustering to minimize the sum of cluster diameters. (*see* **2005j:68008**)

— *see also* **Bartal, Yair et al., (2005j:68008)**

Chauhan, Satyaveer S. (*with* Eremeev, Anton V.; Romanova, Anna A.; Servakh, Vladimir V.; Woeginger, Gerhard J.) Approximation of the supply scheduling problem. (English summary) **2005h:90034**

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Chen, Guo Liang[2] *see* **Gu, Xiaodong et al., 2005j:90040**

Chen, William Y. C. (*with* Li, Xue-liang; Wang, Chao[2]; Zhang, Xiaoyan) The minimum all-ones problem for trees. (English summary) **2005b:68125**

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Chen, Zhi Bin (*with* Li, Jian Ping[3]) Maximizing the throughput of ring routing problem in SONET. (Chinese. English and Chinese summaries)

— (*with* Li, Jian Ping[3]) Optimal structure of information dissemination. (Chinese. English and Chinese summaries)

Cheng, Eddie (*with* Kleinberg, Raymond P.; Kruk, Serge G.; Lindsey, William A.; Steffy, Daniel E.) A strictly combinatorial approach to a university exam scheduling problem. (English summary) **2005i:90087**

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— *see also* **Ng, C. T. Daniel et al., 2005h:90048**

Chepuri, Krishna (*with* Homem-de-Mello, Tito) Solving the vehicle routing problem with stochastic demands using the cross-entropy method. (English summary) **2005k:90065**

Chiang, Yi-Jen New approximation results for the maximum scatter TSP. (English summary) **2005j:68125**

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Chudak, Fabián A. (*with* Roughgarden, Tim; Williamson, David P.) Approximate k-MSTs and k-Steiner trees via the primal-dual method and Lagrangean relaxation. (English summary) **2005a:90166**

— (*with* Williamson, David P.) Improved approximation algorithms for capacitated facility location problems. (English summary) **2005k:90062**

Cieslik, Dietmar ★ Shortest connectivity. **2005f:92018**

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— *see also* **Andersen, Kent et al., (2005a:90006)**
Correa, Elon Santos (*with* Steiner, Maria Teresinha A.; Freitas, Alex A.; Carnieri, Celso) A genetic algorithm for solving a capacitated p-median problem. (English summary)
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— Algorithmes d'approximation: un petit tour en compagnie d'un voyageur de commerce. (French summary) [Approximation algorithms: a little trip in the company of a travelling salesman] **2005f:68165**
Demidenko, V. M. Construction of a relaxation of the polytope of the symmetric traveling salesman problem on the basis of a well-solvable Kalmanson case. (Russian. Russian summary) **2005k:90186**
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Dewan, Rajiv *see* **Rummel, Jeffrey L. et al., 2005e:90031**
Deza, Michel (*with* Rosenberg, Ivo G.) Small cones of m-hemimetrics. (English summary) **2005k:05020**
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Duin, C. W. A branch-checking algorithm for all-pairs shortest paths. (English summary) **2005h:90147**
— *see also* **Volgenant, A., 2005g:05085** *and* **Voß, Stefan et al.**
Dumitrescu, Adrian (*with* Mitchell, Joseph S. B.) Approximation algorithms for TSP with neighborhoods in the plane. (English summary) **2005c:68293**
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— (*with* Ryan, David M.) The method of elastic constraints for multiobjective combinatorial optimization and its application in airline crew scheduling. (English summary) (*see* **2005b:90008**)
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Emelichev, Vladimir A. (*with* Kuz'min, K. G.; Leonovich, A. M.) On quasistability of a vector combinatorial problem with Σ-MINMAX and Σ-MINMIN partial criteria. (English summary) **2005d:90083**
— (*with* Kuz'min, K. G.) On the quasi-stability radius of a vector trajectory problem of lexicographic optimization in the metric l_1. (Russian. English and Russian summaries) **2005m:90104**
— *see also* **Bukhtoyarov, S. E. et al., 2005e:90105**
Emets, O. A. (*with* Barbolīna, T. M.) Solution of linear optimization problems on arrangements by the cut-off method. (Russian. English and Ukrainian summaries) **2005e:90059**
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Hahn, Peter M. Corrigendum to: "Tree elaboration strategies in branch-and-bound algorithms for solving the quadratic assignment problem" [Yugosl. J. Oper. Res. **11** (2001), no. 1, 41–60; MR1853381] by Hahn, W. L. Hightower, T. A. Johnson, M. Guignard-Spielberg and C. Roucairol.
Hales, Thomas C. Some algorithms arising in the proof of the Kepler conjecture. (English summary) **2005b:52047**
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— *see also* **Arkin, Esther M. et al., (2005a:68002)**
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He, Jun (*with* Yao, Xin) Time complexity analysis of an evolutionary algorithm for finding nearly maximum cardinality matching. (English summary)
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Helmberg, Christoph A cutting plane algorithm for large scale semidefinite relaxations. (English summary) (*see* **2005b:90009**)
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(Hightower, William L.) *see* **Hahn, Peter M.**
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Imahori, S. (*with* Yagiura, Mutsunori; Ibaraki, Toshihide) Improved local search algorithms for the rectangle packing problem with general spatial costs. (English summary)
Imreh, Balázs (*with* Imreh, Sz.) A heuristic method for the asymmetric Hamiltonian p-median problem. (English summary)
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Iwama, Kazuo (*with* Taketomi, Shiro) Removable online knapsack problems. (English summary) (*see* **2005a:68008**)
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Jansen, Klaus (*with* Porkolab, Lorant) On preemptive resource constrained scheduling: polynomial-time approximation schemes. (English summary) (*see* **2005a:90006**)
— *see also* **Approximation, randomization, and combinatorial optimization, 2005b:68007** *and* **Approximation algorithms for combinatorial optimization, 2005d:68005**
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Kenyon, Claire *see* **Baptiste, Philippe et al.**
Kim, Younghoon (*with* Lee, Sungchul; Lin, Zheng Yan) The law of the iterated logarithm for the total length of the nearest neighbor graph. (English summary) **2005d:60044**
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Kleinberg, Raymond P. *see* **Cheng, Eddie et al., 2005i:90087**
de Klerk, Etienne (*with* Pasechnik, Dmitrii V.; Warners, J. P.) On approximate graph colouring and MAX-k-CUT algorithms based on the ϑ-function. (English summary) **2005h:68184**
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Levin, Asaf Strongly polynomial-time approximation for a class of bicriteria problems. (English summary) **2005b:90115**
Leyffer, Sven *see* **Fletcher, Roger**, 2005c:90077
Li, Deng Feng[1] (*with* Cheng, Chun-Tian) Stability on multiobjective dynamic programming problems with fuzzy parameters in the objective functions and in the constraints. (English summary) **2005c:90081**
Li, Hui *see* **Li, Xue Quan**
Li, Mao Qin (*with* Craven, Bruce D.) Some properties of optimal multifunctions in parametric multiobjective optimization with set-valued maps. (English summary) **2005i:90060**
Li, Rong Hua (*with* Wang, Feng; Nie, Zan Kan) A note on the least effective solution for multiobjective parameter programming. (Chinese. English and Chinese summaries)
Li, Xue Quan (*with* Li, Hui) Fuzzy multiple objective programming with weighted coefficients. (Chinese. English and Chinese summaries)
Li, Zhong Fan *see* **Wang, Cai Ling et al.**
Liu, Qing Huai *see* **Wang, Cai Ling et al.**
Liu, San Ming (*with* Feng, En Min) Second-order optimality conditions for multiobjective programming with set functions. (Chinese. English and Chinese summaries) **2005e:90111**
— (*with* Feng, En Min) Another approach to multiobjective programming problems with F-convex functions. (English summary) **2005g:90126**
Liu, San Yang *see* **Sheng, Bao Huai et al.**, **2005e:90114** *and* **Xu, Yihong**
Liu, Yu Ning *see* **Jiang, Zhi Xia et al.**
Lizárraga Lizárraga, Giovanni *see* **Hernández Aguirre, Arturo et al.**, **2005h:90117**
Lu, Da Gang (*with* Wang, Li; Zhang, Peng; Wang, Guang Yuan) On similar approach degree algorithm for fuzzy multiple attribute decision-making. (Chinese. English and Chinese summaries)
Lu, Jian Xin[2] (*with* Qin, Zhilin) Sufficient conditions for circular-cone efficient solutions of multiobjective programming. (English and Chinese summaries)
Lucchetti, R. E. (*with* Miglierina, E.) Stability for convex vector optimization problems. (English summary) **2005h:90120**
Maeda, Takashi[2] Second-order conditions for efficiency in nonsmooth multiobjective optimization problems. (English summary) **2005e:90112**
Marchi, A. *see* **Cambini, Riccardo**, **2005k:90130**
Matarazzo, Benedetto *see* **Angilella, Silvia et al.**, **2005b:90112**
Mateo, P. M. *see* **Alberto, I.**, **2005d:90101**
Mattson, Christopher A. (*with* Mullur, Anoop A.; Messac, Achille) Smart Pareto filter: obtaining a minimal representation of multiobjective design space. **2005e:90113**
— (*with* Messac, Achille) Pareto frontier based concept selection under uncertainty, with visualization. (English summary)
Mehra, Aparna *see* **Govil, Misha G.**, **2005d:90105** *and* **2005g:90122**
Melamed, I. I. (*with* Sigal, I. Kh.) ★ Распределение эффективных решений в некоторых бикритериальных задачах дискретного программирования. (Russian. Russian summary) [Distribution of efficient solutions in some bicriterial problems of discrete programming]
Memariani, Azizollah *see* **Jahanshahloo, Gholamreza et al.**, **2005g:90124**
Messac, Achille *see* **Mattson, Christopher A. et al.**, **2005e:90113**
Mészáros, Csaba (*with* Rapcsák, Tamás) A remark on: "Strict preference and sensitivity analysis in additive utility functions with interval data" [CEJOR Cent. Eur. J. Oper. Res. **12** (2004), no. 3, 233–249; MR2085395 (2005d:90111)] by R. Vetschera. (English summary)
Metrane, A. *see* **Gadhi, N.**, **2005c:90078** *and* **Belkeziz, K.**, **2005f:90102**
Mezura Montes, Efrén *see* **Hernández Aguirre, Arturo et al.**, **2005h:90117**
Michnik, Jerzy The comprehensive financial risk management in a bank—stochastic goal programming optimization. (English summary) (*see* **2005b:90008**)
Miettinen, Kaisa *see* **Lahdelma, Risto et al.**
Miglierina, E. Slow solutions of a differential inclusion and vector optimization. (English summary) **2005a:90145**
— *see also* **Lucchetti, R. E.**, **2005h:90120**
Mishra, Shashi K. (*with* Rueda, Norma G.; Giorgi, Giorgio) Multiobjective programming under generalized type I univexity. (English summary) **2005f:90107**
— (*with* Giorgi, Giorgio; Wang, Shou Yang) Duality in vector optimization in Banach spaces with generalized convexity. (English summary) **2005h:90121**
— (*with* Wang, Shou Yang; Lai, Kin Keung) Optimality and duality in nondifferentiable and multiobjective programming under generalized d-invexity. (English summary) **2005h:90122**
— (*with* Wang, Shou Yang; Lai, Kin Keung; Shi, Jianming) New generalized invexity for duality in multiobjective programming problems involving N-set functions. (English summary) **2005h:90123**
— (*with* Wang, Shou Yang; Lai, Kin Keung) Nondifferentiable multiobjective programming under generalized d-univexity. (English summary) **2005f:90109**
— (*with* Wang, Shou Yang; Lai, Kin Keung) Optimality and duality for multiple-objective optimization under generalized type I univexity. (English summary) **2005j:90075**
Mititelu, Ştefan Kuhn-Tucker conditions and Preda duality for multiobjective mathematical programs with n-set functions. (English and Romanian summaries) **2005c:90082**
— (*with* Preda, Vasile) Generalized Mond-Weir duality for multiobjective mathematical programs with n-set functions. (English summary) **2005d:90106**
Mullur, Anoop A. *see* **Mattson, Christopher A. et al.**, **2005e:90113**
Nakagawa, Yuji *see* **Isada, Yuriko et al.**
Nakayama, Hirotaka J. MOP/GP approaches to data mining. (English summary) (*see* **2005b:90008**)
— *see also* **Asada, Takeshi**, (**2005b:90008**)
Narula, Subhash *see* **Vasil′ev, Vasil S. et al.**
Nasrabadi, Ebrahim *see* **Nasrabadi, Mohammad Mehdi**[2] **et al.**
Nasrabadi, Mohammad Mehdi[2] (*with* Nasrabadi, Ebrahim; Nasrabady, Ali Reza) Fuzzy linear regression analysis: a multi-objective programming approach. (English summary)
Nasrabady, Ali Reza *see* **Nasrabadi, Mohammad Mehdi**[2] **et al.**
Németh, S. Z. *see* **Ekárt, Anikó**
Ng, Kung Fu (*with* Zheng, Xi Yin) On the density of positive proper efficient points in a normed space. (English summary) **2005b:90116**
Nguyễn Đông Yên *see* **Nguyen Quang Huy et al.**, **2005h:90124**; **2005i:90061** *and* **2005k:90138**
Nguyen Manh Hung *see* **Đỗ Văn Lu'u**, **2005d:90104**
Nguyen Quang Huy (*with* Ta Duy Phu'o'ng; Nguyễn Đông Yên) On the contractibility of the efficient and weakly efficient sets in $\mathbb{R}^2$. (English summary) **2005h:90124**
— (*with* Nguyễn Đông Yên) Remarks on a conjecture of J. Benoist. (English summary) **2005i:90061**
— (*with* Nguyễn Đông Yên) Contractibility of the solution sets in strictly quasiconcave vector maximization on noncompact domains. (English summary) **2005k:90138**
Nguyễn Xuân Tấn *see* **Crespi, Giovanni P.**, **2005k:90131**
Nie, Zan Kan *see* **Li, Rong Hua et al.**
Nishizaki, Ichiro (*with* Sakawa, Masatoshi; Kato, Kosuke; Katagiri, Hideki) Stackelberg solutions to two-level linear programming problems with random variable coefficients. (English summary) (*see* **2005b:90008**)
Nobakhtian, S. Proximal characterization of Pareto optima. (English summary) (*see* **2005g:00015**)
Nogin, V. D. A simplified variant of a method for the analysis of hierarchies, based on a nonlinear convolution of criteria. (Russian. Russian summary) **2005i:90062**
Noh, Kyung-A. *see* **Kim, Do Sang et al.**, **2005k:90136**
Novo Sanjurjo, Vicente (*with* Jiménez, Bienvenido) Lagrange multipliers in multiobjective optimization under mixed assumptions of Frechet and directional differentiability. (English and Spanish summaries) **2005g:90127**
— *see also* **Jiménez, Bienvenido**, **2005a:90140**; **Adán, M.**, **2005e:90102**; **Giorgi, Giorgio et al.**, **2005f:90106** *and* **Gutiérrez, César et al.**, **2005i:90058**
Ogryczak, Włodzimierz *see* **Kostreva, Michael M. et al.**, **2005b:90113**
Ohsaki, Shuuji *see* **Katagiri, Hideki et al.**, (**2005b:90008**)
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Okano, Hiroyuki *see* **Amano, Masami**, (**2005b:90008**)
Osuna-Gómez, R. *see* **Arana-Jiménez, M. et al.**, **2005a:90138** *and* **Dos Santos, L. Batista et al.**, **2005g:90121**
Peng, Jianwen (*with* Yang, Xin Min) Duality for a class of nonsmooth multiobjective programming problems. (English summary) **2005k:90139**
Phruksaphanrat, Busaba (*with* Ohsato, Ario) Linear coordination method for multiobjective problems. (English summary) **2005d:90107**
Piercy, Craig A. *see* **Steuer, Ralph E.**, **2005g:90133**

Podinovskiĭ, Vladislav V. Analysis of decisions under multiple estimates for the importance coefficients of criteria and for the probabilities of the values of uncertain factors in the objective function. (Russian. Russian summary)
Popa, Mariana *see* **Popa, Marin, 2005f:90108**
Popa, Marin (*with* Popa, Mariana) Sufficiency optimality conditions for multiobjective programming under generalized univexity type I with semidifferentiable functions. (English summary) **2005f:90108**
Postolică, Vasile Vectorial optimization programs with multiple solutions. (English summary) **2005g:90128**
— Efficiency and Choquet boundaries in separated locally convex spaces. (English summary) **2005m:90110**
Preda, Vasile *see* **Mititelu, Ştefan, 2005d:90106**
Propoĭ, A. I. On the construction of a metric on the domination cone. I. (Russian. Russian summary) **2005g:90129**
— On the construction of a metric on the domination cone. II. (Russian. Russian summary) **2005h:90125**
Punkka, Antti *see* **Salo, Ahti, 2005g:90130**
Qi, Yue *see* **Steuer, Ralph E., (2005b:90008)**
Qin, Zhilin *see* **Lu, Jian Xin[2]**
Qiu, Jing Hui (*with* Zhang, Shen Yuan) Strictly efficient points and Henig proper efficient points. (Chinese. English and Chinese summaries) **2005m:90111**
Rabinovich, Ya. I. On the search for weakly effective solutions. (Russian. Russian summary) **2005c:90083**
Rapcsák, Tamás *see* **Mészáros, Csaba**
Raupp, Fernanda M. P. *see* **Sosa, Wilfredo, 2005e:90115**
Reddy, L. Venkateswara (*with* Lakshmi, Vara) Composite multi objective fractional programming with generalized invexity. (English summary)
Rionda, Salvador Botello *see* **Hernández Aguirre, Arturo et al., 2005h:90117**
Rocca, Matteo *see* **Crespi, Giovanni P. et al., 2005h:90114**
Rojas-Medar, Marko A. *see* **Dos Santos, L. Batista et al., 2005g:90121**
Rubinov, Aleksandr M. (*with* Gasimov, Rafail N.) Scalarization and nonlinear scalar duality for vector optimization with preferences that are not necessarily a pre-order relation. (English summary) **2005h:90126**
Rueda, Norma G. *see* **Mishra, Shashi K. et al., 2005f:90107**
Ruetsch, G. R. An interval algorithm for multi-objective optimization. (English summary)
Rufián-Lizana, A. *see* **Arana-Jiménez, M. et al., 2005a:90138** *and* **Dos Santos, L. Batista et al., 2005g:90121**
Ryan, David M. *see* **Ehrgott, Matthias, (2005b:90008)**
Saad, Omar M. (*with* Hazim-Sharif, Walied) Stability set for integer linear goal programming. (English summary) **2005b:90117**
Sakawa, Masatoshi *see* **Katagiri, Hideki et al., (2005b:90008)** *and* **Nishizaki, Ichiro et al., (2005b:90008)**
Salminen, Pekka *see* **Lahdelma, Risto et al.**
Salo, Ahti (*with* Punkka, Antti) Rank inclusion in criteria hierarchies. (English summary) **2005g:90130**
San Pedro, Jocelyn C. A combined weight-update and aspiration-level interactive method for multiple objective linear programming. (English summary) **2005h:90127**
Sarker, Ruhul (*with* Abbass, Hussein A.) Differential evolution for solving multiobjective optimization problems. (English summary)
Schaible, Siegfried *see* **Kim, Do Sang, 2005a:90142**
Schütze, O. *see* **Dellnitz, Michael et al., 2005k:90132**
Sedeño-Noda, Antonio (*with* González-Martín, Carlos; Gutiérrez, José Miguel) The biobjective undirected two-commodity minimum cost flow problem. (English summary) **2005g:90131**
Semenova, N. V. *see* **Lebēdēva, T. T. et al., 2005a:90144**
Sergīenko, T. Ī. Stability under constraints of a vector optimization problem on integer points of a convex polyhedron. (Russian. English summary) **2005b:90118**
— *see also* **Lebēdēva, T. T. et al., 2005a:90144** *and* **2005c:90080**
Sharma, Pramod C. *see* **Joshi, Pradeep K. et al., 2005k:90135**
Sharma, Sourabh *see* **Joshi, Pradeep K. et al., 2005k:90135**
Sheng, Bao Huai (*with* Zhou, Song Ping; Liu, San Yang) Duality in vector optimization of set-valued maps with super efficient solutions. (Chinese. English and Chinese summaries) **2005e:90114**
Shi, Jianming *see* **Mishra, Shashi K. et al., 2005h:90123**
Shi, Yong[1] *see* **Tang, Xiaowo et al., 2005d:90108**
Shih, Hsu-Shih (*with* Wen, Ue-Pyng; Lee, E. Stanley; Lan, Kuen-Ming; Hsiao, Han-Chyi) A neural network approach to multiobjective and multilevel programming problems. (English summary)
Shoja, N. *see* **Jahanshahloo, Gholamreza et al., 2005g:90124** *and* **2005h:90118**
Sholomov, L. A. Logical methods for investigating relations in criterial spaces with order scales of arbitrary type. (Russian. Russian summary) **2005g:90132**
Sigal, I. Kh. *see* **Melamed, I. I.**
Singh, Vibha *see* **Kishore, Newal, 2005e:90110**
Slavov, Zdravko Dimitrov (*with* Evans, Christina S.) On the structure of the efficient set. (English and Bulgarian summaries) (*see* **2005f:00011**)
Słowiński, Roman *see* **Greco, Salvatore et al., (2005b:90008)**
Sosa, Wilfredo (*with* Raupp, Fernanda M. P.) A new approach to a multicriteria optimization problem. (English summary) **2005e:90115**
Stancu-Minasian, Ioan M. Optimality conditions and duality in multiobjective nonlinear programming involving semilocally b-preinvex and related functions. (English summary) **2005i:90063**
Stepanishina, Yu. V. *see* **Bukhtoyarov, S. E. et al., 2005e:90105**
Steuer, Ralph E. (*with* Qi, Yue) Computational investigations evidencing multiple objectives in portfolio optimization. (English summary) (*see* **2005b:90008**)
— (*with* Piercy, Craig A.) A regression study of the number of efficient extreme points in multiple objective linear programming. (English summary) **2005g:90133**
Stoilov, T. *see* **Stoilova, K. et al.**
Stoilova, K. (*with* Stoilov, T.; Yoshinov, R.) Predictive coordination in two level hierarchical systems. (English summary)
Stori, James A. *see* **Venkat, Vandana et al., 2005d:90110**
Suh, Min-Ho *see* **Kang, Jin-Su et al., 2005a:90141**
Sun, Minghe Some issues in measuring and reporting solution quality of interactive multiple objective programming procedures. (English summary) **2005f:90110**
Suneja, S. K. *see* **Lalitha, C. S. et al., 2005h:90119**
Svaiter, Benar F. *see* **Graña Drummond, L. M., 2005i:90057**
Sytsko, Yury *see* **Kucherenko, Sergei, 2005m:90109**
Ta Duy Phu'o'ng *see* **Nguyen Quang Huy et al., 2005h:90124**
Tammer, Chr. *see* **Göpfert, A. et al., 2005e:90106**
Tanaka, Hideo *see* **Entani, Tomoe, (2005b:90008)**
Tanaka, Tamaki *see* **Kimura, Kenji et al., (2005b:90008)**
Tang, Xiaowo (*with* Zhou, Zongfang; Zhang, Chungen; Shi, Yong[1]) Multi-objective constrained nonlinear optimization: an ODE approach. (English summary) **2005d:90108**
Tanino, Tetsuzo Some fundamental results for the infimum of a set in the multi-dimensional extended real space. (English summary) **2005d:90109**
Tarasova, V. P. On classes of multi-extremal functions that allow the search for the global extremum by the Fibonacci method. (Russian. Russian summary) **2005f:90111**
Teo, Kok Lay *see* **Yang, Xin Min et al., 2005b:90120; 2005d:90113; 2005h:90128; 2005j:90076; 2005k:90141** *and* **Huang, Xue Xiang et al., 2005i:90059**
Tkachenko, Alexandra I. The multiobjective transportation fractional programming model. (English summary)
Tohidi, G. *see* **Jahanshahloo, Gholamreza et al., 2005h:90118**
Trzaskalik, Tadeusz Interactive procedures in hierarchical dynamic goal programming. (English summary) **2005b:90119**
Tsao, Chung-Tsen An interval arithmetic based fuzzy MCDM approach for technology transfer strategy selection in biotechnology. (English summary)
Tzeng, Gwo-Hshiung Multiple objective decision making in past, present, and future. (English summary) (*see* **2005b:90008**)
— *see also* **Chiou, Hua-Kai, (2005b:90008)**
Upadhyay, Samar *see* **Joshi, Pradeep K. et al., 2005k:90135**
Vasil'ev, Vasil S. (*with* Narula, Subhash; Vassileva, Mariana; Genova, Krassimira) A partition-based interactive algorithm for solving multicriteria linear integer programming problems. (English and Bulgarian summaries)
Vassileva, Mariana A learning-oriented method of linear mixed integer multicriteria optimization. (English and Bulgarian summaries)
— *see also* **Vasil'ev, Vasil S. et al.**
Venkat, Vandana (*with* Jacobson, Sheldon H.; Stori, James A.) A post-optimality analysis algorithm for multi-objective optimization. (English summary) **2005d:90110**
Vetschera, Rudolf Strict preference and sensitivity analysis in additive utility functions with interval data. (English summary) **2005d:90111**
— *see also* **Mészáros, Csaba**
Voronin, A. N. Embedded scalar convolutions of a vector criterion. (Russian. English, Russian and Ukrainian summaries)
— Vector optimization of hierarchical structures. (Russian. English, Russian and Ukrainian summaries)
Wang, Cai Ling (*with* Li, Zhong Fan; Liu, Qing Huai) A new method for linear multiobjective programming. (Chinese. English and Chinese summaries)
Wang, Feng *see* **Li, Rong Hua et al.**
Wang, Guang Yuan *see* **Lu, Da Gang et al.**
Wang, Jun *see* **Yan, Hong[2] et al., 2005m:90113**
Wang, Li *see* **Lu, Da Gang et al.**
Wang, Shou Yang *see* **Mishra, Shashi K. et al., 2005f:90109; 2005h:90121; 2005h:90122; 2005h:90123** *and* **2005j:90075**
Wang, Yiju *see* **Zhou, Houchun**
Wei, Quan Ling *see* **Yan, Hong[2] et al., 2005m:90113**
Wen, Ue-Pyng *see* **Shih, Hsu-Shih et al.**
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Wierzbicki, Adam *see* **Kostreva, Michael M. et al., 2005b:90113**
Winkler, Kristin Geoffrion proper efficiency in an infinite dimensional space. (English summary) **2005e:90116**
Wu, Y. N. (*with* Cheng, T. C. Edwin) Convergence results for weak efficiency in vector optimization problems with equilibrium constraints. (English summary) **2005m:90112**
Wu, Yunan Continuity for vector optimization problems with equilibrium constraints. (English summary) **2005d:90112**
Xiao, Jian[5] (*with* Chen, Yi-hua) Algorithm for solving the bi-level decision making problem with continuous vairables in the upper level based on genetic algorithm. (English summary)
Xu, Yihong (*with* Liu, San Yang) Kuhn-Tucker necessary conditions for (h, φ)-multiobjective optimization problems. (English summary)
— (*with* Liu, San Yang) Strict efficiency in set-valued optimization with near cone-subconvexlikeness. (Chinese. English and Chinese summaries)
— (*with* Zhu, Chuan Xi) On super efficiency in set-valued optimisation in locally convex spaces. (English summary) **2005k:90140**
Yan, Hong[2] (*with* Wei, Quan Ling; Wang, Jun) Constructing efficient solutions structure of multiobjective linear programming. (English summary) **2005m:90113**
Yang, Wan Quan[2] (*with* Huang, You Chu) Necessary and sufficient conditions for αk-major efficient solutions in infinite-dimensional multiobjective programming. (Chinese. English and Chinese summaries)
Yang, Xiao Qi *see* **Yang, Xin Min et al., 2005b:90120; 2005d:90113; 2005h:90128; 2005j:90076; 2005k:90141; Huang, Xue Xiang et al., 2005i:90059** *and* **Deng, Sien, 2005m:90103**
Yang, Xin Min (*with* Teo, Kok Lay; Yang, Xiao Qi) Higher-order generalized convexity and duality in nondifferentiable multiobjective mathematical programming. (English summary) **2005d:90113**
— (*with* Yang, Xiao Qi; Teo, Kok Lay) Some remarks on the Minty vector variational inequality. (English summary) **2005b:90120**
— (*with* Yang, Xiao Qi; Teo, Kok Lay) Criteria for generalized invex monotonicities. (English summary)
— (*with* Yang, Xiao Qi; Teo, Kok Lay; Hou, Shui Hung) Second order symmetric duality in non-differentiable multiobjective programming with F-convexity. (English summary) **2005h:90128**

— (*with* Yang, Xiao Qi; Teo, Kok Lay; Hou, Shui Hung) Multiobjective second-order symmetric duality with F-convexity. (English summary) **2005j:90076**
— (*with* Yang, Xiao Qi; Teo, Kok Lay) Mixed type converse duality in multiobjective programming problems. (English summary) **2005k:90141**
— *see also* **Peng, Jianwen**, **2005k:90139**
Yang, Yi Hua *see* **Jiang, Zhi Xia et al.**
Yoshinov, R. *see* **Stoilova, K. et al.**
Youness, Ebrahim A. *see* **Ammar, E. E.**
Zabotin, I. Ya. Projection algorithms with parametrized descent directions in pseudoconvex programming. (Russian. Russian summary) **2005a:90146**
Zălinescu, Constantin *see* **Göpfert, A. et al.**, **2005e:90106**
Zalmai, G. J. Proper efficiency conditions and duality models for a class of nonsmooth continuous-time multiobjective fractional programming problems. (English summary) **2005a:90147**
Zaras, Kazimierz Rough approximation of a preference relation by a multi-attribute dominance for deterministic, stochastic and fuzzy decision problems. (English summary) **2005a:90148**
Zhang, Chungen *see* **Tang, Xiaowo et al.**, **2005d:90108**
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Zhang, Ruoxin Multistage bilevel programming problems. (English summary) **2005b:90121**
Zhang, Shen Yuan *see* **Qiu, Jing Hui**, **2005m:90111**
Zhao, Dun *see* **Zhu, Jiang[2] et al.**, **2005i:90064**
Zhao, Qianchuan (*with* Ho, Yu-Chi; Jia, Q. S.) Vector ordinal optimization. (English summary) **2005k:90142**
Zheng, Xi Yin *see* **Ng, Kung Fu**, **2005b:90116**
Zhou, Houchun (*with* Wang, Yiju) Optimality and mixed duality for nonsmooth multiobjective fractional programming. (English summary)
Zhou, Song Ping *see* **Sheng, Bao Huai et al.**, **2005e:90114**
Zhou, Xuan-wei (*with* Hu, Yu-da) Connectedness of cone-efficient solution set for cone-quasiconvex multiobjective programming in locally convex spaces. (English summary) **2005b:90122**
Zhou, Zongfang *see* **Tang, Xiaowo et al.**, **2005d:90108**
Zhu, Chuan Xi *see* **Xu, Yihong**, **2005k:90140**
Zhu, Jiang[2] (*with* Isac, George; Zhao, Dun) Pareto optimization in topological vector spaces. **2005i:90064**
Zhukovskaya, L. V. An approach to risk formalization in decision making in automatic control systems. (Russian. Russian summary) **2005k:90143**
— A new approach to risk estimation in multicriterial automatic control systems. I. (Russian. Russian summary)
Zykina, A. V. An algorithm for the lexicographic optimization problem. (Russian. Russian summary) **2005e:90117**
— Generalized solution for an interactive procedure. (Russian. English and Ukrainian summaries) **2005k:90144**

Items with secondary classifications in 90C29

Abo-Sinna, Mahmoud A. Multiple objective (fuzzy) dynamic programming problems: a survey and some applications. (English summary) **2005i:90104**
— (*with* Amer, Azza H.) Extensions of TOPSIS for multi-objective large-scale nonlinear programming problems. (English summary)
— *see also* **Osman, M. S. et al.**, **2005b:90059**
Aboussoror, Abdelmalek (*with* Mansouri, Abdelatif) Weak linear bilevel programming problems: existence of solutions via a penalty method. (English summary) **2005k:90145**
Ahmad, Izhar Multiobjective mixed symmetric duality with invexity. (English summary) **2005m:90147**
Alam, Teg (*with* Bari, Abdul) A heuristic approach for solving multi objective linear integer programming problem. (English summary)
Amer, Azza H. *see* **Osman, M. S. et al.**, **2005b:90059** *and* **Abo-Sinna, Mahmoud A.**
Ammar, E. E. *see* **Hassian, M. L. et al.**, **2005f:90176**
Anglani, Alfredo (*with* Grieco, Antonio; Guerriero, Emanuela; Musmanno, Roberto) Robust scheduling of parallel machines with sequence-dependent set-up costs. (English summary) **2005e:90032**
Aouni, Belaïd (*with* Ben Abdelaziz, Foued; Martel, Jean-Marc) Decision-maker's preferences modeling in the stochastic goal programming. (English summary)
Arakawa, M. *see* **Yun, Ye Boon et al.**, **2005i:90029**
Arenas Parra, M. Mar (*with* Bilbao Terol, Amelia; Pérez-Gladish, Blanca; Rodríguez-Uría, M. Victoria) Solving a multiobjective possibilistic problem through compromise programming. (English summary) **2005g:90177**
Bampis, Evripidis (*with* Kononov, Aleksandr Veniaminovich) Bicriteria approximation algorithms for scheduling problems with communications delays. (English summary) **2005m:90028**
Barceló, Jaime *see* **Codina, Esteve**, **2005a:90015**
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Benson, H. P. On the global optimization of sums of linear fractional functions over a convex set. (English summary) **2005d:90090**
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Bit, A. K. Fuzzy programming with hyperbolic membership functions for multiobjective capacitated transportation problem. (English summary)
— Fuzzy programming with hyperbolic membership functions for multiobjective capacitated solid transportation problem. (English summary)
Bordley, Robert F. (*with* Kirkwood, Craig W.) Multiattribute preference analysis with performance targets. (English summary)
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Đinh Thế Lục Generalized convexity in vector optimization. (English summary) (*see* **2005i:90003**)
Doerner, Karl (*with* Gutjahr, Walter J.; Hartl, Richard F.; Strauss, Christine; Stummer, Christian) Pareto ant colony optimization: a metaheuristic approach to multiobjective portfolio selection. (English summary) **2005e:91075**
(Donets, V. M.) *see* **Kolbin, Vyacheslav Viktorovich**, **2005e:91001**
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— (*with* Kuz′min, K. G.; Leonovich, A. M.) Stability in vector combinatorial optimization problems. (Russian. Russian summary) **2005d:90095**
— (*with* Kuz′min, K. G.; Leonovich, A. M.) On quasistability of a vector combinatorial problem with Σ-MINMAX and Σ-MINMIN partial criteria. (English summary) **2005d:90083**
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Han, Lili (*with* Li, Rong Sheng[2]) The solution concepts and the optimality condition for a kind of bilevel programming with multifollowers. (English summary)
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— (*with* Hosseinzadeh Lotfi, F.; Shoja, N.; Tohidi, G.; Razavyan, S.) Input estimation and identification of extra inputs in inverse DEA models. (English summary) **2005i:90034**
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— (*with* Sakawa, Masatoshi; Ishii, Hiroaki[1]) A study on fuzzy random portfolio selection problems based on possibility and necessity measures. (English summary) **2005i:90106**
— *see also* **Sakawa, Masatoshi et al., 2005b:90175** *and* **Perkgoz, C. et al.**
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Kou, Gang (*with* Peng, Yi[2]; Shi, Yong[1]; Xu, Weixuan) A set of data mining models to classify credit cardholder behavior. (English summary) (*see* **2005c:00015**)
— (*with* Peng, Yi[2]; Shi, Yong[1]; Wise, Morgan; Xu, Weixuan) Discovering credit cardholders' behavior by multiple criteria linear programming. (English summary) **2005k:90060**
Kovalenko, K. È. *see* **Emelichev, Vladimir A.**
Kravtsov, M. K. (*with* Pashkevich, A. V.) A multicriterial approach to the optimization of the gross domestic product. (Russian. Russian summary) **2005d:91084**
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Li, Shao Yuan[2] (*with* Zou, Tao; Yang, Yi-Peng) Finding the fuzzy satisfying solutions to constrained optimal control systems and application to robot path planning. (English summary)
Li, Xi Can (*with* Feng, Shao Jun; Yang, Qing Hai; Yu, Su Zhen) Cross interacted algorithm of multiobjective and multidimensional fuzzy making decision. (Chinese. English and Chinese summaries)
Li, Yuan Xiang *see* **Zhou, Yu Ren et al.**
Liang, Shing-Ko (*with* Yang, Kuo-Lung; Chu, Peter) Analysis of fuzzy multiobjective programming to CPM in project management. (English summary)
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— Essential components of the set of weakly Pareto-Nash equilibrium points for multiobjective generalized games in two different topological spaces. (English summary) **2005k:91017**
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Perkgoz, C. (*with* Kato, Kosuke; Katagiri, Hideki; Sakawa, Masatoshi) An interactive fuzzy satisficing method for multiobjective stochastic integer programming problems through variance minimization model. (English summary)
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— Bicriteria optimization of a queue with a controlled input stream. (English summary) **2005f:60204**
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— *see also* **Katagiri, Hideki et al., 2005e:90170**; **2005i:90106** *and* **Perkgoz, C. et al.**
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Shakhnov, I. F. ★ Согласование решений в сложных системах: ранжирование интервальных объектов. (Russian. Russian summary) [Agreement of solutions in complex systems: ranking of interval objects]
Sharma, Dinesh K. (*with* Ghosh, Debasis; Mattison, Dorothy M.) Finding economic order quantities with nonlinear goal programming. (English summary)
Sharma, Kailash Chandra *see* **Bhargava, Shifali**
Shi, Yong[1] (*with* He, Jing[2]; Wang, Lei; Fan, Wei) Computer-based algorithms for multiple criteria and multiple constraint level integer linear programming. (English summary) **2005k:90083**
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Tamura, Hiroyuki[1] Behavioral aspects of decision analysis with application to public sectors. (English summary) (*see* **2005b:90008**)
(Tanaka, Tamaki) *see* **Multi-objective programming and goal programming, 2005b:90008**
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Tind, Jørgen *see* **Klamroth, Kathrin et al., 2005c:90110**
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Tsai, Deng Maw (*with* Wang, Earl Juei) Application of fuzzy multiple goal programming on the selection for power plants considering site and environmental constraints. (English summary)
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Wang, Ming Zheng (*with* Xia, Zun Quan) On the scalarization and ε-duality of set-valued optimization with generalized cone-subconvexlike mappings. (Chinese. English and Chinese summaries)
Wang, Shou Yang *see* **Mishra, Shashi K., 2005h:90075**
Wang, Xiaolu[2] *see* **Zhu, Ziqiang et al.**
Wanka, Gert *see* **Boţ, Radu Ioan, 2005c:49072**
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Yao, Jen Chih *see* **Chiang, Yungyen, 2005g:49014**
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— (*with* Nakayama, Hirotaka J.; Arakawa, M.) Multiple criteria decision making with generalized DEA and an aspiration level method. (English summary) **2005i:90029**
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Zhou, Yu Ren (*with* Min, Hua Qing; Xu, Xiao Yuan; Li, Yuan Xiang) A multi-objective evolutionary algorithm and its convergence. (Chinese. English and Chinese summaries)
Zhu, Dao Li (*with* Xu, Qing; Lin, Zheng Hua) A homotopy method for solving bilevel programming problem. (English summary) **2005b:90103**
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Zhu, Yihua *see* **Luo, Hezhi et al.**
Zhu, Ziqiang (*with* Liu, Zhou; Wang, Xiaolu[2]; Yu, R. X.) Construction of integral objective function/fitness function of multi-objective/multi-disciplinary optimization. (English summary)
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Nara ★ Multi-objective programming and goal programming. **2005b:90008**

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Abo-Sinna, Mahmoud A. (*with* Amer, Azza H.) Extensions of TOPSIS for multi-objective large-scale nonlinear programming problems. (English summary)
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Alexopoulos, S. V. A homogeneous method for unconstrained optimization. (English summary)
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— *see also* **Andreani, Roberto et al., 2005k:90148**
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Bomze, Immanuel M. Optimization of functions with rank-two variation over a box. (English summary) **2005g:90136**
Brekelmans, Ruud (*with* Driessen, Lonneke; Hamers, Herbert; den Hertog, Dick) Constrained optimization involving expensive function evaluations: a sequential approach. (English summary)
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Ding, Xiaosong (*with* Ekenberg, Love; Danielson, Mats) A fast bilinear optimization algorithm. (English summary)
Diniz-Ehrhardt, M. A. (*with* Gomes-Ruggiero, M. A.; Martínez, José Mario; Santos, S. A.) Augmented Lagrangian algorithms based on the spectral projected gradient method for solving nonlinear programming problems. (English summary) **2005g:90137**
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— *see also* **Balbas de la Corte, Alejandro et al., 2005f:90113**
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— *see also* **Wang, Yan Jun et al., 2005i:90071**
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Haberl, J. Maximization of generalized convex functionals in locally convex spaces. (English summary) **2005g:90138**

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Han, Lu *see* **Ye, Jun[3] et al.**, **2005e:90128**

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He, Guang Yu[2] (*with* Lu, Qiang[1]; Chen, Xue Qing) Feasible direction algorithm for solving nonlinear optimization problems. (Chinese. English and Chinese summaries) **2005g:90139**

He, Su Xiang (*with* Zhang, Li Wei; Li, Xing Si) A potential function for solving inequality constrained optimization problems. (Chinese. English and Chinese summaries) **2005f:90119**

— A potential function algorithm for solving inequality constrained optimization problems. (Chinese. English summary) **2005k:90150**

Hedar, Abdel-Rahman (*with* Fukushima, Masao) Simplex coding genetic algorithm for the global optimization of nonlinear functions. (English summary) (*see* **2005b:90008**)

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Ji, Mingjun (*with* Tang, Huanwen) Global optimizations and tabu search based on memory. (English summary)

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Kearfott, Ralph Baker Errata and opinion to: "An interval entropy penalty method for nonlinear global optimization" [Reliab. Comput. **4** (1998), no. 1, 15–25; MR1617525 (99a:90189)] by Z. Huang.

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Liuzzi, Giampaolo *see* **Di Pillo, Gianni et al.**, **2005b:90126**

Lu, Qiang[1] *see* **He, Guang Yu[2] et al.**, **2005g:90139**

Lü, Ying Hua *see* **Zhang, Li Biao et al.**

Lucidi, Stefano *see* **Di Pillo, Gianni et al.**, **2005b:90126**

Luo, Liangsheng *see* **Wu, Xinyuan**, **2005f:90124**

Luo, Xin-long Singly diagonally implicit Runge-Kutta methods combining line search techniques for unconstrained optimization. (English summary) **2005m:90118**

Ma, Ming *see* **Zhang, Li Biao et al.**

Ma, Zhi Qiang *see* **Zhang, Li Biao et al.**

Maaranen, H. (*with* Miettinen, Kaisa; Mäkelä, M. M.) Quasi-random initial population for genetic algorithms. (English summary)

Madsen, Kaj (*with* Søndergaard, Jacob) Convergence of hybrid space mapping algorithms. (English summary) **2005j:90079**

Mäkelä, M. M. *see* **Maaranen, H. et al.**

Mansouri, Abdelatif *see* **Aboussoror, Abdelmalek**, **2005k:90145**

Margaritis, K. *see* **Digalakis, J.**, **2005c:90086**

Martí, Rafael *see* **Ugray, Zsolt et al.**, (**2005h:90007**)

Martínez, José Mario (*with* Pilotta, Elvio A.) Inexact restoration methods for nonlinear programming: advances and perspectives. (English summary) **2005m:90119**

— A note on the theoretical convergence properties of the SIMP method. (English summary) **2005k:90152**

— *see also* **Diniz-Ehrhardt, M. A. et al.**, **2005g:90137**; **Andreani, Roberto et al.**, **2005k:90148** *and* **Birgin, Ernesto G. et al.**, **2005m:90114**

Meng, Zhiqing (*with* Hu, Qiying; Dang, Chuangyin; Yang, Xiao Qi) An objective penalty function method for nonlinear programming. (English summary) **2005d:90118**

Miettinen, Kaisa *see* **Maaranen, H. et al.**

Mijangos, E. An efficient method for nonlinearly constrained networks. (English summary)

Mishra, Shashi K. (*with* Rueda, Norma G.) On univexity-type nonlinear programming problems. (English summary) **2005f:90122**

Moghrabi, Issam A. R. A quadratic termination quasi-Newton algorithm without exact linear searches. (English summary)

Moré, Jorge J. (*with* Munson, Todd S.) Computing mountain passes and transition states. (English summary) **2005d:90119**

Mousa, A. A. *see* **Osman, M. S. et al.**, **2005c:90087**

Munson, Todd S. *see* **Moré, Jorge J.**, **2005d:90119**

Nesterov, Yurii (*with* Vial, J.-Ph.) Augmented self-concordant barriers and nonlinear optimization problems with finite complexity. (English summary) **2005h:90131**

Ning, Wei *see* **Wang, Dao Lin**

Nistri, Paolo *see* **Forti, Mauro et al.**, **2005f:90116**

Noakes, J. Lyle (*with* Kozera, Ryszard) The 2-D leap-frog: integrability, noise, and digitization. (English summary) (*see* **2005j:68006**)

Nocedal, Jorge *see* **Byrd, Richard H. et al.**, **2005c:90085**

Nogueira, Fernando *see* **Alberto, P. V. et al.**, **2005k:90146**

Osman, M. S. (*with* Abo-Sinna, Mahmoud A.; Mousa, A. A.) A solution to the optimal power flow using genetic algorithm. (English summary) **2005c:90087**

Ou, Yi-gui (*with* Hou, Ding-pi) A superlinearly convergent trust region algorithm for LC^1 constrained optimization problems. (English summary) **2005k:90153**

— (*with* Hou, Ding-pi) A new nonmonotonic trust region algorithm for a class of constrained nonsmooth optimization. (English and Chinese summaries) **2005k:90154**

Palagi, Laura *see* **Di Pillo, Gianni et al.**, **2005b:90126**

Páles, Zsolt (*with* Zeidan, Vera) Critical and critical tangent cones in optimization problems. (English summary) **2005c:90088**

Pan, Shaohua[2] (*with* Li, Xing Si) Lagrangian regularization approach to constrained optimization problems. (English summary) **2005h:90132**

Pappalardo, Massimo On the image regularity condition. (English summary) **2005e:90122**

Pardalos, Panos M. *see* **Chinchuluun, Altannar et al.**

Pavel, Nicolae H. *see* **Lee, Haewon**

Pereira, J. G., Jr. *see* **Galperin, Efim A. et al.**, **2005f:90117**

Perkins, James R. *see* **Kogan, Konstantin et al.**, **2005f:90121**

Pickl, Stefan Wolfgang Solving the semismooth equivalence problem. (English summary) **2005b:90132**

Pilotta, Elvio A. *see* **Martínez, José Mario**, **2005m:90119**

Plummer, John C. *see* **Ugray, Zsolt et al.**, (**2005h:90007**)

Polak, Elijah (*with* Royset, J. O.) Cutting sphere algorithm. (English summary) **2005c:90089**

Popa, Mariana *see* **Popa, Marin**, **2005b:90133**

Popa, Marin (*with* Popa, Mariana) Mangasarian type higher-order duality for a class of nondifferentiable mathematical programming problems. (English summary) **2005b:90133**

Price, Christopher J. (*with* Coope, Ian D.) Frames and grids in unconstrained and linearly constrained optimization: a nonsmooth approach. (English summary) **2005b:90134**

— *see also* **Byatt, D. et al.**, **2005e:90118** *and* **Dennis, John E., Jr. et al.**, **2005i:90067**

Pridatko, D. I. *see* **Stoyan, Yu. G. et al.**, **2005g:90143**

Pu, Ding Guo (*with* Li, Kang Di; Xue, Wen Juan) Convergence of QP-free infeasible methods for nonlinear inequality constrained optimization problems. (Chinese. English

- and Chinese summaries)

Qi, Houduo (*with* Qi, Liqun; Sun, De Feng) Solving Karush-Kuhn-Tucker systems via the trust region and the conjugate gradient methods. (English summary) **2005a:90152**

Qi, Liqun (*with* Wan, Zhong; Yang, Yu-Fei) Global minimization of normal quartic polynomials based on global descent directions. (English summary) **2005j:90080**

— *see also* **Qi, Houduo et al., 2005a:90152**

Quincampoix, Marc *see* **Forti, Mauro et al., 2005f:90116**

Rajan, Subramaniam Dharma *see* **Belegundu, Ashok D. et al.**

Ralph, Daniel (*with* Wright, Stephen Joseph) Some properties of regularization and penalization schemes for MPECs. (English summary) **2005g:90140**

— *see also* **Hu, Xinmin, 2005f:90120** *and* **Yang, Xiao Qi, 2005k:90158**

Ramaraj, E. *see* **Sakthivel, S.**

Rapcsák, Tamás Some optimization problems in multivariate statistics. (English summary) **2005b:90135**

Ratz, Dietmar *see* **Vinkó, Tamás**

Rentsen, Enkhbat *see* **Chinchuluun, Altannar et al.**

Rocha, Humberto *see* **Alberto, P. V. et al., 2005k:90146**

Rol'shchikov, V. E. Necessary conditions for an approximate constrained minimum. (Russian. Russian summary) **2005b:90136**

Romanova, Tatiana *see* **Stoyan, Yu. G. et al., 2005g:90143**

Royset, J. O. *see* **Polak, Elijah, 2005c:90089**

Rubinov, Aleksandr M. *see* **Gasimov, Rafail N., 2005a:90150**

Rueda, Norma G. *see* **Mishra, Shashi K., 2005f:90122**

Sadygov, Misreddin A. On extremum conditions in problems of mathematical programming. (English summary) **2005i:90069**

Sakthivel, S. (*with* Ramaraj, E.) A new approach to solve linear fractional programming problems. (English summary)

Santos, S. A. *see* **Diniz-Ehrhardt, M. A. et al., 2005g:90137**

Scheithauer, Guntram *see* **Stoyan, Yu. G. et al., 2005g:90143**

Schoen, F. *see* **Addis, B.**

Sergeev, Yaroslav D. *see* **Gaviano, Marco et al., 2005b:90128** *and* **Strongin, Roman G., 2005b:90137**

Shang, You-lin (*with* Li, Xiao Yan[3]) A filled function with adjustable parameters for unconstrained global optimization. (English summary) **2005m:90120**

Shapiro, Alexander (*with* Sun, Jie) Some properties of the augmented Lagrangian in cone constrained optimization. (English summary) **2005e:90123**

Shen, Jie[4] *see* **Shi, Zhen Jun, 2005f:90123**

Shen, Pei Ping (*with* Zhang, Ke Cun) A linearization method for global solution of generalized geometric programming. (Chinese. English and Chinese summaries) **2005h:90133**

— (*with* Zhang, Ke Cun) An interval slope algorithm for global optimization. (Chinese. English summary) **2005a:90153**

— (*with* Hou, Xue Ping) Algorithm of global optimization for signomial geometric programming. (Chinese. English and Chinese summaries)

— Linearization method of global optimization for generalized geometric programming. (English summary) **2005g:90141**

Shen, Zu He *see* **Wang, Zheng Yu[2]**

Shi, Wen Pu (*with* Liu, Ying Xi; Li, Shou Ju; Chu, Jing Lian) Half-division method for multivariate optimization problems. (Chinese. English and Chinese summaries)

Shi, Zhen Jun (*with* Shen, Jie[4]) A gradient-related algorithm with inexact line searches. (English summary) **2005f:90123**

— Convergence of multi-step curve search method for unconstrained optimization. (English summary) **2005g:90142**

— *see also* **Tang, Jing Yong**

Shu, Chang[2] *see* **Kogan, Konstantin et al., 2005f:90121**

Shukla, D. P. (*with* Tiwari, P. C.) On computation of a new triangulation with continuous refinement of grid size. (English summary) **2005a:90154**

— *see also* **Chandra, Prakash, 2005b:90124**

Singer, A. B. (*with* Barton, Paul I.) Global solution of optimization problems with parameter-embedded linear dynamic systems. (English summary) **2005h:90134**

Snyman, Jan A. *see* **Bolton, Hermanus P. J. et al., 2005j:90077**

Solodov, Mikhail *see* **Dar'ina, A. N. et al., 2005m:90115**

Søndergaard, Jacob *see* **Madsen, Kaj, 2005j:90079**

Stanimirović, Predrag S. (*with* Tasić, Milan B.) A modification of gradient method of convex programming and its implementation. (English summary)

Stein, Oliver *see* **Jongen, Hubertus Th., 2005e:90121**

Stoyan, Yu. G. (*with* Scheithauer, Guntram; Pridatko, D. I.; Romanova, Tatiana) Φ-functions of objects having the spatial boundary shapes of a cone, a cylinder, or a parallelepiped. (Russian. English summary) **2005g:90143**

Strekalovskiĭ, A. S. Some remarks on D.C. programming. **2005i:90070**

Strongin, Roman G. (*with* Sergeev, Yaroslav D.) Global optimization: fractal approach and non-redundant parallelism. (English summary) **2005b:90137**

Sun, De Feng *see* **Qi, Houduo et al., 2005a:90152**

Sun, Jie *see* **Shapiro, Alexander, 2005e:90123**

Sun, Qing Ying Three-term memory gradient Rosen projection method for nonlinear programming with linear or nonlinear inequality constraints. (Chinese. English and Chinese summaries) **2005j:90081**

— Generalized super-memory gradient projection method with arbitrary initial point and conjugate gradient scalar for nonlinear programming with nonlinear inequality constraints. (Chinese. English and Chinese summaries) **2005k:90155**

Sun, Wen Yu Nonmonotone trust region method for solving optimization problems. (English summary) **2005e:90124**

— *see also* **Yang, Zheng Hao, 2005k:90159**

Takano, Masahiro *see* **Yabe, Hiroshi, 2005e:90126**

Tanabe, Takahito *see* **Yamashita, Hiroshi[2] et al., 2005m:90121**

Tang, Huanwen *see* **Ji, Mingjun**

Tang, Jing Yong (*with* Shi, Zhen Jun) A class of new memory gradient methods under strong Wolfe linear search. (Chinese. English and Chinese summaries)

Tasić, Milan B. *see* **Stanimirović, Predrag S.**

Tauts, Ants Optimization problems with points of discontinuity and discrete arguments. (English and Estonian summaries)

Teboulle, Marc *see* **Attouch, H., 2005f:90112**

Tian, Wei Wen (*with* Wu, Dong Hua; Zhang, Lian Sheng; Li, Shan Liang) Modified integral-level set method for the constrained solving global optimization. (Chinese. English and Chinese summaries) **2005e:90125**

Tiwari, P. C. *see* **Shukla, D. P., 2005a:90154**

Toint, Philippe L. *see* **Gould, Nicholas I. M. et al., 2005m:90117**

Torczon, Virginia J. *see* **Kolda, Tamara G., 2005i:90068**

Törn, A. *see* **Ali, M. Montaz, (2005c:90002)**

Toussaint, Marc *see* **Igel, Christian et al., (2005m:41001)**

Tsai, Jung-Fa Global optimization of nonlinear fractional programming problems in engineering design. (English summary)

Tsygankov, Aleksandr Aleksandrovich On a mathematical programming problem in the case when the number of constraints is one less than the dimension of the space of variables. (Russian)

— On the structure of a quadratic form in a mathematical programming problem. (Russian. Russian summary) **2005c:90090**

Ugray, Zsolt (*with* Lasdon, Leon; Plummer, John C.; Glover, Fred W.; Kelly, Jim; Marti, Rafael) A multistart scatter search heuristic for smooth NLP and MINLP problems. (English summary) (*see* **2005h:90007**)

Ulbrich, Stefan On the superlinear local convergence of a filter-SQP method. (English summary) **2005d:90120**

Vial, J.-Ph. *see* **Nesterov, Yurii, 2005h:90131**

Vicente, Luís N. *see* **Alberto, P. V. et al., 2005k:90146**

Ville, James St. *see* **Belegundu, Ashok D. et al.**

Vinkó, Tamás (*with* Ratz, Dietmar) A multidimensional branch-and-prune method for interval global optimization. (English summary)

Walster, G. William (*with* Hansen, Eldon) Using pillow functions to efficiently compute crude range tests. (English summary)

Waltz, Richard A. *see* **Byrd, Richard H. et al., 2005c:90085**

Wan, Weishui *see* **Igel, Christian et al., (2005m:41001)**

Wan, Zhong *see* **Qi, Liqun et al., 2005j:90080**

Wang, Chang Yu (*with* Du, Shou Qiang; Chen, Yuan Yuan) Global convergence properties of three-term conjugate gradient method with new-type line search. (English summary) **2005d:90121**

— *see also* **Yu, Zhen Sheng et al.**

Wang, Dao Lin (*with* Ning, Wei) Fast convergent algorithm for a class of optimization problems. (Chinese. English and Chinese summaries)

Wang, Guang Hui *see* **Yang, Xiao Guang et al., 2005k:90157**

Wang, Ruo Peng (*with* Xing, Zhi Dong) A hybrid algorithm for unconstrained optimization problems. (Chinese. English and Chinese summaries)

Wang, Shou Yang *see* **Zhang, Jian Zhong et al., 2005h:90136**

Wang, Yan Jun (*with* Zhang, Ke Cun; Gao, Yue Lin) Global optimization of generalized geometric programming. (English summary) **2005i:90071**

— (*with* Zhang, Ke Cun) A transformation path algorithm for unconstrained signomial geometric programming. (English summary) **2005k:90156**

— *see also* **Gao, Yue Lin et al.**

Wang, Zheng Yu[2] (*with* Shen, Zu He) Kantorovich theorem for variational inequalities. (Chinese. English and Chinese summaries)

Watson, Layne T. *see* **Haftka, Raphael T., 2005h:90130**

Wei, Zeng-xin (*with* Li, Qiao-xing) A new Huang class and its properties for unconstrained optimization problems. (English and Chinese summaries) 2005j:90082

Wright, Stephen Joseph *see* **Ralph, Daniel, 2005g:90140**

Wu, Dong Hua *see* **Tian, Wei Wen et al., 2005e:90125**

Wu, Qing[2] (*with* Liu, San Yang; Zhang, Le You; Liu, Cheng Cheng) A modified filled function method for global minimization of a nonsmooth programming problem. (Chinese. English and Chinese summaries)

Wu, Xinyuan (*with* Luo, Liangsheng) Point monotonicity of maps and its applications in numerical computation. (English summary) **2005f:90124**

Xing, Zhi Dong *see* **Wang, Ruo Peng**

Xu, Cheng Xian *see* **Li, Fei, 2005b:90131** *and* **Gao, Yue Lin et al.**

Xu, Chuan Sheng *see* **Zhou, Houchun**

Xu, Da Chuan (*with* Han, Ji Ye; Chen, Zhong Wen) Nonmonotone trust-region method for nonlinear programming with general constraints and simple bounds. (English summary) **2005f:90125**

Xu, Qing (*with* Yu, Bo) Homotopy method for non-convex programming in unbonded set. (English summary) **2005i:90072**

Xu, Ren Fei A hybrid method for solving unconstrained optimization problem with singular solutions. (Chinese. English and Chinese summaries)

Xue, Qing Ping *see* **Zhang, Ying Ping et al.**

Xue, Wen Juan *see* **Pu, Ding Guo et al.**

Yabe, Hiroshi (*with* Takano, Masahiro) Global convergence properties of nonlinear conjugate gradient methods with modified secant condition. (English summary) **2005e:90126**

— *see also* **Yamashita, Hiroshi[2] et al., 2005m:90121**

Yamashita, Hiroshi[2] (*with* Yabe, Hiroshi; Tanabe, Takahito) A globally and superlinearly convergent primal-dual interior point trust region method for large scale constrained optimization. (English summary) **2005m:90121**

Yang, Shu Ping *see* **Yuan, Xiu Gui**

Yang, Xiao Guang (*with* Liu, Hong Feng; Wang, Guang Hui) A strongly polynomial algorithm for maximization of product under budget and box constraints. (Chinese. English and Chinese summaries) **2005k:90157**

Yang, Xiao Qi (*with* Ralph, Daniel) Characterizations for perturbed exact penalty functions. (English summary) **2005k:90158**

— *see also* **Meng, Zhiqing et al., 2005d:90118**

Yang, Yu-Fei Globally and superlinearly convergent algorithms for the solution of box-constrained optimization. (English summary) **2005e:90127**

— *see also* **Qi, Liqun et al., 2005j:90080**

Yang, Zheng Hao (*with* Sun, Wen Yu) A simpler proof of global convergence of Broyden

class with inexact line search. (Chinese. English summary) **2005k:90159**

Ye, Jun[3] (*with* Liu, Xiande; Han, Lu) Evolutionary game algorithm for continuous parameter optimization. (English summary) **2005e:90128**

Yin, Hong Xia (*with* Han, Ji Ye; Chen, Zhong Wen) Global convergence of a trust region algorithm for nonlinear inequality constrained optimization problems. (English summary) **2005h:90135**

Yu, Bo *see* **Xu, Qing, 2005i:90072**

Yu, Hong-xia (*with* Zhang, Li Wei) The augmented Lagrangian method for the packing of unequal circles within a strip. (English summary)

Yu, Ji Guo *see* **Yu, Zhen Sheng et al.**

Yu, Zhen Sheng (*with* Wang, Chang Yu; Yu, Ji Guo) Errata and addenda to: "Combining trust region and linesearch algorithm for equality constrained optimization" [J. Appl. Math. Comput. **14** (2004), no. 1-2, 123–136; MR2025427 (2004j:90119)].

— On the global convergence of a Levenberg-Marquardt method for constrained nonlinear equations. (English summary) **2005e:90129**

Yuan, Jin Yun *see* **Andreani, Roberto et al., 2005k:90148**

Yuan, Xiu Gui (*with* Yang, Shu Ping) A trust region algorithm using curve-linear searching direction for unconstrained optimization. (Chinese. English and Chinese summaries)

Zabotin, V. I. (*with* Chernyaev, Yu. A.) Convergence of an iterative method for solving a mathematical programming problem with a constraint in the form of a convex smooth surface. (Russian. Russian summary) **2005c:90091**

Zabotin, Ya. I. (*with* Fukin, I. A.) Algorithms in the penalty method with approximation of the admissible set. (Russian) **2005g:90144**

— *see also* **Andrianova, A. A., 2005g:90134**

Zeidan, Vera *see* **Páles, Zsolt, 2005c:90088**

Zhang, Haibin *see* **Deng, Naiyang, 2005d:90115**

Zhang, Jian Zhong (*with* Liu, Guoshan; Wang, Shou Yang) A globally convergent approximately active search algorithm for solving mathematical programs with linear complementarity constraints. (English summary) **2005h:90136**

Zhang, Ju-Liang On the convergence properties of the Levenberg-Marquardt method. (English summary) **2005c:90130**

— (*with* Chen, Jian) A smoothing Levenberg-Marquardt type method for LCP. (English summary) **2005d:90122**

— A robust trust region method for general constrained optimization. (English summary) **2005k:90160**

Zhang, Ke Cun *see* **Shen, Pei Ping, 2005a:90153**; **2005h:90133**; **Zhu, Zhi Bin, 2005c:90092**; **Wang, Yan Jun et al., 2005i:90071** *and* **2005k:90156**

Zhang, Le You *see* **Wu, Qing**[2] **et al.**

Zhang, Li Biao (*with* Zhou, Chun Guang; Liu, Xiao Hua[3]; Ma, Ming; Lü, Ying Hua; Ma, Zhi Qiang) A novel evolutionary algorithm for solving constrained optimization problems. (Chinese. English and Chinese summaries)

Zhang, Li Ping[1] (*with* Han, Ji Ye; Huang, Zheng Hai) Superlinear/quadratic one-step smoothing Newton method for P_0-NCP. (English summary) **2005k:90161**

Zhang, Li Wei *see* **He, Su Xiang et al., 2005f:90119** *and* **Yu, Hong-xia**

Zhang, Lian Sheng *see* **Tian, Wei Wen et al., 2005e:90125**

Zhang, Lianshen *see* **Gao, Yue Lin et al.**

Zhang, Qun-ying *see* **Fan, Jin-yan et al., 2005f:90115**

Zhang, Ying Ping (*with* Xue, Qing Ping; Zhu, Chuan Chao) A globally convergent algorithm and its convergent rate for unconstrained optimization. (Chinese. English and Chinese summaries)

Zhou, Chun Guang *see* **Zhang, Li Biao et al.**

Zhou, Houchun (*with* Xu, Chuan Sheng) A nonmonotone trust region algorithm for LC^1 unconstrained optimization. (English summary)

Zhu, Chuan Chao *see* **Zhang, Ying Ping et al.**

Zhu, De-tong Interior point projected reduced Hessian method with trust region strategy for nonlinear constrained optimization. (English summary) **2005f:90126**

— Curvilinear paths with nonmonotonic inexact line search technique for unconstrained optimization. (English and Chinese summaries) **2005g:90145**

— Nonmonotonic trust region projected reduced Hessian algorithm with two-piece update for constrained optimization. (English summary) **2005e:90131**

— An interior affine scaling projective algorithm for nonlinear equality and linear inequality constrained optimization. (English summary) **2005e:90132**

Zhu, Zhi Bin (*with* Zhang, Ke Cun) A new conjugate projection gradient method and superlinear convergence. (Chinese. English and Chinese summaries) **2005c:90092**

Items with secondary classifications in 90C30

Alba, Enrique (*with* Luna, Francisco; Nebro, Antonio J.) Advances in parallel heterogeneous genetic algorithms for continuous optimization. (English summary) **2005d:90145**

Al-Baali, M. (*with* Fuduli, Antonio; Musmanno, Roberto) On the performance of switching BFGS/SR1 algorithms for unconstrained optimization. (English summary) **2005a:90194**

Amaral, Paula (*with* Barahona, Pedro) Connections between the total least squares and the correction of an infeasible system of linear inequalities. (English summary) **2005k:15041**

Amini, Keyvan Solving rank one revised linear systems by the scaled ABS method. (English summary) **2005h:65038**

Anandalingam, G. *see* **Viswanathan, Siva**

Andramonov, Mikhail Algorithms for the global maximization of increasing functions. (Russian) **2005a:90125**

Antczak, Tadeusz An η-approximation approach for nonlinear mathematical programming problems involving invex functions. (English summary) **2005j:90062**

Asano, Tetsuo (*with* Kirkpatrick, David; Yap, Chee K.) Pseudo approximation algorithms with applications to optimal motion planning. (English summary) **2005b:68255**

Attouch, H. (*with* Bolte, Jérôme; Redont, P.; Teboulle, Marc) Singular Riemannian barrier methods and gradient-projection dynamical systems for constrained optimization. (English summary) **2005k:34033**

Audet, Charles (*with* Dennis, John E., Jr.) A pattern search filter method for nonlinear programming without derivatives. (English summary) **2005j:90109**

Barahona, Pedro *see* **Amaral, Paula, 2005k:15041**

Bartholomew-Biggs, Michael ★ Nonlinear optimization with financial applications. **2005h:90002**

Bector, C. R. *see* **Vidyottama, V. et al., 2005g:91014**

Bellavia, Stefania (*with* Macconi, Maria; Morini, Benedetta) STRSCNE: a scaled trust-region solver for constrained nonlinear equations. (English summary) **2005b:65061**

Bello, Lenys (*with* Raydan, Marcos) Preconditioned spectral projected gradient method on convex sets. (English summary) **2005k:90211**

Bergamaschi, Luca (*with* Gondzio, Jacek; Zilli, Giovanni) Preconditioning indefinite systems in interior point methods for optimization. (English summary) **2005f:90154**

Bhatia, Davinder *see* **Gupta, Pankaj**[1] **et al., 2005k:90172**

Birbil, Ş. İlker (*with* Fang, Shu-Cherng; Han, Ji Ye) An entropic regularization approach for mathematical programs with equilibrium constraints. (English summary) **2005f:90132**

— (*with* Fang, Shu-Cherng; Frenk, Johannes B. G.; Zhang, Shu Zhong) Recursive approximation of the high dimensional max function. (English summary) **2005m:41039**

Bock, Hans Georg *see* **Diehl, Moritz et al., 2005e:93055**

Bolte, Jérôme *see* **Attouch, H. et al., 2005k:34033**

Bolton, Hermanus P. J. *see* **Snyman, Jan A. et al., (2005a:90005)**

Boyer, Olivier *see* **Faye, Alain, 2005e:90071**

Bratkovič, Franc *see* **Bűrmen, Árpád et al., 2005c:90119**

Brimberg, Jack (*with* Salhi, Said) A continuous location-allocation problem with zone-dependent fixed cost. (English summary)

Bűrmen, Árpád (*with* Bratkovič, Franc; Puhan, Janez; Fajfar, Iztok; Tuma, Tadej) Extended global convergence framework for unconstrained optimization. (English summary) **2005c:90119**

Byrd, Richard H. (*with* Nocedal, Jorge; Waltz, Richard A.) Feasible interior methods using slacks for nonlinear optimization. (English summary) **2005c:90112**

Casado, L. G. *see* **Martínez, J. A. et al.**

Chambolle, Antonin An algorithm for total variation minimization and applications. (English summary) **2005m:49058**

Chandra, Suresh *see* **Vidyottama, V. et al., 2005g:91014**

Chen, Xiao Jun[1] (*with* Fukushima, Masao) A smoothing method for a mathematical program with P-matrix linear complementarity constraints. (English summary) **2005a:90159**

Chen, Yuan Yuan *see* **Du, Shou Qiang**

Chen, Zhong Wen (*with* Zhang, Xiang Sun) A nonmonotone trust-region algorithm with nonmonotone penalty parameters for constrained optimization. (English summary) **2005f:90161**

Cheng, Hao (*with* Fang, Shu-Cherng; Lavery, John E.) A geometric programming framework for univariate cubic L_1 smoothing splines. (English summary) **2005i:65017**

— *see also* **Wang, Yong**[7] **et al., 2005m:65014**

Cheng, Jung-Ho *see* **Hu, Ssu-yuan**

Chernyaev, Yu. A. Two algorithms for solving a mathematical programming problem with preconvex constraints. (Russian. Russian summary) **2005j:90101**

Chiang, Hsiao-Dong *see* **Lee, Jaewook, 2005a:90190**

Coit, David W. *see* **Kulturel-Konak, Sadan et al.**

Colson, Benoît (*with* Marcotte, Patrice; Savard, Gilles) A trust-region method for nonlinear bilevel programming: algorithm and computational experience. (English summary) **2005k:90111**

Combettes, Patrick L. (*with* Pennanen, Teemu) Proximal methods for cohypomonotone operators. (English summary) **2005f:49045**

Coope, Ian D. (*with* Price, Christopher J.) A direct search frame-based conjugate gradients method. (English summary) **2005f:90164**

Crespi, Giovanni P. (*with* Guerraggio, Angelo; Rocca, Matteo) Minty variational inequality and optimization: scalar and vector case. (English summary) **2005g:49015**

— (*with* La Torre, Davide; Rocca, Matteo) Second order optimality conditions for nonsmooth multiobjective optimization problems. (English summary) **2005h:90114**

Csendes, Tibor Generalized subinterval selection criteria for interval global optimization. (English summary)

Dai, Yu-Hong (*with* Yuan, Ya-Xiang) Analysis of monotone gradient methods. (English summary) **2005k:90212**

Darwin, Robert W. *see* **Fowler, Kathleen R. et al.**

Daubechies, Ingrid (*with* Defrise, Michel; De Mol, Christine) An iterative thresholding algorithm for linear inverse problems with a sparsity constraint. (English summary) **2005k:65106**

Defrise, Michel *see* **Daubechies, Ingrid et al., 2005k:65106**

De Mol, Christine *see* **Daubechies, Ingrid et al., 2005k:65106**

Dem'yanov, V. F. Exact penalty functions and problems of the calculus of variations. (Russian. Russian summary) **2005e:49064**

Deng, Xiao Tie (*with* Li, Zhong Fei; Wang, Shou Yang; Yang, Hailiang) Necessary and sufficient conditions for weak no-arbitrage in securities markets with frictions. (English summary) **2005k:91149**

Dennis, John E., Jr. *see* **Audet, Charles, 2005j:90109** *and* **Marsden, Alison L. et al.**

Diehl, Moritz (*with* Bock, Hans Georg; Schlöder, Johannes P.) Newton-type methods for the approximate solution of nonlinear programming problems in real-time. (English summary) **2005e:93055**

Dikin, I. I. Solution of systems of equalities and inequalities by the interior point method. (Russian. English and Ukrainian summaries) **2005m:90158**

Dimnaku, Artan (*with* Kincaid, Rex; Trosset, Michael W.) Approximate solutions of continuous dispersion problems. (English summary)

Đỗ Văn Lu'u *see* **Hoa, Dang, 2005c:90093**

Du, Shou Qiang (*with* Chen, Yuan Yuan) Global convergence for a class of conjugate gradient methods with relaxed line search. (English and Chinese summaries)

Du, Wen (*with* Huang, Chong Chao) Genetic algorithms for bilevel programming. (Chinese. English and Chinese summaries)

Dua, Vivek (*with* Papalexandri, K. P.; Pistikopoulos, Efstratios N.) Global optimization issues in multiparametric continuous and mixed-integer optimization problems. (English summary) **2005h:90097**

Durea, M. Generalized vector equilibrium problems and applications. (English summary)

El-Alem, M. M. (*with* Ibrahim, Sobhy El-sayed; El-Sobky, B.) Local convergence of the interior-point Newton method for general nonlinear programming. (English summary)

2005c:90113
Elbrolosy, M. E. *see* **Youness, Ebrahim A., 2005d:90137**
El-Sobky, B. *see* **El-Alem, M. M. et al., 2005c:90113**
Fajfar, Iztok *see* **Bűrmen, Árpád et al., 2005c:90119**
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Fang, Liu *see* **Liu, Jing[1] et al., 2005b:90169**
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— *see also* **Birbil, Ş. İlker et al., 2005f:90132; 2005m:41039; Cheng, Hao et al., 2005i:65017** *and* **Wang, Yong[7] et al., 2005m:65014**
Farthing, Matthew W. *see* **Fowler, Kathleen R. et al.**
Faye, Alain (*with* Boyer, Olivier) Construction de facettes pour le polytope du sac-à-dos quadratique en 0-1. (English and French summaries) [Constructing the facets of the quadratic 0-1 knapsack polytope] **2005e:90071**
Feng, En Min (*with* Qian, Weiyi) A stochastic approach to global optimization of nonlinear programming problem with many equality constraints. (English summary) **2005d:90091**
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(Fletcher, Roger) *see* **Gould, Nicholas I. M. et al.**
Fowler, Kathleen R. (*with* Kelley, Carl T.; Miller, Cass T.; Kees, Christopher E.; Darwin, Robert W.; Reese, Jill P.; Farthing, Matthew W.; Reed, Mark S. C.) Solution of a well-field design problem with implicit filtering. (English summary)
Frenk, Johannes B. G. *see* **Birbil, Ş. İlker et al., 2005m:41039**
Fu, Jinhua (*with* Sun, Wen Yu) Nonmonotone adaptive trust-region method for unconstrained optimization problems. (English summary)
Fuduli, Antonio *see* **Al-Baali, M. et al., 2005a:90194**
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Gondzio, Jacek *see* **Bergamaschi, Luca et al., 2005f:90154**
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Goulart, E. *see* **Herskovits, J. et al.**
Gould, Nicholas I. M. (*with* Leyffer, Sven; Toint, Philippe L.) Preface: Nonlinear programming: theory and practice [Special issue on large scale nonconvex optimization algorithms and applications in honor of Roger Fletcher's 65th birthday].
Govil, Misha G. (*with* Mehra, Aparna) ε-optimality for nonsmooth programming on a Hilbert space. (English summary) **2005g:90122**
Griewank, Andreas (*with* Walther, Andrea) How up-to-date are low-rank updates? (English and Spanish summaries) **2005m:90165**
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Guerriero, Francesca (*with* Mancini, Marco) Parallelization strategies for rollout algorithms. (English summary)
Gupta, Pankaj[1] (*with* Vlach, Milan; Bhatia, Davinder) Fuzzy approximation to an infeasible generalized linear complementarity problem. (English summary) **2005k:90172**
Haber, Eldad (*with* Modersitzki, Jan) Numerical methods for volume preserving image registration. (English summary) **2005h:65029**
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Hager, William W. (*with* Park, Soonchul) The gradient projection method with exact line search. (English summary) **2005j:90103**
Hamdi, Abdelouahed A Moreau-Yosida regularization of a difference of two convex functions. (English summary) **2005k:90112**
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Hoang Xuan Phu On a necessary optimality condition with invexity. (English summary) **2005h:90155**
— Is invexity weaker than convexity? (English summary) **2005a:90127**
Hol, C. W. J. (*with* Scherer, C. W.) A sum-of-squares approach to fixed-order H_∞-synthesis. **2005j:93029**
Hong, Jie (*with* Fan, Xiu Bin; Fang, Gang; Lu, Xiao Feng) Continuous optimization of Boolean functions. (Chinese. English and Chinese summaries)
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Hsu, Ming-Hsiu (*with* Hsu, Yeh-Liang) Generalization of two- and three-dimensional structural topology optimization. (English summary)
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— (*with* Luo, Mu Hua) An SQP quasi-feasible algorithm with superlinear and quadratic convergence for general constrained optimization. (Chinese. English and Chinese summaries) **2005f:90162**
— (*with* Liang, Yu-mei) Finitely convergent algorithms of generalized gradient projection for systems of nonlinear inequalities. (English summary) **2005i:90100**
— A new feasible descent algorithm combining SQP with generalized projection for optimization problems without strict complementarity. (English summary) **2005h:90169**
— (*with* Tang, Chun-Ming[2]; Hu, Qing-Jie; Zheng, Hai-Yan) A feasible descent SQP algorithm for general constrained optimization without strict complementarity. (English summary) **2005m:90166**
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Knobloch, Matthias Solving convex programs via Lagrangian decomposition. (English summary) **2005k:90105**
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Kokkolaras, Michael (*with* Meade, Andrew J., Jr.; Zeldin, Boris) Concurrent implementation of the optimal incremental approximation method for the adaptive and meshless solution of differential equations. (English summary) **2005a:65076**
(Komlósi, Sándor) *see* **Handbook: Generalized convexity and generalized monotonicity, 2005i:90003**
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Lee, Heung Wing Joseph *see* **Li, Duan et al., 2005g:90103**
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Li, Chun Lian (*with* Wang, Xi Cheng; Zhao, Jin Cheng; Wu, Jin Ying) An information-entropy-based multi-population genetic algorithm. (Chinese. English and Chinese summaries)
Li, Dong Hui[1] (*with* Fukushima, Masao; Qi, Liqun; Yamashita, Nobuo) Regularized Newton methods for convex minimization problems with singular solutions. (English summary) **2005d:90141**
Li, Duan (*with* Wu, Zhi You; Wing, Heung; Lee, Heung Wing Joseph; Yang, Xin Min; Zhang, Lian Sheng) Identification of hidden convex minimization problems. (English summary) **2005g:90103**
Li, Rui Bo *see* **Zheng, Pi E et al.**
Li, Shu Shan *see* **Zhou, Chang Yin et al., 2005m:90075**
Li, Xin-xiu (*with* Liu, Xin Guo[1]) Structured backward errors for structured KKT systems. (English summary) **2005e:65059**
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Liao, Li-Zhi (*with* Qi, Liqun; Tam, Hon Wah) A gradient-based continuous method for large-scale optimization problems. (English summary) **2005m:90161**
Likhovid, A. P. *see* **Shor, N. Z. et al., 2005f:90167**
Lin, Lai-Jiu (*with* Tsai, Yu-Lin) On vector quasi-saddle points of set-valued maps. (English summary) **2005g:90167**
Liu, Deyi *see* **Yu, Chun Xiao et al.**
Liu, Guo Hong *see* **Zheng, Pi E et al.**
Liu, Jing[1] (*with* Zhong, Wei Cai; Fang, Liu; Jiao, Li Cheng) An organizational evolutionary algorithm for constrained and unconstrained optimization problems. (Chinese. English and Chinese summaries) **2005b:90169**
Liu, Xin Guo[1] *see* **Li, Xin-xiu, 2005e:65059**
Liu, Xinwei (*with* Sun, Jie) A robust primal-dual interior-point algorithm for nonlinear programs. (English summary) **2005j:90098**
Locatelli, Marco On the multilevel structure of global optimization problems. (English

summary) **2005i:90051**
Long, Xian-Jun *see* **Peng, Jianwen**, **2005g:90106** *and* **Quan, Jing**
Lu, Xiao Feng *see* **Hong, Jie et al.**
Lu, Yingdong Solving a dynamic resource allocation problem through continuous optimization. (English summary) **2005m:93165**
Lucidi, Stefano (*with* Piccialli, Veronica) A derivative-based algorithm for a particular class of mixed variable optimization problems. (English summary) **2005b:90072**
— *see also* **Grippo, L.**, **2005k:90213**
Lukšan, Ladislav (*with* Matonoha, Ctirad; Vlček, Jan) Interior-point method for non-linear non-convex optimization. (English summary) **2005b:90158**
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Maksimov, Vyacheslav I. ★ Dynamical inverse problems of distributed systems. **2005j:93002**
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Marsden, Alison L. (*with* Wang, Meng[1]; Dennis, John E., Jr.; Moin, Parviz) Optimal aeroacoustic shape design using the surrogate management framework. (English summary)
Martínez, J. A. (*with* Casado, L. G.; García-Fernández, I.; Sergeev, Yaroslav D.; Tóth, Boglárka) On an efficient use of gradient information for accelerating interval global optimization algorithms. (English summary)
Măruşter, Ştefan On the projection methods for convex feasibility problems. (English summary)
Mastroeni, Giandomenico Gap functions and descent methods for Minty variational inequality. (English summary) (*see* **2005m:90002**)
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Mehra, Aparna *see* **Govil, Misha G.**, **2005g:90122**
Mijangos, E. On the efficiency of multiplier methods for nonlinear network problems with nonlinear constraints. (English summary) **2005b:90020**
Milanov, Peter (*with* Trenchev, Ivan; Pencheva, Nevena) Explicit description of the set of all theoretical genetic codes. (English summary)
Miller, Cass T. *see* **Fowler, Kathleen R. et al.**
Minchenko, L. I. (*with* Kulaga, V. N.; Tarakanov, A. N.) Decomposition algorithm for lot-sizing problems of optimization. (English summary) **2005j:90041**
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Moin, Parviz *see* **Marsden, Alison L. et al.**
Mordukhovich, Boris S. (*with* Rockafellar, R. Tyrrell) Preface [Variational analysis and its applications].
Morini, Benedetta *see* **Bellavia, Stefania et al.**, **2005b:65061**
Mota Soares, Cristóvão M. *see* **Herskovits, J. et al.**
Musmanno, Roberto *see* **Al-Baali, M. et al.**, **2005a:90194**
Nakagawa, Yuji An improved surrogate constraints method for separable nonlinear integer programming. (English summary) **2005a:90110**
Nebro, Antonio J. *see* **Alba, Enrique et al.**, **2005d:90145**
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— A null space method for solving system of equations. (English summary) **2005b:90163**
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Noor, Muhammad Aslam Fundamentals of mixed quasi variational inequalities. (English summary)
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Obuchowska, Wiesława T. Remarks on the analytic centers of convex sets. (English summary) **2005h:90096**
O'Hara, John G. (*with* Pillay, Paranjothi; Xu, Hong-Kun) Iterative approaches to convex minimization problems. (English summary) **2005i:90045**
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Park, Soonchul *see* **Hager, William W.**, **2005j:90103**
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Peng, Jianwen (*with* Long, Xian-Jun) A remark on preinvex functions. **2005g:90106**
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Quan, Jing (*with* Long, Xian-Jun) The properties of semistrictly prequasi-invex functions. (English and Chinese summaries)
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Reese, Jill P. *see* **Fowler, Kathleen R. et al.**
Regis, Rommel G. (*with* Shoemaker, Christine A.) Constrained global optimization of expensive black box functions using radial basis functions. (English summary)
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Rokaya, Mahmoud B. *see* **Youness, Ebrahim A.**
Rosen, J. Ben (*with* Marcia, Roummel F.) Convex quadratic approximation. (English summary) **2005d:90088**
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Salhi, Said *see* **Brimberg, Jack**
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(Schaible, Siegfried) *see* **Handbook: Generalized convexity and generalized monotonicity**, **2005i:90003**
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Schlöder, Johannes P. *see* **Diehl, Moritz et al.**, **2005e:93055**
Schutte, Jaco F. (*with* Groenwold, Albert A.) A study of global optimization using particle swarms. (English summary)
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Shen, Jie[4] *see* **Shi, Zhen Jun**, **2005j:90104**
Shi, Zhen Jun (*with* Shen, Jie[4]) A new descent algorithm with curve search rule. (English summary) **2005j:90104**
Shoemaker, Christine A. *see* **Regis, Rommel G.**
Shor, N. Z. (*with* Zhurbenko, N. G.; Likhovid, A. P.; Stetsyuk, P. I.) Development of algorithms for nondifferentiable optimization and their applications. (Russian. English and Ukrainian summaries) **2005f:90167**
Smith, Alice E. *see* **Kulturel-Konak, Sadan et al.**
Snyman, Jan A. (*with* Bolton, Hermanus P. J.; Groenwold, Albert A.) A multi-start methodology for constrained global optimization using novel constrained local optimizers. (English summary) (*see* **2005a:90005**)
— ★ Practical mathematical optimization. **2005i:90001**
Solodov, Mikhail On the sequential quadratically constrained quadratic programming methods. (English summary) **2005a:90196**
Stancu-Minasian, Ioan M. Optimality conditions and duality in multiobjective nonlinear programming involving semilocally b-preinvex and related functions. (English summary) **2005i:90063**
— Optimality conditions for nonlinear programming with generalized locally arcwise connected functions. (English summary) **2005h:90157**
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Street, W. Nick Oblique multicategory decision trees using nonlinear programming. (English summary)
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Sun, Jie *see* **Fang, Shu-Cherng et al.**, **2005b:49020**; **Zhou, Guang Lu et al.**, **2005j:90060** *and* **Liu, Xinwei**, **2005j:90098**
Sun, Qing Ying Global convergence results of a three term memory gradient method with a non-monotone line search technique. (English summary) **2005j:90105**
Sun, Wen Yu *see* **Fu, Jinhua**
Tam, Hon Wah *see* **Liao, Li-Zhi et al.**, **2005m:90161**
Tammer, Chr. *see* **Göpfert, A. et al.**, **2005e:90106**
Tang, Chun-Ming[2] *see* **Jian, Jin Bao et al.**, **2005m:90166**
Tarakanov, A. N. *see* **Minchenko, L. I. et al.**, **2005j:90041**
Teboulle, Marc *see* **Attouch, H. et al.**, **2005k:34033**
Teo, Kok Lay *see* **Yang, Xin Min et al.**, **2005e:90152**
Thierfelder, J. *see* **Giorgi, Giorgio et al.**, **2005f:90002**
Ţigan, Ştefan On the White's algorithm for fractional programming. (English summary) **2005d:90124**
Toh, Kim-Chuan *see* **Zhou, Guang Lu et al.**, **2005j:90060**
Toint, Philippe L. *see* **Gould, Nicholas I. M. et al.**
Tong, Xiao Jiao (*with* Zhou, Shu Zi) A trust-region algorithm for nonlinear constrained optimization problem. (English and Chinese summaries) **2005k:93126**
— (*with* Qi, Liqun) On the convergence of a trust-region method for solving constrained nonlinear equations with degenerate solutions. (English summary) **2005i:65082**
— (*with* Zhou, Shu Zi) A smoothing projected Newton-type method for semismooth equations with bound constraints. (English summary) **2005m:90163**
Torsney, B. (*with* Mandal, Saumendranath) Multiplicative algorithms for constructing optimizing distributions: further developments. (English summary) (*see* **2005f:62009**)
Tóth, Boglárka *see* **Martínez, J. A. et al.**

Tran Thi Hue (*with* Strodiot, Jean-Jacques) Convergence analysis of a relaxed extragradient-proximal point algorithm application to variational inequalities. (English summary) **2005k:49032**
Trenchev, Ivan *see* **Milanov, Peter et al.**
Trosset, Michael W. *see* **Dimnaku, Artan et al.**
Tsai, Yu-Lin *see* **Lin, Lai-Jiu, 2005g:90167**
Tseng, Paul An analysis of the EM algorithm and entropy-like proximal point methods. (English summary) **2005d:90093**
Tuma, Tadej *see* **Bűrmen, Árpád et al., 2005c:90119**
Tvalodze, Yu. *see* **Zhuzhunashvili, A., 2005e:65082**
Vanti, Márcia *see* **Gonzaga, Clóvis C. et al., 2005d:49049**
Vidyottama, V. (*with* Chandra, Suresh; Bector, C. R.) Bi-matrix games with fuzzy goals and fuzzy pay-offs. (English summary) **2005g:91014**
Viswanathan, Siva (*with* Anandalingam, G.) Pricing strategies for information goods. (English summary)
Vlach, Milan *see* **Gupta, Pankaj[1] et al., 2005k:90172**
Vlček, Jan *see* **Lukšan, Ladislav et al., 2005b:90158**
Walther, Andrea *see* **Griewank, Andreas, 2005m:90165**
Waltz, Richard A. *see* **Byrd, Richard H. et al., 2005c:90112**
Wan, Zhong Global convergence of a modified SQP method for mathematical programs with inequalities and equalities constraints. (English summary) **2005e:90161**
Wang, Chang Yu *see* **Wang, Yiju et al., 2005c:90102**
Wang, Meng[1] *see* **Marsden, Alison L. et al.**
Wang, Shou Yang *see* **Deng, Xiao Tie et al., 2005k:91149**
Wang, Wei[9] (*with* Zhang, Lian Sheng; Xu, Yi Fan) A revised conjugate gradient projection algorithm for inequality constrained optimizations. (English summary) **2005h:90167**
Wang, Xi Cheng *see* **Li, Chun Lian et al.**
Wang, Yiju (*with* Zhou, Houchun; Wang, Chang Yu) A regularization Newton method for mixed complementarity problems. (English summary) **2005c:90102**
Wang, Yong[7] (*with* Fang, Shu-Cherng; Lavery, John E.; Cheng, Hao) A geometric programming approach for bivariate cubic L_1 splines. (English summary) **2005m:65014**
Wei, Lingyun (*with* Zhao, Mei) A niche hybrid genetic algorithm for global optimization of continuous multimodal functions. (English summary)
Wei, Zeng-xin (*with* Yu, Gaohang; Yuan, Gonglin; Lian, Zhigang) The superlinear convergence of a modified BFGS-type method for unconstrained optimization. (English summary) **2005j:90107**
Wing, Heung *see* **Li, Duan et al., 2005g:90103**
Winkler, Kristin Geoffrion proper efficiency in an infinite dimensional space. (English summary) **2005e:90116**
Wu, Jin Ying *see* **Li, Chun Lian et al.**
Wu, Soon-Yi *see* **Fang, Shu-Cherng et al., 2005b:49020**
Wu, Yong[1] (*with* Özdamar, Linet; Kumar, Arun[4]) TRIOPT: a triangulation-based partitioning algorithm for global optimization. (English summary)
Wu, Zhi You *see* **Li, Duan et al., 2005g:90103**
Xia, You Sheng Further results on global convergence and stability of globally projected dynamical systems. (English summary) **2005e:34153**
Xu, Cheng Xian *see* **Xue, Hong-gang et al., 2005f:90170**
Xu, Da Chuan Global convergence of the Broyden's class of quasi-Newton methods with nonmonotone linesearch. (English summary) **2005f:90160**
Xu, Feng-min *see* **Xue, Hong-gang et al., 2005f:90170**
Xu, Hong-Kun *see* **O'Hara, John G. et al., 2005i:90045**
Xu, Yi Fan *see* **Wang, Wei[9] et al., 2005h:90167**
Xue, Hong-gang (*with* Xu, Cheng Xian; Xu, Feng-min) A branch and bound algorithm for separable concave programming. (English summary) **2005f:90170**
Yamashita, Nobuo *see* **Li, Dong Hui[1] et al., 2005d:90141**
Yang, Hailiang *see* **Deng, Xiao Tie et al., 2005k:91149**
Yang, Xiao Qi *see* **Yang, Xin Min et al., 2005e:90152**
Yang, Xin Min (*with* Yang, Xiao Qi; Teo, Kok Lay; Hou, Shui Hung) Second-order duality for nonlinear programming. (English summary) **2005e:90152**
— (*with* Yang, Xiao Qi; Teo, Kok Lay) Huard type second-order converse duality for nonlinear programming. (English summary)
— *see also* **Li, Duan et al., 2005g:90103**
Yap, Chee K. *see* **Asano, Tetsuo et al., 2005b:68255**
Ye, Jane J. Nondifferentiable multiplier rules for optimization and bilevel optimization problems. (English summary) **2005h:90158**
Youness, Ebrahim A. (*with* Elbrolosy, M. E.) Extension to necessary optimality conditions in complex programming. (English summary) **2005d:90137**
— (*with* Rokaya, Mahmoud B.) A parametric method for solving linear multiplicative programming problem. (English summary)
Yu, Chun Xiao (*with* Shen, Guangxian; Liu, Deyi) Mathematical programming solution for the frictional contact multipole BEM. (English summary)
Yu, Gaohang *see* **Wei, Zeng-xin et al., 2005j:90107**
Yu, Thomas P.-Y. *see* **Han, Bin[2] et al., 2005d:42042**
Yuan, Gonglin *see* **Wei, Zeng-xin et al., 2005j:90107**
Yuan, Ya-Xiang *see* **Dai, Yu-Hong, 2005k:90212**
Zălinescu, Constantin *see* **Göpfert, A. et al., 2005e:90106**
Zalmai, G. J. Optimality conditions and duality models for minmax fractional subset programming problems with generalized $(\mathscr{F}, \alpha, \rho, \theta)$-$V$-convex functions. (English summary) **2005d:90125**
Zeldin, Boris *see* **Kokkolaras, Michael et al., 2005a:65076**
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Zhang, Lian Sheng *see* **Li, Duan et al., 2005g:90103** *and* **Wang, Wei[9] et al., 2005h:90167**
Zhang, Shu Zhong *see* **Birbil, Ş. İlker et al., 2005m:41039**
Zhang, Xiang Sun *see* **Chen, Zhong Wen, 2005f:90161**
Zhao, Jin Cheng *see* **Li, Chun Lian et al.**
Zhao, Mei *see* **Wei, Lingyun**
Zhao, Xinchao A greedy genetic algorithm for unconstrained global optimization. (English summary)
Zhao, Yu Chao *see* **Zheng, Pi E et al.**
Zheng, Hai-Yan *see* **Jian, Jin Bao et al., 2005m:90166**
Zheng, Pi E (*with* Zhao, Yu Chao; Liu, Guo Hong; Li, Rui Bo) Hierarchical optimization method for a class of nonlinear bilevel programming problems. (Chinese. English and Chinese summaries)
Zhong, Wei Cai *see* **Liu, Jing[1] et al., 2005b:90169**
Zhou, Chang Yin (*with* He, Guo Ping) An inexact Lagrange-Newton method for stochastic quadratic programs with recourse. (English summary) **2005a:90117**
— (*with* He, Guo Ping; Li, Shu Shan) A stochastic-search-based global convergence algorithm for constrained optimization problems. (Chinese. English and Chinese summaries) **2005m:90075**
Zhou, Guang Lu (*with* Toh, Kim-Chuan; Sun, Jie) Efficient algorithms for the smallest enclosing ball problem. (English summary) **2005j:90060**
Zhou, Houchun *see* **Wang, Yiju et al., 2005c:90102**
Zhou, Shu Zi *see* **Tong, Xiao Jiao, 2005k:93126** *and* **2005m:90163**
Zhou, Yan[2] *see* **Pu, Ding Guo et al., 2005f:93107**
Zhu, De-tong An affine scaling interior point backtracking algorithm for nonlinear constrained optimisation. (English summary) **2005e:90158**
— A two-piece update of projected Hessian algorithm with nonmonotonic trust region method for constrained optimization. (English summary) **2005d:90143**
— An affine scaling projective reduced Hessian algorithm for minimum optimization with nonlinear equality and linear inequality constraints. (English summary)
Zhu, Qiji J. Nonconvex separation theorem for multifunctions, subdifferential calculus and applications. (English summary) **2005c:49061**
Zhu, Zhi Bin (*with* Zhang, Ke Cun) A new SQP algorithm for inequality constrained optimization. (Chinese. English and Chinese summaries) **2005k:90219**
— A feasible interior-point algorithm for nonconvex nonlinear programming. (English summary) **2005i:90099**
— An efficient sequential quadratic programming algorithm for nonlinear programming. (English summary) **2005k:90220**
Zhurbenko, N. G. *see* **Shor, N. Z. et al., 2005f:90167**
Zhuzhunashvili, A. (*with* Tvalodze, Yu.) On numerical method for some singular minimization problems. (English and Georgian summaries) **2005e:65082**
Zilli, Giovanni *see* **Bergamaschi, Luca et al., 2005f:90154**

Items listed otherwise than by author

Handbook:
Generalized convexity and generalized monotonicity ★ Handbook of generalized convexity and generalized monotonicity. **2005i:90003**

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Ait Mansour, Mohamed (*with* Riahi, Hassan) Sensitivity analysis for abstract equilibrium problems. (English summary) **2005k:90162**
Aman, M. (*with* Kerayechian, A.) The sensitivity analysis of the linear programming methods for the Stokes problem. (English summary)
Andronov, V. G. *see* **Belousov, E. G., 2005e:90133**
Arutyunov, Aram V. (*with* Izmailov, Alekseĭ Feridovich) Abnormal equality-constrained optimization problems: sensitivity theory. (English summary) **2005m:90122**
— (*with* Izmailov, Alekseĭ Feridovich) Sensitivity analysis for abnormal optimization problems with a cone constraint. (Russian. Russian summary) **2005f:90127**
— (*with* Izmailov, Alekseĭ Feridovich) Sensitivity analysis for cone-constrained optimization problems under the relaxed constraint qualifications. (English summary) **2005m:90123**
Barmish, B. Ross *see* **Ganesan, Ashwin et al., 2005b:90138**
Belousov, E. G. (*with* Andronov, V. G.) On the structure of the stability domain of a local Hoffman constant. (Russian. Russian summary) **2005e:90133**
Bui Trong Kien On the lower semicontinuity of optimal solution sets. (English summary) **2005m:90124**
Burke, James V. (*with* Deng, Sien) Weak sharp minima revisited. I. Basic theory. (English summary) **2005a:90155**
Cho, Yeol Je *see* **Ding, Ke et al.**
Davydov, Alekseĭ A. Generic singularities of velocities of optimal strategies of one-parameter cyclic processes. (Russian. Russian summary) **2005i:90073**
Deng, Sien *see* **Burke, James V., 2005a:90155**
Ding, Ke (*with* Huang, Nan Jing; Cho, Yeol Je) Sensitivity analysis for a new system of generalized strongly nonlinear projection equations. (English summary)
Ding, Ti Ming Sensitivity analysis for generalized parametric implicit quasi-variational inequalities. (English summary)
Dontchev, Asen L. An introduction to strong regularity. (English summary) **2005i:90074**
Đỗ Văn Lưu *see* **Hoa, Dang, 2005c:90093**
Dua, Vivek *see* **Pistikopoulos, Efstratios N. et al., (2005a:90005)**
Durea, M. On error bounds for vector valued functions. (English summary) **2005g:90146**
Emelichev, Vladimir A. (*with* Kovalenko, K. È.) A quasi-stability criterion for a vector combinatorial problem with partial criteria of the MINMIN MODUL form. (Russian. English and Russian summaries)
Enkhbat, Rentsen (*with* Guddat, Jürgen) From linear parametric optimization to nonlinear parametric optimization: methods and algorithms (survey). (English summary)
Fanghänel, Diana Regions of stability for nonlinear discrete optimization problems. (English summary) **2005h:90137**
Ganesan, Ashwin (*with* Ross, Sheila R.; Barmish, B. Ross) An extreme point result for convexity, concavity and monotonicity of parameterized linear equation solutions. (English summary) **2005b:90138**
Gedeon, Tomáš *see* **Parker, Albert E., 2005i:90076**
Guddat, Jürgen *see* **Enkhbat, Rentsen**
Hadigheh, Alireza Ghafari (*with* Terlaky, Tamás) Sensitivity analysis in convex quadratic optimization: invariant support set interval. (English summary) **2005i:90075**
Hoa, Dang (*with* Đỗ Văn Lưu) On the stability of local minima in nonsmooth mathematical programs. (English summary) **2005c:90093**
Huang, Hui Global weak sharp minima and completeness of metric space. (English summary) **2005m:90125**

Huang, Nan Jing *see* **Ding, Ke et al.**
Izmailov, Alekseĭ Feridovich *see* **Arutyunov, Aram V., 2005f:90127; 2005m:90122** *and* **2005m:90123**
Jeyakumar, V. (*with* Nguyễn Đông Yên) Solution stability of nonsmooth continuous systems with applications to cone-constrained optimization. (English summary) **2005h:90138**
Jin, Mao Ming Sensitivity analysis for completely generalized nonlinear parametric implicit quasivariational inclusion. (English and Chinese summaries)
Kang, Shin Min *see* **Liu, Ze Qing et al.**
Kerayechian, A. *see* **Aman, M.**
Kim, Gwang Il *see* **Liu, Ze Qing et al.**
Konnov, Igor V. Convex optimization problems with arbitrary right-hand side perturbations. (English summary) **2005m:90126**
Kovalenko, K. È. *see* **Emelichev, Vladimir A.**
Kozina, Galina Discrete optimization problems with interval data: Pareto set of solutions or set of weak solutions? (English summary) **2005g:90147**
Liu, Xin Guo[1] (*with* Wang, Xue Feng[3]) Structured sensitivity analysis for a class of KKT systems. (Chinese. English and Chinese summaries) **2005k:90163**
Liu, Ze Qing (*with* Sun, Juhe; Kang, Shin Min; Kim, Gwang Il) Sensitivity analysis for generalized parametric nonlinear quasivariational inequalities. (English summary)
López, Marco A. (*with* Rubinov, Aleksandr M.; Vera de Serio, Virginia N.) Stability of the lower level sets of ICAR functions. (English summary) **2005m:90127**
Luo, Dehai *see* **Xu, Hui[2], 2005b:90139**
Mifflin, Robert (*with* Sagastizábal, Claudia) Relating $\mathscr{U}$-Lagrangians to second-order epiderivatives and proximal-tracks. (English summary) **2005m:90128**
Ng, Kung Fu (*with* Zheng, Xi Yin) Characterizations of error bounds for convex multifunctions on Banach spaces. (English summary) **2005c:90094**
— *see also* **Zheng, Xi Yin, 2005f:90129**
Nguyễn Đông Yên *see* **Jeyakumar, V., 2005h:90138**
Parker, Albert E. (*with* Gedeon, Tomáš) Bifurcation structure of a class of S_N-invariant constrained optimization problems. (English summary) **2005i:90076**
Pistikopoulos, Efstratios N. (*with* Dua, Vivek; Ryu, Jun-hyung) Global optimization of bilevel programming problems via parametric programming. (English summary) (*see* **2005a:90005**)
Quan, Yong (*with* Yang, Jie[3]; Ye, Chengzhou) A study of tuning hyperparameters for support vector machines. (English summary) (*see* **2005g:65008**)
Rassias, Themistocles M. On the stability of minimum points. **2005a:90156**
Riahi, Hassan *see* **Ait Mansour, Mohamed, 2005k:90162**
Robinson, Stephen M. Variational conditions with smooth constraints: structure and analysis. (English summary) **2005c:90095**
— Localized normal maps and the stability of variational conditions. (English summary) **2005f:90128**
Rokaya, Mahmoud B. *see* **Youness, Ebrahim A.**
Ross, Sheila R. *see* **Ganesan, Ashwin et al., 2005b:90138**
Rubinov, Aleksandr M. *see* **López, Marco A. et al., 2005m:90127**
Ryu, Jun-hyung *see* **Pistikopoulos, Efstratios N. et al., (2005a:90005)**
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Terlaky, Tamás *see* **Hadigheh, Alireza Ghafari, 2005i:90075**
Vera de Serio, Virginia N. *see* **López, Marco A. et al., 2005m:90127**
Wang, Xue Feng[3] *see* **Liu, Xin Guo[1], 2005k:90163**
Xu, Hui[2] (*with* Luo, Dehai) Application of nonlinear optimization method to sensitivity analysis of numerical model. (English summary) **2005b:90139**
Yang, Jie[3] *see* **Quan, Yong et al., (2005g:65008)**
Ye, Chengzhou *see* **Quan, Yong et al., (2005g:65008)**
Yıldırım, E. Alper Unifying optimal partition approach to sensitivity analysis in conic optimization. (English summary) **2005e:90134**
Youness, Ebrahim A. (*with* Rokaya, Mahmoud B.) A parametric method for solving linear multiplicative programming problem. (English summary)
Zheng, Xi Yin Error bounds for set inclusions. (English summary) **2005a:90157**
— (*with* Ng, Kung Fu) Error bound moduli for conic convex systems on Banach spaces. (English summary) **2005f:90129**
— *see also* **Ng, Kung Fu, 2005c:90094**

Items with secondary classifications in 90C31

Adly, Samir (*with* Ernst, Emil; Théra, Michel) Well-positioned closed convex sets and well-positioned closed convex functions. (English summary) **2005h:49041**
Allende Alonso, Sira M. (*with* Guddat, Jürgen; Nowack, Dieter) A modified standard embedding for linear complementarity problems. (English summary) **2005i:90079**
Alvarez, Felipe Weak convergence of a relaxed and inertial hybrid projection-proximal point algorithm for maximal monotone operators in Hilbert space. (English summary) **2005f:49013**
Argyros, Ioannis K. On the approximation of strongly regular solutions for generalized equations. (English summary)
Arıkan, Orhan *see* **Pınar, Mustafa Ç., 2005e:65060**
Asratyan, A. S. (*with* Kuzyurin, N. N.) Analysis of the accuracy of randomized rounding for integer linear programming problems. (Russian. Russian summary) **2005m:90065**
Avetisyan, Ruben Avetisovich *see* **Khachatryan, R. A. et al., 2005k:49050**
Azé, Dominique (*with* Corvellec, Jean-Noël) Characterizations of error bounds for lower semicontinuous functions on metric spaces. (English summary) **2005e:49027**
Beck, Amir (*with* Teboulle, Marc) Convergence rate analysis and error bounds for projection algorithms in convex feasibility problems. (English summary) **2005f:90083**
Bednarczuk, Ewa M. Continuity of minimal points with applications to parametric multiple objective optimization. (English summary) **2005j:90072**
— Weak sharp efficiency and growth condition for vector-valued functions with applications. (English summary) **2005m:90102**
Bertsimas, Dimitris (*with* Sim, Melvyn) The price of robustness. (English summary) **2005a:90092**
— (*with* Pachamanova, Dessislava; Sim, Melvyn) Robust linear optimization under general norms. (English summary) **2005e:90057**
Bhatia, Davinder *see* **Singh, Sanjeet et al., 2005d:90123**
Biswal, M. P. *see* **Chakraborty, Bidushi et al.**
Bosch, Paul J. (*with* Jourani, Abderrahim; Henrion, René) Sufficient conditions for error bounds and applications. **2005e:49028**
Brunetti, Sara (*with* Daurat, Alain) Stability in discrete tomography: some positive results. (English summary) **2005j:90043**
Bukhtoyarov, S. E. (*with* Emelichev, Vladimir A.) Parametrization of the optimality principle ("from Pareto to Slater") and the stability of multicriterial trajectory problems. (Russian. Russian summary) **2005f:90103**
— (*with* Emelichev, Vladimir A.; Stepanishina, Yu. V.) Problems in the stability of vector discrete problems with a parametric optimality principle. (Russian. English and Ukrainian summaries) **2005e:90105**
— (*with* Emelichev, Vladimir A.) On quasistability radius of a vector trajectorial problem with a principle of optimality generalizing Pareto and lexicographic principles. (English summary)
Burke, James V. (*with* Lewis, Adrian S.; Overton, Michael L.) Variational analysis of the abscissa mapping for polynomials via the Gauss-Lucas theorem. (English summary) **2005b:49042**
Calafiore, Giuseppe (*with* Campi, M. C.) Uncertain convex programs: randomized solutions and confidence levels. (English summary) **2005k:90104**
Cambini, Riccardo (*with* Marchi, A.) A note on the connectedness of the efficient frontier. (English summary) **2005k:90130**
Campi, M. C. *see* **Calafiore, Giuseppe, 2005k:90104**
Cánovas, María J. (*with* López, Marco A.; Parra, Juan) On the continuity of the optimal value in parametric linear optimization: stable discretization of the Lagrangian dual of nonlinear problems. (English summary) **2005k:90179**
Chadli, Ouayl *see* **Yao, Jen Chih, (2005i:90003)**
Chakraborty, Bidushi (*with* Nanda, Sudarsan; Biswal, M. P.) On the solution of parametric linear complementarity problems. (English summary)
Chakravarti, Nilotpal *see* **Ramaswamy, Ramkumar et al., 2005j:90088**
Chanas, Stefan (*with* Kasperski, Adam) Sensitivity analysis in the single-machine scheduling problem with max-min criterion. (English summary) **2005k:90033**
Chen, Jian *see* **Zhang, Ju-Liang, 2005d:90122**
Choi, Jinhoon (*with* Kwon, Wook Hyun) Continuity and exponential stability of mixed constrained model predictive control. (English summary) **2005a:93131**
Corvellec, Jean-Noël *see* **Azé, Dominique, 2005e:49027**
Craven, Bruce D. *see* **Li, Mao Qin, 2005i:90060**
Csenki, Attila Marginal cost analysis of single-item maintenance policies with several decision variables. (English summary) **2005a:90043**
Daurat, Alain *see* **Brunetti, Sara, 2005j:90043**
Deng, Sien (*with* Yang, Xiao Qi) Weak sharp minima in multicriteria linear programming. (English summary) **2005m:90103**
Devyaterikova, M. V. (*with* Kolokolov, A. A.) On the stability of some integer programming algorithms. (Russian) **2005d:90080**
— (*with* Kolokolov, A. A.) Analysis of the stability of some discrete optimization algorithms. (Russian. Russian summary) **2005e:90073**
Dontchev, Asen L. (*with* Rockafellar, R. Tyrrell) Regularity and conditioning of solution mappings in variational analysis. (English summary) **2005d:49031**
Du, Li Li[1] New primal neutral networks for solving a class of nonlinear programs with linear constraints. (Chinese. English and Chinese summaries)
Dua, Vivek *see* **Sakizlis, Vassilis et al., 2005k:93088**
Ekárt, Anikó (*with* Németh, S. Z.) Stability analysis of tree structured decision functions. (English summary)
Ekoko, P. O. An algorithm for evaluating continuous changes in right-hand side (r.h.s.) values of LP problem. (English summary)
Emelichev, Vladimir A. (*with* Kuz′min, K. G.; Leonovich, A. M.) Stability in vector combinatorial optimization problems. (Russian. Russian summary) **2005d:90095**
— (*with* Kuz′min, K. G.; Leonovich, A. M.) On quasistability of a vector combinatorial problem with Σ-MINMAX and Σ-MINMIN partial criteria. (English summary) **2005d:90083**
— (*with* Kuz′min, K. G.) On the stability radius of a strictly effective solution of a vector minimization problem for threshold functions in the l_1 metric. (Russian. English and Ukrainian summaries) **2005k:90133**
— (*with* Kuz′min, K. G.) On the quasi-stability radius of a vector trajectory problem of lexicographic optimization in the metric l_1. (Russian. English and Russian summaries) **2005m:90104**
— *see also* **Bukhtoyarov, S. E. et al., 2005e:90105** *and* **2005f:90103**
Ernst, Emil *see* **Adly, Samir et al., 2005h:49041**
Eshaghi Gordji, M. *see* **Seresht, M. Zahedi**
Famili, Iman *see* **Wiback, Sharon J. et al.**
Fleischer, Lisa (*with* Iwata, Satoru) A push-relabel framework for submodular function minimization and applications to parametric optimization. (English summary) **2005b:90106**
Flores-Bazán, Fabián (*with* López, Ruben) The linear complementarity problem under asymptotic analysis. (English summary) **2005k:90171**
Gambardella, Luca Maria *see* **Montemanni, R., 2005e:90099**
Gao, Haiyan[2] *see* **Kang, Shin Min et al.**
Gerdts, Matthias On the convergence of linearized implicit Runge-Kutta methods and their use in parameter optimization. (English summary) **2005k:65128**
Gómez, Soraya (*with* Lancho Romero, Arturo; Todorov, Maxim Ivanov) Some stability properties in the convex parametric semi-infinite optimization. (English summary) **2005k:90181**
Goudarzi, P. (*with* Sheikholeslam, F.; Saidi, H.) Stability analysis of a second-order proportionally-fair rate allocation algorithm. (English summary) **2005m:90143**
Greenberg, Harvey J. *see* **Wiback, Sharon J. et al.**
Guddat, Jürgen *see* **Parametric optimization and related topics. VII, 2005h:90008** *and* **Allende Alonso, Sira M. et al., 2005i:90079**
Guerra Vázquez, Francisco (*with* Orozco, José A.; Rückmann, Jan-J.) On constraint qualifications in semi-infinite optimization. (English summary) **2005k:90165**
Gupta, Pankaj[1] *see* **Singh, Sanjeet et al., 2005d:90123**

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problems. (English summary) **2005i:49029**
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Husain, Iqbal (*with* Jabeen, Z.) Second order duality for fractional programming with support functions. (English summary)
— (*with* Hanson, Morgan A.; Jabeen, Z.) On nondifferentiable fractional minimax programming. (English summary) **2005e:90135**
— (*with* Jabeen, Z.) On fractional programming containing support functions. (English summary) **2005k:90166**
Jabeen, Z. *see* **Husain, Iqbal et al., 2005e:90135** *and* **2005k:90166**
Jain, Sanjay (*with* Mangal, Adarsh) Solution of a generalized fractional programming problem. (English summary)
Jeflea, Antoneta A parametric study for solving nonlinear fractional problems.
Konno, Hiroshi *see* **Hoàng Tụy et al., 2005c:90096**
Kumar, Narender (*with* Budhraja, R. K.; Mehra, Aparna) Approximate efficiency for n-set multiobjective fractional programming. (English summary) **2005f:90130**
Lai, Hang-Chin *see* **Lee, Jin Chirng, 2005k:90167**
Lee, Jin Chirng (*with* Lai, Hang-Chin) Parameter-free dual models for fractional programming with generalized invexity. (English summary) **2005k:90167**
Mangal, Adarsh *see* **Jain, Sanjay**
Martein, Laura *see* **Cambini, Alberto et al., 2005g:90148**
Mehra, Aparna *see* **Kumar, Narender et al., 2005f:90130**
Niculescu, Cristian Optimality conditions and duality for multiobjective fractional programming problems involving ρ-arcwise connected functions. (English summary) **2005b:90140**
Orozco, José A. *see* **Guerra Vázquez, Francisco et al., 2005k:90165**
Patel, R. B. Optimality and duality for minimax fractional programming involving $(F-\rho)$-B-vex functions. (English summary) **2005b:90141**
Pearce, Charles E. M. Quasiconvexity, fractional programming and extremal traffic congestion. (English summary) **2005b:90142**
Phan Thiên Thạch *see* **Hoàng Tụy et al., 2005c:90096**
Pop, Bogdana Algorithm to solving multiple criteria linear fractional optimization. (English summary)
— *see also* **Stancu-Minasian, Ioan M., 2005e:90136**
Rückmann, Jan-J. *see* **Guerra Vázquez, Francisco et al., 2005k:90165**
Schaible, Siegfried *see* **Cambini, Alberto et al., 2005g:90148** *and* **Cambini, Riccardo et al., 2005g:90149**
Sharma, Kailash Chandra *see* **Bhargava, Shifali**
Singh, Sanjeet (*with* Gupta, Pankaj[1]; Bhatia, Davinder) Multiparametric sensitivity analysis in programming problem with linear-plus-linear fractional objective function. (English summary) **2005d:90123**
Stancu-Minasian, Ioan M. (*with* Pop, Bogdana) A parametric method for solving linear fractional programming problems with flexible constraints. (English summary) **2005e:90136**
— Duality for nonlinear fractional programming involving generalized locally arcwise connected functions. (English summary) **2005f:90131**
Stein, Oliver (*with* Still, Georg) Solving semi-infinite optimization problems with interior point techniques. (English summary) **2005e:90137**
Still, Georg *see* **Stein, Oliver, 2005e:90137**
Ţigan, Ştefan On the White's algorithm for fractional programming. (English summary) **2005d:90124**
Wang, Xing Guo Optimality conditions for generalized fractional programming with (p,r)-invexity. (Chinese. English and Chinese summaries)
Wang, Yan Jun (*with* Zhang, Ke Cun) Global optimization of nonlinear sum of ratios problem. (English summary)
Yang, Xin Min (*with* Hou, Shui Hung) On minimax fractional optimality and duality with generalized convexity. (English summary) **2005m:90129**
Zalmai, G. J. Optimality conditions and duality models for minmax fractional subset programming problems with generalized $(\mathscr{F},\alpha,\rho,\theta)$-$V$-convex functions. (English summary) **2005d:90125**
Zhang, Ke Cun *see* **Wang, Yan Jun**

Items with secondary classifications in 90C32

Ammar, E. E. *see* **Hassian, M. L. et al., 2005f:90176**
(Arora, Savita) *see* **Calvete Fernández, Herminia Inmaculada**
Arslan, Abdullah N. (*with* Eğecioğlu, Ömer) Dynamic programming based approximation algorithms for sequence alignment with constraints. (English summary) **2005g:90160**
Audet, Charles (*with* Carrizosa, Emilio; Hansen, Pierre) An exact method for fractional goal programming. (English summary) **2005d:90102**
Belkeziz, K. (*with* Metrane, A.) Optimisation d'une fonction linéaire sur l'ensemble des solutions efficaces d'un problème multicritère quadratique convexe. (French summary) [Optimization of a linear function on the set of efficient solutions of a multicriterion convex quadratic problem] **2005f:90102**
(Benoist, J.) *see* **Nguyen Quang Huy, 2005i:90061**
Bomze, Immanuel M. Optimization of functions with rank-two variation over a box. (English summary) **2005g:90136**
Calvete Fernández, Herminia Inmaculada (*with* Galé, Carmen) Note on: "Optimality conditions for linear fractional bilevel programs" [Indian J. Pure Appl. Math. **30** (1999), no. 4, 373–384; MR1695689] by N. Malhotra and S. R. Arora. (English summary)
Cambini, Riccardo (*with* Carosi, Laura) On generalized linearity of quadratic fractional functions. (English summary) **2005i:90047**
Carosi, Laura *see* **Cambini, Riccardo, 2005i:90047**
Carrizosa, Emilio *see* **Audet, Charles et al., 2005d:90102**
Charles, V. (*with* Dutta, Debashis) A method for solving linear stochastic fractional programming problem with mixed constraints. (English summary)
Chen, Youhua Frank Fractional programming approach to two stochastic inventory problems. (English summary)
Dumitrescu, Silviu *see* **Pop, Bogdana, 2005a:90204**
Dutta, Debashis *see* **Charles, V.**
Eğecioğlu, Ömer *see* **Arslan, Abdullah N., 2005g:90160**
Frenk, Johannes B. G. (*with* Schaible, Siegfried) Fractional programming. (English summary) (*see* **2005i:90003**)
Galé, Carmen *see* **Calvete Fernández, Herminia Inmaculada**
Guarino Lo Bianco, Corrado (*with* Piazzi, Aurelio) Using semi-infinite optimization for the steering of car-like vehicles. (English summary) (*see* **2005h:90008**)
Hansen, Pierre *see* **Audet, Charles et al., 2005d:90102**
Hassian, M. L. (*with* Khalifa, H. A.; Ammar, E. E.) A parametric approach for solving the multicriteria linear fractional programming problem. (English summary) **2005f:90176**
Ho, C. Y. F. (*with* Ling, Bingo Wing-Kuen; Liu, Yan Qun; Tam, Peter Kwong-Shun; Teo, Kok Lay) Design of nonuniform near allpass complementary FIR filters via a semi-infinite programming technique. (English summary)
Jeyakumar, V. (*with* Lee, Gue Myung; Nguyen Dinh) Lagrange multiplier conditions characterizing the optimal solution sets of cone-constrained convex programs. (English summary) **2005i:90044**
Khalifa, H. A. *see* **Hassian, M. L. et al., 2005f:90176**
Khurana, Seema *see* **Lalitha, C. S. et al., 2005h:90119**
Kishore, Newal (*with* Singh, Vibha) Duality in multi-objective fractional programming involving generalized type-I invexity. (English summary) **2005e:90110**
Lalitha, C. S. (*with* Suneja, S. K.; Khurana, Seema) Symmetric duality involving invexity in multiobjective fractional programming. (English summary) **2005h:90119**
Lee, Gue Myung *see* **Jeyakumar, V. et al., 2005i:90044**
Ling, Bingo Wing-Kuen *see* **Ho, C. Y. F. et al.**
Liu, Yan Qun *see* **Ho, C. Y. F. et al.**
Long, Xian-Jun *see* **Peng, Jianwen, 2005g:90106**
(Malhotra, Neelam) *see* **Calvete Fernández, Herminia Inmaculada**
Metrane, A. *see* **Belkeziz, K., 2005f:90102**
Nguyen Dinh *see* **Jeyakumar, V. et al., 2005i:90044**
Nguyễn Đông Yên *see* **Nguyen Quang Huy, 2005i:90061**
Nguyen Quang Huy (*with* Nguyễn Đông Yên) Remarks on a conjecture of J. Benoist. (English summary) **2005i:90061**
Palocsay, Susan W. *see* **Skiścim, Christopher C., 2005i:90054**
Peng, Jianwen (*with* Long, Xian-Jun) A remark on preinvex functions. **2005g:90106**
Piazzi, Aurelio *see* **Guarino Lo Bianco, Corrado, (2005h:90008)**
Polak, Elijah (*with* Royset, J. O.) Algorithms for finite and semi-infinite min-max-min problems using adaptive smoothing techniques. (English summary) **2005a:90182a**
— (*with* Royset, J. O.; Womersley, Robert S.) Algorithms with adaptive smoothing for finite minimax problems. (English summary) **2005a:90182b**
Pop, Bogdana (*with* Dumitrescu, Silviu) Fuzzy control rules in linear fractional programming problems. (English and Romanian summaries) **2005a:90204**
Royset, J. O. *see* **Polak, Elijah et al., 2005a:90182a** *and* **2005a:90182b**
Schaible, Siegfried *see* **Frenk, Johannes B. G., (2005i:90003)**
Singh, Vibha *see* **Kishore, Newal, 2005e:90110**
Skiścim, Christopher C. (*with* Palocsay, Susan W.) The complexity of minimum ratio spanning tree problems. (English summary) **2005i:90054**
Still, Georg Approximation and optimization: classical results and new developments. (English summary) **2005i:90002**
Suneja, S. K. *see* **Lalitha, C. S. et al., 2005h:90119**
Tam, Peter Kwong-Shun *see* **Ho, C. Y. F. et al.**
Teo, Kok Lay *see* **Ho, C. Y. F. et al.**
Womersley, Robert S. *see* **Polak, Elijah et al., 2005a:90182b**
Zalmai, G. J. Proper efficiency conditions and duality models for a class of nonsmooth continuous-time multiobjective fractional programming problems. (English summary) **2005a:90147**
— Optimality conditions and duality models for minmax fractional optimal control problems containing arbitrary norms. (English summary) **2005b:49011**

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Achache, Mohamed A numerical implementation of an infeasible interior point algorithm for linear complementarity problems. (English summary) **2005a:90158**
Alefeld, Götz (*with* Wang, Zheng Yu[2]; Shen, Zu He) Enclosing solutions of linear complementarity problems for H-matrices. (English summary) **2005g:90150**
Allende Alonso, Sira M. (*with* Guddat, Jürgen; Nowack, Dieter) A modified standard embedding for linear complementarity problems. (English summary) **2005i:90079**
Antipin, A. S. (*with* Budak, B. A.; Vasil'ev, F. P.) A regularized continuous extragradient method of the first order with a variable metric for solving problems of equilibrium programming. (Russian. Russian summary) **2005d:90126**
Bhatia, Davinder *see* **Gupta, Pankaj[1] et al., 2005k:90172**
Birbil, Ş. İlker (*with* Fang, Shu-Cherng; Han, Ji Ye) An entropic regularization approach for mathematical programs with equilibrium constraints. (English summary) **2005f:90132**
Biswal, M. P. *see* **Chakraborty, Bidushi et al.**

Budak, B. A. A first-order continuous linearization method with a variable metric for solving equilibrium programming problems. (Russian. Russian summary) **2005k:90168**
— *see also* **Antipin, A. S. et al., 2005d:90126**
Chakraborty, Bidushi (*with* Nanda, Sudarsan; Biswal, M. P.) On the solution of parametric linear complementarity problems. (English summary)
Chen, Guo Qing *see* **Wu, Li Ji, 2005i:90082** *and* **2005k:90176**
Chen, Jian *see* **Zhang, Ju-Liang et al., 2005e:90145**
Chen, Xiao Jun[1] (*with* Fukushima, Masao) A smoothing method for a mathematical program with P-matrix linear complementarity constraints. (English summary) **2005a:90159**
Cvetković, Ljiljana (*with* Rapajić, Sanja) How to improve MAOR method convergence area for linear complementarity problems. (English summary)
Dar'ina, A. N. (*with* Izmailov, Alekseĭ Feridovich) On the identification of active indices in mixed complementarity problems. (Russian. Russian summary) **2005k:90169**
— (*with* Izmailov, Alekseĭ Feridovich; Solodov, Mikhail) Mixed complementarity problems: regularity, estimates for the distance to a solution, and Newton methods. (Russian. Russian summary) **2005d:90127**
Das, Arup Kumar *see* **Mohan, Srinivasa Raghavan et al., 2005a:90162**
Da Silva, G. J. P. (*with* Oliveira, P. R.) A new class of proximal algorithms for the nonlinear complementarity problem. (English summary) (*see* **2005m:90002**)
Denault, Michel (*with* Goffin, Jean-Louis) Solving variational inequalities with a quadratic cut method: a primal-dual, Jacobian-free approach. (English summary) **2005b:90143**
Ding, Ti Ming (*with* Xu, Maoliang) An existence theorem for strongly nonlinear implicit complementarity problems. (English summary)
Ding, Xie Ping *see* **Fang, Chang Jie et al.**
Dong, Junliang *see* **Jiang, Meiqun, 2005m:90131**
Dong, Ning *see* **Mo, Hao Yi et al., 2005k:90174**
Du, Li Li[1] Neural networks for solving generalized nonlinear complementarity problems. (Chinese. English and Chinese summaries)
Fan, Jin-yan *see* **Nie, Pu Yan**
Fang, Chang Jie (*with* Zheng, Lian; Ding, Xie Ping) Predictor-corrector iterative algorithms for solving generalized mixed variational-like inequalities. (Chinese. English and Chinese summaries)
Fang, Shu-Cherng *see* **Birbil, Ş. İlker et al., 2005f:90132**
Fang, Ya Ping (*with* Huang, Nan Jing) On least element problems for feasible sets in vector complementarity problems. (English summary) **2005h:90139**
— (*with* Huang, Nan Jing) A characterization of an acceptable solution of the extended nonlinear complementarity problem. (English summary) **2005c:90097**
— *see also* **Huang, Nan Jing, 2005m:90130**
Flegel, M. L. (*with* Kanzow, Christian) Abadie-type constraint qualification for mathematical programs with equilibrium constraints. (English summary) **2005k:90170**
Flores-Bazán, Fabián (*with* López, Ruben) The linear complementarity problem under asymptotic analysis. (English summary) **2005k:90171**
Fukushima, Masao *see* **Chen, Xiao Jun[1], 2005a:90159**; **Hayashi, Shunsuke et al., 2005h:90140** *and* **Lin, Gui-Hua, 2005i:90080**
Gao, Xing Bao *see* **Mo, Hao Yi et al., 2005k:90174**
Gao, Zi You (*with* Ren, Hua Ling; He, Guo Ping) A new algorithm without strict complementary slackness for sequential systems of linear equations. (Chinese. English and Chinese summaries) **2005d:90128**
Goffin, Jean-Louis *see* **Denault, Michel, 2005b:90143**
Guddat, Jürgen *see* **Allende Alonso, Sira M. et al., 2005i:90079**
Guo, Wei Ping Complementarity problems for multivalued monotone operator in Banach spaces. (English summary) **2005a:90160**
Gupta, Pankaj[1] (*with* Vlach, Milan; Bhatia, Davinder) Fuzzy approximation to an infeasible generalized linear complementarity problem. (English summary) **2005k:90172**
Han, Deren (*with* Sun, Wen Yu) A new modified Goldstein-Levitin-Polyak projection method for variational inequality problems. (English summary) **2005e:90138**
— A truly globally convergent feasible Newton-type method for mixed complementarity problems. (English summary) **2005f:90133**
Han, Ji Ye *see* **Birbil, Ş. İlker et al., 2005f:90132** *and* **Huang, Zheng Hai et al., 2005f:90134**
Hayashi, Shunsuke (*with* Yamaguchi, Takahiro; Yamashita, Nobuo; Fukushima, Masao) A matrix-splitting method for symmetric affine second-order cone complementarity problems. (English summary) **2005h:90140**
He, Bing-sheng *see* **Yang, Zhen-hua, 2005j:90085**
He, Guo Ping *see* **Gao, Zi You et al., 2005d:90128**
Hu, Xinmin On the convergence of general regularization and smoothing schemes for mathematical programs with complementarity constraints. (English summary) **2005a:90161**
Huang, Nan Jing (*with* Li, Jun[9]) F-implicit complementarity problems in Banach spaces. (English summary) **2005e:90139**
— (*with* Fang, Ya Ping) Strong vector F-complementary problem and least element problem of feasible set. (English summary) **2005m:90130**
— *see also* **Fang, Ya Ping, 2005c:90097** *and* **2005h:90139**
Huang, Zheng Hai (*with* Zhang, Li Ping[1]; Han, Ji Ye) A hybrid smoothing-nonsmooth Newton-type algorithm yielding an exact solution of the P_0-LCP. (English summary) **2005f:90134**
— Locating a maximally complementary solution of the monotone NCP by using non-interior-point smoothing algorithms. (English summary) **2005k:90173**
Humes, Carlos, Jr. *see* **Queiroz, Marcelo et al., 2005c:90099**
Huynh The Phung A geometrical approach to the linear complementarity problem. (English summary) **2005f:90135**
Izmailov, Alekseĭ Feridovich *see* **Dar'ina, A. N. et al., 2005d:90127** *and* **2005k:90169**
Jiang, Meiqun (*with* Dong, Junliang) On convergence of two-stage splitting methods for linear complementarity problems. (English summary) **2005m:90131**
Jiang, Ying-Jun (*with* Li, Dong Hui[1]; Zeng, Jin-Ping) Weighted max-norm estimate of additive Schwarz methods for solving nonlinear complementarity problems. (English summary) **2005b:90144**
Júdice, Joaquim *see* **Queiroz, Marcelo et al., 2005c:90099**
Kang, Shin Min *see* **Liu, Ze Qing et al., 2005j:90083**
Kanzow, Christian Inexact semismooth Newton methods for large-scale complementarity problems. (English summary) **2005f:90136**
— (*with* Petra, Stefania) On a semismooth least squares formulation of complementarity problems with gap reduction. (English summary) **2005e:90140**
— *see also* **Flegel, M. L., 2005k:90170**
Kočvara, Michal (*with* Outrata, Jiří V.) Optimization problems with equilibrium constraints and their numerical solution. (English summary) **2005c:90098**
Konnov, Igor V. (*with* Selezneva, T. A.) Variational inequalities with two-sided constraints. (Russian) **2005f:90137**
— (*with* Pinyagina, O. V.) The method of descent over an interval function for nonsmooth equilibrium problems. (Russian) **2005e:90141**
Kostreva, Michael M. (*with* Yang, Xiao Qi) Unified approaches for solvable and unsolvable linear complementarity problems. (English summary) **2005e:90142**
Li, Dong Hui[1] *see* **Jiang, Ying-Jun et al., 2005b:90144**
Li, Fei Sensitivity analysis for parameterized variational inequality problems. (English summary)
Li, Jun[9] *see* **Huang, Nan Jing, 2005e:90139**
Li, Yu Zeng *see* **Wang, Xian et al.**
Liang, Guo Ping *see* **Ma, Chang Feng**
Lin, Gui-Hua (*with* Fukushima, Masao) A modified relaxation scheme for mathematical programs with complementarity constraints. (English summary) **2005i:90080**
Liu, Guo Xin (*with* Yu, Bo) Homotopy continuation method for linear complementarity problems. (English summary) **2005f:90138**
Liu, Xinwei (*with* Sun, Jie) Generalized stationary points and an interior-point method for mathematical programs with equilibrium constraints. (English summary) **2005e:90143**
Liu, Ze Qing (*with* Ume, Jeong Sheok; Kang, Shin Min) Stability of Noor iterations with errors for generalized nonlinear complementarity problems. (English summary) **2005j:90083**
— (*with* Ume, Jeong Sheok; Kang, Shin Min) On generalized nonlinear quasicomplementarity problems. (English summary)
López, Ruben *see* **Flores-Bazán, Fabián, 2005k:90171**
Ma, Chang Feng (*with* Liang, Guo Ping) A smoothing approximation method for mixed complementarity problems. (Chinese. English and Chinese summaries)
— A smoothing Broyden-like method for the mixed complementarity problems. (English summary) **2005m:90132**
Magnanti, Thomas L. (*with* Perakis, Georgia) Solving variational inequality and fixed point problems by line searches and potential optimization. (English summary) **2005g:90151**
Mo, Hao Yi (*with* Dong, Ning; Gao, Xing Bao) A gradient-based neural network for horizontal linear complementarity problems. (Chinese. English and Chinese summaries) **2005k:90174**
Mohan, Srinivasa Raghavan (*with* Neogy, S. K.; Das, Arup Kumar) A note on linear complementarity problems and multiple objective programming. (English summary) **2005a:90162**
Mordukhovich, Boris S. Equilibrium problems with equilibrium constraints via multiobjective optimization. (English summary) **2005i:90081**
Nanda, Sudarsan (*with* Pani, S.) A note on complementarity problem in Banach space. (English summary) **2005f:90139**
— Remark: "On a complementarity problem in Banach space" [Proc. Amer. Math. Soc. **121** (1994), no. 4, 1203–1205; MR1216822 (94j:47083)]. **2005g:90152**
— *see also* **Chakraborty, Bidushi et al.**
Neogy, S. K. *see* **Mohan, Srinivasa Raghavan et al., 2005a:90162**
Nguyen Van Thoai (*with* Yamamoto, Yoshitsugu; Yoshise, A.) Global optimization method for solving mathematical programs with linear complementarity constraints. (English summary) **2005k:90175**
Nie, Pu Yan (*with* Fan, Jin-yan) A derivative-free filter method for solving nonlinear complementarity problems. (English summary)
Nowack, Dieter *see* **Allende Alonso, Sira M. et al., 2005i:90079**
Oliveira, P. R. *see* **Da Silva, G. J. P., (2005m:90002)**
Outrata, Jiří V. *see* **Kočvara, Michal, 2005c:90098**
Pani, S. *see* **Nanda, Sudarsan, 2005f:90139**
Peng, Jianwen (*with* Yang, Xin Min) On multivalued complementarity problems in Banach spaces. (English summary) **2005m:90133**
Perakis, Georgia *see* **Magnanti, Thomas L., 2005g:90151**
Petra, Stefania *see* **Kanzow, Christian, 2005e:90140**
Pinyagina, O. V. *see* **Konnov, Igor V., 2005e:90141**
Potra, Florian A. A superlinearly convergent predictor-corrector method for degenerate LCP in a wide neighborhood of the central path with $O(\sqrt{n}L)$-iteration complexity. (English summary) **2005e:90144**
Qi, Liqun *see* **Yang, Yu-Fei, 2005h:90141**
Qu, Biao *see* **Wang, Chang Yu, 2005g:90153**
Queiroz, Marcelo (*with* Júdice, Joaquim; Humes, Carlos, Jr.) The symmetric eigenvalue complementarity problem. (English summary) **2005c:90099**
Rapajić, Sanja *see* **Cvetković, Ljiljana**
Ren, Hua Ling *see* **Gao, Zi You et al., 2005d:90128**
Schäfer, Uwe[2] A linear complementarity problem with a P-matrix. (English summary) **2005j:90084**
Schumacher, J. M. Complementarity systems in optimization. (English summary) **2005c:90100**
Selezneva, T. A. *see* **Konnov, Igor V., 2005f:90137**
Shen, Zu He *see* **Alefeld, Götz et al., 2005g:90150**
Solodov, Mikhail *see* **Dar'ina, A. N. et al., 2005d:90127**
Sun, Jie *see* **Liu, Xinwei, 2005e:90143**
Sun, Wen Yu *see* **Han, Deren, 2005e:90138**
Ume, Jeong Sheok *see* **Liu, Ze Qing et al., 2005j:90083**
Vasil'ev, F. P. *see* **Antipin, A. S. et al., 2005d:90126**
Vlach, Milan *see* **Gupta, Pankaj[1] et al., 2005k:90172**
Wan, Zhong (*with* Zhou, Shu Zi) On the feasibility of mathematical programs with nonlinear complementarity constraints. (Chinese. English and Chinese summaries) **2005c:90101**
Wang, Chang Yu (*with* Qu, Biao) Global convergence of Gauss-Newton methods for

complementarity problem. (English and Chinese summaries) **2005g:90153**
— *see also* **Yu, Zhen Sheng, 2005a:90163** *and* **Wang, Yiju et al., 2005c:90102**
Wang, Xian (*with* Li, Yu Zeng; Zhang, Shao Hua) Application of nonlinear complementarity methods to equilibrium analysis of electricity markets. (Chinese. English and Chinese summaries)
Wang, Yiju (*with* Zhou, Houchun; Wang, Chang Yu) A regularization Newton method for mixed complementarity problems. (English summary) **2005c:90102**
Wang, Zheng Yu[2] *see* **Alefeld, Götz et al., 2005g:90150**
Wu, Li Ji (*with* Chen, Guo Qing) A new smooth merit function for nonlinear complementarity problems and a Newton-type method. (Chinese. English summary) **2005i:90082**
— (*with* Chen, Guo Qing) A new multiplier method for solving linear complementarity problems. (Chinese. English summary) **2005k:90176**
— (*with* Chen, Guo Qing) A new parameterized merit function for linear complementarity problems and a damped Newton method. (Chinese. English and Chinese summaries)
Wu, Soon-Yi *see* **Wu, Zi Li[2], 2005m:90134**
Wu, Zi Li[2] (*with* Wu, Soon-Yi) Weak sharp solutions of variational inequalities in Hilbert spaces. (English summary) **2005m:90134**
Xu, Bi Huan Solving transportation problems by a projection and contraction method of Levenberg-Marquardt type. (Chinese. English summary) **2005k:90177**
Xu, Maoliang *see* **Ding, Ti Ming**
Yamaguchi, Takahiro *see* **Hayashi, Shunsuke et al., 2005h:90140**
Yamamoto, Yoshitsugu *see* **Nguyen Van Thoai et al., 2005k:90175**
Yamashita, Nobuo *see* **Hayashi, Shunsuke et al., 2005h:90140**
Yang, Xiao Qi *see* **Kostreva, Michael M., 2005e:90142**
Yang, Xin Min *see* **Peng, Jianwen, 2005m:90133**
Yang, Yu-Fei (*with* Qi, Liqun) Smoothing trust region methods for nonlinear complementarity problems with P_0-functions. (English summary) **2005h:90141**
Yang, Zhen-hua (*with* He, Bing-sheng) A relaxed approximate proximal point algorithm. (English summary) **2005j:90085**
Yin, Hong Xia An iterative method for general variational inequalities. (English summary) **2005k:90178**
Yoshise, A. *see* **Nguyen Van Thoai et al., 2005k:90175**
Yu, Bo *see* **Liu, Guo Xin, 2005f:90138**
Yu, Zhen Sheng (*with* Wang, Chang Yu) Compactification reformulation of semi-definite complementarity problems. (Chinese. English and Chinese summaries) **2005a:90163**
Zeng, Jin-Ping *see* **Jiang, Ying-Jun et al., 2005b:90144**
Zhang, Ju-Liang (*with* Chen, Jian; Zhuo, Xin-jian) A constrained optimization approach for LCP. (English summary) **2005e:90145**
Zhang, Li Ping[1] *see* **Huang, Zheng Hai et al., 2005f:90134**
Zhang, Ming Wang A higher-order Dikin type affine scaling algorithm for a class of nonmonotonic linear complementary problems. (Chinese. English and Chinese summaries)
Zhang, Shao Hua *see* **Wang, Xian et al.**
Zheng, Lian *see* **Fang, Chang Jie et al.**
Zhou, Houchun *see* **Wang, Yiju et al., 2005c:90102**
Zhou, Shu Zi *see* **Wan, Zhong, 2005c:90101**
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Items with secondary classifications in 90C33

Al-Khaled, Kamel *see* **Noor, Muhammad Aslam et al., 2005d:49015**
Al-Shemas, Eman (*with* Billups, Stephen C.) An iterative method for generalized set-valued nonlinear mixed quasi-variational inequalities. (English summary) **2005f:49012**
Anitescu, Mihai (*with* Hart, Gary D.) A fixed-point iteration approach for multibody dynamics with contact and small friction. (English summary) **2005e:70008**
Arutyunov, Aram V. (*with* Izmailov, Alekseĭ Feridovich) Sensitivity analysis for abnormal optimization problems with a cone constraint. (Russian. Russian summary) **2005f:90127**
— (*with* Izmailov, Alekseĭ Feridovich) Sensitivity analysis for cone-constrained optimization problems under the relaxed constraint qualifications. (English summary) **2005m:90123**
Avramescu, Cezar *see* **Isac, George, 2005j:47069**
Bătătorescu, Anton (*with* Beldiman, Miruna) On a class of generalized pre-variational inequalities. (English summary) **2005f:49015**
Beldiman, Miruna *see* **Bătătorescu, Anton, 2005f:49015**
Bianchi, Monica (*with* Schaible, Siegfried) Equilibrium problems under generalized convexity and generalized monotonicity. (English summary) **2005m:90153**
Billups, Stephen C. *see* **Al-Shemas, Eman, 2005f:49012**
Bomze, Immanuel M. *see* **Locatelli, Marco et al., 2005f:90144**
Braun, Stephen (*with* Mitchell, John E.) A semidefinite programming heuristic for quadratic programming problems with complementarity constraints. (English summary) **2005k:90224**
Cardia, Marli *see* **Gonzaga, Clóvis C., 2005c:90044**
Chadli, Ouayl (*with* Schaible, Siegfried; Yao, Jen Chih) Regularized equilibrium problems with application to noncoercive hemivariational inequalities. (English summary) **2005e:90153**
Chen, Jein-Shan (*with* Chen, Xin[5]; Tseng, Paul) Analysis of nonsmooth vector-valued functions associated with second-order cones. (English summary) **2005e:49029**
Chen, Jian *see* **Zhang, Ju-Liang, 2005d:90122**
Chen, Xin[1] (*with* Qi, Houduo; Qi, Liqun; Teo, Kok Lay) Smooth convex approximation to the maximum eigenvalue function. (English summary) **2005i:90043**
Chen, Xin[5] *see* **Chen, Jein-Shan et al., 2005e:49029**
Cheng, Hao *see* **Özçam, Burcu, 2005m:90137**
Cheng, Yiping (*with* Zheng, Da-Zhong) Min-max inequalities and the timing verification problem with max and linear constraints. (English summary) **2005k:93128**
Chiang, Yungyen (*with* Yao, Jen Chih) Vector variational inequalities and the $(S)_+$ condition. (English summary) **2005g:49014**
— The $(S)^1_+$ condition for generalized vector variational inequalities. (English summary) **2005m:49016**
Day, Martin V. On the velocity projection map for polyhedral Skorokhod problems. (English summary) **2005m:60207**
Enge, Olaf (*with* Maißer, Peter) Modelling electromechanical systems with electrical switching components using the linear complementarity problem. (English summary) **2005m:70091**
Estévez-Fernández, A. (*with* Fiestras-Janeiro, M. G.) On properties of several refinements of optimal solutions in linear programming. (English summary) **2005m:90059**
Fang, Shu-Cherng (*with* Wu, Soon-Yi; Sun, Jie) An analytic center cutting plane method for solving semi-infinite variational inequality problems. (English summary) **2005b:49020**
— *see also* **Wu, Soon-Yi**
Ferris, Michael C. (*with* Pang, Jong-Shi; Ralph, Daniel; Scholtes, Stefan) Foreword [Complimentarity problems: 40 years on].
— (*with* Munson, Todd S.) Semismooth support vector machines. (English summary) **2005c:90061**
Fiestras-Janeiro, M. G. *see* **Estévez-Fernández, A., 2005m:90059**
Fletcher, Roger (*with* Leyffer, Sven) Solving mathematical programs with complementarity constraints as nonlinear programs. (English summary) **2005a:90149**
Fukushima, Masao *see* **Lin, Gui-Hua, 2005m:90073**
Glocker, Christoph (*with* Studer, Christian) Formulation and preparation for numerical evaluation of linear complementarity systems in dynamics. (English summary) **2005m:70067**
Goeleven, Daniel An expository discussion on singular inequality problems and equilibrium models in economics. (English summary) **2005c:91083**
Gong, Yan De (*with* Zeng, Xue Lan) Conditions of strong rank preservation for adding new elements in fuzzy complementary judgement matrices. (Chinese. English and Chinese summaries)
Gonzaga, Clóvis C. (*with* Cardia, Marli) Properties of the central points in linear programming problems. (English summary) **2005c:90044**
Gowda, M. Seetharama (*with* Sznajder, Roman; Tao, Ji-yuan) Some P-properties for linear transformations on Euclidean Jordan algebras. (English summary) **2005h:17059**
Gu, Ai Ling Exceptional family of elements and an existence theorem for multi-valued variational inequalities. (Chinese. English and Chinese summaries)
Hamdouch, Younes (*with* Marcotte, Patrice; Nguyen, Sang) Capacitated transit assignment with loading priorities. (English summary)
Han, Ji Ye *see* **Zhang, Li Ping[1] et al., 2005k:90161**
Hart, Gary D. *see* **Anitescu, Mihai, 2005e:70008**
He, Bing-sheng (*with* Yuan, Xiao-ming[1]; Zhang, Jian Zhong) Comparison of two kinds of prediction-correction methods for monotone variational inequalities. (English summary) **2005e:49010**
Hearn, Donald W. *see* **Lawphongpanich, Siriphong, 2005e:90019**
Hintermüller, Michael (*with* Ulbrich, Michael) A mesh-independence result for semismooth Newton methods. (English summary) **2005f:65077**
Huang, Xue Xiang *see* **Yang, Xiao Qi, 2005f:90159**
Huang, Zheng Hai Generalization of an existence theorem for variational inequalities. (English summary) **2005a:49010**
— (*with* Qi, Liqun; Sun, De Feng) Sub-quadratic convergence of a smoothing Newton algorithm for the P_0- and monotone LCP. (English summary) **2005k:90215**
— Global Lipschitzian error bounds for semidefinite complementarity problems with emphasis on NCPs. (English summary) **2005h:90089**
— *see also* **Zhang, Li Ping[1] et al., 2005k:90161**
Ikonen, S. (*with* Toivanen, Jari) Operator splitting methods for American option pricing. (English summary) **2005c:65073**
Isac, George (*with* Avramescu, Cezar) Some general solvability theorems. (English summary) **2005j:47069**
— (*with* Li, Jinlu) The convergence property of Ishikawa iteration schemes in noncompact subsets of Hilbert spaces and its applications to complementarity theory. (English summary) **2005b:47127**
Izmailov, Alekseĭ Feridovich *see* **Arutyunov, Aram V., 2005f:90127** *and* **2005m:90123**
Jeong, Jae Ug Generalized set-valued variational inclusions and resolvent equations in Banach spaces. (English summary) **2005c:49020**
Jian, Jin Bao (*with* Mo, Xing-De; Li, Jian Ling[2]) Explicit and implicit continuation algorithms for strongly monotone variational inequalities with box constraints. (English summary) **2005d:49012**
Jin, Mao Ming A new proximal point algorithm with errors for nonlinear variational inclusions involving generalized m-accretive mappings. (English summary) **2005h:49019**
Kadiri, Abderrahim (*with* Yassine, Adnan) Une procédure de purification pour les problèmes de complémentarité linéaire, monotones. (English and French summaries) [A purification method for monotone linear complementarity problems] **2005e:65079**
Kang, Shin Min *see* **Zhao, Yali et al.**
Kanzow, Christian (*with* Nagel, Christian) Corrigendum: "Semidefinite programs: new search directions, smoothing-type methods, and numerical results" [SIAM J. Optim. **13** (2002), no. 1, 1–23; MR1922431 (2003f:90053)]. (English summary) **2005e:90087**
Kazmi, K. R. (*with* Khan, F. A.) An iterative algorithm for implicit complementarity problem in Banach space. (English summary) **2005f:49025**
Khaliq, Abdul (*with* Raouf, Abdul) Existence of solutions for generalized vector variational-like inequalities. (English summary) **2005a:49012**
— (*with* Krishan, Sonam) On generalized implicit vector variational-like inequalities. (English summary) **2005f:49026**
Khan, F. A. *see* **Kazmi, K. R., 2005f:49025**
Konnov, Igor V. A proximal method for nonmonotone variational inequalities. (Russian. Russian summary) **2005g:49018**
Kou, Shu Shun Integer sets method for quadratic programming and decomposable quadratic programming. (Chinese. English and Chinese summaries)
Koulisianis, Minas D. (*with* Papatheodorou, Theodore S.) Valuation of American options using direct, linear complementarity-based methods. (English summary) **2005j:91042**
Krishan, Sonam *see* **Khaliq, Abdul, 2005f:49026**
Lawphongpanich, Siriphong (*with* Hearn, Donald W.) An MPEC approach to second-best toll pricing. (English summary) **2005e:90019**
Lê Dũng Mu'u *see* **Pham Ngoc Anh et al., 2005k:49029**
Lee, Gue Myung (*with* Lee, Kwang Baik) On affine vector variational inequality. (English summary) (*see* **2005b:90008**)
Lee, Kwang Baik *see* **Lee, Gue Myung, (2005b:90008)**

Leyffer, Sven *see* **Fletcher, Roger**, 2005a:90149
Li, Jian Ling[2] *see* **Jian, Jin Bao et al.**, 2005d:49012
Li, Jinlu *see* **Isac, George**, 2005b:47127
Lin, Gui-Hua (*with* Fukushima, Masao) Regularization method for stochastic mathematical programs with complementarity constraints. (English summary) **2005m:90073**
Liu, Guoshan *see* **Zhang, Jian Zhong et al.**, 2005h:90136
Liu, San Yang *see* **Shi, Chao Feng**, 2005h:49047
Liu, Ze Qing *see* **Zhao, Yali et al.**
Locatelli, Marco (*with* Bomze, Immanuel M.; Pelillo, Marcello) The combinatorics of pivoting for the maximum weight clique. (English summary) **2005f:90144**
Luo, Zhi-Quan *see* **Yamashita, Nobuo**, 2005f:91043
Maißer, Peter *see* **Enge, Olaf**, 2005m:70091
Majewski, Kurt Large deviation bounds for single class queueing networks and their calculation. (English summary) **2005h:60079**
Marcotte, Patrice *see* **Hamdouch, Younes et al.**
Mitchell, John E. *see* **Braun, Stephen**, 2005k:90224
Mo, Xing-De *see* **Jian, Jin Bao et al.**, 2005d:49012
Moudafi, Abdellatif (*with* Noor, Muhammad Aslam) Convergence of iterative schemes for multivalued quasi-variational inclusions. (English summary) **2005a:49014**
Munson, Todd S. *see* **Ferris, Michael C.**, 2005c:90061
Nagel, Christian *see* **Kanzow, Christian**, 2005e:90087
Nguyen, Sang *see* **Hamdouch, Younes et al.**
Nguyen, Van Hien *see* **Tran Thi Hue et al.**, 2005b:49031; **Salmon, Geneviève et al.**, 2005e:49020 *and* **Pham Ngoc Anh et al.**, 2005k:49029
Nie, Pu Yan A three-dimension null-space approach for mathematical programs with equilibrium constraints. (English summary) **2005b:90162**
Noor, Khalida Inayat *see* **Noor, Muhammad Aslam et al.**, 2005b:49026; 2005d:49015 *and* 2005d:49016
Noor, Muhammad Aslam (*with* Noor, Khalida Inayat) Self-adaptive projection algorithms for general variational inequalities. (English summary) **2005b:49026**
— (*with* Noor, Khalida Inayat; Al-Khaled, Kamel) Predictor-corrector methods for general mixed quasi variational inequalities. (English summary) **2005d:49015**
— (*with* Noor, Khalida Inayat) On equilibrium problems. (English summary) **2005d:49016**
— Multivalued equilibrium problems with trifunction. (English summary) **2005b:49027**
— Hemivariational inequalities. (English summary) **2005h:49024**
— Hemivariational-like inequalities. (English summary)
— *see also* **Moudafi, Abdellatif**, 2005a:49014
Özçam, Burcu (*with* Cheng, Hao) A discretization based smoothing method for solving semi-infinite variational inequalities. (English summary) **2005m:90137**
Pang, Jong-Shi *see* **Ferris, Michael C. et al.**
Papatheodorou, Theodore S. *see* **Koulisianis, Minas D.**, 2005j:91042
Pelillo, Marcello *see* **Locatelli, Marco et al.**, 2005f:90144
Pham Ngoc Anh (*with* Lê Dũng Mu'u; Nguyen, Van Hien; Strodiot, Jean-Jacques) Using the Banach contraction principle to implement the proximal point method for multivalued monotone variational inequalities. (English summary) **2005k:49029**
Pini, Rita *see* **Singh, Chanchal**, 2005a:47148
Popescu, Elena Use of the interior-point method for correcting and solving inconsistent linear inequality systems. (English summary)
Popov, L. D. Lexicographic variational inequalities and some applications. (English summary) **2005d:49018**
— On schemes for the formation of a master sequence in a regularized extragradient method for solving variational inequalities. (Russian) **2005a:49016**
Potra, Florian A. The Kantorovich Theorem and interior point methods. (English summary) **2005j:90099**
Preiß, Martin (*with* Stoer, Josef) Analysis of infeasible-interior-point paths and high-order methods for solving SDLCP's. (English summary) **2005i:90098**
— (*with* Stoer, Josef) Analysis of infeasible-interior-point paths arising with semidefinite linear complementarity problems. (English summary) **2005a:90188**
Qi, Houduo (*with* Yang, Xiao Qi) Semismoothness of spectral functions. (English summary) **2005b:49040**
— (*with* Qi, Liqun; Sun, De Feng) Solving Karush-Kuhn-Tucker systems via the trust region and the conjugate gradient methods. (English summary) **2005a:90152**
— *see also* **Chen, Xin**[1] **et al.**, 2005i:90043
Qi, Liqun *see* **Qi, Houduo et al.**, 2005a:90152; **Sun, Jie et al.**, 2005g:90098; **Chen, Xin**[1] **et al.**, 2005i:90043 *and* **Huang, Zheng Hai et al.**, 2005k:90215
Ralph, Daniel (*with* Wright, Stephen Joseph) Some properties of regularization and penalization schemes for MPECs. (English summary) **2005g:90140**
— *see also* **Ferris, Michael C. et al.**
Raouf, Abdul *see* **Khaliq, Abdul**, 2005a:49012
Robinson, Stephen M. Localized normal maps and the stability of variational conditions. (English summary) **2005f:90128**
Salmon, Geneviève (*with* Strodiot, Jean-Jacques; Nguyen, Van Hien) A bundle method for solving variational inequalities. (English summary) **2005e:49020**
Schäfer, Uwe[2] A new subclass of P-matrices. (English summary) **2005m:15062**
Schaible, Siegfried *see* **Chadli, Ouayl et al.**, 2005e:90153 *and* **Bianchi, Monica**, 2005m:90153
Scholtes, Stefan *see* **Ferris, Michael C. et al.**
Shi, Chao Feng (*with* Liu, San Yang) Set-valued variational inclusions in convex metric spaces. (English summary) **2005h:49047**
Singh, Chanchal (*with* Pini, Rita) G-monotonicity and G-convexity. (English summary) **2005a:47148**
Stoer, Josef *see* **Preiß, Martin**, 2005a:90188 *and* 2005i:90098
Strodiot, Jean-Jacques *see* **Tran Thi Hue et al.**, 2005b:49031; **Salmon, Geneviève et al.**, 2005e:49020 *and* **Pham Ngoc Anh et al.**, 2005k:49029
Studer, Christian *see* **Glocker, Christoph**, 2005m:70067
Sun, De Feng *see* **Zhou, Guang Lu et al.**, 2005a:65060; **Qi, Houduo et al.**, 2005a:90152; **Sun, Jie et al.**, 2005g:90098 *and* **Huang, Zheng Hai et al.**, 2005k:90215
Sun, Jie (*with* Sun, De Feng; Qi, Liqun) A squared smoothing Newton method for nonsmooth matrix equations and its applications in semidefinite optimization problems. (English summary) **2005g:90098**
— *see also* **Fang, Shu-Cherng et al.**, 2005b:49020
Sznajder, Roman *see* **Gowda, M. Seetharama et al.**, 2005h:17059
Tao, Ji-yuan *see* **Gowda, M. Seetharama et al.**, 2005h:17059
Teo, Kok Lay *see* **Yang, Xin Min et al.**, 2005b:90120 *and* **Chen, Xin**[1] **et al.**, 2005i:90043
Toh, Kim-Chuan *see* **Zhou, Guang Lu et al.**, 2005a:65060
Toivanen, Jari *see* **Ikonen, S.**, 2005c:65073
Tran Thi Hue (*with* Strodiot, Jean-Jacques; Nguyen, Van Hien) Convergence of the approximate auxiliary problem method for solving generalized variational inequalities. (English summary) **2005b:49031**
Tseng, Paul *see* **Chen, Jein-Shan et al.**, 2005e:49029
Ulbrich, Michael *see* **Hintermüller, Michael**, 2005f:65077
Wang, Shou Yang *see* **Zhang, Jian Zhong et al.**, 2005h:90136
Wang, Yiju *see* **Xiu, Naihua et al.**, 2005b:47139
Wang, Zhi Hua The convergence of inexact proximal point algorithm for monotone variational inequalities. (Chinese. English summary) **2005k:90214**
Weiner, Scott M. Should stochastic volatility matter to the cost-constrained investor? (English summary) **2005e:91095**
Wieczorek, Andrzej Large games with only small players and finite strategy sets. (English summary) **2005f:91011**
Wright, Stephen Joseph *see* **Ralph, Daniel**, 2005g:90140
Wu, Soon-Yi (*with* Fang, Shu-Cherng) Foreword [Special Issue on the International Conference on Optimization and Optimal Control (ICOOC)].
— *see also* **Fang, Shu-Cherng et al.**, 2005b:49020
Wu, Yunan Continuity for vector optimization problems with equilibrium constraints. (English summary) **2005d:90112**
Xia, Zun Quan *see* **Zhao, Yali et al.**
Xiu, Naihua (*with* Wang, Yiju; Zhang, Xiang Sun) Modified fixed-point equations and related iterative methods for variational inequalities. (English summary) **2005b:47139**
Xu, Hui Fu An MPCC approach for stochastic Stackelberg-Nash-Cournot equilibrium. (English summary) **2005j:91011**
Yamashita, Nobuo (*with* Luo, Zhi-Quan) A nonlinear complementarity approach to multiuser power control for digital subscriber lines. (English summary) **2005f:91043**
Yang, Qingzhi On variable-step relaxed projection algorithm for variational inequalities. (English summary) **2005h:49026**
Yang, Xiao Qi (*with* Huang, Xue Xiang) Lower-order penalty methods for mathematical programs with complementarity constraints. (English summary) **2005f:90159**
— *see also* **Qi, Houduo**, 2005b:49040 *and* **Yang, Xin Min et al.**, 2005b:90120
Yang, Xin Min (*with* Yang, Xiao Qi; Teo, Kok Lay) Some remarks on the Minty vector variational inequality. (English summary) **2005b:90120**
Yao, Jen Chih *see* **Chadli, Ouayl et al.**, 2005e:90153 *and* **Chiang, Yungyen**, 2005g:49014
Yassine, Adnan *see* **Kadiri, Abderrahim**, 2005e:65079
Ye, Jane J. Necessary and sufficient optimality conditions for mathematical programs with equilibrium constraints. (English summary) **2005m:90092**
Yu, Zhen Sheng The bounded smooth reformulation and a trust region algorithm for semidefinite complementarity problems. (English summary) **2005h:90093**
Yuan, Xiao-ming[1] *see* **He, Bing-sheng et al.**, 2005e:49010
Zeng, Xue Lan *see* **Gong, Yan De**
Zhang, Jian Zhong (*with* Liu, Guoshan; Wang, Shou Yang) A globally convergent approximately active search algorithm for solving mathematical programs with linear complementarity constraints. (English summary) **2005h:90136**
— *see also* **He, Bing-sheng et al.**, 2005e:49010
Zhang, Ju-Liang (*with* Chen, Jian) A smoothing Levenberg-Marquardt type method for LCP. (English summary) **2005d:90122**
Zhang, Li Ping[1] (*with* Han, Ji Ye; Huang, Zheng Hai) Superlinear/quadratic one-step smoothing Newton method for P_0-NCP. (English summary) **2005k:90161**
Zhang, Xiang Sun *see* **Xiu, Naihua et al.**, 2005b:47139
Zhao, Yali (*with* Xia, Zun Quan; Liu, Ze Qing; Kang, Shin Min) Iterative algorithm for generalized nonlinear mixed quasivariational inequalities. (English summary)
Zheng, Da-Zhong *see* **Cheng, Yiping**, 2005k:93128
Zhou, Guang Lu (*with* Toh, Kim-Chuan; Sun, De Feng) Globally and quadratically convergent algorithm for minimizing the sum of Euclidean norms. (English summary) **2005a:65060**

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Amaya, Jorge *see* **Gómez Fernández, Juan Alfredo et al.**, 2005m:90135
Barton, Paul I. *see* **Bhattacharjee, Binita et al.**, 2005i:90083
Betrò, Bruno An accelerated central cutting plane algorithm for linear semi-infinite programming. (English summary) **2005g:90154**
Bhattacharjee, Binita (*with* Green, William H., Jr.; Barton, Paul I.) Interval methods for semi-infinite programs. (English summary) **2005i:90083**
Bosch, Paul J. *see* **Gómez Fernández, Juan Alfredo et al.**, 2005m:90135
Cánovas, María J. (*with* López, Marco A.; Parra, Juan) On the continuity of the optimal value in parametric linear optimization: stable discretization of the Lagrangian dual of nonlinear problems. (English summary) **2005k:90179**
Cheng, Hao *see* **Özçam, Burcu**, 2005m:90137
Chi, Xiao Ni *see* **Wang, Shu Hua et al.**
Feng, Xiang Qian (*with* Li, Rong Sheng[2]; Zhu, Nian Lei) Properties and algorithms for bilevel linear fractional programming problems. (Chinese. English and Chinese summaries)
Fernandes, Edite M. G. P. *see* **Vaz, A. Ismael F. et al.**, 2005b:90145
Goberna, M. A. (*with* Hernández, L.; Todorov, Maxim Ivanov) On linear inequality systems with smooth coefficients. (English summary) **2005k:90180**
Gomes, M. Paula S. F. *see* **Vaz, A. Ismael F. et al.**, 2005b:90145
Gómez, Soraya (*with* Lancho Romero, Arturo; Todorov, Maxim Ivanov) Some stability properties in the convex parametric semi-infinite optimization. (English summary) **2005k:90181**
Gómez Fernández, Juan Alfredo (*with* Bosch, Paul J.; Amaya, Jorge) Duality for inexact semi-infinite linear programming. (English summary) **2005m:90135**
Green, William H., Jr. *see* **Bhattacharjee, Binita et al.**, 2005i:90083
He, Guo Ping *see* **Yang, Hong-li**

He, Ju Lin *see* **Jia, Shi Hui et al., 2005k:90182**
Hernández, L. *see* **Goberna, M. A. et al., 2005k:90180**
Ito, Satoshi (*with* Liu, Yan Qun; Teo, Kok Lay) An approximation approach to non-strictly convex quadratic semi-infinite programming. (English summary) **2005i:90084**
Jaume, Daniel A. (*with* Puente, Rubén) Representability of convex sets by analytical linear inequality systems. (English summary) **2005a:90164**
Jia, Shi Hui (*with* Wan, Zhong Ping; He, Ju Lin; Peng, Xiang Yang) A new discretization method for semi-infinite programming problems. (Chinese. English and Chinese summaries) **2005k:90182**
Lancho Romero, Arturo *see* **Gómez, Soraya et al., 2005k:90181**
Li, Dong Hui[1] (*with* Qi, Liqun; Tam, Judy; Wu, Soon-Yi) A smoothing Newton method for semi-infinite programming. (English summary) **2005j:90086**
Li, Rong Sheng[2] *see* **Feng, Xiang Qian et al.**
Lin, J. Y. *see* **Sheu, Ruey-Lin, 2005d:90129**
Liu, San Yang *see* **Wang, Shu Hua et al.**
Liu, Yan Qun (*with* Teo, Kok Lay; Wu, Soon-Yi) A new quadratic semi-infinite programming algorithm based on dual parametrization. (English summary) **2005g:90155**
— *see also* **Ito, Satoshi et al., 2005i:90084**
López, Marco A. (*with* Rubinov, Aleksandr M.; Vera de Serio, Virginia N.) Stability of semi-infinite inequality systems involving min-type functions. (English summary) **2005m:90136**
— *see also* **Cánovas, María J. et al., 2005k:90179**
Mu, Xue Wen *see* **Wang, Shu Hua et al.**
Özçam, Burcu (*with* Cheng, Hao) A discretization based smoothing method for solving semi-infinite variational inequalities. (English summary) **2005m:90137**
Parra, Juan *see* **Cánovas, María J. et al., 2005k:90179**
Peng, Xiang Yang *see* **Jia, Shi Hui et al., 2005k:90182**
Polak, Elijah Smoothing techniques for the solution of finite and semi-infinite min-max-min problems. (English summary) **2005a:90165**
Puente, Rubén *see* **Jaume, Daniel A., 2005a:90164**
Qi, Liqun *see* **Li, Dong Hui[1] et al., 2005j:90086**
Rubinov, Aleksandr M. *see* **López, Marco A. et al., 2005m:90136**
Sheu, Ruey-Lin (*with* Lin, J. Y.) Solving continuous min-max problems by an iterative entropic regularization method. (English summary) **2005d:90129**
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Teo, Kok Lay *see* **Liu, Yan Qun et al., 2005g:90155** *and* **Ito, Satoshi et al., 2005i:90084**
Todorov, Maxim Ivanov *see* **Goberna, M. A. et al., 2005k:90180** *and* **Gómez, Soraya et al., 2005k:90181**
Vaz, A. Ismael F. (*with* Fernandes, Edite M. G. P.; Gomes, M. Paula S. F.) A quasi-Newton interior point method for semi-infinite programming. (English summary) **2005b:90145**
Vera de Serio, Virginia N. *see* **López, Marco A. et al., 2005m:90136**
Wan, Zhong Ping *see* **Jia, Shi Hui et al., 2005k:90182**
Wang, Shu Hua (*with* Liu, San Yang; Mu, Xue Wen; Chi, Xiao Ni) An inexact infeasible interior point algorithm for semidefinite programming. (Chinese. English and Chinese summaries)
Wu, Soon-Yi *see* **Liu, Yan Qun et al., 2005g:90155** *and* **Li, Dong Hui[1] et al., 2005j:90086**
Yang, Hong-li (*with* He, Guo Ping) A new ACCPM algorithm for convex semi-infinite programming. (English and Chinese summaries)
— (*with* He, Guo Ping) A locally convergent SSLE algorithm for semi-infinite programming. (Chinese. English and Chinese summaries)
Zhu, Nian Lei *see* **Feng, Xiang Qian et al.**

Items with secondary classifications in 90C34

Burachik, Regina Sandra (*with* Lopes, J. O.) A convergence result for an outer approximation scheme. (English summary) **2005c:49015**
Chen, Xiao Jun[1] *see* **Ling, Chen et al., 2005m:90074**
Dentcheva, Darinka (*with* Ruszczyński, Andrzej) Semi-infinite probabilistic optimization: first-order stochastic dominance constraints. (English summary) **2005h:90078**
Eremin, I. I. (*with* Patsko, S. V.) Fejér processes for infinite systems of convex inequalities. (English summary) **2005a:90122**
Faybusovich, Leonid (*with* Gekhtman, Michael) Calculation of universal barrier functions for cones generated by Chebyshev systems over finite sets. (English summary) **2005k:90207**
Fernandes, Edite M. G. P. *see* **Vaz, A. Ismael F. et al.**
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Sarin, Subhash C. (*with* Sherali, Hanif D.; Bhootra, Ajay) New tighter polynomial length formulations for the asymmetric traveling salesman problem with and without precedence constraints. (English summary) **2005f:90146**
Schmitt, Matthias *see* **Fekete, Sándor P. et al., 2005a:90168**
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Sheikholeslam, F. *see* **Goudarzi, P. et al., 2005m:90143**
Shepherd, F. Bruce (*with* Vetta, Adrian) The demand matching problem. (English summary) (*see* **2005a:90006**)
Sherali, Hanif D. *see* **Sarin, Subhash C. et al., 2005f:90146**
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Shyu, Shyong Jian (*with* Yin, Peng-Yeng; Lin, Bertrand M. T.) An ant colony optimization algorithm for the minimum weight vertex cover problem. (English summary)
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Tan, Fang (*with* Sun, Shi Jie) Scheduling jobs for a common due window to minimize weighted sum of earliness and tardiness penalties. (Chinese. English and Chinese summaries)
Tang, Shyue-Ming *see* **Yeh, Fu-Long et al., 2005a:90173**
Tarantilis, C. D. Solving the vehicle routing problem with adaptive memory programming methodology. (English summary)
Thomas, Doreen A. *see* **Brazil, Marcus et al.**
Triki, Chefi *see* **Ghiani, Gianpaolo et al., 2005d:90130**
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Vygen, Jens On dual minimum cost flow algorithms (extended abstract). (*see* **2005i:68003**)
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Wang, Biing-Feng (*with* Ku, Shan-Chyun; Hsieh, Yong-Hsian) The conditional location of a median path. (English summary) (*see* **2005a:68012**)
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Wang, Yue-Li *see* **Yeh, Fu-Long et al., 2005a:90173**
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— *see also* **Abrahamson, Jeff et al., 2005m:90138**
Wu, Bang Ye (*with* Huang, Zheng-Nan; Zhan, Fu-Jie) Exact algorithms for the minimum latency problem.
— Constructing the maximum consensus tree from rooted triples. (English summary) **2005c:90106**
Xie, Tao (*with* Chen, Huo Wang; Kang, Li Shan) A fast algorithm of quadratic knapsack problem. (Chinese. English and Chinese summaries)
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Yang, Xiao Qi *see* **Sun, Jie et al., 2005h:90150**
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Zhang, Shao-qiang (*with* Li, Guo Jun[1]; Sohn, Moo Young) Two feedback problems for graphs with bounded tree-width. (English summary) **2005b:90148**
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Zieliński, Paweł The computational complexity of the relative robust shortest path problem with interval data. (English summary) **2005j:90092**
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Altman, Eitan *see* **El Azouzi, Rachid et al.**

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Anily, Shoshana (*with* Bramel, Julien) An asymptotic 98.5%-effective lower bound on fixed partition policies for the inventory-routing problem. (English summary) **2005g:90005**

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Arcak, Murat *see* **Wen, John T., 2005b:90023**

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Augustine, John E. (*with* Seiden, Steven S.) Linear time approximation schemes for vehicle scheduling. (English summary) (*see* **2005a:68002**)

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Avella, Pasquale (*with* Mattia, Sara; Sassano, Antonio) Metric inequalities and the network loading problem. (English summary) **2005m:90010**

Awerbuch, Baruch (*with* Kleinberg, Robert D.) Adaptive routing with end-to-end feedback: distributed learning and geometric approaches. (English summary) **2005j:68010**

Azaron, Amir (*with* Modarres, Mohammad) Distribution function of the shortest path in networks of queues. (English summary) **2005g:90024**

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Bansal, Nikhil (*with* Blum, Avrim; Chawla, Shuchi; Meyerson, Adam) Approximation algorithms for deadline-TSP and vehicle routing with time-windows. (English summary) **2005j:68122**

Barahona, Francisco (*with* Kerivin, Hervé) Separation of partition inequalities with terminals. (English summary) **2005g:90019**

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Bazaraa, Mokhtar S. (*with* Jarvis, John J.; Sherali, Hanif D.) ★ Linear programming and network flows. **2005g:90001**

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Böckenhauer, Hans-Joachim (*with* Bongartz, Dirk; Hromkovič, Juraj; Klasing, Ralf; Proietti, Guido; Seibert, Sebastian; Unger, Walter) On the hardness of constructing minimal 2-connected spanning subgraphs in complete graphs with sharpened triangle inequality. (English summary) **2005e:68075**

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Bornstein, Claudio Thomás (*with* Alcoforado, Luciane Ferreira; Maculan, Nelson) A graph-oriented approach for the minimization of the number of late jobs for the parallel machines scheduling problem. (English summary)

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Carr, Robert D. (*with* Vempala, Santosh S.) On the Held-Karp relaxation for the asymmetric and symmetric traveling salesman problems. (English summary) **2005m:90168**

Ceselli, Alberto Two exact algorithms for the capacitated p-median problem. (English summary) **2005d:90066**

Chakrabarti, Amit (*with* Chekuri, Chandra; Gupta, Anupam; Kumar, Amit[2]) Approximation algorithms for the unsplittable flow problem. (English summary) (*see* **2005d:68005**)

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Chen, Bao Xing (*with* Du, Ni) Three new infinite families of directed double loop networks not containing optimal and almost optimal networks. (Chinese. English and Chinese summaries)

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Chen, Yen-Liang (*with* Tang, Kwei) Finding the Kth shortest path in a time-schedule network. (English summary) **2005g:90047**

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Chuang, Tzung-Nan (*with* Kung, Jung-Yuan) The fuzzy shortest path length and the corresponding shortest path in a network. (English summary)

Chuzhoy, Julia (*with* Guha, Sudipto; Halperin, Eran; Khanna, Sanjeev; Kortsarz, Guy; Naor, Joseph) Asymmetric k-center is $\log^* n$-hard to approximate. (English summary) **2005j:68041**

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— (*with* Paradon, Xavier; Paschos, Vangelis Th.) On-line maximum-order induced hereditary subgraph problems. (English summary) **2005k:05224**

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— (*with* Skutella, Martin) The quickest multicommodity flow problem. (English summary) (*see* **2005a:90006**)
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— *see also* **Feillet, Dominique et al., 2005d:90013** *and* **Ghamlouche, Ilfat et al., 2005e:90009**
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— *see also* **Dean, Brian C., 2005c:68290**
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Gomes, Teresa *see* **Martins, Lúcia et al.**
González-Martín, Carlos *see* **Sedeño-Noda, Antonio et al., 2005g:90131**
Grebennik, I. V. Interval models of the combinatorial optimization of quasilinear functions in the space $l_\infty^n R$. (Russian. English summary) **2005k:90121**
(Grötschel, Martin) *see* **Sharpest cut, 2005b:90009**
Gu, Jun *see* **Zou, Peng et al.**
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Gueguen, Cyrille *see* **Feillet, Dominique et al., 2005d:90013**
Guenin, Bertrand A short proof of Seymour's characterization of the matroids with the Max-Flow Min-Cut property. (English summary) (*see* **2005a:90006**)
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Gupta, Anupam *see* **Chakrabarti, Amit et al., (2005d:68005)**
Gusfield, Dan (*with* Eddhu, Satish; Langley, Charles) The fine structure of galls in phylogenetic networks. (English summary) **2005g:92023**
— Optimal, efficient reconstruction of root-unknown phylogenetic networks with constrained and structured recombination. (English summary) **2005k:92036**
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Hall, Alexander (*with* Hippler, Steffen; Skutella, Martin) Multicommodity flows over time: efficient algorithms and complexity. (English summary) **2005m:90012**
— *see also* **Erlebach, Thomas, 2005b:90044**
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— (*with* Levin, Asaf) Minimum restricted diameter spanning trees. (English summary) (*see* **2005d:68005**)
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Huo, Yumei (*with* Leung, Joseph Y.-T.) Online scheduling of precedence constrained tasks. (English summary) **2005k:90038**
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— *see also* **Barahona, Francisco**, 2005g:90019
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— *see also* **Chuzhoy, Julia et al.**, 2005j:68041 *and* **Kortsarts, Yana et al.**, 2005m:05213
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Kubale, Marek *see* **Giaro, Krzysztof et al.**, 2005g:90052; (2005d:68005) *and* **Graph colorings**, 2005i:05075
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Li, Ken-Li (*with* Li, Ren-Fa; Li, Qing Hua) Optimal parallel algorithm for the knapsack problem without memory conflicts. (English summary) **2005g:68186**
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Li, Yinzhen[2] (*with* Guo, Yao Huang) An algorithm for finding shortest path on fuzzy acyclic directed network. (Chinese. English and Chinese summaries)
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Lübbecke, Marco E. Combinatorially simple pickup and delivery paths. (English summary) **2005m:90050**
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Miller, Zevi (*with* Pritikin, Dan; Perkel, Manley; Sudborough, I. H.) The sequential sum problem and performance bounds on the greedy algorithm for the on-line Steiner problem. (English summary) **2005m:05059**
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— Approximation algorithms for the maximum Hamiltonian path problem with specified endpoint(s). (English summary) **2005g:90116**
Mordukhovich, Boris S. (*with* Rockafellar, R. Tyrrell) Preface [Variational analysis and its applications].
Moretti, Stefano *see* **Brânzei, Rodica et al.**, 2005h:91050
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Sebő, András (*with* Tannier, Eric) On metric generators of graphs. (English summary) **2005b:05083**
Sedeño-Noda, Antonio (*with* González-Martín, Carlos; Gutiérrez, José Miguel) The biobjective undirected two-commodity minimum cost flow problem. (English summary) **2005g:90131**
Seibert, Sebastian *see* **Böckenhauer, Hans-Joachim et al.**, **2005e:68075**
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Selvarajah, Esaignani *see* **Hall, Nicholas G. et al.**, **2005i:90021**
Semet, Frédéric *see* **Gendreau, Michel et al.**
Sergeev, S. I. Improved lower bounds for the solution of a quadratic assignment problem. (Russian. Russian summary) **2005h:90112**
Sergīenko, T. Ī. Stability under constraints of a vector optimization problem on integer points of a convex polyhedron. (Russian. English summary) **2005b:90118**
Shamir, Ron (*with* Sharan, Roded; Tsur, Dekel) Cluster graph modification problems. (English summary) (*see* **2005a:68015**)
Shan, M. K. *see* **Hsu, F. R. et al.**, **2005m:68242**
Shantz, Joseph *see* **Mehrotra, Anuj et al.**, **2005g:90075**
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Shyu, Shyong Jian (*with* Tsai, Ying Teh; Lee, Richard Char Tung) The minimal spanning tree preservation approaches for DNA multiple sequence alignment and evolutionary tree construction. (English summary) **2005h:92020**
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Sigal, I. Kh. *see* **Melamed, I. I.**
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Stier Moses, Nicolás E. *see* **Correa, José R. et al.**, **2005g:90013**
Strickland, Dawn M. (*with* Barnes, Earl R.; Sokol, Joel S.) Optimal protein structure alignment using maximum cliques. (English summary)
Sudborough, I. H. *see* **Miller, Zevi et al.**, **2005m:05059**
Sun, Xiao Ming[2] *see* **Li, Minming et al.**, **2005d:68017**
Suzuki, Taiji (*with* Aoki, Satoshi; Murota, Kazuo) Use of primal-dual technique in the network algorithm for two-way contingency tables. (English summary) **2005j:62127**
Sviridenko, M. I. *see* **Lewenstein, Moshe**, **2005c:68297**
Swamy, Chaitanya (*with* Kumar, Amit[2]) Primal-dual algorithms for connected facility location problems. (English summary) **2005c:90042**
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Talwar, Kunal The single-sink buy-at-bulk LP has constant integrality gap. (English summary) (*see* **2005a:90006**)
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Tharwat, Assem (*with* Zimmermann, Karel) A note on some separable location problems—a multicriterial approach. (English summary)
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Toppur, Badri (*with* Smith, J. MacGregor) Properties of $\mathscr{R}$-sausages. (English summary) **2005g:52038**
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Vempala, Santosh S. *see* **Carr, Robert D.**, **2005m:90168**
Wan, Ying-Yu (*with* Liang, Weifa) On the minimum number of wavelengths in multicast trees in WDM networks. (English summary)
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Wang, Da Dong *see* **Wang, Hong Jun et al.**
Wang, Fan[5] *see* **Lim, Andrew L. C. et al.**, **2005i:68091**
Wang, Fu-Hsing (*with* Hsu, Cheng-Ju; Tsai, Jen-Chih) Minimal feedback vertex sets in directed split-stars. (English summary) **2005m:05107**
Wang, Hong Jun (*with* Wang, Rui Jun; Wang, Da Dong; Gao, Yuan) Convergence time of BGP based on dispute digraph. (Chinese. English and Chinese summaries)
Wang, Hsiao-Fan (*with* Wu, Kuang-Yao) Hybrid genetic algorithm for optimization problems with permutation property. (English summary)
Wang, Lu Sheng *see* **Chen, Zhi-Zhong et al.**, **2005m:68252**
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Wang, Xiao Li[2] *see* **Zhang, Shao-qiang et al.**, **2005f:90022**
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Woodroofe, Russ *see* **Barvinok, A. I. et al.**, **2005m:68095**

Wu, Chin-Chia A makespan study of the two-machine flowshop scheduling problem with a learning effect. (English summary)
Wu, Kuang-Yao *see* **Wang, Hsiao-Fan**
Xiao, Lin[3] (*with* Boyd, Stephen P.) Fast linear iterations for distributed averaging. (English summary)
Xu, Jinhui (*with* Yang, Yang[2]; Lin, Zhiyong) Traveling salesman problem of segments. (English summary) **2005b:68291**
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Yang, Yang[2] *see* **Xu, Jinhui et al., 2005b:68291**
Young, Neal E. *see* **Karger, David R. et al., 2005d:68153**
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Zhang, Binwu (*with* Zhang, Jian Zhong; He, Yong[1]) The center location improvement problem under the Hamming distance. (English summary) **2005m:90055**
Zhang, Ding *see* **Dong, June et al., 2005a:90018**
Zhang, Fu Ji *see* **Qian, Jian Guo, 2005d:05142**
Zhang, Jian Zhong *see* **Zhang, Binwu et al., 2005m:90055**
Zhang, Ping[5] *see* **Chartrand, Gary et al., 2005i:05091**
Zhang, Shao-qiang (*with* Wang, Xiao Li[2]; Li, Guo Jun[1]) A linear time algorithm for minimum-weight feedback vertex set problem in outerplanar graphs. (English and Chinese summaries) **2005f:90022**
Zhou, Xiao *see* **Ito, Takehiro et al., (2005b:68004)**
Zhou, Zhi[2] *see* **Zou, Peng et al.**
Zimmermann, Karel *see* **Tharwat, Assem**
Zimmermann, Karl-Heinz Solving constrained combinatorial optimization problems via importance sampling in the grand canonical ensemble. (English summary) **2005g:90119**
Zou, Peng (*with* Zhou, Zhi[2]; Wan, Ying-Yu; Chen, Guo Liang[2]; Gu, Jun) New meta-heuristic for combinatorial optimization problems: intersection based scaling. (English summary)

Items listed otherwise than by author

Berlin ★ The sharpest cut. **2005b:90009**
Cambridge, MA ★ Integer programming and combinatorial optimization. **2005a:90006**
Contemporary Mathematics ★ Graph colorings. **2005i:05075**
Graph colorings ★ Graph colorings. **2005i:05075**
Handbook of combinatorial optimization. Supplement Vol. B ★ Handbook of combinatorial optimization. Supplement Vol. B. **2005h:90001**
Integer programming and combinatorial optimization ★ Integer programming and combinatorial optimization. **2005a:90006**
Lecture Notes in Computer Science ★ Integer programming and combinatorial optimization. **2005a:90006**
Sharpest cut ★ The sharpest cut. **2005b:90009**

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Abbad, Mohammed (*with* Abdallaoui, Ghali M.; Benomar, Ghizlane) Utilisation de la programmation dynamique dans la modélisation de la pêcherie de la sardine au Maroc. (English and French summaries) [Using dynamic programming to model the Moroccan sardine fishery system]
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Benomar, Ghizlane *see* **Abbad, Mohammed et al.**
Chen, Shou-Yu (*with* Fu, Guang-Tao) Combining fuzzy iteration model with dynamic programming to solve multiobjective multistage decision making problems. (English summary) **2005k:90195**
de Cooman, Gert (*with* Troffaes, Matthias C. M.) Dynamic programming for deterministic discrete-time systems with uncertain gain. (English summary) **2005k:90196**
Diamantidis, A. C. (*with* Papadopoulos, C. T.) A dynamic programming algorithm for the buffer allocation problem in homogeneous asymptotically reliable serial production lines. (English summary)
Dubois, Didier (*with* Fortemps, Ph.) Selecting preferred solutions in the minimax approach to dynamic programming problems under flexible constraints. (English summary)
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Fortemps, Ph. *see* **Dubois, Didier**
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Guénoche, Alain About the design of oligo-chips. (English summary)
Hildenbrandt, Regina Stochastic dynamic programming with random disturbances. (English summary) **2005a:90174**
Iwamoto, Seiichi[2] Recursive methods in probability control. (English summary) **2005f:90147**
— Primitive dynamic programming. (English summary)
Jiang, Ji-rong (*with* Sun, Xiao-ling) A hybrid dynamic programming method for concave resource allocation problems. (English summary)
Kalaba, Robert E. (*with* Natsuyama, H.) Dynamic programming and minimal norm solutions of least squares problems. **2005e:90147**
Kang, Shin Min *see* **Liu, Ze Qing et al., 2005e:90148**
Liu, Ze Qing (*with* Agarwal, Ravi P.; Kang, Shin Min) On solvability of functional equations and system of functional equations arising in dynamic programming. (English summary) **2005e:90148**
Lübbecke, Marco E. Dual variable based fathoming in dynamic programs for column generation. (English summary)
Natsuyama, H. *see* **Kalaba, Robert E., 2005e:90147**
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Items with secondary classifications in 90C39

Abdul-Jalbar, B. *see* **Sedeño-Noda, Antonio et al., 2005d:90010**
Agrawal, Vipul (*with* Chao, Xiuli; Seshadri, Sridhar) Dynamic balancing of inventory in supply chains. (English summary) **2005c:90037**
Ahr, Dino (*with* Békési, József; Galambos, Gábor; Oswald, Marcus; Reinelt, Gerhard) An exact algorithm for scheduling identical coupled tasks. (English summary) **2005a:90051**
Ahsan, M. J. *see* **Khan, E. A. et al.**
Ammar, E. E. (*with* Khalifa, H. A.) Characterization of optimal solutions of uncertainty investment problem. (English summary)
Aryanezhad, Mir. B. *see* **Sadjadi, Seyed J. et al., 2005e:91091**
Augustine, John E. (*with* Seiden, Steven S.) Linear time approximation schemes for vehicle scheduling problems. (English summary) **2005d:68149**
Bardhan, A. K. *see* **Kapur, P. K. et al.**
Baron, Dror (*with* Bresler, Yoram) An $O(N)$ semipredictive universal encoder via the BWT. (English summary)
Bäuerle, Nicole (*with* Engelhardt-Funke, O.; Kolonko, M.) Routing of airplanes to two runways: monotonicity of optimal controls. (English summary) **2005h:60290**
Békési, József *see* **Ahr, Dino et al., 2005a:90051**
Björnberg, Jakob *see* **Diehl, Moritz**
Błażewicz, Jacek (*with* Pesch, Erwin; Sterna, Małgorzata; Werner, Frank) The two-machine flow-shop problem with weighted late work criterion and common due date. (English summary) **2005j:90021**
Bliman, Pierre-Alexandre (*with* Piunovskiĭ, A. B.; Sorine, Michel) Controlled linear system with delayed relay output under impulse random disturbances. (English summary)
Bomze, Immanuel M. *see* **Churilov, Leonid et al., 2005h:91102**
Brand, Matthew *see* **Nikovski, Daniel**
Bresler, Yoram *see* **Baron, Dror**
Brodskiĭ, M. I. Application of fuzzy dynamic programming to multicriterial decision-making methods. (Russian. English summary) **2005e:90048**
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Chao, Xiuli *see* **Agrawal, Vipul et al., 2005c:90037**
Cheevaprawatdomrong, Torpong (*with* Smith, Robert L.) Infinite horizon production scheduling in time-varying systems under stochastic demand. (English summary) **2005a:90079**
Chen, Ke Bing (*with* Gao, Cheng Xiu) An algorithm for solving taxi scheduling in a limited network. (Chinese. English and Chinese summaries)
Chen, Xin[1] (*with* Simchi-Levi, David) Coordinating inventory control and pricing strategies with random demand and fixed ordering cost: the finite horizon case. (English summary) **2005f:90008**
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Cheng, T. C. Edwin *see* **Yuan, Jin Jiang et al., 2005a:90077**
Churilov, Leonid (*with* Bomze, Immanuel M.; Sniedovich, Moshe; Ralph, Daniel) Hyper sensitivity analysis of portfolio optimization problems. (English summary) **2005h:91102**
Cosar, Ahmet *see* **Toroslu, Ismail H.**
Dement'ev, V. T. (*with* Shamardin, Yu. V.) A two-level assignment problem with a generalized Monge condition. (Russian. Russian summary) **2005b:90105**
Dempster, M. A. H. Sequential importance sampling algorithms for dynamic stochastic programming. (English and Russian summaries) **2005k:90090**
Diehl, Moritz (*with* Björnberg, Jakob) Robust dynamic programming for min-max model predictive control of constrained uncertain systems. (English summary)
Dragut, A. B. A weakly monotonic backward induction algorithm on finite bounded subsets of vector lattices. (English summary) **2005a:93092**
Duin, C. W. A branch-checking algorithm for all-pairs shortest paths. (English summary) **2005h:90147**
Dunker, Thomas (*with* Radons, Günter; Westkämper, Engelbert) Combining evolutionary computation and dynamic programming for solving a dynamic facility layout problem. (English summary)
Engelhardt-Funke, O. *see* **Bäuerle, Nicole et al., 2005h:60290**
Epping, Th. (*with* Hochstättler, Winfried; Oertel, Peter) Complexity results on a paint shop problem. (English summary) **2005a:90062**
Ferris, Michael C. (*with* Voelker, Meta M.) Fractionation in radiation treatment planning. (English summary)
Frauendorfer, Karl (*with* Haarbrücker, Gido) Numerical techniques in applied multistage stochastic programming. (English summary) **2005e:90079**
Galambos, Gábor *see* **Ahr, Dino et al., 2005a:90051**
Gao, Cheng Xiu *see* **Chen, Ke Bing**
Gao, Yong (*with* Wu, Jun Feng[2]; Niewiadomski, Robert; Wang, Yang[4]; Chen, Zhi-Zhong; Lin, Guo-Hui) A space efficient algorithm for sequence alignment with inversions. (English summary) (*see* **2005a:05002**)
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Goldberg, Jeffrey *see* **Lunday, Brian J. et al.**
Grüne, Lars (*with* Semmler, Willi; Sieveking, Malte) Creditworthiness and thresholds in a credit market model with multiple equilibria. (English summary) **2005i:91082**
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Hall, Nicholas G. (*with* Potts, Chris N.) The coordination of scheduling and batch deliveries. (English summary) **2005k:90058**

Hansen, Pierre (*with* Mladenović, Nenad) A separable approximation dynamic programming algorithm for economic dispatch with transmission losses. (English summary)
Hartman, Joseph C. Multiple asset replacement analysis under variable utilization and stochastic demand. (English summary) **2005j:90017**
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Hochstättler, Winfried *see* **Epping, Th. et al., 2005a:90062**
Hong, Shi Huang Solvability of multivalued differential systems and functional equations in dynamic programming. (Chinese. English and Chinese summaries) **2005e:34177**
Hsu, Vernon Ning *see* **Li, Chung-Lun et al., 2005b:90012**
Hudak, Dietmar (*with* Nollau, V.) Approximation solution and suboptimality for discounted semi-Markov decision problems with countable state space. (English summary) **2005g:90161**
Jang, Wooseung (*with* Shanthikumar, J. George) Sequential process control under capacity constraints. (English summary) **2005b:90037**
Jaruphongsa, Wikrom (*with* Çetinkaya, Sila; Lee, Chung-Yee) A two-echelon inventory optimization model with demand time window considerations. (English summary)
Jha, P. C. *see* **Kapur, P. K. et al.**
Jolai, Fariborz Minimizing number of tardy jobs on a batch processing machine with incompatible job families. (English summary)
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Kacprzyk, Janusz Fuzzy dynamic programming with stochastic systems under various aggregation operators: solvability and perceived meaning. (*see* **2005i:62007**)
Kajiya, M. *see* **Kataoka, Seiji**
Kang, Shin Min (*with* Guan, Hongyan; Liu, Ze Qing; Shim, Soo Hak) Common coincidence point theorems in T_1 topological spaces with application in dynamic programming. (English summary)
— *see also* **Wang, Weili, 2005b:54075**
Kapur, P. K. (*with* Jha, P. C.; Bardhan, A. K.) Optimal allocation of testing resource for a modular software. (English summary)
Kataoka, Seiji (*with* Kajiya, M.) Dynamic programming and lower-bound approaches to the minimum binding problem. (English summary)
Katz, Matthew J. (*with* Mitchell, Joseph S. B.; Nir, Yuval) Orthogonal segment stabbing. (English summary) **2005i:68083**
Khalifa, H. A. *see* **Ammar, E. E.**
Khan, E. A. (*with* Khan, M. G. M.; Ahsan, M. J.) On compromise allocation in multivariate stratified sampling. (English summary)
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Koole, Ger Convexity in tandem queues. (English summary) **2005f:60202**
Kösters, Holger A note on multiple stopping rules. (English summary) **2005b:60108**
Kostin, A. A. (*with* Krasotkina, O. V.; Markov, M. V.; Mottl′, V. V.; Muchnik, I. B.) Dynamic programming algorithms for the analysis of nonstationary signals. (Russian. Russian summary) **2005h:94014**
Krasotkina, O. V. *see* **Kostin, A. A. et al., 2005h:94014**
Kulikowski, Casimir *see* **do Lago, Alair Pereira et al., 2005m:92026**
do Lago, Alair Pereira (*with* Muchnik, I. B.; Kulikowski, Casimir) A sparse dynamic programming algorithm for alignment with non-overlapping inversions. (English summary) **2005m:92026**
Lee, Chung-Yee *see* **Jaruphongsa, Wikrom et al.**
Le Van, Cuong (*with* Vailakis, Yiannis) Recursive utility and optimal growth with bounded or unbounded returns. (English summary) **2005m:91141**
Li, Chung-Lun (*with* Hsu, Vernon Ning; Xiao, Wen-Qiang) Dynamic lot sizing with batch ordering and truckload discounts. (English summary) **2005b:90012**
Li, Deng Feng[1] (*with* Cheng, Chun-Tian) Stability on multiobjective dynamic programming problems with fuzzy parameters in the objective functions and in the constraints. (English summary) **2005c:90081**
Li, Duan *see* **Liao, Li-Zhi, 2005k:49061**
Li, Guo Jun[1] *see* **Zhang, Shao-qiang et al., 2005b:90148**
Liang, Chengzhi *see* **Ma, Bin et al., 2005k:92044**
Liao, Li-Zhi (*with* Li, Duan) Adaptive differential dynamic programming for multiobjective optimal control. (English summary) **2005k:49061**
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Lin, Kyle Y. A sequential dynamic pricing model and its applications. (English summary) **2005b:91085**
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Liu, Zhaohui *see* **Yuan, Jin Jiang et al., 2005a:90077**
Lunday, Brian J. (*with* Smith, J. Cole; Goldberg, Jeffrey) Algorithms for solving the conditional covering problem on paths. (English summary)
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Mania, M. G. (*with* Tevzadze, Revaz) A semimartingale backward equation and the variance-optimal martingale measure under general information flow. (English summary) **2005b:60168**
Margaliot, Michael (*with* Gitizadeh, Rabin) The problem of absolute stability: a dynamic programming approach. (English summary)
Markov, M. V. *see* **Kostin, A. A. et al., 2005h:94014**
Mateos-Planas, Xavier Technology adoption with finite horizons. (English summary) **2005d:91080**
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Nakai, Tōru Properties of total positivity and an application to job search under uncertainty. (English summary) **2005h:62024**
Ng, C. T. Daniel *see* **Yuan, Jin Jiang et al., 2005a:90077**
Niewiadomski, Robert *see* **Gao, Yong et al., (2005a:05002)**
Nikovski, Daniel (*with* Brand, Matthew) Exact calculation of expected waiting times for group elevator control. (English summary)
Nir, Yuval *see* **Katz, Matthew J. et al., 2005i:68083**
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Özer, Özalp (*with* Wei, Wei[4]) Inventory control with limited capacity and advance demand information. (English summary) **2005f:90011**
Pagès, Gilles (*with* Pham, Huyên; Printems, Jacques) An optimal Markovian quantization algorithm for multi-dimensional stochastic control problems. (English summary) **2005i:65014**
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Sakaguchi, Minoru Equilibrium in the three-player game of "risky exchange". (English summary) **2005j:91009**
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Sedeño-Noda, Antonio (*with* Gutiérrez, José Miguel; Abdul-Jalbar, B.; Sicilia Rodríguez, J.) An $O(T \log T)$ algorithm for the dynamic lot size problem with limited storage and linear costs. (English summary) **2005d:90010**
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Smith, David K.[1] Decision making and card collecting. (English summary)
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Sourd, Francis Optimal timing of a sequence of tasks with general completion costs. (English summary) **2005h:90052**
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Subramani, K. An analysis of totally clairvoyant scheduling. (English summary) **2005k:90045**
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Tewari, Geetika *see* **O'Rourke, Joseph, 2005f:68153**
Toroslu, Ismail H. (*with* Cosar, Ahmet) Dynamic programming solution for multiple query optimization problem.
Trzaskalik, Tadeusz Interactive procedures in hierarchical dynamic goal programming. (English summary) **2005b:90119**
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Vaughan, Timothy S. Failure replacement and preventive maintenance spare parts ordering policy. (English summary)
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Abbad, Mohammed (*with* Rahhali, Khalid) Semi-infinite weighted Markov decision processes with perturbation. (English summary) **2005f:90148**
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— The potential structure of sample paths and performance sensitivities of Markov systems. (English summary) **2005i:90091**
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Costa, Eduardo F. (*with* do Val, João B. R.; Fragoso, Marcelo D.) On a detectability concept of discrete-time infinite Markov jump linear systems. (English summary) **2005k:90200**
Cruz-Suárez, Daniel (*with* Montes-de-Oca, Raúl; Salem-Silva, Francisco) Conditions for the uniqueness of optimal policies of discounted Markov decision processes. (English summary) **2005k:90201**
Daduna, Hans (*with* Knopov, Pavel S.; Chornei, Ruslan K.) Controlled semi-Markov fields on graphs with a compact state space. (Ukrainian. Ukrainian summary) **2005i:90092**
Ezhov, Vladimir V. (*with* Filar, Jerzy A.; Gondzio, Jacek) An interior point heuristic for the Hamiltonian cycle problem via Markov decision processes. (English summary) **2005k:90202**
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Filar, Jerzy A. *see* **Ezhov, Vladimir V. et al., 2005k:90202**
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Fu, Michael *see* **Cao, Xi-Ren et al., 2005k:90197**
Givan, Robert *see* **Chang, Hyeong Soo et al., 2005c:90108**
Golubin, A. Yu. Nonstationary policies and average optimality in multichain Markov decision processes with a general action space. **2005j:90093**
Gondzio, Jacek *see* **Ezhov, Vladimir V. et al., 2005k:90202**
He, Han Gen *see* **Wang, Xue Ning et al.**
Henzinger, Thomas A. *see* **de Alfaro, Luca et al., 2005c:90107**
Hu, Qiying (*with* Liu, Jian Yong; Yue, Wuyi) Continuous time Markov decision processes with expected discounted total rewards. (English summary) (*see* **2005c:00015**)
Hudak, Dietmar (*with* Nollau, V.) Approximation solution and suboptimality for discounted semi-Markov decision problems with countable state space. (English summary) **2005g:90161**
Katta, Akshay-Kumar (*with* Sethuraman, Jay) A note on bandits with a twist. (English summary) **2005g:90162**
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Kyriakidis, E. G. Optimal control of a simple immigration-emigration process through total catastrophes. (English summary) **2005a:90176**
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Limnios, Nikolaos *see* **Boussemart, M., 2005e:90150**
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Marcus, Steven *see* **Cao, Xi-Ren et al., 2005k:90197**
Menache, Ishai (*with* Mannor, Shie; Shimkin, Nahum) Basis function adaptation in temporal difference reinforcement learning. (English summary)
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Ohtsubo, Yoshio Optimal threshold probability in undiscounted Markov decision processes with a target set. (English summary) **2005b:90152**
— (*with* Toyonaga, Kenji) Equivalence classes for optimizing risk models in Markov decision processes. (English summary) **2005h:90152**
Örmeci, E. Lerzan Dynamic admission control in a call center with one shared and two dedicated service facilities. (English summary) **2005d:90134**
— (*with* Burnetas, Apostolos) Admission control with batch arrivals. (English summary) **2005d:90135**
Patek, Stephen D. Policy iteration type algorithms for recurrent state Markov decision processes. (English summary) **2005f:90151**
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Rajadhyaksha, Gauresh (*with* Borkar, Vivek S.) Transmission rate control over randomly varying channels. (English summary) **2005g:90163**
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Sladký, Karel (*with* Sitař, Milan) On the set of optimal policies in variance penalized Markov decision chains. (English summary) (*see* **2005d:90005**)
Toyonaga, Kenji *see* **Ohtsubo, Yoshio, 2005h:90152**
Troffaes, Matthias C. M. Learning and optimal control of imprecise Markov decision processes by dynamic programming using the imprecise Dirichlet model. (*see* **2005i:62007**)
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Wang, Xue Ning (*with* He, Han Gen; Xu, Xin) Reinforcement learning algorithm for partially observable Markov decision processes. (Chinese. English and Chinese summaries)
Xu, Xin *see* **Wang, Xue Ning et al.**
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Adelman, Daniel A price-directed approach to stochastic inventory/routing. (English summary) **2005c:90003**
— (*with* Klabjan, Diego) Duality and existence of optimal policies in generalized joint replenishment. (English summary) **2005k:90002**
Altenberg, Lee Open problems in the spectral analysis of evolutionary dynamics. (English summary) (*see* **2005f:68006**)
Artalejo, Jesus R. (*with* Economou, Antonis) Optimal control and performance analysis of an $M^X/M/1$ queue with batches of negative customers. (English summary) **2005f:90028**
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— (*with* Engelhardt-Funke, O.; Kolonko, M.) Routing of airplanes to two runways: monotonicity of optimal controls. (English summary) **2005h:60290**
Becker, Raphen (*with* Zilberstein, Shlomo; Lesser, Victor; Goldman, Claudia V.) Solving transition independent decentralized Markov decision processes. (English summary) **2005k:68178**
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Bliman, Pierre-Alexandre (*with* Piunovskiĭ, A. B.; Sorine, Michel) Controlled linear system with delayed relay output under impulse random disturbances. (English summary)
Boda, Kang (*with* Filar, Jerzy A.; Lin, Yuanlie; Spanjers, Lieneke) Stochastic target hitting time and the problem of early retirement. (English summary) **2005b:91106**
Borkar, Vivek S. (*with* Ezhov, Vladimir V.; Filar, Jerzy A.) Directed graphs, Hamiltonicity and doubly stochastic matrices. (English summary) **2005h:60018**
Bowling, Shannon R. (*with* Khasawneh, Mohammad T.; Kaewkuekool, Sittichai; Cho, Byung Rae) A Markovian approach to determining optimum process target levels for a multi-stage serial production system. (English summary)
Cai, Kai-Yuan (*with* Li, Yong-Chao; Ning, Wei-Yi) Optimal software testing in the setting of controlled Markov chains. (English summary)
Cavazos-Cadena, Rolando (*with* Hernández-Hernández, Daniel) A characterization of the optimal risk-sensitive average cost in finite controlled Markov chains. (English summary) **2005m:93160**
Childress, Suzanne (*with* Durango-Cohen, Pablo) On parallel machine replacement problems with general replacement cost functions and stochastic deterioration. (English summary)
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— (*with* Dufour, François) On the ergodic decomposition for a class of Markov chains. (English summary) **2005j:60136**
Cui, Wan Zhao (*with* Zhu, Chang Chun; Bao, Wen Xing; Liu, Jun Hua) Least squares wavelet support vector machines and their application to nonlinear system identification. (Chinese. English and Chinese summaries)
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Dai, Gui Ping *see* **Li, Yan Jie[1] et al., 2005k:60244**
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Hu, Junling (*with* Wellman, Michael P.) Nash Q-learning for general-sum stochastic games. (English summary) **2005m:68180**
Hu, Qiying *see* **Du, Rong et al.**
Hunt, F. Y. Sample path optimality for a Markov optimization problem. (English summary) **2005m:60159**
Iwamoto, Seiichi[2] Recursive methods in probability control. (English summary) **2005f:90147**
Jang, Wooseung (*with* Shanthikumar, J. George) Sequential process control under capacity constraints. (English summary) **2005b:90037**
Jaśkiewicz, A. On the equivalence of two expected average cost criteria for semi-Markov control processes. (English summary) **2005e:60203**
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Joo, Sung-Kwan (*with* Liu, Chen-Ching; Shen, Yangfang; Zabinsky, Zelda B.; Lawarree, Jacques) Optimization techniques for available transfer capability (ATC) and market calculations. (English summary)
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Kanzow, Christian (*with* Nagel, Christian) Corrigendum: "Semidefinite programs: new search directions, smoothing-type methods, and numerical results" [SIAM J. Optim. **13** (2002), no. 1, 1–23; MR1922431 (2003f:90053)]. (English summary) **2005e:90087**
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Li, Jing-An (*with* Liu, Ke[1]; Leung, Stephen C. H.; Lai, Kin Keung) Empty container management in a port with long-run average criterion. (English summary) **2005e:90004**
Li, Yan Jie[1] (*with* Yin, Bao Qun; Xi, Hong Sheng; Dai, Gui Ping) Sensitivity analysis and performance optimization of a class of continuous time Markov chains. (Chinese. English and Chinese summaries) **2005k:60244**
Li, Yong-Chao *see* **Cai, Kai-Yuan et al.**
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Liu, Jun Hua *see* **Cui, Wan Zhao et al.**
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Parr, Ronald *see* **Lagoudakis, Michail G., 2005k:68172** *and* **Guestrin, Carlos et al.**
Patwardhan, R. S. *see* **Gopaluni, R. B. et al.**
Piunovskiĭ, A. B. Multicriteria impulsive control of jump Markov processes. (English summary) **2005k:93242**
— Bicriteria optimization of a queue with a controlled input stream. (English summary) **2005f:60204**
— *see also* **Bliman, Pierre-Alexandre et al.**
Pliska, Stanley R. *see* **Bielecki, Tomasz R., 2005b:91105**
Prieto-Rumeau, Tomás (*with* Hernández-Lerma, Onésimo) The Laurent series, sensitive discount and Blackwell optimality for continuous-time controlled Markov chains. (English summary) **2005i:93092**
Rabehasaina, Landy (*with* Sericola, Bruno) A second-order Markov-modulated fluid queue with linear service rate. (English summary) **2005m:60213**
Ragwitz, Mario *see* **Kantz, Holger**
Rieder, Ulrich *see* **Bäuerle, Nicole, 2005b:91101**
Romera, Rosario *see* **Hernández-Lerma, Onésimo, 2005e:93167**
Ross, Sheldon M. *see* **Lin, Kyle Y., 2005c:60123**
Rutkowski, Marek *see* **Bielecki, Tomasz R., 2005b:91104**
Saebi, Nasrollah Aspects of control for the normal Markov processes. (English summary) **2005m:62015**
Schäl, Manfred *see* **Forwick, Lothar et al., 2005c:49063**
Schmitz, Michael *see* **Forwick, Lothar et al., 2005c:49063**
Sericola, Bruno *see* **Rabehasaina, Landy, 2005m:60213**
Sgurev, Vassil Characteristic features of Markov flow games with linear constraints. (English and Bulgarian summaries)
Shah, Sirish L. *see* **Gopaluni, R. B. et al.**
Shanthikumar, J. George *see* **Jang, Wooseung, 2005b:90037**
Shen, Yangfang *see* **Joo, Sung-Kwan et al.**
Shmerling, Efraim *see* **Hochberg, Kenneth J., 2005i:60159**
Sorine, Michel *see* **Bliman, Pierre-Alexandre et al.**
Spanjers, Lieneke *see* **Boda, Kang et al., 2005b:91106**
Stettner, Lukasz Risk-sensitive portfolio optimization with completely and partially observed factors. (English summary) **2005f:60088**
Strekalovskiĭ, A. S. Some remarks on D.C. programming. **2005i:90070**
Sudderth, William D. *see* **Laraki, Rida, 2005e:60091**
Süral, Haldun *see* **Koçlar, Ayşe, 2005g:90056**
Tang, Hao (*with* Han, Jiang Hong; Gao, Jun) Optimal robust control policy for continuous-time Markov control processes with average-cost criteria. (Chinese. English and Chinese summaries) **2005d:93152**
Teneketzis, Demosthenis *see* **Javidi, Tara, 2005b:93050**
Trück, Stefan (*with* Özturkmen, Emrah) Estimation, adjustment and application of transition matrices in credit risk models. (English summary) (*see* **2005b:91009**)
Venkataraman, Shobha *see* **Guestrin, Carlos et al.**
Wang, Shou Yang *see* **Zhu, Shu-Shang et al., 2005e:91097**
Wellman, Michael P. *see* **Hu, Junling, 2005m:68180**
Xi, Hong Sheng *see* **Li, Yan Jie[1] et al., 2005k:60244**
Yin, Bao Qun *see* **Li, Yan Jie[1] et al., 2005k:60244**
Yin, Gang George (*with* Zhou, Xun Yu) Markowitz's mean-variance portfolio selection with regime switching: from discrete-time models to their continuous-time limits. (English summary) **2005b:91139**
Yoon, Seunghwan (*with* Lewis, Mark E.) Optimal pricing and admission control in a queueing system with periodically varying parameters. (English summary) **2005f:60208**
Zabinsky, Zelda B. *see* **Joo, Sung-Kwan et al.**
Zhang, Dan[5] (*with* Cooper, William L.) Revenue management for parallel flights with customer-choice behavior. (English summary)
Zhou, Xun Yu *see* **Yin, Gang George, 2005b:91139**
Zhu, Chang Chun *see* **Cui, Wan Zhao et al.**
Zhu, Shu-Shang (*with* Li, Duan; Wang, Shou Yang) Risk control over bankruptcy in dynamic portfolio selection: a generalized mean-variance formulation. (English summary) **2005e:91097**
Zilberstein, Shlomo *see* **Becker, Raphen et al., 2005k:68178**

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Ahmad, Izhar (*with* Husain, Z.) Nondifferentiable second-order symmetric duality.

(English summary) **2005k:90204**
— Multiobjective mixed symmetric duality with invexity. (English summary) **2005m:90147**
Andreani, Roberto (*with* Martínez, José Mario; Schuverdt, M. L.) On the relation between constant positive linear dependence condition and quasinormality constraint qualification. (English summary) **2005k:90205**
(Arora, Savita) *see* **Calvete Fernández, Herminia Inmaculada**
Bednařík, Dušan (*with* Pastor, Karel) Elimination of strict convergence in optimization. (English summary) **2005i:90093**
Bertsekas, Dimitri P. *see* **Ozdaglar, Asuman E., 2005g:90164**
Boţ, Radu Ioan (*with* Grad, Sorin-Mihai; Wanka, Gert) Entropy constrained programs and geometric duality obtained via Fenchel-Lagrange duality approach. (English summary) **2005i:90094**
— (*with* Grad, Sorin-Mihai; Wanka, Gert) Duality for optimization problems with entropy-like objective functions. (English summary) **2005m:90148**
Brezhneva, Olga (*with* Tret′yakov, Alexey) The p-th order necessary optimality conditions for inequality-constrained optimization problems. (English summary) (*see* **2005g:65008**)
Burachik, Regina Sandra (*with* Rubinov, Aleksandr M.) On the absence of duality gap for Lagrange-type functions. (English summary) **2005j:90095**
Calvete Fernández, Herminia Inmaculada (*with* Galé, Carmen) Note on: "Optimality conditions for linear fractional bilevel programs" [Indian J. Pure Appl. Math. **30** (1999), no. 4, 373–384; MR1695689] by N. Malhotra and S. R. Arora. (English summary)
Chen, Xiu Hong Optimality conditions and duality in vector-valued optimization. (English and Chinese summaries) **2005a:90177**
— Higher-order symmetric duality for a class of nondifferentiable programs. (English and Chinese summaries) **2005h:90153**
Ding, Zheng Shang (*with* Li, Hui Rong) Duality of a class of $(h, \varphi) - \rho_s$ invex programming. (Chinese. English and Chinese summaries)
Elbrolosy, M. E. *see* **Youness, Ebrahim A., 2005d:90137**
Galé, Carmen *see* **Calvete Fernández, Herminia Inmaculada**
Gao, David Yang Sufficient conditions and perfect duality in nonconvex minimization with inequality constraints. (English summary) **2005m:90149**
Gao, Yan[1] *see* **Zhao, Wenhui**
Glineur, F. (*with* Terlaky, Tamás) Conic formulation for l_p-norm optimization. (English summary) **2005h:90154**
Goh, C. J. (*with* Yang, Xiao Qi) ★ Duality in optimization and variational inequalities. **2005c:90109**
Grad, Sorin-Mihai *see* **Boţ, Radu Ioan et al., 2005i:90094** *and* **2005m:90148**
Han, Lili (*with* Li, Rong Sheng[2]) The solution concepts and the optimality condition for a kind of bilevel programming with multifollowers. (English summary)
Hoang Xuan Phu On a necessary optimality condition with invexity. (English summary) **2005h:90155**
Hou, Shui Hung *see* **Yang, Xin Min et al., 2005e:90152**
Huang, Xue Xiang (*with* Yang, Xiao Qi) Duality and exact penalization via a generalized augmented Lagrangian function. (English summary) **2005m:90150**
Husain, Z. *see* **Ahmad, Izhar, 2005k:90204**
Jefferson, Thomas R. *see* **Scott, Carlton H., 2005j:90096**
Jeyakumar, V. (*with* Lee, Gue Myung; Nguyen Dinh) New sequential Lagrange multiplier conditions characterizing optimality without constraint qualification for convex programs. (English summary) **2005a:90178**
Kim, Do Sang (*with* Noh, Kyung-A.) Symmetric dual nonlinear programming and matrix game equivalence. (English summary) **2005e:90151**
Klamroth, Kathrin (*with* Tind, Jørgen; Zust, Sibylle) Integer programming duality in multiple objective programming. (English summary) **2005c:90110**
Lee, Gue Myung *see* **Jeyakumar, V. et al., 2005a:90178**
Lee, Kwok-Hong *see* **Xuan, Zhao Cheng, 2005a:90179**
Li, Chong[1] (*with* Ng, Kung Fu) Constraint qualification, the strong CHIP, and best approximation with convex constraints in Banach spaces. (English summary) **2005c:90111**
Li, Hui Rong *see* **Ding, Zheng Shang**
Li, Rong Sheng[2] *see* **Han, Lili**
Li, Shi Zheng (*with* Wang, Jiang Lu) Optimal value of dual problem for nonconvex programming. (Chinese. English and Chinese summaries)
Li, Xing Si (*with* Pan, Shaohua[2]) Duality for entropy optimization and its applications. (English summary) **2005h:90156**
Li, Zhong Fan *see* **Wang, Cai Ling et al.**
Liu, Qing Huai *see* **Wang, Cai Ling et al.**
Maberly, E. D. (*with* Pierce, R. M.) An alternative approach to understanding second-order conditions for constrained optimization—Lagrange multipliers. (English summary)
(Malhotra, Neelam) *see* **Calvete Fernández, Herminia Inmaculada**
Martínez, José Mario *see* **Andreani, Roberto et al., 2005k:90205**
Mishra, Shashi K. Non-differentiable higher-order symmetric duality in mathematical programming with generalized invexity. (English summary) **2005m:90151**
Ng, Kung Fu *see* **Li, Chong[1], 2005c:90111**
Nguyen Dinh *see* **Jeyakumar, V. et al., 2005a:90178**
Noh, Kyung-A. *see* **Kim, Do Sang, 2005e:90151**
Ojha, Deo Brat Some results on symmetric duality of mathematical fractional programming with generalized F-convexity complex spaces. (English summary) **2005m:90152**
Ozdaglar, Asuman E. (*with* Bertsekas, Dimitri P.) The relation between pseudonormality and quasiregularity in constrained optimization. (English summary) **2005g:90164**
Pan, Shaohua[2] *see* **Li, Xing Si, 2005h:90156**
Pastor, Karel *see* **Bednařík, Dušan, 2005i:90093**
Pierce, R. M. *see* **Maberly, E. D.**
Ramachandran, D. (*with* Rüschendorf, Ludger) Assignment models for constrained marginals and restricted markets. (English summary) **2005b:90153**
Rubinov, Aleksandr M. *see* **Burachik, Regina Sandra, 2005j:90095**
Rüschendorf, Ludger *see* **Ramachandran, D., 2005b:90153**
Schuverdt, M. L. *see* **Andreani, Roberto et al., 2005k:90205**
Scott, Carlton H. (*with* Jefferson, Thomas R.) Duality for linear multiplicative programs. (English summary) **2005j:90096**
Stancu-Minasian, Ioan M. Optimality conditions for nonlinear programming with generalized locally arcwise connected functions. (English summary) **2005h:90157**
Sun, Churen A necessary and sufficient condition for a point to be a global maximizer of a constrained optimization. (English summary) **2005i:90095**
Sun, Yu Hua[2] (*with* Zhang, Yan[2]) Discussions of optimality for programming problems with B-(p, r)-invex functions. (Chinese. English and Chinese summaries)
Teo, Kok Lay *see* **Yang, Xin Min et al., 2005e:90152**
Terlaky, Tamás *see* **Glineur, F., 2005h:90154**
Tind, Jørgen *see* **Klamroth, Kathrin et al., 2005c:90110**
Tret′yakov, Alexey *see* **Brezhneva, Olga, (2005g:65008)**
Wang, Cai Ling (*with* Liu, Qing Huai; Li, Zhong Fan) Optimality conditions of nonsmooth γ-convex programming. (Chinese. English and Chinese summaries)
Wang, Jiang Lu *see* **Li, Shi Zheng**
Wang, Ming Zheng (*with* Xia, Zun Quan) On the scalarization and ε-duality of set-valued optimization with generalized cone-subconvexlike mappings. (Chinese. English and Chinese summaries)
Wanka, Gert *see* **Boţ, Radu Ioan et al., 2005i:90094** *and* **2005m:90148**
Xia, Zun Quan *see* **Wang, Ming Zheng**
Xu, Zengkun Constraint qualifications in a class of nondifferentiable mathematical programming problems. (English summary) **2005g:90165**
Xuan, Zhao Cheng (*with* Lee, Kwok-Hong) Surrogate duality based method for contact problems. (English summary) **2005a:90179**
Yang, Xiao Qi *see* **Goh, C. J., 2005c:90109**; **Yang, Xin Min et al., 2005e:90152**; **Zhou, Yu Ying[2], 2005h:90159** *and* **Huang, Xue Xiang, 2005m:90150**
Yang, Xin Min (*with* Yang, Xiao Qi; Teo, Kok Lay; Hou, Shui Hung) Second-order duality for nonlinear programming. (English summary) **2005e:90152**
— (*with* Yang, Xiao Qi; Teo, Kok Lay) Huard type second-order converse duality for nonlinear programming. (English summary)
Ye, Jane J. Nondifferentiable multiplier rules for optimization and bilevel optimization problems. (English summary) **2005h:90158**
Youness, Ebrahim A. Characterization of efficient solutions of multi-objective E-convex programming problems. (English summary) **2005a:90180**
— (*with* Elbrolosy, M. E.) Extension to necessary optimality conditions in complex programming. (English summary) **2005d:90137**
Zhang, Yan[2] *see* **Sun, Yu Hua[2]**
Zhao, Wenhui (*with* Gao, Yan[1]) Second-order optimality conditions for a constrained optimization. (English summary)
Zhou, Yu Ying[2] (*with* Yang, Xiao Qi) Some results about duality and exact penalization. (English summary) **2005h:90159**
Zust, Sibylle *see* **Klamroth, Kathrin et al., 2005c:90110**

Items with secondary classifications in 90C46

Aghezzaf, Brahim *see* **Hachimi, Mohamed, 2005c:90079** *and* **2005h:90116**
Ahmad, Izhar Sufficient optimality conditions for nondifferentiable fractional minimax programming. (English summary) **2005k:90164**
— (*with* Husain, Z.) On nondifferentiable second order symmetric duality in mathematical programming. (English summary) **2005c:90084**
— (*with* Husain, Z.) Nondifferentiable second order symmetric duality in multiobjective programming. (English summary) **2005m:90101**
— Second order symmetric duality in nondifferentiable multiobjective programming. (English summary)
— (*with* Gulati, T. R.) Mixed type duality for multiobjective variational problems with generalized (F, ρ)-convexity. (English summary) **2005k:90129**
Altangerel, L. (*with* Boţ, Radu Ioan; Wanka, Gert) Duality for convex partially separable optimization problems. (English summary) **2005d:90089**
Amaya, Jorge *see* **Gómez Fernández, Juan Alfredo et al., 2005m:90135**
An, Le Hai (*with* Pham Xuan Du; Duong Minh Duc; Tuoc, Phan Van) Lagrange multipliers for functions derivable along directions in a linear subspace. (English summary) **2005f:90152**
Antczak, Tadeusz Minimax programming under (p, r)-invexity. (English summary) **2005b:90154**
— An η-approximation approach for nonlinear mathematical programming problems involving invex functions. (English summary) **2005j:90062**
Antipin, I. P. (*with* Ishmukhametov, A. Z.; Karyukina, Yu. G.) A dual regularized method in convex finite-dimensional optimization problems. (Russian. Russian summary) **2005k:90103**
Baccari, A. On the classical necessary second-order optimality conditions. (English summary) **2005i:90066**
Bai, Fu-sheng *see* **Zhang, Lian Sheng, 2005g:90087**
Basaeva, E. K. Necessary conditions for the extremum in vector quasi-differentiable programs. (Russian. Russian summary) **2005e:90103**
Bătătorescu, Anton Sufficiency and duality in multiobjective programming involving (F, ρ)-convexity and support functions. (English summary) **2005d:90103**
— Generalized duality for multi-objective programming involving set-functions. (English summary)
Bauschke, Heinz H. (*with* Kruk, Serge G.) Reflection-projection method for convex feasibility problems with an obtuse cone. (English summary) **2005c:90067**
Bector, C. R. (*with* Chandra, Suresh; Vijay, Vidyottama) Duality in linear programming with fuzzy parameters and matrix games with fuzzy pay-offs. (English summary)
Bigi, Giancarlo (*with* Castellani, Marco) Uniqueness of KKT multipliers in multiobjective optimization. (English summary) **2005e:90104**
— Componentwise versus global approaches to nonsmooth multiobjective optimization. (English summary) **2005j:90073**
Boltyanskiĭ, Vladimir Grigor′evich Tent method, optimization and robustness. (English summary) **2005k:49001**
Bosch, Paul J. *see* **Gómez Fernández, Juan Alfredo et al., 2005m:90135**
Boţ, Radu Ioan (*with* Wanka, Gert) An analysis of some dual problems in multiobjective optimization. I, II. (English summary) **2005c:49072**
— *see also* **Altangerel, L. et al., 2005d:90089**
Boyd, Stephen P. (*with* Vandenberghe, Lieven) ★ Convex optimization. **2005d:90002**
— (*with* Diaconis, Persi; Xiao, Lin[3]) Fastest mixing Markov chain on a graph. (English summary) **2005j:90058**

— *see also* **Chiang, Mung**, 2005c:94028
Bui Trong Kien On the lower semicontinuity of optimal solution sets. (English summary) 2005m:90124
Cagri Saglam, H. *see* **Le Van, Cuong**, 2005d:91079
Cambini, Riccardo (*with* Carosi, Laura) Duality in multiobjective optimization problems with set constraints. (English summary) 2005i:90056
— (*with* Carosi, Laura; Schaible, Siegfried) Duality in fractional programming problems with set constraints. (English summary) 2005g:90149
Carosi, Laura *see* **Cambini, Riccardo et al.**, 2005g:90149 *and* 2005i:90056
Castañeda-Leyva, Netzahualcóyotl (*with* Hernández-Hernández, Daniel) Optimal portfolio management with consumption. (English summary) 2005e:93032
Castellani, Marco *see* **Bigi, Giancarlo**, 2005e:90104
Champion, Thierry Duality gap in convex programming. (English summary) 2005b:90093
Chandra, Suresh (*with* Dutta, Joydeep; Lalitha, C. S.) Regularity conditions and optimality in vector optimization. (English summary) 2005g:90120
— *see also* **Bector, C. R. et al.**
Cheng, Hao *see* **Wang, Yong[7] et al.**, 2005m:65014
Chentsov, A. G. On duality of different versions of the programmed iterations method. II. The sequential approach. (English summary) 2005a:49031
Chiang, Mung (*with* Boyd, Stephen P.) Geometric programming duals of channel capacity and rate distortion. (English summary) 2005c:94028
Dentcheva, Darinka (*with* Lai, Bogumila; Ruszczyński, Andrzej) Dual methods for probabilistic optimization problems. (English summary) 2005f:90077
— (*with* Römisch, Werner) Duality gaps in nonconvex stochastic optimization. (English summary) 2005f:90078
Diaconis, Persi *see* **Boyd, Stephen P. et al.**, 2005j:90058
Dos Santos, L. Batista (*with* Osuna-Gómez, R.; Rojas-Medar, Marko A.; Rufián-Lizana, A.) Preinvex functions and weak efficient solutions for some vectorial optimization problem in Banach spaces. (English summary) 2005g:90121
Đỗ Văn Lu'u (*with* Le Minh Tung) *B*-preinvexity criteria and applications. (English summary) 2005e:26014
— (*with* Nguyen Manh Hung) Invexity of constraint maps in mathematical programs. (English summary) 2005d:90104
Duong Minh Duc *see* **An, Le Hai et al.**, 2005f:90152
Dutta, Joydeep *see* **Chandra, Suresh et al.**, 2005g:90120
Fan, Jin-yan Generalized separation theorems and the Farkas' lemma. (English summary) 2005m:90173
Fang, Shu-Cherng *see* **Wang, Yong[7] et al.**, 2005m:65014
Feng, En Min *see* **Liu, San Ming**, 2005e:90111 *and* 2005g:90126
Flegel, M. L. (*with* Kanzow, Christian) Abadie-type constraint qualification for mathematical programs with equilibrium constraints. (English summary) 2005k:90170
Fukushima, Masao *see* **Lin, Gui-Hua**, 2005i:90080
Fulga, Cristinca On minimum norm problems. (English summary) 2005e:90083
Gadhi, N. Optimality conditions and duality theorems for nonlipschitz optimization problems. (English summary) 2005f:90104
— Necessary optimality conditions for Lipschitz multiobjective optimization problems. (English summary) 2005k:90134
Galewski, Marek A note on invex problems with nonnegative variable. (English summary) 2005i:90048
Gao, David Yang Nonconvex semi-linear problems and canonical duality solutions. (English summary) 2005b:47155
— Canonical duality theory and solutions to constrained nonconvex quadratic programming. (English summary) 2005h:90084
Gasimov, Rafail N. (*with* Rubinov, Aleksandr M.) On augmented Lagrangians for optimization problems with a single constraint. (English summary) 2005a:90150
— *see also* **Rubinov, Aleksandr M.**, 2005h:90126
Giorgi, Giorgio Some remarks on second-order optimality conditions. (English summary) 2005f:90118
— (*with* Jiménez, Bienvenido; Novo Sanjurjo, Vicente) On constraint qualifications in directionally differentiable multiobjective optimization problems. (English summary) 2005f:90106
— *see also* **Mishra, Shashi K. et al.**, 2005f:90107
Gómez Fernández, Juan Alfredo (*with* Bosch, Paul J.; Amaya, Jorge) Duality for inexact semi-infinite linear programming. (English summary) 2005m:90135
Gong, Xun-Hua Optimality conditions for Henig and globally proper efficient solutions with ordering cone has empty interior. (English summary) 2005m:90105
Govil, Misha G. (*with* Mehra, Aparna) ε-optimality for nonsmooth programming on a Hilbert space. (English summary) 2005g:90122
Gramatovici, Sorina On duality for a class of multiobjective continuous programming problems. (English summary) 2005g:90123
Griva, Igor *see* **Polyak, R.**, 2005f:90085
Guerra Vázquez, Francisco (*with* Orozco, José A.; Rückmann, Jan-J.) On constraint qualifications in semi-infinite optimization. (English summary) 2005k:90165
Gulati, T. R. *see* **Ahmad, Izhar**, 2005k:90129
Hachimi, Mohamed (*with* Aghezzaf, Brahim) Sufficiency and duality in differentiable multiobjective programming involving generalized type I functions. (English summary) 2005c:90079
— (*with* Aghezzaf, Brahim) Second order duality in multiobjective programming involving generalized type I functions. (English summary) 2005h:90116
Han, Hua *see* **He, Su Xiang**
He, Su Xiang (*with* Han, Hua) Further study on a dual algorithm. (English summary)
Hernández-Hernández, Daniel *see* **Castañeda-Leyva, Netzahualcóyotl**, 2005e:93032
Hou, Shui Hung *see* **Yang, Xin Min et al.**, 2005h:90128 *and* 2005j:90076
Huang, Xue Xiang *see* **Yang, Xiao Qi**, 2005f:90159
Huang, You Chu *see* **Yang, Wan Quan[2]**
Husain, Iqbal (*with* Jabeen, Z.) Mixed type symmetric and self duality for variational problems. (English summary)
— (*with* Jabeen, Z.) Mixed type duality for a programming problem containing support function. (English summary) 2005b:90129
— (*with* Jabeen, Z.) Second order duality for fractional programming with support functions. (English summary)
Husain, Z. *see* **Ahmad, Izhar**, 2005c:90084 *and* 2005m:90101
Ishmukhametov, A. Z. *see* **Antipin, I. P. et al.**, 2005k:90103
Ito, Kazufumi (*with* Kunisch, Karl) The primal-dual active set method for nonlinear optimal control problems with bilateral constraints. (English summary) 2005d:90092
Jabeen, Z. *see* **Husain, Iqbal**, 2005b:90129
Jefferson, Thomas R. *see* **Scott, Carlton H. et al.**, 2005g:90009
Jeyakumar, V. (*with* Lee, Gue Myung; Nguyen Dinh) Lagrange multiplier conditions characterizing the optimal solution sets of cone-constrained convex programs. (English summary) 2005i:90044
Jiménez, Bienvenido (*with* Novo Sanjurjo, Vicente) Second order necessary conditions in set constrained differentiable vector optimization. (English summary) 2005a:90140
— *see also* **Giorgi, Giorgio et al.**, 2005f:90106 *and* **Novo Sanjurjo, Vicente**, 2005g:90127
Jorge, Jesús M. On weakly efficient bounds for multiple objective programming problems. (English and Spanish summaries)
Jorjani, Soheila *see* **Scott, Carlton H. et al.**, 2005g:90009
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Karyukina, Yu. G. *see* **Antipin, I. P. et al.**, 2005k:90103
Khurana, Seema Symmetric duality in multiobjective programming involving generalized cone-index functions. (English summary) 2005j:90074
— *see also* **Lalitha, C. S. et al.**, 2005h:90119
Kim, Do Sang (*with* Noh, Kyung-A.; Kim, Myung Hee) Generalized symmetric duality for multiobjective invex programming. (English summary) 2005k:90136
— (*with* Schaible, Siegfried) Optimality and duality for invex nonsmooth multiobjective programming problems. (English summary) 2005a:90142
Kim, Moon Hee Relations between vector continuous-time program and vector variational-type inequality. (English summary) 2005e:90109
Kim, Myung Hee *see* **Kim, Do Sang et al.**, 2005k:90136
Kishore, Newal (*with* Singh, Vibha) Duality in multi-objective fractional programming involving generalized type-I invexity. (English summary) 2005e:90110
Komlósi, Sándor Generalized convexity and generalized derivatives. (English summary) (*see* 2005i:90003)
Konnov, Igor V. Dual-type methods for inverse optimization problems and their generalizations. (Russian) 2005j:49030
Kruger, A. Ya. Weak stationarity: eliminating the gap between necessary and sufficient conditions. (English summary) 2005j:49009
Kruk, Serge G. *see* **Bauschke, Heinz H.**, 2005c:90067
Kunisch, Karl *see* **Ito, Kazufumi**, 2005d:90092
Lai, Bogumila *see* **Dentcheva, Darinka et al.**, 2005f:90077
Lai, Hang-Chin *see* **Lee, Jin Chirng**, 2005k:90167
Lai, Kin Keung *see* **Mishra, Shashi K. et al.**, 2005f:90109; 2005g:90168; 2005h:90122; 2005h:90123 *and* 2005j:90075
Lalitha, C. S. (*with* Suneja, S. K.; Khurana, Seema) Symmetric duality involving invexity in multiobjective fractional programming. (English summary) 2005h:90119
— *see also* **Chandra, Suresh et al.**, 2005g:90120
Lavery, John E. *see* **Wang, Yong[7] et al.**, 2005m:65014
Le, An (*with* Le, Vy Khoi; Schmitt, Klaus) Lagrange multiplier rule for nonlinear inequalities. (English summary) 2005m:47131
Le, Vy Khoi *see* **Le, An et al.**, 2005m:47131
Lebedeva, T. T. (*with* Semenova, N. V.; Sergīenko, T. Ī.) Conditions for optimality and solvability in problems of linear vector optimization with a convex feasible set. (Ukrainian. English summary) 2005a:90144
Lee, Gue Myung *see* **Jeyakumar, V. et al.**, 2005i:90044
Lee, Haewon (*with* Pavel, Nicolae H.) Higher order optimality conditions and its applications. (English summary)
Lee, Heung Wing Joseph *see* **Li, Duan et al.**, 2005g:90103
Lee, Jin Chirng (*with* Lai, Hang-Chin) Parameter-free dual models for fractional programming with generalized invexity. (English summary) 2005k:90167
Lee, Kwok-Hong *see* **Xuan, Zhao Cheng**, (2005g:65008)
Le Minh Tung *see* **Đỗ Văn Lu'u**, 2005e:26014
Le Van, Cuong (*with* Cagri Saglam, H.) Optimal growth models and the Lagrange multiplier. (English summary) 2005d:91079
Li, Duan (*with* Wu, Zhi You; Wing, Heung; Lee, Heung Wing Joseph; Yang, Xin Min; Zhang, Lian Sheng) Identification of hidden convex minimization problems. (English summary) 2005g:90103
Li, Shi Zheng *see* **Yan, Zhaoxiang**, 2005j:90061
Lin, Gui-Hua (*with* Fukushima, Masao) A modified relaxation scheme for mathematical programs with complementarity constraints. (English summary) 2005i:90080
Liu, San Ming (*with* Feng, En Min) Second-order optimality conditions for multiobjective programming with set functions. (Chinese. English and Chinese summaries) 2005e:90111
— (*with* Feng, En Min) Another approach to multiobjective programming problems with F-convex functions. (English summary) 2005g:90126
Liu, San Yang *see* **Sheng, Bao Huai et al.**, 2005e:90114 *and* **Xu, Yihong**
Lu, Jian Xin[2] (*with* Qin, Zhilin) Sufficient conditions for circular-cone efficient solutions of multiobjective programming. (English and Chinese summaries)
Lu, Jie[2] *see* **Shi, Chenggen et al.**, 2005i:91035
Maeda, Takashi[2] Second-order conditions for efficiency in nonsmooth multiobjective optimization problems. (English summary) 2005e:90112
Magaril-Il'yaev, Georgiĭ Georgievich A generalized theorem on an inverse function, and extremal problems with constraints. (Russian. Russian summary) 2005k:49052
Marín, Ángel G. *see* **Salmerón, Javier**, 2005g:90104
Marsh, M. M. A note on generalized Farkas alternatives. (English summary) 2005g:90077
Martínez-Legaz, Juan Enrique Generalized convex duality and its economic applications. (English summary) (*see* 2005i:90003)
Mehra, Aparna *see* **Govil, Misha G.**, 2005g:90122
Meng, Fanwen (*with* Zhao, Gongyun) On second-order properties of the Moreau-Yosida regularization for constrained nonsmooth convex programs. (English summary) 2005m:90084
Mifflin, Robert (*with* Sagastizábal, Claudia) On the relation between $\mathcal{U}$-Hessians and

second-order epi-derivatives. (English summary) **2005m:49028**
— (*with* Sagastizábal, Claudia) Relating $\mathscr{U}$-Lagrangians to second-order epi-derivatives and proximal-tracks. (English summary) **2005m:90128**
Mishra, Shashi K. (*with* Rueda, Norma G.) On univexity-type nonlinear programming problems. (English summary) **2005f:90122**
— (*with* Rueda, Norma G.; Giorgi, Giorgio) Multiobjective programming under generalized type I univexity. (English summary) **2005f:90107**
— (*with* Wang, Shou Yang; Lai, Kin Keung) Complex minimax programming under generalized convexity. (English summary) **2005g:90168**
— (*with* Wang, Shou Yang; Lai, Kin Keung) Optimality and duality in nondifferentiable and multiobjective programming under generalized d-invexity. (English summary) **2005h:90122**
— (*with* Wang, Shou Yang; Lai, Kin Keung; Shi, Jianming) New generalized invexity for duality in multiobjective programming problems involving N-set functions. (English summary) **2005h:90123**
— (*with* Wang, Shou Yang; Lai, Kin Keung) Nondifferentiable multiobjective programming under generalized d-univexity. (English summary) **2005f:90109**
— (*with* Wang, Shou Yang) Second order symmetric duality for nonlinear multiobjective mixed integer programming. (English summary) **2005h:90075**
— (*with* Wang, Shou Yang; Lai, Kin Keung) Optimality and duality for multiple-objective optimization under generalized type I univexity. (English summary) **2005j:90075**
Mititelu, Ştefan Kuhn-Tucker conditions and Preda duality for multiobjective mathematical programs with n-set functions. (English and Romanian summaries) **2005c:90082**
— (*with* Preda, Vasile) Generalized Mond-Weir duality for multiobjective mathematical programs with n-set functions. (English summary) **2005d:90106**
Miyazaki, Koichi Dual analysis on hedging VaR of bond portfolio using options. (English summary) **2005a:91066**
Mordukhovich, Boris S. Necessary conditions in nonsmooth minimization via lower and upper subgradients. (English summary) **2005d:49026**
Motreanu, Dumitru (*with* Motreanu, Viorica V.) Nonsmooth variational problems in the limit case and duality. (English summary) **2005g:49020**
Motreanu, Viorica V. *see* **Motreanu, Dumitru**, **2005g:49020**
Murota, Kazuo (*with* Shioura, Akiyoshi) Conjugacy relationship between M-convex and L-convex functions in continuous variables. (English summary) **2005h:90108**
— (*with* Saito, Hiroo; Weismantel, Robert) Optimality criterion for a class of nonlinear integer programs. (English summary) **2005b:90079**
Nguyen Dinh *see* **Jeyakumar, V. et al.**, **2005i:90044**
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Niculescu, Cristian Optimality conditions and duality for multiobjective fractional programming problems involving ρ-arcwise connected functions. (English summary) **2005b:90140**
Noh, Kyung-A. *see* **Kim, Do Sang et al.**, **2005k:90136**
Novo Sanjurjo, Vicente (*with* Jiménez, Bienvenido) Lagrange multipliers in multiobjective optimization under mixed assumptions of Frechet and directional differentiability. (English and Spanish summaries) **2005g:90127**
— *see also* **Jiménez, Bienvenido**, **2005a:90140** *and* **Giorgi, Giorgio et al.**, **2005f:90106**
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Páles, Zsolt (*with* Zeidan, Vera) Critical and critical tangent cones in optimization problems. (English summary) **2005c:90088**
Pappalardo, Massimo On the image regularity condition. (English summary) **2005e:90122**
Patel, R. B. Optimality and duality for minimax fractional programming involving $(F - \rho)$-B-vex functions. (English summary) **2005b:90141**
Pavel, Nicolae H. *see* **Lee, Haewon**
Peng, Jianwen (*with* Yang, Xin Min) Duality for a class of nonsmooth multiobjective programming problems. (English summary) **2005k:90139**
Penot, Jean-Paul The relevance of convex analysis for the study of monotonicity. (English summary) **2005g:49026**
— (*with* Volle, Michel) Surrogate programming and multipliers in quasi-convex programming. (English summary) **2005e:49072**
Pham Xuan Du *see* **An, Le Hai et al.**, **2005f:90152**
Phan Thiên Thạch Dual preference in Leontief production problem and its extension. (English summary) **2005d:90042**
— Equilibrium prices and quasiconvex duality. (English summary) **2005g:90107**
Polyak, R. (*with* Griva, Igor) Primal-dual nonlinear rescaling method for convex optimization. (English summary) **2005f:90085**
Popa, Mariana *see* **Popa, Marin**, **2005b:90133** *and* **2005f:90108**
Popa, Marin (*with* Popa, Mariana) Sufficiency optimality conditions for multiobjective programming under generalized univexity type I with semidifferentiable functions. (English summary) **2005f:90108**
— (*with* Popa, Mariana) Mangasarian type higher-order duality for a class of nondifferentiable mathematical programming problems. (English summary) **2005b:90133**
Preda, Vasile *see* **Mititelu, Ştefan**, **2005d:90106**
Propoĭ, A. I. On the construction of a metric on the domination cone. II. (Russian. Russian summary) **2005h:90125**
Qin, Zhilin *see* **Lu, Jian Xin**[2]
Rabinovich, Ya. I. On the search for weakly effective solutions. (Russian. Russian summary) **2005c:90083**
Ramík, Jaroslav Duality in fuzzy linear programming: some new concepts and results. (English summary) **2005j:90115**
Richter, Marcel K. (*with* Wong, Kam-Chau) Concave utility on finite sets. (English summary) **2005g:91080**
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Rol′shchikov, V. E. Necessary conditions for an approximate constrained minimum. (Russian. Russian summary) **2005b:90136**
Römisch, Werner *see* **Dentcheva, Darinka**, **2005f:90078**
Ruan, G. Z. (*with* Wang, Shou Yang; Yamamoto, Yoshitsugu; Zhu, Shu-Shang) Optimality conditions and geometric properties of a linear multilevel programming problem with dominated objective functions. (English summary) **2005g:91063**
Rubinov, Aleksandr M. (*with* Gasimov, Rafail N.) Scalarization and nonlinear scalar duality for vector optimization with preferences that are not necessarily a pre-order relation. (English summary) **2005h:90126**
— *see also* **Gasimov, Rafail N.**, **2005a:90150**
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Rufián-Lizana, A. *see* **Dos Santos, L. Batista et al.**, **2005g:90121**
Ruszczyński, Andrzej (*with* Shapiro, Alexander) Optimality and duality in stochastic programming. (English summary) (*see* **2005f:90001**)
— *see also* **Dentcheva, Darinka et al.**, **2005f:90077**
Sadygov, Misreddin A. On extremum conditions in problems of mathematical programming. (English summary) **2005i:90069**
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Saito, Hiroo *see* **Murota, Kazuo et al.**, **2005b:90079**
Salmerón, Javier (*with* Marín, Ángel G.) A convex submodel with application to system design. (English summary) **2005g:90104**
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Schmitt, Klaus *see* **Le, An et al.**, **2005m:47131**
Scott, Carlton H. (*with* Jefferson, Thomas R.; Jorjani, Soheila) Duals for classical inventory models via generalized geometric programming. (English summary) **2005g:90009**
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Shapiro, Alexander (*with* Sun, Jie) Some properties of the augmented Lagrangian in cone constrained optimization. (English summary) **2005e:90123**
— *see also* **Ruszczyński, Andrzej**, (**2005f:90001**)
Sheng, Bao Huai (*with* Zhou, Song Ping; Liu, San Yang) Duality in vector optimization of set-valued maps with super efficient solutions. (Chinese. English and Chinese summaries) **2005e:90114**
Shi, Chenggen (*with* Lu, Jie[2]; Zhang, Guang-Quan) An extended Kuhn-Tucker approach for linear bilevel programming. (English summary) **2005i:91035**
Shi, Jianming *see* **Mishra, Shashi K. et al.**, **2005h:90123**
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— Duality for nonlinear fractional programming involving generalized locally arcwise connected functions. (English summary) **2005f:90131**
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Wang, Wei[9] (*with* Xu, Yi Fan) An asymptotic strong duality method for integer programming. (Chinese. English and Chinese summaries) **2005f:90075**
Wang, Xing Guo Optimality conditions for generalized fractional programming with (p, r)-invexity. (Chinese. English and Chinese summaries)
Wang, Yiju *see* **Zhou, Houchun**
Wang, Yong[7] (*with* Fang, Shu-Cherng; Lavery, John E.; Cheng, Hao) A geometric programming approach for bivariate cubic L_1 splines. (English summary) **2005m:65014**
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Wen, C. F. (*with* Wu, Soon-Yi) Duality theorems and algorithms for linear programming in measure spaces. (English summary) **2005h:90067**
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Wu, Hsien-Chung Duality theory in fuzzy optimization problems. (English summary) **2005h:90176**
— An (α, β)-optimal solution concept in fuzzy optimization problems. (English summary) **2005d:90153**
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Xu, Yi Fan *see* **Wang, Wei**[9], **2005f:90075**
Xu, Yihong (*with* Liu, San Yang) Kuhn-Tucker necessary conditions for (h, φ)-multiobjective optimization problems. (English summary)
Xuan, Zhao Cheng (*with* Lee, Kwok-Hong) Explicit surrogate dual formulation and algorithm for quadratic programming. (English summary) (*see* **2005g:65008**)
Yamamoto, Yoshitsugu *see* **Ruan, G. Z. et al.**, **2005g:91063**
Yan, Zhaoxiang (*with* Li, Shi Zheng) A new class of generalized convex programming. (English summary) **2005j:90061**

Yang, Qingzhi A new proof of the strong duality theorem for semidefinite programming. (English summary) **2005i:90041**
Yang, Wan Cai *see* **Zhang, Cheng[2]**
Yang, Wan Quan[2] (*with* Huang, You Chu) Necessary and sufficient conditions for αk-major efficient solutions in infinite-dimensional multiobjective programming. (Chinese. English and Chinese summaries)
Yang, Xiao Qi Second-order global optimality conditions for optimization problems. (English summary) **2005k:90109**
— (*with* Huang, Xue Xiang) Lower-order penalty methods for mathematical programs with complementarity constraints. (English summary) **2005f:90159**
— *see also* **Yang, Xin Min et al., 2005d:90113**; **2005h:90128**; **2005j:90076** *and* **2005k:90141**
Yang, Xin Min (*with* Yang, Xiao Qi; Teo, Kok Lay) Two properties of semistrictly preinvex functions. (English summary)
— (*with* Teo, Kok Lay; Yang, Xiao Qi) Higher-order generalized convexity and duality in nondifferentiable multiobjective mathematical programming. (English summary) **2005d:90113**
— (*with* Yang, Xiao Qi; Teo, Kok Lay) Criteria for generalized invex monotonicities. (English summary)
— (*with* Yang, Xiao Qi; Teo, Kok Lay; Hou, Shui Hung) Second order symmetric duality in non-differentiable multiobjective programming with a F-convexity. (English summary) **2005h:90128**
— (*with* Yang, Xiao Qi; Teo, Kok Lay; Hou, Shui Hung) Multiobjective second-order symmetric duality with F-convexity. (English summary) **2005j:90076**
— (*with* Yang, Xiao Qi; Teo, Kok Lay) Mixed type converse duality in multiobjective programming problems. (English summary) **2005k:90141**
— *see also* **Li, Duan et al., 2005g:90103** *and* **Peng, Jianwen, 2005k:90139**
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Zălinescu, Constantin *see* **Simons, Stephen, 2005k:49102**
Zalmai, G. J. Optimality conditions and duality models for minmax fractional subset programming problems with generalized $(\mathscr{F}, \alpha, \rho, \theta)$-$V$-convex functions. (English summary) **2005d:90125**
Zeidan, Vera *see* **Páles, Zsolt, 2005c:90088**
Zhang, Cheng[2] (*with* Yang, Wan Cai) Duality theory of fuzzy programming. (Chinese. English and Chinese summaries)
Zhang, Guang-Quan *see* **Shi, Chenggen et al., 2005i:91035**
Zhang, Jun[6] Dual scaling of comparison and reference stimuli in multi-dimensional psychological space. (English summary) **2005g:91164**
Zhang, Lian Sheng (*with* Bai, Fu-sheng) Asymptotic strong nonlinear duality for bounded integer programming. (Chinese. English and Chinese summaries) **2005g:90087**
— *see also* **Li, Duan et al., 2005g:90103**
Zhao, Gongyun *see* **Meng, Fanwen, 2005m:90084**
Zhou, Houchun (*with* Wang, Yiju) Optimality and mixed duality for nonsmooth multiobjective fractional programming. (English summary)
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Zhu, Shu-Shang *see* **Ruan, G. Z. et al., 2005g:91063**
Zouaki, H. Study of a parameterized system of equations and inequations in the neighborhood of a single point. Application to optimization. (English summary) **2005f:49055**

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Antczak, Tadeusz Minimax programming under (p, r)-invexity. (English summary) **2005b:90154**
Arenas Parra, M. Mar (*with* Bilbao Terol, Amelia; Pérez-Gladish, Blanca; Rodríguez-Uría, M. Victoria) Fuzzy extended lexicographic goal programming. (*see* **2005i:62007**)
Badriev, I. B. (*with* Zadvornov, O. A.) Construction and investigation of the convergence of iterative methods for solving variational problems with a nondifferentiable functional. (Russian. Russian summary) **2005a:90181**
Bianchi, Monica (*with* Schaible, Siegfried) Equilibrium problems under generalized convexity and generalized monotonicity. (English summary) **2005m:90153**
— (*with* Pini, Rita) Coercivity conditions for equilibrium problems. (English summary) **2005k:90206**
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Boratas Sensoy, Zehra *see* **Kas, Peter et al., 2005e:90154**
Chadli, Ouayl (*with* Schaible, Siegfried; Yao, Jen Chih) Regularized equilibrium problems with application to noncoercive hemivariational inequalities. (English summary) **2005e:90153**
Chen, Hua Fu (*with* Niu, Hai) A feasible trust region algorithm for nonlinear max-min problems. (Chinese. English and Chinese summaries)
Chen, Ye Hua (*with* Chen, Zhen Long) The maximum entropy function sequence for convex programming and its convergence. (Chinese. English and Chinese summaries) **2005j:90097**
Chen, Zhen Long *see* **Chen, Ye Hua, 2005j:90097**
Comellas, Francesc (*with* Yebra, J. Luis A.) Exact solutions for minimax optimization problems. **2005m:90154**
Conde, Eduardo An improved algorithm for selecting p items with uncertain returns according to the minmax-regret criterion. (English summary) **2005b:90155**
Ding, Xie Ping (*with* Park, Jong Yeoul) Generalized vector equilibrium problems in generalized convex spaces. (English summary) **2005b:90156**
— Iterative algorithm of solutions for generalized mixed implicit equilibrium-like problems. (English summary)
Gao, Yan[1] (*with* Li, Xuewen) Nonsmooth equations approach to a constrained minimax problem. (English summary) **2005m:90155**
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He, Su Xiang (*with* Han, Hua) Further study on a dual algorithm. (English summary)
— A dual algorithm for minimax problems. (English summary) **2005g:90166**
Hoàng Tuy Minimax theorems revisited. (English summary) **2005m:90156**
Idone, Giovanna (*with* Maugeri, Antonino) Equilibrium problems. (English summary) (*see* **2005m:90002**)
Kas, Peter (*with* Kassay, Gábor; Boratas Sensoy, Zehra) On generalized equilibrium points. (English summary) **2005e:90154**
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— (*with* Royset, J. O.; Womersley, Robert S.) Algorithms with adaptive smoothing for finite minimax problems. (English summary) **2005a:90182b**
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Stefanescu, Anton A theorem of the alternative and a two-function minimax theorem. **2005g:90169**
Tokuyama, Takeshi Minimax parametric optimization problems and multi-dimensional parametric searching. (English summary) (*see* **2005j:68008**)
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Xue, Yi A Newton-like algorithm for solving minimax optimization problems. (Chinese. English summary)
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Ahmad, Izhar Sufficient optimality conditions for nondifferentiable fractional minimax programming. (English summary) **2005k:90164**
— (*with* Husain, Z.) On nondifferentiable second order symmetric duality in mathematical programming. (English summary) **2005c:90084**
Ahmed, Shabbir[1] *see* **Shapiro, Alexander**, **2005i:90040**
Ahr, Dino (*with* Reinelt, Gerhard) New heuristics and lower bounds for the Min-Max k-Chinese postman problem. (English summary) (*see* **2005c:68002**)
Ait Mansour, Mohamed (*with* Riahi, Hassan) Sensitivity analysis for abstract equilibrium problems. (English summary) **2005k:90162**
Alber, Ya. I. (*with* Butnariu, Dan; Ryazantseva, I. P.) Regularization and resolution of monotone variational inequalities with operators given by hypomonotone approximations. (English summary) **2005m:49012**
Andersen, Kim Allan *see* **Riis, Morten**, **2005j:90052**
Aoyama, Koji A survey: an inverse of the Berge maximum theorem. (English summary)
Averbakh, Igor (*with* Lebedev, V. N.) On the complexity of minmax regret linear programming. (English summary) **2005f:90174**
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Balaj, Mircea KKM property and minimax inequalities. (English summary) **2005k:49015**
— Constant selections for concave-convex maps and minimax theorems. (English summary) **2005i:49006**
Balasubramanian, Parasuram (*with* Tewary, Ashish Kumar) Design of supply chains: unrealistic expectations on collaboration. (English summary)
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Benevieri, Pierluigi *see* **Villanacci, Antonio et al., 2005a:91001**
Bonnisseau, Jean-Marc (*with* Florig, Michael) Existence and optimality of oligopoly equilibria in linear exchange economies. (English summary) **2005b:91158**
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Chakravarti, Nilotpal *see* **Ramaswamy, Ramkumar et al., 2005j:90088**
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Chiang, Yungyen (*with* Chadli, Ouayl; Yao, Jen Chih) Generalized vector equilibrium problems with trifunctions. (English summary) **2005h:49017**
Daugavet, V. A. (*with* Tanygina, N. A.) The convergence rate of the leveling method for uniform Σ-approximation. (English summary) **2005g:41045**
Devanur, Nikhil R. The spending constraint model for market equilibrium: algorithmic, existence and uniqueness results. (English summary) **2005j:91033**
Ding, Xie Ping Existence and algorithm of solutions for nonlinear mixed variational-like inequalities in nonreflexive Banach spaces. (English summary) **2005g:49017**
— (*with* Yao, Jen Chih) Existence and algorithm of solutions for mixed quasi-variational-like inclusions in Banach spaces. (English summary) **2005k:49022**
Doerr, Benjamin Typical rounding problems. (English summary) **2005b:11119**
Dong, Jian Min *see* **Xing, Zhi Dong et al., 2005a:90097**

Epstein, Leah (*with* Tassa, Tamir) Approximation schemes for the min-max starting time problem. (English summary) **2005c:68294**
Ferrara, Massimiliano *see* **Caristi, Giuseppe**, **2005c:49011** *and* **Stefanescu, Maria V.**, **2005c:49014**
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Florig, Michael *see* **Bonnisseau, Jean-Marc**, **2005b:91158**
Frenk, Johannes B. G. (*with* Kassay, Gábor; Kolumbán, Iosif) On equivalent results in minimax theory. (English summary) **2005c:49012**
Glebov, N. I. On a generalization of the minimax assignment problem. (Russian. Russian summary) **2005j:90087**
Goebel, Rafal Convex optimal control problems with smooth Hamiltonians. (English summary) **2005m:49056**
Hanson, Morgan A. *see* **Husain, Iqbal et al.**, **2005e:90135**
Husain, Iqbal (*with* Hanson, Morgan A.; Jabeen, Z.) On nondifferentiable fractional minimax programming. (English summary) **2005e:90135**
Husain, Z. *see* **Ahmad, Izhar**, **2005c:90084**
Iusem, Alfredo N. (*with* Kallio, Markku) An interior point method for constrained saddle point problems. (English summary) **2005i:90097**
Jabeen, Z. *see* **Husain, Iqbal et al.**, **2005e:90135**
Jiang, Zhi Xia (*with* Liu, Yu Ning; Yang, Yi Hua) An algorithm for multiobjective programming with equilibrium constraints. (Chinese. English and Chinese summaries)
Jorge, Jesús M. A bilinear algorithm for optimizing a linear function over the efficient set of a multiple objective linear programming problem. (English summary) **2005m:90107**
Kallio, Markku *see* **Iusem, Alfredo N.**, **2005i:90097**
Kalmoun, El Mostafa *see* **Kimura, Kenji et al.**, (**2005b:90008**)
Kassay, Gábor *see* **Frenk, Johannes B. G. et al.**, **2005c:49012**
Kimura, Kenji (*with* Kalmoun, El Mostafa; Tanaka, Tamaki) On saddle points of multiobjective functions. (English summary) (*see* **2005b:90008**)
Kolumbán, Iosif *see* **Frenk, Johannes B. G. et al.**, **2005c:49012**
Kulpa, Władysław (*with* Szymański, Andrzej) Infimum principle. (English summary) **2005h:49016**
Lan, K. Q. New fixed-point theorems for two maps and applications to problems on sets with convex sections and minimax inequalities. (English summary) **2005b:47130**
Lebedev, V. N. *see* **Averbakh, Igor**, **2005f:90174**
Li, Xing Si (*with* Pan, Shaohua[2]) Duality for entropy optimization and its applications. (English summary) **2005h:90156**
Liang, Feng[1] (*with* Barron, Andrew) Exact minimax strategies for predictive density estimation, data compression, and model selection. (English summary) **2005f:94040**
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Liu, Yu Ning *see* **Jiang, Zhi Xia et al.**
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Orlin, James B. *see* **Ramaswamy, Ramkumar et al.**, **2005j:90088**
Orlov, Andrey Vassilievich (*with* Strekalovskiĭ, A. S.) On the search for equilibrium situations in bimatrix games. (Russian. Russian summary) **2005d:91001**
Outrata, Jiří V. A note on a class of equilibrium problems with equilibrium constraints. (English summary) **2005m:91049**
Pan, Shaohua[2] *see* **Li, Xing Si**, **2005h:90156**
Pankov, A. R. (*with* Platonov, E. N.; Semenikhin, K. V.) Minimax optimization of an investment portfolio using a quantile criterion. (Russian. Russian summary) **2005d:91058**
Park, Sehie New versions of the Fan-Browder fixed point theorem and existence of economic equilibria. **2005g:91142**
Patel, R. B. Optimality and duality for minimax fractional programming involving $(F - \rho)$-B-vex functions. (English summary) **2005b:90141**
Plastria, Frank (*with* Carrizosa, Emilio) Optimal location and design of a competitive facility. (English summary) **2005a:90090**
Platonov, E. N. *see* **Pankov, A. R. et al.**, **2005d:91058**
Polak, Elijah Smoothing techniques for the solution of finite and semi-infinite min-max-min problems. (English summary) **2005a:90165**
Postolică, Vasile (*with* Scarelli, Antonino; Venzi, Lorenzo) New proposals for the study of the equilibria in the fish wars using the splines in H-locally convex spaces and Pareto efficiency. (English summary)
Pratelli, Maurizio A minimax theorem without compactness hypothesis. (English summary) **2005k:49079**
Ramaswamy, Ramkumar (*with* Orlin, James B.; Chakravarti, Nilotpal) Sensitivity analysis for shortest path problems and maximum capacity path problems in undirected graphs. (English summary) **2005j:90088**
Reinelt, Gerhard *see* **Ahr, Dino**, (**2005c:68002**)
Riahi, Hassan *see* **Ait Mansour, Mohamed**, **2005k:90162**
Riis, Morten (*with* Andersen, Kim Allan) Applying the minimax criterion in stochastic recourse programs. (English summary) **2005j:90052**
Ryan, Michael J. Intervening duality strategic equivalence and nonconstant sum bimatrix games. (English summary) **2005k:91005**
Ryazantseva, I. P. *see* **Alber, Ya. I. et al.**, **2005m:49012**
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Semenikhin, K. V. *see* **Pankov, A. R. et al.**, **2005d:91058**
Shapiro, Alexander (*with* Ahmed, Shabbir[1]) On a class of minimax stochastic programs. (English summary) **2005i:90040**
Sheu, Ruey-Lin (*with* Lin, J. Y.) Solving continuous min-max problems by an iterative entropic regularization method. (English summary) **2005d:90129**
Stefanescu, Maria V. (*with* Ferrara, Massimiliano) A "quantitative" minimax theorem. **2005c:49014**
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Stukalov, A. S. *see* **Vasil'ev, F. P.**, **2005k:49108** *and* **2005m:91014**
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Tassa, Tamir *see* **Epstein, Leah**, **2005c:68294**
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Tô, Vu Dong (*with* Safavi-Naini, Reihaneh) On the maximal codes of length 3 with the 2-identifiable parent property. (English summary) **2005e:68193**
Tokuyama, Takeshi Minimax parametric optimization problems and multidimensional parametric searching. (English summary) **2005k:49080**
Vasil'ev, F. P. (*with* Stukalov, A. S.) Conditions for the approximation of equilibrium problems from the value of a functional. (Russian. Russian summary) **2005k:49108**
— (*with* Stukalov, A. S.) Approximation of an equilibrium problem with respect to the argument. (Russian. Russian summary) **2005m:91014**
Venzi, Lorenzo *see* **Postolică, Vasile et al.**
Villanacci, Antonio (*with* Carosi, Laura; Benevieri, Pierluigi; Battinelli, Andrea) ★ Differential topology and general equilibrium with complete and incomplete markets. **2005a:91001**
— (*with* Zenginobuz, E. Ünal) Existence and regularity of equilibria in a general equilibrium model with private provision of a public good. (English summary) **2005m:91131**
Wan, Zhong (*with* Zhou, Shu Zi) On the feasibility of mathematical programs with nonlinear complementarity constraints. (Chinese. English and Chinese summaries) **2005c:90101**
Wang, Ruo Peng *see* **Xing, Zhi Dong et al.**, **2005a:90097**
Wang, Zhi Qiang[1] (*with* Zhou, Jianxin) A local minimax-Newton method for finding multiple saddle points with symmetries. (English summary) **2005j:65052**
Wu, Y. N. (*with* Cheng, T. C. Edwin) Convergence results for weak efficiency in vector optimization problems with equilibrium constraints. (English summary) **2005m:90112**
Xing, Zhi Dong (*with* Wang, Ruo Peng; Dong, Jian Min) An entropy function method for a class of linear programs. (Chinese. English and Chinese summaries) **2005a:90097**
Xu, Hui Fu An MPCC approach for stochastic Stackelberg-Nash-Cournot equilibrium. (English summary) **2005j:91011**
Yamashita, Nobuo (*with* Luo, Zhi-Quan) A nonlinear complementarity approach to multiuser power control for digital subscriber lines. (English summary) **2005f:91043**
Yang, Qingzhi On variable-step relaxed projection algorithm for variational inequalities. (English summary) **2005h:49026**
Yang, Yi Hua *see* **Jiang, Zhi Xia et al.**
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Yin, Hong Xia An iterative method for general variational inequalities. (English summary) **2005k:90178**
Zabudskiĭ, G. G. An algorithm for solving a minimax problem of plant location on a plane with forbidden zones. (Russian. Russian summary) **2005e:90056**
— (*with* Filimonov, D. V.) Solution of a discrete minimax location problem on networks. (Russian)
Zalmai, G. J. Optimality conditions and duality models for minmax fractional optimal control problems containing arbitrary norms. (English summary) **2005b:49011**
— Optimality conditions and duality models for minmax fractional subset programming problems with generalized $(\mathscr{F}, \alpha, \rho, \theta)$-$V$-convex functions. (English summary) **2005d:90125**
Zaslavski, Alexander J. A generic result in minimax optimization. (English summary) **2005m:49011**
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— *see also* **Wang, Zhi Qiang**[1], **2005j:65052**
Zhou, Shu Zi *see* **Wan, Zhong**, **2005c:90101**
Zhukovskaya, L. V. (*with* Mikrin, E. A.) A new approach to the estimation of the effectiveness of control decisions under risk conditions in automatic control systems. (Russian. Russian summary) **2005d:90061**
— (*with* Mikrin, E. A.) A new approach to risk estimation in multicriterial automatic control systems. II. (Russian. Russian summary)
Zlateva, Nadia *see* **Thibault, Lionel**, **2005m:49030**

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Ahmad, Rais (*with* Siddiqi, Abul Hasan; Khan, Zubair) Proximal point algorithm for generalized multivalued nonlinear quasi-variational-like inclusions in Banach spaces. (English summary)
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Cho, Yeol Je (*with* Fang, Ya Ping; Huang, Nan Jing; Hwang, Ho Jin) Algorithms for systems of nonlinear variational inequalities. (English summary) **2005d:90138**
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Khan, Zubair *see* **Ahmad, Rais et al.**
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Kohsaka, Fumiaki (*with* Takahashi, Wataru) Iterative scheme for finding a common point of infinitely many convex sets in a Banach space. (English summary) **2005i:90096**
Krnić, I. (*with* Obradović, O.; Potapov, M. M.) On the accuracy of regularized solutions to quadratic minimization problems on a half-space, in case of a normally solvable operator. (English summary) **2005a:90183**
Laghdir, Mohamed (*with* Benkenza, N.; Najeh, N.) Duality in DC-constrained programming via duality in reverse convex programming. (English summary) **2005e:90155**
Marino, Giuseppe (*with* Xu, Hong-Kun) Convergence of generalized proximal point algorithms. (English summary) **2005h:90163**
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Potapov, M. M. *see* **Krnić, I. et al., 2005a:90183**
Rapcsák, Tamás *see* **Balogh, János et al., 2005g:90170**
Rhoades, B. E. Quadratic optimization of fixed points for a family of nonexpansive mappings in Hilbert space. **2005f:90153**
Sadygov, Misreddin A. Research on biconvex functions. (English summary) **2005h:90164**
Siddiqi, Abul Hasan *see* **Ahmad, Rais et al.**
Takahashi, Wataru *see* **Kohsaka, Fumiaki, 2005i:90096**
Tuoc, Phan Van *see* **An, Le Hai et al., 2005f:90152**
Wang, Wei[19] (*with* Zhou, Hai Yun; Chen, Dong Qing[1]) A note on a new approximate proximal point algorithm. (Chinese. English and Chinese summaries)
Xu, Hong-Kun *see* **Marino, Giuseppe, 2005h:90163**
Zhang, Shi Sheng (*with* Kim, Jong Kyu; Nam, Y. M.) Multivalued quasi-variational inclusions and multivalued accretive equations. (English summary)
Zhou, Hai Yun *see* **Wang, Wei[19] et al.**

Items with secondary classifications in 90C48

Adán, M. (*with* Novo Sanjurjo, Vicente) Proper efficiency in vector optimization on real linear spaces. (English summary) **2005e:90102**
Alvarez, Felipe Weak convergence of a relaxed and inertial hybrid projection-proximal point algorithm for maximal monotone operators in Hilbert space. (English summary) **2005f:49013**
Amaya, Jorge *see* **Gómez Fernández, Juan Alfredo et al., 2005m:90135**
Andramonov, Mikhail Numerical methods of abstract convex analysis.
Argyros, Ioannis K. Lower and upper bounds for the distance of a manifold to a nearby point. (English summary)
Arutyunov, Aram V. (*with* Izmailov, Alekseĭ Feridovich) Abnormal equality-constrained optimization problems: sensitivity theory. (English summary) **2005m:90122**
Barthélemy, Jean-Pierre (*with* Brucker, François; Osswald, Christophe) Combinatorial optimization and hierarchical classifications. (English summary) **2005h:90102**
Bauschke, Heinz H. (*with* Borwein, Jonathan Michael; Combettes, Patrick L.) Bregman monotone optimization algorithms. (English summary) **2005b:90091**
Bianchi, Monica (*with* Pini, Rita) Coercivity conditions for equilibrium problems. (English summary) **2005k:90206**
Borwein, Jonathan Michael (*with* Vanderwerff, Jon D.) Constructible convex sets. (English summary) **2005g:49028**
— *see also* **Bauschke, Heinz H. et al., 2005b:90091**
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Brucker, François *see* **Barthélemy, Jean-Pierre et al., 2005h:90102**
Cabot, Alexandre The steepest descent dynamical system with control. Applications to constrained minimization. (English summary) **2005f:49010**
Cambini, Riccardo (*with* Carosi, Laura) Coercivity concepts and recession function in constrained problems. (English summary) **2005b:90123**
Canuto, Claudio (*with* Urban, Karsten) Adaptive optimization of convex functionals in Banach spaces. (English summary) **2005m:90081**
Carosi, Laura *see* **Cambini, Riccardo, 2005b:90123**
Chadli, Ouayl (*with* Konnov, Igor V.; Yao, Jen Chih) Descent methods for equilibrium problems in a Banach space. (English summary) **2005m:49015**
Chentsov, A. G. Multivalued quasistrategies and the method of programmed iterations. (Russian. Russian summary) **2005h:91037**
Chernyaev, Yu. A. Two algorithms for solving a mathematical programming problem with preconvex constraints. (Russian. Russian summary) **2005j:90101**
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Constantin, Elena Higher order necessary and sufficient conditions for optimality. (English summary) **2005d:49044**
Crombez, Gilbert Finding common fixed points of a class of paracontractions. (English summary) **2005b:47123**
Dos Santos, L. Batista (*with* Osuna-Gómez, R.; Rojas-Medar, Marko A.; Rufián-Lizana, A.) Preinvex functions and weak efficient solutions for some vectorial optimization problem in Banach spaces. (English summary) **2005g:90121**
Dutta, Joydeep *see* **Rubinov, Aleksandr M., (2005i:90003)**
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Gadhi, N. Optimality conditions and duality theorems for nonlipschitz optimization problems. (English summary) **2005f:90104**
Galperin, Efim A. Balance set and Pareto solutions in linear spaces with application to ongoing optimal resource allocation, investment planning, production, and control problems with multiple objectives. (English summary) **2005f:90105**
Giannessi, Franco (*with* Mastroeni, Giandomenico; Uderzo, Amos) On necessary conditions for infinite-dimensional extremum problems. (English summary) **2005e:49030**
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Glimm, Tilmann (*with* Oliker, Vladimir) Optical design of two-reflector systems, the Monge-Kantorovich mass transfer problem and Fermat's principle. (English summary) **2005f:49095**
Glineur, F. (*with* Terlaky, Tamás) Conic formulation for l_p-norm optimization. (English summary) **2005h:90154**
Gómez Fernández, Juan Alfredo (*with* Bosch, Paul J.; Amaya, Jorge) Duality for inexact semi-infinite linear programming. (English summary) **2005m:90135**
Gong, Xun-Hua Optimality conditions for Henig and globally proper efficient solutions with ordering cone has empty interior. (English summary) **2005m:90105**
Göpfert, A. (*with* Tammer, Chr.; Zălinescu, Constantin) A new ABB theorem in normed vector spaces. (English summary) **2005e:90106**
Govil, Misha G. (*with* Mehra, Aparna) ε-optimality for multiobjective programming on a Banach space. (English summary) **2005d:90105**
— (*with* Mehra, Aparna) ε-optimality for nonsmooth programming on a Hilbert space. (English summary) **2005g:90122**
Guan, Hongyan *see* **Kang, Shin Min et al.**
Haberl, J. Maximization of generalized convex functionals in locally convex spaces. (English summary) **2005g:90138**
Hu, Yu-da *see* **Zhou, Xuan-wei, 2005b:90122**
Huang, Hui Global weak sharp minima and completeness of metric space. (English summary) **2005m:90125**
— Set-valued versions of Ky Fan's inequality with application to vector optimization. (English summary) **2005m:90106**
Huang, Nan Jing (*with* Li, Jun[9]) F-implicit complementarity problems in Banach spaces. (English summary) **2005e:90139**
Husain, Shamshad (*with* Khan, M. Firdosh; Salahuddin Ayouby) Strongly nonlinear mixed random variational inequality. (English summary)
Huynh Van Ngai (*with* Théra, Michel) Error bounds and implicit multifunction theorem in smooth Banach spaces and applications to optimization. (English summary) **2005f:49051**
Isac, George Nuclear cones in product spaces, Pareto efficiency and Ekeland-type variational principles in locally convex spaces. (English summary) **2005d:49033**
— *see also* **Zhu, Jiang[2] et al., 2005i:90064**
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Jeong, Jae Ug Generalized set-valued variational inclusions and resolvent equations in Banach spaces. (English summary) **2005c:49020**
Jeyakumar, V. (*with* Lee, Gue Myung; Nguyen Dinh) New sequential Lagrange multiplier conditions characterizing optimality without constraint qualification for convex programs. (English summary) **2005a:90178**
— (*with* Lee, Gue Myung; Nguyen Dinh) Lagrange multiplier conditions characterizing the optimal solution sets of cone-constrained convex programs. (English summary) **2005i:90044**
Jung, Jong Soo (*with* Cho, Yeol Je; Kang, Shin Min) Nonconvex minimization theorems for fixed point theorems in certain topological spaces. (English summary)
Kang, Shin Min (*with* Guan, Hongyan; Liu, Ze Qing; Shim, Soo Hak) Common coincidence point theorems in T_1 topological spaces with application in dynamic programming. (English summary)
— *see also* **Jung, Jong Soo et al.**
Kaplan, A. A. (*with* Tichatschke, R.) Extended auxiliary problem principle to variational inequalities involving multi-valued operators. (English summary) **2005b:49023**
Khan, M. Firdosh *see* **Husain, Shamshad et al.**
Kohsaka, Fumiaki (*with* Takahashi, Wataru) Minimization theorem in a Banach space and its applications. (English summary) **2005h:49014**
Komlósi, Sándor Generalized convexity and generalized derivatives. (English summary) (*see* **2005i:90003**)
Konnov, Igor V. *see* **Chadli, Ouayl et al., 2005m:49015**
Kruger, A. Ya. Weak stationarity: eliminating the gap between necessary and sufficient conditions. (English summary) **2005j:49009**
Kurdila, Andrew J. (*with* Zabarankin, Michael) ★ Convex functional analysis. **2005m:49003**
Kusraev, A. G. (*with* Kutateladze, S. S.) Kantorovich spaces and optimization. (English and Russian summaries) **2005j:90001**
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Lê Dũng Mu'u *see* **Pham Ngoc Anh, 2005i:49013**
Lee, Gue Myung *see* **Jeyakumar, V. et al., 2005a:90178** *and* **2005i:90044**
Lee, Haewon (*with* Pavel, Nicolae H.) Higher order optimality conditions and its applications. (English summary)
Lee, Mun Bae (*with* Park, Sung Ho[1]) Convergence of sequential parafirmly nonexpansive mappings in reflexive Banach spaces. (English summary) **2005g:90102**
Li, Cheng Lin *see* **Shao, Yuan Fu**
Li, Chun-fa (*with* Feng, En Min) Optimality condition for infinite-dimensional programming problem with operator and bound constraints. (English and Chinese summaries) **2005a:49050**
Li, Duan *see* **Rubinov, Aleksandr M. et al., 2005m:26019**
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Mehra, Aparna *see* **Govil, Misha G., 2005d:90105** *and* **2005g:90122**
Mishra, Shashi K. (*with* Giorgi, Giorgio; Wang, Shou Yang) Duality in vector optimization in Banach spaces with generalized convexity. (English summary) **2005h:90121**
Mititelu, Ştefan (*with* Preda, Vasile) Generalized Mond-Weir duality for multiobjective mathematical programs with n-set functions. (English summary) **2005d:90106**
Mordukhovich, Boris S. (*with* Rockafellar, R. Tyrrell) Preface [Variational analysis and its applications].
— Necessary conditions in nonsmooth minimization via lower and upper subgradients. (English summary) **2005d:49026**
Moudafi, Abdellatif A remark on the convergence of the Tikhonov regularization without monotonicity. (English summary) **2005a:49033**
Nanda, Sudarsan (*with* Pani, S.) A note on complementarity problem in Banach space. (English summary) **2005f:90139**
— Remark: "On a complementarity problem in Banach space" [Proc. Amer. Math. Soc. **121** (1994), no. 4, 1203–1205; MR1216822 (94j:47083)]. **2005g:90152**

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Pavel, Nicolae H. *see* **Lee, Haewon**
Peng, Jianwen (*with* Yang, Xin Min) On multivalued complementarity problems in Banach spaces. (English summary) **2005m:90133**
Penot, Jean-Paul Multiplicateurs, analyse marginale et pénalisation. [Multipliers, marginal analysis and penalization] **2005b:90098**
— Differentiability properties of optimal value functions. (English summary) **2005g:49051**
— Calmness and stability properties of marginal and performance functions. (English summary) **2005c:49038**
Pham Ngoc Anh (*with* Lê Dũng Mu'u) Coupling the Banach contraction mapping principle and the proximal point algorithm for solving monotone variational inequalities. (English summary) **2005i:49013**
Pini, Rita *see* **Bianchi, Monica**, 2005k:90206
Postolică, Vasile Vectorial optimization programs with multiple solutions. (English summary) **2005g:90128**
— Efficiency and Choquet boundaries in separated locally convex spaces. (English summary) **2005m:90110**
Potapov, M. M. On estimates for the accuracy of regularization methods in quadratic minimization problems on a half-plane. (Russian. Russian summary) **2005b:90085**
Preda, Vasile *see* **Mititelu, Ştefan**, 2005d:90106
Prempeh, E. Fixed point theorems for a finite family of asymptotically nonexpansive mappings. (English summary) **2005m:47117**
Qiu, Jing Hui σ-semi-convexity and Ekeland's variational principle. (Chinese. English and Chinese summaries) **2005c:49047**
Rassias, Themistocles M. On the stability of minimum points. **2005a:90156**
Rockafellar, R. Tyrrell *see* **Mordukhovich, Boris S.**
Rojas-Medar, Marko A. *see* **Dos Santos, L. Batista et al.**, 2005g:90121
Rubinov, Aleksandr M. (*with* Dutta, Joydeep) Abstract convexity. (English summary) (*see* **2005i:90003**)
— (*with* Wu, Zhi You; Li, Duan) Hidden abstract convex functions. (English summary) **2005m:26019**
Rufián-Lizana, A. *see* **Dos Santos, L. Batista et al.**, 2005g:90121
Ryazantseva, I. P. Some second-order regularization methods for convex extremal problems in a Banach space. (Russian. Russian summary) **2005c:90069**
Salahuddin Ayouby *see* **Husain, Shamshad et al.**
Scheiber, Ernest (*with* Lupu, Mircea) On the solution of some maximization problems based on a Jensen inequality. (English summary) **2005g:49006**
Shamseddine, K. (*with* Zeidan, Vera) Constrained second order optimization on non-Archimedean fields. (English summary) **2005h:49015**
Shao, Yuan Fu (*with* Li, Cheng Lin) Subdifferential rule for the sum of functions in Hilbert spaces and its applications. (Chinese. English and Chinese summaries)
Shim, Soo Hak *see* **Kang, Shin Min et al.**
Takahashi, Wataru *see* **Kohsaka, Fumiaki**, 2005h:49014
Tammer, Chr. *see* **Göpfert, A. et al.**, 2005e:90106
Tauts, Ants Optimization problems with points of discontinuity and discrete arguments. (English and Estonian summaries)
Terlaky, Tamás *see* **Glineur, F.**, 2005h:90154
Théra, Michel *see* **Huynh Van Ngai**, 2005f:49051
Tichatschke, R. *see* **Kaplan, A. A.**, 2005b:49023
Tikhomirov, Vladimir Mikhaĭlovich Specific problems and general extremum theory. (English summary) **2005m:49042**
Uderzo, Amos *see* **Giannessi, Franco et al.**, 2005e:49030
Urban, Karsten *see* **Canuto, Claudio**, 2005m:90081
Vanderwerff, Jon D. *see* **Borwein, Jonathan Michael**, 2005g:49028
Van Goethem, Nicolas Variational problems on classes of convex domains. (English summary) **2005h:49011**
Wang, Shou Yang *see* **Mishra, Shashi K. et al.**, 2005h:90121
Wen, C. F. (*with* Wu, Soon-Yi) Duality theorems and algorithms for linear programming in measure spaces. (English summary) **2005h:90067**
Winkler, Kristin Geoffrion proper efficiency in an infinite dimensional space. (English summary) **2005e:90116**
Wu, Soon-Yi *see* **Wen, C. F.**, 2005h:90067
Wu, Zhi You *see* **Rubinov, Aleksandr M. et al.**, 2005m:26019
Xu, Yihong (*with* Zhu, Chuan Xi) On super efficiency in set-valued optimisation in locally convex spaces. (English summary) **2005k:90140**
Yang, Xin Min *see* **Peng, Jianwen**, 2005m:90133
Yao, Jen Chih *see* **Chadli, Ouayl et al.**, 2005m:49015
Zabarankin, Michael *see* **Kurdila, Andrew J.**, 2005m:49003
Zălinescu, Constantin *see* **Göpfert, A. et al.**, 2005e:90106
Zeidan, Vera *see* **Shamseddine, K.**, 2005h:49015
Zeng, Liu Chuan On the convergence analysis of algorithms for generalized set-valued variational inclusions in Banach spaces. (English summary) **2005b:49046**
Zhao, Dun *see* **Zhu, Jiang**[2] **et al.**, 2005i:90064
Zheng, Xi Yin (*with* Ng, Kung Fu) Metric regularity and constraint qualifications for convex inequalities on Banach spaces. (English summary) **2005f:90087**
— (*with* Ng, Kung Fu) Hoffman's least error bounds for systems of linear inequalities. (English summary) **2005i:90033**
Zhou, Xuan-wei (*with* Hu, Yu-da) Connectedness of cone-efficient solution set for cone-quasiconvex multiobjective programming in locally convex spaces. (English summary) **2005b:90122**
Zhu, Chuan Xi *see* **Xu, Yihong**, 2005k:90140
Zhu, Jiang[2] (*with* Isac, George; Zhao, Dun) Pareto optimization in topological vector spaces. **2005i:90064**
Zhu, Qiji J. Nonconvex separation theorem for multifunctions, subdifferential calculus and applications. (English summary) **2005c:49061**

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Items with secondary classifications in 90C49

Altannar, Ch. (*with* Barsbold, B.; Enkhbat, Rentsen) A global method for solving the convex quadratic maximization problem. (English summary)
Balas, Egon (*with* Schmieta, Stefan; Wallace, Christopher Dewagne) Pivot and shift—a mixed integer programming heuristic. (English summary) **2005i:90036**
Barsbold, B. *see* **Altannar, Ch. et al.**
Enkhbat, Rentsen *see* **Altannar, Ch. et al.**
Euler, Reinhardt A bipartite graph simplex method. (English summary) (*see* **2005d:90005**)
Huang, Ying Quan (*with* Zhao, Ke Quan) E-convex sets, E-convex functions and semi-E-convex functions. (Chinese. English and Chinese summaries)
Li, Wei[14] A note on two direct methods in linear programming. (English summary) **2005b:90068**
Santos-Palomo, Ángel The sagitta method for solving linear programs. (English summary) **2005c:90046**
Schmieta, Stefan *see* **Balas, Egon et al.**, 2005i:90036
Wallace, Christopher Dewagne *see* **Balas, Egon et al.**, 2005i:90036
Zhao, Ke Quan *see* **Huang, Ying Quan**

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Amini, Keyvan (*with* Peyghami, M. R.) An interior point method for linear programming based on a class of kernel functions. (English summary) **2005m:90157**
Anand, Christopher Kumar (*with* Terlaky, Tamás; Wang, Bixiang) Rapid, embeddable design method for spiral magnetic resonance image reconstruction resampling kernels. (English summary) **2005g:90171**
Arana, R. *see* **Faybusovich, Leonid**, 2005d:90139
Bergamaschi, Luca (*with* Gondzio, Jacek; Zilli, Giovanni) Preconditioning indefinite systems in interior point methods for optimization. (English summary) **2005f:90154**
Byrd, Richard H. (*with* Nocedal, Jorge; Waltz, Richard A.) Feasible interior methods using slacks for nonlinear optimization. (English summary) **2005c:90112**
Chavent, Guy Curvature steps and geodesic moves for nonlinear least squares descent algorithms. (English summary) **2005a:90185**
Dikin, I. I. Solution of systems of equalities and inequalities by the interior point method. (Russian. English and Ukrainian summaries) **2005m:90158**
El-Alem, M. M. (*with* Ibrahim, Sobhy El-sayed; El-Sobky, B.) Local convergence of the interior-point Newton method for general nonlinear programming. (English summary) **2005c:90113**
Elhedhli, Samir (*with* Goffin, Jean-Louis) The integration of an interior-point cutting plane method within a branch-and-price algorithm. (English summary) **2005a:90186**
El-Sobky, B. *see* **El-Alem, M. M. et al.**, 2005c:90113
Faybusovich, Leonid (*with* Arana, R.) A long-step primal-dual algorithm for the symmetric programming problem. (English summary) **2005d:90139**
— (*with* Gekhtman, Michael) Calculation of universal barrier functions for cones generated by Chebyshev systems over finite sets. (English summary) **2005k:90207**
Fei, Pu Sheng *see* **Huang, Hui et al.**
Frangioni, Antonio (*with* Gentile, Claudio) New preconditioners for KKT systems of network flow problems. (English summary) **2005h:90165**
Gao, Yue Lin *see* **Yang, Yue Ting et al.**
Gekhtman, Michael *see* **Faybusovich, Leonid**, 2005k:90207
Gentile, Claudio *see* **Frangioni, Antonio**, 2005h:90165
Gertz, E. Michael (*with* Nocedal, Jorge; Sartenaer, A.) A starting point strategy for nonlinear interior methods. (English summary) **2005m:90159**
Goffin, Jean-Louis *see* **Elhedhli, Samir**, 2005a:90186
Goldfarb, D. (*with* Scheinberg, K.) A product-form Cholesky factorization method for handling dense columns in interior point methods for linear programming. (English summary) **2005b:90157**
Gondzio, Jacek *see* **Bergamaschi, Luca et al.**, 2005f:90154
Holder, Allen Simultaneous data perturbations and analytic center convergence. (English summary) **2005e:90156**
Huang, Hui (*with* Fei, Pu Sheng; Yuan, Yuan) A primal-dual infeasible-interior-point algorithm for multiple objective linear programming problems. (English summary)
Huang, Si-ming Expected number of iterations of interior-point algorithms for linear programming. (English summary) **2005k:90208**
Ibrahim, Sobhy El-sayed *see* **El-Alem, M. M. et al.**, 2005c:90113
Iusem, Alfredo N. (*with* Kallio, Markku) An interior point method for constrained saddle point problems. (English summary) **2005i:90097**
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Kovačević-Vujčić, Vera V. *see* **Stanimirović, Predrag S. et al.**, 2005k:90209
Kuo, Yu-Ju (*with* Mittelmann, Hans D.) Interior point methods for second-order cone programming and OR applications. (English summary) **2005e:90157**
Li, Xing Si *see* **Pan, Shaohua**[2], 2005c:90114
Litvinchev, Igor S. A circular cone relaxation primal interior point algorithm for LP. (English summary) **2005a:90187**
Liu, Xinwei (*with* Sun, Jie) A robust primal-dual interior-point algorithm for nonlinear programs. (English summary) **2005j:90098**
Lukšan, Ladislav (*with* Matonoha, Ctirad; Vlček, Jan) Interior-point method for non-linear non-convex optimization. (English summary) **2005b:90158**
Matonoha, Ctirad *see* **Lukšan, Ladislav et al.**, 2005b:90158
Mittelmann, Hans D. *see* **Kuo, Yu-Ju**, 2005e:90157
Monteiro, Renato D. C. (*with* O'Neal, Jerome W.; Tsuchiya, Takashi[1]) Uniform boundedness of a preconditioned normal matrix used in interior-point methods. (English summary) **2005h:90166**

Nguyen, Van Hien *see* **Nguyen Thi Thu Van et al., 2005k:90210**

Nguyen Thi Thu Van (*with* Nguyen, Van Hien; Strodiot, Jean-Jacques) A bundle interior proximal method for solving convex minimization problems. (English summary) **2005k:90210**

Nocedal, Jorge *see* **Byrd, Richard H. et al., 2005c:90112** *and* **Gertz, E. Michael et al., 2005m:90159**

O'Neal, Jerome W. *see* **Monteiro, Renato D. C. et al., 2005h:90166**

Pan, Shaohua[2] (*with* Li, Xing Si) A self-adjusting primal-dual interior point method for linear programs. (English summary) **2005c:90114**

Peyghami, M. R. *see* **Amini, Keyvan, 2005m:90157**

Popescu, Elena Use of the interior-point method for correcting and solving inconsistent linear inequality systems. (English summary)

Potra, Florian A. The Kantorovich Theorem and interior point methods. (English summary) **2005j:90099**

Preiß, Martin (*with* Stoer, Josef) Analysis of infeasible-interior-point paths and high-order methods for solving SDLCP's. (English summary) **2005i:90098**

— (*with* Stoer, Josef) Analysis of infeasible-interior-point paths arising with semidefinite linear complementarity problems. (English summary) **2005a:90188**

Salahi, Maziar (*with* Sotirov, Renata; Terlaky, Tamás) On self-regular IPMs. (English summary) **2005m:90160**

Sartenaer, A. *see* **Gertz, E. Michael et al., 2005m:90159**

Scheinberg, K. *see* **Goldfarb, D., 2005b:90157**

Sotirov, Renata *see* **Salahi, Maziar et al., 2005m:90160**

Stanimirović, Predrag S. (*with* Stojković, Nebojša V.; Kovačević-Vujčić, Vera V.) Stabilization of Mehrotra's primal-dual algorithm and its implementation. (English summary) **2005k:90209**

Stetsyuk, P. I. An approximate ellipsoid method. (Russian. English and Ukrainian summaries)

Stoer, Josef *see* **Preiß, Martin, 2005a:90188** *and* **2005i:90098**

Stojković, Nebojša V. *see* **Stanimirović, Predrag S. et al., 2005k:90209**

Strodiot, Jean-Jacques *see* **Nguyen Thi Thu Van et al., 2005k:90210**

Sun, Jie *see* **Liu, Xinwei, 2005j:90098**

Terlaky, Tamás *see* **Anand, Christopher Kumar et al., 2005g:90171** *and* **Salahi, Maziar et al., 2005m:90160**

Tsuchiya, Takashi[1] *see* **Monteiro, Renato D. C. et al., 2005h:90166**

Vlček, Jan *see* **Lukšan, Ladislav et al., 2005b:90158**

Waltz, Richard A. *see* **Byrd, Richard H. et al., 2005c:90112**

Wang, Bixiang *see* **Anand, Christopher Kumar et al., 2005g:90171**

Wang, Jun Ling[1] A new infeasible-interior-point algorithm for separable convex quadratic programming. (Chinese. English and Chinese summaries) **2005a:90189**

Wright, Margaret H. The interior-point revolution in optimization: history, recent developments, and lasting consequences. (English summary) **2005j:90100**

Xu, Cheng Xian *see* **Yang, Yue Ting et al.**

Yang, Yue Ting (*with* Xu, Cheng Xian; Gao, Yue Lin) A limited memory method for large scale problems. (Chinese. English and Chinese summaries)

Yuan, Yuan *see* **Huang, Hui et al.**

Zhu, De-tong An affine scaling interior point backtracking algorithm for nonlinear constrained optimisation. (English summary) **2005e:90158**

Zhu, Zhi Bin A feasible interior-point algorithm for nonconvex nonlinear programming. (English summary) **2005i:90099**

Zilli, Giovanni *see* **Bergamaschi, Luca et al., 2005f:90154**

Items with secondary classifications in 90C51

Absil, P.-A. (*with* Sepulchre, Rodolphe) Continuous dynamical systems that realize discrete optimization on the hypercube. (English summary) **2005b:90075**

Achache, Mohamed A numerical implementation of an infeasible interior point algorithm for linear complementarity problems. (English summary) **2005a:90158**

Ai, Wen-bao An optimal method for adjusting the centering parameter in the wide-neighborhood primal-dual interior-point algorithm for linear programming. (English summary) **2005b:90067**

— Neighborhood-following algorithms for linear programming. (English summary) **2005k:90068**

Aichholzer, Oswin (*with* Bremner, David; Demaine, Erik D.; Hurtado, Ferran; Kranakis, Evangelos; Krasser, Hannes; Ramaswami, Suneeta; Sethia, Saurabh; Urrutia, Jorge) Playing with triangulations. (English summary) **2005g:91059**

Attouch, H. (*with* Teboulle, Marc) Regularized Lotka-Volterra dynamical system as continuous proximal-like method in optimization. (English summary) **2005f:90112**

Auslender, A. (*with* Teboulle, Marc) Interior gradient and epsilon-subgradient descent methods for constrained convex minimization. (English summary) **2005c:90066**

Bai, Yan Qin (*with* Roos, Cornelis) A polynomial-time algorithm for linear optimization based on a new simple kernel function. (English summary) **2005a:90091**

— (*with* El Ghami, M.; Roos, Cornelis) A comparative study of kernel functions for primal-dual interior-point algorithms in linear optimization. (English summary) **2005h:90065**

Balakrishnan, V. Ragu *see* **Vandenberghe, Lieven et al., 2005m:90080**

Barnes, Earl R. (*with* Moretti, Antonio Carlos) Some results on centers of polytopes. (English summary) **2005k:90069**

Bellavia, Stefania (*with* Pieraccini, Sandra) Convergence analysis of an inexact infeasible interior point method for semidefinite programming. (English summary) **2005h:90087**

Bompard, Etorre *see* **Jiang, Chuanwen**

Boyd, Stephen P. (*with* Vandenberghe, Lieven) ★ Convex optimization. **2005d:90002**

Bremner, David *see* **Aichholzer, Oswin et al., 2005g:91059**

Brito, Alejandro E. (*with* Villalobos, Cristina; Cabrera, Sergio D.) Interior-point methods in l_1 optimal sparse representation algorithms for harmonic retrieval. (English summary) **2005i:94003**

Cabrera, Sergio D. *see* **Brito, Alejandro E. et al., 2005i:94003**

Cardia, Marli *see* **Gonzaga, Clóvis C., 2005c:90044**

Chen, Hua Fu *see* **Niu, Hai**

Cheung, Dennis (*with* Cucker, Felipe; Ye, Yinyu) Linear programming and condition numbers under the real number computation model. **2005f:90063**

Chi, Xiao Ni *see* **Wang, Shu Hua et al.**

Cucker, Felipe *see* **Cheung, Dennis et al., 2005f:90063**

Demaine, Erik D. *see* **Aichholzer, Oswin et al., 2005g:91059**

Dong, Jian Min *see* **Xing, Zhi Dong et al., 2005a:90097**

Elber, Ron *see* **Wagner, Michael et al.**

El Ghami, M. *see* **Bai, Yan Qin et al., 2005h:90065**

Ezhov, Vladimir V. (*with* Filar, Jerzy A.; Gondzio, Jacek) An interior point heuristic for the Hamiltonian cycle problem via Markov decision processes. (English summary) **2005k:90202**

Fampa, M. H. C. (*with* Maculan, Nelson) Using a conic formulation for finding Steiner minimal trees. (English summary) **2005e:90097**

Feng, En Min *see* **Li, Chun-fa, 2005a:49050**

Fernandes, Edite M. G. P. *see* **Vaz, A. Ismael F. et al., 2005b:90145**

Filar, Jerzy A. *see* **Ezhov, Vladimir V. et al., 2005k:90202**

Filatov, A. Yu. *see* **Zorkal'tsev, V. I., 2005k:65109**

Francisco, J. B. (*with* Krejić, N.; Martínez, José Mario) An interior-point method for solving box-constrained underdetermined nonlinear systems. (English summary) **2005k:65097**

Freund, Robert M. *see* **Sun, Peng, 2005f:90067**

Glineur, F. (*with* Terlaky, Tamás) Conic formulation for l_p-norm optimization. (English summary) **2005h:90154**

Gol'shteĭn, E. G. The use of logarithmic barriers for solving variational inequalities. (Russian. Russian summary) **2005k:65112**

Gomes, M. Paula S. F. *see* **Vaz, A. Ismael F. et al., 2005b:90145**

Gondzio, Jacek *see* **Ezhov, Vladimir V. et al., 2005k:90202**

Gonzaga, Clóvis C. (*with* Cardia, Marli) Properties of the central points in linear programming problems. (English summary) **2005c:90044**

Griva, Igor Numerical experiments with an interior-exterior point method for nonlinear programming. (English summary)

— *see also* **Polyak, R., 2005f:90085**

Hadigheh, Alireza Ghafari (*with* Terlaky, Tamás) Sensitivity analysis in convex quadratic optimization: invariant support set interval. (English summary) **2005i:90075**

Halická, M. (*with* de Klerk, Etienne; Roos, Cornelis) Limiting behavior of the central path in semidefinite optimization. (English summary) **2005m:90078**

Hansson, Anders *see* **Vandenberghe, Lieven et al., 2005m:90080**

Huang, Chong Chao *see* **Jiang, Yan et al., 2005f:90064**

Hurtado, Ferran *see* **Aichholzer, Oswin et al., 2005g:91059**

Idriss, Ismail I. (*with* Walter, Wolfgang V.) Validated infeasible interior-point predictor-corrector methods for linear programming. (English summary)

Jiang, Chuanwen (*with* Bompard, Etorre) A hybrid method of chaotic particle swarm optimization and linear interior for reactive power optimisation. (English summary)

Jiang, Yan (*with* Huang, Chong Chao; Yu, Qian) An inexact infeasible-interior-point algorithm for box linear programming problems. (Chinese. English and Chinese summaries) **2005f:90064**

Kadiri, Abderrahim (*with* Yassine, Adnan) Une procédure de purification pour les problèmes de complémentarité linéaire, monotones. (English and French summaries) [A purification method for monotone linear complementarity problems] **2005e:65079**

de Klerk, Etienne ★ Aspects of semidefinite programming. **2005a:90001**

— *see also* **Halická, M. et al., 2005m:90078**

Kranakis, Evangelos *see* **Aichholzer, Oswin et al., 2005g:91059**

Krasser, Hannes *see* **Aichholzer, Oswin et al., 2005g:91059**

Krejić, N. *see* **Francisco, J. B. et al., 2005k:65097**

Li, Chun-fa (*with* Feng, En Min) Optimality condition for infinite-dimensional programming problem with operator and bound constraints. (English and Chinese summaries) **2005a:49050**

Lim, Sungmook (*with* Park, Soondal) A new admissible pivot method for linear programming. (English summary) **2005j:90045**

Lin, J. Y. *see* **Sheu, Ruey-Lin, 2005d:90129**

Liu, San Yang *see* **Wang, Shu Hua et al.**

Liu, Xinwei (*with* Sun, Jie) A new decomposition technique in solving multistage stochastic linear programs by infeasible interior point methods. (English summary) **2005a:90114**

— (*with* Sun, Jie) Generalized stationary points and an interior-point method for mathematical programs with equilibrium constraints. (English summary) **2005e:90143**

Maculan, Nelson *see* **Fampa, M. H. C., 2005e:90097**

Martínez, José Mario *see* **Francisco, J. B. et al., 2005k:65097**

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Moretti, Antonio Carlos *see* **Barnes, Earl R., 2005k:90069**

Mu, Xue Wen *see* **Wang, Shu Hua et al.**

Niu, Hai (*with* Chen, Hua Fu) A generalized gradient projection method for linear programming. (Chinese. English and Chinese summaries)

Nurminskiĭ, E. A. A parallel method of projection onto the convex hull of a family of sets. (Russian) **2005h:90095**

Oliveira, Aurelio R. L. (*with* Sorensen, D. C.) A new class of preconditioners for large-scale linear systems from interior point methods for linear programming. (English summary) **2005h:65053**

Park, Soondal *see* **Lim, Sungmook, 2005j:90045**

Pieraccini, Sandra *see* **Bellavia, Stefania, 2005h:90087**

Polyak, R. (*with* Griva, Igor) Primal-dual nonlinear rescaling method for convex optimization. (English summary) **2005f:90085**

Potra, Florian A. A superlinearly convergent predictor-corrector method for degenerate LCP in a wide neighborhood of the central path with $O(\sqrt{n}L)$-iteration complexity. (English summary) **2005e:90144**

Prikarpat-s'kiĭ, O. A. *see* **Tverdokhlib, I. P., 2005e:90064**

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Roos, Cornelis *see* **Bai, Yan Qin et al., 2005a:90091; 2005h:90065** *and* **Halická, M. et al., 2005m:90078**

Salahi, Maziar (*with* Terlaky, Tamás) An adaptive self-regular proximity based large-update IPM for LO. (English summary) **2005m:90062**

Sepulchre, Rodolphe *see* **Absil, P.-A., 2005b:90075**
Sethia, Saurabh *see* **Aichholzer, Oswin et al., 2005g:91059**
Sheu, Ruey-Lin (*with* Lin, J. Y.) Solving continuous min-max problems by an iterative entropic regularization method. (English summary) **2005d:90129**
Sorensen, D. C. *see* **Oliveira, Aurelio R. L., 2005h:65053**
Spielman, Daniel A. (*with* Teng, Shang-Hua) Smoothed analysis of termination of linear programming algorithms. (English summary) **2005b:90069**
Stein, Oliver (*with* Still, Georg) Solving semi-infinite optimization problems with interior point techniques. (English summary) **2005e:90137**
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Toh, Kim-Chuan *see* **Zhou, Guang Lu et al., 2005b:90090** *and* **2005j:90060**
Truong, Van Anh (*with* Tunçel, Levent) Geometry of homogeneous convex cones, duality mapping, and optimal self-concordant barriers. (English summary) **2005a:90124**
Tseng, Paul Convergence properties of Dikin's affine scaling algorithm for nonconvex quadratic minimization. (English summary) **2005i:90052**
Tunçel, Levent *see* **Truong, Van Anh, 2005a:90124**
Tverdokhlib, I. P. (*with* Prikarpat·s′kiĭ, O. A.) Dynamical system approach to solving linear programming problems and applications in economics modelling. (English and Ukrainian summaries) **2005e:90064**
Urrutia, Jorge *see* **Aichholzer, Oswin et al., 2005g:91059**
Vandenberghe, Lieven (*with* Balakrishnan, V. Ragu; Wallin, Ragnar; Hansson, Anders; Roh, Tae) Interior-point algorithms for semidefinite programming problems derived from the KYP lemma. (English summary) **2005m:90080**
— *see also* **Boyd, Stephen P., 2005d:90002**
Vaz, A. Ismael F. (*with* Fernandes, Edite M. G. P.; Gomes, M. Paula S. F.) A quasi-Newton interior point method for semi-infinite programming. (English summary) **2005b:90145**
Villalobos, Cristina *see* **Brito, Alejandro E. et al., 2005i:94003**
Villalobos, M. C. (*with* Tapia, R. A.; Zhang, Yin[1]) Sphere of convergence of Newton's method on two equivalent systems from nonlinear programming. (English summary) **2005e:90159**
Wagner, Michael (*with* Meller, Jarosław; Elber, Ron) Large-scale linear programming techniques for the design of protein folding potentials. (English summary)
Wallin, Ragnar *see* **Vandenberghe, Lieven et al., 2005m:90080**
Walter, Wolfgang V. *see* **Idriss, Ismail I.**
Wang, Ruo Peng *see* **Xing, Zhi Dong et al., 2005a:90097**
Wang, Shu Hua (*with* Liu, San Yang; Mu, Xue Wen; Chi, Xiao Ni) An inexact infeasible interior point algorithm for semidefinite programming. (Chinese. English and Chinese summaries)
Xing, Zhi Dong (*with* Wang, Ruo Peng; Dong, Jian Min) An entropy function method for a class of linear programs. (Chinese. English and Chinese summaries) **2005a:90097**
Xu, Song A non-interior path following method for convex quadratic programming problems with bound constraints. (English summary) **2005b:90086**
Yabe, Hiroshi *see* **Yamashita, Hiroshi[2] et al., 2005m:90121**
Yamashita, Hiroshi[2] (*with* Yabe, Hiroshi; Tanabe, Takahito) A globally and superlinearly convergent primal-dual interior point trust region method for large scale constrained optimization. (English summary) **2005m:90121**
Yassine, Adnan *see* **Kadiri, Abderrahim, 2005e:65079**
Ye, Yinyu *see* **Cheung, Dennis et al., 2005f:90063**
Yu, Qian *see* **Jiang, Yan et al., 2005f:90064**
Zhang, Ming Wang A higher-order Dikin type affine scaling algorithm for a class of nonmonotonic linear complementary problems. (Chinese. English and Chinese summaries)
Zhang, Shu Zhong A new self-dual embedding method for convex programming. (English summary) **2005g:90105**
Zhang, Yin[1] *see* **Villalobos, M. C. et al., 2005e:90159**
Zhou, Guang Lu (*with* Toh, Kim-Chuan) Polynomiality of an inexact infeasible interior point algorithm for semidefinite programming. (English summary) **2005b:90090**
— (*with* Toh, Kim-Chuan; Sun, Jie) Efficient algorithms for the smallest enclosing ball problem. (English summary) **2005j:90060**
Zorkal′tsev, V. I. Solution of systems of two-sided linear inequalities by interior-point algorithms using the example of a model of the operating conditions of electrical power systems. (Russian. Russian summary) **2005b:90071**
— (*with* Filatov, A. Yu.) New versions of dual interior-point algorithms for systems of linear inequalities. (Russian. Russian summary) **2005k:65109**

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Abramson, Mark A. (*with* Audet, Charles; Dennis, John E., Jr.) Generalized pattern searches with derivative information. (English summary) **2005b:90159**
Audet, Charles *see* **Abramson, Mark A. et al., 2005b:90159**
Bello, Lenys (*with* Raydan, Marcos) Preconditioned spectral projected gradient method on convex sets. (English summary) **2005k:90211**
Bouhadi, M. *see* **Souza de Cursi, J. E. et al., 2005d:90140**
Cao, Li-hua (*with* Sun, Qing Ying) Global convergence of a new conjugate gradient methods with a modification of the Curry-Altman step-size rule. (English summary) **2005f:90155**
Cao, Xing Tao *see* **Chen, Yuan Yuan et al.**
Chen, Yuan Yuan (*with* Cao, Xing Tao; Du, Shou Qiang) A nonlinear conjugate gradient method with global convergence. (Chinese. English and Chinese summaries)
— *see also* **Du, Shou Qiang, 2005f:90156**
Chernyaev, Yu. A. Two algorithms for solving a mathematical programming problem with preconvex constraints. (Russian. Russian summary) **2005j:90101**
Chiang, Hsiao-Dong *see* **Lee, Jaewook, 2005a:90190**
Dai, Yu-Hong Conjugate gradient methods with Armijo-type line searches. (English summary) **2005c:90115**
— (*with* Yuan, Ya-Xiang) Analysis of monotone gradient methods. (English summary) **2005k:90212**
Dennis, John E., Jr. *see* **Abramson, Mark A. et al., 2005b:90159**
Du, Shou Qiang (*with* Chen, Yuan Yuan) Convergence analysis on a class of nonmonotone conjugate gradient methods without sufficient decrease condition. (English summary) **2005f:90156**
— (*with* Chen, Yuan Yuan) Global convergence for a class of conjugate gradient methods with relaxed line search. (English and Chinese summaries)
— *see also* **Chen, Yuan Yuan et al.**
Ellaia, R. *see* **Souza de Cursi, J. E. et al., 2005d:90140**
Esenkov, A. S. (*with* Ishmukhametov, A. Z.; Karyukina, Yu. G.) Regularized projection and conditional gradient methods in convex finite-dimensional optimization problems. (Russian. Russian summary) **2005j:90102**
Grippo, L. (*with* Lucidi, Stefano) Convergence conditions, line search algorithms and trust region implementations for the Polak-Ribière conjugate gradient method. (English summary) **2005k:90213**
Hager, William W. (*with* Park, Soonchul) The gradient projection method with exact line search. (English summary) **2005j:90103**
Huang, Xue Xiang *see* **Yang, Xiao Qi, 2005f:90159**
Ishmukhametov, A. Z. *see* **Esenkov, A. S. et al., 2005j:90102**
Jian, Jin Bao (*with* Liang, Yu-mei) Finitely convergent algorithms of generalized gradient projection for systems of nonlinear inequalities. (English summary) **2005i:90100**
Karyukina, Yu. G. *see* **Esenkov, A. S. et al., 2005j:90102**
Kelley, Carl T. Implicit filtering and nonlinear least squares problems. (English summary) **2005f:90157**
Lee, Jaewook (*with* Chiang, Hsiao-Dong) A dynamical trajectory-based methodology for systematically computing multiple optimal solutions of general nonlinear programming problems. (English summary) **2005a:90190**
Liang, Yu-mei *see* **Jian, Jin Bao, 2005i:90100**
Liao, Li-Zhi (*with* Qi, Liqun; Tam, Hon Wah) A gradient-based continuous method for large-scale optimization problems. (English summary) **2005m:90161**
Liu, Xian[2] The impelling function method applied to global optimization. (English summary) **2005a:90191**
Lucidi, Stefano *see* **Grippo, L., 2005k:90213**
Park, Soonchul *see* **Hager, William W., 2005j:90103**
Qi, Liqun *see* **Liao, Li-Zhi et al., 2005m:90161**
Raydan, Marcos *see* **Bello, Lenys, 2005k:90211**
Shen, Jie[4] *see* **Shi, Zhen Jun, 2005j:90104**
Shi, Zhen Jun Convergence of line search methods for unconstrained optimization. (English summary) **2005f:90158**
— A supermemory gradient method with inexact line searches. (Chinese. English and Chinese summaries)
— (*with* Shen, Jie[4]) A new descent algorithm with curve search rule. (English summary) **2005j:90104**
Snyman, Jan A. A gradient-only line search method for the conjugate gradient method applied to constrained optimization problems with severe noise in the objective function. (English summary) **2005g:90172**
Souza de Cursi, J. E. (*with* Ellaia, R.; Bouhadi, M.) Global optimization under nonlinear restrictions by using stochastic perturbations of the projected gradient. (English summary) **2005d:90140**
Sun, Qing Ying Global convergence results of a three term memory gradient method with a non-monotone line search technique. (English summary) **2005j:90105**
— *see also* **Cao, Li-hua, 2005f:90155**
Tam, Hon Wah *see* **Liao, Li-Zhi et al., 2005m:90161**
Wang, Wei[9] (*with* Zhang, Lian Sheng; Xu, Yi Fan) A revised conjugate gradient projection algorithm for inequality constrained optimizations. (English summary) **2005h:90167**
Wang, Zhi Hua The convergence of inexact proximal point algorithm for monotone variational inequalities. (Chinese. English summary) **2005k:90214**
Xu, Yi Fan *see* **Wang, Wei[9] et al., 2005h:90167**
Yang, Xiao Qi (*with* Huang, Xue Xiang) Lower-order penalty methods for mathematical programs with complementarity constraints. (English summary) **2005f:90159**
Yuan, Ya-Xiang *see* **Dai, Yu-Hong, 2005k:90212**
Zhang, Lian Sheng *see* **Wang, Wei[9] et al., 2005h:90167**
Zhu, De-tong An affine scaling projective reduced Hessian algorithm for minimum optimization with nonlinear equality and linear inequality constraints. (English summary)

Items with secondary classifications in 90C52

Andreani, Roberto (*with* Birgin, Ernesto G.; Martínez, José Mario; Yuan, Jin Yun) Spectral projected gradient and variable metric methods for optimization with linear inequalities. (English summary) **2005k:90148**
Baltz, Andreas (*with* Srivastav, Anand) Approximation algorithms for the Euclidean bipartite TSP. (English summary) **2005m:68249**
Birgin, Ernesto G. *see* **Andreani, Roberto et al., 2005k:90148**
Blum, Heribert (*with* Braess, Dietrich; Suttmeier, F. T.) A cascadic multigrid algorithm for variational inequalities. (English summary) **2005e:65194**
Braess, Dietrich *see* **Blum, Heribert et al., 2005e:65194**
Byatt, D. (*with* Coope, Ian D.; Price, Christopher J.) Conjugate grids for unconstrained optimisation. (English summary) **2005e:90118**
Censor, Yair (*with* De Pierro, Alvaro R.; Zaknoon, Maroun) Steered sequential projections for the inconsistent convex feasibility problem. (English summary) **2005g:90099**
Chalmond, Bernard ★ Eléments de modélisation pour l'analyse d'images. (French) [Elements of modelling for image analysis] **2005j:62045**
Chen, Yuan Yuan *see* **Du, Shou Qiang, 2005b:90127**

Chernyaev, Yu. A. *see* **Zabotin, V. I., 2005c:90091**
Chi, Xue Bin *see* **Gu, Tong Xiang et al., 2005f:65081**
Chinneck, John W. The constraint consensus method for finding approximately feasible points in nonlinear programs. (English summary)
Coope, Ian D. (*with* Price, Christopher J.) A direct search frame-based conjugate gradients method. (English summary) **2005f:90164**
— *see also* **Byatt, D. et al., 2005e:90118**
Dacorogna, Bernard (*with* Glowinski, Roland; Kuznetsov, Yuriĭ Alekseevich[1]; Pan, Tsorng-Whay) On a conjugate gradient/Newton/penalty method for the solution of obstacle problems. Application to the solution of an eikonal system with Dirichlet boundary conditions. **2005g:49016**
Dai, Yu-Hong (*with* Liao, Li-Zhi; Li, Duan) On restart procedures for the conjugate gradient method. (English summary) **2005h:90129**
— (*with* Fletcher, Roger) Projected Barzilai-Borwein methods for large-scale box-constrained quadratic programming. (English summary) **2005m:90076**
Deng, Fang Ping *see* **Ye, Ming Lu, 2005k:49034**
Deng, Naiyang (*with* Zhang, Haibin) Theoretical efficiency of a new inexact method of tangent hyperbolas. (English summary) **2005d:90115**
De Pierro, Alvaro R. *see* **Censor, Yair et al., 2005g:90099**
Diniz-Ehrhardt, M. A. (*with* Gomes-Ruggiero, M. A.; Martínez, José Mario; Santos, S. A.) Augmented Lagrangian algorithms based on the spectral projected gradient method for solving nonlinear programming problems. (English summary) **2005g:90137**
Dobson, David C. (*with* Santosa, Fadil) Optimal localization of eigenfunctions in an inhomogeneous medium. (English summary) **2005d:35034**
Dong, Ning *see* **Mo, Hao Yi et al., 2005k:90174**
Du, Shou Qiang (*with* Chen, Yuan Yuan) Global convergence properties of three-term conjugate gradient method with new Wolfe-type line search. (English summary) **2005b:90127**
Duda, Jan T. *see* **Kowalewski, Adam, 2005a:49047**
Fan, Jin-yan (*with* Pan, Jian-Yu) Inexact Levenberg-Marquardt method for nonlinear equations. (English summary) **2005j:65050**
Fasano, Giovanni Conjugate gradient (CG)-type method for the solution of Newton's equation within optimization frameworks. (English summary) **2005e:90119**
Fletcher, Roger *see* **Dai, Yu-Hong, 2005m:90076**
Fukushima, Masao *see* **Kanzow, Christian et al., 2005h:65084a** *and* **2005h:65084b**
Gao, Xing Bao *see* **Mo, Hao Yi et al., 2005k:90174**
Garanzha, V. A. (*with* Kaporin, Igor; Konshin, I.) Truncated Newton type solver with application to grid untangling problem. (English summary) **2005d:90117**
Gasimov, Rafail N. (*with* Ismayilova, Nergiz A.) The modified subgradient method for equality constrained nonconvex optimization problems. (English summary) **2005m:90087**
Glowinski, Roland (*with* Lapin, S. A.) Iterative solution of linear variational problems in Hilbert spaces: some conjugate gradients success stories. **2005h:65088**
— *see also* **Dacorogna, Bernard et al., 2005g:49016**
Gomes-Ruggiero, M. A. *see* **Diniz-Ehrhardt, M. A. et al., 2005g:90137**
Graña Drummond, L. M. (*with* Iusem, Alfredo N.) A projected gradient method for vector optimization problems. (English summary) **2005a:90139**
— (*with* Svaiter, Benar F.) A steepest descent method for vector optimization. (English summary) **2005i:90057**
Gu, Tong Xiang (*with* Liu, Xing Ping; Chi, Xue Bin) Convergence of a multiple-search-direction conjugate gradient method for symmetric positive definite problems. (Chinese. English summary) **2005f:65081**
He, Su Xiang A potential function algorithm for solving inequality constrained optimization problems. (Chinese. English summary) **2005k:90150**
Hintermüller, Michael (*with* Kunisch, Karl; Spasov, Yulian; Volkwein, Stefan) Dynamical systems-based optimal control of incompressible fluids. (English summary) **2005f:76044**
Ismayilova, Nergiz A. *see* **Gasimov, Rafail N., 2005m:90087**
Iusem, Alfredo N. *see* **Graña Drummond, L. M., 2005a:90139**
Ivanov, Vsevolod I. Limit extremal problems. (English summary) **2005g:49062**
Izmailov, Alekseĭ Feridovich (*with* Solodov, Mikhail) ★ Численные методы оптимизации. (Russian. English and Russian summaries) [Numerical optimizatiom methods] **2005f:90003**
Kan, Yu. S. On the convergence of a stochastic quasigradient algorithm for quantile optimization. (Russian. Russian summary) **2005g:90090**
Kanzow, Christian (*with* Yamashita, Nobuo; Fukushima, Masao) Levenberg-Marquardt methods with strong local convergence properties for solving nonlinear equations with convex constraints. (English summary) **2005h:65084a**
— Proximal-like methods for convex minimization problems. (English summary) **2005m:90082**
— (*with* Yamashita, Nobuo; Fukushima, Masao) Levenberg-Marquardt methods with strong local convergence properties for solving nonlinear equations with convex constraints. (English summary) **2005h:65084b**
Kaporin, Igor *see* **Garanzha, V. A. et al., 2005d:90117**
Knowles, Ian W. Variational methods for ill-posed problems. (English summary) **2005m:65120**
Konshin, I. *see* **Garanzha, V. A. et al., 2005d:90117**
Kowalewski, Adam (*with* Duda, Jan T.) An optimization problem for time lag distributed parabolic systems. (English summary) **2005a:49047**
Kunisch, Karl *see* **Hintermüller, Michael et al., 2005f:76044**
Kuznetsov, Yuriĭ Alekseevich[1] *see* **Dacorogna, Bernard et al., 2005g:49016**
Lapin, S. A. *see* **Glowinski, Roland, 2005h:65088**
Li, Duan *see* **Dai, Yu-Hong et al., 2005h:90129**
Li, Kang Di *see* **Pu, Ding Guo et al.**
Li, Qiao-xing *see* **Wei, Zeng-xin, 2005j:90082**
Liao, Li-Zhi *see* **Dai, Yu-Hong et al., 2005h:90129**
Liu, Xin Hai *see* **Sun, Qing Ying, 2005f:65053**
Liu, Xing Ping *see* **Gu, Tong Xiang et al., 2005f:65081**
Lukšan, Ladislav (*with* Matonoha, Ctirad; Vlček, Jan) Nonsmooth equation method for nonlinear nonconvex optimization. **2005e:90094**
Martínez, José Mario *see* **Diniz-Ehrhardt, M. A. et al., 2005g:90137** *and* **Andreani, Roberto et al., 2005k:90148**
Matonoha, Ctirad *see* **Lukšan, Ladislav et al., 2005e:90094**
Miglierina, E. Slow solutions of a differential inclusion and vector optimization. (English summary) **2005a:90145**
Mo, Hao Yi (*with* Dong, Ning; Gao, Xing Bao) A gradient-based neural network for horizontal linear complementarity problems. (Chinese. English and Chinese summaries) **2005k:90174**
Ogura, Nobuhiko *see* **Yamada, Isao, 2005i:90046**
Pan, Jian-Yu *see* **Fan, Jin-yan, 2005j:65050**
Pan, Tsorng-Whay *see* **Dacorogna, Bernard et al., 2005g:49016**
Price, Christopher J. *see* **Byatt, D. et al., 2005e:90118** *and* **Coope, Ian D., 2005f:90164**
Pu, Ding Guo (*with* Li, Kang Di; Xue, Wen Juan) Convergence of QP-free infeasible methods for nonlinear inequality constrained optimization problems. (Chinese. English and Chinese summaries)
Qi, Liqun *see* **Tong, Xiao Jiao, 2005i:65082**
Santos, S. A. *see* **Diniz-Ehrhardt, M. A. et al., 2005g:90137**
Santosa, Fadil *see* **Dobson, David C., 2005d:35034**
Shen, Jie[4] *see* **Shi, Zhen Jun, 2005f:90123**
Shi, Zhen Jun (*with* Shen, Jie[4]) A gradient-related algorithm with inexact line searches. (English summary) **2005f:90123**
— *see also* **Tang, Jing Yong**
Skarin, V. D. Regularized Lagrange function and correction methods for improper convex programming problems. (English summary) **2005e:90091**
Solodov, Mikhail *see* **Izmailov, Alekseĭ Feridovich, 2005f:90003**
Spasov, Yulian *see* **Hintermüller, Michael et al., 2005f:76044**
Srivastav, Anand *see* **Baltz, Andreas, 2005m:68249**
Sun, Churen A necessary and sufficient condition for a point to be a global maximizer of a constrained optimization. (English summary) **2005i:90095**
Sun, Qing Ying Three-term memory gradient Rosen projection method for nonlinear programming with linear or nonlinear inequality constraints. (Chinese. English and Chinese summaries) **2005j:90081**
— (*with* Liu, Xin Hai) Global convergence results of a new three term conjugate gradient method with generalized Armijo step size rule. (Chinese. English summary) **2005f:65053**
— Generalized super-memory gradient projection method with arbitrary initial point and conjugate gradient scalar for nonlinear programming with nonlinear inequality constraints. (Chinese. English and Chinese summaries) **2005k:90155**
Suttmeier, F. T. *see* **Blum, Heribert et al., 2005e:65194**
Svaiter, Benar F. *see* **Graña Drummond, L. M., 2005i:90057**
Takano, Masahiro *see* **Yabe, Hiroshi, 2005e:90126**
Tang, Jing Yong (*with* Shi, Zhen Jun) A class of new memory gradient methods under strong Wolfe linear search. (Chinese. English and Chinese summaries)
Tarasova, V. P. On classes of multi-extremal functions that allow the search for the global extremum by the Fibonacci method. (Russian. Russian summary) **2005f:90111**
Tong, Xiao Jiao (*with* Qi, Liqun) On the convergence of a trust-region method for solving constrained nonlinear equations with degenerate solutions. (English summary) **2005i:65082**
Tvalodze, Yu. *see* **Zhuzhunashvili, A., 2005e:65082**
Vlček, Jan *see* **Lukšan, Ladislav et al., 2005e:90094**
Volkwein, Stefan *see* **Hintermüller, Michael et al., 2005f:76044**
Wang, Ruo Peng (*with* Xing, Zhi Dong) A hybrid algorithm for unconstrained optimization problems. (Chinese. English and Chinese summaries)
Wang, Yan Jun (*with* Zhang, Ke Cun) A transformation path algorithm for unconstrained signomial geometric programming. (English summary) **2005k:90156**
Wei, Zeng-xin (*with* Li, Qiao-xing) A new Huang class and its properties for unconstrained optimization problems. (English and Chinese summaries) **2005j:90082**
Wolkowicz, Henry Solving semidefinite programs using preconditioned conjugate gradients. (English summary) **2005h:90091**
Xing, Zhi Dong *see* **Wang, Ruo Peng**
Xue, Qing Ping *see* **Zhang, Ying Ping et al.**
Xue, Wen Juan *see* **Pu, Ding Guo et al.**
Yabe, Hiroshi (*with* Takano, Masahiro) Global convergence properties of nonlinear conjugate gradient methods with modified secant condition. (English summary) **2005e:90126**
Yamada, Isao (*with* Ogura, Nobuhiko) Adaptive projected subgradient method for asymptotic minimization of sequence of nonnegative convex functions. (English summary) **2005i:90046**
Yamashita, Nobuo *see* **Kanzow, Christian et al., 2005h:65084a** *and* **2005h:65084b**
Yang, Shu Ping *see* **Yuan, Xiu Gui**
Yang, Zhi Xia (*with* Zhang, Zhi Nan) A new parallel algorithm for linear least-squares problems. (Chinese. English and Chinese summaries)
Ye, Ming Lu (*with* Deng, Fang Ping) An extra-gradient projection method for general variational inequalities. (Chinese. English and Chinese summaries) **2005k:49034**
Yu, Zhen Sheng The bounded smooth reformulation and a trust region algorithm for semidefinite complementarity problems. (English summary) **2005h:90093**
Yuan, Jin Yun *see* **Andreani, Roberto et al., 2005k:90148**
Yuan, Xiu Gui (*with* Yang, Shu Ping) A trust region algorithm using curve-linear searching direction for unconstrained optimization. (Chinese. English and Chinese summaries)
Zabotin, I. Ya. Projection algorithms with parametrized descent directions in pseudoconvex programming. (Russian. Russian summary) **2005a:90146**
Zabotin, V. I. (*with* Chernyaev, Yu. A.) Convergence of an iterative method for solving a mathematical programming problem with a constraint in the form of a convex smooth surface. (Russian. Russian summary) **2005c:90091**
Zaknoon, Maroun *see* **Censor, Yair et al., 2005g:90099**
Zhang, Haibin *see* **Deng, Naiyang, 2005d:90115**
Zhang, Ju-Liang A robust trust region method for general constrained optimization. (English summary) **2005k:90160**
Zhang, Ke Cun *see* **Wang, Yan Jun, 2005k:90156**
Zhang, Ying Ping (*with* Xue, Qing Ping; Zhu, Chuan Chao) A globally convergent algorithm and its convergent rate for unconstrained optimization. (Chinese. English and Chinese summaries)

Zhang, Zhi Nan *see* **Yang, Zhi Xia**
Zhu, Chuan Chao *see* **Zhang, Ying Ping et al.**
Zhu, De-tong Curvilinear paths with nonmonotonic inexact line search technique for unconstrained optimization. (English and Chinese summaries) **2005g:90145**
— An interior affine scaling projective algorithm for nonlinear equality and linear inequality constrained optimization. (English summary) **2005e:90132**
Zhuzhunashvili, A. (*with* Tvalodze, Yu.) On numerical method for some singular minimization problems. (English and Georgian summaries) **2005e:65082**

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Chen, Lan Ping *see* **Jiao, Bao Cong**, **2005i:90101**
Deng, Naiyang *see* **Zhang, Jian Zhong et al.**, **(2004j:90009)**
Dong, June *see* **Xu, Yi Fan et al.**, **2005e:90160**
Fukushima, Masao *see* **Li, Dong Hui[1] et al.**, **2005d:90141**
Fung, Glenn M. (*with* Mangasarian, O. L.) A feature selection Newton method for support vector machine classification. (English summary) **2005a:90192**
Grossmann, Christian (*with* Zadlo, M.) A general class of penalty/barrier path-following Newton methods for nonlinear programming. (English summary) **2005m:90162**
Guo, Qiang *see* **Liu, Jian Guo**, **2005c:90116**
Huang, Zheng Hai (*with* Qi, Liqun; Sun, De Feng) Sub-quadratic convergence of a smoothing Newton algorithm for the P_0- and monotone LCP. (English summary) **2005k:90215**
Jiao, Bao Cong (*with* Chen, Lan Ping) Convergence properties of a class of generalized quasi-Newton methods. (Chinese. English and Chinese summaries) **2005i:90101**
Kruk, Serge G. (*with* Wolkowicz, Henry) Convergence of a short-step primal-dual algorithm based on the Gauss-Newton direction. (English summary) **2005a:90193**
Li, Dong Hui[1] (*with* Fukushima, Masao; Qi, Liqun; Yamashita, Nobuo) Regularized Newton methods for convex minimization problems with singular solutions. (English summary) **2005d:90141**
Lian, Zhigang *see* **Wei, Zeng-xin et al.**, **2005j:90107**
Liu, Chunli *see* **Xu, Yi Fan et al.**, **2005e:90160**
Liu, Jian Guo (*with* Guo, Qiang) Global convergence properties of the modified BFGS method associating with general line search model. (English summary) **2005c:90116**
Mangasarian, O. L. *see* **Fung, Glenn M.**, **2005a:90192**
Nazareth, J. L. An appendix to: "On conjugate gradient algorithms as objects of scientific study" [Optim. Methods Softw. **18** (2003), no. 5, 555–565; MR2015397 (2004h:90099)]. (English summary) **2005c:90117**
Qi, Liqun *see* **Li, Dong Hui[1] et al.**, **2005d:90141** *and* **Huang, Zheng Hai et al.**, **2005k:90215**
Raykov, Ivan Lyubenov Parameterized Newton method for nonsmooth optimization problems. (English summary) **2005j:90106**
Sun, De Feng *see* **Huang, Zheng Hai et al.**, **2005k:90215**
Tapia, R. A. *see* **Villalobos, M. C. et al.**, **2005e:90159**
Tong, Xiao Jiao (*with* Zhou, Shu Zi) A smoothing projected Newton-type method for semismooth equations with bound constraints. (English summary) **2005m:90163**
Villalobos, M. C. (*with* Tapia, R. A.; Zhang, Yin[1]) Sphere of convergence of Newton's method on two equivalent systems from nonlinear programming. (English summary) **2005e:90159**
Wang, Zhaozhi *see* **Zhang, Jian Zhong et al.**, **(2004j:90009)**
Wei, Zeng-xin (*with* Yu, Gaohang; Yuan, Gonglin; Lian, Zhigang) The superlinear convergence of a modified BFGS-type method for unconstrained optimization. (English summary) **2005j:90107**
Wolkowicz, Henry *see* **Kruk, Serge G.**, **2005a:90193**
Xu, Da Chuan Global convergence of the Broyden's class of quasi-Newton methods with nonmonotone linesearch. (English summary) **2005f:90160**
Xu, Yi Fan (*with* Liu, Chunli; Dong, June) A rank-one fitting algorithm for unconstrained optimization problems. (English summary) **2005e:90160**
Yamashita, Nobuo *see* **Li, Dong Hui[1] et al.**, **2005d:90141**
Yu, Gaohang *see* **Wei, Zeng-xin et al.**, **2005j:90107**
Yuan, Gonglin *see* **Wei, Zeng-xin et al.**, **2005j:90107**
Zadlo, M. *see* **Grossmann, Christian**, **2005m:90162**
Zhang, Jian Zhong (*with* Deng, Naiyang; Wang, Zhaozhi) Efficiency analysis on a truncated Newton method with preconditioned conjugate gradient technique for optimization. (English summary) (*see* **2004j:90009**)
Zhang, Yin[1] *see* **Villalobos, M. C. et al.**, **2005e:90159**
Zhou, Shu Zi *see* **Tong, Xiao Jiao**, **2005m:90163**

Items with secondary classifications in 90C53

Alexopoulos, S. V. A homogeneous method for unconstrained optimization. (English summary)
Baker, Christopher T. H. (*with* Parmuzin, Evgeny I.) Identification of the initial function for nonlinear delay differential equations. (English summary) **2005k:65136**
Bock, Hans Georg *see* **Diehl, Moritz et al.**, **2005e:93055**
Bratkovič, Franc *see* **Bűrmen, Árpád et al.**, **2005c:90119**
Bűrmen, Árpád (*with* Bratkovič, Franc; Puhan, Janez; Fajfar, Iztok; Tuma, Tadej) Extended global convergence framework for unconstrained optimization. (English summary) **2005c:90119**
Chavent, Guy Curvature steps and geodesic moves for nonlinear least squares descent algorithms. (English summary) **2005a:90185**
Chen, Yuan Yuan *see* **Wang, Chang Yu et al.**, **2005d:90121**
Dar'ina, A. N. (*with* Izmailov, Alekseĭ Feridovich; Solodov, Mikhail) Mixed complementarity problems: regularity, estimates for the distance to a solution, and Newton methods. (Russian. Russian summary) **2005d:90127**
Diehl, Moritz (*with* Bock, Hans Georg; Schlöder, Johannes P.) Newton-type methods for the approximate solution of nonlinear programming problems in real-time. (English summary) **2005e:93055**
Du, Shou Qiang *see* **Wang, Chang Yu et al.**, **2005d:90121**
El-Alem, M. M. (*with* Ibrahim, Sobhy El-sayed; El-Sobky, B.) Local convergence of the interior-point Newton method for general nonlinear programming. (English summary) **2005c:90113**
El-Sobky, B. *see* **El-Alem, M. M. et al.**, **2005c:90113**
Fajfar, Iztok *see* **Bűrmen, Árpád et al.**, **2005c:90119**
Garanzha, V. A. (*with* Kaporin, Igor; Konshin, I.) Truncated Newton type solver with application to grid untangling problem. (English summary) **2005d:90117**
Geoffroy, Michel H. (*with* Piétrus, Alain) A superquadratic method for solving generalized equations in the Hölder case. (English summary) **2005g:49030**
Gertz, E. Michael A quasi-Newton trust-region method. (English summary) **2005k:90216**
Haarala, M. (*with* Miettinen, Kaisa; Mäkelä, M. M.) New limited memory bundle method for large-scale nonsmooth optimization. (English summary) **2005f:90165**
Han, Deren A truly globally convergent feasible Newton-type method for mixed complementarity problems. (English summary) **2005f:90133**
Han, Ji Ye *see* **Huang, Zheng Hai et al.**, **2005f:90134**
Huang, Zheng Hai (*with* Zhang, Li Ping[1]; Han, Ji Ye) A hybrid smoothing-nonsmooth Newton-type algorithm yielding an exact solution of the P_0-LCP. (English summary) **2005f:90134**
Ibrahim, Sobhy El-sayed *see* **El-Alem, M. M. et al.**, **2005c:90113**
Izmailov, Alekseĭ Feridovich (*with* Solodov, Mikhail) ★ Численные методы оптимизации. (Russian. English and Russian summaries) [Numerical optimizatiom methods] **2005f:90003**
— *see also* **Dar'ina, A. N. et al.**, **2005d:90127**
Jibrin, Shafiu (*with* Swift, James W.) The boundary of weighted analytic centers for linear matrix inequalities. (English summary) **2005a:90121**
Kanzow, Christian (*with* Nagel, Christian) Some structural properties of a Newton-type method for semidefinite programs. (English summary) **2005g:90096**
Kaporin, Igor *see* **Garanzha, V. A. et al.**, **2005d:90117**
King, Alan J. (*with* Koivu, Matti; Pennanen, Teemu) Calibrated option bounds. (English summary) **2005m:91107**
Koivu, Matti *see* **King, Alan J. et al.**, **2005m:91107**
Konshin, I. *see* **Garanzha, V. A. et al.**, **2005d:90117**
Li, Dong Hui[1] (*with* Qi, Liqun; Tam, Judy; Wu, Soon-Yi) A smoothing Newton method for semi-infinite programming. (English summary) **2005j:90086**
— *see also* **Qi, Liqun et al.**, **2005c:65044**
Liu, Cheng Cheng *see* **Wu, Qing[2] et al.**
Liu, San Yang *see* **Wu, Qing[2] et al.**
Lopes, Véra Lucia Rocha *see* **Pérez, Rosana**
Luo, Liangsheng *see* **Wu, Xinyuan**, **2005f:90124**
Mäkelä, M. M. *see* **Haarala, M. et al.**, **2005f:90165**
Mangasarian, O. L. A Newton method for linear programming. (English summary) **2005a:90093**
Miettinen, Kaisa *see* **Haarala, M. et al.**, **2005f:90165**
Moghrabi, Issam A. R. A quadratic termination quasi-Newton algorithm without exact linear searches. (English summary)
Nagel, Christian *see* **Kanzow, Christian**, **2005g:90096**
Parmuzin, Evgeny I. *see* **Baker, Christopher T. H.**, **2005k:65136**
Pennanen, Teemu *see* **King, Alan J. et al.**, **2005m:91107**
Pérez, Rosana (*with* Lopes, Véra Lucia Rocha) Recent applications and numerical implementation of quasi-Newton methods for solving nonlinear systems of equations. (English summary)
Pierre, Morgan Newton and conjugate gradient for harmonic maps from the disc into the sphere. (English summary) **2005g:65175**
Piétrus, Alain *see* **Geoffroy, Michel H.**, **2005g:49030**
Potra, Florian A. A superlinearly convergent predictor-corrector method for degenerate LCP in a wide neighborhood of the central path with $O(\sqrt{n}L)$-iteration complexity. (English summary) **2005e:90144**
Puhan, Janez *see* **Bűrmen, Árpád et al.**, **2005c:90119**
Qi, Houduo (*with* Qi, Liqun; Sun, De Feng) Solving Karush-Kuhn-Tucker systems via the trust region and the conjugate gradient methods. (English summary) **2005a:90152**
Qi, Liqun (*with* Tong, Xiao Jiao; Li, Dong Hui[1]) Active-set projected trust-region algorithm for box-constrained nonsmooth equations. (English summary) **2005c:65044**
— *see also* **Qi, Houduo et al.**, **2005a:90152**; **Sun, Jie et al.**, **2005g:90098** *and* **Li, Dong Hui[1] et al.**, **2005j:90086**
Schlöder, Johannes P. *see* **Diehl, Moritz et al.**, **2005e:93055**
Shi, Zhen Jun Convergence of line search methods for unconstrained optimization. (English summary) **2005f:90158**
Solodov, Mikhail *see* **Dar'ina, A. N. et al.**, **2005d:90127** *and* **Izmailov, Alekseĭ Feridovich**, **2005f:90003**
Sun, De Feng *see* **Qi, Houduo et al.**, **2005a:90152** *and* **Sun, Jie et al.**, **2005g:90098**
Sun, Jie (*with* Sun, De Feng; Qi, Liqun) A squared smoothing Newton method for nonsmooth matrix equations and its applications in semidefinite optimization problems. (English summary) **2005g:90098**
Swift, James W. *see* **Jibrin, Shafiu**, **2005a:90121**
Tam, Judy *see* **Li, Dong Hui[1] et al.**, **2005j:90086**
Tong, Xiao Jiao *see* **Qi, Liqun et al.**, **2005c:65044**
Tuma, Tadej *see* **Bűrmen, Árpád et al.**, **2005c:90119**
Wang, Chang Yu (*with* Du, Shou Qiang; Chen, Yuan Yuan) Global convergence properties of three-term conjugate gradient method with new-type line search. (English summary) **2005d:90121**
Wu, Qing[2] (*with* Liu, San Yang; Zhang, Le You; Liu, Cheng Cheng) A modified filled function method for global minimization of a nonsmooth programming problem. (Chinese. English and Chinese summaries)
Wu, Soon-Yi *see* **Li, Dong Hui[1] et al.**, **2005j:90086**
Wu, Xinyuan (*with* Luo, Liangsheng) Point monotonicity of maps and its applications in numerical computation. (English summary) **2005f:90124**
Xue, Yi A Newton-like algorithm for solving minimax optimization problems. (Chinese. English summary)
Yang, Yu-Fei Globally and superlinearly convergent algorithms for the solution of box-constrained optimization. (English summary) **2005e:90127**
Yu, Zhen Sheng On the global convergence of a Levenberg-Marquardt method for constrained nonlinear equations. (English summary) **2005e:90129**
Zhang, Le You *see* **Wu, Qing[2] et al.**

Zhang, Li Ping[1] *see* **Huang, Zheng Hai et al., 2005f:90134**
Zhu, De-tong Nonmonotonic trust region projected reduced Hessian algorithm with two-piece update for constrained optimization. (English summary) **2005e:90131**

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Al-Baali, M. (*with* Fuduli, Antonio; Musmanno, Roberto) On the performance of switching BFGS/SR1 algorithms for unconstrained optimization. (English summary) **2005a:90194**
Biros, George (*with* Ghattas, Omar) Inexactness issues in the Lagrange-Newton-Krylov-Schur method for PDE-constrained optimization. (English summary) **2005h:90168**
Cao, Ding-Hua *see* **Zhang, Zhong Zhi et al., 2005e:90162**
Chauvier, Laurent (*with* Fuduli, Antonio; Gilbert, Jean Charles) A truncated SQP algorithm for solving nonconvex equality constrained optimization problems. (English summary) **2005c:90118**
Chen, Zhong Wen (*with* Zhang, Xiang Sun) A nonmonotone trust-region algorithm with nonmonotone penalty parameters for constrained optimization. (English summary) **2005f:90161**
Faure, Christèle *see* **Griewank, Andreas, 2005b:90160**
Ford, John A. (*with* Moghrabi, Issam A. R.) On the use of implicit updates in minimum curvature multi-step quasi-Newton methods. (English summary) (*see* **2005j:65003**)
Fu, Jinhua (*with* Sun, Wen Yu) Nonmonotone adaptive trust-region method for unconstrained optimization problems. (English summary)
Fuduli, Antonio *see* **Al-Baali, M. et al., 2005a:90194** *and* **Chauvier, Laurent et al., 2005c:90118**
Gertz, E. Michael A quasi-Newton trust-region method. (English summary) **2005k:90216**
Ghattas, Omar *see* **Biros, George, 2005h:90168**
Gilbert, Jean Charles *see* **Chauvier, Laurent et al., 2005c:90118**
Gill, Philip E. (*with* Murray, Walter; Saunders, Michael A.) SNOPT: an SQP algorithm for large-scale constrained optimization. (English summary) **2005m:90164**
Griewank, Andreas (*with* Faure, Christèle) Piggyback differentiation and optimization. (English summary) **2005b:90160**
— (*with* Walther, Andrea) How up-to-date are low-rank updates? (English and Spanish summaries) **2005m:90165**
Howse, James W. *see* **Muske, Kenneth R., 2005b:90161**
Hu, Qing-Jie *see* **Jian, Jin Bao et al., 2005m:90166**
Jian, Jin Bao (*with* Luo, Mu Hua) An SQP quasi-feasible algorithm with superlinear and quadratic convergence for general constrained optimization. (Chinese. English and Chinese summaries) **2005f:90162**
— A new feasible descent algorithm combining SQP with generalized projection for optimization problems without strict complementarity. (English summary) **2005h:90169**
— (*with* Tang, Chun-Ming[2]) An SQP feasible descent algorithm for nonlinear inequality constrained optimization without strict complementarity. (English summary) **2005i:90102**
— (*with* Tang, Chun-Ming[2]; Hu, Qing-Jie; Zheng, Hai-Yan) A feasible descent SQP algorithm for general constrained optimization without strict complementarity. (English summary) **2005m:90166**
— *see also* **Zhu, Zhi Bin et al., 2005f:90163**
Luo, Mu Hua *see* **Jian, Jin Bao, 2005f:90162**
Ma, Chang Feng A successive approximation Broyden-like algorithm for solving the box constrained variational inequality problems. (Chinese. English summary) **2005k:90217**
Malinov, V. G. A regularized continuous projection minimization method of the second order with a variable metric. (Russian. English and Ukrainian summaries) **2005m:90167**
Martínez, H. J. *see* **Yabe, Hiroshi et al., 2005h:90170**
Moghrabi, Issam A. R. *see* **Ford, John A., (2005j:65003)**
Murray, Walter *see* **Gill, Philip E. et al., 2005m:90164**
Muske, Kenneth R. (*with* Howse, James W.) A sequential quadratic programming method for nonlinear model predictive control. (English summary) **2005b:90161**
Musmanno, Roberto *see* **Al-Baali, M. et al., 2005a:90194**
Nie, Pu Yan A three-dimension null-space approach for mathematical programs with equilibrium constraints. (English summary) **2005b:90162**
— A null space method for solving system of equations. (English summary) **2005b:90163**
— (*with* Peng, Xiao Fei) Feasible sequential quadratic programming approaches to the system of nonlinear equations. (Chinese. English summary) **2005k:90218**
Peng, Xiao Fei *see* **Nie, Pu Yan, 2005k:90218**
Powell, M. J. D. On the use of quadratic models in unconstrained minimization without derivatives. (English summary) **2005d:90142**
Saunders, Michael A. *see* **Gill, Philip E. et al., 2005m:90164**
Schulz, Volker Simultaneous solution approaches for large optimization problems. (English summary) **2005a:90195**
Solodov, Mikhail On the sequential quadratically constrained quadratic programming methods. (English summary) **2005a:90196**
Sun, Wen Yu *see* **Fu, Jinhua**
Tang, Chun-Ming[2] *see* **Jian, Jin Bao et al., 2005i:90102** *and* **2005m:90166**
Tapia, R. A. *see* **Yabe, Hiroshi et al., 2005h:90170**
Walther, Andrea *see* **Griewank, Andreas, 2005m:90165**
Wan, Zhong Global convergence of a modified SQP method for mathematical programs with inequalities and equalities constraints. (English summary) **2005e:90161**
Yabe, Hiroshi (*with* Martínez, H. J.; Tapia, R. A.) On sizing and shifting the BFGS update within the sized-Broyden family of secant updates. (English summary) **2005h:90170**
Zeng, Jin-Ping *see* **Zhang, Zhong Zhi et al., 2005e:90162**
Zhang, Ke Cun *see* **Zhu, Zhi Bin et al., 2005f:90163** *and* **2005k:90219**
Zhang, Xiang Sun *see* **Chen, Zhong Wen, 2005f:90161**
Zhang, Zhong Zhi (*with* Cao, Ding-Hua; Zeng, Jin-Ping) Convergence property of a class of variable metric methods. (English summary) **2005e:90162**
Zheng, Hai-Yan *see* **Jian, Jin Bao et al., 2005m:90166**
Zhu, De-tong A two-piece update of projected Hessian algorithm with nonmonotonic trust region method for constrained optimization. (English summary) **2005d:90143**
Zhu, Zhi Bin (*with* Zhang, Ke Cun; Jian, Jin Bao) An improved SQP algorithm for inequality constrained optimization. (English summary) **2005f:90163**
— (*with* Zhang, Ke Cun) A new SQP algorithm for inequality constrained optimization. (Chinese. English and Chinese summaries) **2005k:90219**
— An efficient sequential quadratic programming algorithm for nonlinear programming. (English summary) **2005k:90220**

Items with secondary classifications in 90C55

Ai, Wen-bao *see* **Fan, Jin-yan et al., 2005f:90115**
Antipin, A. S. (*with* Budak, B. A.; Vasil′ev, F. P.) A regularized continuous extragradient method of the first order with a variable metric for solving problems of equilibrium programming. (Russian. Russian summary) **2005d:90126**
Bader, Brett W. (*with* Schnabel, Robert B.) Curvilinear linesearch for tensor methods. (English summary) **2005g:65085**
van de Braak, Georg (*with* Bünner, Martin J.; Schittkowski, Klaus) Optimal design of electronic components by mixed-integer nonlinear programming. (English summary)
Budak, B. A. *see* **Antipin, A. S. et al., 2005d:90126**
Bünner, Martin J. *see* **van de Braak, Georg et al.**
Byrd, Richard H. (*with* Nocedal, Jorge; Waltz, Richard A.) Feasible interior methods using slacks for nonlinear optimization. (English summary) **2005c:90112**
— (*with* Gould, Nicholas I. M.; Nocedal, Jorge; Waltz, Richard A.) An algorithm for nonlinear optimization using linear programming and equality constrained subproblems. (English summary) **2005c:90085**
Cannon, Mark *see* **Kouvaritakis, Basil et al.**
Chalmovianský, P. (*with* Jüttler, Bert) Fairness criteria for algebraic curves. (English summary) **2005k:65027**
Chen, Guo Qing *see* **Wu, Li Ji**
Chen, Jian *see* **Zhang, Ju-Liang et al., 2005e:90145**
Chen, Jian[2] (*with* Yin, Jian-Hua; Lee, Chack Fan) The use of an SQP algorithm in slope stability analysis. (English summary)
Chen, Xue Qing *see* **He, Guang Yu[2] et al., 2005g:90139**
Chen, Zhong Wen *see* **Xu, Da Chuan et al., 2005f:90125** *and* **Yin, Hong Xia et al., 2005h:90135**
Chua, S. K. (*with* Toh, Kim-Chuan; Zhao, Gongyun) Analytic center cutting-plane method with deep cuts for semidefinite feasibility problems. (English summary) **2005h:90088**
Colson, Benoît (*with* Marcotte, Patrice; Savard, Gilles) A trust-region method for nonlinear bilevel programming: algorithm and computational experience. (English summary) **2005k:90111**
Ding, Xiaoying (*with* Wang, Xifan; Song, Yong Hua) Interior point cutting plane method for optimal power flow. (English summary)
Elliott, Lionel *see* **Mera, N. S. et al., 2005g:65096**
Facchinei, F. (*with* Lazzari, C.) Local feasible QP-free algorithms for the constrained minimization of SC^1 functions. (English summary) **2005d:90116**
Fan, Jin-yan (*with* Ai, Wen-bao; Zhang, Qun-ying) A line search and trust region algorithm with trust region radius converging to zero. (English summary) **2005f:90115**
Fernandes, Edite M. G. P. *see* **Vaz, A. Ismael F. et al., 2005b:90145**
Fletcher, Roger (*with* Leyffer, Sven) Solving mathematical programs with complementarity constraints as nonlinear programs. (English summary) **2005a:90149**
— *see also* **Gould, Nicholas I. M. et al.**
Gomes, M. Paula S. F. *see* **Vaz, A. Ismael F. et al., 2005b:90145**
Gould, Nicholas I. M. (*with* Leyffer, Sven; Toint, Philippe L.) Preface: Nonlinear programming: theory and practice [Special issue on large scale nonconvex optimization algorithms and applications in honor of Roger Fletcher's 65th birthday].
— *see also* **Byrd, Richard H. et al., 2005c:90085**
Haber, Eldad (*with* Modersitzki, Jan) Numerical methods for volume preserving image registration. (English summary) **2005h:65029**
Han, Ji Ye *see* **Xu, Da Chuan et al., 2005f:90125** *and* **Yin, Hong Xia et al., 2005h:90135**
Hazra, Subhendu Bikash (*with* Schulz, Volker) Simultaneous pseudo-timestepping for PDE-model based optimization problems. (English summary) **2005h:49076**
He, Guang Yu[2] (*with* Lu, Qiang[1]; Chen, Xue Qing) Feasible direction algorithm for solving nonlinear optimization problems. (Chinese. English and Chinese summaries) **2005g:90139**
Hou, Ding-pi *see* **Ou, Yi-gui, 2005k:90153**
Ingham, Derek B. *see* **Mera, N. S. et al., 2005g:65096**
Jian, Jin Bao A fast convergent algorithm of sequential systems of linear equations for inequality constrained optimization without strict complementarity. (Chinese. English and Chinese summaries) **2005e:90120**
Jüttler, Bert *see* **Chalmovianský, P., 2005k:65027**
Kouvaritakis, Basil (*with* Cannon, Mark; Rossiter, J. A.) Who needs QP for linear MPC anyway? (English summary)
Lazzari, C. *see* **Facchinei, F., 2005d:90116**
Lee, Chack Fan *see* **Chen, Jian[2] et al.**
Leyffer, Sven *see* **Fletcher, Roger, 2005a:90149** *and* **Gould, Nicholas I. M. et al.**
Liu, Xinwei (*with* Zhao, Gongyun) A decomposition method based on SQP for a class of multistage stochastic nonlinear programs. (English summary) **2005b:90082**
Lu, Qiang[1] *see* **He, Guang Yu[2] et al., 2005g:90139**
Ma, Chang Feng A smoothing Broyden-like method for the mixed complementarity problems. (English summary) **2005m:90132**
Marcotte, Patrice *see* **Colson, Benoît et al., 2005k:90111**
Mera, N. S. (*with* Elliott, Lionel; Ingham, Derek B.) A multi-population genetic algorithm approach for solving ill-posed problems. (English summary) **2005g:65096**
Modersitzki, Jan *see* **Haber, Eldad, 2005h:65029**
Nie, Pu Yan Filter methods for system of nonlinear equations. (Chinese. English and Chinese summaries) **2005m:65109**
Nocedal, Jorge *see* **Byrd, Richard H. et al., 2005c:90085** *and* **2005c:90112**
Ou, Yi-gui (*with* Hou, Ding-pi) A superlinearly convergent trust region algorithm for LC^1 constrained optimization problems. (English summary) **2005k:90153**
Qi, Liqun *see* **Yang, Yu-Fei, 2005h:90141**
Rawlings, James B. *see* **Tenny, Matthew J. et al., 2005a:90206**
Rogers, Eric *see* **Sule, V. R., 2005c:93085**
Rossiter, J. A. *see* **Kouvaritakis, Basil et al.**

Saito, Seiji On solving equations arising from optimization problems by some generalized Newton method. (English summary) **2005a:49060**
Savard, Gilles *see* **Colson, Benoît et al., 2005k:90111**
Schittkowski, Klaus *see* **van de Braak, Georg et al.**
Schnabel, Robert B. *see* **Bader, Brett W., 2005g:65085**
Scholtes, Stefan Nonconvex structures in nonlinear programming. (English summary) **2005a:90131**
Schulz, Volker *see* **Hazra, Subhendu Bikash, 2005h:49076**
Song, Yong Hua *see* **Ding, Xiaoying et al.**
Strodiot, Jean-Jacques *see* **Tran Thi Hue, 2005k:49032**
Sule, V. R. (*with* Rogers, Eric) A behavioral approach to the control of discrete linear repetitive processes. (English summary) **2005c:93085**
Sun, Wen Yu Nonmonotone trust region method for solving optimization problems. (English summary) **2005e:90124**
— *see also* **Yang, Zheng Hao, 2005k:90159**
Tenny, Matthew J. (*with* Wright, Stephen Joseph; Rawlings, James B.) Nonlinear model predictive control via feasibility-perturbed sequential quadratic programming. (English summary) **2005a:90206**
Toh, Kim-Chuan *see* **Chua, S. K. et al., 2005h:90088**
Toint, Philippe L. *see* **Gould, Nicholas I. M. et al.**
Tran Thi Hue (*with* Strodiot, Jean-Jacques) Convergence analysis of a relaxed extragradient-proximal point algorithm application to variational inequalities. (English summary) **2005k:49032**
Ulbrich, Stefan On the superlinear local convergence of a filter-SQP method. (English summary) **2005d:90120**
Vasil'ev, F. P. *see* **Antipin, A. S. et al., 2005d:90126**
Vaz, A. Ismael F. (*with* Fernandes, Edite M. G. P.; Gomes, M. Paula S. F.) A quasi-Newton interior point method for semi-infinite programming. (English summary) **2005b:90145**
Waltz, Richard A. *see* **Byrd, Richard H. et al., 2005c:90085** *and* **2005c:90112**
Wan, Zhong (*with* Zhou, Shu Zi) On the feasibility of mathematical programs with nonlinear complementarity constraints. (Chinese. English and Chinese summaries) **2005c:90101**
Wang, Xifan *see* **Ding, Xiaoying et al.**
Wright, Stephen Joseph *see* **Tenny, Matthew J. et al., 2005a:90206**
Wu, Li Ji (*with* Chen, Guo Qing) A new parameterized merit function for linear complementarity problems and a damped Newton method. (Chinese. English and Chinese summaries)
Xu, Da Chuan (*with* Han, Ji Ye; Chen, Zhong Wen) Nonmonotone trust-region method for nonlinear programming with general constraints and simple bounds. (English summary) **2005f:90125**
Xu, Ren Fei A hybrid method for solving unconstrained optimization problem with singular solutions. (Chinese. English and Chinese summaries)
Yang, Yu-Fei (*with* Qi, Liqun) Smoothing trust region methods for nonlinear complementarity problems with P_0-functions. (English summary) **2005h:90141**
Yang, Zheng Hao (*with* Sun, Wen Yu) A simpler proof of global convergence of Broyden class with inexact line search. (Chinese. English summary) **2005k:90159**
Yin, Hong Xia (*with* Han, Ji Ye; Chen, Zhong Wen) Global convergence of a trust region algorithm for nonlinear inequality constrained optimization problems. (English summary) **2005h:90135**
Yin, Jian-Hua *see* **Chen, Jian[2] et al.**
Zhang, Ju-Liang (*with* Chen, Jian; Zhuo, Xin-jian) A constrained optimization approach for LCP. (English summary) **2005e:90145**
Zhang, Ke Cun *see* **Zhu, Zhi Bin, 2005c:90092**
Zhang, Qun-ying *see* **Fan, Jin-yan et al., 2005f:90115**
Zhao, Gongyun *see* **Liu, Xinwei, 2005b:90082** *and* **Chua, S. K. et al., 2005h:90088**
Zhou, Shu Zi *see* **Wan, Zhong, 2005c:90101**
Zhu, De-tong Interior point projected reduced Hessian method with trust region strategy for nonlinear constrained optimization. (English summary) **2005f:90126**
Zhu, Zhi Bin (*with* Zhang, Ke Cun) A new conjugate projection gradient method and superlinear convergence. (Chinese. English and Chinese summaries) **2005c:90092**
Zhuo, Xin-jian *see* **Zhang, Ju-Liang et al., 2005e:90145**

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Andramonov, Mikhail The method of confidence neighborhoods for minimizing codifferentiable functions. (Russian) **2005j:90108**
Audet, Charles (*with* Dennis, John E., Jr.) A pattern search filter method for nonlinear programming without derivatives. (English summary) **2005j:90109**
Bratkovič, Franc *see* **Bűrmen, Árpád et al., 2005c:90119**
Bűrmen, Árpád (*with* Bratkovič, Franc; Puhan, Janez; Fajfar, Iztok; Tuma, Tadej) Extended global convergence framework for unconstrained optimization. (English summary) **2005c:90119**
Coope, Ian D. (*with* Price, Christopher J.) A direct search frame-based conjugate gradients method. (English summary) **2005f:90164**
Dennis, John E., Jr. *see* **Audet, Charles, 2005j:90109**
Fajfar, Iztok *see* **Bűrmen, Árpád et al., 2005c:90119**
Haarala, M. (*with* Miettinen, Kaisa; Mäkelä, M. M.) New limited memory bundle method for large-scale nonsmooth optimization. (English summary) **2005f:90165**
Likhovid, A. P. *see* **Shor, N. Z. et al., 2005f:90167**
Mäkelä, M. M. *see* **Haarala, M. et al., 2005f:90165**
Miettinen, Kaisa *see* **Haarala, M. et al., 2005f:90165**
Powell, M. J. D. Least Frobenius norm updating of quadratic models that satisfy interpolation conditions. (English summary) **2005f:90166**
Price, Christopher J. *see* **Coope, Ian D., 2005f:90164**
Puhan, Janez *see* **Bűrmen, Árpád et al., 2005c:90119**
Shor, N. Z. (*with* Zhurbenko, N. G.; Likhovid, A. P.; Stetsyuk, P. I.) Development of algorithms for nondifferentiable optimization and their applications. (Russian. English and Ukrainian summaries) **2005f:90167**
Stetsyuk, P. I. *see* **Shor, N. Z. et al., 2005f:90167**
Tuma, Tadej *see* **Bűrmen, Árpád et al., 2005c:90119**
Zaharie, Daniela Parameter adaption in differential evolution by controlling the population diversity. (English summary) **2005b:90164**
Zhurbenko, N. G. *see* **Shor, N. Z. et al., 2005f:90167**

Items with secondary classifications in 90C56

Balbas de la Corte, Alejandro (*with* Galperin, Efim A.; Jiménez Guerra, P.) Nonsmooth nonconvex global optimization in a Banach space with a basis. (English summary) **2005f:90113**
Bigil'deev, S. I. The simplex method as an adaptive algorithm. (Russian. Russian summary) **2005c:90122**
Brekelmans, Ruud (*with* Driessen, Lonneke; Hamers, Herbert; den Hertog, Dick) Constrained optimization involving expensive function evaluations: a sequential approach. (English summary)
Coope, Ian D. *see* **Dennis, John E., Jr. et al., 2005i:90067**
Dennis, John E., Jr. (*with* Price, Christopher J.; Coope, Ian D.) Direct search methods for nonlinearly constrained optimization using filters and frames. (English summary) **2005i:90067**
Driessen, Lonneke *see* **Brekelmans, Ruud et al.**
Ferris, Michael C. (*with* Munson, Todd S.) Semismooth support vector machines. (English summary) **2005c:90061**
Galperin, Efim A. *see* **Balbas de la Corte, Alejandro et al., 2005f:90113**
Hamers, Herbert *see* **Brekelmans, Ruud et al.**
Hanson, Morgan A. *see* **Husain, Iqbal et al., 2005e:90135**
den Hertog, Dick *see* **Brekelmans, Ruud et al.**
Husain, Iqbal (*with* Hanson, Morgan A.; Jabeen, Z.) On nondifferentiable fractional minimax programming. (English summary) **2005e:90135**
Jabeen, Z. *see* **Husain, Iqbal et al., 2005e:90135**
Jiménez Guerra, P. *see* **Balbas de la Corte, Alejandro et al., 2005f:90113**
Kearfott, Ralph Baker *see* **Muñoz, Humberto, 2005f:49047**
Kiwiel, Krzysztof C. Convergence of approximate and incremental subgradient methods for convex optimization. (English summary) **2005e:90090**
Kolda, Tamara G. (*with* Torczon, Virginia J.) On the convergence of asynchronous parallel pattern search. (English summary) **2005i:90068**
Kügler, Philipp A derivative-free Landweber iteration for parameter identification in certain elliptic PDEs. (English summary) **2005e:65176**
Lai, Kin Keung *see* **Mishra, Shashi K. et al., 2005f:90109**
Li, Dong Hui[1] *see* **Qi, Liqun et al., 2005c:65044**
Liu, Yan Qun *see* **Yiu, K. F. C. et al., 2005b:90170**
Liuzzi, Giampaolo (*with* Lucidi, Stefano; Piccialli, Veronica; Sotgiu, Antonello) A magnetic resonance device designed via global optimization techniques. (English summary) **2005f:92012**
Lucidi, Stefano *see* **Liuzzi, Giampaolo et al., 2005f:92012**
Mishra, Shashi K. (*with* Wang, Shou Yang; Lai, Kin Keung) Nondifferentiable multiobjective programming under generalized d-univexity. (English summary) **2005f:90109**
Muñoz, Humberto (*with* Kearfott, Ralph Baker) Slope intervals, generalized gradients, semigradients, slant derivatives, and csets. (English summary) **2005f:49047**
Munson, Todd S. *see* **Ferris, Michael C., 2005c:90061**
Piccialli, Veronica *see* **Liuzzi, Giampaolo et al., 2005f:92012**
Powell, M. J. D. On the use of quadratic models in unconstrained minimization without derivatives. (English summary) **2005d:90142**
Price, Christopher J. *see* **Dennis, John E., Jr. et al., 2005i:90067**
Qi, Liqun (*with* Tong, Xiao Jiao; Li, Dong Hui[1]) Active-set projected trust-region algorithm for box-constrained nonsmooth equations. (English summary) **2005c:65044**
Scholtes, Stefan Nonconvex structures in nonlinear programming. (English summary) **2005a:90131**
Sotgiu, Antonello *see* **Liuzzi, Giampaolo et al., 2005f:92012**
Teo, Kok Lay *see* **Yiu, K. F. C. et al., 2005b:90170**
Tong, Xiao Jiao *see* **Qi, Liqun et al., 2005c:65044**
Torczon, Virginia J. *see* **Kolda, Tamara G., 2005i:90068**
Wang, Shou Yang *see* **Mishra, Shashi K. et al., 2005f:90109**
Yiu, K. F. C. (*with* Liu, Yan Qun; Teo, Kok Lay) A hybrid descent method for global optimization. (English summary) **2005b:90170**

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Agnetis, Alessandro (*with* Rossi, Fabrizio; Smriglio, Stefano) An implicit enumeration scheme for the batch selection problem. (English summary) **2005e:90163**
Akrotirianakis, Ioannis G. (*with* Floudas, Christodoulos A.) Computational experience with a new class of convex underestimators: Box-constrained NLP problems. (English summary) **2005h:90171**
Althaus, Ernst (*with* Fink, Christian) A polyhedral approach to surface reconstruction from planar contours. (English summary) (*see* **2005a:90006**)
Atamtürk, Alper (*with* Muñoz, Juan Carlos) A study of the lot-sizing polytope. (English summary) **2005b:90165**
Balas, Egon (*with* Bockmayr, Alexander; Pisaruk, Nicolai; Wolsey, Laurence A.) On unions and dominants of polytopes. (English summary) **2005b:90166**
Bockmayr, Alexander *see* **Balas, Egon et al., 2005b:90166**
Caprara, Alberto (*with* Lodi, Andrea; Monaci, Michele) Fast approximation schemes for two-stage, two-dimensional bin packing. (English summary) **2005k:90221**
Carr, Robert D. Separation algorithms for classes of STSP inequalities arising from a new STSP relaxation. (English summary) **2005a:90197**
— (*with* Vempala, Santosh S.) On the Held-Karp relaxation for the asymmetric and symmetric traveling salesman problems. (English summary) **2005m:90168**
Darby-Dowman, K. *see* **Nwana, V. et al.**
De Bontridder, Koen M. J. (*with* Lageweg, B. J.; Lenstra, Jan Karel; Orlin, James B.; Stougie, Leen) Branch-and-bound algorithms for the test cover problem. (English summary) (*see* **2005c:68002**)

Dür, Mirjam (*with* Stix, Volker) Probabilistic subproblem selection in branch-and-bound algorithms. (English summary) **2005m:90169**
Eglese, Richard W. *see* **Lysgaard, Jens et al., 2005a:90200**
Eisenblätter, Andreas The semidefinite relaxation of the k-partition polytope is strong. (English summary) (*see* **2005a:90006**)
Fahle, Torsten Simple and fast: improving a branch-and-bound algorithm for maximum clique. (English summary) (*see* **2005c:68002**)
Falk, James E. *see* **Yepremyan, Lusine, 2005g:90173**
Fink, Christian *see* **Althaus, Ernst, (2005a:90006)**
Floudas, Christodoulos A. *see* **Akrotirianakis, Ioannis G., 2005h:90171**
Fujishige, Satoru Dual greedy polyhedra choice functions, and abstract convex geometries. (English summary) **2005f:90168**
Fukasawa, Ricardo (*with* Lysgaard, Jens; Poggi de Aragão, Marcus V.; Reis, Marcelo; Uchoa, Eduardo; Werneck, Renato F.) Robust branch-and-cut-and-price for the capacitated vehicle routing problem. (English summary) **2005m:90170**
Gau, Chao-Yang (*with* Schrage, Linus E.) Implementation and testing of a branch-and-bound based method for deterministic global optimization: operations research applications. (English summary) **2005a:90198**
Gil', N. I. *see* **Stoyan, Yu. G. et al., 2005k:90223**
(Guignard-Spielberg, Monique) *see* **Hahn, Peter M.**
Hahn, Peter M. Corrigendum to: "Tree elaboration strategies in branch-and-bound algorithms for solving the quadratic assignment problem" [Yugosl. J. Oper. Res. **11** (2001), no. 1, 41–60; MR1853381] by Hahn, W. L. Hightower, T. A. Johnson, M. Guignard-Spielberg and C. Roucairol.
(Hightower, William L.) *see* **Hahn, Peter M.**
Hochstättler, Winfried Oriented matroids from wild spheres. (English summary) **2005b:90167**
James, Ross J. W. (*with* Storer, R. H.) Techniques for solving subset sum problems within a given tolerance. (English summary)
(Johnson, Terri Anne) *see* **Hahn, Peter M.**
Jünger, Michael *see* **Mutzel, Petra, (2005b:90009)**
Kerivin, Hervé (*with* Mahjoub, Ali Ridha; Nocq, Charles) $(1,2)$-survivable networks: facets and branch-and-cut. (English summary) **2005c:90120**
— (*with* Mahjoub, Ali Ridha) On survivable network polyhedra. (English summary) **2005j:90110**
Kochol, Martin A note on approximation of a ball by polytopes. (English summary) **2005f:90169**
Kotov, Vladimir Dynamic bounds in partitioning problems. (Russian. English and Russian summaries)
Lageweg, B. J. *see* **De Bontridder, Koen M. J. et al., (2005c:68002)**
Lee, Jon[2] Cropped cubes. (English summary) **2005a:90199**
Lenstra, Jan Karel *see* **De Bontridder, Koen M. J. et al., (2005c:68002)**
Letchford, Adam N. *see* **Lysgaard, Jens et al., 2005a:90200**
Llanas, Bernardo Efficient computation of the Hausdorff distance between polytopes by exterior random covering. (English summary) **2005i:90103**
Lodi, Andrea *see* **Caprara, Alberto et al., 2005k:90221**
Lysgaard, Jens (*with* Letchford, Adam N.; Eglese, Richard W.) A new branch-and-cut algorithm for the capacitated vehicle routing problem. (English summary) **2005a:90200**
— *see also* **Fukasawa, Ricardo et al., 2005m:90170**
Magdalina, I. *see* **Stoyan, Yu. G. et al., 2005k:90223**
Mahjoub, Ali Ridha *see* **Kerivin, Hervé et al., 2005c:90120** *and* **2005j:90110**
Messine, Frédéric A deterministic global optimization algorithm for design problems. (English summary)
Mitra, Gautam *see* **Nwana, V. et al.**
Monaci, Michele *see* **Caprara, Alberto et al., 2005k:90221**
Muñoz, Juan Carlos *see* **Atamtürk, Alper, 2005b:90165**
Mutzel, Petra (*with* Jünger, Michael) Graph drawing: exact optimization helps! (*see* **2005b:90009**)
Naddef, Denis The domino inequalities for the symmetric traveling salesman problem. (English summary) **2005c:90121**
Nakamura, Masataka Characterizations of polygreedoids and poly-antimatroids by greedy algorithms. (English summary) **2005j:90111**
Nocq, Charles *see* **Kerivin, Hervé et al., 2005c:90120**
Nurmela, Kari J. Upper bounds for covering arrays by tabu search. (English summary) **2005a:90201**
Nwana, V. (*with* Darby-Dowman, K.; Mitra, Gautam) A two-stage parallel branch and bound algorithm for mixed integer programs. (English summary)
Orlin, James B. *see* **De Bontridder, Koen M. J. et al., (2005c:68002)**
Oswald, Marcus (*with* Reinelt, Gerhard) Computing optimal consecutive ones matrices. (*see* **2005b:90009**)
Pankratov, A. V. *see* **Stoyan, Yu. G. et al., 2005k:90223**
Pisaruk, Nicolai *see* **Balas, Egon et al., 2005b:90166**
Poggi de Aragão, Marcus V. *see* **Fukasawa, Ricardo et al., 2005m:90170**
Porembski, Marcus A new successive partition algorithm for concave minimization based on cone decomposition and decomposition cuts. (English summary) **2005d:90144**
Reinelt, Gerhard (*with* Wenger, Klaus M.) Small instance relaxations for the traveling salesman problem. (English summary) (*see* **2005d:90005**)
— *see also* **Oswald, Marcus, (2005b:90009)**
Reis, Marcelo *see* **Fukasawa, Ricardo et al., 2005m:90170**
Rossi, Fabrizio *see* **Agnetis, Alessandro et al., 2005e:90163**
(Roucairol, Catherine) *see* **Hahn, Peter M.**
Scheithauer, Guntram *see* **Stoyan, Yu. G. et al., 2005k:90223**
Schrage, Linus E. *see* **Gau, Chao-Yang, 2005a:90198**
Schrijver, Alexander Polyhedral combinatorics and combinatorial optimization. **2005k:90222**
Smriglio, Stefano *see* **Agnetis, Alessandro et al., 2005e:90163**
Sørensen, Michael M. b-tree facets for the simple graph partitioning polytope. (English summary) **2005b:90168**
Stix, Volker *see* **Dür, Mirjam, 2005m:90169**
Storer, R. H. *see* **James, Ross J. W.**
Stougie, Leen *see* **De Bontridder, Koen M. J. et al., (2005c:68002)**
Stoyan, Yu. G. (*with* Gil', N. I.; Scheithauer, Guntram; Pankratov, A. V.; Magdalina, I.) Packing of convex polytopes into a parallelepiped. (English summary) **2005k:90223**
Uchoa, Eduardo *see* **Fukasawa, Ricardo et al., 2005m:90170**
Vempala, Santosh S. *see* **Carr, Robert D., 2005m:90168**
Wang, Hai Ming (*with* Zhang, He Ping[2]) Adjacency on c-orientation polytopes in connected graphs. (English summary) **2005a:90202**
Wenger, Klaus M. *see* **Reinelt, Gerhard, (2005d:90005)**
Werneck, Renato F. *see* **Fukasawa, Ricardo et al., 2005m:90170**
Wolsey, Laurence A. *see* **Balas, Egon et al., 2005b:90166**
Xu, Cheng Xian *see* **Xue, Hong-gang et al., 2005f:90170**
Xu, Feng-min *see* **Xue, Hong-gang et al., 2005f:90170**
Xue, Hong-gang (*with* Xu, Cheng Xian; Xu, Feng-min) A branch and bound algorithm for separable concave programming. (English summary) **2005f:90170**
Yepremyan, Lusine (*with* Falk, James E.) Delaunay partitions in $\mathbf{R}^n$ applied to non-convex programs and vertex/facet enumeration problems. (English summary) **2005g:90173**
Yudaev, P. V. A ring algorithm for the problem of searching for minimal coverings that is not majorized. (Russian. Russian summary)
Zhang, He Ping[2] *see* **Wang, Hai Ming, 2005a:90202**
Zhu, Wenxing A provable better branch and bound method for a nonconvex integer quadratic programming problem. (English summary) **2005g:90174**

Items with secondary classifications in 90C57

Achterberg, Tobias (*with* Koch, Thorsten; Martin, Alexander) Branching rules revisited. (English summary)
Adjiman, C. S. (*with* Papamichail, I.) A deterministic global optimization algorithm for problems with nonlinear dynamics. (English summary) **2005a:49063**
Aguilera, Néstor E. (*with* Bianchi, Silvia M.; Nasini, Graciela L.) Lift and project relaxations for the matching and related polytopes. (English summary) **2005b:90076**
Ahmed, Shabbir[1] (*with* Tawarmalani, Mohit; Sahinidis, Nikolaos V.) A finite branch-and-bound algorithm for two-stage stochastic integer programs. (English summary) **2005a:90112**
Albrecher, Hansjörg A note on the asymptotic behaviour of bottleneck problems. (English summary) **2005f:90094**
Allahverdi, Ali *see* **Yeh, Wei-Chang, 2005a:90075**
Azimi, Parham *see* **Eshghi, Kourosh**
Babu, Pascal (*with* Péridy, Laurent; Pinson, Eric) A branch and bound algorithm to minimize total weighted tardiness on a single processor. (English summary) **2005c:90024**
Bai, Lihui (*with* Hearn, Donald W.; Lawphongpanich, Siriphong) Decomposition techniques for the minimum toll revenue problem. (English summary) **2005b:90017**
Baldacci, Roberto (*with* Hadjiconstantinou, E.; Mingozzi, Aristide) An exact algorithm for the capacitated vehicle routing problem based on a two-commodity network flow formulation. (English summary)
Balogh, László (*with* Illés, Tibor; Erbilen, Filiz) A simple proof of the generalized Farkas lemma for oriented matroids. (English summary) **2005a:90134**
Baptiste, Philippe (*with* Kenyon, Claire; Schrijver, Alexander) ★ Recherche opérationnelle. [Operational research]
— (*with* Carlier, Jacques; Jouglet, Antoine) A Branch-and-Bound procedure to minimize total tardiness on one machine with arbitrary release dates. (English summary) **2005a:90052**
Baptiste, Pierre *see* **El Houda Saadani, Nour et al., 2005e:90036**
Barbolina, T. M. *see* **Emets, O. A., 2005b:90095**
Barton, Paul I. *see* **Singer, A. B., 2005a:49059** *and* **2005h:90134**
Bazgan, Cristina (*with* Monnot, Jérôme; Paschos, Vangelis Th.; Serrière, Fabrice) On the differential approximation of MIN SET COVER. (English summary) **2005k:68082**
Belov, I. S. The alternating traveling salesman problem. (Russian. English summary) **2005i:90085**
Bianchi, Silvia M. *see* **Aguilera, Néstor E. et al., 2005b:90076**
Billionnet, Alain (*with* Soutif, Éric) An exact method based on Lagrangian decomposition for the $0-1$ quadratic knapsack problem. (English summary) **2005b:90077**
Bomze, Immanuel M. (*with* Locatelli, Marco) Undominated d.c. decompositions of quadratic functions and applications to branch-and-bound approaches. (English summary) **2005a:90119**
Borndörfer, Ralf Combinatorial packing problems. **2005f:90097**
Borradaile, Glencora (*with* Van Hentenryck, Pascal) Safe and tight linear estimators for global optimization. (English summary) **2005k:90110**
Bulfin, R. L. *see* **M'Hallah, Rym**
Bussieck, Michael R. (*with* Lindner, Thomas; Lübbecke, Marco E.) A fast algorithm for near cost optimal line plans. (English summary) **2005a:90108**
Caramia, Massimiliano (*with* Dell'Olmo, Paolo) Bounding vertex coloring by truncated multistage branch and bound. (English summary)
Carlier, Jacques *see* **Baptiste, Philippe et al., 2005a:90052**
Carr, Robert D. (*with* Vempala, Santosh S.) Randomized metarounding (extended abstract). (*see* **2005i:68003**)
Cerdeira, J. Orestes (*with* Pinto, Leonor S.) Requiring connectivity in the set covering problem. (English summary) **2005k:90184**
Ceselli, Alberto (*with* Righini, Giovanni) A branch-and-price algorithm for the capacitated p-median problem. (English summary) **2005j:90038**
Chabrier, Alain (*with* Danna, Emilie; Le Pape, Claude; Perron, Laurent) Solving a network design problem. (English summary)
Chen, Zhi Ping (*with* Li, Nai Cheng; Xi, Feng) A new branch and bound algorithm for solving comlex integer quadratic programming problems. (Chinese. English and Chinese summaries)
— (*with* Xi, Feng) A new branch-and-bound algorithm for solving large-scale complex integer convex quadratic programming problems. (Chinese. English and Chinese summaries) **2005k:90079**
Chiang, Liang-Chih *see* **Hsu, Hong-Chun et al., 2005k:68012**
Coja-Oghlan, Amin (*with* Goerdt, Andreas; Lanka, André; Schädlich, Frank) Certifying unsatisfiability of random $2k$-SAT formulas using approximation techniques. (English summary) **2005c:68087**

Conforti, Michele (*with* Cornuéjols, Gérard; Zambelli, Giacomo) Bicolorings and equitable bicolorings of matrices. (English summary) (*see* **2005b:90009**)
Cornuéjols, Gérard *see* **Conforti, Michele et al.**, (**2005b:90009**)
Crauwels, H. A. J. (*with* Potts, Chris N.; Van Oudheusden, Dirk; Van Wassenhove, L. N.) Branch and bound algorithms for single machine scheduling with batching to minimize the number of late jobs. (English summary) **2005k:90036**
Danna, Emilie *see* **Chabrier, Alain et al.**
Dash, Sanjeeb An exponential lower bound on the length of some classes of branch-and-cut proofs. (English summary) (*see* **2005a:90006**)
Dauzère-Pérès, Stéphane (*with* Sevaux, Marc) An exact method to minimize the number of tardy jobs in single machine scheduling. (English summary)
Degraeve, Zeger *see* **Peeters, Marc**
Della Croce, F. *see* **T'kindt, Vincent et al., 2005g:90062**
Dell'Amico, Mauro (*with* Martello, Silvano) A note on: "An exact algorithm for the identical parallel machine scheduling problem" [European J. Oper. Res. **152** (2004), no. 3, 758–769; MR2009598 (2004g:90046)] by E. Mokotoff. (English summary) **2005d:90045**
Dell'Olmo, Paolo *see* **Caramia, Massimiliano**
De Meneses, Cláudio N. (*with* Lu, Zhaosong; Oliveira, Carlos A. S.; Pardalos, Panos M.) Optimal solutions for the closest-string problem via integer programming. (English summary) **2005g:90086**
Demidenko, V. M. Construction of a relaxation of the polytope of the symmetric traveling salesman problem on the basis of a well-solvable Kalmanson case. (Russian. Russian summary) **2005k:90186**
Develin, Mike LP-orientations of cubes and crosspolytopes. (English summary) **2005g:52025**
Deza, Antoine (*with* Fukuda, Komei; Mizutani, Tomohiko[2]; Vo, Cong) On the face lattice of the metric polytope. (English summary) **2005g:52026**
Duchenne, Éric (*with* Laporte, Gilbert; Semet, Frédéric) Branch-and-cut algorithms for the undirected m-peripatetic salesman problem. (English summary) **2005g:90112**
Dunstall, Simon (*with* Wirth, Andrew) A comparison of branch-and-bound algorithms for a family scheduling problem with identical parallel machines. (English summary)
Elhedhli, Samir (*with* Goffin, Jean-Louis) The integration of an interior-point cutting plane method within a branch-and-price algorithm. (English summary) **2005a:90186**
El Houda Saadani, Nour (*with* Baptiste, Pierre; Moalla, Mohamed) The simple $F2//C$ max with forbidden tasks in first or last position: a problem more complex than it seems. (English summary) **2005e:90036**
Emets, O. A. (*with* Barbolīna, T. M.) Solution of problems of nonlinear conditional optimization on arrangements by the cut-off method. (Ukrainian. English and Ukrainian summaries) **2005b:90095**
Erbilen, Filiz *see* **Balogh, László et al., 2005a:90134**
Eshghi, Kourosh (*with* Azimi, Parham) Applications of mathematical programming in graceful labeling of graphs.
Esswein, Carl *see* **T'kindt, Vincent et al., 2005g:90062**
Euler, Reinhardt Coloring planar Toeplitz graphs and the stable set polytope. (English summary) **2005c:05152**
de Farias, Ismael R., Jr. (*with* Nemhauser, George L.) A polyhedral study of the cardinality constrained knapsack problem. (English summary) (*see* **2005a:90006**)
— *see also* **Richard, Jean-Philippe P. et al., 2005a:90106**
Fei, Pu Sheng *see* **Yan, Zi Zong**
Fekete, Sándor P. (*with* Schepers, Jörg) A general framework for bounds for higher-dimensional orthogonal packing problems. (English summary) **2005k:90120**
Feng, Quan Xi *see* **Gao, Pei Wang**
Fukuda, Komei *see* **Deza, Antoine et al., 2005g:52026**
Gambardella, Luca Maria *see* **Montemanni, R., 2005e:90099**
Gao, Pei Wang (*with* Feng, Quan Xi) Combining a cutting-bound method and the integral branch principle for solving integer linear programming. (Chinese. English and Chinese summaries)
Gioan, Emeric (*with* Las Vergnas, Michel) Bases, reorientations, and linear programming, in uniform and rank-3 oriented matroids. (English summary) **2005a:05053**
Gnatyuk, Yu. V. Algorithms for the best simultaneous uniform approximation of a family of functions continuous on a compact set by a Chebyshev subspace. (Ukrainian. English and Ukrainian summaries) **2005c:41026**
Goerdt, Andreas *see* **Coja-Oghlan, Amin et al., 2005c:68087**
Goffin, Jean-Louis *see* **Elhedhli, Samir, 2005a:90186** *and* **Gzara, Fatma, 2005m:90144**
Gordon, Gary Expected rank in antimatroids. (English summary) **2005f:05033**
Gouveia, Luis (*with* Magnanti, Thomas L.; Requejo, Cristina) A 2-path approach for odd-diameter-constrained minimum spanning and Steiner trees. (English summary) **2005g:90156**
(Grötschel, Martin) *see* **Sharpest cut, 2005b:90009**
Guenin, Bertrand Circuit Mengerian directed graphs. (English summary) **2005d:90097**
Gzara, Fatma (*with* Goffin, Jean-Louis) Exact solution of the centralized network design problem on directed graphs. (English summary) **2005m:90144**
Hadjiconstantinou, E. *see* **Baldacci, Roberto et al.**
Hassin, Refael (*with* Monnot, Jérôme) The maximum saving partition problem. (English summary) **2005h:90041**
Healy, Patrick (*with* Nikolov, Nikola S.) A branch-and-cut approach to the directed acyclic graph layering problem. (English summary) (*see* **2005a:68014**)
Hearn, Donald W. *see* **Bai, Lihui et al., 2005b:90017**
Hernández-Pérez, Hipólito (*with* Salazar González, Juan José) A branch-and-cut algorithm for a traveling salesman problem with pickup and delivery. (English summary) **2005k:90189**
Hoşten, Serkan (*with* Maclagan, Diane; Sturmfels, Bernd) Supernormal vector configurations. (English summary) **2005e:52019**
Hsu, Hong-Chun (*with* Chiang, Liang-Chih; Tan, Jimmy J. M.; Hsu, Lih-Hsing) Fault Hamiltonicity of augmented cubes. (English summary) **2005k:68012**
Hsu, Lih-Hsing *see* **Hsu, Hong-Chun et al., 2005k:68012**
Huang, Huei Chuen *see* **Teng, S. Y. et al., 2005f:90101**
Huygens, David (*with* Mahjoub, Ali Ridha; Pesneau, Pierre) Two edge-disjoint hop-constrained paths and polyhedra. (English summary) **2005i:90009**
Ibaraki, Toshihide *see* **Zhao, Liang[1] et al., 2005k:90194**
Illés, Tibor *see* **Balogh, László et al., 2005a:90134**
Illieva, Gallina M. A new search algorithm for optimal winner determination in combinatorial auction. (English summary) **2005k:91126**
Ismail, Mohd Vaseem (*with* Razzaq, Abdul) Chebyshev solution to a multivariate stratified sampling problem. (English summary)
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Jacobson, Sheldon H. (*with* Yücesan, Enver) Global optimization performance measures for generalized hill climbing algorithms. (English summary) **2005e:90166**
Jiang, Chuanwen (*with* Bompard, Etorre) A hybrid method of chaotic particle swarm optimization and linear interior for reactive power optimisation. (English summary)
— (*with* Bompard, Etorre) A novel chaotic mutation evolutionary programming for multi-objective optimization in power system. (English summary)
Jiao, Li Cheng *see* **Liu, Jing[1] et al.**, **2005b:90169**; **Xue, Ming Zhi et al.**, (**2005i:42002**) *and* **Zhong, Wei Cai et al.**
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Kulturel-Konak, Sadan (*with* Norman, Bryan A.; Coit, David W.; Smith, Alice E.) Exploiting tabu search memory in constrained problems. (English summary)
Laguna, Manuel (*with* Armentano, Vinícius A.) Lessons from applying and experimenting with scatter search. (English summary) (*see* **2005h:90007**)
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Lee, Jeong Tae *see* **Chen, Hai-feng et al.**
Li, Bing Yu *see* **Xiao, Yun Shi et al.**
Li, Chun Lian (*with* Wang, Xi Cheng; Zhao, Jin Cheng; Wu, Jin Ying) An information-entropy-based multi-population genetic algorithm. (Chinese. English and Chinese summaries)
Li, Jianqiang *see* **Yang, Xiao Hua[1] et al.**
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Littlefair, Guy *see* **Penev, Kalin**
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Liu, Jing[1] (*with* Zhong, Wei Cai; Fang, Liu; Jiao, Li Cheng) An organizational evolutionary algorithm for constrained and unconstrained optimization problems. (Chinese. English and Chinese summaries) **2005b:90169**
— *see also* **Zhong, Wei Cai et al.**
Liu, Yan Qun *see* **Yiu, K. F. C. et al.**, **2005b:90170**
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— *see also* **Campos, Vicente et al.**
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Maslov, Igor V. (*with* Gertner, Izidor) Reducing the computational cost of local search in the hybrid evolutionary algorithm with application to electronic imaging. (English summary)
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Obuchowicz, Andrzej (*with* Prętki, Przemysław) Phenotypic evolution with a mutation based on symmetric α-stable distributions. (English summary) **2005d:90147**
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Phan, Vinhthuy (*with* Skiena, Steven S.; Sumazin, Pavel) A model for analyzing black-box optimization. **2005c:90124**
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Poranen, Timo A simulated annealing algorithm for determining the thickness of a graph. (English summary)
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Regis, Rommel G. (*with* Shoemaker, Christine A.) Constrained global optimization of expensive black box functions using radial basis functions. (English summary)
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Ribeiro, Celso C. (*with* Vianna, Dalessandro S.) A GRASP/VND heuristic for the phylogeny problem using a new neighborhood structure. (English summary)
Rueda, Luis G. *see* **Oommen, B. John, 2005k:90226**
Ryoo, Hong Seo Robust metaheuristic algorithm for redundancy optimization in large-scale complex systems. (English summary)
Sarimveis, Haralambos (*with* Nikolakopoulos, Athanassios) A line up evolutionary algorithm for solving nonlinear constrained optimization problems. (English summary)
Schutte, Jaco F. (*with* Groenwold, Albert A.) A study of global optimization using particle swarms. (English summary)
Sergeev, Yaroslav D. Efficient partition of N-dimensional intervals in the framework of one-point-based algorithms. (English summary)
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Sun, Jianyong (*with* Zhang, Qingfu; Tsang, Edward P. K.) DE/EDA: a new evolutionary algorithm for global optimization. (English summary)
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Tjin, S. C. *see* **Zheng, R. T. et al.**
Triki, E. (*with* Collette, Yann; Siarry, Patrick) A theoretical study on the behavior of simulated annealing leading to a new cooling schedule. (English summary)
Tsang, Edward P. K. *see* **Sun, Jianyong et al.**
Vannelli, Anthony *see* **Kucar, Dorothy et al., 2005c:90123**
Vianna, Dalessandro S. *see* **Ribeiro, Celso C.**
Vitkovski, T. (*with* Antchak, A.) Genetic algorithms: a modern tool for searching for quasi-optimal solutions. (Russian. English, Russian and Ukrainian summaries)
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Wang, Hua Qiu (*with* Cao, Chang Xiu) Parallel particle swarm optimization based on simulated annealing. (Chinese. English and Chinese summaries)
Wang, Xi Cheng *see* **Li, Chun Lian et al.**
Wei, Lingyun (*with* Zhao, Mei) A niche hybrid genetic algorithm for global optimization of continuous multimodal functions. (English summary)
Wiegand, Stefan *see* **Igel, Christian et al., (2005m:41001)**
Woodruff, David L. General purpose metrics for solution variety. (English summary) (*see* **2005h:90007**)
Wu, Jin Ying *see* **Li, Chun Lian et al.**
Wu, Qi Di *see* **Xiao, Yun Shi et al.**
Xiao, Yun Shi (*with* Li, Bing Yu; Wu, Qi Di) Parallel model-learning ant colony optimization algorithm for TSP. (Chinese. English and Chinese summaries)
Xu, Xiao Yuan *see* **Zhou, Yu Ren et al.**
Xue, Ming Zhi (*with* Zhong, Wei Cai; Jiao, Li Cheng) Strong convergence for generalized abstract evolutionary algorithm. (English summary) (*see* **2005i:42002**)
Yang, Xiao Hua[1] (*with* Yang, Zhifeng; Lu, Gui Hua[1]; Li, Jianqiang) A gray-encoded, hybrid-accelerated, genetic algorithm for global optimizations in dynamical systems. (English summary)
Yang, Zhifeng *see* **Yang, Xiao Hua[1] et al.**
Yiu, K. F. C. (*with* Liu, Yan Qun; Teo, Kok Lay) A hybrid descent method for global optimization. (English summary) **2005b:90170**
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Zhang, Qingfu *see* **Sun, Jianyong et al.**
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Zhao, Jin Cheng *see* **Li, Chun Lian et al.**
Zhao, Mei *see* **Wei, Lingyun**
Zhao, Xinchao A greedy genetic algorithm for unconstrained global optimization. (English summary)
Zheng, R. T. (*with* Ngo, N. Q.; Shum, P.; Tjin, S. C.; Binh, Le Nguyen) A staged continuous tabu search algorithm for the global optimization and its applications to the design of fiber Bragg gratings. (English summary)
Zhong, Wei Cai (*with* Liu, Jing[1]; Fang, Liu; Jiao, Li Cheng) Combinatorial optimization using multi-agent evolutionary algorithm. (Chinese. English and Chinese summaries)
— *see also* **Liu, Jing[1] et al., 2005b:90169** *and* **Xue, Ming Zhi et al., (2005i:42002)**
Zhou, Huai Bei *see* **He, Lian Lian et al.**
Zhou, Yu Ren (*with* Min, Hua Qing; Xu, Xiao Yuan; Li, Yuan Xiang) A multi-objective evolutionary algorithm and its convergence. (Chinese. English and Chinese summaries)
Žilinskas, Antanas *see* **Calvin, James M., (2005c:90002)**
Zlochin, Mark (*with* Birattari, Mauro; Meuleau, Nicolas; Dorigo, Marco) Model-based search for combinatorial optimization: a critical survey. (English summary) **2005e:90167**

Items with secondary classifications in 90C59

Abdul-Jalbar, B. *see* **Sedeño-Noda, Antonio et al., 2005d:90010**
Abo-Sinna, Mahmoud A. *see* **Osman, M. S. et al., 2005c:90087**
Adil, Gajendra K. (*with* Ghosh, Jay B.) Maximum diversity/similarity models with extension to part grouping. (English summary)
Ahmadi, Samad (*with* Osman, Ibrahim H.) Density based problem space search for the capacitated clustering p-median problem. (English summary) **2005e:90069**
— (*with* Osman, Ibrahim H.) Greedy random adaptive memory programming search for the capacitated clustering problem. (English summary)
Akrotirianakis, Ioannis G. (*with* Floudas, Christodoulos A.) A new class of improved convex underestimators for twice continuously differentiable constrained NLPs. (English summary) **2005i:90065**
Alam, Teg (*with* Bari, Abdul) A heuristic approach for solving multi objective linear integer programming problem. (English summary)
Albareda-Sambola, Maria (*with* Díaz, Juan A.; Fernández Aréizaga, Elena) A compact model and tight bounds for a combined location-routing problem. (English summary)
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Al-Harkan, Ibrahim *see* **Bolat, Ahmet et al., 2005h:90032**
Ali, M. Montaz (*with* Törn, A.) Topographical differential evolution using pre-calculated differentials. (English summary) (*see* **2005c:90002**)
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Alrefaei, Mahmoud H. (*with* Andradóttir, Sigrún) Discrete stochastic optimization using variants of the stochastic ruler method. (English summary) **2005k:90086**
Alvarez-Valdes, R. (*with* Parreño, F.; Tamarit Goerlich, José Manuel) A tabu search algorithm for the pallet loading problem. (English summary) **2005f:90095**
Alvernhe, Eric *see* **Dupont, Audrey et al.**
Anderson, Edward J. (*with* Potts, Chris N.) Online scheduling of a single machine to minimize total weighted completion time. (English summary) **2005d:90043**
Andradóttir, Sigrún *see* **Alrefaei, Mahmoud H., 2005k:90086**
Aringhieri, Roberto (*with* Dell'Amico, Mauro) Solution of the Sonet ring assignment problem with capacity constraints. (English summary) (*see* **2005h:90007**)
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(Audet, Charles) *see* **Special Issue: Surrogate optimization**
Azizi, Nader (*with* Zolfaghari, Saeed) Adaptive temperature control for simulated annealing: a comparative study. (English summary)
Babel, Luitpold (*with* Kellerer, Hans[2]) Design of tariff zones in public transportation networks: theoretical results and heuristics. (English summary) **2005e:90007**
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Baldacci, Roberto (*with* Boschetti, Marco A.; Maniezzo, Vittorio; Zamboni, Marco) Scatter search methods for the covering tour problem. (English summary) (*see* **2005h:90007**)
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Bertel, S. (*with* Billaut, Jean-Charles) A genetic algorithm for an industrial multiprocessor flow shop scheduling problem with recirculation. (English summary)
Bertsimas, Dimitris (*with* Vempala, Santosh S.) Solving convex programs by random walks. (English summary) (*see* **2005i:68004**)

Bianchi, Leonora (*with* Knowles, Joshua; Bowler, Neill) Local search for the probabilistic traveling salesman problem: correction to the 2-p-opt and 1-shift algorithms. (English summary)
— *see also* **Mastrolilli, Monaldo**
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Bosch, Robert (*with* Trick, Michael A.) Constraint programming and hybrid formulations for three life designs. (English summary)
Boschetti, Marco A. (*with* Mingozzi, Aristide) The two-dimensional finite bin packing problem. I. New lower bounds for the oriented case. (English summary) **2005k:90077**
— (*with* Mingozzi, Aristide) The two-dimensional finite bin packing problem. II. New lower and upper bounds. (English summary) **2005k:90078**
— *see also* **Baldacci, Roberto et al., (2005h:90007)**
Bouillard, Philippe *see* **Filomeno Coelho, R.**
Bowler, Neill *see* **Bianchi, Leonora et al.**
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Brucker, Peter (*with* Kampmeyer, Thomas) Tabu search algorithms for cyclic machine scheduling problems. (English summary) **2005m:90029**
Bulger, D. W. (*with* Alexander, D. L. J.; Baritompa, W. P.; Wood, Graham R.; Zabinsky, Zelda B.) Expected hitting times for backtracking adaptive search. (English summary) **2005c:90056**
Buriol, L. S. (*with* Resende, Maurício G. C.; Ribeiro, Celso C.; Thorup, Mikkel) A hybrid genetic algorithm for the weight setting problem in OSPF/IS-IS routing. (English summary)
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Cappanera, Paola (*with* Trubian, Marco) A local-search-based heuristic for the demand-constrained multidimensional knapsack problem. (English summary) **2005j:90064**
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Cavory, G. (*with* Dupas, R.; Goncalves, Gilles) A genetic approach to solving the problem of cyclic job shop scheduling with linear constraints. (English summary)
Chakroborty, Partha (*with* Mandal, Arijit) An asexual genetic algorithm for the general single vehicle routing problem. (English summary)
Chan, Yupo (*with* Baker, S. F.) The multiple depot, multiple traveling salesmen facility-location problem: vehicle range, service frequency, and heuristic implementations. (English summary)
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Chen, Hua Fu (*with* Niu, Hai) A feasible trust region algorithm for nonlinear max-min problems. (Chinese. English and Chinese summaries)
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Chen, Yi-hua *see* **Xiao, Jian[5]**
Cheng, T. C. Edwin *see* **Wang, Xiuli, 2005g:90064**
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Chou, Fuh-Der (*with* Chang, Tzu-Yun; Lee, Ching-En) A heuristic algorithm to minimize total weighted tardiness on a single machine with release times. (English summary)
Chrobak, Marek (*with* Sgall, Jiří) The weighted 2-server problem. (English summary) **2005g:68038**
Chu, Shu-Chuan (*with* Roddick, John F.; Pan, Jeng-Shyang) Ant colony system with communication strategies. (English summary)
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Corry, Paul (*with* Kozan, Erhan) Ant colony optimisation for machine layout problems. (English summary)
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— *see also* **Ghamlouche, Ilfat et al., 2005e:90009**
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Cui, Xun-Xue (*with* Lin, Chuang) A preference-based multi-objective concordance genetic algorithm. (English and Chinese summaries)
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Dupont, Audrey (*with* Alvernhe, Eric; Vasquez, Michel) Efficient filtering and Tabu search on a consistent neighbourhood for the frequency assignment problem with polarisation. (English summary)
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— *see also* **Stochastic and global optimization, 2005c:90002**
Ebben, M. J. R. (*with* van der Heijden, Matthieu; van Harten, Aart) Dynamic transport scheduling under multiple resource constraints. (English summary)
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Frieze, Alan On random symmetric travelling salesman problems. (English summary) **2005j:05082**
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Galperin, Efim A. (*with* Ekel, P. Ya.) Synthetic realization approach to fuzzy global optimization via gamma algorithm. (English summary)
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Chinese summaries) **2005g:90113**
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— *see also* **Hvattum, Lars M. et al.**, **2005c:90049**; **Kochenberger, Gary A. et al.**, (**2005f:68006**); **Ugray, Zsolt et al.**, (**2005h:90007**) *and* **Løkketangen, Arne**, (**2005h:90007**)
Gog, Anca (*with* Dumitrescu, Dan) A new approach of genetic chromodynamics. (English summary)
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Gonçalves, José Fernando (*with* de Magalhães Mendes, Jorge José; Resende, Maurício G. C.) A hybrid genetic algorithm for the job shop scheduling problem. (English summary)
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Hu, Xiaolin (*with* Coello Coello, Carlos A.; Huang, Zhangcan) A new multi-objective evolutionary algorithm: neighbourhood exploring evolution strategy. (English summary)
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Kabamba, Pierre T. *see* **Kumar, Rajeeva et al.**
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— *see also* **Lewis, Mark W. et al.**
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Lacomme, Philippe (*with* Prins, Christian; Ramdane-Cherif, Wahiba) Competitive memetic algorithms for arc routing problems. (English summary)
Lai, J. (*with* Moraga, Claudio; Meyer zu Bexten, E.) An improved genetic algorithm for the travelling-salesman problem. (English summary)
Lai, Tsung-Chyan (*with* Sot·skov, Yu. N.; Sotskova, Nadezhda; Werner, Frank) Mean flow time minimization with given bounds of processing times. (English summary) **2005g:90058**
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Levitin, Gregory Optimal version sequencing in fault-tolerant programs. (English summary)
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Liu, Jenn-Long Novel orthogonal simulated annealing with fractional factorial analysis to solve global optimization problems. (English summary)
Liu, Jing[1] (*with* Zhong, Wei Cai; Fang, Liu; Jiao, Li Cheng) An organizational evolutionary algorithm for SAT problem. (Chinese. English and Chinese summaries)
Liu, Shiqiang (*with* Ong, Hoon Liong) Metaheuristics for the mixed shop scheduling problem. (English summary)
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— *see also* **Hvattum, Lars M. et al., 2005c:90049**
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— *see also* **Józefowska, Joanna et al., 2005a:90066**
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— (*with* Darby-Dowman, K.; Mitra, Gautam) A co-operative parallel heuristic for mixed zero-one linear programming: combining simulated annealing with branch and bound. (English summary)
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— (*with* Abo-Sinna, Mahmoud A.; Mousa, A. A.) An effective genetic algorithm approach to multiobjective routing problems (MORPs). (English summary)
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Paletta, Giuseppe *see* **Ghiani, Gianpaolo et al., 2005d:90130**
Palpant, Mireille (*with* Artigues, Christian; Michelon, Philippe) LSSPER: solving the resource-constrained project scheduling problem with large neighbourhood search. (English summary)
Palubeckis, Gintaras Multistart tabu search strategies for the unconstrained binary quadratic optimization problem. (English summary) **2005e:90072**
Pan, Jeng-Shyang *see* **Chu, Shu-Chuan et al.**
Pan, Wei[4] (*with* Jing, Yuan Wei) Reduced-order H_∞ controllers based on genetic algorithm. (Chinese. English and Chinese summaries)
Pandit, Vinayaka *see* **Arya, Vijay et al., 2005d:90064**
Parag, A. *see* **Lewin, D. R.**
Pardalos, Panos M. *see* **Pasiliao, Eduardo L. et al., 2005m:90099**
Parreño, F. *see* **Alvarez-Valdes, R. et al., 2005f:90095**
Parsopoulos, K. E. *see* **Pavlidis, N. G. et al., 2005g:91024**
Paschos, Stratos A. (*with* Paschos, Vangelis Th.; Zissimopoulos, Vassilis) The antennas preassignment problem. (English summary) **2005c:90041**
Paschos, Vangelis Th. *see* **Paschos, Stratos A. et al., 2005c:90041**
Pasiliao, Eduardo L. (*with* Pardalos, Panos M.; Pitsoulis, Leonidas S.) Branch and bound algorithms for the multidimensional assignment problem. (English summary) **2005m:90099**
Pathumnakul, Supachai (*with* Egbelu, Pius J.) Algorithm for minimizing weighted earliness penalty in single-machine problem. (English summary)
Pavlidis, N. G. (*with* Parsopoulos, K. E.; Vrahatis, M. N.) Computing Nash equilibria through computational intelligence methods. (English summary) **2005g:91024**
Pedroso, João Pedro Tabu search for mixed integer programming. (English summary) (*see* **2005h:90007**)
Pei, Yun *see* **Zhang, Fei Lian**
Pempera, Jarosław *see* **Grabowski, Józef**
Pencheva, Nevena *see* **Milanov, Peter et al.**
Penz, Bernard *see* **Sadfi, Cherif et al., 2005e:90042**
Perkgoz, C. (*with* Kato, Kosuke; Katagiri, Hideki; Sakawa, Masatoshi) An interactive fuzzy satisficing method for multiobjective stochastic integer programming problems through variance minimization model. (English summary)
Persson, Per (*with* Nordebo, Sven; Claesson, Ingvar) Design of discrete coefficient FIR filters by a fast entropy-directed deterministic annealing algorithm. (English summary) **2005i:93083**
Pesant, Gilles *see* **Rousseau, Louis-Martin et al., 2005f:90076**
Pferschy, Ulrich *see* **Mansini, Renata, 2005e:91088**

Pitsoulis, Leonidas S. *see* **Pasiliao, Eduardo L. et al., 2005m:90099**
Plummer, John C. *see* **Ugray, Zsolt et al., (2005h:90007)**
Pochet, Yves (*with* Van Vyve, Mathieu) A general heuristic for production planning problems. (English summary)
Polo, Carlo *see* **Fischetti, Matteo et al.**
Popova, Elmira *see* **Dimova, B. et al., 2005h:90105**
Posner, Marc E. *see* **Hall, Nicholas G., 2005f:90048** *and* **Yang, Jaehwan, 2005k:90048**
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Pranzo, Marco *see* **Meloni, Carlo et al., 2005e:90039**
Prestwich, Steven Incomplete dynamic backtracking for linear pseudo-Boolean problems. (English summary)
Prins, Christian A simple and effective evolutionary algorithm for the vehicle routing problem. (English summary) **2005d:90017**
— *see also* **Lacomme, Philippe et al.**
Prügel-Bennett, Adam When a genetic algorithm outperforms hill-climbing. (English summary) **2005a:90105**
Punnen, Abraham P. *see* **Orlin, James B. et al., 2005g:68199**
Qian, Weiyi *see* **Feng, En Min, 2005d:90091**
Quimper, Claude-Guy (*with* Golynski, Alexander; López-Ortiz, Alejandro; van Beek, Peter) An efficient bounds consistency algorithm for the global cardinality constraint. (English summary) **2005m:68189**
Quintanilla, Sacramento *see* **Valls Verdejo, Vicente et al.**
Ramalhinho Lourenço, Helena Logistics management: an opportunity for metaheuristics. (English summary) (*see* **2005h:90007**)
Ramdane-Cherif, Wahiba *see* **Lacomme, Philippe et al.**
Rao, Singiresu Sambasiva *see* **Xiong, Ying**
Rapine, Christophe *see* **Sadfi, Cherif et al., 2005e:90042**
Reda, Sherief *see* **Kahng, Andrew B., 2005b:90108**
Rego, César (*with* Leão, Pedro) A scatter search tutorial for graph-based permutation problems. (English summary) (*see* **2005h:90007**)
— *see also* **Metaheuristic optimization via memory and evolution, 2005h:90007** *and* **Kochenberger, Gary A. et al., (2005f:68006)**
Resende, Maurício G. C. *see* **Metaheuristics: computer decision-making, 2005b:90007**; **Gonçalves, José Fernando et al.** *and* **Buriol, L. S. et al.**
Ribeiro, Celso C. *see* **Buriol, L. S. et al.**
Riera-Ledesma, Jorge (*with* Salazar González, Juan José) A heuristic approach for the travelling purchaser problem. (English summary)
Rionda, Salvador Botello *see* **Hernández Aguirre, Arturo et al., 2005h:90117**
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Rosen, Scott L. (*with* Harmonosky, Catherine M.) An improved simulated annealing simulation optimization method for discrete parameter stochastic systems. (English summary) **2005d:90085**
Rothberg, Edward *see* **Danna, Emilie et al., 2005i:90037**
Rousseau, Louis-Martin (*with* Gendreau, Michel; Pesant, Gilles; Focacci, Filippo) Solving VRPTWs with constraint programming based column generation. (English summary) **2005f:90076**
Różycki, Rafał *see* **Józefowska, Joanna et al., 2005a:90066**
Ruiz, Rubén (*with* Maroto, Concepción; Alcaraz Soria, Javier) Solving the flowship scheduling problem with sequence dependent setup times using advanced metaheuristics. (English summary)
Ruszczyński, Andrzej *see* **Beraldi, Patrizia**
Sadeh, Norman M. *see* **Bollapragada, Ramesh**
Sadfi, Cherif (*with* Penz, Bernard; Rapine, Christophe; Błażewicz, Jacek; Formanowicz, Piotr) An improved approximation algorithm for the single machine total completion time scheduling problem with availability constraints. (English summary) **2005e:90042**
Safavi-Naeini, Safieddin *see* **Damavandi, Nader**
Sakawa, Masatoshi *see* **Perkgoz, C. et al.**
Salazar González, Juan José *see* **Riera-Ledesma, Jorge**
(Šaltenis, Vydūnas) *see* **Stochastic and global optimization, 2005c:90002**
Sanderson, Arthur C. *see* **Subbu, Raj, 2005a:90004**
Sarkar, Saswati Optimum scheduling and memory management in input queued switches with finite buffer space. (English summary) **2005f:90056**
Scantamburlo, Massimo *see* **Fischetti, Matteo et al.**
Schlottmann, Frank (*with* Seese, Detlef) Modern heuristics for finance problems: a survey of selected methods and applications. (English summary) (*see* **2005b:91009**)
— (*with* Seese, Detlef) A hybrid heuristic approach to discrete multi-objective optimization of credit portfolios. (English summary)
Schmieta, Stefan *see* **Balas, Egon et al., 2005i:90036**
Schmitt, Lothar M. Asymptotic convergence of scaled genetic algorithms to global optima. (English summary) (*see* **2005f:68006**)
Schulz, Andreas S. *see* **Orlin, James B. et al., 2005g:68199**
Scitovski, Rudolf *see* **Nyarko, Emmanuel Karlo, 2005a:93046**
Sedeño-Noda, Antonio (*with* Gutiérrez, José Miguel; Abdul-Jalbar, B.; Sicilia Rodríguez, J.) An $O(T \log T)$ algorithm for the dynamic lot size problem with limited storage and linear costs. (English summary) **2005d:90010**
Seese, Detlef *see* **Schlottmann, Frank, (2005b:91009)**
Sgall, Jiří *see* **Ebenlendr, Tomáš, 2005e:90035** *and* **Chrobak, Marek, 2005g:68038**
Shankar, Ravi *see* **Solimanpur, M. et al.**
Shchepin, E. V. (*with* Vakhaniya, Nodari N.) An optimal rounding gives a better approximation for scheduling unrelated machines. (English summary) **2005g:90061**
Shiina, Takayuki A Lagrangian relaxation and column generation algorithm for stochastic unit commitment problem. (English summary)
Shmoys, David B. *see* **Gomes, Carla P.**
Shmygelska, Alena (*with* Hoos, Holger H.) An improved ant colony optimisation algorithm for the 2D HP protein folding problem. (English summary) (*see* **2005f:68004**)
Shul'gina, O. N. A general scheme for solving a problem in scheduling theory that is NP hard in the strong sense. (Russian. Russian summary) **2005e:90044**
Shyu, Shyong Jian (*with* Yin, Peng-Yeng; Lin, Bertrand M. T.) An ant colony optimization algorithm for the minimum weight vertex cover problem. (English summary)
— (*with* Tsai, Ying Teh; Lee, Richard Char Tung) The minimal spanning tree preservation approaches for DNA multiple sequence alignment and evolutionary tree construction. (English summary) **2005h:92020**
Siarry, Patrick *see* **Collette, Yann, 2005b:90003**
Sicilia Rodríguez, J. *see* **Sedeño-Noda, Antonio et al., 2005d:90010**
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Snyman, Jan A. *see* **Bolton, Hermanus P. J. et al., 2005j:90077**
Soler Fernández, David (*with* Albiach, José; Martínez Molada, Eulalia; Micó, Juan Carlos) A heuristic procedure to solve a traveling salesman problem with time-dependent costs and time windows. (English summary)
Solimanpur, M. (*with* Vrat, P.; Shankar, Ravi) Ant colony optimization algorithm to the inter-cell layout problem in cellular manufacturing. (English summary)
Søndergaard, Jacob *see* **Madsen, Kaj, 2005j:90079**
Song, Xiaoyu *see* **Gu, Ming et al., 2005m:90048**
Soper, A. J. (*with* Walshaw, Chris; Cross, Mark) A combined evolutionary search and multilevel optimisation approach to graph-partitioning. (English summary) **2005k:05228**
Sotskov, Yu. N. *see* **Lai, Tsung-Chyan et al., 2005g:90058**
Sotskova, Nadezhda *see* **Lai, Tsung-Chyan et al., 2005g:90058**
Soukhal, A. (*with* Martineau, Patrick[2]) Resolution of a scheduling problem in a flowshop robotic cell. (English summary)
(de Sousa, Jorge Pinho) *see* **Metaheuristics: computer decision-making, 2005b:90007**
Stengel, Robert F. *see* **Wang, Qian[7]**
Storch, Tobias (*with* Wegener, Ingo) Real royal road functions for constant population size. (English summary) **2005a:90107**
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Stori, James A. *see* **Venkat, Vandana et al., 2005d:90110**
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Stummer, Christian *see* **Doerner, Karl et al., 2005e:91075**
Subbu, Raj (*with* Sanderson, Arthur C.) ★ Network-based distributed planning using coevolutionary algorithms. **2005a:90004**
Sun, Jia Guang *see* **Gu, Ming et al., 2005m:90048**
Sun, Minghe A tabu search heuristic for the uncapacitated facility location problem. (English summary) (*see* **2005h:90007**)
Tabata, Yoshio *see* **Han, Sangheon, (2005b:90008)**
Tadei, Roberto *see* **De Giovanni, Luigi et al.**
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Tang, Huanwen *see* **Ji, Mingjun**
Teghem, Jacques, Jr. *see* **Loukil, T. et al.**
Teng, S. Y. (*with* Ong, Hoon Liong; Huang, Huei Chuen) A comparative study of metaheuristics for vehicle routing problem with stochastic demands. (English summary)
Thonemann, Ulrich W. *see* **Kleinau, Peer, 2005d:90009**
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Törn, A. *see* **Ali, M. Montaz, (2005c:90002)**
Torsney, B. (*with* Mandal, Saumendranath) Multiplicative algorithms for constructing optimizing distributions: further developments. (English summary) (*see* **2005f:62009**)
Toussaint, Marc *see* **Igel, Christian et al., (2005m:41001)**
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Trubian, Marco *see* **Cappanera, Paola, 2005j:90064**
Tsai, Cheng-Fa (*with* Tsai, Chun-Wei; Tseng, Ching-Chang) A new hybrid heuristic approach for solving large traveling salesman problem. (English summary)
Tsai, Chun-Wei *see* **Tsai, Cheng-Fa et al.**
Tsai, Ying Teh *see* **Shyu, Shyong Jian et al., 2005h:92020**
Tseng, Ching-Chang *see* **Tsai, Cheng-Fa et al.**
Tulpan, Dan C. (*with* Hoos, Holger H.) Hybrid randomised neighbourhoods improve stochastic local search for DNA code design. (English summary) (*see* **2005f:68004**)
Tuyttens, D. *see* **Loukil, T. et al.**
Ugray, Zsolt (*with* Lasdon, Leon; Plummer, John C.; Glover, Fred W.; Kelly, Jim; Martí, Rafael) A multistart scatter search heuristic for smooth NLP and MINLP problems. (English summary) (*see* **2005h:90007**)
Vakhaniya, Nodari N. *see* **Shchepin, E. V., 2005g:90061**
Valenzuela, Jorge F. *see* **Balci, Huseyin Hakan**
Valls Verdejo, Vicente (*with* Ballestín, Francisco; Quintanilla, Sacramento) A population-based approach to the resource-constrained project scheduling problem. (English summary)
Vanier, Sonia *see* **Maurras, Jean François, 2005c:90014**
Van Vyve, Mathieu *see* **Pochet, Yves**
Vasiljević, Darko ★ Classical and evolutionary algorithms in the optimization of optical systems. **2005h:78003**
Vasquez, Michel *see* **Dupont, Audrey et al.**
Vazirani, Vijay V. *see* **Jain, Kamal, 2005b:90063**
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Vigo, Daniele *see* **Lodi, Andrea et al.**
Voß, Stefan (*with* Fink, Andreas; Duin, C. W.) Looking ahead with the pilot method. (English summary)
— *see also* **Derigs, Ulrich**
Vrahatis, M. N. *see* **Pavlidis, N. G. et al., 2005g:91024**

Vrat, P. *see* **Solimanpur, M. et al.**
Waligóra, Grzegorz *see* **Józefowska, Joanna et al., 2005a:90066** *and* **Mika, Marek et al.**
Walkowiak, Krzysztof Ant algorithm for flow assignment in connection-oriented networks. (English summary)
Wallace, Christopher Dewagne *see* **Balas, Egon et al., 2005i:90036**
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Walshaw, Chris Multilevel refinement for combinatorial optimisation problems. (English summary)
— *see also* **Soper, A. J. et al., 2005k:05228**
Wan, Weishui *see* **Igel, Christian et al., (2005m:41001)**
Wang, Feng-Sheng *see* **Lin, Yung-Chien et al., 2005c:90054**
Wang, Qian[7] (*with* Stengel, Robert F.) Robust control of nonlinear systems with parametric uncertainty. (English summary)
Wang, Xiuli (*with* Cheng, T. C. Edwin) Single machine scheduling with resource dependent release times and processing times. (English summary) **2005g:90064**
Watanabe, Keigo (*with* Hashem, M. M. A.) ★ Evolutionary computations. **2005c:93003**
Wee, Hui-Ming (*with* Yang, Po-Chung) The optimal and heuristic solutions of a distribution network. (English summary) **2005b:90016**
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Werner, Frank *see* **Lai, Tsung-Chyan et al., 2005g:90058**
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Winker, Peter (*with* Gilli, Manfred) Applications of optimization heuristics to estimation and modelling problems. (English summary)
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Wong, Kit Po (*with* Dong, Zhao Yang) Special issue on evolutionary computation for systems and control applications.
Wood, Graham R. *see* **Bulger, D. W. et al., 2005c:90056** *and* **Kristinsdottir, Birna P. et al., 2005h:90056**
Wu, Xiao Jun[1] *see* **Gao, Shang et al., 2005g:90113**
Xiao, Jian[5] (*with* Chen, Yi-hua) Algorithm for solving the bi-level decision making problem with continuous vairables in the upper level based on genetic algorithm. (English summary)
Xie, Jinxing (*with* Xing, Wenxun; Liu, Zhixin; Dong, Jiefang) Minimum deviation algorithm for two-stage no-wait flowshops with parallel machines. (English summary) **2005c:90034**
Xie, Tao (*with* Chen, Huo Wang; Kang, Li Shan) A fast algorithm of quadratic knapsack problem. (Chinese. English and Chinese summaries)
Xing, Wenxun *see* **Xie, Jinxing et al., 2005c:90034**
Xiong, Ying (*with* Rao, Singiresu Sambasiva) Fuzzy nonlinear programming for mixed-discrete design optimization through hybrid genetic algorithm. (English summary)
Yan, Kang *see* **Huang, Wen Qi[1], 2005i:05031**
Yang, Jaehwan (*with* Posner, Marc E.) Scheduling parallel machines for the customer order problem. (English summary) **2005k:90048**
Yang, Jian[4] (*with* Leung, Joseph Y.-T.) A generalization of the weighted set covering problem. (English summary) **2005k:90193**
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Yang, Po-Chung *see* **Wee, Hui-Ming, 2005b:90016**
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Yin, Peng-Yeng *see* **Shyu, Shyong Jian et al.**
Yu, Wen-Shyong Finite precision optimal controllers design using genetic algorithms. (English summary)
Zabinsky, Zelda B. *see* **Bulger, D. W. et al., 2005c:90056** *and* **Kristinsdottir, Birna P. et al., 2005h:90056**
Zamboni, Marco *see* **Baldacci, Roberto et al., (2005h:90007)**
Zhang, Cai Wen (*with* Ong, Hoon Liong) Solving the biobjective zero-one knapsack problem by an efficient LP-based heuristic. (English summary) **2005h:90074**
Zhang, Fei Lian (*with* Pei, Yun) Convex hull and constriction method of TSP. (Chinese. English and Chinese summaries)
Zhang, Jian[1] *see* **Ji, Xiao-Hui**
Zhang, Li Biao (*with* Zhou, Chun Guang; Liu, Xiao Hua[3]; Ma, Ming; Lü, Ying Hua; Ma, Zhi Qiang) A novel evolutionary algorithm for solving constrained optimization problems. (Chinese. English and Chinese summaries)
Zhong, Wei Cai *see* **Liu, Jing[1] et al.**
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Zissimopoulos, Vassilis *see* **Paschos, Stratos A. et al., 2005c:90041**
Zoghby, Jeriad (*with* Barnes, J. Wesley; Hasenbein, John J.) Modeling the reentrant job shop scheduling problem with setups for metaheuristic searches. (English summary)
Zolfaghari, Saeed *see* **Azizi, Nader**

Items listed otherwise than by author

Frontiers of evolutionary computation ★ Frontiers of evolutionary computation. **2005f:68006**
Metaheuristic optimization via memory and evolution ★ Metaheuristic optimization via memory and evolution. **2005h:90007**
Metaheuristics: computer decision-making ★ Metaheuristics: computer decision-making. **2005b:90007**
Porto ★ Metaheuristics: computer decision-making. **2005b:90007**
Special Issue:
Surrogate optimization ★ Special issue on surrogate optimization.
Stochastic and global optimization ★ Stochastic and global optimization. **2005c:90002**

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Averbakh, Igor (*with* Lebedev, V. N.) On the complexity of minmax regret linear programming. (English summary) **2005f:90174**
Calvin, James M. Lower bound on complexity of optimization of continuous functions. (English summary) **2005c:90125**
Coja-Oghlan, Amin Coloring k-colorable semirandom graphs in polynomial expected time via semidefinite programming. (English summary) (*see* **2005b:68019**)
Correa, José R. (*with* Schulz, Andreas S.; Stier Moses, Nicolás E.) Computational complexity, fairness, and the price of anarchy of the maximum latency problem. (English summary) (*see* **2005m:90001**)
Cucker, Felipe (*with* Wschebor, Mario) On the expected condition number of linear programming problems. (English summary) **2005m:90172**
Fan, Jin-yan Generalized separation theorems and the Farkas' lemma. (English summary) **2005m:90173**
Freund, Robert M. Complexity of convex optimization using geometry-based measures and a reference point. (English summary) **2005c:90126**
— (*with* Ordóñez, Fernando) On an extension of condition number theory to nonconic convex optimization. (English summary) **2005k:90227**
— *see also* **Ordóñez, Fernando, 2005f:90175**
Fukuda, Komei (*with* Rosta, V.) Exact parallel algorithms for the location depth and the maximum feasible subsystem problems. (English summary) **2005e:90168**
Glaßer, Christian (*with* Reith, Steffen; Vollmer, Heribert) The complexity of base station positioning in cellular networks. (English summary) **2005k:90228**
Huang, Hong-Xuan *see* **Prokopyev, Oleg Alexan et al., 2005h:90175**
Kim, B. J. *see* **Yeun, Y. S. et al.**
Kimura, Hidenori *see* **Oishi, Yasuaki**
Kleinberg, Jon (*with* Papadimitriou, Christos H.; Raghavan, Prabhakar) Segmentation problems. (English summary) **2005m:90174**
Lebedev, V. N. *see* **Averbakh, Igor, 2005f:90174**
Oishi, Yasuaki (*with* Kimura, Hidenori) Computational complexity of randomized algorithms for solving parameter-dependent linear matrix inequalities. (English summary)
Ordóñez, Fernando (*with* Freund, Robert M.) Computational experience and the explanatory value of condition measures for linear optimization. (English summary) **2005f:90175**
— *see also* **Freund, Robert M., 2005k:90227**
Papadimitriou, Christos H. *see* **Kleinberg, Jon et al., 2005m:90174**
Pardalos, Panos M. *see* **Prokopyev, Oleg Alexan et al., 2005h:90175**
Prokopyev, Oleg Alexan (*with* Huang, Hong-Xuan; Pardalos, Panos M.) On complexity of unconstrained hyperbolic 0-1 programming problems. (English summary) **2005h:90175**
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Ruy, W. S. *see* **Yeun, Y. S. et al.**
Schulz, Andreas S. *see* **Correa, José R. et al., (2005m:90001)**
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Stier Moses, Nicolás E. *see* **Correa, José R. et al., (2005m:90001)**
Vollmer, Heribert *see* **Glaßer, Christian et al., 2005k:90228**
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Yang, Youngsoon *see* **Yeun, Y. S. et al.**
Yeun, Y. S. (*with* Yang, Youngsoon; Ruy, W. S.; Kim, B. J.) Polynomial genetic programming for response surface modeling. I. A methodology. (English summary)
— (*with* Kim, B. J.; Yang, Youngsoon; Ruy, W. S.) Polynomial genetic programming for response surface modeling. II. Adaptive approximate models with probabilistic optimization problems. (English summary)
Zolezzi, Tullio Condition number theorems in optimization. (English summary) **2005e:90169**

Items with secondary classifications in 90C60

Ahmed, Shabbir[1] (*with* Guan, Yongpei) The inverse optimal value problem. (English summary) **2005m:90058**
Ahr, Dino (*with* Békési, József; Galambos, Gábor; Oswald, Marcus; Reinelt, Gerhard) An exact algorithm for scheduling identical coupled tasks. (English summary) **2005a:90051**
Amini, Keyvan (*with* Peyghami, M. R.) An interior point method for linear programming based on a class of kernel functions. (English summary) **2005m:90157**
Apollonio, N. (*with* Caccetta, Louis; Simeone, Bruno) Cardinality constrained path covering problems in grid graphs. (English summary) **2005b:90146**
Armstrong, Derek E. (*with* Jacobson, Sheldon H.) Polynomial transformations and data-independent neighborhood functions. (English summary) **2005e:90070**
Ausiello, G. (*with* Bazgan, Cristina; Demange, Marc; Paschos, Vangelis Th.) Completeness in differential approximation classes (extended abstract). (English summary) (*see* **2005b:68020**)
Avella, Pasquale (*with* Boccia, Maurizio; Di Martino, Carmine; Oliviero, Giuseppe; Sforza, Antonio; Vasil′ev, Igor) A decomposition approach for a very large scale optimal diversity management problem. (English summary) **2005m:90049**
Averbakh, Igor (*with* Berman, Oded; Chernykh, Ilya) The m-machine flowshop problem with unit-time operations and intree precedence constraints. (English summary) **2005g:90042**
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Bazgan, Cristina *see* **Ausiello, G. et al., (2005b:68020)**
Beck, Amir (*with* Teboulle, Marc) A conditional gradient method with linear rate of convergence for solving convex linear systems. (English summary) **2005b:90092**

Beier, René (*with* Vöcking, Berthold) Typical properties of winners and losers in discrete optimization. (English summary) **2005j:90047**
Békési, József *see* **Ahr, Dino et al., 2005a:90051**
Bereznev, V. A. On the polynomial complexity of a modified simplex method. (Russian. Russian summary) **2005j:90042**
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Billaut, Jean-Charles *see* **Bouquard, Jean-Louis et al., 2005h:90033**
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Böckenhauer, Hans-Joachim (*with* Hromkovič, Juraj; Klasing, Ralf; Seibert, Sebastian; Unger, Walter) Towards the notion of stability of approximation for hard optimization tasks and the traveling salesman problem. (English summary) **2005b:68285**
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Boros, Endre (*with* Elbassioni, Khaled M.; Gurvich, Vladimir; Khachiyan, Leonid; Makino, Kazuhisa) On generating all minimal integer solutions for a monotone system of linear inequalities. (English summary) (*see* **2005a:68007**)
Bouquard, Jean-Louis (*with* Billaut, Jean-Charles; Kubzin, M. A.; Strusevich, V. A.) Two-machine flow shop scheduling problems with no-wait jobs. (English summary) **2005h:90033**
Breukelaar, Ron (*with* Demaine, Erik D.; Hohenberger, Susan; Hoogeboom, Hendrik Jan; Kosters, Walter A.; Liben-Nowell, David) Tetris is hard, even to approximate. (English summary) **2005e:91038**
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Brucker, Peter (*with* Dhaenens-Flipo, Clarisse; Knust, Sigrid; Kravchenko, Svetlana A.; Werner, Frank) Complexity results for parallel machine problems with a single server. (English summary) **2005a:90055**
— (*with* Knust, Sigrid; Cheng, T. C. Edwin; Shakhlevich, N. V.) Complexity results for flow-shop and open-shop scheduling problems with transportation delays. (English summary) **2005a:90057**
Bruglieri, Maurizio (*with* Maffioli, Francesco; Ehrgott, Matthias) Cardinality constrained minimum cut problems: complexity and algorithms. (English summary) **2005c:90072**
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Cai, Zi Xing (*with* Gong, Tao) Advances in research on immune algorithms. (Chinese. English and Chinese summaries)
Campos, Vicente (*with* Laguna, Manuel; Martí, Rafael) Context-independent scatter and tabu search for permutation problems. (English summary)
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— *see also* **Brucker, Peter et al., 2005a:90057**; **Yuan, Jin Jiang et al., 2005a:90076**; **Liu, Zhaohui, 2005b:90048**; **Tian, Z. J. et al., 2005j:90030** *and* **He, Yong[1] et al., 2005k:90037**
Chernykh, Ilya *see* **Averbakh, Igor et al., 2005g:90042**
Cheung, Dennis (*with* Cucker, Felipe; Ye, Yinyu) Linear programming and condition numbers under the real number computation model. **2005f:90063**
— (*with* Cucker, Felipe) Solving linear programs with finite precision. I. Condition numbers and random programs. (English summary) **2005e:90058**
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Corradini, Maria Letizia (*with* Orlando, Giuseppe) Authors' reply to: "Comments on: 'Variable structure control of discretized continuous-time systems'" [IEEE Trans. Automat. Control **50** (2005), no. 4, 538–540; MR2125444] by N. V. Paranjpe and S. B. Phadke.
— *see also* **Paranjpe, N. V.**
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Demaine, Erik D. (*with* Hohenberger, Susan; Liben-Nowell, David) Tetris is hard, even to approximate. (English summary) (*see* **2005a:05002**)
— *see also* **Breukelaar, Ron et al., 2005e:91038**
Demange, Marc (*with* Paschos, Vangelis Th.) Polynomial approximation algorithms with performance guarantees: an introduction-by-example. (English summary) **2005j:90066**
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Engebretsen, Lars (*with* Karpinski, Marek) Approximation hardness of TSP with bounded metrics. (English summary) (*see* **2005a:68007**)
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Golbasi, Hakan *see* **Wu, S. David, 2005h:90012**
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Greenberg, Ronald I. Fast and space-efficient location of heavy or dense segments in run-length encoded sequences (extended abstract). (English summary) (*see* **2005a:05002**)
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Gurvich, Vladimir *see* **Boros, Endre et al., (2005a:68007)**
Gurvits, Leonid (*with* Samorodnitsky, Alex) A deterministic polynomial-time algorithm for approximating mixed discriminant and mixed volume. (*see* **2005i:68003**)
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Hall, Alexander (*with* Hippler, Steffen; Skutella, Martin) Multicommodity flows over time: efficient algorithms and complexity. (English summary) **2005m:90012**
Hassin, Refael (*with* Rubinstein, Shlomi) On the complexity of the k-customer vehicle routing problem. (English summary)
He, Jun (*with* Yao, Xin) Time complexity analysis of an evolutionary algorithm for finding nearly maximum cardinality matching. (English summary)
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He, Yong[1] (*with* Tan, Zhiyi) Randomized on-line and semi-on-line scheduling on identical machines. (English summary) **2005i:90022**
— (*with* Ji, Min[2]; Cheng, T. C. Edwin) Single machine scheduling with a restricted rate-modifying activity. (English summary) **2005k:90037**
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Hudry, Olivier A note on: "Banks winners in tournaments are difficult to recognize" [Soc. Choice Welf. **20** (2003), no. 3, 523–528; MR1983510 (2004e:05087)] by G. J. Woeginger. (English summary) **2005d:05071**
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Malewicz, Grzegorz *see* **Bar-Noy, Amotz, 2005a:90083**
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Marx, Dániel A short proof of the NP-completeness of minimum sum interval coloring. (English summary) **2005k:68076**

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McLennan, Andrew The expected number of Nash equilibria of a normal form game. (English summary) **2005h:91013**
Mishra, Sounaka (*with* Sikdar, Kripasindhu) On approximability of linear ordering and related NP-optimization problems on graphs. (English summary) **2005a:90170**
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Munier Kordon, Alix Minimizing makespan for a bipartite graph on a single processor with an integer precedence delay. (English summary) **2005b:90050**
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Pan, Rui (*with* Zhu, Da Ming; Ma, Shao Han; Xiao, Jin Jie) Approximated computational hardness and local search approximated algorithm analysis for k-median problem. (Chinese. English and Chinese summaries) **2005m:68259**
Paranjpe, N. V. (*with* Phadke, S. B.) Comments on: "Variable structure control of discretized continuous-time systems" [IEEE Trans. Automat. Control **43** (1998), no. 9, 1329–1334; MR1640113] by M. L. Corradini and G. Orlando. (English summary)
— *see also* **Corradini, Maria Letizia**
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Sergienko, Ivan V. (*with* Shilo, V. P.; Roshchin, V. A.) Parallelization of the optimization process for discrete programming problems. (Russian. English and Ukrainian summaries)
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Sikdar, Kripasindhu *see* **Mishra, Sounaka, 2005a:90170**
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Sitters, René A. The minimum latency problem is NP-hard for weighted trees. (English summary) (*see* **2005a:90006**)
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Soukhal, A. (*with* Oulamara, A.; Martineau, Patrick[2]) Complexity of flow shop scheduling problems with transportation constraints. (English summary) **2005e:90008**
van Stee, Rob An approximation algorithm for square packing. (English summary) **2005b:68290**
Steger, Angelika Approximability of NP-optimization problems. **2005a:68080**
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Tompkins, Dave A. D. (*with* Hoos, Holger H.) Scaling and probabilistic smoothing: dynamic local search for unweighted MAX-SAT. (English summary) (*see* **2005f:68004**)
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Wu, Bang Ye Constructing the maximum consensus tree from rooted triples. (English summary) **2005c:90106**
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— *see also* **Cheng, T. C. Edwin et al., 2005c:90027**
Zhang, Guochuan A 3-approximation algorithm for two-dimensional bin packing. (English summary)
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Zhang, Yu Zhong[1] (*with* Wang, Lin) NP-completeness of a new batch scheduling problem. (Chinese. English and Chinese summaries) **2005k:90051**
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Arenas Parra, M. Mar (*with* Bilbao Terol, Amelia; Pérez-Gladish, Blanca; Rodríguez-Uría, M. Victoria) Solving a multiobjective possibilistic problem through compromise programming. (English summary) **2005g:90177**
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de Baets, Bernard (*with* De Meyer, Hans) Transitivity-preserving fuzzification schemes for cardinality-based similarity measures. (English summary) **2005d:90149**
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Bilbao Terol, Amelia *see* **Arenas Parra, M. Mar et al., 2005g:90177** *and* **Jiménez, Mariano et al.**
Bit, A. K. Fuzzy programming with hyperbolic membership functions for multiobjective capacitated transportation problem. (English summary)
— Fuzzy programming with hyperbolic membership functions for multiobjective capacitated solid transportation problem. (English summary)
Chalco-Cano, Yurilev (*with* Rojas-Medar, Marko A.; Osuna-Gómez, R.) s-convex fuzzy processes. (English summary) **2005d:90148**
Chandra, Suresh *see* **Bector, C. R. et al.**
Chen, Shih-Pin Parametric nonlinear programming approach to fuzzy queues with bulk service. (English summary)
Cheng, Wei-Hou *see* **Wu, Shu-Yu**
Chuang, Tzung-Nan (*with* Kung, Jung-Yuan) The fuzzy shortest path length and the corresponding shortest path in a network. (English summary)
Das, Makani (*with* Baurah, Hemanta K.) Solution of a linear programming problem with fuzzy data. (English summary) **2005j:90113**
De Meyer, Hans *see* **de Baets, Bernard, 2005d:90149**
Dumitrescu, Silviu *see* **Pop, Bogdana, 2005a:90204**
Ekel, P. Ya. *see* **Galperin, Efim A.**
Fan, Yu Shun *see* **Zhang, Xiao Li et al.**

Gaeta, Matteo (*with* Giordano, Paola; Iovane, Gerardo) An optimization technique for image compression. (English summary)
Galperin, Efim A. (*with* Ekel, P. Ya.) Synthetic realization approach to fuzzy global optimization via gamma algorithm. (English summary)
Gao, Jinwu (*with* Lu, Mei[1]) Fuzzy quadratic minimum spanning tree problem. (English summary) **2005k:90229**
— (*with* Liu, Baoding) Fuzzy multilevel programming with a hybrid intelligent algorithm. (English summary)
Giordano, Paola *see* **Gaeta, Matteo et al.**
Gong, Yan De (*with* Zeng, Xue Lan) Conditions of strong rank preservation for adding new elements in fuzzy complementary judgement matrices. (Chinese. English and Chinese summaries)
Guo, Yao Huang *see* **Li, Yinzhen[2]**
Guu, Sy-Ming *see* **Wu, Yan-Kuen, 2005f:90179**
Han, Tzeu-Chen *see* **Liang, Gin-Shuh**
Hassian, M. L. (*with* Khalifa, H. A.; Ammar, E. E.) A parametric approach for solving the multicriteria linear fractional programming problem. (English summary) **2005f:90176**
Hryniewicz, Olgierd User-preferred solutions of fuzzy optimization problems—an application in choosing user-preferred inspection intervals. (English summary) **2005b:90171**
Inuiguchi, Masahiro Enumeration of all possibly optimal vertices with possible optimality degrees in linear programming problems with a possibilistic objective function. (English summary) **2005g:90178**
— (*with* Tanino, Tetsuzo) Fuzzy linear programming with interactive uncertain parameters. (English summary) **2005c:90129**
Iovane, Gerardo *see* **Gaeta, Matteo et al.**
Ishii, Hiroaki[1] *see* **Katagiri, Hideki et al., 2005b:90172** *and* **2005i:90106**
Iskander, Maged George A possibility programming approach for stochastic fuzzy multiobjective linear fractional programs. (English summary)
— A suggested approach for possibility and necessity dominance indices in stochastic fuzzy linear programming. (English summary) **2005i:90105**
Jia, Lixing *see* **Syau, Yu-Ru et al., 2005f:90178**
Jiménez, Mariano (*with* Arenas Parra, M. Mar; Bilbao Terol, Amelia; Rodríguez-Uría, M. Victoria) Approximate resolution of an imprecise goal programming model with nonlinear membership functions. (English summary)
Jin, Yaochu *see* **Wang, Hanli et al.**
Jin, Yi Hui *see* **Zhou, Wei**
Joghataie, Abdolreza (*with* Allahverdipur, Navid H.) Iterative univariate optimization of nonlinear trusses with fuzzy strain constraints. (English summary)
Kabadi, S. N. *see* **Li, Lushu et al.**
Kacprzyk, Janusz Fuzzy dynamic programming with stochastic systems under various aggregation operators: solvability and perceived meaning. (*see* **2005i:62007**)
Kasperski, Adam A possibilistic approach to sequencing problems with fuzzy parameters. (English summary) **2005g:90179**
Katagiri, Hideki (*with* Ishii, Hiroaki[1]; Sakawa, Masatoshi) On fuzzy random linear knapsack problems. (English summary) **2005b:90172**
— (*with* Sakawa, Masatoshi; Kato, Kosuke; Nishizaki, Ichiro) A fuzzy random multiobjective 0-1 programming based on the expectation optimization model using possibility and necessity measures. (English summary) **2005e:90170**
— (*with* Sakawa, Masatoshi; Ishii, Hiroaki[1]) A study on fuzzy random portfolio selection problems based on possibility and necessity measures. (English summary) **2005i:90106**
— *see also* **Sakawa, Masatoshi et al., 2005b:90175** *and* **Nishizaki, Ichiro et al.**
Kato, Kosuke *see* **Sakawa, Masatoshi et al., 2005b:90175** *and* **Katagiri, Hideki et al., 2005e:90170**
Khalifa, H. A. *see* **Hassian, M. L. et al., 2005f:90176**
Kovács, Margit (*with* Nándori, E.) Pessimistic and optimistic interval solutions of perturbed linear systems. (English summary) **2005f:90177**
Kung, Jung-Yuan *see* **Chuang, Tzung-Nan**
Kurano, Masami (*with* Yasuda, Masami; Nakagami, Jun-ichi; Yoshida, Yuji) A fuzzy stopping problem with the concept of perception: the finite and infinite horizon cases. (English summary)
Kwong, Sam *see* **Wang, Hanli et al.**
Lee, E. Stanley *see* **Syau, Yu-Ru et al., 2005f:90178**
León, Teresa (*with* Vercher, Enriqueta) Solving a class of fuzzy linear programs by using semi-infinite programming techniques. (English summary) **2005e:90171**
Levin, Vitaliĭ Il'ich Comparison of interval numbers, and the optimization of systems with interval parameters. (Russian. Russian summary) **2005d:90150**
Li, Lushu (*with* Kabadi, S. N.; Nair, K. P. K.) Fuzzy disk for covering fuzzy points. (English summary)
Li, Yinzhen[2] (*with* Guo, Yao Huang) An algorithm for finding shortest path on fuzzy acyclic directed network. (Chinese. English and Chinese summaries)
Liang, Gin-Shuh (*with* Han, Tzeu-Chen) Fuzzy critical path for project network. (English summary)
Liou, Yeong-Cheng (*with* Wu, Soon-Yi; Yao, Jen Chih) Bilevel decision with generalized semi-infinite optimization for fuzzy mappings as lower level problems. (English summary) **2005j:90114**
Liu, Baoding *see* **Liu, Yian-Kui, 2005i:90107** *and* **Gao, Jinwu**
Liu, Yian-Kui (*with* Liu, Baoding) On minimum-risk problems in fuzzy random decision systems. (English summary) **2005i:90107**
— (*with* Liu, Baoding) Fuzzy random programming with equilibrium chance constraints. (English summary)
Lu, Mei[1] *see* **Gao, Jinwu, 2005k:90229**
Luhandjula, M. K. Optimisation under hybrid uncertainty. (English summary) **2005b:90173**
Maleki, H. R. *see* **Nehi, Hassan Mishmast et al., 2005d:90151**
Man, K. F. *see* **Wang, Hanli et al.**
Mashinchi, Mashallah *see* **Nehi, Hassan Mishmast et al., 2005d:90151**
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Nagarajan, Ramachandran *see* **Vasant, Pandian M. et al.**
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Nakagami, Jun-ichi *see* **Kurano, Masami et al.**
Nándori, E. *see* **Kovács, Margit, 2005f:90177**
Nehi, Hassan Mishmast (*with* Maleki, H. R.; Mashinchi, Mashallah) Solving fuzzy number linear programming problem by lexicographic ranking function. (English summary) **2005d:90151**
Nishizaki, Ichiro (*with* Sakawa, Masatoshi; Katagiri, Hideki; Uemura, Yoshio) Cost allocation based on the solution concept from fuzzy cooperative games for a production and transportation problem—a case study. (English summary)
— *see also* **Katagiri, Hideki et al., 2005e:90170**
Ohsato, Ario *see* **Phruksaphanrat, Busaba, 2005d:90152**
Osuna-Gómez, R. *see* **Chalco-Cano, Yurilev et al., 2005d:90148**
Pérez-Gladish, Blanca *see* **Arenas Parra, M. Mar et al., 2005g:90177**
Phruksaphanrat, Busaba (*with* Ohsato, Ario) Linear coordination method for fuzzy multi-objective linear programming problems with convex polyhedral membership functions. (English summary) **2005d:90152**
Pop, Bogdana (*with* Dumitrescu, Silviu) Fuzzy control rules in linear fractional programming problems. (English and Romanian summaries) **2005a:90204**
Ramík, Jaroslav (*with* Vlach, Milan) Aggregation of generalized quasiconcave functions in optimization. (English summary) **2005e:90172**
— Duality in fuzzy linear programming: some new concepts and results. (English summary) **2005j:90115**
Rao, Singiresu Sambasiva *see* **Xiong, Ying**
Rodríguez-Uría, M. Victoria *see* **Arenas Parra, M. Mar et al., 2005g:90177** *and* **Jiménez, Mariano et al.**
Rojas-Medar, Marko A. *see* **Chalco-Cano, Yurilev et al., 2005d:90148**
Saad, Omar M. Stability on multiobjective quadratic programming problems with fuzzy parameters. (English summary) **2005b:90174**
Saati Mohtadi, S. (*with* Memariani, Azizollah) Reducing weight flexibility in fuzzy DEA. (English summary)
Sakawa, Masatoshi (*with* Kato, Kosuke; Katagiri, Hideki) An interactive fuzzy satisficing method for multiobjective linear programming problems with random variable coefficients through a probability maximization model. (English summary) **2005b:90175**
— *see also* **Katagiri, Hideki et al., 2005b:90172; 2005e:90170; 2005i:90106** *and* **Nishizaki, Ichiro et al.**
Shih, Hsu-Shih Fuzzy approach to multilevel knapsack problems. (English summary) **2005k:90230**
Song, Shi Ji *see* **Zhang, Xiao Li et al.**
Su, Jie Multi-objective fuzzy coefficient programming. (Chinese. English and Chinese summaries)
Syau, Yu-Ru (*with* Lee, E. Stanley; Jia, Lixing) Convexity and upper semicontinuity of fuzzy sets. (English summary) **2005f:90178**
Tanino, Tetsuzo *see* **Inuiguchi, Masahiro, 2005c:90129**
Tsai, Deng Maw (*with* Wang, Earl Juei) Application of fuzzy multiple goal programming on the selection for power plants considering site and environmental constraints. (English summary)
Tsao, Chung-Tsen An extension to benefit/cost based fuzzy MCDM algorithm. (English summary)
Uemura, Yoshio *see* **Nishizaki, Ichiro et al.**
Vasant, Pandian M. (*with* Nagarajan, Ramachandran; Yaacob, Sazali) Application of modified S-curve membership function in decision making process using FLP approach. (English summary)
— Solving fuzzy linear programming problems with modified S-curve membership function. (English summary)
Vercher, Enriqueta *see* **León, Teresa, 2005e:90171**
Vijay, Vidyottama *see* **Bector, C. R. et al.**
Vlach, Milan *see* **Ramík, Jaroslav, 2005e:90172**
Wang, Earl Juei *see* **Tsai, Deng Maw**
Wang, Hanli (*with* Kwong, Sam; Jin, Yaochu; Wei, Wei[3]; Man, K. F.) Multi-objective hierarchical genetic algorithm for interpretable fuzzy rule-based knowledge extraction. (English summary)
Wang, Hsiao-Fan (*with* Wu, Kuang-Yao) Preference approach to fuzzy linear inequalities and optimizations. (English summary) **2005j:90116**
Wang, Ying-Ming (*with* Yang, Jian-Bo; Xu, Dong-Ling) A two-stage logarithmic goal programming method for generating weights from interval comparison matrices. (English summary)
Wei, Wei[3] *see* **Wang, Hanli et al.**
Wu, Hsien-Chung Evaluate fuzzy optimization problems based on biobjective programming problems. (English summary) **2005k:90231**
— Duality theory in fuzzy optimization problems. (English summary) **2005h:90176**
— A solution concept for fuzzy multiobjective programming problems based on convex cones. (English summary) **2005c:90130**
— Fuzzy optimization problems based on the embedding theorem and possibility and necessity measures. (English summary) **2005e:90173**
— An (α, β)-optimal solution concept in fuzzy optimization problems. (English summary) **2005d:90153**
Wu, Kuang-Yao *see* **Wang, Hsiao-Fan, 2005j:90116**
Wu, Shu-Yu (*with* Cheng, Wei-Hou) A note on fuzzy convexity. (English summary)
Wu, Soon-Yi *see* **Liou, Yeong-Cheng et al., 2005j:90114**
Wu, Yan-Kuen (*with* Guu, Sy-Ming) A note on fuzzy relation programming problems with max-strict-t-norm composition. (English summary) **2005f:90179**
— (*with* Guu, Sy-Ming) Minimizing a linear function under a fuzzy max-min relational equation constraint. (English summary)
Xiong, Ying (*with* Rao, Singiresu Sambasiva) Fuzzy nonlinear programming for mixed-discrete design optimization through hybrid genetic algorithm. (English summary)
Xu, Dong-Ling *see* **Wang, Ying-Ming et al.**
Yaacob, Sazali *see* **Vasant, Pandian M. et al.**
Yang, Jian-Bo *see* **Wang, Ying-Ming et al.**
Yang, Wan Cai *see* **Zhang, Cheng[2]**
Yao, Jen Chih *see* **Liou, Yeong-Cheng et al., 2005j:90114**

Yasuda, Masami *see* **Kurano, Masami et al.**
Yoshida, Yuji *see* **Kurano, Masami et al.**
Zeng, Xue Lan *see* **Gong, Yan De**
Zhang, Cheng[2] (*with* Yang, Wan Cai) Duality theory of fuzzy programming. (Chinese. English and Chinese summaries)
Zhang, Xiao Li (*with* Fan, Yu Shun; Song, Shi Ji) Analytical restriction degree of reverse triple I method for fuzzy reasoning with Lukasiewicz's implication operator. (Chinese. English and Chinese summaries)
Zhou, Wei (*with* Jin, Yi Hui) Fuzzy subgradient algorithm for solving Lagrangian relaxation dual problem. (Chinese. English and Chinese summaries)

Items with secondary classifications in 90C70

Abo-Sinna, Mahmoud A. *see* **Osman, M. S. et al., 2005b:90059**
Agarwal, Ravi P. (*with* Khan, M. Firdosh; O'Regan, Donal; Salahuddin Ayouby) On generalized multivalued nonlinear variational-like inclusions with fuzzy mappings. (English summary)
Amer, Azza H. *see* **Osman, M. S. et al., 2005b:90059**
Ammar, E. E. (*with* Khalifa, H. A.) Characterization of optimal solutions of uncertainty investment problem. (English summary)
— (*with* Youness, Ebrahim A.) Study on multiobjective transportation problem with fuzzy numbers. (English summary)
Anglani, Alfredo (*with* Grieco, Antonio; Guerriero, Emanuela; Musmanno, Roberto) Robust scheduling of parallel machines with sequence-dependent set-up costs. (English summary) **2005e:90032**
Bector, C. R. (*with* Chandra, Suresh; Vidyottama, V.) Matrix games with fuzzy goals and fuzzy linear programming duality. (English summary) **2005f:91005**
Beer, Michael *see* **Möller, Bernd, 2005m:74100**
Beliakov, Gleb Learning weights in the generalized OWA operators. (English summary) **2005j:90054**
Ben Abdelaziz, Foued (*with* Masri, H.) Stochastic programming with fuzzy linear partial information on probability distribution. (English summary)
Bhatia, Davinder *see* **Gupta, Pankaj[1] et al., 2005k:90172**
Brodskiĭ, M. I. Application of fuzzy dynamic programming to multicriterial decision-making methods. (Russian. English summary) **2005e:90048**
Buckley, James J. ★ Fuzzy probabilities and fuzzy sets for web planning. **2005a:60008**
Burgin, Mark Fuzzy optimization of real functions. (English summary) **2005i:26055**
Chakraborty, Debjani *see* **Dutta, Pankaj et al., 2005m:90005**
Chandra, Suresh *see* **Bector, C. R. et al., 2005f:91005**
Chang, Hung-Chi An application of fuzzy sets theory to the EOQ model with imperfect quality items. (English summary)
Chang, Tzu-Ming *see* **Chu, Ta-Chung et al.**
Chen, Chung-Ho Robust design based on fuzzy optimization. (English summary) **2005e:93059**
Chen, Hung-Nan *see* **Cochran, Jeffrey K.**
Chen, Ling-Show (*with* Cheng, Ching-Hsue) Selecting IS personnel use fuzzy GDSS based on metric distance method. (English summary)
Chen, Qing[4] (*with* Li, Shao Yuan[2]; Xi, Yu Geng) Optimization of production process under if-then rules and its application to a reheating furnace. (Chinese. English and Chinese summaries)
Chen, Shih-Pin A mathematical programming approach to fuzzy queues with batch arrivals. (English summary)
Cheng, Ching-Hsue *see* **Chen, Ling-Show**
Cheng, Chun-Tian *see* **Li, Deng Feng[1], 2005c:90081**
Chiang, C. I. *see* **Hwang, M. J. et al.**
Chiang, Jershan The optimal solution of the transportation problem with fuzzy demand and fuzzy product. (English summary)
Chiou, Hua-Kai (*with* Tzeng, Gwo-Hshiung) An extended approach of multicriteria optimization for MODM problems. (English summary) (*see* **2005b:90008**)
Chu, Peter *see* **Liang, Shing-Ko et al.**
Chu, Ta-Chung (*with* Huang, Kuo-Shi; Chang, Tzu-Ming) COA defuzzification method for evaluating C_{pk} under fuzzy environments. (English summary)
Chuang, Tzung-Nan *see* **Kung, Jung-Yuan, 2005i:90088**
Cochran, Jeffrey K. (*with* Chen, Hung-Nan) Fuzzy multi-criteria selection of object-oriented simulation software for production system analysis. (English summary)
Collins, Emmanuel G., Jr. *see* **Selekwa, Majura F., 2005i:65081**
Das, Kalyanbrata (*with* Roy, Tapan Kumar[1]; Maiti, Manoranjan) Buyer-seller fuzzy inventory model for a deteriorating item with discount. (English summary) **2005e:90002**
Deshmukh, S. G. *see* **Jain, Vipul et al.**
Dey, Jayanta Kumar (*with* Kar, Samarjit; Maiti, Manoranjan) An interactive method for inventory control with fuzzy lead-time and dynamic demand. (English summary)
D'Hooghe, Bart (*with* Pykacz, Jarosław; Zapatrin, Román R.) Quantum computation of fuzzy numbers. (English summary) **2005m:81061**
Ding, Ti Ming Completely generalized variational inclusions for fuzzy mappings. (Chinese. English and Chinese summaries)
Dutta, Pankaj (*with* Chakraborty, Debjani; Roy, Akhil Ranjan) A single-period inventory model with fuzzy random variable demand. (English summary) **2005m:90005**
Emam, O. E. *see* **Osman, M. S. et al., 2005b:90059**
Emamizadeh, B. Decreasing rearrangement and a fuzzy variational problem. (English summary) **2005j:49038**
Fan, Zhiping (*with* Jiang, Yanping) A chi-square method for ranking alternatives based on the fuzzy judgement matrix. (English summary) **2005b:91066**
Fang, Yong (*with* Lai, Kin Keung; Wang, Shou Yang) A fuzzy approach to portfolio rebalancing with transaction costs. (English summary) **2005d:91048**
Feng, Shao Jun *see* **Li, Xi Can et al.**
Fu, Yong *see* **Jin, Hong[2] et al.**
Greco, Salvatore (*with* Inuiguchi, Masahiro; Słowiński, Roman) Possibility and necessity measures in dominance-based rough set approach. (English summary) (*see* **2005b:90008**)
Grieco, Antonio *see* **Anglani, Alfredo et al., 2005e:90032**
Guerriero, Emanuela *see* **Anglani, Alfredo et al., 2005e:90032**
Gupta, Pankaj[1] (*with* Vlach, Milan; Bhatia, Davinder) Fuzzy approximation to an infeasible generalized linear complementarity problem. (English summary) **2005k:90172**
Harikrishnan, Kanthen K. (*with* Ishii, Hiroaki[1]) Single machine batch scheduling problem with resource dependent setup and processing time in the presence of fuzzy due date. (English summary)
Herrera, L. J. (*with* Pomares, H.; Rojas, I.; Valenzuela, O.; Prieto Espinosa, Alberto) TaSe, a Taylor series-based fuzzy system model that combines interpretability and accuracy. (English summary)
Huang, Guo H. Gordon *see* **Maqsood, Imran et al.**
Huang, Kuo-Shi *see* **Chu, Ta-Chung et al.**
Hwang, M. J. (*with* Chiang, C. I.; Liu, Yi-Hsin) Solving a fuzzy set-covering problem. (English summary)
Inuiguchi, Masahiro *see* **Greco, Salvatore et al., (2005b:90008)**
Ishii, Hiroaki[1] *see* **Itoh, Takeshi[1]** *and* **Harikrishnan, Kanthen K.**
Iskander, Maged George A fuzzy weighted additive approach for stochastic fuzzy goal programming. (English summary)
Ismail, Mohd Vaseem (*with* Razzaq, Abdul) Chebyshev solution to a multivariate stratified sampling problem. (English summary)
Itoh, Takeshi[1] (*with* Ishii, Hiroaki[1]) One machine scheduling problem with fuzzy random due-dates. (English summary)
Jahanshahloo, Gholamreza (*with* Soleimani-damaneh, M.; Nasrabadi, Ebrahim) Measure of efficiency in DEA with fuzzy input-output levels: a methodology for assessing, ranking and imposing of weights restrictions. (English summary) **2005d:90077**
Jain, Vipul (*with* Wadhwa, S.; Deshmukh, S. G.) e-commerce and supply chains: modelling of dynamics through fuzzy enhanced high level Petri net. (English summary)
Jiang, Yanping *see* **Fan, Zhiping, 2005b:91066**
Jin, Hong[2] (*with* Wang, Hong An; Wang, Qiang; Fu, Yong; Wang, Hui) Fuzzy dynamic pre-emptive scheduling algorithms. (Chinese. English and Chinese summaries)
Joshi, Pradeep K. (*with* Sharma, Pramod C.; Upadhyay, Samar; Sharma, Sourabh) Multi objective fuzzy decision making approach for selection of type of caisson for bridge foundation. (English summary) **2005k:90135**
Kar, Samarjit *see* **Dey, Jayanta Kumar et al.**
Katagiri, Hideki (*with* Sakawa, Masatoshi; Ohsaki, Shuuji) An interactive satisficing method through the variance minimization model for fuzzy random multiobjective linear programming problems. (English summary) (*see* **2005b:90008**)
Khalifa, H. A. *see* **Ammar, E. E.**
Khan, M. Firdosh *see* **Agarwal, Ravi P. et al.**
Kon, Masamichi On fuzzy multicriteria location problems. (English summary)
Kouikoglou, Vassilis S. *see* **Zhang, Runtong et al., 2005f:60005**
Kung, Jung-Yuan (*with* Chuang, Tzung-Nan) The shortest path problem with discrete fuzzy arc lengths. (English summary) **2005i:90088**
Lai, Kin Keung *see* **Fang, Yong et al., 2005d:91048**
Lai, Tsung-Chyan (*with* Sot·skov, Yu. N.; Sotskova, Nadezhda; Werner, Frank) Mean flow time minimization with given bounds of processing times. (English summary) **2005g:90058**
Li, Deng Feng[1] (*with* Cheng, Chun-Tian) Stability on multiobjective dynamic programming problems with fuzzy parameters in the objective functions and in the constraints. (English summary) **2005c:90081**
— An approach to fuzzy multiattribute decision making under uncertainty. (English summary) **2005h:91060**
Li, Hui *see* **Li, Xue Quan**
Li, Shao Yuan[2] (*with* Zou, Tao; Yang, Yi-Peng) Finding the fuzzy satisfying solutions to constrained optimal control systems and application to robot path planning. (English summary)
— *see also* **Chen, Qing[4] et al.**
Li, Xi Can (*with* Feng, Shao Jun; Yang, Qing Hai; Yu, Su Zhen) Cross interacted algorithm of multiobjective and multidimensional fuzzy making decision. (Chinese. English and Chinese summaries)
Li, Xue Quan (*with* Li, Hui) Fuzzy multiple objective programming with weighted coefficients. (Chinese. English and Chinese summaries)
Liang, Shing-Ko (*with* Yang, Kuo-Lung; Chu, Peter) Analysis of fuzzy multiobjective programming to CPM in project management. (English summary)
Liu, Baoding ★ Uncertainty theory. **2005i:68078**
— *see also* **Peng, Jin**
Liu, Yi-Hsin *see* **Hwang, M. J. et al.**
Lu, Da Gang (*with* Wang, Li; Zhang, Peng; Wang, Guang Yuan) On similar approach degree algorithm for fuzzy multiple attribute decision-making. (Chinese. English and Chinese summaries)
Mahapatra, Nirmal Kumar (*with* Maiti, Manoranjan) Decision process for multiobjective, multi-item production-inventory system via interactive fuzzy satisficing technique. (English summary)
Maiti, Manoranjan *see* **Das, Kalyanbrata et al., 2005e:90002**; **Mandal, Nirmal Kumar et al.**; **Mahapatra, Nirmal Kumar** *and* **Dey, Jayanta Kumar et al.**
Mandal, Nirmal Kumar (*with* Roy, Tapan Kumar[1]; Maiti, Manoranjan) Multi-objective fuzzy inventory model with three constraints: a geometric programming approach. (English summary)
Maqsood, Imran (*with* Huang, Guo H. Gordon; Yeomans, Julian Scott) An interval-parameter fuzzy two-stage stochastic program for water resources management under uncertainty. (English summary)
Markovskiĭ, A. V. On the solution of fuzzy equations of "max-product" type in inverse control and decision-making problems. (Russian. Russian summary) **2005e:03118**
Masri, H. *see* **Ben Abdelaziz, Foued**
Mendonça, L. F. (*with* Sousa, J. M.; Sá da Costa, J. M. G.) Optimization problems in multivariable fuzzy predictive control. (English summary) **2005b:93093**
Mikhailov, Ludmil A fuzzy approach to deriving priorities from interval pairwise comparison judgements. (English summary) **2005c:90038**
Modarres, Mohammad (*with* Nasrabadi, Ebrahim; Nasrabadi, Mohammad Mehdi[2]) Fuzzy linear regression models with least square errors. (English summary) **2005i:62104**
Möller, Bernd (*with* Beer, Michael) ★ Fuzzy randomness. **2005m:74100**
Musmanno, Roberto *see* **Anglani, Alfredo et al., 2005e:90032**

Nasibov, È. N. An algorithm for constructing an admissible solution to the problem of packing into containers with fuzzy constraints. (Russian. Russian summary) **2005f:05036**

Nasrabadi, Ebrahim *see* **Jahanshahloo, Gholamreza et al., 2005d:90077; Modarres, Mohammad et al., 2005i:62104** *and* **Nasrabadi, Mohammad Mehdi[2]**

Nasrabadi, Mohammad Mehdi[2] (*with* Nasrabadi, Ebrahim) A mathematical-programming approach to fuzzy linear regression analysis. (English summary)

— *see also* **Modarres, Mohammad et al., 2005i:62104**

Ohsaki, Shuuji *see* **Katagiri, Hideki et al., (2005b:90008)**

O'Regan, Donal *see* **Agarwal, Ravi P. et al.**

Osman, M. S. (*with* Abo-Sinna, Mahmoud A.; Amer, Azza H.; Emam, O. E.) A multi-level non-linear multi-objective decision-making under fuzziness. (English summary) **2005b:90059**

Peeva, Ketty Resolution of min-max fuzzy relational equations. (English summary) **2005d:03097**

Peldschus, Friedel (*with* Zavadskas, Edmundas Kazimieras) Fuzzy matrix games multi-criteria model for decision-making in engineering. (English and Lithuanian summaries)

Peng, Jin (*with* Liu, Baoding) Parallel machine scheduling models with fuzzy processing times. (English summary)

Phillis, Yannis A. *see* **Zhang, Runtong et al., 2005f:60005**

Pomares, H. *see* **Herrera, L. J. et al.**

Prieto Espinosa, Alberto *see* **Herrera, L. J. et al.**

Pykacz, Jarosław *see* **D'Hooghe, Bart et al., 2005m:81061**

Razzaq, Abdul *see* **Ismail, Mohd Vaseem**

Rojas, I. *see* **Herrera, L. J. et al.**

Roy, Akhil Ranjan *see* **Dutta, Pankaj et al., 2005m:90005**

Roy, Tapan Kumar[1] *see* **Das, Kalyanbrata et al., 2005e:90002** *and* **Mandal, Nirmal Kumar et al.**

Sá da Costa, J. M. G. *see* **Mendonça, L. F. et al., 2005b:93093**

Saito, Seiji *L*-optimization problems concerning oil well equations. (English summary) **2005e:47151**

Sakawa, Masatoshi *see* **Katagiri, Hideki et al., (2005b:90008)**

Salahuddin Ayouby *see* **Agarwal, Ravi P. et al.**

Selekwa, Majura F. (*with* Collins, Emmanuel G., Jr.) Numerical solutions for systems of 'qualitative' nonlinear algebraic equations by fuzzy logic. (English summary) **2005i:65081**

Sharma, Pramod C. *see* **Joshi, Pradeep K. et al., 2005k:90135**

Sharma, Sourabh *see* **Joshi, Pradeep K. et al., 2005k:90135**

Sleptsov, A. I. (*with* Tyshchuk, T. A.) A method for computing the characteristics of operations in a problem of fuzzy network planning and management. (Russian. English and Ukrainian summaries)

Słowiński, Roman *see* **Greco, Salvatore et al., (2005b:90008)**

Smarandache, Florentin *see* **Vasantha Kandasamy, W. B.**

Soleimani-damaneh, M. *see* **Jahanshahloo, Gholamreza et al., 2005d:90077**

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Syau, Yu-Ru *see* **Wang, Liya, 2005d:90060**

Toyoura, Yoshihiro *see* **Yabuuchi, Yoshiyuki et al.**

Tsao, Chung-Tsen An interval arithmetic based fuzzy MCDM approach for technology transfer strategy selection in biotechnology. (English summary)

Tyshchuk, T. A. *see* **Sleptsov, A. I.**

Tzeng, Gwo-Hshiung Multiple objective decision making in past, present, and future. (English summary) (*see* **2005b:90008**)

— *see also* **Chiou, Hua-Kai, (2005b:90008)**

Upadhyay, Samar *see* **Joshi, Pradeep K. et al., 2005k:90135**

Valenzuela, O. *see* **Herrera, L. J. et al.**

Vasantha Kandasamy, W. B. (*with* Smarandache, Florentin) ★ Fuzzy relational maps and neutrosophic relational maps.

Vidyottama, V. *see* **Bector, C. R. et al., 2005f:91005**

Vlach, Milan *see* **Gupta, Pankaj[1] et al., 2005k:90172**

Wadhwa, S. *see* **Jain, Vipul et al.**

Wang, Earl Juei Application of linear programming model with fuzzy multiple goals for generation development under environmental regulations. (English summary)

Wang, Guang Yuan *see* **Lu, Da Gang et al.**

Wang, Hong An *see* **Jin, Hong[2] et al.**

Wang, Hui *see* **Jin, Hong[2] et al.**

Wang, Li *see* **Lu, Da Gang et al.**

Wang, Liya (*with* Syau, Yu-Ru) Fuzzy φ-convexity and fuzzy decision making. (English summary) **2005d:90060**

Wang, Qiang *see* **Jin, Hong[2] et al.**

Wang, Shou Yang (*with* Zhu, Shu-Shang) Fuzzy portfolio optimization. (English summary) **2005b:91136**

— *see also* **Fang, Yong et al., 2005d:91048**

Wang, Xu Zhu A note on congruence conditions of fuzzy choice functions. (English summary) **2005d:91032**

Wang, Ying-Ming On fuzzy multiattribute decision-making models and methods with incomplete preference information. (English summary)

Watada, Junzo *see* **Yabuuchi, Yoshiyuki et al.**

Werner, Frank *see* **Lai, Tsung-Chyan et al., 2005g:90058**

Xi, Yu Geng *see* **Chen, Qing[4] et al.**

Xu, Ze Shui On method for uncertain multiple attribute decision making problems with uncertain multiplicative preference information on alternatives. (English summary)

Yabuuchi, Yoshiyuki (*with* Watada, Junzo; Toyoura, Yoshihiro) Fuzzy AR model of stock price. (English summary)

Yang, Kuo-Lung *see* **Liang, Shing-Ko et al.**

Yang, Qing Hai *see* **Li, Xi Can et al.**

Yang, Yi-Peng *see* **Li, Shao Yuan[2] et al.**

Yeomans, Julian Scott *see* **Maqsood, Imran et al.**

Yoshida, Yuji A discrete-time European options model under uncertainty in financial engineering. (English summary) (*see* **2005b:90008**)

Youness, Ebrahim A. *see* **Ammar, E. E.**

Yu, Su Zhen *see* **Li, Xi Can et al.**

Zapatrin, Romàn R. *see* **D'Hooghe, Bart et al., 2005m:81061**

Zaras, Kazimierz Rough approximation of a preference relation by a multi-attribute dominance for deterministic, stochastic and fuzzy decision problems. (English summary) **2005a:90148**

Zavadskas, Edmundas Kazimieras *see* **Peldschus, Friedel**

Zhang, Peng *see* **Lu, Da Gang et al.**

Zhang, Runtong (*with* Phillis, Yannis A.; Kouikoglou, Vassilis S.) ★ Fuzzy control of queuing systems. **2005f:60005**

Zhang, Xin-chang Grey dispelling superfluous control for information transmission process with applications to classroom teaching. (English summary)

Zhu, Shu-Shang *see* **Wang, Shou Yang, 2005b:91136**

Zmeškal, Zdeněk Value at risk methodology under soft conditions approach (fuzzy-stochastic approach). (English summary) **2005e:91098**

Zou, Tao *see* **Li, Shao Yuan[2] et al.**

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Abramson, Mark A. Mixed variable optimization of a load-bearing thermal insulation system using a filter pattern search algorithm. (English summary)

Ahuja, Ravindra K. *see* **Romeijn, H. Edwin et al., 2005m:90175**

Alonso, Antonio A. *see* **Banga, Julio R. et al., (2005a:90005)**

Amundson, Neal R. (*with* Caboussat, Alexandre; He, Jiwen; Seinfeld, John H.; Yoo, Kee-Youn) An optimization problem related to the modeling of atmospheric inorganic aerosols. (English and French summaries) **2005k:90232**

Arguchintseva, M. A. Problems of the optimal design of the shapes of bodies from the standpoint of heat exchange. (Russian. Russian summary)

Asada, Takeshi *see* **Nakayama, Hirotaka J. et al.**

Babak, O. V. On an approach to the optimization of learning problems for pattern recognition based on the method of support vectors. (Russian. English and Ukrainian summaries)

Bagirov, A. M. (*with* Churilov, Leonid) An optimization-based approach to patient grouping for acute healthcare in Australia. (English summary) (*see* **2005g:00014**)

Banga, Julio R. (*with* Moles, Carmen G.; Alonso, Antonio A.) Global optimization of bioprocesses using stochastic and hybrid methods. (English summary) (*see* **2005a:90005**)

Bayón, L. (*with* Grau, J. M.; Ruiz, M. M.; Suárez Rodríguez, P.) New developments on equivalent thermal in hydrothermal optimization: an algorithm of approximation. (English summary)

Benoist, Thierry (*with* Rottembourg, Benoît) Upper bounds for revenue maximization in a satellite scheduling problem. (English summary) **2005h:90177**

Bisbos, C. D. (*with* Makrodimopoulos, A.; Pardalos, Panos M.) Second-order cone programming approaches to static shakedown analysis in steel plasticity. (English summary)

Boginski, Vladimir L. *see* **Pardalos, Panos M. et al.**

Booker, Andrew J. (*with* Meckesheimer, Martin; Torng, Tony) Reliability based design optimization using design explorer. (English summary)

Bouillard, Philippe *see* **Filomeno Coelho, R.**

Caboussat, Alexandre *see* **Amundson, Neal R. et al., 2005k:90232**

Carney, Paul R. *see* **Pardalos, Panos M. et al.**

Chaovalitwongse, Wanpracha *see* **Pardalos, Panos M. et al.**

Churilov, Leonid *see* **Bagirov, A. M., (2005g:00014)**

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Dennis, John E., Jr. *see* **Marsden, Alison L. et al.**

Farthing, Matthew W. *see* **Fowler, Kathleen R. et al.**

Filomeno Coelho, R. (*with* Bouillard, Philippe) A multicriteria evolutionary algorithm for mechanical design optimization with expert rules. (English summary)

Fowler, Kathleen R. (*with* Kelley, Carl T.; Miller, Cass T.; Kees, Christopher E.; Darwin, Robert W.; Reese, Jill P.; Farthing, Matthew W.; Reed, Mark S. C.) Solution of a well-field design problem with implicit filtering. (English summary)

Gola, Mariusz (*with* Kasprzak, Andrzej) The two-criteria topological design problem in WAN with delay constraint: an algorithm and computational results. (English summary) (*see* **2005g:65008**)

Goulart, E. *see* **Herskovits, J. et al.**

Grau, J. M. *see* **Bayón, L. et al.**

Guarino Lo Bianco, Corrado (*with* Piazzi, Aurelio) Using semi-infinite optimization for the steering of car-like vehicles. (English summary) (*see* **2005h:90008**)

Gumbert, Clyde R. (*with* Hou, Gene J. W.; Newman, Perry A.) High-fidelity computational optimization for 3-D flexible wings. I. Simultaneous aero-structural design optimization (SASDO). (English summary)

— (*with* Newman, Perry A.; Hou, Gene J. W.) High-fidelity computational optimization for 3-D flexible wings. II. Effect of random geometric uncertainty on design. (English summary)

Hajiyev, Chingiz *see* **Mamedov, H.**

Hamacher, Horst W. (*with* Schöbel, Anita) Design of zone tariff systems in public transportation. (English summary)

He, Jiwen *see* **Amundson, Neal R. et al., 2005k:90232**

Herskovits, J. (*with* Mappa, P.; Goulart, E.; Mota Soares, Cristóvão M.) Mathematical programming models and algorithms for engineering design optimization. (English summary)

Hou, Gene J. W. *see* **Gumbert, Clyde R. et al.**

Huang, Jian Guo (*with* Zhou, Jie-yong) A direct proof and a generalization for a Kantorovich type inequality. (English summary) **2005h:90178**

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Kelley, Carl T. *see* **Fowler, Kathleen R. et al.**

Kumar, Arvind[2] *see* **Romeijn, H. Edwin et al., 2005m:90175**
Li, Duan (*with* Sun, Xiao-ling; McKinnon, K. I. M.) An exact solution method for reliability optimization in complex systems. (English summary)
Liu, Zhou *see* **Zhu, Ziqiang et al.**
Makrodimopoulos, A. *see* **Bisbos, C. D. et al.**
Mamedov, H. (*with* Hajiyev, Chingiz) Optimization of the allowed drilling domain in the exploitation of marine floating platforms. (English summary)
Mappa, P. *see* **Herskovits, J. et al.**
Marsden, Alison L. (*with* Wang, Meng[1]; Dennis, John E., Jr.; Moin, Parviz) Optimal aeroacoustic shape design using the surrogate management framework. (English summary)
McKinnon, K. I. M. *see* **Li, Duan et al.**
Meckesheimer, Martin *see* **Booker, Andrew J. et al.**
Miller, Cass T. *see* **Fowler, Kathleen R. et al.**
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Mota Soares, Cristóvão M. *see* **Herskovits, J. et al.**
Nakayama, Hirotaka J. (*with* Yun, Ye Boon; Asada, Takeshi; Yoon, Min) MOP/GP models for machine learning. (English summary)
Newman, Perry A. *see* **Gumbert, Clyde R. et al.**
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Pardalos, Panos M. (*with* Boginski, Vladimir L.; Prokopyev, Oleg Alexan; Suharitdamrong, Wichai; Carney, Paul R.; Chaovalitwongse, Wanpracha; Vazacopoulos, Alkis) Optimization techniques in medicine. (English summary)
— *see also* **Bisbos, C. D. et al.**
Piazzi, Aurelio *see* **Guarino Lo Bianco, Corrado**, (**2005h:90008**)
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Reese, Jill P. *see* **Fowler, Kathleen R. et al.**
Romeijn, H. Edwin (*with* Ahuja, Ravindra K.; Dempsey, James F.; Kumar, Arvind[2]) A column generation approach to radiation therapy treatment planning using aperture. (English summary) **2005m:90175**
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Suharitdamrong, Wichai *see* **Pardalos, Panos M. et al.**
Sun, Xiao-ling *see* **Li, Duan et al.**
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Yu, R. X. *see* **Zhu, Ziqiang et al.**
Yun, Ye Boon *see* **Nakayama, Hirotaka J. et al.**
Zang, Zhuquan (*with* Nordholm, Sven) Design of ODMA digital waveforms using non-convex optimization methods. (English summary)
Zhang, Hong (*with* Ishikawa, Masumi) Efficient interpretation of large-scale real data by static inverse optimization. (English summary) (*see* **2005d:35008**)
Zhou, Jie-yong *see* **Huang, Jian Guo, 2005h:90178**
Zhou, Zhi Ang Weak efficient solutions of generalized convex set-valued vector optimization problems. (Chinese. English and Chinese summaries)
Zhu, Ziqiang (*with* Liu, Zhou; Wang, Xiaolu[2]; Yu, R. X.) Construction of integral objective function/fitness function of multi-objective/multi-disciplinary optimization. (English summary)

Items with secondary classifications in 90C90

Adams, B. L. *see* **Lyon, M., 2005f:74069**
Ahsan, M. J. *see* **Khan, E. A. et al.**
Ait-Haddou, R. (*with* Jinha, A.; Herzog, Walter; Binding, Paul A.) Analysis of the force-sharing problem using an optimization model. (English summary)
Alberto, P. V. (*with* Nogueira, Fernando; Rocha, Humberto; Vicente, Luís N.) Pattern search methods for user-provided points: application to molecular geometry problems. (English summary) **2005k:90146**
Aldis, Geoffrey K. (*with* Roberts, M. G.) An integral equation model for the control of a smallpox outbreak. (English summary)
Alekperov, R. K. *see* **Alguliev, R. M. et al.**
Alfares, Hesham K. Compressed workweek scheduling with differing weekdays and weekends labor demands. (English summary)
Alguliev, R. M. (*with* Alyguliev, R. M.; Alekperov, R. K.) An approach to optimal task assignment in a distributed system. (Russian. English, Russian and Ukrainian summaries)
Ali, M. Montaz *see* **Moloi, N. P., 2005h:90081**
Alvarez, Felipe (*with* Carrasco, Miguel Angel) Minimization of the expected compliance as an alternative approach to multiload truss optimization. (English summary) **2005m:74080**
Alyguliev, R. M. *see* **Alguliev, R. M. et al.**
Amirteimoori, Alireza (*with* Jahanshahloo, Gholamreza; Kordrostami, Sohrab) Prioritization method for frontier DMUs: a distance-based approach.
Anand, Christopher Kumar (*with* Terlaky, Tamás; Wang, Bixiang) Rapid, embeddable design method for spiral magnetic resonance image reconstruction resampling kernels. (English summary) **2005g:90171**
Ananiev, Sergey On equivalence between optimality criteria and projected gradient methods with application to topology optimization problem. (English summary) **2005j:74050**
Asano, Tetsuo (*with* Kirkpatrick, David; Yap, Chee K.) Pseudo approximation algorithms with applications to optimal motion planning. (English summary) **2005b:68255**
Audet, Charles Convergence results for generalized pattern search algorithms are tight. (English summary) **2005g:90175**
Bader, Brett W. *see* **Eskow, Elizabeth et al.**
Bagtzoglou, Amvrossios C. (*with* Baun, Sandrine A.) Near real-time atmospheric contamination source identification by an optimization-based inverse method. (English summary)
Bai, Feng Shan *see* **Liang, Heng et al., 2005d:65087**
Ball, Frank G. (*with* Britton, Tom; Lyne, Owen D.) Stochastic multitype epidemics in a community of households: estimation and form of optimal vaccination schemes. (English summary) **2005c:92034**
Barbosa, H. J. C. (*with* Lavor, Carlile; Raupp, Fernanda M. P.) Computational experiments with an adaptive genetic algorithm for global minimization of potential energy functions. (English summary) (*see* **2005a:90005**)
Barsegyan, A. R. *see* **Gevorkyan, Ashot S. et al.**, (**2005c:00015**)
Barton, Paul I. *see* **Lee, Cha Kun, 2005a:93106**
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Bauer, Daniela (*with* Grebe, R.; Ehrlacher, A.) A three-layer continuous model of porous media to describe the first phase of skin irritation. (English summary)
Baun, Sandrine A. *see* **Bagtzoglou, Amvrossios C.**
Beaman, J. J. *see* **King, C. W. et al.**
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Bhaskar, Atul *see* **Leary, Stephen J. et al., 2005h:90006**
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Borisov, V. M. (*with* Ivankov, A. A.; Kurilenko, Yu. V.; Mikhaĭlov, I. E.) ★ К разработке математических моделей и численных методов решения пространственных оптимизационных задач. (Russian) [On the development of mathematical models and numerical methods for solving three-dimensional optimization problems] **2005k:76114**
Borm, Peter (*with* Norde, Henk; García-Jurado, Ignacio; Patrone, Fioravante) Preface [Special issue on game practice].
Borzabadi, A. H. *see* **Farahi, M. H. et al.**
van de Braak, Georg (*with* Bünner, Martin J.; Schittkowski, Klaus) Optimal design of electronic components by mixed-integer nonlinear programming. (English summary)
Brazil, Marcus (*with* Thomas, Doreen A.; Weng, Jia F.; Rubinstein, J. Hyam; Lee, David H.) Cost optimisation for underground mining networks. (English summary)
Brito, Alejandro E. (*with* Villalobos, Cristina; Cabrera, Sergio D.) Interior-point methods in l_1 optimal sparse representation algorithms for harmonic retrieval. (English summary) **2005i:94003**
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Bünner, Martin J. *see* **van de Braak, Georg et al.**
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Caldwell, James (*with* Ng, Douglas K. S.) ★ Mathematical modelling. **2005a:93002**
Camera, Gabriele Distributional aspects of the divisibility of money: an example. (English summary)
Campbell, M. I. *see* **King, C. W. et al.**
Campbell, S. L. (*with* Horton, K. G.; Nikoukhah, Ramine) Auxiliary signal design for rapid multi-model identification using optimization. (English summary) **2005k:93228**
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Castañeda R., Cuauhtémoc H. *see* **Santiago-Alvarado, A. et al., 2005g:90080**
Cerone, Pietro *see* **Summit, Raymond**
Chandru, Vijaya (*with* Rao, M. Rammohan; Swaminathan, Ganesh) Protein folding on lattices: an integer programming approach. (English summary) (*see* **2005b:90009**)
Chao, Xiuli (*with* Lai, Kin Keung; Wang, Shou Yang; Yu, Mei[1]) Optimal consumption portfolio and no-arbitrage with nonproportional transaction costs. (English summary)
Chen, Jian[2] (*with* Yin, Jian-Hua; Lee, Chack Fan) The use of an SQP algorithm in slope stability analysis. (English summary)
Chen, Qing[4] (*with* Li, Shao Yuan[2]; Xi, Yu Geng) Optimization of production process under if-then rules and its application to a reheating furnace. (Chinese. English and Chinese summaries)
Chen, Shu-ping (*with* Li, Chong[1]; Li, Sheng Hong[1]; Wu, Xiong-wei) Portfolio optimization model with transaction costs. (English summary) **2005a:91057**
Cheng, Kuang-Peng *see* **Lee, Ju Hong, 2005h:94015**
Cheng, Xiuzhen (*with* Li, Yingshu; Du, Ding-Zhu; Ngo, Hung Q.) Steiner trees in industry. (*see* **2005h:90001**)
Choo, Hyunseung (*with* Mun, Youngsong) Improving the performance of multistage interconnection networks under nonuniform traffic pattern on shorter cycles. (English summary) (*see* **2005g:00014**)
Ciupală, Laura About universal maximal dynamic flows. (English summary)
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Collette, Yann (*with* Siarry, Patrick) ★ Multiobjective optimization. **2005b:90003**
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Crainic, Teodor Gabriel (*with* Malucelli, Federico; Nonato, Maddalena; Guertin, François) Meta-heuristics for a class of demand-responsive transit systems. (English summary)
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De Schutter, B. (*with* van den Boom, Ton J. J.) MPC for continuous piecewise-affine systems. (English summary) **2005a:93100**
Ding, Xiaohong (*with* Yamazaki, Koetsu) Adaptive growth technique of stiffener layout pattern for plate and shell structures to achieve minimum compliance. (English summary) **2005m:74082**
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Ehrlacher, A. *see* **Bauer, Daniela et al.**
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Epelman, Marina A. (*with* Pollock, Stephen; Netter, Brian; Low, Bobbi S.) Anisogamy, expenditure of reproductive effort, and the optimality of having two sexes. (English summary)
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Eskow, Elizabeth (*with* Bader, Brett W.; Byrd, Richard H.; Crivelli, Silvia; Head-Gordon, Teresa; Lamberti, Vincent; Schnabel, Robert B.) An optimization approach to the problem of protein structure prediction. (English summary)
Fabrikant, Alex (*with* Koutsoupias, Elias; Papadimitriou, Christos H.) Heuristically optimized trade-offs: a new paradigm for power laws in the internet. (English summary) (*see* **2005a:68008**)
Famularo, Domenico (*with* Pugliese, Paolo; Sergeev, Yaroslav D.) Global optimization technique for fixed-order control design. (English summary)
Farahi, M. H. (*with* Borzabadi, A. H.; Mehne, H. H.; Kamyad, Ali V.) Measure theoretical approach for optimal shape design of a nozzle. (English summary)
Feng, En Min (*with* Gong, Zhao Hua; Liu, Chong Yang; Zhang, Xu[4]) An improved genetic algorithm for artificial satellite module layout problems with performance constraints. (Chinese. English and Chinese summaries)
Feng, Haodi *see* **Deng, Xiao Tie et al., 2005j:90024**
Ferris, Michael C. (*with* Zhang, Yin[1]) Foreword: Special issue on mathematical programming in biology and medicine.
Filliger, Roger (*with* Hongler, M.-O.) Cooperative flow dynamics in production lines with buffer level dependent production rates. (English summary)
Fleten, Stein-Erik *see* **Wallace, Stein W., (2005f:90001)**
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Fuchs, Jean-Jacques On sparse representations in arbitrary redundant bases. (English summary) **2005e:94022**
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Gaeta, Matteo (*with* Giordano, Paola; Iovane, Gerardo) An optimization technique for image compression. (English summary)
Gao, Huijun (*with* Lam, James; Wang, Chang Hong[1]; Wang, Qing[6]) Hankel norm approximation of linear systems with time-varying delay: continuous and discrete cases. (English summary) **2005g:93027**
García-Jurado, Ignacio *see* **Borm, Peter et al.**
Gau, Chao-Yang (*with* Schrage, Linus E.) Implementation and testing of a branch-and-bound based method for deterministic global optimization: operations research applications. (English summary) **2005a:90198**
Genovese, K. (*with* Lamberti, Luciano; Pappalettere, C.) Improved global-local simulated annealing formulation for solving non-smooth engineering optimization problems. (English summary)
Gertner, Izidor *see* **Maslov, Igor V.**
Gevorkyan, Ashot S. (*with* Ghulyan, A. V.; Barsegyan, A. R.) Modeling of the potential energy surface of regrouping reaction in collinear three-atom collision system using nonlinear optimization. (English summary) (*see* **2005c:00015**)
Ghulyan, A. V. *see* **Gevorkyan, Ashot S. et al., (2005c:00015)**
Giordano, Paola *see* **Gaeta, Matteo et al.**
Gong, Qu Optimized linear-phase filterbanks with given degree of vanishing moments. (Chinese. English and Chinese summaries)
Gong, Zhao Hua *see* **Feng, En Min et al.**
Gray, Genetha Anne (*with* Kolda, Tamara G.; Sale, Ken; Young, Malin M.) Optimizing an empirical scoring function for transmembrane protein structure determination. (English summary)
Grebe, R. *see* **Bauer, Daniela et al.**
Gröwe-Kuska, Nicole (*with* Kiwiel, Krzysztof C.; Nowak, Matthias P.; Römisch, Werner; Wegner. Isabel) Power management in a hydro-thermal system under uncertainty by Lagrangian relaxation. (English summary) **2005c:90058**
Guertin, François *see* **Crainic, Teodor Gabriel et al.**
Haag, Jens E. (*with* Vande Wouwer, Alain; Bogaerts, Philippe) Dynamic modeling of complex biological systems: a link between metabolic and macroscopic description. (English summary) **2005j:92029**
Hałaj, Grzegorz Optimization of consumption with partial observation—Jensen inequality method. (English summary)
Halupka, Konrad *see* **Hutchinson, John M. C.** *and* **Errata: "Mate choice when males are in patches: optimal strategies and good rules of thumb"**
Han, Changwook *see* **Han, Soowhan et al.**
Han, Soowhan (*with* Pedrycz, Witold; Han, Changwook) Nonlinear channel blind equalization using hybrid genetic algorithm with simulated annealing. (English summary)
(Hartmann, Alexander K.) *see* **New optimization algorithms in physics, 2005d:90004**
Haven, Emmanuel *see* **Stradi, Benito, 2005k:91175**
Hay, A. M. (*with* Snyman, Jan A.) Optimization of a planar tendon-driven parallel manipulator for a maximal dextrous workspace. (English summary) **2005m:70013**
He, Lian Lian (*with* Shi, Feng[1]; Zhou, Huai Bei) Application of improved ant colony optimization algorithm to the 2D HP model. (Chinese. English and Chinese summaries)
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Helmke, U. *see* **Kleinsteuber, M. et al., 2005j:65039**
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Hongler, M.-O. *see* **Filliger, Roger**
Hooker, John N. (*with* Osorio Lama, María Auxilio) A logic approach to semicontinuous flow variable formulation in process synthesis problems. (English summary) (*see* **2005h:90008**)
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Hsu, Ming-Hsiu (*with* Hsu, Yeh-Liang) Generalization of two- and three-dimensional structural topology optimization. (English summary)
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Hu, G. S. (*with* Ong, C. J.; Teo, C. L.) Minimum-time control of a crane with simultaneous traverse and hoisting motions. (English summary) **2005a:49076**
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Hüper, K. *see* **Kleinsteuber, M. et al., 2005j:65039**
Hutchinson, John M. C. (*with* Halupka, Konrad) Mate choice when males are in patches: optimal strategies and good rules of thumb. (English summary)
— *see also* **Errata: "Mate choice when males are in patches: optimal strategies and good rules of thumb"**
Iacob, Paul (*with* Marinescu, Daniela; Luca, Cristina) Covering with rectangular pieces. (English summary) **2005k:90122**
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Ivankov, A. A. *see* **Borisov, V. M. et al., 2005k:76114**
Jahanshahloo, Gholamreza *see* **Amirteimoori, Alireza et al.**
Jiang, Chuanwen (*with* Bompard, Etorre) A novel chaotic mutation evolutionary programming for multi-objective optimization in power system. (English summary)
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Jiang, Lishang (*with* Dai, Min[2]) Convergence of binomial tree methods for European/American path-dependent options. (English summary) **2005j:91041**
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Kamyad, Ali V. *see* **Farahi, M. H. et al.**
Kang, Jin-Su (*with* Suh, Min-Ho; Lee, Tai-Yong) Robust economic optimization of process design under uncertainty. (English summary) **2005a:90141**
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Khan, E. A. (*with* Khan, M. G. M.; Ahsan, M. J.) On compromise allocation in multivariate stratified sampling. (English summary)
Khan, M. G. M. *see* **Khan, E. A. et al.**
Kharmanda, G. (*with* El-Hami, A.; Olhoff, N.) Global reliability-based design optimization. (English summary) (*see* **2005a:90005**)
Kimmel, Gad (*with* Sharan, Roded; Shamir, Ron) Computational problems in noisy SNP and haplotype analysis: block scores, block identification, and population stratification. (English summary) **2005g:92020**
King, C. W. (*with* Campbell, M. I.; Beaman, J. J.; Sreenivasan, S. V.) Synthesis of multistable equilibrium linkage systems using an optimization approach. (English summary)
Kirichenko, N. F. (*with* Krak, Yu. V.; Polishchuk, A. A.) Pseudo-inverse and projection matrices in problems of the design of functional transformers. (Russian. English and Ukrainian summaries)
Kirkpatrick, David *see* **Asano, Tetsuo et al., 2005b:68255**
Kiwiel, Krzysztof C. *see* **Gröwe-Kuska, Nicole et al., 2005c:90058**
Kleinsteuber, M. (*with* Helmke, U.; Hüper, K.) Jacobi's algorithm on compact Lie algebras. (English summary) **2005j:65039**
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Konno, Hiroshi Applications of global optimization to portfolio analysis. (English summary)
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Kordrostami, Sohrab *see* **Amirteimoori, Alireza et al.**
Koulamas, Christos P. (*with* Kyparisis, George J.) A correction to: "Single machine scheduling with release times, deadlines and tardiness objectives" [European J. Oper. Res. **133** (2001), no. 2, 447–453; MR1846798 (2002e:90037)].
Koutsoupias, Elias *see* **Fabrikant, Alex et al., (2005a:68008)**
Krak, Yu. V. *see* **Kirichenko, N. F. et al.**
Krishnamoorthy, A. *see* **Varghese, T. V., 2005g:60139**
Kuo, Way (*with* Rajendra Prasad, V.) System reliability optimization: an overview. (English summary) (*see* **2005a:62018**)
Kurilenko, Yu. V. *see* **Borisov, V. M. et al., 2005k:76114**
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Lai, Kin Keung (*with* Ng, Wan-Lung) A stochastic approach to hotel revenue optimization. (English summary)
— *see also* **Mak, K. L. et al., 2005k:90006** *and* **Chao, Xiuli et al.**

Lam, James *see* **Gao, Huijun et al., 2005g:93027** *and* **Zhang, Li Qian[2]**
Lam, Kokin *see* **Leung, Janny M. Y. et al.**
Lamberti, Luciano *see* **Genovese, K. et al.**
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Lavor, Carlile *see* **Barbosa, H. J. C. et al., (2005a:90005)**
Leary, Stephen J. (*with* Bhaskar, Atul; Keane, Andy J.) A derivative based surrogate model for approximating and optimizing the output of an expensive computer simulation. (English summary) **2005h:90006**
Lee, Cha Kun (*with* Barton, Paul I.) Global dynamic optimization of linear hybrid systems. (English summary) **2005a:93106**
Lee, Chack Fan *see* **Chen, Jian[2] et al.**
Lee, Daniel C. *see* **Spitler, Stephen L., 2005d:60148**
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Lee, Ju Hong (*with* Cheng, Kuang-Peng) Adaptive array beamforming with robust capabilities under random phase perturbations. (English summary) **2005h:94015**
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Leung, Janny M. Y. (*with* Zhang, Guoqing; Yang, Xiao Guang; Mak, Raymond; Lam, Kokin) Optimal cyclic multi-hoist scheduling: a mixed integer programming approach. (English summary)
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Li, Guo Jun[1] *see* **Deng, Xiao Tie et al., 2005j:90024**
Li, Han-Lin *see* **Tsai, Jung-Fa**
Li, Shao Yuan[2] *see* **Chen, Qing[4] et al.**
Li, Sheng Hong[1] *see* **Chen, Shu-ping et al., 2005a:91057**
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Li, Yingshu *see* **Cheng, Xiuzhen et al., (2005h:90001)**
Liang, Heng (*with* Liu, Xiao Yan[2]; Bai, Feng Shan) Optimization problem in multi-homogeneous homotopy method. (English summary) **2005d:65087**
Lin, Xuemin Delay optimization in quorum consensus. (English summary) **2005a:68024**
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Liu, Xiao Yan[2] *see* **Liang, Heng et al., 2005d:65087**
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Luo, Longfu (*with* Dai, Liming) A newly developed genetic algorithm for engineering design optimizations. (English summary)
Lyashko, S. I. (*with* Rublev, B. V.) Minimal ellipsoids and maximal simplexes in three-dimensional Euclidean space. (Russian. English and Ukrainian summaries) **2005h:52008**
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Lyon, M. (*with* Adams, B. L.) Gradient-based non-linear microstructure design. (English summary) **2005f:74069**
Mak, K. L. (*with* Lai, Kin Keung; Ng, Jonathan Wing-Cheong; Yiu, K. F. C.) Analysis of optimal opportunistic replenishment policies for inventory systems by using a (s, S) model with a maximum issue quantity restriction. (English summary) **2005k:90006**
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Maslov, Igor V. (*with* Gertner, Izidor) Reducing the computational cost of local search in the hybrid evolutionary algorithm with application to electronic imaging. (English summary)
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Mei, Shengwei *see* **Wang, Jinliang et al., 2005f:37181**
Messac, Achille *see* **Mattson, Christopher A.**
Miele, Angelo (*with* Wang, Tong[2]; Mancuso, S.) Optimal round-trip Earth-Mars trajectories for robotic flight and manned flight. (English summary) **2005b:70030**
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Özdamar, Linet (*with* Demirhan, M. B.; Onbaşoğlu, Esin) Pre-search screening: a technique to improve search efficiency in global optimization. (English summary) (*see* **2005a:90005**)
Pankov, A. R. (*with* Platonov, E. N.; Semenikhin, K. V.) Minimax optimization of an investment portfolio using a quantile criterion. (Russian. Russian summary) **2005d:91058**
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Santiago-Alvarado, A. (*with* Vázquez-Montiel, S.; Nivón-Santiago, R.; Castañeda R., Cuauhtémoc H.) Using linear programming to determine the geometric parameters of convex conical surfaces. (Spanish. English and Spanish summaries) **2005g:90080**
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Ševčovič, Daniel (*with* Csajková, A. Urbánová) On a two-phase minmax method for parameter estimation of the Cox, Ingersoll, and Ross interest rate model. (English summary)

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Staum, Jeremy Fundamental theorems of asset pricing for good deal bounds. (English summary) **2005b:91134**
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Tohka, Jussi Global deformable surface optimization using adaptive constraints and penalties. (English summary)
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Tözeren, Aydin (*with* Coward, Charles W.; Petushi, Sokol P.) Origins and evolution of cell phenotypes in breast tumors. (English summary)
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Tsai, Jung-Fa Global optimization of nonlinear fractional programming problems in engineering design. (English summary)
— (*with* Li, Han-Lin) Technical note—on optimization approach for multidisk vertical allocation problems. (English summary)
Tsodikov, Yu. M. (*with* Tsodikova, Ya. Yu.) Regularizing functions in a model of multiperiod optimization of production. (Russian. Russian summary)
Tsodikova, Ya. Yu. *see* **Tsodikov, Yu. M.**
Uryasev, Stanislav *see* **Testuri, Carlos E., (2005b:91009)**
Vande Wouwer, Alain *see* **Haag, Jens E. et al., 2005j:92029**
Varghese, T. V. (*with* Krishnamoorthy, A.) Inventory system subject to disaster with general interarrival times. (English summary) **2005g:60139**
Vázquez-Cendón, María Elena (*with* Dervieux, Alain; Koobus, B.) Multilevel optimization of a supersonic aircraft. (English summary) **2005c:76075**
Vázquez-Montiel, S. *see* **Santiago-Alvarado, A. et al., 2005g:90080**
Velichko, A. S. (*with* Nurminskiĭ, E. A.) A direct-dual decomposition of the problem of the replication of a portfolio of market assets. (Russian. Russian summary) **2005d:91061**
Venzi, Lorenzo *see* **Postolică, Vasile et al.**
Verter, Vedat *see* **Dasci, Abdullah**
Vicente, Luís N. *see* **Alberto, P. V. et al., 2005k:90146**
Villalobos, Cristina *see* **Brito, Alejandro E. et al., 2005i:94003**
Vovkodav, N. G. (*with* Shlepakov, L. N.) On the optimal efficiency factor of a semi-Markov system in a phase enlargement scheme. (Russian. English and Ukrainian summaries) **2005j:60160**
Wallace, Stein W. (*with* Fleten, Stein-Erik) Stochastic programming models in energy. (English summary) (*see* **2005f:90001**)
Wang, Bixiang *see* **Anand, Christopher Kumar et al., 2005g:90171**
Wang, Chang Hong[1] *see* **Gao, Huijun et al., 2005g:93027**
Wang, Guan Jun[1] (*with* Zhang, Yuan Lin) A shock model with two-type failures and optimal replacement policy. (English summary)
Wang, Ji-Bo Flow shop scheduling jobs with position-dependent processing times. (English summary) **2005k:90047**
Wang, Jinliang (*with* Teo, Kok Lay; Mei, Shengwei; Lu, Qiang[1]) Computation of steady-state security regions, stability regions and bifurcations of power systems. (English summary) **2005f:37181**
Wang, Michael Yu (*with* Zhou, Shiwei) Phase field: a variational method for structural topology optimization. (English summary) **2005h:74055**
Wang, Qing[6] *see* **Gao, Huijun et al., 2005g:93027**
Wang, Shou Yang *see* **Chao, Xiuli et al.**
Wang, Tong[2] *see* **Miele, Angelo et al., 2005b:70030**
Watada, Junzo *see* **Watanabe, Teruyuki et al., 2005k:91179**
Watanabe, Teruyuki (*with* Watada, Junzo; Sugita, Hisato) Fund allocation method based on a block of shares. (English summary) **2005k:91179**
Weber, William L. *see* **Fukuyama, Hirofumi, 2005g:91130**
Wegner, Isabel *see* **Gröwe-Kuska, Nicole et al., 2005c:90058**
Wein, Lawrence M. *see* **Wu, Joseph T. et al.**
Weng, Jia F. *see* **Brazil, Marcus et al.**
Wu, Joseph T. (*with* Wein, Lawrence M.; Perelson, Alan S.) Optimization of influenza vaccine selection. (English summary)
Wu, Wei Dong[2] *see* **Rao, Singiresu Sambasiva, 2005m:70027**
Wu, Xiong-wei *see* **Chen, Shu-ping et al., 2005a:91057**
Xi, Yu Geng *see* **Chen, Qing[4] et al.**
Xia, Jianming Mean-variance portfolio choice: quadratic partial hedging. (English summary) **2005m:91114**
Xu, B. (*with* Jiang, J. S.) Integrated optimization of structure and control for piezoelectric intelligent trusses with uncertain placement of actuators and sensors. (English summary)
Xu, Hui[2] (*with* Luo, Dehai) Application of nonlinear optimization method to sensitivity analysis of numerical model. (English summary) **2005b:90139**
Yamazaki, Koetsu *see* **Ding, Xiaohong, 2005m:74082**
Yang, Jie[3] *see* **Quan, Yong et al., (2005g:65008)**
Yang, Xiao Guang *see* **Leung, Janny M. Y. et al.**
Yap, Chee K. *see* **Asano, Tetsuo et al., 2005b:68255**
Yavin, Y. *see* **Frangos, C. et al., 2005f:91069**
Ye, Chengzhou *see* **Quan, Yong et al., (2005g:65008)**
Yeomans, Julian Scott *see* **Maqsood, Imran et al.**
Yin, Jian-Hua *see* **Chen, Jian[2] et al.**
Yiu, K. F. C. *see* **Mak, K. L. et al., 2005k:90006**
Young, Malin M. *see* **Gray, Genetha Anne et al.**
Yu, Hong-xia (*with* Zhang, Li Wei) The augmented Lagrangian method for the packing of unequal circles within a strip. (English summary)
Yu, Mei[1] *see* **Chao, Xiuli et al.**
Yu, Shiueh-Ling *see* **Sheu, Shey-Huei**
Zelle, Christian (*with* Burkard, Rainer E.) The reel and sheet cutting problem in paper industry. (English summary) **2005m:90057**
Zenios, Stavros A. *see* **Frangos, C. et al., 2005f:91069**
Zhang, Guoqing *see* **Leung, Janny M. Y. et al.**
Zhang, Li Qian[2] (*with* Lam, James) On H_2 model reduction of bilinear systems. (English summary)
Zhang, Li Wei *see* **Yu, Hong-xia**
Zhang, Xu[4] *see* **Feng, En Min et al.**
Zhang, Yin[1] *see* **Ferris, Michael C.**
Zhang, Yuan Lin *see* **Wang, Guan Jun[1]**
Zheng, R. T. (*with* Ngo, N. Q.; Shum, P.; Tjin, S. C.; Binh, Le Nguyen) A staged continuous tabu search algorithm for the global optimization and its applications to the design of fiber Bragg gratings. (English summary)
Zhou, Huai Bei *see* **He, Lian Lian et al.**
Zhou, Shiwei *see* **Wang, Michael Yu, 2005h:74055**
Zickfeld, Kirsten *see* **Slawig, Thomas, 2005b:86034**

Items listed otherwise than by author

Errata:
"Mate choice when males are in patches: optimal strategies and good rules of thumb" Erratum to: "Mate choice when males are in patches: optimal strategies and good rules of thumb" [J. Theoret. Biol. **231** (2004), no. 1, 129–151; MR2107554] by J. M. C. Hutchinson and K. Halupka.
Multi-objective programming and goal programming ★ Multi-objective programming and goal programming. **2005b:90008**
Nara ★ Multi-objective programming and goal programming. **2005b:90008**
New optimization algorithms in physics ★ New optimization algorithms in physics. **2005d:90004**

90C99 None of the above, but in this section

Items with secondary classifications in 90C99

Belinsky, Rachel (*with* González, Fernando; Stahl, Jeanne) Optimal behavior and concurrent variable interval schedules. (English summary) **2005b:92066**
González, Fernando *see* **Belinsky, Rachel et al., 2005b:92066**
Stahl, Jeanne *see* **Belinsky, Rachel et al., 2005b:92066**

91–XX Game theory, economics, social and behavioral sciences

91–01 Instructional exposition (textbooks, tutorial papers, etc.)

Brams, Steven J. ★ Game theory and politics. **2005f:91001**
Caputo, Michael R. ★ Foundations of dynamic economic analysis. **2005j:91001**
Chang, Fwu-Ranq ★ Stochastic optimization in continuous time. **2005b:91001**
Chern, I-Liang *see* **Zhu, You-Lan et al., 2005i:91002**
Coolen, A. C. C. ★ The mathematical theory of minority games. **2005k:91001**
Do, Norman Mathellaneous.
(Donets, V. M.) *see* **Kolbin, Vyacheslav Viktorovich, 2005e:91001**
Elliott, Robert J. (*with* Kopp, P. Ekkehard) ★ Mathematics of financial markets. **2005g:91001**
Franke, Jürgen (*with* Härdle, Wolfgang K.; Hafner, Christian M.) ★ Statistics of financial markets. **2005g:91002**
Hafner, Christian M. *see* **Franke, Jürgen et al., 2005g:91002**
Härdle, Wolfgang K. *see* **Franke, Jürgen et al., 2005g:91002**
Higham, Desmond J. ★ An introduction to financial option valuation. **2005b:91002**
Hudson, Richard L. *see* **Mandelbrot, Benoît B., 2005g:91004**
Hunt, P. J. (*with* Kennedy, Joanne) ★ Financial derivatives in theory and practice. **2005i:91001**
Kaneko, Mamoru ★ Game theory and mutual misunderstanding. **2005g:91003**
Kennedy, Joanne *see* **Hunt, P. J., 2005i:91001**
Kolbin, Vyacheslav Viktorovich ★ Decision making and programming. **2005e:91001**
Kopp, P. Ekkehard *see* **Elliott, Robert J., 2005g:91001**
Mandelbrot, Benoît B. (*with* Hudson, Richard L.) ★ The (mis)behavior of markets. (English summary) **2005g:91004**
Mendelson, Elliott ★ Introducing game theory and its applications. **2005b:91003**
Morgenstern, Oskar *see* **von Neumann, John**
von Neumann, John (*with* Morgenstern, Oskar) ★ Theory of games and economic behavior.
Roman, Steven ★ Introduction to the mathematics of finance. **2005b:91004**
Schlee, Walter ★ Einführung in die Spieltheorie. (German) [Introduction to game theory] **2005g:91005**
Seydel, Rüdiger Numerische Finanzmathematik. (German summary) [Numerical financial mathematics] **2005g:91006**
Shreve, Steven E. ★ Stochastic calculus for finance. II. **2005c:91001**
(Silberberg, Eugene) *see* **Caputo, Michael R., 2005j:91001**
(Vanbaelen, Ruth) *see* **Kaneko, Mamoru, 2005g:91003**
Wu, Xiao Nan *see* **Zhu, You-Lan et al., 2005i:91002**
Zhu, You-Lan (*with* Wu, Xiao Nan; Chern, I-Liang) ★ Derivative securities and difference methods. **2005i:91002**

Items with secondary classifications in 91–01

(Albers, Donald J.) *see* **Gardner, Martin**
Applebaum, David ★ Lévy processes and stochastic calculus. **2005h:60003**
Back, Kerry (*with* Bielecki, Tomasz R.; Hipp, Christian; Peng, Shi Ge; Schachermayer, Walter) ★ Stochastic methods in finance. **2005h:91003**
Bartholomew-Biggs, Michael ★ Nonlinear optimization with financial applications. **2005h:90002**
Bielecki, Tomasz R. *see* **Back, Kerry et al., 2005h:91003**
Denkowski, Zdzisław (*with* Migórski, Stanisław; Papageorgiou, Nikolaos S.) ★ An introduction to nonlinear analysis: theory. **2005a:47089**
(Frittelli, Marco) *see* **Back, Kerry et al., 2005h:91003**
Gardner, Martin ★ Martin Gardner's mathematical games.
Goeleven, Daniel An expository discussion on singular inequality problems and equilibrium models in economics. (English summary) **2005c:91083**
Gubko, M. V. Control of organizational systems with network interaction of agents. I. A survey of network game theory. (Russian. Russian summary) **2005i:91097a**
— Control of organizational systems with network interaction of agents. II. Incentive problems. (Russian. Russian summary) **2005i:91097b**
Hipp, Christian *see* **Back, Kerry et al., 2005h:91003**
Hodge, Jonathan K. (*with* Klima, Richard E.) ★ The mathematics of voting and elections: a hands-on approach. **2005k:91097**
Klima, Richard E. *see* **Hodge, Jonathan K., 2005k:91097**
Meiringer, Markus Betrachtungen zum Satz von Bernstein. [On Bernstein's theorem] **2005f:03070**
Migórski, Stanisław *see* **Denkowski, Zdzisław et al., 2005a:47089**
Nishimura, Kazuo (*with* Stachurski, John) Discrete time models in economic theory. (English summary) **2005b:91168**
Papageorgiou, Nikolaos S. *see* **Denkowski, Zdzisław et al., 2005a:47089**
Peng, Shi Ge *see* **Back, Kerry et al., 2005h:91003**
(Renz, Peter L.) *see* **Gardner, Martin**
(Runggaldier, Wolfgang J.) *see* **Back, Kerry et al., 2005h:91003**
Ruppert, David ★ Statistics and finance. **2005a:62006**
Schachermayer, Walter *see* **Back, Kerry et al., 2005h:91003**
Stachurski, John *see* **Nishimura, Kazuo, 2005b:91168**
Winkelmann, Rainer ★ Econometric analysis of count data.

Items listed otherwise than by author

Bressanone/Brixen *see* **Back, Kerry et al., 2005h:91003**
Lecture Notes in Mathematics *see* **Back, Kerry et al., 2005h:91003**
Stochastic methods in finance *see* **Back, Kerry et al., 2005h:91003**

91–02 Research exposition (monographs, survey articles)

Abramov, A. P. ★ Математические модели экономики дефицита. (Russian. Russian summary) [Mathematical models of deficit economics] **2005i:91003**
Anderson, Patrick L. ★ Business economics and finance with Matlab®, GIS, and simulation models. **2005c:91002**
Battinelli, Andrea *see* **Villanacci, Antonio et al., 2005a:91001**
Benevieri, Pierluigi *see* **Villanacci, Antonio et al., 2005a:91001**
Bhattacharya, Sukanto ★ Utility, rationality and beyond—from behavioral finance to informational finance. **2005m:91001**
Carosi, Laura *see* **Villanacci, Antonio et al., 2005a:91001**
Chen, Ping[5] (*with* Islam, Sardar M. N.) ★ Optimal control models in finance. **2005f:91002**
Dash, Jan W. ★ Quantitative finance and risk management. **2005h:91001**
Dompere, Kofi Kissi ★ Cost-benefit analysis and the theory of fuzzy decisions.
— ★ Cost-benefit analysis and the theory of fuzzy decisions.
Figuières, Charles (*with* Jean-Marie, Alain; Quérou, Nicolas; Tidball, Mabel) ★ Theory of conjectural variations. **2005e:91002**
Fragnelli, Vito (*with* Tadei, Roberto) Operations research games. (Italian. English and Italian summaries)
Guesnerie, Roger ★ Assessing rational expectations. 2. **2005m:91002**
(Gundlach, Matthias) *see* **CreditRisk$^+$ in the banking industry, 2005c:91007**
Hafner, Reinhold ★ Stochastic implied volatility. **2005c:91003**
Hautsch, Nikolaus ★ Modelling irregularly spaced financial data. **2005c:91004**
Islam, Sardar M. N. *see* **Chen, Ping[5], 2005f:91002**
Jean-Marie, Alain *see* **Figuières, Charles et al., 2005e:91002**
John, Reinhard Uses of generalized convexity and generalized monotonicity in economics. (English summary) (*see* **2005i:90003**)
Kellerhals, B. Philipp ★ Asset pricing. **2005c:91005**
Khrennikov, Andrei Yu. ★ Information dynamics in cognitive, psychological, social and anomalous phenomena. **2005b:91005**
Kraft, Holger ★ Optimal portfolios with stochastic interest rates and defaultable assets. **2005b:91006**
(Lehrbass, Frank) *see* **CreditRisk$^+$ in the banking industry, 2005c:91007**
Lingens, Jörg ★ Union wage bargaining and economic growth. **2005c:91006**
Mönch, Burkart ★ Strategic trading in illiquid markets. **2005m:91003**
Moţ, Ghiocel *see* **Petruşel, Adrian, 2005e:91004**
Musiela, Marek (*with* Rutkowski, Marek) ★ Martingale methods in financial modelling. **2005m:91004**
Nagata, Ryo ★ Theory of regular economies. **2005e:91003**
Petruşel, Adrian (*with* Moţ, Ghiocel) ★ Multivalued analysis and mathematical economics. **2005e:91004**
Prigent, Jean-Luc ★ Weak convergence of financial markets. **2005b:91007**
Quérou, Nicolas *see* **Figuières, Charles et al., 2005e:91002**
Reagle, Derrick P. *see* **Vinod, Hrishikesh D., 2005e:91005**
Rutkowski, Marek *see* **Musiela, Marek, 2005m:91004**
Schoenmakers, John G. M. ★ Robust Libor modelling and pricing of derivative products. **2005m:91005**
Tadei, Roberto *see* **Fragnelli, Vito**
Tapiero, Charles S. ★ Risk and financial management. **2005k:91002**
Tidball, Mabel *see* **Figuières, Charles et al., 2005e:91002**
Villanacci, Antonio (*with* Carosi, Laura; Benevieri, Pierluigi; Battinelli, Andrea) ★ Differential topology and general equilibrium with complete and incomplete markets. **2005a:91001**
Vinod, Hrishikesh D. (*with* Reagle, Derrick P.) ★ Preparing for the worst. **2005e:91005**
Weirich, Paul ★ Realistic decision theory. **2005h:91002**
Ziegler, Alexandre ★ Incomplete information and heterogeneous beliefs in continuous-time finance. **2005f:91003**
(Zimmermann, Heinz) *see* **Ziegler, Alexandre, 2005f:91003**

Items listed otherwise than by author

CreditRisk$^+$ in the banking industry ★ CreditRisk$^+$ in the banking industry. **2005c:91007**
Lecture Notes in Economics and Mathematical Systems *see* **Kraft, Holger, 2005b:91006; Hafner, Reinhold, 2005c:91003; Hautsch, Nikolaus, 2005c:91004; Lingens, Jörg, 2005c:91006** *and* **Mönch, Burkart, 2005m:91003**

Items with secondary classifications in 91–02

Brams, Steven J. ★ Game theory and politics. **2005f:91001**
Carvajal, Andrés (*with* Ray, Indrajit; Snyder, Susan K.) Equilibrium behavior in markets and games: testable restrictions and identification. (English summary) **2005a:91077**
Chern, I-Liang *see* **Zhu, You-Lan et al., 2005i:91002**
Elliott, Robert J. (*with* Kopp, P. Ekkehard) ★ Mathematics of financial markets. **2005g:91001**
(Everett, Anthony) *see* **Syverson, Paul, 2005j:03001**
Frees, Edward W. ★ Longitudinal and panel data.
Kendrick, David A. Stochastic control for economic models: past, present and the paths ahead. (English summary) **2005h:93176**
Kokot, Stefan ★ The econometrics of sequential trade models. **2005a:62010**
Kopp, P. Ekkehard *see* **Elliott, Robert J., 2005g:91001**
Krabs, Werner (*with* Pickl, Stefan Wolfgang) ★ Analysis, controllability and optimization of time-discrete systems and dynamical games. **2005b:93003**
Papadimitriou, Christos H. Algorithms, games, and the internet. (English summary) (*see* **2005j:68008**)
Pickl, Stefan Wolfgang *see* **Krabs, Werner, 2005b:93003**
Piotrowski, Edward W. (*with* Sładkowski, Jan) The next stage: quantum game theory. (English summary) **2005e:81045**
— (*with* Sładkowski, Jan) The next stage: quantum game theory. (English summary) (*see* **2005a:00002**)
Ray, Indrajit *see* **Carvajal, Andrés et al., 2005a:91077**
Ray, Subhash C. ★ Data envelopment analysis. **2005a:90003**
van Ryzin, Garrett J. *see* **Talluri, Kalyan T.**
Schachermayer, Walter ★ Portfolio optimization in incomplete financial markets. **2005m:91113**
Sładkowski, Jan *see* **Piotrowski, Edward W., 2005e:81045** *and* **(2005a:00002)**
Snyder, Susan K. *see* **Carvajal, Andrés et al., 2005a:91077**

Soner, H. Mete ★ Stochastic optimal control in finance. **2005m:93002**
Syverson, Paul ★ Logic, convention, and common knowledge. **2005j:03001**
Talluri, Kalyan T. (*with* van Ryzin, Garrett J.) ★ The theory and practice of revenue management.
Tamura, Akibisa Applications of discrete convex analysis to mathematical economics. (English summary) **2005d:91030**
Touzi, Nizar ★ Stochastic control problems, viscosity solutions and application to finance. **2005h:93001**
Wu, Xiao Nan *see* **Zhu, You-Lan et al., 2005i:91002**
Zhu, You-Lan (*with* Wu, Xiao Nan; Chern, I-Liang) ★ Derivative securities and difference methods. **2005i:91002**

Items listed otherwise than by author

Lecture Notes in Economics and Mathematical Systems *see* **Kokot, Stefan, 2005a:62010** *and* **Krabs, Werner, 2005b:93003**

91–03 Historical (must also be assigned at least one classification number from section 01)

Breitner, M. H. The genesis of differential games in light of Isaacs' contributions. (English summary)
Gambarelli, Gianfranco (*with* Owen, Guillermo) The coming of game theory. (English summary) **2005g:91007**
(Isaacs, Rufus Philip) *see* **Breitner, M. H.**
Morgan, Mary S. Simulation: the birth of a technology to create "evidence" in economics. (English and French summaries)
Owen, Guillermo *see* **Gambarelli, Gianfranco, 2005g:91007**

Items with secondary classifications in 91–03

Armatte, Michel (*with* Dahan-Dalmédico, Amy) Modèles et modélisations, 1950–2000: nouvelles pratiques, nouveaux enjeux. (English and French summaries) [Models and modelling, 1950–2000: new applications, new challenges]
Assad, Arjang A. *see* **Gass, Saul I., 2005g:90003**
Cossette, Hélène (*with* Marceau, Étienne) Obituary of Professor Etienne De Vylder (1937–2004).
Dahan-Dalmédico, Amy *see* **Armatte, Michel**
Delmas, Bernard Pierre-François Verhulst et la loi logistique de la population. (English and French summaries) [Pierre-François Verhulst and the logistic law of population]
(De Vylder, Floriaan) *see* **Cossette, Hélène**
Gass, Saul I. (*with* Assad, Arjang A.) ★ An annotated timeline of operations research: an informal history. **2005g:90003**
Levine, David K. (*with* Rolnick, Arthur J.; Shell, Karl) Comments on Bruce Smith's work. (English summary)
Marceau, Étienne *see* **Cossette, Hélène**
(Owen, Guillermo) *see* **A short biography of Guillermo Owen**
Richards, Donald St. P. *see* **Székely, Gábor J.**
Rolnick, Arthur J. *see* **Levine, David K. et al.**
Shell, Karl *see* **Levine, David K. et al.**
(Smith, Bruce D.) *see* **Levine, David K. et al.**
Székely, Gábor J. (*with* Richards, Donald St. P.) The St. Petersburg paradox and the crash of high-tech stocks in 2000. (English summary)
Trzaskalik, Tadeusz Mathematics in economics. (Polish. Polish summary) (*see* **2005b:01052**)
(Verhulst, Pierre-François) *see* **Delmas, Bernard**
White, Halbert ★ New perspectives in econometric theory.
Williams, Lambert Cardano and the gambler's habitus. (English summary) **2005k:01013**

Items listed otherwise than by author

A short biography of Guillermo Owen A short biography of Guillermo Owen.
Biography:
Owen, Guillermo A short biography of Guillermo Owen.
Obituary:
De Vylder, Floriaan *see* **Cossette, Hélène**

91–06 Proceedings, conferences, collections, etc.

Alkan, Ahmet (*with* Moulin, Hervé) Editorial [Proceedings of the NATO Advanced Research Workshop on Mathematical Theories of Allocation of Discrete Resources: Equilibria, Matchings, Mechanisms].
Back, Kerry (*with* Bielecki, Tomasz R.; Hipp, Christian; Peng, Shi Ge; Schachermayer, Walter) ★ Stochastic methods in finance. **2005h:91003**
Benhabib, Jess (*with* Carlstrom, Charles T.; Fuerst, Timothy S.) Introduction to monetary policy and capital accumulation. (English summary)
Bernhard, Pierre (*with* Deissenberg, Christophe) Introduction: a special issue dedicated to George Leitmann.
Bielecki, Tomasz R. (*with* Björk, Tomas; Jeanblanc-Picqué, Monique; Rutkowski, Marek; Scheinkman, José A.; Xiong, Wei[2]) ★ Paris-Princeton Lectures on Mathematical Finance 2003. **2005g:91008**
— *see also* **Back, Kerry et al., 2005h:91003**
Björk, Tomas *see* **Bielecki, Tomasz R. et al., 2005g:91008**
Borm, Peter (*with* Norde, Henk; García-Jurado, Ignacio; Patrone, Fioravante) Preface [Special issue on game practice].
Camera, Gabriele Recent developments on money and finance: an introduction.
Carlstrom, Charles T. *see* **Benhabib, Jess et al.**
(Carmona, René) *see* **Bielecki, Tomasz R. et al., 2005g:91008**
(Cass, David) *see* **Citanna, Alessandro et al.**
(Çinlar, E.) *see* **Bielecki, Tomasz R. et al., 2005g:91008**
Citanna, Alessandro (*with* Donaldson, John B.; Polemarchakis, Herakles M.; Siconolfi, Paolo; Spear, Stephen E.) General equilibrium, incomplete markets and sunspots: a symposium in honor of David Cass.
D'Ecclesia, Rita L. Financial modelling and risk management.
Degenne, Alain Les réseaux sociaux. [Social networks]
Deissenberg, Christophe *see* **Bernhard, Pierre**
Donaldson, John B. *see* **Citanna, Alessandro et al.**
(Ekeland, Ivar) *see* **Bielecki, Tomasz R. et al., 2005g:91008**
(Frittelli, Marco) *see* **Back, Kerry et al., 2005h:91003**
Fuerst, Timothy S. *see* **Benhabib, Jess et al.**
(Gallegati, Mauro) *see* **Complex dynamics of economic interaction, 2005m:91006**
García-Jurado, Ignacio *see* **Borm, Peter et al.**
(Glycopantis, Dionysius) *see* **Differential information economies, 2005i:91004**
Hens, Thorsten (*with* Schenk-Hoppé, Klaus Reiner) Evolutionary finance: introduction to the special issue. (English summary)
Hipp, Christian *see* **Back, Kerry et al., 2005h:91003**
Hołyst, Janusz A. (*with* Nowak, Maciej A.) Editorial [Applications of physics in financial analysis 4 (APFA4)].
Jeanblanc-Picqué, Monique *see* **Bielecki, Tomasz R. et al., 2005g:91008**
(Jouini, Elyès) *see* **Bielecki, Tomasz R. et al., 2005g:91008**
Karni, Edi (*with* Postlewaite, Andrew) Preface to the special issue in honor of David Schmeidler.
Kirman, Alan P. (*with* Tuinstra, Jan) Introduction [Special Issue: Bounded rationality, heterogeneity and market dynamics].
— *see also* **Complex dynamics of economic interaction, 2005m:91006**
Kopel, Michael (*with* Szidarovszky, Ferenc; Yousefi, Shahriar) Introduction [Special issue on dynamic oligopolies].
(Kusuoka, Shigeo) *see* **Advances in mathematical economics. Vol. 6, 2005b:91008**
(Leitmann, George) *see* **Bernhard, Pierre**
(Lux, Thomas) *see* **Nonlinear dynamics and heterogeneous interacting agents, 2005j:91003**
Marley, A. A. J. Random utility models and their applications: recent developments [Special issue on random utility theory and probabilistic measurement theory].
(Marsili, Matteo) *see* **Complex dynamics of economic interaction, 2005m:91006**
(Maruyama, Toru) *see* **Advances in mathematical economics. Vol. 6, 2005b:91008**
(Mazalov, Vladimir V.) *see* **Game theory and applications. Vol. X, 2005j:91002**
McCauley, Joseph L. ★ Dynamics of markets. **2005e:91006**
(McKelvey, Richard D.) *see* **Palfrey, Thomas R.**
Merlo, Antonio Introduction to economic models of crime. (English summary)
(Mertens, Jean-François) *see* **Special Issue: Stable equilibria**
Moulin, Hervé *see* **Alkan, Ahmet**
Nachbar, John H. (*with* Trockel, Walter; Yannelis, Nicholas C.) Editorial [The conferences at Bielefeld, St. Louis, and Urbana-Champaign].
Norde, Henk *see* **Borm, Peter et al.**
(Nowak, Andrzej S.) *see* **Advances in dynamic games, 2005g:91009**
Nowak, Maciej A. *see* **Hołyst, Janusz A.**
(Owen, Guillermo) *see* **Foreword [Special issue devoted to essays on cooperative games in honor of Guillermo Owen]**
Palfrey, Thomas R. Introduction: Special issue of Games and Economic Behavior in honor of Richard D. McKelvey.
Patrone, Fioravante *see* **Borm, Peter et al.**
Peng, Shi Ge *see* **Back, Kerry et al., 2005h:91003**
(Petrosyan, Leon A.) *see* **Game theory and applications. Vol. X, 2005j:91002**
Polemarchakis, Herakles M. *see* **Citanna, Alessandro et al.**
Postlewaite, Andrew *see* **Karni, Edi**
Quittard-Pinon, François (*with* Serant, Daniel) Preface [Special issue: Papers presented at the 7th IME Conference].
(Rachev, Svetlozar T.) *see* **Handbook: Computational and numerical methods in finance, 2005b:91009**
(Reitz, Stefan) *see* **Nonlinear dynamics and heterogeneous interacting agents, 2005j:91003**
(Runggaldier, Wolfgang J.) *see* **Back, Kerry et al., 2005h:91003**
Rutkowski, Marek *see* **Bielecki, Tomasz R. et al., 2005g:91008**
(Samanidou, Eleni) *see* **Nonlinear dynamics and heterogeneous interacting agents, 2005j:91003**
Schachermayer, Walter *see* **Back, Kerry et al., 2005h:91003**
Scheinkman, José A. *see* **Bielecki, Tomasz R. et al., 2005g:91008**
Schenk-Hoppé, Klaus Reiner *see* **Hens, Thorsten**
(Schmeidler, David) *see* **Karni, Edi**
Serant, Daniel *see* **Quittard-Pinon, François**
Siconolfi, Paolo *see* **Citanna, Alessandro et al.**
Spear, Stephen E. *see* **Citanna, Alessandro et al.**
(Szajowski, Krzysztof) *see* **Advances in dynamic games, 2005g:91009**
Szidarovszky, Ferenc *see* **Kopel, Michael et al.**
(Touzi, Nizar) *see* **Bielecki, Tomasz R. et al., 2005g:91008**
Trockel, Walter *see* **Nachbar, John H. et al.**
Tuinstra, Jan *see* **Kirman, Alan P.**
Velupillai, K. Vela Introduction and summary [Computability, constructivity and complexity in economic theory].
Vriend, Nicolaas J. Guest editorial [Computing in economics and finance].
Wright, Randall Introduction to "Models of monetary economies. II. The next generation".
Xiong, Wei[2] *see* **Bielecki, Tomasz R. et al., 2005g:91008**
Yannelis, Nicholas C. *see* **Differential information economies, 2005i:91004** *and* **Nachbar, John H. et al.**
(Yin, Gang George) *see* **Mathematics of finance, 2005b:91010**
Yousefi, Shahriar *see* **Kopel, Michael et al.**
(Zhang, Qing[1]) *see* **Mathematics of finance, 2005b:91010**

Items listed otherwise than by author

Adelaide ★ Advances in dynamic games. **2005g:91009**
Advances in dynamic games ★ Advances in dynamic games. **2005g:91009**
Advances in mathematical economics. Vol. 6 ★ Advances in mathematical economics. Vol. 6. **2005b:91008**
Biography:
Cass, David *see* **Citanna, Alessandro et al.**

Bressanone/Brixen *see* **Back, Kerry et al., 2005h:91003**
Complex dynamics of economic interaction ★ The complex dynamics of economic interaction. **2005m:91006**
Contemporary Mathematics ★ Mathematics of finance. **2005b:91010**
Differential information economies ★ Differential information economies. **2005i:91004**
Festschrift:
Owen, Guillermo Foreword [Special issue devoted to essays on cooperative games in honor of Guillermo Owen].
Foreword [Special issue devoted to essays on cooperative games in honor of Guillermo Owen] Foreword [Special issue devoted to essays on cooperative games in honor of Guillermo Owen].
Game theory and applications. Vol. X ★ Game theory and applications. Vol. X. **2005j:91002**
Handbook:
Computational and numerical methods in finance ★ Handbook of computational and numerical methods in finance. **2005b:91009**
Kiel ★ Nonlinear dynamics and heterogeneous interacting agents. **2005j:91003**
Lecture Notes in Economics and Mathematical Systems ★ The complex dynamics of economic interaction. **2005m:91006**
— ★ Nonlinear dynamics and heterogeneous interacting agents. **2005j:91003**
Lecture Notes in Mathematics *see* **Bielecki, Tomasz R. et al., 2005g:91008** *and* **Back, Kerry et al., 2005h:91003**
Mathematics of finance ★ Mathematics of finance. **2005b:91010**
Nonlinear dynamics and heterogeneous interacting agents ★ Nonlinear dynamics and heterogeneous interacting agents. **2005j:91003**
Obituary:
McKelvey, Richard D. *see* **Palfrey, Thomas R.**
Paris-Princeton Lectures on Mathematical Finance 2003 *see* **Bielecki, Tomasz R. et al., 2005g:91008**
Snowbird, UT ★ Mathematics of finance. **2005b:91010**
Special Issue:
Stable equilibria ★ Special issue on stable equilibria.
Stochastic methods in finance *see* **Back, Kerry et al., 2005h:91003**
Trieste ★ The complex dynamics of economic interaction. **2005m:91006**

Items with secondary classifications in 91–06

(Abramson, David) *see* **Computational science—ICCS 2003. Part II, 2005c:00015**
(Augier, Mie) *see* **Models of a man, 2005f:00007**
Bauwens, Luc (*with* Lubrano, Michel; van Dijk, Herman K.) Guest editorial: Recent advances in Bayesian econometrics.
(Bogdanov, A. V.) *see* **Computational science—ICCS 2003. Part II, 2005c:00015**
van Dijk, Herman K. *see* **Bauwens, Luc et al.**
(Dongarra, Jack J.) *see* **Computational science—ICCS 2003. Part II, 2005c:00015**
(Evtushenko, Yurii Gavrilovich) *see* **Moiseev, Nikita Nikolaevich**
Feichtinger, Gustav (*with* Kistner, Klaus-Peter; Schneeweiß, Christoph) OR, economics and statistics—a collection of papers published on the occasion of the 75th birthday of Franz Ferschl.
(Ferschl, Franz) *see* **Feichtinger, Gustav et al.**
(Flerov, Yu. A.) *see* **Moiseev, Nikita Nikolaevich**
(Gorbachev, Yu. E.) *see* **Computational science—ICCS 2003. Part II, 2005c:00015**
(Gundlach, Matthias) *see* **CreditRisk$^+$ in the banking industry, 2005c:91007**
Ham, John C. (*with* LaLonde, Robert J.) Editorial: Special issue on experimental and non-experimental evaluation of economic policy and models.
Kistner, Klaus-Peter *see* **Feichtinger, Gustav et al.**
LaLonde, Robert J. *see* **Ham, John C.**
(Lehrbass, Frank) *see* **CreditRisk$^+$ in the banking industry, 2005c:91007**
Lubrano, Michel *see* **Bauwens, Luc et al.**
(March, James G.) *see* **Models of a man, 2005f:00007**
Moiseev, Nikita Nikolaevich ★ Избранные труды. 1. (Russian) [Selected works. 1]
(Parkhomenko, V. P.) *see* **Moiseev, Nikita Nikolaevich**
(Pavlovskiĭ, Yu. N.) *see* **Moiseev, Nikita Nikolaevich**
(Petrov, Aleksandr Aleksandrovich) *see* **Moiseev, Nikita Nikolaevich**
Schneeweiß, Christoph *see* **Feichtinger, Gustav et al.**
(Simon, Herbert A.) *see* **Models of a man, 2005f:00007**
(Sloot, Peter M. A.) *see* **Computational science—ICCS 2003. Part II, 2005c:00015**
(Smirnov, A. I.) *see* **Mathematical models in economics and ecology**
(Tarko, A. M.) *see* **Moiseev, Nikita Nikolaevich**
(Ter-Krikorov, A. M.) *see* **Moiseev, Nikita Nikolaevich**
White, Halbert ★ New perspectives in econometric theory.
(Zomaya, Albert Y.) *see* **Computational science—ICCS 2003. Part II, 2005c:00015**

Items listed otherwise than by author

Bibliography:
Moiseev, Nikita Nikolaevich *see* **Moiseev, Nikita Nikolaevich**
Collected Works:
Moiseev, Nikita Nikolaevich *see* **Moiseev, Nikita Nikolaevich**
Computational science—ICCS 2003. Part II ★ Computational science—ICCS 2003. Part II. **2005c:00015**
CreditRisk$^+$ in the banking industry ★ CreditRisk$^+$ in the banking industry. **2005c:91007**
Khimki ★ Математические модели в экономике и экологии. (Russian) [Mathematical models in economics and ecology]
Lecture Notes in Computer Science ★ Computational science—ICCS 2003. Part II. **2005c:00015**
Mathematical models in economics and ecology ★ Математические модели в экономике и экологии. (Russian) [Mathematical models in economics and ecology]
Melbourne ★ Computational science—ICCS 2003. Part II. **2005c:00015**
Models of a man ★ Models of a man. **2005f:00007**
St. Petersburg ★ Computational science—ICCS 2003. Part II. **2005c:00015**
Studies in information science, No. 7 ★ Исследования по информатике. Вып. 7. (Russian) [Studies in information science. No. 7] **2005i:00009**

91–08 Computational methods

Items with secondary classifications in 91–08

Klinz, Bettina (*with* Woeginger, Gerhard J.) Faster algorithms for computing power indices in weighted voting games. (English summary) **2005h:91067**
Woeginger, Gerhard J. *see* **Klinz, Bettina, 2005h:91067**

91Axx Game theory

Items with secondary classifications in 91Axx

Borm, Peter (*with* Norde, Henk; García-Jurado, Ignacio; Patrone, Fioravante) Preface [Special issue on game practice].
García-Jurado, Ignacio *see* **Borm, Peter et al.**
Kaneko, Mamoru ★ Game theory and mutual misunderstanding. **2005g:91003**
Mendelson, Elliott ★ Introducing game theory and its applications. **2005b:91003**
Morgenstern, Oskar *see* **von Neumann, John**
von Neumann, John (*with* Morgenstern, Oskar) ★ Theory of games and economic behavior.
Norde, Henk *see* **Borm, Peter et al.**
Patrone, Fioravante *see* **Borm, Peter et al.**
(Vanbaelen, Ruth) *see* **Kaneko, Mamoru, 2005g:91003**

91A05 2-person games

Aigner, Martin (*with* De Marco, Gianluca; Montangero, Manuela) The plurality problem with three colors. (English summary) **2005e:91007**
Antipin, A. S. Solution of two-person nonzero-sum games by means of differential equations. (Russian. Russian summary) **2005k:91003**
— Controlled differential equations for solving two-person nonzero-sum games with coupled constraints. (English summary) (*see* **2005i:00016**)
Avenhaus, R. Applications of inspection games. (English and Lithuanian summaries) **2005f:91004**
Bector, C. R. (*with* Chandra, Suresh; Vidyottama, V.) Matrix games with fuzzy goals and fuzzy linear programming duality. (English summary) **2005f:91005**
— *see also* **Vidyottama, V. et al., 2005g:91014**
Bilombo, Raoul Presentation of the theory of games for two persons and whose result is nil: the von Neumann and Ky Fan theorems. (English summary)
Binmore, Ken Guillermo Owen's proof of the minimax theorem. (English summary) **2005g:91010**
Bridges, Douglas S. First steps in constructive game theory. (English summary) **2005f:91006**
Cairns, Grant Pillow chess. **2005b:91011**
Chandra, Suresh *see* **Bector, C. R. et al., 2005f:91005** *and* **Vidyottama, V. et al., 2005g:91014**
Chowdhury, Prabal Roy Bertrand-Edgeworth duopoly with linear costs: a tale of two paradoxes. (English summary) **2005m:91007**
De Marco, Gianluca *see* **Aigner, Martin et al., 2005e:91007**
Doebeli, Michael *see* **Ifti, Margarita et al.**
Eichberger, Jürgen (*with* Kelsey, David) Sequential two-player games with ambiguity. (English summary) **2005g:91011**
Ferguson, Thomas S. (*with* Genest, Christian) Toetjes na. (English summary) (*see* **2005m:62007**)
Genest, Christian *see* **Ferguson, Thomas S., (2005m:62007)**
Goddard, Wayne Mastermind revisited. (English summary) **2005g:91012**
Hahn, Sunku Allowing a pre-purchase product trial in duopoly. (English summary)
Higuchi, Masakazu^2 (*with* Tanaka, Tamaki) On minimax and maximin values in multicriteria games. (English summary) **2005c:91008**
Hill, Douglas E. Errors of judgment and reporting in a law merchant system. (English summary)
Hörner, Johannes A perpetual race to stay ahead. (English summary) **2005e:91008**
Huang, Tao Bertrand competition with incomplete share for lower price. (English summary) **2005b:91012**
Ifti, Margarita (*with* Killingback, Timothy; Doebeli, Michael) Effects of neighbourhood size and connectivity on the spatial continuous prisoner's dilemma. (English summary)
Jiang, Dian-yu Positive winning utility of a 2×2 annihilation matrix game. (English and Chinese summaries)
Kelsey, David *see* **Eichberger, Jürgen, 2005g:91011**
Kikuta, Kensaku A search game on a cyclic graph. (English summary) **2005f:91007**
Killingback, Timothy *see* **Ifti, Margarita et al.**
Kindler, Jürgen A simple proof of Sion's minimax theorem. **2005k:91004**
Kuriakose, A. Sunny *see* **Shobana Devi, C. K., 2005d:91002**
Lai, Hang-Chin On a dynamic fractional game. (English summary) **2005a:91002**
Lehrer, Ehud The game of normal numbers. (English summary) **2005a:91003**
Levchenkov, V. S. Stationary strategies in supergames. (Russian) **2005h:91004**
(Levi, Isaac) *see* **Schick, Frederic**
Li, Chu Lin *see* **Yang, Ming**
Mialon, Hugo M. (*with* Wiseman, Thomas) The impact of gun laws: a model of crime and self-defense. (English summary)
Montangero, Manuela *see* **Aigner, Martin et al., 2005e:91007**
Orlov, Andrey Vassilievich (*with* Strekalovskiĭ, A. S.) On the search for equilibrium situations in bimatrix games. (Russian. Russian summary) **2005d:91001**
Pieri, Graziano (*with* Torre, Anna) Hadamard and Tykhonov well-posedness in two player games. (English summary) **2005b:91013**
Porosiński, Zdzisław Modified strategies in a competitive best choice problem with random priority. (English summary) **2005h:91005**
Reny, Philip J. (*with* Robson, Arthur J.) Reinterpreting mixed strategy equilibria: a unification of the classical and Bayesian views. (English summary) **2005b:91014**
Robson, Arthur J. *see* **Reny, Philip J., 2005b:91014**
Ryan, Michael J. Intervening duality strategic equivalence and nonconstant sum bimatrix games. (English summary) **2005k:91005**

Sakaguchi, Minoru Equilibrium in two-player games of showcase showdown. (English summary) **2005g:91013**
Schick, Frederic A dilemma for whom?
Shashikhin, V. N. On the value of an antagonistic game with interval payoff functions. (Russian. English and Ukrainian summaries) **2005k:91006**
Shobana Devi, C. K. (*with* Kuriakose, A. Sunny) On rectangular fuzzy games. (English summary) **2005d:91002**
Sieben, Nándor Hexagonal polyomino weak (1, 2)-achievement games. (English summary)
Smol′yakov, È. R. Circular ordering of symmetric conflict equilibria. (Russian)
Sosina, Yu. V. *see* **Vasin, A. A., 2005h:91006**
Strekalovskiĭ, A. S. *see* **Orlov, Andrey Vassilievich, 2005d:91001**
Tanaka, Tamaki *see* **Higuchi, Masakazu[2], 2005c:91008**
Torre, Anna *see* **Pieri, Graziano, 2005b:91013**
Vasin, A. A. (*with* Sosina, Yu. V.) On the optimal distribution of information resources in an electoral campaign. (Russian. English and Russian summaries) **2005h:91006**
Vidyottama, V. (*with* Chandra, Suresh; Bector, C. R.) Bi-matrix games with fuzzy goals and fuzzy pay-offs. (English summary) **2005g:91014**
— *see also* **Bector, C. R. et al., 2005f:91005**
Wiseman, Thomas *see* **Mialon, Hugo M.**
Yang, Ming (*with* Li, Chu Lin) Investment option of R&D follower investor in a duopoly model. (Chinese. English and Chinese summaries)

Items with secondary classifications in 91A05

Adler, Isolde Marshals, monotone Marshals, and hypertree-width. (English summary) **2005i:05129**
Ahmed, Elsayed Mohamed (*with* Hegazi, A. S.; Elgazzar, A. S.) On persistence and stability of some biological systems with cross diffusion. (English summary)
de Alfaro, Luca (*with* Faella, Marco; Henzinger, Thomas A.; Majumdar, Rupak; Stoelinga, Mariëlle) The element of surprise in timed games. (English summary) **2005c:68195**
— (*with* Majumdar, Rupak) Quantitative solution of omega-regular games. (English summary) **2005e:03084**
Alur, Rajeev (*with* La Torre, Salvatore; Madhusudan, P.) Playing games with boxes and diamonds. (English summary) **2005c:68162**
Antipin, A. S. Multiplier methods in bilinear equilibrium programming with application to nonzero-sum games. (English summary) **2005d:90114**
Ariosa, D. (*with* Fort, H.) Extended estimator approach for 2×2 games and its mapping to the Ising Hamiltonian. (English summary) **2005m:91029**
Arslan, Gürdal *see* **Shamma, Jeff S., 2005g:91025**
Avetisyan, Ruben Avetisovich *see* **Khachatryan, R. A. et al., 2005k:49050**
Babinkostova, Liljana (*with* Scheepers, Marion) An infinite game on groups. (English summary) **2005g:03062**
Balluchi, Andrea (*with* Benvenuti, Luca; Villa, Tiziano; Wong-Toi, Howard; Sangiovanni-Vincentelli, Alberto L.) Controller synthesis for hybrid systems with a lower bound on event separation. (English summary) **2005a:93099**
Bassan, Bruno (*with* Scarsini, Marco; Zamir, Shmuel) Some interactive decision problems emerging in statistical games. (English summary) **2005a:62028**
Bector, C. R. (*with* Chandra, Suresh; Vijay, Vidyottama) Duality in linear programming with fuzzy parameters and matrix games with fuzzy pay-offs. (English summary)
Benvenuti, Luca *see* **Balluchi, Andrea et al., 2005a:93099**
Bischi, Gian-Italo (*with* Chiarella, Carl; Kopel, Michael) The long run outcomes and global dynamics of a duopoly game with misspecified demand functions. (English summary) **2005e:91040**
Björklund, Henrik (*with* Sandberg, Sven; Vorob′ev, S. G.) A combinatorial strongly subexponential strategy improvement algorithm for mean payoff games. (English summary) **2005m:91043**
Blouin, Max R. Equilibrium in a decentralized market with adverse selection. (English summary) **2005b:91090**
Boeva, Veselka D. A modal logic framework for dynamic conflict detection. (English summary)
Byrnes, Steven Poset game periodicity. (English summary) **2005c:91031**
Campbell, Garikai On optimal play in the game of Hex. (English summary) **2005c:91032**
Chandra, Suresh *see* **Bector, C. R. et al.**
Chen, Bo[1] (*with* Ma, Ying-Jun; Long, Gui Lu) Quantum game with restricted matrix strategies. (English summary) **2005e:81048**
Chiarella, Carl *see* **Bischi, Gian-Italo et al., 2005e:91040**
Cicalese, Ferdinando (*with* Deppe, Christian) Quasi-perfect minimally adaptive q-ary search with unreliable tests. (English summary) **2005d:68101**
de Clippel, Geoffroy (*with* Minelli, Enrico) Two-person bargaining with verifiable information. (English summary) **2005e:91060**
Codenotti, Bruno (*with* Štefankovič, Daniel) On the computational complexity of Nash equilibria for (0, 1) bimatrix games. (English summary) **2005k:68073**
Coppola, Emery, Jr. (*with* Szidarovszky, Ferenc) Conflict between water supply and environmental health risk: a computational neural network approach. (English summary)
Crasmaru, Marcel (*with* Glaßer, Christian; Regan, Kenneth W.; Sengupta, Samik) A protocol for serializing unique strategies. (English summary) **2005m:68076**
Dawid, A. Philip *see* **Grünwald, Peter D., 2005g:62019**
Décamps, Jean-Paul (*with* Mariotti, Thomas) Investment timing and learning externalities. (English summary) **2005e:91073**
Deissenberg, Christophe (*with* Gonzalez, Francisco Alvarez) Pareto-improving cheating in an economic policy game. (English summary) **2005c:91023**
Deng, Xiao Tie (*with* Li, Zhong Fei; Wang, Shou Yang) A minimax portfolio selection strategy with equilibrium. (English summary) **2005k:91150**
Deppe, Christian *see* **Cicalese, Ferdinando, 2005d:68101**
Elgazzar, A. S. *see* **Ahmed, Elsayed Mohamed et al.**
Eremin, I. I. (*with* Patsko, S. V.) Fejér processes for infinite systems of convex inequalities. (English summary) **2005a:90122**
Faella, Marco *see* **de Alfaro, Luca et al., 2005c:68195**
Fang, Xi Ming *see* **Zhao, Hai-Jun, 2005d:81113**
Fekete, Sándor P. (*with* Meijer, Henk) The one-round Voronoi game replayed. (English summary) **2005c:68266**
— (*with* Fleischer, Rudolf; Fraenkel, Aviezri S.; Schmitt, Matthias) Traveling salesmen in the presence of competition. (English summary) **2005a:90168**
— (*with* Meijer, Henk) The one-round Voronoi game replayed. (English summary) **2005g:68171**
Ferenstein, Elżbieta Z. On randomized stopping games. (English summary) **2005j:91010**
Fernández-Sáez, M. J. *see* **Zoroa Alonso, Noemíet al., 2005g:90066**
Ferrara, Massimiliano *see* **Stefanescu, Maria V., 2005c:49014**
Fleischer, Rudolf *see* **Fekete, Sándor P. et al., 2005a:90168**
Focardi, Riccardo (*with* Luccio, Flaminia L.) A modular approach to Sprouts. (English summary) **2005g:91056**
Fort, H. *see* **Ariosa, D., 2005m:91029**
Fraenkel, Aviezri S. New games related to old and new sequences. (English summary) **2005h:11048**
— *see also* **Fekete, Sándor P. et al., 2005a:90168**
Garcia, Alfredo Forecast horizons for a class of dynamic games. (English summary) **2005f:91035**
Ghosh, Mrinal Kanti[2] (*with* Shaiju, A. J.) Existence of value and saddle point in infinite-dimensional differential games. (English summary) **2005e:91031**
Glaßer, Christian *see* **Crasmaru, Marcel et al., 2005m:68076**
Glazer, Jacob (*with* Rubinstein, Ariel) On optimal rules of persuasion. (English summary) **2005e:91036**
Gonzalez, Francisco Alvarez *see* **Deissenberg, Christophe, 2005c:91023**
Goranko, Valentin The basic algebra of game equivalences. (English summary) **2005f:03037**
Gorelov, M. A. A parametric formulation of the problem of the design of rational procedures for the exchange of information in a two-person hierarchical game. (Russian. Russian summary) **2005g:91061**
Grädel, Erich Positional determinacy of infinite games. (English summary) **2005e:03087**
Grib, A. A. (*with* Khrennikov, Andrei Yu.; Starkov, K.) Probability amplitude in quantum like games. (English summary) **2005h:81018**
Grünwald, Peter D. (*with* Dawid, A. Philip) Game theory, maximum entropy, minimum discrepancy and robust Bayesian decision theory. (English summary) **2005g:62019**
Guo, Xianping (*with* Hernández-Lerma, Onésimo) Zero-sum games for nonhomogeneous Markov chains with an expected average payoff criterion. (English summary) **2005e:91024**
Gyurkovics, É. (*with* Takács, T.) Guaranteeing cost strategies for infinite horizon difference games with uncertain dynamics. (English summary) **2005m:91047**
Harremoës, Peter (*with* Vignat, Christophe) A Nash equilibrium related to the Poisson channel. (English summary) **2005k:91046**
Hegazi, A. S. *see* **Ahmed, Elsayed Mohamed et al.**
Henzinger, Thomas A. *see* **de Alfaro, Luca et al., 2005c:68195**
Hernández-Lerma, Onésimo *see* **Guo, Xianping, 2005e:91024**
Huck, Steffen (*with* Müller, Wieland) Burning money and (pseudo) first-mover advantages: an experimental study on forward induction. (English summary) **2005j:91006**
Hughes Hallett, Andrew (*with* Weymark, Diana N.) Independent monetary policies and social equity. (English summary)
Iqbal, Azhar (*with* Weigert, Stefan) Quantum correlation games. (English summary) **2005f:81029**
— Quantum correlations and Nash equilibria of a bi-matrix game. (English summary) **2005d:81108**
Khachatryan, A. R. *see* **Khachatryan, R. A. et al., 2005k:49050**
Khachatryan, R. A. (*with* Avetisyan, Ruben Avetisovich; Khachatryan, A. R.) Continuity of sets of ε-optimal strategies. (Russian. English and Russian summaries) **2005k:49050**
Khrennikov, Andrei Yu. *see* **Grib, A. A. et al., 2005h:81018**
Kim, Do Sang (*with* Noh, Kyung-A.) Symmetric duality in quadratic programming and matrix game equivalence. (English summary)
— (*with* Noh, Kyung-A.) Symmetric dual nonlinear programming and matrix game equivalence. (English summary) **2005e:90151**
Kleimenov, A. F. Problems of constructing dynamics for nonantagonistic positional differential games. (English summary) **2005g:91047**
Koether, Robb T. (*with* Osoinach, John K., Jr.) Outwitting the lying oracle. **2005m:91048**
Kopel, Michael *see* **Bischi, Gian-Italo et al., 2005e:91040**
Koshmanenko, Volodymyr A theorem on conflict for a pair of stochastic vectors. (Ukrainian. English and Ukrainian summaries) **2005g:91041**
Küenle, Heinz-Uwe Markov games under a geometric drift condition. (English summary) **2005i:91019**
Kumar, Santosh[1] (*with* Ncube, Ozias; Munapo, Elias) Tsoro and Hungarian approaches: a hybrid algorithm for an assignment problem. (English summary) **2005h:90061**
Lange, Martin A quick axiomatisation of LTL with past. (English summary) **2005h:03040**
Laraki, Rida (*with* Solan, Eilon; Vieille, Nicolas) Continuous-time games of timing. (English summary) **2005m:91026**
La Torre, Salvatore *see* **Alur, Rajeev et al., 2005c:68162**
Li, Zhong Fei *see* **Deng, Xiao Tie et al., 2005k:91150**
Lo, Kin Chung More likely than unlikely. (English summary) **2005m:91065**
Long, Gui Lu *see* **Chen, Bo[1] et al., 2005e:81048**
Lozovanu, Dmitrii D. Polynomial time algorithm for determining optimal strategies in cyclic games. (English summary) **2005m:91044**
Luccio, Flaminia L. *see* **Focardi, Riccardo, 2005g:91056**
Ma, Ying-Jun *see* **Chen, Bo[1] et al., 2005e:81048**
MacPhee, I. M. (*with* Rougier, Jonathan; Pollard, G. H.) Server advantage in tennis matches. (English summary) **2005i:91034**
Madhusudan, P. *see* **Alur, Rajeev et al., 2005c:68162**
Majumdar, Rupak *see* **de Alfaro, Luca et al., 2005c:68195** *and* **2005e:03084**
Mamedov, M. B. Investigation of unimprovable equilibrium situations in nonlinear conflict-controlled dynamical systems. (Russian. Russian summary) **2005a:91019**
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Martin, Kenneth W. Complex signal processing is not complex. (English summary) **2005e:94031**

Mazalov, Vladimir V. (*with* Zabelin, Anatoly A.) Equilibrium in an arbitration procedure. (English summary) **2005h:91086**
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Munapo, Elias *see* **Kumar, Santosh[1] et al., 2005h:90061**
Muscholl, Anca (*with* Schwentick, Thomas; Segoufin, Luc) Active context-free games. (English summary) **2005e:68130**
Nachbar, John H. Beliefs in repeated games. (English summary) **2005i:91022**
Nawaz, Ahmad (*with* Toor, A. H.) Dilemma and quantum battle of sexes. (English summary) **2005d:81110**
— (*with* Toor, A. H.) Generalized quantization scheme for two-person non-zero sum games. (English summary) **2005g:81075**
Ncube, Ozias *see* **Kumar, Santosh[1] et al., 2005h:90061**
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Patsko, S. V. *see* **Eremin, I. I., 2005a:90122**
Patsko, V. S. Switching surfaces in linear differential games with fixed termination time. (Russian. Russian summary) **2005k:91065**
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Petruşel, Adrian A topological property of the fixed point set. (English summary) **2005i:54053**
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Poranen, Timo (*with* Nummenmaa, Jyrki) A linear time special for MC games. (English summary) **2005c:68176**
Ramachandran, K. M. (*with* Rao, A. N. V.) N-person stochastic differential games with wideband noise perturbations: pathwise average cost per unit time problem. (English summary) **2005c:91025**
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Rosenberg, Dinah (*with* Solan, Eilon; Vieille, Nicolas) Stochastic games with a single controller and incomplete information. (English summary) **2005k:91050**
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Samet, Dov (*with* Samet, Iddo; Schmeidler, David) One observation behind two-envelope puzzles. **2005e:00005**
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Secchi, Piercesare (*with* Sudderth, William D.) A simple two-person stochastic game with money. (English summary) **2005m:91028**
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Shaiju, A. J. *see* **Ghosh, Mrinal Kanti[2], 2005e:91031**
Shamma, Jeff S. (*with* Arslan, Gürdal) Unified convergence proofs of continuous-time fictitious play. (English summary) **2005g:91025**
Shen, Bang Yu (*with* Zhou, Xing He) Relaxed gam chromatic number of binary trees. (Chinese. English and Chinese summaries)
Shmaya, Eran (*with* Solan, Eilon) Two-player nonzero-sum stopping games in discrete time. (English summary) **2005g:60067**
Solan, Eilon *see* **Shmaya, Eran, 2005g:60067**; **Rosenberg, Dinah et al., 2005k:91050** *and* **Laraki, Rida et al., 2005m:91026**
Sorin, Sylvain New approaches and recent advances in two-person zero-sum repeated games. **2005h:91035**
Starkov, K. *see* **Grib, A. A. et al., 2005h:81018**
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— On a class of recursive games. **2005k:91052**
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Vrahatis, M. N. *see* **Pavlidis, N. G. et al., 2005g:91024**
Vriend, Nicolaas J. 'From exchange it comes to tears'. A Dutch 'folk theorem' reconsidered. (English summary)
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Wang, Yu-ter Countervailing duties, foreign export subsidies and import tariffs. (English summary) **2005a:91086**
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Wong-Toi, Howard *see* **Balluchi, Andrea et al., 2005a:93099**
Yeung, David W. K. *see* **Yu, Wei**
Yu, Wei (*with* Yeung, David W. K.) Stochastic pursuit problems with different geometric shapes of reachable sets. (English and Chinese summaries)
Zabelin, Anatoly A. *see* **Mazalov, Vladimir V., 2005h:91086**
Zamir, Shmuel *see* **Bassan, Bruno et al., 2005a:62028**
Zaslavski, Alexander J. Generic existence of a saddle point. (English summary) **2005b:49012**
Zhao, Hai-Jun (*with* Fang, Xi Ming) Influence of constraint in parameter space on quantum games. (English summary) **2005d:81113**
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Zoli, Enrico On the equivalence between CH and the existence of certain $\mathcal{I}$-Luzin subsets of $\mathbb{R}$. (English summary) **2005e:03108**
Zoroa Alonso, Noemí (*with* Fernández-Sáez, M. J.; Zoroa Terol, Procopio) Search and ambush games with capacities. (English summary) **2005g:90066**
Zoroa Terol, Procopio *see* **Zoroa Alonso, Noemíet al., 2005g:90066**

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Apt, Krzysztof R. Uniform proofs of order independence for various strategy elimination procedures. (English summary) **2005h:91007**
Ballester, Coralio NP-completeness in hedonic games. (English summary) **2005g:91015**
Boros, Endre (*with* Gurvich, Vladimir; Jaslar, Steven; Krasner, Daniel) Stable matchings in three-sided systems with cyclic preferences. (English summary) **2005g:91016**
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Gómez González, Daniel (*with* González-Arangüena, Enrique; Manuel, Conrado; Owen, Guillermo; Del Pozo, Monica; Tejada Cazorla, Juan) Splitting graphs when calculating Myerson value for pure overhead games. (English summary) **2005g:91017**
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Szidarovszky, Ferenc *see* **Szilágyi, Miklós N. et al.**
Szilágyi, Miklós N. (*with* Zhao, Jijun; Szidarovszky, Ferenc) A new algorithm for the solution of N-person prisoners' dilemmas with Pavlovian agents. (English summary)
Tejada Cazorla, Juan *see* **Gómez González, Daniel et al., 2005g:91017**

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Zhukovskiĭ, V. I. (*with* Molostvov, V. S.; Sachkov, S. N.; Smirnova, L. V.) Imputations in cooperative games under uncertainty. **2005d:91003**

Items with secondary classifications in 91A06

Abbott, Derek *see* **Flitney, Adrian P., 2005j:81048**
Abramyants, T. G. (*with* Maslov, E. P.) A differential game of pursuit of a group target. (Russian. Russian summary) **2005h:91042**
Algaba, E. (*with* Bilbao, J. M.; van den Brink, René; Jiménez-Losada, A.) An axiomatization of the Banzhaf value for cooperative games on antimatroids. (English summary) **2005a:91005**
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Bukhtoyarov, S. E. (*with* Emelichev, Vladimir A.; Stepanishina, Yu. V.) Problems in the stability of vector discrete problems with a parametric optimality principle. (Russian. English and Ukrainian summaries) **2005e:90105**
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Srinivasan, P. S. (*with* Veeramani, P.) On best proximity pair theorems and fixed-point theorems [MR1954244 (2004a:47069)]. (*see* **2005d:00015**)
— (*with* Veeramani, P.) On existence of equilibrium pair for constrained generalized games. **2005a:91084**
Stepanishina, Yu. V. *see* **Bukhtoyarov, S. E. et al., 2005e:90105**
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Berger, Ulrich Fictitious play in $2 \times n$ games. (English summary) **2005m:91008**
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Casajus, André Weak isomorphism of extensive games. (English summary) **2005i:91007**
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Chkhartishvili, A. G. Bayes-Nash equilibrium: infinite-depth point information structures. (Russian. Russian summary) **2005f:91012**
— *see also* **Novikov, D. A., 2005m:91011**
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Clempner, Julio (*with* Medel, Jesus; Cârsteanu, Alin) Extending games with local and robust Lyapunov equilibrium and stability condition. (English summary) **2005k:91013**
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De Sinopoli, Francesco (*with* Iannantuoni, Giovanna) On the generic strategic stability of Nash equilibria if voting is costly. (English summary) **2005h:91010**
Dimitri, Nicola Efficiency and equilibrium in the electronic mail game; the general case. (English summary) **2005b:91017**
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— *see also* **Fonseca, Miguel A. et al., 2005j:91004**
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— Essential components of the set of weakly Pareto-Nash equilibrium points for multiobjective generalized games in two different topological spaces. (English summary) **2005k:91017**
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— (*with* Mavronicolas, Marios; Monien, Burkhard; Rode, Manuel) A new model for selfish routing. (English summary) **2005e:91011**
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— (*with* Arslan, Gürdal) Dynamic fictitious play, dynamic gradient play, and distributed convergence to Nash equilibria. (English summary) **2005i:91012**
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— Basic equilibria in the theory of noncooperative games. (Russian. English and Ukrainian summaries) **2005k:91020**
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— *see also* **Morgan, Roy John, 2005f:91018**
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— *see also* **Lin, Zhi, 2005e:91010**
Zauner, Klaus G. *see* **Meagher, Kieron J., 2005b:91020**
Zhou, Jie (*with* Ma, Lei[1]; Li, Yun[4]) Multiplayer quantum games with continuous-variable strategies. (English summary) **2005k:91023**

Items with secondary classifications in 91A10

Alcalde, José (*with* Silva, José A.) A proposal for sharing costs. (English summary) **2005g:91026**
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— (*with* Xu, Hui Fu) Supply function equilibrium in electricity spot markets with contracts and price caps. (English summary) **2005k:91118**
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Aramendia, M. (*with* Ruiz, Luis M.; Valenciano Llovera, Federico) The forgiving trigger strategy: an alternative to the trigger strategy. (English summary) **2005a:91012**
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— (*with* Wilkie, Simon) Endogenous games and mechanisms: side payments among players. (English summary) **2005k:91007**
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Tarakanov, A. F. *see* **Maksimushkina, E. V., 2005i:91026**
Tchantcho, Bertrand *see* **Diffo Lambo, Lawrence et al., 2005d:91033**
Tijs, S. H. (*with* Meca-Martínez, Ana; López, Marco A.) Benefit sharing in holding situations. (English summary) **2005g:91129**
— *see also* **Bjørndal, Endre et al., 2005e:91037**; **Brânzei, Rodica et al., 2005h:91050** *and* **De Waegenaere, Anja et al., 2005m:91124**
Tsurumi, Masayo (*with* Tanino, Tetsuzo; Inuiguchi, Masahiro) Solution concepts for coalitional games in constructing networks. (English summary) **2005c:90013**
Tvede, Mich *see* **Koch, Andreas**
Uemura, Yoshio *see* **Nishizaki, Ichiro et al.**
Umezawa, Masashi *see* **Matsubayashi, Nobuo et al., 2005d:90021**
Ünver, M. Utku *see* **Sönmez, Tayfun, 2005m:91063**
Utsumi, Yukihisa (*with* Nakayama, Mikio) Strategic cores in a public goods economy. (English summary) **2005h:91074**
Valenciano Llovera, Federico *see* **Laruelle, Annick, 2005g:91070** *and* **2005k:91098**
Vannetelbosch, Vincent J. *see* **Herings, P. Jean-Jacques et al., 2005c:91028** *and* **Mauleon, Ana, 2005g:91150**
Varga, Zoltán *see* **Cressman, Ross et al., 2005g:91042**
Vasil′ev, Valeriĭ A. Contractual M-core and equilibrium allocations. (English and Russian summaries) **2005k:91192**
van Velzen, Bas Dominating set games. (English summary) **2005g:91058**
Vidal-Puga, Juan J. A bargaining approach to the Owen value and the Nash solution with coalition structure. (English summary) **2005k:91022**
Wagener, Andreas *see* **Pfingsten, Andreas, 2005g:91088**
Wako, Jun Coalition-proof Nash allocation in a barter game with multiple indivisible goods. (English summary) **2005j:91034**
Wang, Xuejun Tax evasion, tax competition and gains from nondiscrimination with equilibrium mixed strategies. (English summary) **2005a:91013**
Watson, Joel *see* **Bull, Jesse, 2005c:91079**
Weber, Shlomo *see* **Le Breton, Michel, 2005g:91022**
Wettstein, David *see* **Pérez Castrillo, J. David, 2005k:91079**
Woeginger, Gerhard J. *see* **Klinz, Bettina, 2005h:91067**
Wooldridge, Michael (*with* Dunne, Paul E.) On the computational complexity of qualitative coalitional games. (English summary) **2005c:68079**
Xue, Licun *see* **Diamantoudi, Effrosyni et al., 2005b:91176**
(Yannelis, Nicholas C.) *see* **Differential information economies, 2005i:91004**
Yeung, David W. K. Technical note: Nontransferable individual payoffs in cooperative stochastic differential games. (English summary) **2005f:91033**
— (*with* Petrosyan, Leon A.) Subgame consistent solutions of a cooperative stochastic differential game with nontransferable payoffs. (English summary) **2005m:91035**
Zakharov, Viktor (*with* Dement′eva, M. B.) Multistage cooperative games and problem of time consistency. (English summary) **2005b:91038**
— *see also* **Dement′eva, M. B. et al., 2005m:91040**
Zenkevich, Nikolay A. Integrative imputations based on an auction game. **2005i:91057**
Zhang, Jing[11] (*with* Chai, Jun) Analytic hierarchy process in multiobjective investment of multi-person cooperation. (Chinese. English and Chinese summaries)
Zhang, Jun[6] *see* **Jones, Matt, 2005g:91052**
Zhao, Dun *see* **Zhu, Jiang[2] et al., 2005i:90064**
Zhu, Jiang[2] (*with* Isac, George; Zhao, Dun) Pareto optimization in topological vector spaces. **2005i:90064**
Zhukovskaya, L. V. An approach to risk formalization in decision making in automatic control systems. (Russian. Russian summary) **2005k:90143**
Zhukovskiĭ, V. I. (*with* Molostvov, V. S.; Sachkov, S. N.; Smirnova, L. V.) Imputations in cooperative games under uncertainty. **2005d:91003**
Zuiki, Nozomu *see* **Iwata, Satoru, 2005f:91036**

Items listed otherwise than by author

Differential information economies ★ Differential information economies. **2005i:91004**
Festschrift:
Owen, Guillermo Foreword [Special issue devoted to essays on cooperative games in honor of Guillermo Owen].
Foreword [Special issue devoted to essays on cooperative games in honor of Guillermo Owen] Foreword [Special issue devoted to essays on cooperative games in honor of Guillermo Owen].
Game theory and applications. Vol. X ★ Game theory and applications. Vol. X. **2005j:91002**
Lecture Notes in Economics and Mathematical Systems *see* **Lingens, Jörg, 2005c:91006**

91A13 Games with infinitely many players

Wieczorek, Andrzej Large games with only small players and strategy sets in Euclidean spaces. (English summary) **2005k:91040**

Items with secondary classifications in 91A13

Correa, José R. (*with* Schulz, Andreas S.; Stier Moses, Nicolás E.) Selfish routing in capacitated networks. (English summary) **2005g:90013**
Harris, Christopher J. (*with* Stinchcombe, Maxwell B.; Zame, William R.) Nearly compact and continuous normal form games: characterizations and equilibrium existence. (English summary) **2005g:91139**
Karatzas, Ioannis (*with* Shubik, Martin; Sudderth, William D.) Information and the existence of stationary Markovian equilibrium. (English summary) **2005k:91048**
McLean, Richard P. (*with* Pazgal, Amit; Sharkey, William W.) Potential, consistency, and cost allocation prices. (English summary) **2005c:91076**
Nessah, Rabia Existence of solutions for nonlinear inequalities in locally convex separated space. (English summary) **2005e:49017**
Pazgal, Amit *see* **McLean, Richard P. et al., 2005c:91076**
Schulz, Andreas S. *see* **Correa, José R. et al., 2005g:90013**
Sharkey, William W. *see* **McLean, Richard P. et al., 2005c:91076**
Shevchenko, Andrei (*with* Wright, Randall) A simple search model of money with heterogeneous agents and partial acceptability. (English summary)
Shubik, Martin *see* **Karatzas, Ioannis et al., 2005k:91048**
Stier Moses, Nicolás E. *see* **Correa, José R. et al., 2005g:90013**
Stinchcombe, Maxwell B. *see* **Harris, Christopher J. et al., 2005g:91139**
Sudderth, William D. *see* **Karatzas, Ioannis et al., 2005k:91048**
Wieczorek, Andrzej Large games with only small players and finite strategy sets. (English summary) **2005f:91011**
Wiszniewska-Matyszkiel, Agnieszka A dynamic game with continuum of players and its counterpart with finitely many players. (English summary) (*see* **2005g:91009**)
Wright, Randall *see* **Shevchenko, Andrei**
Zame, William R. *see* **Harris, Christopher J. et al., 2005g:91139**

91A15 Stochastic games

Balbus, Łukasz (*with* Nowak, Andrzej S.) Construction of Nash equilibria in symmetric stochastic games of capital accumulation. (English summary) **2005k:91041**
Bayraktar, Erhan (*with* Poor, H. Vincent) Stochastic differential games in a non-Markovian setting. (English summary) **2005k:91042**
Beggs, A. W. Waiting times and equilibrium selection. (English summary) **2005k:91043**
Bowling, Michael (*with* Veloso, Manuela) Existence of multiagent equilibria with limited agents. (English summary) **2005k:91044**
Brânzei, Rodica A Markov chain approach to three-person games with entropic criteria. (English summary) **2005f:91022**
Chornei, Ruslan K. (*with* Daduna, Hans; Knopov, Pavel S.) Stochastic games for distributed players on graphs. (English summary) **2005f:91023**
Daduna, Hans *see* **Chornei, Ruslan K. et al., 2005f:91023**
Dorofeenko, Victor (*with* Shorish, Jamsheed) Partial differential equation modelling for stochastic fixed strategy distributed systems. (English summary) **2005h:91030**
Fagiolo, Giorgio (*with* Marengo, Luigi; Valente, Marco) Endogenous networks in random population games. (English summary) **2005b:91034**
Ferenstein, Elżbieta Z. On randomized stopping games. (English summary) **2005j:91010**
Ghosh, Mrinal Kanti[2] (*with* Kumar, K. Suresh) A nonzero-sum stochastic differential game in the orthant. (English summary) **2005k:91045**
Golubtsov, P. V. (*with* Lyubetskiĭ, V. A.) The informational structure of dynamic games and the volume of information accessible to players. (Russian. English summary) (*see* **2005f:03002**)
— (*with* Lyubetskiĭ, V. A.) Stochastic dynamic games with information of various types. (Russian. Russian summary) **2005e:91023**
Gómez-Ramírez, E. *see* **Najim, K. et al.**
Guo, Xianping (*with* Hernández-Lerma, Onésimo) Zero-sum games for nonhomogeneous Markov chains with an expected average payoff criterion. (English summary) **2005e:91024**
Harremoës, Peter (*with* Vignat, Christophe) A Nash equilibrium related to the Poisson channel. (English summary) **2005k:91046**
Herings, P. Jean-Jacques (*with* Peeters, Ronald J. A. P.) Stationary equilibria in stochastic games: structure, selection, and computation. (English summary) **2005d:91013**
Hernández-Lerma, Onésimo *see* **Guo, Xianping, 2005e:91024**
Horst, Ulrich Stationary equilibria in discounted stochastic games with weakly interacting players. (English summary) **2005m:91025**
Huisman, Kuno J. M. (*with* Kort, Peter M.) Strategic technology adoption taking into account future technological improvements: a real options approach. (English summary) **2005b:91035**
Ibragimov, A. A. Existence of a value in general Markov games. (Russian. Russian summary) **2005i:91018**
Joosten, Reinoud A note on repeated games with vanishing actions. (English summary) **2005k:91047**

Josephson, Jens (*with* Matros, A. D.) Stochastic imitation in finite games. (English summary) **2005f:91024**
Karatzas, Ioannis (*with* Shubik, Martin; Sudderth, William D.) Information and the existence of stationary Markovian equilibrium. (English summary) **2005k:91048**
Knopov, Pavel S. *see* **Chornei, Ruslan K. et al., 2005f:91023**
Koppel, Oliver Strategy-contingent discounting in repeated PD-games. (English summary)
Kort, Peter M. *see* **Huisman, Kuno J. M., 2005b:91035**
Koshmanenko, Volodymyr A theorem on conflict for a pair of stochastic vectors. (Ukrainian. English and Ukrainian summaries) **2005g:91041**
Küenle, Heinz-Uwe Markov games under a geometric drift condition. (English summary) **2005i:91019**
Kühn, Christoph Game contingent claims in complete and incomplete markets. (English summary) **2005e:91025**
Kumar, K. Suresh *see* **Ghosh, Mrinal Kanti[2], 2005k:91045**
Kushner, Harold J. The Gauss-Seidel numerical procedure for Markov stochastic games. (English summary) **2005h:91031**
— Numerical approximations for stochastic differential games: the ergodic case. (English summary) **2005d:91014**
Laraki, Rida (*with* Solan, Eilon; Vieille, Nicolas) Continuous-time games of timing. (English summary) **2005m:91026**
Lyubetskiĭ, V. A. *see* **Golubtsov, P. V., 2005e:91023** *and* **(2005f:03002)**
Marengo, Luigi *see* **Fagiolo, Giorgio et al., 2005b:91034**
Matros, A. D. *see* **Josephson, Jens, 2005f:91024**
McEneaney, William M. Some classes of imperfect information finite state-space stochastic games with finite-dimensional solutions. (English summary) **2005e:91026**
Mertens, Jean-François (*with* Parthasarathy, T.) Equilibria for discounted stochastic games. (English summary) **2005h:91032**
Montrucchio, Luigi Cass transversality condition and sequential asset bubbles. (English summary) **2005f:91025**
Najim, K. (*with* Poznyak, Alexander S.; Gómez-Ramírez, E.) Adaptive policy for two finite Markov chains zero-sum stochastic game with unknown transition matrices and average payoffs. (English summary)
Neubecker, Leslie Collusion and cyclic pricing by managers in markets with fluctuating demand. (English summary)
Nowak, Andrzej S. Notes on risk-sensitive Nash equilibria. (English summary) **2005i:91020**
— *see also* **Balbus, Łukasz, 2005k:91041**
Oyama, Daisuke Booms and slumps in a game of sequential investment with the changing fundamentals. (English summary) **2005c:91021**
Parthasarathy, T. *see* **Mertens, Jean-François, 2005h:91032**
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Poor, H. Vincent *see* **Bayraktar, Erhan, 2005k:91042**
Poznyak, Alexander S. *see* **Najim, K. et al.**
Rosenberg, Dinah (*with* Solan, Eilon; Vieille, Nicolas) The MaxMin value of stochastic games with imperfect monitoring. (English summary) **2005f:91026**
— (*with* Solan, Eilon; Vieille, Nicolas) Stochastic games with a single controller and incomplete information. (English summary) **2005k:91050**
Sakaguchi, Minoru Three-player game of 'keep-or-exchange'. **2005m:91027**
Secchi, Piercesare (*with* Sudderth, William D.) A simple two-person stochastic game with money. (English summary) **2005m:91028**
Sgurev, Vassil Characteristic features of Markov flow games with linear constraints. (English and Bulgarian summaries)
Shorish, Jamsheed *see* **Dorofeenko, Victor, 2005h:91030**
Shubik, Martin *see* **Karatzas, Ioannis et al., 2005k:91048**
Solan, Eilon Subgame-perfection in quitting games with perfect information and differential equations. (English summary) **2005i:91021**
— *see also* **Rosenberg, Dinah et al., 2005f:91026; 2005k:91050** *and* **Laraki, Rida et al., 2005m:91026**
Sorin, Sylvain Discounted stochastic games: the finite case. (English summary) **2005a:91010**
Sudderth, William D. *see* **Karatzas, Ioannis et al., 2005k:91048** *and* **Secchi, Piercesare, 2005m:91028**
Valente, Marco *see* **Fagiolo, Giorgio et al., 2005b:91034**
Veloso, Manuela *see* **Bowling, Michael, 2005k:91044**
Vieille, Nicolas Two-player non-zero-sum games: a reduction. **2005k:91051**
— On a class of recursive games. **2005k:91052**
— *see also* **Rosenberg, Dinah et al., 2005f:91026; 2005k:91050** *and* **Laraki, Rida et al., 2005m:91026**
Vignat, Christophe *see* **Harremoës, Peter, 2005k:91046**
Vrieze, O. J. Stochastic games and stationary strategies. **2005b:91036**
Wirl, Franz International greenhouse gas emissions when global warming is a stochastic process. (English summary) **2005h:91033**
Xu, Hui Fu An MPCC approach for stochastic Stackelberg-Nash-Cournot equilibrium. (English summary) **2005j:91011**

Items with secondary classifications in 91A15

Abbad, Mohammed *see* **El Azouzi, Rachid et al., 2005k:93066**
Altman, Eitan *see* **El Azouzi, Rachid et al., 2005k:93066**
Arkin, Adam P. *see* **Wolf, Denise M. et al.**
Baron, Richard (*with* Durieu, Jacques; Haller, Hans; Solal, Philippe) Control costs and potential functions for spatial games. (English summary) **2005a:91014**
Barr, Jason (*with* Saraceno, Francesco) Cournot competition, organization and learning. (English summary)
Baston, Vic J. (*with* Garnaev, A. Yu.) Competition for staff between two departments. (*see* **2005j:91002**)
Baurdoux, E. J. (*with* Kyprianou, Andreas E.) Further calculations for Israeli options. (English summary) **2005g:91093**
Becker, Raphen (*with* Zilberstein, Shlomo; Lesser, Victor; Goldman, Claudia V.) Solving transition independent decentralized Markov decision processes. (English summary) **2005k:68178**
Bernstein, Fernando (*with* Federgruen, Awi) A general equilibrium model for industries with price and service competition. (English summary) **2005h:90010**
Bertotti, Maria Letizia (*with* Delitala, Marcello) From discrete kinetic and stochastic game theory to modelling complex systems in applied sciences. (English summary) **2005e:60231**
Bi, Zhi Wei *see* **Mei, Zheng Yang et al., 2005e:91103**
Borm, Peter *see* **Timmer, Judith et al., 2005k:91038**
Brafman, Ronen I. (*with* Tennenholtz, Moshe) Learning to coordinate efficiently: a model-based approach. (English summary) **2005h:68129**
Buckdahn, Rainer (*with* Cardaliaguet, Pierre; Rainer, Catherine) Nash equilibrium payoffs for nonzero-sum stochastic differential games. (English summary) **2005e:91029**
Cardaliaguet, Pierre *see* **Buckdahn, Rainer et al., 2005e:91029**
Cripps, Martin *see* **Keller, Godfrey et al., 2005h:91022**
Delitala, Marcello *see* **Bertotti, Maria Letizia, 2005e:60231**
De Martino, A. (*with* Marsili, Matteo; Pérez Castillo, I.) Statistical mechanics analysis of the equilibria of linear economies. (English summary) **2005j:91058**
Dupuis, Paul Explicit solution to a robust queueing control problem. (English summary) **2005b:62171**
Durieu, Jacques *see* **Baron, Richard et al., 2005a:91014**
Edwards, Ronald A. The structure of authority, federalism, commitment and economic growth. (English summary) **2005j:91057**
Einav, Liran *see* **Quint, Daniel, 2005m:91041**
El Azouzi, Rachid (*with* Altman, Eitan; Abbad, Mohammed) A Taylor series expansion for H^∞ control of perturbed Markov jump linear systems. (English summary) **2005k:93066**
Evgrafov, A. (*with* Patriksson, Michael) On the existence of solutions to stochastic mathematical programs with equilibrium constraints. (English summary) **2005c:90057**
Fagiolo, Giorgio (*with* Marengo, Luigi; Valente, Marco) Population learning in random games with endogenous network formation. (English summary) **2005k:91078**
Federgruen, Awi *see* **Bernstein, Fernando, 2005h:90010**
Figueiredo, J. M. A. Quantum games. (English summary) **2005d:81107**
Fruchter, Gila E. (*with* Tapiero, Charles S.) Dynamic online and offline channel pricing for heterogeneous customers in virtual acceptance. (English summary) **2005m:91077**
Garnaev, A. Yu. *see* **Baston, Vic J., (2005j:91002)**
Goldman, Claudia V. (*with* Zilberstein, Shlomo) Decentralized control of cooperative systems: categorization and complexity analysis. (English summary) **2005j:93007**
— *see also* **Becker, Raphen et al., 2005k:68178**
Goyal, Sanjeev (*with* Vega-Redondo, Fernando) Network formation and social coordination. (English summary) **2005g:91030**
Gukasyan, A. A. (*with* Matevosyan, A. G.) A stochastic game-theoretic problem for the control of the movement of a two-link manipulator. (Russian. Russian and Armenian summaries)
Haller, Hans *see* **Baron, Richard et al., 2005a:91014**
Heller, Dana An evolutionary approach to learning in a changing environment. (English summary) **2005a:91015**
Herings, P. Jean-Jacques *see* **Predtetchinski, Arkadi et al., 2005e:91131**
Hu, Junling (*with* Wellman, Michael P.) Nash Q-learning for general-sum stochastic games. (English summary) **2005m:68180**
Katagiri, Hideki *see* **Nishizaki, Ichiro et al., (2005b:90008)**
Kato, Kosuke *see* **Nishizaki, Ichiro et al., (2005b:90008)**
Keller, Godfrey (*with* Rady, Sven; Cripps, Martin) Strategic experimentation with exponential bandits. (English summary) **2005h:91022**
Kibzun, A. I. (*with* Kuznetsov, E. A.) A positional strategy for forming an investment portfolio. (Russian. Russian summary) **2005k:91158**
Koshmanenko, Volodymyr Theorem of conflicts for a pair of probability measures. (English summary) **2005a:37170**
Kubler, Felix (*with* Polemarchakis, Herakles M.) Stationary Markov equilibria for overlapping generations. (English summary) **2005c:91085**
Kuznetsov, E. A. *see* **Kibzun, A. I., 2005k:91158**
Kyprianou, Andreas E. *see* **Baurdoux, E. J., 2005g:91093**
Lau, Amy Hing Ling (*with* Lau, Hon-Shiang) Some two-echelon supply-chain games: improving from deterministic-symmetric-information to stochastic-asymmetric-information models. (English summary) **2005e:90003**
Lau, Hon-Shiang *see* **Lau, Amy Hing Ling, 2005e:90003**
Lesser, Victor *see* **Becker, Raphen et al., 2005k:68178**
Li, Chu Lin *see* **Mei, Zheng Yang et al., 2005e:91103** *and* **Yang, Ming**
Mannucci, Paola Nonzero-sum stochastic differential games with discontinuous feedback. (English summary) **2005m:91033**
Marengo, Luigi *see* **Fagiolo, Giorgio et al., 2005k:91078**
Marsili, Matteo *see* **De Martino, A. et al., 2005j:91058**
Matevosyan, A. G. *see* **Gukasyan, A. A.**
Matsumoto, Akio Statistical dynamics in piecewise linear Cournot game with heterogeneous duopolists. (English summary) **2005h:91052**
McLennan, Andrew The expected number of Nash equilibria of a normal form game. (English summary) **2005h:91013**
Mei, Zheng Yang (*with* Li, Chu Lin; Bi, Zhi Wei) Analysis of insured debt with limited maturity. (Chinese. English and Chinese summaries) **2005e:91103**
Miękisz, Jacek Stochastic stability in spatial three-player games. (English summary) **2005e:91028**
Mookherjee, Dilip (*with* Tsumagari, Masatoshi) The organization of supplier networks: effects of delegation and intermediation. (English summary) **2005a:91047**
Myatt, David P. (*with* Wallace, Chris C.) Adaptive play by idiosyncratic agents. (English summary) **2005b:91021**
Nishizaki, Ichiro (*with* Sakawa, Masatoshi; Kato, Kosuke; Katagiri, Hideki) Stackelberg solutions to two-level linear programming problems with random variable coefficients. (English summary) (*see* **2005b:90008**)
(Nowak, Andrzej S.) *see* **Advances in dynamic games, 2005g:91009**
Østerdal, Lars Peter Bargaining power in repeated games. (English summary)

2005h:91034
Patriksson, Michael *see* **Evgrafov, A., 2005c:90057**
Pemantle, Robin (*with* Skyrms, Brian) Network formation by reinforcement learning: the long and medium run. (English summary) **2005e:91137**
Pérez Castillo, I. *see* **De Martino, A. et al., 2005j:91058**
Peters, Hans *see* **Predtetchinski, Arkadi et al., 2005e:91131**
Petrosyan, Leon A. *see* **Yeung, David W. K., 2005b:91046**
Polemarchakis, Herakles M. *see* **Kubler, Felix, 2005c:91085**
Predtetchinski, Arkadi (*with* Herings, P. Jean-Jacques; Peters, Hans) The strong sequential core in a dynamic exchange economy. (English summary) **2005e:91131**
Quint, Daniel (*with* Einav, Liran) Efficient entry. (English summary) **2005m:91041**
Rady, Sven *see* **Keller, Godfrey et al., 2005h:91022**
Rainer, Catherine *see* **Buckdahn, Rainer et al., 2005e:91029**
Ramachandran, K. M. (*with* Rao, A. N. V.) N-person stochastic differential games with wideband noise perturbations: pathwise average cost per unit time problem. (English summary) **2005c:91025**
Ramsey, David (*with* Szajowski, Krzysztof) Bilateral approach to the secretary problem. (English summary) (*see* **2005g:91009**)
Rao, A. N. V. *see* **Ramachandran, K. M., 2005c:91025**
Romano, Richard (*with* Yildirim, Huseyin) On the endogeneity of Cournot-Nash and Stackelberg equilibria: games of accumulation. (English summary) **2005h:91015**
Sakaguchi, Minoru Optimal stopping games where players have weighted privilege. (English summary) (*see* **2005g:91009**)
Sakawa, Masatoshi *see* **Nishizaki, Ichiro et al.,** (**2005b:90008**)
Saraceno, Francesco *see* **Barr, Jason**
Sekine, Jun Dynamic minimization of worst conditional expectation of shortfall. (English summary) **2005f:91078**
Shmaya, Eran (*with* Solan, Eilon) Two-player nonzero-sum stopping games in discrete time. (English summary) **2005g:60067**
— (*with* Solan, Eilon) Zero-sum dynamic games and a stochastic variation of Ramsey's theorem. (English summary) **2005g:60026**
Singpurwalla, Nozer D. Warranty: a surrogate of reliability. (English summary) (*see* **2005a:62018**)
Skyrms, Brian *see* **Pemantle, Robin, 2005e:91137**
Solal, Philippe *see* **Baron, Richard et al., 2005a:91014**
Solan, Eilon (*with* Vieille, Nicolas) Deterministic multi-player Dynkin games. (English summary) **2005d:91027**
— *see also* **Shmaya, Eran, 2005g:60026** *and* **2005g:60067**
Sorin, Sylvain New approaches and recent advances in two-person zero-sum repeated games. **2005h:91035**
Szajowski, Krzysztof *see* **Advances in dynamic games, 2005g:91009** *and* **Ramsey, David,** (**2005g:91009**)
Tapiero, Charles S. *see* **Fruchter, Gila E., 2005m:91077**
Tennenholtz, Moshe *see* **Brafman, Ronen I., 2005h:68129**
Tijs, S. H. *see* **Timmer, Judith et al., 2005k:91038**
Timmer, Judith (*with* Borm, Peter; Tijs, S. H.) On three Shapley-like solutions for cooperative games with random payoffs. (English summary) **2005k:91038**
Touzi, Nizar (*with* Vieille, Nicolas) Continuous-time Dynkin games with mixed strategies. (English summary) **2005e:60093**
Tsumagari, Masatoshi *see* **Mookherjee, Dilip, 2005a:91047**
Valente, Marco *see* **Fagiolo, Giorgio et al., 2005k:91078**
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Wallace, Chris C. *see* **Myatt, David P., 2005b:91021**
Wang, Bo[1] Singular control of stochastic linear systems with recursive utility. (English summary) **2005a:93157**
Wellman, Michael P. *see* **Hu, Junling, 2005m:68180**
Wolf, Denise M. (*with* Vazirani, Vijay V.; Arkin, Adam P.) Diversity in times of adversity: probabilistic strategies in microbial survival games. (English summary)
— (*with* Vazirani, Vijay V.; Arkin, Adam P.) A microbial modified prisoner's dilemma game: how frequency-dependent selection can lead to random phase variation. (English summary)
Wu, Zhen Forward-backward stochastic differential equations, linear quadratic stochastic optimal control and nonzero sum differential games. (English summary) **2005m:60127**
Yang, Ming (*with* Li, Chu Lin) Investment option of R&D follower investor in a duopoly model. (Chinese. English and Chinese summaries)
Yeung, David W. K. Endogenous-horizon randomly furcating differential games. **2005a:91022**
— Technical note: Nontransferable individual payoffs in cooperative stochastic differential games. (English summary) **2005f:91033**
— (*with* Petrosyan, Leon A.) Subgame consistent cooperative solutions in stochastic differential games. (English summary) **2005b:91046**
— *see also* **Yu, Wei**
Yildirim, Huseyin *see* **Romano, Richard, 2005h:91015**
Yin, Gang George *see* **Zhao, Lan, 2005k:91209**
Yu, Wei (*with* Yeung, David W. K.) Stochastic pursuit problems with different geometric shapes of reachable sets. (English and Chinese summaries)
Zhao, Lan (*with* Yin, Gang George) A global market oil stockpiling model. (English summary) **2005k:91209**
Zilberstein, Shlomo *see* **Goldman, Claudia V., 2005j:93007** *and* **Becker, Raphen et al., 2005k:68178**
Zygadło, Ryszard Martingale integrals over Poissonian processes and the Ito-type equations with white shot noise. (English summary) **2005a:60093**

Items listed otherwise than by author

Adelaide ★ Advances in dynamic games. **2005g:91009**
Advances in dynamic games ★ Advances in dynamic games. **2005g:91009**

91A18 Games in extensive form

Bonanno, Giacomo A characterization of von Neumann games in terms of memory. (English summary) **2005a:91011**
Demichelis, Stefano (*with* Ritzberger, Klaus; Swinkels, Jeroen M.) The simple geometry of perfect information games. (English summary) **2005c:91022**
Harrenstein, Paul (*with* van der Hoek, Wiebe; Meyer, John-Jules Ch.; Witteveen, Cees) A modal characterization of Nash equilibrium. (English summary) **2005b:91037**
van der Hoek, Wiebe *see* **Harrenstein, Paul et al., 2005b:91037**
Meyer, John-Jules Ch. *see* **Harrenstein, Paul et al., 2005b:91037**
Ritzberger, Klaus *see* **Demichelis, Stefano et al., 2005c:91022**
Swinkels, Jeroen M. *see* **Demichelis, Stefano et al., 2005c:91022**
Witteveen, Cees *see* **Harrenstein, Paul et al., 2005b:91037**

Items with secondary classifications in 91A18

Casajus, André Weak isomorphism of extensive games. (English summary) **2005i:91007**
Cressman, Ross *see* **Hausken, Kjell, 2005a:91026**
Gale, Douglas (*with* Sabourian, Hamid) Complexity and competition. (English summary) **2005k:91124**
Hausken, Kjell (*with* Cressman, Ross) Formalization of multi-level games. (English summary) **2005a:91026**
Imoto, Nobuyuki *see* **Shimamura, Junichi et al., 2005d:81071**
Kline, Jeffrey Jude Imperfect recall and the relationships between solution concepts in extensive games. (English summary) **2005k:91016**
Kuzmics, Christoph Stochastic evolutionary stability in extensive form games of perfect information. (English summary) **2005f:91029**
Mamkina, Svetlana I. *see* **Petrosyan, Leon A., 2005k:91037**
Morikoshi, Fumiaki *see* **Shimamura, Junichi et al., 2005d:81071**
Özdemir, Şahin Kaya *see* **Shimamura, Junichi et al., 2005d:81071**
Petrosyan, Leon A. (*with* Mamkina, Svetlana I.) Value for the game with changing coalitional structure. **2005k:91037**
Sabourian, Hamid *see* **Gale, Douglas, 2005k:91124**
Shimamura, Junichi (*with* Özdemir, Şahin Kaya; Morikoshi, Fumiaki; Imoto, Nobuyuki) Entangled states that cannot reproduce original classical games in their quantum version. (English summary) **2005d:81071**

91A20 Multistage and repeated games

Aramendia, M. (*with* Ruiz, Luis M.; Valenciano Llovera, Federico) The forgiving trigger strategy: an alternative to the trigger strategy. (English summary) **2005a:91012**
Ariosa, D. (*with* Fort, H.) Extended estimator approach for 2×2 games and its mapping to the Ising Hamiltonian. (English summary) **2005m:91029**
Barr, Jason (*with* Saraceno, Francesco) Cournot competition, organization and learning. (English summary)
Bischi, Gian-Italo (*with* Lamantia, Fabio) A competition game with knowledge accumulation and spillovers. (English summary) **2005e:91027**
Breton, Michèle (*with* Turki, Abdalla; Zaccour, Georges) Efficiency of Bertrand and Cournot under precommitment. **2005m:91030**
Cafagna, Vittorio (*with* Coccorese, Paolo) Dynamical systems and the arising of cooperation in a Cournot duopoly. (English summary) **2005k:91053**
Coccorese, Paolo *see* **Cafagna, Vittorio, 2005k:91053**
Deissenberg, Christophe (*with* Gonzalez, Francisco Alvarez) Pareto-improving cheating in an economic policy game. (English summary) **2005c:91023**
Dement'eva, M. B. *see* **Zakharov, Viktor, 2005b:91038**
Ely, Jeffrey C. (*with* Hörner, Johannes; Olszewski, Wojciech) Belief-free equilibria in repeated games. (English summary) **2005k:91054**
de Fontenay, Catherine C. (*with* Gans, Joshua S.) Optional fixed fees in multilateral vertical relations. (English summary) **2005m:91031**
Fort, H. *see* **Ariosa, D., 2005m:91029**
Gans, Joshua S. *see* **de Fontenay, Catherine C., 2005m:91031**
Gonzalez, Francisco Alvarez *see* **Deissenberg, Christophe, 2005c:91023**
Grauèr, L. V. (*with* Petrosyan, Leon A.) Multistage games. (Russian. Russian summary) **2005k:91055**
Hausken, Kjell The battle of the sexes when the future is important. (English summary) **2005j:91012**
Hörner, Johannes *see* **Ely, Jeffrey C. et al., 2005k:91054**
Lamantia, Fabio *see* **Bischi, Gian-Italo, 2005e:91027**
Makowski, Marcin *see* **Piotrowski, Edward W., 2005k:91056**
Mazalov, Vladimir V. *see* **Sakaguchi, Minoru, 2005j:91014**
Mokhon'ko, E. Z. ★ Дискретный и непрерывный режимы получения информации в повторяющейся игре с дополнительным платежом. Часть I. (Russian. Russian summary) [Discrete and continuous regimes for obtaining information in a repeating game with an additional payment. I] **2005j:91013**
Nachbar, John H. Beliefs in repeated games. (English summary) **2005i:91022**
Novikov, D. A. (*with* Shokhina, T. E.) Incentive mechanisms in dynamic active systems. (Russian. Russian summary) **2005f:91027**
Olszewski, Wojciech *see* **Ely, Jeffrey C. et al., 2005k:91054**
Østerdal, Lars Peter Bargaining power in repeated games. (English summary) **2005h:91034**
Petrosyan, Leon A. *see* **Grauèr, L. V., 2005k:91055**
Piotrowski, Edward W. (*with* Makowski, Marcin) Cat's dilemma—transitivity vs. intransitivity. (English summary) **2005k:91056**
Ruiz, Luis M. *see* **Aramendia, M. et al., 2005a:91012**
Sakaguchi, Minoru (*with* Mazalov, Vladimir V.) A non-zero-sum no-information best-choice game. (English summary) **2005j:91014**
Saraceno, Francesco *see* **Barr, Jason**
Semenishchev, Alexey A. Infinitely repeated symmetric 2×2-bimatrix games with finite memory of players graph searching problems with the counteraction. **2005k:91057**
Shokhina, T. E. *see* **Novikov, D. A., 2005f:91027**
Sorin, Sylvain New approaches and recent advances in two-person zero-sum repeated games. **2005h:91035**

Spiegler, Ran Testing threats in repeated games. (English summary) **2005k:91058**
Turki, Abdalla *see* **Breton, Michèle et al., 2005m:91030**
Valenciano Llovera, Federico *see* **Aramendia, M. et al., 2005a:91012**
Wang, Xuejun Tax evasion, tax competition and gains from nondiscrimination with equilibrium mixed strategies. (English summary) **2005a:91013**
Wiseman, Thomas A partial folk theorem for games with unknown payoff distributions. (English summary) **2005i:91023**
Yi, Jiang Discussion on two-phase strategy in infinitely repeated Cournot game. (English and Chinese summaries)
Yoon, Kiho The effective minimax value of asynchronously repeated games. (English summary) **2005k:91059**
Zaccour, Georges *see* **Breton, Michèle et al., 2005m:91030**
Zakharov, Viktor (*with* Dement'eva, M. B.) Multistage cooperative games and problem of time consistency. (English summary) **2005b:91038**

Items with secondary classifications in 91A20

Andrianova, Svetlana Decentralisation and the perceived quality of institutions. (English summary) **2005b:91088**
Benaïm, Michel (*with* Ben Arous, Gérard) A two armed bandit type problem. **2005h:91009**
Ben Arous, Gérard *see* **Benaïm, Michel, 2005h:91009**
Berger, Ulrich Fictitious play in $2 \times n$ games. (English summary) **2005m:91008**
Bernstein, Fernando (*with* Federgruen, Awi) A general equilibrium model for industries with price and service competition. (English summary) **2005h:90010**
Caillaud, Bernard (*with* Mezzetti, Claudio) Equilibrium reserve prices in sequential ascending auctions. (English summary) **2005k:91120**
Chambers, Christopher P. Virtual repeated implementation. (English summary) **2005a:91034**
Coolen, A. C. C. ★ The mathematical theory of minority games. **2005k:91001**
Delgrande, James P. *see* **Schulte, Oliver, 2005k:91074**
Dow, Gregory K. The firm as a nexus of strategies. (English summary) **2005h:91136**
Federgruen, Awi *see* **Bernstein, Fernando, 2005h:90010**
Hill, Douglas E. Errors of judgment and reporting in a law merchant system. (English summary)
Jones, Matt (*with* Zhang, Jun[6]) Rationality and bounded information in repeated games, with application to the iterated prisoner's dilemma. (English summary) **2005g:91052**
Joosten, Reinoud A note on repeated games with vanishing actions. (English summary) **2005k:91047**
Koppel, Oliver Public good provision in legislatures: the dynamics of enlargements. (English summary) **2005d:91039**
— Strategy-contingent discounting in repeated PD-games. (English summary)
Labadie, Pamela Aggregate risk sharing and equivalent financial mechanisms in an endowment economy of incomplete participation. (English summary) **2005e:91120**
Lehrer, Ehud The game of normal numbers. (English summary) **2005a:91003**
Levchenkov, V. S. Stationary strategies in supergames. (Russian) **2005h:91004**
Matsui, Akihiko (*with* Shimizu, Takashi[2]) A theory of money and marketplaces. (English summary) **2005h:91176**
(Mazalov, Vladimir V.) *see* **Game theory and applications. Vol. X, 2005j:91002**
Mezzetti, Claudio *see* **Caillaud, Bernard, 2005k:91120**
Okuguchi, Koji Existence of Nash equilibria in endogenous rent-seeking games. (English summary) **2005h:91087**
Petrakis, Emmanuel (*with* Vlassis, Minas) Endogenous wage bargaining institutions in oligopolistic sectors. (English summary) **2005a:91076**
(Petrosyan, Leon A.) *see* **Game theory and applications. Vol. X, 2005j:91002**
Płatkowski, Tadeusz (*with* Ramsza, Michał) Multimarket minority game. (English summary) **2005m:91083**
Porosiński, Zdzisław Modified strategies in a competitive best choice problem with random priority. (English summary) **2005h:91005**
Ramsza, Michał *see* **Płatkowski, Tadeusz, 2005m:91083**
Renault, Jérôme (*with* Tomala, Tristan) Communication equilibrium payoffs in repeated games with imperfect monitoring. (English summary) **2005e:91013**
Rosenberg, Dinah (*with* Solan, Eilon; Vieille, Nicolas) The MaxMin value of stochastic games with imperfect monitoring. (English summary) **2005f:91026**
Sakaguchi, Minoru Multistage three-person game with arbitration. (English summary) **2005c:91035**
— Optimal stopping games where players have weighted privilege. (English summary) (*see* **2005g:91009**)
Schulte, Oliver (*with* Delgrande, James P.) Representing von Neumann-Morgenstern games in the situation calculus. (English summary) **2005k:91074**
Shimizu, Takashi[2] *see* **Matsui, Akihiko, 2005h:91176**
Solan, Eilon *see* **Rosenberg, Dinah et al., 2005f:91026**
Stanford, William Improvement paths in repeated pure coordination games. (English summary) **2005e:91014**
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Vega-Amaya, Oscar Zero-sum average semi-Markov games: fixed-point solutions of the Shapley equation. (English summary) **2005h:91016**
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Items listed otherwise than by author

Game theory and applications. Vol. X ★ Game theory and applications. Vol. X. **2005j:91002**

91A22 Evolutionary games

Ahmed, Elsayed Mohamed (*with* Hegazi, A. S.; Elgazzar, A. S.) On some variants of prisoner's dilemma dynamics. (English summary) **2005k:91060**
Alexander, J. McKenzie *see* **Vanderschraaf, Peter**
Baron, Richard (*with* Durieu, Jacques; Haller, Hans; Solal, Philippe) Control costs and potential functions for spatial games. (English summary) **2005a:91014**
Bauch, Chris T. (*with* Earn, David J. D.) Vaccination and the theory of games. (English summary) **2005f:91028**
Brandt, Hannelore (*with* Sigmund, Karl) The logic of reprobation: assessment and action rules for indirect reciprocation. (English summary)
Burgos, E. (*with* Ceva, Horacio; Perazzo, R. P. J.) The evolutionary minority game with local coordination. (English summary) **2005d:91015**
Ceva, Horacio *see* **Burgos, E. et al., 2005d:91015**
Chatterjee, Kalyan (*with* Xu, Susan H.) Technology diffusion by learning from neighbours. (English summary) **2005d:91016**
Cressman, Ross (*with* Garay, József; Scarelli, Antonino; Varga, Zoltán) The dynamic stability of coalitionist behaviour for two-strategy bimatrix games. (English summary) **2005g:91042**
Durieu, Jacques *see* **Baron, Richard et al., 2005a:91014**
Dutta, Jayasri (*with* Prasad, Kislaya) Imitation and long run outcomes. (English summary) **2005i:91024**
Earn, David J. D. *see* **Bauch, Chris T., 2005f:91028**
Elgazzar, A. S. *see* **Ahmed, Elsayed Mohamed et al., 2005k:91060**
Eriksson, Anders B. (*with* Lindgren, Kristian; Lundh, Torbjörn) War of attrition with implicit time cost. (English summary)
Garay, József *see* **Cressman, Ross et al., 2005g:91042**
Haller, Hans *see* **Baron, Richard et al., 2005a:91014**
Hegazi, A. S. *see* **Ahmed, Elsayed Mohamed et al., 2005k:91060**
Heller, Dana An evolutionary approach to learning in a changing environment. (English summary) **2005a:91015**
Konrad, Kai A. Altruism and envy in contests: an evolutionarily stable symbiosis. (English summary) **2005b:91039**
Kuzmics, Christoph Stochastic evolutionary stability in extensive form games of perfect information. (English summary) **2005f:91029**
Larson, Nathan Match choice and ghettoization in evolutionary games. (English summary) **2005a:91016**
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Manderick, Bernard *see* **Tuyls, Karl et al., 2005a:91017**
Miękisz, Jacek Statistical mechanics of spatial evolutionary games. (English summary) **2005f:91030**
— Stochastic stability in spatial games. (English summary) **2005g:91043**
— Stochastic stability in spatial three-player games. (English summary) **2005e:91028**
Namatame, Akira *see* **Sato, Hiroshi[3], 2005k:91061**
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Rhode, Paul *see* **Stegeman, Mark, 2005f:91031**
Sato, Hiroshi[3] (*with* Namatame, Akira) Local minority game and emergence of efficient dynamic order. (English summary) **2005k:91061**
Scarelli, Antonino *see* **Cressman, Ross et al., 2005g:91042**
Shi, Kui Ran (*with* Xiao, Tiao Jun[2]) Evolutionary game analysis of duopolistic market with vertical production differentiation. (Chinese. English and Chinese summaries) **2005c:91024**
Sigmund, Karl *see* **Brandt, Hannelore**
Solal, Philippe *see* **Baron, Richard et al., 2005a:91014**
Squintani, Francesco Backward induction and model deterioration. (English summary) **2005h:91036**
Stegeman, Mark (*with* Rhode, Paul) Stochastic Darwinian equilibria in small and large populations. (English summary) **2005f:91031**
Tuyls, Karl (*with* Nowe, Ann; Lenaerts, Tom; Manderick, Bernard) An evolutionary game theoretic perspective on learning in multi-agent systems. (English summary) **2005a:91017**
Vanderschraaf, Peter (*with* Alexander, J. McKenzie) Follow the leader: local interactions with influence neighborhoods. (English summary)
Varga, Zoltán *see* **Cressman, Ross et al., 2005g:91042**
Xiao, Tiao Jun[2] *see* **Shi, Kui Ran, 2005c:91024**
Xu, Susan H. *see* **Chatterjee, Kalyan, 2005d:91016**

Items with secondary classifications in 91A22

Abbass, Hussein A. *see* **Sarker, Ruhul**
Ahmed, Elsayed Mohamed (*with* Hegazi, A. S.; Elgazzar, A. S.) On persistence and stability of some biological systems with cross diffusion. (English summary)
Alboszta, Jan (*with* Miękisz, Jacek) Stability of evolutionarily stable strategies in discrete replicator dynamics with time delay. (English summary)
Alexander, J. McKenzie Random Boolean networks and evolutionary game theory. (English summary) **2005a:91105**
Alós-Ferrer, Carlos (*with* Ania, Ana B.) The asset market game. (English summary) **2005k:91009**
Amable, Bruno *see* **Ernst, Ekkehard C. et al., 2005m:91128**
Amir, Rabah (*with* Evstigneev, Igor V.; Hens, Thorsten; Schenk-Hoppé, Klaus Reiner) Market selection and survival of investment strategies. (English summary) **2005i:91058**
Ania, Ana B. *see* **Alós-Ferrer, Carlos, 2005k:91009**
Berger, Ulrich Fictitious play in $2 \times n$ games. (English summary) **2005m:91008**
Bowers, Roger G. *see* **White, Andrew R., 2005j:92019**
Brock, William A. (*with* Hommes, Cars H.; Wagener, Florian O. O.) Evolutionary dynamics in markets with many trader types. (English summary) **2005k:91119**
Broom, Mark (*with* Ruxton, Graeme D.) A game theoretic approach to conspecific brood parasitism. (English summary) (*see* **2005d:92001**)
— Some theoretical developments on the number of ESSs of a matrix game. (English summary) (*see* **2005d:92001**)

— (*with* Ruxton, Graeme D.) A framework for modelling and analysing conspecific brood parasitism. (English summary) **2005c:92045**
Browning, Lindsay (*with* Colman, Andrew M.) Evolution of coordinated alternating reciprocity in repeated dyadic games. (English summary)
Bukowski, Maciej (*with* Miękisz, Jacek) Evolutionary and asymptotic stability in symmetric multi-player games. (English summary) **2005h:91008**
Cannings, Chris *see* **Haccou, Patsy et al.**
Carreño, Ramón *see* **López, Inmaculada et al.**, (**2005d:92001**)
Cason, Timothy N. (*with* Saijo, Tatsuyoshi; Yamato, Takehiko; Yokotani, Konomu) Non-excludable public good experiments. (English summary)
Cheon, Taksu (*with* Ohta, Shigemi) Suppression of ecological competition by an apex predator. (English summary) **2005k:92069**
Colman, Andrew M. *see* **Browning, Lindsay**
Cressman, Ross (*with* Garay, József) Evolutionary stability in Lotka-Volterra systems. (English summary) **2005c:92043**
Dinís, Luis (*with* Parrondo, Juan M. R.) Inefficiency of voting in Parrondo games. (English summary) **2005e:91048**
Elgazzar, A. S. *see* **Ahmed, Elsayed Mohamed et al.**
Ernst, Ekkehard C. (*with* Amable, Bruno; Palombarini, Stefano) Endogenous shocks and evolutionary strategy: application to a three-players game. (English summary) **2005m:91128**
Evstigneev, Igor V. *see* **Amir, Rabah et al.**, **2005i:91058**
Fagiolo, Giorgio Endogenous neighborhood formation in a local coordination model with negative network externalities. (English summary) **2005i:91009**
Gaffïchuk, V. V. (*with* Prikarpat·skiĭ, A. K.) Replicator dynamics and mathematical description of multi-agent interaction in complex systems. (English summary) **2005e:92028**
Gámez, Manuel *see* **López, Inmaculada et al.**, (**2005d:92001**)
Garay, József *see* **Cressman, Ross**, **2005c:92043**
Gerding, E. H. (*with* La Poutré, Johannes A.) Bargaining with posterior opportunities: an evolutionary social simulation. (English summary) **2005m:91078**
Glaizot, Olivier *see* **Haccou, Patsy et al.**
Gyllenberg, Mats (*with* Meszéna, Géza) On the impossibility of coexistence of infinitely many strategies. (English summary) **2005i:92017**
Haccou, Patsy (*with* Glaizot, Olivier; Cannings, Chris) Patch leaving strategies and superparasitism: an asymmetric generalized war of attrition. (English summary)
Haiden, Nina *see* **Hauert, Christoph et al.**
Hauert, Christoph (*with* Haiden, Nina; Sigmund, Karl) The dynamics of public goods. (English summary)
Hegazi, A. S. *see* **Ahmed, Elsayed Mohamed et al.**
Hens, Thorsten (*with* Schenk-Hoppé, Klaus Reiner) Evolutionary finance: introduction to the special issue. (English summary)
— (*with* Schenk-Hoppé, Klaus Reiner) Evolutionary stability of portfolio rules in incomplete markets. (English summary) **2005j:91040**
— *see also* **Amir, Rabah et al.**, **2005i:91058**
Hommes, Cars H. *see* **Brock, William A. et al.**, **2005k:91119**
Houston, Alasdair I. *see* **Skubic, Eva et al.** *and* **McNamara, John M.**
Iwasa, Yoh *see* **Ohtsuki, Hisashi**
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Kharchenko, N. V. *see* **Koshmanenko, Volodymyr**, **2005g:37010**
Kim, Kyungsik (*with* Yoon, Seong-Min; Yum, Myung Kul) Dynamics of the minority game for patients. (English summary)
Koshmanenko, Volodymyr (*with* Kharchenko, N. V.) Invariant points of a dynamical system of conflict in the space of piecewise uniformly distributed measures. (Ukrainian. English and Ukrainian summaries) **2005g:37010**
Krabs, Werner (*with* Pickl, Stefan Wolfgang) ★ Analysis, controllability and optimization of time-discrete systems and dynamical games. **2005b:93003**
La Poutré, Johannes A. *see* **Gerding, E. H.**, **2005m:91078**
López, Inmaculada (*with* Gámez, Manuel; Carreño, Ramón; Varga, Zoltán) Recovering genetic processes from phenotypic observation. (English summary) (*see* **2005d:92001**)
Luo, Dang (*with* Wu, Shun Xiang) Research on binary finite zero-sum Grey games with mixed strategies. (Chinese. English and Chinese summaries)
Lux, Thomas (*with* Schornstein, Sascha) Genetic learning as an explanation of stylized facts of foreign exchange markets. (English summary)
Matsui, Akihiko (*with* Shimizu, Takashi[2]) A theory of money and marketplaces. (English summary) **2005h:91176**
McNamara, John M. (*with* Houston, Alasdair I.) If animals know their own fighting ability, the evolutionarily stable level of fighting is reduced. (English summary)
— *see also* **Skubic, Eva et al.**
Meszéna, Géza *see* **Gyllenberg, Mats**, **2005i:92017**
Miękisz, Jacek Equilibrium selection in evolutionary games with random matching of players. (English summary)
— *see also* **Bukowski, Maciej**, **2005h:91008** *and* **Alboszta, Jan**
Motro, Uzi *see* **Yaniv, Osnat**
Ohta, Shigemi *see* **Cheon, Taksu**, **2005k:92069**
Ohtsuki, Hisashi (*with* Iwasa, Yoh) How should we define goodness?—reputation dynamics in indirect reciprocity. (English summary)
— (*with* Iwasa, Yoh) Erratum to: "How should we define goodness?—reputation dynamics in indirect reciprocity" [J. Theoret. Biol. **231** (2004), no. 1, 107–120; MR2107553]. **Page, Karen M.** Unifying evolutionary dynamics and a mathematical definition of selection. (English summary) (*see* **2005d:92001**)
Palombarini, Stefano *see* **Ernst, Ekkehard C. et al.**, **2005m:91128**
Parrondo, Juan M. R. *see* **Dinís, Luis**, **2005e:91048**
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Saijo, Tatsuyoshi *see* **Cason, Timothy N. et al.**
Sarker, Ruhul (*with* Abbass, Hussein A.) Differential evolution for solving multiobjective optimization problems. (English summary)
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Scheuring, István The iterated continuous prisoner's dilemma game cannot explain the evolution of interspecific mutualism in unstructured populations. (English summary)
Schlee, Walter ★ Einführung in die Spieltheorie. (German) [Introduction to game theory] **2005g:91005**
Schornstein, Sascha *see* **Lux, Thomas**
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Sigmund, Karl *see* **Hauert, Christoph et al.**
Skubic, Eva (*with* Taborsky, Michael; McNamara, John M.; Houston, Alasdair I.) When to parasitize? A dynamic optimization model of reproductive strategies in a cooperative breeder. (English summary)
Sloth, Birgitte *see* **Jensen, Mogens et al.**, **2005g:91053**
Suzuki, Yukari (*with* Toquenaga, Yukihiko) Effects of information and group structure on evolution of altruism: analysis of two-score model by covariance and contextual analyses. (English summary)
Taborsky, Michael *see* **Skubic, Eva et al.**
Toquenaga, Yukihiko *see* **Suzuki, Yukari**
Varga, Zoltán *see* **López, Inmaculada et al.**, (**2005d:92001**)
Vincent, Thomas L. The G-function method for analyzing Darwinian dynamics. (English summary) **2005e:92032**
Wagener, Florian O. O. *see* **Brock, William A. et al.**, **2005k:91119**
Wang, Bing Hong[1] *see* **Xie, Yan Bo et al.**, **2005b:91075**
Wang, Weining *see* **Xie, Yan Bo et al.**, **2005b:91075**
White, Andrew R. (*with* Bowers, Roger G.) Adaptive dynamics of Lotka-Volterra systems with trade-offs: the role of interspecific parameter dependence in branching. (English summary) **2005j:92019**
Whitta-Jacobsen, Hans Jørgen *see* **Jensen, Mogens et al.**, **2005g:91053**
Wu, Shun Xiang *see* **Luo, Dang**
Xie, Yan Bo (*with* Wang, Bing Hong[1]; Yang, Weisong; Wang, Weining) The mechanism for the self-adaptation behavior in the evolutionary minority game model. (English summary) **2005b:91075**
Yamato, Takehiko *see* **Cason, Timothy N. et al.**
Yang, Weisong *see* **Xie, Yan Bo et al.**, **2005b:91075**
Yaniv, Osnat (*with* Motro, Uzi) The parental investment conflict in continuous time: St. Peter's fish as an example. (English summary)
— (*with* Motro, Uzi) Time-dependent animal conflicts. I. The symmetric case. (English summary)
— (*with* Motro, Uzi) Time-dependent animal conflicts. II. The asymmetric case. (English summary)
Yokotani, Konomu *see* **Cason, Timothy N. et al.**
Yoon, Seong-Min *see* **Kim, Kyungsik et al.**
Yum, Myung Kul *see* **Kim, Kyungsik et al.**

Items listed otherwise than by author

Lecture Notes in Economics and Mathematical Systems *see* **Krabs, Werner**, **2005b:93003**

91A23 Differential games [see also 49N70]

Amirgalieva, S. N. (*with* Ostapenko, Valentin Vladimirovich; Ostapenko, E. V.) Investigation of matrix-convex functions. (Russian. English and Ukrainian summaries) **2005k:91062**
Azevedo-Perdicoúlis, Teresa Paula (*with* Jank, Gerhard) Iterative solution of algebraic matrix Riccati equations in open loop Nash games. (English summary) **2005g:91044**
Bressan, Alberto (*with* Shen, Wen) Small BV solutions of hyperbolic noncooperative differential games. (English summary) **2005d:91017**
Breton, Michèle (*with* Zaccour, Georges; Zahaf, Mehdi) A differential game of joint implementation of environmental projects. (English and Chinese summaries)
Brykalov, S. A. On differential games with an uncertain initial vector. (Russian) **2005i:91025**
Buckdahn, Rainer (*with* Cardaliaguet, Pierre; Rainer, Catherine) Nash equilibrium payoffs for nonzero-sum stochastic differential games. (English summary) **2005e:91029**
Cardaliaguet, Pierre (*with* Plaskacz, Slawomir) Existence and uniqueness of a Nash equilibrium feedback for a simple nonzero-sum differential game. (English summary) **2005e:91030**
— *see also* **Buckdahn, Rainer et al.**, **2005e:91029**
Carlson, Dean A. (*with* Leitmann, George) An extension of the coordinate transformation method for open-loop Nash equilibria. (English summary) **2005g:91045**
— Normalized overtaking Nash equilibrium for a class of distributed parameter dynamic games. (English summary) **2005j:91015**
Cellini, Roberto (*with* Lambertini, Luca) Advertising with spillover effects in a differential oligopoly game with differentiated goods. (English summary) **2005a:91018**
— (*with* Lambertini, Luca) Dynamic oligopoly with sticky prices: closed-loop, feedback, and open-loop solutions. (English summary) **2005b:91041**
Chentsov, A. G. Multivalued quasistrategies and the method of programmed iterations. (Russian. Russian summary) **2005h:91037**
Chiarella, Carl *see* **Szidarovszky, Ferenc et al.**, **2005e:91033**
Chikriĭ, Arkadii A. (*with* Chikriĭ, G. Ts.; Ėĭdel'man, Samuil Davidovich) Linear fractal approach games. (Russian. Russian summary) **2005h:91038**
Chikriĭ, G. Ts. *see* **Chikriĭ, Arkadii A. et al.**, **2005h:91038**
Clark, J. M. C. (*with* Vinter, Richard B.) On the interpretation of non-anticipative control strategies in differential games and applications to flow control. (English summary) **2005d:91018**
— *see also* **Vinter, Richard B. et al.**, **2005j:91016**
Clemhout, Simone (*with* Wan, Henry, Jr.) Differential games with semi-uncertain dynamics. (English summary) **2005b:91042**
Colombo, Luca (*with* Lambertini, Luca) Dynamic advertising under vertical product differentiation. (English summary) **2005g:91046**
— (*with* Lambertini, Luca; Mantovani, Andrea) A differential game with investment in transport and communication R&D. **2005k:91063**

Èĭdel′man, Samuil Davidovich *see* **Chikrii, Arkadii A. et al., 2005h:91038**
Engel, Andrew *see* **Szidarovszky, Ferenc et al., 2005e:91033**
Fredj, Karima (*with* Martín-Herrán, Guiomar; Zaccour, Georges) Slowing deforestation pace through subsidies: a differential game. (English summary) **2005m:91032**
Ghosh, Mrinal Kanti[2] (*with* Shaiju, A. J.) Existence of value and saddle point in infinite-dimensional differential games. (English summary) **2005e:91031**
Ibragimov, G. I. An n-person differential game with integral constraints on the controls of the players. (Russian) **2005b:91043**
Ignatenko, A. P. Solution of a class of problems of the interaction of groups of controlled objects on a plane. (Russian. Russian summary) **2005d:91019**
Ivanov, G. E. Differential games with ellipsoidal penalties. (Russian. Russian summary) **2005h:91039**
James, M. R. *see* **Vinter, Richard B. et al., 2005j:91016**
Jank, Gerhard *see* **Azevedo-Perdicoúlis, Teresa Paula, 2005g:91044**
Jun, Byoung (*with* Vives, Xavier) Strategic incentives in dynamic duopoly. (English summary) **2005e:91032**
Kleimenov, A. F. Problems of constructing dynamics for nonantagonistic positional differential games. (English summary) **2005g:91047**
Kovrizhnykh, A. Yu. On the problem of conflict control with a quasipositional functional. (English summary) **2005b:91044**
Lambertini, Luca *see* **Cellini, Roberto, 2005a:91018; 2005b:91041; Colombo, Luca et al., 2005g:91046** *and* **2005k:91063**
Leitmann, George *see* **Carlson, Dean A., 2005g:91045**
Maksimushkina, E. V. (*with* Tarakanov, A. F.) A cooperative differential game under uncertainty, and the stability of the cooperative structure. (Russian. Russian summary) **2005i:91026**
Mamedov, M. B. Investigation of unimprovable equilibrium situations in nonlinear conflict-controlled dynamical systems. (Russian. Russian summary) **2005a:91019**
Mannucci, Paola Nonzero-sum stochastic differential games with discontinuous feedback. (English summary) **2005m:91033**
Mantovani, Andrea *see* **Colombo, Luca et al., 2005k:91063**
Martín-Herrán, Guiomar *see* **Fredj, Karima et al., 2005m:91032**
Mukaidani, Hiroaki A new design approach for solving linear quadratic Nash games of multiparameter singularly perturbed systems. (English summary)
Okuguchi, Koji (*with* Yamazaki, Takeshi[1]) Stability of equilibrium in Bertrand and Cournot duopolies. (English summary) **2005f:91032**
Ostapenko, E. V. *see* **Amirgalieva, S. N. et al., 2005k:91062**
Ostapenko, Valentin Vladimirovich *see* **Amirgalieva, S. N. et al., 2005k:91062**
Pankratova, Yaroslavna (*with* Tarashnina, Svetlana) How many people can be controlled in a group pursuit game. (English summary) **2005h:91040**
Paraev, Yu. I. A game-theoretic approach to the solution of the problem of the production, storage, and sale of a commodity. (Russian. Russian summary) **2005k:91064**
Patsko, V. S. Switching surfaces in linear differential games with fixed termination time. (Russian. Russian summary) **2005k:91065**
Petrosyan, Leon A. (*with* Shevkoplyas, Ekaterina V.) Cooperative solutions for games with random duration. **2005i:91027**
— *see also* **Yeung, David W. K., 2005b:91046** *and* **2005m:91035**
Plaskacz, Slawomir *see* **Cardaliaguet, Pierre, 2005e:91030**
Rainer, Catherine *see* **Buckdahn, Rainer et al., 2005e:91029**
Ramachandran, K. M. (*with* Rao, A. N. V.) N-person stochastic differential games with wideband noise perturbations: pathwise average cost per unit time problem. (English summary) **2005c:91025**
Rao, A. N. V. *see* **Ramachandran, K. M., 2005c:91025**
Rincón-Zapatero, J. P. Characterization of Markovian equilibria in a class of differential games. (English summary) **2005a:91020**
Saint-Pierre, Patrick Viable capture basin for studying differential and hybrid games: application to finance. (English summary) **2005c:91026**
Sandal, Leif K. (*with* Steinshamn, Stein-Ivar) Dynamic Cournot-competitive harvesting of a common pool resource. (English summary) **2005g:91048**
Shaiju, A. J. Infinite horizon differential games for abstract evolution equations. (English summary) **2005d:91020**
— *see also* **Ghosh, Mrinal Kanti[2], 2005e:91031**
Shen, Wen *see* **Bressan, Alberto, 2005d:91017**
Shevkoplyas, Ekaterina V. *see* **Petrosyan, Leon A., 2005i:91027**
Smol′yakov, È. R. Asymmetric equilibria and differential games. (Russian. Russian summary) **2005b:91045**
— Coordinated equilibria in dynamical systems. (Russian) **2005m:91034**
Sokolov, S. V. On the solution of the problem of a differential game for distributed dynamical systems. (Russian. English, Russian and Ukrainian summaries) **2005h:91041**
Steinshamn, Stein-Ivar *see* **Sandal, Leif K., 2005g:91048**
Szidarovszky, Ferenc (*with* Engel, Andrew; Chiarella, Carl) A game theoretical model of international fishing with time delay. (English summary) **2005e:91033**
Tarakanov, A. F. *see* **Maksimushkina, E. V., 2005i:91026**
Tarashnina, Svetlana *see* **Pankratova, Yaroslavna, 2005h:91040**
Tokmantsev, T. B. *see* **Ushakov, Vladimir N. et al., 2005i:91028**
Tong, Yu-yuan *see* **Zhang, Rong[3] et al., 2005m:91036**
Tukhtasinov, M. On the starting control of the oscillations of a string. (Russian. English and Ukrainian summaries) **2005a:91021**
Ushakov, Vladimir N. (*with* Uspenskiĭ, A. A.; Tokmantsev, T. B.) Stable bridges in differential games in a finite time interval. (English summary) **2005i:91028**
Uspenskiĭ, A. A. *see* **Ushakov, Vladimir N. et al., 2005i:91028**
Vinter, Richard B. (*with* Clark, J. M. C.; James, M. R.) The interpretation of discontinuous state feedback control laws as nonanticipative control strategies in differential games. (English summary) **2005j:91016**
— *see also* **Clark, J. M. C., 2005d:91018**
Vives, Xavier *see* **Jun, Byoung, 2005e:91032**
Wan, Henry, Jr. *see* **Clemhout, Simone, 2005b:91042**
Xu, Jun-ying *see* **Zhang, Rong[3] et al., 2005m:91036**
Yamazaki, Takeshi[1] *see* **Okuguchi, Koji, 2005f:91032**
Yeung, David W. K. Endogenous-horizon randomly furcating differential games. **2005a:91022**
— Technical note: Nontransferable individual payoffs in cooperative stochastic differential games. (English summary) **2005f:91033**
— (*with* Petrosyan, Leon A.) Subgame consistent cooperative solutions in stochastic differential games. (English summary) **2005b:91046**
— (*with* Petrosyan, Leon A.) Subgame consistent solutions of a cooperative stochastic differential game with nontransferable payoffs. (English summary) **2005m:91035**
Zaccour, Georges *see* **Fredj, Karima et al., 2005m:91032** *and* **Breton, Michèle et al.**
Zahaf, Mehdi *see* **Breton, Michèle et al.**
Zhang, Rong[3] (*with* Tong, Yu-yuan; Xu, Jun-ying) A simplified differential game model for the optimal choice of tax rate. (English summary) **2005m:91036**

Items with secondary classifications in 91A23

Abbad, Mohammed *see* **El Azouzi, Rachid et al., 2005k:93066**
Al′brekht, È. G. Constructing the approximate solutions of some quasilinear differential games. (English summary) **2005g:49065**
Aleksandrov, Vladimir Vasil′evich (*with* Gutiérrez Arias, J. E. Moisés) About the maximin testing strategy. (English summary) **2005i:49020**
Altman, Eitan *see* **El Azouzi, Rachid et al., 2005k:93066**
Angelova, Vera A. (*with* Gu, Da-Wei; Konstantinov, Mikhail M.; Petkov, Petko Khr.) Perturbation bounds for general coupled matrix Riccati equations. (English and Bulgarian summaries) (*see* **2005f:00011**)
Atar, Rami (*with* Shwartz, Adam; Dupuis, Paul) Explicit solution for a network control problem in the large deviation regime. (English summary) **2005g:60042**
Bass, F. M. (*with* Krishnamoorthy, A.; Prasad, Ashutosh; Sethi, Suresh P.) Advertising competition with market expansion for finite horizon firms. (English summary) **2005j:90035**
Bayraktar, Erhan (*with* Poor, H. Vincent) Stochastic differential games in a non-Markovian setting. (English summary) **2005k:91042**
Bernhard, Pierre (*with* Deissenberg, Christophe) Introduction: a special issue dedicated to George Leitmann.
Breitner, M. H. The genesis of differential games in light of Isaacs' contributions. (English summary)
Castaing, Charles (*with* Jofré, A.; Salvadori, Anna) Control problems governed by functional evolution inclusions with Young measures. (English summary) **2005b:49009**
Cellini, Roberto (*with* Lambertini, Luca) Private and social incentives towards investment in product differentiation. (English summary) **2005i:91081**
Chentsov, A. G. A method of programmed iterations for solving an abstract confinement problem. (Russian. Russian summary) **2005d:91022**
— The method of programmed iterations in abstract control problems. (Russian. Russian summary) **2005h:49013**
Chernous′ko, F. L. Optimal control for a class of systems subjected to disturbances. (Russian. Russian summary) **2005i:49027**
Chikrii, Arkadii A. (*with* Matichin, I. I.) Linear differential games with impulse control of the evader. (Russian. English summary) **2005m:91037**
Deissenberg, Christophe *see* **Bernhard, Pierre**
Dockner, Engelbert J. (*with* Fruchter, Gila E.) Dynamic strategic pricing and speed of diffusion. (English summary) **2005g:90069**
Dupuis, Paul Explicit solution to a robust queueing control problem. (English summary) **2005b:62171**
— *see also* **Atar, Rami et al., 2005g:60042**
El Azouzi, Rachid (*with* Altman, Eitan; Abbad, Mohammed) A Taylor series expansion for H^∞ control of perturbed Markov jump linear systems. (English summary) **2005k:93066**
Engel, Andrew International fishing as dynamic oligopoly with time delay. (English summary) **2005a:91102**
Falcone, Maurizio (*with* Stefani, Paolo) Advances in parallel algorithms for the Isaacs equation. (English summary) **2005h:65157**
Faria, João Ricardo The game academics play: editors versus authors. (English summary) **2005h:91055**
Feichtinger, Gustav Multiple equilibria in optimal control models—a research program. (English summary)
Fruchter, Gila E. *see* **Dockner, Engelbert J., 2005g:90069**
Gershon, E. (*with* Limebeer, D. J. N.; Shaked, U.; Yaesh, I.) Stochastic H_∞ tracking with preview for state-multiplicative systems. (English summary) **2005f:93047**
— (*with* Shaked, U.; Yaesh, I.) H_∞ tracking of linear continuous-time systems with stochastic uncertainties and preview. (English summary) **2005b:93057**
Ghosh, Mrinal Kanti[2] (*with* Kumar, K. Suresh) A nonzero-sum stochastic differential game in the orthant. (English summary) **2005k:91045**
Glizer, Valery Y. *see* **Turetskiĭ, Vladimir Ya., 2005h:93022** *and* **2005m:91039**
Grigor′eva, S. V. (*with* Taras′ev, A. M.; Uspenskiĭ, A. A.; Ushakov, Vladimir N.) Constructions of the differential game theory for solving the Hamilton-Jacobi equations. (English summary) **2005m:49047**
Groot, Fons (*with* Withagen, Cees; de Zeeuw, Aart) Strong time-consistency in the cartel-versus-fringe model. (English summary) **2005b:91181**
Gu, Da-Wei *see* **Angelova, Vera A. et al., (2005f:00011)**
Gutiérrez Arias, J. E. Moisés *see* **Aleksandrov, Vladimir Vasil′evich, 2005i:49020**
Hohzaki, Ryusuke (*with* Washburn, Alan R.) An approximation for a continuous datum search game with energy constraint. (English summary) **2005d:91023**
Ibragimov, G. I. Collective pursuit with integral constraints on the controls of players [Translation of Mat. Tr. **6** (2003), no. 2, 66–79; MR2033647 (2004k:49092)]. (English summary)
(Isaacs, Rufus Philip) *see* **Breitner, M. H.**
Jahn, Johannes ★ Vector optimization. **2005c:49001**
Jofré, A. *see* **Castaing, Charles et al., 2005b:49009**
Kaitala, Veijo (*with* Lindroos, Marko) When to ratify an environmental agreement: the case of high seas fisheries. (English summary) **2005c:91102**
Kang, H. S. Adaptive differential game formulation—submicron optical laser. (English summary)
Konstantinov, Mikhail M. *see* **Angelova, Vera A. et al., (2005f:00011)**

Kotel′nikova, A. N. A problem of game stochastic stabilization of a controlled object. (English summary) **2005h:93135**
Krishnamoorthy, A. *see* **Bass, F. M. et al., 2005j:90035**
Kryazhimskiĭ, A. V. (*with* Osipov, Yu. S.) On an algorithmic criterion of the solvability of game problems for linear controlled systems. (English summary) **2005a:49074**
Kumar, K. Suresh *see* **Ghosh, Mrinal Kanti[2], 2005k:91045**
Kurzhanskiĭ, Aleksandr Borisovich (*with* Varaiya, Pravin P.) On reachability under uncertainty. (English summary) **2005e:93017**
Kushner, Harold J. Numerical approximations for stochastic differential games: the ergodic case. (English summary) **2005d:91014**
Lambertini, Luca *see* **Cellini, Roberto, 2005i:91081**
Leitmann, George *see* **Seube, N. et al., 2005f:91042** *and* **Bernhard, Pierre**
Limebeer, D. J. N. *see* **Gershon, E. et al., 2005f:93047**
Lindroos, Marko *see* **Kaitala, Veijo, 2005c:91102**
Liu, Kun Hui *see* **Yang, Rui-Cheng et al., 2005k:93246**
Liu, Wei An (*with* Lu, Gang[2]) Viscosity solutions of monotonic functional parabolic PDE. (English summary) **2005h:35349**
Lu, Gang[2] *see* **Liu, Wei An, 2005h:35349**
Lukoyanov, Nikolai On the extremal aiming in problems of the control of systems with aftereffect. (Russian. English and Russian summaries) **2005a:49006**
— Functional Hamilton-Jacobi type equations with ci-derivatives in control problems with hereditary information. (English summary) **2005e:49058**
— Strategies for aiming in the direction of invariant gradients. (Russian. Russian summary) **2005h:49083**
Matichin, I. I. *see* **Chikrii, Arkadii A., 2005m:91037**
(Mazalov, Vladimir V.) *see* **Game theory and applications. Vol. X, 2005j:91002**
Mikheev, S. E. Safety zones in games with life line. (English summary) **2005i:91048**
Mirică, Ştefan A constructive dynamic programming approach to differential games. (English summary) **2005a:49058**
Moitie, R. *see* **Seube, N. et al., 2005f:91042**
Mokhon′ko, E. Z. ★ Дискретный и непрерывный режимы получения информации в повторяющейся игре с дополнительным платежом. Часть I. (Russian. Russian summary) [Discrete and continuous regimes for obtaining information in a repeating game with an additional payment. I] **2005j:91013**
Mukaidani, Hiroaki (*with* Xu, Hua) Recursive computation of Nash strategy for multiparameter singularly perturbed systems. (English summary) **2005g:49066**
(Nowak, Andrzej S.) *see* **Advances in dynamic games, 2005g:91009**
Osipov, Yu. S. *see* **Kryazhimskiĭ, A. V., 2005a:49074**
Petkov, Petko Khr. *see* **Angelova, Vera A. et al., (2005f:00011)**
(Petrosyan, Leon A.) *see* **Game theory and applications. Vol. X, 2005j:91002**
Petrov, Nikolaĭ Nikandrovich "Soft" capture in an example of L. S. Pontryagin with several participants. (Russian. Russian summary) **2005g:49067**
Poor, H. Vincent *see* **Bayraktar, Erhan, 2005k:91042**
Prasad, Ashutosh *see* **Bass, F. M. et al., 2005j:90035**
Salvadori, Anna *see* **Castaing, Charles et al., 2005b:49009**
Sethi, Suresh P. *see* **Bass, F. M. et al., 2005j:90035**
Seube, N. (*with* Moitie, R.; Leitmann, George) Aircraft take-off in windshear: a viability approach. (English summary) **2005f:91042**
Shaked, U. *see* **Gershon, E. et al., 2005b:93057** *and* **2005f:93047**
Shwartz, Adam *see* **Atar, Rami et al., 2005g:60042**
Stefani, Paolo *see* **Falcone, Maurizio, 2005h:65157**
Stukalov, A. S. *see* **Vasil′ev, F. P., 2005m:91014**
Subbotina, N. N. Singular approximations of minimax and viscosity solutions to Hamilton-Jacobi equations. (English summary) **2005e:35033**
(Szajowski, Krzysztof) *see* **Advances in dynamic games, 2005g:91009**
Taras′ev, A. M. *see* **Grigor′eva, S. V. et al., 2005m:49047**
Turetskiĭ, Vladimir Ya. (*with* Glizer, Valery Y.) Robust state-feedback controllability of linear systems to a hyperplane in a class of bounded controls. (English summary) **2005h:93022**
— (*with* Glizer, Valery Y.) Continuous feedback control strategy with maximal capture zone in a class of pursuit games. (English summary) **2005m:91039**
Ukhobotov, V. I. Synthesis of guaranteed control based on approximating scheme. (English summary) **2005a:93069**
Ushakov, Vladimir N. *see* **Grigor′eva, S. V. et al., 2005m:49047**
Uspenskiĭ, A. A. *see* **Grigor′eva, S. V. et al., 2005m:49047**
Varaiya, Pravin P. *see* **Kurzhanskiĭ, Aleksandr Borisovich, 2005e:93017**
Vasil′ev, F. P. (*with* Stukalov, A. S.) Approximation of an equilibrium problem with respect to the argument. (Russian. Russian summary) **2005m:91014**
Wang, Bo[1] Singular control of stochastic linear systems with recursive utility. (English summary) **2005a:93157**
Washburn, Alan R. *see* **Hohzaki, Ryusuke, 2005d:91023**
Withagen, Cees *see* **Groot, Fons et al., 2005b:91181**
Wu, Zhen Forward-backward stochastic differential equations, linear quadratic stochastic optimal control and nonzero sum differential games. (English summary) **2005m:60127**
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Xu, Hua *see* **Mukaidani, Hiroaki, 2005g:49066**
Yaesh, I. *see* **Gershon, E. et al., 2005b:93057** *and* **2005f:93047**
Yang, Rui-Cheng (*with* Liu, Kun Hui; Xia, Bing) Optimal impulse and regular control strategies for proportional reinsurance problem. (English summary) **2005k:93246**
Yang, Zili A pseudo "folk" theorem in the strategic provision of stock externalities. (English summary) **2005a:91093**
de Zeeuw, Aart *see* **Groot, Fons et al., 2005b:91181**

Items listed otherwise than by author

Adelaide ★ Advances in dynamic games. **2005g:91009**
Advances in dynamic games ★ Advances in dynamic games. **2005g:91009**
Game theory and applications. Vol. X ★ Game theory and applications. Vol. X. **2005j:91002**

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Abramyants, T. G. (*with* Maslov, E. P.) A differential game of pursuit of a group target. (Russian. Russian summary) **2005h:91042**
Boros, Endre (*with* Gurvich, Vladimir) On Nash-solvability in pure stationary strategies of finite games with perfect information which may have cycles. (English summary) **2005d:91021**
Broucke, Mireille E. *see* **Marshall, Joshua A. et al., 2005f:91034**
Brykalov, S. A. A conflict control system with nonfixed terminal moment. (English summary) **2005b:91047**
— Continuous single-valued strategies in evasion problems. (Russian. Russian summary) **2005k:91066**
Chentsov, A. G. A method of programmed iterations for solving an abstract confinement problem. (Russian. Russian summary) **2005d:91022**
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— (*with* Matichin, I. I.) Linear differential games with impulse control of the evader. (Russian. English summary) **2005m:91037**
— *see also* **Ignatenko, A. P., 2005h:91044** *and* **2005h:91045**
Chumanova, A. V. *see* **Petrov, Nikolaĭ Nikolaevich, 2005g:91050**
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Francis, Bruce A. *see* **Marshall, Joshua A. et al., 2005f:91034**
Glizer, Valery Y. *see* **Turetskiĭ, Vladimir Ya., 2005m:91039**
Golovach, Petr A. (*with* Petrov, Nikolaĭ Nikolaevich; Fomin, Fedor V.) Search in graphs. (English summary) **2005g:91049**
Grigor′eva, S. V. (*with* Pakhotinskikh, V. Yu.; Uspenskiĭ, A. A.; Ushakov, Vladimir N.) Construction of solutions in some differential games with phase constraints. (Russian. Russian summary) **2005m:91038**
Gurvich, Vladimir *see* **Boros, Endre, 2005d:91021**
Hohzaki, Ryusuke (*with* Washburn, Alan R.) An approximation for a continuous datum search game with energy constraint. (English summary) **2005d:91023**
Ignatenko, A. P. (*with* Chikrii, Arkadii A.) The method of proportional navigation in the simple pursuit problem. (Russian. English summary) **2005h:91044**
— (*with* Chikrii, Arkadii A.) On the justification of the method of proportional navigation in the simple pursuit problem. (Russian. English, Russian and Ukrainian summaries) **2005h:91045**
— (*with* Chikrii, Arkadii A.) The method of proportional navigation in a certain pursuit problem. (Russian. English, Russian and Ukrainian summaries)
Marshall, Joshua A. (*with* Broucke, Mireille E.; Francis, Bruce A.) Formations of vehicles in cyclic pursuit. (English summary) **2005f:91034**
Maslov, E. P. *see* **Abramyants, T. G., 2005h:91042**
Matichin, I. I. *see* **Chikrii, Arkadii A., 2005h:91043** *and* **2005m:91037**
Melikyan, A. A. Some properties of the Bellman-Isaacs equation for the games on surfaces of revolution. (English summary) **2005d:91024**
— Primary strategies of simple pursuit in differential games on two-sided plane figures. (Russian. Russian summary) **2005h:91046**
Pakhotinskikh, V. Yu. *see* **Grigor′eva, S. V. et al., 2005m:91038**
Petrov, Nikolaĭ Nikandrovich *see* **Vagin, D. A., 2005k:91067**
Petrov, Nikolaĭ Nikolaevich (*with* Chumanova, A. V.) On certain search problems with counteraction. (English summary) **2005g:91050**
— *see also* **Golovach, Petr A. et al., 2005g:91049**
Shevchenko, Ivan I. Minimizing the distance to one evader while chasing another. (English summary) **2005d:91025**
Shorikov, A. F. A nonlinear problem of adaptive minimax control for the pursuit-evasion process in a discrete dynamical system with several pursuers. (Russian. Russian summary) **2005b:91048**
Turetskiĭ, Vladimir Ya. (*with* Glizer, Valery Y.) Continuous feedback control strategy with maximal capture zone in a class of pursuit games. (English summary) **2005m:91039**
Ushakov, Vladimir N. *see* **Grigor′eva, S. V. et al., 2005m:91038**
Uspenskiĭ, A. A. *see* **Grigor′eva, S. V. et al., 2005m:91038**
Vagin, D. A. (*with* Petrov, Nikolaĭ Nikandrovich) Pursuit of a group of evaders in the Pontryagin example. (Russian. Russian summary) **2005k:91067**
Washburn, Alan R. *see* **Hohzaki, Ryusuke, 2005d:91023**
Yaroshevskiĭ, V. A. On the solution of a model game-theoretic problem of a long-distance air fight taking delay into account in versions of "noisy" and "silent" duels. (Russian. Russian summary) **2005k:91068**
Yeung, David W. K. *see* **Yu, Wei**
Yu, Wei (*with* Yeung, David W. K.) Stochastic pursuit problems with different geometric shapes of reachable sets. (English and Chinese summaries)

Items with secondary classifications in 91A24

Adler, Micah (*with* Räcke, Harald; Sivadasan, Naveen; Sohler, Christian; Vöcking, Berthold) Randomized pursuit-evasion in graphs. (English summary) (*see* **2005a:68008**)
Akbari, S. *see* **Ghasemi, R. et al.**
Broucke, Mireille E. *see* **Marshall, Joshua A. et al., 2005h:93111**
Chukwu, E. N. Cooperation and competition in modeling the dynamics of gross-domestic products of nations. (English summary)
Chwa, Kyung-Yong *see* **Park, Sang-Min et al., (2005a:68007)**
Deo, Narsingh (*with* Nikoloski, Zoran) The game of cops and robbers on graphs: a model for quarantining cyber attacks. (English summary) **2005a:68046**
Fernández-Sáez, M. J. *see* **Zoroa Alonso, Noemíet al., 2005g:90066**
Francis, Bruce A. *see* **Marshall, Joshua A. et al., 2005h:93111**
Gabasov, R. (*with* Kirillova, F. M.; Pesetskaya, T. I.) Synthesis of optimal feedback from nondeterministic models and inexact measurements of the states of control systems. (Russian. Russian summary) **2005a:49069**
Ghasemi, R. (*with* Nikravesh, S. K. Y.; Menhaj, M. B.; Akbari, S.) A near optimal fuzzy modeling of pursuit-evasion in an air combat. (English summary)
Gimbert, Hugo (*with* Zielonka, Wiesław) When can you play positionally? (English

summary) **2005m:03077**
Ignatenko, A. P. Solution of a class of problems of the interaction of groups of controlled objects on a plane. (Russian. Russian summary) **2005d:91019**
Kapilevich, V. O. (*with* Petrov, Nikolaĭ Nikolaevich) Search problems in graphs with counteraction. (English summary) **2005f:90058**
Kirillova, F. M. *see* **Gabasov, R. et al., 2005a:49069**
Lee, Jae-Ha *see* **Park, Sang-Min et al., (2005a:68007)**
Lin, Zhi Yun *see* **Marshall, Joshua A. et al., 2005h:93111**
Mamedov, M. B. Investigation of unimprovable equilibrium situations in nonlinear conflict-controlled dynamical systems. (Russian. Russian summary) **2005a:91019**
Marshall, Joshua A. (*with* Lin, Zhi Yun; Broucke, Mireille E.; Francis, Bruce A.) Pursuit strategies for autonomous agents. (English summary) **2005h:93111**
(Mazalov, Vladimir V.) *see* **Game theory and applications. Vol. X, 2005j:91002**
Menhaj, M. B. *see* **Ghasemi, R. et al.**
Merhav, Neri *see* **Somekh-Baruch, Anelia, 2005e:94064**
Miele, Angelo (*with* Wang, Tong[2]) New approach to the collision avoidance problem for a ship. (English summary)
Mıhçak, M. Kıvanç *see* **Moulin, Pierre, 2005m:94016**
Moulin, Pierre (*with* Mıhçak, M. Kıvanç) The parallel-Gaussian watermarking game. (English summary) **2005m:94016**
Nikoloski, Zoran *see* **Deo, Narsingh, 2005a:68046**
Nikravesh, S. K. Y. *see* **Ghasemi, R. et al.**
(Nowak, Andrzej S.) *see* **Advances in dynamic games, 2005g:91009**
Pankratova, Yaroslavna (*with* Tarashnina, Svetlana) How many people can be controlled in a group pursuit game. (English summary) **2005h:91040**
Park, Sang-Min (*with* Lee, Jae-Ha; Chwa, Kyung-Yong) Visibility-based pursuit-evasion in a polygonal region by a searcher. (English summary) (*see* **2005a:68007**)
Pesetskaya, T. I. *see* **Gabasov, R. et al., 2005a:49069**
(Petrosyan, Leon A.) *see* **Game theory and applications. Vol. X, 2005j:91002**
Petrov, Nikolaĭ Nikandrovich "Soft" capture in an example of L. S. Pontryagin with several participants. (Russian. Russian summary) **2005g:49067**
Petrov, Nikolaĭ Nikolaevich *see* **Kapilevich, V. O., 2005f:90058**
Räcke, Harald *see* **Adler, Micah et al., (2005a:68008)**
Shankaran, Sriram *see* **Stipanović, Dušan M. et al., 2005k:93121**
Shorikov, A. F. An algorithm of adaptive minimax control for the pursuit-evasion process in discrete-time dynamical systems. (English summary) **2005a:49052**
Sivadasan, Naveen *see* **Adler, Micah et al., (2005a:68008)**
Sohler, Christian *see* **Adler, Micah et al., (2005a:68008)**
Somekh-Baruch, Anelia (*with* Merhav, Neri) On the capacity game of public watermarking systems. (English summary) **2005e:94064**
Stipanović, Dušan M. (*with* Shankaran, Sriram; Tomlin, Claire J.) Multi-agent avoidance control using an M-matrix property. (English summary) **2005k:93121**
Stukalov, A. S. *see* **Vasil'ev, F. P., 2005k:49108**
(Szajowski, Krzysztof) *see* **Advances in dynamic games, 2005g:91009**
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Tomlin, Claire J. *see* **Stipanović, Dušan M. et al., 2005k:93121**
Turetskiĭ, Vladimir Ya. Upper bounds of the pursuer control based on a linear-quadratic differential game. (English summary) **2005b:49070**
Ushakov, Vladimir N. (*with* Uspenskiĭ, A. A.; Tokmantsev, T. B.) Stable bridges in differential games in a finite time interval. (English summary) **2005i:91028**
Uspenskiĭ, A. A. *see* **Ushakov, Vladimir N. et al., 2005i:91028**
Vasil'ev, F. P. (*with* Stukalov, A. S.) Conditions for the approximation of equilibrium problems from the value of a functional. (Russian. Russian summary) **2005k:49108**
Vöcking, Berthold *see* **Adler, Micah et al., (2005a:68008)**
Wang, Tong[2] *see* **Miele, Angelo**
Zielonka, Wiesław *see* **Gimbert, Hugo, 2005m:03077**
Zoroa Alonso, Noemí (*with* Fernández-Sáez, M. J.; Zoroa Terol, Procopio) Search and ambush games with capacities. (English summary) **2005g:90066**
Zoroa Terol, Procopio *see* **Zoroa Alonso, Noemíet al., 2005g:90066**

Items listed otherwise than by author

Adelaide ★ Advances in dynamic games. **2005g:91009**
Advances in dynamic games ★ Advances in dynamic games. **2005g:91009**
Game theory and applications. Vol. X ★ Game theory and applications. Vol. X. **2005j:91002**

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Aidt, Toke S. (*with* Dutta, Jayasri) Strategic consensus. (English summary) **2005d:91026**
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Dement'eva, M. B. (*with* Neittaanmäki, Pekka; Zakharov, Viktor) Time-consistency and the problem of minimal reduction. **2005m:91040**
Dockner, Engelbert J. (*with* Nishimura, Kazuo) Strategic growth. (English summary) **2005a:91023**
Dutta, Jayasri *see* **Aidt, Toke S., 2005d:91026**
Einav, Liran *see* **Quint, Daniel, 2005m:91041**
Fukuda, Emiko (*with* Muto, Shigeo) Dynamic coalition formation in the apex game. (English summary) **2005g:91051**
Garcia, Alfredo Forecast horizons for a class of dynamic games. (English summary) **2005f:91035**
Hart, Sergiu (*with* Mas-Colell, Andreu) Regret-based continuous-time dynamics. (English summary) **2005a:91024**
Hirotsu, Nobuyoshi (*with* Wright, Michael Bruce) Modelling a baseball game to optimise pitcher substitution strategies incorporating handedness of players. (English summary) **2005k:91069**
Jones, Matt (*with* Zhang, Jun[6]) Rationality and bounded information in repeated games, with application to the iterated prisoner's dilemma. (English summary) **2005g:91052**
Krabs, Werner (*with* Pickl, Stefan Wolfgang) A game-theoretic treatment of a time-discrete emission reduction model. (English summary) **2005c:91027**
Mamkina, Svetlana I. *see* **Petrosyan, Leon A.**
Mas-Colell, Andreu *see* **Hart, Sergiu, 2005a:91024**
Muto, Shigeo *see* **Fukuda, Emiko, 2005g:91051**
Neck, Reinhard (*with* Behrens, Doris) Macroeconomic policies in a monetary union: a dynamic game. (English summary)
Neittaanmäki, Pekka *see* **Dement'eva, M. B. et al., 2005m:91040**
Nishimura, Kazuo *see* **Dockner, Engelbert J., 2005a:91023**
Nonaka, Yasuo Complexity leads to benefits: Pareto-improving chaos in a heterogeneous duopoly market. (English summary) **2005k:91070**
Petrosyan, Leon A. (*with* Mamkina, Svetlana I.) Dynamic games with coalitional structures. (English and Chinese summaries)
Pickl, Stefan Wolfgang *see* **Krabs, Werner, 2005c:91027**
Quint, Daniel (*with* Einav, Liran) Efficient entry. (English summary) **2005m:91041**
Solan, Eilon (*with* Vieille, Nicolas) Deterministic multi-player Dynkin games. (English summary) **2005d:91027**
Ukhobotov, V. I. A stable property of a programmed absorption operator in games with simple motion and a convex target in spaces with an incomplete linear structure. (Russian. Russian summary) **2005b:91049**
Vieille, Nicolas *see* **Solan, Eilon, 2005d:91027**
Wiszniewska-Matyszkiel, Agnieszka A dynamic game with continuum of players and its counterpart with finitely many players. (English summary) (*see* **2005g:91009**)
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Items with secondary classifications in 91A25

Agliari, Anna (*with* Gardini, Laura; Puu, Tönu) Some global bifurcations related to the appearance of closed invariant curves. (English summary) **2005m:37217**
Ahmed, Elsayed Mohamed (*with* Hegazi, A. S.; Elgazzar, A. S.) On some variants of prisoner's dilemma dynamics. (English summary) **2005k:91060**
Almeida, J. (*with* Peralta-Salas, D.; Romera, Miguel) Can two chaotic systems give rise to order? (English summary) **2005g:37172**
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Aubin, Jean-Pierre Evolution of complex economic systems and uncertain information. **2005b:91160**
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Başar, Tamer *see* **Alpcan, Tansu, 2005h:90014**
Beggs, A. W. On the convergence of reinforcement learning. (English summary) **2005k:91010**
Chen, Hong[3] (*with* Wan, Yat-wah) Capacity competition of make-to-order firms. (English summary) **2005h:91054**
Chiarella, Carl (*with* Szidarovszky, Ferenc) Bertrand oligopoly with incomplete information. (English summary) **2005k:91075**
Cressman, Ross (*with* Garay, József; Scarelli, Antonino; Varga, Zoltán) The dynamic stability of coalitionist behaviour for two-strategy bimatrix games. (English summary) **2005g:91042**
Dement'eva, M. B. *see* **Zakharov, Viktor, 2005g:91040**
Domanskiĭ, V. K. Dynkin's games with randomized optimal stopping rules. (English summary) **2005h:60121**
Durieu, Jacques *see* **Baron, Richard et al., 2005a:91014**
Elgazzar, A. S. *see* **Ahmed, Elsayed Mohamed et al., 2005k:91060**
Figuières, Charles (*with* Jean-Marie, Alain; Quérou, Nicolas; Tidball, Mabel) ★ Theory of conjectural variations. **2005e:91002**
Garay, József *see* **Cressman, Ross et al., 2005g:91042**
Gardini, Laura *see* **Agliari, Anna et al., 2005m:37217**
Golubtsov, P. V. (*with* Lyubetskiĭ, V. A.) Stochastic dynamic games with information of various types. (Russian. Russian summary) **2005e:91023**
Gyurkovics, É. (*with* Takács, T.) Guaranteeing cost strategies for infinite horizon difference games with uncertain dynamics. (English summary) **2005m:91047**
Haller, Hans *see* **Baron, Richard et al., 2005a:91014**
Hegazi, A. S. *see* **Ahmed, Elsayed Mohamed et al., 2005k:91060**
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Hoppe, Heidrun C. (*with* Lehmann-Grube, Ulrich) Innovation timing games: a general framework with applications. (English summary) **2005j:91019**
Hörner, Johannes A perpetual race to stay ahead. (English summary) **2005e:91008**
Jean-Marie, Alain *see* **Figuières, Charles et al., 2005e:91002**
Kalnishkan, Yu. A. (*with* Vyugin, Mikhail V.) On the absence of predictive complexity for some games. (English summary) (*see* **2005a:68003**)
Kim, Ki Baek Disturbance attenuation for constrained discrete-time systems via receding horizon controls. (English summary) **2005a:93057**
Kopel, Michael (*with* Szidarovszky, Ferenc; Yousefi, Shahriar) Introduction [Special issue on dynamic oligopolies].
Kranich, Laurence (*with* Perea y Monsuwé, Andrés; Peters, Hans) Core concepts for dynamic TU games. (English summary) **2005k:91032**
Kurano, Masami *see* **Yoshida, Yuji et al., (2005g:91009)**
Lai, Hang-Chin On a dynamic fractional game. (English summary) **2005a:91002**
Lee, Jihong[2] Precedents and timing: a strategic analysis of multi-plaintiff litigation. (English summary) **2005h:91049**
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Li, Shao Yuan[2] (*with* Zhang, Yan[11]; Zhu, Quanmin) Nash-optimization enhanced distributed model predictive control applied to the Shell benchmark problem. (English summary) **2005h:93064**
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(Mazalov, Vladimir V.) *see* **Game theory and applications. Vol. X, 2005j:91002**
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(Nowak, Andrzej S.) *see* **Advances in dynamic games, 2005g:91009**

Obiols-Homs, Francesc (*with* Urrutia, Carlos) Transitional dynamics and the distribution of assets. (English summary) **2005h:91163**
Peralta-Salas, D. *see* **Almeida, J. et al., 2005g:37172**
Perea y Monsuwé, Andrés *see* **Kranich, Laurence et al., 2005k:91032**
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Scarelli, Antonino *see* **Cressman, Ross et al., 2005g:91042**
Shamma, Jeff S. (*with* Arslan, Gürdal) Unified convergence proofs of continuous-time fictitious play. (English summary) **2005g:91025**
— (*with* Arslan, Gürdal) Dynamic fictitious play, dynamic gradient play, and distributed convergence to Nash equilibria. (English summary) **2005i:91012**
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Solal, Philippe *see* **Baron, Richard et al., 2005a:91014**
Solan, Eilon (*with* Vieille, Nicolas) Stopping games—recent results. (English summary) (*see* **2005g:91009**)
— *see also* **Shmaya, Eran, 2005g:60026**
(Szajowski, Krzysztof) *see* **Advances in dynamic games, 2005g:91009**
Szidarovszky, Ferenc (*with* Westberry-Kutz, Teri) The asymptotic behavior of producer-consumer markets. (English summary) **2005c:91098**
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Takács, T. *see* **Gyurkovics, É., 2005m:91047**
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Yasuda, Masami *see* **Yoshida, Yuji et al., (2005g:91009)**
Yoshida, Yuji (*with* Yasuda, Masami; Kurano, Masami; Nakagami, Jun-ichi) Stopping game problem for dynamic fuzzy systems. (English summary) (*see* **2005g:91009**)
Yousefi, Shahriar *see* **Kopel, Michael et al.**
Zakharov, Viktor (*with* Dement'eva, M. B.) Consistency of subcore and problem of minimal reduction. (English summary) **2005g:91040**
Zhang, Yan[11] *see* **Li, Shao Yuan[2] et al., 2005h:93064**
Zhu, Quanmin *see* **Li, Shao Yuan[2] et al., 2005h:93064**

Items listed otherwise than by author

Adelaide ★ Advances in dynamic games. **2005g:91009**
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Echenique, Federico (*with* Edlin, Aaron) Mixed equilibria are unstable in games of strategic complements. (English summary) **2005e:91034**
Edlin, Aaron *see* **Echenique, Federico, 2005e:91034**
Herings, P. Jean-Jacques (*with* Mauleon, Ana; Vannetelbosch, Vincent J.) Rationalizability for social environments. (English summary) **2005c:91028**
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Lux, Thomas (*with* Schornstein, Sascha) Genetic learning as an explanation of stylized facts of foreign exchange markets. (English summary)
Manski, Charles F. Social learning from private experiences: the dynamics of the selection problem. (English summary) **2005g:91054**
Mauleon, Ana *see* **Herings, P. Jean-Jacques et al., 2005c:91028**
Nechitaĭlov, Yu. V. Parallel composition in the dynamic logic of games with restricted rationality. (Russian. English summary) (*see* **2005f:03002**)
Odelstad, Jan (*with* Boman, Magnus) Algebras for agent norm-regulation. (English summary) **2005i:91029**
Reynolds, Stanley S. *see* **Cason, Timothy N., 2005k:91071**
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Sarin, Rajiv *see* **Huck, Steffen, 2005h:91047**
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Sun, Hong Gang (*with* Liu, Ya Xiang; Wang, Li Bo) Rate of satisfactory payoff: new thinking of rationality hypothesis in game theory. (Chinese. English and Chinese summaries)
Vannetelbosch, Vincent J. *see* **Herings, P. Jean-Jacques et al., 2005c:91028**
Vriend, Nicolaas J. 'From exchange it comes to tears'. A Dutch 'folk theorem' reconsidered. (English summary)
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Whitta-Jacobsen, Hans Jørgen *see* **Jensen, Mogens et al., 2005g:91053**
Zambrano, Eduardo Counterfactual reasoning and common knowledge of rationality in normal form games. (English summary) **2005i:91030**

Items with secondary classifications in 91A26

Beggs, A. W. On the convergence of reinforcement learning. (English summary) **2005k:91010**
Benaïm, Michel (*with* Ben Arous, Gérard) A two armed bandit type problem. **2005h:91009**
Ben Arous, Gérard *see* **Benaïm, Michel, 2005h:91009**
Berger, Ulrich Fictitious play in $2 \times n$ games. (English summary) **2005m:91008**
Bischi, Gian-Italo (*with* Chiarella, Carl; Kopel, Michael) The long run outcomes and global dynamics of a duopoly game with misspecified demand functions. (English summary) **2005e:91040**
Bowling, Michael (*with* Veloso, Manuela) Existence of multiagent equilibria with limited agents. (English summary) **2005k:91044**
Brafman, Ronen I. (*with* Tennenholtz, Moshe) Learning to coordinate efficiently: a model-based approach. (English summary) **2005h:68129**
Cafagna, Vittorio (*with* Coccorese, Paolo) Dynamical systems and the arising of cooperation in a Cournot duopoly. (English summary) **2005k:91053**
Chatterjee, Kalyan (*with* Xu, Susan H.) Technology diffusion by learning from neighbours. (English summary) **2005d:91016**
Chatterji, Shurojit Subjective temporary equilibrium. (English summary) **2005b:91162**
Chiarella, Carl *see* **Bischi, Gian-Italo et al., 2005e:91040**
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Décamps, Jean-Paul (*with* Mariotti, Thomas) Investment timing and learning externalities. (English summary) **2005e:91073**
Dueker, Michael Dynamic forecasts of qualitative variables: a Qual VAR model of U.S. recessions. (English summary)
Duffy, John (*with* Hopkins, Ed) Learning, information, and sorting in market entry games: theory and evidence. (English summary) **2005k:91014**
Evans, George William, III (*with* McGough, Bruce) Stable sunspot solutions in models with predetermined variables. (English summary) **2005k:91205**
Fiaschi, Davide (*with* Pacini, Pier Mario) Coalition formation with boundedly rational agents. (English summary) **2005m:91020**
Freund, Michael[2] Revising preferences and choices. (English summary) **2005m:03034**
Glazer, Jacob (*with* Rubinstein, Ariel) On optimal rules of persuasion. (English summary) **2005e:91036**
Goyal, Sanjeev (*with* Vega-Redondo, Fernando) Network formation and social coordination. (English summary) **2005g:91030**
Hens, Thorsten (*with* Reimann, Stefan; Vogt, Bodo) Nash competitive equilibria and two-period fund separation. (English summary) **2005b:91018**
Herings, P. Jean-Jacques (*with* Mauleon, Ana; Vannetelbosch, Vincent J.) Fuzzy play, matching devices and coordination failures. (English summary) **2005i:91010**
Hild, Matthias A note on impossibility theorems and seniority rules. (English summary) **2005h:91064**
Hogarth, Robin M. (*with* Karelaia, Natalia) Ignoring information in binary choice with continuous variables: when is less "more"? (English summary) **2005m:91054**
Honkapohja, Seppo (*with* Mitra, Kaushik) Performance of monetary policy with internal central bank forecasting. (English summary) **2005k:91231**
Hopkins, Ed *see* **Duffy, John, 2005k:91014**
Hu, Junling (*with* Wellman, Michael P.) Nash Q-learning for general-sum stochastic games. (English summary) **2005m:68180**
Jones, Matt (*with* Zhang, Jun[6]) Rationality and bounded information in repeated games, with application to the iterated prisoner's dilemma. (English summary) **2005g:91052**
Ju, Biung-Ghi Strategy-proof risk sharing. (English summary) **2005j:91025**
Karelaia, Natalia *see* **Hogarth, Robin M., 2005m:91054**
Kirman, Alan P. (*with* Tuinstra, Jan) Introduction [Special Issue: Bounded rationality, heterogeneity and market dynamics].
Kopel, Michael *see* **Bischi, Gian-Italo et al., 2005e:91040**
Kuzmics, Christoph Stochastic evolutionary stability in extensive form games of perfect information. (English summary) **2005f:91029**
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Meier, Martin On the nonexistence of universal information structures. (English summary) **2005k:91019**
Mertens, Jean-François Ordinality in non cooperative games. (English summary) **2005c:91013**
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Ockenfels, Axel (*with* Selten, Reinhard) Impulse balance equilibrium and feedback in first price auctions. (English summary) **2005i:91054**
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Salmon, Timothy C. Evidence for learning to learn behavior in normal form games. (English summary) **2005g:91065**
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Kim, Jeong-Yoo Signal jamming in games with multiple senders. (English summary) **2005i:91032**
Krishna, Vijay (*with* Morgan, Roy John) The art of conversation: eliciting information from experts through multi-stage communication. (English summary)
Luo, Qiu Lan (*with* Chen, You Lu) Strategy of optimal proportions invested in the superior asset. (Chinese. English and Chinese summaries)
Morgan, Roy John *see* **Krishna, Vijay**
Olszewski, Wojciech Informal communication. (English summary) **2005b:91050**
Sakakibara, Hiroyuki Model analysis of communication scheme in participatory planning game as an institutionalized conflict. (English summary) **2005k:91072**
Vahey, Shaun P. Signalling ability to pay and rent sharing dynamics. (English summary) **2005b:91051**

Items with secondary classifications in 91A28

de Alfaro, Luca (*with* Faella, Marco) Information flow in concurrent games. (English summary) **2005c:68194**
Algaba, E. (*with* Bilbao, J. M.; López Vázquez, Jorge J.) The position value in communication structures. (English summary) **2005m:91015**
Belleflamme, Paul (*with* Bloch, Francis) Market sharing agreements and collusive networks. (English summary) **2005a:91041**
Bilbao, J. M. *see* **Algaba, E. et al., 2005m:91015**
Bloch, Francis *see* **Belleflamme, Paul, 2005a:91041**
Décamps, Jean-Paul (*with* Mariotti, Thomas) Investment timing and learning externalities. (English summary) **2005e:91073**
Dimitri, Nicola Efficiency and equilibrium in the electronic mail game; the general case. (English summary) **2005b:91017**
Eichberger, Jürgen (*with* Kelsey, David) Sequential two-player games with ambiguity. (English summary) **2005g:91011**
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Gersbach, Hans The money-burning refinement: with an application to a political signalling game. (English summary) **2005g:91021**
Goldman, Claudia V. (*with* Zilberstein, Shlomo) Decentralized control of cooperative systems: categorization and complexity analysis. (English summary) **2005j:93007**
Haeringer, Guillaume On the stability of cooperation structures. (English summary) **2005a:91007**
Heifetz, Aviad (*with* Segev, Ella) Escalation and delay in protracted international conflicts. (English summary) **2005g:91085**
Heinemann, Frank (*with* Nagel, Rosemarie; Ockenfels, Peter) The theory of global games on test: experimental analysis of coordination games with public and private information. (English summary) **2005b:91058**
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King, John T. A sequential signaling model of the sale of an invention to an oligopolist. (English summary) **2005h:91084**
López Vázquez, Jorge J. *see* **Algaba, E. et al., 2005m:91015**
Mariotti, Thomas *see* **Décamps, Jean-Paul, 2005e:91073**
McLean, Richard P. (*with* Postlewaite, Andrew) Informational size and efficient auctions. (English summary) **2005a:91046**
Meirowitz, Adam Polling games and information revelation in the Downsian framework. (English summary) **2005m:91010**
Mezzetti, Claudio Mechanism design with interdependent valuations: efficiency. (English summary) **2005c:91048**
Mookherjee, Dilip (*with* Tsumagari, Masatoshi) The organization of supplier networks: effects of delegation and intermediation. (English summary) **2005a:91047**
Nagel, Rosemarie *see* **Heinemann, Frank et al., 2005b:91058**
Ockenfels, Peter *see* **Heinemann, Frank et al., 2005b:91058**
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Renault, Jérôme (*with* Tomala, Tristan) Communication equilibrium payoffs in repeated games with imperfect monitoring. (English summary) **2005e:91013**
van Rooy, Robert Evolution of conventional meaning and conversational principles. (English summary) **2005a:03061**
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Zeng, Weidong Two-limit tobit-autoregression-GARCH with estimates of the model of stock daily return rate with price limits. (English and Chinese summaries)
Zilberstein, Shlomo *see* **Goldman, Claudia V., 2005j:93007**
Zollman, Kevin J. S. Talking to neighbors: the evolution of regional meaning. (English summary)

91A30 Utility theory for games [see also 91B16]

Hussain, Khaled (*with* Kaptan, Varol) Modeling and simulation with augmented reality. (English summary)
Kaptan, Varol *see* **Hussain, Khaled**

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Cârsteanu, Alin *see* **Clempner, Julio et al., 2005k:91013**
Clempner, Julio (*with* Medel, Jesus; Cârsteanu, Alin) Extending games with local and robust Lyapunov equilibrium and stability condition. (English summary) **2005k:91013**
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Li, Hong Xing *see* **Liu, Puyin**
Liu, Puyin (*with* Li, Hong Xing) Hierarchical TS fuzzy system and its universal approximation. (English summary)
Medel, Jesus *see* **Clempner, Julio et al., 2005k:91013**
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Bassan, Bruno (*with* Gossner, Olivier; Scarsini, Marco; Zamir, Shmuel) Positive value of information in games. (English summary) **2005c:91029**
Baston, Vic J. (*with* Kikuta, Kensaku) An ambush game with an unknown number of infiltrators. (English summary) **2005b:91052**
Calvó-Armengol, Antoni (*with* Zenou, Yves) Social networks and crime decisions: the role of social structure in facilitating delinquent behavior. (English summary) **2005e:91035**
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Clempner, Julio Optimizing the decision process on Petri nets via a Lyapunov-like function. (English summary)
Crawford, Gregory S. (*with* Shum, Matthew) Uncertainty and learning in pharmaceutical demand. (English summary) **2005m:91042**
Delgrande, James P. *see* **Schulte, Oliver, 2005k:91074**
Enns, E. G. Optimal sequential decisions with information invariance. (English summary)
Glazer, Jacob (*with* Rubinstein, Ariel) On optimal rules of persuasion. (English summary) **2005e:91036**
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Huang, Tian-min *see* **Qing, Ming et al.**
Ikeda, Yuichi (*with* Kubo, Osamu; Kobayashi, Yasuhiro[3]) Forecast of business performance using an agent-based model and its application to a decision tree Monte Carlo business valuation. (English summary) **2005g:91055**
(Kajii, Atsushi) *see* **Rothschild, Casey G., 2005k:91073**
Kikuta, Kensaku *see* **Baston, Vic J., 2005b:91052**
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Kubo, Osamu *see* **Ikeda, Yuichi et al., 2005g:91055**
Lu, Gui Hua[2] Information cost, rule of game and relative efficiency: implications for the choice of operating institutional arrangements of state-owned enterprises. (Chinese. English and Chinese summaries)
Mariotti, Thomas (*with* Meier, Martin; Piccione, Michele) Hierarchies of beliefs for compact possibility models. (English summary) **2005i:91033**
Meier, Martin *see* **Mariotti, Thomas et al., 2005i:91033**
(Morris, Stephen E.) *see* **Rothschild, Casey G., 2005k:91073**
Piccione, Michele *see* **Mariotti, Thomas et al., 2005i:91033**
Qing, Ming (*with* Cao, Yue; Huang, Tian-min) Fuzzy entropy: axiomatic definition and neural networks model. (English summary)
Redmond, Charles A natural generalization of the win-loss rating system.
Rothschild, Casey G. Comment: "Payoff continuity in incomplete information games" [J. Econom. Theory **82** (1998), no. 1, 267–276; MR1658694 (99k:90230)] by A. Kajii and S. Morris. (English summary) **2005k:91073**
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Asheim, Geir B. (*with* Søvik, Ylva) Preference-based belief operators. (English summary) **2005k:91085**
Bassan, Bruno (*with* Scarsini, Marco; Zamir, Shmuel) Some interactive decision problems emerging in statistical games. (English summary) **2005a:62028**
Berman, David R. (*with* McLaurin, Sandra C.; Smith, Douglas D.) Ranking whist players. (English summary) **2005a:05048**
Bonanno, Giacomo Memory of past beliefs and actions. (English summary) **2005b:03038**
Brams, Steven J. (*with* Edelman, Paul H.; Fishburn, Peter C.) Fair division of indivisible items. (English summary) **2005b:90057**
Canfora, G. (*with* Troiano, L.) A model for opinion agreement and confidence in multi-expert multi-criteria decision making. (English summary) **2005k:90056**
Carreras, Francesc α-decisiveness in simple games. (English summary) **2005g:91028**
— A decisiveness index for simple games. (English summary) **2005h:91019**
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Eichberger, Jürgen (*with* Kelsey, David) Sequential two-player games with ambiguity. (English summary) **2005g:91011**
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Grünwald, Peter D. (*with* Dawid, A. Philip) Game theory, maximum entropy, minimum discrepancy and robust Bayesian decision theory. (English summary) **2005g:62019**
Hitchcock, Christopher Beauty and the bets. (English summary) **2005a:03037**

Holler, Manfred J. (*with* Napel, Stefan) Monotonicity of power and power measures. (English summary) **2005g:91032**
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Langtry, Bruce The classical and maximin versions of the two-envelope paradox. (English summary) **2005f:03005**
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Marichal, Jean Luc Tolerant or intolerant character of interacting criteria in aggregation by the Choquet integral. (English summary) **2005b:28003**
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Napel, Stefan *see* **Holler, Manfred J.**, **2005g:91032**
Peldschus, Friedel (*with* Zavadskas, Edmundas Kazimieras) Fuzzy matrix games multicriteria model for decision-making in engineering. (English and Lithuanian summaries)
Perny, Patrice (*with* Spanjaard, Olivier) A preference-based approach to spanning trees and shortest paths problems. (English summary) **2005h:90111**
Scarsini, Marco *see* **Bassan, Bruno et al.**, **2005a:62028**
Schick, Frederic A dilemma for whom?
Schummer, James Almost-dominant strategy implementation: exchange economies. (English summary) **2005d:91076**
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Tapking, Jens Cost information sharing with uncertainty averse firms. (English summary) **2005b:91083**
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Tohmé, Fernando A. Existence and definability of states of the world. (English summary) **2005i:03020**
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Weirich, Paul ★ Realistic decision theory. **2005h:91002**
Yu, Hong-Fwu (*with* Tien, Tsu-Wu) A probabilistic approach to multiple attribute decision making with fuzzy preference information on alternatives. (English summary)
Zamir, Shmuel *see* **Bassan, Bruno et al.**, **2005a:62028**
Zavadskas, Edmundas Kazimieras *see* **Peldschus, Friedel**
Zhukovskaya, L. V. (*with* Mikrin, E. A.) A new approach to the estimation of the effectiveness of control decisions under risk conditions in automatic control systems. (Russian. Russian summary) **2005d:90061**

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Chiarella, Carl (*with* Szidarovszky, Ferenc) Bertrand oligopoly with incomplete information. (English summary) **2005k:91075**
Forgó, Ferenc (*with* Fülöp, János; Prill, Mária) Game theoretic models for climate change negotiations. (English summary)
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Koch, Andreas (*with* Tvede, Mich) A model of sex-based social stability. (English summary)
Lee, Jihong[2] Precedents and timing: a strategic analysis of multi-plaintiff litigation. (English summary) **2005h:91049**
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Altman, Eitan Applications of dynamic games in queues. (English summary) **2005h:90023**
— *see also* **Boulogne, Thomas**, **2005m:90016**
Benoit, Jean-Pierre[1] (*with* Dubra, Juan) Why do good cops defend bad cops? (English summary)
van Benthem, Johan Logic games are complete for game logics. (English summary) **2005a:03040**
Biktashev, Vadim N. *see* **Tsyganov, M. A.**, **2005j:92026**
Bjørndal, Endre (*with* Koster, Maurice; Tijs, S. H.) Weighted allocation rules for standard fixed tree games. (English summary) **2005e:91037**
Bonanno, Giacomo Memory of past beliefs and actions. (English summary) **2005b:03038**
Boulogne, Thomas (*with* Altman, Eitan) Competitive routing in multicast communications. (English summary) **2005m:90016**
Brueckner, Sven A. *see* **Savit, Robert et al.**, **2005g:91128**
Calvó-Armengol, Antoni (*with* Zenou, Yves) Social networks and crime decisions: the role of social structure in facilitating delinquent behavior. (English summary) **2005e:91035**
Carreras, Francesc (*with* Freixas, Josep) A power analysis of linear games with consensus. (English summary) **2005b:91025**
Chambers, Christopher P. Virtual repeated implementation. (English summary) **2005a:91034**
Chen, Hong[3] (*with* Wan, Yat-wah) Capacity competition of make-to-order firms. (English summary) **2005h:91054**
Chen, M. Keith (*with* Hauser, Marc) Modeling reciprocation and cooperation in primates: evidence for a punishing strategy. (English summary)
Chen, Shu-Heng (*with* Duffy, John; Yeh, Chia-Hsuan) Equilibrium selection via adaptation: using genetic programming to model learning in a coordination game. (English summary) **2005h:68131**
DeMarzo, Peter M. (*with* Fishman, Michael J.; Hagerty, Kathleen M.) Self-regulation and government oversight. (English summary)
Di Gianantonio, Pietro *see* **Ong, C.-H. Luke**, **2005c:03023**
Driessen, Theo S. H. (*with* Meinhardt, Holger I.) Convexity of oligopoly games without transferable technologies. (English summary) **2005m:91019**
Du, Jiangfeng (*with* Ju, Chenyong; Li, Hui[5]) Quantum entanglement helps in improving economic efficiency. (English summary) **2005j:81047**
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Fomin, Fedor V. (*with* Heggernes, Pinar; Telle, Jan Arne) Graph searching, elimination trees, and a generalization of bandwidth. (English summary) **2005b:68213**
Fragnelli, Vito (*with* Iandolino, Anna) A cost allocation problem in urban solid wastes collection and disposal. (English summary)
Freixas, Josep *see* **Carreras, Francesc**, **2005b:91025**
Fujiwara, Hiroshi (*with* Iwama, Kazuo) Average-case competitive analyses for ski-rental problems. (English summary) **2005k:68245**
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Iandolino, Anna *see* **Fragnelli, Vito**
Iordanov, Iordan V. (*with* Stoyanov, Stoyan V.; Vassilev, Andrei A.) Price dynamics in a two region model with strategic interaction. (English and Bulgarian summaries) **2005g:91151**
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Levy, Gilat A model of political parties. (English summary) **2005e:91138**
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Lingens, Jörg ★ Union wage bargaining and economic growth. **2005c:91006**
Mallik, Suman (*with* Harker, Patrick T.) Coordinating supply chains with competition: capacity allocation in semiconductor manufacturing. (English summary) **2005b:90058**
Mariotti, Thomas (*with* Meier, Martin; Piccione, Michele) Hierarchies of beliefs for compact possibility models. (English summary) **2005i:91033**
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McIver, Annabelle (*with* Morgan, Carroll C.) Games, probability, and the quantitative μ-calculus $qM\mu$. (English summary) (*see* **2005c:68007**)
Meier, Martin *see* **Mariotti, Thomas et al.**, **2005i:91033**
Meinhardt, Holger I. *see* **Driessen, Theo S. H.**, **2005m:91019**
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Nikonov, O. I. A game-theoretic problem of optimizing the development of a natural gas market. (Russian. Russian summary) **2005f:91106**
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— (*with* Sładkowski, Jan) The next stage: quantum game theory. (English summary) (*see* **2005a:00002**)
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Savit, Robert (*with* Brueckner, Sven A.; Van Dyke Parunak, H.; Sauter, John) General structure of a class of resource allocation games. (English summary) **2005g:91128**
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Van Dyke Parunak, H. *see* **Savit, Robert et al.**, **2005g:91128**
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Ziegler, Alexandre ★ A game theory analysis of options. **2005c:91070**
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Adler, Micah (*with* Räcke, Harald; Sivadasan, Naveen; Sohler, Christian; Vöcking, Berthold) Randomized pursuit-evasion in graphs. (English summary) (*see* **2005a:68008**)
Billand, Pascal (*with* Bravard, Christophe) A note on the characterization of Nash networks. (English summary) **2005k:91076**
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Hausken, Kjell (*with* Cressman, Ross) Formalization of multi-level games. (English summary) **2005a:91026**
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Koster, Maurice *see* **Bjørndal, Endre et al., 2005e:91037**
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Alur, Rajeev (*with* La Torre, Salvatore; Madhusudan, P.) Playing games with boxes and diamonds. (English summary) **2005c:68162**
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Anshelevich, Elliot (*with* Dasgupta, Anirban[2]; Tardos, Éva; Wexler, Thomas B.) Near-optimal network design with selfish agents. (English summary) **2005k:68004**
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Barrière, Lali (*with* Fraigniaud, Pierre; Santoro, Nicola; Thilikos, Dimitris M.) Searching is not jumping. (English summary) (*see* **2005b:05002**)
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Björklund, Henrik (*with* Sandberg, Sven; Vorob′ev, S. G.) A discrete subexponential algorithm for parity games. (English summary) **2005c:68286**
Boros, Endre (*with* Gurvich, Vladimir) On Nash-solvability in pure stationary strategies of finite games with perfect information which may have cycles. (English summary) **2005d:91021**
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Cole, Richard (*with* Dodis, Yevgeniy; Roughgarden, Tim) Pricing network edges for heterogeneous selfish users. (English summary) **2005k:68006**
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Demaine, Erik D. *see* **Biedl, Therese et al., (2005a:05002)**
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Dulluri, Sandeep (*with* Srinivasa Raghavan, N. R.) Allocation of advertising space by a web service provider using combinatorial auctions. (English summary)
Dutta, Bhaskar (*with* Kar, Anirban) Cost monotonicity, consistency and minimum cost spanning tree games. (English summary) **2005c:91072**
Elsässer, Robert (*with* Lorenz, Ulf; Sauerwald, Thomas) Agent-based information handling in large networks. (English summary) **2005m:68015**
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Fagiolo, Giorgio Endogenous neighborhood formation in a local coordination model with negative network externalities. (English summary) **2005i:91009**
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Li, Xiang[2] (*with* Jin, Yu Ying; Chen, Guanrong) On the topology of the world exchange arrangements web. (English summary)
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— (*with* Deabay, Elaina) Polyomino weak achievement games on 3-dimensional rectangular boards. (English summary) **2005h:05044**
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Sun, Hao[2] A survey of solutions for set games. (English and Chinese summaries)
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— (*with* von Schemde, Arndt; von Stengel, Bernhard) Symmetry and p-stability. (English summary) **2005g:91018**
Kočinac, Ljubiša D. R. Closure properties of function spaces. (English summary) **2005e:54016**
— (*with* Scheepers, Marion) Combinatorics of open covers. VII. Groupability. (English summary) **2005c:54020**
— Selected results on selection principles. (English summary) **2005g:54038**
— *see also* **Babinkostova, Liljana et al.**, **2005g:03063** *and* **2005m:54039**
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Mertens, Jean-François Localization of the degree on lower-dimensional sets. (English summary) **2005j:55001**
— *see also* **Govindan, Srihari**, **2005h:91011**
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Rébillé, Yann *see* **Chateauneuf, Alain**, **2005c:28004**
Repický, Miroslav Mycielski ideal and the perfect set theorem. (English summary) **2005g:03066**
Rybakov, V. I. Yet another class of Namioka spaces. (Russian. Russian summary) **2005c:54013**
Scheepers, Marion *see* **Kočinac, Ljubiša D. R.**, **2005c:54020**; **Babinkostova, Liljana et al.**, **2005g:03063** *and* **2005m:54039**
von Schemde, Arndt *see* **Govindan, Srihari et al.**, **2005g:91018**
von Stengel, Bernhard *see* **Govindan, Srihari et al.**, **2005g:91018**
Sun, Hao[2] (*with* Zhang, Sheng Gui[2]; Li, Xue-liang) A coalitional power value for set games. (English summary) **2005g:91038**
Tomita, A. H. *see* **García Ferreira, Salvador et al.**, **2005c:54002**
Zhang, Sheng Gui[2] *see* **Sun, Hao[2] et al.**, **2005g:91038**

91A46 Combinatorial games

Ahmad, Ishfaq *see* **Khan, Samee Ullah**
Aichholzer, Oswin (*with* Bremner, David; Demaine, Erik D.; Hurtado, Ferran; Kranakis, Evangelos; Krasser, Hannes; Ramaswami, Suneeta; Sethia, Saurabh; Urrutia, Jorge) Playing with triangulations. (English summary) **2005g:91059**

Algaba, E. (*with* Bilbao, J. M.; van den Brink, René; Jiménez-Losada, A.) Cooperative games on antimatroids. (English summary) **2005b:91054**
Bilbao, J. M. *see* **Algaba, E. et al., 2005b:91054**
Bregman, Lev M. (*with* Bregman, Tatyana T.) Acceptance-rejection procedure for games with multi-agent players. (English and Chinese summaries)
Bregman, Tatyana T. *see* **Bregman, Lev M.**
Bremner, David *see* **Aichholzer, Oswin et al., 2005g:91059**
Breukelaar, Ron (*with* Demaine, Erik D.; Hohenberger, Susan; Hoogeboom, Hendrik Jan; Kosters, Walter A.; Liben-Nowell, David) Tetris is hard, even to approximate. (English summary) **2005e:91038**
van den Brink, René *see* **Algaba, E. et al., 2005b:91054**
Byrnes, Steven Poset game periodicity. (English summary) **2005c:91031**
Campbell, Garikai On optimal play in the game of Hex. (English summary) **2005c:91032**
Cincotti, A. Three-player partizan games. (English summary) **2005j:91018**
Collins, David Josiah Variations on a theme of Euclid. (English summary) **2005k:91080**
Demaine, Erik D. *see* **Breukelaar, Ron et al., 2005e:91038** *and* **Aichholzer, Oswin et al., 2005g:91059**
Doerr, Benjamin Antirandomizing the wrong game. (English summary) (*see* **2005a:68008**)
Ellis, Robert B. (*with* Yan, Catherine H.) Ulam's pathological liar game with one half-lie. (English summary) **2005c:91033**
Grossman, J. P. Periodicity in one-dimensional peg duotaire. (English summary) **2005b:91055**
Hohenberger, Susan *see* **Breukelaar, Ron et al., 2005e:91038**
Hoogeboom, Hendrik Jan *see* **Breukelaar, Ron et al., 2005e:91038**
Howse, S. (*with* Nowakowski, Richard) Periodicity and arithmetic-periodicity in hexadecimal games. (English summary) **2005f:91037**
Hurtado, Ferran *see* **Aichholzer, Oswin et al., 2005g:91059**
Jiménez-Losada, A. *see* **Algaba, E. et al., 2005b:91054**
Kao, Kuo-Yuan Sumbers—sums of ups and downs. (English summary) **2005k:91081**
Khan, Samee Ullah Plays, values, analysis and the complexity of Chinese chess.
— (*with* Ahmad, Ishfaq) Some preliminary results on three combinatorial board games. (English summary)
Kosters, Walter A. *see* **Breukelaar, Ron et al., 2005e:91038**
Kranakis, Evangelos *see* **Aichholzer, Oswin et al., 2005g:91059**
Krasser, Hannes *see* **Aichholzer, Oswin et al., 2005g:91059**
Liben-Nowell, David *see* **Breukelaar, Ron et al., 2005e:91038**
Lim, Chu-Wee Partial Nim. (English summary) **2005m:91046**
Nowakowski, Richard *see* **Howse, S., 2005f:91037**
Pluhár, András The recycled Kaplansky's game. (English summary) **2005c:91034**
Raghavan, T. E. S. *see* **Solymosi, Tamás et al., 2005f:91038**
Ramaswami, Suneeta *see* **Aichholzer, Oswin et al., 2005g:91059**
Sethia, Saurabh *see* **Aichholzer, Oswin et al., 2005g:91059**
Solymosi, Tamás (*with* Raghavan, T. E. S.; Tijs, S. H.) Computing the nucleolus of cyclic permutation games. (English summary) **2005f:91038**
Sun, Xinyu (*with* Zeilberger, Doron) On Fraenkel's N-heap Wythoff's conjectures. (English summary) **2005e:91039**
Tijs, S. H. *see* **Solymosi, Tamás et al., 2005f:91038**
Urrutia, Jorge *see* **Aichholzer, Oswin et al., 2005g:91059**
Yan, Catherine H. *see* **Ellis, Robert B., 2005c:91033**
Zeilberger, Doron *see* **Sun, Xinyu, 2005e:91039**

Items with secondary classifications in 91A46

Auriol, N. (*with* Marchi, Ezio) k-sided permutation games and multiprices of equilibrium. (English summary) **2005b:91024**
Cechlárová, Katarína (*with* Hajduková, Jana) Stable partitions with $\mathscr{W}$-preferences. (English summary) **2005a:05176**
Chen, Hubie (*with* Pál, Martin) Optimization, games, and quantified constraint satisfaction. (English summary) **2005m:90095**
Epelman, Marina A. *see* **Lambert, Theodore J., III et al., 2005m:90097**
Fekete, Sándor P. (*with* Meijer, Henk) The one-round Voronoi game replayed. (English summary) **2005g:68171**
Goddard, Wayne Mastermind revisited. (English summary) **2005g:91012**
Hajduková, Jana *see* **Cechlárová, Katarína, 2005a:05176**
Holshouser, Arthur (*with* Reiter, Harold) Nimlike games with generalized bases. (English summary)
Idzik, Adam (*with* Junosza-Szaniawski, Konstanty) Combinatorial lemmas for nonoriented pseudomanifolds. (English summary) **2005e:90108**
Iwata, Satoru (*with* Zuiki, Nozomu) A network flow approach to cost allocation for rooted trees. (English summary) **2005f:91036**
Junosza-Szaniawski, Konstanty *see* **Idzik, Adam, 2005e:90108**
Lambert, Theodore J., III (*with* Epelman, Marina A.; Smith, Robert L.) A fictitious play approach to large-scale optimization. (English summary) **2005m:90097**
Lücking, Thomas (*with* Mavronicolas, Marios; Monien, Burkhard; Rode, Manuel) A new model for selfish routing. (English summary) **2005e:91011**
Marchi, Ezio *see* **Auriol, N., 2005b:91024**
Mavronicolas, Marios *see* **Lücking, Thomas et al., 2005e:91011**
Meijer, Henk *see* **Fekete, Sándor P., 2005g:68171**
Monien, Burkhard *see* **Lücking, Thomas et al., 2005e:91011**
Pál, Martin *see* **Chen, Hubie, 2005m:90095**
Ravikumar, Balasubramanian Peg-solitaire, string rewriting systems and finite automata. (English summary) **2005e:68119**
Reiter, Harold *see* **Holshouser, Arthur**
Rode, Manuel *see* **Lücking, Thomas et al., 2005e:91011**
Smith, Robert L. *see* **Lambert, Theodore J., III et al., 2005m:90097**
Xu, Chuan *see* **Yang, Kai, 2005a:05021**
Yang, Kai (*with* Xu, Chuan) Preliminary exploration of the 4-peg Hanoi tower. (Chinese. English and Chinese summaries) **2005a:05021**
Zeilberger, Doron Chomp, recurrences and chaos(?). (English summary) **2005g:39014**
Zuiki, Nozomu *see* **Iwata, Satoru, 2005f:91036**

91A50 Discrete-time games

Bischi, Gian-Italo (*with* Chiarella, Carl; Kopel, Michael) The long run outcomes and global dynamics of a duopoly game with misspecified demand functions. (English summary) **2005e:91040**
Chiarella, Carl *see* **Bischi, Gian-Italo et al., 2005e:91040**
Gyurkovics, É. (*with* Takács, T.) Guaranteeing cost strategies for infinite horizon difference games with uncertain dynamics. (English summary) **2005m:91047**
Kopel, Michael *see* **Bischi, Gian-Italo et al., 2005e:91040**
Matsumoto, Akio Statistical dynamics in piecewise linear Cournot game with heterogeneous duopolists. (English summary) **2005h:91052**
Takács, T. *see* **Gyurkovics, É., 2005m:91047**
Tuinstra, Jan A price adjustment process in a model of monopolistic competition. (English summary) **2005f:91039**

Items with secondary classifications in 91A50

Bischi, Gian-Italo (*with* Lamantia, Fabio) A competition game with knowledge accumulation and spillovers. (English summary) **2005e:91027**
Chaudhuri, K. S. *see* **Kar, Tapan Kumar^2, 2005g:92032**
Kar, Tapan Kumar^2 (*with* Chaudhuri, K. S.) On selective harvesting of two competing fish species in the presence of environmental fluctuation. (English summary) **2005g:92032**
Krabs, Werner (*with* Pickl, Stefan Wolfgang) ★ Analysis, controllability and optimization of time-discrete systems and dynamical games. **2005b:93003**
— (*with* Pickl, Stefan Wolfgang) A game-theoretic treatment of a time-discrete emission reduction model. (English summary) **2005c:91027**
Lamantia, Fabio *see* **Bischi, Gian-Italo, 2005e:91027**
McEneaney, William M. Some classes of imperfect information finite state-space stochastic games with finite-dimensional solutions. (English summary) **2005e:91026**
Pickl, Stefan Wolfgang *see* **Krabs, Werner, 2005b:93003** *and* **2005c:91027**
Płatkowski, Tadeusz (*with* Ramsza, Michał) Multimarket minority game. (English summary) **2005m:91083**
Ramsza, Michał *see* **Płatkowski, Tadeusz, 2005m:91083**

Items listed otherwise than by author

Lecture Notes in Economics and Mathematical Systems *see* **Krabs, Werner, 2005b:93003**

91A55 Games of timing

Hoppe, Heidrun C. (*with* Lehmann-Grube, Ulrich) Innovation timing games: a general framework with applications. (English summary) **2005j:91019**
Lehmann-Grube, Ulrich *see* **Hoppe, Heidrun C., 2005j:91019**

Items with secondary classifications in 91A55

Solan, Eilon Subgame-perfection in quitting games with perfect information and differential equations. (English summary) **2005i:91021**

91A60 Probabilistic games; gambling

Abbott, Derek *see* **Amengual, P. et al., 2005e:91041** *and* **Harmer, Gregory P. et al., 2005h:91053**
Allison, Andrew Gordon *see* **Amengual, P. et al., 2005e:91041**
Amengual, P. (*with* Allison, Andrew Gordon; Toral, R.; Abbott, Derek) Discrete-time ratchets, the Fokker-Planck equation and Parrondo's paradox. (English summary) **2005e:91041**
Bak, Joseph The anxious gambler's ruin. **2005f:91040**
Barnett, Tristan (*with* Clarke, Stephen R.) Combining player statistics to predict outcomes of tennis matches. (English summary) **2005k:91082**
Blachman, Nelson M. (*with* Kilgour, D. Marc) Elusive optimality in the box problem.
Borm, Peter *see* **Dreef, Marcel et al., 2005b:91056**
Clarke, Stephen R. *see* **Barnett, Tristan, 2005k:91082**
Dreef, Marcel (*with* Borm, Peter; van der Genugten, Ben) Measuring skill in games: several approaches discussed. (English summary) **2005b:91056**
van der Genugten, Ben *see* **Dreef, Marcel et al., 2005b:91056**
Harmer, Gregory P. (*with* Abbott, Derek; Parrondo, Juan M. R.) Parrondo's capital and history-dependent games. (English summary) **2005h:91053**
Jacobson, Sheldon H. *see* **Shyryayev, I., 2005k:91083**
Jia, Tian Li Research on the probability of fair game. (Chinese. English and Chinese summaries)
Kilgour, D. Marc *see* **Blachman, Nelson M.**
Koether, Robb T. (*with* Osoinach, John K., Jr.) Outwitting the lying oracle. **2005m:91048**
Lewis, A. J. Handicapping in group and extended golf competitions. (English summary)
MacPhee, I. M. (*with* Rougier, Jonathan; Pollard, G. H.) Server advantage in tennis matches. (English summary) **2005i:91034**
Osoinach, John K., Jr. *see* **Koether, Robb T., 2005m:91048**
Parrondo, Juan M. R. *see* **Harmer, Gregory P. et al., 2005h:91053**
Pollard, G. H. *see* **MacPhee, I. M. et al., 2005i:91034**
Rougier, Jonathan *see* **MacPhee, I. M. et al., 2005i:91034**
Sakaguchi, Minoru Multistage three-person game with arbitration. (English summary) **2005c:91035**
— Two-player games of "score showdown". (English summary) **2005g:91060**
Shelton, Kennan The singled out game.
Shyryayev, I. (*with* Jacobson, Sheldon H.) A sensitivity analysis of matching coin game strategies. (English summary) **2005k:91083**
Toral, R. *see* **Amengual, P. et al., 2005e:91041**

Items with secondary classifications in 91A60

Abbott, Derek *see* **Flitney, Adrian P. et al., 2005g:82052**
Aczel, Amir D. ★ Chance. **2005h:00005**
Allaart, Pieter C. An application of prophet regions to optimal stopping with a random number of observations. (English summary) **2005i:60079**

Alpcan, Tansu (*with* Başar, Tamer) Distributed algorithms for Nash equilibria of flow control games. (English summary) **2005h:90014**
Başar, Tamer *see* **Alpcan, Tansu**, **2005h:90014**
Brânzei, Rodica A Markov chain approach to three-person games with entropic criteria. (English summary) **2005f:91022**
Ebert, Todd (*with* Merkle, Wolfgang; Vollmer, Heribert) On the autoreducibility of random sequences. (English summary) **2005f:03058**
Fischer, Ilan The emergence of reactive strategies in simulated heterogeneous populations. (English summary)
Flitney, Adrian P. (*with* Abbott, Derek; Johnson, Neil F.) Quantum walks with history dependence. (English summary) **2005g:82052**
Gill, David (*with* Sgroi, Daniel) Sequential decision-making and asymmetric equilibria: an application to takeovers. (English summary)
Johnson, Neil F. *see* **Flitney, Adrian P. et al.**, **2005g:82052**
Karp, Richard M. (*with* Kenyon, Claire) A gambling game arising in the analysis of adaptive randomized rounding. (English summary) **2005c:68288**
Kenyon, Claire *see* **Karp, Richard M.**, **2005c:68288**
Merkle, Wolfgang *see* **Ebert, Todd et al.**, **2005f:03058**
Pontiggia, Laura Two-person red-and-black with bet-dependent win probabilities. (English summary) **2005k:91049**
Renes, Joseph M. Equiangular spherical codes in quantum cryptography. (English summary) **2005i:81029**
Richards, Donald St. P. *see* **Székely, Gábor J.**
Scarf, Philip (*with* Shi, Xin) Modelling match outcomes and decision support for setting a final innings target in test cricket. (English summary) **2005k:93008**
Sgroi, Daniel *see* **Gill, David**
Shi, Xin *see* **Scarf, Philip**, **2005k:93008**
Székely, Gábor J. (*with* Richards, Donald St. P.) The St. Petersburg paradox and the crash of high-tech stocks in 2000. (English summary)
Vollmer, Heribert *see* **Ebert, Todd et al.**, **2005f:03058**
Williams, Lambert Cardano and the gambler's habitus. (English summary) **2005k:01013**

91A65 Hierarchical games

Besfamille, Martin Collusion in local public works. (English summary)
Dempe, Stephan (*with* Kalashnikov, Vyacheslav Vital′evich) A mixed-discrete bilevel programming problem. (English summary) **2005e:91042**
Gorelov, M. A. A parametric formulation of the problem of the design of rational procedures for the exchange of information in a two-person hierarchical game. (Russian. Russian summary) **2005g:91061**
— A linear method for information aggregation in hierarchical games. (Russian. Russian summary) **2005j:91020**
Han, Hai-Shan (*with* Xia, Zun Quan) A Stackelberg model for server-proxies-users systems. (English summary) **2005g:91062**
Kalashnikov, Vyacheslav Vital′evich *see* **Dempe, Stephan**, **2005e:91042**
Lu, Jie[2] *see* **Shi, Chenggen et al.**, **2005f:91041** *and* **2005i:91035**
Outrata, Jiří V. A note on a class of equilibrium problems with equilibrium constraints. (English summary) **2005m:91049**
Ruan, G. Z. (*with* Wang, Shou Yang; Yamamoto, Yoshitsugu; Zhu, Shu-Shang) Optimality conditions and geometric properties of a linear multilevel programming problem with dominated objective functions. (English summary) **2005g:91063**
Shi, Chenggen (*with* Zhang, Guang-Quan; Lu, Jie[2]) On the definition of linear bilevel programming solution. (English summary) **2005f:91041**
— (*with* Lu, Jie[2]; Zhang, Guang-Quan) An extended Kuhn-Tucker approach for linear bilevel programming. (English summary) **2005i:91035**
Wang, Shou Yang *see* **Ruan, G. Z. et al.**, **2005g:91063**
Xia, Zun Quan *see* **Han, Hai-Shan**, **2005g:91062**
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Zhang, Guang-Quan *see* **Shi, Chenggen et al.**, **2005f:91041** *and* **2005i:91035**
Zhu, Shu-Shang *see* **Ruan, G. Z. et al.**, **2005g:91063**

Items with secondary classifications in 91A65

Baston, Vic J. (*with* Garnaev, A. Yu.) Competition for staff between two departments. (*see* **2005j:91002**)
van Damme, Eric (*with* Hurkens, Sjaak) Endogenous price leadership. (English summary) **2005d:91040**
D'Ecclesia, Rita L. (*with* Zenios, Stavros A.) Estimation of asset demands by heterogeneous agents. (English summary) **2005e:91099**
Deissenberg, Christophe (*with* Gonzalez, Francisco Alvarez) Pareto-improving cheating in an economic policy game. (English summary) **2005c:91023**
Faria, João Ricardo The game academics play: editors versus authors. (English summary) **2005h:91055**
Garnaev, A. Yu. *see* **Baston, Vic J.**, (**2005j:91002**)
Gonzalez, Francisco Alvarez *see* **Deissenberg, Christophe**, **2005c:91023**
Han, Lili (*with* Li, Rong Sheng[2]) The solution concepts and the optimality condition for a kind of bilevel programming with multifollowers. (English summary)
Huisman, Kuno J. M. (*with* Kort, Peter M.) Strategic technology adoption taking into account future technological improvements: a real options approach. (English summary) **2005b:91035**
Hurkens, Sjaak *see* **van Damme, Eric**, **2005d:91040**
Katagiri, Hideki *see* **Nishizaki, Ichiro et al.**, (**2005b:90008**)
Kato, Kosuke *see* **Nishizaki, Ichiro et al.**, (**2005b:90008**)
Kočvara, Michal (*with* Outrata, Jiří V.) Optimization problems with equilibrium constraints and their numerical solution. (English summary) **2005c:90098**
Kort, Peter M. *see* **Huisman, Kuno J. M.**, **2005b:91035**
Lau, Amy Hing Ling (*with* Lau, Hon-Shiang) Some two-echelon supply-chain games: improving from deterministic-symmetric-information to stochastic-asymmetric-information models. (English summary) **2005e:90003**
Lau, Hon-Shiang *see* **Lau, Amy Hing Ling**, **2005e:90003**
Li, Rong Sheng[2] *see* **Han, Lili**
Lin, Zhi (*with* Yu, Jian[1]) On well-posedness of the multiobjective generalized game. (English summary) **2005e:91010**
Lu, Jie[2] *see* **Shi, Chenggen et al.**
Mallozzi, L. (*with* Morgan, Jacqueline) Oligopolistic markets with leadership and demand functions possibly discontinuous. (English summary) **2005m:91130**
Mookherjee, Dilip (*with* Tsumagari, Masatoshi) The organization of supplier networks: effects of delegation and intermediation. (English summary) **2005a:91047**
Morgan, Jacqueline *see* **Mallozzi, L.**, **2005m:91130**
Morgan, Roy John (*with* Várdy, Felix) An experimental study of commitment in Stackelberg games with observation costs. (English summary) **2005f:91018**
Nishizaki, Ichiro (*with* Sakawa, Masatoshi; Kato, Kosuke; Katagiri, Hideki) Stackelberg solutions to two-level linear programming problems with random variable coefficients. (English summary) (*see* **2005b:90008**)
Outrata, Jiří V. *see* **Kočvara, Michal**, **2005c:90098**
Romano, Richard (*with* Yildirim, Huseyin) On the endogeneity of Cournot-Nash and Stackelberg equilibria: games of accumulation. (English summary) **2005h:91015**
Roughgarden, Tim Stackelberg scheduling strategies. (English summary) (*see* **2005j:68008**)
— Stackelberg scheduling strategies. (English summary) **2005e:68100**
Sakawa, Masatoshi *see* **Nishizaki, Ichiro et al.**, (**2005b:90008**)
Shi, Chenggen (*with* Lu, Jie[2]; Zhang, Guang-Quan) An extended Kth-best approach for linear bilevel programming. (English summary)
Tsumagari, Masatoshi *see* **Mookherjee, Dilip**, **2005a:91047**
Várdy, Felix The value of commitment in Stackelberg games with observation costs. (English summary) **2005f:91017**
— *see also* **Morgan, Roy John**, **2005f:91018**
Xu, Hui Fu An MPCC approach for stochastic Stackelberg-Nash-Cournot equilibrium. (English summary) **2005j:91011**
Ye, Jane J. Nondifferentiable multiplier rules for optimization and bilevel optimization problems. (English summary) **2005h:90158**
Yildirim, Huseyin *see* **Romano, Richard**, **2005h:91015**
Yu, Jian[1] *see* **Lin, Zhi**, **2005e:91010**
Zenios, Stavros A. *see* **D'Ecclesia, Rita L.**, **2005e:91099**
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Zhang, Ruoxin Multistage bilevel programming problems. (English summary) **2005b:90121**

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Amacher, Gregory S. (*with* Koskela, Erkki; Ollikainen, Markku) Forest rotations and stand interdependency: ownership structure and timing of decisions. (English summary) **2005b:91057**
Chai, Jun *see* **Zhang, Jing**[11]
Chen, Hong[3] (*with* Wan, Yat-wah) Capacity competition of make-to-order firms. (English summary) **2005h:91054**
Chu, Hong Sheng (*with* Suo, Han Sheng; Wang, Jing Chun; Jin, Yi Hui) Supply chain coordination with competition between multiple risk aversion retailers. (Chinese. English and Chinese summaries) **2005g:91064**
Coppola, Emery, Jr. (*with* Szidarovszky, Ferenc) Conflict between water supply and environmental health risk: a computational neural network approach. (English summary)
Drineas, Petros (*with* Kerenidis, Iordanis; Raghavan, Prabhakar) Competitive recommendation systems. (English summary) (*see* **2005i:68004**)
Faria, João Ricardo The game academics play: editors versus authors. (English summary) **2005h:91055**
Jin, Yi Hui *see* **Chu, Hong Sheng et al.**, **2005g:91064**
Kerenidis, Iordanis *see* **Drineas, Petros et al.**, (**2005i:68004**)
Koskela, Erkki *see* **Amacher, Gregory S. et al.**, **2005b:91057**
Kuhn, Steven T. Reflections of ethics and game theory. (English summary) **2005c:91036**
Leitmann, George *see* **Seube, N. et al.**, **2005f:91042**
Luo, Zhi-Quan *see* **Yamashita, Nobuo**, **2005f:91043**
Moitie, R. *see* **Seube, N. et al.**, **2005f:91042**
Moschini, GianCarlo Nash equilibrium in strictly competitive games: live play in soccer. (English summary)
Ollikainen, Markku *see* **Amacher, Gregory S. et al.**, **2005b:91057**
Raghavan, Prabhakar *see* **Drineas, Petros et al.**, (**2005i:68004**)
Seube, N. (*with* Moitie, R.; Leitmann, George) Aircraft take-off in windshear: a viability approach. (English summary) **2005f:91042**
Suo, Han Sheng *see* **Chu, Hong Sheng et al.**, **2005g:91064**
Szidarovszky, Ferenc *see* **Coppola, Emery, Jr.**
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Wang, Jing Chun *see* **Chu, Hong Sheng et al.**, **2005g:91064**
Wie, Byung-Wook Open-loop and closed-loop models of dynamic oligopoly in the cruise line industry. (English summary) **2005h:91056**
Yamashita, Nobuo (*with* Luo, Zhi-Quan) A nonlinear complementarity approach to multiuser power control for digital subscriber lines. (English summary) **2005f:91043**
Yu, Zhihao Environmental protection: a theory of direct and indirect competition for political influence. (English summary) **2005h:91057**
Zhang, Jing[11] (*with* Chai, Jun) Analytic hierarchy process in multiobjective investment of multi-person cooperation. (Chinese. English and Chinese summaries)

Items with secondary classifications in 91A80

Armony, Mor (*with* Maglaras, Constantinos) On customer contact centers with a call-back option: customer decisions, routing rules, and system design. (English summary) **2005f:90027**
Avenhaus, R. Applications of inspection games. (English and Lithuanian summaries) **2005f:91004**
Bauch, Chris T. (*with* Earn, David J. D.) Vaccination and the theory of games. (English summary) **2005f:91028**
Beladi, Hamid (*with* Oladi, Reza) Foreign investment policies and environment. (English summary)

Bjørndal, Endre (*with* Koster, Maurice; Tijs, S. H.) Weighted allocation rules for standard fixed tree games. (English summary) **2005e:91037**
Carreras, Francesc (*with* Freixas, Josep) A power analysis of linear games with consensus. (English summary) **2005b:91025**
Cason, Timothy N. (*with* Saijo, Tatsuyoshi; Yamato, Takehiko; Yokotani, Konomu) Non-excludable public good experiments. (English summary)
Chadha, Rohit (*with* Mitchell, John C.; Scedrov, Andre; Shmatikov, Vitaly) Contract signing, optimism, and advantage. (English summary) **2005c:94063**
Chang, Myong-Hun *see* **Harrington, Joseph E., Jr., 2005h:91138**
Conforto, Paolo (*with* Delli Priscoli, Francesco) Routing and dynamic resource assignment joint game: a non-cooperative model for QoS routing. (English summary)
Delli Priscoli, Francesco *see* **Conforto, Paolo**
Doerr, Benjamin Typical rounding problems. (English summary) (*see* **2005d:68005**)
Earn, David J. D. *see* **Bauch, Chris T., 2005f:91028**
Feldmann, Rainer (*with* Gairing, Martin; Lücking, Thomas; Monien, Burkhard; Rode, Manuel) Nashification and the coordination ratio for a selfish routing game. (English summary) (*see* **2005b:68008**)
Freixas, Josep *see* **Carreras, Francesc, 2005b:91025**
Fukumoto, Jun-ya External audit system of project evaluation: optimal structure and audit quality. (English summary)
Fukuyama, Hirofumi (*with* Naito, Tohru) Industrial garbage tax and environmental policy game under a two-region model. (English summary) **2005k:91238**
Gairing, Martin *see* **Feldmann, Rainer et al., (2005b:68008)**
García, Diego Monotonicity in direct revelation mechanisms. (English summary) **2005m:91125**
Habbal, Abderrahmane (*with* Petersson, Joakim; Thellner, Mikael) Multidisciplinary topology optimization solved as a Nash game. (English summary) **2005i:74063**
Han, Lu *see* **Ye, Jun[3] et al., 2005e:90128**
Harrington, Joseph E., Jr. (*with* Chang, Myong-Hun) Co-evolution of firms and consumers and the implications for market dominance. (English summary) **2005h:91138**
Henzinger, Thomas A. (*with* Jhala, Ranjit; Majumdar, Rupak) Counterexample-guided control. (English summary) (*see* **2005b:68008**)
Hołyst, Janusz A. (*with* Nowak, Maciej A.) Editorial [Applications of physics in financial analysis 4 (APFA4)].
Huang, Chien-Chieh (*with* Laing, Derek; Wang, Ping[12]) Crime and poverty: a search-theoretic approach. (English summary) **2005b:90056**
Hughes Hallett, Andrew (*with* Weymark, Diana N.) Independent monetary policies and social equity. (English summary)
Jhala, Ranjit *see* **Henzinger, Thomas A. et al., (2005b:68008)**
Johansson-Stenman, Olof Global environmental problems, efficiency and limited altruism. (English summary)
Johari, Ramesh (*with* Tsitsiklis, John N.) Efficiency loss in a newtork resource allocation game. (English summary) **2005e:90014**
Kanazaki, Masayuki Lobbying game between the government with private information and the lobbyist. (English summary) **2005m:91068**
Kehoe, Patrick J. (*with* Perri, Fabrizio) Competitive equilibria with limited enforcement. (English summary) **2005e:91125**
Kobayashi, Kiyoshi *see* **Onishi, Masamitsu et al., 2005k:91195**
Koster, Maurice *see* **Bjørndal, Endre et al., 2005e:91037**
Laing, Derek *see* **Huang, Chien-Chieh et al., 2005b:90056**
Li, Chu Lin *see* **Mei, Zheng Yang, 2005k:91164** *and* **Yang, Ming**
Li, Shao Yuan[2] (*with* Zhang, Yan[11]; Zhu, Quanmin) Nash-optimization enhanced distributed model predictive control applied to the Shell benchmark problem. (English summary) **2005h:93064**
Lippi, Francesco Strategic monetary policy with non-atomistic wage setters. (English summary) **2005a:91096**
Liu, Xiande *see* **Ye, Jun[3] et al., 2005e:90128**
Lomonosov, Andrew (*with* Sitharam, Meera; Park, Kihong[2]) Network QoS games: stability vs optimality tradeoff. (English summary) **2005d:91006**
Lücking, Thomas *see* **Feldmann, Rainer et al., (2005b:68008)**
Maglaras, Constantinos *see* **Armony, Mor, 2005f:90027**
Majumdar, Rupak *see* **Henzinger, Thomas A. et al., (2005b:68008)**
Mandelbaum, Avishai *see* **Shimkin, Nahum, 2005d:90034**
Mei, Zheng Yang (*with* Li, Chu Lin) Options-game analysis for firm with insured debt. (English summary) **2005k:91164**
Mitchell, John C. *see* **Chadha, Rohit et al., 2005c:94063**
Monien, Burkhard *see* **Feldmann, Rainer et al., (2005b:68008)**
Naito, Tohru *see* **Fukuyama, Hirofumi, 2005k:91238**
Nowak, Maciej A. *see* **Hołyst, Janusz A.**
Oladi, Reza *see* **Beladi, Hamid**
Omoto, Toshihiko *see* **Onishi, Masamitsu et al., 2005k:91195**
Onishi, Masamitsu (*with* Omoto, Toshihiko; Kobayashi, Kiyoshi) Introducing a quasi-judicial party to dispute resolution in construction contracts. (English summary) **2005k:91195**
Park, Kihong[2] *see* **Lomonosov, Andrew et al., 2005d:91006**
Perri, Fabrizio *see* **Kehoe, Patrick J., 2005e:91125**
Petersson, Joakim *see* **Habbal, Abderrahmane et al., 2005i:74063**
Rode, Manuel *see* **Feldmann, Rainer et al., (2005b:68008)**
Roughgarden, Tim (*with* Tardos, Éva) How bad is selfish routing? (English summary) **2005m:90053**
Saijo, Tatsuyoshi *see* **Cason, Timothy N. et al.**
Sakakibara, Hiroyuki Model analysis of communication scheme in participatory planning game as an institutionalized conflict. (English summary) **2005k:91072**
Scedrov, Andre *see* **Chadha, Rohit et al., 2005c:94063**
Seidmann, Daniel J. The effects of a right to silence. (English summary) **2005j:91065**
Serrano, Roberto The theory of implementation of social choice rules. (English summary) **2005k:91107**
Shimkin, Nahum (*with* Mandelbaum, Avishai) Rational abandonment from tele-queues: nonlinear waiting costs with heterogeneous preferences. (English summary) **2005d:90034**
Shmatikov, Vitaly *see* **Chadha, Rohit et al., 2005c:94063**
Silverman, Dan Street crime and street culture. (English summary) **2005c:91107**
Sitharam, Meera *see* **Lomonosov, Andrew et al., 2005d:91006**
Skrzypczyk, Krzysztof Control of a team of mobile robots based on non-cooperative equilibria with partial coordination. (English summary) **2005j:93051**
Tardos, Éva *see* **Roughgarden, Tim, 2005m:90053**
Thellner, Mikael *see* **Habbal, Abderrahmane et al., 2005i:74063**
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Tsitsiklis, John N. *see* **Johari, Ramesh, 2005e:90014**
Wang, Ping[12] *see* **Huang, Chien-Chieh et al., 2005b:90056**
Weymark, Diana N. *see* **Hughes Hallett, Andrew**
Yamato, Takehiko *see* **Cason, Timothy N. et al.**
Yang, Ming (*with* Li, Chu Lin) Investment option of R&D follower investor in a duopoly model. (Chinese. English and Chinese summaries)
Ye, Jun[3] (*with* Liu, Xiande; Han, Lu) Evolutionary game algorithm for continuous parameter optimization. (English summary) **2005e:90128**
Yokotani, Konomu *see* **Cason, Timothy N. et al.**
Zhang, Yan[11] *see* **Li, Shao Yuan[2] et al., 2005h:93064**
Zhu, Quanmin *see* **Li, Shao Yuan[2] et al., 2005h:93064**

91A90 Experimental studies

Abbink, Klaus (*with* Sadrieh, Abdolkarim; Zamir, Shmuel) Fairness, public good, and emotional aspects of punishment behavior. (English summary) **2005h:91058**
Apesteguia, Jose *see* **Selten, Reinhard, 2005k:91084**
Bottazzi, Giulio (*with* Devetag, Giavanna) Coordination and self-organization in minority games: experimental evidence. (English summary) **2005m:91050**
Burks, Stephen *see* **Carpenter, Jeffrey et al.**
Carpenter, Jeffrey (*with* Verhoogen, Eric; Burks, Stephen) The effect of stakes in distribution experiments. (English summary)
Cheng, Ling (*with* Gao, Hong Wei[2]; Qiao, Han) An economics experiment analyses on Chinese stock market. (English and Chinese summaries)
Chmura, Thorsten (*with* Kube, Sebastian; Pitz, Thomas; Puppe, Clemens) Testing (beliefs about) social preferences: evidence from an experimental coordination game. (English summary) **2005m:91051**
Cincotti, Silvano *see* **Raberto, Marco et al., (2005j:91003)**
Devetag, Giavanna *see* **Bottazzi, Giulio, 2005m:91050**
Dose, Christian *see* **Raberto, Marco et al., (2005j:91003)**
Fischer, Ilan The emergence of reactive strategies in simulated heterogeneous populations. (English summary)
Focardi, Sergio M. *see* **Raberto, Marco et al., (2005j:91003)**
Gao, Hong Wei[2] *see* **Cheng, Ling et al.**
Groot, Robert D. (*with* Musters, Pieter A. D.) Minority game of price promotions in fast moving consumer goods markets. (English summary)
Güth, Werner (*with* Levati, M. Vittoria; Maciejovsky, Boris) Deadline effects in sequential bargaining—an experimental study. (English summary) **2005m:91052**
Heinemann, Frank (*with* Nagel, Rosemarie; Ockenfels, Peter) The theory of global games on test: experimental analysis of coordination games with public and private information. (English summary) **2005b:91058**
Kube, Sebastian *see* **Chmura, Thorsten et al., 2005m:91051**
Levati, M. Vittoria *see* **Güth, Werner et al., 2005m:91052**
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Marchesi, Michele *see* **Raberto, Marco et al., (2005j:91003)**
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Ockenfels, Peter *see* **Heinemann, Frank et al., 2005b:91058**
Pitz, Thomas *see* **Chmura, Thorsten et al., 2005m:91051**
Puppe, Clemens *see* **Chmura, Thorsten et al., 2005m:91051**
Qiao, Han *see* **Cheng, Ling et al.**
Raberto, Marco (*with* Cincotti, Silvano; Dose, Christian; Focardi, Sergio M.; Marchesi, Michele) Price formation in an artificial market: limit order book versus matching of supply and demand. (English summary) (*see* **2005j:91003**)
Sadrieh, Abdolkarim *see* **Abbink, Klaus et al., 2005h:91058**
Salmon, Timothy C. Evidence for learning to learn behavior in normal form games. (English summary) **2005g:91065**
Selten, Reinhard (*with* Apesteguia, Jose) Experimentally observed imitation and cooperation in price competition on the circle. (English summary) **2005k:91084**
Shachat, Jason (*with* Swarthout, J. Todd) Do we detect and exploit mixed strategy play by opponents? (English summary) **2005b:91059**
Swarthout, J. Todd *see* **Shachat, Jason, 2005b:91059**
Verhoogen, Eric *see* **Carpenter, Jeffrey et al.**
Zamir, Shmuel *see* **Abbink, Klaus et al., 2005h:91058**

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Abbott, Derek *see* **Harmer, Gregory P. et al., 2005h:91053**
Alavalapati, Janaki R. R. *see* **Stainback, G. Andrew**
Alexander, J. McKenzie *see* **Vanderschraaf, Peter**
Aseff, Jorge G. Learning to play second-price auctions, an experimental study. (English summary)
Barr, Jason (*with* Saraceno, Francesco) Cournot competition, organization and learning. (English summary)
Brandouy, O. Stock markets as minority games: cognitive heterogeneity and equilibrium emergence. (English summary) **2005i:91060**
Cason, Timothy N. (*with* Reynolds, Stanley S.) Bounded rationality in laboratory bargaining with asymmetric information. (English summary) **2005k:91071**
Chau, Hoi Fung *see* **Chow, F. K.**
Chen, Xi[5] *see* **Qin, Gan[2] et al., 2005m:81046**
Chow, F. K. (*with* Chau, Hoi Fung) Multichoice minority game: dynamics and global cooperation. (English summary)
Croson, Rachel (*with* Fatas, Enrique; Neugebauer, Tibor) Reciprocity, matching and conditional cooperation in two public goods games. (English summary) **2005j:91030**

Du, Jiangfeng *see* **Qin, Gan² et al., 2005m:81046**
Duffy, John (*with* Hopkins, Ed) Learning, information, and sorting in market entry games: theory and evidence. (English summary) **2005k:91014**
Fatas, Enrique *see* **Croson, Rachel et al., 2005j:91030**
Fonseca, Miguel A. (*with* Huck, Steffen; Normann, Hans-Theo) Playing Cournot although they shouldn't: endogenous timing in experimental duopolies with asymmetric cost. (English summary) **2005j:91004**
Fréchette, Guillaume R. (*with* Kagel, John H.; Morelli, Massimo) Gamson's law versus non-cooperative bargaining theory. (English summary) **2005k:91123**
Gerding, E. H. (*with* La Poutré, Johannes A.) Bargaining with posterior opportunities: an evolutionary social simulation. (English summary) **2005m:91078**
González, Luis G. (*with* Güth, Werner; Levati, M. Vittoria) When does the game end? Public goods experiments with non-definite and non-commonly known time horizons. (English summary)
Güth, Werner *see* **González, Luis G. et al.**
Hailu, Atakelty (*with* Schilizzi, Steven) Learning in a "basket of crabs": an agent-based computational model of repeated conservation auctions. (English summary) (*see* **2005j:91003**)
Harmer, Gregory P. (*with* Abbott, Derek; Parrondo, Juan M. R.) Parrondo's capital and history-dependent games. (English summary) **2005h:91053**
Hopkins, Ed *see* **Duffy, John, 2005k:91014**
Huck, Steffen (*with* Müller, Wieland) Burning money and (pseudo) first-mover advantages: an experimental study on forward induction. (English summary) **2005j:91006**
— *see also* **Fonseca, Miguel A. et al., 2005j:91004**
Kagel, John H. *see* **Fréchette, Guillaume R. et al., 2005k:91123**
Kita, Hideyuki *see* **Tanimoto, Keishi**
La Poutré, Johannes A. *see* **Gerding, E. H., 2005m:91078**
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(Lux, Thomas) *see* **Nonlinear dynamics and heterogeneous interacting agents, 2005j:91003**
Maschler, Michael Encouraging a coalition formation. (English summary) **2005g:91036**
Morelli, Massimo *see* **Fréchette, Guillaume R. et al., 2005k:91123**
Morgan, Roy John (*with* Várdy, Felix) An experimental study of commitment in Stackelberg games with observation costs. (English summary) **2005f:91018**
Moschini, GianCarlo Nash equilibrium in strictly competitive games: live play in soccer. (English summary)
Müller, Wieland *see* **Huck, Steffen, 2005j:91006**
Neugebauer, Tibor *see* **Croson, Rachel et al., 2005j:91030**
Normann, Hans-Theo *see* **Fonseca, Miguel A. et al., 2005j:91004**
Ockenfels, Axel (*with* Selten, Reinhard) Impulse balance equilibrium and feedback in first price auctions. (English summary) **2005i:91054**
Okada, Akira (*with* Riedl, Arno) Inefficiency and social exclusion in a coalition formation game: experiment evidence. (English summary) **2005h:91027**
Ortmann, Andreas *see* **Rydval, Ondrej**
Parrondo, Juan M. R. *see* **Harmer, Gregory P. et al., 2005h:91053**
Qin, Gan² (*with* Chen, Xi⁵; Sun, Min; Du, Jiangfeng) Quantum Bertrand duopoly of incomplete information. (English summary) **2005m:81046**
(Reitz, Stefan) *see* **Nonlinear dynamics and heterogeneous interacting agents, 2005j:91003**
Reynolds, Stanley S. *see* **Cason, Timothy N., 2005k:91071**
Riedl, Arno *see* **Okada, Akira, 2005h:91027**
Rydval, Ondrej (*with* Ortmann, Andreas) Loss avoidance as selection principle: evidence from simple stag-hunt games. (English summary)
(Samanidou, Eleni) *see* **Nonlinear dynamics and heterogeneous interacting agents, 2005j:91003**
Saraceno, Francesco *see* **Barr, Jason**
Schilizzi, Steven *see* **Hailu, Atakelty, (2005j:91003)**
Selten, Reinhard *see* **Ockenfels, Axel, 2005i:91054**
Sloof, Randolph Finite horizon bargaining with outside options and threat points. (English summary) **2005k:91133**
Sornette, D. *see* **Vitting Andersen, Jørgen, 2005m:91170**
Stainback, G. Andrew (*with* Alavalapati, Janaki R. R.) Modeling catastrophic risk in economic analysis of forest carbon sequestration. (English summary)
Sun, Min *see* **Qin, Gan² et al., 2005m:81046**
Sutter, Matthias Are four heads better than two? An experimental beauty-contest game with teams of different size. (English summary)
Szidarovszky, Ferenc *see* **Szilágyi, Miklós N. et al.**
Szilágyi, Miklós N. (*with* Zhao, Jijun; Szidarovszky, Ferenc) A new algorithm for the solution of N-person prisoners' dilemmas with Pavlovian agents. (English summary)
Tanimoto, Keishi (*with* Kita, Hideyuki) Empirical study on fair allocation of joint project by cooperative game theory—a case of local bus transportation service in Japan—. (English summary)
Vanderschraaf, Peter (*with* Alexander, J. McKenzie) Follow the leader: local interactions with influence neighborhoods. (English summary)
Várdy, Felix *see* **Morgan, Roy John, 2005f:91018**
Vitting Andersen, Jørgen (*with* Sornette, D.) A mechanism for pockets of predictability in complex adaptive systems. (English summary) **2005m:91170**
Yi, Kang-Oh Quantal-response equilibrium models of the ultimatum bargaining game. (English summary) **2005k:91135**
Zhao, Jijun *see* **Szilágyi, Miklós N. et al.**
Zollman, Kevin J. S. Talking to neighbors: the evolution of regional meaning. (English summary)

Items listed otherwise than by author

Kiel ★ Nonlinear dynamics and heterogeneous interacting agents. **2005j:91003**
Lecture Notes in Economics and Mathematical Systems ★ Nonlinear dynamics and heterogeneous interacting agents. **2005j:91003**
Nonlinear dynamics and heterogeneous interacting agents ★ Nonlinear dynamics and heterogeneous interacting agents. **2005j:91003**

91A99 None of the above, but in this section

Reimann, Stefan Towards understanding the guessing game: a dynamical systems' perspective. (English summary) **2005d:91029**

Items with secondary classifications in 91A99

Laird, James Game semantics and linear CPS interpretation. (English summary) **2005j:68022**
Laurent, Olivier Polarized games. (English summary) **2005g:03107**
Ong, C.-H. Luke An approach to deciding the observational equivalence of Algol-like languages. (English summary) **2005i:68010**

91Bxx Mathematical economics {For econometrics, see 62P20.}

91B02 Fundamental topics (basic mathematics, methodology; applicable to economics in general)

Morgan, Mary S. Imagination and imaging in model building. (English summary)
Prasad, Kislaya Constructive and classical models for results in economics and game theory. (English summary) **2005b:91060**
Tamura, Akihisa Applications of discrete convex analysis to mathematical economics. (English summary) **2005d:91030**
Velupillai, K. Vela Constructivity, computability and computers in economic theory: some cautionary notes. (English summary) **2005e:91043**

Items with secondary classifications in 91B02

Cambini, Riccardo (*with* Carosi, Laura) Coercivity concepts and recession function in constrained problems. (English summary) **2005b:90123**
Carosi, Laura *see* **Cambini, Riccardo, 2005b:90123**
Chen, Xiao Hong *see* **Liu, Ying Fan, 2005a:49032**
Denkowski, Zdzisław (*with* Migórski, Stanisław; Papageorgiou, Nikolaos S.) ★ An introduction to nonlinear analysis: theory. **2005a:47089**
John, Reinhard Uses of generalized convexity and generalized monotonicity in economics. (English summary) (*see* **2005i:90003**)
Li, Jing Hua² A decomposition method of structural decomposition analysis. (English summary) **2005k:91035**
Liu, Ying Fan (*with* Chen, Xiao Hong) Some results on continuous type conditional input-output equation—fixed point and surjectivity methods. (Chinese. English and Chinese summaries) **2005a:49032**
Martínez-Legaz, Juan Enrique Generalized convex duality and its economic applications. (English summary) (*see* **2005i:90003**)
McCauley, Joseph L. ★ Dynamics of markets. **2005e:91006**
Migórski, Stanisław *see* **Denkowski, Zdzisław et al., 2005a:47089**
Moţ, Ghiocel *see* **Petruşel, Adrian, 2005e:91004**
Papageorgiou, Nikolaos S. *see* **Denkowski, Zdzisław et al., 2005a:47089**
Petruşel, Adrian (*with* Moţ, Ghiocel) ★ Multivalued analysis and mathematical economics. **2005e:91004**
Podczeck, K. On core-Walras equivalence in Banach spaces when feasibility is defined by the Pettis integral. (English summary) **2005k:91203**
Serrano, Roberto The theory of implementation of social choice rules. (English summary) **2005k:91107**
Velupillai, K. Vela Introduction and summary [Computability, constructivity and complexity in economic theory].

91B06 Decision theory [see also 62Cxx, 90B50, 91A35]

Adam, Klaus On the relation between robust and Bayesian decision making. (English summary) **2005b:91061**
Amorós, Pablo Nash implementation and uncertain renegotiation. (English summary)
Asheim, Geir B. (*with* Søvik, Ylva) Preference-based belief operators. (English summary) **2005k:91085**
Baidya, Tara *see* **Ekenberg, Love et al., 2005i:91037**
Balinski, Michel What is just?
Barzilai, Jonathan Measurement and preference function modelling. (English summary) **2005i:91036**
Bhattacharya, Sukanto *see* **Khoshnevisan, M. et al.**
Bosi, Gianni Quasi-integral utility for arbitrary preferences. (English summary)
Bouyssou, Denis (*with* Pirlot, Marc) A note on Wakker's cardinal coordinate independence. (English summary) **2005b:91062**
Brandão, Luiz E. (*with* Dyer, James S.) Decision analysis and real options: a discrete time approach to real option valuation. (English summary)
Busemeyer, Jerome R. (*with* Diederich, Adele) Survey of decision field theory. (English summary) **2005b:91063**
Callaghan, Thomas (*with* Mucha, Peter J.; Porter, Mason A.) The bowl championship series: a mathematical review.
Chateauneuf, Alain (*with* Rico, Agnès) A Sugeno integral representation under Stone condition. (English summary) **2005m:91053**
Chen, Chie-Bein *see* **Lin, Chin-Tsai et al., 2005e:91044**
Cheng, Chi-Bin Group opinion aggregation based on a grading process: a method for constructing triangular fuzzy numbers. (English summary)
Chu, Francis C. (*with* Halpern, Joseph Y.) Great expectations. II. Generalized expected utility as a universal decision rule. (English summary) **2005k:91086**
Clark, Michael (*with* Shackel, Nicholas) Decision theory, symmetry and causal structure. Reply to: C. J. G. Meacham and J. Weisberg: "Clark and Shackel on the two-envelope paradox" [Mind **112** (2003), no. 448, 685–689; MR2133097].
— *see also* **Meacham, Christopher J. G.**
Da, Qing Li *see* **Xu, Ze Shui et al.**

Dana, R. A. Market behavior when preferences are generated by second-order stochastic dominance. (English summary) **2005b:91064**
Devendra Nath, J. *see* **Rana, S. S. et al.**
Diederich, Adele *see* **Busemeyer, Jerome R., 2005b:91063**
Drobot, E. V. *see* **Voloshin, A. F. et al.**
Dubois, Didier (*with* Hüllermeier, Eyke; Prade, Henri) Possibilistic case-based decisions. (English summary) **2005b:91065**
Dyer, James S. *see* **Brandão, Luiz E.**
Ekenberg, Love (*with* Thorbiornson, Johan; Baidya, Tara) Value differences using second-order distributions. (English summary) **2005i:91037**
Fan, Zhiping (*with* Jiang, Yanping) A chi-square method for ranking alternatives based on the fuzzy judgement matrix. (English summary) **2005b:91066**
Fargier, Hélène (*with* Sabbadin, Régis) Qualitative decision under uncertainty: back to expected utility. (English summary) **2005k:91087**
Fioretti, Guido Evidence theory: a mathematical framework for unpredictable hypotheses. (English summary)
Fukuda, Emikò (*with* Matsuhisa, Takashi; Sasanuma, Hisato) Awareness, belief, and communication reaching consensus. (English summary)
Gajdos, Thibault (*with* Tallon, Jean-Marc; Vergnaud, Jean-Christophe) Decision making with imprecise probabilistic information. (English summary) **2005b:91067**
García Lapresta, José Luis (*with* Rodríguez-Palmero, Carlos) Some algebraic characterizations of preference structures. (English summary) **2005b:91068**
Ghirardato, Paolo (*with* Maccheroni, Fabio; Marinacci, Massimo; Siniscalchi, Marciano) A subjective spin on roulette wheels. (English summary) **2005b:91069**
— (*with* Maccheroni, Fabio; Marinacci, Massimo) Differentiating ambiguity and ambiguity attitude. (English summary) **2005k:91088**
Giang, Phan H. (*with* Shenoy, Prakash P.) Two axiomatic approaches to decision making using possibility theory. (English summary) **2005h:91059**
Gnatīēnko, Grigorīĭ M. *see* **Voloshin, A. F. et al.**
Halpern, Joseph Y. *see* **Chu, Francis C., 2005k:91086**
Hartvigsen, David Representing the strengths and directions of pairwise comparisons. (English summary) **2005g:91066**
Hogarth, Robin M. (*with* Karelaia, Natalia) Ignoring information in binary choice with continuous variables: when is less "more"? (English summary) **2005m:91054**
Hüllermeier, Eyke *see* **Dubois, Didier et al., 2005b:91065**
Jensen, Frank[1] *see* **Madsen, A. L., 2005h:91061**
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Jing, Feng Jie *see* **Yang, Yi Min[1] et al.**
Kadlec, Helena *see* **van Rooij, Iris et al., 2005k:91090**
Karavaev, A. P. Unified stimulation systems. (Russian. Russian summary) **2005f:91044**
Karelaia, Natalia *see* **Hogarth, Robin M., 2005m:91054**
Karni, Edi Additive representations over actions and acts. (English summary) **2005a:91027**
Khoshnevisan, M. (*with* Bhattacharya, Sukanto; Smarandache, Florentin) Utility of choice: an information theoretic approach to investment decision-making. (English summary)
Kim, Iltae *see* **Ryu, Suyeol**
Kleiber, Christian (*with* Krämer, Walter) Efficiency, equity, and generalized Lorenz dominance. (English summary) **2005f:91045**
Krämer, Walter *see* **Kleiber, Christian, 2005f:91045**
(Levi, Isaac) *see* **Sen, Amartya** *and* **Seidenfeld, T.**
Levin, Vitaliĭ Il'ich A continuous logical method for the union of individual preference estimates for an object. (Russian. English and Ukrainian summaries) **2005b:91070**
Li, De Qing (*with* Li, Hong Xing) Analysis of variable weights effect and selection of appropriate state variable weights vector in decision making. (Chinese. English and Chinese summaries)
Li, Deng Feng[1] An approach to fuzzy multiattribute decision making under uncertainty. (English summary) **2005h:91060**
Li, Hong Xing *see* **Li, De Qing**
Lin, Chin-Tsai (*with* Chen, Chie-Bein; Wu, Wen-Hsiang) Generalized form of grey relational grades. (English summary) **2005e:91044**
Luce, R. Duncan Increasing increment generalizations of rank-dependent theories. (English summary) **2005d:91031**
Maccheroni, Fabio *see* **Ghirardato, Paolo et al., 2005b:91069** *and* **2005k:91088**
Machina, Mark J. Almost-objective uncertainty. (English summary) **2005c:91037**
Madsen, A. L. (*with* Jensen, Frank[1]) Solving linear-quadratic conditional Gaussian influence diagrams. (English summary) **2005h:91061**
Majka, Arkadiusz (*with* Wiślicki, Wojciech) Statistical thermodynamics for choice models on graphs. (English summary) **2005k:91089**
Marinacci, Massimo *see* **Ghirardato, Paolo et al., 2005b:91069** *and* **2005k:91088**
Maruyama, Yukihiro Associative sequential decision process. (English summary)
Matsuhisa, Takashi *see* **Fukuda, Emiko et al.**
Meacham, Christopher J. G. (*with* Weisberg, Jonathan) Clark and Shackel on the two-envelope paradox.
— *see also* **Clark, Michael**
Mieszkowicz-Rolka, Alicja (*with* Rolka, Leszek) Studying system properties with rough sets. (English summary) **2005f:91046**
Mitran, Ilie On the maximum probability criteria concerning the sequential decision-making problem. (English summary) **2005a:91028**
Moroz-Podvorchan, I. G. On the peculiarities of establishing influential factors in the investigation of systems of complex organization. (Russian. English summary)
Mucha, Peter J. *see* **Callaghan, Thomas et al.**
Nakamura, Yutaka Trichotomous preferences for gambles. (English summary) **2005i:91038**
Pirlot, Marc *see* **Bouyssou, Denis, 2005b:91062**
Podinovskiĭ, Vladislav V. The problem of estimating importance coefficients as a symmetrical-lexicographic optimization problem. (Russian. Russian summary) **2005i:91039**
Porter, Mason A. *see* **Callaghan, Thomas et al.**
Prade, Henri *see* **Dubois, Didier et al., 2005b:91065**
Qiu, Wanhua *see* **Yang, Jiping, 2005h:91062**
Rana, S. S. (*with* Sharma, Pramod C.; Upadhyay, Samar; Devendra Nath, J.) Fuzzy ordering using root mean square deviation method. (English summary)
Rico, Agnès *see* **Chateauneuf, Alain, 2005m:91053**
Rodríguez-Palmero, Carlos *see* **García Lapresta, José Luis, 2005b:91068**
Rolka, Leszek *see* **Mieszkowicz-Rolka, Alicja, 2005f:91046**
van Rooij, Iris (*with* Stege, Ulrike; Kadlec, Helena) Sources of complexity in subset choice. (English summary) **2005k:91090**
Ryu, Suyeol (*with* Kim, Iltae) Left-side strong increases in risk and their comparative statics. (English summary)
Sabbadin, Régis *see* **Fargier, Hélène, 2005k:91087**
Samokhvalov, Yu. Ya. A group account of the relative superiority of alternatives in decision-making problems. (Russian. English and Ukrainian summaries) **2005e:91045**
Sapir, Luba Comparison of the polar decision rules for various types of distributions. (English summary) **2005g:91067**
Sasanuma, Hisato *see* **Fukuda, Emiko et al.**
Seidenfeld, T. A contrast between two decision rules for use with (convex) sets of probabilities: Γ-maximin versus E-admissibility.
Sen, Amartya Incompleteness and reasoned choice.
Shackel, Nicholas *see* **Meacham, Christopher J. G.** *and* **Clark, Michael**
Sharma, Pramod C. *see* **Rana, S. S. et al.**
Sheen, J. N. Fuzzy evaluation of cogeneration alternatives in a petrochemical industry. (English summary)
Shen, Jun Yi *see* **Xu, Jiu Cheng**
Shenoy, Prakash P. *see* **Giang, Phan H., 2005h:91059**
Siniscalchi, Marciano *see* **Ghirardato, Paolo et al., 2005b:91069**
Smarandache, Florentin *see* **Khoshnevisan, M. et al.**
Sorger, Gerhard Consistent planning under quasi-geometric discounting. (English summary) **2005f:91047**
Søvik, Ylva *see* **Asheim, Geir B., 2005k:91085**
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Upadhyay, Samar *see* **Rana, S. S. et al.**
Vergnaud, Jean-Christophe *see* **Gajdos, Thibault et al., 2005b:91067**
Voloshin, A. F. (*with* Gnatīēnko, Grigorīĭ M.; Drobot, E. V.) A method for the indirect determination of intervals of weight coefficients of parameters for metrized relations between objects. (Russian. English, Russian and Ukrainian summaries)
Wakker, Peter P. Decision-foundations for properties of nonadditive measures: general state spaces or general outcome spaces. (English summary) **2005g:91068**
Wang, Xu Zhu A note on congruence conditions of fuzzy choice functions. (English summary) **2005d:91032**
Weisberg, Jonathan *see* **Meacham, Christopher J. G.** *and* **Clark, Michael**
Wiślicki, Wojciech *see* **Majka, Arkadiusz, 2005k:91089**
Wozniak, Michal Application of the confidence measure in knowledge acquisition process. (English summary) (*see* **2005g:00014**)
Wu, Wen-Hsiang *see* **Lin, Chin-Tsai et al., 2005e:91044**
Wu, Ying Yu *see* **Xu, Ze Shui et al.**
Xu, Jiu Cheng (*with* Shen, Jun Yi) Analysis of rough set theory on decision subdivision. (Chinese. English and Chinese summaries)
Xu, Ze Shui On compatibility of interval fuzzy preference relations. (English summary) **2005g:91069**
— (*with* Wu, Ying Yu; Da, Qing Li) An improved normalizing rank aggregation method for priorities. (Chinese. English and Chinese summaries)
Yang, Jiping (*with* Qiu, Wanhua) A measure of risk and a decision-making model based on expected utility and entropy. (English summary) **2005h:91062**
Yang, Xu Bing *see* **Yang, Yi Min[1] et al.**
Yang, Yi Min[1] (*with* Yang, Xu Bing; Jing, Feng Jie) Judgment and correction of global consistency in AHP. (Chinese. English and Chinese summaries)
Yao, Jing-Shing (*with* Yu, Ming-Miin) Decision making based on statistical data, signed distance and compositional rule of inference. (English summary)
Yu, Ming-Miin *see* **Yao, Jing-Shing**

Items with secondary classifications in 91B06

Amarante, Massimiliano On the uniqueness of convex-ranged probabilities. **2005d:60021**
Arai, Noriko (*with* Pitassi, Toniann; Urquhart, Alasdair) The complexity of analytic tableaux. (English summary) (*see* **2005j:68008**)
Augustin, Thomas[1] Optimal decisions under complex uncertainty—basic notions and a general algorithm for data-based decision making with partial prior knowledge described by interval probability. (English summary)
Beauzamy, Bernard *see* **Decugis, Vincent, 2005j:70005**
Bell, David Andrew Weighing evidence in decision systems. (English summary)
Ben Abdelaziz, Foued (*with* Krichen, S.) An interactive method for the optimal selection problem with two decision makers. (English summary)
Berend, Daniel (*with* Sapir, Luba) Monotonicity in Condorcet jury theorem. (English summary) **2005m:91056**
Berman, David R. (*with* McLaurin, Sandra C.; Smith, Douglas D.) Ranking whist players. (English summary) **2005a:05048**
Béziau, Jean-Yves *see* **Suppes, Patrick**
Boman, Magnus *see* **Odelstad, Jan, 2005i:91029**
Boussaïri, Abderrahim (*with* Ille, Pierre; Lopez, Gérard; Thomassé, Stéphan) The C_3-structure of the tournaments. (English summary) **2005h:05090**
Boutilier, Craig (*with* Brafman, Ronen I.; Domshlak, Carmel; Hoos, Holger H.; Poole, David Lynton) CP-nets: a tool for representing and reasoning with conditional ceteris paribus preference statements. (English summary) **2005j:68103**
Bouyssou, Denis (*with* Pirlot, Marc) Preferences for multi-attributed alternatives: traces, dominance, and numerical representations. (English summary) **2005j:91021**
— (*with* Pirlot, Marc) 'Additive difference' models without additivity and subtractivity. (English summary) **2005c:91105**
— Monotonicity of 'ranking by choosing': a progress report. (English summary) **2005g:91073**

Brafman, Ronen I. *see* **Boutilier, Craig et al., 2005j:68103**
Brânzei, Rodica (*with* Dimitrov, Dinko; Pickl, Stefan Wolfgang; Tijs, S. H.) How to cope with division problems under interval uncertainty of claims? (English summary) **2005e:91107**
Bufardi, Ahmed *see* **Gheorghe, Razvan et al., 2005m:03108**
Callard, Robin *see* **Yates, Andrew James et al.**
Canfora, G. (*with* Troiano, L.) A model for opinion agreement and confidence in multi-expert multi-criteria decision making. (English summary) **2005k:90056**
Cao, Yue *see* **Qing, Ming et al.**
Caputo, Michael R. ★ Foundations of dynamic economic analysis. **2005j:91001**
Chateauneuf, Alain (*with* Rébillé, Yann) Some characterizations of non-additive multi-period models. (English summary) **2005f:91097**
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Chen, Zhao Jiong *see* **Ye, Dong Yi**
Chi, Zhong Xian *see* **Yan, De Qin et al.**
Clempner, Julio Optimizing the decision process on Petri nets via a Lyapunov-like function. (English summary)
Damgård, Ivan Bjerre (*with* Groth, Jens) Non-interactive and reusable non-malleable commitment schemes. (English summary) **2005k:94029**
Dastani, Mehdi (*with* Hulstijn, Joris; van der Torre, Leendert) How to decide what to do? (English summary) **2005e:68220**
Decugis, Vincent (*with* Beauzamy, Bernard) Convergence of a reactive planning algorithm. (English summary) **2005j:70005**
Dimitrov, Dinko *see* **Brânzei, Rodica et al., 2005e:91107**
Dompere, Kofi Kissi ★ Cost-benefit analysis and the theory of fuzzy decisions.
Domshlak, Carmel *see* **Boutilier, Craig et al., 2005j:68103**
(Donets, V. M.) *see* **Kolbin, Vyacheslav Viktorovich, 2005e:91001**
van den Driessche, P. *see* **Elsner, Ludwig, 2005b:15015**
Eichberger, Jürgen (*with* Kelsey, David) Sequential two-player games with ambiguity. (English summary) **2005g:91011**
Eichner, Thomas (*with* Wagener, Andreas) Relative risk aversion, relative prudence and comparative statics under uncertainty: the case of (μ, σ)-preferences. (English summary) **2005f:91084**
Elsner, Ludwig (*with* van den Driessche, P.) Max-algebra and pairwise comparison matrices. (English summary) **2005b:15015**
Enns, E. G. Optimal sequential decisions with information invariance. (English summary)
(Everett, Anthony) *see* **Syverson, Paul, 2005j:03001**
Fang, Yong (*with* Lai, Kin Keung; Wang, Shou Yang) A fuzzy approach to portfolio rebalancing with transaction costs. (English summary) **2005d:91048**
Fenner, Trevor *see* **Flaxman, Abraham D. et al., 2005e:05124**
Flaxman, Abraham D. (*with* Frieze, Alan; Fenner, Trevor) High degree vertices and eigenvalues in the preferential attachment graph. (English summary) **2005e:05124**
Freund, Michael[2] Revising preferences and choices. (English summary) **2005m:03034**
Frieze, Alan *see* **Flaxman, Abraham D. et al., 2005e:05124**
Gaertner, Wulf (*with* Xu, Yongsheng) Procedural choice. (English summary) **2005k:91105**
García Lapresta, José Luis (*with* Meneses, Luis Carlos) Individual-valued preferences and their aggregation: consistency analysis in a real case. (English summary) **2005k:91091**
Gheorghe, Razvan (*with* Bufardi, Ahmed; Xirouchakis, Paul) Construction of global fuzzy preference structures from two-parameter single-criterion fuzzy outranking relations. (English summary) **2005m:03108**
Ghiselli Ricci, Roberto Finitely and absolutely non idempotent aggregation operators. (English summary)
Gilboa, Itzhak (*with* Schmeidler, David) Subjective distributions. (English summary) **2005k:60009**
Girotto, Bruno (*with* Holzer, Silvano) Representing complete and incomplete subjective linear preferences on random numbers. (English summary) **2005k:62012**
Glazer, Jacob (*with* Rubinstein, Ariel) On optimal rules of persuasion. (English summary) **2005e:91036**
Golubtsov, P. V. (*with* Moskalyuk, S. S.) Fuzzy logic, informativeness and Bayesian decision-making problems. (English summary) **2005g:68162**
Gómez, Manuel Real-world applications of influence diagrams. (English summary)
Greco, Salvatore (*with* Matarazzo, Benedetto; Słowiński, Roman) Axiomatic characterization of a general utility function and its particular cases in terms of conjoint measurement and rough-set decision rules. (English summary) **2005a:91035**
Groth, Jens *see* **Damgård, Ivan Bjerre, 2005k:94029**
Gul, Faruk (*with* Pesendorfer, Wolfgang) The revealed preference theory of changing tastes. (English summary) **2005k:91092**
Haberman, Steven (*with* Sung, Joo-Ho) Optimal pension funding dynamics over infinite control horizon when stochastic rates of return are stationary. (English summary) **2005k:91184**
Hertel, Alex *see* **Stege, Ulrike et al., (2005b:68004)**
Hertel, Philipp *see* **Stege, Ulrike et al., (2005b:68004)**
Hild, Matthias The instability of robust aggregation. (English summary) **2005e:91051**
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Hulstijn, Joris *see* **Dastani, Mehdi et al., 2005e:68220**
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Joshi, Pradeep K. (*with* Sharma, Pramod C.; Upadhyay, Samar; Sharma, Sourabh) Multi objective fuzzy decision making approach for selection of type of caisson for bridge foundation. (English summary) **2005k:90135**
Jouini, Elyès (*with* Napp, Clotilde) Conditional comonotonicity. (English summary) **2005f:60015**
(Kajii, Atsushi) *see* **Rothschild, Casey G., 2005k:91073**
Karni, Edi Subjective expected utility theory with costly actions. (English summary) **2005g:91079**
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Kolbin, Vyacheslav Viktorovich ★ Decision making and programming. **2005e:91001**
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Kwiesielewicz, Mirosław (*with* van Uden, Ewa) Ranking decision variants by subjective paired comparisons in cases with incomplete data. (English summary) (*see* **2005i:00014**)
Lafage, Céline (*with* Lang, Jérôme) Propositional distances and compact preference representation. (English summary) **2005c:68248**
Lai, Kin Keung *see* **Fang, Yong et al., 2005d:91048**
Lang, Jérôme *see* **Lafage, Céline, 2005c:68248**
Langtry, Bruce The classical and maximin versions of the two-envelope paradox. (English summary) **2005f:03005**
Lee, Cassey Emergence and universal computation. (English summary) **2005c:68048**
Leung, Yee *see* **Li, Deyu[1] et al., 2005f:68142**
Levin, Dan (*with* Ozdenoren, Emre) Auctions with uncertain numbers of bidders. (English summary) **2005f:91058**
Li, Deyu[1] (*with* Zhang, Bo[2]; Leung, Yee) On knowledge reduction in inconsistent decision information systems. (English summary) **2005f:68142**
Lin, Chin-Tsai *see* **Tzeng, Gwo-Hshiung et al.**
List, Christian The probability of inconsistencies in complex collective decisions. (English summary) **2005m:91058**
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Maniquet, François On the equivalence between welfarism and equality of opportunity. (English summary) **2005b:91146**
Manski, Charles F. Social learning from private experiences: the dynamics of the selection problem. (English summary) **2005g:91054**
Marichal, Jean Luc Tolerant or intolerant character of interacting criteria in aggregation by the Choquet integral. (English summary) **2005b:28003**
Massó, Jordi (*with* Neme, Alejandro) A maximal domain of preferences for strategy-proof, efficient, and simple rules in the division problem. (English summary) **2005c:91075**
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McLaurin, Sandra C. *see* **Berman, David R. et al., 2005a:05048**
Meneses, Luis Carlos *see* **García Lapresta, José Luis, 2005k:91091**
Mészáros, Csaba (*with* Rapcsák, Tamás) A remark on: "Strict preference and sensitivity analysis in additive utility functions with interval data" [CEJOR Cent. Eur. J. Oper. Res. **12** (2004), no. 3, 233–249; MR2085395 (2005d:90111)] by R. Vetschera. (English summary)
Mitchell, Harvey Barnett An intuitionistic OWA operator. (English summary) **2005i:03062**
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Moscarini, Giuseppe Limited information capacity as a source of inertia. (English summary) **2005b:91187**
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Napp, Clotilde *see* **Jouini, Elyès, 2005f:60015**
Neme, Alejandro *see* **Massó, Jordi, 2005c:91075**
Ngo The, An (*with* Tsoukiàs, Alexis) Numerical representation of *PQI* interval orders. (English summary) **2005k:06003**
Nielsen, Thomas D. (*with* Jensen, Finn V.) Advances in decision graphs. (English summary)
Odelstad, Jan (*with* Boman, Magnus) Algebras for agent norm-regulation. (English summary) **2005i:91029**
Ou Yang, Yu-Ping *see* **Tzeng, Gwo-Hshiung et al.**
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Pedrycz, Witold *see* **Stach, Wojciech et al.**
Peldschus, Friedel (*with* Zavadskas, Edmundas Kazimieras) Fuzzy matrix games multi-criteria model for decision-making in engineering. (English and Lithuanian summaries)
Pesendorfer, Wolfgang *see* **Gul, Faruk, 2005k:91092**
Pickl, Stefan Wolfgang *see* **Brânzei, Rodica et al., 2005e:91107**
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Pitassi, Toniann *see* **Arai, Noriko et al., (2005j:68008)**
Podinovskiĭ, Vladislav V. Analysis of decisions under multiple estimates for the importance coefficients of criteria and for the probabilities of the values of uncertain factors in the objective function. (Russian. Russian summary)
Poole, David Lynton *see* **Boutilier, Craig et al., 2005j:68103**
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Punkka, Antti *see* **Salo, Ahti, 2005g:90130**
Qing, Ming (*with* Cao, Yue; Huang, Tian-min) Fuzzy entropy: axiomatic definition and neural networks model. (English summary)
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Rébillé, Yann *see* **Chateauneuf, Alain, 2005f:91097**
Redmond, Charles A natural generalization of the win-loss rating system.
Reformat, Marek *see* **Stach, Wojciech et al.**
van Rooij, Iris *see* **Stege, Ulrike et al., (2005b:68004)**
Rothschild, Casey G. Comment: "Payoff continuity in incomplete information games" [J. Econom. Theory **82** (1998), no. 1, 267–276; MR1658694 (99k:90230)] by A. Kajii and S. Morris. (English summary) **2005k:91073**
Rubinstein, Ariel *see* **Glazer, Jacob, 2005e:91036**
Salo, Ahti (*with* Punkka, Antti) Rank inclusion in criteria hierarchies. (English summary) **2005g:90130**
Sapir, Luba Generalized means of jurors' competencies and marginal changes of jury's size. (English summary) **2005k:91103**
— *see also* **Berend, Daniel, 2005m:91056**
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Sharma, Sourabh *see* **Joshi, Pradeep K. et al., 2005k:90135**
Sholomov, L. A. Logical methods for investigating relations in criterial spaces with order scales of arbitrary type. (Russian. Russian summary) **2005g:90132**
(Silberberg, Eugene) *see* **Caputo, Michael R., 2005j:91001**
Skiadas, Costis Robust control and recursive utility. (English summary) **2005e:91052**

Słowiński, Roman *see* **Greco, Salvatore et al., 2005a:91035**
Smith, David K.[1] Decision making and card collecting. (English summary)
Smith, Douglas D. *see* **Berman, David R. et al., 2005a:05048**
Smolyak, S. A. Optimality criteria for investment projects under uncertainty. (English summary) (*see* **2005c:90002**)
Stach, Wojciech (*with* Kurgan, Lukasz; Pedrycz, Witold; Reformat, Marek) Genetic learning of fuzzy cognitive maps. (English summary)
Stark, Jaroslav *see* **Yates, Andrew James et al.**
Stege, Ulrike (*with* van Rooij, Iris; Hertel, Alex; Hertel, Philipp) An $O(pn + 1.151^p)$-algorithm for p-profit cover and its practical implications for vertex cover. (English summary) (*see* **2005b:68004**)
Sung, Joo-Ho *see* **Haberman, Steven, 2005k:91184**
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Syverson, Paul ★ Logic, convention, and common knowledge. **2005j:03001**
Taji, Kouichi (*with* Suzuki, Junsuke; Takahashi, Satoru[2]; Tamura, Hiroyuki[1]) Experimental analysis for rational decision making by aspiration level AHP. (English summary) **2005e:90052**
Takahashi, Satoru[2] *see* **Taji, Kouichi et al., 2005e:90052**
Tamura, Hiroyuki[1] *see* **Taji, Kouichi et al., 2005e:90052**
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— Axioms for preferences revealing subjective uncertainty and uncertainty aversion. (English summary) **2005f:91055**
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Tijs, S. H. *see* **Brânzei, Rodica et al., 2005e:91107**
Tkachenko, Alexandra I. The DEA-models in the efficiency and productivity analysis of Moldavian economy. (English summary)
Tohmé, Fernando A. Existence and definability of states of the world. (English summary) **2005i:03020**
van der Torre, Leendert *see* **Dastani, Mehdi et al., 2005e:68220**
Troiano, L. *see* **Canfora, G., 2005k:90056**
Tsao, Chung-Tsen An extension to benefit/cost based fuzzy MCDM algorithm. (English summary)
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Tzeng, Gwo-Hshiung (*with* Ou Yang, Yu-Ping; Lin, Chin-Tsai; Chen, Chie-Bein) Hierarchical MADM with fuzzy integral for evaluating enterprise intranet web sites. (English summary)
van Uden, Ewa *see* **Kwiesielewicz, Miroslaw, (2005i:00014)**
Upadhyay, Samar *see* **Joshi, Pradeep K. et al., 2005k:90135**
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— *see also* **Mészáros, Csaba**
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Wang, Chih-Chun (*with* Kulkarni, Sanjeev R.; Poor, H. Vincent) Bandit problems with side observations. (English summary) **2005k:62015**
Wang, Liya (*with* Syau, Yu-Ru) Fuzzy φ-convexity and fuzzy decision making. (English summary) **2005d:90060**
Wang, Shou Yang *see* **Fang, Yong et al., 2005d:91048**
Wang, Ying-Ming (*with* Yang, Jian-Bo; Xu, Dong-Ling) A two-stage logarithmic goal programming method for generating weights from interval comparison matrices. (English summary)
— (*with* Parkan, Celik) Multiple attribute decision making based on fuzzy preference information on alternatives: ranking and weighting. (English summary) **2005m:03115**
Weirich, Paul ★ Realistic decision theory. **2005h:91002**
Xirouchakis, Paul *see* **Gheorghe, Razvan et al., 2005m:03108**
Xu, Dong-Ling *see* **Wang, Ying-Ming et al.**
Xu, Li Mei (*with* Zeng, Lin Rui) The expected value of sampling information for a linear decision problem on two actions under the Γ-P model. (Chinese. English and Chinese summaries) **2005g:90067**
Xu, Yongsheng *see* **Gaertner, Wulf, 2005k:91105**
Xu, Ze Shui A method based on linguistic aggregation operators for group decision making with linguistic preference relations. (English summary)
— EOWA and EOWG operators for aggregating linguistic labels based on linguistic preference relations. (English summary)
— A method based on fuzzy linguistic assessments and the GIOWA operator in multi-attribute group decision making. (Chinese. English and Chinese summaries) **2005a:91107**
— On method for uncertain multiple attribute decision making problems with uncertain multiplicative preference information on alternatives. (English summary)
Yager, Ronald R. Monitored heavy fuzzy measures and their role in decision making under uncertainty. (English summary) **2005b:28028**
— On the determination of strength of belief for decision support under uncertainty. I. Generating strengths of belief. (English summary) **2005e:68229**
— On the determination of strength of belief for decision support under uncertainty. II. Fusing strengths of belief. (English summary) **2005e:68230**
Yan, De Qin (*with* Chi, Zhong Xian; Zhang, Min) A new algorithm for the core of an information system. (Chinese. English and Chinese summaries)
Yang, Jian-Bo *see* **Wang, Ying-Ming et al.**
Yates, Andrew James (*with* Callard, Robin; Stark, Jaroslav) Combining cytokine signalling with T-bet and GATA-3 regulation in Th1 and Th2 differentiation: a model for cellular decision-making. (English summary)
Ye, Dong Yi (*with* Chen, Zhao Jiong) A discernibility matrix based attribute reduction algorithm for inconsistent decision tables. (Chinese. English and Chinese summaries)
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Zhang, Min *see* **Yan, De Qin et al.**

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Arlegi, R. (*with* Besada Morais, M.; Nieto, Jorge; Vázquez Cendón, C.) Freedom of choice: the leximax criterion in the infinite case. (English summary) **2005i:91040**
Asheim, Geir B. (*with* Tungodden, Bertil) Resolving distributional conflicts between generations. (English summary) **2005a:91029**
Besada Morais, M. *see* **Arlegi, R. et al., 2005i:91040**
Bouyssou, Denis (*with* Pirlot, Marc) Preferences for multi-attributed alternatives: traces, dominance, and numerical representations. (English summary) **2005j:91021**
Chambers, Robert G. (*with* Quiggin, John) Linear-risk-tolerant, invariant risk preferences. (English summary) **2005m:91055**
— *see also* **Quiggin, John, 2005a:91030**
Dimitrov, Dinko The Paretian liberal with intuitionistic fuzzy preferences: a result. (English summary) **2005e:91046**
García Lapresta, José Luis (*with* Meneses, Luis Carlos) Individual-valued preferences and their aggregation: consistency analysis in a real case. (English summary) **2005k:91091**
Georgescu, Irina Consistency conditions in fuzzy consumers theory. (English summary) **2005f:91048**
Gul, Faruk (*with* Pesendorfer, Wolfgang) The revealed preference theory of changing tastes. (English summary) **2005k:91092**
Kwiesielewicz, Miroslaw (*with* van Uden, Ewa) Ranking decision variants by subjective paired comparisons in cases with incomplete data. (English summary) (*see* **2005i:00014**)
Meneses, Luis Carlos *see* **García Lapresta, José Luis, 2005k:91091**
Nieto, Jorge *see* **Arlegi, R. et al., 2005i:91040**
Pesendorfer, Wolfgang *see* **Gul, Faruk, 2005k:91092**
Pirlot, Marc *see* **Bouyssou, Denis, 2005j:91021**
Quiggin, John (*with* Chambers, Robert G.) Invariant risk attitudes. (English summary) **2005a:91030**
— *see also* **Chambers, Robert G., 2005m:91055**
Tungodden, Bertil *see* **Asheim, Geir B., 2005a:91029**
van Uden, Ewa *see* **Kwiesielewicz, Miroslaw, (2005i:00014)**
Vázquez Cendón, C. *see* **Arlegi, R. et al., 2005i:91040**
Von Auer, Ludwig Revealed preferences in intertemporal decision making. (English summary) **2005h:91063**

Items with secondary classifications in 91B08

Abbas, Ali E. An information theory for preferences. (English summary) (*see* **2005c:62004**)
de Baets, Bernard (*with* De Meyer, Hans) Transitivity frameworks for reciprocal relations: cycle-transitivity versus FG-transitivity. (English summary) **2005m:03104**
— *see also* **Díaz, Susana et al., 2005b:03121**
Balasko, Yves The equilibrium manifold keeps the memory of individual demand functions. (English summary) **2005g:91135**
Barzilai, Jonathan Measurement and preference function modelling. (English summary) **2005i:91036**
Bosi, Gianni Expected utility with pseudotransitive preferences. (English summary) **2005f:91053**
Bossert, Walter (*with* Sprumont, Yves) Efficient and non-deteriorating choice. (English summary) **2005d:91037**
Boutilier, Craig (*with* Brafman, Ronen I.; Domshlak, Carmel; Hoos, Holger H.; Poole, David Lynton) CP-nets: a tool for representing and reasoning with conditional ceteris paribus preference statements. (English summary) **2005j:68103**
Bouyssou, Denis (*with* Pirlot, Marc) 'Additive difference' models without additivity and subtractivity. (English summary) **2005c:91105**
Brafman, Ronen I. *see* **Boutilier, Craig et al., 2005j:68103**
Cantala, David Choosing the level of a public good when agents have an outside option. (English summary) **2005a:91033**
Danilov, Vladimir Ivanovich[1] Existence of stable matchings in some three-sided systems. (English summary) **2005b:91175**
De Meyer, Hans *see* **de Baets, Bernard, 2005m:03104**
Devendra Nath, J. *see* **Rana, S. S. et al.**
Díaz, Susana (*with* Montes Rodríguez, Susana; de Baets, Bernard) Transitive decomposition of fuzzy preference relations: the case of nilpotent minimum. (English summary) **2005b:03121**
Domshlak, Carmel *see* **Boutilier, Craig et al., 2005j:68103**
Eichberger, Jürgen (*with* Grant, Simon; Kelsey, David) CEU preferences and dynamic consistency. (English summary) **2005i:91044**
Eliaz, Kfir Social aggregators. (English summary) **2005c:91042**
García Lapresta, José Luis (*with* Rodríguez-Palmero, Carlos) Some algebraic characterizations of preference structures. (English summary) **2005b:91068**
George, Mary (*with* Thomaskutty, P. G.) Study of welfare—a fuzzy approach. (English summary) **2005g:91077**
Ghirardato, Paolo (*with* Maccheroni, Fabio; Marinacci, Massimo; Siniscalchi, Marciano) A subjective spin on roulette wheels. (English summary) **2005b:91069**
Grant, Simon *see* **Eichberger, Jürgen et al., 2005i:91044**
Hoos, Holger H. *see* **Boutilier, Craig et al., 2005j:68103**
Kelsey, David *see* **Eichberger, Jürgen et al., 2005i:91044**
Lafage, Céline (*with* Lang, Jérôme) Propositional distances and compact preference representation. (English summary) **2005c:68248**
Lang, Jérôme *see* **Lafage, Céline, 2005c:68248**
Llamazares, Bonifacio Simple and absolute special majorities generated by OWA operators. (English summary) **2005a:03106**
Maccheroni, Fabio *see* **Ghirardato, Paolo et al., 2005b:91069**
Mandler, Michael Incomplete preferences and rational intransitivity of choice. (English summary) **2005i:91045**
Marinacci, Massimo *see* **Ghirardato, Paolo et al., 2005b:91069**
Masatlioglu, Yusufcan (*with* Ok, Efe A.) Rational choice with status quo bias. (English summary) **2005k:91196**

Massó, Jordi (*with* Neme, Alejandro) A maximal domain of preferences for strategy-proof, efficient, and simple rules in the division problem. (English summary) **2005c:91075**
Montes Rodríguez, Susana *see* **Díaz, Susana et al., 2005b:03121**
Nakamura, Yutaka Trichotomous preferences for gambles. (English summary) **2005i:91038**
Neme, Alejandro *see* **Massó, Jordi, 2005c:91075**
Ngo The, An (*with* Tsoukiàs, Alexis) Numerical representation of *PQI* interval orders. (English summary) **2005k:06003**
Ok, Efe A. *see* **Masatlioglu, Yusufcan, 2005k:91196**
Pirlot, Marc *see* **Bouyssou, Denis, 2005c:91105**
Poole, David Lynton *see* **Boutilier, Craig et al., 2005j:68103**
Rana, S. S. (*with* Sharma, Pramod C.; Upadhyay, Samar; Devendra Nath, J.) Fuzzy ordering using root mean square deviation method. (English summary)
Rodríguez-Palmero, Carlos *see* **García Lapresta, José Luis, 2005b:91068**
Sharma, Pramod C. *see* **Rana, S. S. et al.**
Siniscalchi, Marciano *see* **Ghirardato, Paolo et al., 2005b:91069**
Sorger, Gerhard Consistent planning under quasi-geometric discounting. (English summary) **2005f:91047**
Sprumont, Yves *see* **Bossert, Walter, 2005d:91037**
Tapking, Jens Axioms for preferences revealing subjective uncertainty and uncertainty aversion. (English summary) **2005f:91055**
Thomaskutty, P. G. *see* **George, Mary, 2005g:91077**
Tsoukiàs, Alexis *see* **Ngo The, An, 2005k:06003**
Upadhyay, Samar *see* **Rana, S. S. et al.**
Vieille, Nicolas Random walks and voting theory. (English summary) **2005d:91036**
Wang, Hsiao-Fan (*with* Wu, Kuang-Yao) Preference approach to fuzzy linear inequalities and optimizations. (English summary) **2005j:90116**
Wu, Kuang-Yao *see* **Wang, Hsiao-Fan, 2005j:90116**
Xu, Ze Shui A method based on fuzzy linguistic assessments and the GIOWA operator in multi-attribute group decision making. (Chinese. English and Chinese summaries) **2005a:91107**

91B10 Group preferences

Bradley, W. James (*with* Hodge, Jonathan K.; Kilgour, D. Marc) Separable discrete preferences. (English summary) **2005k:91093**
Hild, Matthias A note on impossibility theorems and seniority rules. (English summary) **2005h:91064**
Hodge, Jonathan K. *see* **Bradley, W. James et al., 2005k:91093**
Kilgour, D. Marc *see* **Bradley, W. James et al., 2005k:91093**
Lang, Jérôme Logical preference representation and combinatorial vote. (English summary) **2005j:91022**

Items with secondary classifications in 91B10

Angilella, Silvia (*with* Greco, Salvatore; Lamantia, Fabio; Matarazzo, Benedetto) Assessing non-additive utility for multicriteria decision aid. (English summary) **2005b:90112**
Asheim, Geir B. (*with* Tungodden, Bertil) Resolving distributional conflicts between generations. (English summary) **2005a:91029**
Bossert, Walter (*with* Sprumont, Yves) Efficient and non-deteriorating choice. (English summary) **2005d:91037**
Bufardi, Ahmed *see* **Gheorghe, Razvan et al., 2005m:03108**
de Carvalho, Francisco de A. T. *see* **Queiroz, Sérgio R. de M., (2005i:62003)**
Cheng, Chi-Bin Group opinion aggregation based on a grading process: a method for constructing triangular fuzzy numbers. (English summary)
Eliaz, Kfir Social aggregators. (English summary) **2005c:91042**
Gheorghe, Razvan (*with* Bufardi, Ahmed; Xirouchakis, Paul) Construction of global fuzzy preference structures from two-parameter single-criterion fuzzy outranking relations. (English summary) **2005m:03108**
Greco, Salvatore (*with* Matarazzo, Benedetto; Słowiński, Roman) Axiomatic characterization of a general utility function and its particular cases in terms of conjoint measurement and rough-set decision rules. (English summary) **2005a:91035**
— *see also* **Angilella, Silvia et al., 2005b:90112**
Hild, Matthias The instability of robust aggregation. (English summary) **2005e:91051**
Iqbal, Azhar Quantum correlations and Nash equilibria of a bi-matrix game. (English summary) **2005d:81108**
Lamantia, Fabio *see* **Angilella, Silvia et al., 2005b:90112**
Liu, Hai Long[1] (*with* Zheng, Li Hui; Wu, Chong Feng) A system approach to the modeling of investors' collective behavior. (Chinese. English and Chinese summaries)
Llamazares, Bonifacio Simple and absolute special majorities generated by OWA operators. (English summary) **2005a:03106**
Masatlioglu, Yusufcan (*with* Ok, Efe A.) Rational choice with status quo bias. (English summary) **2005k:91196**
Matarazzo, Benedetto *see* **Greco, Salvatore et al., 2005a:91035** *and* **Angilella, Silvia et al., 2005b:90112**
Ok, Efe A. *see* **Masatlioglu, Yusufcan, 2005k:91196**
Queiroz, Sérgio R. de M. (*with* de Carvalho, Francisco de A. T.) A symbolic model-based approach for making collaborative group recommendations. (English summary) (*see* **2005i:62003**)
Sapir, Luba Comparison of the polar decision rules for various types of distributions. (English summary) **2005g:91067**
— Generalized means of jurors' competencies and marginal changes of jury's size. (English summary) **2005k:91103**
Słowiński, Roman *see* **Greco, Salvatore et al., 2005a:91035**
Sprumont, Yves *see* **Bossert, Walter, 2005d:91037**
Sutter, Matthias Are four heads better than two? An experimental beauty-contest game with teams of different size. (English summary)
Tungodden, Bertil *see* **Asheim, Geir B., 2005a:91029**
Vieille, Nicolas Random walks and voting theory. (English summary) **2005d:91036**
Wang, Ying-Ming (*with* Yang, Jian-Bo; Xu, Dong-Ling) A two-stage logarithmic goal programming method for generating weights from interval comparison matrices. (English summary)
Wu, Chong Feng *see* **Liu, Hai Long[1] et al.**
Xirouchakis, Paul *see* **Gheorghe, Razvan et al., 2005m:03108**
Xu, Dong-Ling *see* **Wang, Ying-Ming et al.**
Xu, Ze Shui On compatibility of interval fuzzy preference relations. (English summary) **2005g:91069**
— EOWA and EOWG operators for aggregating linguistic labels based on linguistic preference relations. (English summary)
Yang, Jian-Bo *see* **Wang, Ying-Ming et al.**
Zheng, Li Hui *see* **Liu, Hai Long[1] et al.**

91B12 Voting theory

Aitchison, Joyce The mathematics of proportional representation.
Battaglini, Marco Sequential voting with abstention. (English summary) **2005k:91094**
Berend, Daniel (*with* Sapir, Luba) Monotonicity in Condorcet jury theorem. (English summary) **2005m:91056**
Berga, Dolors (*with* Bergantiños, Gustavo; Massó, Jordi; Neme, Alejandro) Stability and voting by committees with exit. (English summary) **2005e:91047**
Bergantiños, Gustavo *see* **Berga, Dolors et al., 2005e:91047**
Chattopadhyay, Raghabendra (*with* Duflo, Esther) Women as policy makers: evidence from a randomized policy experiment in India. (English summary) **2005b:91071**
Chen, Liang[4] (*with* Tokuda, Naoyuki) A general stability analysis on regional and national voting schemes against noise—why is an electoral college more stable than a direct popular election? (English summary) **2005h:91065**
Cooper, Duane A. Spatial analysis of cumulative voting with modeling for dynamical system simulation. (English summary) (*see* **2005i:00016**)
Costa, Andre (*with* Fackrell, Mark; Taylor, Peter G.) Two issues surrounding Parrondo's paradox. (English summary) **2005h:91066**
van Deemen, Adrian *see* **Rusinowska, Agnieszka, (2005j:91002)**
Diffo Lambo, Lawrence (*with* Tchantcho, Bertrand; Moulen, Joël) Pouvoir mesuré et capacité d'un électeur à influencer le résultat du vote. (English and French summaries) [Measured power and capacity of an elector to influence voting results] **2005d:91033**
Dinís, Luis (*with* Parrondo, Juan M. R.) Inefficiency of voting in Parrondo games. (English summary) **2005e:91048**
Drissi-Bakhkhat, Mohamed (*with* Truchon, Michel) Maximum likelihood approach to vote aggregation with variable probabilities. (English summary) **2005c:91038**
Duflo, Esther *see* **Chattopadhyay, Raghabendra, 2005b:91071**
Duggan, John R. (*with* Fey, Mark) Electoral competition with policy-motivated candidates. (English summary) **2005k:91095**
Dutta, Bhaskar (*with* Jackson, Matthew O.; Le Breton, Michel) Equilibrium agenda formation. (English summary) **2005b:91072**
Eckert, Daniel (*with* Klamler, Christian; Mitlöhner, Johann) Condorcet efficiency, information costs, and the performance of scoring rules. (English summary) **2005k:91096**
Ehlers, Lars (*with* Peters, Hans; Storcken, Ton) Threshold strategy-proofness: on manipulability in large voting problems. (English summary) **2005c:91039**
Erasłan, Hülya (*with* McLennan, Andrew) Strategic candidacy for multivalued voting procedures. (English summary) **2005a:91031**
Fackrell, Mark *see* **Costa, Andre et al., 2005h:91066**
Fey, Mark May's theorem with an infinite population. (English summary) **2005e:91049**
— *see also* **Duggan, John R., 2005k:91095**
Foroughi, A. A. (*with* Jones, D. F.; Tamiz, M.) A selection method for a preferential election. (English summary)
Galam, Serge Contrarian deterministic effects on opinion dynamics: "the hung elections scenario". (English summary)
Georgiev, Ivan T. *see* **Mobilia, Mauro, 2005k:91100**
Gersbach, Hans Why one person one vote? (English summary) **2005j:91023**
Gilboa, Itzhak (*with* Vieille, Nicolas) Majority vote following a debate. (English summary) **2005c:91040**
Grofman, Bernard *see* **Regenwetter, Michel et al., 2005m:91059**
Hansen, Jes Winther Uncertainty and the size of government. (English summary) **2005m:91057**
Hodge, Jonathan K. (*with* Klima, Richard E.) ★ The mathematics of voting and elections: a hands-on approach. **2005k:91097**
Jackson, Matthew O. *see* **Dutta, Bhaskar et al., 2005b:91072**
Jones, D. F. *see* **Foroughi, A. A. et al.**
Kalai, Gil Social indeterminacy. (English summary) **2005d:91034**
Khachaĭ, M. Yu. *see* **Mazurov, Vl. D., 2005i:91041**
Klamler, Christian The Dodgson ranking and its relation to Kemeny's method and Slater's rule. (English summary) **2005b:91073**
— *see also* **Eckert, Daniel et al., 2005k:91096**
Klima, Richard E. *see* **Hodge, Jonathan K., 2005k:91097**
Klinz, Bettina (*with* Woeginger, Gerhard J.) Faster algorithms for computing power indices in weighted voting games. (English summary) **2005h:91067**
Laruelle, Annick (*with* Valenciano Llovera, Federico) On the meaning of Owen-Banzhaf coalitional value in voting situations. (English summary) **2005g:91070**
— (*with* Valenciano Llovera, Federico) Assessing success and decisiveness in voting situations. (English summary) **2005k:91098**
Laslier, Jean-François (*with* Van der Straeten, Karine) Electoral competition under imperfect information. (English summary) **2005k:91099**
Le Breton, Michel *see* **Dutta, Bhaskar et al., 2005b:91072**
(Levi, Isaac) *see* **List, Christian, 2005b:91074**
List, Christian On the significance of the absolute margin. (English summary)
— (*with* Pettit, Philip) Aggregating sets of judgments: two impossibility results compared. (English summary) **2005b:91074**
— The probability of inconsistencies in complex collective decisions. (English summary) **2005m:91058**
Marley, A. A. J. *see* **Regenwetter, Michel et al., 2005m:91059**

Massó, Jordi *see* **Berga, Dolors et al., 2005e:91047**
Mazurov, Vl. D. (*with* Khachaĭ, M. Yu.) Committee constructions as a generalization of contradictory problems of operations research. (Russian. Russian summary) **2005i:91041**
McLennan, Andrew *see* **Eraslan, Hülya, 2005a:91031**
Merlin, Vincent (*with* Valognes, Fabrice) The impact of indifferent voters on the likelihood of some voting paradoxes. (English summary) **2005g:91071**
Mitlöhner, Johann *see* **Eckert, Daniel et al., 2005k:91096**
Mobilia, Mauro (*with* Georgiev, Ivan T.) Voting and catalytic processes with inhomogeneities. (English summary) **2005k:91100**
Moulen, Joël *see* **Diffo Lambo, Lawrence et al., 2005d:91033**
Murase, Hideaki The peacock's tail: why is an extremist so sexy? (English summary) **2005c:91041**
Neme, Alejandro *see* **Berga, Dolors et al., 2005e:91047**
Parrondo, Juan M. R. *see* **Dinís, Luis, 2005e:91048**
Patty, John Wiggs Local equilibrium equivalence in probabilistic voting models. (English summary) **2005k:91101**
Persico, Nicola Committee design with endogenous information. (English summary) **2005k:91102**
Peters, Hans *see* **Ehlers, Lars et al., 2005c:91039**
Pettit, Philip *see* **List, Christian, 2005b:91074**
Quas, Anthony Anomalous outcomes in preferential voting. (English summary) **2005f:91049**
Redner, Sidney *see* **Vázquez, Federico[2], 2005d:91035**
Regenwetter, Michel (*with* Marley, A. A. J.; Grofman, Bernard) A general concept of majority rule. (English summary) **2005m:91059**
— (*with* Grofman, Bernard; Marley, A. A. J.) On the model dependence of majority preference relations reconstructed from ballot or survey data. (English summary)
Ritzberger, Klaus Shareholder voting. (English summary)
Rusinowska, Agnieszka (*with* van Deemen, Adrian) The redistribution paradox and the paradox of new members in the German parliament. (*see* **2005j:91002**)
Saari, Donald G. Geometry of chaotic and stable discussions. **2005e:91050**
Sanver, M. Remzi *see* **Sertel, Murat R., 2005k:91104**
Sapir, Luba Generalized means of jurors' competencies and marginal changes of jury's size. (English summary) **2005k:91103**
— *see also* **Berend, Daniel, 2005m:91056**
Sertel, Murat R. (*with* Sanver, M. Remzi) Strong equilibrium outcomes of voting games are the generalized Condorcet winners. (English summary) **2005k:91104**
Sethuraman, Jay (*with* Teo, Chung-Piaw; Vohra, Rakesh V.) Integer programming and Arrovian social welfare functions. (English summary) (*see* **2005a:90006**)
Slinko, Arkadii How large should a coalition be to manipulate an election? (English summary) **2005a:91032**
Storcken, Ton *see* **Ehlers, Lars et al., 2005c:91039**
Tamiz, M. *see* **Foroughi, A. A. et al.**
Taylor, Peter G. *see* **Costa, Andre et al., 2005h:91066**
Tchantcho, Bertrand *see* **Diffo Lambo, Lawrence et al., 2005d:91033**
Teo, Chung-Piaw *see* **Sethuraman, Jay et al., (2005a:90006)**
Tokuda, Naoyuki *see* **Chen, Liang[4], 2005h:91065**
Tolle, John Power distribution in four-player weighted voting systems.
Truchon, Michel *see* **Drissi-Bakhkhat, Mohamed, 2005c:91038**
Valenciano Llovera, Federico *see* **Laruelle, Annick, 2005g:91070** *and* **2005k:91098**
Valognes, Fabrice *see* **Merlin, Vincent, 2005g:91071**
Van der Straeten, Karine *see* **Laslier, Jean-François, 2005k:91099**
Vázquez, Federico[2] (*with* Redner, Sidney) Ultimate fate of constrained voters. (English summary) **2005d:91035**
Vieille, Nicolas Random walks and voting theory. (English summary) **2005d:91036**
— *see also* **Gilboa, Itzhak, 2005c:91040**
Vohra, Rakesh V. *see* **Sethuraman, Jay et al., (2005a:90006)**
Wang, Bing Hong[1] *see* **Xie, Yan Bo et al., 2005b:91075**
Wang, Weining *see* **Xie, Yan Bo et al., 2005b:91075**
Woeginger, Gerhard J. More on the majority rule: profiles, societies, and responsiveness. (English summary) **2005m:91060**
— *see also* **Klinz, Bettina, 2005h:91067**
Xie, Yan Bo (*with* Wang, Bing Hong[1]; Yang, Weisong; Wang, Weining) The mechanism for the self-adaptation behavior in the evolutionary minority game model. (English summary) **2005b:91075**
Yang, Weisong *see* **Xie, Yan Bo et al., 2005b:91075**

Items with secondary classifications in 91B12

Andjiga, Nicolas-Gabriel (*with* Moulen, Joël) Preference aggregation, collective choice and generalized binary constitutions. (English and French summaries) **2005b:91076**
de Baets, Bernard (*with* De Meyer, Hans) Transitivity frameworks for reciprocal relations: cycle-transitivity versus *FG*-transitivity. (English summary) **2005m:03104**
Baigent, Nick (*with* Eckert, Daniel) Abstract aggregations and proximity preservation: an impossibility result. (English summary) **2005g:91072**
Barua, Rana (*with* Chakravarty, Satya R.; Roy, Sonali; Sarkar, Palash) A characterization and some properties of the Banzhaf-Coleman-Dubey-Shapley sensitivity index. (English summary) **2005c:91016**
Boyd, Colin *see* **Lee, Byoungcheon et al., 2005f:94135**
Brams, Steven J. ★ Game theory and politics. **2005f:91001**
Burgos, E. (*with* Ceva, Horacio; Perazzo, R. P. J.) The evolutionary minority game with local coordination. (English summary) **2005d:91015**
Carreras, Francesc On the design of voting games. (English summary) **2005e:91017**
— (*with* Freixas, Josep) A power analysis of linear games with consensus. (English summary) **2005b:91025**
— A decisiveness index for simple games. (English summary) **2005h:91019**
Ceva, Horacio *see* **Burgos, E. et al., 2005d:91015**
Chakravarty, Satya R. *see* **Barua, Rana et al., 2005c:91016**
Chen, Li Hua[2] (*with* Deng, Xiao Tie; Fang, Qi-zhi; Tian, Feng[1]) Majority equilibrium for public facility allocation (preliminary version). (English summary) **2005d:90067**
Chen, Qing[2] (*with* Wang, Yi[5]; Liu, Jin-Tao; Wang, Ke-Lin) N-player quantum minority game. (English summary) **2005g:81074**
Dawson, Edward *see* **Lee, Byoungcheon et al., 2005f:94135**
De Meyer, Hans *see* **de Baets, Bernard, 2005m:03104**
Deng, Xiao Tie *see* **Chen, Li Hua[2] et al., 2005d:90067**
De Sinopoli, Francesco (*with* Iannantuoni, Giovanna) On the generic strategic stability of Nash equilibria if voting is costly. (English summary) **2005h:91010**
Dietrich, Franz (*with* List, Christian) A model of jury decisions where all jurors have the same evidence. (English summary) **2005i:91042**
Do, Norman Mathellaneous.
Doignon, Jean-Paul (*with* Fiorini, Samuel) The facets and the symmetries of the approval-voting polytope. (English summary) **2005d:06003**
Dubey, Pradeep (*with* Einy, Ezra; Haimanko, Ori) Compound voting and the Banzhaf index. (English summary) **2005k:91027**
Eckert, Daniel *see* **Baigent, Nick, 2005g:91072**
Einy, Ezra *see* **Dubey, Pradeep et al., 2005k:91027**
Fang, Qi-zhi *see* **Chen, Li Hua[2] et al., 2005d:90067**
Ferguson, Thomas S. Selection by committee. (English summary) (*see* **2005g:91009**)
Fiorini, Samuel *see* **Doignon, Jean-Paul, 2005d:06003**
Fréchette, Guillaume R. (*with* Kagel, John H.; Morelli, Massimo) Gamson's law versus non-cooperative bargaining theory. (English summary) **2005k:91123**
Freixas, Josep *see* **Carreras, Francesc, 2005b:91025**
Furukawa, Jun Efficient, verifiable shuffle decryption and its requirement of unlinkability. (English summary) (*see* **2005d:94155**)
Gersbach, Hans Dividing resources by flexible majority rules. (English summary) **2005c:91073**
Gomberg, Andrei M. (*with* Marhuenda, Francisco; Ortuño-Ortín, Ignacio) A model of endogenous political party platforms. (English summary) **2005k:91248**
Haimanko, Ori *see* **Dubey, Pradeep et al., 2005k:91027**
Hevia, Alejandro (*with* Kiwi, Marcos) Electronic jury voting protocols. (English summary) **2005f:68059**
Hirst, A. J. *see* **Latif-Shabgahi, G.**
Holler, Manfred J. (*with* Napel, Stefan) Monotonicity of power and power measures. (English summary) **2005g:91032**
Hsiao, Chih-Ru On the asymmetric Shapley value for cooperative games. (English summary) **2005b:91029**
— The power indices for multi-choice multi-valued games. (English summary) **2005h:91021**
Iannantuoni, Giovanna *see* **De Sinopoli, Francesco, 2005h:91010**
Kagel, John H. *see* **Fréchette, Guillaume R. et al., 2005k:91123**
Kalandrakis, Tasos Equilibria in sequential bargaining games as solutions to systems of equations. (English summary) **2005d:91005**
Karagiannopoulos, M. G. (*with* Vrahatis, M. N.; Meletiou, G. C.) A note on a secure voting system on a public network. (English summary) **2005a:90025**
Kim, Kwangjo *see* **Lee, Byoungcheon et al., 2005f:94135**
Kiwi, Marcos *see* **Hevia, Alejandro, 2005f:68059**
Lang, Jérôme Logical preference representation and combinatorial vote. (English summary) **2005j:91022**
Latif-Shabgahi, G. (*with* Hirst, A. J.) A fuzzy voting scheme for hardware and software fault tolerant systems. (English summary)
Lee, Byoungcheon (*with* Boyd, Colin; Dawson, Edward; Kim, Kwangjo; Yang, Jeongmo; Yoo, Seungjae) Providing receipt-freeness in mixnet-based voting protocols. (English summary) **2005f:94135**
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Meirowitz, Adam Polling games and information revelation in the Downsian framework. (English summary) **2005m:91010**
Meletiou, G. C. *see* **Karagiannopoulos, M. G. et al., 2005a:90025**
Mihara, H. Reiju Nonanonymity and sensitivity of computable simple games. (English summary) **2005e:91020**
Miroiu, Adrian Characterizing majority rule: from profiles to societies. (English summary) **2005e:91133**
Monjardet, Bernard De Condorcet à Arrow via Guilbaud, Nakamura et les"jeux simples". (English and French summaries) [From Condorcet to Arrow via Guibaud, Nakamura and "simple games"] **2005c:91044**
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Napel, Stefan *see* **Holler, Manfred J., 2005g:91032**
Nurmi, Hannu A comparison of some distance-based choice rules in ranking environments. (English summary)
Ortuño-Ortín, Ignacio *see* **Gomberg, Andrei M. et al., 2005k:91248**
Palfrey, Thomas R. Introduction: Special issue of Games and Economic Behavior in honor of Richard D. McKelvey.
Perazzo, R. P. J. *see* **Burgos, E. et al., 2005d:91015**
Procaccia, Uriel (*with* Segal, Uzi) Super majoritarianism and the endowment effect. (English summary) **2005f:91116**
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Sarkar, Palash *see* **Barua, Rana et al., 2005c:91016**
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Tian, Feng[1] *see* **Chen, Li Hua[2] et al., 2005d:90067**
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Yoo, Seungjae *see* **Lee, Byoungcheon et al., 2005f:94135**

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Andjiga, Nicolas-Gabriel (*with* Moulen, Joël) Preference aggregation, collective choice and generalized binary constitutions. (English and French summaries) **2005b:91076**
Baigent, Nick (*with* Eckert, Daniel) Abstract aggregations and proximity preservation: an impossibility result. (English summary) **2005g:91072**
Barbera, Salvador (*with* Dutta, Bhaskar; Sen, Arunava) Corrigendum to: "Strategy-proof social choice correspondences" [J. Econom. Theory **101** (2001), no. 2, 374–394; MR1885337 (2003c:91039)]. **Bossert, Walter** (*with* Sprumont, Yves) Efficient and non-deteriorating choice. (English summary) **2005d:91037**
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Cantala, David Choosing the level of a public good when agents have an outside option. (English summary) **2005a:91033**
Chambers, Christopher P. Virtual repeated implementation. (English summary) **2005a:91034**
Chin, Francis Y. L. (*with* Deng, Xiao Tie; Fang, Qi-zhi; Zhu, Shanfeng) Approximate and dynamic rank aggregation. (English summary) **2005j:91024**
Danilov, Vladimir Ivanovich[1] (*with* Koshevoĭ, G. A.) Mathematics of Plott choice functions. (English summary) **2005m:91061**
Deb, Rajat Rights as alternative game forms. (English summary) **2005b:91077**
Deng, Xiao Tie *see* **Chin, Francis Y. L. et al., 2005j:91024**
Dietrich, Franz (*with* List, Christian) A model of jury decisions where all jurors have the same evidence. (English summary) **2005i:91042**
Dutta, Bhaskar *see* **Barbera, Salvador et al.**
Ebert, Udo Social welfare, inequality, and poverty when needs differ. (English summary) **2005h:91068**
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Fang, Qi-zhi *see* **Chin, Francis Y. L. et al., 2005j:91024**
Gaertner, Wulf (*with* Xu, Yongsheng) Procedural choice. (English summary) **2005k:91105**
Hild, Matthias The instability of robust aggregation. (English summary) **2005e:91051**
Huang, Wu-Hsiung Is proximity preservation rational in social choice theory? (English summary) **2005g:91074**
Ju, Biung-Ghi Strategy-proof risk sharing. (English summary) **2005j:91025**
Kaminski, Marek M. Social choice and information: the informational structure of uniqueness theorems in axiomatic social theories. (English summary) **2005b:91078**
Klamler, Christian The Copeland rule and Condorcet's principle. (English summary) **2005j:91026**
Koshevoĭ, G. A. *see* **Danilov, Vladimir Ivanovich**[1], **2005m:91061**
Kukushkin, Nikolai S. ★ Acyclicity of monotonic endomorphisms. **2005i:91043**
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Maniquet, François (*with* Sprumont, Yves) Welfare egalitarianism in non-rival environments. (English summary) **2005j:91027**
McMorris, Frederick R. (*with* Powers, R. C.) Consensus functions on tree quasi-orders that satisfy an independence condition. (English summary) **2005b:91079**
Meirowitz, Adam The core of social choice problems with monotone preferences and a feasibility constraint. (English summary) **2005c:91043**
Monjardet, Bernard De Condorcet à Arrow via Guilbaud, Nakamura et les"jeux simples". (English and French summaries) [From Condorcet to Arrow via Guibaud, Nakamura and "simple games"] **2005c:91044**
— (*with* Raderanirina, Vololonirina) Lattices of choice functions and consensus problems. (English summary) **2005g:91075**
Moulen, Joël *see* **Andjiga, Nicolas-Gabriel, 2005b:91076**
Nehring, Klaus The veil of public ignorance. (English summary)
Nurmi, Hannu A comparison of some distance-based choice rules in ranking environments. (English summary)
Ooghe, Erwin (*with* Lauwers, Luc) Non-dictatorial extensive social choice. (English summary) **2005j:91028**
Perote-Peña, Juan (*with* Piggins, Ashley) Pareto efficiency with spatial rights. (English summary) **2005k:91106**
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Rubio Sanz, María Teresa *see* **Vicente Perdiz, Juan, 2005f:91050**
Sen, Arunava *see* **Barbera, Salvador et al.**
Serrano, Roberto The theory of implementation of social choice rules. (English summary) **2005k:91107**
— (*with* Vohra, Rajiv) A characterization of virtual Bayesian implementation. (English summary) **2005m:91062**
Shelah, Saharon On the Arrow property. (English summary) **2005h:91069**
Sönmez, Tayfun (*with* Ünver, M. Utku) House allocation with existing tenants: an equivalence. (English summary) **2005m:91063**
Sprumont, Yves *see* **Bossert, Walter, 2005d:91037** *and* **Maniquet, François, 2005j:91027**
Tanaka, Yasuhito[2] Oligarchy for social choice correspondences and strategy-proofness. (English summary) **2005g:91076**
Ünver, M. Utku *see* **Sönmez, Tayfun, 2005m:91063**
Vicente Perdiz, Juan (*with* Rubio Sanz, María Teresa) Geometry of inequality. (Spanish. Spanish summary) **2005f:91050**
Vohra, Rajiv *see* **Serrano, Roberto, 2005m:91062**
Xu, Yongsheng *see* **Gaertner, Wulf, 2005k:91105**
Yi, Jianxin A complete characterization of majority rules. (English summary)
Zhu, Shanfeng *see* **Chin, Francis Y. L. et al., 2005j:91024**

Items with secondary classifications in 91B14

Alcalde, José (*with* Revilla, Pablo) Researching with whom? Stability and manipulation. (English summary) **2005g:91027**
Aleskerov, F. T. Threshold utility, choice, and binary relations. (Russian. Russian summary) **2005f:91051**
Ben-Akiva, Moshe *see* **Walker, Joan, 2005b:91084**
Berga, Dolors (*with* Bergantiños, Gustavo; Massó, Jordi; Neme, Alejandro) Stability and voting by committees with exit. (English summary) **2005e:91047**
Bergantiños, Gustavo *see* **Berga, Dolors et al., 2005e:91047**
Bogomol'naya, A. V. (*with* Deb, Rajat; Ehlers, Lars) Strategy-proof assignment on the full preference domain. (English summary) **2005m:91067**
Bradley, W. James (*with* Hodge, Jonathan K.; Kilgour, D. Marc) Separable discrete preferences. (English summary) **2005k:91093**
Bukhtoyarov, S. E. (*with* Emelichev, Vladimir A.; Stepanishina, Yu. V.) Problems in the stability of vector discrete problems with a parametric optimality principle. (Russian. English and Ukrainian summaries) **2005e:90105**
Busemeyer, Jerome R. (*with* Diederich, Adele) Survey of decision field theory. (English summary) **2005b:91063**
de Carvalho, Francisco de A. T. *see* **Queiroz, Sérgio R. de M., (2005i:62003)**
Chun, Youngsub (*with* Thomson, William L.) Convergence under replication of rules to adjudicate conflicting claims. (English summary) **2005h:91135**
Cowell, Frank (*with* Ebert, Udo) Complaints and inequality. (English summary) **2005b:91144**
Deb, Rajat *see* **Bogomol'naya, A. V. et al., 2005m:91067**
Diederich, Adele *see* **Busemeyer, Jerome R., 2005b:91063**
Diffo Lambo, Lawrence (*with* Tchantcho, Bertrand; Moulen, Joël) Pouvoir mesuré et capacité d'un électeur à influencer le résultat du vote. (English and French summaries) [Measured power and capacity of an elector to influence voting results] **2005d:91033**
Domenach, Florent (*with* Leclerc, Bruno) Consensus of classification systems, with Adams' results revisited. (English summary) (*see* **2005i:62003**)
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Furusawa, Taiji (*with* Konishi, Hideo) A welfare decomposition in quasi-linear economies. (English summary)
George, Mary (*with* Thomaskutty, P. G.) Study of welfare—a fuzzy approach. (English summary) **2005g:91077**
Gersbach, Hans Dividing resources by flexible majority rules. (English summary) **2005c:91073**
Gilboa, Itzhak (*with* Vieille, Nicolas) Majority vote following a debate. (English summary) **2005c:91040**
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Grofman, Bernard *see* **Regenwetter, Michel et al., 2005m:91059**
Han, Song[2] Multi-objective programming and welfare evaluation criterion. (Chinese. English and Chinese summaries)
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Hodge, Jonathan K. *see* **Bradley, W. James et al., 2005k:91093**
Iritani, Jun (*with* Nguyen, Phuc Huu) On the existence of an implementable optimal income tax. (English summary) **2005k:91232**
Kalai, Gil Social indeterminacy. (English summary) **2005d:91034**
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— *see also* **Eckert, Daniel et al., 2005k:91096**
Kolbin, Vyacheslav Viktorovich ★ Decision making and programming. **2005e:91001**
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Maydeu-Olivares, Albert Limited information estimation and testing of Thurstonian models for preference data. (English summary)

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Persico, Nicola Committee design with endogenous information. (English summary) **2005k:91102**
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Quas, Anthony Anomalous outcomes in preferential voting. (English summary) **2005f:91049**
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ten Raa, Thijs (*with* Gilles, Robert P.) Lindahl equilibrium and Schweizer's open club model with semipublic goods. (English summary) **2005k:91110**
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Sanver, M. Remzi *see* **Sertel, Murat R., 2005k:91104**
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Stepanishina, Yu. V. *see* **Bukhtoyarov, S. E. et al., 2005e:90105**
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Eichberger, Jürgen (*with* Grant, Simon; Kelsey, David) CEU preferences and dynamic consistency. (English summary) **2005i:91044**
Eichner, Thomas (*with* Wagener, Andreas) Measures of risk attitude: correspondences between mean-variance and expected-utility approaches. **2005m:91064**
Elliott, Robert J. (*with* van der Hoek, John) Pricing claims on non tradable assets. (English summary) **2005b:91080**
Fostel, A. (*with* Scarf, H. E.; Todd, M. J.) Two new proofs of Afriat's theorem. (English summary) **2005b:91081**
Furusawa, Taiji (*with* Konishi, Hideo) A welfare decomposition in quasi-linear economies. (English summary)
Gardères, Philippe *see* **Briec, Walter, 2005k:91108**
George, Mary (*with* Thomaskutty, P. G.) Study of welfare—a fuzzy approach. (English summary) **2005g:91077**
Grant, Simon (*with* Karni, Edi) A theory of quantifiable beliefs. (English summary) **2005c:91045**
— *see also* **Eichberger, Jürgen et al., 2005i:91044**
Greco, Salvatore (*with* Matarazzo, Benedetto; Słowiński, Roman) Axiomatic characterization of a general utility function and its particular cases in terms of conjoint measurement and rough-set decision rules. (English summary) **2005a:91035**
Herden, Gerhard (*with* Mehta, Ghanshyam B.) The Debreu gap lemma and some generalizations. (English summary) **2005g:91078**
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Smolyak, S. A. Optimality criteria for investment projects under uncertainty. (English summary) (*see* **2005c:90002**)
Suck, Reinhard Independent random utility representations. (English summary) **2005e:91053**
Tamura, Hiroyuki[1] Behavioral aspects of decision analysis with application to public sectors. (English summary) (*see* **2005b:90008**)
Tapking, Jens Cost information sharing with uncertainty averse firms. (English summary) **2005b:91083**
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Yoon, Gawon On the existence of expected utility with CRRA under STUR. (English summary) **2005a:91036**
Yoshikawa, Shin-ichi (*with* Okuda, Tetsuji) An analysis of expected utility based on fuzzy interval data. (English summary) (*see* **2005b:90008**)
Zhang, Jun[6] Binary choice, subset choice, random utility, and ranking: a unified perspective using the permutahedron. (English summary) **2005m:91066**

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Abbas, Ali E. An information theory for preferences. (English summary) (*see* **2005c:62004**)
Aczél, János *see* **Gilányi, Attila et al., 2005m:39044**
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Angilella, Silvia (*with* Greco, Salvatore; Lamantia, Fabio; Matarazzo, Benedetto) Assessing non-additive utility for multicriteria decision aid. (English summary) **2005b:90112**
Baidya, Tara *see* **Ekenberg, Love et al., 2005i:91037**
Bhattacharya, Sukanto ★ Utility, rationality and beyond—from behavioral finance to informational finance. **2005m:91001**
Bliss, Christopher Koopmans recursive preferences and income convergence. (English summary) **2005a:91088**
Bosi, Gianni Quasi-integral utility for arbitrary preferences. (English summary)
Busemeyer, Jerome R. (*with* Diederich, Adele) Survey of decision field theory. (English summary) **2005b:91063**
Candeal-Haro, Juan Carlos (*with* de Miguel Velasco, Juan Ramón; Induráin Eraso, Esteban; Mehta, Ghanshyam B.) Representations of ordered semigroups and the physical concept of entropy. (English summary) **2005f:06018**
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Chen, Chie-Bein *see* **Lin, Chin-Tsai et al., 2005e:91044**
Chu, Francis C. (*with* Halpern, Joseph Y.) Great expectations. II. Generalized expected utility as a universal decision rule. (English summary) **2005k:91086**
Clempner, Julio (*with* Medel, Jesus; Cârsteanu, Alin) Extending games with local and robust Lyapunov equilibrium and stability condition. (English summary) **2005k:91013**
Dentcheva, Darinka (*with* Ruszczyński, Andrzej) Inverse stochastic dominance constraints and quantile utility theory. (English summary) **2005j:90050**
Diederich, Adele *see* **Busemeyer, Jerome R., 2005b:91063**
Ekenberg, Love (*with* Thorbiornson, Johan; Baidya, Tara) Value differences using second-order distributions. (English summary) **2005i:91037**
Elliott, Robert J. (*with* Chan, Leunglung) Perpetual American options with fractional Brownian motion. (English summary) **2005a:91059**
Fargier, Hélène (*with* Sabbadin, Régis) Qualitative decision under uncertainty: back to expected utility. (English summary) **2005k:91087**
Friedman, Craig (*with* Sandow, Sven) Model performance measures for leveraged investors. (English summary) **2005e:91077**

Gao, Cheng Xiu *see* **Yang, Ce Ping**, **2005h:62262**
Giang, Phan H. (*with* Shenoy, Prakash P.) Two axiomatic approaches to decision making using possibility theory. (English summary) **2005h:91059**
Giarlotta, Alfio Representable lexicographic products. (English summary) **2005k:06001**
Gilányi, Attila (*with* Ng, Che Tat; Aczél, János) On a functional equation arising from comparison of utility representations. (English summary) **2005m:39044**
Greco, Salvatore *see* **Angilella, Silvia et al.**, **2005b:90112**
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Guasoni, Paolo (*with* Schachermayer, Walter) Necessary conditions for the existence of utility maximizing strategies under transaction costs. (English summary) **2005k:91154**
Haigh, Michael S. *see* **List, John A.**
Halpern, Joseph Y. *see* **Chu, Francis C.**, **2005k:91086**
Hara, Chiaki Existence of equilibria in economies with bads. (English summary) **2005k:91199**
Herden, Gerhard (*with* Pallack, Andreas) On the cardinality of indifference classes. (English summary) **2005j:54021**
Hobson, D. G. Bounds for the utility-indifference prices of non-traded assets in incomplete markets. (English summary) **2005k:91155**
Hon-Snir, Shlomit Utility equivalence in auctions. (English summary) **2005k:91125**
Hugonnier, Julien (*with* Kramkov, D. O.; Schachermayer, Walter) On utility-based pricing of contingent claims in incomplete markets. (English summary) **2005m:91105**
Induráin Eraso, Esteban *see* **Candeal-Haro, Juan Carlos et al.**, **2005f:06018**
Iwamoto, Seiichi[2] Recursive methods in probability control. (English summary) **2005f:90147**
Iyengar, Garud (*with* Kang, Wanmo) Inverse conic programming with applications. (English summary) **2005g:90101**
Jonsson, Mattias (*with* Sircar, K. Ronnie) Options: to buy or not to buy? (English summary) **2005b:91120**
Kang, Wanmo *see* **Iyengar, Garud**, **2005g:90101**
Kramkov, D. O. *see* **Hugonnier, Julien et al.**, **2005m:91105**
Lamantia, Fabio *see* **Angilella, Silvia et al.**, **2005b:90112**
Lazrak, Ali Generalized stochastic differential utility and preference for information. (English summary) **2005i:60110**
Levin, V. L. Methods in the mathematical theory of demand, associated with the Monge-Kantorovich duality. (Russian) **2005k:49122**
Lin, Chin-Tsai (*with* Chen, Chie-Bein; Wu, Wen-Hsiang) Generalized form of grey relational grades. (English summary) **2005e:91044**
List, John A. (*with* Haigh, Michael S.) A simple test of expected utility theory using professional traders. (English summary)
Luce, R. Duncan Increasing increment generalizations of rank-dependent theories. (English summary) **2005d:91031**
Lundberg, Anders Variants of the distributivity equation arising in theories of utility and psychophysics. (English summary) **2005j:39019**
Maksa, Gyula (*with* Páles, Zsolt) On a composite functional equation arising in utility theory. (English summary) **2005f:39069**
Manzini, Paola (*with* Mariotti, Marco) A theory of vague expected utility. (English summary)
Mariotti, Marco *see* **Manzini, Paola**
Marley, A. A. J. Random utility models and their applications: recent developments [Special issue on random utility theory and probabilistic measurement theory].
— *see also* **Regenwetter, Michel et al.**, **2005m:91059**
Martínez-Legaz, Juan Enrique (*with* Rubinov, Aleksandr M.; Schaible, Siegfried) Increasing quasiconcave co-radiant functions with applications in mathematical economics. (English summary) **2005m:90088**
Masatlioglu, Yusufcan (*with* Ok, Efe A.) Rational choice with status quo bias. (English summary) **2005k:91196**
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Mészáros, Csaba (*with* Rapcsák, Tamás) A remark on: "Strict preference and sensitivity analysis in additive utility functions with interval data" [CEJOR Cent. Eur. J. Oper. Res. **12** (2004), no. 3, 233–249; MR2085395 (2005d:90111)] by R. Vetschera. (English summary)
de Miguel Velasco, Juan Ramón *see* **Candeal-Haro, Juan Carlos et al.**, **2005f:06018**
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Nakamura, Yutaka Trichotomous preferences for gambles. (English summary) **2005i:91038**
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Páles, Zsolt *see* **Maksa, Gyula**, **2005f:39069**
Pallack, Andreas *see* **Herden, Gerhard**, **2005j:54021**
Pavlov, Yu. P. Subjective preferences, values and decisions. Stochastic approximation approach. (English summary)
Rapcsák, Tamás *see* **Mészáros, Csaba**
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Regenwetter, Michel (*with* Marley, A. A. J.; Grofman, Bernard) A general concept of majority rule. (English summary) **2005m:91059**
van Rooy, Robert Utility, informativity and protocols. (English summary) **2005m:62013**
Rubinov, Aleksandr M. *see* **Martínez-Legaz, Juan Enrique et al.**, **2005m:90088**
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Schachermayer, Walter A super-martingale property of the optimal portfolio process. (English summary) **2005b:91132**
— ★ Portfolio optimization in incomplete financial markets. **2005m:91113**
— Utility maximisation in incomplete markets. **2005k:91173**
— *see also* **Guasoni, Paolo**, **2005k:91154** *and* **Hugonnier, Julien et al.**, **2005m:91105**
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Sircar, K. Ronnie *see* **Jonsson, Mattias**, **2005b:91120**
Słomczyński, Wojciech (*with* Zastawniak, Tomasz) Utility maximizing entropy and the second law of thermodynamics. (English summary) **2005f:60090**
Stettner, Lukasz *see* **Rásonyi, Miklós**, **2005k:93244**
Thorbiornson, Johan *see* **Ekenberg, Love et al.**, **2005i:91037**
Vetschera, Rudolf Strict preference and sensitivity analysis in additive utility functions with interval data. (English summary) **2005d:90111**
— *see also* **Mészáros, Csaba**
Von Auer, Ludwig Revealed preferences in intertemporal decision making. (English summary) **2005h:91063**
Weirich, Paul ★ Realistic decision theory. **2005h:91002**
Werner, Jan A simple axiomatization of risk-averse expected utility. (English summary) **2005m:91123**
Wu, Wen-Hsiang *see* **Lin, Chin-Tsai et al.**, **2005e:91044**
Yang, Ce Ping (*with* Gao, Cheng Xiu) Stationarity of the solution for a stochastic time series model in the MA(2) series. (Chinese. English and Chinese summaries) **2005h:62262**
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Banzhaf, H. Spencer *see* **Sieg, Holger et al.**
Bogomol'naya, A. V. (*with* Deb, Rajat; Ehlers, Lars) Strategy-proof assignment on the full preference domain. (English summary) **2005m:91067**
Cason, Timothy N. (*with* Saijo, Tatsuyoshi; Yamato, Takehiko; Yokotani, Konomu) Non-excludable public good experiments. (English summary)
Croson, Rachel (*with* Fatas, Enrique; Neugebauer, Tibor) Reciprocity, matching and conditional cooperation in two public goods games. (English summary) **2005j:91030**
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Fatas, Enrique *see* **Croson, Rachel et al.**, **2005j:91030**
Fukumoto, Jun-ya External audit system of project evaluation: optimal structure and audit quality. (English summary)
Fukuyama, Kei A link formation game of road network construction: local demand and cooperation. (English summary)
Gilles, Robert P. *see* **ten Raa, Thijs**, **2005k:91110**
González, Luis G. (*with* Güth, Werner; Levati, M. Vittoria) When does the game end? Public goods experiments with non-definite and non-commonly known time horizons. (English summary)
Graziano, Maria Gabriella *see* **De Simone, Anna**, **2005e:91054**
Güth, Werner *see* **González, Luis G. et al.**
Kanazaki, Masayuki Lobbying game between the government with private information and the lobbyist. (English summary) **2005m:91068**
Koppel, Oliver Public good provision in legislatures: the dynamics of enlargements. (English summary) **2005d:91039**
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Liu, Liqun (*with* Neilson, William S.) Endogenous private health investment and the willingness to pay for public health projects: the effects of income. (English summary) **2005k:91109**
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Neeman, Zvika The relevance of private information in mechanism design. (English summary) **2005a:91037**
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Norman, Peter[2] Efficient mechanisms for public goods with use exclusions. (English summary) **2005e:91055**
Park, In-Uck A simple inducement scheme to overcome adoption externalities. (English summary) **2005h:91072**
ten Raa, Thijs (*with* Gilles, Robert P.) Lindahl equilibrium and Schweizer's open club model with semipublic goods. (English summary) **2005k:91110**
Rhee, Sangkyu Sharing-group allocation problems. (English summary) **2005h:91073**
Saijo, Tatsuyoshi *see* **Cason, Timothy N. et al.**
Sieg, Holger (*with* Smith, V. Kerry; Banzhaf, H. Spencer; Walsh, Randy) Estimating the general equilibrium benefits of large changes in spatially delineated public goods. (English summary)
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Wartha, Udo *see* **Wigger, Berthold U.**
Wigger, Berthold U. (*with* Wartha, Udo) Vertical tax externalities and the composition of public spending in a federation. (English summary)
Yamato, Takehiko *see* **Cason, Timothy N. et al.**
Yokotani, Konomu *see* **Cason, Timothy N. et al.**

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Abbink, Klaus (*with* Sadrieh, Abdolkarim; Zamir, Shmuel) Fairness, public good, and emotional aspects of punishment behavior. (English summary) **2005h:91058**

Besfamille, Martin Collusion in local public works. (English summary)
Cantala, David Choosing the level of a public good when agents have an outside option. (English summary) **2005a:91033**
Cellini, Roberto (*with* Lambertini, Luca) Advertising with spillover effects in a differential oligopoly game with differentiated goods. (English summary) **2005a:91018**
Ehlers, Lars (*with* Peters, Hans; Storcken, Ton) Threshold strategy-proofness: on manipulability in large voting problems. (English summary) **2005c:91039**
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Hauert, Christoph (*with* Haiden, Nina; Sigmund, Karl) The dynamics of public goods. (English summary)
Lambertini, Luca *see* **Cellini, Roberto, 2005a:91018**
Leroux, Alain (*with* Leroux, Justin) Fair division with no information. (English summary) **2005k:91191**
Leroux, Justin *see* **Leroux, Alain, 2005k:91191**
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Peters, Hans *see* **Ehlers, Lars et al., 2005c:91039**
Romano, Richard (*with* Yildirim, Huseyin) On the endogeneity of Cournot-Nash and Stackelberg equilibria: games of accumulation. (English summary) **2005h:91015**
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Sigmund, Karl *see* **Hauert, Christoph et al.**
Storcken, Ton *see* **Ehlers, Lars et al., 2005c:91039**
Villanacci, Antonio (*with* Zenginobuz, E. Ünal) Existence and regularity of equilibria in a general equilibrium model with private provision of a public good. (English summary) **2005m:91131**
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Zamir, Shmuel *see* **Abbink, Klaus et al., 2005h:91058**
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Acharyya, Rajat Quality discrimination among income constrained consumers. (English summary)
Alessandria, George International deviations from the law of one price: the role of search frictions and market share. (English summary) **2005e:91056**
Amendola, Mario (*with* Gaffard, J.-L.; Musso, P.) Viability of innovation processes, emergence and stability of market structures. (English summary) (*see* **2005m:91006**)
Anjos, Miguel F. (*with* Cheng, Russell C. H.; Currie, Christine S. M.) Optimal pricing policies for perishable products. (English summary) **2005k:91111**
Ayhan, Hayriye *see* **Ziya, Serhan et al.**
Berezneva, T. D. On the boundedness of budget sets in mathematical economic models with financial markets. (Russian. Russian summary) **2005j:91031**
Bikhchandani, Sushil (*with* Lippman, Steven A.; Ryan, Reade) On the right-of-first-refusal. (English summary) **2005m:91069**
Böhm, Volker (*with* Chiarella, Carl) Mean variance preferences, expectations formation, and the dynamics of random asset prices. (English summary) **2005k:91112**
Boĭko, I. I. Hierarchy of optimal selling prices. (Russian. English summary) **2005m:91070**
Bottazzi, Giulio (*with* Devetag, Giavanna) Expectations structure in asset pricing experiments. (English summary) (*see* **2005j:91003**)
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— The promise and pitfalls of restructuring network industries. (English summary)
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Ezhov, Alexandr A. (*with* Khrennikov, Andrei Yu.) Agents with left and right dominant hemispheres and quantum statistics. (English summary)
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Fishman, Arthur (*with* Simhon, Avi) Can small menu costs explain sticky prices? (English summary) **2005k:91113**
Foley, Robert D. *see* **Ziya, Serhan et al.**
Fouque, Jean-Pierre (*with* Han, Chuan-Hsiang) Asian options under multiscale stochastic volatility. (English summary) **2005h:91075**
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Granero, Luis M. Upward and downward limit pricing: the role of post-entry competition. (English summary) **2005k:91114**
Grout, Paul A. (*with* Zalewska, Anna) On the undervaluation of privatized companies. (English summary)
Guo, Wen-Chung *see* **Wu, Ho-Mou, 2005d:91042**
Han, Chuan-Hsiang *see* **Fouque, Jean-Pierre, 2005h:91075**
Herings, P. Jean-Jacques (*with* Polemarchakis, Herakles M.) Pareto improving price regulation when the asset market is incomplete. (English summary) **2005g:91082**
Herzberg, Frederik S. The fairest price of an asset in an environment of temporary arbitrage. (English summary) **2005k:91115**
Huang, Hui Min (*with* Sun, Xiao Ming[1]) Extended financial equilibrium with weighted incomplete real asset markets: the case of restricted participation. (Chinese. English and Chinese summaries)
Huberman, Gur (*with* Stanzl, Werner) Price manipulation and quasi-arbitrage. (English summary) **2005a:91038**
Hurkens, Sjaak *see* **van Damme, Eric, 2005d:91040**
Jebsi, Khaïreddine (*with* Thomas, Lionel) Optimal pricing for selling a congestible good with countervailing incentives. (English summary) **2005a:91039**
Kaboski, Joseph P. Factor price uncertainty, technology choice and investment delay. (English summary) **2005h:91076**
Karsak, E. Ertugrul (*with* Özogul, C. Okan) Valuation of expansion flexibility in flexible manufacturing system investments using sequential exchange options. (English summary)
Kato, Atsushi Market structure and the allocation of R&D expenditures. (English summary) **2005j:91032**
Keppo, Jussi Pricing of point-to-point bandwidth contracts. (English summary) **2005k:91116**
Khrennikov, Andrei Yu. *see* **Ezhov, Alexandr A.**
Laincz, Christopher A. Market structure and endogenous productivity growth: how do R&D subsidies affect market structure? (English summary) **2005h:91077**
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Li, Peijun *see* **Zhang, Guan Quan, 2005h:91080**
Lin, Kyle Y. A sequential dynamic pricing model and its applications. (English summary) **2005b:91085**
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Starosel'tsev, O. N. Predicting the prices of goods. (Russian. Russian summary) (*see* **2005i:00009**)
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Udrişte, Constantin (*with* Dogaru, Oltin; Ferrara, Massimiliano; Niglia, Andrea) Nonholonomic evolution of two-sector economy. (English and Romanian summaries) **2005h:91079**
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Wu, Ho-Mou (*with* Guo, Wen-Chung) Asset price volatility and trading volume with rational beliefs. (English summary) **2005d:91042**
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Zagst, Rudi (*with* Roth, Jeanette) Three-factor defaultable term structure models. (English summary)
Zalewska, Anna *see* **Grout, Paul A.**
Zhang, Guan Quan (*with* Li, Peijun) An inverse problem of derivative security pricing. (English summary) **2005h:91080**
Ziya, Serhan (*with* Ayhan, Hayriye; Foley, Robert D.) Relationships among three assumptions in revenue management. (English summary)

Items with secondary classifications in 91B24

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Allen, Beth On the definition of differentiated products in the real world. (English summary) **2005g:91144**
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Bielecki, Tomasz R. (*with* Björk, Tomas; Jeanblanc-Picqué, Monique; Rutkowski, Marek; Scheinkman, José A.; Xiong, Wei[2]) ★ Paris-Princeton Lectures on Mathematical Finance 2003. **2005g:91008**

Björk, Tomas *see* **Bielecki, Tomasz R. et al., 2005g:91008**
Brigo, Damiano (*with* Mercurio, Fabio; Morini, Massimo) The LIBOR model dynamics: approximations, calibration and diagnostics. (English summary)
Cabon-Dhersin, Marie-Laure (*with* Ramani, Shyama V.) Does trust matter for R&D cooperation? A game theoretic examination. (English summary) **2005k:91011**
Calin, Ovidiu L. (*with* Chen, Yu[9]; Cosimano, Thomas F.; Himonas, A. Alexandrou) Solving asset pricing models when the price-dividend function is analytic. (English summary) **2005k:91145**
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(Carmona, René) *see* **Bielecki, Tomasz R. et al., 2005g:91008**
Cellini, Roberto (*with* Lambertini, Luca) Dynamic oligopoly with sticky prices: closed-loop, feedback, and open-loop solutions. (English summary) **2005b:91041**
Chen, Hong[3] (*with* Wan, Yat-wah) Capacity competition of make-to-order firms. (English summary) **2005h:91054**
Chen, Xin[5] (*with* Simchi-Levi, David) Coordinating inventory control and pricing strategies with random demand and fixed ordering cost: the infinite horizon case. (English summary) **2005g:90039**
Chen, Yongmin (*with* Wang, Ruqu) A model of competing selling mechanisms. (English summary)
Chen, Yu[9] *see* **Calin, Ovidiu L. et al., 2005k:91145**
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Errata:
"Process and product innovation: complementarity in a vertically differentiated monopoly with discrete consumer types" Errata: "Process and product innovation: complementarity in a vertically differentiated monopoly with discrete consumer types" [Jpn. Econ. Rev. **55** (2004), no. 2, 175–200; MR2064024 (2005g:91134)] by S. Bandyopadhyay and R. Acharyya.
Lecture Notes in Mathematics *see* **Bielecki, Tomasz R. et al., 2005g:91008**
Paris-Princeton Lectures on Mathematical Finance 2003 *see* **Bielecki, Tomasz R. et al., 2005g:91008**

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Items with secondary classifications in 91B26

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Angeletos, George-Marios (*with* Calvet, Laurent-Emmanuel) Incomplete-market dynamics in a neoclassical production economy. (English summary) **2005m:91133**
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Barone Adesi, Giovanni (*with* Gagliardini, Patrick; Urga, Giovanni) Testing asset pricing models with coskewness. (English summary)
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Bikhchandani, Sushil (*with* Lippman, Steven A.; Ryan, Reade) On the right-of-first-refusal. (English summary) **2005m:91069**

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Chun, Youngsub On weighted Kalai-Samet solutions for non-transferable utility coalitional form games. (English summary) **2005b:91026**
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Elmaghraby, Wedad J. Multi-unit auctions with complementarities: issues of efficiency in electricity auctions. (English summary)
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Hausken, Kjell (*with* Cressman, Ross) Formalization of multi-level games. (English summary) **2005a:91026**
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Herings, P. Jean-Jacques (*with* Mauleon, Ana; Vannetelbosch, Vincent J.) Rationalizability for social environments. (English summary) **2005c:91028**
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Huang, Tao Bertrand competition with incomplete share for lower price. (English summary) **2005b:91012**
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Ioannidis, C. (*with* Peel, D. A.) Testing for market efficiency in gambling markets when the errors are non-normal and heteroskedastic an application of the wild bootstrap. (English summary)
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Mitran, Ilie On the maximum probability criteria concerning the sequential decision-making problem. (English summary) **2005a:91028**
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Items listed otherwise than by author

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Kiel ★ Nonlinear dynamics and heterogeneous interacting agents. **2005j:91003**
Lecture Notes in Economics and Mathematical Systems ★ The complex dynamics of economic interaction. **2005m:91006**
— ★ Nonlinear dynamics and heterogeneous interacting agents. **2005j:91003**
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Trieste ★ The complex dynamics of economic interaction. **2005m:91006**

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Adamo, Massimiliano (*with* Amadori, Anna Lisa; Bernaschi, Massimo; La Chioma, Claudia; Marigo, Alessia; Piccoli, Benedetto; Sbaraglia, Simone; Uboldi, Adamo; Vergni, Davide; Fabbri, Paola; Iacovoni, Davide; Natale, Francesco; Scalera, Stefano; Spilotro, Lucia; Valletta, Antonella) Optimal strategies for the issuances of public debt securities. (English summary)
Afful, Kofi B. An explanation of non-equilibrium currency bid-ask spreads. (English summary)
Agasandyan, G. A. ★ Описание поведения инвестора на многопериодном рынке опционов. (Russian) [Description of the behavior of an investor in a multiperiod options market]
— ★ Принцип минимума дохода для инвестора рынка опционов. (Russian) [The minimum profit principle for an investor in the options market] **2005m:91086**
Akcoglu, Karhan (*with* Drineas, Petros; Kao, Ming-Yang) Fast universalization of investment strategies with provably good relative returns. (English summary) (*see* **2005a:68008**)
— (*with* Drineas, Petros; Kao, Ming-Yang) Fast universalization of investment strategies. (English summary) **2005h:91094**
Albanese, Claudio (*with* Chen, Oliver X.) Credit barrier models in a discrete framework. (English summary) **2005g:91090**
— (*with* Jackson, Kenneth R.; Wiberg, Petter) A new Fourier transform algorithm for value-at-risk. (English summary) **2005b:91099**
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— (*with* Hartinger, Jürgen; Tichy, Robert F.) QMC techniques for CAT bond pricing. (English summary)
Allen, Edward J. *see* **Arciniega, Armando, 2005c:91050**
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— (*with* Mallier, Roland) Interest rate options close to expiry. (English summary) **2005e:91068**
— *see also* **Mallier, Roland, 2005d:91057** *and* **2005j:91043**
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Amir, Rabah (*with* Evstigneev, Igor V.; Hens, Thorsten; Schenk-Hoppé, Klaus Reiner) Market selection and survival of investment strategies. (English summary) **2005i:91058**
Amir-Atefi, Keyvan *see* **D'Souza, Dylan et al., (2005b:91009)**
Ammar, E. E. (*with* Khalifa, H. A.) Characterization of optimal solutions of uncertainty investment problem. (English summary)
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Anderson, Robert M. (*with* Raimondo, Roberto C.) Market clearing and derivative pricing. (English summary) **2005g:91091**
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Basso, Antonella (*with* Funari, Stefania) A generalized performance attribution technique for mutual funds. (English summary)
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— *see also* **Caldarelli, Guido et al., 2005h:91097** *and* **Garlaschelli, Diego et al.**
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measure: properties, optimization and applications. (English summary) **2005a:91052**

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Bian, Bao Jun (*with* Jiang, Lishang) A note on the valuation of American option. (English summary) **2005f:91063**

— (*with* Dai, Xiao Liang; Yuan, Gui Qiu) Asymptotic analysis and numerical computation of American option when expiry date runs to infinity. (Chinese. English and Chinese summaries)

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— (*with* Jeanblanc-Picqué, Monique; Rutkowski, Marek) Pricing and hedging of credit risk: replication and mean-variance approaches. II. (English summary) **2005f:91065**

— (*with* Rutkowski, Marek) Modeling of the defaultable term structure: conditionally Markov approach. (English summary) **2005b:91104**

— (*with* Pliska, Stanley R.) Risk-sensitive ICAPM with application to fixed-income management. (English summary) **2005b:91105**

— (*with* Jin, Hanqing; Pliska, Stanley R.; Zhou, Xun Yu) Continuous-time mean-variance portfolio selection with bankruptcy prohibition. (English summary) **2005m:91090**

Biglova, Almira *see* **Ortobelli Lozza, Sergio et al.**, (**2005b:91009**)

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Bobrovnits'ka, Ol'ga (*with* Schweizer, Martin) Mean-variance hedging and stochastic control: beyond the Brownian setting. (English summary) **2005c:91051**

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Bond, Philip (*with* Krishnamurthy, Arvind[2]) Regulating exclusion from financial markets. (English summary)

Bondarenko, Yu. V. Construction of a mean-square optimal hedge with limited investment capital. (Russian. English and Ukrainian summaries) **2005m:91091**

— (*with* Mastorakis, Nikos) Solution of partial differential equation for the option price by means the modified parametrix method. (English summary) **2005i:91059**

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Brigo, Damiano (*with* Mercurio, Fabio; Morini, Massimo) The LIBOR model dynamics: approximations, calibration and diagnostics. (English summary)

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Buchen, Peter (*with* Konstandatos, Otto) A new method of pricing lookback options. (English summary) **2005m:91092**

Bulycheva, M. V. On the convergence of intervals of fair prices in a model with European options. (Russian)

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— *see also* **Garlaschelli, Diego et al.** *and* **Battiston, Stefano et al.**, (**2005j:91003**)

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— A note on extremality and completeness in financial markets with infinitely many risky assets. (English summary) **2005h:91098**

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Carr, Peter Paul (*with* Geman, Hélyette; Madan, Dilip B.; Yor, Marc) Stochastic volatility for Lévy processes. (English summary) **2005a:91054**

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Chao, Xiuli (*with* Lai, Kin Keung; Wang, Shou Yang; Yu, Mei[1]) Optimal consumption portfolio and no-arbitrage with nonproportional transaction costs. (English summary)

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Chawla, Man M. Finite difference methods for the Black-Sholes equation and valuation of options. (English summary) **2005d:91047**

Chen, Daoping Evaluation of call options. (English summary)

Chen, Hsi-Mei (*with* Huang, Cheng-Hung) An inverse European option problem in estimating the time-dependent volatility function with statistical analysis. (English summary)

Chen, Li[8] (*with* Filipović, Damir[1]; Poor, H. Vincent) Quadratic term structure models for risk-free and defaultable rates. (English summary) **2005f:91066**

Chen, Oliver X. *see* **Albanese, Claudio, 2005g:91090**

Chen, Ping[3] (*with* Ye, Zhong Xing; Yang, Xiao Ping[1]) Option pricing and hedging on dividend-paying and placing stocks. (Chinese. English and Chinese summaries) **2005e:91071**

Chen, Shu-ping (*with* Li, Chong[1]; Li, Sheng Hong[1]; Wu, Xiong-wei) Portfolio optimization model with transaction costs. (English summary) **2005a:91057**

Chen, Wen Cai (*with* Ye, Zhong Xing) Stock market models and invariant price manifolds. (Chinese. English and Chinese summaries) **2005c:91053**

Chen, Xinfu (*with* Chadam, John) Analytical and numerical approximations for the early exercise boundary for American put options. (English summary) **2005k:91146**

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Chen, Yu[9] *see* **Calin, Ovidiu L. et al., 2005k:91145**

Chen, Zeqian Quantum theory for the binomial model in finance theory. (English summary) **2005g:91097**

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Chiarella, Carl (*with* Dieci, Roberto; Gardini, Laura) Asset price dynamics and diversification with heterogeneous agents. (English summary) **2005k:91147**

— (*with* Clewlow, Les; Musti, Silvana) A volatility decomposition control variate technique for Monte Carlo simulations of Heath Jarrow Morton models. (English summary)

— (*with* Ziogas, Andrew) Evaluation of American strangles. (English summary) **2005j:91038**

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Chiu, Yung-Ho (*with* Shen, Da-Bai; Ma, Chun-Mei) Small business lending and bank cost efficiency. (English summary)

Cho, Chung-Ki (*with* Kim, Taekkeun; Kwon, YongHoon) Estimation of local volatilities in a generalized Black-Scholes model. (English summary) **2005h:91101**

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Choustova, Olga Bohmian mechanics for financial processes.

Churilov, Leonid (*with* Bomze, Immanuel M.; Sniedovich, Moshe; Ralph, Daniel) Hyper sensitivity analysis of portfolio optimization problems. (English summary) **2005h:91102**

Cigola, Margherita (*with* Peccati, Lorenzo) On the comparison between the APV and the NPV computed via the WACC. (English summary)

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Collin-Dufresne, P. (*with* Goldstein, Robert; Hugonnier, Julien) A general formula for valuing defaultable securities. (English summary) **2005j:91039**

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— (*with* Valls Martínez, María Del Carmen) Profit-sharing in transactions governed by a subadditive capitalization function. (English summary) **2005i:91062**

Dahlgren, Martin (*with* Korn, Ralf) The swing option on the stock market. (English summary) **2005m:91094**

— Optimal sale strategies in illiquid markets. (English summary) **2005k:91148**

Dai, Min[2] (*with* Kwok, Yue Kuen; Wu, Lixin[2]) Optimal shouting policies of options with strike reset right. (English summary) **2005e:91072**

— (*with* Wong, Hoi Ying; Kwok, Yue Kuen) Quanto lookback options. (English summary) **2005b:91109**

— *see also* **Jiang, Lishang, 2005j:91041**

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Da Silva, Sergio (*with* Matsushita, Raul; Gleria, Iram; Figueiredo, Annibal; Rathie, Pushpa Narayan) International finance, Lévy distributions, and the econophysics of exchange rates. (English summary) **2005g:91099**

Davis, Mark H. A. Complete-market models of stochastic volatility. (English summary) **2005b:91110**

Deakin, A. Stanley *see* **Alobaidi, Ghada et al., 2005f:91060**

Décamps, Jean-Paul (*with* Mariotti, Thomas) Investment timing and learning externalities.

(English summary) **2005e:91073**

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— *see also* **Vanmaele, Michèle et al., 2005k:91176**

De La Peña, Victor H. (*with* Ibragimov, Rustam; Jordan, Steve) Option bounds. (English summary) **2005d:91059**

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Deng, Xiao Tie (*with* Li, Zhong Fei; Wang, Shou Yang; Yang, Hailiang) Necessary and sufficient conditions for weak no-arbitrage in securities markets with frictions. (English summary) **2005k:91149**

— (*with* Li, Zhong Fei; Wang, Shou Yang) A minimax portfolio selection strategy with equilibrium. (English summary) **2005k:91150**

— *see also* **Zheng, Wei Min et al.**, (**2005c:00015**)

Deng, Zui Cha An optimal control method for determination of implied volatility. (Chinese. English and Chinese summaries)

Derigs, Ulrich (*with* Nickel, Nils-H.) On a local-search heuristic for a class of tracking error minimization problems in portfolio management. (English summary) **2005e:91074**

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Djounguela, A. *see* **Zhimbo, È. K. et al., 2005h:91127**

Doerner, Karl (*with* Gutjahr, Walter J.; Hartl, Richard F.; Strauss, Christine; Stummer, Christian) Pareto ant colony optimization: a metaheuristic approach to multiobjective portfolio selection. (English summary) **2005e:91075**

Doganoglu, Toker (*with* Mittnik, Stefan; Rachev, Svetlozar T.) Portfolio selection in the presence of heavy-tailed asset returns. (English summary) **2005b:91111**

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Dostál, Petr[2] *see* **Štěpán, Josef, 2005h:91120** *and* **2005h:91121**

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D'Souza, Dylan (*with* Amir-Atefi, Keyvan; Racheva-Jotova, Borjana) Valuation of a credit spread put option: the stable Paretian model with copulas. (*see* **2005b:91009**)

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— Russian options with a finite time horizon. (English summary) **2005b:91112**

— Convexity of the optimal stopping boundary for the American put option. (English summary) **2005f:91068**

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El Karoui, Nicole Mesure et couverture des risques dans les marchés financiers. [Measure and hedging of risks in financial markets] **2005c:91057**

— (*with* Jeanblanc-Picqué, Monique; Lacoste, Vincent) Optimal portfolio management with American capital guarantee. (English summary) **2005k:91151**

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— *see also* **Bender, Christian, 2005g:91094**

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Fouque, Jean-Pierre (*with* Papanicolaou, George; Sircar, K. Ronnie; Sølna, Knut) Multiscale stochastic volatility asymptotics. (English summary) **2005b:91114**

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Frangos, C. (*with* Zenios, Stavros A.; Yavin, Y.) Computation of feasible portfolio control strategies for an insurance company using a discrete time asset/liability model. (English summary) **2005f:91069**

Friedman, Craig (*with* Sandow, Sven) Model performance measures for leveraged investors. (English summary) **2005e:91077**

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— *see also* **Biagini, Sara, 2005h:91096**

Fu, Chang Qing *see* **Zhang, Shi Bin et al., 2005d:91064**

Fu, Qiang[1] (*with* Li, Xiao) Optimizing capital structure under uncertainty. (Chinese. English and Chinese summaries)

Fujiwara, Yoshi *see* **Souma, Wataru et al., 2005g:91111**

Funari, Stefania *see* **Basso, Antonella**

Gaĭvoronskiĭ, A. A. (*with* Krylov, Sergiy; van der Wijst, Nico) Optimal portfolio selection and dynamic benchmark tracking. (English summary) **2005m:91097**

Galagedera, Don U. A. (*with* Faff, Robert) Modeling the risk and return relation conditional on market volatility and market conditions. (English summary) **2005h:91105**

Gal′perin, V. A. (*with* Dombrovskiĭ, V. V.; Fedosov, E. N.) Dynamic management of an investment portfolio in a jump-diffusion financial market with switching modes. (Russian. Russian summary) **2005m:91098**

Gambarelli, Gianfranco (*with* Pesce, Serena) Takeover prices and portfolio theory. (English summary) **2005g:91100**

Gapeev, Pavel V. On arbitrage and Markovian short rates in fractional bond markets. (English summary) **2005m:91099**

García Pérez, José *see* **Cruz Rambaud, Salvador et al., 2005i:91061**

Gardini, Laura *see* **Chiarella, Carl et al., 2005k:91147**

Garibaldi, Ubaldo (*with* Raberto, Marco; Viarengo, Paolo) Herd behavior in artificial stock markets. (English summary) **2005m:91100**

Garlaschelli, Diego (*with* Battiston, Stefano; Castri, Maurizio; Servedio, Vito D. P.; Caldarelli, Guido) The scale-free topology of market investments. (English summary)

— *see also* **Caldarelli, Guido et al., 2005h:91097** *and* **Battiston, Stefano et al.**, (**2005j:91003**)

Geman, Hélyette *see* **Carr, Peter Paul et al., 2005a:91054**

Gendreau, Michel *see* **Abrache, Jawad et al.**

Gerasimov, E. S. (*with* Dombrovskiĭ, V. V.) A dynamic network model for managing an investment portfolio under random stepwise changes in the volatilities of financial assets. (Russian. Russian summary) **2005m:91101**

Gerber, G. *see* **Bassett, G. et al.**, (**2005c:62006**)

Giacometti, Rosella (*with* Teocchi, Mariangela) On pricing of credit spread options. (English summary) **2005g:91101**

Giannetti, Antoine (*with* Zhong, Rui; Wu, Lixin[2]) Inventory hedging and option market making. (English summary)

Giuli, Massimiliano (*with* Monte, Roberto) Diffusion processes in a financial market under heterogeneous trading and learning. (English summary) **2005k:91153**

Glasserman, Paul (*with* Yu, Bin[3]) Simulation for American options: regression now or regression later? (English summary) (*see* **2005b:65002**)

Gleria, Iram *see* **Da Silva, Sergio et al., 2005g:91099**

Gnudi, Adriana *see* **Abaffy, Jozsef et al., 2005k:91136**

Goard, Joanna M. (*with* Broadbridge, Philip; Raina, G.) Tractable forms of the bond pricing equation. (English summary) **2005d:91049**

Goldenok, E. E. Direct and inverse eventological Markowitz problems: management of personnel and use of resources. (Russian. English summary) **2005h:91106**

Goldstein, Robert *see* **Collin-Dufresne, P. et al., 2005j:91039**

Gollier, Christian Optimal dynamic portfolio risk with first-order and second-order predictability. (English summary)

— Misery loves company: equilibrium portfolios with heterogeneous consumption externalities. (English summary) **2005e:91078**

Gonchar, N. S. (*with* Kovtun, S. A.) A European-type option for a risky asset that evolves by the Lévy process. (Ukrainian. English summary) **2005h:91107**

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Grasselli, Martino Sup-convolutions of HARA utilities in the affine term structure. **2005m:91102**

— *see also* **Deelstra, Griselda et al., 2005c:91056**

Gratcheva, Ekaterina M. (*with* Falk, James E.) Setting optimal bounds on risk in asset allocation—a convex program. (English and Spanish summaries)

Grigor′ev, P. V. (*with* Kan, Yu. S.) Optimal management of a portfolio of securities, based on the quantile criterion. (Russian. Russian summary) **2005d:91050**

Gu, Wei (*with* Wan, Jian Ping; Wang, Li Li) Comparison of calculations of value-at-risk under normal and student distributions. (Chinese. English and Chinese summaries)

Gu, Yong Geng *see* **Zheng, Wei Min et al.**, (**2005c:00015**)

Guan, Lin Lin Verification theorem in problem of real options. (Chinese. English and Chinese summaries)

Guasoni, Paolo (*with* Schachermayer, Walter) Necessary conditions for the existence of utility maximizing strategies under transaction costs. (English summary) **2005k:91154**

Gui, Wei Hua *see* **Peng, Hui**[2] **et al.**

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Gukhal, Chandrasekhar Reddy The compound option approach to American options on jump-diffusions. (English summary) **2005d:91051**

Gülpınar, N. *see* **Osorio Lama, María Auxilio et al.**

Guo, Wenjing (*with* Xu, Cheng Ming) Optimal portfolio selection when stock prices follow a jump-diffusion process. (English summary) **2005g:91102**

Guo, Xin (*with* Zhang, Qing[1]) Closed-form solutions for perpetual American put options with regime switching. (English summary) **2005h:91108**

Guo, Zhi Ming (*with* Yu, Jian She; Lei, Guang Long) The establishment and applications of the interest rate-amount for a circulating fund equation with delay. (Chinese. English and Chinese summaries)

Gutiérrez, María-José (*with* Vázquez, Jesús) Switching equilibria: the present value model for stock prices revisited. (English summary) **2005d:91052**

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Hambly, Ben M. *see* **Meinshausen, N., 2005k:91165**

Han, Dong *see* **Li, Yan, 2005k:91161**

Hanke, Martin (*with* Rösler, Elisabeth) Computation of local volatilities from regularized Dupire equations. (English summary)

Hanke, Michael Pricing options on leveraged equity with default risk and exponentially increasing, finite maturity debt. (English summary) **2005h:91109**

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Hatagi, Tomokazu *see* **Konno, Hiroshi**, 2005k:91160
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— *see also* **Sass, Jörn**, 2005e:91092 *and* **Chiarolla, Maria B.**, 2005m:91093
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— An '$\hbar$-Brownian motion' and the existence of stochastic option prices. (English summary) **2005g:91104**
— *see also* **Stradi, Benito**, 2005k:91175
Hayford, M. D. (*with* Malliaris, A. G.) How did the Fed react to the 1990s stock market bubble? Evidence from an extended Taylor rule. (English summary)
He, Hao *see* **Voss, D. A. et al.**, (2005i:00014)
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Heath, David Patrick (*with* Platen, Eckhard) Pricing of index options under a minimal market model with log-normal scaling. (English summary) **2005b:91117**
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— *see also* **Hein, Torsten**, 2005e:91079
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Hou, He Yin (*with* Wang, Huan Chen) The evolvement realization of HTVC integration systems under venture capitalist's risk aversion. (Chinese. English and Chinese summaries)
Howison, S. D. *see* **Lamper, David**, (2005a:00022)
Hu, Qiying *see* **Lu, Guibin**, 2005f:91071
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Jiang, Lishang (*with* Dai, Min[2]) Convergence of binomial tree methods for European/American path-dependent options. (English summary) **2005j:91041**
— *see also* **Bian, Bao Jun**, 2005f:91063
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Jin, Zhi Ming[1] *see* **Li, Xia**
Jobst, Norbert J. (*with* Zenios, Stavros A.) On the simulation of portfolios of interest rate and credit risk sensitive securities. (English summary)
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Karibskiĭ, A. V. (*with* Shishorin, Yu. R.; Yurchenko, S. S.) Financial and economic analysis and the estimation of the effectiveness of investment projects and programs. I. (Russian. Russian summary)
— (*with* Shishorin, Yu. R.; Yurchenko, S. S.) Financial and economic analysis and the estimation of the effectiveness of investment projects and programs. II. (Russian. Russian summary)
Kazakov, Vladimir Aleksandrovich[1] *see* **Tsirlin, Anatolii**, (2005h:00012)
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Khalifa, H. A. *see* **Ammar, E. E.**
Khaliq, A. Q. M. *see* **Voss, D. A. et al.**, (2005i:00014)
Kholodnyi, Valery A. Valuation and hedging of European contingent claims on power with spikes: a non-Markovian approach. (English summary) **2005e:91082**
Khoshyaran, M. The new capitalists: a structural change from the stock market economy to the free market economy. (English summary)
Kibzun, A. I. (*with* Kuznetsov, E. A.) A positional strategy for forming an investment portfolio. (Russian. Russian summary) **2005k:91158**
— (*with* Kuznetsov, E. A.) Comparison of the value-at-risk and conditional value-at-risk criteria. (Russian. Russian summary) **2005k:91159**
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Kim, Taekkeun *see* **Cho, Chung-Ki et al.**, 2005h:91101
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— *see also* **Dahlgren, Martin**, 2005m:91094
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Lai, Tze Leung (*with* Lim, Tiong Wee) Singular stochastic control in optimal investment and hedging in the presence of transaction costs. (English summary) **2005a:91061**
— (*with* Wong, Samuel Po-Shing) Valuation of American options via basis functions. (English summary) **2005b:91121**
— (*with* Lim, Tiong Wee) Exercise regions and efficient valuation of American lookback options. (English summary) **2005f:91070**
Lamper, David (*with* Howison, S. D.) Monte Carlo valuation of American options. (*see* **2005a:00022**)
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Li, San Ping *see* **Xue, Hong-gang et al.**
Li, Sheng Hong[1] *see* **Chen, Shu-ping et al., 2005a:91057**
Li, Shi Yin *see* **Xu, Yong Qing**
Li, Ting (*with* Zhang, Wei Guo[2]) An optimal portfolio under constraints of both VaR and allowing for risk-free lending and borrowing. (Chinese. English and Chinese summaries)
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Li, Xia (*with* Jin, Zhi Ming[1]) The problem of pricing barrier options. (Chinese. English and Chinese summaries)
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Li, Xun[1] *see* **Lari-Lavassani, Ali, 2005e:91084**
Li, Yan (*with* Han, Dong) A necessary condition for the occurrence of infinite size cluster of interacting agents in stock market. (English and Chinese summaries) **2005k:91161**
Li, Zhi Ming (*with* Shi, Ke; Hu, Xijian) The optimal consumption strategy with risk aversion. (English and Chinese summaries)
Li, Zhong Fei (*with* Wang, Shou Yang) Optimal consumption-portfolio selection in frictional markets. (Chinese. English and Chinese summaries)
— *see also* **Deng, Xiao Tie et al., 2005k:91149** *and* **2005k:91150**
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Lim, Andrew E. B. Hedging default risk in an incomplete market. (English summary) **2005e:91085**
— Quadratic hedging and mean-variance portfolio selection with random parameters in an incomplete market. (English summary) **2005b:91123**
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List, John A. (*with* Haigh, Michael S.) A simple test of expected utility theory using professional traders. (English summary)
Liu, Hai Long[1] (*with* Zheng, Li Hui; Wu, Chong Feng) A system approach to the modeling of investors' collective behavior. (Chinese. English and Chinese summaries)
— *see also* **Zhong, Liming et al.**
Liu, Lipei *see* **Su, Chengjian et al., (2005i:42002)**
Liu, San Yang *see* **Yan, Hai Feng et al., 2005h:91126**
Liu, Shao Yue (*with* Yang, Xiang Qun) Pricing of European contingent claim in fractional Brownian motion environment. (Chinese. English and Chinese summaries) **2005i:91063**
— (*with* Yang, Xiang Qun) Pricing of bi-directional European options when underlying asset price submitting to geometric fractional Brownian motion. (Chinese. English and Chinese summaries)
Liu, Tang (*with* Zhang, Pan Ming) Numerical methods for option pricing problems. (Chinese. English and Chinese summaries) **2005h:91114**
Liu, Wei Qi *see* **Meng, Yin Feng, 2005k:91167**
Liu, Wen Ping (*with* Li, Ping[9]; Sun, Zhi Hua) Option pricing formula when interest rates are Markov processes. (Chinese. English and Chinese summaries)
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Liu, Xing *see* **Su, Chengjian et al., (2005i:42002)**
Lu, Guibin (*with* Hu, Qiying) Market-based interest rates: deterministic volatility case. (English summary) **2005f:91071**
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Luo, Jun (*with* Wu, Xiong Hua) Numerical method for pricing Parisian options. (Chinese. English summary)
Luo, Qiu Lan (*with* Chen, You Lu) The study of the capital market line model with a superior asset. (Chinese. English and Chinese summaries)
Lyukov, Alexander Option pricing with feedback effects. (English summary)
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Makowiec, Danuta Deficit in small returns on inefficient market. (English summary)
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— (*with* Alobaidi, Ghada) Interest rate swaps under CIR. (English summary) **2005d:91057**
— *see also* **Alobaidi, Ghada et al., 2005e:91068** *and* **2005f:91060**
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Mamon, Rogemar S. Analytic pricing solutions to term structure derivatives in a Markov chain market. (English summary) **2005e:91087**
Mania, M. G. (*with* Santacroce, Marina; Tevzadze, Revaz) A semimartingale backward equation related to the p-optimal martingale measure and the lower price of a contingent claim. (English summary) **2005f:91072**
— (*with* Tevzadze, Revaz) A semimartingale Bellman equation for the mean-variance hedging problem. (English summary)
— (*with* Tevzadze, Revaz) Backward stochastic PDE and imperfect hedging. (English summary) **2005a:91065**
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— (*with* Xia, Jiang Shan; Wang, Zheng) An interactive approach for portfolio selection with transaction costs. (Chinese. English and Chinese summaries)

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Vetzal, Ken R. *see* **Pooley, David M. et al., (2005i:00014)**
Viarengo, Paolo *see* **Garibaldi, Ubaldo et al., 2005m:91100**
Viceira, Luis M. *see* **Campbell, John Y. et al., 2005b:91107**
Villarroel, Javier On a stochastic interest rate model for bonds. (English summary)
Vitting Andersen, Jørgen Could short selling make financial markets tumble? (English summary)
Voss, D. A. (*with* Khaliq, A. Q. M.; Kazmi, S. H. K.; He, Hao) A fourth order L-stable method for the Black-Scholes model with barrier options. (English summary) (*see* **2005i:00014**)
Wafo Soh, C. *see* **Pooe, C. A. et al., 2005c:91066**
Walsh, John B. The rate of convergence of the binomial tree scheme. (English summary) **2005a:91068**
Wan, Jian Ping *see* **Gu, Wei et al.**
Wan, Kwan Mei *see* **Kamil, Anton Abdulbasah**
Wan, Ning Asymptotic expansion of optimal exercise boundary near expiry for an American option when $r = q$. (Chinese. English and Chinese summaries) **2005k:91177**
Wang, Bo[2] (*with* Meng, Qing Xin) Hedging American contingent claims with constrained portfolios under proportional transaction costs. (English summary) **2005h:91124**
— *see also* **Meng, Qin-xin, 2005c:91065** *and* **Meng, Qing Xin, 2005k:91166**
Wang, Huan Chen *see* **Hou, He Yin**
Wang, J. W. (*with* Zhang, Qing[1]) Pricing defaultable bond with regime switching. (English summary) (*see* **2005b:91010**)
Wang, Li Li *see* **Gu, Wei et al.**
Wang, Shou Yang (*with* Zhu, Shu-Shang) Fuzzy portfolio optimization. (English summary) **2005b:91136**
— *see also* **Fang, Yong et al., 2005d:91048**; **Zhu, Shu-Shang et al., 2005e:91097**; **Deng, Xiao Tie et al., 2005k:91149**; **2005k:91150**; **Li, Zhong Fei** *and* **Chao, Xiuli et al.**
Wang, Song[1] A novel fitted finite volume method for the Black-Scholes equation governing option pricing. (English summary) **2005i:91069**
Wang, Xiong[2] (*with* Yao, Luo Gen; Yang, Xiang Qun) The martingale pricing method about a European up & out call on call option. (Chinese. English and Chinese summaries) **2005h:91125**
Wang, Yongxiang *see* **Wu, Weixing, 2005i:91070**
Wang, Zheng *see* **Rong, Xi Min et al.**
Watada, Junzo (*with* Watanabe, Teruyuki) Solving portfolio problems based on meta-controlled Boltzmann machine. (English summary) **2005k:91178**
— *see also* **Watanabe, Teruyuki et al., 2005k:91179** *and* **Yabuuchi, Yoshiyuki et al.**
Watanabe, Teruyuki (*with* Watada, Junzo; Sugita, Hisato) Fund allocation method based on a block of shares. (English summary) **2005k:91179**
— *see also* **Watada, Junzo, 2005k:91178**
Weiner, Scott M. Should stochastic volatility matter to the cost-constrained investor? (English summary) **2005e:91095**
Wenzelburger, Jan *see* **Böhm, Volker, 2005k:91143**
Weron, Aleksander *see* **Burnecki, Krzysztof et al., 2005k:91144**
Westerhoff, Frank H. Heterogeneous traders, price-volume signals, and complex asset price dynamics.
Westman, John J. *see* **Hanson, Floyd B., 2005b:91116**
Wiberg, Petter *see* **Albanese, Claudio et al., 2005b:91099**
Wichard, Jörg D. (*with* Merkwirth, Christian; Ogorzałek, Maciej) Detecting correlation in stock market. (English summary)
van der Wijst, Nico *see* **Gaĭvoronskiĭ, A. A. et al., 2005m:91097**
Wong, Dennis *see* **Bélanger, Alain et al., 2005j:91037**
Wong, Hoi Ying (*with* Cheung, Ying Lok) Geometric Asian options: valuation and calibration with stochastic volatility. (English summary) **2005e:91096**
— *see also* **Dai, Min[2] et al., 2005b:91109**
Wong, Samuel Po-Shing *see* **Lai, Tze Leung, 2005b:91121**
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Wu, Lixin[2] *see* **Dai, Min[2] et al., 2005e:91072** *and* **Giannetti, Antoine et al.**
Wu, Meng (*with* Huang, Nan Jing; Lee, Byung-Soo) Portfolio selection with transaction costs and different borrowing and lending interest rates in varying capital structure. (English summary) **2005g:91114**
Wu, Weixing (*with* Wang, Yongxiang) Investment with restricted stock and the value of information. (English summary) **2005i:91070**
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Wu, Xiong-wei *see* **Chen, Shu-ping et al., 2005a:91057**
Wu, Yong Hong *see* **Ye, Xiao Qing et al.**
Wu, Zhen *see* **Shi, Jing Tao**

Wybraniec, Jacek The range of American contingent claims prices in the jump-diffusion model. (English summary) **2005b:91137**
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Xia, Jianming Mean-variance portfolio choice: quadratic partial hedging. (English summary) **2005m:91114**
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Xu, Cheng Xian *see* **Xue, Hong-gang et al.**
Xu, Hong-Kun Discrete and continuous-time models of financial derivatives. (English summary) **2005k:91180**
Xu, Mingxin *see* **Večeř, Jan, 2005b:91135**
Xu, Ningxiong *see* **Nozick, Linda K. et al.**
Xu, Shi Meng (*with* Zhang, Yu Zhong[1]) The properties of discount asset optimization under transaction costs. (Chinese. English and Chinese summaries) **2005b:91138**
Xu, Yong Qing (*with* Li, Shi Yin) The valuation formulas of reset put option with the jump-diffusion process. (Chinese. English and Chinese summaries)
Xu, Zhi Yan The growth optimal portfolio in a general market driven by jump-diffusion processes. (English and Chinese summaries) **2005g:91115**
Xue, Hong-gang (*with* Xu, Cheng Xian; Li, San Ping; Miao, Bao Shan) VaR method and its empirical research in financial risk management. (Chinese. English and Chinese summaries)
Xue, Ming Gao A consumption-investment growth model. (Chinese. English and Chinese summaries)
Yabuuchi, Yoshiyuki (*with* Watada, Junzo; Toyoura, Yoshihiro) Fuzzy AR model of stock price. (English summary)
Yan, Hai Feng (*with* Liu, San Yang; Li, Wen Qiang) Pricing options on the maximum of stocks driven by Ornstein-Uhlenbeck processes. (Chinese. English and Chinese summaries) **2005h:91126**
Yang, Deane *see* **Kalotay, Andrew et al.**
Yang, Hailiang *see* **Cheung, Ka Chun, 2005h:91100** *and* **Deng, Xiao Tie et al., 2005k:91149**
Yang, Hongtao American put options on zero-coupon bonds and a parabolic free boundary problem. (English summary) **2005i:91071**
Yang, Ming (*with* Li, Chu Lin) The optimal hedge ratio for uncertain multi-foreign currency cash flow. (English summary) **2005c:91068**
Yang, Xiang Qun *see* **Wang, Xiong[2] et al., 2005h:91125**; **Liu, Shao Yue, 2005i:91063** *and* **Ou, Hui**
Yang, Xiao Ping[1] *see* **Chen, Ping[3] et al., 2005e:91071**
Yang, Zhaojun (*with* Huang, Li Hong[1]) Optimal portfolio strategies with a liability and random risk: the case of different lending and borrowing rates. (English summary) **2005m:91115**
Yao, Luo Gen *see* **Wang, Xiong[2] et al., 2005h:91125**
Yavin, Y. *see* **Frangos, C. et al., 2005f:91069**
Ye, Xiao Qing (*with* Jian, Ming; Wu, Yong Hong) Portfolio three-parameter model with transaction cost and short sale restriction. (Chinese. English and Chinese summaries)
Ye, Zhong Xing *see* **Chen, Wen Cai, 2005c:91053** *and* **Chen, Ping[3] et al., 2005e:91071**
Yildirim, Yildiray *see* **Çetin, Umut et al., 2005e:91070**
Yılmaz, Bilge *see* **Chakraborty, Archishman, 2005h:91099**
Yin, Gang George (*with* Zhou, Xun Yu) Markowitz's mean-variance portfolio selection with regime switching: from discrete-time models to their continuous-time limits. (English summary) **2005b:91139**
— *see also* **Zhang, Qing[1], 2005d:91063**
Yiu, K. F. C. Optimal portfolios under a value-at-risk constraint. (English summary) **2005f:91081**
Yor, Marc *see* **Carr, Peter Paul et al., 2005a:91054**
Yoshida, Yuji A discrete-time European options model under uncertainty in financial engineering. (English summary) (*see* **2005b:90008**)
Young, Virginia R. Pricing in an incomplete market with an affine term structure. (English summary) **2005d:91062**
Yu, Bin[3] *see* **Glasserman, Paul, (2005b:65002)**
Yu, Jian She *see* **Guo, Zhi Ming et al.**
Yu, Mei[1] *see* **Chao, Xiuli et al.**
Yuan, Gui Qiu (*with* Ding, Zheng Zhong) Principles of pricing the fixed-rate mortgage. (Chinese. English and Chinese summaries)
— *see also* **Bian, Bao Jun et al.**
Yuan, Qing Sheng (*with* Dong, Cheng Fei; Huang, Jian Guo) A Riemannian geometry underlying stochastic algorithm for log-optimal portfolio problem with risk control. (Chinese. English and Chinese summaries) **2005f:91082**
Yumae, Shoji *see* **Iwaki, Hideki, 2005h:91111**
Yung, Siu Pang *see* **Chan, Pui-Kit et al., 2005a:91055**
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Zapatero, Fernando *see* **Lazrak, Ali, 2005a:91062**
Zariphopoulou, Thaleia *see* **Musiela, Marek, 2005j:91044**
Zeng, Yong[1] Estimating stochastic volatility via filtering for the micromovement of asset prices. (English summary) **2005c:91069**
Zenios, Stavros A. *see* **Frangos, C. et al., 2005f:91069** *and* **Jobst, Norbert J.**
Zhang, Jing[3] Branch-bound method for portfolio investment decision under nonnegative constraint. (Chinese. English and Chinese summaries)
Zhang, Li Hong[1] Upper bounds for ruin probability with stochastic investment return. (English summary) **2005j:91046**
Zhang, Pan Ming *see* **Liu, Tang, 2005h:91114**
Zhang, Qing[1] (*with* Yin, Gang George) Nearly-optimal asset allocation in hybrid stock investment models. (English summary) **2005d:91063**
— *see also* **Guo, Xin, 2005h:91108** *and* **Wang, J. W., (2005b:91010)**
Zhang, Shi Bin (*with* Fu, Chang Qing; Lao, Lan Jun) The structure of a market with default risk and the pricing of defaultable American contingent claims without any recovery. (Chinese. English and Chinese summaries) **2005d:91064**
Zhang, Wei David Risk aversion, public disclosure, and long-lived information. (English summary)
Zhang, Wei Guo[2] (*with* Nie, Zan Kan) On admissible efficient portfolio selection problem. (English summary) **2005g:91116**
— *see also* **Li, Ting**
Zhang, Yu Zhong[1] *see* **Xu, Shi Meng, 2005b:91138**
Zheng, Li Hui *see* **Liu, Hai Long[1] et al.**
Zheng, Lin *see* **Tian, Jian Bo**
Zheng, Wei Min (*with* Shu, Jiwu; Deng, Xiao Tie; Gu, Yong Geng) Parallel computing method of valuing for multi-asset European option. (English summary) (*see* **2005c:00015**)
Zhimbo, È. K. On a final value problem connected with the B-S model. (English summary) **2005i:91072**
— (*with* Djouguela, A. F.; Ngongo, I. S.) Computation and stability of the implied volatility. (English summary) (*see* **2005i:00016**)
— (*with* Bozeman, Robert; Djounguela, A.; Suzuki, Takeru) Optimum values search in a martingale financial market. (English summary) **2005h:91127**
Zhong, Liming (*with* Liu, Hai Long[1]; Wu, Chong Feng) Optimal control strategy of institutional investor's execution cost. (English and Chinese summaries)
Zhong, Rui *see* **Giannetti, Antoine et al.**
Zhou, Xun Yu *see* **Yin, Gang George, 2005b:91139** *and* **Bielecki, Tomasz R. et al., 2005m:91090**
Zhu, Shu-Shang (*with* Li, Duan; Wang, Shou Yang) Risk control over bankruptcy in dynamic portfolio selection: a generalized mean-variance formulation. (English summary) **2005e:91097**
— *see also* **Wang, Shou Yang, 2005b:91136**
Zhu, You-Lan Three-factor interest rate models. (English summary) **2005g:91117**
Zhuang, Xin-tian (*with* Huang, Xiao-yuan; Sha, Yan-li) Research on the fractal structure in the Chinese stock market. (English summary) **2005f:91083**
Ziegler, Alexandre ★ A game theory analysis of options. **2005c:91070**
Ziemba, William T. *see* **Rudolf, Markus, 2005b:91130**
(Zimmermann, Heinz) *see* **Ziegler, Alexandre, 2005c:91070**
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Žitković, Gordan Utility maximization with a stochastic clock and an unbounded random endowment. (English summary) **2005h:91128**
Zmeškal, Zdeněk Value at risk methodology under soft conditions approach (fuzzy-stochastic approach). (English summary) **2005e:91098**

Items with secondary classifications in 91B28

(Abramson, David) *see* **Computational science—ICCS 2003. Part II, 2005c:00015**
Aczel, Amir D. ★ Chance. **2005h:00005**
(Ahr, Dino) *see* **Proceedings: Operations Research, 2003, 2005d:90005**
Albanese, Claudio (*with* Kuznetsov, Alexey Evgenievich) Affine lattice models. (English summary) **2005k:60264**
Albrecher, Hansjörg (*with* Hartinger, Jürgen; Tichy, Robert F.) Multivariate approximation methods for the pricing of catastrophe-linked bonds. (English summary) (*see* **2005a:41001**)
Alessio, E. *see* **Krivoruchenko, M. I. et al., 2005h:62248**
Allen, Franklin (*with* Gale, Douglas) Financial intermediaries and markets. (English summary) **2005a:91085**
Almendral Vázquez, A. (*with* Oosterlee, Cornelis W.) Numerical valuation of options with jumps in the underlying. (English summary) **2005j:65079**
Alós-Ferrer, Carlos (*with* Ania, Ana B.) The asset market game. (English summary) **2005k:91009**
Amadori, Anna Lisa (*with* Karlsen, Kenneth H.; La Chioma, Claudia) Non-linear degenerate integro-partial differential evolution equations related to geometric Lévy processes and applications to backward stochastic differential equations. (English summary) **2005e:60114**
An, Hong-zhi *see* **Li, Hui[8] et al., 2005g:62012**
Andersen, Torben G. (*with* Bollerslev, Tim; Meddahi, Nour) Analytical evaluation of volatility forecasts. (English summary) **2005e:60144**
Anderson, C. K. (*with* Davison, Matt; Rasmussen, Henning) Revenue management: a real options approach. (English summary) **2005a:90007**
Anderson, Patrick L. ★ Business economics and finance with Matlab®, GIS, and simulation models. **2005c:91002**
Andricopoulos, Ari D. *see* **Widdicks, Martin et al., 2005k:35206**
Andriopoulos, K. *see* **Naicker, V. et al., 2005k:35009**
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Applebaum, David Lévy processes—from probability to finance and quantum groups. **2005j:60096**
Aquilina, J. (*with* Rogers, L. C. G.) The squared Ornstein-Uhlenbeck market. (English summary) **2005e:91058**
Arkin, Vadim I. (*with* Slastnikov, A. D.) Optimal stopping problem and investment models. (English summary) **2005e:60090**
Audet, Charles (*with* Hansen, Pierre; Le Digabel, Sébastien) Exact solution of three nonconvex quadratic programming problems. (English summary) **2005a:90118**
Aurell, Erik (*with* Muratore-Ginanneschi, Paolo) Growth-optimal strategies with quadratic friction over finite-time investment horizons. (English summary)
Avram, Florin (*with* Kyprianou, Andreas E.; Pistorius, Martijn R.) Exit problems for spectrally negative Lévy processes and applications to (Canadized) Russian options. (English summary) **2005c:60053**
Back, Kerry (*with* Bielecki, Tomasz R.; Hipp, Christian; Peng, Shi Ge; Schachermayer, Walter) ★ Stochastic methods in finance. **2005h:91003**
Bakstein, David *see* **Capasso, Vincenzo, 2005g:60001**
Balbas de la Corte, Alejandro (*with* Romera, Rosario; Ruiz, Esther) An overview of probabilistic and time series models in finance. (English summary) (*see* **2005f:60007**)
Bally, Vlad (*with* Pagès, Gilles) A quantization algorithm for solving multi-dimensional discrete-time optimal stopping problems. (English summary) **2005f:60096**
— The central limit theorem for a nonlinear algorithm based on quantization. (English summary) **2005b:60047**
Barndorff-Nielsen, Ole E. (*with* Nielsen, Bent; Shephard, Neil; Ysusi, Carla) Measuring and forecasting financial variability using realised variance. (English summary) (*see* **2005c:62005**)
— (*with* Shephard, Neil) Econometric analysis of realized covariation: high frequency

based covariance, regression, and correlation in financial economics. (English summary) **2005a:62046**

— (*with* Graversen, Svend Erik; Shephard, Neil) Power variation and stochastic volatility: a review and some new results. (English summary) **2005e:60145**

Barone Adesi, Giovanni (*with* Gagliardini, Patrick; Urga, Giovanni) Testing asset pricing models with coskewness. (English summary)

Barrieu, Pauline (*with* El Karoui, Nicole) Optimal derivatives design under dynamic risk measures. (English summary) **2005f:28006**

Bartholomew-Biggs, Michael ★ Nonlinear optimization with financial applications. **2005h:90002**

Baudoin, Fabrice Modeling anticipations on financial markets. (English summary) **2005a:60099**

Bayraktar, Erhan (*with* Poor, H. Vincent; Sircar, K. Ronnie) Estimating the fractal dimension of the S&P 500 index using wavelet analysis. (English summary) **2005c:62145**

Becherer, Dirk (*with* Schweizer, Martin) Classical solutions to reaction-diffusion systems for hedging problems with interacting Itô and point processes. (English summary) **2005k:60211**

Benati, Stefano The computation of the worst conditional expectation. (English summary) **2005k:90076**

Benth, F. E. (*with* Karlsen, Kenneth H.; Reikvam, K.) A semilinear Black and Scholes partial differential equation for valuing American options: approximate solutions and convergence. (English summary) **2005h:65127**

Berezneva, T. D. On the boundedness of budget sets in mathematical economic models with financial markets. (Russian. Russian summary) **2005j:91031**

van den Berg, Jan (*with* Kaymak, Uzay; van den Bergh, Willem-Max) Financial markets analysis by using a probabilistic fuzzy modelling approach. (English summary) **2005b:91184**

van den Bergh, Willem-Max *see* **van den Berg, Jan et al., 2005b:91184**

Bermúdez, Ana (*with* Nogueiras, María R.) Numerical solution of two-factor models for valuation of financial derivatives. (English summary) **2005c:65084**

Bertsimas, Dimitris (*with* Sim, Melvyn) The price of robustness. (English summary) **2005a:90092**

Beuchler, S. (*with* Schneider, Reinhold; Schwab, Christoph) Multiresolution weighted norm equivalences and applications. (English summary) **2005g:65199**

Bhansali, Vineer *see* **Wise, Mark B. et al.**

Bhattacharya, Sukanto ★ Utility, rationality and beyond—from behavioral finance to informational finance. **2005m:91001**

Biagini, Francesca (*with* Øksendal, Bernt K.) Minimal variance hedging for fractional Brownian motion. (English summary) **2005b:60135**

Bian, Bao Jun *see* **Chen, Yi, 2005i:35081**

Bianchi, Sergio Pathwise identification of the memory function of multifractional Brownian motion with application to finance. (English summary) **2005k:60118**

Bielecki, Tomasz R. (*with* Björk, Tomas; Jeanblanc-Picqué, Monique; Rutkowski, Marek; Scheinkman, José A.; Xiong, Wei[2]) ★ Paris-Princeton Lectures on Mathematical Finance 2003. **2005g:91008**

— (*with* Jeanblanc-Picqué, Monique; Rutkowski, Marek) Modeling and valuation of credit risk. **2005i:91073**

— *see also* **Back, Kerry et al., 2005h:91003**

Bish, Ebru K. (*with* Wang, Qiong) Optimal investment strategies for flexible resources, considering pricing and correlated demands. (English summary) **2005g:91127**

Björk, Tomas *see* **Bielecki, Tomasz R. et al., 2005g:91008**

(Bogdanov, A. V.) *see* **Computational science—ICCS 2003. Part II, 2005c:00015**

Boguslavskaya, E. V. On the optimization of long-term irreversible investments in a diffusion model. (Russian. Russian summary) **2005b:60208**

Böhm, Volker (*with* Chiarella, Carl) Mean variance preferences, expectations formation, and the dynamics of random asset prices. (English summary) **2005k:91112**

Bollerslev, Tim *see* **Andersen, Torben G. et al., 2005e:60144**

Borodin, Allan (*with* El-Yaniv, Ran; Gogan, Vincent) Can we learn to beat the best stock. (English summary)

Bottazzi, Giulio (*with* Devetag, Giavanna) Expectations structure in asset pricing experiments. (English summary) (*see* **2005j:91003**)

— (*with* Dosi, Giovanni; Rebesco, Igor) Institutional architectures and behavioral ecologies in the dynamics of financial markets. (English summary)

Bouchard, Bruno (*with* Touzi, Nizar; Zeghal, Amina) Dual formulation of the utility maximization problem: the case of nonsmooth utility. (English summary) **2005a:91042**

Bouchaud, Jean-Philippe (*with* Muzy, Jean-François) Financial time series: from Batchelier's random walks to multifractal 'cascades'. (English summary) (*see* **2005a:00023**)

Boulcau, Nicolas ★ Error calculus for finance and physics: the language of Dirichlet forms. **2005g:60003**

Boyarchenko, Svetlana Arrow's equivalency theorem in a model with neoclassical firms. (English summary) **2005d:91074**

Boyarintseva, N. S. (*with* Khametov, V. M.) A new theorem on the representation of martingales (discrete time). (Russian. Russian summary) **2005h:60126**

Boyle, Phelim P. Finance: a fertile field for applications of MC and QMC. (English summary) (*see* **2005b:65002**)

Brandão, Luiz E. (*with* Dyer, James S.) Decision analysis and real options: a discrete time approach to real option valuation. (English summary)

Braun, Stephen (*with* Mitchell, John E.) A semidefinite programming heuristic for quadratic programming problems with complementarity constraints. (English summary) **2005k:90224**

Briani, Maya (*with* La Chioma, Claudia; Natalini, Roberto) Convergence of numerical schemes for viscosity solutions to integro-differential degenerate parabolic problems arising in financial theory. (English summary) **2005k:65187**

Brock, William A. (*with* Hommes, Cars H.; Wagener, Florian O. O.) Evolutionary dynamics in markets with many trader types. (English summary) **2005k:91119**

Brzozowska-Rup, Katarzyna (*with* Orłowski, Arkadiusz) Application of bootstrap to detecting chaos in financial time series. (English summary) **2005j:91062**

Bungartz, H.-J. (*with* Dirnstorfer, S.) Multivariate quadrature on adaptive sparse grids. (English summary) **2005a:65020**

Burnecki, Krzysztof (*with* Weron, Aleksander) Lévy stable processes. From stationary to self-similar dynamics and back. An application to finance. (English summary)

Capasso, Vincenzo (*with* Bakstein, David) ★ An introduction to continuous-time stochastic processes. **2005g:60001**

Capobianco, Enrico Multiscale stochastic dynamics in finance. (English summary)

Carbone, Anna (*with* Castelli, G.; Stanley, H. Eugene) Time-dependent Hurst exponent in financial time series. (English summary) **2005h:62235**

Carbone, Raffaella Binomial approximation of Brownian motion and its maximum. (English summary) **2005h:60247**

Carmona, René (*with* Tehranchi, Michael) A characterization of hedging portfolios for interest rate contingent claims. (English summary) **2005d:60100**

— *see also* **Bielecki, Tomasz R. et al., 2005g:91008**

Carrière, J. F. Martingale valuation of cash flows for insurance and interest models. (English summary)

Castañeda-Leyva, Netzahualcóyotl (*with* Hernández-Hernández, Daniel) Optimal portfolio management with consumption. (English summary) **2005e:93032**

Castelli, G. *see* **Carbone, Anna et al., 2005h:62235**

Chambers, Robert G. (*with* Quiggin, John) Linear-risk-tolerant, invariant risk preferences. (English summary) **2005m:91055**

Chan, Raymond H. (*with* Chen, Yong; Yeung, K. M.) A memory reduction method in pricing American options. (English summary) **2005h:65007**

— *see also* **Wong, Wing-Keung, 2005h:62288**

Chen, Dian-fa Optimal premium in randomly constrained markets. (English and Chinese summaries) **2005b:60163**

Chen, Jie Asymptotic behavior of free boundary in a model for the value of equity-linked policy. (Chinese. English and Chinese summaries)

Chen, Max (*with* Hong, Yongmiao) Has Chinese stock market become efficient? Evidence from a new approach. (English summary) (*see* **2005c:00015**)

Chen, Ping[3] (*with* Yang, Xiao Ping[1]) Wavelet estimation of the diffusion coefficients in asset equations. (Chinese. English and Chinese summaries) **2005h:60197**

Chen, Ping[5] (*with* Islam, Sardar M. N.) ★ Optimal control models in finance. **2005f:91002**

Chen, Shyh-Wei (*with* Shen, Chung-Hua) GARCH, jumps and permanent and transitory components of volatility: the case of the Taiwan exchange rate. (English summary) **2005i:91093**

Chen, Yi (*with* Bian, Bao Jun) Comparison principle for viscosity solutions of a fully nonlinear elliptic integro-differential equation. (Chinese. English and Chinese summaries) **2005i:35081**

Chen, Yong *see* **Chan, Raymond H. et al., 2005h:65007**

Chen, Zhi Ping Existence, uniqueness, and determinacy of a nonnegative equilibrium price vector in asset markets with general utility functions and an elliptical distribution. (English summary) **2005e:91057**

Cheng, Ling (*with* Gao, Hong Wei[2]; Qiao, Han) An economics experiment analyses on Chinese stock market. (English and Chinese summaries)

Cheng, Qian Sheng *see* **Wu, Guang Xu et al., 2005m:62194**

Chern, I-Liang *see* **Zhu, You-Lan et al., 2005i:91002**

Chernyĭ, A. S. *see* **Shiryaev, Albert N., 2005b:60136**

Cheung, Ka Chun (*with* Yang, Hailiang) Asset allocation: investment strategies for financial and insurance portfolio. **2005a:60100**

Chiarella, Carl *see* **Böhm, Volker, 2005k:91112**

Chuang, Bor-Ren (*with* Ouyang, Liang-Yuh; Lin, Yu-Jen) Investing in lost sales reduction on periodic review inventory model with a service level constraint. (English summary)

Chuprunov, A. N. (*with* Rusakov, O. V.) Convergence for step-line processes under summation of random indicators and models of market pricing. **2005h:60062**

Cincotti, Silvano *see* **Raberto, Marco et al., (2005j:91003)**

(Çinlar, E.) *see* **Bielecki, Tomasz R. et al., 2005g:91008**

Clímaco, João Carlos Namorado *see* **Costa, João Paulo et al.**

Colombo, Fabrizio (*with* Giuli, Massimiliano; Vespri, Vincenzo) A semigroup approach to no-arbitrage pricing theory: constant elasticity variance model and term structure models. **2005g:34125**

Conde, Eduardo An improved algorithm for selecting p items with uncertain returns according to the minmax-regret criterion. (English summary) **2005b:90155**

Coolen, A. C. C. ★ The mathematical theory of minority games. **2005k:91001**

Cortés López, Juan Carlos (*with* Jódar, Lucas; Sala, R.; Sevilla-Peris, Pablo) Exact and numerical solution of Black-Scholes matrix equation. (English summary)

— *see also* **Jódar, Lucas et al., 2005h:35171**

Costa, João Paulo (*with* Godinho, Pedro Cortesão; Clímaco, João Carlos Namorado) Exploring financial strategies: a multiobjective visual reference point approach. (English summary)

Dahan, Merav (*with* Frostig, Esther; Langberg, Naftali A.) Insurance contracts portfolios with heterogenous insured ages. (English summary) **2005e:91100**

Dahl, Mikkel Stochastic mortality in life insurance: market reserves and mortality-linked insurance contracts. (English summary)

Danelia, Akaki (*with* Dochviri, Besarion; Shashiashvili, Malkhaz) Stochastic variational inequalities and optimal stopping: applications to the robustness of the portfolio/consumption processes. (English summary) **2005a:60102**

Dash, Jan W. ★ Quantitative finance and risk management. **2005h:91001**

Davison, Matt *see* **Anderson, C. K. et al., 2005a:90007**

D'Ecclesia, Rita L. Financial modelling and risk management.

De Donno, Marzia (*with* Pratelli, Maurizio) On the use of measure-valued strategies in bond markets. (English summary) **2005e:60112**

Dempster, M. A. H. Sequential importance sampling algorithms for dynamic stochastic programming. (English and Russian summaries) **2005k:90090**

Devetag, Giavanna *see* **Bottazzi, Giulio, (2005j:91003)**

Diks, Cees The correlation dimension of returns with stochastic volatility. (English summary) **2005b:62213**

Dirnstorfer, S. *see* **Bungartz, H.-J., 2005a:65020**

Dochviri, Besarion *see* **Danelia, Akaki et al., 2005a:60102**

Dombrovskiĭ, D. V. *see* **Dombrovskiĭ, V. V. et al., 2005k:93237**

Dombrovskiĭ, V. V. (*with* Lyashenko, E. A.) Linear-quadratic control of discrete systems with random parameters and multiplicative noise with an application to the optimization of an investment portfolio. (Russian. Russian summary) **2005e:49069**

— (*with* Dombrovskiĭ, D. V.; Lyashenko, E. A.) Predictive control of systems with random parameters and multiplicative noise with application to the optimization of an investment portfolio. (Russian. Russian summary) **2005k:93237**
(Dongarra, Jack J.) *see* **Computational science—ICCS 2003. Part II, 2005c:00015**
Dose, Christian *see* **Raberto, Marco et al., (2005j:91003)**
Dosi, Giovanni *see* **Bottazzi, Giulio et al.**
Dshalalow, Jewgeni H. Fluctuations of recurrent processes and their applications to the stock market. (English summary) **2005d:60140**
Du, Li Jin *see* **Tang, Si Ying et al., 2005f:60099**
Dubey, Pradeep (*with* Geanakoplos, John; Shubik, Martin) Default and punishment in general equilibrium. (English summary) **2005k:91198**
Duck, Peter W. *see* **Widdicks, Martin et al., 2005k:35206**
Dufresne, Daniel The log-normal approximation in financial and other computations. (English summary) **2005g:60126**
Duncan, Tyrone E. Some processes associated with a fractional Brownian motion. (English summary) **2005h:60109**
Düring, Bertram (*with* Fournié, Michel; Jüngel, Ansgar) Convergence of a high-order compact finite difference scheme for a nonlinear Black-Scholes equation. (English summary) **2005h:65132**
Dyer, James S. *see* **Brandão, Luiz E.**
Eastman, Warren *see* **Ökten, Giray, 2005g:65018**
Ehrgott, Matthias (*with* Klamroth, Kathrin; Schwehm, Christian) An MCDM approach to portfolio optimization. (English summary) **2005a:90086**
(Ekeland, Ivar) *see* **Bielecki, Tomasz R. et al., 2005g:91008**
(Ekhaguere, G. O. S.) *see* **Contemporary applications of the mathematical and computer sciences to development problems, 2005j:00013**
Ekström, Erik Properties of American option prices. (English summary) **2005h:60122**
El Karoui, Nicole *see* **Barrieu, Pauline, 2005f:28006**
Elliott, Robert J. (*with* van der Hoek, John) Pricing claims on non tradable assets. (English summary) **2005b:91080**
— (*with* Kopp, P. Ekkehard) ★ Mathematics of financial markets. **2005g:91001**
— *see also* **Wu, P., 2005i:93086**
El-Yaniv, Ran *see* **Borodin, Allan et al.**
Ewald, Christian-Oliver Optimal logarithmic utility and optimal portfolios for an insider in a stochastic volatility market. (English summary) **2005m:60140**
Faggian, Silvia Regular solutions of first-order Hamilton-Jacobi equations for boundary control problems and applications to economics. (English summary) **2005i:49031**
(Fahrion, R.) *see* **Proceedings: Operations Research, 2003, 2005d:90005**
Fan, Gang-Zhi *see* **Sing, Tien Foo et al., 2005m:91122**
Farto, José Vaquero (*with* Vázquez Cendón, C.) Numerical techniques for pricing callable bonds with notice. (English summary) **2005j:65109**
Feldmann, D. (*with* Härdle, Wolfgang K.; Hafner, Christian M.; Hoffmann, Marc; Lepskiĭ, O. V.; Tsybakov, A. B.) Testing linearity in an AR errors-in-variables model with application to stochastic volatility. (English summary) **2005b:62083**
Filipović, Damir[1] (*with* Teichmann, Josef) On the geometry of the term structure of interest rates. (English summary) **2005b:60145**
— Time-inhomogeneous affine processes. (English summary) **2005m:60160**
Flaherty, Joseph E. *see* **Sapariuc, I. et al., 2005g:65132**
Fleming, Wendell H. (*with* Pang, Tao[2]) An application of stochastic control theory to financial economics. (English summary) **2005d:93147**
Focardi, Sergio M. *see* **Raberto, Marco et al., (2005j:91003)**
Föllmer, Hans (*with* Horst, Ulrich; Kirman, Alan P.) Equilibria in financial markets with heterogeneous agents: a probabilistic perspective. (English summary) **2005i:91077**
Forsyth, Peter A. *see* **d'Halluin, Y. et al., 2005d:65136** *and* **2005k:65172**
Fouque, Jean-Pierre (*with* Han, Chuan-Hsiang) Asian options under multiscale stochastic volatility. (English summary) **2005h:91075**
— (*with* Papanicolaou, George; Sircar, K. Ronnie) Stochastic volatility and correction to the heat equation. (English summary) **2005m:60141**
Fournié, Michel *see* **Düring, Bertram et al., 2005h:65132**
Framstad, Nils Chr. (*with* Øksendal, Bernt K.; Sulem, Agnès) Sufficient stochastic maximum principle for the optimal control of jump diffusions and applications to finance. (English summary) **2005d:93148**
— (*with* Øksendal, Bernt K.; Sulem, Agnès) Errata corrige: "Sufficient stochastic maximum principle for the optimal control of jump diffusions and applications to finance" [J. Optim. Theory Appl. **121** (2004), no. 1, 77–98; MR2062971 (2005d:93148)]. (English summary) **2005j:93079**
Franke, Jürgen (*with* Härdle, Wolfgang K.; Hafner, Christian M.) ★ Statistics of financial markets. **2005g:91002**
Frankiewicz, Ewa Pricing of a defaultable coupon bond in an extended Merton's model. (English summary) **2005k:60234**
Frappietro, V. *see* **Krivoruchenko, M. I. et al., 2005h:62248**
Frauendorfer, Karl (*with* Schürle, Michael) Management of non-maturing deposits by multistage stochastic programming. (English summary) **2005b:91179**
Frisch, J. C. *see* **Oosterlee, Cornelis W. et al., 2005a:65088**
(Frittelli, Marco) *see* **Back, Kerry et al., 2005h:91003**
Frostig, Esther *see* **Dahan, Merav et al., 2005e:91100**
Gagliardini, Patrick *see* **Barone Adesi, Giovanni et al.**
Gaier, J. (*with* Grandits, Peter) Ruin probabilities and investment under interest force in the presence of regularly varying tails. (English summary) **2005k:91182**
Gale, Douglas *see* **Allen, Franklin, 2005a:91085**
Gáll, József (*with* Pap, Gyula[1]; Van Zuijlen, Martien C. A.) Maximum likelihood estimator of the volatility of forward rates driven by geometric spatial AR sheet. (English summary) **2005g:62179**
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Gaspar, Francisco J. *see* **Oosterlee, Cornelis W. et al., 2005a:65088**
Geanakoplos, John *see* **Dubey, Pradeep et al., 2005k:91198**
Gerrard, Russell (*with* Haberman, Steven; Vigna, Elena) Optimal investment choices post-retirement in a defined contribution pension scheme. (English summary) **2005g:91119**
Giuli, Massimiliano *see* **Colombo, Fabrizio et al., 2005g:34125**
Glasserman, Paul (*with* Yu, Bin[3]) Number of paths versus number of basis functions in American option pricing. (English summary) **2005j:60086**
Godinho, Pedro Cortesão *see* **Costa, João Paulo et al.**
Gogan, Vincent *see* **Borodin, Allan et al.**
Goll, Thomas (*with* Kallsen, Jan) A complete explicit solution to the log-optimal portfolio problem. (English summary) **2005d:60070**
Gontis, V. (*with* Kaulakys, B.) Modeling financial markets by the multiplicative sequence of trades. (English summary)
Goovaerts, Marc J. *see* **Hoedemakers, Tom**
(Gorbachev, Yu. E.) *see* **Computational science—ICCS 2003. Part II, 2005c:00015**
Grandits, Peter An analogue of the Cramér-Lundberg approximation in the optimal investment case. (English summary) **2005f:91085**
— *see also* **Gaier, J., 2005k:91182**
Grasselli, M. R. (*with* Hurd, T. R.) Wiener chaos and the Cox-Ingersoll-Ross model. (English summary) **2005h:60198**
Graversen, Svend Erik *see* **Barndorff-Nielsen, Ole E. et al., 2005e:60145**
Große, Ivo *see* **Podobnik, Boris et al.**
Guerra, Maria Letizia (*with* Sorini, Laerte) Testing robustness in calibration of stochastic volatility models. (English summary)
(Gundlach, Matthias) *see* **CreditRisk$^+$ in the banking industry, 2005c:91007**
Guo, Wen-Chung *see* **Wu, Ho-Mou, 2005d:91042**
Guo, Xin (*with* Pham, Huyên) Optimal partially reversible investment with entry decision and general production function. (English summary) **2005m:60143**
Guo, Zi Jun Pricing of options with the rate of mean reverting processes. (Chinese. English and Chinese summaries) **2005i:60130**
Haberman, Steven *see* **Gerrard, Russell et al., 2005g:91119**
Hafner, Christian M. *see* **Feldmann, D. et al., 2005b:62083** *and* **Franke, Jürgen et al., 2005g:91002**
Hafner, Reinhold ★ Stochastic implied volatility. **2005c:91003**
Hałaj, Grzegorz Optimization of consumption with partial observation—Jensen inequality method. (English summary)
d'Halluin, Y. (*with* Forsyth, Peter A.; Labahn, George) A penalty method for American options with jump diffusion processes. (English summary) **2005d:65136**
— (*with* Forsyth, Peter A.; Vetzal, Ken R.) Robust numerical methods for contingent claims under jump diffusion processes. (English summary) **2005k:65172**
Han, Chuan-Hsiang *see* **Fouque, Jean-Pierre, 2005h:91075**
Hansen, Frank Lower bounds on products of correlation coefficients. (English summary) **2005b:46049**
Hansen, Pierre *see* **Audet, Charles et al., 2005a:90118**
Hanson, Floyd B. (*with* Westman, John J.; Zhu, Zongwu) Multinomial maximum likelihood estimation of market parameters for stock jump-diffusion models. (English summary) **2005g:60131**
Härdle, Wolfgang K. *see* **Feldmann, D. et al., 2005b:62083** *and* **Franke, Jürgen et al., 2005g:91002**
Harris, Richard D. F. (*with* Tzavalis, Elias) Testing for unit roots in dynamic panels in the presence of a deterministic trend: re-examining the unit root hypothesis for real stock prices and dividends. (English summary) **2005b:62181**
Hartinger, Jürgen *see* **Albrecher, Hansjörg et al., (2005a:41001)**
Hautsch, Nikolaus ★ Modelling irregularly spaced financial data. **2005c:91004**
Helmes, Kurt Computing optimal selling rules for stocks using linear programming. (English summary) **2005m:90061**
Hens, Thorsten (*with* Reimann, Stefan; Vogt, Bodo) Nash competitive equilibria and two-period fund separation. (English summary) **2005b:91018**
— (*with* Schenk-Hoppé, Klaus Reiner) Evolutionary finance: introduction to the special issue. (English summary)
Hernández-Hernández, Daniel *see* **Castañeda-Leyva, Netzahualcóyotl, 2005e:93032**
Herzberg, Frederik S. The fairest price of an asset in an environment of temporary arbitrage. (English summary) **2005k:91115**
Heyde, Christopher C. *see* **Wong, Bernard, 2005d:60101**
Higham, Desmond J. ★ An introduction to financial option valuation. **2005b:91002**
Hipp, Christian *see* **Back, Kerry et al., 2005h:91003**
Hoedemakers, Tom (*with* Goovaerts, Marc J.) Comment on: "Risk and discounted loss reserves" [N. Am. Actuar. J. **8** (2004), no. 1, 37–44; MR2039871 (2005a:62233)] by G. Taylor.
van der Hoek, John *see* **Elliott, Robert J., 2005b:91080**
Hoffmann, Marc *see* **Feldmann, D. et al., 2005b:62083**
Hołyst, Janusz A. (*with* Nowak, Maciej A.) Editorial [Applications of physics in financial analysis 4 (APFA4)].
— *see also* **Urbanowicz, Krzysztof, 2005g:91159**
Hommes, Cars H. *see* **Brock, William A. et al., 2005k:91119**
Hong, Yongmiao *see* **Chen, Max, (2005c:00015)**
Hörfelt, Per Geometric bounds on certain sublinear functionals of geometric Brownian motion. (English summary) **2005b:60215**
Horst, Ulrich *see* **Föllmer, Hans et al., 2005i:91077**
Hou, Chunli (*with* Karatzas, Ioannis) Least-squares approximation of random variables by stochastic integrals. (English summary) **2005g:60105**
Hu, Yaozhong Optimization of consumption and portfolio and minimization of volatility. (English summary) **2005h:60157**
— (*with* Øksendal, Bernt K.; Salopek, Donna Mary) Weighted local time for fractional Brownian motion and applications to finance. (English summary) **2005m:60119**
Huang, Hui Min (*with* Sun, Xiao Ming[1]) Extended financial equilibrium with weighted incomplete real asset markets: the case of restricted participation. (Chinese. English and Chinese summaries)
Huang, Kevin X. D. (*with* Werner, Jan) Implementing Arrow-Debreu equilibria by trading infinitely-lived securities. (English summary) **2005c:91084**
Huberman, Gur (*with* Stanzl, Werner) Price manipulation and quasi-arbitrage. (English summary) **2005a:91038**
Hudson, Richard L. *see* **Mandelbrot, Benoît B., 2005g:91004**
Huisman, Kuno J. M. (*with* Kort, Peter M.) Strategic technology adoption taking into account future technological improvements: a real options approach. (English summary) **2005b:91035**

Hunt, P. J. (*with* Kennedy, Joanne) ★ Financial derivatives in theory and practice. **2005i:91001**
Hurd, T. R. A note on log-optimal portfolios in exponential Lévy markets. (English summary) **2005j:91029**
— *see also* **Grasselli, M. R., 2005h:60198**
Hürlimann, Werner The algebra of cash flows: theory and application. **2005a:62224**
— On the economic risk capital of portfolio insurance. (English summary) **2005f:62025**
Ikonen, S. (*with* Toivanen, Jari) Operator splitting methods for American option pricing. (English summary) **2005c:65073**
Irgens, Christian (*with* Paulsen, Jostein) Optimal control of risk exposure, reinsurance and investments for insurance portfolios. (English summary) **2005c:93105**
Ishikawa, Yasushi Optimal control problem associated with jump processes. (English summary) **2005b:93163**
Islam, Sardar M. N. *see* **Chen, Ping[5], 2005f:91002**
Ivanov, Plamen Ch. *see* **Podobnik, Boris et al.**
Iyengar, Garud Universal investment in markets with transaction costs. (English summary) **2005k:91128**
— (*with* Kang, Wanmo) Inverse conic programming with applications. (English summary) **2005g:90101**
Jacob, Niels (*with* Truman, Aubrey) Further classes of pseudo-differential operators applicable to modelling in finance and turbulence. (English summary) (*see* **2005c:60001**)
Jaimungal, Sebastian (*with* Young, Virginia R.) Pricing equity-linked pure endowments with risky assets that follow Lévy processes. (English summary)
Jakobsen, Espen Robstad (*with* Karlsen, Kenneth H.) Continuous dependence estimates for viscosity solutions of integro-PDEs. (English summary) **2005k:35198**
Jarrow, Robert A. (*with* Lando, David; Yu, Fan[2]) Default risk and diversification: theory and empirical implications. (English summary) **2005k:91186**
Jaworski, Piotr On uniform tail expansions of bivariate copulas. (English summary) **2005m:62119**
Jeanblanc-Picqué, Monique *see* **Bielecki, Tomasz R. et al., 2005g:91008** *and* **2005i:91073**
Jódar, Lucas (*with* Sevilla-Peris, Pablo; Cortés López, Juan Carlos; Sala, R.) A new direct method for solving the Black-Scholes equation. (English summary) **2005h:35171**
— *see also* **Cortés López, Juan Carlos et al.**
(Jouini, Elyès) *see* **Bielecki, Tomasz R. et al., 2005g:91008**
Jüngel, Ansgar *see* **Düring, Bertram et al., 2005h:65132**
Kabanov, Yu. M. (*with* Klüppelberg, Claudia) A geometric approach to portfolio optimization in models with transaction costs. (English summary) **2005b:49060**
Kaise, H. (*with* Sheu, S. J.) Risk sensitive optimal investment: solutions of the dynamical programming equation. (English summary) **2005c:93107**
Kallrath, Josef Exact computation of global minima of a nonconvex portfolio optimization problem. (English summary) (*see* **2005a:90005**)
Kallsen, Jan *see* **Goll, Thomas, 2005d:60070**
Kalman, Rudolf E. *see* **Pincus, Steve, 2005g:91158**
Kałuszka, Marek (*with* Kondratiuk-Janyska, Alina) On risk minimizing strategies for default-free bond portfolio immunization. (English summary) **2005g:62180**
Kang, Wanmo *see* **Iyengar, Garud, 2005g:90101**
Karatzas, Ioannis *see* **Hou, Chunli, 2005g:60105**
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Kaulakys, B. *see* **Gontis, V.**
Kawamura, Enrique Competitive equilibrium with unawareness in economies with production. (English summary) **2005k:91201**
Kaymak, Uzay *see* **van den Berg, Jan et al., 2005b:91184**
Kazmerchuk, Y. I. (*with* Wu, Jian Hong) Stochastic state-dependent delay differential equations with applications in finance. (English summary) **2005i:34112**
Kellerhals, B. Philipp ★ Asset pricing. **2005c:91005**
Kennedy, Joanne *see* **Hunt, P. J., 2005i:91001**
Keppo, Jussi Pricing of point-to-point bandwidth contracts. (English summary) **2005k:91116**
Khametov, V. M. *see* **Boyarintseva, N. S., 2005h:60126**
Khovanov, N. V. (*with* Kolari, James W.; Sokolov, Mikhail V.) Computing currency invariant indices with an application to minimum variance currency baskets. (English summary) **2005d:91086**
— *see also* **Siegmann, Arjen, 2005b:91183**
Khrennikov, Andrei Yu. ★ Information dynamics in cognitive, psychological, social and anomalous phenomena. **2005b:91005**
Kim, Kyungsik (*with* Yoon, Seong-Min; Kim, Yup) Herd behaviors in the stock and foreign exchange markets. (English summary)
Kim, Woocheol (*with* Linton, Oliver B.) The live method for generalized additive volatility models. (English summary) **2005j:62182**
Kim, Yup *see* **Kim, Kyungsik et al.**
Kirch, Michael (*with* Runggaldier, Wolfgang J.) Efficient hedging when asset prices follow a geometric Poisson process with unknown intensities. (English summary) **2005m:93162**
Kirman, Alan P. *see* **Föllmer, Hans et al., 2005i:91077**
Klamroth, Kathrin *see* **Ehrgott, Matthias et al., 2005a:90086**
Kleinert, Hagen ★ Path integrals in quantum mechanics, statistics, polymer physics, and financial markets. **2005f:81131**
Klüppelberg, Claudia (*with* Pergamenshchikov, Sergeĭ) The tail of the stationary distribution of a random coefficient AR(q) model. (English summary) **2005d:62144**
— (*with* Lindner, Alexander; Maller, Ross A.) A continuous-time GARCH process driven by a Lévy process: stationarity and second-order behaviour. (English summary) **2005g:62159**
— *see also* **Kabanov, Yu. M., 2005b:49060**
Kolari, James W. *see* **Siegmann, Arjen, 2005b:91183** *and* **Khovanov, N. V. et al., 2005d:91086**
Kondratiuk-Janyska, Alina *see* **Kałuszka, Marek, 2005g:62180**
Konno, Hiroshi Applications of global optimization to portfolio analysis. (English summary)
Koopman, Siem Jan *see* **Zivot, Eric et al., (2005c:62005)**
Kopp, P. Ekkehard *see* **Elliott, Robert J., 2005g:91001**
Korn, Ralf (*with* Menkens, Olaf) On worst-case investment with applications in finance and insurance mathematics. (English summary) (*see* **2005i:00006**)
— Worst-case scenario investment for insurers. (English summary) **2005j:91047**
Kort, Peter M. *see* **Huisman, Kuno J. M., 2005b:91035**
Kou, S. C. (*with* Kou, S. G.) A diffusion model for growth stocks. (English summary) **2005g:60124**
Kou, S. G. *see* **Kou, S. C., 2005g:60124**
Kouritzin, Michael A. (*with* Zeng, Yong[1]) Weak convergence for a type of conditional expectation: application to the inference for a class of asset price models. (English summary) **2005i:60039**
Kraft, Holger ★ Optimal portfolios with stochastic interest rates and defaultable assets. **2005b:91006**
Krivoruchenko, M. I. (*with* Alessio, E.; Frappietro, V.; Streckert, L. J.) Modeling stylized facts for financial time series. (English summary) **2005h:62248**
Kühn, Christoph Game contingent claims in complete and incomplete markets. (English summary) **2005e:91025**
Kumar, Sunil[1] (*with* Muthuraman, Kumar) A numerical method for solving singular stochastic control problems. (English summary) **2005e:49056**
Kusuoka, Shigeo Approximation of expectation of diffusion processes based on Lie algebra and Malliavin calculus. (English summary) **2005h:60124**
— *see also* **Advances in mathematical economics. Vol. 6, 2005b:91008**
Kuznetsov, Alexey Evgenievich *see* **Albanese, Claudio, 2005k:60264**
Kyprianou, Andreas E. *see* **Avram, Florin et al., 2005c:60053**
Labahn, George *see* **d'Halluin, Y. et al., 2005d:65136**
La Chioma, Claudia *see* **Amadori, Anna Lisa et al., 2005e:60114** *and* **Briani, Maya et al., 2005k:65187**
Lai, Tze Leung (*with* Lim, Tiong Wee) Optimal stopping for Brownian motion with applications to sequential analysis and option pricing. (English summary)
Lando, David *see* **Jarrow, Robert A. et al., 2005k:91186**
Langberg, Naftali A. *see* **Dahan, Merav et al., 2005e:91100**
Lapushkin, A. S. *see* **Shchetinin, E. Yu.**
Lazrak, Ali Generalized stochastic differential utility and preference for information. (English summary) **2005i:60110**
Leach, P. G. L. *see* **Naicker, V. et al., 2005k:35009**
Le Digabel, Sébastien *see* **Audet, Charles et al., 2005a:90118**
Lee, Hangsuck A joint distribution of two-dimensional Brownian motion with an application to an outside barrier option. (English summary) **2005f:60177**
Lee, Heow Pueh *see* **Sun, Yan Feng et al., 2005e:62097**
Lee, Myoung-Jae (*with* Li, Wen-juan) Drift and diffusion function specification for short-term interest rates. (English summary)
Lee, Peter B. *see* **Wise, Mark B. et al.**
Lee, Roger W. Implied volatility: statics, dynamics, and probabilistic interpretation. (English summary) (*see* **2005f:60007**)
(Lehrbass, Frank) *see* **CreditRisk$^+$ in the banking industry, 2005c:91007**
Leitner, Johannes Balayage monotonous risk measures. (English summary) **2005g:91120**
Lepskiĭ, O. V. *see* **Feldmann, D. et al., 2005b:62083**
Li, Chu Lin *see* **Liu, Xiang Hua[1]**
Li, Hui[8] (*with* An, Hong-zhi; Wu, Guo-fu) An efficient algorithm for the optimal market timing over two stocks. (English summary) **2005g:62012**
Li, Shao Hua *see* **Ren, Xue Min**
Li, Wen-juan *see* **Lee, Myoung-Jae**
Li, Zhi Ying A kind of investment decision without consideration of transaction fees. (Chinese. English and Chinese summaries) **2005a:62226**
Li, Zhu Yu *see* **Lu, Wan Bo, 2005m:62080**
Liang, Yan Chun *see* **Sun, Yan Feng et al., 2005e:62097**
Lim, Andrew E. B. (*with* Zhou, Xun Yu) Mean-variance portfolio choice with discontinuous asset prices and nonnegative wealth processes. (English summary) (*see* **2005b:91010**)
Lim, Kian Guan *see* **Sing, Tien Foo et al., 2005m:91122**
Lim, Tiong Wee *see* **Lai, Tze Leung**
Lin, Wu Zhong[2] *see* **Sun, Yan Feng et al., 2005e:62097**
Lin, Xiao Gui An analysis of maximum probability and minimum risk of futures hedging. (Chinese. English and Chinese summaries)
Lin, Yu-Jen *see* **Chuang, Bor-Ren et al.**
Lindner, Alexander *see* **Klüppelberg, Claudia et al., 2005g:62159**
Linetsky, Vadim The spectral representation of Bessel processes with constant drift: applications in queueing and finance. (English summary) **2005d:60123**
— Spectral expansions for Asian (average price) options. (English summary) **2005i:60156**
— On the transition densities for reflected diffusions. (English summary)
Ling, Chen *see* **Qi, Liqun et al., 2005j:49010**
Linton, Oliver B. *see* **Kim, Woocheol, 2005j:62182**
Liou, Yeong-Cheng (*with* Yao, Jen Chih) Bilevel decision via variational inequalities. (English summary) **2005k:90115**
Lippman, Steven A. *see* **Ryan, Reade, 2005i:60081**
Liu, Ji Chun *see* **Tang, Si Ying et al., 2005f:60099**
Liu, Xiang Hua[1] (*with* Li, Chu Lin) Decision-making analysis of strategic R & D investment with capacity installed. (Chinese. English and Chinese summaries)
Liu, Yu Qing (*with* Long, Wen Li; Wang, Chong) Two pricing models for equity-linked policy that can be transformed to traditional policy. (Chinese. English and Chinese summaries) **2005e:60146**
Løkka, Arne Martingale representation of functionals of Lévy processes. (English summary) **2005d:60090**
Long, Wen Li *see* **Liu, Yu Qing et al., 2005e:60146**
Lu, Wan Bo (*with* Li, Zhu Yu) Nonparametric kernel regression estimation of volatility of stock return and its application to Chinese stock markets. (Chinese. English and Chinese summaries) **2005m:62080**
Lucas, André *see* **Siegmann, Arjen**
Lütkebohmert, Eva An asymptotic expansion for a Black-Scholes type model. (English summary) **2005j:60111**
Lyashenko, E. A. *see* **Dombrovskiĭ, V. V. et al., 2005e:49069** *and* **2005k:93237**
Lynn, Nicholas James The price of failure. (English summary) (*see* **2005a:62018**)
Makowiec, Danuta On modeling of inefficient market. (English summary) **2005f:91059**

Malevergne, Y. (*with* Sornette, D.) Collective origin of the coexistence of apparent random matrix theory noise and of factors in large sample correlation matrices. (English summary) **2005j:82032**
Maller, Ross A. *see* **Klüppelberg, Claudia et al., 2005g:62159**
Mandelbrot, Benoît B. (*with* Hudson, Richard L.) ★ The (mis)behavior of markets. (English summary) **2005g:91004**
Mansini, Renata (*with* Ogryczak, Włodzimierz; Speranza, Maria Grazia) LP solvable models for portfolio optimization: a classification and computational comparison. (English summary) **2005a:90094**
Marchesi, Michele *see* **Raberto, Marco et al., (2005j:91003)**
Marcozzi, M. D. *see* **Sapariuc, I. et al., 2005g:65132**
Margulies, William (*with* Zes, Dean) A stochastic control problem. (English summary) **2005k:93238**
(Maruyama, Toru) *see* **Advances in mathematical economics. Vol. 6, 2005b:91008**
Maslov, V. P. Approximation probabilities, the quasi-stable market law, and phase transition from a "condensate" state. (Russian) **2005e:82082**
— Axioms of nonlinear averaging in financial mathematics and an analogue of phase transition. (Russian) **2005e:91132**
Masoliver, Jaume *see* **Perelló, Josep et al.**
Matia, Kaushik *see* **Podobnik, Boris et al.**
Mazzoleni, Piera Risk measures and return performance: a critical approach. (English summary) **2005a:91071**
McCauley, Joseph L. ★ Dynamics of markets. **2005e:91006**
McKenzie, Michael D. *see* **Mitchell, Heather, 2005d:91087**
McLeish, Don L. Estimating the correlation of processes using extreme values. (English summary) (*see* **2005g:60006**)
Meddahi, Nour *see* **Andersen, Torben G. et al., 2005e:60144**
Meilijson, Isaac Stochastic orders and stopping times in Brownian motion. **2005a:60130**
Meladze, Gamlet (*with* Torondzhadze, T. A.) On the innovation of continuous multidimensional semimartingale. III. Information modelling in finance. (English and Georgian summaries) **2005m:60144**
Mel'nikov, A. V. Quantile hedging of equity-linked life insurance policies. (Russian)
Menkens, Olaf *see* **Korn, Ralf, (2005i:00006)**
Menn, Christian (*with* Rachev, Svetlozar T.) A GARCH option pricing model with α-stable innovations. (English summary)
Meyer-Brandis, Thilo (*with* Proske, Frank) Explicit solution of a non-linear filtering problem for Lévy processes with application to finance. (English summary) **2005e:60089**
Michnik, Jerzy The comprehensive financial risk management in a bank—stochastic goal programming optimization. (English summary) (*see* **2005b:90008**)
Michta, Mariusz (*with* Motyl, Jerzy) High order stochastic inclusions and their applications. (English summary) **2005k:93239**
Mil'shteĭn, G. N. (*with* Reiß, O.; Schoenmakers, John G. M.) A new Monte Carlo method for American options. (English summary)
Mīshura, Yulīya Fractional stochastic integration and Black-Scholes equation for fractional Brownian model with stochastic volatility. (English summary) **2005e:60147**
Mitchell, Heather (*with* McKenzie, Michael D.) GARCH model selection criteria. (English summary) **2005d:91087**
Mitchell, John E. *see* **Braun, Stephen, 2005k:90224**
Miyahara, Y. (*with* Novikov, Aleksandr A.) Geometric Lévy process pricing model. (English summary) **2005b:60169**
Mizuno, Takayuki (*with* Nakano, Tohur; Takayasu, Misako; Takayasu, Hideki) Traders' strategy with price feedbacks in financial market. (English summary)
Motyl, Jerzy *see* **Michta, Mariusz, 2005k:93239**
Mukerji, Sujoy (*with* Tallon, Jean-Marc) Ambiguity aversion and the absence of indexed debt. (English summary) **2005c:91087**
Müller, Peter[2] *see* **Stroud, Jonathan R. et al., (2005c:62005)**
Muratore-Ginanneschi, Paolo *see* **Aurell, Erik**
Musiela, Marek (*with* Rutkowski, Marek) ★ Martingale methods in financial modelling. **2005m:91004**
Muthuraman, Kumar *see* **Kumar, Sunil[1], 2005e:49056**
Muzy, Jean-François *see* **Bouchaud, Jean-Philippe, (2005a:00023)**
Naicker, V. (*with* Andriopoulos, K.; Leach, P. G. L.) Symmetry reductions of a Hamilton-Jacobi-Bellman equation arising in financial mathematics. (English summary) **2005k:35009**
Nakagawa, Hidetoshi (*with* Shouda, Tomoaki) Valuation of mortgage-backed securities based on unobservable prepayment costs. (English summary) **2005f:60139**
Nakano, Tohur *see* **Mizuno, Takayuki et al.**
Nakano, Yumiharu Efficient hedging with coherent risk measure. (English summary) **2005a:62230**
Natalini, Roberto *see* **Briani, Maya et al., 2005k:65187**
Newton, David P. *see* **Widdicks, Martin et al., 2005k:35206**
Nguyen Thanh Long Investment optimization under constraints. (English summary) **2005g:93123**
Nielsen, Bent *see* **Barndorff-Nielsen, Ole E. et al., (2005c:62005)**
Nieuwenhuis, J. W. (*with* Vellekoop, M. H.) Weak convergence of tree methods to price options on defaultable assets. (English summary) **2005k:60213**
Nogueiras, María R. *see* **Bermúdez, Ana, 2005c:65084**
Novikov, Aleksandr A. *see* **Miyahara, Y., 2005b:60169**
Nowak, Maciej A. *see* **Hołyst, Janusz A.**
Ogryczak, Włodzimierz *see* **Mansini, Renata et al., 2005a:90094**
Ohtsubo, Yoshio Risk minimization in optimal stopping problem and applications. (English summary) **2005c:91071**
Øksendal, Bernt K. (*with* Proske, Frank) White noise of Poisson random measures. (English summary) **2005i:60134**
— (*with* Sulem, Agnès) Partial observation control in an anticipating environment. (Russian. Russian summary) **2005e:93170**
— (*with* Sulem, Agnès) ★ Applied stochastic control of jump diffusions. **2005i:93003**
— *see also* **Biagini, Francesca, 2005b:60135**; **Framstad, Nils Chr. et al., 2005d:93148**; **2005j:93079** *and* **Hu, Yaozhong et al., 2005m:60119**
Ökten, Giray (*with* Eastman, Warren) Randomized quasi-Monte Carlo methods in pricing securities. (English summary) **2005g:65018**
O'Neill, Terence J. (*with* Penm, J. H. W.; Terrell, R. D.) The sequential estimation of subset VAR with forgetting factor and intercept variable. (English summary) **2005g:91157**
Ong, Seow Eng *see* **Sing, Tien Foo et al., 2005m:91122**
Oosterlee, Cornelis W. (*with* Frisch, J. C.; Gaspar, Francisco J.) TVD, WENO and blended BDF discretizations for Asian options. (English summary) **2005a:65088**
— *see also* **Almendral Vázquez, A., 2005j:65079**
Orłowski, Arkadiusz *see* **Brzozowska-Rup, Katarzyna, 2005j:91062**
Ortobelli Lozza, Sergio *see* **Rachev, Svetlozar T. et al., 2005g:62184**
(Oswald, Marcus) *see* **Proceedings: Operations Research, 2003, 2005d:90005**
Otaka, Masaaki (*with* Yoshida, Toshihiro) Study on option pricing in an incomplete market with stochastic volatility based on risk premium analysis. (English summary) **2005c:91049**
Ouyang, Liang-Yuh *see* **Chuang, Bor-Ren et al.**
Pagès, Gilles (*with* Pham, Huyên; Printems, Jacques) An optimal Markovian quantization algorithm for multi-dimensional stochastic control problems. (English summary) **2005i:65014**
— *see also* **Bally, Vlad, 2005f:60096**
Pakes, Anthony G. Investigating the structure of truncated Lévy-stable laws. (English summary) **2005d:60028**
Pan, Jia Zhu *see* **Wu, Guang Xu et al., 2005m:62194**
Pang, Tao[2] *see* **Fleming, Wendell H., 2005d:93147**
Pap, Gyula[1] *see* **Gáll, József et al., 2005g:62179**
Papanicolaou, George *see* **Fouque, Jean-Pierre et al., 2005m:60141**
Pasik-Duncan, Bozenna Random walk around some problems in identification and stochastic adaptive control with applications to finance. (English summary) **2005b:93156**
Paulsen, Jostein *see* **Irgens, Christian, 2005c:93105**
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Peña, Javier F. *see* **Zuluaga, Luis F., 2005m:90085**
Peng, Shi Ge *see* **Back, Kerry et al., 2005h:91003**
Penm, J. H. W. *see* **O'Neill, Terence J. et al., 2005g:91157**
Perelló, Josep (*with* Masoliver, Jaume; Anento, Napoleón) A comparison between several correlated stochastic volatility models. (English summary)
Pergamenshchikov, Sergeĭ *see* **Klüppelberg, Claudia, 2005d:62144**
Petersen, Mark Adam (*with* Raubenheimer, Helgard; van der Walt, Frederik C.; van Rooy, Herrie F., II) Stochastic controllability of linear interest rate models. (English summary) **2005d:93135**
Petras, K. Numerical computation of an integral representation for arithmetic-average Asian options. (English summary) **2005e:65027**
Petrella, G. An extension of the Euler Laplace transform inversion algorithm with applications in option pricing. (English summary) **2005f:44001**
Pham, Huyên A predictable decomposition in an infinite assets model with jumps. Application to hedging and optimal investment. (English summary) **2005i:91090**
— *see also* **Pagès, Gilles et al., 2005i:65014** *and* **Guo, Xin, 2005m:60143**
Pincus, Steve (*with* Kalman, Rudolf E.) Irregularity, volatility, risk, and financial market time series. (English summary) **2005g:91158**
Pistorius, Martijn R. *see* **Avram, Florin et al., 2005c:60053**
Platen, Eckhard Modeling the volatility and expected value of a diversified world index. (English summary) **2005b:91086**
Podobnik, Boris (*with* Ivanov, Plamen Ch.; Große, Ivo; Matia, Kaushik; Stanley, H. Eugene) ARCH-GARCH approaches to modeling high-frequency financial data. (English summary)
Polson, Nicholas G. *see* **Stroud, Jonathan R. et al., (2005c:62005)**
Poor, H. Vincent *see* **Bayraktar, Erhan et al., 2005c:62145**
Pozdnyakov, Vladimir (*with* Steele, J. Michael) On the martingale framework for futures prices. (English summary) **2005b:60113**
Pratelli, Maurizio A minimax theorem without compactness hypothesis. (English summary) **2005k:49079**
— *see also* **De Donno, Marzia, 2005e:60112**
Prigent, Jean-Luc ★ Weak convergence of financial markets. **2005b:91007**
Printems, Jacques *see* **Pagès, Gilles et al., 2005i:65014**
Proske, Frank *see* **Meyer-Brandis, Thilo, 2005e:60089** *and* **Øksendal, Bernt K., 2005i:60134**
Qi, Liqun (*with* Shapiro, Alexander; Ling, Chen) Differentiability and semismoothness properties of integral functions and their applications. (English summary) **2005j:49010**
— *see also* **Wang, Y. et al., 2005c:41030**
Qi, Yue *see* **Steuer, Ralph E., (2005b:90008)**
Qian, Xiao Song Changes of probability measure and option pricing in jump-diffusion models. (Chinese. English and Chinese summaries) **2005e:60192**
Qiao, Han *see* **Cheng, Ling et al.**
Quiggin, John *see* **Chambers, Robert G., 2005m:91055**
Quittard-Pinon, François (*with* Serant, Daniel) Preface [Special issue: Papers presented at the 7th IME Conference].
Raberto, Marco (*with* Cincotti, Silvano; Dose, Christian; Focardi, Sergio M.; Marchesi, Michele) Price formation in an artificial market: limit order book versus matching of supply and demand. (English summary) (*see* **2005j:91003**)
Rachev, Svetlozar T. (*with* Ortobelli Lozza, Sergio; Schwartz, Eduardo) The problem of optimal asset allocation with stable distributed returns. (English summary) **2005g:62184**
— *see also* **Handbook: Computational and numerical methods in finance, 2005b:91009** *and* **Menn, Christian**
Racheva-Iotova, Boryana *see* **Stoyanov, Stoyan V.**
Rasmussen, Henning *see* **Anderson, C. K. et al., 2005a:90007**
Rásonyi, Miklós (*with* Stettner, Lukasz) On utility maximization in discrete-time financial market models. (English summary) **2005k:93244**
Raubenheimer, Helgard *see* **Petersen, Mark Adam et al., 2005d:93135**
Reagle, Derrick P. *see* **Vinod, Hrishikesh D., 2005e:91005**
Rebesco, Igor *see* **Bottazzi, Giulio et al.**
Reikvam, K. *see* **Benth, F. E. et al., 2005h:65127**
Reimann, Stefan Towards understanding the guessing game: a dynamical systems' perspective. (English summary) **2005d:91029**

— *see also* **Hens, Thorsten et al., 2005b:91018**
(Reinelt, Gerhard) *see* **Proceedings: Operations Research, 2003, 2005d:90005**
Reisinger, Christoph (*with* Wittum, Gabriel) On multigrid for anisotropic equations and variational inequalities: pricing multi-dimensional European and American options. (English summary) **2005g:65098**
Reiß, O. *see* **Mil′shteĭn, G. N. et al.**
Ren, Xue Min (*with* Li, Shao Hua) Pricing deposit product of exchange rate range accrual. (Chinese. English and Chinese summaries)
Repetowicz, Przemysław (*with* Richmond, Peter) Modeling share price evolution as a continuous time random walk (CTRW) with non-independent price changes and waiting times. (English summary)
Richards, Donald St. P. *see* **Székely, Gábor J.**
Richmond, Peter *see* **Repetowicz, Przemysław**
Rogers, L. C. G. *see* **Aquilina, J., 2005e:91058**
Roman, Steven ★ Introduction to the mathematics of finance. **2005b:91004**
Romera, Rosario *see* **Balbas de la Corte, Alejandro et al., (2005f:60007)**
Rong, Yue Tang (*with* Wu, Hai Shan) Numerical solution for derivative securities that depend on two state variables. (Chinese. English and Chinese summaries)
van Rooy, Herrie F., II *see* **Petersen, Mark Adam et al., 2005d:93135**
Ruiz, Esther *see* **Balbas de la Corte, Alejandro et al., (2005f:60007)**
Runggaldier, Wolfgang J. *see* **Back, Kerry et al., 2005h:91003** *and* **Kirch, Michael, 2005m:93162**
Ruppert, David ★ Statistics and finance. **2005a:62006**
Rusakov, O. V. *see* **Chuprunov, A. N., 2005h:60062**
Rutkowski, Marek *see* **Bielecki, Tomasz R. et al., 2005g:91008; 2005i:91073** *and* **Musiela, Marek, 2005m:91004**
Ryan, Reade (*with* Lippman, Steven A.) Optimal exit from a project with noisy returns. (English summary) **2005i:60081**
Saint-Pierre, Patrick Viable capture basin for studying differential and hybrid games: application to finance. (English summary) **2005c:91026**
Sakalauskas, Leonidas Application of the Monte-Carlo method to nonlinear stochastic optimization with linear constraints. (English and Lithuanian summaries) **2005d:90086**
Sala, R. *see* **Jódar, Lucas et al., 2005h:35171** *and* **Cortés López, Juan Carlos et al.**
Salopek, Donna Mary *see* **Hu, Yaozhong et al., 2005m:60119**
Sapariuc, I. (*with* Marcozzi, M. D.; Flaherty, Joseph E.) A numerical analysis of variational valuation techniques for derivative securities. (English summary) **2005g:65132**
Schachermayer, Walter *see* **Back, Kerry et al., 2005h:91003**
Scheinkman, José A. *see* **Bielecki, Tomasz R. et al., 2005g:91008**
Schenk-Hoppé, Klaus Reiner *see* **Hens, Thorsten**
Schmid, Wolfgang P. *see* **Śliwa, Przemysław, 2005m:62171**
Schneider, Reinhold *see* **Beuchler, S. et al., 2005g:65199**
Schoenmakers, John G. M. ★ Robust Libor modelling and pricing of derivative products. **2005m:91005**
— *see also* **Mil′shteĭn, G. N. et al.**
Schrager, David F. (*with* Pelsser, Antoon A. J.) Pricing rate of return guarantees in regular premium unit linked insurance. (English summary) **2005g:91124**
Schürle, Michael *see* **Frauendorfer, Karl, 2005b:91179**
Schwab, Christoph *see* **Beuchler, S. et al., 2005g:65199**
Schwartz, Eduardo *see* **Rachev, Svetlozar T. et al., 2005g:62184**
Schwehm, Christian *see* **Ehrgott, Matthias et al., 2005a:90086**
Schweizer, Martin *see* **Becherer, Dirk, 2005k:60211**
Sciubba, Emanuela Asymmetric information and survival in financial markets. (English summary) **2005h:91152**
Selçuk, Faruk Financial earthquakes, aftershocks and scaling in emerging stock markets. (English summary)
Seneta, Eugene Fitting the variance-gamma model to financial data. (English summary) **2005d:62134**
Sentana, Enrique Factor representing portfolios in large asset markets. (English summary) **2005a:62232**
Serant, Daniel *see* **Quittard-Pinon, François**
Sevilla-Peris, Pablo *see* **Jódar, Lucas et al., 2005h:35171** *and* **Cortés López, Juan Carlos et al.**
Seydel, Rüdiger Numerische Finanzmathematik. (German summary) [Numerical financial mathematics] **2005g:91006**
Shapiro, Alexander *see* **Qi, Liqun et al., 2005j:49010**
Shashiashvili, Malkhaz *see* **Danelia, Akaki et al., 2005a:60102**
Shchetinin, E. Yu. (*with* Lapushkin, A. S.) Statistical methods and mathematical models for estimating financial risk. (Russian. English and Russian summaries)
Shen, Chung-Hua *see* **Chen, Shyh-Wei, 2005i:91093**
Shephard, Neil *see* **Barndorff-Nielsen, Ole E. et al., 2005a:62046; 2005e:60145** *and* **(2005c:62005)**
Sheu, S. J. *see* **Kaise, H., 2005c:93107**
Shiryaev, Albert N. (*with* Chernyĭ, A. S.) A vector stochastic integral and the fundamental theorem of asset pricing. (Russian. Russian summary) **2005b:60136**
Shouda, Tomoaki *see* **Nakagawa, Hidetoshi, 2005f:60139**
Shreve, Steven E. ★ Stochastic calculus for finance. II. **2005c:91001**
Shubik, Martin *see* **Dubey, Pradeep et al., 2005k:91198**
Siegmann, Arjen A stable currency numeraire? Comment on: "Computing currency invariant indices with an application to minimum variance currency baskets" [J. Econom. Dynam. Control **28** (2004), no. 8, 1481–1504; MR2041411 (2005d:91086)] by N. V. Hovanov, J. W. Kolari and M. V. Sokolov. (English summary) **2005b:91183**
— (*with* Lucas, André) Discrete-time financial planning models under loss-averse preferences. (English summary)
Sigouin, Christian Investment decisions, financial flows, and self-enforcing contracts. (English summary) **2005c:91047**
Sim, Melvyn *see* **Bertsimas, Dimitris, 2005a:90092**
Simonelli, Maria Rosaria Indeterminacy in portfolio selection. (English summary) **2005f:91054**
Sing, Tien Foo (*with* Ong, Seow Eng; Fan, Gang-Zhi; Lim, Kian Guan) Pricing credit risk of asset-backed securitization bonds in Singapore. (English summary) **2005m:91122**
Sircar, K. Ronnie *see* **Bayraktar, Erhan et al., 2005c:62145** *and* **Fouque, Jean-Pierre et al., 2005m:60141**
Siu, Tak Kuen (*with* Tong, Howell; Yang, Hailiang) On pricing derivatives under GARCH models: a dynamic Gerber-Shiu approach. (English summary)
Slastnikov, A. D. *see* **Arkin, Vadim I., 2005e:60090**
Slim, Chokri (*with* Trabelsi, Abdelwahed) Neural network for modeling financial time series: a new approach. (English summary) **2005j:91064**
Śliwa, Przemysław (*with* Schmid, Wolfgang P.) Monitoring the cross-covariances of a multivariate time series. (English summary) **2005m:62171**
(Sloot, Peter M. A.) *see* **Computational science—ICCS 2003. Part II, 2005c:00015**
Smolyak, S. A. Optimality criteria for investment projects under uncertainty. (English summary) (*see* **2005c:90002**)
Sokolov, Mikhail V. *see* **Siegmann, Arjen, 2005b:91183** *and* **Khovanov, N. V. et al., 2005d:91086**
Soner, H. Mete ★ Stochastic optimal control in finance. **2005m:93002**
Sorini, Laerte *see* **Guerra, Maria Letizia**
Sornette, D. *see* **Malevergne, Y., 2005j:82032** *and* **Vitting Andersen, Jørgen, 2005m:91170**
Speranza, Maria Grazia *see* **Mansini, Renata et al., 2005a:90094**
Sprott, J. C. Competition with evolution in ecology and finance. (English summary) **2005a:92020**
Stanley, H. Eugene *see* **Carbone, Anna et al., 2005h:62235** *and* **Podobnik, Boris et al.**
Stanzl, Werner *see* **Huberman, Gur, 2005a:91038**
Steele, J. Michael *see* **Pozdnyakov, Vladimir, 2005b:60113**
Stein, Jerome L. Stochastic optimal control modeling of debt crises. (English summary) (*see* **2005b:91010**)
Stettner, Lukasz Risk-sensitive portfolio optimization with completely and partially observed factors. (English summary) **2005f:60088**
— *see also* **Rásonyi, Miklós, 2005k:93244**
Steuer, Ralph E. (*with* Qi, Yue) Computational investigations evidencing multiple objectives in portfolio optimization. (English summary) (*see* **2005b:90008**)
Stoica, Gheorghe On the Föllmer-Schweizer-Barlow model. (English summary)
Stojanovic, Srdjan Optimal momentum hedging via hypoelliptic reduced Monge-Ampère PDEs. (English summary) **2005k:93245**
Storti, Giuseppe (*with* Vitale, Cosimo) BL-GARCH models and asymmetries in volatility. (English summary) **2005b:62192**
Stoyanov, Stoyan V. (*with* Racheva-Iotova, Boryana) Univariate stable laws in the field of finance—approximation of density and distribution functions. (English summary)
Strasser, Eva Necessary and sufficient conditions for the supermartingale property of a stochastic integral with respect to a local martingale. (English summary) **2005b:60137**
Streckert, L. J. *see* **Krivoruchenko, M. I. et al., 2005h:62248**
Stricker, Christophe Indifference pricing with exponential utility. (English summary) **2005i:60083**
Stroud, Jonathan R. (*with* Polson, Nicholas G.; Müller, Peter[2]) Practical filtering for stochastic volatility models. (English summary) (*see* **2005c:62005**)
Sulem, Agnès *see* **Framstad, Nils Chr. et al., 2005d:93148; 2005j:93079; Øksendal, Bernt K., 2005e:93170** *and* **2005i:93003**
Sun, Xiao Ming[1] *see* **Huang, Hui Min**
Sun, Yan Feng (*with* Liang, Yan Chun; Wu, Chunguo; Yang, Xiao Wei[1]; Lee, Heow Pueh; Lin, Wu Zhong[2]) Estimate of error bounds in the improved support vector regression. (English summary) **2005e:62097**
Szegö, Giorgio Measures of risk. (English summary) **2005f:91089**
Székely, Gábor J. (*with* Richards, Donald St. P.) The St. Petersburg paradox and the crash of high-tech stocks in 2000. (English summary)
Takayasu, Hideki *see* **Mizuno, Takayuki et al.**
Takayasu, Misako *see* **Mizuno, Takayuki et al.**
Tallon, Jean-Marc *see* **Mukerji, Sujoy, 2005c:91087**
Tang, Qi Backward stochastic differential equations and discrete investment decision-making processes. (Chinese. English and Chinese summaries)
Tang, Si Ying (*with* Liu, Ji Chun; Du, Li Jin) The minimal symmetric entropy martingale measure and the valuation problem in incomplete markets. (Chinese. English and Chinese summaries) **2005f:60099**
Tapiero, Charles S. ★ Risk and financial management. **2005k:91002**
(Taylor, Greg) *see* **Hoedemakers, Tom**
Tehranchi, Michael *see* **Carmona, René, 2005d:60100**
Teichmann, Josef *see* **Filipović, Damir[1], 2005b:60145**
Terrell, R. D. *see* **O'Neill, Terence J. et al., 2005g:91157**
Thomas-Agnan, Christine *see* **Tran Hung Thao, 2005i:62134**
Tichy, Robert F. *see* **Albrecher, Hansjörg et al., (2005a:41001)**
Timofeeva, G. A. Dual problems of stochastic optimization and their application in a model of securities market. (Russian) (*see* **2005c:00020**)
Toivanen, Jari *see* **Ikonen, S., 2005c:65073**
Tong, Howell *see* **Siu, Tak Kuen et al.**
Torondzhadze, T. A. *see* **Meladze, Gamlet, 2005m:60144**
Touzi, Nizar ★ Stochastic control problems, viscosity solutions and application to finance. **2005h:93001**
— *see also* **Bouchard, Bruno et al., 2005a:91042** *and* **Bielecki, Tomasz R. et al., 2005g:91008**
Trabelsi, Abdelwahed *see* **Slim, Chokri, 2005j:91064**
Tran Hung Thao (*with* Thomas-Agnan, Christine) Évolution des cours gouvernée par un processus de type ARIMA fractionnaire. (English summary) [Evolution of options governed by a fractional ARIMA-type process] **2005i:62134**
Truman, Aubrey *see* **Jacob, Niels, (2005c:60001)**
Tsybakov, A. B. *see* **Feldmann, D. et al., 2005b:62083**
Tudor, Ciprian A. Itô-Skorohod stochastic equations and applications to finance. **2005h:60177**
Tzavalis, Elias *see* **Harris, Richard D. F., 2005b:62181**
Urbanowicz, Krzysztof (*with* Hołyst, Janusz A.) Investment strategy due to the minimization of portfolio noise level by observations of coarse-grained entropy. (English summary) **2005g:91159**
Urga, Giovanni *see* **Barone Adesi, Giovanni et al.**

Valkanov, Rossen Functional central limit theorem approximations and the distribution of the Dickey-Fuller test with strongly heteroskedastic data. (English summary)
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Vitting Andersen, Jørgen (*with* Sornette, D.) A mechanism for pockets of predictability in complex adaptive systems. (English summary) **2005m:91170**
Vogt, Bodo *see* **Hens, Thorsten et al., 2005b:91018**
Vriend, Nicolaas J. Guest editorial [Computing in economics and finance].
Wagener, Florian O. O. *see* **Brock, William A. et al., 2005k:91119**
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Wang, Bo[1] Singular control of stochastic linear systems with recursive utility. (English summary) **2005a:93157**
Wang, Chong *see* **Liu, Yu Qing et al., 2005e:60146**
Wang, Hao[5] Simulation and extreme VaR and VaR confidence interval estimation for a class of heavy-tailed risk factors. (English and Chinese summaries)
Wang, Jeffrey *see* **Zivot, Eric et al., (2005c:62005)**
Wang, Qiong *see* **Bish, Ebru K., 2005g:91127**
Wang, Y. (*with* Yin, Hong Xia; Qi, Liqun) No-arbitrage interpolation of the option price function and its reformulation. (English summary) **2005c:41030**
Wang, Yang[6] *see* **Xiao, Wen Ning et al., 2005m:60146**
Wen, Ya A backward algorithm for investment decision-making processes. (Chinese. English and Chinese summaries)
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Widdicks, Martin (*with* Duck, Peter W.; Andricopoulos, Ari D.; Newton, David P.) The Black-Scholes equation revisited: asymptotic expansions and singular perturbations. (English summary) **2005k:35206**
Wise, Mark B. (*with* Lee, Peter B.; Bhansali, Vineer) Corporate bond risk from stock dividend uncertainty. (English summary)
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Wong, Bernard (*with* Heyde, Christopher C.) On the martingale property of stochastic exponentials. (English summary) **2005d:60101**
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Wu, Chunguo *see* **Sun, Yan Feng et al., 2005e:62097**
Wu, Guang Xu (*with* Cheng, Qian Sheng; Pan, Jia Zhu) Nonparametric estimation of value-at-risk of Chinese stock market. (Chinese. English and Chinese summaries) **2005m:62194**
Wu, Guo-fu *see* **Li, Hui[8] et al., 2005g:62012**
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Wu, Ho-Mou (*with* Guo, Wen-Chung) Asset price volatility and trading volume with rational beliefs. (English summary) **2005d:91042**
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Wu, P. (*with* Elliott, Robert J.) Hidden Markov chain filtering for a jump diffusion model. (English summary) **2005i:93086**
Wu, Shu (*with* Zeng, Yong[1]) Affine regime-switching models for interest rate term structure. (English summary) **2005f:62162**
Wu, Xiao Nan *see* **Zhu, You-Lan et al., 2005i:91002**
Xiao, Wen Ning (*with* Wang, Yang[6]; Zhang, Ji Zhou) An investigation on pricing methods of the geometric average Asian options. (Chinese. English and Chinese summaries) **2005m:60146**
Xiong, Shuang Ping Probability of ruin for the Cox model with a constant interest rate. (English and Chinese summaries) **2005i:62152**
Xiong, Wei[2] *see* **Bielecki, Tomasz R. et al., 2005g:91008**
Yang, Hailiang *see* **Cheung, Ka Chun, 2005a:60100** *and* **Siu, Tak Kuen et al.**
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Yang, Xiao Wei[1] *see* **Sun, Yan Feng et al., 2005e:62097**
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— *see also* **Mathematics of finance, 2005b:91010**
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Yong, Jiongmin Some estimates on exponentials of solutions to stochastic differential equations. **2005j:60122**
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Yoshida, Toshihiro *see* **Otaka, Masaaki, 2005c:91049**
Young, Virginia R. Optimal investment strategy to minimize the probability of lifetime ruin. (English summary) **2005f:60140**
— *see also* **Jaimungal, Sebastian**
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Zhang, Tie A finite element method for pricing American options on bonds. (Chinese. English summary) **2005i:65149**
Zheng, Ziyu Numerical analysis of stochastic differential systems and its applications in finance. (English summary) (*see* **2005b:91009**)
Zhou, Qing[1] Power utility maximization in an exponential Lévy model without a risk-free asset. (English summary) **2005m:60105**
Zhou, Xun Yu *see* **Yao, David D. et al., 2005h:93178** *and* **Lim, Andrew E. B., (2005b:91010)**
Zhu, You-Lan (*with* Wu, Xiao Nan; Chern, I-Liang) ★ Derivative securities and difference methods. **2005i:91002**
Zhu, Zongwu *see* **Hanson, Floyd B. et al., 2005g:60131**
Ziegler, Alexandre ★ Incomplete information and heterogeneous beliefs in continuous-time finance. **2005f:91003**
(Zimmermann, Heinz) *see* **Ziegler, Alexandre, 2005f:91003**
Zivot, Eric (*with* Wang, Jeffrey; Koopman, Siem Jan) State space modelling in macroeconomics and finance using SsfPack in S + Finmetrics. (English summary) (*see* **2005c:62005**)
(Zomaya, Albert Y.) *see* **Computational science—ICCS 2003. Part II, 2005c:00015**
Zuccolotto, Paola Quantile estimation in ultra-high frequency financial data: a comparison between parametric and semiparametric approach. (English summary)
Zuluaga, Luis F. (*with* Peña, Javier F.) A conic programming approach to generalized Tchebycheff inequalities. (English summary) **2005m:90085**

Items listed otherwise than by author

Advances in mathematical economics. Vol. 6 ★ Advances in mathematical economics. Vol. 6. **2005b:91008**
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Computational science—ICCS 2003. Part II ★ Computational science—ICCS 2003. Part II. **2005c:00015**
Contemporary applications of the mathematical and computer sciences to development problems ★ Contemporary applications of the mathematical and computer sciences to development problems. **2005j:00013**
Contemporary Mathematics ★ Mathematics of finance. **2005b:91010**
CreditRisk$^+$ in the banking industry ★ CreditRisk$^+$ in the banking industry. **2005c:91007**
Handbook:
Computational and numerical methods in finance ★ Handbook of computational and numerical methods in finance. **2005b:91009**
Heidelberg ★ Operations Research Proceedings 2003. **2005d:90005**
Lagos ★ Contemporary applications of the mathematical and computer sciences to development problems. **2005j:00013**
Lecture Notes in Computer Science ★ Computational science—ICCS 2003. Part II. **2005c:00015**
Lecture Notes in Economics and Mathematical Systems *see* **Kraft, Holger, 2005b:91006; Hafner, Reinhold, 2005c:91003** *and* **Hautsch, Nikolaus, 2005c:91004**
Lecture Notes in Mathematics *see* **Bielecki, Tomasz R. et al., 2005g:91008** *and* **Back, Kerry et al., 2005h:91003**
Mathematics of finance ★ Mathematics of finance. **2005b:91010**
Melbourne ★ Computational science—ICCS 2003. Part II. **2005c:00015**
Paris-Princeton Lectures on Mathematical Finance 2003 *see* **Bielecki, Tomasz R. et al., 2005g:91008**
Proceedings:
Operations Research, 2003 ★ Operations Research Proceedings 2003. **2005d:90005**
Snowbird, UT ★ Mathematics of finance. **2005b:91010**
St. Petersburg ★ Computational science—ICCS 2003. Part II. **2005c:00015**
Stochastic methods in finance *see* **Back, Kerry et al., 2005h:91003**

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Ageev, I. A. (*with* Ovchinnikova, T. I.) A method for the design of nonmanipulative insurance mechanisms. (Russian. Russian summary) **2005k:91181**
Angrisani, Massimo (*with* Attias, Anna) A mathematical model for the management of an invalidity old age survivor pension fund: the exact individual trajectories method. (English summary) **2005m:91116**
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Bäuerle, Nicole Approximation of optimal reinsurance and dividend payout policies. (English summary) **2005d:91065**
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Cai, Jun (*with* Dickson, David C. M.) Ruin probabilities with a Markov chain interest model. (English summary) **2005h:91129**
Cardin, Marta (*with* Ferretti, Paola) Comparing bivariate risks: measures of dependence, concordance, diversification. (English summary) **2005b:91140**
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Cheng, Hai Bo Risk-minimizing duplicating strategies under partial information. (Chinese. English and Chinese summaries) **2005d:91066**
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Dahan, Merav (*with* Frostig, Esther; Langberg, Naftali A.) Insurance contracts portfolios with heterogenous insured ages. (English summary) **2005e:91100**

Dai, Jin *see* **Wang, Yan Chen et al., 2005j:91049**
D'Ecclesia, Rita L. (*with* Zenios, Stavros A.) Estimation of asset demands by heterogeneous agents. (English summary) **2005e:91099**
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Dhaene, Jan *see* **Goovaerts, Marc J. et al., 2005b:91142**
Dickson, David C. M. *see* **Cai, Jun, 2005h:91129**
Du, Yonghong (*with* Wu, Rong[1]) The bi-atomic uniform solution of Schmitter's problem in renewal models. (English and Chinese summaries) **2005m:91117**
Eichner, Thomas (*with* Wagener, Andreas) Relative risk aversion, relative prudence and comparative statics under uncertainty: the case of (μ, σ)-preferences. (English summary) **2005f:91084**
— (*with* Wagener, Andreas) Insurance demand, the elasticity of risk aversion, and relative prudence: a further result. (English summary) **2005b:91141**
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Framstad, Nils Chr. Coherent portfolio separation—inherent systemic risk? (English summary)
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Gaier, J. (*with* Grandits, Peter) Ruin probabilities and investment under interest force in the presence of regularly varying tails. (English summary) **2005k:91182**
Gajek, Lesław (*with* Zagrodny, Dariusz) Optimal reinsurance under general risk measures. (English summary) **2005d:91067**
— On the deficit distribution when ruin occurs—discrete time model. (English summary) **2005k:91183**
Gao, Ming Mei (*with* Zhao, Ming Qing; Li, Shu Shan) Some recursive formulas of a discrete time risk model. (Chinese. English and Chinese summaries)
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García-Alonso, María del Carmen (*with* Levine, P. L.; Morga, Antonia) Export credit guarantees, moral hazard and exports quality. (English summary)
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Gay, Roger[2] Pricing risk when distributions are fat tailed. (English summary) **2005a:91069**
Gerrard, Russell (*with* Haberman, Steven; Vigna, Elena) Optimal investment choices post-retirement in a defined contribution pension scheme. (English summary) **2005g:91119**
— *see also* **Wang, Nan[2] et al., 2005h:91134**
Goovaerts, Marc J. (*with* Kaas, Rob; Dhaene, Jan; Tang, Qi He) Some new classes of consistent risk measures. (English summary) **2005b:91142**
— (*with* Kaas, Rob; Laeven, Roger J. A.; Tang, Qi He) A comonotonic image of independence for additive risk measures. (English summary) **2005h:91131**
Grandits, Peter An analogue of the Cramér-Lundberg approximation in the optimal investment case. (English summary) **2005f:91085**
— *see also* **Gaier, J., 2005k:91182**
Haberman, Steven (*with* Sung, Joo-Ho) Optimal pension funding dynamics over infinite control horizon when stochastic rates of return are stationary. (English summary) **2005k:91184**
— *see also* **Gerrard, Russell et al., 2005g:91119** *and* **Wang, Nan[2] et al., 2005h:91134**
Halevy, Yoram (*with* Feltkamp, Vincent) A Bayesian approach to uncertainty aversion. (English summary) **2005m:91118**
He, Shu Hong (*with* Chen, Yan) A risk model of double-type-insurance with constant interest. (Chinese. English and Chinese summaries)
— *see also* **Hei, Shao Min et al.**
Hei, Shao Min (*with* He, Shu Hong; Zhong, Chao Yan) A discrete model of double line. (Chinese. English and Chinese summaries)
Hellwig, Martin F. Nonlinear incentive provision in Walrasian markets: a Cournot convergence approach. (English summary) **2005h:91132**
Hipp, Christian Stochastic control with application in insurance. **2005k:91185**
Horváth, Alice (*with* Prékopa, András) Lower and upper bounds for the actuarial present value of a group life insurance policy, using joint life time distributions. (Hungarian. English and Hungarian summaries) **2005e:91101**
Hu, Yi-jun *see* **Liu, Yan[3], 2005j:91048** *and* **Wei, Xiao, 2005j:91051**
Jang, Ji-Wook (*with* Krvavich, Yu. V.) Arbitrage-free premium calculation for extreme losses using the shot noise process and the Esscher transform. (English summary) **2005f:91086**
Jarrow, Robert A. (*with* Lando, David; Yu, Fan[2]) Default risk and diversification: theory and empirical implications. (English summary) **2005k:91186**
Jeanblanc-Picqué, Monique *see* **Bielecki, Tomasz R. et al., 2005i:91073**
Jeleva, Meglena (*with* Villeneuve, Bertrand) Insurance contracts with imprecise probabilities and adverse selection. (English summary) **2005d:91068**
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Kharlamov, B. P. Choosing the starting time of insurance. (Russian. Russian summary) **2005e:91102**
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Li, Ben *see* **Tian, Jinlan et al., (2005c:00015)**
Li, Chu Lin *see* **Mei, Zheng Yang et al., 2005e:91103**
Li, Fang Fang (*with* Luo, Yan) A generalized discrete insurance risk model of two-type claims. (Chinese. English and Chinese summaries)
Li, Shu Shan *see* **Gao, Ming Mei et al.**
Li, Shuanming (*with* Garrido, José) On ruin for the Erlang(n) risk process. (English summary) **2005d:91069**
— (*with* Lu, Yi) On the expected discounted penalty functions for two classes of risk processes. (English summary) **2005m:91119**
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Lin, Xiao Gui An analysis of maximum probability and minimum risk of futures hedging. (Chinese. English and Chinese summaries)
Liu, Jun[9] Properties on some orders of risks in insurance and their interrelations. (Chinese. English and Chinese summaries)
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Lu, Tong-Yu (*with* Zhang, Yi[3]) Generalized correlation order and stop-loss order. (English summary) **2005d:91070**
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Mari, Carlo (*with* Renò, Roberto) Credit risk analysis of mortgage loans: an application to the Italian market. (English summary)
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Mazzoleni, Piera Risk measures and return performance: a critical approach. (English summary) **2005a:91071**
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Mel'nikov, A. V. Quantile hedging of equity-linked life insurance policies. (Russian)
— Efficient hedging of equity-linked life insurance policies. (Russian)
Menezes, Carmen F. (*with* Wang, X. Henry; Bigelow, John P.) Duality and consumption decisions under income and price risk. (English summary) **2005m:91120**
Menicucci, Domenico Risk aversion in first price auctions with common values. (English summary)
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Ovchinnikova, T. I. A model of the preventive and motivational roles of insurance. (Russian. Russian summary)
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Shapiro, Arnold F. Fuzzy logic in insurance. (English summary) **2005f:91088**
Sing, Tien Foo (*with* Ong, Seow Eng; Fan, Gang-Zhi; Lim, Kian Guan) Pricing credit risk of asset-backed securitization bonds in Singapore. (English summary) **2005m:91122**
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Stoynov, Pavel T. A special case of wealth motion. **2005h:91133**
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Tian, Jinlan (*with* Zhang, Suqin; Zhu, Lin; Li, Ben) Mining investment venture rules from insurance data based on decision tree. (English summary) (*see* **2005c:00015**)
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Wang, Guo Jing *see* **Wang, Yun Jie, 2005j:91050**
Wang, Nan[2] (*with* Gerrard, Russell; Haberman, Steven) The premium and the risk of a life policy in the presence of interest rate fluctuations. (English summary) **2005h:91134**
Wang, Shaofeng[2] (*with* Gao, Qing Ling) Solution for expected discounted penalty in discrete-time model. (Chinese. English and Chinese summaries)
Wang, X. Henry *see* **Menezes, Carmen F. et al., 2005m:91120**
Wang, Yan Chen (*with* Dai, Jin; Zhang, Bo[6]) On insurance actuarial functions under random interest rates. (Chinese. English and Chinese summaries) **2005j:91049**
Wang, Yun Jie (*with* Wang, Guo Jing) Ruin probability for a negative risk sum model perturbed by diffusion. (Chinese. English and Chinese summaries) **2005j:91050**
Wei, Xiao (*with* Hu, Yi-jun) Finite time ruin probability with variable interest rate and extended regular variation. (English summary) **2005j:91051**
— *see also* **Privault, Nicolas, 2005g:91123**
Wenzelburger, Jan Learning to predict rationally when beliefs are heterogeneous. (English summary) **2005a:91072**
Werner, Jan A simple axiomatization of risk-averse expected utility. (English summary) **2005m:91123**
Wise, Mark B. (*with* Lee, Peter B.; Bhansali, Vineer) Corporate bond risk from stock dividend uncertainty. (English summary)
Wong, Kit Pong (*with* Yick, Ho Yin) Currency options and export-flexible firms. (English summary)
Wu, Rong[1] *see* **Lu, Yu Hua, 2005k:91187** *and* **Du, Yonghong, 2005m:91117**
Xu, Cheng Ming *see* **Jiang, Tao[3], 2005a:91070**
Yang, Shan Chao (*with* Ma, Chong; Tan, Ji Yang) Risk model of random premium income. (Chinese. English and Chinese summaries) **2005k:91189**
Yi, Chao Qin (*with* Wan, Jian Ping) Application of principal-agent theory in the incentive mechanism of insurance agent. (Chinese. English and Chinese summaries)
Yick, Ho Yin *see* **Wong, Kit Pong**
Yin, Chuan Cun (*with* Chiu, S. N.) A diffusion perturbed risk process with stochastic return on investments. (English summary) **2005d:91072**
Yu, Fan[2] *see* **Jarrow, Robert A. et al., 2005k:91186**
Zagrodny, Dariusz *see* **Gajek, Lesław, 2005d:91067**
Zenios, Stavros A. *see* **D'Ecclesia, Rita L., 2005e:91099**
Zhang, Bo[6] *see* **Wang, Yan Chen et al., 2005j:91049**
Zhang, De-ran (*with* Mao, Shi Song) On the insurance risk models of general arrival of claims with constant interest force. (English and Chinese summaries) **2005a:91073**
Zhang, Suqin *see* **Tian, Jinlan et al., (2005c:00015)**
Zhang, Yi[3] (*with* Li, Zhi Ying) Risk model for interest randomness. (Chinese. English and Chinese summaries) **2005a:91074**
— *see also* **Lu, Tong-Yu, 2005d:91070**
Zhao, Ming Qing *see* **Gao, Ming Mei et al.**
Zhong, Chao Yan *see* **Hei, Shao Min et al.**
Zhu, Lin *see* **Tian, Jinlan et al., (2005c:00015)**

Items with secondary classifications in 91B30

Aggoun, Lakhdar Recursive estimation of the claim rates and sizes in an insurance model. **2005h:62282**
Akushevich, I. (*with* Kulminski, A.; Manton, K. G.) Life tables with covariates: dynamic model for nonlinear analysis of longitudinal data. (English summary)
Albers, Willem *see* **Reijnen, Rajko et al.**
Albrecher, Hansjörg (*with* Hartinger, Jürgen; Tichy, Robert F.) Multivariate approximation methods for the pricing of catastrophe-linked bonds. (English summary) (*see* **2005a:41001**)
— (*with* Boxma, Onno J.) A ruin model with dependence between claim sizes and claim intervals. (English summary)
— (*with* Hartinger, Jürgen; Tichy, Robert F.) On the distribution of dividend payments and the discounted penalty function in a risk model with linear dividend barrier. (English summary)
Altman, Edward I. *see* **Onorato, Mario, 2005g:91105**
Avram, Florin (*with* Pistorius, Martijn R.; Usabel, Miguel) The two barriers ruin problem via a Wiener Hopf decomposition approach. (English summary) **2005h:60118**
Back, Kerry (*with* Bielecki, Tomasz R.; Hipp, Christian; Peng, Shi Ge; Schachermayer, Walter) ★ Stochastic methods in finance. **2005h:91003**
Benati, Stefano The computation of the worst conditional expectation. (English summary) **2005k:90076**
Bening, V. E. (*with* Korolev, V. Yu.; Liu, Li Xin[2]) Asymptotic behavior of generalized risk processes. (English summary) **2005k:60070**
Bernard, Carole (*with* Le Courtois, Olivier; Quittard-Pinon, François) Market value of life insurance contracts under stochastic interest rates and default risk. (English summary)
Bertsimas, Dimitris (*with* Lauprete, Geoffrey J.; Samarov, Alexander) Shortfall as a risk measure: properties, optimization and applications. (English summary) **2005a:91052**
Bielecki, Tomasz R. *see* **Back, Kerry et al., 2005h:91003**
Boxma, Onno J. *see* **Albrecher, Hansjörg**
Bratīchuk, N. S. Semi-Markov walks in queueing and risk theory. (*see* **2005d:00014**)
Cai, Jun Ruin probabilities and penalty functions with stochastic rates of interest. (English summary) **2005b:60126**
— (*with* Li, Haijun) Multivariate risk model of phase type. (English summary) **2005k:60150**
Campana, Antonella Dependency of insurance risks and the Burr distribution. (English summary)
Carrière, J. F. Martingale valuation of cash flows for insurance and interest models. (English summary)
Cavazos-Cadena, Rolando (*with* Hernández-Hernández, Daniel) A characterization of the optimal risk-sensitive average cost in finite controlled Markov chains. (English summary) **2005m:93160**
Chambers, Robert G. (*with* Quiggin, John) Linear-risk-tolerant, invariant risk preferences. (English summary) **2005m:91055**
— *see also* **Quiggin, John, 2005a:91030**
Chen, Gui Lei *see* **Zhang, Xiang Hu**
Cheng, Feng Yang Ruin probabilities for large claims in generalized delayed renewal risk model. (English summary) **2005h:62283**
Cheung, Ka Chun (*with* Yang, Hailiang) Asset allocation: investment strategies for financial and insurance portfolio. **2005a:60100**
— (*with* Yang, Hailiang) Ordering optimal proportions in the asset allocation problem with dependent default risks. (English summary) **2005h:91100**
Chiu, S. N. (*with* Yin, Chuan Cun) The time of ruin, the surplus prior to ruin and the deficit at ruin for the classical risk process perturbed by diffusion. (English summary) **2005h:60265**
Collin-Dufresne, P. (*with* Goldstein, Robert; Hugonnier, Julien) A general formula for valuing defaultable securities. (English summary) **2005j:91039**
Cruz Rambaud, Salvador (*with* García Pérez, José; Sánchez Granero, Miguel Angel; Trinidad Segovia, Juan Evangelista) Theory of portfolios: new considerations on classic models and the capital market line. (English summary) **2005i:91061**
Dahl, Mikkel Stochastic mortality in life insurance: market reserves and mortality-linked insurance contracts. (English summary)
Dash, Jan W. ★ Quantitative finance and risk management. **2005h:91001**
D'Ecclesia, Rita L. Financial modelling and risk management.
Deelstra, Griselda (*with* Grasselli, Martino; Koehl, Pierre-François) Optimal design of the guarantee for defined contribution funds. (English summary) **2005c:91056**
De La Peña, Victor H. (*with* Ibragimov, Rustam; Jordan, Steve) Option bounds. (English summary) **2005d:91059**
Denuit, Michel (*with* Lang, Stefan[2]) Non-life rate-making with Bayesian GAMs. (English summary)
Dettweiler, Egbert ★ Risk processes. **2005m:60003**
Dickson, David C. M. *see* **Willmot, Gordon E. et al., 2005i:60175**
Ding, Ke Quan *see* **Gao, Jian Wei**
Ding, Zheng Zhong *see* **Yuan, Gui Qiu**
Dong, Ya Juan (*with* Zhu, Yong Hua) The ruin probability of a generalized risk model in insurance systems. (Chinese. English and Chinese summaries)
Drekic, Steve *see* **Willmot, Gordon E. et al., 2005i:60175**
Eichner, Thomas (*with* Wagener, Andreas) Measures of risk attitude: correspondences between mean-variance and expected-utility approaches. **2005m:91064**
Frangos, C. (*with* Zenios, Stavros A.; Yavin, Y.) Computation of feasible portfolio control strategies for an insurance company using a discrete time asset/liability model. (English summary) **2005f:91069**
(Frittelli, Marco) *see* **Back, Kerry et al., 2005h:91003**
Gao, Jian Wei (*with* Ding, Ke Quan) The actuarial present value model of life annuity based on generalized conditional AR(p) interest rate. (Chinese. English and Chinese summaries)
García Pérez, José *see* **Cruz Rambaud, Salvador et al., 2005i:91061**
Goldstein, Robert *see* **Collin-Dufresne, P. et al., 2005j:91039**
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Gordienko, Evgueni Stability estimates of generalized geometric sums and their applications. (English summary) **2005e:60098**
Grandits, Peter A Karamata-type theorem and ruin probabilities for an insurer investing proportionally in the stock market. (English summary) **2005a:60104**
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(Gundlach, Matthias) *see* **CreditRisk$^+$ in the banking industry, 2005c:91007**
Guo, Xin (*with* Liu, Jun; Zhou, Xun Yu) A constrained non-linear regular-singular stochastic control problem, with applications. (English summary) **2005g:49054**
Gutiérrez, Cristina (*with* Macdonald, Angus S.) Huntington's disease, critical illness insurance and life insurance. (English summary)
Hafner, Reinhold ★ Stochastic implied volatility. **2005c:91003**
Hammond, Peter J. (*with* Sun, Yeneng) Monte Carlo simulation of macroeconomic risk with a continuum of agents: the symmetric case. (English summary) **2005h:91172**
Hartinger, Jürgen *see* **Albrecher, Hansjörg et al., (2005a:41001)**
He, Shu Hong (*with* Xia, Zi Xiang) Ruin probability of a risk model of time surplus with stochastic interest. (Chinese. English and Chinese summaries)
Hernández-Hernández, Daniel *see* **Cavazos-Cadena, Rolando, 2005m:93160**
Hipp, Christian *see* **Back, Kerry et al., 2005h:91003**
Holm, Håkan J. Rights and decentralized computation. (English summary) **2005b:91094**
Hu, Ying[1] (*with* Imkeller, Peter; Müller, Matthias) Partial equilibrium and market completion. (English summary) **2005m:91080**
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Hürlimann, Werner Multivariate Fréchet copulas and conditional value-at-risk. (English summary) **2005c:62029**
— On the economic risk capital of portfolio insurance. (English summary) **2005f:62025**
Huzak, Miljenko (*with* Perman, Mihael; Šikić, Hrvoje; Vondraček, Zoran) Ruin probabilities and decompositions for general perturbed risk processes. (English summary) **2005f:60152**
— (*with* Perman, Mihael; Šikić, Hrvoje; Vondraček, Zoran) Ruin probabilities for competing claim processes. (English summary) **2005k:60237**
Ibragimov, Rustam *see* **De La Peña, Victor H. et al., 2005d:91059**
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Irgens, Christian (*with* Paulsen, Jostein) Optimal control of risk exposure, reinsurance and investments for insurance portfolios. (English summary) **2005c:93105**
— (*with* Paulsen, Jostein) Maximizing terminal utility by controlling risk exposure: a discrete-time dynamic control approach. (English summary) **2005k:90020**
Iwaki, Hideki (*with* Yumae, Shoji) An efficient frontier for participating policies in a continuous-time economy. (English summary) **2005h:91111**
Jaimungal, Sebastian (*with* Young, Virginia R.) Pricing equity-linked pure endowments with risky assets that follow Lévy processes. (English summary)
Jaworski, Piotr On uniform tail expansions of bivariate copulas. (English summary) **2005m:62119**
Jiang, Tao[3] (*with* Wang, Jia Qi) Ruin probability in a discrete risk model with stochastic interest rate. (Chinese. English and Chinese summaries) **2005g:62188**

Jobst, Norbert J. (*with* Zenios, Stavros A.) On the simulation of portfolios of interest rate and credit risk sensitive securities. (English summary)
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Ju, Biung-Ghi Strategy-proof risk sharing. (English summary) **2005j:91025**
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Kang, Kai *see* **Zhang, Xiaohong et al., 2005e:62148**
Karsak, E. Ertugrul (*with* Özogul, C. Okan) Valuation of expansion flexibility in flexible manufacturing system investments using sequential exchange options. (English summary)
Kekre, Sunder (*with* Rao, Uday S.; Sarthi, Samarth; Yi, Jinxin) Risk-based integration of strategic and tactical capacity planning. (English summary) **2005g:90040**
Kelbert, M. Ya. (*with* Rachev, Svetlozar T.; Sukhov, Yu. M.) The maximum of a tree-indexed random process, with applications. (English summary) **2005d:60083**
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Kim, Iltae *see* **Ryu, Suyeol**
Klüppelberg, Claudia (*with* Kyprianou, Andreas E.; Maller, Ross A.) Ruin probabilities and overshoots for general Lévy insurance risk processes. (English summary) **2005j:60097**
Koehl, Pierre-François *see* **Deelstra, Griselda et al., 2005c:91056**
Korn, Ralf (*with* Menkens, Olaf) On worst-case investment with applications in finance and insurance mathematics. (English summary) (*see* **2005i:00006**)
Korolev, V. Yu. (*with* Kudryavtsev, A. A.) Functional limit theorems for generalized risk processes. (Russian. Russian summary) **2005a:60042**
— (*with* Kudryavtsev, A. A.) The asymptotic behavior of the reserve of an insurance company described by the generalized risk process. **2005g:62182**
— *see also* **Bening, V. E. et al., 2005k:60070**
Kremer, Erhard Estimating the loading of the largest claims covers. (English summary) **2005b:62214**
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Kulperger, Reg Stochastic finance: discrete time processes and risk neutral pricing. (English summary) (*see* **2005g:60006**)
Kyprianou, Andreas E. *see* **Klüppelberg, Claudia et al., 2005j:60097**
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Li, Haijun *see* **Cai, Jun, 2005k:60150**
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Li, Ze Hui (*with* Yuan, Jun Qing) A random indemnity model of endowment insurance. (Chinese. English and Chinese summaries) **2005i:60131**
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Liu, Li Xin[2] *see* **Bening, V. E. et al., 2005k:60070**
Liu, Xiao Mao (*with* Li, Chu Lin) Sensitivity analysis of conditional value at risk. (Chinese. English and Chinese summaries) **2005h:91115**
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Loisel, Stéphane *see* **Rullière, Didier, 2005e:62146**
Lokk, Katrin (*with* Pärna, Kalev) On risk processes with double barriers. (English summary) **2005k:62239**
Lynn, Nicholas James The price of failure. (English summary) (*see* **2005a:62018**)
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Manton, K. G. *see* **Akushevich, I. et al.**
Mazza, Christian (*with* Rullière, Didier) A link between wave governed random motions and ruin processes. (English summary) **2005h:60125**
Mel′nikov, A. V. (*with* Nechaev, M. L.) On the pricing of equity linked-life insurance contracts in Gaussian financial environment. (English summary) **2005i:91064**
Menkens, Olaf *see* **Korn, Ralf, (2005i:00006)**
Mikrin, E. A. *see* **Zhukovskaya, L. V., 2005d:90061**
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Miyoshi, Naoto On the subexponential properties in stationary single-server queues: a Palm-martingale approach. (English summary) **2005g:60152**
Moore, Kristen S. (*with* Young, Virginia R.) Optimal design of a perpetual equity-indexed annuity. (English summary)
Müller, Matthias *see* **Hu, Ying[1] et al., 2005m:91080**
Nachbar, John H. (*with* Trockel, Walter; Yannelis, Nicholas C.) Editorial [The conferences at Bielefeld, St. Louis, and Urbana-Champaign].
Nechaev, M. L. *see* **Mel′nikov, A. V., 2005i:91064**
Nowak, Andrzej S. Notes on risk-sensitive Nash equilibria. (English summary) **2005i:91020**
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Onorato, Mario (*with* Altman, Edward I.) An integrated pricing model for defaultable loans and bonds. (English summary) **2005g:91105**
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Özturkmen, Emrah *see* **Trück, Stefan, (2005b:91009)**
Pan, Jia Zhu (*with* Yu, Bosco W. T.; Pang, Wan-Kai) How does innovation's tail risk determine marginal tail risk of a stationary financial time series? (English summary) **2005h:62255**
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— *see also* **Back, Kerry et al., 2005h:91003**
Perevozchikova, O. L. (*with* Tul′chinskiĭ, V. G.; Kharchenko, AndreĭVyacheslavovich) On specific features of minimizing the risk functional in large data sets. (Russian. English and Ukrainian summaries)
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Pistorius, Martijn R. *see* **Avram, Florin et al., 2005h:60118**
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— *see also* **Chambers, Robert G., 2005m:91055**
Quittard-Pinon, François (*with* Serant, Daniel) Preface [Special issue: Papers presented at the 7th IME Conference].
— *see also* **Bernard, Carole et al.**
Rachev, Svetlozar T. *see* **Kelbert, M. Ya. et al., 2005d:60083**
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Riedel, Frank Dynamic coherent risk measures. (English summary) **2005f:91077**
Roman, Steven ★ Introduction to the mathematics of finance. **2005b:91004**
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— *see also* **Mazza, Christian, 2005h:60125**
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Shchetinin, E. Yu. (*with* Lapushkin, A. S.) Statistical methods and mathematical models for estimating financial risk. (Russian. English and Russian summaries)
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Su, Jin Xia (*with* Zhao, Xue Jing; Li, Xiao Hu) Ruin probability under interest rates with autoregressive structure of order 2. (Chinese. English and Chinese summaries)
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Tang, Qi He (*with* Tsitsiashvili, G. Sh.) Randomly weighted sums of subexponential random variables with application to ruin theory. (English summary) **2005f:62031**
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Temnov, G. Risk process with random income.
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Trück, Stefan (*with* Özturkmen, Emrah) Estimation, adjustment and application of transition matrices in credit risk models. (English summary) (*see* **2005b:91009**)
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Tsanakas, Andreas Dynamic capital allocation with distortion risk measures. (English summary) **2005f:91021**
Tseng, Chung-Li (*with* Lin, Kyle Y.; Sundararajan, Satheesh K.) Managing cost overrun risk in project funding allocation. (English summary)
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— *see also* **Tang, Qi He, 2005f:62031**
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Wang, Rong Ming (*with* Yang, Hailiang; Wang, Han Xing) On the distribution of surplus immediately after ruin under interest force and subexponential claims. (English summary) **2005i:62151**
— *see also* **Zhang, Xiaohong et al.**, **2005e:62148**
Wang, Xiang (*with* Liu, Zai Ming) Ruin probability of a delay bivariate risk model. (Chinese. English and Chinese summaries)
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Wei, Li[2] *see* **Wu, Rong[1] et al.**, **2005b:60195**
Wei, Qiu Ping (*with* Zhang, Bo[6]) Some results on ruin probabilities in risk theory. (Chinese. English and Chinese summaries) **2005k:60154**
Willmot, Gordon E. (*with* Dickson, David C. M.; Drekic, Steve; Stanford, David A.) The deficit at ruin in the stationary renewal risk model. **2005i:60175**
Wu, Rong[1] (*with* Wang, Guo Jing; Wei, Li[2]) Joint distributions of some actuarial random vectors containing the time of ruin. (English summary) **2005b:60195**
Xia, Bing *see* **Yang, Rui-Cheng et al.**, **2005k:93246**
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Xiang, Yang Liu (*with* Liu, Zai Ming) Ruin probabilities in compound Poisson risk model with Markov-modulated premium rates. (Chinese. English and Chinese summaries)
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Yang, Hailiang *see* **Cheung, Ka Chun**, **2005a:60100**; **2005h:91100**; **Wei, Li**, **2005d:62167** *and* **Wang, Rong Ming et al.**, **2005i:62151**
Yang, Ming (*with* Li, Chu Lin) The optimal hedge ratio for uncertain multi-foreign currency cash flow. (English summary) **2005c:91068**
Yang, Rui-Cheng (*with* Liu, Kun Hui; Xia, Bing) Optimal impulse and regular control strategies for proportional reinsurance problem. (English summary) **2005k:93246**
Yannelis, Nicholas C. *see* **Nachbar, John H. et al.**
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Yin, Chuan Cun *see* **Chiu, S. N.**, **2005h:60265** *and* **Zhao, Xiang Hua**
Young, Virginia R. Pricing in an incomplete market with an affine term structure. (English summary) **2005d:91062**
— Optimal investment strategy to minimize the probability of lifetime ruin. (English summary) **2005f:60140**
— *see also* **Jaimungal, Sebastian** *and* **Moore, Kristen S.**
Yu, Bosco W. T. *see* **Pan, Jia Zhu et al.**, **2005h:62255**
Yuan, Gui Qiu (*with* Ding, Zheng Zhong) Principles of pricing the fixed-rate mortgage. (Chinese. English and Chinese summaries)
Yuan, Jun Qing *see* **Li, Ze Hui**, **2005i:60131**
Yumae, Shoji *see* **Iwaki, Hideki**, **2005h:91111**
Zenios, Stavros A. *see* **Frangos, C. et al.**, **2005f:91069** *and* **Jobst, Norbert J.**
Zhang, Bo[6] *see* **Wei, Qiu Ping**, **2005k:60154**
Zhang, Qiang[6] (*with* Ogaki, Masao) Decreasing relative risk aversion, risk sharing, and the permanent income hypothesis. (English summary)
Zhang, Xiang Hu (*with* Chen, Gui Lei) Bankruptcy probability with interference item and a Poisson process of the premium collection number. (Chinese. English and Chinese summaries)
Zhang, Xiaohong (*with* Wang, Rong Ming; Kang, Kai) A class of integral equations of Erlang(2) risk process under interest force. (English and Chinese summaries) **2005e:62148**
Zhao, Xiang Hua (*with* Yin, Chuan Cun) Ruin problems for a Sparre Andersen risk model. (English and Chinese summaries)
Zhao, Xue Jing *see* **Su, Jin Xia et al.**
Zhou, Xiao Wen When does surplus reach a certain level before ruin? (English summary) **2005g:60068**
Zhou, Xun Yu *see* **Guo, Xin et al.**, **2005g:49054**
Zhu, Yong Hua *see* **Dong, Ya Juan**
Zhukovskaya, L. V. An approach to risk formalization in decision making in automatic control systems. (Russian. Russian summary) **2005k:90143**
— (*with* Mikrin, E. A.) A new approach to the estimation of the effectiveness of control decisions under risk conditions in automatic control systems. (Russian. Russian summary) **2005d:90061**
— (*with* Mikrin, E. A.) A new approach to risk estimation in multicriterial automatic control systems. II. (Russian. Russian summary)
Zmeškal, Zdeněk Value at risk methodology under soft conditions approach (fuzzy-stochastic approach). (English summary) **2005e:91098**

Items listed otherwise than by author

Bressanone/Brixen *see* **Back, Kerry et al.**, **2005h:91003**
CreditRisk$^+$ in the banking industry ★ CreditRisk$^+$ in the banking industry. **2005c:91007**
Lecture Notes in Economics and Mathematical Systems *see* **Hafner, Reinhold**, **2005c:91003**
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Stochastic methods in finance *see* **Back, Kerry et al.**, **2005h:91003**

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Barbanel, Julius B. (*with* Brams, Steven J.) Cake division with minimal cuts: envy-free procedures for three persons, four persons, and beyond. (English summary) **2005e:91105**
Beraldi, Patrizia *see* **Triki, Chefi et al.**
Bish, Ebru K. (*with* Wang, Qiong) Optimal investment strategies for flexible resources, considering pricing and correlated demands. (English summary) **2005g:91127**
Bjørndal, Endre (*with* Hamers, Herbert; Koster, Maurice) Cost allocation in a bank ATM network. (English summary) **2005e:91106**
Borm, Peter *see* **Calleja, Pedro et al.**, **2005k:91190**
Brams, Steven J. *see* **Barbanel, Julius B.**, **2005e:91105**
Brânzei, Rodica (*with* Dimitrov, Dinko; Pickl, Stefan Wolfgang; Tijs, S. H.) How to cope with division problems under interval uncertainty of claims? (English summary) **2005e:91107**
Brueckner, Sven A. *see* **Savit, Robert et al.**, **2005g:91128**
Calleja, Pedro (*with* Borm, Peter; Hendrickx, Ruud) Multi-issue allocation situations. (English summary) **2005k:91190**
Chambers, Christopher P. Consistency in the probabilistic assignment model. (English summary) **2005f:91090**
Chun, Youngsub (*with* Thomson, William L.) Convergence under replication of rules to adjudicate conflicting claims. (English summary) **2005h:91135**
Cowell, Frank (*with* Ebert, Udo) Complaints and inequality. (English summary) **2005b:91144**
De Waegenaere, Anja (*with* Suijs, Jeroen; Tijs, S. H.) Stable profit sharing in cooperative investments. (English summary) **2005m:91124**
Dimitrov, Dinko *see* **Brânzei, Rodica et al.**, **2005e:91107**
Dutta, Bhaskar (*with* Kar, Anirban) Cost monotonicity, consistency and minimum cost spanning tree games. (English summary) **2005c:91072**
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Ehlers, Lars (*with* Klaus, Bettina) Resource-monotonicity for house allocation problems. (English summary) **2005i:91074**
Fragnelli, Vito (*with* Iandolino, Anna) A cost allocation problem in urban solid wastes collection and disposal. (English summary)
García, Diego Monotonicity in direct revelation mechanisms. (English summary) **2005m:91125**
Gersbach, Hans Dividing resources by flexible majority rules. (English summary) **2005c:91073**
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Huang, Jih-Jeng (*with* Tzeng, Gwo-Hshiung; Ong, Chorng-Shyong) Motivation and resource-allocation for strategic alliances through the De Novo perspective. (English summary)
Iandolino, Anna *see* **Fragnelli, Vito**
Iskakov, M. B. Equilibrium in safe strategies. (Russian. Russian summary) **2005m:91126**
Jackson, Matthew O. (*with* Kremer, Ilan) The relationship between the allocation of goods and a seller's revenue. (English summary) **2005b:91145**
Kar, Anirban *see* **Dutta, Bhaskar**, **2005c:91072**
Kim, Hyungjun Population monotonic rules for fair allocation problems. (English summary) **2005c:91074**
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Laeven, Roger J. A. (*with* Goovaerts, Marc J.) An optimization approach to the dynamic allocation of economic capital. (English summary) **2005e:91108**
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Lucas, André *see* **Siegmann, Arjen**
Maniquet, François On the equivalence between welfarism and equality of opportunity. (English summary) **2005b:91146**
Massó, Jordi (*with* Neme, Alejandro) A maximal domain of preferences for strategy-proof, efficient, and simple rules in the division problem. (English summary) **2005c:91075**
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Sauter, John *see* **Savit, Robert et al.**, **2005g:91128**
Savit, Robert (*with* Brueckner, Sven A.; Van Dyke Parunak, H.; Sauter, John) General structure of a class of resource allocation games. (English summary) **2005g:91128**
Sharkey, William W. *see* **McLean, Richard P. et al.**, **2005c:91076**
Siegmann, Arjen (*with* Lucas, André) Discrete-time financial planning models under loss-averse preferences. (English summary)
Su, Xuejuan The allocation of public funds in a hierarchical educational system. (English summary)
Suijs, Jeroen *see* **De Waegenaere, Anja et al.**, **2005m:91124**
Sung, Shao Chin (*with* Vlach, Milan) Competitive envy-free division. (English summary) **2005b:91148**
Tanimoto, Keishi (*with* Kita, Hideyuki) Empirical study on fair allocation of joint project by cooperative game theory—a case of local bus transportation service in Japan—. (English summary)
Thomson, William L. Divide-and-permute. (English summary) **2005m:91127**
— *see also* **Chun, Youngsub**, **2005h:91135**
Tijs, S. H. (*with* Meca-Martínez, Ana; López, Marco A.) Benefit sharing in holding situations. (English summary) **2005g:91129**
— *see also* **Brânzei, Rodica et al.**, **2005e:91107** *and* **De Waegenaere, Anja et al.**, **2005m:91124**
Triki, Chefi (*with* Beraldi, Patrizia; Gross, George) Optimal capacity allocation in multi-auction electricity markets under uncertainty. (English summary)

Tzeng, Gwo-Hshiung *see* **Huang, Jih-Jeng et al.**
Van Dyke Parunak, H. *see* **Savit, Robert et al., 2005g:91128**
Vasil′ev, Valerīĭ A. Contractual M-core and equilibrium allocations. (English and Russian summaries) **2005k:91192**
Vlach, Milan *see* **Sung, Shao Chin, 2005b:91148**
Wang, Qiong *see* **Bish, Ebru K., 2005g:91127**

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Agrawal, Vipul (*with* Chao, Xiuli; Seshadri, Sridhar) Dynamic balancing of inventory in supply chains. (English summary) **2005c:90037**
Alcalde, José (*with* Silva, José A.) A proposal for sharing costs. (English summary) **2005g:91026**
Alkan, Ahmet (*with* Moulin, Hervé) Editorial [Proceedings of the NATO Advanced Research Workshop on Mathematical Theories of Allocation of Discrete Resources: Equilibria, Matchings, Mechanisms].
Aronsson, Martin *see* **Sjöland, Thomas et al.,** (**2005f:68005a**)
Astrakov, S. N. (*with* Erzin, A. I.) A model of a self-regulating system. (Russian. English summary) **2005h:90142**
Balbus, Łukasz (*with* Nowak, Andrzej S.) Construction of Nash equilibria in symmetric stochastic games of capital accumulation. (English summary) **2005k:91041**
Bardhan, A. K. *see* **Kapur, P. K. et al.**
Borm, Peter (*with* Norde, Henk; García-Jurado, Ignacio; Patrone, Fioravante) Preface [Special issue on game practice].
Brams, Steven J. (*with* Edelman, Paul H.; Fishburn, Peter C.) Fair division of indivisible items. (English summary) **2005b:90057**
Burnetas, Apostolos *see* **Örmeci, E. Lerzan, 2005d:90135**
Busch, Costas *see* **Magdon-Ismail, Malik et al., 2005c:68099**
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Chang, Chun-Tao (*with* Teng, Jinn-Tsair) Retailer's optimal ordering policy under supplier credits. (English summary) **2005k:90003**
Chao, Xiuli *see* **Agrawal, Vipul et al., 2005c:90037**
Chen, Zhi-Long Simultaneous job scheduling and resource allocation on parallel machines. (English summary) **2005a:90059**
Cruz Rambaud, Salvador (*with* Valls Martínez, María Del Carmen) Profit-sharing in transactions governed by a subadditive capitalization function. (English summary) **2005i:91062**
Dierker, Egbert (*with* Dierker, Hildegard; Grodal, Birgit) Are incomplete markets able to achieve minimal efficiency? (English summary) **2005i:91078**
Dierker, Hildegard *see* **Dierker, Egbert et al., 2005i:91078**
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Ekel, P. Ya. *see* **Galperin, Efim A. et al., 2005f:90117**
Erlebach, Thomas (*with* Pagourtzis, Aris; Potika, Katerina; Stefanakos, Stamatis) Resource allocation problems in multifiber WDM tree networks. (English summary) **2005d:90020**
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Fishburn, Peter C. *see* **Brams, Steven J. et al., 2005b:90057**
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Friedman, Eric J. Paths and consistency in additive cost sharing. (English summary) **2005i:91015**
Galperin, Efim A. (*with* Ekel, P. Ya.; Pereira, J. G., Jr.) Cubic algorithm for global optimization with box and equality constraints and application to optimal allocation of resources. (English summary) **2005f:90117**
— Balance set and Pareto solutions in linear spaces with application to ongoing optimal resource allocation, investment planning, production, and control problems with multiple objectives. (English summary) **2005f:90105**
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Goldenok, E. E. Direct and inverse eventological Markowitz problems: management of personnel and use of resources. (Russian. English summary) **2005h:91106**
Grodal, Birgit *see* **Dierker, Egbert et al., 2005i:91078**
Han, Hai-Shan (*with* Xia, Zun Quan) A Stackelberg model for server-proxies-users systems. (English summary) **2005g:91062**
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Heikkinen, Tiina Power allocation in a wireless network using scheduling and stochastic programming with penalty functions. (English summary) **2005f:90020**
Jha, P. C. *see* **Kapur, P. K. et al.**
Johari, Ramesh (*with* Tsitsiklis, John N.) Efficiency loss in a newtork resource allocation game. (English summary) **2005e:90014**
Kalkbrener, Michael An axiomatic approach to capital allocation. (English summary) **2005m:91106**
Kapur, P. K. (*with* Jha, P. C.; Bardhan, A. K.) Optimal allocation of testing resource for a modular software. (English summary)
Kaspi, Moshe *see* **Shabtay, Dvir, 2005b:90053**
Katagiri, Hideki *see* **Nishizaki, Ichiro et al.**
Koenig, Mark *see* **Tütüncü, Reha H., 2005g:91113**
Kolpin, Van (*with* Wilbur, Dameon) Bayesian serial cost sharing. (English summary) **2005i:91016**
Koutsoupias, Elias Selfish task allocation.
Kreuger, Per *see* **Sjöland, Thomas et al.,** (**2005f:68005a**)
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Lai, Kin Keung (*with* Ng, Wan-Lung) A stochastic approach to hotel revenue optimization. (English summary)
Lamberton, Damien (*with* Pagès, Gilles; Tarrès, Pierre) When can the two-armed bandit algorithm be trusted? (English summary) **2005k:62183**
Lomonosov, Andrew (*with* Sitharam, Meera; Park, Kihong[2]) Network QoS games: stability vs optimality tradeoff. (English summary) **2005d:91006**
Magdon-Ismail, Malik (*with* Busch, Costas; Krishnamoorthy, Mukkai S.) Cake-cutting is not a piece of cake. (English summary) **2005c:68099**
Mallik, Suman (*with* Harker, Patrick T.) Coordinating supply chains with competition: capacity allocation in semiconductor manufacturing. (English summary) **2005b:90058**
McGarvey, Ronald G. (*with* Cavalier, Tom M.) Constrained location of competitive facilities in the plane. (English summary) **2005d:90071**
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Neagu, Nicoleta ★ Constraint satisfaction techniques for agent-based reasoning. **2005k:68182**
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Nishizaki, Ichiro (*with* Sakawa, Masatoshi; Katagiri, Hideki; Uemura, Yoshio) Cost allocation based on the solution concept from fuzzy cooperative games for a production and transportation problem—a case study. (English summary)
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Nowak, Andrzej S. *see* **Balbus, Łukasz, 2005k:91041**
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Pereira, J. G., Jr. *see* **Galperin, Efim A. et al., 2005f:90117**
Porter, Ryan (*with* Shoham, Yoav; Tennenholtz, Moshe) Fair imposition. (English summary) **2005f:91009**
Potika, Katerina *see* **Erlebach, Thomas et al., 2005d:90020**
Procaccia, Uriel (*with* Segal, Uzi) Super majoritarianism and the endowment effect. (English summary) **2005f:91116**
Rachev, Svetlozar T. (*with* Ortobelli Lozza, Sergio; Schwartz, Eduardo) The problem of optimal asset allocation with stable distributed returns. (English summary) **2005g:62184**
Reznik, Alex (*with* Kulkarni, Sanjeev R.; Verdú, Sergio) Degraded Gaussian multirelay channel: capacity and optimal power allocation. (English summary)
Rudolf, Markus (*with* Ziemba, William T.) Intertemporal surplus management. (English summary) **2005b:91130**
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Sertel, Murat R. (*with* Yildiz, Muhamet) Core is manipulable via segmentation. (English summary) **2005e:91022**
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Sgall, Jiří (*with* Woeginger, Gerhard J.) A lower bound for cake cutting. (English summary) (*see* **2005c:68003**)
Shabtay, Dvir (*with* Kaspi, Moshe) Minimizing the total weighted flow time in a single machine with controllable processing times. (English summary) **2005b:90053**
Shi, Shouyong The extent of the market and optimal specialization. (English summary) **2005k:91132**
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Sitharam, Meera *see* **Lomonosov, Andrew et al., 2005d:91006**
Sjöland, Thomas (*with* Kreuger, Per; Aronsson, Martin) Heterogeneous scheduling and rotation. (English summary) (*see* **2005f:68005a**)
Sönmez, Tayfun (*with* Ünver, M. Utku) House allocation with existing tenants: an equivalence. (English summary) **2005m:91063**
Stefanakos, Stamatis *see* **Erlebach, Thomas et al., 2005d:90020**
Stoilov, T. *see* **Stoilova, K. et al.**
Stoilova, K. (*with* Stoilov, T.; Yoshinov, R.) Predictive coordination in two level hierarchical systems. (English summary)
Tarrès, Pierre *see* **Lamberton, Damien et al., 2005k:62183**
Tasnádi, Attila A characterization of the proportional probabilistic rationing method. (Hungarian. English and Hungarian summaries) **2005h:60027**
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Tennenholtz, Moshe *see* **Porter, Ryan et al., 2005f:91009**
Tone, Kaoru (*with* Sahoo, Biresh K.) Degree of scale economies and congestion: a unified DEA approach. (English summary) **2005a:90049**
Toporkov, V. V. Optimization of resource allocation in hard real-time systems. (Russian. Russian summary)
Tsitsiklis, John N. *see* **Johari, Ramesh, 2005e:90014**
Tütüncü, Reha H. (*with* Koenig, Mark) Robust asset allocation. (English summary) **2005g:91113**
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Ünver, M. Utku *see* **Sönmez, Tayfun, 2005m:91063**
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Dow, Gregory K. The firm as a nexus of strategies. (English summary) **2005h:91136**
Ecer, Sencer A rational expectations critique of merger policy analysis. (English summary)

Fève, Patrick *see* **Auray, Stéphane**
Fujiwara, Yoshi Zipf law in firms bankruptcy. (English summary)
Fukuyama, Hirofumi (*with* Weber, William L.) Testing for inverse homotheticity: a nonparametric approach. (English summary) **2005g:91130**
Gifford, Sharon To make or buy: an allocation of attention. (English summary) **2005h:91137**
Gill, David (*with* Sgroi, Daniel) Sequential decision-making and asymmetric equilibria: an application to takeovers. (English summary)
Harrington, Joseph E., Jr. (*with* Chang, Myong-Hun) Co-evolution of firms and consumers and the implications for market dominance. (English summary) **2005h:91138**
Hau, Arthur Theory of the firm facing uncertain demand revisited. (English summary) **2005k:91193**
Hougaard, Jens Leth A simple approximation of productivity scores of fuzzy production plans. (English summary)
Kim, Jeong-Yoo (*with* Lim, Yoonsung) The revenue-sharing rule for interconnection charges. (English summary)
Li, Ping[9] *see* **Liu, Wen Ping et al., 2005c:91077**
Lim, Yoonsung *see* **Kim, Jeong-Yoo**
Lin, Chin-Tsai (*with* Wu, Cheng-Ru) Real options: batch process and market entry/exit decisions under uncertainty. (English summary) **2005h:91139**
— (*with* Wu, Cheng-Ru) Real options and the choice of foreign production strategy between two countries. (English summary) **2005b:91149**
Liu, Wen Ping (*with* Li, Ping[9]; Sun, Zhi Hua) Evaluation of an R & D project with contracting options under constant tax rate. (Chinese. English and Chinese summaries) **2005c:91077**
Luna, Francesco Research and development in computable production functions. (English summary) **2005g:91131**
Nahuis, Richard The magnification effect of trade on wages with endogenous technology. (English summary)
Nehring, Klaus (*with* Puppe, Clemens) Modelling cost complementarities in terms of joint production. (English summary) **2005c:91078**
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Schneeweiß, Christoph On the empirical validity of production theory. (English summary)
Sgroi, Daniel *see* **Gill, David**
Shiryaev, V. I. *see* **Smolin, V. V., 2005h:91140**
Smolin, V. V. (*with* Shiryaev, V. I.) Estimation of the unknown parameters and state of microeconomic systems under uncertainty conditions using the example of a production-sales firm. (Russian. Russian summary) **2005h:91140**
Sun, Zhi Hua *see* **Liu, Wen Ping et al., 2005c:91077**
Tsou, Jia-Chi (*with* Chen, Jen-Ming) Economic production quantity model with continuous quality inspection. (English summary)
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Wu, Cheng-Ru *see* **Lin, Chin-Tsai, 2005b:91149** *and* **2005h:91139**

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Buehler, Stefan (*with* Schmutzler, Armin) Asymmetric vertical integration. (English summary) **2005i:91046**
Chowdhury, Prabal Roy (*with* Sengupta, Kunal) Coalition-proof Bertrand equilibria. (English summary) **2005k:91012**
Denti, Enrico (*with* Prati, Nando) Relevance of winning coalitions in indirect control of corporations. (English summary) **2005g:91029**
Dompere, Kofi Kissi ★ Cost-benefit analysis and the theory of fuzzy decisions.
Feichtinger, Gustav *see* **Hartl, Richard F. et al., 2005g:91146**
Hartl, Richard F. (*with* Kort, Peter M.; Feichtinger, Gustav; Wirl, Franz) Multiple equilibria and thresholds due to relative investment costs. (English summary) **2005g:91146**
Hasfura-Buenaga, Julio-Roberto (*with* Holder, Allen; Stuart, Jeffrey) The asymptotic optimal partition and extensions of the nonsubstitution theorem. (English summary) **2005g:90076**
Holder, Allen *see* **Hasfura-Buenaga, Julio-Roberto et al., 2005g:90076**
Klein Haneveld, W. K. (*with* Stegeman, A. W.) Crop succession requirements in agricultural production planning. (English summary)
Kort, Peter M. *see* **Hartl, Richard F. et al., 2005g:91146**
Liao, Chun-Hsiung (*with* Tauman, Yair) There is a free lunch after all. (English summary) **2005a:91063**
Martimort, David (*with* Verdier, Thierry) The agency cost of internal collusion and Schumpeterian growth. (English summary) **2005e:91121**
Martínez-Legaz, Juan Enrique (*with* Rubinov, Aleksandr M.; Schaible, Siegfried) Increasing quasiconcave co-radiant functions with applications in mathematical economics. (English summary) **2005m:90088**
Phan Thiên Thạch Dual preference in Leontief production problem and its extension. (English summary) **2005d:90042**
Prati, Nando *see* **Denti, Enrico, 2005g:91029**
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Watanapa, Bunthit (*with* Techanitisawad, Anulark) Simultaneous price and due date settings for multiple customer classes. (English summary)
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Wirl, Franz *see* **Hartl, Richard F. et al., 2005g:91146**
Wong, Kit Pong (*with* Yick, Ho Yin) Currency options and export-flexible firms. (English summary)
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Amable, Bruno *see* **Ernst, Ekkehard C. et al., 2005m:91128**
Andersen, Torben M. Migration, taxation and educational incentives. (English summary) **2005k:91194**
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Bull, Jesse (*with* Watson, Joel) Evidence disclosure and verifiability. (English summary) **2005c:91079**
Carlier, Guillaume (*with* Renou, Ludovic) A costly state verification model with diversity of opinions. (English summary) **2005h:91141**
De Fraja, Gianni Reverse discrimination and efficiency in education. (English summary)
Ernst, Ekkehard C. (*with* Amable, Bruno; Palombarini, Stefano) Endogenous shocks and evolutionary strategy: application to a three-players game. (English summary) **2005m:91128**
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Lang, Kevin (*with* Majumdar, Sumon) The pricing of job characteristics when markets do not clear: theory and policy implications. (English summary)
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Marjit, Sugata (*with* Kar, Saibal) Emigration and wage inequality. (English summary)
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Ozerturk, Saltuk Board independence and CEO pay. (English summary)
Palombarini, Stefano *see* **Ernst, Ekkehard C. et al., 2005m:91128**
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Profeta, Paola Aging, retirement and social security in a model of interest groups. (English summary)
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Vogel, Thorsten *see* **Funk, Peter, 2005b:91150**
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Zenou, Yves *see* **Jellal, Mohamed et al.**
Zhang, Long (*with* Song, Shi Ji; Wu, Cheng[3]) Supply chain coordination of loss-averse newsvendor with contract. (English summary) **2005j:91053**

Items with secondary classifications in 91B40

Aoki, Masanao (*with* Yoshikawa, Hiroshi) A new model of labor dynamics: ultrametrics, Okun's law, and transient dynamics. (English summary) **2005k:91228**
Bikhchandani, Sushil (*with* Lippman, Steven A.; Ryan, Reade) On the right-of-first-refusal. (English summary) **2005m:91069**
Cai, Xiao-Qiang (*with* Li, Yongjian; Tu, Fengsheng) Solving manpower planning problem with two types of jobs under uncertainty demand. (English summary)
Chattopadhyay, Asis Kumar (*with* Khan, Shahjahan) A statistical model of occupational mobility—a salary based measure. (English summary)
(Chaudhuri, Sarbajit) *see* **Errata: "Child labour and trade liberalization"**
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Ehlers, Lars In search of advice for participants in matching markets which use the deferred-acceptance algorithm. (English summary) **2005b:91092**
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(Gupta, Manash Ranjan) *see* **Errata: "Child labour and trade liberalization"**
Hassler, John (*with* Rodríguez Mora, José V.; Storesletten, Kjetil; Zilibotti, Fabrizio) A positive theory of geographic mobility and social insurance. (English summary) **2005h:91179**
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Johannesson, Magnus *see* **Ellingsen, Tore**
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Khan, Shahjahan *see* **Chattopadhyay, Asis Kumar**
Klaus, Bettina (*with* Klijn, Flip) Stable matchings and preferences of couples. (English summary) **2005k:91236**
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Lakdawalla, Darius (*with* Sood, Neeraj) Social insurance and the design of innovation incentives. (English summary)
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Marquetti, Adalmir Do rising real wages increase the rate of labor-saving technical change? Some econometric evidence. (English summary)
Martínez, Ruth (*with* Massó, Jordi; Neme, Alejandro; Oviedo, Jorge) On group strategy-proof mechanisms for a many-to-one matching model. (English summary) **2005g:91149**
Massó, Jordi *see* **Martínez, Ruth et al.**, **2005g:91149**
Meier, Volker Economic consequences of the Posted Workers Directive. (English summary)
Nahuis, Richard The magnification effect of trade on wages with endogenous technology. (English summary)
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Storesletten, Kjetil *see* **Hassler, John et al.**, **2005h:91179**
Tu, Fengsheng *see* **Cai, Xiao-Qiang et al.**
Vahey, Shaun P. Signalling ability to pay and rent sharing dynamics. (English summary) **2005b:91051**
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Zhang, Jie[5] Income ranking and convergence with physical and human capital and income inequality. (English summary) **2005h:91168**
Zilibotti, Fabrizio *see* **Hassler, John et al.**, **2005h:91179**

Items listed otherwise than by author

Errata:
"Child labour and trade liberalization" Errata: "Child labour and trade liberalization" [Jpn. Econ. Rev. **55** (2004), no. 2, 201–211; MR2064025] by S. Chaudhuri and M. R. Gupta.
Lecture Notes in Economics and Mathematical Systems *see* **Lingens, Jörg**, **2005c:91006**

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Bandyopadhyay, Swapnendu (*with* Acharyya, Rajat) Process and product innovation: complementarity in a vertically differentiated monopoly with discrete consumer types. (English summary) **2005g:91134**
— *see also* **Errata: "Process and product innovation: complementarity in a vertically differentiated monopoly with discrete consumer types"**
Chen, Miao-Sheng (*with* Ting, Chih-Wen) Modifying the dynamic market demand function while considering the market trade information and the consumers' affordability. (English summary)
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LaFrance, Jeffrey T. Integrability of the linear approximate almost ideal demand system. (English summary) **2005b:91154**
Liu, Ying Fan (*with* Chen, Tian Ping) A solvability theorem on a class of conditional input-output equation. (Chinese. English and Chinese summaries) **2005i:91076**
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Ravikumar, K. (*with* Saroop, Atul; Narahari, H. K.; Dayama, Pankaj) Demand sensing in e-business. (English summary)
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Unayama, Takashi Upward bias in the consumer price index under the zero-inflation economy. (English summary)

Items listed otherwise than by author

Errata:
"Process and product innovation: complementarity in a vertically differentiated monopoly with discrete consumer types" Errata: "Process and product innovation: complementarity in a vertically differentiated monopoly with discrete consumer types" [Jpn. Econ. Rev. **55** (2004), no. 2, 175–200; MR2064024 (2005g:91134)] by S. Bandyopadhyay and R. Acharyya.

Items with secondary classifications in 91B42

Berry, Steve (*with* Linton, Oliver B.; Pakes, Ariel) Limit theorems for estimating the parameters of differentiated product demand systems. (English summary) **2005c:62054**
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Hahn, Sunku Allowing a pre-purchase product trial in duopoly. (English summary)
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Jebsi, Khaïreddine (*with* Thomas, Lionel) Optimal pricing for selling a congestible good with countervailing incentives. (English summary) **2005a:91039**
Levin, V. L. Methods in the mathematical theory of demand, associated with the Monge-Kantorovich duality. (Russian) **2005k:49122**
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Sheu, Shey-Huei (*with* Yu, Shiueh-Ling) Warranty strategy accounts for bathtub failure rate and random minimal repair cost. (English summary)
Sumichrast, Robert T. *see* **Chun, Young H.**, **2005k:90063**
Talluri, Kalyan T. (*with* van Ryzin, Garrett J.) ★ The theory and practice of revenue management.
Thomas, Lionel *see* **Jebsi, Khaïreddine**, **2005a:91039**
Van den Poel, Dirk (*with* Buckinx, Wouter) Predicting online-purchasing behaviour. (English summary)
Xue, Ming Gao A consumption-investment growth model. (Chinese. English and Chinese summaries)
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Hendel, Igal (*with* Lizzeri, Alessandro; Siniscalchi, Marciano) Efficient sorting in a dynamic adverse-selection model. (English summary) **2005k:91197**
Jackson, Matthew O. (*with* Simon, Leo K.; Swinkels, Jeroen M.; Zame, William R.) Corrigendum to: "Communication and equilibrium in discontinuous games of incomplete information" [Econometrica **70** (2002), no. 5, 1711–1740; MR1925155 (2003g:91074)]. **2005f:91092**
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Ahituv, Niv (*with* Greenstein, Gil) The impact of accessibility on the value of information and the productivity paradox. (English summary) **2005e:90047**
Bandyopadhyay, Swapnendu (*with* Acharyya, Rajat) Process and product innovation: complementarity in a vertically differentiated monopoly with discrete consumer types. (English summary) **2005g:91134**
Dubey, Pradeep (*with* Geanakoplos, John; Shubik, Martin) Default and punishment in general equilibrium. (English summary) **2005k:91198**
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Items listed otherwise than by author

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Busch, Lutz-Alexander (*with* Govindan, Srihari) Robust nonexistence of equilibrium with incomplete markets. (English summary) **2005c:91081**
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Chichilnisky, Graciela (*with* Gorbachev, Olga) Volatility in the knowledge economy. (English summary) **2005e:91114**
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Kong, De Zhou (*with* Ding, Xie Ping) Fixed-point and maximal-element theorems with applications to abstract economies. (Chinese. English and Chinese summaries)
Konnov, Igor V. (*with* Mazurkevich, E. O.) An equilibrium model under oligopoly conditions with several technologies. (Russian) **2005g:91140**
— (*with* Mazurkevich, E. O.) An equilibrium model with a demand function of Cobb-Douglas type. (Russian) **2005j:91055**
Konovalov, Alexander The core of an economy with satiation. (English summary) **2005k:91202**
Krebs, Tom Testable implications of consumption-based asset pricing models with incomplete markets. (English summary) **2005a:91080**
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— Is intertemporal choice theory testable? (English summary) **2005c:91086**
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Lai, Tsung-Chyan (*with* Lin, Yen-Cherng; Yao, Jen Chih) Existence of equilibrium for abstract economics on pseudo H-spaces. (English summary) **2005g:91141**
Li, Yan[5] (*with* Ding, Xie Ping) Applications of generalized R-KKM theorems in topological spaces. (Chinese. English and Chinese summaries)
Lin, Yen-Cherng *see* **Lai, Tsung-Chyan et al., 2005g:91141**
Marakulin, V. M. Equilibrium analysis of Kantorovich spaces. (Russian. English and Russian summaries) **2005h:91150**
Martins-da-Rocha, V. Filipe Equilibria in large economies with differentiated commodities and non-ordered preferences. (English summary) **2005d:91075**
— *see also* **Araujo, Aloisio et al., 2005e:91113**
Mazurkevich, E. O. *see* **Konnov, Igor V., 2005g:91140** *and* **2005j:91055**
Mockus, Jonas Walras competition model, an example of global optimization. (English and Lithuanian summaries) **2005h:91151**
Monteiro, Paulo K. *see* **Araujo, Aloisio et al., 2005e:91113**
Mukerji, Sujoy (*with* Tallon, Jean-Marc) Ambiguity aversion and the absence of indexed debt. (English summary) **2005c:91087**
Murphy, Frederic H. (*with* Sen, Suvrajeet) Qualitative implications of uncertainty in economic equilibrium models. **2005a:91081**
Nachbar, John H. General equilibrium comparative statics: discrete shocks in production economies. (English summary) **2005j:91056**
Park, Jong Yeoul *see* **Ding, Xie Ping, 2005a:91078**
Park, Sehie New versions of the Fan-Browder fixed point theorem and existence of economic equilibria. **2005g:91142**
Pavlova, Anna *see* **Basak, Suleyman, 2005c:91080**
Pietra, Tito Sunspots, indeterminacy and Pareto inefficiency in economies with incomplete markets. (English summary) **2005c:91088**
Podczeck, K. On core-Walras equivalence in Banach spaces when feasibility is defined by the Pettis integral. (English summary) **2005k:91203**
Polemarchakis, Herakles M. *see* **Kubler, Felix, 2005c:91085** *and* **Bloise, Gaetano et al., 2005g:91136**
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Sciubba, Emanuela Asymmetric information and survival in financial markets. (English summary) **2005h:91152**
Scotchmer, Suzanne Consumption externalities, rental markets and purchase clubs. (English summary) **2005g:91143**
Sen, Suvrajeet *see* **Murphy, Frederic H., 2005a:91081**
Shubik, Martin *see* **Dubey, Pradeep et al., 2005k:91198**
Slavov, Zdravko Dimitrov Structure of the Pareto optimality set with fixed total resources and consumption sets. (English summary) **2005a:91082**
Snyder, Susan K. Observable implications of equilibrium behavior on finite data. (English summary) **2005a:91083**
— *see also* **Carvajal, Andrés et al., 2005a:91077**
Srinivasan, P. S. (*with* Veeramani, P.) On existence of equilibrium pair for constrained generalized games. **2005a:91084**
Stinchcombe, Maxwell B. *see* **Harris, Christopher J. et al., 2005g:91139**
Tallon, Jean-Marc *see* **Mukerji, Sujoy, 2005c:91087**
Tourky, Rabee *see* **Aliprantis, Charalambos D. et al., 2005e:91112**
Varga, Csaba (*with* Csapó, Hajnalka) Contingent Nash points for set-valued maps. (English summary) **2005k:91204**
Vasin, A. A. Price competition in olygopoly: the conditions of convergence to and deviation from Walrasian equilibrium. **2005c:91089**
Veeramani, P. *see* **Srinivasan, P. S., 2005a:91084**
Villanacci, Antonio (*with* Zenginobuz, E. Ünal) Existence and regularity of equilibria in a general equilibrium model with private provision of a public good. (English summary) **2005m:91131**
— *see also* **Citanna, Alessandro, 2005c:91082**
Vind, Karl *see* **Grodal, Birgit, 2005h:91147**
Wang, Da-cheng Some parametric non-compact KKM theorems and their applications in generalized interval spaces. (English and Chinese summaries)
Werner, Jan *see* **Huang, Kevin X. D., 2005c:91084**
Woodbury, Greg Sufficient conditions for equilibrium in dynamical systems. (English summary)
Wright, Randall *see* **Burdett, Kenneth et al.**
Yamazaki, Akira Monetary equilibrium with buying and selling price spread without transactions costs. (English summary) **2005c:91090**
Yang, Hui[4] *see* **Yu, Jian[1], 2005h:91153**
Yao, Jen Chih *see* **Lai, Tsung-Chyan et al., 2005g:91141**
Yu, Jian[1] (*with* Yang, Hui[4]) The essential components of the set of equilibrium points for set-valued maps. (English summary) **2005h:91153**
Zame, William R. *see* **Ellickson, Bryan, 2005g:91137** *and* **Harris, Christopher J. et al., 2005g:91139**

Zenginobuz, E. Ünal *see* **Villanacci, Antonio, 2005m:91131**

Items with secondary classifications in 91B50

Abalo, K. Y. (*with* Kostreva, Michael M.) Some existence theorems of Nash and Berge equilibria. (English summary) **2005b:91016**

Aliprantis, Charalambos D. (*with* Burkinshaw, Owen) ★ Locally solid Riesz spaces with applications to economics. **2005b:46010**

Allen, Franklin (*with* Gale, Douglas) Financial intermediaries and markets. (English summary) **2005a:91085**

Anderson, Robert M. (*with* Raimondo, Roberto C.) Market clearing and derivative pricing. (English summary) **2005g:91091**

Ansari, Qamrul Hasan (*with* Chan, Wai Kit; Yang, Xiao Qi) The system of vector quasi-equilibrium problems with applications. (English summary) **2005d:49005**

— *see also* **Lin, Lai-Jiu, 2005d:47101**

Antinolfi, Gaetano (*with* Huybens, Elisabeth) Domestic financial market frictions, unrestricted international capital flows, and crises in small open economies. (English summary)

Aoyama, Koji A survey: an inverse of the Berge maximum theorem. (English summary)

Battinelli, Andrea *see* **Villanacci, Antonio et al., 2005a:91001**

Benevieri, Pierluigi *see* **Villanacci, Antonio et al., 2005a:91001**

Bernstein, Fernando (*with* Federgruen, Awi) A general equilibrium model for industries with price and service competition. (English summary) **2005h:90010**

Bich, Philippe (*with* Cornet, Bernard) Fixed-point-like theorems on subspaces. **2005f:55001**

Boratas Sensoy, Zehra *see* **Kas, Peter et al., 2005e:90154**

Bounkhel, Messaoud (*with* Jofré, A.) Subdifferential stability of the distance function and its applications to nonconvex economies and equilibrium. (English summary) **2005k:49081**

Burkinshaw, Owen *see* **Aliprantis, Charalambos D., 2005b:46010**

Carosi, Laura *see* **Villanacci, Antonio et al., 2005a:91001**

Cartwright, Edward The stability of conventions: random and lattice matching networks compared. (English summary)

(Cass, David) *see* **Citanna, Alessandro et al.**

Chadli, Ouayl (*with* Schaible, Siegfried; Yao, Jen Chih) Regularized equilibrium problems with application to noncoercive hemivariational inequalities. (English summary) **2005e:90153**

— *see also* **Chiang, Yungyen et al., 2005h:49017**

Chan, Wai Kit *see* **Ansari, Qamrul Hasan et al., 2005d:49005**

Chen, Hsin I *see* **Lin, Lai-Jiu, (2005d:00015)**

Chen, Tian Ping *see* **Liu, Ying Fan, 2005i:91076**

Chiang, Yungyen (*with* Chadli, Ouayl; Yao, Jen Chih) Generalized vector equilibrium problems with trifunctions. (English summary) **2005h:49017**

Chu, Chengbin *see* **Nessah, Rabia, 2005a:90184**

Citanna, Alessandro (*with* Donaldson, John B.; Polemarchakis, Herakles M.; Siconolfi, Paolo; Spear, Stephen E.) General equilibrium, incomplete markets and sunspots: a symposium in honor of David Cass.

de Clippel, Geoffroy (*with* Minelli, Enrico) Two remarks on the inner core. (English summary) **2005m:91018**

Cornet, Bernard *see* **Bich, Philippe, 2005f:55001**

Crespi, Giovanni P. (*with* Nguyễn Xuân Tấn) On vector quasi-optimization problems. (English summary) **2005k:90131**

D'Agata, Antonio Star-shapedness of Richter-Aumann integral on a measure space with atoms: theory and economic applications. (English summary) **2005i:91008**

Daniele, Patrizia Time-dependent spatial price equilibrium problem: existence and stability results for the quantity formulation model. (English summary) **2005b:49018**

Danilov, Vladimir Ivanovich[1] (*with* Koshevoĭ, G. A.; Lang, Christine) Gross substitution, discrete convexity, and submodularity. (English summary) **2005b:52016**

— (*with* Koshevoĭ, G. A.) Discrete convexity. (Russian. English and Russian summaries) **2005m:52001**

Denkowski, Zdzisław (*with* Migórski, Stanisław; Papageorgiou, Nikolaos S.) ★ An introduction to nonlinear analysis: theory. **2005a:47089**

— (*with* Migórski, Stanisław; Papageorgiou, Nikolaos S.) ★ An introduction to nonlinear analysis: applications. **2005b:47108**

Devanur, Nikhil R. (*with* Vazirani, Vijay V.) An improved approximation scheme for computing Arrow-Debreu prices for the linear case. (English summary) **2005e:68258**

Diamantoudi, Effrosyni (*with* Miyagawa, Eiichi; Xue, Licun) Random paths to stability in the roommate problem. (English summary) **2005b:91176**

Ding, Xie Ping KKM type theorems, minimax inequalities and saddle point theorems in generalized convex spaces. (Chinese. English and Chinese summaries) **2005f:52003**

— Nonempty intersection theorems and system of generalized vector equilibrium problems in product G-convex spaces. (Chinese. English and Chinese summaries) **2005f:49020**

— (*with* Yao, Jen Chih; Lin, Lai-Jiu) Solutions of system of generalized vector quasi-equilibrium problems in locally G-convex uniform spaces. (English summary) **2005f:49019**

— (*with* Park, Jong Yeoul) Generalized vector equilibrium problems in generalized convex spaces. (English summary) **2005b:90156**

— (*with* Park, Jong Yeoul; Jung, Il Hyo) Fixed point theorems on product topological spaces and applications. (English summary) **2005h:54044**

— Himmelberg type fixed point theorem in locally FC-spaces. (English and Chinese summaries)

— *see also* **Fang, Min**[1]

Donaldson, John B. *see* **Citanna, Alessandro et al.**

Driessen, Theo S. H. (*with* Meinhardt, Holger I.) Convexity of oligopoly games without transferable technologies. (English summary) **2005m:91019**

Fakhar, M. (*with* Zafarani, J.) Generalized equilibrium problems for quasimonotone and pseudomonotone bifunctions. (English summary) **2005k:49024**

Fang, Min[1] (*with* Ding, Xie Ping) The system of generalized mixed vector equilibrium problems in a product G-convex space. (Chinese. English and Chinese summaries)

Federgruen, Awi *see* **Bernstein, Fernando, 2005h:90010**

Figuières, Charles (*with* Jean-Marie, Alain; Quérou, Nicolas; Tidball, Mabel) ★ Theory of conjectural variations. **2005e:91002**

Florig, Michael Equilibrium correspondence of linear exchange economies. (English summary) **2005f:91093**

Gale, Douglas *see* **Allen, Franklin, 2005a:91085**

(Glycopantis, Dionysius) *see* **Differential information economies, 2005i:91004**

Gomberg, Andrei M. (*with* Marhuenda, Francisco; Ortuño-Ortín, Ignacio) A model of endogenous political party platforms. (English summary) **2005k:91248**

Gourdel, Pascal (*with* Ngoc, Liem Hoang; Le Van, Cuong; Mazamba, Tédié) Equilibrium and competitive equilibrium in a discrete-time Lucas model. (English summary) **2005e:91117**

Hellwig, Martin F. The relation between real wage rates and employment: an intertemporal general-equilibrium analysis. (English summary)

Herings, P. Jean-Jacques (*with* Polemarchakis, Herakles M.) Pareto improving price regulation when the asset market is incomplete. (English summary) **2005g:91082**

Huybens, Elisabeth *see* **Antinolfi, Gaetano**

Ichiishi, Tatsuro (*with* Yamazaki, Akira) *Interim* core concepts for a Bayesian pure exchange economy. (English summary) **2005b:91030**

Idone, Giovanna (*with* Maugeri, Antonino; Vitanza, Carmela) Topics on variational analysis and applications to equilibrium problems. (English summary) **2005d:49032**

Jackson, Matthew O. (*with* Swinkels, Jeroen M.) Existence of equilibrium in single and double private value auctions. (English summary) **2005h:91083**

— (*with* Wilkie, Simon) Endogenous games and mechanisms: side payments among players. (English summary) **2005k:91007**

Jamet, Stéphanie Irreversibility, uncertainty and growth. (English summary) **2005e:91119**

Jean-Marie, Alain *see* **Figuières, Charles et al., 2005e:91002**

Jofré, A. *see* **Bounkhel, Messaoud, 2005k:49081**

John, Reinhard Uses of generalized convexity and generalized monotonicity in economics. (English summary) (*see* **2005i:90003**)

Jung, Il Hyo *see* **Ding, Xie Ping et al., 2005h:54044**

Kas, Peter (*with* Kassay, Gábor; Boratas Sensoy, Zehra) On generalized equilibrium points. (English summary) **2005e:90154**

Kassay, Gábor *see* **Kas, Peter et al., 2005e:90154**

Kindler, Jürgen A simple proof of Sion's minimax theorem. **2005k:91004**

Konnov, Igor V. Generalized monotone equilibrium problems and variational inequalities. (English summary) (*see* **2005i:90003**)

— Convex optimization problems with arbitrary right-hand side perturbations. (English summary) **2005m:90126**

Koshevoĭ, G. A. *see* **Danilov, Vladimir Ivanovich**[1] **et al., 2005b:52016** *and* **2005m:52001**

Kostreva, Michael M. *see* **Abalo, K. Y., 2005b:91016**

Kristály, Alexandru Hemivariational inequalities systems and applications. (English summary) **2005g:35129**

Kulpa, Władysław (*with* Szymański, Andrzej) Infimum principle. (English summary) **2005h:49016**

(Kusuoka, Shigeo) *see* **Advances in mathematical economics. Vol. 6, 2005b:91008**

Kuusela, Mikko Large deviations of zeroes and fixed points of random maps with applications to equilibrium economics. **2005f:60068**

Lambertini, Luca (*with* Orsini, Raimondello) The existence of equilibrium in a differentiated duopoly with network externalities. (English summary) **2005i:91047**

Lan, K. Q. An intersection theorem for multivalued maps and applications. (English summary) **2005h:90160**

Lang, Christine *see* **Danilov, Vladimir Ivanovich**[1] **et al., 2005b:52016**

Lee, Donghoon[1] An estimable dynamic general equilibrium model of work, schooling, and occupational choice. (English summary)

Le Van, Cuong *see* **Gourdel, Pascal et al., 2005e:91117**

Lin, Lai-Jiu (*with* Liou, Yi-Han) Equilibrium theorems of multimaps and fuzzy mappings. (English summary) **2005f:47120**

— (*with* Chen, Hsin I) Coincidence theorems for families of multimaps and their applications to equilibrium problems [MR1981267 (2004e:47113)]. (*see* **2005d:00015**)

— (*with* Ansari, Qamrul Hasan) Collective fixed points and maximal elements with applications to abstract economies. (English summary) **2005d:47101**

— (*with* Wan, W. P.) KKM type theorems and coincidence theorems with applications to the existence of equilibria. (English summary) **2005m:47112**

— *see also* **Ding, Xie Ping et al., 2005f:49019**

Lin, Zhi (*with* Yu, Jian[1]) The existence of solutions for the system of generalized vector quasi-equilibrium problems. (English summary) **2005k:49028**

Liou, Yi-Han *see* **Lin, Lai-Jiu, 2005f:47120**

Liu, Ying Fan (*with* Chen, Tian Ping) A solvability theorem on a class of conditional input-output equation. (Chinese. English and Chinese summaries) **2005i:91076**

Luo, Qun Ky Fan's section theorem and its applications in topological ordered spaces. (English summary) **2005i:54052**

Marhuenda, Francisco *see* **Gomberg, Andrei M. et al., 2005k:91248**

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Maugeri, Antonino *see* **Idone, Giovanna et al., 2005d:49032**

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McLennan, Andrew The expected number of Nash equilibria of a normal form game. (English summary) **2005h:91013**

Meertens, M. A. On balancedness of superadditive games and price equilibria in exchange economies. (English summary) **2005h:91026**

Meinhardt, Holger I. *see* **Driessen, Theo S. H., 2005m:91019**

Migórski, Stanisław *see* **Denkowski, Zdzisław et al., 2005a:47089** *and* **2005b:47108**

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Miyagawa, Eiichi *see* **Diamantoudi, Effrosyni et al., 2005b:91176**

Moţ, Ghiocel (*with* Petruşel, Adrian) Fixed points and game theory. (English summary) **2005d:54043**

— *see also* **Petruşel, Adrian, 2005e:91004**

Nagata, Ryo ★ Theory of regular economies. **2005e:91003**

Nessah, Rabia (*with* Chu, Chengbin) Quasi-variational equation. (English summary) **2005a:90184**

Ngoc, Liem Hoang *see* **Gourdel, Pascal et al., 2005e:91117**

Nguyễn Xuân Tấn *see* **Crespi, Giovanni P., 2005k:90131**
Nishizawa, Shogo (*with* Tanaka, Tamaki) On inherited properties for set-valued maps and existence theorems for generalized vector equilibrium problems. (English summary) **2005f:49052**
Noor, Muhammad Aslam Auxiliary principle technique for equilibrium problems. (English summary) **2005e:49018**
Orsini, Raimondello *see* **Lambertini, Luca, 2005i:91047**
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Petruşel, Adrian (*with* Moţ, Ghiocel) ★ Multivalued analysis and mathematical economics. **2005e:91004**
— *see also* **Moţ, Ghiocel, 2005d:54043**
Phan Thiên Thạch Equilibrium prices and quasiconvex duality. (English summary) **2005g:90107**
Piao, Yong Jie Fan-Browder type fixed point and equilibrium point theorems on generalized convex product spaces. (English and Chinese summaries)
Polemarchakis, Herakles M. *see* **Herings, P. Jean-Jacques, 2005g:91082** *and* **Citanna, Alessandro et al.**
Pripoae, Cristina Liliana Non-holonomic economical systems. (English summary) **2005m:58031**
Quérou, Nicolas *see* **Figuières, Charles et al., 2005e:91002**
Raciti, Fabio (*with* Scrimali, Laura) Time-dependent variational inequalities and applications to equilibrium problems. (English summary) **2005b:49029**
— Bicriterion weight varying spatial price networks. (English summary) **2005e:91064**
Raimondo, Roberto C. *see* **Anderson, Robert M., 2005g:91091**
Ramachandran, D. (*with* Rüschendorf, Ludger) Assignment models for constrained marginals and restricted markets. (English summary) **2005b:90153**
Reny, Philip J. (*with* Zamir, Shmuel) On the existence of pure strategy monotone equilibria in asymmetric first-price auctions. (English summary) **2005e:91066**
Rüschendorf, Ludger *see* **Ramachandran, D., 2005b:90153**
Rustichini, Aldo (*with* Siconolfi, Paolo) Growth in economies with non convexities: sunspots and lottery equilibria. (English summary) **2005e:91122**
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Scrimali, Laura *see* **Raciti, Fabio, 2005b:49029**
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Stinchcombe, Maxwell B. Nash equilibrium and generalized integration for infinite normal form games. (English summary) **2005i:91013**
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Szymański, Andrzej *see* **Kulpa, Władysław, 2005h:49016**
Talman, A. J. J. (*with* Yamamoto, Yoshitsugu) Continuum of zero points of a mapping on a compact, convex set. (English summary) **2005h:54050**
Tamura, Akihisa Applications of discrete convex analysis to mathematical economics. (English summary) **2005d:91030**
Tanaka, Tamaki *see* **Nishizawa, Shogo, 2005f:49052**
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Tuinstra, Jan A price adjustment process in a model of monopolistic competition. (English summary) **2005f:91039**
Urai, Ken (*with* Yoshimachi, Akihiko) Fixed point theorems in Hausdorff topological vector spaces and economic equilibrium theory. (English summary) **2005d:47104**
Vasil'ev, Valeriĭ A. Contractual M-core and equilibrium allocations. (English and Russian summaries) **2005k:91192**
Vazirani, Vijay V. *see* **Devanur, Nikhil R., 2005e:68258**
Villanacci, Antonio (*with* Carosi, Laura; Benevieri, Pierluigi; Battinelli, Andrea) ★ Differential topology and general equilibrium with complete and incomplete markets. **2005a:91001**
Vitanza, Carmela *see* **Idone, Giovanna et al., 2005d:49032**
Wan, W. P. *see* **Lin, Lai-Jiu, 2005m:47112**
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Zafarani, J. *see* **Fakhar, M., 2005k:49024**
Zamir, Shmuel *see* **Reny, Philip J., 2005e:91066**
Zaslavski, Alexander J. Turnpike theorem for a class of discrete time optimal control problems. (English summary) **2005d:91082**
Zhang, Ji Hui[1] Some minimax inequalities for mappings with noncompact domain. (English summary) **2005a:47120**

Items listed otherwise than by author

Advances in mathematical economics. Vol. 6 ★ Advances in mathematical economics. Vol. 6. **2005b:91008**
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Cass, David *see* **Citanna, Alessandro et al.**
Differential information economies ★ Differential information economies. **2005i:91004**

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Dierker, Egbert (*with* Dierker, Hildegard; Grodal, Birgit) Are incomplete markets able to achieve minimal efficiency? (English summary) **2005i:91078**
Dierker, Hildegard *see* **Dierker, Egbert et al., 2005i:91078**
Evans, George William, III (*with* McGough, Bruce) Stable sunspot solutions in models with predetermined variables. (English summary) **2005k:91205**
Grodal, Birgit *see* **Dierker, Egbert et al., 2005i:91078**
Hens, Thorsten (*with* Pilgrim, Beate) Sunspot equilibria and the transfer paradox. (English summary) **2005c:91091**
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Voorneveld, Mark Preparation. (English summary) **2005c:91092**

Items with secondary classifications in 91B52

Breton, Michèle (*with* Turki, Abdalla; Zaccour, Georges) Efficiency of Bertrand and Cournot under precommitment. **2005m:91030**
(Cass, David) *see* **Citanna, Alessandro et al.**
Citanna, Alessandro (*with* Donaldson, John B.; Polemarchakis, Herakles M.; Siconolfi, Paolo; Spear, Stephen E.) General equilibrium, incomplete markets and sunspots: a symposium in honor of David Cass.
Devereux, Michael B. (*with* Shi, Kang; Xu, Juanyi) Friedman redux: restricting monetary policy rules to support flexible exchange rates. (English summary) **2005k:91230**
Ding, Xie Ping *see* **Li, Yan[5]**
Donaldson, John B. *see* **Citanna, Alessandro et al.**
Ely, Jeffrey C. (*with* Hörner, Johannes; Olszewski, Wojciech) Belief-free equilibria in repeated games. (English summary) **2005k:91054**
Guesnerie, Roger ★ Assessing rational expectations. 2. **2005m:91002**
Hellwig, Martin F. Nonlinear incentive provision in Walrasian markets: a Cournot convergence approach. (English summary) **2005h:91132**
Herings, P. Jean-Jacques *see* **Predtetchinski, Arkadi et al., 2005e:91131**
Hillairet, Caroline Existence of an equilibrium with discontinuous prices, asymmetric information, and nontrivial initial σ-fields. (English summary) **2005h:91149**
Hörner, Johannes *see* **Ely, Jeffrey C. et al., 2005k:91054**
İmrohoroğlu, Ayse (*with* Merlo, Antonio; Rupert, Peter) What accounts for the decline in crime? (English summary) **2005d:91078**
Iskakov, M. B. Equilibrium in safe strategies. (Russian. Russian summary) **2005m:91126**
Kamat, Samir *see* **Page, Frank H., Jr. et al., 2005i:91099**
Kirman, Alan P. (*with* Tuinstra, Jan) Introduction [Special Issue: Bounded rationality, heterogeneity and market dynamics].
Koessler, Frédéric Strategic knowledge sharing in Bayesian games. (English summary) **2005b:91019**
Konovalov, Alexander The core of an economy with satiation. (English summary) **2005k:91202**
Li, Yan[5] (*with* Ding, Xie Ping) Applications of generalized R-KKM theorems in topological spaces. (Chinese. English and Chinese summaries)
Lin, Zhi Essential components of the set of weakly Pareto-Nash equilibrium points for multiobjective generalized games in two different topological spaces. (English summary) **2005k:91017**
Ma, Jinpeng (*with* Nie, Fusheng) Walrasian equilibrium in an exchange economy with indivisibilities. (English summary) **2005f:91020**
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Olszewski, Wojciech *see* **Ely, Jeffrey C. et al., 2005k:91054**
Page, Frank H., Jr. (*with* Wooders, Myrna H.; Kamat, Samir) Networks and farsighted stability. (English summary) **2005i:91099**
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Pietra, Tito Sunspots, indeterminacy and Pareto inefficiency in economies with incomplete markets. (English summary) **2005c:91088**
Polemarchakis, Herakles M. *see* **Citanna, Alessandro et al.**
Predtetchinski, Arkadi (*with* Herings, P. Jean-Jacques; Peters, Hans) The strong sequential core in a dynamic exchange economy. (English summary) **2005e:91131**
Reny, Philip J. (*with* Zamir, Shmuel) On the existence of pure strategy monotone equilibria in asymmetric first-price auctions. (English summary) **2005e:91066**
Rupert, Peter *see* **İmrohoroğlu, Ayse et al., 2005d:91078**
Sachkov, S. N. *see* **Zhukovskiĭ, V. I. et al., 2005d:91003**
Sertel, Murat R. (*with* Yildiz, Muhamet) Core is manipulable via segmentation. (English summary) **2005e:91022**
Shi, Kang *see* **Devereux, Michael B. et al., 2005k:91230**
Siconolfi, Paolo *see* **Citanna, Alessandro et al.**
Smirnova, L. V. *see* **Zhukovskiĭ, V. I. et al., 2005d:91003**
Spear, Stephen E. *see* **Citanna, Alessandro et al.**
Tuinstra, Jan *see* **Kirman, Alan P.**
Turki, Abdalla *see* **Breton, Michèle et al., 2005m:91030**
Wooders, Myrna H. *see* **Page, Frank H., Jr. et al., 2005i:91099**
Xiao, Wei[1] Can indeterminacy resolve the cross-country correlation puzzle? (English summary) **2005e:91123**
Xu, Juanyi *see* **Devereux, Michael B. et al., 2005k:91230**
Yildiz, Muhamet *see* **Sertel, Murat R., 2005e:91022**
Zaccour, Georges *see* **Breton, Michèle et al., 2005m:91030**
Zamir, Shmuel *see* **Reny, Philip J., 2005e:91066**
Zhukovskiĭ, V. I. (*with* Molostvov, V. S.; Sachkov, S. N.; Smirnova, L. V.) Imputations in cooperative games under uncertainty. **2005d:91003**

Items listed otherwise than by author

Biography:
Cass, David *see* **Citanna, Alessandro et al.**

91B54 Special types of economies

Allen, Beth On the definition of differentiated products in the real world. (English summary) **2005g:91144**

Deng, Xiao Tie (*with* Papadimitriou, Christos H.; Safra, Shmuel) On the complexity of equilibria. (English summary) (*see* **2005i:68004**)
Florig, Michael Equilibrium correspondence of linear exchange economies. (English summary) **2005f:91093**
Maus, Stefan Exchange economies with asymmetric information: competitive equilibrium and core. (English summary) **2005k:91206**
Papadimitriou, Christos H. *see* **Deng, Xiao Tie et al.**, (**2005i:68004**)
Safra, Shmuel *see* **Deng, Xiao Tie et al.**, (**2005i:68004**)
Schummer, James Almost-dominant strategy implementation: exchange economies. (English summary) **2005d:91076**

Items with secondary classifications in 91B54

Abramov, A. P. ★ Математические модели экономики дефицита. (Russian. Russian summary) [Mathematical models of deficit economics] **2005i:91003**
Boyarchenko, Svetlana Arrow's equivalency theorem in a model with neoclassical firms. (English summary) **2005d:91074**
Busch, Lutz-Alexander (*with* Govindan, Srihari) Robust nonexistence of equilibrium with incomplete markets. (English summary) **2005c:91081**
Chakraborty, Archishman (*with* Citanna, Alessandro) Occupational choice, incentives and wealth distribution. (English summary) **2005m:91165**
Citanna, Alessandro *see* **Chakraborty, Archishman**, **2005m:91165**
Futagami, Koichi (*with* Ishiguro, Shingo) Signal-extracting education in an overlapping generations model. (English summary) **2005b:91165**
Govindan, Srihari *see* **Busch, Lutz-Alexander**, **2005c:91081**
Herings, P. Jean-Jacques *see* **Predtetchinski, Arkadi et al.**, **2005e:91131**
Ishiguro, Shingo *see* **Futagami, Koichi**, **2005b:91165**
McLean, Richard P. (*with* Postlewaite, Andrew) Core convergence with asymmetric information. (English summary) **2005i:91017**
Peters, Hans *see* **Predtetchinski, Arkadi et al.**, **2005e:91131**
Postlewaite, Andrew *see* **McLean, Richard P.**, **2005i:91017**
Predtetchinski, Arkadi (*with* Herings, P. Jean-Jacques; Peters, Hans) The strong sequential core in a dynamic exchange economy. (English summary) **2005e:91131**
Reichlin, Pietro (*with* Siconolfi, Paolo) Optimal debt contracts and moral hazard along the business cycle. (English summary) **2005a:91091**
Siconolfi, Paolo *see* **Reichlin, Pietro**, **2005a:91091**
Tian, Guoqiang Implementation in production economies with increasing returns. (English summary) **2005k:91021**
Trockel, Walter Core-equivalence for the Nash bargaining solution. (English summary) **2005g:91039**
Wako, Jun Coalition-proof Nash allocation in a barter game with multiple indivisible goods. (English summary) **2005j:91034**

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Allen, Franklin (*with* Gale, Douglas) Financial intermediaries and markets. (English summary) **2005a:91085**
Anderson, James E. (*with* Marcouiller, Douglas) Anarchy and autarky: endogenous predation as a barrier to trade. (English summary) **2005h:91154**
Antinolfi, Gaetano (*with* Huybens, Elisabeth) Domestic financial market frictions, unrestricted international capital flows, and crises in small open economies. (English summary)
(Chaudhuri, Sarbajit) *see* **Errata: "Child labour and trade liberalization"**
Choi, Chong Ju *see* **Dassiou, Xeni et al.**
Dassiou, Xeni (*with* Choi, Chong Ju; Maldoom, Dan) Trade and linked exchange; price discrimination through transaction bundling. (English summary)
De Fiore, Fiorella (*with* Liu, Zheng[3]) Does trade openness matter for aggregate instability? (English summary)
Gale, Douglas *see* **Allen, Franklin**, **2005a:91085**
(Gupta, Manash Ranjan) *see* **Errata: "Child labour and trade liberalization"**
Haque, M. Emranul (*with* Mukherjee, Arijit) On the revenue implications of trade liberalization under imperfect competition. (English summary) **2005m:91132**
Huybens, Elisabeth *see* **Antinolfi, Gaetano**
Iordanov, Iordan V. *see* **Vassilev, Andrei A. et al.**
Liu, Zheng[3] *see* **De Fiore, Fiorella**
Maldoom, Dan *see* **Dassiou, Xeni et al.**
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Richmond, Peter *see* **Sabatelli, Lorenzo**, **2005k:91207**
Sabatelli, Lorenzo (*with* Richmond, Peter) A consensus-based dynamics for market volumes. (English summary) **2005k:91207**
Stoyanov, Stoyan V. *see* **Vassilev, Andrei A. et al.**
Vassilev, Andrei A. (*with* Iordanov, Iordan V.; Stoyanov, Stoyan V.) A strategic model of trade between two regions with continuous-time price dynamics. (English summary)
Wang, Yu-ter Countervailing duties, foreign export subsidies and import tariffs. (English summary) **2005a:91086**
Willmann, Gerald Pareto gains from trade: a dynamic counterexample. (English summary) **2005a:91087**
Wright, Mark L. J. On the gains from international financial integration. (English summary) **2005k:91208**
Yin, Gang George *see* **Zhao, Lan**, **2005k:91209**
Zhao, Lan (*with* Yin, Gang George) A global market oil stockpiling model. (English summary) **2005k:91209**

Items listed otherwise than by author

Errata:
"Child labour and trade liberalization" Errata: "Child labour and trade liberalization" [Jpn. Econ. Rev. **55** (2004), no. 2, 201–211; MR2064025] by S. Chaudhuri and M. R. Gupta.

Items with secondary classifications in 91B60

Berentsen, Aleksander (*with* Camera, Gabriele; Waller, Christopher) The distribution of money balances and the nonneutrality of money. (English summary) **2005m:91147**
Brecher, Richard A. (*with* Chen, Zhiqi; Choudhri, Ehsan U.) Dynamic stability in a two-country model of optimal growth and international trade. (English summary) **2005h:91157**
Camera, Gabriele *see* **Berentsen, Aleksander et al.**, **2005m:91147**
Chen, Zhiqi *see* **Brecher, Richard A. et al.**, **2005h:91157**
Choudhri, Ehsan U. *see* **Brecher, Richard A. et al.**, **2005h:91157**
Iordanov, Iordan V. (*with* Stoyanov, Stoyan V.; Vassilev, Andrei A.) Price dynamics in a two region model with strategic interaction. (English and Bulgarian summaries) **2005g:91151**
Kokot, Stefan ★ The econometrics of sequential trade models. **2005a:62010**
Lux, Thomas (*with* Schornstein, Sascha) Genetic learning as an explanation of stylized facts of foreign exchange markets. (English summary)
Nowak, Matthias P. (*with* Schultz, Rüdiger; Westphalen, Markus) A stochastic integer programming model for incorporating day-ahead trading of electricity into hydro-thermal unit commitment. (English summary) **2005k:90092**
Schornstein, Sascha *see* **Lux, Thomas**
Schultz, Rüdiger *see* **Nowak, Matthias P. et al.**, **2005k:90092**
Stoyanov, Stoyan V. *see* **Iordanov, Iordan V. et al.**, **2005g:91151**
Tatur, Tymon On the trade off between deficit and inefficiency and the double auction with a fixed transaction fee. (English summary) **2005h:91091**
Vassilev, Andrei A. *see* **Iordanov, Iordan V. et al.**, **2005g:91151**
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Westphalen, Markus *see* **Nowak, Matthias P. et al.**, **2005k:90092**
(Williamson, Stephen D.) *see* **Berentsen, Aleksander et al.**, **2005m:91147**

Items listed otherwise than by author

Lecture Notes in Economics and Mathematical Systems *see* **Kokot, Stefan**, **2005a:62010**

91B62 Dynamic economic models, growth models

Álvarez-Lois, Pedro P. Capacity constraints, idiosyncratic demand uncertainty and the dynamics of inflation. (English summary) **2005i:91079**
Angeletos, George-Marios (*with* Calvet, Laurent-Emmanuel) Incomplete-market dynamics in a neoclassical production economy. (English summary) **2005m:91133**
Antoci, Angelo (*with* Brugnano, Luigi; Galeotti, Marcello) Sustainability, indeterminacy and oscillations in a growth model with environmental assets. (English summary) **2005b:91159**
Araujo, Ricardo Azevedo Optimal human investment allocation. (English summary)
Ashimov, A. A. (*with* Ashimov, As. A.; Borovskiĭ, Yu. V.; Volobueva, O. P.) On the choice of effective laws for the parametric regulation of market economy mechanisms. (Russian. Russian summary)
Ashimov, As. A. *see* **Ashimov, A. A. et al.**
Aubin, Jean-Pierre Evolution of complex economic systems and uncertain information. **2005b:91160**
Azariadis, Costas (*with* Bullard, James; Ohanian, Lee) Trend-reverting fluctuations in the life-cycle model. (English summary) **2005g:91145**
Banerji, Sanjay (*with* Bhattacharya, Joydeep; Long, Ngo Van) Can financial intermediation induce endogenous fluctuations. (English summary) **2005d:91077**
Beaubrun-Diant, Kevin E. (*with* Tripier, Fabien) Asset returns and business cycles in models with investment adjustment costs. (English summary)
Bellettini, Giorgio (*with* Ottaviano, Gianmarco I. P.) Special interests and technological change. (English summary)
Bénassy, Jean-Pascal Optimal indexation and the cyclical behavior of prices. (English summary) **2005b:91161**
Bhattacharya, Joydeep *see* **Banerji, Sanjay et al.**, **2005d:91077**
Bhattacharya, Rabi (*with* Majumdar, Mukul) Dynamical systems subject to random shocks: an introduction. **2005f:91094**
Bian, Yong (*with* Meng, Qinglai) Preferences, endogenous discount rate, and indeterminacy in a small open economy model. (English summary) **2005c:91093**
Blankenau, William Public schooling, college subsidies and growth. (English summary) **2005h:91155**
Bliss, Christopher Koopmans recursive preferences and income convergence. (English summary) **2005a:91088**
Blot, Joël (*with* Crettez, Bertrand) On the smoothness of optimal paths. (English summary) **2005f:91095**
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Bonneuil, Noël (*with* Boarini, Romina) Preserving transfer benefit for present and future generations. (English summary) **2005f:91096**
Borovskiĭ, Yu. V. *see* **Ashimov, A. A. et al.**
Boucekkine, Raouf (*with* Licandro, Omar; Puch, Luis A.; del Rio, Fernando) Vintage capital and the dynamics of the AK model. (English summary) **2005h:91156**
Branch, William A. (*with* McGough, Bruce) Consistent expectations and misspecification in stochastic non-linear economies. (English summary) **2005k:91210**
Brandt-Pollmann, Ulrich *see* **Winkler, Ralph et al.**, (**2005d:90005**)
Brecher, Richard A. (*with* Chen, Zhiqi; Choudhri, Ehsan U.) Dynamic stability in a two-country model of optimal growth and international trade. (English summary) **2005h:91157**
Brugnano, Luigi *see* **Antoci, Angelo et al.**, **2005b:91159**
Buch, Claudia M. (*with* Doepke, Joerg; Pierdzioch, Christian) Business cycle volatility in Germany. (English summary)
Bullard, James *see* **Azariadis, Costas et al.**, **2005g:91145**
Cagri Saglam, H. *see* **Le Van, Cuong**, **2005d:91079**
Cai, Dong Han (*with* Rao, Xiao Xin) Endogenous labor transfer and business cycles in an economic growth model. (Chinese. English and Chinese summaries)
Cai, Jianping Hopf bifurcation in the IS-LM business cycle model with time delay. (English summary) **2005i:91080**

Calvet, Laurent-Emmanuel *see* **Angeletos, George-Marios, 2005m:91133**
Cao, Bing Yuan Research for fuzzy Duoma debt model and its fuzzy solution. (English summary)
Cellini, Roberto (*with* Lambertini, Luca) Private and social incentives towards investment in product differentiation. (English summary) **2005i:91081**
Cette, Gilbert (*with* Mairesse, Jacques; Kocoglu, Yusuf) ICT diffusion and potential output growth. (English summary)
Chateauneuf, Alain (*with* Rébillé, Yann) Some characterizations of non-additive multi-period models. (English summary) **2005f:91097**
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Chen, Xiao Lan Multi-sector dynamic macroeconomic model and research on economy balanced growth. (Chinese. English and Chinese summaries)
Chen, Zhiqi *see* **Brecher, Richard A. et al., 2005h:91157**
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— The effects of government spending on work effort. (English summary)
Dalgaard, Carl-Johan (*with* Hansen, Jes Winther) Capital utilization and the foundations of club convergence. (English summary) **2005m:91134**
Dawid, Herbert Long horizon versus short horizon planning in dynamic optimization problems with incomplete information. (English summary) **2005k:91211**
Day, Richard H. Adaptive economizing and financial feedback in pure competition. (English summary)
De Cesare, Luigi (*with* Sportelli, Mario) A dynamic IS-LM model with delayed taxation revenues. (English summary) **2005m:91135**
Doepke, Joerg *see* **Buch, Claudia M. et al.**
Doi, Junko *see* **Futagami, Koichi, 2005h:91158**
Dos Santos Ferreira, Rodolphe (*with* Lloyd-Braga, Teresa) Non-linear endogenous fluctuations with free entry and variable markups. (English summary) **2005m:91136**
Drugeon, Jean-Pierre On consumptions, inputs and outputs substitutabilities and the evanescence of optimal cycles. (English summary) **2005c:91094**
Eckwert, Bernhard (*with* Zilcha, Itzhak) Economic implications of better information in a dynamic framework. (English summary) **2005c:91095**
Edwards, Ronald A. The structure of authority, federalism, commitment and economic growth. (English summary) **2005j:91057**
Espino, Emilio On Ramsey's conjecture: efficient allocations in the neoclassical growth model with private information. (English summary) **2005k:91212**
Feichtinger, Gustav (*with* Hartl, Richard F.; Kort, Peter M.; Vel′ov, Vladimir M.) Dynamic investment behavior taking into account ageing of the capital goods. (English summary) **2005k:91213**
— *see also* **Hartl, Richard F. et al., 2005g:91146** *and* **Gavrila, C. et al., 2005k:91215**
Ferrara, Massimiliano (*with* Niglia, Andrea) Market competition via geometric dynamics. (English summary) (*see* **2005b:00022**)
Fiaschi, Davide (*with* Pacini, Pier Mario) Growth and coalition formation. (English summary) **2005k:91214**
Fisher, Walter H. Status preference, wealth and dynamics in the open economy. (English summary) **2005b:91163**
Francis, Peter J. Optimal tax-subsidy combinations for the flu season. (English summary) **2005b:91164**
Futagami, Koichi (*with* Ishiguro, Shingo) Signal-extracting education in an overlapping generations model. (English summary) **2005b:91165**
— (*with* Doi, Junko) Commodity taxation and economic growth. (English summary) **2005h:91158**
Galeotti, Marcello *see* **Antoci, Angelo et al., 2005b:91159**
Gallegati, Mauro (*with* Giulioni, Gianfranco; Kichiji, Nozomi) Complex dynamics and financial fragility in an agent based model. (English summary) (*see* **2005g:65008**)
Galor, Oded (*with* Moav, Omer) From physical to human capital accumulation: inequality and the process of development. (English summary) **2005e:91116**
Gavrila, C. (*with* Feichtinger, Gustav; Tragler, Gernot; Hartl, Richard F.; Kort, Peter M.) History-dependence in a rational addiction model. (English summary) **2005k:91215**
Ghate, Chetan Endogenous distribution and equilibrium growth: a note. (English summary)
Ghiglino, Christian (*with* Tvede, Mich) Dynamics in OG economies. (English summary) **2005c:91096**
— (*with* Olszak-Duquenne, Marielle) On the impact of heterogeneity on indeterminacy. (English summary) **2005h:91159**
Gigliotti, Gary (*with* Sopher, Barry) Analysis of intertemporal choice: a new framework and experimental results. (English summary)
Giulioni, Gianfranco *see* **Gallegati, Mauro et al., (2005g:65008)**
Gómez Suárez, M. A. Externalities and fiscal policy in a Lucas-type model. (English summary)
Gong, Liutang (*with* Peng, Xianze) The existence theorem of optimal growth model. (English summary)
Gorgodze, N. *see* **Kharatishvili, G. et al.**
Gourdel, Pascal (*with* Ngoc, Liem Hoang; Le Van, Cuong; Mazamba, Tédié) Equilibrium and competitive equilibrium in a discrete-time Lucas model. (English summary) **2005e:91117**
Greiner, Alfred Fiscal policy in an endogenous growth model with public capital and pollution. (English summary) **2005k:91216**
Grigorkīv, V. S. (*with* Yakutova, O. Yu.; Timku, S. M.) Simulation of economic dynamics under ecological balance conditions. (Russian. English and Ukrainian summaries) **2005m:91137**
Grosset, Luca (*with* Viscolani, Bruno) Two symmetric optimal control problems in economics. (English summary) **2005m:91138**
— (*with* Viscolani, Bruno) Minimum time problems in economics. (English summary) **2005k:91217**
Grüne, Lars (*with* Semmler, Willi; Sieveking, Malte) Creditworthiness and thresholds in a credit market model with multiple equilibria. (English summary) **2005i:91082**
Guo, Jang-Ting (*with* Harrison, Sharon G.) Balanced-budget rules and macroeconomic (in)stability. (English summary)
Hansen, Jes Winther *see* **Dalgaard, Carl-Johan, 2005m:91134**
Harrington, Joseph E., Jr. Optimal cartel pricing in the presence of an antitrust authority. (English summary) **2005h:91160**
Harrison, Sharon G. *see* **Guo, Jang-Ting**
Hartl, Richard F. (*with* Kort, Peter M.; Feichtinger, Gustav; Wirl, Franz) Multiple equilibria and thresholds due to relative investment costs. (English summary) **2005g:91146**
— (*with* Kort, Peter M.) Optimal investments with convex-concave revenue: a focus-node distinction. (English summary) **2005c:91097**
— *see also* **Feichtinger, Gustav et al., 2005k:91213** *and* **Gavrila, C. et al., 2005k:91215**
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Head, Allen (*with* Kumar, Alok) Price dispersion, inflation, and welfare. (English summary) **2005m:91139**
Hellwig, Klaus Sustainability revisited. (English summary) **2005m:91140**
Hernandez-Verme, Paula L. Inflation, growth and exchange rate regimes in small open economies. (English summary) **2005e:91118**
Holod, Dmytro (*with* Reed, Robert R., III) Regional spillovers, economic growth, and the effects of economic integration. (English summary)
Hu, Rong (*with* Hu, Shi Geng) Military spending and stochastic growth with government bond. (English and Chinese summaries)
Hu, Shi Geng *see* **Wang, Hai Jun² et al., 2005c:91099**; **Lü, Yong et al., 2005h:91161**; **Zhou, Shao-bo et al., 2005m:91145**; **Zuo, Yong Sheng** *and* **Hu, Rong**
Imai, Susumu (*with* Krishna, Kala) Employment, deterrence, and crime in a dynamic model. (English summary)
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Khan, Hashmat Price-setting behaviour, competition, and markup shocks in the new Keynesian model. (English summary) **2005k:91218**
Kharatishvili, G. (*with* Tadumadze, T.; Gorgodze, N.) Dynamic mathematical model of output the production and neutral optimal problem.
Kichiji, Nozomi *see* **Gallegati, Mauro et al., (2005g:65008)**
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Lee, Tan Determinants of the foreign equity share of international joint ventures. (English summary) **2005b:91166**
Le Van, Cuong (*with* Cagri Saglam, H.) Optimal growth models and the Lagrange multiplier. (English summary) **2005d:91079**
— (*with* Vailakis, Yiannis) Recursive utility and optimal growth with bounded or unbounded returns. (English summary) **2005m:91141**
— *see also* **Gourdel, Pascal et al., 2005e:91117**
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Liao, Xiaofeng (*with* Li, Chuandong; Zhou, Shangbo) Hopf bifurcation and chaos in macroeconomic models with policy lag. (English summary) **2005k:91220**
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Lü, Yong (*with* Hu, Shi Geng; Zhao, Jian Bin) Stochastic economic growth of a two-country model. (Chinese. English and Chinese summaries) **2005h:91161**
Mairesse, Jacques *see* **Cette, Gilbert et al.**
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Manelli, Alejandro M. (*with* Vincent, Daniel R.) Duality in procurement design. (English summary) **2005b:91167**
Martimort, David (*with* Verdier, Thierry) The agency cost of internal collusion and Schumpeterian growth. (English summary) **2005e:91121**
Mateos-Planas, Xavier Technology adoption with finite horizons. (English summary) **2005d:91080**
Matveenko, V. D. A theory of economic growth and the dynamics of the Russian economy. (Russian. English and Russian summaries) **2005h:91162**
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Men′shikov, S. M. The topicality of the economic model of L. V. Kantorovich. (Russian. English and Russian summaries)
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Mitra, Tapan (*with* Nishimura, Kazuo) Intertemporal complementarity and optimality: a

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Naval, Elvira Exponential inflationary economic growth. (English summary)

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— (*with* Stachurski, John) Discrete time models in economic theory. (English summary) **2005b:91168**

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— (*with* Yagi, Tadashi; Yano, Makoto) Working and training: a nonlinear dynamic analysis of human capital development. (English summary) **2005a:91090**

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— *see also* **Mitra, Tapan**, **2005i:91083**

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de O. Cavalcanti, Ricardo A monetary mechanism for sharing capital: Diamond and Dybvig meet Kiyotaki and Wright. (English summary)

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Zhu, Hong Liang Controllability of economic growth models with time delay. (Chinese. English and Chinese summaries)

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Items with secondary classifications in 91B62

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Jeanblanc-Picqué, Monique (*with* Lakner, Peter; Kadam, Ashay) Optimal bankruptcy time and consumption/investment policies on an infinite horizon with a continuous debt repayment until bankruptcy. (English summary) **2005b:49059**
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— *see also* **Grigor'eva, E. V., 2005k:93009**
Khritonenko, N. V. (*with* Yatsenko, Yu. P.) Non-smooth solutions of a nonlinear integral-functional equation with an unknown delay. (English summary) **2005h:45003**
— Optimization analysis of a nonlinear integral model with applications to economics. (English summary) **2005h:49064**
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Kleber, Rainer A dynamic model for choosing the optimal technology in the context of reverse logistics. (English summary) (*see* **2005d:90005**)
Kopel, Michael (*with* Szidarovszky, Ferenc; Yousefi, Shahriar) Introduction [Special issue on dynamic oligopolies].
— *see also* **Bischi, Gian-Italo et al., 2005e:91040**
Krause, Ulrich (*with* Pituk, Mihály) Boundedness and stability for higher order difference

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Perri, Fabrizio *see* **Kehoe, Patrick J., 2005e:91125**

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Polemarchakis, Herakles M. *see* **Nakajima, Tomoyuki, 2005h:91177**

Pospelov, I. G. *see* **Andreev, M. Yu., 2005h:91170**

(Prescott, Edward C.) *see* **Lagos, Ricardo, 2005m:91157**

Primiceri, Giorgio E. Time varying structural vector autoregressions and monetary policy. (English summary)

Quadrini, Vincenzo *see* **Cooley, Thomas F., 2005d:91083**

Rathie, Pushpa Narayan *see* **Matsushita, Raul et al.**

Rebelo, Sergio *see* **Burnside, Craig et al.**

Ren, Xue Min (*with* Li, Shao Hua) Pricing deposit̀ product of exchange rate range accrual. (Chinese. English and Chinese summaries)

Roberds, William *see* **Kahn, Charles M. et al., 2005m:91155**

Rocheteau, Guillaume *see* **Lagos, Ricardo, 2005m:91157**

Roldos, Jorge *see* **Christiano, Lawrence J. et al.**

Rossi, Barbara Testing long-horizon predictive ability with high persistence, and the Meese-Rogoff puzzle. (English summary) **2005m:91160**

Sanz, Nicolas *see* **Julien, Ludovic A., 2005j:91059**

Schmitt-Grohé, Stephanie (*with* Uribe, Martín) Optimal fiscal and monetary policy under sticky prices. (English summary) **2005d:91085**

Schneider, Martin[2] (*with* Tornell, Aaron) Balance sheet effects, bailout guarantees and financial crises. (English summary) **2005a:91098**

Schokkaert, Erik (*with* Van de gaer, Dirk; Vandenbroucke, Frank; Luttens, Roland Iwan) Responsibility sensitive egalitarianism and optimal linear income taxation. (English summary) **2005a:91099**

Shaw, Ming-fu *see* **Lai, Ching-chong et al., 2005k:91233**

Sheinin, E. Ya. *see* **Smirnov, A. P. et al., 2005g:91148**

Shi, Kang *see* **Devereux, Michael B. et al., 2005k:91230**

Shi, Shouyong Nominal bonds and interest rates. (English summary) **2005m:91161**

— *see also* **Peterson, Brian, 2005e:91126**

Shimizu, Takashi[2] *see* **Matsui, Akihiko, 2005h:91176**

Shimizu, Tokiko *see* **Inaoka, Hajime et al.**

Shmelev, A. B. *see* **Smirnov, A. P. et al., 2005g:91148**

Sleet, Christopher Optimal taxation with private government information. (English summary) **2005e:91127**

Smirnov, A. P. (*with* Shmelev, A. B.; Sheinin, E. Ya.) Analysis of Fokker-Planck approach for foreign exchange market statistics study. (English summary) **2005g:91148**

Smith, Bruce D. *see* **Boyd, John H. et al.**

Söderlind, Paul *see* **Giordani, Paolo**[2]**, 2005e:91124**

Sun, Yeneng *see* **Hammond, Peter J., 2005h:91172**

Sveen, Tommy (*with* Weinke, Lutz) New perspectives on capital, sticky prices, and the Taylor principle. (English summary) **2005m:91162**

Szentes, Balázs *see* **Fong, Yuk-fai**

Takayasu, Hideki *see* **Inaoka, Hajime et al.**

Takeuchi, Yasuhiro (*with* Yamamura, Tatsuya) Stability analysis of the Kaldor model with time delays: monetary policy and government budget constraint. (English summary) **2005e:91128**

Takimoto, Taro *see* **Hosoya, Yuzo et al.**

Tang, Xueli (*with* King, Ian) A comment on R. Benabou: "Tax and education policy in a heterogeneous-agent economy: what levels of redistribution maximize growth and efficiency?" [Econometrica **70** (2002), no. 2, 481–517; MR1913821 (2003f:91075)].

Taniguchi, Ken *see* **Inaoka, Hajime et al.**

Temzelides, Ted *see* **de O. Cavalcanti, Ricardo et al., 2005m:91159**

Tong, Charles Lai *see* **Manolova, Petia et al.**

Tornell, Aaron *see* **Schneider, Martin**[2]**, 2005a:91098**

Uchida, Hirofumi *see* **Fujiki, Hiroshi et al.**

Uribe, Martín *see* **Schmitt-Grohé, Stephanie, 2005d:91085**

Van de gaer, Dirk *see* **Schokkaert, Erik et al., 2005a:91099**

Vandenbroucke, Frank *see* **Schokkaert, Erik et al., 2005a:91099**

van de Ven, Justin (*with* Creedy, John) Taxation, reranking and equivalence scales. (English summary) **2005h:91178**

Wallace, Neil (*with* Zhu, Tao[4]) A commodity-money refinement in matching models. (English summary) **2005b:91173**

— From private banking to central banking: ingredients of a welfare analysis. (English summary) **2005m:91163**

Waller, Christopher *see* **Berentsen, Aleksander et al., 2005m:91147**

(Weber, Warren E.) *see* **Shi, Shouyong, 2005m:91161**

Weinke, Lutz *see* **Sveen, Tommy, 2005m:91162**

Weymark, Diana N. *see* **Hughes Hallett, Andrew**

Whalley, John (*with* Zhang, Shunming) VAT base broadening when the location of some consumption is mobile. (English summary)

(Williamson, Stephen D.) *see* **Berentsen, Aleksander et al., 2005m:91147**

Wilson, John Douglas *see* **Davidson, Carl et al., 2005h:91171**

Wright, Randall *see* **He, Ping et al., 2005m:91153**

Xu, Juanyi *see* **Devereux, Michael B. et al., 2005k:91230**

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Yip, Chong K. *see* **Meng, Qinglai, 2005a:91097**

Yoshikawa, Hiroshi *see* **Aoki, Masanao, 2005k:91228**

Zhang, Shunming *see* **Whalley, John**

Zhou, Ruilin *see* **Green, Edward J., 2005m:91152**

Zhu, Tao[4] *see* **Wallace, Neil, 2005b:91173**

Items with secondary classifications in 91B64

Adilov, G. R. (*with* Tinaztepe, G.) The asymptotic aggregation problem and the macrodescription of high dimensional systems. (English summary)

Afful, Kofi B. An explanation of non-equilibrium currency bid-ask spreads. (English summary)

Álvarez-Lois, Pedro P. Capacity constraints, idiosyncratic demand uncertainty and the dynamics of inflation. (English summary) **2005i:91079**

An, Hong-zhi *see* **Li, Hui**[8] **et al., 2005g:62012**

Aoki, Masanao A new model of industry dynamics. (English summary) **2005m:91164**

Arkin, Vadim I. (*with* Slastnikov, A. D.) Optimal tax depreciation in stochastic investment model. (English summary) **2005f:91061**

Bayraktar, Erhan (*with* Poor, H. Vincent; Sircar, K. Ronnie) Estimating the fractal dimension of the S&P 500 index using wavelet analysis. (English summary) **2005c:62145**

Behrens, Doris *see* **Neck, Reinhard**

Benhabib, Jess (*with* Carlstrom, Charles T.; Fuerst, Timothy S.) Introduction to monetary policy and capital accumulation. (English summary)

Berentsen, Aleksander (*with* Camera, Gabriele; Waller, Christopher) The distribution of money and prices in an equilibrium with lotteries. (English summary) **2005e:91059**

Bloise, Gaetano (*with* Drèze, Jacques H.; Polemarchakis, Herakles M.) Monetary equilibria over an infinite horizon. (English summary) **2005g:91136**

Boswijk, H. Peter (*with* Doornik, Jurgen A.) Identifying, estimating and testing restricted cointegrated systems: an overview. (English summary) **2005g:62149**

Bruinshoofd, Allard (*with* Candelon, Bertrand) Nonlinear monetary policy in Europe: fact or myth? (English summary)

Camera, Gabriele Recent developments on money and finance: an introduction.

— *see also* **Berentsen, Aleksander et al., 2005e:91059**

Candelon, Bertrand *see* **Bruinshoofd, Allard**

Carlstrom, Charles T. *see* **Benhabib, Jess et al.**

Chichilnisky, Graciela (*with* Gorbachev, Olga) Volatility in the knowledge economy. (English summary) **2005e:91114**

Chopin, Nicolas (*with* Pelgrin, Florian) Bayesian inference and state number determination for hidden Markov models: an application to the information content of the yield curve about inflation. (English summary)

Corbae, Dean (*with* Ritter, Joseph) Decentralized credit and monetary exchange without public record keeping. (English summary)
Costantini, Domenico *see* **Garibaldi, Ubaldo et al., 2005d:91088**
De Fiore, Fiorella (*with* Liu, Zheng[3]) Does trade openness matter for aggregate instability? (English summary)
De Fraja, Gianni Reverse discrimination and efficiency in education. (English summary)
Diks, Cees (*with* van der Weide, Roy) Herding, a-synchronous updating and heterogeneity in memory in a CBS. (English summary)
Doornik, Jurgen A. *see* **Boswijk, H. Peter, 2005g:62149**
Drèze, Jacques H. *see* **Bloise, Gaetano et al., 2005g:91136**
Du, Jiangfeng (*with* Ju, Chenyong; Li, Hui[5]) Quantum entanglement helps in improving economic efficiency. (English summary) **2005j:81047**
de Fontenay, Catherine C. (*with* Gans, Joshua S.) Optional fixed fees in multilateral vertical relations. (English summary) **2005m:91031**
Francis, Peter J. Optimal tax-subsidy combinations for the flu season. (English summary) **2005b:91164**
Fuerst, Timothy S. *see* **Benhabib, Jess et al.**
(Gallegati, Mauro) *see* **Complex dynamics of economic interaction, 2005m:91006**
Gans, Joshua S. *see* **de Fontenay, Catherine C., 2005m:91031**
Garibaldi, Ubaldo (*with* Costantini, Domenico; Viarengo, Paolo) A finitary characterization of the Ewens sampling formula. (English summary) **2005d:91088**
Gorbachev, Olga *see* **Chichilnisky, Graciela, 2005e:91114**
Hansen, Jes Winther Uncertainty and the size of government. (English summary) **2005m:91057**
Haque, M. Emranul (*with* Mukherjee, Arijit) On the revenue implications of trade liberalization under imperfect competition. (English summary) **2005m:91132**
Head, Allen (*with* Kumar, Alok) Price dispersion, inflation, and welfare. (English summary) **2005m:91139**
Hernandez-Verme, Paula L. Inflation, growth and exchange rate regimes in small open economies. (English summary) **2005e:91118**
Hołyst, Janusz A. (*with* Nowak, Maciej A.) Editorial [Applications of physics in financial analysis 4 (APFA4)].
Hougaard, Jens Leth (*with* Østerdal, Lars Peter) Inequality preserving rationing. (English summary) **2005m:91021**
Hu, Rong (*with* Hu, Shi Geng) Military spending and stochastic growth with government bond. (English and Chinese summaries)
Hu, Shi Geng *see* **Li, Dong, 2005k:60212** *and* **Hu, Rong**
İmrohoroğlu, Ayse (*with* Merlo, Antonio; Rupert, Peter) What accounts for the decline in crime? (English summary) **2005d:91078**
Jeanblanc-Picqué, Monique (*with* Lakner, Peter; Kadam, Ashay) Optimal bankruptcy time and consumption/investment policies on an infinite horizon with a continuous debt repayment until bankruptcy. (English summary) **2005b:49059**
Ju, Chenyong *see* **Du, Jiangfeng et al., 2005j:81047**
Kadam, Ashay *see* **Jeanblanc-Picqué, Monique et al., 2005b:49059**
von Kalckreuth, Ulf (*with* Krtscha, Manfred) Stable solutions to homogeneous difference-differential equations with constant coefficients: analytical instruments and an application to monetary theory. (English summary) **2005b:34123**
(Kirman, Alan P.) *see* **Complex dynamics of economic interaction, 2005m:91006**
Koopman, Siem Jan *see* **Zivot, Eric et al., (2005c:62005)**
Krtscha, Manfred *see* **von Kalckreuth, Ulf, 2005b:34123**
Kumar, Alok *see* **Head, Allen, 2005m:91139**
Laffargue, Jean-Pierre A sufficient condition for the existence and the uniqueness of a solution in macroeconomic models with perfect foresight. (English summary) **2005a:91089**
Lakner, Peter *see* **Jeanblanc-Picqué, Monique et al., 2005b:49059**
Li, Dong (*with* Hu, Shi Geng) A stochastic endogenous growth model for human capital investment. (Chinese. English and Chinese summaries) **2005k:60212**
Li, Hui[5] *see* **Du, Jiangfeng et al., 2005j:81047**
Li, Hui[8] (*with* An, Hong-zhi; Wu, Guo-fu) An efficient algorithm for the optimal market timing over two stocks. (English summary) **2005g:62012**
Li, Zhong Fei (*with* Wang, Shou Yang) Optimal consumption-portfolio selection in frictional markets. (Chinese. English and Chinese summaries)
Liu, Zheng[3] *see* **De Fiore, Fiorella**
(Lux, Thomas) *see* **Nonlinear dynamics and heterogeneous interacting agents, 2005j:91003**
(Marsili, Matteo) *see* **Complex dynamics of economic interaction, 2005m:91006**
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(Mortensen, Dale T.) *see* **Head, Allen, 2005m:91139**
Moscarini, Giuseppe Job matching and the wage distribution. (English summary) **2005j:91052**
Mukherjee, Arijit *see* **Haque, M. Emranul, 2005m:91132**
Neck, Reinhard (*with* Behrens, Doris) Macroeconomic policies in a monetary union: a dynamic game. (English summary)
Nowak, Maciej A. *see* **Hołyst, Janusz A.**
de O. Cavalcanti, Ricardo A monetary mechanism for sharing capital: Diamond and Dybvig meet Kiyotaki and Wright. (English summary)
Ortlieb, Claus Peter Methodische Probleme und methodische Fehler der mathematischen Modellierung in der Volkswirtschaftslehre. (German summary) [Methodical problems and methodical mistakes of mathematical modeling in economics] **2005g:91087**
Østerdal, Lars Peter *see* **Hougaard, Jens Leth, 2005m:91021**
Pelgrin, Florian *see* **Chopin, Nicolas**
Pierdzioch, Christian Capital mobility, consumption substitutability and the effects of monetary policy in open economies. (English summary) **2005h:91164**
Polemarchakis, Herakles M. *see* **Bloise, Gaetano et al., 2005g:91136**
Poor, H. Vincent *see* **Bayraktar, Erhan et al., 2005c:62145**
Prikarpat·s'kiĭ, O. A. *see* **Tverdokhlib, I. P., 2005e:90064**
Rampini, Adriano A. Default and aggregate income. (English summary) **2005m:91142**
(Reitz, Stefan) *see* **Nonlinear dynamics and heterogeneous interacting agents, 2005j:91003**
Ritter, Joseph *see* **Corbae, Dean**
Rupert, Peter *see* **İmrohoroğlu, Ayse et al., 2005d:91078**
(Samanidou, Eleni) *see* **Nonlinear dynamics and heterogeneous interacting agents, 2005j:91003**
Shevchenko, Andrei (*with* Wright, Randall) A simple search model of money with heterogeneous agents and partial acceptability. (English summary)
Sircar, K. Ronnie *see* **Bayraktar, Erhan et al., 2005c:62145**
Slastnikov, A. D. *see* **Arkin, Vadim I., 2005f:91061**
Tinaztepe, G. *see* **Adilov, G. R.**
Tong, Yu-yuan *see* **Zhang, Rong[3] et al., 2005m:91036**
Tverdokhlib, I. P. (*with* Prikarpat·s'kiĭ, O. A.) Dynamical system approach to solving linear programming problems and applications in economics modelling. (English and Ukrainian summaries) **2005e:90064**
Vera, Leonardo V. Recession, high interest rates and instability: simple macro-dynamics. (English summary) **2005m:91144**
Vetter, Henrik Pollution taxes for monopolistically competitive firms. (English summary)
Viarengo, Paolo *see* **Garibaldi, Ubaldo et al., 2005d:91088**
Waller, Christopher *see* **Berentsen, Aleksander et al., 2005e:91059**
Wang, Jeffrey *see* **Zivot, Eric et al., (2005c:62005)**
Wang, Shou Yang *see* **Li, Zhong Fei**
Wang, Xuejun Tax evasion, tax competition and gains from nondiscrimination with equilibrium mixed strategies. (English summary) **2005a:91013**
van der Weide, Roy *see* **Diks, Cees**
Wright, Randall Introduction to "Models of monetary economies. II. The next generation".
— *see also* **Shevchenko, Andrei**
Wu, Guo-fu *see* **Li, Hui[8] et al., 2005g:62012**
Xu, Jun-ying *see* **Zhang, Rong[3] et al., 2005m:91036**
Yamazaki, Akira Monetary equilibrium with buying and selling price spread without transactions costs. (English summary) **2005c:91090**
Zhang, Rong[3] (*with* Tong, Yu-yuan; Xu, Jun-ying) A simplified differential game model for the optimal choice of tax rate. (English summary) **2005m:91036**
Zhu, Qiji J. Nonconvex separation theorem for multifunctions, subdifferential calculus and applications. (English summary) **2005c:49061**
Zhu, Tao[4] Existence of a monetary steady state in a matching model: indivisible money. (English summary) **2005b:91178**
— Existence of a monetary steady state in a matching model: divisible money. (English summary) **2005m:91167**
Zivot, Eric (*with* Wang, Jeffrey; Koopman, Siem Jan) State space modelling in macroeconomics and finance using SsfPack in S + Finmetrics. (English summary) (*see* **2005c:62005**)

Items listed otherwise than by author

Complex dynamics of economic interaction ★ The complex dynamics of economic interaction. **2005m:91006**
Kiel ★ Nonlinear dynamics and heterogeneous interacting agents. **2005j:91003**
Lecture Notes in Economics and Mathematical Systems ★ The complex dynamics of economic interaction. **2005m:91006**
— ★ Nonlinear dynamics and heterogeneous interacting agents. **2005j:91003**
Nonlinear dynamics and heterogeneous interacting agents ★ Nonlinear dynamics and heterogeneous interacting agents. **2005j:91003**
Trieste ★ The complex dynamics of economic interaction. **2005m:91006**

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Aoki, Masanao A new model of industry dynamics. (English summary) **2005m:91164**
Beladi, Hamid (*with* Oladi, Reza) Foreign investment policies and environment. (English summary)
Bosi, Stefano (*with* Magris, Francesco; Venditti, Alain) Competitive equilibrium cycles with endogenous labor. (English summary) **2005k:91234**
Chen, Guanrong *see* **Li, Xiang[2] et al.**
Jin, Yu Ying *see* **Li, Xiang[2] et al.**
Li, Xiang[2] (*with* Jin, Yu Ying; Chen, Guanrong) On the topology of the world exchange arrangements web. (English summary)
Magris, Francesco *see* **Bosi, Stefano et al., 2005k:91234**
Meier, Volker Economic consequences of the Posted Workers Directive. (English summary)
Oladi, Reza *see* **Beladi, Hamid**
Venditti, Alain *see* **Bosi, Stefano et al., 2005k:91234**

Items with secondary classifications in 91B66

Aghion, Philippe (*with* Bacchetta, Philippe; Banerjee, Abhijit V.) A corporate balance-sheet approach to currency crises. (English summary)
Alessandria, George International deviations from the law of one price: the role of search frictions and market share. (English summary) **2005e:91056**
Aoki, Masanao (*with* Yoshikawa, Hiroshi) A new model of labor dynamics: ultrametrics, Okun's law, and transient dynamics. (English summary) **2005k:91228**
Bacchetta, Philippe *see* **Aghion, Philippe et al.**
Banerjee, Abhijit V. *see* **Aghion, Philippe et al.**
Belan, E. P. (*with* Mikhalevich, M. V.; Sergienko, Ivan V.) Cyclicity of economic processes in systems with a monopsonic labor market. (Russian. English and Ukrainian summaries) **2005d:34095**
Brecher, Richard A. (*with* Chen, Zhiqi; Choudhri, Ehsan U.) Dynamic stability in a two-country model of optimal growth and international trade. (English summary) **2005h:91157**
Chen, Xiao Lan Multi-sector dynamic macroeconomic model and research on economy balanced growth. (Chinese. English and Chinese summaries)
Chen, Zhiqi *see* **Brecher, Richard A. et al., 2005h:91157**
Choudhri, Ehsan U. *see* **Brecher, Richard A. et al., 2005h:91157**
Deissenberg, Christophe (*with* Gonzalez, Francisco Alvarez) Pareto-improving cheating in an economic policy game. (English summary) **2005c:91023**
Dogaru, Oltin *see* **Udrişte, Constantin et al., 2005h:91079**
Edwards, Ronald A. The structure of authority, federalism, commitment and economic growth. (English summary) **2005j:91057**

Ellickson, Bryan (*with* Zame, William R.) A competitive model of economic geography. (English summary) **2005g:91137**
Evans, Paul (*with* Kim, Ji Uk) Estimating convergence for Asian economies using dynamic random variable models. (English summary) **2005h:91180**
Ferrara, Massimiliano *see* **Udrişte, Constantin et al., 2005h:91079**
Fukuyama, Hirofumi (*with* Naito, Tohru) Industrial garbage tax and environmental policy game under a two-region model. (English summary) **2005k:91238**
Ghiglino, Christian (*with* Olszak-Duquenne, Marielle) On the impact of heterogeneity on indeterminacy. (English summary) **2005h:91159**
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Greiner, Alfred Fiscal policy in an endogenous growth model with public capital and pollution. (English summary) **2005k:91216**
Hu, Shi Geng *see* **Lü, Yong et al., 2005h:91161** *and* **Zhou, Shao-bo et al., 2005m:91145**
Kim, Ji Uk *see* **Evans, Paul, 2005h:91180**
Lü, Yong (*with* Hu, Shi Geng; Zhao, Jian Bin) Stochastic economic growth of a two-country model. (Chinese. English and Chinese summaries) **2005h:91161**
Mikhalevich, M. V. *see* **Belan, E. P. et al., 2005d:34095**
Naito, Tohru *see* **Fukuyama, Hirofumi, 2005k:91238**
Niglia, Andrea *see* **Udrişte, Constantin et al., 2005h:91079**
Nishimura, Kazuo (*with* Shigoka, Tadashi; Yano, Makoto) Optimal topological chaos in dynamic economies. (English summary) **2005f:91101**
— (*with* Venditti, Alain) Capital depreciation, factor substitutability and indeterminacy. (English summary) **2005f:91102**
Olszak-Duquenne, Marielle *see* **Ghiglino, Christian, 2005h:91159**
Phan Thiên Thạch Equilibrium prices and quasiconvex duality. (English summary) **2005g:90107**
Pierdzioch, Christian Capital mobility, consumption substitutability and the effects of monetary policy in open economies. (English summary) **2005h:91164**
Sergienko, Ivan V. *see* **Belan, E. P. et al., 2005d:34095**
Shigoka, Tadashi *see* **Nishimura, Kazuo et al., 2005f:91101**
Tong, Jian High-tech and high capability in a growth model. (English summary) **2005i:91087**
Udrişte, Constantin (*with* Dogaru, Oltin; Ferrara, Massimiliano; Niglia, Andrea) Nonholonomic evolution of two-sector economy. (English and Romanian summaries) **2005h:91079**
Venditti, Alain *see* **Nishimura, Kazuo, 2005f:91102**
Wu, Fu-ke *see* **Zhou, Shao-bo et al., 2005m:91145**
Xiao, Wei[1] Can indeterminacy resolve the cross-country correlation puzzle? (English summary) **2005e:91123**
Yano, Makoto *see* **Nishimura, Kazuo et al., 2005f:91101**
Yoshikawa, Hiroshi *see* **Aoki, Masanao, 2005k:91228**
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Zhao, Jian Bin *see* **Lü, Yong et al., 2005h:91161**
Zhou, Shao-bo (*with* Hu, Shi Geng; Wu, Fu-ke) Two-sector endogenous economic growth model with government services. (English and Chinese summaries) **2005m:91145**

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Alcalde, José (*with* Romero-Medina, Antonio) Sequential decisions in the college admissions problem. (English summary) **2005k:91235**
Berentsen, Aleksander (*with* Rocheteau, Guillaume) Money and information. (English summary) **2005e:91129**
Bogomol'naya, A. V. (*with* Moulin, Hervé) Random matching under dichotomous preferences. (English summary) **2005b:91174**
Camera, Gabriele Distributional aspects of the divisibility of money: an example. (English summary)
Cantala, David Restabilizing matching markets at senior level. (English summary) **2005a:91100**
Cechlárová, Katarína (*with* Ferková, Soňa) The stable crews problem. (English summary) **2005e:91130**
Chakraborty, Archishman (*with* Citanna, Alessandro) Occupational choice, incentives and wealth distribution. (English summary) **2005m:91165**
Cheron, A. Efficient v.s. equilibrium unemployment with match-specific costs. (English summary) **2005m:91166**
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Corbae, Dean (*with* Ritter, Joseph) Decentralized credit and monetary exchange without public record keeping. (English summary)
Danilov, Vladimir Ivanovich[1] Existence of stable matchings in some three-sided systems. (English summary) **2005b:91175**
Diamantoudi, Effrosyni (*with* Miyagawa, Eiichi; Xue, Licun) Random paths to stability in the roommate problem. (English summary) **2005b:91176**
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Fleiner, Tamás On the stable b-matching polytope. (English summary) **2005b:91177**
Klaus, Bettina (*with* Klijn, Flip) Stable matchings and preferences of couples. (English summary) **2005k:91236**
Klijn, Flip *see* **Klaus, Bettina, 2005k:91236**
Kultti, Klaus (*with* Virrankoski, Juha) Price distribution in a random matching model. (English summary) **2005c:91101**
Laureti, Paolo (*with* Mathiesen, Joachim; Zhang, Yi-Cheng) Selection by pairwise comparisons with limited resources. (English summary)
Martínez, Ruth (*with* Massó, Jordi; Neme, Alejandro; Oviedo, Jorge) On group strategy-proof mechanisms for a many-to-one matching model. (English summary) **2005g:91149**
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Mauleon, Ana (*with* Vannetelbosch, Vincent J.) Farsightedness and cautiousness in coalition formation games with positive spillovers. (English summary) **2005g:91150**
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Scheibe, Karl E. (*with* Comfort, W. W.) Forming all pairs in a minimal number of steps. (English summary) **2005k:91237**
Vannetelbosch, Vincent J. *see* **Mauleon, Ana, 2005g:91150**
Virrankoski, Juha *see* **Kultti, Klaus, 2005c:91101**
Xue, Licun *see* **Diamantoudi, Effrosyni et al., 2005b:91176**
Zhang, Yi-Cheng *see* **Laureti, Paolo et al.**
Zhu, Tao[4] Existence of a monetary steady state in a matching model: indivisible money. (English summary) **2005b:91178**
— Existence of a monetary steady state in a matching model: divisible money. (English summary) **2005m:91167**

Items with secondary classifications in 91B68

Abbink, Klaus (*with* Sadrieh, Abdolkarim; Zamir, Shmuel) Fairness, public good, and emotional aspects of punishment behavior. (English summary) **2005h:91058**
Abraham, David J. (*with* Irving, Robert W.; Manlove, David F.) The student-project allocation problem. (English summary) (*see* **2005c:68004**)
Agrawal, Aseem *see* **Bansal, Vipul et al., 2005c:05148**
Alkan, Ahmet (*with* Moulin, Hervé) Editorial [Proceedings of the NATO Advanced Research Workshop on Mathematical Theories of Allocation of Discrete Resources: Equilibria, Matchings, Mechanisms].
Bansal, Vipul (*with* Agrawal, Aseem; Malhotra, Varun S.) Stable marriages with multiple partners: efficient search for an optimal solution. (English summary) **2005c:05148**
Boros, Endre (*with* Gurvich, Vladimir; Jaslar, Steven; Krasner, Daniel) Stable matchings in three-sided systems with cyclic preferences. (English summary) **2005g:91016**
Cowan, Robin (*with* Jonard, Nicolas; Zimmermann, Jean-Benoît) On the creation of networks and knowledge. (English summary) (*see* **2005m:91006**)
Crawford, Gregory S. (*with* Shum, Matthew) Uncertainty and learning in pharmaceutical demand. (English summary) **2005m:91042**
Eguchi, Akinobu (*with* Fujishige, Satoru; Tamura, Akihisa) A generalized Gale-Shapley algorithm for a discrete-concave stable-marriage model. (English summary) **2005f:05164**
Ehlers, Lars In search of advice for participants in matching markets which use the deferred-acceptance algorithm. (English summary) **2005b:91092**
Fujishige, Satoru *see* **Eguchi, Akinobu et al., 2005f:05164**
Gurvich, Vladimir *see* **Boros, Endre et al., 2005g:91016**
Halldórsson, Magnús M. (*with* Iwama, Kazuo; Miyazaki, Shuichi; Yanagisawa, Hiroki) Randomized approximation of the stable marriage. (English summary) **2005e:68181**
Halupka, Konrad *see* **Hutchinson, John M. C.** *and* **Errata: "Mate choice when males are in patches: optimal strategies and good rules of thumb"**
Huang, Chien-Chieh (*with* Laing, Derek; Wang, Ping[12]) Crime and poverty: a search-theoretic approach. (English summary) **2005b:90056**
Hutchinson, John M. C. (*with* Halupka, Konrad) Mate choice when males are in patches: optimal strategies and good rules of thumb. (English summary)
— *see also* **Errata: "Mate choice when males are in patches: optimal strategies and good rules of thumb"**
Irving, Robert W. *see* **Abraham, David J. et al., (2005c:68004)**
Iwama, Kazuo *see* **Halldórsson, Magnús M. et al., 2005e:68181**
Jaslar, Steven *see* **Boros, Endre et al., 2005g:91016**
Jha, J. S. Marital structure. (English summary)
Jonard, Nicolas *see* **Cowan, Robin et al., (2005m:91006)**
Kavitha, Telikepalli (*with* Mehlhorn, Kurt; Michail, Dimitrios; Paluch, Katarzyna) Strongly stable matchings in time $O(nm)$ and extension to the hospitals-residents problem. (English summary) **2005e:68097**
Khachaĭ, M. Yu. *see* **Mazurov, Vl. D. et al., 2005a:90169**
Krasner, Daniel *see* **Boros, Endre et al., 2005g:91016**
Laing, Derek *see* **Huang, Chien-Chieh et al., 2005b:90056**
Larson, Nathan Match choice and ghettoization in evolutionary games. (English summary) 2005a:91016
Malhotra, Varun S. *see* **Bansal, Vipul et al., 2005c:05148**
Manlove, David F. *see* **Abraham, David J. et al., (2005c:68004)**
Margolius, Barbara H. Avoiding your spouse at a bridge party.
— The dinner-diner matching problem.
Mazalov, Vladimir V. *see* **Sakaguchi, Minoru, 2005j:91014**
Mazurov, Vl. D. (*with* Khachaĭ, M. Yu.; Rybin, A. I.) Committee constructions for solving problems of selection, diagnostics, and prediction. (English summary) **2005a:90169**
Mehlhorn, Kurt *see* **Kavitha, Telikepalli et al., 2005e:68097**
Michail, Dimitrios *see* **Kavitha, Telikepalli et al., 2005e:68097**
Miyazaki, Shuichi *see* **Halldórsson, Magnús M. et al., 2005e:68181**
Monjardet, Bernard The presence of lattice theory in discrete problems of mathematical social sciences. Why. (English summary) **2005e:06007**
Moscarini, Giuseppe Job matching and the wage distribution. (English summary) **2005j:91052**
Moulin, Hervé *see* **Alkan, Ahmet**
Paluch, Katarzyna *see* **Kavitha, Telikepalli et al., 2005e:68097**
Pápai, Szilvia Unique stability in simple coalition formation games. (English summary) **2005b:91033**
Ramachandran, D. (*with* Rüschendorf, Ludger) Assignment models for constrained marginals and restricted markets. (English summary) **2005b:90153**
Rocheteau, Guillaume (*with* Wright, Randall) Money in search equilibrium, in competitive equilibrium, and in competitive search equilibrium. (English summary) **2005h:91078**
Rüschendorf, Ludger *see* **Ramachandran, D., 2005b:90153**
Rybin, A. I. *see* **Mazurov, Vl. D. et al., 2005a:90169**
Sadrieh, Abdolkarim *see* **Abbink, Klaus et al., 2005h:91058**
Sakaguchi, Minoru (*with* Mazalov, Vladimir V.) A non-zero-sum no-information best-choice game. (English summary) **2005j:91014**
Shum, Matthew *see* **Crawford, Gregory S., 2005m:91042**

Sönmez, Tayfun (*with* Ünver, M. Utku) House allocation with existing tenants: an equivalence. (English summary) **2005m:91063**
Stevens, Margaret Wage-tenure contracts in a frictional labour market: firms' strategies for recruitment and retention. (English summary) **2005b:91153**
Tamura, Akihisa *see* **Eguchi, Akinobu et al., 2005f:05164**
Ünver, M. Utku *see* **Sönmez, Tayfun, 2005m:91063**
Wallace, Neil (*with* Zhu, Tao[4]) A commodity-money refinement in matching models. (English summary) **2005b:91173**
Wang, Ping[12] *see* **Huang, Chien-Chieh et al., 2005b:90056**
Wright, Michael Bruce Scheduling fixtures for New Zealand Cricket. (English summary)
Wright, Randall *see* **Rocheteau, Guillaume, 2005h:91078**
Yanagisawa, Hiroki *see* **Halldórsson, Magnús M. et al., 2005e:68181**
Zamir, Shmuel *see* **Abbink, Klaus et al., 2005h:91058**
Zhu, Tao[4] *see* **Wallace, Neil, 2005b:91173**
Zimmermann, Jean-Benoît *see* **Cowan, Robin et al.,** (2005m:91006)

Items listed otherwise than by author

Errata:
"Mate choice when males are in patches: optimal strategies and good rules of thumb" Erratum to: "Mate choice when males are in patches: optimal strategies and good rules of thumb" [J. Theoret. Biol. **231** (2004), no. 1, 129–151; MR2107554] by J. M. C. Hutchinson and K. Halupka.

91B70 Stochastic models

Capobianco, Enrico Effective decorrelation and space dimensionality reduction of multiscaling volatility. (English summary)
Frauendorfer, Karl (*with* Schürle, Michael) Management of non-maturing deposits by multistage stochastic programming. (English summary) **2005b:91179**
Herings, P. Jean-Jacques *see* **Predtetchinski, Arkadi et al., 2005e:91131**
Mishin, S. P. Optimal stimulation in multilevel hierarchical structures. (Russian. Russian summary) **2005f:91104**
Peters, Hans *see* **Predtetchinski, Arkadi et al., 2005e:91131**
Pham, Huyên A predictable decomposition in an infinite assets model with jumps. Application to hedging and optimal investment. (English summary) **2005i:91090**
Predtetchinski, Arkadi (*with* Herings, P. Jean-Jacques; Peters, Hans) The strong sequential core in a dynamic exchange economy. (English summary) **2005e:91131**
Schürle, Michael *see* **Frauendorfer, Karl, 2005b:91179**

Items with secondary classifications in 91B70

Albanese, Claudio (*with* Chen, Oliver X.) Credit barrier models in a discrete framework. (English summary) **2005g:91090**
Álvarez-Lois, Pedro P. Capacity constraints, idiosyncratic demand uncertainty and the dynamics of inflation. (English summary) **2005i:91079**
Arkin, Vadim I. (*with* Slastnikov, A. D.) Optimal tax depreciation in stochastic investment model. (English summary) **2005f:91061**
Avram, Florin (*with* Kyprianou, Andreas E.; Pistorius, Martijn R.) Exit problems for spectrally negative Lévy processes and applications to (Canadized) Russian options. (English summary) **2005c:60053**
Bally, Vlad (*with* Pagès, Gilles) A quantization algorithm for solving multi-dimensional discrete-time optimal stopping problems. (English summary) **2005f:60096**
Battocchio, Paolo (*with* Menoncin, Francesco) Optimal pension management in a stochastic framework. (English summary) **2005g:91092**
Bender, Christian (*with* Elliott, Robert J.) Arbitrage in a discrete version of the Wick-fractional Black-Scholes market. (English summary) **2005g:91094**
Bielecki, Tomasz R. (*with* Björk, Tomas; Jeanblanc-Picqué, Monique; Rutkowski, Marek; Scheinkman, José A.; Xiong, Wei[2]) ★ Paris-Princeton Lectures on Mathematical Finance 2003. **2005g:91008**
Björk, Tomas *see* **Bielecki, Tomasz R. et al., 2005g:91008**
Bogomol'naya, A. V. (*with* Moulin, Hervé) Random matching under dichotomous preferences. (English summary) **2005b:91174**
Branch, William A. (*with* McGough, Bruce) Consistent expectations and misspecification in stochastic non-linear economies. (English summary) **2005k:91210**
Burnecki, Krzysztof (*with* Marciniuk, A.; Weron, Aleksander) On annuities under random rates of interest with payments varying in arithmetic and geometric progression. (English summary) **2005k:91144**
Cai, Xiao-Qiang (*with* Li, Yongjian; Tu, Fengsheng) Solving manpower planning problem with two types of jobs under uncertainty demand. (English summary)
(Carmona, René) *see* **Bielecki, Tomasz R. et al., 2005g:91008**
Chakraborti, Anirban *see* **Patriarca, Marco et al.**
Chang, Fwu-Ranq On the elasticities of harvesting rules. (English summary) **2005j:91060**
Chatterji, Shurojit Subjective temporary equilibrium. (English summary) **2005b:91162**
Chen, Oliver X. *see* **Albanese, Claudio, 2005g:91090**
(Çinlar, E.) *see* **Bielecki, Tomasz R. et al., 2005g:91008**
Cone, Thomas E. Learnability and transparency with time inconsistent monetary policy. (English summary)
Dagsvik, John K. (*with* Karlström, Anders) Compensating variation and Hicksian choice probabilities in random utility models that are nonlinear in income. (English summary) **2005h:91071**
Dai, Min[2] *see* **Jiang, Lishang, 2005j:91041**
Dalamagas, Basil The effects of government spending on work effort. (English summary)
Dana, R. A. Market behavior when preferences are generated by second-order stochastic dominance. (English summary) **2005b:91064**
Duncan, Tyrone E. Some processes associated with a fractional Brownian motion. (English summary) **2005h:60109**
(Ekeland, Ivar) *see* **Bielecki, Tomasz R. et al., 2005g:91008**
Elliott, Robert J. (*with* van der Hoek, John) Pricing claims on non tradable assets. (English summary) **2005b:91080**
— *see also* Bender, Christian, 2005g:91094
Emmer, Susanne (*with* Klüppelberg, Claudia) Optimal portfolios when stock prices follow an exponential Lévy process. (English summary) **2005b:91113**
Favero, Gino Shortfall risk minimisation versus symmetric (quadratic) hedging. (English summary) **2005k:91152**
Fouque, Jean-Pierre (*with* Han, Chuan-Hsiang) Asian options under multiscale stochastic volatility. (English summary) **2005h:91075**
Frankiewicz, Ewa Pricing of a defaultable coupon bond in an extended Merton's model. (English summary) **2005k:60234**
Gaffeo, Edoardo Inflation regimes and price-setting interactions. (English summary) **2005m:91150**
Gajdos, Thibault (*with* Tallon, Jean-Marc; Vergnaud, Jean-Christophe) Decision making with imprecise probabilistic information. (English summary) **2005b:91067**
Guasoni, Paolo (*with* Schachermayer, Walter) Necessary conditions for the existence of utility maximizing strategies under transaction costs. (English summary) **2005k:91154**
Guimarães-Filho, Roberto *see* **Mello, Marcelo, 2005m:91109**
Guo, Xin (*with* Liu, Jun; Zhou, Xun Yu) A constrained non-linear regular-singular stochastic control problem, with applications. (English summary) **2005g:49054**
Hammond, Peter J. (*with* Sun, Yeneng) Monte Carlo simulation of macroeconomic risk with a continuum of agents: the symmetric case. (English summary) **2005h:91172**
Han, Chuan-Hsiang *see* **Fouque, Jean-Pierre, 2005h:91075**
Helmes, Kurt Computing optimal selling rules for stocks using linear programming. (English summary) **2005m:90061**
van der Hoek, John *see* **Elliott, Robert J., 2005b:91080**
Hu, Rong (*with* Hu, Shi Geng) Military spending and stochastic growth with government bond. (English and Chinese summaries)
Hu, Shi Geng *see* **Wang, Hai Jun[2] et al., 2005c:91099; Li, Dong, 2005k:60212; Zuo, Yong Sheng** *and* **Hu, Rong**
Hu, Yi-jun *see* **Liu, Yan[3], 2005j:91048**
Hurd, T. R. A note on log-optimal portfolios in exponential Lévy markets. (English summary) **2005j:91029**
İmrohoroğlu, Ayse (*with* Merlo, Antonio; Rupert, Peter) What accounts for the decline in crime? (English summary) **2005d:91078**
Jeanblanc-Picqué, Monique *see* **Bielecki, Tomasz R. et al., 2005g:91008**
Jiang, Lishang (*with* Dai, Min[2]) Convergence of binomial tree methods for European/American path-dependent options. (English summary) **2005j:91041**
Joe, Harry Stochastic orderings in random utility models. (English summary) **2005c:91046**
Jonsson, Mattias (*with* Sircar, K. Ronnie) Options: to buy or not to buy? (English summary) **2005b:91120**
(Jouini, Elyès) *see* **Bielecki, Tomasz R. et al., 2005g:91008**
Kamizono, Kenji Partial hedging under transaction costs. (English summary) **2005c:91060**
Karlström, Anders *see* **Dagsvik, John K., 2005h:91071**
Kaski, Kimmo *see* **Patriarca, Marco et al.**
Kendrick, David A. Stochastic control for economic models: past, present and the paths ahead. (English summary) **2005h:93176**
Kirch, Michael (*with* Runggaldier, Wolfgang J.) Efficient hedging when asset prices follow a geometric Poisson process with unknown intensities. (English summary) **2005m:93162**
Klüppelberg, Claudia *see* **Emmer, Susanne, 2005b:91113**
Kou, S. C. (*with* Kou, S. G.) A diffusion model for growth stocks. (English summary) **2005g:60124**
Kou, S. G. *see* **Kou, S. C., 2005g:60124**
Kurozumi, Takushi Determinacy, learnability, and discretionary policy. (English summary)
Kyprianou, Andreas E. *see* **Avram, Florin et al., 2005c:60053**
Lee, Hangsuck A joint distribution of two-dimensional Brownian motion with an application to an outside barrier option. (English summary) **2005f:60177**
Li, Dong (*with* Hu, Shi Geng) A stochastic endogenous growth model for human capital investment. (Chinese. English and Chinese summaries) **2005k:60212**
Li, Peijun *see* **Zhang, Guan Quan, 2005h:91080**
Li, Yongjian *see* **Cai, Xiao-Qiang et al.**
Lin, Chin-Tsai *see* **Tu, Yu-Chen et al.**
Lin, Kyle Y. A sequential dynamic pricing model and its applications. (English summary) **2005b:91085**
Liu, Jun *see* **Guo, Xin et al., 2005g:49054**
Liu, Wei Qi *see* **Meng, Yin Feng, 2005k:91167**
Liu, Xian Zhong *see* **Ren, Yu Dong**
Liu, Yan[3] (*with* Hu, Yi-jun) Risk theory for the model with variable premium rate and disturbed by diffusion in a Markovian environment. (English and Chinese summaries) **2005j:91048**
Marciniuk, A. *see* **Burnecki, Krzysztof et al., 2005k:91144**
Mazza, Christian (*with* Rullière, Didier) A link between wave governed random motions and ruin processes. (English summary) **2005h:60125**
McCauley, Joseph L. ★ Dynamics of markets. **2005e:91006**
McGough, Bruce *see* **Branch, William A., 2005k:91210**
Mello, Marcelo (*with* Guimarães-Filho, Roberto) Finite horizons, human wealth, and the risk-free rate puzzle. (English summary) **2005m:91109**
Meng, Yin Feng (*with* Liu, Wei Qi) Option pricing and fluctuating. (Chinese. English and Chinese summaries) **2005k:91167**
Menoncin, Francesco *see* **Battocchio, Paolo, 2005g:91092**
Merlo, Antonio *see* **İmrohoroğlu, Ayse et al., 2005d:91078**
Meyer-Brandis, Thilo (*with* Proske, Frank) Explicit solution of a non-linear filtering problem for Lévy processes with application to finance. (English summary) **2005e:60089**
Mitra, Tapan (*with* Privileggi, Fabio) Cantor type invariant distribution in the theory of optimal growth under uncertainty. (English summary) **2005e:28007**
Moulin, Hervé *see* **Bogomol'naya, A. V., 2005b:91174**
Nakajima, Tomoyuki (*with* Polemarchakis, Herakles M.) Money and prices under uncertainty. (English summary) **2005h:91177**
Nie, Zan Kan *see* **Zhao, Xiao Yan, 2005k:91227**
Nishimura, Kazuo (*with* Stachurski, John) Stability of stochastic optimal growth models: a new approach. (English summary) **2005k:91222**
Novikov, A. V. (*with* Ogorodnikov, V. A.) Stochastic model of price series. (English

summary) (*see* **2005i:65006**)
Ogorodnikov, V. A. *see* **Novikov, A. V.,** (**2005i:65006**)
Olejnik, Jakub Arbitrage in a simple model with general transaction costs. (English summary) **2005k:91169**
Otaka, Masaaki (*with* Yoshida, Toshihiro) Study on option pricing in an incomplete market with stochastic volatility based on risk premium analysis. (English summary) **2005c:91049**
Pagès, Gilles *see* **Bally, Vlad, 2005f:60096**
Pan, Yan Chun *see* **Zheng, Yun²**
Patriarca, Marco (*with* Chakraborti, Anirban; Kaski, Kimmo) Gibbs versus non-Gibbs distributions in money dynamics. (English summary)
Pistorius, Martijn R. *see* **Avram, Florin et al., 2005c:60053**
Polemarchakis, Herakles M. *see* **Nakajima, Tomoyuki, 2005h:91177**
Pozdnyakov, Vladimir (*with* Steele, J. Michael) On the martingale framework for futures prices. (English summary) **2005b:60113**
Privault, Nicolas (*with* Wei, Xiao) A Malliavin calculus approach to sensitivity analysis in insurance. (English summary) **2005g:91123**
Privileggi, Fabio *see* **Mitra, Tapan, 2005e:28007**
Proske, Frank *see* **Meyer-Brandis, Thilo, 2005e:60089**
Ren, Yu Dong (*with* Liu, Xian Zhong) Unbalance of regional economic developments and economic growth. (Chinese. English and Chinese summaries)
Rullière, Didier *see* **Mazza, Christian, 2005h:60125**
Runggaldier, Wolfgang J. *see* **Kirch, Michael, 2005m:93162**
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Sircar, K. Ronnie *see* **Jonsson, Mattias, 2005b:91120**
Slastnikov, A. D. *see* **Arkin, Vadim I., 2005f:91061**
Slobodyan, Sergey Indeterminacy, sunspots, and development traps. (English summary) **2005i:91085**
Soner, H. Mete ★ Stochastic optimal control in finance. **2005m:93002**
Stachurski, John *see* **Nishimura, Kazuo, 2005k:91222**
Steele, J. Michael *see* **Pozdnyakov, Vladimir, 2005b:60113**
Steger, Thomas M. Stochastic growth under Wiener and Poisson uncertainty. (English summary) **2005i:91086**
Stoica, Gheorghe On the Föllmer-Schweizer-Barlow model. (English summary)
Sun, Yeneng *see* **Hammond, Peter J., 2005h:91172**
Sveen, Tommy (*with* Weinke, Lutz) New perspectives on capital, sticky prices, and the Taylor principle. (English summary) **2005m:91162**
Tallon, Jean-Marc *see* **Gajdos, Thibault et al., 2005b:91067**
(Touzi, Nizar) *see* **Bielecki, Tomasz R. et al., 2005g:91008**
Tu, Fengsheng *see* **Cai, Xiao-Qiang et al.**
Tu, Yu-Chen (*with* Lin, Chin-Tsai; Yeh, Tzu-Chia) A study of credit card market in Taiwan. (English summary)
Vergnaud, Jean-Christophe *see* **Gajdos, Thibault et al., 2005b:91067**
Wang, Hai Jun² (*with* Hu, Shi Geng; Zhang, Xue-qing) Portfolio, stochastic economic growth and effects of government policies. (English and Chinese summaries) **2005c:91099**
Wei, Xiao *see* **Privault, Nicolas, 2005g:91123**
Weinke, Lutz *see* **Sveen, Tommy, 2005m:91162**
Weron, Aleksander *see* **Burnecki, Krzysztof et al., 2005k:91144**
Xiong, Wei² *see* **Bielecki, Tomasz R. et al., 2005g:91008**
Xu, Hong-Kun Discrete and continuous-time models of financial derivatives. (English summary) **2005k:91180**
Yeh, Tzu-Chia *see* **Tu, Yu-Chen et al.**
Yoshida, Toshihiro *see* **Otaka, Masaaki, 2005c:91049**
Zhang, Guan Quan (*with* Li, Peijun) An inverse problem of derivative security pricing. (English summary) **2005h:91080**
Zhang, Xue-qing *see* **Wang, Hai Jun² et al., 2005c:91099**
Zhao, Xiao Yan (*with* Nie, Zan Kan) Expected discounted utility maximization from consumption and terminal wealth with transaction costs. (Chinese. English and Chinese summaries) **2005k:91227**
Zheng, Yun² (*with* Pan, Yan Chun) The confirmation of stock in the dynamic and stochastic production function model. (Chinese. English and Chinese summaries)
Zhou, Xun Yu *see* **Guo, Xin et al., 2005g:49054**
Žitković, Gordan Utility maximization with a stochastic clock and an unbounded random endowment. (English summary) **2005h:91128**
Zuo, Yong Sheng (*with* Hu, Shi Geng) Issuance of paper money and stochastic endogenous growth. (Chinese. English and Chinese summaries)

Items listed otherwise than by author

Lecture Notes in Mathematics *see* **Bielecki, Tomasz R. et al., 2005g:91008**
Paris-Princeton Lectures on Mathematical Finance 2003 *see* **Bielecki, Tomasz R. et al., 2005g:91008**

91B72 Spatial models

Bulanov, S. V. (*with* Echkina, E. Y.; Inovenkov, I. N.) The nonlinear dynamics of the business center in Beckmann's model. (English summary)
Echkina, E. Y. *see* **Bulanov, S. V. et al.**
Hassler, John (*with* Rodríguez Mora, José V.; Storesletten, Kjetil; Zilibotti, Fabrizio) A positive theory of geographic mobility and social insurance. (English summary) **2005h:91179**
Inovenkov, I. N. *see* **Bulanov, S. V. et al.**
Iordanov, Iordan V. (*with* Stoyanov, Stoyan V.; Vassilev, Andrei A.) Price dynamics in a two region model with strategic interaction. (English and Bulgarian summaries) **2005g:91151**
Rodríguez Mora, José V. *see* **Hassler, John et al., 2005h:91179**
Storesletten, Kjetil *see* **Hassler, John et al., 2005h:91179**
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Items with secondary classifications in 91B72

Eshima, Nobuoki *see* **Tabata, Minoru**
Iordanov, Iordan V. *see* **Vassilev, Andrei A. et al.**
Shvetsov, V. I. Mathematical modeling of traffic flows. (Russian. Russian summary) **2005d:90024**
Stoyanov, Stoyan V. *see* **Vassilev, Andrei A. et al.**
Tabata, Minoru (*with* Eshima, Nobuoki) The Fokker-Planck equation and the master equation in the theory of migration. (English summary)
Vassilev, Andrei A. (*with* Iordanov, Iordan V.; Stoyanov, Stoyan V.) A strategic model of trade between two regions with continuous-time price dynamics. (English summary)
Zhang, Qinghua Multiple-object auctions around a circle. (English summary) **2005h:91093**

91B74 Models of real-world systems

Davison, Matt *see* **Thompson, Matt et al.**
Evans, Paul (*with* Kim, Ji Uk) Estimating convergence for Asian economies using dynamic random variable models. (English summary) **2005h:91180**
Kim, Ji Uk *see* **Evans, Paul, 2005h:91180**
Rasmussen, Henning *see* **Thompson, Matt et al.**
Shiina, Takayuki A Lagrangian relaxation and column generation algorithm for stochastic unit commitment problem. (English summary)
Thompson, Matt (*with* Davison, Matt; Rasmussen, Henning) Valuation and optimal operation of electric power plants in competitive markets. (English summary)

Items with secondary classifications in 91B74

Álvarez Pinilla, Antonio *see* **Orea, Luis et al.**
Bishop, John A. (*with* Luo, Feijun; Zeager, Lester A.; Chow, K. Victor) Changes in economic advantage by national origin after German unification. (English summary)
Chattopadhyay, Raghabendra (*with* Duflo, Esther) Women as policy makers: evidence from a randomized policy experiment in India. (English summary) **2005b:91071**
Chen, Guanrong *see* **Li, Xiang² et al.**
Chow, K. Victor *see* **Bishop, John A. et al.**
Dalamagas, Basil The effects of government spending on work effort. (English summary)
Derigs, Ulrich (*with* Nickel, Nils-H.) On a local-search heuristic for a class of tracking error minimization problems in portfolio management. (English summary) **2005e:91074**
Doerner, Karl (*with* Gutjahr, Walter J.; Hartl, Richard F.; Strauss, Christine; Stummer, Christian) Pareto ant colony optimization: a metaheuristic approach to multiobjective portfolio selection. (English summary) **2005e:91075**
Duflo, Esther *see* **Chattopadhyay, Raghabendra, 2005b:91071**
Fernández Morales, Antonio Inequality and poverty in rural and urban areas in Spain: a parametric focus. (Spanish. Spanish summary)
Gutjahr, Walter J. *see* **Doerner, Karl et al., 2005e:91075**
Hartl, Richard F. *see* **Doerner, Karl et al., 2005e:91075**
Hasan, Mohammad S. On the validity of the random walk hypothesis applied to the Dhaka Stock Exchange. (English summary) **2005g:91155**
Jin, Yu Ying *see* **Li, Xiang² et al.**
Koshmanenko, Volodymyr Theorem of conflicts for a pair of probability measures. (English summary) **2005a:37170**
Küçükyazıcı, Beste (*with* Özdamar, Linet; Pokharel, Shaligram) Developing concurrent investment plans for power generation and transmission. (English summary)
Lee, Donghoon¹ An estimable dynamic general equilibrium model of work, schooling, and occupational choice. (English summary)
Li, Xiang² (*with* Jin, Yu Ying; Chen, Guanrong) On the topology of the world exchange arrangements web. (English summary)
Lin, Chin-Tsai *see* **Tu, Yu-Chen et al.**
Liu, Lipei *see* **Su, Chengjian et al.,** (**2005i:42002**)
Liu, Xing *see* **Su, Chengjian et al.,** (**2005i:42002**)
Luo, Feijun *see* **Bishop, John A. et al.**
Mansini, Renata (*with* Pferschy, Ulrich) Securitization of financial assets: approximation in theory and practice. (English summary) **2005e:91088**
Mari, Carlo (*with* Renò, Roberto) Credit risk analysis of mortgage loans: an application to the Italian market. (English summary)
Matveenko, V. D. A theory of economic growth and the dynamics of the Russian economy. (Russian. English and Russian summaries) **2005h:91162**
Morrison Paul, Catherine J. *see* **Orea, Luis et al.**
Nickel, Nils-H. *see* **Derigs, Ulrich, 2005e:91074**
Orea, Luis (*with* Álvarez Pinilla, Antonio; Morrison Paul, Catherine J.) Modeling and measuring production processes for a multi-species fishery: alternative technical efficiency estimates for the Northern Spain hake fishery. (English summary)
Özdamar, Linet *see* **Küçükyazıcı, Beste et al.**
Pferschy, Ulrich *see* **Mansini, Renata, 2005e:91088**
Pokharel, Shaligram *see* **Küçükyazıcı, Beste et al.**
Renò, Roberto *see* **Mari, Carlo**
Roljić, Lazo An expert system for national economy model simulations. (English summary)
Sheĭnzon, I. A. A comparison of theoretical formulas for the price and hedging strategy of the Russian option with real data. (Russian. Russian summary)
Siaens, Corinne (*with* Wodon, Quentin) Food subsidies and consumption inequality in Mexico. (English summary)
Strauss, Christine *see* **Doerner, Karl et al., 2005e:91075**
Stummer, Christian *see* **Doerner, Karl et al., 2005e:91075**
Su, Chengjian (*with* Liu, Xing; Liu, Lipei) An application of wavelet analysis to the spillovers of stock markets in China. (English summary) (*see* **2005i:42002**)
Tu, Yu-Chen (*with* Lin, Chin-Tsai; Yeh, Tzu-Chia) A study of credit card market in Taiwan. (English summary)
Wodon, Quentin *see* **Siaens, Corinne**
Yeh, Tzu-Chia *see* **Tu, Yu-Chen et al.**
Zeager, Lester A. *see* **Bishop, John A. et al.**

91B76 Environmental economics (natural resource models, harvesting, pollution, etc.)

Alavalapati, Janaki R. R. *see* **Stainback, G. Andrew**
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Begum, S. *see* **Manna, Sasadhar et al., 2005f:91105**
Bhattacharya, D. K. *see* **Manna, Sasadhar et al., 2005f:91105**
Borges, José G. *see* **Martins, Isabel et al., 2005g:91153**
Burridge, Robert (*with* Couët, Benoît; Auzerais, François; Vassiliadis, Vassilios) Optimal stimulation of oil production. (English summary) **2005a:91101**
Chang, Fwu-Ranq On the elasticities of harvesting rules. (English summary) **2005j:91060**
Chaudhuri, K. S. *see* **Purohit, D., 2005f:91107**
Constantino, Miguel *see* **Martins, Isabel et al., 2005g:91153**
Couët, Benoît *see* **Burridge, Robert et al., 2005a:91101**
Danielsson, Asgeir Entry and exit of labor and capital in a fishery. (English summary) **2005m:91168**
Delgado Pineda, Miguel (*with* Montero, Juan Aurelio; Suárez Fernández, Antonio) Study of the optimal harvesting control and the optimality system for an elliptic problem. (English summary) **2005b:91180**
Engel, Andrew International fishing as dynamic oligopoly with time delay. (English summary) **2005a:91102**
Fukuyama, Hirofumi (*with* Naito, Tohru) Industrial garbage tax and environmental policy game under a two-region model. (English summary) **2005k:91238**
Grigorkīv, V. S. (*with* Yakutova, O. Yu.; Timku, S. M.) A model of optimal ecological-economic dynamics. (Ukrainian. English summary) **2005h:91181**
Groot, Fons (*with* Withagen, Cees; de Zeeuw, Aart) Strong time-consistency in the cartel-versus-fringe model. (English summary) **2005b:91181**
Johansson-Stenman, Olof Global environmental problems, efficiency and limited altruism. (English summary)
Kaitala, Veijo (*with* Lindroos, Marko) When to ratify an environmental agreement: the case of high seas fisheries. (English summary) **2005c:91102**
Kar, Tapan Kumar[2] Conservation of a fishery through optimal taxation: a dynamic reaction model. (English summary) **2005g:91152**
Kieken, Hubert RAINS: modéliser les pollutions atmosphériques pour la négociation internationale. (English and French summaries) [RAINS: a model of atmospheric pollution for international negotiations]
Leung, PingSun *see* **Yu, Run**
Li, Wan Tong *see* **Luo, Zhi Xue et al., 2005b:91182**
Li, Zhi Ming Exploitable nonautonomous single-species systems. (Chinese. English and Chinese summaries)
Lindroos, Marko Sharing the benefits of cooperation in the Norwegian spring-spawning herring fishery. (English summary)
— *see also* **Kaitala, Veijo, 2005c:91102**
Little, L. Richard *see* **McDonald, A. David et al., 2005k:91240**
Liu, Kun Hui *see* **Yang, Rui-Cheng, 2005j:91061**
Liu, Xuemei Explaining the relationship between CO_2 emissions and national income—the role of energy consumption. (English summary)
Long, Ngo Van (*with* Soubeyran, Antoine) Selective penalization of polluters: an inf-convolution approach. (English summary) **2005i:91091**
Lund, Arne-Christian *see* **McDonald, A. David et al., 2005k:91240**
Luo, Zhi Xue (*with* Li, Wan Tong; Wang, Mian Sen) Optimal harvesting control problem for linear periodic age-dependent population dynamics. (English summary) **2005b:91182**
Manna, Sasadhar (*with* Bhattacharya, D. K.; Begum, S.) Optimization under congestion and gear saturation. (English summary) **2005f:91105**
Martins, Isabel (*with* Constantino, Miguel; Borges, José G.) A column generation approach for solving a non-temporal forest harvest model with spatial structure constraints. (English summary) **2005g:91153**
Mazalov, Vladimir V. (*with* Rettieva, Anna N.) A fishery game model with age-distributed population: reserved territory approach. **2005a:91103**
McAusland, Carol Learning by doing in the presence of an open access renewable resource: is growth sustainable? (English summary) **2005k:91239**
McDonald, A. David (*with* Sandal, Leif K.; Little, L. Richard; Lund, Arne-Christian; Steinshamn, Stein-Ivar) Inferring a biopolitical consensus view of stochastic dynamics for management of a transboundary fishery. (English summary) **2005k:91240**
Montero, Juan Aurelio *see* **Delgado Pineda, Miguel et al., 2005b:91180**
Morrison Paul, Catherine J. *see* **Orea, Luis et al.**
Naito, Tohru *see* **Fukuyama, Hirofumi, 2005k:91238**
Nikonov, O. I. A game-theoretic problem of optimizing the development of a natural gas market. (Russian. Russian summary) **2005f:91106**
Orea, Luis (*with* Álvarez Pinilla, Antonio; Morrison Paul, Catherine J.) Modeling and measuring production processes for a multi-species fishery: alternative technical efficiency estimates for the Northern Spain hake fishery. (English summary)
Purohit, D. (*with* Chaudhuri, K. S.) A bioeconomic model of nonselective harvesting of two competing fish species. (English summary) **2005f:91107**
Rettieva, Anna N. *see* **Mazalov, Vladimir V., 2005a:91103**
Sandal, Leif K. *see* **McDonald, A. David et al., 2005k:91240**
Seegmuller, Thomas (*with* Verchère, Alban) Pollution as a source of endogenous fluctuations and periodic welfare inequality in OLG economies. (English summary) **2005f:91108**
Soubeyran, Antoine *see* **Long, Ngo Van, 2005i:91091**
Stainback, G. Andrew (*with* Alavalapati, Janaki R. R.) Modeling catastrophic risk in economic analysis of forest carbon sequestration. (English summary)
Steinshamn, Stein-Ivar *see* **McDonald, A. David et al., 2005k:91240**
Stollery, Kenneth R. Climate change and optimal rotation in a flammable forest. (English summary)
Suárez Fernández, Antonio *see* **Delgado Pineda, Miguel et al., 2005b:91180**
Suzuki, Motoyuki Indicators for sustainable society. (Japanese. English and Japanese summaries)
Teichmann, Josef A note on nonaffine solutions of term structure equations with applications to power exchanges. (English summary) **2005h:91182**
Timku, S. M. *see* **Grigorkīv, V. S. et al., 2005h:91181**
Vassiliadis, Vassilios *see* **Burridge, Robert et al., 2005a:91101**
Verchère, Alban *see* **Seegmuller, Thomas, 2005f:91108**
Vetter, Henrik Pollution taxes for monopolistically competitive firms. (English summary)
Wang, Mian Sen *see* **Luo, Zhi Xue et al., 2005b:91182**
Withagen, Cees *see* **Groot, Fons et al., 2005b:91181**
Yakutova, O. Yu. *see* **Grigorkīv, V. S. et al., 2005h:91181**
Yang, Rui-Cheng (*with* Liu, Kun Hui) Optimal singular stochastic problem on harvesting system. (English summary) **2005j:91061**
Yu, Run (*with* Leung, PingSun) Optimal harvesting strategies for a multi-cycle and multi-pond shrimp operation: A practical network model. (English summary)
de Zeeuw, Aart *see* **Groot, Fons et al., 2005b:91181**

Items with secondary classifications in 91B76

Abbad, Mohammed (*with* Abdallaoui, Ghali M.; Benomar, Ghizlane) Utilisation de la programmation dynamique dans la modélisation de la pêcherie de la sardine au Maroc. (English and French summaries) [Using dynamic programming to model the Moroccan sardine fishery system]
Abdallaoui, Ghali M. *see* **Abbad, Mohammed et al.**
Alvarez, Luis H. R. Stochastic forest stand value and optimal timber harvesting. (English summary) **2005b:93159**
Amacher, Gregory S. (*with* Koskela, Erkki; Ollikainen, Markku) Forest rotations and stand interdependency: ownership structure and timing of decisions. (English summary) **2005b:91057**
Antoci, Angelo (*with* Brugnano, Luigi; Galeotti, Marcello) Sustainability, indeterminacy and oscillations in a growth model with environmental assets. (English summary) **2005b:91159**
Bai, Ling (*with* Wang, Ke[1]) Logistic model with spatial nonhomogeneous diffusion and its optimal harvest policy. (Chinese. English and Chinese summaries)
Beladi, Hamid (*with* Oladi, Reza) Foreign investment policies and environment. (English summary)
Belmiloudi, Aziz Optimal control problems of nonlinear degenerate parabolic differential systems with logistic time-varying delays. (English summary) **2005k:49010**
Benomar, Ghizlane *see* **Abbad, Mohammed et al.**
Bernhard, Pierre (*with* Deissenberg, Christophe) Introduction: a special issue dedicated to George Leitmann.
Bhattacharya, D. K. Toxicity in plants and optimal growth under fertilizer. (English summary) **2005d:92011**
Breton, Michèle (*with* Zaccour, Georges; Zahaf, Mehdi) A differential game of joint implementation of environmental projects. (English and Chinese summaries)
Brugnano, Luigi *see* **Antoci, Angelo et al., 2005b:91159**
Chen, Di-lan (*with* Sun, Ji-tao) Impulsive control of a fishery system. (English summary) **2005c:34012**
Chiarella, Carl *see* **Szidarovszky, Ferenc et al., 2005e:91033**
Deissenberg, Christophe *see* **Bernhard, Pierre**
Dempe, Stephan (*with* Kalashnikov, Vyacheslav Vital'evich) A mixed-discrete bilevel programming problem. (English summary) **2005e:91042**
Denault, Michel (*with* Goffin, Jean-Louis) Solving variational inequalities with a quadratic cut method: a primal-dual, Jacobian-free approach. (English summary) **2005b:90143**
Engel, Andrew *see* **Szidarovszky, Ferenc et al., 2005e:91033**
Fan, Meng[1] *see* **Zhang, Wei Peng**[1] **et al.**
Fister, K. Renee (*with* Lenhart, Suzanne) Optimal control of a competitive system with age-structure. (English summary) **2005d:49042**
Francis, Peter J. Optimal tax-subsidy combinations for the flu season. (English summary) **2005b:91164**
Fredj, Karima (*with* Martín-Herrán, Guiomar; Zaccour, Georges) Slowing deforestation pace through subsidies: a differential game. (English summary) **2005m:91032**
Galeotti, Marcello *see* **Antoci, Angelo et al., 2005b:91159**
Goffin, Jean-Louis *see* **Denault, Michel, 2005b:90143**
Greiner, Alfred Fiscal policy in an endogenous growth model with public capital and pollution. (English summary) **2005k:91216**
Grigorkīv, V. S. (*with* Yakutova, O. Yu.; Timku, S. M.) Simulation of economic dynamics under ecological balance conditions. (Russian. English and Ukrainian summaries) **2005m:91137**
Grömwe-Kuska, Nicole (*with* Kiwiel, Krzysztof C.; Nowak, Matthias P.; Römisch, Werner; Wegner, Isabel) Power management in a hydro-thermal system under uncertainty by Lagrangian relaxation. (English summary) **2005c:90058**
Haurie, Alain (*with* Zaccour, Georges) *S*-adapted equilibrium in games played over event trees: an overview. (English summary) **2005h:91051**
Hayashi, Kiyotada A multi-objective programming approach for evaluating agri-environmental policy. (English summary) (*see* **2005b:90008**)
He, Ze Rong (*with* Wang, Mian Sen; Wang, Feng) Optimal dynamical balance harvesting for a class of renewable resources system. (Chinese. English and Chinese summaries) **2005b:91093**
Joern, Anthony *see* **Ledder, Glenn et al., 2005c:92044**
Kalashnikov, Vyacheslav Vital'evich *see* **Dempe, Stephan, 2005e:91042**
Kar, Tapan Kumar[2] Management of a fishery based on continuous fishing effort. (English summary) **2005b:92064**
Kaspi, Moshe *see* **Shabtay, Dvir, 2005b:90053**
Kiwiel, Krzysztof C. *see* **Grömwe-Kuska, Nicole et al., 2005c:90058**
Koskela, Erkki *see* **Amacher, Gregory S. et al., 2005b:91057**
Krabs, Werner (*with* Pickl, Stefan Wolfgang) A game-theoretic treatment of a time-discrete emission reduction model. (English summary) **2005c:91027**
Ledder, Glenn (*with* Logan, J. David; Joern, Anthony) Dynamic energy budget models with size-dependent hazard rates. (English summary) **2005c:92044**
(Leitmann, George) *see* **Bernhard, Pierre**
Lenhart, Suzanne *see* **Fister, K. Renee, 2005d:49042**
Li, Yu Zeng *see* **Wang, Xian et al.**

Lindroos, Marko Restricted coalitions in the management of regional fisheries organizations. (English summary) **2005b:91031**
Logan, J. David *see* **Ledder, Glenn et al., 2005c:92044**
Martín-Herrán, Guiomar *see* **Fredj, Karima et al., 2005m:91032**
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Ollikainen, Markku *see* **Amacher, Gregory S. et al., 2005b:91057**
Pickl, Stefan Wolfgang *see* **Krabs, Werner, 2005c:91027**
Rincón-Zapatero, J. P. Characterization of Markovian equilibria in a class of differential games. (English summary) **2005a:91020**
Römisch, Werner *see* **Gröwe-Kuska, Nicole et al., 2005c:90058**
Rynkiewicz, Joseph Introduction to multilayer perceptron and hybrid hidden Markov models. (English summary) **2005b:91188**
Sandal, Leif K. (*with* Steinshamn, Stein-Ivar) Dynamic Cournot-competitive harvesting of a common pool resource. (English summary) **2005g:91048**
Schnute, Jon T. Mathematics and fisheries: match or mismatch? (English summary)
Shabtay, Dvir (*with* Kaspi, Moshe) Minimizing the total weighted flow time in a single machine with controllable processing times. (English summary) **2005b:90053**
(Smirnov, A. I.) *see* **Mathematical models in economics and ecology**
Steinshamn, Stein-Ivar *see* **Sandal, Leif K., 2005g:91048**
Sun, Ji-tao *see* **Chen, Di-lan, 2005c:34012**
Szidarovszky, Ferenc (*with* Engel, Andrew; Chiarella, Carl) A game theoretical model of international fishing with time delay. (English summary) **2005e:91033**
Timku, S. M. *see* **Grigorkīv, V. S. et al., 2005m:91137**
Wang, Feng *see* **He, Ze Rong et al., 2005b:91093**
Wang, Jing[13] (*with* Wang, Ke[1]) Optimal control of harvesting for single population. (English summary)
— (*with* Wang, Ke[1]) Optimal harvesting policy for single population with stage structure. (English summary) **2005f:92025**
Wang, Ke[1] *see* **Wang, Jing[13], 2005f:92025**; **Wei, Feng Ying[2]** *and* **Bai, Ling**
Wang, Mian Sen *see* **He, Ze Rong et al., 2005b:91093**
Wang, Xian (*with* Li, Yu Zeng; Zhang, Shao Hua) Application of nonlinear complementarity methods to equilibrium analysis of electricity markets. (Chinese. English and Chinese summaries)
Wegner, Isabel *see* **Gröwe-Kuska, Nicole et al., 2005c:90058**
Wei, Feng Ying[2] (*with* Wang, Ke[1]) Economic harvesting model with variable price and cost for populations with Smith growth and Cui-Lawson growth. (Chinese. English and Chinese summaries)
Wets, Roger J.-B. Stochastic programming models: wait-and-see versus here-and-now. (English summary) **2005a:90116**
Wirl, Franz International greenhouse gas emissions when global warming is a stochastic process. (English summary) **2005h:91033**
Wiszniewska-Matyszkiel, Agnieszka A dynamic game with continuum of players and its counterpart with finitely many players. (English summary) (*see* **2005g:91009**)
Yakutova, O. Yu. *see* **Grigorkīv, V. S. et al., 2005m:91137**
Yang, Zili A pseudo "folk" theorem in the strategic provision of stock externalities. (English summary) **2005a:91093**
Ye, Dan *see* **Zhang, Wei Peng[1] et al.**
Yu, Zhihao Environmental protection: a theory of direct and indirect competition for political influence. (English summary) **2005h:91057**
Zaccour, Georges *see* **Haurie, Alain, 2005h:91051**; **Fredj, Karima et al., 2005m:91032** *and* **Breton, Michèle et al.**
Zahaf, Mehdi *see* **Breton, Michèle et al.**
Zhang, Shao Hua *see* **Wang, Xian et al.**
Zhang, Wei Peng[1] (*with* Fan, Meng[1]; Ye, Dan) Periodicity of a class of mathematical models arising in bioeconomics. (Chinese. English and Chinese summaries)

Items listed otherwise than by author

Khimki ★ Математические модели в экономике и экологии. (Russian) [Mathematical models in economics and ecology]
Mathematical models in economics and ecology ★ Математические модели в экономике и экологии. (Russian) [Mathematical models in economics and ecology]

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Berrebi, Z. M. (*with* Silber, Jacques) On rightist, centrist and leftist generalizations of the Gini index. (English summary) **2005f:91109**
Bishop, John A. (*with* Luo, Feijun; Zeager, Lester A.; Chow, K. Victor) Changes in economic advantage by national origin after German unification. (English summary)
Chow, K. Victor *see* **Bishop, John A. et al.**
Deutsch, Joseph (*with* Silber, Jacques) Dagum's decomposition of the Gini ratio and the contribution of population subgroups to the mean difference of the logarithms of incomes.
Duclos, Jean-Yves (*with* Échevin, Damien) Bi-polarization comparisons. (English summary)
Échevin, Damien *see* **Duclos, Jean-Yves**
Frosini, Benito V. Decomposition of inequality measures based on aggregate units. (English summary) **2005g:91154**
Gu, Wei *see* **Wang, Li Li et al.**
Hallerbach, Winfried G. An alternative decomposition of the Fisher index. (English summary) **2005h:91183**
Khovanov, N. V. (*with* Kolari, James W.; Sokolov, Mikhail V.) Computing currency invariant indices with an application to minimum variance currency baskets. (English summary) **2005d:91086**
— *see also* **Siegmann, Arjen, 2005b:91183**
Kolari, James W. *see* **Siegmann, Arjen, 2005b:91183** *and* **Khovanov, N. V. et al., 2005d:91086**
Lovell, C. A. Knox *see* **Pastor, Jesús T.**
Luo, Feijun *see* **Bishop, John A. et al.**
Maasoumi, Esfandiar *see* **Pasha, Einollah et al.**
Maslov, V. P. Axioms of nonlinear averaging in financial mathematics and an analogue of phase transition. (Russian) **2005e:91132**
Pasha, Einollah (*with* Zendedel, Ahmed; Maasoumi, Esfandiar) A multidimensional analysis of inequality in Iran. (English summary)
Pastor, Jesús T. (*with* Lovell, C. A. Knox) A global Malmquist productivity index. (English summary)
Siaens, Corinne (*with* Wodon, Quentin) Food subsidies and consumption inequality in Mexico. (English summary)
Siegmann, Arjen A stable currency numeraire? Comment on: "Computing currency invariant indices with an application to minimum variance currency baskets" [J. Econom. Dynam. Control **28** (2004), no. 8, 1481–1504; MR2041411 (2005d:91086)] by N. V. Hovanov, J. W. Kolari and M. V. Sokolov. (English summary) **2005b:91183**
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Wan, Jian Ping *see* **Wang, Li Li et al.**
Wang, Li Li (*with* Wan, Jian Ping; Gu, Wei) Application of change point analysis on residents' deposit and income. (Chinese. English and Chinese summaries)
Wodon, Quentin *see* **Siaens, Corinne**
Yang, Joon-Mo A note on the comparability of business survey indices. (English summary) **2005i:91092**
Zeager, Lester A. *see* **Bishop, John A. et al.**
Zendedel, Ahmed *see* **Pasha, Einollah et al.**

Items with secondary classifications in 91B82

Amendola, Alessandra (*with* Storti, Giuseppe) Non-linear dynamics in the industrial production index. (English summary) (*see* **2005f:62007**)
Anitori, Paola (*with* De Gregorio, Carlo) A proposal of classification of wholesale trade enterprises on the base of structural and performance indicators. (English summary) (*see* **2005f:62007**)
Balk, Bert M. Divisia price and quantity indices: 80 years after. (English summary)
Ben-Gal, Irad *see* **Shmilovici, Armin**
Chernozhukov, Victor (*with* Hansen, Christian) An IV model of quantile treatment effects. (English summary) **2005k:62085**
De Gregorio, Carlo *see* **Anitori, Paola, (2005f:62007)**
Dhaene, Jan *see* **Goovaerts, Marc J. et al., 2005b:91142**
Ebert, Udo Social welfare, inequality, and poverty when needs differ. (English summary) **2005h:91068**
Egghe, L. (*with* Rousseau, R.) Comparing partial and truncated conglomerates from a concentration theoretic point of view. (English summary) **2005j:62010**
Fernández Morales, Antonio Inequality and poverty in rural and urban areas in Spain: a parametric focus. (Spanish. Spanish summary)
— *see also* **Lacomba Arias, Beatriz et al.**
Fostel, A. (*with* Scarf, H. E.; Todd, M. J.) Two new proofs of Afriat's theorem. (English summary) **2005b:91081**
Gaĭvoronskiĭ, A. A. (*with* Krylov, Sergiy; van der Wijst, Nico) Optimal portfolio selection and dynamic benchmark tracking. (English summary) **2005m:91097**
Gil Álvarez, Pedro Ángel *see* **Miranda, Pedro et al., 2005k:28008**
Goovaerts, Marc J. (*with* Kaas, Rob; Dhaene, Jan; Tang, Qi He) Some new classes of consistent risk measures. (English summary) **2005b:91142**
Grabisch, Michel *see* **Miranda, Pedro et al., 2005k:28008**
Gu, Wei (*with* Wan, Jian Ping; Wang, Li Li) The theory of VaR and its applications in weekend effects on stock returns. (Chinese. English and Chinese summaries) **2005h:62285**
Hansen, Christian *see* **Chernozhukov, Victor, 2005k:62085**
Hanson, Floyd B. (*with* Westman, John J.; Zhu, Zongwu) Multinomial maximum likelihood estimation of market parameters for stock jump-diffusion models. (English summary) **2005g:60131**
Kaas, Rob *see* **Goovaerts, Marc J. et al., 2005b:91142**
Kelejian, Harry H. (*with* Prucha, Ingmar R.) Estimation of simultaneous systems of spatially interrelated cross sectional equations. (English summary) **2005j:62051**
Kleiber, Christian (*with* Krämer, Walter) Efficiency, equity, and generalized Lorenz dominance. (English summary) **2005f:91045**
Krämer, Walter *see* **Kleiber, Christian, 2005f:91045**
Krylov, Sergiy *see* **Gaĭvoronskiĭ, A. A. et al., 2005m:91097**
Lacomba Arias, Beatriz (*with* Fernández Morales, Antonio; Martín Reyes, Guillermina) Socioeconomic determinants of poverty and the persistence of territorial inequalities: a dynamical analysis for Spain. (Spanish)
Maniquet, François (*with* Sprumont, Yves) Welfare egalitarianism in non-rival environments. (English summary) **2005j:91027**
Martín Reyes, Guillermina *see* **Lacomba Arias, Beatriz et al.**
Meddahi, Nour (*with* Renault, Eric) Temporal aggregation of volatility models. (English summary) **2005a:62228**
Mira, Antonietta (*with* Tenconi, Paolo) Bayesian estimate of default probabilities via MCMC with delayed rejection. (English summary) (*see* **2005f:60008**)
Miranda, Pedro (*with* Grabisch, Michel; Gil Álvarez, Pedro Ángel) Axiomatic structure of k-additive capacities. (English summary) **2005k:28008**
Platen, Eckhard Modeling the volatility and expected value of a diversified world index. (English summary) **2005b:91086**
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Ruppert, David ★ Statistics and finance. **2005a:62006**
Ryu, Hang Keun (*with* Slottje, Daniel J.) Univariate distribution functions and summarizing measures: income distributions from a given Gini measure. (English summary)

Sakamaki, Yoshikazu Improvement proposal of consumer's choice behavior model with consideration set. (English summary) **2005j:91054**
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Unayama, Takashi Upward bias in the consumer price index under the zero-inflation economy. (English summary)
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van den Berg, Jan (*with* Kaymak, Uzay; van den Bergh, Willem-Max) Financial markets analysis by using a probabilistic fuzzy modelling approach. (English summary) **2005b:91184**
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Brzozowska-Rup, Katarzyna (*with* Orłowski, Arkadiusz) Application of bootstrap to detecting chaos in financial time series. (English summary) **2005j:91062**
Burda, Zdzisław (*with* Jurkiewicz, Jerzy Władysław; Nowak, Maciej A.; Papp, Gabor; Zahed, Ismail) Free Lévy matrices and financial correlations. (English summary) **2005f:91110**
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Chen, Li Hui *see* **Lee, Chuan et al.**
Chen, Max (*with* Hong, Yongmiao) Has Chinese stock market become efficient? Evidence from a new approach. (English summary) (*see* **2005c:00015**)
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Dufrenot, Gilles (*with* Guégan, Dominique; Peguin-Feissolle, Anne) Modelling squared returns using a SETAR model with long-memory dynamics. (English summary)
Gao, Jian Wei (*with* Ding, Ke Quan) The actuarial present value model of life annuity based on generalized conditional AR(p) interest rate. (Chinese. English and Chinese summaries)
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Guerra, Maria Letizia (*with* Sorini, Laerte) Testing robustness in calibration of stochastic volatility models. (English summary)
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Kim, Kyungsik (*with* Yoon, Seong-Min; Kim, Yup) Herd behaviors in the stock and foreign exchange markets. (English summary)
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Klein, L. R. Econometric modeling at mixed frequencies. (English and Russian summaries) **2005j:91063**
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Kokoszka, P. S. (*with* Parfionovas, Andrejus) Bootstrap unit root tests for heavy-tailed time series. (English summary) (*see* **2005b:91009**)
Kwapień, J. (*with* Drożdż, S.; Speth, J.) Time scales involved in emergent market coherence. (English summary)
Lee, Chuan (*with* Lin, Chin-Tsai; Chen, Li Hui) Accuracy analysis of the Grey Markov forecasting model. (English summary)
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Li, Ying *see* **Yuan, Xiu Gui**
Lillo, Fabrizio (*with* Mantegna, Rosario N.) Modeling the dynamics of a financial index after a crash. (*see* **2005m:91006**)
Lin, Chin-Tsai *see* **Lee, Chuan et al.**
Liu, Xiao Mao (*with* Li, Chu Lin) A model of nonsynchronous trading and its return analysis. (Chinese. English and Chinese summaries)
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Takayasu, Misako *see* **Mizuno, Takayuki et al.**
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Items listed otherwise than by author

Errata:

"A computational approach to liquidity-constrained firms over an infinite horizon" Erratum to: "A computational approach to liquidity-constrained firms over an infinite horizon" [J. Econom. Dynam. Control **28** (2003), no. 1, 189–205; MR2004650 (2004i:91166)] by M. Ono. **2005a:91104**

Items with secondary classifications in 91B84

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Alvarez, Javier Dynamics and seasonality in quarterly panel data: an analysis of earnings mobility in Spain. (English summary)

Alvargonzález-Rodríguez, Mercedes (*with* López-Menéndez, Ana Jesus; Pérez, Rigoberto) The double quadratic uncertainty measures and their economic applications. (*see* **2005i:62007**)

Anento, Napoleón *see* **Perelló, Josep et al.**

Angle, John The dynamics of the distribution of wage and salary income in the non-metropolitan U.S. (English summary)

Ango Nzé, Patrick (*with* Doukhan, Paul) Weak dependence: models and applications to econometrics. (English summary) **2005j:62173**

Armano, G. (*with* Marchesi, Michele; Murru, A.) A hybrid genetic-neural architecture for stock indexes forecasting. (English summary)

Aucremanne, L. (*with* Brys, G.; Hubert, Mia; Rousseeuw, Peter J.; Struyf, Anja) A study of Belgian inflation, relative prices and nominal rigidities using new robust measures of skewness and tail weight. (English summary) (*see* **2005c:62006**)

Balbas de la Corte, Alejandro (*with* Romera, Rosario; Ruiz, Esther) An overview of probabilistic and time series models in finance. (English summary) (*see* **2005f:60007**)

Banerjee, Anindya[1] (*with* Marcellino, Massimiliano; Osbat, Chiara) Some cautions on the use of panel methods for integrated series of macroeconomic data. (English summary)

Barndorff-Nielsen, Ole E. (*with* Nielsen, Bent; Shephard, Neil; Ysusi, Carla) Measuring and forecasting financial variability using realised variance. (English summary) (*see* **2005c:62005**)

del Barrio Castro, Tomas (*with* Osborn, Denise R.) The consequences of seasonal adjustment for periodic autoregressive processes. (English summary)

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Bauwens, Luc (*with* Bos, Charles S.; van Dijk, Herman K.; van Oest, Rutger D.) Adaptive radial-based direction sampling: some flexible and robust Monte Carlo integration methods. (English summary)

Bec, Frédérique (*with* Rahbek, Anders) Vector equilibrium correction models with non-linear discontinuous adjustments. (English summary) **2005k:62197**

— (*with* Ben Salem, Mélika; Carrasco, Marine) Tests for unit-root versus threshold specification with an application to the purchasing power parity relationship. (English summary) **2005k:62198**

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Berkes, István (*with* Horváth, Lajos; Kokoszka, P. S.) Near-integrated GARCH sequences. (English summary) **2005k:62201**

Bhattacharya, Rabi (*with* Majumdar, Mukul) Random dynamical systems: a review. (English summary) **2005e:37112**

Bianchi, Sergio Pathwise identification of the memory function of multifractional Brownian motion with application to finance. (English summary) **2005k:60118**

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Brännäs, Eva *see* **Brännäs, Kurt**

Brännäs, Kurt (*with* Brännäs, Eva) Conditional heteroskedasticity in count data regression: self-feeding activity in fish. (English summary)

Bruinshoofd, Allard (*with* Candelon, Bertrand) Nonlinear monetary policy in Europe: fact or myth? (English summary)

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Buch, Claudia M. (*with* Doepke, Joerg; Pierdzioch, Christian) Business cycle volatility in Germany. (English summary)

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Capobianco, Enrico Effective decorrelation and space dimensionality reduction of multiscaling volatility. (English summary)

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Castelli, G. *see* **Carbone, Anna et al., 2005h:62235**

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Charemza, Wojciech W. (*with* Lifshits, Mikhail A.; Makarova, Svetlana) Conditional testing for unit-root bilinearity in financial time series: some theoretical and empirical results. (English summary) **2005h:62236**

Charles, Amélie (*with* Darné, Olivier) Outliers and GARCH models in financial data. (English summary)

Cline, Daren B. H. (*with* Pu, Huo Hui Min) Stability and the Lyapounov exponent of threshold AR-ARCH models. (English summary) **2005h:62237**

Conrad, Christian (*with* Karanasos, Menelaos) The impulse response weights of long memory ACD models. (English summary)

Coolen, A. C. C. ★ The mathematical theory of minority games. **2005k:91001**

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Delli Gatti, Domenico (*with* Di Guilmi, Corrado; Gaffeo, Edoardo; Gallegati, Mauro) Bankruptcy as an exit mechanism for systems with a variable number of components. (English summary)

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Diks, Cees The correlation dimension of returns with stochastic volatility. (English summary) **2005b:62213**

— (*with* van der Weide, Roy) Herding, a-synchronous updating and heterogeneity in memory in a CBS. (English summary)

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Feldmann, D. (*with* Härdle, Wolfgang K.; Hafner, Christian M.; Hoffmann, Marc; Lepskiĭ, O. V.; Tsybakov, A. B.) Testing linearity in an AR errors-in-variables model with application to stochastic volatility. (English summary) **2005b:62083**

Ferenstein, Elżbieta Z. (*with* Gąsowski, Mirosław) Modelling stock returns with AR-GARCH processes. (English and Catalan summaries)

Fernández Llana, Carmen (*with* León, Carmelo J.; Steel, Mark F. J.; Vázquez-Polo, Francisco José) Bayesian analysis of interval data contingent valuation models and pricing policies. (English summary)

Figueiredo, Annibal (*with* Gleria, Iram; Matsushita, Raul; Da Silva, Sergio) Lévy flights, autocorrelation, and slow convergence. (English summary) **2005d:82110**

Fotakis, Dimitris A. (*with* Kontogiannis, Spyros; Koutsoupias, Elias; Mavronicolas, Marios; Spirakis, Paul G.) The structure and complexity of Nash equilibria for a selfish routing game. (English summary) (*see* **2005a:68008**)

Franke, Jürgen (*with* Härdle, Wolfgang K.; Hafner, Christian M.) ★ Statistics of financial markets. **2005g:91002**

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Hautsch, Nikolaus ★ Modelling irregularly spaced financial data. **2005c:91004**

Hayford, M. D. (*with* Malliaris, A. G.) How did the Fed react to the 1990s stock market bubble? Evidence from an extended Taylor rule. (English summary)

Healy, J. V. (*with* Dixon, Maurice; Read, B. J.; Cai, F. F.) Confidence limits for data mining models of options prices. (English summary)

Heathcote, Christopher R. (*with* Higgins, Tim) Regression modelling of mortality surfaces and the deceleration of mortality. (English summary)

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Kleibergen, Frank Invariant Bayesian inference in regression models that is robust against the Jeffreys-Lindley's paradox. (English summary) **2005f:62012**

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— (*with* Lindner, Alexander; Maller, Ross A.) A continuous-time GARCH process driven by a Lévy process: stationarity and second-order behaviour. (English summary) **2005g:62159**

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volatility models. (English summary) **2005j:62183**
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Koutsoupias, Elias *see* **Fotakis, Dimitris A. et al., (2005a:68008)**
Krivoruchenko, M. I. (*with* Alessio, E.; Frappietro, V.; Streckert, L. J.) Modeling stylized facts for financial time series. (English summary) **2005h:62248**
Lee, Jin[1] Estimating memory parameter in the US inflation rate. (English summary)
Lee, Oesook (*with* Shin, Dong Wan) Strict stationarity and mixing properties of asymmetric power GARCH models allowing a signed volatility. (English summary) **2005f:62141**
Lee, Sangyeol (*with* Taniguchi, Masanobu) Asymptotic theory for ARCH-SM models: LAN and residual empirical processes. (English summary) **2005m:62165**
León, Carmelo J. *see* **Fernández Llana, Carmen et al.**
Lepskiĭ, O. V. *see* **Feldmann, D. et al., 2005b:62083**
Li, San Ping *see* **Xue, Hong-gang et al.**
Li, Zhu Yu *see* **Lu, Wan Bo, 2005m:62080**
Lieberman, Offer (*with* Rousseau, Judith; Zucker, David M.) Valid asymptotic expansions for the maximum likelihood estimator of the parameter of a stationary, Gaussian, strongly dependent process. (English summary) **2005a:62044**
Lifshits, Mikhail A. *see* **Charemza, Wojciech W. et al., 2005h:62236**
Lin, Chin-Tsai *see* **Tu, Yu-Chen et al.**
Lindner, Alexander *see* **Klüppelberg, Claudia et al., 2005g:62159**
Linton, Oliver B. (*with* Mammen, Enno) Estimating semiparametric ARCH(∞) models by kernel smoothing methods. (English summary) **2005m:62166**
— *see also* **Kim, Woocheol, 2005j:62182**
Litvin, Vladimir A. Multiscaling behavior of transition economies before and after 1998 Russian financial crisis. (English summary)
López-Menéndez, Ana Jesus *see* **Alvargonzález-Rodríguez, Mercedes et al., (2005i:62007)**
Lu, Wan Bo (*with* Li, Zhu Yu) Nonparametric kernel regression estimation of volatility of stock return and its application to Chinese stock markets. (Chinese. English and Chinese summaries) **2005m:62080**
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Makarova, Svetlana *see* **Charemza, Wojciech W. et al., 2005h:62236**
Makowiec, Danuta Deficit in small returns on inefficient market. (English summary)
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Marcellino, Massimiliano *see* **Banerjee, Anindya[1] et al.**
Marchesi, Michele *see* **Armano, G. et al.**
Marmol, Francesc (*with* Velasco, Carlos) Consistent testing of cointegrating relationships. (English summary) **2005e:62125**
Martins, Luis F. *see* **Gabriel, Vasco J.**
Masoliver, Jaume *see* **Perelló, Josep et al.**
Matsushita, Raul *see* **Figueiredo, Annibal et al., 2005d:82110**
Mavronicolas, Marios *see* **Fotakis, Dimitris A. et al., (2005a:68008)**
Merkwirth, Christian *see* **Wichard, Jörg D. et al.**
Miao, Bao Shan *see* **Xue, Hong-gang et al.**
Miyazaki, Koichi Naive parameter estimation technique of equity return models based on short and long memory processes. (Japanese. English summary) **2005a:62061**
Moon, Hyungsik Roger (*with* Phillips, Peter C. B.) GMM estimation of autoregressive roots near unity with panel data. (English summary) **2005h:62253**
Moon, Myung Sang *see* **Oh, Kyong Joo et al.**
Mouchart, Michel (*with* Scheihing, Eliana) Bayesian evaluation of non-admissible conditioning. (English summary)
Müller, Peter[2] *see* **Stroud, Jonathan R. et al., (2005c:62005)**
Murphy, Frederic H. (*with* Sen, Suvrajeet) Qualitative implications of uncertainty in economic equilibrium models. **2005a:91081**
Murru, A. *see* **Armano, G. et al.**
Muzy, Jean-François *see* **Bouchaud, Jean-Philippe, (2005a:00023)**
Nakamura, Emi Inflation forecasting using a neural network. (English summary)
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Núñez Velázquez, José Javier *see* **Pena Trapero, J. B.**
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Ogaki, Masao *see* **Zhang, Qiang[6]**
Ogorzałek, Maciej *see* **Wichard, Jörg D. et al.**
Oh, Kyong Joo (*with* Roh, Tae Hyup; Moon, Myung Sang) Developing time-based clustering neural networks to use change-point detection: application to financial time series. (English summary)
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Osborn, Denise R. *see* **del Barrio Castro, Tomas**
Pan, Jia Zhu (*with* Yu, Bosco W. T.; Pang, Wan-Kai) How does innovation's tail risk determine marginal tail risk of a stationary financial time series? (English summary) **2005h:62255**
Pang, Wan-Kai *see* **Pan, Jia Zhu et al., 2005h:62255**
Panopoulou, Ekaterini (*with* Pittis, Nikitas) A comparison of autoregressive distributed lag and dynamic OLS cointegration estimators in the case of a serially correlated cointegration error. (English summary) **2005k:62215**
Peinke, J. (*with* Böttcher, Frank; Barth, St.) Anomalous statistics in turbulence, financial markets and other complex systems. (English summary) **2005b:91128**
Pena Trapero, J. B. (*with* Núñez Velázquez, José Javier) Mobility in personal income distribution in Spain. (Spanish. English summary)
Perelló, Josep (*with* Masoliver, Jaume; Anento, Napoleón) A comparison between several correlated stochastic volatility models. (English summary)
Pérez, Rigoberto *see* **Alvargonzález-Rodríguez, Mercedes et al., (2005i:62007)**
Pergamenshchikov, Sergeĭ *see* **Klüppelberg, Claudia, 2005d:62144**
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Polson, Nicholas G. *see* **Stroud, Jonathan R. et al., (2005c:62005)**
Potter, Simon *see* **Koop, Gary**
Precup, Ovidiu V. (*with* Iori, Giulia) A comparison of high-frequency cross-correlation measures. (English summary) **2005h:62256**
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Read, B. J. *see* **Healy, J. V. et al.**
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Romera, Rosario *see* **Balbas de la Corte, Alejandro et al., (2005f:60007)**
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Rotundo, G. Neural networks for large financial crashes forecast. (English summary) **2005g:91109**
Rousseau, Judith *see* **Lieberman, Offer et al., 2005a:62044**
Rousseeuw, Peter J. *see* **Aucremanne, L. et al., (2005c:62006)**
Ruiz, Esther *see* **Balbas de la Corte, Alejandro et al., (2005f:60007)**
Ruppert, David ★ Statistics and finance. **2005a:62006**
Sabatelli, Lorenzo (*with* Richmond, Peter) A consensus-based dynamics for market volumes. (English summary) **2005k:91207**
Sánchez González, C. (*with* García Muñoz, T. M.) Linear estimation for discrete systems with uncertain observations: an application to the correction of declared incomes in inquiry. (English summary) **2005f:93163**
Scheihing, Eliana *see* **Mouchart, Michel**
Schennach, Susanne M. Estimation of nonlinear models with measurement error. (English summary) **2005a:62155**
Schmid, Wolfgang P. (*with* Tzotchev, Dobromir) Statistical surveillance of the parameters of a one-factor Cox-Ingersoll-Ross model. (English summary) **2005c:62190**
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Sentana, Enrique Factor representing portfolios in large asset markets. (English summary) **2005a:62232**
Sha, Yan-li *see* **Zhuang, Xin-tian et al., 2005f:91083**
Shao, Bin (*with* Ding, Juan) Monte Carlo simulation method for pricing American-style Asian option in the GARCH option pricing model. (Chinese. English and Chinese summaries)
Shephard, Neil *see* **Barndorff-Nielsen, Ole E. et al., (2005c:62005)**
Shi, Xiuhong *see* **Kobayashi, Masahito, 2005j:62183**
Shin, Dong Wan *see* **Lee, Oesook, 2005f:62141**
Siu, Tak Kuen (*with* Tong, Howell; Yang, Hailiang) On pricing derivatives under GARCH models: a dynamic Gerber-Shiu approach. (English summary)
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Storti, Giuseppe (*with* Vitale, Cosimo) BL-GARCH models and asymmetries in volatility. (English summary) **2005b:62192**
Strachan, Rodney W. (*with* Inder, Brett) Bayesian analysis of the error correction model. (English summary)
Streckert, L. J. *see* **Krivoruchenko, M. I. et al., 2005h:62248**
Stroud, Jonathan R. (*with* Polson, Nicholas G.; Müller, Peter[2]) Practical filtering for stochastic volatility models. (English summary) (*see* **2005c:62005**)
Struyf, Anja *see* **Aucremanne, L. et al., (2005c:62006)**
Sun, Yixiao Estimation of the long-run average relationship in nonstationary panel time series. (English summary) **2005h:62260**
Takimoto, Taro (*with* Hosoya, Yuzo) A three-step procedure for estimating and testing cointegrated ARMAX models. (English summary)
Taniguchi, Masanobu *see* **Lee, Sangyeol, 2005m:62165**
Teocchi, Mariangela *see* **Giacometti, Rosella, 2005g:91101**
Tong, Howell *see* **Siu, Tak Kuen et al.**
Tsybakov, A. B. *see* **Feldmann, D. et al., 2005b:62083**
Tu, Yu-Chen (*with* Lin, Chin-Tsai; Yeh, Tzu-Chia) A study of credit card market in Taiwan. (English summary)
Tzotchev, Dobromir *see* **Schmid, Wolfgang P., 2005c:62190**
Valkanov, Rossen Functional central limit theorem approximations and the distribution of the Dickey-Fuller test with strongly heteroskedastic data. (English summary)
Vázquez-Polo, Francisco José *see* **Fernández Llana, Carmen et al.**
Velasco, Carlos *see* **Marmol, Francesc, 2005e:62125**
Vitale, Cosimo *see* **Storti, Giuseppe, 2005b:62192**
Walker, Agnes E. Modelling health inequalities using dynamic microsimulation: statistical issues and future scope. (English summary) (*see* **2005a:62014**)
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Wang, Jeffrey *see* **Zivot, Eric et al., (2005c:62005)**
Wang, Li Li *see* **Gu, Wei et al.**
van der Weide, Roy *see* **Diks, Cees**
White, Halbert ★ New perspectives in econometric theory.
Wichard, Jörg D. (*with* Merkwirth, Christian; Ogorzałek, Maciej) Detecting correlation in stock market. (English summary)
Winkelmann, Rainer ★ Econometric analysis of count data.
Wong, Wing-Keung (*with* Chan, Raymond H.) On the estimation of cost of capital and its reliability. (English summary) **2005h:62288**
Xu, Cheng Xian *see* **Xue, Hong-gang et al.**

Xue, Hong-gang (*with* Xu, Cheng Xian; Li, San Ping; Miao, Bao Shan) VaR method and its empirical research in financial risk management. (Chinese. English and Chinese summaries)
Yang, Hailiang *see* **Siu, Tak Kuen et al.**
Yeh, Tzu-Chia *see* **Tu, Yu-Chen et al.**
Yoon, Gawon On the existence of expected utility with CRRA under STUR. (English summary) **2005a:91036**
— Long-memory property of nonlinear transformations of break processes. (English summary)
Ysusi, Carla *see* **Barndorff-Nielsen, Ole E. et al.**, (**2005c:62005**)
Yu, Bosco W. T. *see* **Pan, Jia Zhu et al.**, **2005h:62255**
Zbilut, Joseph P. ★ Unstable singularities and randomness. **2005k:37198**
Zhang, Qiang[6] (*with* Ogaki, Masao) Decreasing relative risk aversion, risk sharing, and the permanent income hypothesis. (English summary)
Zhuang, Xin-tian (*with* Huang, Xiao-yuan; Sha, Yan-li) Research on the fractal structure in the Chinese stock market. (English summary) **2005f:91083**
Zivot, Eric (*with* Wang, Jeffrey; Koopman, Siem Jan) State space modelling in macroeconomics and finance using SsfPack in S + Finmetrics. (English summary) (*see* **2005c:62005**)
Zuccolotto, Paola Quantile estimation in ultra-high frequency financial data: a comparison between parametric and semiparametric approach. (English summary)
Zucker, David M. *see* **Lieberman, Offer et al.**, **2005a:62044**

Items listed otherwise than by author

Lecture Notes in Economics and Mathematical Systems *see* **Kokot, Stefan**, **2005a:62010** *and* **Hautsch, Nikolaus**, **2005c:91004**

91B99 None of the above, but in this section

Dobrenko, M. A. (*with* Guts, A. K.) Initial structures of Kulakov ratios in microeconomics. (Russian. English summary) **2005c:91104**
Guts, A. K. *see* **Dobrenko, M. A.**, **2005c:91104**
Kalnins, Audris Business modelling. Languages and tools. (English summary) (*see* **2005a:00022**)
Safronova, I. A. *see* **Shmyrëv, V. I.**
Shmyrëv, V. I. (*with* Safronova, I. A.) A new method for the problem of optimizing leasing payments. (Russian. Russian summary)

Items with secondary classifications in 91B99

Moroz-Podvorchan, I. G. On the peculiarities of establishing influential factors in the investigation of systems of complex organization. (Russian. English summary)
Verdier, Thierry (*with* Zenou, Yves) Racial beliefs, location, and the causes of crime. (English summary) **2005e:91134**
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91Cxx Social and behavioral sciences: general topics {For statistics, see 62–XX.}

91C05 Measurement theory

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Ünlü, Ali (*with* Albert, Dietrich) The correlational agreement coefficient $CA(\leq, D)$—a mathematical analysis of a descriptive goodness-of-fit measure. (English summary) **2005g:91160**

Items with secondary classifications in 91C05

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Ip, Edward H. A note on differential information loss in multi-scale educational assessment. (English summary) **2005i:62031**
Mokken, Robert J. *see* **Münnich, Ákos et al.**, **2005k:91247**
Münnich, Ákos (*with* Mokken, Robert J.; Saris, Willem E.) Testing n-stimuli bisymmetry. (English summary) **2005k:91247**
Saris, Willem E. *see* **Münnich, Ákos et al.**, **2005k:91247**

91C20 Clustering [see also 62D05]

Brusco, Michael J. (*with* Cradit, J. Dennis) ConPar: a method for identifying groups of concordant subject proximity matrices for subsequent multidimensional scaling analyses. (English summary) **2005k:91241**
Cao, Yongqiang A convergence theorem related to iterative mean clustering. (English summary) **2005i:91094**
Costantini, Domenico *see* **Garibaldi, Ubaldo et al.**, **2005d:91088**
Cradit, J. Dennis *see* **Brusco, Michael J.**, **2005k:91241**
Garibaldi, Ubaldo (*with* Costantini, Domenico; Viarengo, Paolo) A finitary characterization of the Ewens sampling formula. (English summary) **2005d:91088**
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Brito, Paula (*with* Polaillon, Géraldine) Structuring probabilistic data by Galois lattices. (English and French summaries)
Deuflhard, Peter (*with* Weber, Marcus) Robust Perron cluster analysis in conformation dynamics. (English summary) **2005h:62166**
Domenach, Florent (*with* Leclerc, Bruno) Consensus of classification systems, with Adams' results revisited. (English summary) (*see* **2005i:62003**)
Garibaldi, Ubaldo (*with* Raberto, Marco; Viarengo, Paolo) Herd behavior in artificial stock markets. (English summary) **2005m:91100**
Kertész, János *see* **Szabó, Gábor J. et al.**, **2005k:91242**
Kimura, Masahiro (*with* Saito, Kazumi; Ueda, Naonori) Modeling share dynamics by extracting competition structure. (English summary) **2005m:62164**
Krause, Andreas Herding behavior of financial analysts: a model of self-organized criticality. (English summary) (*see* **2005m:91006**)
Leclerc, Bruno *see* **Domenach, Florent**, (**2005i:62003**)
Moon, Myung Sang *see* **Oh, Kyong Joo et al.**
Oh, Kyong Joo (*with* Roh, Tae Hyup; Moon, Myung Sang) Developing time-based clustering neural networks to use change-point detection: application to financial time series. (English summary)
Piccarreta, Raffaella *see* **Billari, Francesco C.**
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Szabó, Gábor J. (*with* Alava, Mikko; Kertész, János) Clustering in complex networks. (English summary) **2005k:91242**
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91C99 None of the above, but in this section

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91Dxx Mathematical sociology (including anthropology)

91D10 Models of societies, social and urban evolution

Carlier, Guillaume (*with* Ekeland, Ivar) The structure of cities. (English summary) **2005g:91161**
Dhar, Joydip (*with* Singh, Harbax) Diffusion of population under the influence industrialization in a twin-city environment. (English and Lithuanian summaries) **2005f:91111**
Dmitriev, M. G. (*with* Zhukova, G. S.; Petrov, Aleksandr P.) Asymptotic analysis of the "authority-society" model for the case of two stable power distributions. (Russian. English and Russian summaries) **2005c:91106**
Ekeland, Ivar *see* **Carlier, Guillaume**, **2005g:91161**
Miroiu, Adrian Characterizing majority rule: from profiles to societies. (English summary) **2005e:91133**
Pertsev, N. V. (*with* Pichugin, B. Yu.) Stochastic modeling of the individuals's community with their transformation and interaction. (English summary) (*see* **2005i:65006**)
Petrov, Aleksandr P. *see* **Dmitriev, M. G. et al.**, **2005c:91106**
Pichugin, B. Yu. *see* **Pertsev, N. V.**, (**2005i:65006**)
Silverman, Dan Street crime and street culture. (English summary) **2005c:91107**
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Verdier, Thierry (*with* Zenou, Yves) Racial beliefs, location, and the causes of crime. (English summary) **2005e:91134**
Weidlich, Wolfgang Thirty years of sociodynamics. An integrated strategy of modelling in the social sciences: applications to migration and urban evolution. (English summary)
Zenou, Yves *see* **Verdier, Thierry**, **2005e:91134**
Zhukova, G. S. *see* **Dmitriev, M. G. et al.**, **2005c:91106**

Items with secondary classifications in 91D10

Carayol, Nicolas (*with* Roux, Pascale) Behavioral foundations and equilibrium notions for social network formation processes. (English summary) **2005e:91135**
Kyriakidis, E. G. Optimal control of a simple immigration-emigration process through total catastrophes. (English summary) **2005a:90176**
Merlo, Antonio Introduction to economic models of crime. (English summary)
Mori, Osamu Harsanyi's social aggregation theorem and dictatorship. (English summary) **2005e:91062**
Roux, Pascale *see* **Carayol, Nicolas**, **2005e:91135**

91D20 Mathematical geography and demography

Billari, Francesco C. (*with* Piccarreta, Raffaella) Analyzing demographic life courses through sequence analysis. (English summary)
Boucekkine, Raouf (*with* de la Croix, David; Licandro, Omar) Modelling vintage structures with DDEs: principles and applications. (English summary) **2005f:91112**
de la Croix, David *see* **Boucekkine, Raouf et al.**, **2005f:91112**
Èdiev, D. M. The concept of demographic potential and its applications. (Russian. English and Russian summaries) **2005c:91108**
Lau, Morten I. (*with* Poutvaara, Panu; Wagener, Andreas) Dynamic costs of the draft. (English summary)
Licandro, Omar *see* **Boucekkine, Raouf et al.**, **2005f:91112**
Newman, Mark E. J. Who is the best connected scientist? A study of scientific coauthorship networks. (English summary) **2005i:91095**
Piccarreta, Raffaella *see* **Billari, Francesco C.**

Poutvaara, Panu *see* **Lau, Morten I. et al.**
Skans, Oskar Nordström Age effects in Swedish local labor markets. (English summary)
Skipper, Robert A., Jr. The heuristic role of Sewall Wright's 1932 adaptive landscape diagram. (English summary)
Wagener, Andreas *see* **Lau, Morten I. et al.**

Items with secondary classifications in 91D20

Chattopadhyay, Asis Kumar (*with* Khan, Shahjahan) A statistical model of occupational mobility—a salary based measure. (English summary)
Delmas, Bernard Pierre-François Verhulst et la loi logistique de la population. (English and French summaries) [Pierre-François Verhulst and the logistic law of population]
Hassler, John (*with* Rodríguez Mora, José V.; Storesletten, Kjetil; Zilibotti, Fabrizio) A positive theory of geographic mobility and social insurance. (English summary) **2005h:91179**
Kamat, Samir *see* **Page, Frank H., Jr. et al., 2005i:91099**
Khan, Shahjahan *see* **Chattopadhyay, Asis Kumar**
Mishra, Mithilesh Chandra *see* **Pandey, Himanshu et al.**
Page, Frank H., Jr. (*with* Wooders, Myrna H.; Kamat, Samir) Networks and farsighted stability. (English summary) **2005i:91099**
Pandey, Himanshu (*with* Yadav, Arvind Kumar; Mishra, Mithilesh Chandra) Inflated probability model for the number of out-migrants. (English summary)
Rodríguez Mora, José V. *see* **Hassler, John et al., 2005h:91179**
Smith, Jonathan D. H. A macroscopic approach to demography. (English summary) **2005a:92049**
Storesletten, Kjetil *see* **Hassler, John et al., 2005h:91179**
(Verhulst, Pierre-François) *see* **Delmas, Bernard**
Weidlich, Wolfgang Thirty years of sociodynamics. An integrated strategy of modelling in the social sciences: applications to migration and urban evolution. (English summary)
Wooders, Myrna H. *see* **Page, Frank H., Jr. et al., 2005i:91099**
Yadav, Arvind Kumar *see* **Pandey, Himanshu et al.**
Zilibotti, Fabrizio *see* **Hassler, John et al., 2005h:91179**

91D25 Spatial models [see also 91B72]

Schweitzer, Frank Coordination of decisions in a spatial model of Brownian agents. (English summary) (*see* **2005m:91006**)

Items with secondary classifications in 91D25

Egerstedt, Magnus B. *see* **Muhammad, Abubakr, (2005g:93004)**
Hassler, John (*with* Rodríguez Mora, José V.; Storesletten, Kjetil; Zilibotti, Fabrizio) A positive theory of geographic mobility and social insurance. (English summary) **2005h:91179**
Muhammad, Abubakr (*with* Egerstedt, Magnus B.) Decentralized coordination with local interactions: some new directions. (English summary) (*see* **2005g:93004**)
Rodríguez Mora, José V. *see* **Hassler, John et al., 2005h:91179**
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91D30 Social networks

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Alava, Mikko *see* **Szabó, Gábor J. et al., 2005k:91242**
Alexander, J. McKenzie Random Boolean networks and evolutionary game theory. (English summary) **2005a:91105**
Barry, Laurent *see* **Hamberger, Klaus et al., 2005i:91098**
Battiston, Stefano (*with* Bonabeau, Eric; Weisbuch, Gérard) Impact of corporate boards interlock on the decision making dynamics. (English summary) (*see* **2005m:91006**)
Belen, Selma (*with* Kaya, C. Yalçin; Pearce, Charles E. M.) Impulsive control of rumours with two broadcasts. (English summary) **2005i:91096**
Benoit, Jean-Pierre[1] (*with* Dubra, Juan) Why do good cops defend bad cops? (English summary)
Bonabeau, Eric *see* **Battiston, Stefano et al., (2005m:91006)**
Bramoullé, Yann (*with* López-Pintado, Dunia; Goyal, Sanjeev; Vega-Redondo, Fernando) Network formation and anti-coordination games. (English summary) **2005g:91162**
Carayol, Nicolas (*with* Roux, Pascale) Behavioral foundations and equilibrium notions for social network formation processes. (English summary) **2005e:91135**
Chowdhury, Debashish *see* **Stauffer, Dietrich, 2005b:91190**
Cowan, Robin (*with* Jonard, Nicolas; Zimmermann, Jean-Benoît) On the creation of networks and knowledge. (English summary) (*see* **2005m:91006**)
Daillant, Isabelle *see* **Hamberger, Klaus et al., 2005i:91098**
Denk, Ch. *see* **Mimkes, J. et al., 2005m:91171**
Diligenti, Michelangelo (*with* Gori, Marco; Maggini, Marco) Neural computation, social networks, and topological spectra. (English summary) **2005c:91109**
Dubra, Juan *see* **Benoit, Jean-Pierre**[1]
Fründ, F. *see* **Mimkes, J. et al., 2005m:91171**
Ginsparg, Paul Scholarly information network. (English summary) **2005h:91184**
Gori, Marco *see* **Diligenti, Michelangelo et al., 2005c:91109**
Goyal, Sanjeev *see* **Bramoullé, Yann et al., 2005g:91162**
Gubko, M. V. Control of organizational systems with network interaction of agents. I. A survey of network game theory. (Russian. Russian summary) **2005i:91097a**
— Control of organizational systems with network interaction of agents. II. Incentive problems. (Russian. Russian summary) **2005i:91097b**
Hamberger, Klaus (*with* Houseman, Michael; Daillant, Isabelle; White, Douglas R.; Barry, Laurent) Matrimonial ring structures. (English and French summaries) **2005i:91098**
Hillebrand, M. *see* **Mimkes, J. et al., 2005m:91171**
Houseman, Michael *see* **Hamberger, Klaus et al., 2005i:91098**
Huberman, Bernardo A. (*with* Adamic, Lada A.) Information dynamics in the networked world. (English summary) **2005h:91185**
— *see also* **Wu, Fang et al.**
Jha, J. S. Marital structure. (English summary)
Jonard, Nicolas *see* **Cowan, Robin et al., (2005m:91006)**
Kamat, Samir *see* **Page, Frank H., Jr. et al., 2005i:91099**
Kaya, C. Yalçin *see* **Belen, Selma et al., 2005i:91096**
Kertész, János *see* **Szabó, Gábor J. et al., 2005k:91242**
López-Pintado, Dunia *see* **Bramoullé, Yann et al., 2005g:91162**
Maggini, Marco *see* **Diligenti, Michelangelo et al., 2005c:91109**
Mimkes, J. (*with* Hillebrand, M.; Fründ, F.; Denk, Ch.; Willis, G.) Interactions of heterogeneous agents in stochastic socio-economic systems. **2005m:91171**
Nakamura, Yasuyuki *see* **Nakayama, Shoichiro, 2005e:91136**
Nakayama, Shoichiro (*with* Nakamura, Yasuyuki) A fashion model with social interaction. (English summary) **2005e:91136**
Ormerod, Paul (*with* Roach, Andrew P.) The medieval Inquisition: scale-free networks and the suppression of heresy. (English summary) **2005f:91113**
Page, Frank H., Jr. (*with* Wooders, Myrna H.; Kamat, Samir) Networks and farsighted stability. (English summary) **2005i:91099**
Pastor-Satorras, Romualdo (*with* Vázquez, Alexei; Vespignani, Alessandro) Topology, hierarchy, and correlations in internet graphs. (English summary) **2005m:91172**
Pattison, Philippa (*with* Robins, Garry) Building models for social space: neighbourhood-based models for social networks and affiliation structures. (English and French summaries)
Pearce, Charles E. M. *see* **Belen, Selma et al., 2005i:91096**
Pemantle, Robin (*with* Skyrms, Brian) Network formation by reinforcement learning: the long and medium run. (English summary) **2005e:91137**
Richmond, Peter (*with* Sabatelli, Lorenzo) Peer pressure and generalised Lotka Volterra models. (English summary) **2005g:91163**
Roach, Andrew P. *see* **Ormerod, Paul, 2005f:91113**
Robins, Garry *see* **Pattison, Philippa**
Roux, Pascale *see* **Carayol, Nicolas, 2005e:91135**
Sabatelli, Lorenzo *see* **Richmond, Peter, 2005g:91163**
Skyrms, Brian *see* **Pemantle, Robin, 2005e:91137**
Snijders, Tom A. B. Explained variation in dynamic network models. (English and French summaries)
Stauffer, Dietrich (*with* Chowdhury, Debashish) Unified "micro"- and "macro"-evolution of eco-systems: self-organization of a dynamic network. (English summary) **2005b:91190**
Steyer, Alexandre (*with* Zimmermann, Jean-Benoît) Influence sociale et diffusion de l'innovation. (English and French summaries) [Social influence and diffusion of innovation]
Szabó, Gábor J. (*with* Alava, Mikko; Kertész, János) Clustering in complex networks. (English summary) **2005k:91242**
Tyler, Joshua R. *see* **Wu, Fang et al.**
Vázquez, Alexei *see* **Pastor-Satorras, Romualdo et al., 2005m:91172**
Vega-Redondo, Fernando *see* **Bramoullé, Yann et al., 2005g:91162**
Vespignani, Alessandro *see* **Pastor-Satorras, Romualdo et al., 2005m:91172**
Weisbuch, Gérard *see* **Battiston, Stefano et al., (2005m:91006)**
White, Douglas R. Ring cohesion theory in marriage and social networks. (English and French summaries) **2005k:91243**
— *see also* **Hamberger, Klaus et al., 2005i:91098**
Willis, G. *see* **Mimkes, J. et al., 2005m:91171**
Wooders, Myrna H. *see* **Page, Frank H., Jr. et al., 2005i:91099**
Wu, Fang (*with* Huberman, Bernardo A.; Adamic, Lada A.; Tyler, Joshua R.) Information flow in social groups. (English summary)
Zimmermann, Jean-Benoît *see* **Steyer, Alexandre** *and* **Cowan, Robin et al., (2005m:91006)**
Zollman, Kevin J. S. Talking to neighbors: the evolution of regional meaning. (English summary)

Items with secondary classifications in 91D30

Alon, U. *see* **King, Oliver D., 2005k:05219** *and* **Itzkovitz, S. et al., 2005k:05220**
Amaral, Luís A. N. *see* **Moreira, André A. et al.**
Aubin, Jean-Pierre Evolution of complex economic systems and uncertain information. **2005b:91160**
Barkaline, Viatcheslav V. *see* **Miklashevich, Ihar A., 2005k:93004**
Battiston, Stefano (*with* Garlaschelli, Diego; Caldarelli, Guido) The topology of shareholding networks. (English summary) (*see* **2005j:91003**)
(Ben-Naim, Eli) *see* **Complex networks, 2005g:05005**
Billand, Pascal (*with* Bravard, Christophe) A note on the characterization of Nash networks. (English summary) **2005k:91076**
Blanchard, Philippe (*with* Krüger, Tyll) The "cameo principle" and the origin of scale-free graphs in social networks. (English summary) **2005b:05196**
Bravard, Christophe *see* **Billand, Pascal, 2005k:91076**
Bullock, Seth *see* **Ladley, Dan**
Caldarelli, Guido *see* **Battiston, Stefano et al., (2005j:91003)**
Calvó-Armengol, Antoni (*with* Zenou, Yves) Social networks and crime decisions: the role of social structure in facilitating delinquent behavior. (English summary) **2005e:91035**
Carayol, Nicolas (*with* Roux, Pascale) 'Collective innovation' in a model of network formation with preferential meeting. (English summary) **2005k:91077**
Chatterjee, Kalyan (*with* Xu, Susan H.) Technology diffusion by learning from neighbours. (English summary) **2005d:91016**
Chen, Guanrong *see* **Lü, Jinhu et al., 2005f:34137** *and* **Li, Xiang**[2] **et al.**
Cheng, Dai Zhan *see* **Lü, Jinhu et al., 2005f:34137**
Chung, Fan (*with* Lu, Linyuan) The average distance in a random graph with given expected degrees. (English summary) **2005e:05122**
— (*with* Lu, Linyuan) The small world phenomenon in hybrid power law graphs. (English summary) **2005j:05080**
Comfort, W. W. *see* **Scheibe, Karl E., 2005k:91237**
Cornforth, David (*with* Green, David G.; Newth, David) Ordered asynchronous processes in multi-agent systems. (English summary)
Dangalchev, Chavdar Generation models for scale-free networks. (English summary) **2005f:05152**
Degenne, Alain Les réseaux sociaux. [Social networks]
Del Pozo, Monica *see* **Gómez González, Daniel et al., 2005g:91017**

Diermeier, Daniel *see* **Moreira, André A. et al.**
Doebeli, Michael *see* **Ifti, Margarita et al.**
Dorogovtsev, Sergei N. (*with* Mendes, José F. F.) ★ Evolution of networks. **2005d:05002**
Eames, Ken T. D. (*with* Keeling, Matt J.) Monogamous networks and the spread of sexually transmitted diseases. (English summary) **2005a:92055**
Eppstein, David (*with* Wang, Joseph Yannkae) Fast approximation of centrality. (English summary) **2005h:68181**
Fagiolo, Giorgio (*with* Marengo, Luigi; Valente, Marco) Population learning in random games with endogenous network formation. (English summary) **2005k:91078**
(Frauenfelder, H.) *see* **Complex networks, 2005g:05005**
Garlaschelli, Diego *see* **Battiston, Stefano et al., (2005j:91003)**
Gómez González, Daniel (*with* González-Arangüena, Enrique; Manuel, Conrado; Owen, Guillermo; Del Pozo, Monica; Tejada Cazorla, Juan) Splitting graphs when calculating Myerson value for pure overhead games. (English summary) **2005g:91017**
González-Arangüena, Enrique *see* **Gómez González, Daniel et al., 2005g:91017**
Goyal, Sanjeev (*with* Vega-Redondo, Fernando) Network formation and social coordination. (English summary) **2005g:91030**
Graham, Bryan S. (*with* Hahn, Jinyong) Identification and estimation of the linear-in-means model of social interactions. (English summary)
Grebogi, Celso *see* **de Moura, Alessandro P. S. et al., 2005e:68009**
Green, David G. *see* **Cornforth, David et al.**
Hahn, Jinyong *see* **Graham, Bryan S.**
Ifti, Margarita (*with* Killingback, Timothy; Doebeli, Michael) Effects of neighbourhood size and connectivity on the spatial continuous prisoner's dilemma. (English summary)
Inohara, Takehiro Quasi-clusterability of signed graphs with negative self evaluation. (English summary) **2005f:05072**
— Signed graphs with negative self evaluation and clusterability of graphs. (English summary) **2005f:05073**
Itzkovitz, S. (*with* Milo, R.; Kashtan, N.; Newman, Mark E. J.; Alon, U.) Reply to: "Comment on: 'Subgraphs in random networks' " [Phys. Rev. E (3) **70** (2004), no. 5, 058101, 3 pp.; MR2133832 (2005k:05219)] by O. D. King. (English summary) **2005k:05220**
— *see also* **King, Oliver D., 2005k:05219**
Kashtan, N. *see* **King, Oliver D., 2005k:05219** *and* **Itzkovitz, S. et al., 2005k:05220**
Keeling, Matt J. *see* **Eames, Ken T. D., 2005a:92055**
Killingback, Timothy *see* **Ifti, Margarita et al.**
King, Oliver D. Comment on: "Subgraphs in random networks" [Phys. Rev. E (3) **68** (2003), no. 2, 026127, 8 pp.; MR2010075 (2004h:05118)] by S. Itzkovitz, R. Milo, N. Kashtan, G. Ziv and U. Alon. (English summary) **2005k:05219**
— *see also* **Itzkovitz, S. et al., 2005k:05220**
Kleinberg, Jon The small-world phenomenon: an algorithm perspective. (*see* **2005i:68003**)
Krüger, Tyll *see* **Blanchard, Philippe, 2005b:05196**
Ladley, Dan (*with* Bullock, Seth) The role of logistic constraints in termite construction of chambers and tunnels. (English summary)
Li, Chun Guang *see* **Li, Xiang² et al.**
Li, Xiang² (*with* Chen, Guanrong; Li, Chun Guang) Stability and bifurcation of disease spreading in complex networks. (English summary)
Liggett, Thomas M. (*with* Rolles, Silke W. W.) An infinite stochastic model of social network formation. (English summary) **2005f:60159**
Lü, Jinhu (*with* Yu, Xinghuo; Chen, Guanrong; Cheng, Dai Zhan) Characterizing the synchronizability of small-world dynamical networks. (English summary) **2005f:34137**
Lu, Linyuan *see* **Chung, Fan, 2005e:05122** *and* **2005j:05080**
Majka, Arkadiusz (*with* Wiślicki, Wojciech) Statistical thermodynamics for choice models on graphs. (English summary) **2005k:91089**
Manuel, Conrado *see* **Gómez González, Daniel et al., 2005g:91017**
Marengo, Luigi *see* **Fagiolo, Giorgio et al., 2005k:91078**
Mathur, Abhishek *see* **Moreira, André A. et al.**
Mendes, José F. F. *see* **Dorogovtsev, Sergei N., 2005d:05002**
Middendorf, Manuel *see* **Ziv, Etay et al., 2005m:94013**
Miklashevich, Ihar A. (*with* Barkaline, Viatcheslav V.) Mathematical representations of the dynamics of social system. I. General description. (English summary) **2005k:93004**
Milo, R. *see* **King, Oliver D., 2005k:05219** *and* **Itzkovitz, S. et al., 2005k:05220**
Monsuur, Herman (*with* Storcken, Ton) Centers in connected undirected graphs: an axiomatic approach. (English summary) **2005a:05191**
Moreira, André A. (*with* Mathur, Abhishek; Diermeier, Daniel; Amaral, Luís A. N.) Efficient system-wide coordination in noisy environments. (English summary)
Motter, Adilson E. *see* **de Moura, Alessandro P. S. et al., 2005e:68009**
de Moura, Alessandro P. S. (*with* Motter, Adilson E.; Grebogi, Celso) Searching in small-world networks. (English summary) **2005e:68009**
Newman, Mark E. J. The structure and function of complex networks. (English summary) **2005a:05206**
— *see also* **Itzkovitz, S. et al., 2005k:05220**
Newth, David *see* **Cornforth, David et al.**
Okada, Akinori Using additive conjoint measurement in analysis of social network data. (English summary) (*see* **2005b:62008**)
Owen, Guillermo *see* **Gómez González, Daniel et al., 2005g:91017**
Redner, Sidney *see* **Vázquez, Federico², 2005d:91035**
Rolles, Silke W. W. *see* **Liggett, Thomas M., 2005f:60159**
Roux, Pascale *see* **Carayol, Nicolas, 2005k:91077**
Scheibe, Karl E. (*with* Comfort, W. W.) Forming all pairs in a minimal number of steps. (English summary) **2005k:91237**
Storcken, Ton *see* **Monsuur, Herman, 2005a:05191**
Tejada Cazorla, Juan *see* **Gómez González, Daniel et al., 2005g:91017**
(Toroczkai, Zoltán) *see* **Complex networks, 2005g:05005**
Valente, Marco *see* **Fagiolo, Giorgio et al., 2005k:91078**
Vázquez, Federico² (*with* Redner, Sidney) Ultimate fate of constrained voters. (English summary) **2005d:91035**
Vega-Redondo, Fernando *see* **Goyal, Sanjeev, 2005g:91030**
Wang, Joseph Yannkae *see* **Eppstein, David, 2005h:68181**
Wiggins, Chris H. *see* **Ziv, Etay et al., 2005m:94013**
Wiślicki, Wojciech *see* **Majka, Arkadiusz, 2005k:91089**
Xu, Susan H. *see* **Chatterjee, Kalyan, 2005d:91016**
Yu, Xinghuo *see* **Lü, Jinhu et al., 2005f:34137**
Zenou, Yves *see* **Calvó-Armengol, Antoni, 2005e:91035**
Ziv, Etay (*with* Middendorf, Manuel; Wiggins, Chris H.) Information-theoretic approach to network modularity. (English summary) **2005m:94013**
(Ziv, G.) *see* **King, Oliver D., 2005k:05219**

Items listed otherwise than by author

Complex networks ★ Complex networks. **2005g:05005**
Lecture Notes in Physics ★ Complex networks. **2005g:05005**

91D35 Manpower systems [see also 91B40, 90B70]

Lochner, Lance Education, work, and crime: a human capital approach. (English summary) **2005b:91191**

Items with secondary classifications in 91D35

Biskup, Dirk (*with* Simons, Dirk) Common due date scheduling with autonomous and induced learning. (English summary) **2005b:90039**
Lau, Morten I. (*with* Poutvaara, Panu; Wagener, Andreas) Dynamic costs of the draft. (English summary)
Mishin, S. P. Optimal stimulation in multilevel hierarchical structures. (Russian. Russian summary) **2005f:91104**
Poutvaara, Panu *see* **Lau, Morten I. et al.**
Simons, Dirk *see* **Biskup, Dirk, 2005b:90039**
Wagener, Andreas *see* **Lau, Morten I. et al.**

91D99 None of the above, but in this section

Brown, S. E. *see* **Decent, S. P. et al.**
Decent, S. P. (*with* Wathan, J. C.; Brown, S. E.) Mathematical modelling in higher education social research. (English summary)
Wathan, J. C. *see* **Decent, S. P. et al.**

Items with secondary classifications in 91D99

De Cantis, Stefano *see* **Mendola, Daria, (2005f:62007)**
Harada, Yasushi *see* **Sakai, Satoki**
İmrohoroğlu, Ayse (*with* Merlo, Antonio; Rupert, Peter) What accounts for the decline in crime? (English summary) **2005d:91078**
Mendola, Daria (*with* De Cantis, Stefano) The analysis of poverty in Italy: A fuzzy dynamic approach. (English summary) (*see* **2005f:62007**)
Merlo, Antonio *see* **İmrohoroğlu, Ayse et al., 2005d:91078**
Rupert, Peter *see* **İmrohoroğlu, Ayse et al., 2005d:91078**
Sakai, Satoki (*with* Harada, Yasushi) Production of offspring using current income and reserves: size-number trade-off and optimal offspring size. (English summary)
Shi, Shouyong (*with* Temzelides, Ted) A model of bureaucreacy and corruption. (English summary) **2005b:91098**
Smith, Ian Fairness and inefficient divorce. (English summary) **2005m:91084**
Temzelides, Ted *see* **Shi, Shouyong, 2005b:91098**

91Exx Mathematical psychology

91E10 Cognitive psychology

Colonius, Hans *see* **Dzhafarov, Ehtibar N., 2005k:91244**
Dzhafarov, Ehtibar N. (*with* Colonius, Hans) Psychophysics without physics: a purely psychological theory of Fechnerian scaling in continuous stimulus spaces. (English summary) **2005k:91244**
Hintikka, Jaakko A fallacious fallacy?
Lee, Michael D. A Bayesian analysis of retention functions. (English summary)
(Levi, Isaac) *see* **Hintikka, Jaakko**

Items with secondary classifications in 91E10

Busemeyer, Jerome R. (*with* Diederich, Adele) Survey of decision field theory. (English summary) **2005b:91063**
Diederich, Adele *see* **Busemeyer, Jerome R., 2005b:91063**
Khrennikov, Andrei Yu. ★ Information dynamics in cognitive, psychological, social and anomalous phenomena. **2005b:91005**
Werning, Markus Synchrony and composition: toward a cognitive architecture between classicism and connectionism. (English summary) **2005c:92007**
Zbilut, Joseph P. ★ Unstable singularities and randomness. **2005k:37198**

91E30 Psychophysics and psychophysiology; perception

Colonius, Hans *see* **Dzhafarov, Ehtibar N., 2005k:91245**
Dzhafarov, Ehtibar N. (*with* Colonius, Hans) Psychophysics without physics: extension of Fechnerian scaling from continuous to discrete and discrete-continuous stimulus spaces. (English summary) **2005k:91245**
Zhang, Jun⁶ Dual scaling of comparison and reference stimuli in multi-dimensional psychological space. (English summary) **2005g:91164**

Items with secondary classifications in 91E30

Böckenholt, Ulf *see* **Tsai, Rung-Ching, 2005c:62126**
Colonius, Hans *see* **Dzhafarov, Ehtibar N., 2005k:91244**
Dzhafarov, Ehtibar N. (*with* Colonius, Hans) Psychophysics without physics: a purely psychological theory of Fechnerian scaling in continuous stimulus spaces. (English summary) **2005k:91244**

Sugihara, Kokichi Mathematics of pictures of impossible objects: human vision vs. robot vision [translation of Sūgaku **54** (2002), no. 1, 58–68; MR1918698 (2004h:68138)]. (*see* **2005a:00025**)
Tsai, Rung-Ching (*with* Böckenholt, Ulf) Two-level linear paired comparison models: estimation and identifiability issues. (English summary) **2005c:62126**

91E40 Memory and learning [see also 68T05]

Chechile, Richard A. New multinomial models for the Chechile-Meyer task. (English summary) **2005h:91186**
Dzhafarov, Ehtibar N. (*with* Schweickert, Richard; Sung, Kyongje) Mental architectures with selectively influenced but stochastically interdependent components. (English summary) **2005f:91114**
Jichici, Ciprian (*with* Negru, Viorel; Pop, Daniel; Şandru, Călin) E-learning content aggregation based on ontology and learning objects quality. (English summary) **2005k:91246**
Negru, Viorel *see* **Jichici, Ciprian et al., 2005k:91246**
Pop, Daniel *see* **Jichici, Ciprian et al., 2005k:91246**
Şandru, Călin *see* **Jichici, Ciprian et al., 2005k:91246**
Schweickert, Richard *see* **Dzhafarov, Ehtibar N. et al., 2005f:91114**
Sung, Kyongje *see* **Dzhafarov, Ehtibar N. et al., 2005f:91114**

Items with secondary classifications in 91E40

(Feng, Jian Feng[1]) *see* **Computational neuroscience, 2005h:92008**
Guiffrida, Alfred L. *see* **Jaber, Mohamad Y., 2005c:90019**
Howard, Marc W. Scaling behavior in the temporal context model. (English summary) **2005f:91115**
Huck, Steffen (*with* Sarin, Rajiv) Players with limited memory. (English summary) **2005h:91047**
Jaber, Mohamad Y. (*with* Guiffrida, Alfred L.) Learning curves for processes generating defects requiring reworks. (English summary) **2005c:90019**
Lamberton, Damien (*with* Pagès, Gilles; Tarrès, Pierre) When can the two-armed bandit algorithm be trusted? (English summary) **2005k:62183**
Lenaerts, Tom *see* **Tuyls, Karl et al., 2005a:91017**
Manderick, Bernard *see* **Tuyls, Karl et al., 2005a:91017**
Manski, Charles F. Social learning from private experiences: the dynamics of the selection problem. (English summary) **2005g:91054**
Nowe, Ann *see* **Tuyls, Karl et al., 2005a:91017**
Pagès, Gilles *see* **Lamberton, Damien et al., 2005k:62183**
Sarin, Rajiv *see* **Huck, Steffen, 2005h:91047**
Suck, Reinhard Set representations of orders and a structural equivalent of saturation. (English summary) **2005k:06004**
Tarrès, Pierre *see* **Lamberton, Damien et al., 2005k:62183**
Toussaint, Godfried Geometric graphs for improving nearest neighbor decision rules. (*see* **2005i:00014**)
Tuyls, Karl (*with* Nowe, Ann; Lenaerts, Tom; Manderick, Bernard) An evolutionary game theoretic perspective on learning in multi-agent systems. (English summary) **2005a:91017**

Items listed otherwise than by author

Computational neuroscience ★ Computational neuroscience. **2005h:92008**

91E45 Measurement and performance

Howard, Marc W. Scaling behavior in the temporal context model. (English summary) **2005f:91115**
Mokken, Robert J. *see* **Münnich, Ákos et al., 2005k:91247**
Münnich, Ákos (*with* Mokken, Robert J.; Saris, Willem E.) Testing n-stimuli bisymmetry. (English summary) **2005k:91247**
Regenwetter, Michel (*with* Rykhlevskaia, Elena) On the (numerical) ranking associated with any finite binary relation. (English summary) **2005a:91106**
Rykhlevskaia, Elena *see* **Regenwetter, Michel, 2005a:91106**
Saris, Willem E. *see* **Münnich, Ákos et al., 2005k:91247**

Items with secondary classifications in 91E45

Albert, Dietrich *see* **Ünlü, Ali, 2005g:91160**
de Baets, Bernard (*with* De Meyer, Hans) Transitivity frameworks for reciprocal relations: cycle-transitivity versus FG-transitivity. (English summary) **2005m:03104**
Bouyssou, Denis (*with* Pirlot, Marc) 'Additive difference' models without additivity and subtractivity. (English summary) **2005c:91105**
Dabrowski, André Robert (*with* Dehling, Herold G.) Conditional distribution of the H-coefficient in nonparametric unfolding models. (English summary) **2005k:60068**
Dehling, Herold G. *see* **Dabrowski, André Robert, 2005k:60068**
De Meyer, Hans *see* **de Baets, Bernard, 2005m:03104**
Ghirardato, Paolo (*with* Maccheroni, Fabio; Marinacci, Massimo; Siniscalchi, Marciano) A subjective spin on roulette wheels. (English summary) **2005b:91069**
Grasman, Raoul P. P. P. *see* **Wagenmakers, Eric-Jan et al.**
Karabatsos, George The exchangeable multinomial model as an approach to testing deterministic axioms of choice and measurement. (English summary)
Maccheroni, Fabio *see* **Ghirardato, Paolo et al., 2005b:91069**
Marinacci, Massimo *see* **Ghirardato, Paolo et al., 2005b:91069**
Molenaar, Peter C. M. *see* **Wagenmakers, Eric-Jan et al.**
Pirlot, Marc *see* **Bouyssou, Denis, 2005c:91105**
Siniscalchi, Marciano *see* **Ghirardato, Paolo et al., 2005b:91069**
Ünlü, Ali (*with* Albert, Dietrich) The correlational agreement coefficient $CA(\leq, D)$—a mathematical analysis of a descriptive goodness-of-fit measure. (English summary) **2005g:91160**
Wagenmakers, Eric-Jan (*with* Grasman, Raoul P. P. P.; Molenaar, Peter C. M.) On the relation between the mean and the variance of a diffusion model response time distribution. (English summary)
Zhang, Jun[6] Dual scaling of comparison and reference stimuli in multi-dimensional psychological space. (English summary) **2005g:91164**

91E99 None of the above, but in this section

Items with secondary classifications in 91E99

Carbonaro, B. (*with* Giordano, C.) A second step towards a stochastic mathematical description of human feelings. (English summary) **2005m:60139**
Giordano, C. *see* **Carbonaro, B., 2005m:60139**

91Fxx Other social and behavioral sciences (mathematical treatment)

91F10 History, political science

Gomberg, Andrei M. (*with* Marhuenda, Francisco; Ortuño-Ortín, Ignacio) A model of endogenous political party platforms. (English summary) **2005k:91248**
Levy, Gilat A model of political parties. (English summary) **2005e:91138**
Marhuenda, Francisco *see* **Gomberg, Andrei M. et al., 2005k:91248**
Ortuño-Ortín, Ignacio *see* **Gomberg, Andrei M. et al., 2005k:91248**
Procaccia, Uriel (*with* Segal, Uzi) Super majoritarianism and the endowment effect. (English summary) **2005f:91116**
Roemer, John E. Will democracy engender equality? (English summary) **2005g:91165**
Segal, Uzi *see* **Procaccia, Uriel, 2005f:91116**
Seidmann, Daniel J. The effects of a right to silence. (English summary) **2005j:91065**

Items with secondary classifications in 91F10

Brams, Steven J. ★ Game theory and politics. **2005f:91001**
Carreras, Francesc A decisiveness index for simple games. (English summary) **2005h:91019**
Chen, Liang[4] (*with* Tokuda, Naoyuki) A general stability analysis on regional and national voting schemes against noise—why is an electoral college more stable than a direct popular election? (English summary) **2005h:91065**
Edwards, Ronald A. The structure of authority, federalism, commitment and economic growth. (English summary) **2005j:91057**
Esteban, Joan (*with* Sákovics, József) Olson vs. Coase: coalitional worth in conflict. (English summary) **2005f:91013**
Gersbach, Hans The money-burning refinement: with an application to a political signalling game. (English summary) **2005g:91021**
Heifetz, Aviad (*with* Segev, Ella) Escalation and delay in protracted international conflicts. (English summary) **2005g:91085**
Kanazaki, Masayuki Lobbying game between the government with private information and the lobbyist. (English summary) **2005m:91068**
Laslier, Jean-François (*with* Van der Straeten, Karine) Electoral competition under imperfect information. (English summary) **2005k:91099**
Ormerod, Paul (*with* Roach, Andrew P.) The medieval Inquisition: scale-free networks and the suppression of heresy. (English summary) **2005f:91113**
Roach, Andrew P. *see* **Ormerod, Paul, 2005f:91113**
Sákovics, József *see* **Esteban, Joan, 2005f:91013**
Segev, Ella *see* **Heifetz, Aviad, 2005g:91085**
Sosina, Yu. V. *see* **Vasin, A. A., 2005h:91006**
Tokuda, Naoyuki *see* **Chen, Liang[4], 2005h:91065**
Van der Straeten, Karine *see* **Laslier, Jean-François, 2005k:91099**
Vasin, A. A. (*with* Sosina, Yu. V.) On the optimal distribution of information resources in an electoral campaign. (Russian. English and Russian summaries) **2005h:91006**
Yildirim, Huseyin Contests with multiple rounds. (English summary) **2005i:91014**
Yu, Zhihao Environmental protection: a theory of direct and indirect competition for political influence. (English summary) **2005h:91057**

91F20 Linguistics [see also 03B65, 68T50]

Cucker, Felipe (*with* Smale, Stephen; Zhou, Ding-Xuan) Modeling language evolution. (English summary) **2005b:91192**
Margaliot, Michael *see* **Tron, Eviatar**
Osswald, Rainer Generic ontology of linguistic classification. (English summary) **2005b:91193**
Smale, Stephen *see* **Cucker, Felipe et al., 2005b:91192**
Tron, Eviatar (*with* Margaliot, Michael) Mathematical modeling of observed natural behavior: a fuzzy logic approach. (English summary)
Xu, Ze Shui A method based on fuzzy linguistic assessments and the GIOWA operator in multi-attribute group decision making. (Chinese. English and Chinese summaries) **2005a:91107**
Zhou, Ding-Xuan *see* **Cucker, Felipe et al., 2005b:91192**

Items with secondary classifications in 91F20

Fenstad, Jens Erik Tarski, truth and natural languages. (English summary) **2005a:03060**
Hazewinkel, Michiel Dynamic stochastic models for indexes and thesauri, identification clouds, and information retrieval and storage. (English summary) (*see* **2005f:60007**)
Makinson, David (*with* van der Torre, Leendert) What is input/output logic? (English summary) **2005c:03051**
van Rooy, Robert Utility, informativity and protocols. (English summary) **2005m:62013**
(Tarski, Alfred) *see* **Fenstad, Jens Erik, 2005a:03060**
van der Torre, Leendert *see* **Makinson, David, 2005c:03051**
Wang, Fei Yue On the abstraction of conventional dynamic systems: from numerical analysis to linguistic analysis. (English summary)
Werning, Markus Synchrony and composition: toward a cognitive architecture between classicism and connectionism. (English summary) **2005c:92007**
Xu, Ze Shui A method based on linguistic aggregation operators for group decision making with linguistic preference relations. (English summary)

91F99 None of the above, but in this section

Items with secondary classifications in 91F99

Bull, Jesse (*with* Watson, Joel) Evidence disclosure and verifiability. (English summary) **2005c:91079**

Dawid, A. Philip Bayes's theorem and weighing evidence by juries. **2005f:62167**

Watson, Joel *see* **Bull, Jesse**, **2005c:91079**

92–XX Biology and other natural sciences

92–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Items with secondary classifications in 92–00

(Arbib, Michael A.) *see* **Handbook of brain theory and neural networks, 2005m:68002**

Items listed otherwise than by author

Handbook of brain theory and neural networks ★ The handbook of brain theory and neural networks. **2005m:68002**

92–01 Instructional exposition (textbooks, tutorial papers, etc.)

Nanjundiah, Vidyanand Mathematics and biology. (English summary)
Ramaswamy, Ramakrishna The natural effectiveness of mathematics in the biological sciences. (English summary)

Items with secondary classifications in 92–01

Chauvet, Gilbert ★ The mathematical nature of the living world. **2005h:00003**

92–02 Research exposition (monographs, survey articles)

(Beuter, Anne) *see* **Nonlinear dynamics in physiology and medicine, 2005a:92001**
(Crabbe, M. James C.) *see* **Handbook: Computational biology, compact, 2005j:92001**
Edelstein-Keshet, Leah ★ Mathematical models in biology.
(Glass, Leon) *see* **Nonlinear dynamics in physiology and medicine, 2005a:92001**
(Konopka, Andrzej K.) *see* **Handbook: Computational biology, compact, 2005j:92001**
(Mackey, Michael C.) *see* **Nonlinear dynamics in physiology and medicine, 2005a:92001**
Sulis, William H. Archetypal dynamics: an approach to the study of emergence. (English summary) (*see* **2005f:92001**)
(Titcombe, Michèle S.) *see* **Nonlinear dynamics in physiology and medicine, 2005a:92001**

Items listed otherwise than by author

Handbook:
Computational biology, compact ★ Compact handbook of computational biology. **2005j:92001**
Nonlinear dynamics in physiology and medicine ★ Nonlinear dynamics in physiology and medicine. **2005a:92001**

Items with secondary classifications in 92–02

Cieslik, Dietmar ★ Shortest connectivity. **2005f:92018**
(Larsen, Jesper K.) *see* **Applied mathematical models in human physiology, 2005f:92010**
Nagy, John D. The ecology and evolutionary biology of cancer: a review of mathematical models of necrosis and tumor cell diversity. (English summary) **2005m:92018**
(Olufsen, Mette S.) *see* **Applied mathematical models in human physiology, 2005f:92010**
(Ottesen, Johnny T.) *see* **Applied mathematical models in human physiology, 2005f:92010**

Items listed otherwise than by author

Applied mathematical models in human physiology ★ Applied mathematical models in human physiology. **2005f:92010**

92–03 Historical (must also be assigned at least one classification number from Section 01)

Berenfeld, Omer *see* **Jalife, José**
De Schutter, Erik Guest editorial: Computational neuroscience: trends in research 2004. (*see* **2005j:92002**)
Jalife, José (*with* Berenfeld, Omer) Molecular mechanisms and global dynamics of fibrillation: an integrative approach to the underyling basis of vortex-like reentry. (English summary)
Keener, James P. The topology of defibrillation. (English summary)
Mawhin, Jean The legacy of Pierre-François Verhulst and Vito Volterra in population dynamics. (English summary) (*see* **2005j:00015**)
(Verhulst, Pierre-François) *see* **Mawhin, Jean, (2005j:00015)**
(Volterra, Vito) *see* **Mawhin, Jean, (2005j:00015)**

Items with secondary classifications in 92–03

Chen, Tar Timothy History of statistical thinking in medicine. (*see* **2005c:62003**)
Delmas, Bernard Pierre-François Verhulst et la loi logistique de la population. (English and French summaries) [Pierre-François Verhulst and the logistic law of population]
Deltete, Robert J. *Die lehre von der Energie*: Georg Helm's energetic manifesto.
Gaudillière, Jean-Paul Beyond one-case statistics: mathematics, medicine, and the management of health and disease in the postwar era. (*see* **2005b:01001**)
(Helm, Georg) *see* **Deltete, Robert J.**
Oster, George Clocks and patterns in Myxobacteria: a remembrance of Art Winfree. (English summary)
Richter, Otto Mathematik in der Biologie: Geschichte, Konzepte und Anwendungen. [Mathematics in biology: history, concepts and applications]
Roth, Bradley J. Art Winfree and the bidomain model of cardiac tissue. (English summary)
(Verhulst, Pierre-François) *see* **Delmas, Bernard**
(Winfree, Arthur T.) *see* **Roth, Bradley J.** *and* **Oster, George**

Items listed otherwise than by author

Biography:
Helm, Georg *see* **Deltete, Robert J.**

92–06 Proceedings, conferences, collections, etc.

Alber, Mark (*with* Hou, Thomas Yizhao; Glazier, James A.; Jiang, Yi[2]) Special issue on multiscale modeling in biology.
de Angelis, Elena *see* **Bellomo, Nicola**
(Ayache, Nicholas) *see* **Handbook: Numerical analysis, Vol. XII, 2005e:92001**
Bellomo, Nicola (*with* de Angelis, Elena) Preface [Special issue on modelling complex systems in molecular biology and tumor dynamics and control].
(Capasso, Vincenzo) *see* **Mathematical modelling & computing in biology and medicine, 2005d:92001**
Claude, Daniel (*with* Ollivier, François; Lobry, Claude; Demongeot, Jacques) ★ Mathématiques et biologie. (French) [Mathematics and biology]
Dellnitz, Michael (*with* Kirkland, Steve; Neumann, Michael; Schütte, Christof) Preface [Special issue on matrices and mathematical biology].
Demongeot, Jacques *see* **Claude, Daniel et al.**
(De Schutter, Erik) *see* **Computational neuroscience, 2005j:92002**
Ferris, Michael C. (*with* Zhang, Yin[1]) Foreword: Special issue on mathematical programming in biology and medicine.
Glazier, James A. *see* **Alber, Mark et al.**
Greenberg, Harvey J. From the guest editor for the special issue on computational molecular biology/bioinformatics.
Hallam, Thomas G. (*with* Kostova, Tanya) Introduction to the Special Issue [Modelling, analysis, and theory of dynamic populations].
Hou, Thomas Yizhao *see* **Alber, Mark et al.**
Jiang, Yi[2] *see* **Alber, Mark et al.**
Kirkland, Steve *see* **Dellnitz, Michael et al.**
Kostova, Tanya *see* **Hallam, Thomas G.**
Krasnogor, Natalio *see* **Pelta, David**
Lobry, Claude *see* **Claude, Daniel et al.**
(Malladi, Ravikanth) *see* **Geometric methods in bio-medical image processing, 2005a:92002**
(Nation, James) *see* **Formal descriptions of developing systems, 2005f:92001**
Neumann, Michael *see* **Dellnitz, Michael et al.**
Ollivier, François *see* **Claude, Daniel et al.**
Pelta, David (*with* Krasnogor, Natalio) Editorial [Fuzzy sets in bioinformatics].
(Rand, John D.) *see* **Formal descriptions of developing systems, 2005f:92001**
(Rudnicki, Ryszard) *see* **Mathematical modelling of population dynamics, 2005a:92003**
Schütte, Christof *see* **Dellnitz, Michael et al.**
(Sulis, William H.) *see* **Formal descriptions of developing systems, 2005f:92001**
(Trofimova, Irina) *see* **Formal descriptions of developing systems, 2005f:92001**
Webb, Glenn F. Introduction [Advances in mathematical biology].
Zhang, Yin[1] *see* **Ferris, Michael C.**

Items listed otherwise than by author

Alicante ★ Computational neuroscience. **2005j:92002**
Będlewo ★ Mathematical modelling of population dynamics. **2005a:92003**
Computational neuroscience ★ Computational neuroscience. **2005j:92002**
Formal descriptions of developing systems ★ Formal descriptions of developing systems. **2005f:92001**
Geometric methods in bio-medical image processing ★ Geometric methods in bio-medical image processing. **2005a:92002**
Handbook:
Numerical analysis, Vol. XII ★ Handbook of numerical analysis. Vol. XII. **2005e:92001**
Manoa, HI ★ Formal descriptions of developing systems. **2005f:92001**
Mathematical modelling & computing in biology and medicine ★ Mathematical modelling & computing in biology and medicine. **2005d:92001**
Mathematical modelling of population dynamics ★ Mathematical modelling of population dynamics. **2005a:92003**
Mathematics and biology *see* **Claude, Daniel et al.**
Mathématiques et biologie *see* **Claude, Daniel et al.**
Milan ★ Mathematical modelling & computing in biology and medicine. **2005d:92001**

Items with secondary classifications in 92–06

(Apostolico, Alberto) *see* **Combinatorial pattern matching, 2005a:68009**
(Baeza-Yates, Ricardo) *see* **Combinatorial pattern matching, 2005a:68010**
Bär, Markus (*with* Engel-Herbert, H.; Schöll, Eckehard; Torcini, Alessandro) Preface: Trends in pattern formation: stability, control and fluctuations.
(Ben-Naim, Eli) *see* **Complex networks, 2005g:05005**
(Beuter, Anne) *see* **Nonlinear dynamics in physiology and medicine, 2005a:92001**
Burdujan, Ilie *see* **Oancea, Servilia et al.**
Cărăuşu, Alexandru *see* **Oancea, Servilia et al.**
(Chávez, Edgar) *see* **Combinatorial pattern matching, 2005a:68010**
(Crabbe, M. James C.) *see* **Handbook: Computational biology, compact, 2005j:92001**
(Crochemore, Maxime) *see* **Combinatorial pattern matching, 2005a:68010**
(Deutsch, Andreas) *see* **Function and regulation of cellular systems, 2005b:92001**
Engel-Herbert, H. *see* **Bär, Markus et al.**
(Evtushenko, Yurii Gavrilovich) *see* **Moiseev, Nikita Nikolaevich**
(Falcke, Martin) *see* **Function and regulation of cellular systems, 2005b:92001**
(Fang, Ji-Qian) *see* **Advanced medical statistics, 2005c:62003**
(Feng, Jian Feng[1]) *see* **Computational neuroscience, 2005h:92008**
(Flerov, Yu. A.) *see* **Moiseev, Nikita Nikolaevich**
(Frauenfelder, H.) *see* **Complex networks, 2005g:05005**
(Glass, Leon) *see* **Nonlinear dynamics in physiology and medicine, 2005a:92001**
(Howard, Jonathon) *see* **Function and regulation of cellular systems, 2005b:92001**
(Konopka, Andrzej K.) *see* **Handbook: Computational biology, compact, 2005j:92001**
(Larsen, Jesper K.) *see* **Applied mathematical models in human physiology, 2005f:92010**
(Lu, Ying) *see* **Advanced medical statistics, 2005c:62003**
(Mackey, Michael C.) *see* **Nonlinear dynamics in physiology and medicine, 2005a:92001**
Moiseev, Nikita Nikolaevich ★ Избранные труды. 2. (Russian) [Selected works. 2]
(Nodera, Takashi) *see* **Mathematics of destructive phenomena**
Oancea, Servilia (*with* Burdujan, Ilie; Cărăuşu, Alexandru) Foreword [Proceedings of the Annual Symposium on Mathematics Applied in Biology & Biophysics].

(Olufsen, Mette S.) *see* **Applied mathematical models in human physiology, 2005f:92010**
(Ottesen, Johnny T.) *see* **Applied mathematical models in human physiology, 2005f:92010**
(Parkhomenko, V. P.) *see* **Moiseev, Nikita Nikolaevich**
(Pavlovskiĭ, Yu. N.) *see* **Moiseev, Nikita Nikolaevich**
(Petrov, Aleksandr Aleksandrovich) *see* **Moiseev, Nikita Nikolaevich**
(Rajapakse, Jagath Chandana) *see* **Neural information processing: research and development, 2005g:68143**
Schöll, Eckehard *see* **Bär, Markus et al.**
(Smirnov, A. I.) *see* **Mathematical models in economics and ecology**
(Takeda, Masayuki) *see* **Combinatorial pattern matching, 2005a:68009**
(Tani, Atusi) *see* **Mathematics of destructive phenomena**
(Ter-Krikorov, A. M.) *see* **Moiseev, Nikita Nikolaevich**
(Titcombe, Michèle S.) *see* **Nonlinear dynamics in physiology and medicine, 2005a:92001**
Torcini, Alessandro *see* **Bär, Markus et al.**
(Toroczkai, Zoltán) *see* **Complex networks, 2005g:05005**
(Wang, Lipo) *see* **Neural information processing: research and development, 2005g:68143**
(Zimmermann, Walter Josef) *see* **Function and regulation of cellular systems, 2005b:92001**

Items listed otherwise than by author

Advanced medical statistics ★ Advanced medical statistics. **2005c:62003**
Applied mathematical models in human physiology ★ Applied mathematical models in human physiology. **2005f:92010**
Biography:
Moiseev, Nikita Nikolaevich *see* **Moiseev, Nikita Nikolaevich**
Collected Works:
Moiseev, Nikita Nikolaevich *see* **Moiseev, Nikita Nikolaevich**
Combinatorial pattern matching ★ Combinatorial pattern matching. **2005a:68009**
— ★ Combinatorial pattern matching. **2005a:68010**
Complex networks ★ Complex networks. **2005g:05005**
Computational neuroscience ★ Computational neuroscience. **2005h:92008**
Fukuoka ★ Combinatorial pattern matching. **2005a:68009**
Function and regulation of cellular systems ★ Function and regulation of cellular systems. **2005b:92001**
Handbook:
Computational biology, compact ★ Compact handbook of computational biology. **2005j:92001**
Khimki ★ Математические модели в экономике и экологии. (Russian) [Mathematical models in economics and ecology]
Lecture Notes in Computer Science ★ Combinatorial pattern matching. **2005a:68009**
— ★ Combinatorial pattern matching. **2005a:68010**
Lecture Notes in Physics ★ Complex networks. **2005g:05005**
Mathematical models in economics and ecology ★ Математические модели в экономике и экологии. (Russian) [Mathematical models in economics and ecology]
Mathematics of destructive phenomena ★ Hakai genshō no sūri. [Mathematics of destructive phenomena]
Morelia ★ Combinatorial pattern matching. **2005a:68010**
Neural information processing: research and development ★ Neural information processing: research and development. **2005g:68143**
Nonlinear dynamics in physiology and medicine ★ Nonlinear dynamics in physiology and medicine. **2005a:92001**
Yokohama ★ Hakai genshō no sūri. [Mathematics of destructive phenomena]

92–08 Computational methods

Items with secondary classifications in 92–08

Gascuel, Olivier (*with* McKenzie, Andy) Performance analysis of hierarchical clustering algorithms. (English summary) **2005e:62095**
McKenzie, Andy *see* **Gascuel, Olivier, 2005e:62095**

92Bxx Mathematical biology in general

92B05 General biology and biomathematics

Amaral, Luís A. N. (*with* Díaz-Guilera, Albert; Moreira, André A.; Goldberger, Ary L.; Lipsitz, Lewis A.) Emergence of complex dynamics in a simple model of signaling networks. (English summary)
Arizmendi, C. M. *see* **Family, Fereydoon et al., (2005d:92001)**
Audoly, Stefania *see* **Saccomani, Maria Pia et al., (2005d:92001)**
Bain, E. L. (*with* Millar, A. J.; Turner, Matthew Simon) The wild-type circadian period of *Neurospora* is encoded in the residual network of the null *frq* mutants. (English summary)
Banks, H. T. (*with* Potter, Laura K.) Probabilistic methods for addressing uncertainty and variability in biological models: application to a toxicokinetic model. (English summary) **2005i:92001**
Barabási, Albert-László (*with* Oltvai, Zoltán N.; Wuchty, Stefan) Characteristics of biological networks. (English summary) (*see* **2005g:05005**)
Bernot, Gilles (*with* Comet, Jean-Paul; Richard, Adrien; Guespin, Janine) Application of formal methods to biological regulatory networks: extending Thomas' asynchronous logical approach with temporal logic. (English summary)
Brumer, Yisroel (*with* Shakhnovich, Eugene I.) Selective advantage for conservative viruses. (English summary)
Claude, Daniel Programme de recherche "Modélisation et Commande de Systèmes Biologiques". [The research program "Modelling and Control of Biological Systems"]
Clayton, Philip D. Emergence: us from it.
Comet, Jean-Paul *see* **Bernot, Gilles et al.**
Conte, Elio (*with* Federici, Antonio; Khrennikov, Andrei Yu.; Zbilut, Joseph P.) Is determinism the basic rule in dynamics of biological matter? (English summary) **2005k:92001**
Costa, Madalena (*with* Goldberger, Ary L.; Peng, Chung-Kang) Multiscale entropy analysis of biological signals. (English summary)
D'Angiò, Leontina *see* **Saccomani, Maria Pia et al., (2005d:92001)**
(Deutsch, Andreas) *see* **Function and regulation of cellular systems, 2005b:92001**
Díaz-Guilera, Albert *see* **Amaral, Luís A. N. et al.**
Ditlevsen, Susanne (*with* Yip, Kay-Pong; Holstein-Rathlou, Niels-Henrik) Parameter estimation in a stochastic model of the tubuloglomerular feedback mechanism in a rat nephron. (English summary)
Elowitz, Michael B. *see* **Garcia-Ojalvo, Jordi et al.**
(Falcke, Martin) *see* **Function and regulation of cellular systems, 2005b:92001**
Family, Fereydoon (*with* Larrondo, Hilda A.; Arizmendi, C. M.) Basins of attraction and control of current in inertia ratchets. (English summary) (*see* **2005d:92001**)
Federici, Antonio *see* **Conte, Elio et al., 2005k:92001**
Ferreira, C. P. *see* **Zacarias, G. D. et al.**
Forger, Daniel B. (*with* Peskin, Charles S.) Model based conjectures on mammalian clock controversies. (English summary)
Forti, Marco (*with* Freguglia, Paolo; Galleni, Lodovico) An axiomatic approach to some biological themes. (*see* **2005a:00015**)
Freguglia, Paolo *see* **Forti, Marco et al., (2005a:00015)**
Galleni, Lodovico *see* **Forti, Marco et al., (2005a:00015)**
Gammack, David (*with* Ganguli, Suman; Marino, Simeone; Segovia-Juarez, Jose L.; Kirschner, Denise E.) Understanding the immune response in tuberculosis using different mathematical models and biological scales. (English summary) **2005j:92003**
Ganguli, Suman *see* **Gammack, David et al., 2005j:92003**
Garcia-Ojalvo, Jordi (*with* Elowitz, Michael B.; Strogatz, Steven H.) Modeling a synthetic multicellular clock: repressilators coupled by quorum sensing. (English summary)
Giuraniuc, C. V. *see* **Indekeu, J. O., 2005f:92002**
Goldberger, Ary L. *see* **Amaral, Luís A. N. et al.** *and* **Costa, Madalena et al.**
Goldbeter, Albert *see* **Leloup, Jean-Christophe**
Gontineac, Mihai Some of the algebraic tools for molecular computing. (English summary) **2005m:92001**
Gopinathan, M. S. *see* **Sriram, Krishnan**
Guespin, Janine *see* **Bernot, Gilles et al.**
Hillen, Thomas On the L^2-moment closure of transport equations: the general case. (English summary) **2005m:92002**
Holstein-Rathlou, Niels-Henrik *see* **Ditlevsen, Susanne et al.**
(Howard, Jonathon) *see* **Function and regulation of cellular systems, 2005b:92001**
Indekeu, J. O. (*with* Giuraniuc, C. V.) Cellular automaton for bacterial towers. (English summary) **2005f:92002**
Jamalyaria, Farokh (*with* Rohlfs, Rori; Schwartz, Russell) Queue-based method for efficient simulation of biological self-assembly systems. (English summary) **2005j:92004**
Kaitaniemi, Pekka Testing the allometric scaling laws. (English summary)
Kamatani, Naoyuki *see* **Matsui, Tomomi et al., 2005e:92002**
Keener, James P. A model for length control of flagellar hooks of *Salmonella typhimurium*. (English summary)
Khidirov, B. N. On an approach to modeling the regulatory mechanisms of living systems. (Russian. English and Russian summaries) **2005h:92001**
Khrennikov, Andrei Yu. *see* **Conte, Elio et al., 2005k:92001**
Kirschner, Denise E. *see* **Gammack, David et al., 2005j:92003**
Kotti, Vassiliki (*with* Rigas, Alexandros) A nonlinear stochastic model used for the identification of a biological system. (English summary) (*see* **2005d:92001**)
Larrondo, Hilda A. *see* **Family, Fereydoon et al., (2005d:92001)**
Leloup, Jean-Christophe (*with* Goldbeter, Albert) Modeling the mammalian circadian clock: sensitivity analysis and multiplicity of oscillatory mechanisms. (English summary)
Lewis, Mark A. *see* **Lutscher, Frithjof et al., 2005m:92003**
Lipsitz, Lewis A. *see* **Amaral, Luís A. N. et al.**
Lutscher, Frithjof (*with* Pachepsky, Elizaveta; Lewis, Mark A.) The effect of dispersal patterns on stream populations. (English summary) **2005m:92003**
Marino, Simeone *see* **Gammack, David et al., 2005j:92003**
Matsui, Tomomi (*with* Motoki, Mitsuo; Kamatani, Naoyuki) Polynomial time approximate sampler for discretized Dirichlet distribution. (English summary) **2005e:92002**
Millar, A. J. *see* **Bain, E. L. et al.**
Mopecha, Jimmy P. (*with* Thieme, Horst R.) Competitive dynamics in a model for onchocerciasis with cross-immunity. (English summary) **2005k:92002**
Moreira, André A. *see* **Amaral, Luís A. N. et al.**
Motoki, Mitsuo *see* **Matsui, Tomomi et al., 2005e:92002**
Novák, Béla (*with* Tyson, John J.) A model for restriction point control of the mammalian cell cycle. (English summary)
Ollason, J. G. (*with* Ren, N.) A general dynamical theory of foraging in animals. (English summary)
Ollivier, François Identifiabilité des systèmes: applications à la biologie. (French summary) [System identifiability: applications to biology] **2005e:92003**
Oltvai, Zoltán N. *see* **Barabási, Albert-László et al., (2005g:05005)**
Pachepsky, Elizaveta *see* **Lutscher, Frithjof et al., 2005m:92003**
Peng, Chung-Kang *see* **Costa, Madalena et al.**
Peng, Zuo-xiang (*with* Wu, Du-zhi) Using extreme value theory to estimate average life of species. (English and Chinese summaries)
Peskin, Charles S. *see* **Forger, Daniel B.**
Potter, Laura K. *see* **Banks, H. T., 2005i:92001**
Ren, N. *see* **Ollason, J. G.**
Richard, Adrien *see* **Bernot, Gilles et al.**
Rigas, Alexandros *see* **Kotti, Vassiliki, (2005d:92001)**
Rohlfs, Rori *see* **Jamalyaria, Farokh et al., 2005j:92004**
Rothman, Daniel H. *see* **Weitz, Joshua S., 2005k:92003**
Saccomani, Maria Pia (*with* Audoly, Stefania; D'Angiò, Leontina) A differential algebra algorithm to test a priori global identifiability of nonlinear systems. (English summary) (*see* **2005d:92001**)
Schwartz, Russell *see* **Jamalyaria, Farokh et al., 2005j:92004**
Segovia-Juarez, Jose L. *see* **Gammack, David et al., 2005j:92003**
Shakhnovich, Eugene I. *see* **Brumer, Yisroel**

Sinyakova, O. G. Mathematical modeling methods in problems of estimating the state of an organism (radionuclide diagnostics). (Russian. Russian summary)
Sriram, Krishnan (*with* Gopinathan, M. S.) A two variable delay model for the circadian rhythm of *Neurospora crassa*. (English summary)
Strogatz, Steven H. *see* **Garcia-Ojalvo, Jordi et al.**
Thieme, Horst R. *see* **Mopecha, Jimmy P., 2005k:92002**
Turner, Matthew Simon *see* **Bain, E. L. et al.**
Tyson, John J. *see* **Novák, Béla**
Velasco-Hernández, J. X. *see* **Zacarias, G. D. et al.**
Verstraelen, Leopold The geometry of eye and brain.
Weitz, Joshua S. (*with* Rothman, Daniel H.) Dynamics of a contact process with ontogeny. (English summary) **2005k:92003**
Wu, Du-zhi *see* **Peng, Zuo-xiang**
Wuchty, Stefan *see* **Barabási, Albert-László et al., (2005g:05005)**
Yip, Kay-Pong *see* **Ditlevsen, Susanne et al.**
Zacarias, G. D. (*with* Ferreira, C. P.; Velasco-Hernández, J. X.) Porosity and tortuosity relations as revealed by a mathematical model of biofilm structure. (English summary)
Zbilut, Joseph P. *see* **Conte, Elio et al., 2005k:92001**
(Zimmermann, Walter Josef) *see* **Function and regulation of cellular systems, 2005b:92001**

Items listed otherwise than by author

Function and regulation of cellular systems ★ Function and regulation of cellular systems. **2005b:92001**

Items with secondary classifications in 92B05

Ahlbrandt, Calvin (*with* Benson, Gary; Casey, William) Minimal entropy probability paths between genome families. (English summary) **2005b:92024**
Aldana-González, Maximino (*with* Coppersmith, Susan; Kadanoff, Leo P.) Boolean dynamics with random couplings. (English summary) **2005g:37028**
Alexander, M. E. (*with* Bowman, C.; Moghadas, S. M.; Summers, Arthur Randolph; Gumel, A. B.; Sahai, B. M.) A vaccination model for transmission dynamics of influenza. (English summary) **2005h:34103**
Alonso, Antonio A. *see* **Banga, Julio R. et al., (2005a:90005)**
Amar, Micol (*with* Andreucci, Daniele; Gianni, Roberto; Bisegna, Paolo) Evolution and memory effects in the homogenization limit for electrical conduction in biological tissues. (English summary) **2005f:35018**
Amdjadi, Faridon (*with* Gomatam, Jagannathan) Spiral waves on static and moving spherical domains. (English summary) **2005m:35138**
Andreucci, Daniele *see* **Amar, Micol et al., 2005f:35018**
Baaijens, Frank P. T. *see* **Huyghe, Jacques M. et al., 2005m:76209**
Bagnoli, Franco (*with* Bignone, Franco A.; Cecconi, Fabio; Politi, Antonio) Information complexity and biology. (English summary) **2005e:68106**
Bakstein, David *see* **Capasso, Vincenzo, 2005g:60001**
Banga, Julio R. (*with* Moles, Carmen G.; Alonso, Antonio A.) Global optimization of bioprocesses using stochastic and hybrid methods. (English summary) (*see* **2005a:90005**)
Banks, H. T. Incorporation of uncertainty in inverse problems. (English summary) **2005f:35309**
Bar-Yam, Yaneer ★ Dynamics of complex systems. **2005c:37166**
Bastin, Georges *see* **Bernard, Olivier**
Beaumont, Jacques *see* **Wang, Guan Jun, 2005b:92015**
Beck, M. B. *see* **Stigter, J. D.**
Bellomo, Nicola (*with* Bellouquid, Abdelghani; Delitala, Marcello) Mathematical topics on the modelling complex multicellular systems and tumor immune cells competition. (English summary) **2005g:92028**
Bellouquid, Abdelghani *see* **Bellomo, Nicola et al., 2005g:92028**
Benson, Gary *see* **Ahlbrandt, Calvin et al., 2005b:92024**
Berezansky, Leonid (*with* Braverman, Elena) On impulsive Beverton-Holt difference equations and their applications. (English summary) **2005e:39025**
Bernard, Olivier (*with* Bastin, Georges) On the estimation of the pseudo-stoichiometric matrix for macroscopic mass balance modelling of biotechnological processes. (English summary)
Beuter, Anne (*with* Edwards, Roderick; Titcombe, Michèle S.) Data analysis and mathematical modeling of human tremor. (*see* **2005a:92001**)
Bignone, Franco A. *see* **Bagnoli, Franco et al., 2005e:68106**
Biktimirov, T. Z. (*with* Butov, A. A.; Savinov, Yu. G.) Optimal control of the moment of spontaneous regression of a tumor. (Russian. Russian summary) **2005k:49110**
Bisegna, Paolo *see* **Amar, Micol et al., 2005f:35018**
Bogaerts, Philippe *see* **Haag, Jens E. et al., 2005j:92029**
Bowers, Roger G. *see* **White, Andrew R., 2005j:92019**
Bowman, C. *see* **Alexander, M. E. et al., 2005h:34103**
Braverman, Elena *see* **Berezansky, Leonid, 2005e:39025**
de Bruijn, N. G. A mathematical model for biological memory and consciousness. (*see* **2005d:03006**)
Burić, Nikola (*with* Grozdanović, Ines; Vasović, Nebojša) Type I vs. type II excitable systems with delayed coupling. (English summary) **2005g:34183**
Butov, A. A. *see* **Biktimirov, T. Z. et al., 2005k:49110**
Capasso, Vincenzo (*with* Bakstein, David) ★ An introduction to continuous-time stochastic processes. **2005g:60001**
Cârstea, A. S. *see* **Tamizhmani, K. M. et al., 2005e:92041**
Casey, William *see* **Ahlbrandt, Calvin et al., 2005b:92024**
Cecconi, Fabio *see* **Bagnoli, Franco et al., 2005e:68106**
Chalub, Fabio A. C. C. (*with* Markowich, Peter A.; Perthame, Benoît; Schmeiser, Christian) Kinetic models for chemotaxis and their drift-diffusion limits. (English summary) **2005a:92007**
Chauve, Cedric (*with* Fertin, Guillaume) On maximal instances for the original syntenic distance. (English summary) **2005i:92013**
Chellaboina, Vijaya-Sekhar *see* **Haddad, Wassim M., 2005g:93086**
Chen, Di-lan (*with* Sun, Ji-tao) Impulsive control of a advertising system. (English and Chinese summaries) **2005k:90061**
Chen, Si Yang *see* **Hei, Li Jun, 2005a:34104**
Chen, Yu Ming[1] (*with* Wang, Lu Sheng) Global attractivity of a circadian pacemaker model in a periodic environment. (English summary) **2005k:34262**
Coppersmith, Susan *see* **Aldana-González, Maximino et al., 2005g:37028**
Cox, Steven J. (*with* Wagner, Alfred) Lateral overdetermination of the FitzHugh-Nagumo system. (English summary) **2005k:35424**
Dai, Rongyang *see* **Li, Hong[6] et al.**
Daley, Mark (*with* Kari, Lila; McQuillan, Ian) Families of languages defined by ciliate bio-operations. (English summary) **2005a:68115**
Delitala, Marcello *see* **Bellomo, Nicola et al., 2005g:92028**
Dette, Holger (*with* Melas, V. B.; Pepelyshev, Andrey; Strigul, Nikolai) Robust and efficient design of experiments for the Monod model. (English summary)
Dimitrova, Neli (*with* Krastanov, Mikhail I.) Asymptotic stabilization of a biotechnological process with substrate inhibition. (English and Bulgarian summaries) (*see* **2005f:00011**)
Domokos, Gábor (*with* Healey, Timothy J.) Multiple helical perversions of finite, intristically curved rods. (English summary) **2005k:74048**
Dorman, Karin S. (*with* Sinsheimer, Janet S.; Lange, Kenneth) In the garden of branching processes. (English summary)
Drent, J. *see* **Luttikhuizen, P. C. et al.**
Du, Shi Ping (*with* Li, Hai) Second-order hidden Markov models and their application to computational linguistics. (Chinese. English and Chinese summaries) **2005a:60115**
Duarte, Jorge (*with* Sousa Ramos, José) Topological invariants in forced piecewise-linear FitzHugh-Nagumo-like systems. (English summary) **2005f:37192**
Edwards, Roderick *see* **Beuter, Anne et al., (2005a:92001)**
Ellis, George F. R. True complexity and its associated ontology.
Elphick, Christian *see* **Yochelis, Arik et al., 2005g:37099**
Engel-Herbert, H. *see* **Zykov, Vladimir, 2005g:35141**
Fan, Meng[1] *see* **Zhang, Wei Peng[1] et al.**
Fertin, Guillaume *see* **Chauve, Cedric, 2005i:92013**
Forger, Daniel B. (*with* Paydarfar, David) Starting, stopping, and resetting biological oscillators: in search of optimum perturbations. (English summary)
Fort, Joaquim *see* **Méndez, Vicenç et al., 2005c:35159**
Fossas i Colet, Enric (*with* Ros, Rosa M.; Sira-Ramirez, Hebertt J.) Passivity-based control of a bioreactor system. (English summary) **2005g:93082**
Fowler, Patrick W. *see* **Kovács, F. et al., 2005f:74057**
Gianni, Roberto *see* **Amar, Micol et al., 2005f:35018**
Gleiser, Marcelo The three origins: cosmos, life, and mind.
Gomatam, Jagannathan *see* **Amdjadi, Faridon, 2005m:35138**
Goudar, C. T. *see* **Sonnad, J. R., 2005h:65124**
Grammaticos, B. *see* **Tamizhmani, K. M. et al., 2005e:92041**
Grozdanović, Ines *see* **Burić, Nikola et al., 2005g:34183**
Guest, S. D. *see* **Kovács, F. et al., 2005f:74057**
Gumel, A. B. *see* **Alexander, M. E. et al., 2005h:34103**
Gunji, Yukio-Pegio *see* **Haruna, Taichi, 2005m:06007**
Guo, Jong-Shenq (*with* Ishimura, Naoyuki; Wu, Chin-Chin) Self-similar solutions for the kinematic model equation of spiral waves. (English summary) **2005g:35155**
Haag, Jens E. (*with* Vande Wouwer, Alain; Bogaerts, Philippe) Dynamic modeling of complex biological systems: a link between metabolic and macroscopic description. (English summary) **2005j:92029**
Haddad, Wassim M. (*with* Chellaboina, Vijaya-Sekhar) Stability and dissipativity theory for nonnegative dynamical systems: a unified analysis framework for biological and physiological systems. (English summary) **2005g:93086**
Hadeler, Karl P. (*with* Hillen, Thomas; Lutscher, Frithjof) The Langevin or Kramers approach to biological modeling. (English summary) **2005j:92007**
Hagberg, Aric *see* **Yochelis, Arik et al., 2005g:37099**
Haken, Hermann ★ Synergetics. **2005a:00006**
Haruna, Taichi (*with* Gunji, Yukio-Pegio) Autonomous indefiniteness versus external indefiniteness: theory of weak topped ∩-structure and its application to elementary local cellular automaton. (English summary) **2005m:06007**
Haslach, Henry W. (*with* Humphrey, Jay D.) Dynamics of biological soft tissue and rubber: internally pressurized spherical membranes surrounded by a fluid. (English summary) **2005e:74039**
Hayat, Tasawar *see* **Wang, Yongqi et al., 2005h:76103**
He, Tao[2] *see* **Li, Hong[6] et al.**
Healey, Timothy J. *see* **Domokos, Gábor, 2005k:74048**
Hei, Li Jun (*with* Chen, Si Yang) Global stability for a three-patch diffusion predator-prey model with time delays. (Chinese. English and Chinese summaries) **2005a:34104**
Hida, Takeyuki White noise analysis in mathematical biology. (English summary) **2005b:60173**
Hilker, F. M. *see* **Malchow, H. et al.**
Hillen, Thomas On the L^2-moment closure of transport equations: the Cattaneo approximation. (English summary) **2005g:35206**
— *see also* **Hadeler, Karl P. et al., 2005j:92007**
Honkoop, P. J. C. *see* **Luttikhuizen, P. C. et al.**
Huang, Wenzhang Traveling waves for a biological reaction-diffusion model. (English summary) **2005g:35175**
Humphrey, Jay D. *see* **Haslach, Henry W., 2005e:74039**
Huyghe, Jacques M. (*with* Van Loon, R.; Baaijens, Frank P. T.) Fluid-solid mixtures and electrochemomechanics: the simplicity of Lagrangian mixture theory. (English summary) **2005m:76209**
Ishimura, Naoyuki *see* **Guo, Jong-Shenq et al., 2005g:35155**
Istas, Jacques ★ Introduction aux modélisations mathématiques pour les sciences du vivant. (French) [Introduction to mathematical modelling for the life sciences] **2005j:60001**
Kadanoff, Leo P. *see* **Aldana-González, Maximino et al., 2005g:37028**
Karaa, Samir (*with* Zhang, Jun[2]; Yang, Fuqian) A numerical study of a 3D bioheat transfer problem with different spatial heating. (English summary) **2005m:80012**
Kari, Lila *see* **Daley, Mark et al., 2005a:68115**
Khrennikov, Andrei Yu. Representation of cognitive information by probability distributions on the space of neural trajectories. (Russian. Russian summary)

Kolesov, A. Yu. (*with* Rozov, Nikolaĭ Khristovich) Order and chaos in nonlinear media with diffusion. III. **2005h:35196**
Korotkikh, V. V. An approach to the mathematical theory of perception-based information. (English summary) (*see* **2005b:00019**)
Kovács, F. (*with* Tarnai, T.; Guest, S. D.; Fowler, Patrick W.) Double-link expandohedra: a mechanical model for expansion of a virus. (English summary) **2005f:74057**
Krastanov, Mikhail I. *see* **Dimitrova, Neli**, (**2005f:00011**)
Kumar, Ram Awadhesh *see* **Thakur, Raja Ram**
Kunze, Karsten (*with* Schaeben, Helmut) The Bingham distribution of quaternions and its spherical Radon transform in texture analysis. (English summary) **2005k:74018**
Lange, Kenneth *see* **Dorman, Karin S. et al.**
Li, Hai *see* **Du, Shi Ping**, **2005a:60115**
Li, Hong[6] (*with* Zhou, Zhiyuan; Dai, Rongyang; Luo, Bo; Zheng, Xiaoli; Yang, Wenli; He, Tao[2]; Wu, Minglu) Self-adaptive controls of a complex cellular signaling transduction system. (English summary)
Lim, Sookkyung (*with* Peskin, Charles S.) Simulations of the whirling instability by the immersed boundary method. (English summary) **2005f:74029**
Liu, Zhihong (*with* Wan, Richard; Muldrew, Ken; Sawchuk, Stephen; Rewcastle, John) A level set variational formulation for coupled phase change/mass transfer problems: application to freezing of biological systems. (English summary) **2005b:80007**
Locke, J. C. W. (*with* Millar, A. J.; Turner, Matthew Simon) Modelling genetic networks with noisy and varied experimental data: the circadian clock in *Arabidopsis thaliana*. (English summary)
Loskutov, A. Yu. (*with* Rybalko, Sergei; Zhuchkova, Ekaterina) A model of cardiac tissue as an excitable medium with two interacting pacemakers having refractory time. (English summary) (*see* **2005a:92003**)
Luo, Bo *see* **Li, Hong[6] et al.**
Lutscher, Frithjof *see* **Hadeler, Karl P. et al.**, **2005j:92007**
Luttikhuizen, P. C. (*with* Honkoop, P. J. C.; Drent, J.; van der Meer, Jaap) A general solution for optimal egg size during external fertilization, extended scope for intermediate optimal egg size and the introduction of Don Ottavio 'tango'. (English summary)
Malchow, H. (*with* Hilker, F. M.; Petrovskii, S. V.) Noise and productivity dependence of spatiotemporal pattern formation in a prey-predator system. (English summary)
Malinetskiĭ, G. G. (*with* Stepantsov, M. E.) Application of cellular automata to modeling the motion of a group of people. (Russian. Russian summary)
Markowich, Peter A. *see* **Chalub, Fabio A. C. C. et al.**, **2005a:92007**
McQuillan, Ian *see* **Daley, Mark et al.**, **2005a:68115**
van der Meer, Jaap *see* **Luttikhuizen, P. C. et al.**
Melas, V. B. *see* **Dette, Holger et al.**
Méndez, Vicenç (*with* Fort, Joaquim; Pujol, Toni) The speed of reaction-diffusion wavefronts in nonsteady media. (English summary) **2005c:35159**
Meron, Ehud *see* **Yochelis, Arik et al.**, **2005g:37099**
Millar, A. J. *see* **Locke, J. C. W. et al.**
Miyahara, Hideo *see* **Shimizu, Kazuhiko et al.**
Moghadas, S. M. *see* **Alexander, M. E. et al.**, **2005h:34103**
Moles, Carmen G. *see* **Banga, Julio R. et al.**, (**2005a:90005**)
Muldrew, Ken *see* **Liu, Zhihong et al.**, **2005b:80007**
(Nation, James) *see* **Formal descriptions of developing systems**, **2005f:92001**
Oster, George Clocks and patterns in Myxobacteria: a remembrance of Art Winfree. (English summary)
Ou-Yang, Z. C. *see* **Tu, Z. C.**, **2005g:74083**
Pamuk, Serdal An application for linear and nonlinear heat equations by Adomian's decomposition method. (English summary) **2005i:65157**
Paydarfar, David *see* **Forger, Daniel B.**
Pepelyshev, Andrey *see* **Dette, Holger et al.**
Perthame, Benoît *see* **Chalub, Fabio A. C. C. et al.**, **2005a:92007**
Peskin, Charles S. *see* **Lim, Sookkyung**, **2005f:74029**
Petrovskii, S. V. *see* **Malchow, H. et al.**
Politi, Antonio *see* **Bagnoli, Franco et al.**, **2005e:68106**
Pujol, Toni *see* **Méndez, Vicenç et al.**, **2005c:35159**
Ramani, A. *see* **Tamizhmani, K. M. et al.**, **2005e:92041**
(Rand, John D.) *see* **Formal descriptions of developing systems**, **2005f:92001**
Rewcastle, John *see* **Liu, Zhihong et al.**, **2005b:80007**
Ros, Rosa M. *see* **Fossas i Colet, Enric et al.**, **2005g:93082**
Rozov, Nikolaĭ Khristovich *see* **Kolesov, A. Yu.**, **2005h:35196**
Rybalko, Sergei *see* **Loskutov, A. Yu. et al.**, (**2005a:92003**)
Sabău, Vasile Sorin Systems biology and deviation curvature tensor. (English summary) **2005m:34018**
Sahai, B. M. *see* **Alexander, M. E. et al.**, **2005h:34103**
Savinov, Yu. G. *see* **Biktimirov, T. Z. et al.**, **2005k:49110**
Sawchuk, Stephen *see* **Liu, Zhihong et al.**, **2005b:80007**
Schaeben, Helmut *see* **Kunze, Karsten**, **2005k:74018**
Schmeiser, Christian *see* **Chalub, Fabio A. C. C. et al.**, **2005a:92007**
Shestakov, O. V. Algebraic methods for reconstructing the probability characteristics of multidimensional random functions. (Russian. Russian summary) **2005j:62121**
Shimizu, Kazuhiko (*with* Shirataka, Masuo; Tajiri, Hisako; Tanabe, Hayato; Miyahara, Hideo) Validity of a shortened test battery for evaluating ambulation and transfer activities in post-stroke patients by means of principal component analysis and Cronbach's alpha coefficient. (English summary)
Shirataka, Masuo *see* **Shimizu, Kazuhiko et al.**
Siddiqui, Abdul Majeed *see* **Wang, Yongqi et al.**, **2005h:76103**
Sinsheimer, Janet S. *see* **Dorman, Karin S. et al.**
Sira-Ramirez, Hebertt J. *see* **Fossas i Colet, Enric et al.**, **2005g:93082**
Sonnad, J. R. (*with* Goudar, C. T.) Solution of the Haldane equation for substrate inhibition enzyme kinetics using the decomposition method. (English summary) **2005h:65124**
Sousa Ramos, José *see* **Duarte, Jorge**, **2005f:37192**
Stepantsov, M. E. *see* **Malinetskiĭ, G. G.**
Stigter, J. D. (*with* Beck, M. B.) On the development and application of a continuous-discrete recursive prediction error algorithm. (English summary)
Strigul, Nikolai *see* **Dette, Holger et al.**
(Sulis, William H.) *see* **Formal descriptions of developing systems**, **2005f:92001**
Summers, Arthur Randolph *see* **Alexander, M. E. et al.**, **2005h:34103**
Sun, Ji-tao *see* **Chen, Di-lan**, **2005k:90061**
Tajiri, Hisako *see* **Shimizu, Kazuhiko et al.**
Tamizhmani, K. M. (*with* Ramani, A.; Grammaticos, B.; Cârstea, A. S.) Modelling AIDS epidemic and treatment with difference equations. **2005e:92041**
Tanabe, Hayato *see* **Shimizu, Kazuhiko et al.**
Tang, Yan Bin (*with* Zhou, Li[1]) Great time delay in a system with material cycling and delayed biomass growth. (English summary) **2005k:34303**
Tarnai, T. *see* **Kovács, F. et al.**, **2005f:74057**
Thakur, Raja Ram (*with* Kumar, Ram Awadhesh) On stochastic model of birth and process. (English summary)
Titcombe, Michèle S. *see* **Beuter, Anne et al.**, (**2005a:92001**)
(Trofimova, Irina) *see* **Formal descriptions of developing systems**, **2005f:92001**
Tu, Z. C. (*with* Ou-Yang, Z. C.) A geometric theory on the elasticity of bio-membranes. (English summary) **2005g:74083**
Turner, Matthew Simon *see* **Locke, J. C. W. et al.**
Vande Wouwer, Alain *see* **Haag, Jens E. et al.**, **2005j:92029**
Van Loon, R. *see* **Huyghe, Jacques M. et al.**, **2005m:76209**
Vasović, Nebojša *see* **Burić, Nikola et al.**, **2005g:34183**
Velázquez, J. J. L. Point dynamics in a singular limit of the Keller-Segel model. I. Motion of the concentration regions. (English summary) **2005b:35114**
— Point dynamics in a singular limit of the Keller-Segel model. II. Formation of the concentration regions. (English summary) **2005b:35115**
Wagner, Alfred *see* **Cox, Steven J.**, **2005k:35424**
Wan, Richard *see* **Liu, Zhihong et al.**, **2005b:80007**
Wang, Guan Jun (*with* Beaumont, Jacques) Parameter estimation of the Hodgkin-Huxley gating model: an inversion procedure. (English summary) **2005b:92015**
Wang, Lu Sheng *see* **Chen, Yu Ming[1]**, **2005k:34262**
Wang, Yongqi (*with* Hayat, Tasawar; Siddiqui, Abdul Majeed) Gliding motion of bacteria on power-law slime. (English summary) **2005h:76103**
White, Andrew R. (*with* Bowers, Roger G.) Adaptive dynamics of Lotka-Volterra systems with trade-offs: the role of interspecific parameter dependence in branching. (English summary) **2005j:92019**
(Winfree, Arthur T.) *see* **Oster, George**
Woodbury, Greg Sufficient conditions for equilibrium in dynamical systems. (English summary)
Wu, Chin-Chin *see* **Guo, Jong-Shenq et al.**, **2005g:35155**
Wu, Minglu *see* **Li, Hong[6] et al.**
Yang, Fuqian *see* **Karaa, Samir et al.**, **2005m:80012**
Yang, Wenli *see* **Li, Hong[6] et al.**
Ye, Dan *see* **Zhang, Wei Peng[1] et al.**
Yin, Yajun Integral theorems based on a new gradient operator derived from biomembranes. I. Fundamentals. (English summary)
— Integral theorems based on a new gradient operator derived from biomembranes. II. Applications. (English summary)
Yochelis, Arik (*with* Elphick, Christian; Hagberg, Aric; Meron, Ehud) Two-phase resonant patterns in forced oscillatory systems: boundaries, mechanisms and forms. (English summary) **2005g:37099**
Zbilut, Joseph P. ★ Unstable singularities and randomness. **2005k:37198**
Zhang, Jun[2] *see* **Karaa, Samir et al.**, **2005m:80012**
Zhang, Wei Peng[1] (*with* Fan, Meng[1]; Ye, Dan) Periodicity of a class of mathematical models arising in bioeconomics. (Chinese. English and Chinese summaries)
Zheng, Xiaoli *see* **Li, Hong[6] et al.**
Zhou, Li[1] *see* **Tang, Yan Bin**, **2005k:34303**
Zhou, Zhiyuan *see* **Li, Hong[6] et al.**
Zhuchkova, Ekaterina *see* **Loskutov, A. Yu. et al.**, (**2005a:92003**)
Zwierkowski, Piotr Stability of forward finite difference schemes for certain problems in biology. (English summary) **2005e:65127**
Zykov, Vladimir (*with* Engel-Herbert, H.) Feedback-mediated control of spiral waves. (English summary) **2005g:35141**

Items listed otherwise than by author

Formal descriptions of developing systems ★ Formal descriptions of developing systems. **2005f:92001**
Manoa, HI ★ Formal descriptions of developing systems. **2005f:92001**

92B10 Taxonomy, statistics

Items with secondary classifications in 92B10

Chiarulli, Donald *see* **Grigoryan, Vahan et al.**, (**2005i:62003**)
Grigoryan, Vahan (*with* Chiarulli, Donald; Hauskrecht, Milos) Subject filtering for passive biometric monitoring. (English summary) (*see* **2005i:62003**)
Hauskrecht, Milos *see* **Grigoryan, Vahan et al.**, (**2005i:62003**)

92B15 General biostatistics [see also 62P10]

Booij, Leo H. D. J. *see* **van den Broek, Philip L. C. et al.**
van den Broek, Philip L. C. (*with* van Egmond, Jan; van Rijn, Clementina M.; Takens, Floris; Coenen, Anton M. L.; Booij, Leo H. D. J.) Feasibility of real-time calculation of correlation integral derived statistics applied to EEG time series. (English summary)
Chen, Lan Sun *see* **Tao, Feng-mei et al.**
Coenen, Anton M. L. *see* **van den Broek, Philip L. C. et al.**
van Egmond, Jan *see* **van den Broek, Philip L. C. et al.**
Ewens, Warren J. (*with* Grant, Gregory R.) ★ Statistical methods in bioinformatics: an introduction. **2005g:92001**
Grant, Gregory R. *see* **Ewens, Warren J.**, **2005g:92001**

Li, Chun Hong (*with* Zhang, Zhong Zhan) Identification of the highest dose level for no increased toxicity response. (Chinese. English and Chinese summaries)
Okasha, Samir Multi-level selection, covariance and contextual analysis. (English summary)
van Rijn, Clementina M. *see* **van den Broek, Philip L. C. et al.**
Takens, Floris *see* **van den Broek, Philip L. C. et al.**
Tao, Feng-mei (*with* Chen, Lan Sun; Xia, Li-xian) Correspondence analysis of body form characteristics of Chinese ethnic groups. (English summary)
Xia, Li-xian *see* **Tao, Feng-mei et al.**
Zhang, Zhong Zhan *see* **Li, Chun Hong**

Items with secondary classifications in 92B15

Baba, Yasumasa *see* **Nakamura, Takahiro et al.**
Besalú, E. (*with* de Julián-Ortiz, J. V.) Equivalence of the Pecka-Ponec correlation probability and the statistical F significance for MLR models. (English summary) **2005g:62104**
Böckenholt, Ulf (*with* Kamakura, Wagner A.; Wedel, Michel) The structure of self-reported emotional experiences: a mixed-effects Poisson factor model. (English summary)
Bryant, Darryn *see* **Keith, Jonathan M. et al., 2005a:65006**
Burr, Tom (*with* Gattiker, James) The impact of model uncertainty on biological parameter estimates. (English summary)
Cai, Jianwen *see* **Schaubel, Douglas E., 2005e:62134**
Calle, M. Luz *see* **Oller, Ramon et al., 2005j:62198**
Chao, Anne (*with* Yang, Hsin-Chou; Yip, Paul S. F.) The use of capture-recapture methodology in epidemiological surveillance. (*see* **2005c:62003**)
Chen, Feng Statistical methods for dependent data. (*see* **2005c:62003**)
Chen, Gang[2] *see* **Chi, George Y. H. et al., (2005c:62003)**
Chen, James J. Statistics in toxicology. (English summary) (*see* **2005c:62003**)
Chen, Ming-Hui (*with* Ye, Keying) Bayesian methods. (*see* **2005c:62003**)
Chen, Tar Timothy History of statistical thinking in medicine. (*see* **2005c:62003**)
Cheng, Yuk W. (*with* Lawrence, Craig S.) Estimating the parameters of the statistical upper bound of dry hepatopancreas weight of yabbies (Cherax albidus) by the EM1 algorithm. (English summary)
Chi, George Y. H. (*with* Jin, Kun; Chen, Gang[2]; Cui, Lu) Some statistical issues of relevance to confirmatory trials. (*see* **2005c:62003**)
Chow, Shein-Chung (*with* Pong, Annpey) Statistics in biopharmaceutical research. (*see* **2005c:62003**)
Cui, Lu *see* **Chi, George Y. H. et al., (2005c:62003)**
Dauxois, Jean-Yves *see* **Kirmani, Syed N. U. A., 2005c:62080**
Dayananda, P. W. A. (*with* Kemper, John T.; Shvartsman, Mikhail M.) A stochastic model for prostate-specific antigen levels. (English summary)
Engel, Joachim Mathematik und Kriegsverbrechen: Wie viele Tote im Kosovo-Krieg? (German summary) [Mathematics and war crimes: how many dead in the Kosovo war?] **2005a:62237**
Engelen, S. (*with* Hubert, Mia; Vanden Branden, Karlien; Verboven, S.) Robust PCR and robust PLSR: a comparative study. (English summary) (*see* **2005c:62006**)
de Falco, Diego (*with* Goldwurm, Massimiliano; Lonati, Violetta) Pattern statistics in bicomponent stochastic models. (English summary) (*see* **2005c:68010**)
Fan, Jianqing (*with* Li, Runze) Local modeling: density estimation and nonparametric regression. (*see* **2005c:62003**)
Fang, Ji-Qian (*with* Hao, Yuantao) Quality of life: issues concerning assessment and analysis. (*see* **2005c:62003**)
— (*with* Li, Caixia) Stochastic processes and their applications in medical science. (English summary) (*see* **2005c:62003**)
— *see also* **Advanced medical statistics, 2005c:62003** *and* **Zhou, Xuyu et al., (2005c:62003)**
Fujie, Koichi *see* **Kunihiro, Tadao et al.** *and* **Nakamura, Takahiro et al.**
Fujita, Masafumi *see* **Kunihiro, Tadao et al.**
Gandolfi, Alberto[2] (*with* Sastri, C. C. A.) Nonparametric estimations about species not observed in a random sample. (English summary) **2005e:62149**
Gao, Sujuan Special models for sampling survey. (*see* **2005c:62003**)
Gattiker, James *see* **Burr, Tom**
van de Geer, Sara A. (*with* van Houwelingen, Hans C.) High-dimensional data: $p \gg n$ in mathematical statistics and bio-medical applications.
Geng, Zhi Causal inference. (*see* **2005c:62003**)
Glidden, David V. *see* **Vittinghoff, Eric et al.**
Goldwurm, Massimiliano *see* **de Falco, Diego et al., (2005c:68010)**
Gómez, Guadalupe *see* **Oller, Ramon et al., 2005j:62198**
Hao, Yuantao *see* **Fang, Ji-Qian, (2005c:62003)**
van Houwelingen, Hans C. *see* **van de Geer, Sara A.**
Hu, Hong Ying *see* **Kunihiro, Tadao et al.** *and* **Nakamura, Takahiro et al.**
Huang, Chao (*with* Xiao, Zhi Hong; Liu, Xian Long) A least squares estimate of covariance matrix in an extended growth curve model and its optimal property. (Chinese. English and Chinese summaries) **2005g:62126**
Hubert, Mia *see* **Engelen, S. et al., (2005c:62006)**
Imhof, Lorens A. (*with* Song, Dale; Wong, Weng Kee) Optimal design of experiments with anticipated pattern of missing observations. (English summary)
Iwasa, Yoh *see* **Schlicht, Robert**
Jacobsen, Judith L. *see* **Tornøe, Christoffer Wenzel et al., 2005c:92015**
Jin, Jesse S. Applications of statistical methods in medical imaging. (English summary) (*see* **2005c:62003**)
Jin, Kun *see* **Chi, George Y. H. et al., (2005c:62003)**
de Julián-Ortiz, J. V. *see* **Besalú, E., 2005g:62104**
Kamakura, Wagner A. *see* **Böckenholt, Ulf et al.**
Keith, Jonathan M. (*with* Kroese, Dirk P.; Bryant, Darryn) A generalized Markov sampler. (English summary) **2005a:65006**
Kemper, John T. *see* **Dayananda, P. W. A. et al.**
Kirmani, Syed N. U. A. (*with* Dauxois, Jean-Yves) Testing the Koziol-Green model against monotone conditional odds for censoring. (English summary) **2005c:62080**
Kowalski, Jeanne (*with* Powell, Jonathan) Nonparametric inference for stochastic linear hypotheses: application to high-dimensional data. (English summary) **2005b:62075**
Kroese, Dirk P. *see* **Keith, Jonathan M. et al., 2005a:65006**
Kunihiro, Tadao (*with* Fujita, Masafumi; Hu, Hong Ying; Fujie, Koichi) Dynamic analysis of microbial community structure and identification of refractory chemical-decomposing bacteria by combination of quinone-profiling method and PCR-DGGE technique. (Japanese. English and Japanese summaries)
Lai, Dejian *see* **Zhang, Jinxin et al., (2005c:62003)**
Lai, Tze Leung (*with* Shih, Mei-Chiung; Zhu, Guangrui) Statistics in pharmacology and pre-clinical studies. (*see* **2005c:62003**)
Lawrence, Craig S. *see* **Cheng, Yuk W.**
Li, Caixia *see* **Fang, Ji-Qian, (2005c:62003)**
Li, Jian Li[1] Cost-effectiveness analysis and evidence-based medicine. (*see* **2005c:62003**)
Li, Runze *see* **Fan, Jianqing, (2005c:62003)**
Li, Zhaohai (*with* Xie, Min Yu) Statistics in genetics. (*see* **2005c:62003**)
Lin, Danyu Y. Survival analysis. (*see* **2005c:62003**)
Liu, Chuanhai Maximum likelihood estimation from incomplete data via EM-type algorithms. (English summary) (*see* **2005c:62003**)
Liu, Qing[6] Statistical methods in the effect evaluation of mass screening for diseases. (English summary) (*see* **2005c:62003**)
Liu, Xian Long *see* **Huang, Chao et al., 2005g:62126**
Lonati, Violetta *see* **de Falco, Diego et al., (2005c:68010)**
Lu, Wenbin (*with* Ying, Zhiliang) On semiparametric transformation cure models. (English summary) **2005c:62063**
Lu, Ying (*with* Zhao, Shoujun) Statistics used in quality control, quality assurance, and quality improvement in radiological studies. (*see* **2005c:62003**)
— *see also* **Advanced medical statistics, 2005c:62003** *and* **Zhou, Xuyu et al., (2005c:62003)**
Madsen, Henrik O. *see* **Tornøe, Christoffer Wenzel et al., 2005c:92015**
McCulloch, Charles E. *see* **Vittinghoff, Eric et al.**
Nakamura, Takahiro (*with* Hu, Hong Ying; Fujie, Koichi; Baba, Yasumasa) Screening of quinone profile data using cluster analysis. (Japanese. English and Japanese summaries)
Oller, Ramon (*with* Gómez, Guadalupe; Calle, M. Luz) Interval censoring: model characterizations for the validity of the simplified likelihood. (English and French summaries) **2005j:62198**
Pong, Annpey *see* **Chow, Shein-Chung, (2005c:62003)**
Powell, Jonathan *see* **Kowalski, Jeanne, 2005b:62075**
Sastri, C. C. A. *see* **Gandolfi, Alberto**[2], **2005e:62149**
Schaubel, Douglas E. (*with* Cai, Jianwen) Regression methods for gap time hazard functions of sequentially ordered multivariate failure time data. (English summary) **2005e:62134**
Schlicht, Robert (*with* Iwasa, Yoh) Forest gap dynamics and the Ising model. (English summary)
Schnute, Jon T. Mathematics and fisheries: match or mismatch? (English summary)
Shiboski, Stephen C. *see* **Vittinghoff, Eric et al.**
Shih, Mei-Chiung *see* **Lai, Tze Leung et al., (2005c:62003)**
Shvartsman, Mikhail M. *see* **Dayananda, P. W. A. et al.**
Song, Dale *see* **Imhof, Lorens A. et al.**
Takanashi, Hirokazu A procedure for statistical evaluation of Ames *Salmonella* mutagenicity assay results based on two-sample t-test. (Japanese. English and Japanese summaries)
Tan, Ming Describing data, variability and over-dispersion in medical research. (*see* **2005c:62003**)
Tornøe, Christoffer Wenzel (*with* Jacobsen, Judith L.; Madsen, Henrik O.) Grey-box pharmacokinetic/pharmacodynamic modelling of a euglycaemic clamp study. (English summary) **2005c:92015**
Vanden Branden, Karlien *see* **Engelen, S. et al., (2005c:62006)**
Verboven, S. *see* **Engelen, S. et al., (2005c:62006)**
Vittinghoff, Eric (*with* Glidden, David V.; Shiboski, Stephen C.; McCulloch, Charles E.) ★ Regression methods in biostatistics.
Wedel, Michel *see* **Böckenholt, Ulf et al.**
Wilson, Simon P. Modeling the reliability of hip replacements. (English summary) (*see* **2005a:62018**)
Wong, Weng Kee *see* **Imhof, Lorens A. et al.**
Woodworth, George G. ★ Biostatistics. **2005c:62198**
Wu, Colin O. (*with* Yu, Kai F.) Regression models for the analysis of longitudinal data. (*see* **2005c:62003**)
Wu, Hulin (*with* Zhao, Shoujun) Statistical models and methods in infectious diseases. (*see* **2005c:62003**)
Xiao, Zhi Hong *see* **Huang, Chao et al., 2005g:62126**
Xie, Min Yu *see* **Li, Zhaohai, (2005c:62003)**
Xu, Zongli *see* **Zhou, Xuyu et al., (2005c:62003)**
Yang, Hsin-Chou *see* **Chao, Anne et al., (2005c:62003)**
Ye, Keying *see* **Chen, Ming-Hui, (2005c:62003)**
Ying, Zhiliang *see* **Lu, Wenbin, 2005c:62063**
Yip, Paul S. F. *see* **Chao, Anne et al., (2005c:62003)**
Yu, Chuanhua *see* **Zhou, Xuyu et al., (2005c:62003)**
Yu, Kai F. *see* **Wu, Colin O., (2005c:62003)**
Zhang, He Ping[1] Tree-based methods. (*see* **2005c:62003**)
Zhang, Jinxin (*with* Zheng, Yingdong; Lai, Dejian) Time series analysis and its applications in medical sciences. (*see* **2005c:62003**)
Zhao, Shoujun *see* **Lu, Ying, (2005c:62003)** *and* **Wu, Hulin, (2005c:62003)**
Zheng, Yingdong *see* **Zhang, Jinxin et al., (2005c:62003)**
Zhou, Xiao-Hua Evaluation of diagnostic test's accuracy in the presence of verification bias. (*see* **2005c:62003**)
Zhou, Xuyu (*with* Fang, Ji-Qian; Yu, Chuanhua; Xu, Zongli; Lu, Ying) Meta-analysis. (English summary) (*see* **2005c:62003**)
Zhu, Guangrui *see* **Lai, Tze Leung et al., (2005c:62003)**
Zhu, Yiliang Dose-response modeling in health risk assessment. (English summary) (*see* **2005c:62003**)

Items listed otherwise than by author

Advanced medical statistics ★ Advanced medical statistics. **2005c:62003**

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Baruchi, Itay *see* **Volman, Vladislav et al., 2005g:92002**
Bedaux, Jasper (*with* van Leeuwen, W. A.) Biologically inspired learning in a layered neural net. (English summary) **2005d:92002**
Ben-Jacob, Eshel *see* **Volman, Vladislav et al., 2005g:92002**
Campbell, Sue Ann (*with* Edwards, Roderick; van den Driessche, P.) Delayed coupling between two neural network loops. (English summary) **2005h:92002**
— *see also* **Ncube, Israel et al., 2005c:92001**
Cao, Jin De (*with* Jiang, Qiuhao) An analysis of periodic solutions of bi-directional associative memory networks with time-varying delays. (English summary)
Chattopadhyay, Surajit *see* **Chaudhuri, Sutapa**
Chaudhuri, Sutapa (*with* Chattopadhyay, Surajit) Convergence of feed forward neural network—a different approach. (English summary)
Curtu, Rodica *see* **Oşan, Remus et al., 2005a:92005**
van den Driessche, P. *see* **Campbell, Sue Ann et al., 2005h:92002**
Dumitrescu, Dan (*with* Simon, Károly[2]) Evolutionary RBF neural network design. (English summary)
Edwards, Roderick *see* **Campbell, Sue Ann et al., 2005h:92002**
Enculescu, M. A note on traveling fronts and pulses in a firing rate model of a neuronal network. (English summary) **2005d:92003**
Ermentrout, George Bard *see* **Oşan, Remus et al., 2005a:92005**
Fleury, Gilles Alain (*with* Hero, A. O., III; Zareparsi, S.; Swaroop, Anand) Gene discovery using Pareto depth sampling distributions. (English summary) **2005a:92004**
Gopalsamy, K. Stability of artificial neural networks with impulses. (English summary) **2005d:92004**
Grabowski, A. (*with* Kosiński, R. A.; Krawiecki, A.) Dynamics of a one-dimensional neural network with a "small world"—topology of synaptic connections. (English summary)
Hero, A. O., III *see* **Fleury, Gilles Alain et al., 2005a:92004**
Jiang, Qiuhao *see* **Cao, Jin De**
Karlik, Bekir Hierarchical neural network based compression of ECG signals. (English summary) (*see* **2005c:00014**)
Kosiński, R. A. *see* **Grabowski, A. et al.**
Krawiecki, A. *see* **Grabowski, A. et al.**
van Leeuwen, W. A. *see* **Bedaux, Jasper, 2005d:92002**
Ma, Run Nian *see* **Zhang, Qiang[5], 2005j:92005**
Ncube, Israel (*with* Campbell, Sue Ann; Vrscay, E. R.) Stationary densities and the stochastic approximation of a certain class of random algorithms. (English summary) **2005c:92001**
Oşan, Remus (*with* Curtu, Rodica; Rubin, Jonathan E.; Ermentrout, George Bard) Multiple-spike waves in a one-dimensional integrate-and-fire neural network. (English summary) **2005a:92005**
Persi, Erez *see* **Volman, Vladislav et al., 2005g:92002**
Rubin, Jonathan E. *see* **Oşan, Remus et al., 2005a:92005**
Seung, H. Sebastian *see* **Xie, Xiaohui, 2005e:92004**
Simon, Károly[2] *see* **Dumitrescu, Dan**
Slavova, Angela Nonlinear cellular neural networks with special output dynamics. (English summary) **2005i:92002**
Swaroop, Anand *see* **Fleury, Gilles Alain et al., 2005a:92004**
Szasz, A. *see* **Vincze, Gy. et al., 2005c:92002**
Vincze, Gy. (*with* Zsoldos, I.; Szasz, A.) On the Aboav-Weaire law. (English summary) **2005c:92002**
Volman, Vladislav (*with* Baruchi, Itay; Persi, Erez; Ben-Jacob, Eshel) Generative modelling of regulated dynamical behavior in cultured neuronal networks. (English summary) **2005g:92002**
Vrscay, E. R. *see* **Ncube, Israel et al., 2005c:92001**
Xie, Xiaohui (*with* Seung, H. Sebastian) Learning in neural networks by reinforcement of irregular spiking. (English summary) **2005e:92004**
Zareparsi, S. *see* **Fleury, Gilles Alain et al., 2005a:92004**
Zhang, Qiang[5] (*with* Ma, Run Nian) Delay-dependent stability of cellular neural networks with delays. (Chinese. English and Chinese summaries) **2005j:92005**
Zsoldos, I. *see* **Vincze, Gy. et al., 2005c:92002**

Items with secondary classifications in 92B20

Aihara, Kazuyuki *see* **Tomioka, Ryota et al.**
Akça, Haydar *see* **Kovachev, V. Chr. et al., 2005e:39028**
Al-Zahrani, Eada Ahmed *see* **Kovachev, V. Chr. et al., 2005e:39028**
Anderson, Charles H. *see* **Barber, M. J. et al., 2005a:92009**
Aracena, Julio (*with* Demongeot, Jacques; Goles Ch., Eric) On limit cycles of monotone functions with symmetric connection graph. (English summary) **2005m:37028**
(Arbib, Michael A.) *see* **Handbook of brain theory and neural networks, 2005m:68002**
Arik, Sabri *see* **Yucel, Eylem, 2005c:34156**
Asari, Vijayan K. *see* **Seow, Ming-Jung**
Ashino, Ryuichi (*with* Morimoto, Akira) Pre-processing design for multiwavelet filters using neural networks. (English summary) (*see* **2005i:42002**)
Atay, Fatihcan M. (*with* Hutt, Axel) Stability and bifurcations in neural fields with finite propagation speed and general connectivity. (English summary) **2005m:34174**
Aubin, Jane E. *see* **Nagarajan, Radhakrishnan et al.**
Balázs, Adamcsek *see* **Gulyás, László et al., 2005m:91079**
Barber, M. J. (*with* Clark, John W.; Anderson, Charles H.) Generating neural circuits that implement probabilistic reasoning. (English summary) **2005a:92009**
Bielecki, Andrzej Mathematical principles of artificial neural networks. (Polish) **2005f:68132**
Bin, Honghua (*with* Huang, Li Hong[1]) Behavior of solutions for a class of difference systems. (English summary) **2005h:39020**
Boĭkov, I. V. On the stability of Hopfield neural networks. (Russian. Russian summary) **2005h:34129**
Bologna, Guido Is it worth generating rules from neural network ensembles? (English summary)
Bolouri, Hamid *see* **Orrell, David**
Burger, Martin (*with* Hofinger, A.) Regularized greedy algorithms for network training with data noise. (English summary) **2005m:41056**
Campbell, Sue Ann *see* **Yuan, Yuan[2], 2005i:34097**
Cao, Jin De (*with* Chen, Tian Ping) Globally exponentially robust stability and periodicity of delayed neural networks. (English summary) **2005e:93108**
— (*with* Liang, Jinling) Boundedness and stability for Cohen-Grossberg neural network with time-varying delays. (English summary) **2005e:34208**
— (*with* Liang, Jinling; Lam, James) Exponential stability of high-order bidirectional associative memory neural networks with time delays. (English summary) **2005g:34187**
— *see also* **Liang, Jinling, 2005d:34160; 2005f:34214** *and* **Huang, He et al., 2005i:82056**
Cao, Li Ping *see* **Liu, Yi Guang et al.**
Chen, An Ping[2] (*with* Huang, Li Hong[1]) Existence and global exponential stability conditions of almost periodic solution in DCNNs with variable coefficients. (English summary) **2005a:34101**
Chen, Feng De (*with* Lin, Fa Xing; Chen, Xiao Xing) Sufficient conditions for the existence positive periodic solutions of a class of neutral delay models with feedback control. (English summary) **2005f:34187**
Chen, Guanrong *see* **Liao, Xiaofeng et al.**
Chen, Shi Hua[3] (*with* Zhang, Qin; Wang, Chang Ping[2]) Existence and stability of equilibria of the continuous-time Hopfield neural network. (English summary) **2005i:37103**
Chen, Tian Ping *see* **Zheng, Yanxu, 2005d:34167; Cao, Jin De, 2005e:93108** *and* **Rong, Libin et al., 2005f:34217**
Chen, Wan Yi Global asymptotic stability for a class of Hopfield neural networks with delays. (Chinese. English and Chinese summaries)
Chen, Wu Hua (*with* Guan, Zhi Hong; Lu, Xiao Mei) Delay-dependent exponential stability of neural networks with variable delays. (English summary) **2005g:82103**
Chen, Xiao Xing *see* **Chen, Feng De et al., 2005f:34187**
Cheng, Dai Zhan *see* **Wang, QuanFang et al., 2005a:93049**
Chi, Zheru *see* **Huang, De-Shuang et al., 2005i:65073**
Cho, E. C. *see* **Iyengar, S. Sitharama et al., 2005d:94034**
Chow, Shui-Nee (*with* Lara, Teodoro) Neurons: a numerical approach. (English and Spanish summaries) **2005j:37147**
Chua, Leon O. *see* **Itoh, Makoto, 2005b:37019** *and* **2005i:37031**
Clark, John W. *see* **Barber, M. J. et al., 2005a:92009**
Coolen, A. C. C. *see* **Hatchett, J. P. L., 2005c:82072; Pérez Castillo, I. et al., 2005e:82091** *and* **Wemmenhove, B. et al., 2005f:82093**
Covacheva, Z. *see* **Kovachev, V. Chr. et al., 2005e:39028**
Dai, Binxiang (*with* Qian, Xiang Zheng; Huang, Li Hong[1]) Convergence of solutions for a discrete-time system. (English summary) (*see* **2005c:39001**)
— (*with* Qian, Xiang Zheng; Huang, Li Hong[1]; Guo, Shangjiang) Asymptotic behavior of a neural network model with dynamical threshold. (English summary) **2005e:34231**
Daido, Hiroaki *see* **Zhai, Yumei et al.**
Datta, Amitava *see* **Pal, Srimanta et al.**
Demongeot, Jacques *see* **Aracena, Julio et al., 2005m:37028**
(De Schutter, Erik) *see* **Computational neuroscience, 2005j:92002**
Diligenti, Michelangelo (*with* Gori, Marco; Maggini, Marco) Neural computation, social networks, and topological spectra. (English summary) **2005c:91109**
Ding, Mingzhou *see* **Feng, Jian Feng[1], 2005g:82104**
Dogaru, Radu ★ Universality and emergent computation in cellular neural networks. **2005e:82090**
Dorogovtsev, Sergei N. (*with* Mendes, José F. F.) ★ Evolution of networks. **2005d:05002**
Dzhafarov, Ehtibar N. (*with* Schweickert, Richard; Sung, Kyongje) Mental architectures with selectively influenced but stochastically interdependent components. (English summary) **2005f:91114**
Edwards, Roderick (*with* McDonald, Judith J.; Tsatsomeros, Michael J.) On matrices with common invariant cones with applications in neural and gene networks. (English summary) **2005i:15035**
Evans, David John[1] *see* **Yang, Xiaofan et al., 2005m:34187**
Fan, Meng[1] (*with* Zou, Xingfu) Global asymptotic stability of a class of nonautonomous integro-differential systems and applications. (English summary) **2005b:34137**
Feng, Chun Bo *see* **Sun, Changyin, 2005j:34106**
Feng, De Xing *see* **Wang, QuanFang et al., 2005a:93049**
Feng, Jian Feng[1] (*with* Ding, Mingzhou) Decoding spikes in a spiking neuronal network. (English summary) **2005g:82104**
Glass, Leon *see* **Perkins, Theodore J. et al.**
Goles Ch., Eric *see* **Aracena, Julio et al., 2005m:37028**
Gori, Marco *see* **Diligenti, Michelangelo et al., 2005c:91109**
Guan, Zhi Hong *see* **Chen, Wu Hua et al., 2005g:82103**
Gulyás, László (*with* Balázs, Adamcsek; Kiss, Árpád) An early agent-based stock market: replication and participation. (English summary) **2005m:91079**
Guo, Shangjiang (*with* Huang, Li Hong[1]) Periodic oscillation for a class of delay difference systems. (English summary) **2005f:39033**
— (*with* Huang, Li Hong[1]; Wang, Lin[3]) Exponential stability of discrete-time Hopfield neural networks. (English summary) **2005k:82077**
— *see also* **Dai, Binxiang et al., 2005e:34231**
Hadeler, Karl P. (*with* Kuttler, Christina; Nussbaum, Alexander K.) Cleaving proteins for the immune system. (English summary) **2005a:92017**
Haken, Hermann ★ Synergetic computers and cognition. **2005e:68207**
Hallett, Michael T. *see* **Perkins, Theodore J. et al.**
Han, Mao An *see* **Song, Yong Li et al., 2005h:37214**
Hatchett, J. P. L. (*with* Coolen, A. C. C.) Asymmetrically extremely dilute neural networks with Langevin dynamics and unconventional results. (English summary) **2005c:82072**
— *see also* **Pérez Castillo, I. et al., 2005e:82091**
Hayashi, Hatsuo *see* **Tateno, Katsumi et al., 2005b:37211**

Heidel, Jack *see* **Matache, Mihaela T.**
(Hirose, Akira) *see* **Complex-valued neural networks, 2005b:00018**
Hofinger, A. *see* **Burger, Martin, 2005m:41056**
Horace, H. S. Ip *see* **Huang, De-Shuang et al., 2005i:65073**
Hu, Dewen *see* **Yuan, Zhaohui et al., 2005j:37075**
Huang, De-Shuang (*with* Zhao, Wen-Bo) Determining the centres of radial basis probabilistic neural networks by recursive orthogonal least square algorithms. (English summary)
— (*with* Horace, H. S. Ip; Law, Ken Chee Keung; Chi, Zheru; Wong, H. S.) A new partitioning neural network model for recursively finding arbitrary roots of higher order arbitrary polynomials. (English summary) **2005i:65073**
Huang, He (*with* Cao, Jin De; Qu, Yuzhong) Global robust stability of delayed neural networks with a class of general activation functions. (English summary) **2005i:82056**
Huang, Li Hong[1] *see* **Chen, An Ping[2], 2005a:34101**; **Dai, Binxiang et al., 2005e:34231**; **(2005c:39001)**; **Guo, Shangjiang et al., 2005f:39033**; **2005k:82077**; **Bin, Honghua, 2005h:39020**; **Yuan, Zhaohui et al., 2005j:37075**; **(2005c:39001)** *and* **Zhu, Huiyan, 2005m:39034**
Hudson, John L. *see* **Zhai, Yumei et al.**
Hutt, Axel *see* **Atay, Fatihcan M., 2005m:34174**
Ishizuka, Satoru *see* **Tateno, Katsumi et al., 2005b:37211**
Itoh, Makoto (*with* Chua, Leon O.) Star cellular neural networks for associative and dynamic memories. (English summary) **2005b:37019**
— (*with* Chua, Leon O.) Multipurpose hysteresis CNN. (English summary) **2005i:37031**
Ivanov, Anatoliĭ Fedorovich (*with* Lani-Wayda, Bernhard) Periodic solutions for three-dimensional non-monotone cyclic systems with time delays. (English summary) **2005f:34191**
Iyengar, S. Sitharama (*with* Cho, E. C.; Phoha, Vir V.) ★ Foundations of wavelet networks and applications. **2005d:94034**
Jiang, Hongwei *see* **Xia, Jielai et al., (2005c:62003)**
Kawamura, Masaki *see* **Mimura, Kazushi et al., 2005c:82074**
Khrennikov, Andrei Yu. (*with* Nilsson, Marcus) ★ p-adic deterministic and random dynamics. **2005h:37102**
Kimura, Hidenori *see* **Tomioka, Ryota et al.**
Kiss, Árpád *see* **Gulyás, László et al., 2005m:91079**
Kiss, István Z. *see* **Zhai, Yumei et al.**
Kobayashi, Tetsuya J. *see* **Tomioka, Ryota et al.**
Kovachev, V. Chr. (*with* Akça, Haydar; Covacheva, Z.; Al-Zahrani, Eada Ahmed) A discrete counterpart of a continuous-time additive Hopfield-type neural network with impulses in an integral form. (English summary) **2005e:39028**
Kuttler, Christina *see* **Hadeler, Karl P. et al., 2005a:92017**
Lam, James *see* **Cao, Jin De et al., 2005g:34187**
Lani-Wayda, Bernhard *see* **Ivanov, Anatoliĭ Fedorovich, 2005f:34191**
Lara, Teodoro *see* **Chow, Shui-Nee, 2005j:37147**
Law, Ken Chee Keung *see* **Huang, De-Shuang et al., 2005i:65073**
Leitgeb, Hannes Nonmonotonic reasoning by inhibition nets. II. (English summary) **2005e:68208**
Levin, Simon A. *see* **Nakamaru, Mayuko**
Lewis, Frank L. *see* **Narendra, Kumpati S.**
Li, Chuandong (*with* Liao, Xiaofeng; Zhang, Rong[3]) Delay-dependent exponential stability analysis of bi-directional associative memory neural networks with time delay: an LMI approach. (English summary) **2005h:34201**
— *see also* **Liao, Xiaofeng, 2005i:34094**
Li, Chun Guang *see* **Liao, Xiaofeng et al., 2005b:34159**
Li, Yong Kun Existence and stability of periodic solution for BAM neural networks with distributed delays. (English summary) **2005m:34178**
— (*with* Liu, Ping[1]) Existence and stability of positive periodic solution for BAM neural networks with delays. (English summary) **2005h:34187**
Liang, Jinling (*with* Cao, Jin De) Global asymptotic stability of bi-directional associative memory networks with distributed delays. (English summary) **2005f:34214**
— (*with* Cao, Jin De) Exponential stability of continuous-time and discrete-time bidirectional associative memory networks with delays. (English summary) **2005d:34160**
— *see also* **Cao, Jin De et al., 2005e:34208** *and* **2005g:34187**
Liao, Xiao Xin *see* **Zhang, Yu Min et al., 2005c:34169**
Liao, Xiaofeng (*with* Chen, Guanrong; Sanchez, Edgar N.) Corrections to: "LMI-based approach for asymptotically stability analysis of delayed neural networks" [IEEE Trans. Circuits Systems I Fund. Theory Appl. **49** (2002), no. 7, 1033–1039; MR1916631 (2004h:82087)].
— (*with* Wong, Kwok-Wo; Li, Chun Guang) Global exponential stability for a class of generalized neural networks with distributed delays. (English summary) **2005b:34159**
— (*with* Li, Chuandong) An LMI approach to asymptotical stability of multi-delayed neural networks. (English summary) **2005i:34094**
— *see also* **Li, Chuandong et al., 2005h:34201**; **Tu, Fenghua, 2005m:34184** *and* **Yang, Xiaofan et al., 2005m:34187**
Lin, Fa Xing *see* **Chen, Feng De et al., 2005f:34187**
Lin, Song-Sun (*with* Lin, Wen Wei; Yang, Ting-Hui) Bifurcations and chaos in two-cell cellular neural networks with periodic inputs. (English summary) **2005f:37193**
Lin, Wen Wei *see* **Lin, Song-Sun et al., 2005f:37193**
Liu, Jiang[2] Global exponential stability of Cohen-Grossberg neural networks with time-varying delays. (English summary) **2005m:34179**
Liu, Kaiyu (*with* Zhang, Hongqiang) Asymptotic behavior in nonlinear discrete-time neural networks with delayed feedback. (English summary) **2005d:39068**
Liu, Ping[1] *see* **Li, Yong Kun, 2005h:34187**
Liu, Rong Song *see* **Ruan, Jiong et al., 2005a:37056**
Liu, Xiang Dong *see* **Xiu, Chunbo et al., 2005e:82092**
Liu, Yi Guang (*with* You, Zhi Sheng; Cao, Li Ping) Dynamical behaviors of Hopfield neural network with multilevel activation functions. (English summary)
Longhini, Patrick *see* **Palacios, Antonio, 2005c:37043**
Lu, Wenlian *see* **Rong, Libin et al., 2005f:34217**
Lu, Xiao Mei *see* **Chen, Wu Hua et al., 2005g:82103**
Maggini, Marco *see* **Diligenti, Michelangelo et al., 2005c:91109**
Mange, Daniel (*with* Stauffer, André; Petraglio, Enrico; Tempesti, Gianluca) Self-replicating loop with universal construction. (English summary) **2005c:68190**
Matache, Mihaela T. (*with* Heidel, Jack) Asynchronous random Boolean network model based on elementary cellular automata rule 126. (English summary)
Matteucci, Matteo (*with* Spadoni, Dario) Evolutionary learning of rich neural networks in the Bayesian model selection framework. (English summary)
McDonald, Judith J. *see* **Edwards, Roderick et al., 2005i:15035**
Megson, Graham M. *see* **Yang, Xiaofan et al., 2005m:34187**
Mendes, José F. F. *see* **Dorogovtsev, Sergei N., 2005d:05002**
Mimura, Kazushi (*with* Kawamura, Masaki; Okada, Masato) The path-integral analysis of an associative memory model storing an infinite number of finite limit cycles. (English summary) **2005c:82074**
Morimoto, Akira *see* **Ashino, Ryuichi, (2005i:42002)**
Nagarajan, Radhakrishnan (*with* Aubin, Jane E.; Peterson, Charlotte A.) Modeling genetic networks from clonal analysis. (English summary)
Nakamaru, Mayuko (*with* Levin, Simon A.) Spread of two linked social norms on complex interaction networks. (English summary)
Narendra, Kumpati S. (*with* Lewis, Frank L.) Editorial [Special issue on neural network feedback control].
Nemoto, Iku Complex associative memory and complex single neuron model. (*see* **2005b:00018**)
Newman, Mark E. J. The structure and function of complex networks. (English summary) **2005a:05206**
— *see also* **Park, Juyong, 2005k:82032**
Nikoletopoulos, T. *see* **Pérez Castillo, I. et al., 2005e:82091**
Nilsson, Marcus *see* **Khrennikov, Andrei Yu., 2005h:37102**
Nussbaum, Alexander K. *see* **Hadeler, Karl P. et al., 2005a:92017**
Okada, Masato *see* **Mimura, Kazushi et al., 2005c:82074**
Orrell, David (*with* Bolouri, Hamid) Control of internal and external noise in genetic regulatory networks. (English summary)
Pal, Nikhil R. *see* **Pal, Srimanta et al.**
Pal, Srimanta (*with* Pal, Nikhil R.; Datta, Amitava) A multi-layer dynamic neural network for convex-hull computation. (English summary)
Palacios, Antonio (*with* Longhini, Patrick) Cycling behavior in near-identical cell systems. (English summary) **2005c:37043**
Park, Juyong (*with* Newman, Mark E. J.) Solution of the two-star model of a network. (English summary) **2005k:82032**
Pérez Castillo, I. (*with* Wemmenhove, B.; Hatchett, J. P. L.; Coolen, A. C. C.; Skantzos, N. S.; Nikoletopoulos, T.) Analytic solution of attractor neural networks on scale-free graphs. (English summary) **2005e:82091**
Perkins, Theodore J. (*with* Hallett, Michael T.; Glass, Leon) Inferring models of gene expression dynamics. (English summary)
Peterson, Charlotte A. *see* **Nagarajan, Radhakrishnan et al.**
Petraglio, Enrico *see* **Mange, Daniel et al., 2005c:68190**
Phaneendra, Bh. R. M. *see* **Sree Hari Rao, V., 2005b:34163**
Phoha, Vir V. *see* **Iyengar, S. Sitharama et al., 2005d:94034**
Qian, Xiang Zheng *see* **Dai, Binxiang et al., 2005e:34231** *and* **(2005c:39001)**
Qu, Yuzhong *see* **Huang, He et al., 2005i:82056**
Ritt, Jason Evaluation of entrainment of a nonlinear neural oscillator to white noise. (English summary) **2005j:92012**
Rohde, Jens Hierarchical supply chain planning using artificial neural networks to anticipate base-level outcomes. (English summary)
Rong, Libin (*with* Lu, Wenlian; Chen, Tian Ping) Global exponential stability in Hopfield and bidirectional associative memory neural networks with time delays. (English summary) **2005f:34217**
Roska, Tamás *see* **Török, Levente, 2005g:37173**
Ruan, Jiong (*with* Zhao, Wei Rui; Liu, Rong Song) Chaos in transiently chaotic neural networks. (Chinese. English and Chinese summaries) **2005a:37056**
Sanchez, Edgar N. *see* **Liao, Xiaofeng et al.**
Schweickert, Richard *see* **Dzhafarov, Ehtibar N. et al., 2005f:91114**
Seow, Ming-Jung (*with* Asari, Vijayan K.) Ratio rule for recurrent neural network based associative recall of multilevel patterns. (English summary)
Shen, Yi[2] *see* **Zhang, Yu Min et al., 2005c:34169**
Skantzos, N. S. *see* **Pérez Castillo, I. et al., 2005e:82091** *and* **Wemmenhove, B. et al., 2005f:82093**
Solodova, E. A. An equation with delay—a fundamental model of self-organizing systems. (Russian. Russian summary) (*see* **2005f:37002**)
Song, Qian Kun (*with* Zhao, Zhen Jiang) Global dissipativity of neural networks with both variable and unbounded delays. (English summary) **2005m:34182**
Song, Yong Li (*with* Han, Mao An; Wei, Jun Jie) Stability and Hopf bifurcation analysis on a simplified BAM neural network with delays. (English summary) **2005h:37214**
Spadoni, Dario *see* **Matteucci, Matteo**
Sree Hari Rao, V. (*with* Phaneendra, Bh. R. M.) Dynamics of bidirectional associative memory networks with processing delays. (English summary) **2005b:34163**
Stamov, Gani Tr. Impulsive cellular neural networks and almost periodicity. (English summary) **2005h:34216**
Stauffer, André *see* **Mange, Daniel et al., 2005c:68190**
Sun, Changyin (*with* Feng, Chun Bo) Discrete-time analogues of integrodifferential equations modeling neural networks. (English summary) **2005j:34106**
Sung, Kyongje *see* **Dzhafarov, Ehtibar N. et al., 2005f:91114**
Talaván, Pedro M. (*with* Yañez Gestoso, Javier) A continuous Hopfield network equilibrium points algorithm. (English summary) **2005i:68073**
Tan, Kok Kiong *see* **Zhang, Yi[1], 2005g:37058**
Tang, Qiyi *see* **Xia, Jielai et al., (2005c:62003)**
Tang, Yunyu *see* **Xiu, Chunbo et al., 2005e:82092**
Tateno, Katsumi (*with* Tomonari, Hideyuki; Hayashi, Hatsuo; Ishizuka, Satoru) Phase dependent transition between multistable states in a neural network with reciprocal inhibition. (English summary) **2005b:37211**
Tempesti, Gianluca *see* **Mange, Daniel et al., 2005c:68190**
Tomioka, Ryota (*with* Kimura, Hidenori; Kobayashi, Tetsuya J.; Aihara, Kazuyuki)

Multivariate analysis of noise in genetic regulatory networks. (English summary)
Tomonari, Hideyuki *see* **Tateno, Katsumi et al., 2005b:37211**
Török, Levente (*with* Roska, Tamás) Stability of multi-layer cellular neural/nonlinear networks. (English summary) **2005g:37173**
Tsatsomeros, Michael J. *see* **Edwards, Roderick et al., 2005i:15035**
Tu, Fenghua (*with* Liao, Xiaofeng) Harmless delays for global asymptotic stability of Cohen-Grossberg neural networks. (English summary) **2005m:34184**
Velarde, Manuel G. *see* **Wei, Jun Jie, 2005f:34238**
Voutsadakis, George The categories of finitary binary functions and finite automata networks. (English summary) **2005j:18003**
Wang, Chang Ping[2] *see* **Chen, Shi Hua[3] et al., 2005i:37103**
Wang, Guang Lan *see* **Zhao, Hong Yong**
Wang, Lin[3] (*with* Zou, Xingfu) Exponential stability of delay difference equations with applications to neural networks. (English summary) **2005d:39053**
— (*with* Zou, Xingfu) Hopf bifurcation in bidirectional associative memory neural networks with delays: analysis and computation. (English summary) **2005c:37091**
— Stabilizing Hopfield neural networks via inhibitory self-connections. (English summary) **2005b:37212**
— Stability of Cohen-Grossberg neural networks with distributed delays. (English summary) **2005g:34196**
— *see also* **Guo, Shangjiang et al., 2005k:82077**
Wang, Quan Yi *see* **Xie, Huiqin, 2005g:34175**
Wang, QuanFang (*with* Feng, De Xing; Cheng, Dai Zhan) Parameters identification problems for Hopfield-type neural network equations. (English summary) **2005a:93049**
Wei, Jun Jie (*with* Velarde, Manuel G.) Bifurcation analysis and existence of periodic solutions in a simple neural network with delays. (English summary) **2005f:34238**
— *see also* **Song, Yong Li et al., 2005h:37214**
Wemmenhove, B. (*with* Skantzos, N. S.; Coolen, A. C. C.) Slowly evolving connectivity in recurrent neural networks. I. The extreme dilution regime. (English summary) **2005f:82093**
— *see also* **Pérez Castillo, I. et al., 2005e:82091**
Wong, H. S. *see* **Huang, De-Shuang et al., 2005i:65073**
Wong, Kwok-Wo *see* **Liao, Xiaofeng et al., 2005b:34159**
Wu, Bing Hua (*with* Zhou, Lei; Zhou, Ming Ru) Stability of delayed Cohen-Grossberg neural networks with reaction-diffusion terms. (Chinese. English and Chinese summaries) **2005a:35168**
— *see also* **Zhou, Lei et al.**
Wu, Jian Hong (*with* Zhang, Ru Yuan) A simple delayed neural network with large capacity for associative memory. (English summary) **2005e:39039**
— (*with* Zhang, Ru Yuan; Zou, Xingfu) Multiple periodic patterns via discrete neural nets with delayed feedback loops. (English summary) **2005f:37194**
Xia, Jielai (*with* Jiang, Hongwei; Tang, Qiyi) Introduction to artificial neural networks. (*see* **2005c:62003**)
Xiao, Sheng Zhong (*with* Zhang, Xin Zheng) Global exponential stability analysis of a wavelet neural network with delays. (Chinese. English and Chinese summaries)
Xie, Huiqin (*with* Wang, Quan Yi) Exponential stability and periodic solution of hybrid bidirectional associative memory neural networks with discrete delays. (English summary) **2005g:34175**
Xiu, Chunbo (*with* Liu, Xiang Dong; Tang, Yunyu; Zhang, Yuhe) A novel network of chaotic elements and its application in multi-valued associative memory. (English summary) **2005e:82092**
Yañez Gestoso, Javier *see* **Talaván, Pedro M., 2005i:68073**
Yang, Ting-Hui *see* **Lin, Song-Sun et al., 2005f:37193**
Yang, Xiaofan (*with* Liao, Xiaofeng; Megson, Graham M.; Evans, David John[1]) Global exponential periodicity of a class of neural networks with recent-history distributed delays. (English summary) **2005m:34187**
Yao, Hong Shan *see* **Zhang, Yu Min et al., 2005c:34169**
You, Zhi Sheng *see* **Liu, Yi Guang et al.**
Yuan, Yuan[2] (*with* Campbell, Sue Ann) Stability and synchronization of a ring of identical cells with delayed coupling. (English summary) **2005i:34097**
Yuan, Zhaohui (*with* Huang, Li Hong[1]; Zhou, Zhan) Coexistence of multiple attractive periodic solutions in a discrete-time neural network. (English summary) (*see* **2005c:39001**)
— (*with* Hu, Dewen; Huang, Li Hong[1]) Stability and bifurcation analysis on a discrete-time neural network. (English summary) **2005j:37075**
Yucel, Eylem (*with* Arik, Sabri) New exponential stability results for delayed neural networks with time varying delays. (English summary) **2005c:34156**
Zhai, Yumei (*with* Kiss, István Z.; Daido, Hiroaki; Hudson, John L.) Extracting order parameters from global measurements with application to coupled electrochemical oscillators. (English summary)
Zhang, Hongqiang *see* **Liu, Kaiyu, 2005d:39068**
Zhang, Jiantong Sieve estimates via neural network for strong mixing processes. (English summary) **2005b:62108**
Zhang, Jie *see* **Zhu, Wen Li**
Zhang, Linghai Exponential stability of traveling pulse solutions of a singularly perturbed system of integral differential equations arising from excitatory neuronal networks. (English summary) **2005b:35012**
Zhang, Qin *see* **Chen, Shi Hua[3] et al., 2005i:37103**
Zhang, Rong[3] *see* **Li, Chuandong et al., 2005h:34201**
Zhang, Ru Yuan *see* **Wu, Jian Hong et al., 2005e:39039** *and* **2005f:37194**
Zhang, Xin Zheng *see* **Xiao, Sheng Zhong**
Zhang, Yi[1] (*with* Tan, Kok Kiong) ★ Convergence analysis of recurrent neural networks. **2005g:37058**
Zhang, Yu Min (*with* Yao, Hong Shan; Shen, Yi[2]; Liao, Xiao Xin) Exponential stability of stochastic interval Hopfield neural networks with variable delays. (Chinese. English and Chinese summaries) **2005c:34169**
Zhang, Yuhe *see* **Xiu, Chunbo et al., 2005e:82092**
Zhao, Hong Yong Global stability of neural networks with distributed delays. (English summary) **2005c:34158**
— (*with* Wang, Guang Lan) Existence and global attractivity of almost periodic solutions for Hopfield neural networks with variable delay. (Chinese. English and Chinese summaries)
— Existence and global attractivity of almost periodic solution for cellular neural network with distributed delays. (English summary) **2005f:34203**
— Global stability of neural network with distributed delays. (English summary) **2005i:34101**
Zhao, Wei Rui *see* **Ruan, Jiong et al., 2005a:37056**
Zhao, Wen-Bo *see* **Huang, De-Shuang**
Zhao, Xinquan Stability of the steady state of the second-order Hopfield neural networks with reaction-diffusion terms. (English summary) **2005h:35204**
Zhao, Zhen Jiang *see* **Song, Qian Kun, 2005m:34182**
Zheng, Yanxu (*with* Chen, Tian Ping) Global exponential stability of delayed periodic dynamical systems. (English summary) **2005d:34167**
Zhou, Lei (*with* Wu, Bing Hua; Zhou, Ming Ru) Global asymptotic stability of high-order Cohen-Grossberg neural networks with delays. (Chinese. English and Chinese summaries)
— *see also* **Wu, Bing Hua et al., 2005a:35168**
Zhou, Ming Ru *see* **Wu, Bing Hua et al., 2005a:35168** *and* **Zhou, Lei et al.**
Zhou, Zhan *see* **Yuan, Zhaohui et al., (2005c:39001)**
Zhu, Huiyan (*with* Huang, Li Hong[1]) Asymptotic behavior of solutions for a class of delay difference equation. (English summary) **2005m:39034**
Zhu, Wen Li (*with* Zhang, Jie) Stability analysis of periodic solution of variable-coefficient and time-delay Hopfield neural networks. (Chinese. English and Chinese summaries)
Zou, Xingfu *see* **Fan, Meng[1], 2005b:34137; Wang, Lin[3], 2005c:37091; 2005d:39053** *and* **Wu, Jian Hong et al., 2005f:37194**

Items listed otherwise than by author

Alicante ★ Computational neuroscience. **2005j:92002**
Complex-valued neural networks ★ Complex-valued neural networks. **2005b:00018**
Computational neuroscience ★ Computational neuroscience. **2005j:92002**
Handbook of brain theory and neural networks ★ The handbook of brain theory and neural networks. **2005m:68002**

92Cxx Physiological, cellular and medical topics

92C05 Biophysics

Biscari, P. (*with* Canevese, S. M.; Napoli, G.) Impermeability effects in three-dimensional vesicles. (English summary) **2005b:92002**
Canevese, S. M. *see* **Biscari, P. et al., 2005b:92002**
Fine, Alan *see* **Hentschel, H. G. E. et al.**
Hentschel, H. G. E. (*with* Fine, Alan; Pencea, C. S.) Biological computing with diffusion and excitable calcium stores. (English summary)
Holcman, D. (*with* Schuss, Zeev) Modeling calcium dynamics in dendritic spines. (English summary) **2005k:92004**
Kohl, P. *see* **Solov′eva, O. È. et al.**
Konovalov, P. V. *see* **Solov′eva, O. È. et al.**
Markhasin, Vladimir S. *see* **Solov′eva, O. È. et al.**
Napoli, G. *see* **Biscari, P. et al., 2005b:92002**
Pencea, C. S. *see* **Hentschel, H. G. E. et al.**
Schuss, Zeev *see* **Holcman, D., 2005k:92004**
Solov′eva, O. È. (*with* Vikulova, N. A.; Konovalov, P. V.; Kohl, P.; Markhasin, Vladimir S.) Mathematical modelling of mechano-electric feedback in cardiomyocytes. (English summary)
Vikulova, N. A. *see* **Solov′eva, O. È. et al.**

Items with secondary classifications in 92C05

Alt, Wolfgang Nonlinear hyperbolic systems of generalized Navier-Stokes type for interactive motion in biology. (English summary) **2005d:35197**
Baigent, Stephen *see* **Banaji, Murad et al., 2005m:92012**
Banaji, Murad (*with* Tachtsidis, Ilias; Delpy, David; Baigent, Stephen) A physiological model of cerebral blood flow control. (English summary) **2005m:92012**
Bartkiewicz, Stanisław J. *see* **Gabryś, Barbara J. et al., 2005b:82089**
Boland, Mercedes *see* **Scott, Larkin Ridgway et al.**
Delpy, David *see* **Banaji, Murad et al., 2005m:92012**
Du, Qiang (*with* Liu, Chun; Wang, Xiaoqiang) A phase field approach in the numerical study of the elastic bending energy for vesicle membranes. (English summary) **2005b:74085**
Fernández, Ariel *see* **Scott, Larkin Ridgway et al.**
Gabryś, Barbara J. (*with* Pesz, Karol; Bartkiewicz, Stanisław J.) Brownian motion, molecular motors and ratchets. (English summary) **2005b:82089**
Hartmann, Betti (*with* Zakrzewski, Wojciech J.) Solitons and deformed lattices. I. (English summary) **2005j:37130**
Imomnazarov, Kh. Kh. Electromechanical potentials in cortical bone (a phenomenological approach). (Russian)
Landolfi, G. New results on the Canham-Helfrich membrane model via the generalized Weierstrass representation. (English summary) **2005a:82079**
Lewanowicz, Stanisław Representations for the parameter derivatives of the classical orthogonal polynomials. (English summary) **2005d:33013**
Lines, Glenn Terje *see* **Sundnes, Joakim et al., 2005m:92011**
Liu, Chun *see* **Du, Qiang et al., 2005b:74085**
Pesz, Karol *see* **Gabryś, Barbara J. et al., 2005b:82089**
Robinson, Hugh P. C. The biophysical basis of firing variability in cortical neurons. (*see* **2005h:92008**)
Rogale, Kristina *see* **Scott, Larkin Ridgway et al.**
Scott, Larkin Ridgway (*with* Boland, Mercedes; Rogale, Kristina; Fernández, Ariel) Continuum equations for dielectric response to macro-molecular assemblies at the nano scale. (English summary)

Sundnes, Joakim (*with* Lines, Glenn Terje; Tveito, Aslak) An operator splitting method for solving the bidomain equations coupled to a volume conductor model for the torso. (English summary) **2005m:92011**
Tachtsidis, Ilias *see* **Banaji, Murad et al., 2005m:92012**
Tveito, Aslak *see* **Sundnes, Joakim et al., 2005m:92011**
Wang, Xiaoqiang *see* **Du, Qiang et al., 2005b:74085**
Zakrzewski, Wojciech J. *see* **Hartmann, Betti, 2005j:37130**

92C10 Biomechanics [see also 74L15]

Accoto, Dino (*with* Castrataro, Piero; Dario, Paolo) Biomechanical analysis of Oligochaeta crawling. (English summary)
Ait-Haddou, R. (*with* Jinha, A.; Herzog, Walter; Binding, Paul A.) Analysis of the force-sharing problem using an optimization model. (English summary)
Arriaza, Enrique *see* **García-Manso, Juan M. et al.**
Bauer, Daniela (*with* Grebe, R.; Ehrlacher, A.) A three-layer continuous model of porous media to describe the first phase of skin irritation. (English summary)
Beamish, Dan (*with* Peskun, Christopher; Wu, Jian Hong) Critical delay for overshooting in planned arm movements with delayed feedback. (English summary) **2005i:92003**
Beaugonin, Muriel *see* **Haug, Eberhard et al., (2005e:92001)**
Belik, Mary E. (*with* Usyk, Taras P.; McCulloch, Andrew D.) Computational methods for cardiac electrophysiology. (English summary) (*see* **2005e:92001**)
Binding, Paul A. *see* **Ait-Haddou, R. et al.**
Blanco, Stéphane *see* **Jeanson, Raphaël et al.**
Blickhan, Reinhard *see* **Günther, Michael et al., 2005c:92003** *and* **Geyer, Hartmut et al.**
Castrataro, Piero *see* **Accoto, Dino et al.**
Chemla, Denis *see* **Katsnelson, Leonid B. et al.**
Choi, Hyung-Yun *see* **Haug, Eberhard et al., (2005e:92001)**
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Dario, Paolo *see* **Accoto, Dino et al.**
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Deneubourg, Jean-Louis *see* **Jeanson, Raphaël et al.**
Doblaré, M. *see* **Gómez-Benito, M. J. et al.**
Ehrlacher, A. *see* **Bauer, Daniela et al.**
Fedotov, E. M. *see* **Miftahof, R.**
Flashner, Henryk *see* **McNitt-Gray, Jill et al., 2005k:92005**
Fourcassié, Vincent *see* **Jeanson, Raphaël et al.**
Fournier, Richard[2] *see* **Jeanson, Raphaël et al.**
García-Aznar, J. M. *see* **Gómez-Benito, M. J. et al.**
García-Manso, Juan M. (*with* Martín-González, Juan M.; Dávila, Nancy; Arriaza, Enrique) Middle and long distance athletics races viewed from the perspective of complexity. (English summary)
Geyer, Hartmut (*with* Seyfarth, André; Blickhan, Reinhard) Spring-mass running: simple approximate solution and application to gait stability. (English summary)
Giesl, Peter (*with* Meisel, Dorothea; Scheurle, Jürgen; Wagner, Heiko) Stability analysis of the elbow with a load. (English summary)
Gómez-Benito, M. J. (*with* García-Aznar, J. M.; Kuiper, J. H.; Doblaré, M.) Influence of fracture gap size on the pattern of long bone healing: a computational study. (English summary)
Grebe, R. *see* **Bauer, Daniela et al.**
Günther, Michael (*with* Keppler, Valentin; Seyfarth, André; Blickhan, Reinhard) Human leg design: optimal axial alignment under constraints. (English summary) **2005c:92003**
Haider, Mansoor A. A radial biphasic model for local cell-matrix mechanics in articular cartilage. (English summary) **2005c:92004**
Haug, Eberhard (*with* Choi, Hyung-Yun; Robin, Stéphane; Beaugonin, Muriel) Human models for crash and impact simulation. (*see* **2005e:92001**)
Herzog, Walter *see* **Ait-Haddou, R. et al.**
Hutchings, Nathan R. *see* **Ludu, Andrei, (2005m:00011)**
Imomnazarov, Kh. Kh. On a thermodynamically consistent electromechanical model of cartilage. (Russian)
Jeanson, Raphaël (*with* Blanco, Stéphane; Fournier, Richard[2]; Deneubourg, Jean-Louis; Fourcassié, Vincent; Theraulaz, Guy) A model of animal movements in a bounded space. (English summary)
Jinha, A. *see* **Ait-Haddou, R. et al.**
Katsnelson, Leonid B. (*with* Nikitina, Larissa V.; Chemla, Denis; Solov'eva, O. È.; Coirault, Catherine; Lecarpentier, Yves; Markhasin, Vladimir S.) Influence of viscosity on myocardium mechanical activity: a mathematical model. (English summary)
Keppler, Valentin *see* **Günther, Michael et al., 2005c:92003**
Kotti, Vassiliki (*with* Rigas, A. G.) Improving the performance of a stochastic model by incorporating a non-linear term: application to a spiking biological system. (English summary)
Kuiper, J. H. *see* **Gómez-Benito, M. J. et al.**
Lecarpentier, Yves *see* **Katsnelson, Leonid B. et al.**
Ludu, Andrei (*with* Hutchings, Nathan R.) Nonlinear modeling of 3-d flagellar dynamics. (English summary) (*see* **2005m:00011**)
Maganaris, Constantinos N. A predictive model of moment-angle characteristics in human skeletal muscle: application and validation in muscles across the ankle joint. (English summary)
Markhasin, Vladimir S. *see* **Katsnelson, Leonid B. et al.**
Martín-González, Juan M. *see* **García-Manso, Juan M. et al.**
McCulloch, Andrew D. *see* **Belik, Mary E. et al., (2005e:92001)**
McNitt-Gray, Jill (*with* Flashner, Henryk; Requejo, Philip) Dynamic modeling of human movement during activities involving impact. (English summary) **2005k:92005**
Meisel, Dorothea *see* **Giesl, Peter et al.**
Menegaldo, Luciano Luporini (*with* de Toledo Fleury, Agenor; Weber, Hans Ingo) Optimal control of human posture using algorithms based on consistent approximations theory. (English summary) (*see* **2005b:93006**)
Miftahof, R. (*with* Fedotov, E. M.) Intestinal propulsion of a solid non-deformable bolus. (English summary)
Nikitina, Larissa V. *see* **Katsnelson, Leonid B. et al.**
Peskun, Christopher *see* **Beamish, Dan et al., 2005i:92003**
Requejo, Philip *see* **McNitt-Gray, Jill et al., 2005k:92005**
Rigas, A. G. *see* **Kotti, Vassiliki**
Robin, Stéphane *see* **Haug, Eberhard et al., (2005e:92001)**
Sachs, Gottfried Aerodynamic yawing moment characteristics of bird wings. (English summary)
Scheurle, Jürgen *see* **Giesl, Peter et al.**
Seyfarth, André *see* **Günther, Michael et al., 2005c:92003** *and* **Geyer, Hartmut et al.**
Shen, Wensheng (*with* Zhang, Jun[2]; Yang, Fuqian) Modeling and numerical simulation of bioheat transfer and biomechanics in soft tissue. (English summary)
Solov'eva, O. È. *see* **Katsnelson, Leonid B. et al.**
Thaller, S. (*with* Wagner, Hans) The relation between Hill's equation and individual muscle properties. (English summary)
Theraulaz, Guy *see* **Jeanson, Raphaël et al.**
de Toledo Fleury, Agenor *see* **Menegaldo, Luciano Luporini et al., (2005b:93006)**
Usyk, Taras P. *see* **Belik, Mary E. et al., (2005e:92001)**
Wagner, Hans *see* **Thaller, S.**
Wagner, Heiko *see* **Giesl, Peter et al.**
Weber, Hans Ingo *see* **Menegaldo, Luciano Luporini et al., (2005b:93006)**
Wu, Jian Hong *see* **Beamish, Dan et al., 2005i:92003**
Yang, Fuqian *see* **Shen, Wensheng et al.**
Zhang, Jun[2] *see* **Shen, Wensheng et al.**

Items with secondary classifications in 92C10

Abdel-Malek, Karim *see* **Yang, Jingzhou et al.**
Aronov, Dmitriy (*with* Victor, Jonathan D.) Non-Euclidean properties of spike train metric spaces. (English summary)
Balaeff, Alexander *see* **Villa, Elizabeth et al., 2005h:92012**
Bloor, M. I. G. (*with* Wilson, Michael John) Parameterising the shapes adopted by fluid membranes and vesicles. (English summary) **2005j:65011**
Chen, Li Ping *see* **Yang, Jingzhou et al.**
Chernous'ko, F. L. Modelling of snake-like locomotion. (English summary) **2005j:70004**
Chrissoulidis, D. P. *see* **Ioannidou, M. P. et al., 2005c:78022**
Daněk, Josef *see* **Nedoma, Jiřiet al., (2005g:65008)**
Denk, Frantisek *see* **Nedoma, Jiřiet al., (2005g:65008)**
Hazel, Andrew L. *see* **Heil, Matthias, 2005c:76095**
Heil, Matthias (*with* Hazel, Andrew L.) Mass transfer from a finite strip near an oscillating stagnation point—implications for atherogenesis. (English summary) **2005c:76095**
Hlaváček, Ivan *see* **Nedoma, Jiřiet al., (2005g:65008)**
Ioannidou, M. P. (*with* Kapsalas, K. D.; Chrissoulidis, D. P.) Electromagnetic-wave scattering by an eccentrically stratified, dielectric cylinder with multiple, eccentrically stratified, cylindrical, dielectric inclusions. (English summary) **2005c:78022**
Issac, K. Kurien *see* **Kar, Debasis et al., 2005m:70016**
Ivancevic, V. Symplectic rotational geometry in human biomechanics. (English summary) **2005m:70015**
Jayarajan, K. *see* **Kar, Debasis et al., 2005m:70016**
Kapsalas, K. D. *see* **Ioannidou, M. P. et al., 2005c:78022**
Kar, Debasis (*with* Issac, K. Kurien; Jayarajan, K.) Gaits and energetics in terrestrial legged locomotion. (English summary) **2005m:70016**
Laurie, H. (*with* Penne, R.) Projective geometry of human motion, with an application to injury risk. (English summary) **2005i:51014**
Mahadevan, L. *see* **Villa, Elizabeth et al., 2005h:92012**
Molenaar, Peter C. M. (*with* Newell, Karl M.) Direct fit of a theoretical model of phase transition in oscillatory finger motions. (English summary)
Nedoma, Jiří (*with* Hlaváček, Ivan; Daněk, Josef; Vavřík, P.; Stehlík, J.; Denk, Frantisek) Some recent results on a domain decomposition method in biomechanics of human joints. (English summary) (*see* **2005g:65008**)
Newell, Karl M. *see* **Molenaar, Peter C. M.**
Penne, R. *see* **Laurie, H., 2005i:51014**
Schulten, Klaus *see* **Villa, Elizabeth et al., 2005h:92012**
Stehlík, J. *see* **Nedoma, Jiřiet al., (2005g:65008)**
Turner, R. E. L. Neural architecture and locomotion. (English summary)
Vavřík, P. *see* **Nedoma, Jiřiet al., (2005g:65008)**
Victor, Jonathan D. *see* **Aronov, Dmitriy**
Villa, Elizabeth (*with* Balaeff, Alexander; Mahadevan, L.; Schulten, Klaus) Multiscale method for simulating protein-DNA complexes. (English summary) **2005h:92012**
Wilson, Michael John *see* **Bloor, M. I. G., 2005j:65011**
Yang, Jingzhou (*with* Zhang, Yun Qing[2]; Chen, Li Ping; Abdel-Malek, Karim) Reach envelope of human extremities. (English summary)
Zhang, Yun Qing[2] *see* **Yang, Jingzhou et al.**

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Alarcón, T. (*with* Byrne, Helen M.; Maini, Philip K.) A cellular automaton model for tumour growth in inhomogeneous environment. (English summary)
Alda, Witold *see* **Labaj, Pawełet al., (2005c:00014)**
Ambrosi, D. (*with* Guana, F.) Mechanical aspects of growth in soft tissues. (English and Italian summaries) **2005g:92003**
— (*with* Mollica, F.) The role of stress in the growth of a multicell spheroid. (English summary) **2005a:92006**
Anderson, Alexander R. A. (*with* Vasiev, Bakhtier N.) An individual based model of rippling movement in a myxobacteria population. (English summary)
Araujo, R. P. (*with* McElwain, D. L. S.) New insights into vascular collapse and growth dynamics in solid tumors. (English summary)
Bangham, J. Andrew *see* **Rolland-Lagan, Anne-Gaëlle et al.**
Bär, Markus *see* **Börner, Uwe, 2005b:92003**
Bestehorn, Michael (*with* Grigor'eva, E. V.; Kashchenko, S. A.) Spatiotemporal structures in a model with delay and diffusion. (English summary) **2005k:92006**

Blows, Terence R. (*with* Wimmer, Barry J.) A simple mathematical model for Batesian mimicry.
Börner, Uwe (*with* Bär, Markus) Pattern formation in a reaction-advection model with delay: a continuum approach to myxobacterial rippling. (English summary) **2005b:92003**
Byrne, Helen M. *see* **Alarcón, T. et al.**
Castrejón-García, R. *see* **Castrejón-Pita, A. A. et al.**
Castrejón-Pita, A. A. (*with* Sarmiento Galán, Antonio F.; Castrejón-Pita, J. R.; Castrejón-García, R.) Fractal dimension in butterflies' wings: a novel approach to understanding wing patterns? (English summary)
Castrejón-Pita, J. R. *see* **Castrejón-Pita, A. A. et al.**
Chaplain, Mark A. J. *see* **Schofield, Peter G. et al., 2005m:92005**
Chavarría-Krauser, A. (*with* Schurr, U.) A cellular growth model for root tips. (English summary)
Coen, Enrico *see* **Rolland-Lagan, Anne-Gaëlle et al.**
Crampin, Edmund J. *see* **Maini, Philip K. et al., (2005d:92001)**
Degiorgis, Piero Giorgio *see* **Guiot, Caterina et al.**
Deisboeck, Thomas S. *see* **Guiot, Caterina et al.**
Delsanto, Pier Paolo *see* **Guiot, Caterina et al.**
Díaz Díaz, Jesús Ildefonso (*with* Tello, José Ignacio) Mathematical analysis of a simple model for the growth of necrotic tumors in presence of inhibitors. (English summary) **2005f:92003**
— (*with* Tello, José Ignacio) Mathematical analysis, controllability and numerical simulation of a simple model of avascular tumor growth. **2005f:92004**
Drent, J. *see* **Luttikhuizen, P. C. et al.**
Eidelstein, E. *see* **Grover, N. B. et al.**
Gabriele, Pietro *see* **Guiot, Caterina et al.**
Glazier, James A. *see* **Zeng, Wei² et al.**
Gouzé, Jean-Luc *see* **Lemesle, Valérie, (2005d:92001)**
Graván, Carlos Perales (*with* Lahoz-Beltra, Rafael) Evolving morphogenetic fields in the zebra skin pattern based on Turing's morphogen hypothesis. (English summary)
Graziano, Luigi *see* **Preziosi, Luigi, (2005d:92001)**
Grigor'eva, E. V. *see* **Bestehorn, Michael et al., 2005k:92006**
Grover, N. B. (*with* Eidelstein, E.; Koppes, L. J. H.) Bacterial shape maintenance: an evaluation of various models. (English summary)
Guana, F. *see* **Ambrosi, D., 2005g:92003**
Guiot, Caterina (*with* Degiorgis, Piero Giorgio; Delsanto, Pier Paolo; Gabriele, Pietro; Deisboeck, Thomas S.) Does tumor growth follow a "universal law"? (English summary)
Hilker, F. M. *see* **Malchow, H. et al.**
Hoekstra, Alfons G. *see* **Merks, Roeland M. H. et al.**
Honkoop, P. J. C. *see* **Luttikhuizen, P. C. et al.**
Horstmann, Dirk On some pattern forming effects in chemotaxis. (English summary) (*see* **2005d:92001**)
Hotton, Scott Finding the center of a phyllotactic pattern. (English summary)
Hubbard, Stephen F. *see* **Schofield, Peter G. et al., 2005m:92005**
Igoshin, Oleg A. (*with* Neu, John C.; Oster, George) Developmental waves in myxobacteria: a distinctive pattern formation mechanism. (English summary) **2005j:92006**
Impey, Stephen J. *see* **Rolland-Lagan, Anne-Gaëlle et al.**
(Inouye, Kei) *see* **Errata: "Cell sorting by differential cell motility: a model for pattern formation in *Dictyostelium*"**
Iron, David (*with* Wei, Juncheng; Winter, Matthias) Stability analysis of Turing patterns generated by the Schnakenberg model. (English summary) **2005g:92004**
Ji, Lin (*with* Li, Qian Shu) Effect of spatiotemporal perturbation on Turing pattern formation. (English summary) **2005f:92005**
Jones, Pamela Frances *see* **Plank, Michael et al.**
Kaandorp, Jaap A. *see* **Merks, Roeland M. H. et al.**
Kashchenko, S. A. *see* **Bestehorn, Michael et al., 2005k:92006**
Kolobov, Andrey V. (*with* Polezhaev, Andrey A.; Solyanik, Galina I.) Stability of the tumour shape in the pre-angiogenic stage of growth depends on the migration capacity of cancer cells. (English summary) (*see* **2005d:92001**)
Koppes, L. J. H. *see* **Grover, N. B. et al.**
Kücken, Michael (*with* Newell, Alan C.) Fingerprint formation. (English summary)
Labaj, Paweł (*with* Topa, Paweł; Tyszka, Jarosław; Alda, Witold) 2D and 3D numerical models of the growth of foraminiferal shells. (English summary) (*see* **2005c:00014**)
Lahoz-Beltra, Rafael *see* **Graván, Carlos Perales**
Lander, Arthur D. (*with* Nie, Qing; Wan, Frederic Y. M.) Spatially distributed morphogen production and morphogen gradient formation. (English summary) **2005m:92004**
Lemesle, Valérie (*with* Gouzé, Jean-Luc) Structured cell growth models in a chemostat. (English summary) (*see* **2005d:92001**)
Li, Qian Shu *see* **Ji, Lin, 2005f:92005**
Luttikhuizen, P. C. (*with* Honkoop, P. J. C.; Drent, J.; van der Meer, Jaap) A general solution for optimal egg size during external fertilization, extended scope for intermediate optimal egg size and the introduction of Don Ottavio 'tango'. (English summary)
Madzvamuse, Anotida *see* **Maini, Philip K. et al., (2005d:92001)**
Maini, Philip K. (*with* Crampin, Edmund J.; Madzvamuse, Anotida; Wathen, Andrew J.; Thomas, Roger D. K.) Implications of domain growth in morphogenesis. (English summary) (*see* **2005d:92001**)
— *see also* **Page, Karen M. et al., 2005k:92007** *and* **Alarcón, T. et al.**
Malchow, H. (*with* Hilker, F. M.; Petrovskii, S. V.) Noise and productivity dependence of spatiotemporal pattern formation in a prey-predator system. (English summary)
Martin, A. P. A Malthusian curb on spatial structure in microorganism populations. (English summary)
McElwain, D. L. S. *see* **Araujo, R. P.**
van der Meer, Jaap *see* **Luttikhuizen, P. C. et al.**
Meinhardt, Hans Out-of-phase oscillations and traveling waves with unusual properties: the use of three-component systems in biology. (English summary) **2005g:92005**
Merks, Roeland M. H. (*with* Hoekstra, Alfons G.; Kaandorp, Jaap A.; Sloot, Peter M. A.) Polyp oriented modelling of coral growth. (English summary)
Mollica, F. *see* **Ambrosi, D., 2005a:92006**
Monk, Nicholas A. M. *see* **Page, Karen M. et al., 2005k:92007**
Myerscough, Mary R. *see* **Vincent, Andrew W., 2005h:92003**
Namy, Patrick (*with* Ohayon, Jacques; Tracqui, Philippe) Critical conditions for pattern formation and in vitro tubulogenesis driven by cellular traction fields. (English summary)
Neu, John C. *see* **Igoshin, Oleg A. et al., 2005j:92006**
Newell, Alan C. *see* **Kücken, Michael**
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Oster, George *see* **Igoshin, Oleg A. et al., 2005j:92006**
Owen, Markus R. *see* **Webb, Steven D.**
Page, Karen M. (*with* Maini, Philip K.; Monk, Nicholas A. M.) Complex pattern formation in reaction-diffusion systems with spatially varying parameters. (English summary) **2005k:92007**
Petrovskii, S. V. *see* **Malchow, H. et al.**
Plank, Michael (*with* Sleeman, B. D.; Jones, Pamela Frances) A mathematical model of tumour angiogenesis, regulated by vascular endothelial growth factor and the angiopoietins. (English summary)
Polezhaev, Andrey A. *see* **Kolobov, Andrey V. et al., (2005d:92001)**
Preziosi, Luigi (*with* Graziano, Luigi) Multiphase models of tumor growth: general framework and particular cases. (English summary) (*see* **2005d:92001**)
Rolland-Lagan, Anne-Gaëlle (*with* Coen, Enrico; Impey, Stephen J.; Bangham, J. Andrew) A computational method for inferring growth parameters and shape changes during development based on clonal analysis. (English summary)
Sarmiento Galán, Antonio F. *see* **Castrejón-Pita, A. A. et al.**
Schofield, Peter G. (*with* Chaplain, Mark A. J.; Hubbard, Stephen F.) Dynamic heterogeneous spatio-temporal pattern formation in host-parasitoid systems with synchronised generations. (English summary) **2005m:92005**
Schurr, U. *see* **Chavarría-Krauser, A.**
Sleeman, B. D. *see* **Plank, Michael et al.**
Sloot, Peter M. A. *see* **Merks, Roeland M. H. et al.**
Solyanik, Galina I. *see* **Kolobov, Andrey V. et al., (2005d:92001)**
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(Umeda, Tamiki) *see* **Errata: "Cell sorting by differential cell motility: a model for pattern formation in *Dictyostelium*"**
Vasiev, Bakhtier N. *see* **Anderson, Alexander R. A.**
Vincent, Andrew W. (*with* Myerscough, Mary R.) The effect of a non-uniform turning kernel on ant trail morphology. (English summary) **2005h:92003**
Wan, Frederic Y. M. *see* **Lander, Arthur D. et al., 2005m:92004**
Wathen, Andrew J. *see* **Maini, Philip K. et al., (2005d:92001)**
Webb, Steven D. (*with* Owen, Markus R.) Intra-membrane ligand diffusion and cell shape modulate juxtacrine patterning. (English summary)
Wei, Juncheng *see* **Iron, David et al., 2005g:92004**
Wimmer, Barry J. *see* **Blows, Terence R.**
Winter, Matthias *see* **Iron, David et al., 2005g:92004**
Yang, Xin-She Pattern formation in enzyme inhibition and cooperativity with parallel cellular automata. (English summary) **2005b:92004**
Zeng, Wei² (*with* Thomas, Gilberto L.; Glazier, James A.) Non-Turing stripes and spots: a novel mechanism for biological cell clustering. (English summary)

Items listed otherwise than by author

Errata:
"Cell sorting by differential cell motility: a model for pattern formation in *Dictyostelium*" Erratum to: "Cell sorting by differential cell motility: a model for pattern formation in *Dictyostelium*" [J. Theoret. Biol. **226** (2004), no. 2, 215–224; MR2069304] by T. Umeda and K. Inouye.

Items with secondary classifications in 92C15

Acosta, F. J. *see* **Fungairiño, S. G. et al.**
Adamatskiĭ, A. I. *see* **de Lacy Costello, Ben et al., 2005d:35133**
Alarcón, T. (*with* Byrne, Helen M.; Maini, Philip K.) A multiple scale model for tumor growth. (English summary)
Andreucci, Daniele (*with* Herrero, M. A.; Velázquez, J. J. L.) On the growth of filamentary structures in planar media. (English summary) **2005g:35168**
Araujo, R. P. (*with* McElwain, D. L. S.) A linear-elastic model of anisotropic tumour growth. (English summary) **2005d:92008**
Barrio, R. A. *see* **Plaza, R. G. et al., 2005j:37149**
Bestehorn, Michael (*with* Grigor'eva, E. V.) Formation and propagation of localized states in extended systems. (English summary) **2005b:35277**
Biswas, Pradip K. (*with* Pacheco, M. T. T.) Modeling and simulation of multicellular tumor growth using a nonlinear matter wave equation. (English summary)
Borisyuk, Alla (*with* Smith, Brian H.) Odor interactions and learning in a model of the insect antennal lobe. (English summary) (*see* **2005j:92002**)
Byrne, Helen M. *see* **Alarcón, T. et al.** *and* **Franks, S. J. et al.**
Calsina Ballesta, Ángel (*with* Cuadrado, Sílvia) Small mutation rate and evolutionarily stable strategies in infinite dimensional adaptive dynamics. (English summary) **2005f:35040**
Cassia-Moura, R. (*with* Xie, Fagen; Cerdeira, Hilda A.) Effect of heterogeneity on spiral wave dynamics in simulated cardiac tissue. (English summary)
Cerdeira, Hilda A. *see* **Cassia-Moura, R. et al.**
Chattopadhyay, Surajit *see* **Chaudhuri, Sutapa**
Chaudhuri, Sutapa (*with* Chattopadhyay, Surajit) Convergence of feed forward neural network—a different approach. (English summary)
Chen, Xinfu (*with* Friedman, Avner) A free boundary problem for an elliptic-hyperbolic system: an application to tumor growth. (English summary) **2005f:35333**
Chiu, David K. Y. (*with* Wong, Andrew K. C.) Multiple pattern associations for interpreting structural and functional characteristics of biomolecules. (English summary)

Coward, Charles W. *see* **Tözeren, Aydin et al.**
Cuadrado, Sílvia *see* **Calsina Ballesta, Ángel, 2005f:35040**
Cui, Shang Bin On a free boundary problem modeling the growth of necrotic tumors. (English summary) (*see* **2005c:35004**)
Cummings, F. W. A model of morphogenesis. (English summary)
Currò, C. (*with* Fusco, D.) Shock-like travelling wave solutions for a hyperbolic tumour growth model. (English summary) (*see* **2005c:00016**)
Davidsen, Jörn (*with* Glass, Leon; Kapral, Raymond) Topological constraints on spiral wave dynamics in spherical geometries with inhomogeneous excitability. (English summary)
van den Driessche, P. *see* **Satnoianu, Razvan Alin, 2005i:15018**
Erban, Radek (*with* Othmer, Hans G.) From signal transduction to spatial pattern formation in *E. coli*: a paradigm for multiscale modeling in biology. (English summary) **2005i:35140**
Franks, S. J. (*with* Byrne, Helen M.; Underwood, J. C. E.; Lewis, C. E.) Biological inferences from a mathematical model of comedo ductal carcinoma in situ of the breast. (English summary)
— *see also* **King, John Robert, 2005f:35137**
Frieden, B. Roy ★ Science from Fisher information. **2005f:81048**
Friedman, Avner *see* **Chen, Xinfu, 2005f:35333**
Fungairiño, S. G. (*with* Lopez, Francisco Gomez; Serrano, José Manuel; Acosta, F. J.; de las Heras, P.) Structural cost of shoot modules and its implications on plant potential fitness in a Mediterranean perennial shrub, *Retama sphaerocarpa* (L.) Boiss. (English summary)
Fusco, D. *see* **Currò, C., (2005c:00016)**
Gambino, G. (*with* Greco, Antonio M.; Lombardo, Maria Carmela) Symmetry reduction of a model in spherical symmetry for benign tumor. (English summary) (*see* **2005c:00016**)
Gandolfi, Alberto[1] *see* **d'Onofrio, Alberto**
Gilding, Brian H. (*with* Kersner, Robert) ★ Travelling waves in nonlinear diffusion-convection reaction. **2005k:35002**
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Graham, Bruce P. (*with* van Ooyen, Arjen) Transport limited effects in a model of dendritic branching. (English summary)
Greco, Antonio M. *see* **Gambino, G. et al., (2005c:00016)**
Grigor'eva, E. V. *see* **Bestehorn, Michael, 2005b:35277**
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Kapral, Raymond *see* **Davidsen, Jörn et al.**
Kar, Sandip *see* **Riaz, Syed Shahed et al., 2005k:35225**
Kaźmierczak, Bogdan (*with* Piechór, Kazimierz) Some heteroclinic solutions of a model of skin pattern formation. (English summary) **2005c:35047**
Kersner, Robert *see* **Gilding, Brian H., 2005k:35002**
King, John Robert (*with* Franks, S. J.) Mathematical analysis of some multi-dimensional tissue-growth models. (English summary) **2005f:35137**
Kolokolnikov, Theodore (*with* Ward, Michael Jeffrey) Bifurcation of spike equilibria in the near-shadow Gierer-Meinhardt model. (English summary) **2005f:35029**
Komoto, Atsushi (*with* Hanaki, Ken-ichi; Maenosono, Shinya; Wakano, Joe Yuichiro; Yamaguchi, Yukio[1]; Yamamoto, Kenji) Growth dynamics of *Bacillus circulans* colony. (English summary)
de Lacy Costello, Ben (*with* Ratcliffe, Norman; Adamatskiĭ, A. I.; Zanin, Alexey L.; Liehr, Andreas W.; Purwins, Hans-Georg) The formation of Voronoi diagrams in chemical and physical systems: experimental findings and theoretical models. (English summary) **2005d:35133**
Lega, J. (*with* Passot, T.) Hydrodynamics of bacterial colonies: phase diagrams. (English summary)
Lewis, C. E. *see* **Franks, S. J. et al.**
Liehr, Andreas W. *see* **de Lacy Costello, Ben et al., 2005d:35133**
Liu, Tian (*with* Zhao, Wei; Tian, Lili; Wu, Rongling) An algorithm for molecular dissection of tumor progression. (English summary) **2005k:92030**
Liu, Zhi Jun[2] (*with* Wang, Wei Dong[1]) Persistence and periodic solutions of a nonautonomous predator-prey diffusion system with Holling III functional response and continuous delay. (English summary) **2005h:34183**
Lombardo, Maria Carmela *see* **Gambino, G. et al., (2005c:00016)**
Lopez, Francisco Gomez *see* **Fungairiño, S. G. et al.**
Lowengrub, John *see* **Macklin, Paul, 2005g:65155**
Macklin, Paul (*with* Lowengrub, John) Evolving interfaces via gradients of geometry-dependent interior Poisson problems: application to tumor growth. (English summary) **2005g:65155**
Maenosono, Shinya *see* **Komoto, Atsushi et al.**
Maini, Philip K. *see* **Plaza, R. G. et al., 2005j:37149** *and* **Alarcón, T. et al.**
McElwain, D. L. S. *see* **Araujo, R. P., 2005d:92008**
Mimura, Masayasu Pattern formation in consumer-finite resource reaction-diffusion systems. **2005m:35158**
Mogilner, A. *see* **Rubinstein, Boris et al., 2005j:92013**
Morgan, David S. (*with* Kaper, Tasso J.) Axisymmetric ring solutions of the 2D Gray-Scott model and their destabilization into spots. (English summary) **2005b:35152**
Odagiri, Kenta *see* **Yaguma, Shinnosuke et al., 2005e:82089**
d'Onofrio, Alberto (*with* Gandolfi, Alberto[1]) Tumour eradication by antiangiogenic therapy: analysis and extensions of the model by Hahnfeldt et al. (1999). (English summary)
van Ooyen, Arjen *see* **Graham, Bruce P.**
Othmer, Hans G. *see* **Erban, Radek, 2005i:35140**
Pacheco, M. T. T. *see* **Biswas, Pradip K.**
Padilla, Pablo *see* **Plaza, R. G. et al., 2005j:37149**
Painter, Kevin J. (*with* Hillen, Thomas) Volume-filling and quorum-sensing in models for chemosensitive movement. (English summary) **2005a:92008**
Passot, T. *see* **Lega, J.**
Petushi, Sokol P. *see* **Tözeren, Aydin et al.**
Piechór, Kazimierz *see* **Kaźmierczak, Bogdan, 2005c:35047**
Plaza, R. G. (*with* Sánchez-Garduño, F.; Padilla, Pablo; Barrio, R. A.; Maini, Philip K.) The effect of growth and curvature on pattern formation. (English summary) **2005j:37149**
Preziosi, Luigi Modelling tumour growth and progression. (*see* **2005a:00022**)
Purwins, Hans-Georg *see* **de Lacy Costello, Ben et al., 2005d:35133**
Ratcliffe, Norman *see* **de Lacy Costello, Ben et al., 2005d:35133**
Ray, Deb Shankar *see* **Riaz, Syed Shahed et al., 2005k:35225**
Riaz, Syed Shahed (*with* Kar, Sandip; Ray, Deb Shankar) Differential flow induced transition of Hopf instability to Turing instability and pattern formation. (English summary) **2005k:35225**
Rothman, Daniel H. *see* **Weitz, Joshua S., 2005k:92003**
Rubinstein, Boris (*with* Jacobson, K.; Mogilner, A.) Multiscale two-dimensional modeling of a motile simple-shaped cell. (English summary) **2005j:92013**
Rucklidge, Alastair M. Pattern formation in large domains. (English summary) **2005a:76087**
Sánchez-Garduño, F. *see* **Plaza, R. G. et al., 2005j:37149**
Satnoianu, Razvan Alin (*with* van den Driessche, P.) Some remarks on matrix stability with application to Turing instability. (English summary) **2005i:15018**
Schlicht, Robert (*with* Iwasa, Yoh) Forest gap dynamics and the Ising model. (English summary)
Serrano, José Manuel *see* **Fungairiño, S. G. et al.**
Shen, Jianhong (*with* Jung, Yoon Mo) Geometric and stochastic analysis of reaction-diffusion patterns. (English summary)
Sieniutycz, Stanisław Extremum properties of entropy to determine dynamics of growth and evolution in complex systems. (English summary) **2005c:82089**
Smith, Brian H. *see* **Borisyuk, Alla, (2005j:92002)**
Suzudo, Tomoaki Spatial pattern formation in asynchronous cellular automata with mass conservation. (English summary) **2005f:82075**
Takatsuka, Kazuo *see* **Yaguma, Shinnosuke et al., 2005e:82089**
Takei, Yasuhiro (*with* Tsujikawa, Tohru; Yagi, Atsushi) Numerical computations and pattern formation for adsorbate-induced phase transition model. (English summary) **2005m:37211**
Tao, Youshan (*with* Yoshida, Norio; Guo, Qian) Nonlinear analysis of a model of vascular tumour growth and treatment. (English summary) **2005d:35282**
Tian, Lili *see* **Liu, Tian et al., 2005k:92030**
Tözeren, Aydin (*with* Coward, Charles W.; Petushi, Sokol P.) Origins and evolution of cell phenotypes in breast tumors. (English summary)
Tsujikawa, Tohru *see* **Takei, Yasuhiro et al., 2005m:37211**
Ueda, Kei-Ichi Dynamics of pulse splitting in reaction-diffusion systems. (English summary) (*see* **2005j:00010**)
Underwood, J. C. E. *see* **Franks, S. J. et al.**
Velázquez, J. J. L. *see* **Andreucci, Daniele et al., 2005g:35168**
Wakano, Joe Yuichiro *see* **Komoto, Atsushi et al.**
Wang, Wei Dong[1] *see* **Liu, Zhi Jun[2], 2005h:34183**
Ward, Michael Jeffrey *see* **Kolokolnikov, Theodore, 2005f:35029**
Wei, Juncheng (*with* Winter, Matthias) Existence and stability analysis of asymmetric patterns for the Gierer-Meinhardt system. (English summary) **2005i:35074**
Weitz, Joshua S. (*with* Rothman, Daniel H.) Dynamics of a contact process with ontogeny. (English summary) **2005k:92003**
Winter, Matthias *see* **Wei, Juncheng, 2005i:35074**
Wong, Andrew K. C. *see* **Chiu, David K. Y.**
Wu, Rongling *see* **Liu, Tian et al., 2005k:92030**
Xie, Fagen *see* **Cassia-Moura, R. et al.**
Yagi, Atsushi *see* **Takei, Yasuhiro et al., 2005m:37211**
Yaguma, Shinnosuke (*with* Odagiri, Kenta; Takatsuka, Kazuo) Coupled-cellular-automata study on stochastic and pattern-formation dynamics under spatiotemporal fluctuation of temperature. (English summary) **2005e:82089**
Yamaguchi, Yukio[1] *see* **Komoto, Atsushi et al.**
Yamamoto, Kenji *see* **Komoto, Atsushi et al.**
Yoshida, Norio *see* **Tao, Youshan et al., 2005d:35282**
Zanin, Alexey L. *see* **de Lacy Costello, Ben et al., 2005d:35133**
Zhao, Wei *see* **Liu, Tian et al., 2005k:92030**

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Acerenza, Luis *see* **Arocena, Miguel**
Arocena, Miguel (*with* Acerenza, Luis) Necessary conditions for a minimal model of receptor to show adaptive response over a wide range of levels of stimulus. (English summary)
Byrne, Helen M. (*with* Owen, Markus R.) A new interpretation of the Keller-Segel model based on multiphase modelling. (English summary) **2005g:92006**
Cardenas, O. J. *see* **Solis, Francisco Javier et al., 2005b:92007**
Chalub, Fabio A. C. C. (*with* Markowich, Peter A.; Perthame, Benoît; Schmeiser, Christian) Kinetic models for chemotaxis and their drift-diffusion limits. (English summary) **2005a:92007**
Cortés López, Juan Carlos *see* **Solis, Francisco Javier et al., 2005b:92007**
Dallon, John C. (*with* Othmer, Hans G.) How cellular movement determines the collective force generated by the *Dictyostelium discoideum* slug. (English summary)
Filbet, Francis (*with* Laurençot, Philippe; Perthame, Benoît) Derivation of hyperbolic models for chemosensitive movement. (English summary) **2005m:92006**
Hadeler, Karl P. (*with* Hillen, Thomas; Lutscher, Frithjof) The Langevin or Kramers approach to biological modeling. (English summary) **2005j:92007**
Hillen, Thomas *see* **Painter, Kevin J., 2005a:92008** *and* **Hadeler, Karl P. et al., 2005j:92007**

Horstmann, Dirk From 1970 until present: the Keller-Segel model in chemotaxis and its consequences. II. (English summary) **2005b:92005**
Iglesias, Pablo A. *see* **Krishnan, J.**
Krishnan, J. (*with* Iglesias, Pablo A.) A modeling framework describing the enzyme regulation of membrane lipids underlying gradient perception in *Dictyostelium* cells. (English summary)
Laurençot, Philippe *see* **Filbet, Francis et al., 2005m:92006**
Li, Yong[13] The existence of travelling waves in a biological model for chemotaxis. (Chinese. English and Chinese summaries) **2005b:92006**
Lutscher, Frithjof *see* **Hadeler, Karl P. et al., 2005j:92007**
Markowich, Peter A. *see* **Chalub, Fabio A. C. C. et al., 2005a:92007**
Narang, Atul *see* **Subramanian, K. K.**
Othmer, Hans G. *see* **Dallon, John C.**
Owen, Markus R. *see* **Byrne, Helen M., 2005g:92006**
Painter, Kevin J. (*with* Hillen, Thomas) Volume-filling and quorum-sensing in models for chemosensitive movement. (English summary) **2005a:92008**
— *see also* **Turner, Stephen et al., 2005e:92005**
Perthame, Benoît *see* **Chalub, Fabio A. C. C. et al., 2005a:92007** *and* **Filbet, Francis et al., 2005m:92006**
Schmeiser, Christian *see* **Chalub, Fabio A. C. C. et al., 2005a:92007**
Sherratt, Jonathan A. *see* **Turner, Stephen et al., 2005e:92005**
Solis, Francisco Javier (*with* Cortés López, Juan Carlos; Cardenas, O. J.) The stability of the Keller-Segel model. (English summary) **2005b:92007**
Subramanian, K. K. (*with* Narang, Atul) A mechanistic model for eukaryotic gradient sensing: spontaneous induced phosphoinositide polarization. (English summary)
Turner, Stephen (*with* Sherratt, Jonathan A.; Painter, Kevin J.) From a discrete to a continuous model of biological cell movement. (English summary) **2005e:92005**

Items with secondary classifications in 92C17

Budd, Chris J. (*with* Carretero-González, R.; Russell, R. D.) Precise computations of chemotactic collapse using moving mesh methods. (English summary) **2005m:65202**
Carretero-González, R. *see* **Budd, Chris J. et al., 2005m:65202**
Chen, Hua[1] (*with* Zhong, Xin-Hua) Norm behaviour of solutions to a parabolic-elliptic system modelling chemotaxis in a domain of $\mathbb{R}^3$. (English summary) **2005b:35147**
— (*with* Zhong, Xin-Hua) Global existence and blow-up for the solutions to nonlinear parabolic-elliptic system modelling chemotaxis. (English summary)
— *see also* **Luo, Guang Zhou et al.**
Corrias, L. (*with* Perthame, Benoît; Zaag, Hatem) Global solutions of some chemotaxis and angiogenesis systems in high space dimensions. (English summary) **2005f:35135**
Dkhil, Fathi Singular limit of a degenerate chemotaxis-Fisher equation. (English summary) **2005c:35154**
Efendiev, Messoud A. (*with* Yagi, Atsushi) Continuous dependence on a parameter of exponential attractors for chemotaxis-growth system. (English summary) **2005k:37180**
Erban, Radek (*with* Othmer, Hans G.) From individual to collective behavior in bacterial chemotaxis. (English summary) **2005j:35220**
Fomina, N. A. *see* **Tupchiev, V. A., 2005g:35163**
Guo, Jin Hai *see* **Luo, Guang Zhou et al.**
Hillen, Thomas (*with* Potapov, A. B.) The one-dimensional chemotaxis model: global existence and asymptotic profile. (English summary) **2005e:35100**
Holcman, D. (*with* Schuss, Zeev) Modeling calcium dynamics in dendritic spines. (English summary) **2005k:92004**
Horstmann, Dirk On some pattern forming effects in chemotaxis. (English summary) (*see* **2005d:92001**)
— From 1970 until present: the Keller-Segel model in chemotaxis and its consequences. I. (English summary) **2005f:35163**
Iron, David (*with* Wei, Juncheng; Winter, Matthias) Stability analysis of Turing patterns generated by the Schnakenberg model. (English summary) **2005g:92004**
Kowalczyk, Remigiusz Preventing blow-up in a chemotaxis model. (English summary) **2005m:35302**
Levine, Howard A. (*with* Rencławowicz, Joanna) Singularity formation in chemotaxis—a conjecture of Nagai. (English summary) **2005h:35174**
Luo, Guang Zhou (*with* Guo, Jin Hai; Chen, Hua[1]) Existence of solutions for the hyperbolic system and traveling wave solutions for the parabolic system of chemotaxis model. (Chinese. English and Chinese summaries)
Nagai, Toshitaka (*with* Nakaki, Tatsuyuki) Stability of constant steady states and existence of unbounded solutions in time to a reaction-diffusion equation modelling chemotaxis. (English summary) **2005e:35104**
Nakaki, Tatsuyuki *see* **Nagai, Toshitaka, 2005e:35104**
Othmer, Hans G. *see* **Erban, Radek, 2005j:35220**
Perthame, Benoît PDE models for chemotactic movements: parabolic, hyperbolic and kinetic. (English summary) **2005i:35269**
— *see also* **Corrias, L. et al., 2005f:35135**
Potapov, A. B. *see* **Hillen, Thomas, 2005e:35100**
(Pozrikidis, C.) *see* **Modeling and simulation of capsules and biological cells, 2005b:92016**
Primicerio, Mario (*with* Zal′tsman, B. B.) Continuation of the solution to the chemotaxis problem beyond its blow-up. (English summary) **2005b:35154**
Rencławowicz, Joanna *see* **Levine, Howard A., 2005h:35174**
Russell, R. D. *see* **Budd, Chris J. et al., 2005m:65202**
Schuss, Zeev *see* **Holcman, D., 2005k:92004**
Senba, Takasi (*with* Suzuki, Takashi[1]) Chemotactic collapse of radial solutions to Jäger-Luckhaus system. (English summary) **2005e:35119**
Suzuki, Takashi[1] *see* **Senba, Takasi, 2005e:35119**
Tello, José Ignacio Mathematical analysis and stability of a chemotaxis model with logistic term. (English summary) **2005h:35202**
Tupchiev, V. A. (*with* Fomina, N. A.) On the well-posedness and stabilization of solutions of boundary value problems of chemotaxis. (Russian. Russian summary) **2005g:35163**
Velázquez, J. J. L. Well-posedness of a model of point dynamics for a limit of the Keller-Segel system. (English summary) **2005g:35135**
Wei, Juncheng *see* **Iron, David et al., 2005g:92004**
Winter, Matthias *see* **Iron, David et al., 2005g:92004**
Yagi, Atsushi *see* **Efendiev, Messoud A., 2005k:37180**
Zaag, Hatem *see* **Corrias, L. et al., 2005f:35135**
Zal′tsman, B. B. *see* **Primicerio, Mario, 2005b:35154**
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Items listed otherwise than by author

Modeling and simulation of capsules and biological cells ★ Modeling and simulation of capsules and biological cells. **2005b:92016**

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Abbott, L. F. *see* **Swinehart, Christian D. et al., (2005j:92002)**
Abeles, Moshe *see* **Aviel, Yuval et al., (2005j:92002)**
Acebrón, Juan A. (*with* Bulsara, A. R.; Rappel, Wouter-Jan) Noisy FitzHugh-Nagumo model: from single elements to globally coupled networks. (English summary) **2005f:92006**
Aihara, Kazuyuki *see* **Chen, Luonan et al., 2005j:92008**
Albano, A. M. *see* **Rapp, P. E. et al.**
Albright, Thomas D. *see* **Schwartz, Odelia et al., (2005j:92002)**
Amigó, José M. *see* **Szczepański, Janusz et al., (2005j:92002)**
Anderson, Charles H. *see* **Barber, M. J. et al., 2005a:92009**
Andreev, K. V. (*with* Krasichkov, L. V.) Activity switching by external signal in neuron ensembles, modelling by piecewise linear maps. (English summary)
Atay, Fatihcan M. *see* **Hutt, Axel, 2005k:92012**
Aviel, Yuval (*with* Horn, David; Abeles, Moshe) Synfire waves in small balanced networks. (English summary) (*see* **2005j:92002**)
Ballard, Dana H. *see* **Zhang, Zuohua, (2005j:92002)**
Baltanás, J. P. *see* **Casado Vázquez, José Manuel, 2005a:92010**
Banks, H. T. (*with* Cole, Cammey E.; Schlosser, Paul M.; Tran, Hien T.) Modeling and optimal regulation of erythropoiesis subject to benzene intoxication. (English summary)
Barber, M. J. (*with* Clark, John W.; Anderson, Charles H.) Generating neural circuits that implement probabilistic reasoning. (English summary) **2005a:92009**
Barbieri, Riccardo *see* **Brown, Emery N. et al., (2005h:92008)**
Barbosa, Marconi Soares *see* **da F. Costa, L. et al.**
Ben-Jacob, Eshel *see* **Persi, Erez et al., (2005j:92002)**
Benucci, Andrea (*with* Verschure, Paul F. M. J.; König, Peter) High-order events in cortical networks: a lower bound. (English summary)
Blank, D. *see* **Stoop, R., (2005b:93006)**
Bollé, D. (*with* Erichsen, R., Jr.; Theumann, W. K.) A layered neural network with three-state neurons optimizing the mutual information. (English summary)
Bond, Alan H. An information-processing analysis of the functional architecture of the primate neocortex. (English summary)
— A computational model for the primate neocortex based on its functional architecture. (English summary)
Borisyuk, Alla (*with* Smith, Brian H.) Odor interactions and learning in a model of the insect antennal lobe. (English summary) (*see* **2005j:92002**)
Borst, Alexander Modelling fly motion vision. (*see* **2005h:92008**)
Botelho, Fernanda (*with* Jamison, James E.) Qualitative behavior of differential equations associated with artificial neural networks. (English summary) **2005h:92004**
Bouchard, Kris *see* **Swinehart, Christian D. et al., (2005j:92002)**
Braun, H. A. *see* **Mosekilde, Erik et al.**
Bressloff, Paul C. (*with* Folias, Stefanos E.) Front bifurcations in an excitatory neural network. (English summary) **2005h:92005**
— *see also* **Folias, Stefanos E., 2005h:92006**
Brown, Emery N. (*with* Barbieri, Riccardo; Eden, Uri T.; Frank, Loren M.) Likelihood methods for neural spike train data analysis. (*see* **2005h:92008**)
Brunel, Nicolas *see* **Renart, Alfonso et al., (2005h:92008)**
Bulsara, A. R. *see* **Acebrón, Juan A. et al., 2005f:92006**
Cabrera, Juan Luis (*with* Milton, John G.) Human stick balancing: tuning Lèvy flights to improve balance control. (English summary)
Casado Vázquez, José Manuel (*with* Baltanás, J. P.) Phase switching in a system of two noisy Hodgkin-Huxley neurons coupled by a diffusive interaction. (English summary) **2005a:92010**
Castellani, Gastone C. *see* **Yeung, Luk C. et al., 2005e:92011**
Celletti, Alessandra (*with* Villa, Alessandro E. P.) Analysis of short time series with applications to neurobiology. (English summary) (*see* **2005d:92001**)
Cellucci, C. J. *see* **Rapp, P. E. et al.**
Chacron, Maurice J. (*with* Longtin, André; Pakdaman, Khashayar) Chaotic firing in the sinusoidally forced leaky integrate-and-fire model with threshold fatigue. (English summary) **2005c:92005**
Chen, Guanrong *see* **Li, Chun Guang**
Chen, Luonan (*with* Wang, Rui-qi; Kobayashi, Tetsuya J.; Aihara, Kazuyuki) Dynamics of gene regulatory networks with cell division cycle. (English summary) **2005j:92008**
Chik, D. T. W. (*with* Coombes, S.; Wang, Zi Dan) Clustering through postinhibitory rebound in synaptically coupled neurons. (English summary) **2005j:92009**
Chillemi, Santi *see* **Di Garbo, Angelo et al., (2005j:92002)**
Christen, M. (*with* Kern, A.; Nikitchenko, A.; Steeb, Willi-Hans; Stoop, R.) Fast spike pattern detection using the correlation integral. (English summary) **2005j:92010**
Clark, John W. *see* **Barber, M. J. et al., 2005a:92009**
Clarke, P. G. H. *see* **Kohli, R. et al., 2005e:92007**
Cole, Cammey E. *see* **Banks, H. T. et al.**
Coolen, A. C. C. *see* **Del Prete, Valeria, (2005j:92002)**
Coombes, S. (*with* Owen, Markus R.) Evans functions for integral neural field equations with Heaviside firing rate function. (English summary) **2005k:92008**
— *see also* **Chik, D. T. W. et al., 2005j:92009**
Coupez, V. *see* **da F. Costa, L. et al.**
Cox, Steven J. (*with* Raol, Jay H.) Recovering the passive properties of tapered dendrites from single and dual potential recordings. (English summary) **2005b:92008**
Dai, Shi Qiang *see* **Shi, Xiao Min, 2005k:92017**
Davison, Andrew Biologically-detailed network modelling. (*see* **2005h:92008**)

Del Prete, Valeria (*with* Coolen, A. C. C.) Non-equilibrium statistical mechanics of recurrent networks with realistic neurons. (English summary) (*see* **2005j:92002**)
Deming, Ross *see* **Perlovskiĭ, L. I.**
Di Garbo, Angelo (*with* Panarese, Alessandro; Chillemi, Santi) Phase locking states between fast-spiking interneurons coupled by electrical and chemical synapses. (English summary) (*see* **2005j:92002**)
Di Marco, M. (*with* Forti, Mauro; Nistri, Paolo; Tesi, Alberto) On the effect of neuron activation gain on robustness of complete stability. (English summary) **2005b:92009**
Dimitrov, Alex *see* **Mumey, Brendan et al.**, (**2005j:92002**)
Drake, James M. *see* **Sivaloganathan, S. et al.**
Duan, Yu-Bin *see* **Xie, Yong[1] et al.**, **2005k:92018**
Dunin-Barkovskiĭ, V. L. *see* **Vyshinskiĭ, L. L. et al.**
Edelman, Gerald M. *see* **Seth, Anil K.**, (**2005g:05005**)
Eden, Uri T. *see* **Brown, Emery N. et al.**, (**2005h:92008**)
Edwards, S. F. *see* **Srivastava, Vipin**
van Elburg, Ronald A. J. (*with* van Ooyen, Arjen) A new measure for bursting. (English summary) (*see* **2005j:92002**)
Elnashaie, S. S. E. H. *see* **Mahecha-Botero, A. et al.**, **2005k:92013**
Erichsen, R., Jr. *see* **Bollé, D. et al.**
da F. Costa, L. (*with* Barbosa, Marconi Soares; Coupez, V.) A direct approach to neuronal connectivity. (English summary)
Feng, Jian Feng[1] (*with* Tartaglia, Giangaetano; Tirozzi, Brunello) A note on minimum-variance theory and beyond. (English summary) **2005a:92011**
— *see also* **Computational neuroscience**, **2005h:92008**; **Tuckwell, Henry C.**, (**2005h:92008**) *and* **Li, Gui Bin**, (**2005j:92002**)
Filfil, Rami S. *see* **Ruan, Shigui**, **2005a:92012**
Flerov, Yu. A. *see* **Vyshinskiĭ, L. L. et al.**
Fokas, A. S. (*with* Kurylev, Yaroslav V.; Marinakis, V.) The unique determination of neuronal currents in the brain via magnetoencephalography. (English summary) **2005c:92006**
Folias, Stefanos E. (*with* Bressloff, Paul C.) Breathing pulses in an excitatory neural network. (English summary) **2005h:92006**
— *see also* **Bressloff, Paul C.**, **2005h:92005**
Forti, Mauro *see* **Di Marco, M. et al.**, **2005b:92009**
Fortuna, Luigi (*with* Frasca, Mattia; La Rosa, Manuela; Spata, Alessandro) Dynamics of neuron populations in noisy environments. (English summary)
Frank, Loren M. *see* **Brown, Emery N. et al.**, (**2005h:92008**)
Frasca, Mattia *see* **Fortuna, Luigi et al.**
Fujii, Hiroshi (*with* Tsuda, Ichiro) Neocortical gap junction-coupled interneuron systems may induce chaotic behavior itinerant among quasi-attractors exhibiting transient synchrony. (English summary) (*see* **2005j:92002**)
Gabbiani, Fabrizio *see* **Krahe, Rüdiger**, (**2005h:92008**)
Gabriel, J.-P. *see* **Kohli, R. et al.**, **2005e:92007**
Gál, V. (*with* Hámori, J.; Roska, Tamás; et al.) Receptive field atlas and related CNN models. (English summary)
Garhyan, P. *see* **Mahecha-Botero, A. et al.**, **2005k:92013**
Garliauskas, Algis An influence of nonlinearities to storage capacity of neural networks. (English and Lithuanian summaries)
Gauthier, Daniel J. *see* **Kalb, Soma S. et al.**
Gedeon, Tomáš (*with* Holzer, Matt) Phase locking in integrate-and-fire models with refractory periods and modulation. (English summary) **2005m:92007**
— *see also* **Mumey, Brendan et al.**, (**2005j:92002**)
Gerstner, Wulfram (*with* Kistler, Werner M.) ★Spiking neuron models. (English summary) **2005g:92007**
Glantz, Raymon M. *see* **Johnson, Don H.**, (**2005j:92002**)
Gottwald, Georg A. (*with* Kramer, Lorenz) On propagation failure in one- and two-dimensional excitable media. (English summary) **2005d:92005**
Graham, Bruce P. (*with* van Ooyen, Arjen) Transport limited effects in a model of dendritic branching. (English summary)
— *see also* **McLean, Douglas R. et al.**, **2005b:92011** *and* (**2005j:92002**)
Greenwood, Priscilla E. (*with* Müller, Ursula U.; Ward, Lawrence M.) Soft threshold stochastic resonance. (English summary) **2005k:92009**
Grinev, I. L. *see* **Vyshinskiĭ, L. L. et al.**
Gu, Huaguang *see* **Yang, Zhuoqin et al.**
Guantes, R. (*with* de Polavieja, Gonzalo G.) Variability in noise-driven integrator neurons. (English summary)
Guillamon i Grabolosa, Toni An introduction to the mathematics of neural activity. (Catalan. Catalan summary)
Gutkin, Boris (*with* Hely, Tim; Jost, Jürgen) Noise delays onset of sustained firing in a minimal model of persistent activity. (English summary) (*see* **2005j:92002**)
Hachemaoui, M. *see* **Moore, L. E. et al.**
Hámori, J. *see* **Gál, V. et al.**
Hasegawa, Hideo Augmented moment method for stochastic ensembles with delayed couplings. I. Langevin model. (English summary) **2005k:92010**
— Augmented moment method for stochastic ensembles with delayed couplings. II. FitzHugh-Nagumo model. (English summary) **2005k:92011**
Hauptmann, C. (*with* Popovich, O. V.; Tass, Peter A.) Multisite coordinated delayed feedback for an effective desynchronization of neuronal networks. (English summary)
Hawkes, Alan G. Stochastic modelling of single ion channels. (*see* **2005h:92008**)
Hayashi, Hatsuo *see* **Yoshida, Motoharu**, **2005e:92012**
He, Jiping *see* **Zhu, Liqiang et al.**, **2005k:92019**
van der Helm, Peter A. Transparallel processing by hyperstrings. (English summary)
Hely, Tim *see* **Gutkin, Boris et al.**, (**2005j:92002**)
Holzer, Matt *see* **Gedeon, Tomáš**, **2005m:92007**
Hoppensteadt, Frank C. *see* **Nishikawa, Takashi et al.**, **2005e:92008** *and* **Zhu, Liqiang et al.**, **2005k:92019**
Horn, David *see* **Aviel, Yuval et al.**, (**2005j:92002**) *and* **Persi, Erez et al.**, (**2005j:92002**)
Hu, Dewen *see* **Yuan, Zhaohui et al.**, **2005f:92008**
Hu, San-Jue *see* **Xie, Yong[1] et al.**, **2005k:92018**
Huang, Li Hong[1] *see* **Yuan, Zhaohui et al.**, **2005f:92008** *and* **Zhu, Huiyan**, (**2005c:39001**)
Huber, Martin T. *see* **Mosekilde, Erik et al.**
Husbands, Phil *see* **Philippides, Andrew et al.**, (**2005h:92008**)
Hutt, Axel (*with* Atay, Fatihcan M.) Analysis of nonlocal neural fields for both general and gamma-distributed connectivities. (English summary) **2005k:92012**
Idoux, E. *see* **Moore, L. E. et al.**
Itti, Laurent Modelling primate visual attention. (*see* **2005h:92008**)
Jafri, Saleet M. (*with* Yang, Keun-Hang) Modelling neuronal calcium dynamics. (*see* **2005h:92008**)
Jamison, James E. *see* **Botelho, Fernanda**, **2005h:92004**
Jin, Dezhe Z. Spiking neural network for recognizing spatiotemporal sequences of spikes. (English summary) **2005e:92006**
Johnson, Don H. (*with* Glantz, Raymon M.) When does interval coding occur? (English summary) (*see* **2005j:92002**)
Johnson, Neil F. *see* **Kay, Roland**
Jost, Jürgen *see* **Gutkin, Boris et al.**, (**2005j:92002**)
Kalb, Soma S. (*with* Tolkacheva, Elena G.; Schaeffer, David G.; Gauthier, Daniel J.; Krassowska, Wanda) Restitution in mapping models with an arbitrary amount of memory. (English summary)
Kanev, Jacob (*with* Wenning, Gregor; Obermayer, Klaus) Approximating the response-stimulus correlation for the integrate-and-fire neuron. (English summary) (*see* **2005j:92002**)
Kang, Yan-Mei (*with* Xu, Jian-Xue; Xie, Yong[1]) A further insight into stochastic resonance in an integrate-and-fire neuron with noisy periodic input. (English summary) **2005i:92004**
— *see also* **Xie, Yong[1] et al.**, **2005k:92018**
Kartynnik, A. V. (*with* Linkevich, A. D.) Sufficient conditions for retrieval of memorized patterns by analog neural networks with synaptic and input Wiener noise. (English summary)
Kawamura, Masaki (*with* Tokunaga, Ryuji; Okada, Masato) Bifurcation analysis in an associative memory model. (English summary) **2005j:92011**
Kay, Roland (*with* Johnson, Neil F.) Memory and self-induced shocks in an evolutionary population competing for limited resources. (English summary)
Kern, A. *see* **Christen, M. et al.**, **2005j:92010**
Khrennikov, Andrei Yu. On quantum-like probabilistic structure of mental information. (English summary)
Kistler, Werner M. *see* **Gerstner, Wulfram**, **2005g:92007**
Kitajima, Hiroyuki (*with* Kurths, Jürgen) Synchronized firing of FitzHugh-Nagumo neurons by noise. (English summary)
Kobayashi, Tetsuya J. *see* **Chen, Luonan et al.**, **2005j:92008**
Kohli, R. (*with* Gabriel, J.-P.; Clarke, P. G. H.) Mathematical analysis of competition between sensory ganglion cells for neurotrophic factor in the skin. (English summary) **2005e:92007**
König, Peter *see* **Benucci, Andrea et al.**
Krahe, Rüdiger (*with* Gabbiani, Fabrizio) Bursting activity in weakly electric fish. (*see* **2005h:92008**)
Kramer, Lorenz *see* **Gottwald, Georg A.**, **2005d:92005**
Krasichkov, L. V. *see* **Andreev, K. V.**
Krassowska, Wanda *see* **Kalb, Soma S. et al.**
Kurths, Jürgen *see* **Kitajima, Hiroyuki**
Kurylev, Yaroslav V. *see* **Fokas, A. S. et al.**, **2005c:92006**
Labouriau, Isabel S. (*with* Rito, Carlos M. S. G.) Stability of equilibria in equations of Hodgkin-Huxley type. (English summary) **2005g:92008**
Lai, Ying-Cheng *see* **Nishikawa, Takashi et al.**, **2005e:92008** *and* **Zhu, Liqiang et al.**, **2005k:92019**
Laing, Carlo R. Large ghostbursting in sensory cells of electric fish. (English summary)
Lansner, Anders *see* **Rehn, Martin**, (**2005j:92002**)
La Rosa, Manuela *see* **Fortuna, Luigi et al.**
Lazar, Aurel A. Time encoding with an integrate-and-fire neuron with a refractory period. (English summary) (*see* **2005j:92002**)
Leng, Gareth (*with* Reiff-Marganiec, Arleta; Ludwig, Mike; Sabatier, Nancy) Generating quantitatively accurate, but computationally concise, models of single neurons. (*see* **2005h:92008**)
Levy, William B. *see* **Tyrcha, Joanna**, (**2005j:92002**)
Lewis, Timothy J. (*with* Rinzel, John) Dendritic effects in networks of electrically coupled fast-spiking interneurons. (English summary) (*see* **2005j:92002**)
Li, Chun Guang (*with* Chen, Guanrong) Coexisting chaotic attractors in a single neuron model with adapting feedback synapse. (English summary)
Li, Gui Bin (*with* Feng, Jian Feng[1]) Stimulus-evoked synchronization in neuronal models. (English summary) (*see* **2005j:92002**)
Lindner, Benjamin (*with* Longtin, André) Effect of an exponentially decaying threshold on the firing statistics of a stochastic integrate-and-fire neuron. (English summary)
Lindsay, K. A. (*with* Rosenberg, J. R.; Tucker, Gayle) A note on the discrepancy between the predicted and observed speed of the propagated action potential in the squid giant axon. (English summary)
Linkevich, A. D. *see* **Kartynnik, A. V.**
Longtin, André *see* **Chacron, Maurice J. et al.**, **2005c:92005** *and* **Lindner, Benjamin**
Lorenzo, Nieves (*with* Montejo, Noelia; Pérez-Muñuzuri, Vicente; Pérez-Villar, Vicente) Spatiotemporal behavior in networks of Ca3 region in the hippocampus. (English summary) (*see* **2005j:92002**)
— *see also* **Montejo, Noelia et al.**, (**2005d:92001**)
Lourenço, Carlos Attention-locked computation with chaotic neural nets. (English summary) **2005b:92010**
Lu, Qishao *see* **Yang, Zhuoqin et al.**
Ludwig, Mike *see* **Leng, Gareth et al.**, (**2005h:92008**)
Luk′yanova, T. O. Analysis of the stability of a neural Hopfield system with an uncertain interconnection matrix. (Russian. English summary)
Maass, Wolfgang (*with* Natschlaeger, Thomas; Markram, Henry) Computational models for generic cortical microcircuits. (*see* **2005h:92008**)
— (*with* Markram, Henry) On the computational power of circuits of spiking neurons. (English summary) **2005f:92007**

Mahecha-Botero, A. (*with* Garhyan, P.; Elnashaie, S. S. E. H.) Modeling, bifurcation, and chaotic behaviour of a coupled acetylcholinesterase/choline acetyltransferase enzymes neurocycle. (English summary) **2005k:92013**
Marinakis, V. *see* **Fokas, A. S. et al., 2005c:92006**
Marinaro, Maria (*with* Scarpetta, Silvia) Noise induces synchronous and phase-locked oscillations in a cortical model. (English summary) (*see* **2005j:92002**)
— (*with* Scarpetta, Silvia) Effects of noise in a cortical neural model. (English summary) **2005k:92014**
Markram, Henry *see* **Maass, Wolfgang et al., 2005f:92007** *and* (**2005h:92008**)
Massad, Eduardo *see* **Rocha, Armando Freitas et al., 2005h:92007**
McLean, Douglas R. (*with* van Ooyen, Arjen; Graham, Bruce P.) Continuum model for tubulin-driven neurite elongation. (English summary) (*see* **2005j:92002**)
— (*with* Graham, Bruce P.) Mathematical formulation and analysis of a continuum model for tubulin-driven neurite elongation. (English summary) **2005b:92011**
Miller, John P. *see* **Mumey, Brendan et al.,** (**2005j:92002**)
Milton, John G. *see* **Cabrera, Juan Luis**
Miura, Keiji (*with* Okada, Masato) Pulse-coupled resonate-and-fire models. (English summary) **2005k:92015**
Montejo, Noelia (*with* Lorenzo, Nieves; Pérez-Muñuzuri, Vicente; Pérez-Villar, Vicente) Control of the behavior in a neuronal system with time-delay. (English summary) (*see* **2005d:92001**)
— *see also* **Lorenzo, Nieves et al.,** (**2005j:92002**)
Moore, L. E. (*with* Hachemaoui, M.; Idoux, E.; Vibert, N.; Vidal, P. P.) The linear and non-linear relationships between action potential discharge rates and membrane potential in model vestibular neurons. (English summary)
Morasso, Pietro G. (*with* Sanguineti, Vittorio) Modelling motor control paradigms. (*see* **2005h:92008**)
Moreno, Rubén (*with* Parga, Néstor) Response of a LIF neuron to inputs filtered with arbitrary time scale. (English summary) (*see* **2005j:92002**)
Mosekilde, Erik (*with* Sosnovtseva, O. V.; Postnov, D.; Braun, H. A.; Huber, Martin T.) Noise-activated and noise-induced rhythms in neural systems. (English summary)
Movellan, Javier R. *see* **Schwartz, Odelia et al.,** (**2005j:92002**)
Müller, Ursula U. *see* **Greenwood, Priscilla E. et al., 2005k:92009**
Mumey, Brendan (*with* Sarkar, Aditi; Gedeon, Tomáš; Dimitrov, Alex; Miller, John P.) Finding neural codes using random projections. (English summary) (*see* **2005j:92002**)
Nakano, Kaoru *see* **Sakai, Yutaka et al.,** (**2005j:92002**)
Natschlaeger, Thomas *see* **Maass, Wolfgang et al.,** (**2005h:92008**)
Nicholson, Charles *see* **Tao, Lian**
Nikitchenko, A. *see* **Christen, M. et al., 2005j:92010**
Nishikawa, Takashi (*with* Hoppensteadt, Frank C.; Lai, Ying-Cheng) Oscillatory associative memory network with perfect retrieval. (English summary) **2005e:92008**
Nistri, Paolo *see* **Di Marco, M. et al., 2005b:92009**
Obermayer, Klaus *see* **Kanev, Jacob et al.,** (**2005j:92002**)
O'Connor, S. C. (*with* Robinson, Peter A.) Unifying and interpreting the spectral wavenumber content of EEGs, ECoGs, and ERPs. (English summary)
Okada, Masato *see* **Kawamura, Masaki et al., 2005j:92011** *and* **Miura, Keiji, 2005k:92015**
van Ooyen, Arjen *see* **Graham, Bruce P.; van Elburg, Ronald A. J.,** (**2005j:92002**) *and* **McLean, Douglas R. et al.,** (**2005j:92002**)
O'Shea, Michael *see* **Philippides, Andrew et al.,** (**2005h:92008**)
Owen, Markus R. *see* **Coombes, S., 2005k:92008**
Pakdaman, Khashayar *see* **Chacron, Maurice J. et al., 2005c:92005** *and* **Tateno, Takashi, 2005d:92006**
Panarese, Alessandro *see* **Di Garbo, Angelo et al.,** (**2005j:92002**)
Panzeri, Stefano *see* **Petersen, Rasmus S.,** (**2005h:92008**)
Parga, Néstor *see* **Moreno, Rubén,** (**2005j:92002**)
Partensky, Peretz *see* **Swinehart, Christian D. et al.,** (**2005j:92002**)
Pereira, Alfredo, Jr. *see* **Rocha, Armando Freitas et al., 2005h:92007**
Pérez-Muñuzuri, Vicente *see* **Montejo, Noelia et al.,** (**2005d:92001**) *and* **Lorenzo, Nieves et al.,** (**2005j:92002**)
Pérez-Villar, Vicente *see* **Montejo, Noelia et al.,** (**2005d:92001**) *and* **Lorenzo, Nieves et al.,** (**2005j:92002**)
Perlovskiĭ, L. I. (*with* Deming, Ross) A mathematical theory for learning, and its application to time-varying computed tomography. (English summary)
Persi, Erez (*with* Horn, David; Segev, Ronen; Ben-Jacob, Eshel; Volman, Vladislav) Neural modeling of synchronized bursting events. (English summary) (*see* **2005j:92002**)
Petersen, Rasmus S. (*with* Panzeri, Stefano) A case study of population coding: stimulus localisation in the barrel cortex. (*see* **2005h:92008**)
Petrosyan, Agavni *see* **Saberi, Kourosh**
Philippides, Andrew (*with* Husbands, Phil; Smith, Tom; O'Shea, Michael) Structure-based models of NO diffusion in the nervous system. (*see* **2005h:92008**)
Phillipson, Paul E. (*with* Schuster, Peter Karl) An analytic picture of neuron oscillations. (English summary) **2005b:92012**
Pikovskiĭ, A. S. *see* **Rozenblyum, M. G., 2005k:92016**
de Polavieja, Gonzalo G. *see* **Guantes, R.**
Popovich, O. V. *see* **Hauptmann, C. et al.**
Postnov, D. *see* **Mosekilde, Erik et al.**
Purvey, Ian *see* **Skeldon, Anne C., 2005m:92008**
Rabinovich, Mikhail I. *see* **Zhigulin, Valentin P.,** (**2005j:92002**)
Raol, Jay H. *see* **Cox, Steven J., 2005b:92008**
Rapp, P. E. (*with* Cellucci, C. J.; Watanabe, T. A. A.; Albano, A. M.) Quantitative characterization of the complexity of multichannel human EEGs. (English summary)
Rappel, Wouter-Jan *see* **Acebrón, Juan A. et al., 2005f:92006**
Rehn, Martin (*with* Lansner, Anders) Sequence memory with dynamical synapses. (English summary) (*see* **2005j:92002**)
Reiff-Marganiec, Arleta *see* **Leng, Gareth et al.,** (**2005h:92008**)
Ren, Wei[3] *see* **Yang, Zhuoqin et al.**
Renart, Alfonso (*with* Brunel, Nicolas; Wang, Xiao-Jing) Mean-field theory of irregularly spiking neuronal populations and working memory in recurrent cortical networks. (*see* **2005h:92008**)
Rennie, Christopher J. *see* **Rowe, Donald L. et al.**
Richardson, Magnus J. E. Effects of synaptic conductance on the voltage distribution and firing rate of spiking neurons. (English summary) **2005e:92009**
Rinzel, John *see* **Lewis, Timothy J.,** (**2005j:92002**)
Rito, Carlos M. S. G. *see* **Labouriau, Isabel S., 2005g:92008**
Ritt, Jason Evaluation of entrainment of a nonlinear neural oscillator to white noise. (English summary) **2005j:92012**
Robinson, Hugh P. C. The biophysical basis of firing variability in cortical neurons. (*see* **2005h:92008**)
Robinson, Peter A. *see* **O'Connor, S. C.** *and* **Rowe, Donald L. et al.**
Rocha, Armando Freitas (*with* Massad, Eduardo; Pereira, Alfredo, Jr.) ★ The brain: fuzzy arithmetic to quantum computing. **2005h:92007**
Rolls, Edmund T. The operation of memory systems in the brain. (*see* **2005h:92008**)
Rosenberg, J. R. *see* **Lindsay, K. A. et al.**
Roska, Tamás *see* **Gál, V. et al.**
Rowe, Donald L. (*with* Robinson, Peter A.; Rennie, Christopher J.) Estimation of neurophysiological parameters from the waking EEG using a biophysical model of brain dynamics. (English summary)
Rozenblyum, M. G. (*with* Pikovskiĭ, A. S.) Delayed feedback control of collective synchrony: an approach to suppression of pathological brain rhythms. (English summary) **2005k:92016**
Ruan, Shigui (*with* Filfil, Rami S.) Dynamics of a two-neuron system with discrete and distributed delays. (English summary) **2005a:92012**
Sabatier, Nancy *see* **Leng, Gareth et al.,** (**2005h:92008**)
Saberi, Kourosh (*with* Petrosyan, Agavni) Neural cross-correlation and signal decorrelation: insights into coding of auditory space. (English summary)
Sacerdote, Laura (*with* Sirovich, Roberta) A Wiener process with inverse Gaussian time distributed jumps as a model for neuronal activity. (English summary) (*see* **2005d:92001**)
— (*with* Zucca, Cristina) On the relationship between interspikes interval distribution and boundary shape in the Ornstein-Uhlenbeck neuronal model. (English summary) (*see* **2005d:92001**)
Saftenku, E. È. Modeling of slow glutamate diffusion and AMPA receptor activation in the cerebellar glomerulus. (English summary)
Sakai, Yutaka (*with* Nakano, Kaoru; Yoshizawa, Shuji) Synaptic regulation on various STDP rules. (English summary) (*see* **2005j:92002**)
Salinas, Emilio (*with* Sejnowski, Terrence J.) Correlated neuronal activity: high- and low-level views. (*see* **2005h:92008**)
Sanchez-Vives, M. V. *see* **Szczepański, Janusz et al.,** (**2005j:92002**)
Sanguineti, Vittorio *see* **Morasso, Pietro G.,** (**2005h:92008**)
Saraga, Fernanda (*with* Skinner, Frances K.) Location, location, location (and density) of gap junctions in multi-compartment models. (English summary) (*see* **2005j:92002**)
Sarkar, Aditi *see* **Mumey, Brendan et al.,** (**2005j:92002**)
Scarpetta, Silvia *see* **Marinaro, Maria, 2005k:92014** *and* (**2005j:92002**)
Schaeffer, David G. *see* **Kalb, Soma S. et al.**
Schlosser, Paul M. *see* **Banks, H. T. et al.**
Schuster, Peter Karl *see* **Phillipson, Paul E., 2005b:92012**
Schwartz, Odelia (*with* Movellan, Javier R.; Wachtler, Thomas; Albright, Thomas D.; Sejnowski, Terrence J.) Spike count distributions, factorizability, and contextual effects in area V1. (English summary) (*see* **2005j:92002**)
Segev, Ronen *see* **Persi, Erez et al.,** (**2005j:92002**)
Sejnowski, Terrence J. *see* **Salinas, Emilio,** (**2005h:92008**) *and* **Schwartz, Odelia et al.,** (**2005j:92002**)
Seth, Anil K. (*with* Edelman, Gerald M.) Theoretical neuroanatomy: analyzing the structure, dynamics, and function of neuronal networks. (English summary) (*see* **2005g:05005**)
Shi, Xiao Min (*with* Dai, Shi Qiang) Intracellular solitary pulse calcium waves in frog sympathetic neurons. (Chinese. English and Chinese summaries) **2005k:92017**
Shil'nikov, A. L. (*with* Tsymbalyuk, G. S.) Homoclinic bifurcations of periodic orbits en a route from tonic-spiking to bursting in neuron models. (English summary) **2005g:92009**
Shirokov, N. I. *see* **Vyshinskiĭ, L. L. et al.**
Shouval, Harel Z. *see* **Yeung, Luk C. et al., 2005e:92011**
Sirovich, Roberta *see* **Sacerdote, Laura,** (**2005d:92001**)
Sivaloganathan, S. (*with* Stastna, M.; Tenti, G.; Drake, James M.) A viscoelastic model of the brain parenchyma with pulsatile ventricular pressure. (English summary)
Skeldon, Anne C. (*with* Purvey, Ian) The effect of different forms for the delay in a model of the nephron. (English summary) **2005m:92008**
Skinner, Frances K. *see* **Saraga, Fernanda,** (**2005j:92002**)
Smith, Brian H. *see* **Borisyuk, Alla,** (**2005j:92002**)
Smith, Tom *see* **Philippides, Andrew et al.,** (**2005h:92008**)
Song, Sen Hebbian learning and spike-timing-dependent plasticity. (*see* **2005h:92008**)
Sosnovtseva, O. V. *see* **Mosekilde, Erik et al.**
Spata, Alessandro *see* **Fortuna, Luigi et al.**
Srivastava, Vipin (*with* Edwards, S. F.) A mathematical model of capacious and efficient memory that survives trauma. (English summary)
Stastna, M. *see* **Sivaloganathan, S. et al.**
Steeb, Willi-Hans *see* **Christen, M. et al., 2005j:92010**
Stoop, R. (*with* Blank, D.) A mathematical approach towards the issue of synchronization in neocortical neural networks. (English summary) (*see* **2005b:93006**)
— *see also* **Christen, M. et al., 2005j:92010**
Swinehart, Christian D. (*with* Bouchard, Kris; Partensky, Peretz; Abbott, L. F.) Control of network activity through neuronal response modulation. (English summary) (*see* **2005j:92002**)
Szczepański, Janusz (*with* Amigó, José M.; Wajnryb, E.; Sanchez-Vives, M. V.) Characterizing spike trains with Lempel-Ziv complexity. (English summary) (*see* **2005j:92002**)
Tao, Lian (*with* Nicholson, Charles) Maximum geometrical hindrance to diffusion in brain extracellular space surrounding uniformly spaced convex cells. (English summary)
Tartaglia, Giangaetano *see* **Feng, Jian Feng**[1] **et al., 2005a:92011**
Tass, Peter A. *see* **Hauptmann, C. et al.**
Tateno, Takashi (*with* Pakdaman, Khashayar) Random dynamics of the Morris-Lecar neural model. (English summary) **2005d:92006**
Tenti, G. *see* **Sivaloganathan, S. et al.**

Tesi, Alberto *see* **Di Marco, M. et al., 2005b:92009**
Theumann, W. K. *see* **Bollé, D. et al.**
Tieleman, Peter D. Atomistic simulations of ion channels. (*see* **2005h:92008**)
Tiesinga, P. H. E. Chaos-induced modulation of reliability boosts output firing rate in downstream cortical areas. (English summary) **2005e:92010**
Tirozzi, Brunello *see* **Feng, Jian Feng[1] et al., 2005a:92011**
Tokunaga, Ryuji *see* **Kawamura, Masaki et al., 2005j:92011**
Tolkacheva, Elena G. *see* **Kalb, Soma S. et al.**
Tran, Hien T. *see* **Banks, H. T. et al.**
Tsuda, Ichiro *see* **Fujii, Hiroshi, (2005j:92002)**
Tsymbalyuk, G. S. *see* **Shil'nikov, A. L., 2005g:92009**
Tucker, Gayle *see* **Lindsay, K. A. et al.**
Tuckwell, Henry C. (*with* Feng, Jian Feng[1]) A theoretical overview. (*see* **2005h:92008**)
Tyrcha, Joanna (*with* Levy, William B.) Another contribution by synaptic failures to energy efficient processing by neurons. (English summary) (*see* **2005j:92002**)
Verschure, Paul F. M. J. *see* **Benucci, Andrea et al.**
Vibert, N. *see* **Moore, L. E. et al.**
Vidal, P. P. *see* **Moore, L. E. et al.**
Villa, Alessandro E. P. *see* **Celletti, Alessandra, (2005d:92001)**
Volman, Vladislav *see* **Persi, Erez et al., (2005j:92002)**
Vyshinskiĭ, L. L. (*with* Grinev, I. L.; Dunin-Barkovskiĭ, V. L.; Flerov, Yu. A.; Shirokov, N. I.) ★ Мониторинг, анализ и прогнозирование поведения многоагентных систем на базе нейрокомпьютерной модели мозжечка. (Russian. Russian summary) [Monitoring, analysis, and prediction of the behavior of multi-agent systems on the basis of a neurocomputer model of the cerebellum]
Wachtler, Thomas *see* **Schwartz, Odelia et al., (2005j:92002)**
Wajnryb, E. *see* **Szczepański, Janusz et al., (2005j:92002)**
Wang, Rui-qi *see* **Chen, Luonan et al., 2005j:92008**
Wang, Xiao-Jing *see* **Renart, Alfonso et al., (2005h:92008)**
Wang, Zi Dan *see* **Chik, D. T. W. et al., 2005j:92009**
Ward, Lawrence M. *see* **Greenwood, Priscilla E. et al., 2005k:92009**
Watanabe, T. A. A. *see* **Rapp, P. E. et al.**
Wenning, Gregor *see* **Kanev, Jacob et al., (2005j:92002)**
Werning, Markus Synchrony and composition: toward a cognitive architecture between classicism and connectionism. (English summary) **2005c:92007**
Xie, Yong[1] (*with* Xu, Jian-Xue; Kang, Yan-Mei; Hu, San-Jue; Duan, Yu-Bin) Critical amplitude curves for different periodic stimuli and different dynamical mechanisms of excitability. (English summary) **2005k:92018**
— *see also* **Kang, Yan-Mei et al., 2005i:92004**
Xu, Jian-Xue *see* **Kang, Yan-Mei et al., 2005i:92004** *and* **Xie, Yong[1] et al., 2005k:92018**
Yang, Keun-Hang *see* **Jafri, Saleet M., (2005h:92008)**
Yang, Zhuoqin (*with* Lu, Qishao; Gu, Huaguang; Ren, Wei[3]) GWN-induced bursting, spiking, and random subthreshold impulsing oscillation before Hopf bifurcations in the Chay model. (English summary)
Yeung, Luk C. (*with* Castellani, Gastone C.; Shouval, Harel Z.) Analysis of the intraspinal calcium dynamics and its implications for the plasticity of spiking neurons. (English summary) **2005e:92011**
Yoshida, Motoharu (*with* Hayashi, Hatsuo) Regulation of spontaneous rhythmic activity and organization of pacemakers as memory traces by spike-timing-dependent synaptic plasticity in a hippocampal model. (English summary) **2005e:92012**
Yoshizawa, Shuji *see* **Sakai, Yutaka et al., (2005j:92002)**
Yuan, Zhaohui (*with* Hu, Dewen; Huang, Li Hong[1]) Stability and bifurcation analysis on a discrete-time system of two neurons. (English summary) **2005f:92008**
Zhang, Zuohua (*with* Ballard, Dana H.) A single spike model of predictive coding. (English summary) (*see* **2005j:92002**)
Zhigulin, Valentin P. (*with* Rabinovich, Mikhail I.) An important role of spike timing dependent synaptic plasticity in the formation of synchronized neural ensembles. (English summary) (*see* **2005j:92002**)
Zhu, Huiyan (*with* Huang, Li Hong[1]) Dynamic analysis of a discrete-time network of two neurons with delayed feedback. (English summary) (*see* **2005c:39001**)
Zhu, Liqiang (*with* Lai, Ying-Cheng; Hoppensteadt, Frank C.; He, Jiping) Characterization of neural interaction during learning and adaptation from spike-train data. (English summary) **2005k:92019**
Zucca, Cristina *see* **Sacerdote, Laura, (2005d:92001)**

Items listed otherwise than by author

Computational neuroscience ★ Computational neuroscience. **2005h:92008**

Items with secondary classifications in 92C20

Afraimovich, Valentin S. (*with* Zhigulin, Valentin P.; Rabinovich, Mikhail I.) On the origin of reproducible sequential activity in neural circuits. (English summary) **2005g:37168**
— (*with* Rabinovich, Mikhail I.; Varona, Pablo) Heteroclinic contours in neural ensembles and the winnerless competition principle. (English summary) **2005a:37166**
Aihara, Kazuyuki *see* **Tsuji, Shigeki et al., 2005c:37173**
(Arbib, Michael A.) *see* **Handbook of brain theory and neural networks, 2005m:68002**
Atay, Fatihcan M. (*with* Hutt, Axel) Stability and bifurcations in neural fields with finite propagation speed and general connectivity. (English summary) **2005m:34174**
Badel, Laurent (*with* Tonnelier, Arnaud) Pulse propagation in discrete excitatory networks of integrate-and-fire neurons. (English summary) **2005j:37146**
Baigent, Stephen *see* **Banaji, Murad et al., 2005m:92012**
Baltanás, J. P. *see* **Casado Vázquez, José Manuel, 2005b:37208**
Banaji, Murad (*with* Tachtsidis, Ilias; Delpy, David; Baigent, Stephen) A physiological model of cerebral blood flow control. (English summary) **2005m:92012**
Beamish, Dan (*with* Peskun, Christopher; Wu, Jian Hong) Critical delay for overshooting in planned arm movements with delayed feedback. (English summary) **2005i:92003**
Bell, Jonathan (*with* Craciun, Gheorghe) A distributed parameter identification problem in neuronal cable theory models. (English summary) **2005m:35124**
Bielecki, Andrzej (*with* Jabłoński, Dariusz; Kedzierski, Marek) Properties and applications of weakly nonlinear neurons. (English summary) **2005c:37039**
Bondarenko, Vladimir E. (*with* Tsymbalyuk, G. S.; Patel, Girish; DeWeerth, Stephen P.; Calabrese, Ronald L.) Bifurcation of synchronous oscillations into torus in a system of two reciprocally inhibitory silicon neurons: experimental observation and modeling. (English summary)
Bottaccio, M. *see* **De Lucia, M. et al., 2005m:82123**
Buonocore, Aniello (*with* Esposito, Giampiero; Giorno, V.; Valerio, C.) Towards dead time inclusion in neuronal modeling. (English summary) **2005a:60124**
Cabrera, Juan Luis (*with* Milton, John G.) Stick balancing: on-off intermittency and survival times. (English summary) **2005c:93053**
Calabrese, Ronald L. *see* **Bondarenko, Vladimir E. et al.**
Campbell, Sue Ann (*with* Edwards, Roderick; van den Driessche, P.) Delayed coupling between two neural network loops. (English summary) **2005h:92002**
Cao, Jin De *see* **Song, Qian Kun**
Casado Vázquez, José Manuel (*with* Baltanás, J. P.) Reliability of spike timing in a neuron model. (English summary) **2005b:37208**
Chang, Yu *see* **Jing, Zhujun et al., 2005c:37170**
Chen, Guanrong *see* **Min, Le-Quan, 2005d:37178**
Chow, Shui-Nee (*with* Lara, Teodoro) Neurons: a numerical approach. (English and Spanish summaries) **2005j:37147**
Citti, Giovanna (*with* Manfredini, Maria; Sarti, Alessandro) Neuronal oscillations in the visual cortex: Γ-convergence to the Riemannian Mumford-Shah functional. (English summary) **2005c:49029**
Cornejo-Pérez, Octavio (*with* Femat, Ricardo) Unidirectional synchronization of Hodgkin-Huxley neurons. (English summary) **2005k:34289**
Courbage, M. (*with* Kazantsev, V. B.; Nekorkin, V. I.; Senneret, M.) Emergence of chaotic attractor and anti-synchronization for two coupled monostable neurons. (English summary) **2005g:37169**
Craciun, Gheorghe *see* **Bell, Jonathan, 2005m:35124**
Curtu, Rodica (*with* Ermentrout, George Bard) Pattern formation in a network of excitatory and inhibitory cells with adaptation. (English summary) **2005j:37148**
— Stability analysis for a functional-differential equation in biology. (English summary)
— *see also* **Oşan, Remus et al., 2005a:92005**
Dahlem, Markus A. (*with* Müller, Stefan C.) Reaction-diffusion waves in neuronal tissue and the window of cortical excitability. (English summary)
Dai, Binxiang *see* **Zhu, Huiyan et al., 2005f:34201**
Delpy, David *see* **Banaji, Murad et al., 2005m:92012**
De Lucia, M. (*with* Bottaccio, M.; Montuori, M.; Pietronero, L.) Topological approach to neural complexity. (English summary) **2005m:82123**
(De Schutter, Erik) *see* **Computational neuroscience, 2005j:92002**
DeWeerth, Stephen P. *see* **Bondarenko, Vladimir E. et al.**
Ditlevsen, Susanne (*with* Lansky, Petr) Estimation of the input parameters in the Ornstein-Uhlenbeck neuronal model. (English summary) **2005m:82124**
van den Driessche, P. *see* **Campbell, Sue Ann et al., 2005h:92002**
Drover, Jonathan (*with* Rubin, Jonathan E.; Su, Jianzhong; Ermentrout, George Bard) Analysis of a canard mechanism by which excitatory synaptic coupling can synchronize neurons at low firing frequencies. (English summary) **2005h:34095**
Dzakpasu, Rhonda (*with* Żochowski, Michał) Adaptation through minimization of the phase lag in coupled nonidentical systems. (English summary)
Earn, David J. D. *see* **Wu, Ying et al.**
Edwards, Roderick *see* **Campbell, Sue Ann et al., 2005h:92002**
Ermentrout, George Bard *see* **Oşan, Remus et al., 2005a:92005**; **Drover, Jonathan et al., 2005h:34095** *and* **Curtu, Rodica, 2005j:37148**
Esposito, Giampiero *see* **Buonocore, Aniello et al., 2005a:60124**
Femat, Ricardo *see* **Cornejo-Pérez, Octavio, 2005k:34289**
French, D. A. Identification of a free energy functional in an integro-differential equation model for neuronal network activity. (English summary) **2005e:45015**
Fu, Xiang-ling (*with* Zhou, Zhan) Stable periodic solutions of m-dimensional nonlinear difference system with delayed feedback. (English summary) **2005m:39024**
Ghigliazza, Raffaele (*with* Holmes, Philip J.) Minimal models of bursting neurons: how multiple currents, conductances, and timescales affect bifurcation diagrams. (English summary) **2005i:37104**
— (*with* Holmes, Philip J.) A minimal model of a central pattern generator and motoneurons for insect locomotion. (English summary) **2005i:37105**
Gilding, Brian H. (*with* Kersner, Robert) ★ Travelling waves in nonlinear diffusion-convection reaction. **2005k:35002**
Giorno, V. *see* **Buonocore, Aniello et al., 2005a:60124**
Grabowski, A. (*with* Kosiński, R. A.; Krawiecki, A.) Dynamics of a one-dimensional neural network with a "small world"—topology of synaptic connections. (English summary)
Guo, Bo Ling *see* **Jing, Zhujun et al., 2005c:37170**
Guo, Shangjiang (*with* Huang, Li Hong[1]; Wang, Lin[3]) Linear stability and Hopf bifurcation in a two-neuron network with three delays. (English summary) **2005g:34189**
He, Daihai *see* **Wu, Ying et al.**
Holcman, D. (*with* Schuss, Zeev) Escape through a small opening: receptor trafficking in a synaptic membrane. (English summary) **2005i:82055**
Holmes, Philip J. *see* **Ghigliazza, Raffaele, 2005i:37104** *and* **2005i:37105**
Hoppensteadt, Frank C. Random perturbations of Volterra dynamical systems in neuroscience. (English summary) **2005c:45001**
— Modeling the cumulative distribution function of spikes in neural networks. (English summary) **2005b:37209**
— *see also* **Izhikevich, E. M., 2005i:37107**
Huang, Li Hong[1] *see* **Zhu, Huiyan et al., 2005f:34201** *and* **Guo, Shangjiang et al., 2005g:34189**
Hutt, Axel *see* **Atay, Fatihcan M., 2005m:34174**
Ismail, G. A. F. Modified technique for solving advance-delay differential systems. (English summary) **2005m:65128**
Izhikevich, E. M. (*with* Hoppensteadt, Frank C.) Classification of bursting mappings. (English summary) **2005i:37107**
Jabłoński, Dariusz *see* **Bielecki, Andrzej et al., 2005c:37039**
Jalics, Jozsi Slow waves in mutually inhibitory neuronal networks. (English summary)

2005c:37169

Jing, Zhujun (*with* Chang, Yu; Guo, Bo Ling) Bifurcation and chaos in discrete FitzHugh-Nagumo system. (English summary) **2005c:37170**

Kadalbajoo, Mohan K. (*with* Sharma, Kapil Kumar) Numerical analysis of singularly perturbed delay differential equations with layer behavior. (English summary) **2005m:65147**

Kaiser, Andreas (*with* Schreiber, Thomas[2]) Nonparametric detection of dependences in stochastic point processes. (English summary) **2005b:37196**

Kawakami, Hiroshi *see* **Tsuji, Shigeki et al., 2005c:37173**

Kazantsev, V. B. *see* **Courbage, M. et al., 2005g:37169**

Kedzierski, Marek *see* **Bielecki, Andrzej et al., 2005c:37039**

Keller, Karsten (*with* Wittfeld, Katharina) Distances of time series components by means of symbolic dynamics. (English summary) **2005b:37197**

Kersner, Robert *see* **Gilding, Brian H., 2005k:35002**

Knight, Bruce W. *see* **Victor, Jonathan D., 2005e:94037**

Kosiński, R. A. *see* **Grabowski, A. et al.**

Kostova, Tanya (*with* Ravindran, Renuka; Schonbek, Maria) FitzHugh-Nagumo revisited: types of bifurcations, periodical forcing and stability regions by a Lyapunov functional. (English summary) **2005d:34086**

Koyama, Shinsuke (*with* Shinomoto, Shigeru) Histogram bin width selection for time-dependent Poisson processes. (English summary) **2005c:60057**

Krawiecki, A. *see* **Grabowski, A. et al.**

Lansky, Petr *see* **Ditlevsen, Susanne, 2005m:82124**

Lara, Teodoro *see* **Chow, Shui-Nee, 2005j:37147**

Li, Michael Y. *see* **Wei, Jun Jie, 2005m:34172**

Mahomed, F. M. *see* **Shih, Ming-Hsiang et al., 2005i:35132**

Manfredini, Maria *see* **Citti, Giovanna et al., 2005c:49029**

Martin, María Teresa *see* **Plastino, Angel Luis et al., (2005g:82001)**

(McCulloch, Warren S.) *see* **Piccinini, Gualtiero**

Merz, W. (*with* Rybka, Piotr) A free boundary problem describing reaction-diffusion problems in chemical vapor infiltration of pyrolytic carbon. (English summary) **2005d:35281**

Milton, John G. *see* **Cabrera, Juan Luis, 2005c:93053**

Min, Le-Quan (*with* Chen, Guanrong) Local activity of the Van der Pol CNN. (English summary) **2005d:37178**

Mitzenmacher, Michael (*with* Oliveira, Roberto Imbuzeiro; Spencer, Joel H.) A scaling result for explosive processes. (English summary) **2005c:60093**

Momoniat, Ebrahim *see* **Shih, Ming-Hsiang et al., 2005i:35132**

Montuori, M. *see* **De Lucia, M. et al., 2005m:82123**

Müller, Stefan C. *see* **Dahlem, Markus A.**

Nebaluev, S. I. The fundamental group of a tolerance space, and tolerant coverings. (Russian) **2005g:55021**

Nekorkin, V. I. *see* **Courbage, M. et al., 2005g:37169**

Nemoto, Iku Complex associative memory and complex single neuron model. (*see* **2005b:00018**)

Noonburg, V. W. Non-homogeneous Wilson-Cowan model. (English summary) **2005e:34128**

Ohya, Masanori Information dynamics and its application to recognition process. **2005f:94072**

Oliveira, Roberto Imbuzeiro *see* **Mitzenmacher, Michael et al., 2005c:60093**

Oşan, Remus (*with* Curtu, Rodica; Rubin, Jonathan E.; Ermentrout, George Bard) Multiple-spike waves in a one-dimensional integrate-and-fire neural network. (English summary) **2005a:92005**

Oshima, Marie (*with* Sakai, Hiroyuki[2]; Torii, Ryo) Modelling of inflow boundary conditions for image-based simulation of cerebrovascular flow. (English summary)

Paetz, Jürgen (*with* Schneider, Gisbert) A neuro-fuzzy approach to virtual screening in molecular bioinformatics. (English summary)

Patel, Girish *see* **Bondarenko, Vladimir E. et al.**

Pérez Castillo, I. (*with* Skantzos, N. S.) The Little-Hopfield model on a sparse random graph. (English summary) **2005d:82101**

Peskun, Christopher *see* **Beamish, Dan et al., 2005i:92003**

Piccinini, Gualtiero Functionalism, computationalism, and mental states. (English summary) **2005i:01007**

— The first computational theory of mind and brain: a close look at W. S. McCulloch and W. Pitts's "A logical calculus of ideas immanent in nervous activity" [Bull. Math. Biophys. **5** (1943), 115–133; MR0010388 (6,12a)]. (English summary)

Pietronero, L. *see* **De Lucia, M. et al., 2005m:82123**

(Pitts, Walter) *see* **Piccinini, Gualtiero**

Plastino, Angel Luis (*with* Martin, María Teresa; Rosso, O. A.) Generalized information measures and the analysis of brain electrical signals. (English summary) (*see* **2005g:82001**)

Polger, Thomas W. Neural machinery and realization. (English summary)

Rabinovich, Mikhail I. *see* **Afraimovich, Valentin S. et al., 2005a:37166** *and* **2005g:37168**

(Rajapakse, Jagath Chandana) *see* **Neural information processing: research and development, 2005g:68143**

Ravindran, Renuka *see* **Kostova, Tanya et al., 2005d:34086**

Rosso, O. A. *see* **Plastino, Angel Luis et al., (2005g:82001)**

Rubin, Jonathan E. A nonlocal eigenvalue problem for the stability of a traveling wave in a neuronal medium. (English summary) **2005d:34181**

— (*with* Troy, William C.) Sustained spatial patterns of activity in neuronal populations without recurrent excitation. (English summary) **2005h:45014**

— *see also* **Oşan, Remus et al., 2005a:92005** *and* **Drover, Jonathan et al., 2005h:34095**

Rulkov, Nikolai F. *see* **Shil'nikov, A. L., 2005m:37213**

Rybka, Piotr *see* **Merz, W., 2005d:35281**

Sakai, Hiroyuki[2] *see* **Oshima, Marie et al.**

Sarti, Alessandro *see* **Citti, Giovanna et al., 2005c:49029**

Schneider, Gisbert *see* **Paetz, Jürgen**

Schonbek, Maria *see* **Kostova, Tanya et al., 2005d:34086**

Schreiber, Thomas[2] *see* **Kaiser, Andreas, 2005b:37196**

Schuss, Zeev *see* **Holcman, D., 2005i:82055**

Senneret, M. *see* **Courbage, M. et al., 2005g:37169**

Sharma, Kapil Kumar *see* **Kadalbajoo, Mohan K., 2005m:65147**

Shih, Ming-Hsiang (*with* Momoniat, Ebrahim; Mahomed, F. M.) Approximate conditional symmetries and approximate solutions of the perturbed Fitzhugh-Nagumo equation. (English summary) **2005i:35132**

Shil'nikov, A. L. (*with* Rulkov, Nikolai F.) Origin of chaos in a two-dimensional map modeling spiking-bursting neural activity. (English summary) **2005m:37213**

Shinomoto, Shigeru *see* **Koyama, Shinsuke, 2005c:60057**

Skantzos, N. S. *see* **Pérez Castillo, I., 2005d:82101**

Song, Qian Kun (*with* Cao, Jin De) Global exponential stability and existence of periodic solutions in BAM networks with delays and reaction-diffusion terms. (English summary)

Spencer, Joel H. *see* **Mitzenmacher, Michael et al., 2005c:60093**

Sterpu, Mihaela A double-zero with symmetry of order two bifurcation in the FitzHugh-Nagumo model. (English summary) **2005m:37115**

Su, Jianzhong *see* **Drover, Jonathan et al., 2005h:34095**

Tachtsidis, Ilias *see* **Banaji, Murad et al., 2005m:92012**

Tass, Peter A. Transmission of stimulus-locked responses in two coupled phase oscillators. (English summary) **2005f:34111**

Tonnelier, Arnaud *see* **Badel, Laurent, 2005j:37146**

Torii, Ryo *see* **Oshima, Marie et al.**

Troy, William C. *see* **Rubin, Jonathan E., 2005h:45014**

Tsuji, Shigeki (*with* Ueta, Tetsushi; Kawakami, Hiroshi; Aihara, Kazuyuki) A design method of bursting using two-parameter bifurcation diagrams in FitzHugh-Nagumo model. (English summary) **2005c:37173**

Tsymbalyuk, G. S. *see* **Bondarenko, Vladimir E. et al.**

Turner, R. E. L. Neural architecture and locomotion. (English summary)

Ueta, Tetsushi *see* **Tsuji, Shigeki et al., 2005c:37173**

Valerio, C. *see* **Buonocore, Aniello et al., 2005a:60124**

Varona, Pablo *see* **Afraimovich, Valentin S. et al., 2005a:37166**

Victor, Jonathan D. (*with* Knight, Bruce W.) Simultaneously band and space limited functions in two dimensions, and receptive fields of visual neurons. (English summary) **2005e:94037**

Wang, Lin[3] *see* **Guo, Shangjiang et al., 2005g:34189**

(Wang, Lipo) *see* **Neural information processing: research and development, 2005g:68143**

Wang, Quan Yi *see* **Xie, Huiqin, 2005g:34175**

Wei, Jun Jie (*with* Li, Michael Y.) Global existence of periodic solutions in a tri-neuron network model with delays. (English summary) **2005m:34172**

Wittfeld, Katharina *see* **Keller, Karsten, 2005b:37197**

Wu, Jian Hong *see* **Beamish, Dan et al., 2005i:92003**

Wu, Ying (*with* Xu, Jian-Xue; He, Daihai; Earn, David J. D.) Generalized synchronization induced by noise and parameter mismatching in Hindmarsh-Rose neurons. (English summary)

Xie, Huiqin (*with* Wang, Quan Yi) Exponential stability and periodic solution of hybrid bidirectional associative memory neural networks with discrete delays. (English summary) **2005g:34175**

Xu, Jian-Xue *see* **Wu, Ying et al.**

Zhang, Linghai Exponential stability of traveling pulse solutions of a singularly perturbed system of integral differential equations arising from excitatory neuronal networks. (English summary) **2005b:35012**

— Eigenvalue functions in excitatory-inhibitory neuronal networks. (English summary) **2005k:37204**

Zhigulin, Valentin P. *see* **Afraimovich, Valentin S. et al., 2005g:37168**

Zhou, Zhan *see* **Fu, Xiang-ling, 2005m:39024**

Zhu, Binhai Approximating 3D points with cylindrical segments. (English summary) (*see* **2005a:68012**)

Zhu, Huiyan (*with* Huang, Li Hong[1]; Dai, Binxiang) Convergence and periodicity of solutions for a neural network of two neurons. (English summary) **2005f:34201**

Żochowski, Michał *see* **Dzakpasu, Rhonda**

Items listed otherwise than by author

Alicante ★ Computational neuroscience. **2005j:92002**

Computational neuroscience ★ Computational neuroscience. **2005j:92002**

Handbook of brain theory and neural networks ★ The handbook of brain theory and neural networks. **2005m:68002**

Neural information processing: research and development ★ Neural information processing: research and development. **2005g:68143**

92C30 Physiology (general)

Adimy, Mostafa (*with* Crauste, Fabien; Pujo-Menjouet, Laurent) On the stability of a nonlinear maturity structured model of cellular proliferation. (English summary) **2005k:92020**

— (*with* Crauste, Fabien; Ruan, Shigui) Stability and Hopf bifurcation in a mathematical model of pluripotent stem cell dynamics. (English summary) **2005m:92009**

Aguirre, Jacobo (*with* Mosekilde, Erik; Fernández Sanjuán, Miguel Angel) Analysis of the noise-induced bursting-spiking transition in a pancreatic β-cell model. (English summary) **2005e:92013**

Aidoo, A. Y. Prototype acetylcholine channel geometry. (English summary)

Ataullakhanov, F. I. *see* **Lobanova, E. S. et al.**

Bayram, Mustafa Derivation of conservation relationships for catalytic cycles using MAPLE. (English summary) **2005f:92009**

Beaumont, Jacques *see* **Wang, Guan Jun, 2005b:92015**

Bélair, Jacques *see* **Mackey, Michael C. et al., (2005a:92001)**

Bell, Bradley M. *see* **Pillonetto, Gianluigi, 2005c:92011**

Bennett, Deborah Louise (*with* Gourley, Stephen A.) Periodic oscillations in a model of the glucose-insulin interaction with delay and periodic forcing. (English summary) **2005c:92008**

— (*with* Gourley, Stephen A.) Global stability in a model of the glucose-insulin interaction with time delay. (English summary) **2005b:92013**

Bennett, M. R. (*with* Farnell, L.; Gibson, W. G.) A quantitative description of the contraction of blood vessels following the release of noradrenaline from sympathetic

varicosities. (English summary)
Beuter, Anne (*with* Edwards, Roderick; Titcombe, Michèle S.) Data analysis and mathematical modeling of human tremor. (*see* **2005a:92001**)
— *see also* Mackey, Michael C., (2005a:92001)
Bica, Alexandru Lyapunov function for a bidimensional system-model in the glucose homeostasy and clinical interpretations. (English summary) **2005m:92010**
Buono, Pietro-Luciano (*with* Palacios, Antonio) A mathematical model of motorneuron dynamics in the heartbeat of the leech. (English summary) **2005c:92009**
Chopard, Bastien *see* **Hirabayashi, Miki et al., (2005c:00014)**
Christiansen, Edmund (*with* Garby, Lars; Sørensen, Thorkild I. A.) Quantitative analysis of the energy requirements for development of obesity. (English summary)
Comtois, Philippe (*with* Vinet, Alain) Stability and bifurcation in an integral-delay model of cardiac reentry including spatial coupling in repolarization. (English summary) **2005a:92013**
Courtemanche, Marc (*with* Vinet, Alain) Reentry in excitable media. (*see* **2005a:92001**)
Crauste, Fabien *see* **Adimy, Mostafa et al., 2005k:92020** *and* **2005m:92009**
Cytrynbaum, Eric N. Periodic stimulus and the single cardiac cell—getting more out of 1D maps. (English summary)
Delgado-Lezama, Rodolfo *see* **Santillán, Moisés et al., 2005a:92015**
Deuflhard, Peter (*with* Hochmuth, Reinhard) Multiscale analysis of thermoregulation in the human microvascular system. (English summary) **2005a:92014**
Edwards, Roderick *see* **Beuter, Anne et al., (2005a:92001)**
Enciso, Germán (*with* Sontag, Eduardo D.) On the stability of a model of testosterone dynamics. (English summary) **2005g:92010**
Farnell, L. *see* **Bennett, M. R. et al.**
Fernández Sanjuán, Miguel Angel *see* **Aguirre, Jacobo et al., 2005e:92013**
Garby, Lars *see* **Christiansen, Edmund et al.**
Gaver, D. P., III *see* **Jacob, A. M.**
Gibson, W. G. *see* **Bennett, M. R. et al.**
Glass, Leon Resetting and entraining biological rhythms. (*see* **2005a:92001**)
Good, D. J. *see* **Kevrekidis, Panayotis G. et al.**
Gourley, Stephen A. *see* **Bennett, Deborah Louise, 2005b:92013** *and* **2005c:92008**
Guevara, Michael R. Dynamics of excitable cells. (*see* **2005a:92001**)
Han, Li Tao *see* **Lou, Jie et al., 2005c:92010**
Haurie, Caroline *see* **Mackey, Michael C. et al., (2005a:92001)**
Hernández-Pérez, Ricardo *see* **Santillán, Moisés et al., 2005a:92015**
Hirabayashi, Miki (*with* Ohta, Makoto; Rüfenacht, Daniel A.; Chopard, Bastien) Lattice Boltzmann analysis of the flow reduction mechanism in stented cerebral aneurysms for the endovascular treatment. (English summary) (*see* **2005c:00014**)
Hochmuth, Reinhard *see* **Deuflhard, Peter, 2005a:92014**
Jacob, A. M. (*with* Gaver, D. P., III) An investigation of the influence of cell topography on epithelial mechanical stresses during pulmonary airway reopening. (English summary)
Kaźmierczak, Bogdan *see* **Piechór, Kazimierz, (2005d:92001)**
Kevrekidis, Panayotis G. (*with* Whitaker, N.; Good, D. J.) Towards a reduced model for angiogenesis: a hybrid approach. (English summary)
Khidirova, M. B. Modeling mechanisms for cardiac tissue excitation. (Russian. English and Russian summaries)
Kim, Michael B. *see* **King, Michael R. et al.**
King, Michael R. (*with* Ruscio, Aimee D.; Kim, Michael B.; Sarelius, Ingrid H.) Interactions between stably rolling leukocytes in vivo. (English summary)
Kirk, Vivien *see* **Simpson, David John Warwick et al., 2005h:92009**
(Larsen, Jesper K.) *see* **Applied mathematical models in human physiology, 2005f:92010**
Lines, Glenn Terje *see* **Sundnes, Joakim et al., 2005m:92011**
Lobanova, E. S. (*with* Shnol, E. E.; Ataullakhanov, F. I.) Complex dynamics of the formation of spatially localized standing structures in the vicinity of saddle-node bifurcations of waves in the reaction-diffusion model of blood clotting. (English summary)
Lopes, Sergio R. *see* **dos Santos, Angela M. et al., 2005d:92007**
Lou, Jie (*with* Ma, Zhi En; Shao, Yiming; Han, Li Tao) Modelling the interaction of T-cells, antigen presenting cells, and HIV-1 in vivo. (English summary) **2005c:92010**
Ma, Zhi En *see* **Lou, Jie et al., 2005c:92010**
Mackey, Michael C. (*with* Beuter, Anne) Theoretical approaches in physiology. (*see* **2005a:92001**)
— (*with* Haurie, Caroline; Bélair, Jacques) Cell replication and control. (*see* **2005a:92001**)
Melkikh, Alexey V. (*with* Seleznev, Vladimir D.) Models of active transport of ions in biomembranes of various types of cells. (English summary)
Milton, John G. Pupil light reflex: delays and oscillations. (*see* **2005a:92001**)
Mosekilde, Erik *see* **Aguirre, Jacobo et al., 2005e:92013**
Ohta, Makoto *see* **Hirabayashi, Miki et al., (2005c:00014)**
(Olufsen, Mette S.) *see* **Applied mathematical models in human physiology, 2005f:92010**
Osaka, Motohisa (*with* Watanabe, Mari A.) A modified Chua circuit simulates $1/f$-like fluctuation of the heartbeat intervals. (English summary)
(Ottesen, Johnny T.) *see* **Applied mathematical models in human physiology, 2005f:92010**
Palacios, Antonio *see* **Buono, Pietro-Luciano, 2005c:92009**
Piechór, Kazimierz (*with* Kaźmierczak, Bogdan) Heteroclinic solutions for a model of skin morphogenesis. (English summary) (*see* **2005d:92001**)
Pillonetto, Gianluigi (*with* Bell, Bradley M.) Deconvolution of non-stationary physical signals: a smooth variance model for insulin secretion rate. (English summary) **2005c:92011**
Pujo-Menjouet, Laurent *see* **Adimy, Mostafa et al., 2005k:92020**
Ren, Hongshan Stability analysis of a simplified model for the control of testosterone secretion. (English summary) **2005b:92014**
Ruan, Shigui *see* **Adimy, Mostafa et al., 2005m:92009**
Rüfenacht, Daniel A. *see* **Hirabayashi, Miki et al., (2005c:00014)**
Ruscio, Aimee D. *see* **King, Michael R. et al.**
Saïdalieva, M. Modeling regulatory mechanisms of cellular communities of multicellular organisms. (Russian. English and Russian summaries)
Salathe, Eric P. A mathematical method for determining oxygen distribution in skeletal muscle with multiple capillaries and axial diffusion. (English summary)
Santillán, Moisés (*with* Hernández-Pérez, Ricardo; Delgado-Lezama, Rodolfo) A numeric study of the noise-induced tremor in a mathematical model of the stretch reflex. (English summary) **2005a:92015**
dos Santos, Angela M. (*with* Lopes, Sergio R.; Viana, Ricardo L.) Rhythm synchronization and chaotic modulation of coupled Van der Pol oscillators in a model for the heartbeat. (English summary) **2005d:92007**
Sarelius, Ingrid H. *see* **King, Michael R. et al.**
Seleznev, Vladimir D. *see* **Melkikh, Alexey V.**
Shao, Yiming *see* **Lou, Jie et al., 2005c:92010**
Shnol, E. E. *see* **Lobanova, E. S. et al.**
Shuttleworth, T. J. *see* **Tsaneva-Atanasova, K. et al., 2005i:92005**
Simon, Hans-Uwe *see* **Stucki, Jörg W.**
Simpson, David John Warwick (*with* Kirk, Vivien; Sneyd, James) Complex oscillations and waves of calcium in pancreatic acinar cells. (English summary) **2005h:92009**
Sneyd, James *see* **Simpson, David John Warwick et al., 2005h:92009** *and* **Tsaneva-Atanasova, K. et al., 2005i:92005**
Sontag, Eduardo D. *see* **Enciso, Germán, 2005g:92010**
Sørensen, Thorkild I. A. *see* **Christiansen, Edmund et al.**
Stucki, Jörg W. (*with* Simon, Hans-Uwe) Mathematical modeling of the regulation of caspase-3 activation and degradation. (English summary)
Sundnes, Joakim (*with* Lines, Glenn Terje; Tveito, Aslak) An operator splitting method for solving the bidomain equations coupled to a volume conductor model for the torso. (English summary) **2005m:92011**
Szczerba, Dominik (*with* Székely, Gábor) Computational model of flow-tissue interactions in intussusceptive angiogenesis. (English summary)
Székely, Gábor *see* **Szczerba, Dominik**
Thompson, Jill L. *see* **Tsaneva-Atanasova, K. et al., 2005i:92005**
Titcombe, Michèle S. *see* **Beuter, Anne et al., (2005a:92001)**
Tsaneva-Atanasova, K. (*with* Shuttleworth, T. J.; Yule, D. I.; Thompson, Jill L.; Sneyd, James) Calcium oscillations and membrane transport: the importance of two time scales. (English summary) **2005i:92005**
Turner, R. E. L. Neural architecture and locomotion. (English summary)
Tveito, Aslak *see* **Sundnes, Joakim et al., 2005m:92011**
Viana, Ricardo L. *see* **dos Santos, Angela M. et al., 2005d:92007**
Vinet, Alain *see* **Comtois, Philippe, 2005a:92013** *and* **Courtemanche, Marc, (2005a:92001)**
Wang, Guan Jun (*with* Beaumont, Jacques) Parameter estimation of the Hodgkin-Huxley gating model: an inversion procedure. (English summary) **2005b:92015**
Watanabe, Mari A. *see* **Osaka, Motohisa**
Whitaker, N. *see* **Kevrekidis, Panayotis G. et al.**
Yule, D. I. *see* **Tsaneva-Atanasova, K. et al., 2005i:92005**

Items listed otherwise than by author

Applied mathematical models in human physiology ★ Applied mathematical models in human physiology. **2005f:92010**

Items with secondary classifications in 92C30

Adimy, Mostafa (*with* Crauste, Fabien) Existence, positivity and stability for a nonlinear model of cellular proliferation. (English summary)
Alonso Muñoz, Sergio (*with* Kähler, Ralf; Mikhaĭlov, A. S.; Sagués, F.) Expanding scroll rings and negative tension turbulence in a model of excitable media. (English summary)
Alvarez-Vasquez, Fernando *see* **Voit, Eberhard O. et al.**
Bandrivskyy, A. (*with* Luchinsky, D. G.; McClintock, P. V. E.; Smelyanskiy, V. N.; Stefanovska, A.) Inference of systems with delay and applications to cardiovascular dynamics. (English summary)
Banks, H. T. (*with* Pinter, Gabriella A.) A probabilistic multiscale approach to hysteresis in shear wave propagation in biotissue. (English summary) **2005k:74058**
Bass, Ludvik *see* **Munk, Ole Lajord et al.**
Bonilla, Luis L. (*with* Kindelan, Manuel; Keller, Joseph B.) Periodically generated propagating pulses. (English summary) **2005m:34122**
Chen, Yu Ming[1] (*with* Huang, Li Hong[1]) Existence and global attractivity of a positive periodic solution of a delayed periodic respiration model. (English summary) **2005m:34159**
Crauste, Fabien *see* **Adimy, Mostafa**
Demiray, Hilmi Modulation of nonlinear waves in a fluid-filled elastic tube with stenosis. (English summary) **2005g:74042**
Fu, Yi Ping Periodic solution of a blood coagulation system. (Chinese. English and Chinese summaries) **2005j:35089**
Gargano, Michael L. (*with* Quintas, Louis V.; Wahl, Eric M.) Angiogenesis as a random graph process. (English summary)
Gobbert, Matthias K. *see* **Hanhart, Alexander L. et al., 2005h:65164**
Guevara, Michael R. Bifurcations involving fixed points and limit cycles in biological systems. (*see* **2005a:92001**)
Hadeler, Karl P. (*with* Kuttler, Christina; Nussbaum, Alexander K.) Cleaving proteins for the immune system. (English summary) **2005a:92017**
Hanhart, Alexander L. (*with* Gobbert, Matthias K.; Izu, Leighton T.) A memory-efficient finite element method for systems of reaction-diffusion equations with non-smooth forcing. (English summary) **2005h:65164**
Huang, Li Hong[1] *see* **Chen, Yu Ming[1], 2005m:34159**
Imran, Mudassar (*with* Jones, Don A.; Smith, Hal L.) Biofilms and the plasmid maintenance question. (English summary) **2005i:92019**
Izu, Leighton T. *see* **Hanhart, Alexander L. et al., 2005h:65164**
Jones, Don A. *see* **Imran, Mudassar et al., 2005i:92019**
Kähler, Ralf *see* **Alonso Muñoz, Sergio et al.**
Keiding, Susanne *see* **Munk, Ole Lajord et al.**
Keller, Joseph B. *see* **Bonilla, Luis L. et al., 2005m:34122**
Kindelan, Manuel *see* **Bonilla, Luis L. et al., 2005m:34122**
Klarbring, Anders (*with* Olsson, Tobias) On compatible strain with reference to biomechanics of soft tissues. (English summary) **2005m:74064**
Kuttler, Christina *see* **Hadeler, Karl P. et al., 2005a:92017**
Longtin, André Effects of noise on nonlinear dynamics. (*see* **2005a:92001**)
Luchinsky, D. G. *see* **Bandrivskyy, A. et al.**

McClintock, P. V. E. *see* **Bandrivskyy, A. et al.**
Mikhaĭlov, A. S. *see* **Alonso Muñoz, Sergio et al.**
Munk, Ole Lajord (*with* Keiding, Susanne; Bass, Ludvik) Capillaries within compartments: microvascular interpretation of dynamic positron emission tomography data. (English summary)
Namy, Patrick (*with* Ohayon, Jacques; Tracqui, Philippe) Critical conditions for pattern formation and in vitro tubulogenesis driven by cellular traction fields. (English summary)
Narang, Atul *see* **Pilyugin, Sergei S. et al., 2005j:92025**
Nussbaum, Alexander K. *see* **Hadeler, Karl P. et al., 2005a:92017**
Ohayon, Jacques *see* **Namy, Patrick et al.**
Olsson, Tobias *see* **Klarbring, Anders, 2005m:74064**
Oshima, Marie (*with* Sakai, Hiroyuki[2]; Torii, Ryo) Modelling of inflow boundary conditions for image-based simulation of cerebrovascular flow. (English summary)
Pandey, Rajni Kant (*with* Singh, Arvind K.) On the convergence of a finite difference method for a class of singular boundary value problems arising in physiology. (English summary) **2005a:65072**
Panfilov, A. V. *see* **Ten Tusscher, K. H. W. J., 2005i:35153**
Pilyugin, Sergei S. (*with* Reeves, Gregory T.; Narang, Atul) Predicting stability of mixed microbial cultures from single species experiments. II. Physiological model. (English summary) **2005j:92025**
Pinter, Gabriella A. *see* **Banks, H. T., 2005k:74058**
Quintas, Louis V. *see* **Gargano, Michael L. et al.**
Reeves, Gregory T. *see* **Pilyugin, Sergei S. et al., 2005j:92025**
Sagués, F. *see* **Alonso Muñoz, Sergio et al.**
Sakai, Hiroyuki[2] *see* **Oshima, Marie et al.**
Shardlow, Tony Numerical simulation of stochastic PDEs for excitable media. (English summary) **2005k:65017**
Shen, Qi Hong (*with* Wei, Jun Jie) Stability and bifurcation of a human respiratory system model with time delay. (Chinese. English and Chinese summaries)
Shorten, Paul R. (*with* Wall, David J. N.) Signal restoration after transmission through an advective and diffusive medium. (English summary) **2005g:35301**
Sims, Kellie J. *see* **Voit, Eberhard O. et al.**
Singh, Arvind K. *see* **Pandey, Rajni Kant, 2005a:65072**
Smelyanskiy, V. N. *see* **Bandrivskyy, A. et al.**
Smith, Hal L. *see* **Imran, Mudassar et al., 2005i:92019**
Stefanovska, A. *see* **Bandrivskyy, A. et al.**
Ten Tusscher, K. H. W. J. (*with* Panfilov, A. V.) Wave propagation in excitable media with randomly distributed obstacles. (English summary) **2005i:35153**
Torii, Ryo *see* **Oshima, Marie et al.**
Tracqui, Philippe *see* **Namy, Patrick et al.**
Voit, Eberhard O. (*with* Alvarez-Vasquez, Fernando; Sims, Kellie J.) Analysis of dynamic labeling data. (English summary)
Wahl, Eric M. *see* **Gargano, Michael L. et al.**
Wall, David J. N. *see* **Shorten, Paul R., 2005g:35301**
Wang, Wen Global classical solutions to one-dimensional flow basic equations in artery blood vessel. (Chinese. English and Chinese summaries)
Wei, Jun Jie *see* **Shen, Qi Hong**

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Baigent, Stephen *see* **Banaji, Murad et al., 2005m:92012**
Banaji, Murad (*with* Tachtsidis, Ilias; Delpy, David; Baigent, Stephen) A physiological model of cerebral blood flow control. (English summary) **2005m:92012**
Barthès-Biesel, D. Flow-induced capsule deformation. (English summary) (*see* **2005b:92016**)
Bica, Alexandru A mathematical model for the study of glycaemic homeostasy. (English summary) **2005h:92010**
Borhan, A. (*with* Gupta, Nivedita Ranbir) Capsule motion and deformation in tube and channel flow. (English summary) (*see* **2005b:92016**)
Damiano, Edward R. (*with* Stace, Thomas M.) Flow and deformation of the capillary glycocalyx in the wake of a leukocyte. (English summary)
Delpy, David *see* **Banaji, Murad et al., 2005m:92012**
Ding, Guanghong *see* **Yao, Wei, (2005d:35008)**
El-Shahed, Mostafa Blood flow in a capillary with permeable wall. (English summary) **2005e:92014**
Epstein, Marcelo *see* **Nakhaie Jazar, Gholamreza et al.**
Fu, Bingmei M. *see* **Sugihara-Seki, Masako**
Fujioka, Hideki *see* **Wei, Hsien-Hung et al.**
Fukasaku, Kazuaki *see* **Yokoi, Kensuke et al.**
Grotberg, James B. *see* **Suresh, Vinod A.** *and* **Wei, Hsien-Hung et al.**
Gupta, Nivedita Ranbir *see* **Borhan, A., (2005b:92016)**
Hirschl, Ronald B. *see* **Wei, Hsien-Hung et al.**
Jain, Madhu *see* **Sharma, G. C. et al.**
Kislukhin, Victor V. Regulation of oxygen consumption by vasomotion. (English summary)
Kumar, A. *see* **Sharma, G. C. et al.**
Lavrenteva, O. M. *see* **Nir, A., (2005b:92016)**
Liu, Hao[3] *see* **N'Dri, N. et al., (2005b:92016)** *and* **Yokoi, Kensuke et al.**
Liu, Wing Kam *see* **Liu, Yaling et al., 2005h:92011**
Liu, Yaling (*with* Zhang, Lucy; Wang, Xiaodong; Liu, Wing Kam) Coupling of Navier-Stokes equations with protein molecular dynamics and its application to hemodynamics. (English summary) **2005h:92011**
Mahinfalah, Mohammad *see* **Nakhaie Jazar, Gholamreza et al.**
Mikelić, Andro (*with* Primicerio, Mario) Blood perfusion in muscles: from microscopic models to continuum approach via homogenization. (English summary) (*see* **2005c:00016**)
Nakhaie Jazar, Gholamreza (*with* Mahinfalah, Mohammad; Rastgaar Aagaah, M.; Epstein, Marcelo) On the solitary waves in arteries. (English summary)
N'Dri, N. (*with* Shyy, W.; Liu, Hao[3]; Tran-Son-Tay, R.) Multi-scale modeling spanning from cell surface receptors to blood flow in arteries. (*see* **2005b:92016**)
Nir, A. (*with* Lavrenteva, O. M.) Capsule dynamics and interfacial transport. (English summary) (*see* **2005b:92016**)
Ottesen, Johnny T. Symmetric compressions of a fluid filled torus of asymmetric elasticity generates mean flow of frequency dependent size and orientation. (English summary) (*see* **2005d:92001**)
(Pozrikidis, C.) *see* **Modeling and simulation of capsules and biological cells, 2005b:92016**
Pralhad, R. N. (*with* Schultz, David H.) Modeling of arterial stenosis and its applications to blood diseases. (English summary) **2005c:92012**
Primicerio, Mario *see* **Mikelić, Andro, (2005c:00016)**
Rastgaar Aagaah, M. *see* **Nakhaie Jazar, Gholamreza et al.**
Schultz, David H. *see* **Pralhad, R. N., 2005c:92012**
Secomb, T. W. Mechanics of red blood cells and blood flow in narrow tubes. (English summary) (*see* **2005b:92016**)
Sharma, G. C. (*with* Jain, Madhu; Kumar, A.) Performance modeling and analysis of blood flow in elastic arteries. (English summary)
Shyy, W. *see* **N'Dri, N. et al., (2005b:92016)**
Stace, Thomas M. *see* **Damiano, Edward R.**
Sugihara-Seki, Masako (*with* Fu, Bingmei M.) Blood flow and permeability in microvessels. (English summary)
Suresh, Vinod A. (*with* Grotberg, James B.) The effect of gravity on liquid plug propagation in a two-dimensional channel. (English summary)
Surovtsova, Irina Application of the one dimensional model for blood flow to the vascular prosthesis. (English summary) (*see* **2005d:92001**)
Tachtsidis, Ilias *see* **Banaji, Murad et al., 2005m:92012**
Tran-Son-Tay, R. *see* **N'Dri, N. et al., (2005b:92016)**
Vielle, B. Mathematical analysis of Mayer waves. (English summary) **2005m:92013**
Wang, Xiaodong *see* **Liu, Yaling et al., 2005h:92011**
Wei, Hsien-Hung (*with* Fujioka, Hideki; Hirschl, Ronald B.; Grotberg, James B.) A model of flow and surfactant transport in an oscillatory alveolus partially filled with liquid. (English summary)
Xiao, Feng[1] *see* **Yokoi, Kensuke et al.**
Yao, Wei (*with* Ding, Guanghong) A mathematical method to solve the inverse problem of a hemodynamics model. (English summary) (*see* **2005d:35008**)
Yokoi, Kensuke (*with* Xiao, Feng[1]; Liu, Hao[3]; Fukasaku, Kazuaki) Three-dimensional numerical simulation of flows with complex geometries in a regular Cartesian grid and its application to blood flow in cerebral artery with multiple aneurysms. (English summary)
Zhang, Lucy *see* **Liu, Yaling et al., 2005h:92011**

Items listed otherwise than by author

Modeling and simulation of capsules and biological cells ★ Modeling and simulation of capsules and biological cells. **2005b:92016**

Items with secondary classifications in 92C35

Antar, Nalan *see* **Bakırtaş, İlkay, 2005m:76206**
Arruda, Ellen M. *see* **Garikipati, Krishna et al., 2005a:74069**
Artoli, Abdel Monim M. (*with* Kandhai, D.; Hoefsloot, H. C. J.; Hoekstra, Alfons G.; Sloot, Peter M. A.) Lattice Boltzmann, a robust and accurate solver for interactive computational hemodynamics. (English summary) (*see* **2005c:00014**)
Asghar, Saleem *see* **Hayat, Tasawar et al., 2005g:74044**
Baaijens, Frank P. T. *see* **van de Vosse, F. N. et al., 2005b:76147**
Bakırtaş, İlkay (*with* Demiray, Hilmi) Amplitude modulation of nonlinear waves in a fluid-filled tapered elastic tube. (English summary) **2005b:74037**
— (*with* Antar, Nalan) Effect of stenosis on solitary waves in arteries. (English summary) **2005m:76206**
Bélair, Jacques *see* **Bernard, Samuel et al., 2005a:37167**
Bernard, Samuel (*with* Bélair, Jacques; Mackey, Michael C.) Oscillations in cyclical neutropenia: new evidence based on mathematical modeling. (English summary) **2005a:37167**
— (*with* Bélair, Jacques; Mackey, Michael C.) Erratum to: "Oscillations in cyclical neutropenia: new evidence based on mathematical modeling" [J. Theoret. Biol. **223** (2003), no. 3, 283–298; MR2069501 (2005a:37167)].
Bessems, D. *see* **van de Vosse, F. N. et al., 2005b:76147**
Bubenchikov, A. M. (*with* Firsov, D. K.; Kotovshchikova, M. A.) A viscous laminar flow in curved channels of complicated cross-section. (Russian. English and Russian summaries)
Calve, S. *see* **Garikipati, Krishna et al., 2005a:74069**
Čanić, Sunčica (*with* Lamponi, Daniele; Mikelić, Andro; Tambača, Josip) Self-consistent effective equations modeling blood flow in medium-to-large compliant arteries. (English summary) **2005m:76207**
Chakravarty, Santabrata (*with* Sarifuddin; Mandal, Prasanta Kumar) Unsteady flow of a two-layer blood stream past a tapered flexible artery under stenotic conditions. (English summary) **2005i:76133**
Clark, Marlyn Earl *see* **Ruan, Weihua et al., 2005c:35186**
Cortez, Ricardo (*with* Peskin, Charles S.; Stockie, John M.; Varela, Douglas) Parametric resonance in immersed elastic boundaries. (English summary) **2005i:74026**
Curcio, Anthony *see* **Ruan, Weihua et al., 2005c:35186**
Demiray, Hilmi *see* **Bakırtaş, İlkay, 2005b:74037**
Draney, Mary T. *see* **Taylor, Charles A., 2005a:76182**
Fayziyev, Afgan S. *see* **Tagi-Zade, Azad T., 2005c:37172**
Firsov, D. K. *see* **Bubenchikov, A. M. et al.**
Formaggia, Luca *see* **Quarteroni, Alfio, 2005f:76119**
Franke, Victoria E. *see* **Sherwin, Spencer J. et al., 2005b:76146**
Gaevoĭ, V. P. Analysis of a circulation model of a catalytic process in a boiling layer. (Russian. Russian summary) **2005m:35040**
Ganatos, Peter *see* **Han, Yuefeng et al.**
Garikipati, Krishna (*with* Arruda, Ellen M.; Grosh, Karl; Narayanan, Harish; Calve, S.) A continuum treatment of growth in biological tissue: the coupling of mass transport and mechanics. (English summary) **2005a:74069**
Grosh, Karl *see* **Garikipati, Krishna et al., 2005a:74069**
Grotberg, James B. (*with* Jensen, Oliver E.) Biofluid mechanics in flexible tubes. (English summary) **2005a:76180**

Gunther, T. W. M. *see* **van de Vosse, F. N. et al., 2005b:76147**
Hadeler, Karl P. (*with* Hillen, Thomas; Lutscher, Frithjof) The Langevin or Kramers approach to biological modeling. (English summary) **2005j:92007**
Han, Yuefeng (*with* Ganatos, Peter; Weinbaum, Sheldon) Transmission of steady and oscillatory fluid shear stress across epithelial and endothelial surface structures. (English summary)
de Hart, J. *see* **van de Vosse, F. N. et al., 2005b:76147**
Hayat, Tasawar (*with* Wang, Yongqi; Hutter, Kolumban; Asghar, Saleem; Siddiqui, Abdul Majeed) Peristaltic transport of an Oldroyd-B fluid in a planar channel. **2005g:74044**
Hazel, Andrew L. *see* **Heil, Matthias, 2005c:76095**
Heil, Matthias (*with* Hazel, Andrew L.) Mass transfer from a finite strip near an oscillating stagnation point—implications for atherogenesis. (English summary) **2005c:76095**
— *see also* **White, Joseph P., 2005k:74031**
Hillen, Thomas *see* **Hadeler, Karl P. et al., 2005j:92007**
Hoefsloot, H. C. J. *see* **Artoli, Abdel Monim M. et al., (2005c:00014)**
Hoekstra, Alfons G. *see* **Artoli, Abdel Monim M. et al., (2005c:00014)**
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Jensen, Oliver E. *see* **Grotberg, James B., 2005a:76180**
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Kotovshchikova, M. A. *see* **Bubenchikov, A. M. et al.**
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Lamponi, Daniele *see* **Čanić, Sunčica et al., 2005m:76207**
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Lutscher, Frithjof *see* **Hadeler, Karl P. et al., 2005j:92007**
Mackey, Michael C. *see* **Bernard, Samuel et al., 2005a:37167**
Mandal, Prasanta Kumar *see* **Chakravarty, Santabrata et al., 2005i:76133**
Mekheimer, Kh. S. Peristaltic flow of blood under effect of a magnetic field in a non-uniform channels. (English summary) **2005b:76145**
Mikelić, Andro *see* **Čanić, Sunčica et al., 2005m:76207**
Milišić, Vuk (*with* Quarteroni, Alfio) Analysis of lumped parameter models for blood flow simulations and their relation with 1D models. (English summary) **2005e:76095**
Mishra, Manoranjan (*with* Rao, Adabala Ramachandra) Peristaltic transport of a Newtonian fluid in an asymmetric channel. (English summary) **2005a:76181**
Nadim, Ali *see* **Olufsen, Mette S.**
Narayanan, Harish *see* **Garikipati, Krishna et al., 2005a:74069**
Nardinocchi, Paola (*with* Pontrelli, Giuseppe; Teresi, Luciano) A one-dimensional model for blood flow in prestressed vessels. (English summary) **2005i:76134**
van Oijen, C. H. G. A. *see* **van de Vosse, F. N. et al., 2005b:76147**
Olufsen, Mette S. (*with* Nadim, Ali) On deriving lumped models for blood flow and pressure in the systemic arteries. (English summary)
— *see also* **Applied mathematical models in human physiology, 2005f:92010**
(Ottesen, Johnny T.) *see* **Applied mathematical models in human physiology, 2005f:92010**
Parker, Kim H. *see* **Sherwin, Spencer J. et al., 2005b:76146**
Peiró, J. *see* **Sherwin, Spencer J. et al., 2005b:76146**
Peskin, Charles S. *see* **Cortez, Ricardo et al., 2005i:74026**
Pontrelli, Giuseppe *see* **Nardinocchi, Paola et al., 2005i:76134**
Pozrikidis, C. Shell theory for capsules and cells. (English summary) (*see* **2005b:92016**)
— Axisymmetric motion of a file of red blood cells through capillaries. (English summary) **2005k:76145**
Prokop, Vladimir (*with* Kozel, Karel) Numerical modeling of bypass flow. (English summary) (*see* **2005j:65003**)
Quarteroni, Alfio (*with* Formaggia, Luca) Mathematical modelling and numerical simulation of the cardiovascular system. **2005f:76119**
— *see also* **Milišić, Vuk, 2005e:76095**
Rao, Adabala Ramachandra *see* **Mishra, Manoranjan, 2005a:76181**
Ruan, Weihua (*with* Clark, Marlyn Earl; Zhao, Meide; Curcio, Anthony) A quasilinear hyperbolic system that models blood flow in a network. (English summary) **2005c:35186**
Sarifuddin *see* **Chakravarty, Santabrata et al., 2005i:76133**
Segal, August *see* **van de Vosse, F. N. et al., 2005b:76147**
Sherwin, Spencer J. (*with* Franke, Victoria E.; Peiró, J.; Parker, Kim H.) One-dimensional modelling of a vascular network in space-time variables. (English summary) **2005b:76146**
Siddiqui, Abdul Majeed *see* **Hayat, Tasawar et al., 2005g:74044**
Sloot, Peter M. A. *see* **Artoli, Abdel Monim M. et al., (2005c:00014)**
Stijnen, J. M. A. *see* **van de Vosse, F. N. et al., 2005b:76147**
Stockie, John M. *see* **Cortez, Ricardo et al., 2005i:74026**
Tagi-Zade, Azad T. (*with* Fayziyev, Afgan S.) Mathematical model of microcirculation of blood. (English summary) **2005c:37172**
Tambača, Josip *see* **Čanić, Sunčica et al., 2005m:76207**
Tang, Yun *see* **Zhou, Tianshou, 2005j:35128**
Taylor, Charles A. (*with* Draney, Mary T.) Experimental and computational methods in cardiovascular fluid mechanics. (English summary) **2005a:76182**
Teresi, Luciano *see* **Nardinocchi, Paola et al., 2005i:76134**
Varela, Douglas *see* **Cortez, Ricardo et al., 2005i:74026**
Veneziani, Alessandro (*with* Vergara, C.) Flow rate defective boundary conditions in haemodynamics simulations. (English summary) **2005j:76098**
Vergara, C. *see* **Veneziani, Alessandro, 2005j:76098**
van de Vosse, F. N. (*with* de Hart, J.; van Oijen, C. H. G. A.; Bessems, D.; Gunther, T. W. M.; Segal, August; Wolters, B. J. B. M.; Stijnen, J. M. A.; Baaijens, Frank P. T.) Finite-element-based computational methods for cardiovascular fluid-structure interaction. (English summary) **2005b:76147**
Wahl, Eric M. An introduction to a graph theory model of angiogenesis. (English summary)
Wang, Yongqi *see* **Hayat, Tasawar et al., 2005g:74044**
Weinbaum, Sheldon *see* **Han, Yuefeng et al.**
White, Joseph P. (*with* Heil, Matthias) Three-dimensional instabilities of liquid-lined elastic tubes: a thin-film fluid-structure interaction model. (English summary) **2005k:74031**
Wolters, B. J. B. M. *see* **van de Vosse, F. N. et al., 2005b:76147**
Xue, Ju Kui Head-on collision of the blood solitary waves. (English summary)
Zhao, Meide *see* **Ruan, Weihua et al., 2005c:35186**
Zhou, Tianshou (*with* Tang, Yun) Law of motion of the small amplitude scroll wave filament. (English summary) **2005j:35128**

Items listed otherwise than by author

Applied mathematical models in human physiology ★ Applied mathematical models in human physiology. **2005f:92010**

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Alarcón, T. (*with* Byrne, Helen M.; Maini, Philip K.) A mathematical model of the effects of hypoxia on the cell-cycle of normal and cancer cells. (English summary)
Arkin, Adam P. *see* **Wolf, Denise M. et al.**
Arkus, Natalie A mathematical model of cellular apoptosis and senescence through the dynamics of telomere loss. (English summary)
Bélair, Jacques (*with* Buono, Pietro-Luciano) Delay induced oscillations in autonomous drug delivery systems. (English summary)
Belyakov, O. V. *see* **Little, M. P. et al.**
van den Berg, Hugo A. (*with* Rand, David A.) Foreignness as a matter of degree: the relative immunogenicity of peptide/MHC ligands. (English summary)
Boys, Richard J. *see* **Gillespie, Colin S. et al.**
Buono, Pietro-Luciano *see* **Bélair, Jacques**
Byrne, Helen M. *see* **Alarcón, T. et al.**
Callard, Robin *see* **Yates, Andrew James et al.**
Carneiro, Jorge *see* **León, Kalet et al.**
Chao, Dennis L. (*with* Davenport, Miles P.; Forrest, Stephanie; Perelson, Alan S.) A stochastic model of cytotoxic T cell responses. (English summary)
Choi, Yung Sze (*with* Lee, Juliet; Lui, Roger) Traveling wave solutions for a one-dimensional crawling nematode sperm cell model. (English summary) **2005g:92011**
Civelekoglu-Scholey, G. (*with* Orr, A. Wayne; Novak, I.; Meister, J.-J.; Schwartz, M. A.; Mogilner, A.) Model of coupled transient changes of Rac, Rho, adhesions and stress fibers alignment in endothelial cells responding to shear stress. (English summary)
Davenport, Miles P. *see* **Chao, Dennis L. et al.**
Dolak, Yasmin (*with* Schmeiser, Christian) A kinetic theory approach for resolving the chemotactic wave paradox. (English summary) (*see* **2005d:92001**)
Ekiz, Cesur *see* **Erdem, Rıza**
Erdem, Rıza (*with* Ekiz, Cesur) A noninteractive two-state model of cell membrane ion channels using the pair approximation. (English summary)
Faro, Jose *see* **León, Kalet et al.**
Filipe, J. A. N. *see* **Little, M. P. et al.**
Folkard, M. *see* **Little, M. P. et al.**
Forrest, Stephanie *see* **Chao, Dennis L. et al.**
Frank, Steven A. *see* **Michor, Franziska et al.**
Gillespie, Colin S. (*with* Proctor, Carole J.; Boys, Richard J.; Shanley, Daryl P.; Wilkinson, Darren J.; Kirkwood, Thomas B. L.) A mathematical model of ageing in yeast. (English summary)
Henson, Michael A. Modeling the synchronization of yeast respiratory oscillations. (English summary)
Hyrien, Ollivier (*with* Mayer-Pröschel, Margot; Noble, Mark; Yakovlev, Andrei Yur'evich) Estimating the life-span of oligodendrocytes from clonal data on their development in cell culture. (English summary)
Iwasa, Yoh *see* **Michor, Franziska et al.**
Jacobson, K. *see* **Rubinstein, Boris et al., 2005j:92013**
Kirkwood, Thomas B. L. *see* **Gillespie, Colin S. et al.**
Langford, Lauren A. *see* **Obeyesekere, Mandri N. et al., 2005g:92012**
Lee, Juliet *see* **Choi, Yung Sze et al., 2005g:92011**
León, Kalet (*with* Faro, Jose; Carneiro, Jorge) A general mathematical framework to model generation structure in a population of asynchronously dividing cells. (English summary)
Lindahl, Paul A. *see* **Morgan, Jeffrey J. et al.**
Little, M. P. (*with* Filipe, J. A. N.; Prise, K. M.; Folkard, M.; Belyakov, O. V.) A model for radiation-induced bystander effects, with allowance for spatial position and the effects of cell turnover. (English summary)
Lui, Roger *see* **Choi, Yung Sze et al., 2005g:92011**
Maini, Philip K. *see* **Alarcón, T. et al.**
May, Robert M. *see* **Michor, Franziska et al.**
Mayer-Pröschel, Margot *see* **Hyrien, Ollivier et al.**
Meister, J.-J. *see* **Civelekoglu-Scholey, G. et al.**
Michor, Franziska (*with* Frank, Steven A.; May, Robert M.; Iwasa, Yoh; Nowak, Martin A.) Somatic selection for and against cancer. (English summary)
Miller, John Howard (*with* Zheng, Fang) Large-scale simulations of cellular signaling processes. (English summary)
Mogilner, A. *see* **Rubinstein, Boris et al., 2005j:92013** *and* **Civelekoglu-Scholey, G. et al.**
Morgan, Jeffrey J. (*with* Surovtsev, Ivan V.; Lindahl, Paul A.) A framework for whole-cell mathematical modeling. (English summary)
Nikolov, Svetoslav An alternative bifurcation analysis of the Rose-Hindmarsh model. (English summary)
Nikolova, Elena Vancheva *see* **Petrov, Valko Georguiev et al.**
Noble, Mark *see* **Hyrien, Ollivier et al.**
Novak, I. *see* **Civelekoglu-Scholey, G. et al.**
Nowak, Martin A. *see* **Michor, Franziska et al.**
Obeyesekere, Mandri N. (*with* Tecarro, Edwin S.; Langford, Lauren A.) A hybrid cell cycle system: model of telomerase activity. (English summary) **2005g:92012**
Orr, A. Wayne *see* **Civelekoglu-Scholey, G. et al.**
Owen, Markus R. *see* **Webb, Steven D., 2005g:92013**
Perelson, Alan S. *see* **Chao, Dennis L. et al.**
Petrov, Valko Georguiev (*with* Nikolova, Elena Vancheva; Timmer, Jens) Dynamical analysis of cell function models. A review. (English summary)
Prise, K. M. *see* **Little, M. P. et al.**

Proctor, Carole J. *see* **Gillespie, Colin S. et al.**
Rand, David A. *see* **van den Berg, Hugo A.**
Rubinstein, Boris (*with* Jacobson, K.; Mogilner, A.) Multiscale two-dimensional modeling of a motile simple-shaped cell. (English summary) **2005j:92013**
Schmeiser, Christian *see* **Dolak, Yasmin**, (**2005d:92001**)
Schwartz, M. A. *see* **Civelekoglu-Scholey, G. et al.**
Shanley, Daryl P. *see* **Gillespie, Colin S. et al.**
Stark, Jaroslav *see* **Yates, Andrew James et al.**
Steuer, Ralf Effects of stochasticity in models of the cell cycle: from quantized cycle times to noise-induced oscillations. (English summary)
Surovtsev, Ivan V. *see* **Morgan, Jeffrey J. et al.**
Tecarro, Edwin S. *see* **Obeyesekere, Mandri N. et al., 2005g:92012**
Timmer, Jens *see* **Petrov, Valko Georguiev et al.**
Turner, Stephen Using cell potential energy to model the dynamics of adhesive biological cells. (English summary)
Vazirani, Vijay V. *see* **Wolf, Denise M. et al.**
de Vries, Gerda The effect of coupling, noise, and heterogeneity on bursting oscillations. (English summary) **2005k:92021**
Webb, Steven D. (*with* Owen, Markus R.) Oscillations and patterns in spatially discrete models for developmental intercelluar signalling. (English summary) **2005g:92013**
Wilkinson, Darren J. *see* **Gillespie, Colin S. et al.**
Wolf, Denise M. (*with* Vazirani, Vijay V.; Arkin, Adam P.) Diversity in times of adversity: probabilistic strategies in microbial survival games. (English summary)
— (*with* Vazirani, Vijay V.; Arkin, Adam P.) A microbial modified prisoner's dilemma game: how frequency-dependent selection can lead to random phase variation. (English summary)
Yakovlev, Andrei Yur'evich *see* **Hyrien, Ollivier et al.**
Yates, Andrew James (*with* Callard, Robin; Stark, Jaroslav) Combining cytokine signalling with T-bet and GATA-3 regulation in Th1 and Th2 differentiation: a model for cellular decision-making. (English summary)
Zheng, Fang *see* **Miller, John Howard**

Items with secondary classifications in 92C37

Ahmed, Rafi *see* **Pilyugin, Sergei S. et al.**
Ambrosi, D. (*with* Mollica, F.) The role of stress in the growth of a multicell spheroid. (English summary) **2005a:92006**
Andrec, Michael (*with* Kholodenko, Boris N.; Levy, Ronald M.; Sontag, Eduardo D.) Inference of signaling and gene regulatory networks by steady-state perturbation experiments: structure and accuracy. (English summary)
Andreucci, Daniele (*with* Bisegna, Paolo; DiBenedetto, Emmanuele) Some mathematical problems in visual transduction. (English summary) **2005k:35012**
Angulo, Oscar (*with* López-Marcos, Juan Carlos) A numerical scheme for a size-structured cell population model. (English summary) (*see* **2005d:92001**)
Antia, Rustom *see* **Pilyugin, Sergei S. et al.**
Bakker, Barbara M. *see* **Reijenga, Karin A. et al.**
Baranyi, József *see* **Kutalik, Zoltán et al.**
Barthès-Biesel, D. Flow-induced capsule deformation. (English summary) (*see* **2005b:92016**)
Belykh, Igor V. (*with* Belykh, Vladimir N.; Hasler, Martin) Blinking model and synchronization in small-world networks with a time-varying coupling. (English summary) **2005h:37208**
Belykh, Vladimir N. *see* **Belykh, Igor V. et al., 2005h:37208**
Berry, H. *see* **Caron-Lormier, G.**
Bertuzzi, Alessandro (*with* Fasano, Antonio; Gandolfi, Alberto[1]) A free boundary problem with unilateral constraints describing the evolution of a tumor cord under the influence of cell killing agents. (English summary) **2005m:35315**
Bisegna, Paolo *see* **Andreucci, Daniele et al., 2005k:35012**
Blom, J. G. (*with* Peletier, Mark A.) A continuum model of lipid bilayers. (English summary) **2005j:74041**
Borhan, A. (*with* Gupta, Nivedita Ranbir) Capsule motion and deformation in tube and channel flow. (English summary) (*see* **2005b:92016**)
Boucontet, Laurent *see* **Sepúlveda, Nuno et al.**
Carneiro, Jorge *see* **Sepúlveda, Nuno et al.**
Caron-Lormier, G. (*with* Berry, H.) Amplification and oscillations in the FAK/Src kinase system during integrin signaling. (English summary)
Coward, Charles W. *see* **Tözeren, Aydin et al.**
(Deutsch, Andreas) *see* **Function and regulation of cellular systems, 2005b:92001**
DiBenedetto, Emmanuele *see* **Andreucci, Daniele et al., 2005k:35012**
Eley, R. R. *see* **Schwartz, L. W. et al., 2005i:76010**
Elser, James J. *see* **Kuang, Yang et al., 2005b:92020**
Elston, Timothy C. *see* **Goedecke, D. Michael**
(Falcke, Martin) *see* **Function and regulation of cellular systems, 2005b:92001**
Fasano, Antonio *see* **Bertuzzi, Alessandro et al., 2005m:35315**
Gandolfi, Alberto[1] *see* **Bertuzzi, Alessandro et al., 2005m:35315**
Ganusov, V. V. *see* **Pilyugin, Sergei S. et al.**
Goedecke, D. Michael (*with* Elston, Timothy C.) A model for the oscillatory motion of single dynein molecules. (English summary)
Gouzé, Jean-Luc *see* **Lemesle, Valérie**, (**2005d:92001**)
Gupta, Nivedita Ranbir *see* **Borhan, A.**, (**2005b:92016**)
Hasler, Martin *see* **Belykh, Igor V. et al., 2005h:37208**
(Howard, Jonathon) *see* **Function and regulation of cellular systems, 2005b:92001**
Jeribi, Aref (*with* Megdiche, Hatem; Moalla, Nedra) On a transport operator arising in growing cell populations. II. Cauchy problem. (English summary)
Keener, James P. A model for length control of flagellar hooks of *Salmonella typhimurium*. (English summary)
Kholodenko, Boris N. *see* **Andrec, Michael et al.**
Kooi, Bob W. *see* **Reijenga, Karin A. et al.**
Kuang, Yang (*with* Nagy, John D.; Elser, James J.) Biological stoichiometry of tumor dynamics: mathematical models and analysis. (English summary) **2005b:92020**
Kutalik, Zoltán (*with* Razaz, Moe; Baranyi, József) Connection between stochastic and deterministic modelling of microbial growth. (English summary)
Lavrenteva, O. M. *see* **Nir, A.**, (**2005b:92016**)
Lemesle, Valérie (*with* Gouzé, Jean-Luc) Structured cell growth models in a chemostat. (English summary) (*see* **2005d:92001**)
Levy, Ronald M. *see* **Andrec, Michael et al.**
Lindsay, K. A. (*with* Rosenberg, J. R.; Tucker, Gayle) A note on the discrepancy between the predicted and observed speed of the propagated action potential in the squid giant axon. (English summary)
Liu, Hao[3] *see* **N'Dri, N. et al.**, (**2005b:92016**)
López-Marcos, Juan Carlos *see* **Angulo, Oscar**, (**2005d:92001**)
Martsenyuk, Vasil' P. *see* **Nakonechnyĭ, A. G., 2005k:93020**
Megdiche, Hatem *see* **Jeribi, Aref et al.**
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Mollica, F. *see* **Ambrosi, D., 2005a:92006**
Murali-Krishna, Kaja *see* **Pilyugin, Sergei S. et al.**
Nagy, John D. *see* **Kuang, Yang et al., 2005b:92020**
Nakonechnyĭ, A. G. (*with* Martsenyuk, Vasil' P.) Controllability problems for differential equations of Gompertz dynamics. (Russian. English and Ukrainian summaries) **2005k:93020**
Namy, Patrick (*with* Ohayon, Jacques; Tracqui, Philippe) Critical conditions for pattern formation and in vitro tubulogenesis driven by cellular traction fields. (English summary)
Narang, Atul *see* **Pilyugin, Sergei S. et al., 2005j:92024** *and* **2005j:92025**
N'Dri, N. (*with* Shyy, W.; Liu, Hao[3]; Tran-Son-Tay, R.) Multi-scale modeling spanning from cell surface receptors to blood flow in arteries. (*see* **2005b:92016**)
Nir, A. (*with* Lavrenteva, O. M.) Capsule dynamics and interfacial transport. (English summary) (*see* **2005b:92016**)
Novák, Béla (*with* Tyson, John J.) A model for restriction point control of the mammalian cell cycle. (English summary)
Ohayon, Jacques *see* **Namy, Patrick et al.**
Owen, Markus R. *see* **Webb, Steven D.**
Peletier, Mark A. *see* **Blom, J. G., 2005j:74041**
Pereira, Pablo *see* **Sepúlveda, Nuno et al.**
Petushi, Sokol P. *see* **Tözeren, Aydin et al.**
Pilyugin, Sergei S. (*with* Ganusov, V. V.; Murali-Krishna, Kaja; Ahmed, Rafi; Antia, Rustom) The rescaling method for quantifying the turnover of cell populations. (English summary)
— (*with* Reeves, Gregory T.; Narang, Atul) Predicting stability of mixed microbial cultures from single species experiments. I. Phenomenological model. (English summary) **2005j:92024**
— (*with* Reeves, Gregory T.; Narang, Atul) Predicting stability of mixed microbial cultures from single species experiments. II. Physiological model. (English summary) **2005j:92025**
Pozrikidis, C. Shell theory for capsules and cells. (English summary) (*see* **2005b:92016**)
— *see also* **Modeling and simulation of capsules and biological cells, 2005b:92016**
Princen, H. M. *see* **Schwartz, L. W. et al., 2005i:76010**
Razaz, Moe *see* **Kutalik, Zoltán et al.**
Reeves, Gregory T. *see* **Pilyugin, Sergei S. et al., 2005j:92024** *and* **2005j:92025**
Reijenga, Karin A. (*with* van Megen, Yvonne M. G. A.; Kooi, Bob W.; Bakker, Barbara M.; Snoep, Jacky L.; van Verseveld, Henk W.; Westerhoff, Hans V.) Yeast glycolytic oscillations that are not controlled by a single oscillophore: a new definition of oscillophore strength. (English summary)
Rosenberg, J. R. *see* **Lindsay, K. A. et al.**
Roy, R. V. *see* **Schwartz, L. W. et al., 2005i:76010**
Schwartz, L. W. (*with* Roy, R. V.; Eley, R. R.; Princen, H. M.) Surfactant-driven motion and splitting of droplets on a substrate. (English summary) **2005i:76010**
Secomb, T. W. Mechanics of red blood cells and blood flow in narrow tubes. (English summary) (*see* **2005b:92016**)
Sepúlveda, Nuno (*with* Boucontet, Laurent; Pereira, Pablo; Carneiro, Jorge) Stochastic modeling of T cell receptor γ gene rearrangement. (English summary)
Shyy, W. *see* **N'Dri, N. et al.**, (**2005b:92016**)
Snoep, Jacky L. *see* **Reijenga, Karin A. et al.**
Sontag, Eduardo D. *see* **Andrec, Michael et al.**
Tözeren, Aydin (*with* Coward, Charles W.; Petushi, Sokol P.) Origins and evolution of cell phenotypes in breast tumors. (English summary)
Tracqui, Philippe *see* **Namy, Patrick et al.**
Tran-Son-Tay, R. *see* **N'Dri, N. et al.**, (**2005b:92016**)
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Tyson, John J. *see* **Novák, Béla**
van Verseveld, Henk W. *see* **Reijenga, Karin A. et al.**
Webb, Steven D. (*with* Owen, Markus R.) Intra-membrane ligand diffusion and cell shape modulate juxtacrine patterning. (English summary)
Westerhoff, Hans V. *see* **Reijenga, Karin A. et al.**
(Zimmermann, Walter Josef) *see* **Function and regulation of cellular systems, 2005b:92001**

Items listed otherwise than by author

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Modeling and simulation of capsules and biological cells ★ Modeling and simulation of capsules and biological cells. **2005b:92016**

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Alvarez-Vasquez, Fernando *see* **Voit, Eberhard O. et al.**
Andonov, Rumen (*with* Balev, Stefan; Yanev, Nikolaĭ I.) Protein threading: from mathematical models to parallel implementations. (English summary) **2005g:92014**
de Angelis, Daniela *see* **Gilks, Walter R. et al.**
Anguige, K. (*with* King, John Robert; Ward, John Peter; Williams, Paul) Mathematical modelling of therapies targeted at bacterial quorum sensing. (English summary) **2005k:92022**

Audit, Benjamin *see* **Gilks, Walter R. et al.**
Bader, Brett W. *see* **Eskow, Elizabeth et al.**
Bakker, Barbara M. *see* **Reijenga, Karin A. et al.**
Balaeff, Alexander *see* **Villa, Elizabeth et al., 2005h:92012**
Baldari, C. T. *see* **Curti, M. et al., 2005e:92015**
Balev, Stefan *see* **Andonov, Rumen et al., 2005g:92014**
Barbi, Maria (*with* Mozziconacci, Julien; Victor, Jean-Marc) How the chromatin fiber deals with topological constraints. (English summary)
Berry, H. *see* **Caron-Lormier, G.**
Böckenhauer, Hans-Joachim (*with* Bongartz, Dirk) Protein folding in the HP model on grid lattices with diagonals (extended abstract). (English summary) (*see* **2005m:68011**)
Bockmayr, Alexander *see* **Eveillard, Damien et al., 2005e:92016**
Bongartz, Dirk *see* **Böckenhauer, Hans-Joachim, (2005m:68011)**
Boucontet, Laurent *see* **Sepúlveda, Nuno et al.**
Branlant, Christiane *see* **Eveillard, Damien et al., 2005e:92016**
Brizhik, L. (*with* Eremko, Aleksandr Aleksandrovich; Piette, B. M. A. G.; Zakrzewski, Wojciech J.) Solitons in α-helical proteins. (English summary) **2005k:92023**
Brown, Jonathan Andrew *see* **Tuszyński, Jacek A. et al.**
Broyde, Suse *see* **Zhang, Qing[5] et al.**
Buonocore, Aniello (*with* Di Crescenzo, Antonio; Martinucci, Barbara) A stochastic model for the rising phase of myosin head displacements along actin filaments. (English summary) (*see* **2005d:92001**)
Byrd, Richard H. *see* **Eskow, Elizabeth et al.**
Cardelli, Luca *see* **Regev, Aviv et al., 2005e:92018**
Carneiro, Jorge *see* **León, Kalet et al.** *and* **Sepúlveda, Nuno et al.**
Caron-Lormier, G. (*with* Berry, H.) Amplification and oscillations in the FAK/Src kinase system during integrin signaling. (English summary)
Carpenter, E. J. *see* **Tuszyński, Jacek A. et al.**
Chazelle, Bernard (*with* Kingsford, Carl; Singh, Mona) A semidefinite programming approach to side chain positioning with new rounding strategies. (English summary) **2005g:92015**
Chiu, David K. Y. (*with* Wong, Andrew K. C.) Multiple pattern associations for interpreting structural and functional characteristics of biomolecules. (English summary)
Chou, Kuo-Chen *see* **Wang, Meng[3] et al.**
Condon, Anne (*with* Davy, Beth; Rastegari, Baharak; Zhao, Yinglei; Tarrant, Finbarr) Classifying RNA pseudoknotted structures. (English summary) **2005a:92016**
Crawford, Ellen *see* **Tuszyński, Jacek A. et al.**
Crivelli, Silvia *see* **Eskow, Elizabeth et al.**
Curti, M. (*with* Degano, Pierpaolo; Priami, C.; Baldari, C. T.) Modelling biochemical pathways through enhanced π-calculus. (English summary) **2005e:92015**
Danos, Vincent (*with* Laneve, Cosimo) Formal molecular biology. (English summary) **2005g:92016**
Davy, Beth *see* **Condon, Anne et al., 2005a:92016**
Degano, Pierpaolo *see* **Curti, M. et al., 2005e:92015**
Di Crescenzo, Antonio *see* **Buonocore, Aniello et al., (2005d:92001)**
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Eisenberg, R. S. *see* **Nadler, Boaz et al.**
Elston, Timothy C. *see* **Goedecke, D. Michael**
Eremko, Aleksandr Aleksandrovich *see* **Brizhik, L. et al., 2005k:92023**
Eskow, Elizabeth (*with* Bader, Brett W.; Byrd, Richard H.; Crivelli, Silvia; Head-Gordon, Teresa; Lamberti, Vincent; Schnabel, Robert B.) An optimization approach to the problem of protein structure prediction. (English summary)
Eveillard, Damien (*with* Ropers, Delphine; de Jong, Hidde; Branlant, Christiane; Bockmayr, Alexander) A multi-scale constraint programming model of alternative splicing regulation. (English summary) **2005e:92016**
Famili, Iman *see* **Wiback, Sharon J. et al.**
Feng, Jian Feng[1] (*with* Ferraro, E.; Tirozzi, Brunello) Impact of temperature and pH value on the stability of hGHRH: an MD approach. (English summary)
Ferraro, E. *see* **Feng, Jian Feng[1] et al.**
Gardner, Richard J. (*with* Longinetti, Marco; Sgheri, Luca) Reconstruction of orientations of a moving protein domain from paramagnetic data. (English summary)
Gilks, Walter R. (*with* Audit, Benjamin; de Angelis, Daniela; Tsoka, Sophia; Ouzounis, Christos A.) Percolation of annotation errors through hierarchically structured protein sequence databases. (English summary)
Goedecke, D. Michael (*with* Elston, Timothy C.) A model for the oscillatory motion of single dynein molecules. (English summary)
Good, Theresa A. *see* **Rodríguez, Mauricio et al.**
Goychuk, Igor (*with* Hänggi, Peter) Fractional diffusion modeling of ion channel gating. (English summary)
Greenberg, Harvey J. *see* **Wiback, Sharon J. et al.**
de Gunst, M. C. M. (*with* Schouten, J. G.) Model selection and parameter estimation for ion channel recordings with an application to the K^+ outward-rectifier in barley leaf. (English summary) **2005k:92024**
Hadeler, Karl P. (*with* Kuttler, Christina; Nussbaum, Alexander K.) Cleaving proteins for the immune system. (English summary) **2005a:92017**
Halford, Keith J. *see* **Halford, William P. et al.**
Halford, William P. (*with* Halford, Keith J.; Pierce, Amy T.) Mathematical analysis demonstrates that interferons-β and -γ interact in a multiplicative manner to disrupt herpes simplex virus replication. (English summary)
Han, Kyungsook *see* **Lee, Dongkyu, (2005g:00014)**
Hänggi, Peter *see* **Goychuk, Igor**
Havsteen, Bent H. Control of the pathogenic conformational change of the prion protein by an attractor of low order. (English summary)
Head-Gordon, Teresa *see* **Eskow, Elizabeth et al.**
Herrera, J. Julio E. (*with* Maza, M. A.; Minzoni, A. A.; Smyth, Noel F.; Worthy, Annette L.) Davydov soliton evolution in temperature gradients driven by hyperbolic waves. (English summary) **2005a:92018**
Hollerbach, Uwe *see* **Nadler, Boaz et al.**
Horike, Daisuke *see* **Yildirim, Necmettin et al., 2005a:92021**
Hua, Jean P. *see* **Rodríguez, Mauricio et al.**
Huang, Niu (*with* MacKerell, Alexander D., Jr.) Atomistic view of base flipping in DNA. (English summary)
de Jong, Hidde *see* **Eveillard, Damien et al., 2005e:92016**
Karkach, A. S. (*with* Romanyukha, A. A.) An energy criterion for the quality of immune defense and the pathogenicity of micro-organisms. (Russian. Russian summary) **2005e:92017**
King, John Robert *see* **Anguige, K. et al., 2005k:92022**
Kingsford, Carl *see* **Chazelle, Bernard et al., 2005g:92015**
Kooi, Bob W. *see* **Reijenga, Karin A. et al.**
Kuttler, Christina *see* **Hadeler, Karl P. et al., 2005a:92017**
Lage, Agustin *see* **León, Kalet et al.**
Lamberti, Vincent *see* **Eskow, Elizabeth et al.**
Laneve, Cosimo *see* **Danos, Vincent, 2005g:92016**
Lee, Dongkyu (*with* Han, Kyungsook) A genetic algorithm for predicting RNA pseudoknot structures. (English summary) (*see* **2005g:00014**)
León, Kalet (*with* Lage, Agustin; Carneiro, Jorge) Tolerance and immunity in a mathematical model of T-cell mediated suppression. (English summary)
Liao, Bo (*with* Wang, Tian Ming) General combinatorics of RNA secondary structure. (English summary) **2005c:92013**
Longinetti, Marco *see* **Gardner, Richard J. et al.**
MacKerell, Alexander D., Jr. *see* **Huang, Niu**
Mackey, Michael C. *see* **Yildirim, Necmettin et al., 2005a:92021**
Mahadevan, L. *see* **Villa, Elizabeth et al., 2005h:92012**
Marko, John F. *see* **Sankararaman, Sumithra**
Martinucci, Barbara *see* **Buonocore, Aniello et al., (2005d:92001)**
Maza, M. A. *see* **Herrera, J. Julio E. et al., 2005a:92018**
van Megen, Yvonne M. G. A. *see* **Reijenga, Karin A. et al.**
Meinhold, Lars Realistic description of single cluster calcium signalling. (English summary) (*see* **2005d:92001**)
Minzoni, A. A. *see* **Herrera, J. Julio E. et al., 2005a:92018**
Montenegro, R. *see* **Soboleva, T. K. et al.**
Mozziconacci, Julien *see* **Barbi, Maria et al.**
Nadler, Boaz (*with* Schuss, Zeev; Hollerbach, Uwe; Eisenberg, R. S.) Saturation of conductance in single ion channels: the blocking effect of the near reaction field. (English summary)
Nip, M. L. A. *see* **Tuszyński, Jacek A. et al.**
Nixon, A. J. *see* **Soboleva, T. K. et al.**
Nussbaum, Alexander K. *see* **Hadeler, Karl P. et al., 2005a:92017**
Odijk, Theo Statics and dynamics of condensed DNA within phages and globules. (English summary)
Ouzounis, Christos A. *see* **Gilks, Walter R. et al.**
Palsson, Bernhard Ø. *see* **Wiback, Sharon J. et al.**
Panina, Ekaterina M. *see* **Regev, Aviv et al., 2005e:92018**
Park, Sung-Joon (*with* Takada, Shoji; Yamamura, Masayuki) Two-layered comparison of protein structures by real-coded GA. (Japanese. English and Japanese summaries)
Pearson, A. J. *see* **Soboleva, T. K. et al.**
Pécou, Elisabeth Splitting the dynamics of large biochemical interaction networks. (English summary)
Pereira, Pablo *see* **Sepúlveda, Nuno et al.**
Pierce, Amy T. *see* **Halford, William P. et al.**
Piette, B. M. A. G. *see* **Brizhik, L. et al., 2005k:92023**
Priami, C. *see* **Curti, M. et al., 2005e:92015**
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Rastegari, Baharak *see* **Condon, Anne et al., 2005a:92016**
Raval, Alpan Some asymptotic properties of duplication graphs. (English summary) **2005a:92019**
Regev, Aviv (*with* Panina, Ekaterina M.; Silverman, William; Cardelli, Luca; Shapiro, Ehud) BioAmbients: an abstraction for biological compartments. (English summary) **2005e:92018**
Reijenga, Karin A. (*with* van Megen, Yvonne M. G. A.; Kooi, Bob W.; Bakker, Barbara M.; Snoep, Jacky L.; van Verseveld, Henk W.; Westerhoff, Hans V.) Yeast glycolytic oscillations that are not controlled by a single oscillophore: a new definition of oscillophore strength. (English summary)
Ristić, Vladimir Miroslav *see* **Todorović, D. R. et al., 2005e:92019**
Ristovski, Lj. M. *see* **Todorović, D. R. et al., 2005e:92019**
Rodríguez, Mauricio (*with* Good, Theresa A.; Wales, Melinda E.; Hua, Jean P.; Wild, James R.) Modeling allosteric regulation of de novo pyrimidine biosynthesis in *Escherichia coli*. (English summary)
Romanyukha, A. A. *see* **Karkach, A. S., 2005e:92017**
Ropers, Delphine *see* **Eveillard, Damien et al., 2005e:92016**
Sankararaman, Sumithra (*with* Marko, John F.) Formation of loops in DNA under tension. (English summary)
Santillán, Moisés *see* **Yildirim, Necmettin et al., 2005a:92021**
Satarić, M. V. *see* **Tuszyński, Jacek A. et al.**
Schlick, Tamar *see* **Zhang, Qing[5] et al.**
Schnabel, Robert B. *see* **Eskow, Elizabeth et al.**
Schouten, J. G. *see* **de Gunst, M. C. M., 2005k:92024**
Schulten, Klaus *see* **Villa, Elizabeth et al., 2005h:92012**
Schuss, Zeev *see* **Nadler, Boaz et al.**
Sepúlveda, Nuno (*with* Boucontet, Laurent; Pereira, Pablo; Carneiro, Jorge) Stochastic modeling of T cell receptor γ gene rearrangement. (English summary)
Sgheri, Luca *see* **Gardner, Richard J. et al.**
Shan, Baozhen Stochastic context-free graph grammars for glycoprotein modelling. (English summary) (*see* **2005m:68009**)
Shapiro, Ehud *see* **Regev, Aviv et al., 2005e:92018**
Silverman, William *see* **Regev, Aviv et al., 2005e:92018**
Sims, Kellie J. *see* **Voit, Eberhard O. et al.**
Singh, Mona *see* **Chazelle, Bernard et al., 2005g:92015**
Sivolob, Andrei (*with* Prunell, Ariel) Nucleosome conformational flexibility and implications for chromatin dynamics. (English summary) **2005b:92017**

Smyth, Noel F. *see* **Herrera, J. Julio E. et al., 2005a:92018**
Sneyd, James *see* **Soboleva, T. K. et al.**
Snoep, Jacky L. *see* **Reijenga, Karin A. et al.**
Soboleva, T. K. (*with* Vetharaniam, I.; Nixon, A. J.; Montenegro, R.; Pearson, A. J.; Sneyd, James) Mathematical modelling of prolactin-receptor interaction and the corollary for prolactin receptor gene expression in skin. (English summary)
Sprott, J. C. Competition with evolution in ecology and finance. (English summary) **2005a:92020**
Steyaert, Jean-Marc *see* **Waldispühl, Jérôme, 2005m:92014**
Takada, Shoji *see* **Park, Sung-Joon et al.**
Tarrant, Finbarr *see* **Condon, Anne et al., 2005a:92016**
Tirozzi, Brunello *see* **Feng, Jian Feng[1] et al.**
Todorović, D. R. (*with* Ristovski, Lj. M.; Ristić, Vladimir Miroslav) Propagation of the soliton in a non-periodic protein chain. (English summary) **2005e:92019**
Travers, A. A. The structural basis of DNA flexibility. (English summary) **2005b:92018**
Tsoka, Sophia *see* **Gilks, Walter R. et al.**
Tuszyński, Jacek A. (*with* Brown, Jonathan Andrew; Crawford, Ellen; Carpenter, E. J.; Nip, M. L. A.; Dixon, J. M.; Satarić, M. V.) Molecular dynamics simulations of tubulin structure and calculations of electrostatic properties of microtubules. (English summary)
van Verseveld, Henk W. *see* **Reijenga, Karin A. et al.**
Vetharaniam, I. *see* **Soboleva, T. K. et al.**
Victor, Jean-Marc *see* **Barbi, Maria et al.**
Villa, Elizabeth (*with* Balaeff, Alexander; Mahadevan, L.; Schulten, Klaus) Multiscale method for simulating protein-DNA complexes. (English summary) **2005h:92012**
Voit, Eberhard O. (*with* Alvarez-Vasquez, Fernando; Sims, Kellie J.) Analysis of dynamic labeling data. (English summary)
Waldispühl, Jérôme (*with* Steyaert, Jean-Marc) Modeling and predicting all-α transmembrane proteins including helix–helix pairing. (English summary) **2005m:92014**
Wales, Melinda E. *see* **Rodríguez, Mauricio et al.**
Wang, Meng[3] (*with* Yang, Jie[3]; Xu, Zhi-Jie; Chou, Kuo-Chen) SLLE for predicting membrane protein types. (English summary)
Wang, Tian Ming *see* **Liao, Bo, 2005c:92013**
Ward, John Peter *see* **Anguige, K. et al., 2005k:92022**
Wattis, Jonathan A. D. Nonlinear breathing modes due to a defect in a DNA chain. (English summary)
Westerhoff, Hans V. *see* **Reijenga, Karin A. et al.**
Wiback, Sharon J. (*with* Famili, Iman; Greenberg, Harvey J.; Palsson, Bernhard Ø.) Monte Carlo sampling can be used to determine the size and shape of the steady-state flux space. (English summary)
Wild, James R. *see* **Rodríguez, Mauricio et al.**
Williams, Paul *see* **Anguige, K. et al., 2005k:92022**
Wong, Andrew K. C. *see* **Chiu, David K. Y.**
Worthy, Annette L. *see* **Herrera, J. Julio E. et al., 2005a:92018**
Xu, Zhi-Jie *see* **Wang, Meng[3] et al.**
Yamamura, Masayuki *see* **Park, Sung-Joon et al.**
Yanev, Nikolaĭ I. *see* **Andonov, Rumen et al., 2005g:92014**
Yang, Jie[3] *see* **Wang, Meng[3] et al.**
Yildirim, Necmettin (*with* Santillán, Moisés; Horike, Daisuke; Mackey, Michael C.) Dynamics and bistability in a reduced model of the *lac* operon. (English summary) **2005a:92021**
Zakrzewski, Wojciech J. *see* **Brizhik, L. et al., 2005k:92023**
Zhang, Qing[5] (*with* Broyde, Suse; Schlick, Tamar) Deformations of promoter DNA bound to carcinogens help interpret effects on TATA-element structure and activity. (English summary)
Zhao, Yinglei *see* **Condon, Anne et al., 2005a:92016**

Items with secondary classifications in 92C40

Addis, B. (*with* Schoen, F.) Docking of atomic clusters through nonlinear optimization. (English summary)
Aihara, Kazuyuki *see* **Tomioka, Ryota et al.**
Alber, Jochen (*with* Gramm, Jens; Guo, Jiong; Niedermeier, Rolf) Computing the similarity of two sequences with nested arc annotations. (English summary) **2005b:68118**
Alberto, P. V. (*with* Nogueira, Fernando; Rocha, Humberto; Vicente, Luís N.) Pattern search methods for user-provided points: application to molecular geometry problems. (English summary) **2005k:90146**
Al-Ghoul, Mazen Generalized hydrodynamics of reaction-diffusion systems and dissipative structures. (English summary) **2005g:35238**
Angeli, David (*with* Sontag, Eduardo D.) Interconnections of monotone systems with steady-state characteristics. (English summary) **2005f:93132**
Bachmann, Michael *see* **Schiemann, Reinhard et al., 2005j:82084**
Baigent, Stephen *see* **Banaji, Murad et al., 2005m:92012**
Balaeff, Alexander (*with* Koudella, Christophe R.; Mahadevan, L.; Schulten, Klaus) Modelling DNA loops using continuum and statistical mechanics. (English summary) **2005c:92019**
Ban, Yih-En Andrew (*with* Bereg, Sergei; Mustafa, Nabil H.) On a conjecture on Wiener indices in combinatorial chemistry. (English summary) (*see* **2005a:05002**)
Banaji, Murad (*with* Tachtsidis, Ilias; Delpy, David; Baigent, Stephen) A physiological model of cerebral blood flow control. (English summary) **2005m:92012**
Bauer, William R. *see* **White, J. H., 2005b:92029**
Beecher, Chris *see* **Simmons, Susan J. et al., (2005i:62003)**
Belotserkovskii, Boris P. (*with* Zarling, David A.) Analysis of a one-dimensional random walk with irreversible losses at each step: applications for protein movement on DNA. (English summary) **2005b:92025**
Bereg, Sergei *see* **Ban, Yih-En Andrew et al., (2005a:05002)**
Boiti, M. (*with* Leon, Jérôme Jp.; Pempinelli, F.; Spire, A.) Resonant two-wave interaction in the Davydov model. (English summary) **2005a:37133**
Bommarius, Andreas S. *see* **Dubey, Anshul et al.**
Booth, Hilary S. (*with* Burden, Conrad J.; Hegland, Markus; Santoso, Lucia) Markov process modelling of gene regulation. (English summary) **2005j:92014**
Bousoño-Calzón, Carlos *see* **Pelta, David et al.**
Brasier, Allan R. *see* **Lipniacki, Tomasz et al.**
Burden, Conrad J. *see* **Booth, Hilary S. et al., 2005j:92014**
Burke, Edmund K. *see* **Pelta, David et al.**
Burnley, B. Tom (*with* Cox, Jonathan P. L.) Dynamic polyhedral models of globular proteins. (English summary)
Buttimore, Nigel H. *see* **Kosiol, Carolin et al.**
Callard, Robin *see* **Yates, Andrew James et al.**
Campos, Paulo R. A. (*with* de Oliveira, Viviane M.; Wagner, Günter P.; Stadler, Peter F.) Gene phylogenies and protein-protein interactions: possible artifacts resulting from shared protein interaction partners. (English summary)
Carr, Robert D. (*with* Lancia, Giuseppe G.) Compact optimization can outperform separation: a case study in structural proteomics. (English summary) **2005h:90104**
Chao, Kun-Mao *see* **Lin, Yaw-Ling et al., (2005b:68019)**
Chen, Wen Yan (*with* Wang, Ming Xin[2]) Positive steady states of a competitor-competitor-mutualist model. (English summary) **2005a:35072**
Cohen, E. G. D. (*with* Mauzerall, David) A note on the Jarzynski equality. (English summary) **2005m:82083**
Coleman, Bernard D. (*with* Swigon, David) Theory of self-contact in Kirchhoff rods with applications to supercoiling of knotted and unknotted DNA plasmids. (English summary) **2005d:74016**
— *see also* **Olson, Wilma K. et al., 2005b:92027**
Condon, Anne Problems on RNA secondary structure prediction and design. (English summary) (*see* **2005b:68008**)
Cotik, V. (*with* Romero Zaliz, R.; Zwir, I.) A hybrid promoter analysis methodology for prokaryotic genomes. (English summary)
Coveney, Peter V. *see* **Grindon, Christina et al.**
Cox, Jonathan P. L. *see* **Burnley, B. Tom**
Daley, Mark (*with* McQuillan, Ian) Formal modelling of viral gene compression. (English summary) **2005k:92035**
Das, Amit Kumar *see* **Misra, J. C. et al.**
De Bonis, Annalisa (*with* Gąsieniec, Leszek; Vaccaro, Ugo) Generalized framework for selectors with applications in optimal group testing. (English summary) (*see* **2005b:68008**)
Delpy, David *see* **Banaji, Murad et al., 2005m:92012**
Dubey, Anshul (*with* Realff, Matthew J.; Lee, Jay H.; Bommarius, Andreas S.) Support vector machines for learning to identify the critical positions of a protein. (English summary)
Efrat, Alon (*with* Hoffmann, Frank[1]; Knauer, Christian; Kriegel, Klaus; Rote, Günter; Wenk, Carola) Covering with ellipses. (English summary) **2005b:68262**
Elber, Ron *see* **Wagner, Michael et al.**
Emiris, Ioannis Z. (*with* Nikitopoulos, Theodoros G.) Molecular conformation search by distance matrix perturbations. (English summary) **2005m:92070**
Evans, Tom *see* **Grindon, Christina et al.**
Feoli, A. (*with* Nesterenko, Vladimir; Scarpetta, G.) Functionals linear in curvature and statistics of helical proteins. (English summary) **2005h:82122**
Fox, Richard Directed molecular evolution by machine learning and the influence of nonlinear interactions. (English summary)
Garte, Seymour Fractal properties of the human genome. (English summary)
Gąsieniec, Leszek *see* **De Bonis, Annalisa et al., (2005b:68008)**
Goldman, Nick *see* **Kosiol, Carolin et al.**
Goyal, Sachin (*with* Perkins, N. C.; Lee, Christopher) Nonlinear dynamics and loop formation in Kirchhoff rods with implications to the mechanics of DNA and cables. (English summary)
Gramm, Jens *see* **Alber, Jochen et al., 2005b:68118**
Grindon, Christina (*with* Harris, Sarah; Evans, Tom; Novik, Keir; Coveney, Peter V.; Laughton, Charles) Large-scale molecular dynamics simulation of DNA: implementation and validation of the AMBER98 force field in LAMMPS. (English summary)
Guimarães, G. (*with* Urfer, W.) Self-organizing maps and its applications in sleep apnea research and molecular genetics. (English summary) (*see* **2005b:62008**)
Guo, Jiong *see* **Alber, Jochen et al., 2005b:68118**
Han, Le (*with* Mo, Zhong Xi) RNA-Z curve and its application in distinguishing bacterial genomes. (Chinese. English and Chinese summaries)
Harju, Tero (*with* Petre, Ion; Rozenberg, Grzegorz) Two models for gene assembly in ciliates. (English summary) (*see* **2005g:68002**)
Harris, Sarah *see* **Grindon, Christina et al.**
Hegland, Markus *see* **Booth, Hilary S. et al., 2005j:92014**
van der Heijden, G. H. M. A robust variational formulation for a rod subject to inequality constraints. (English summary) (*see* **2005g:74002**)
Hirst, Jonathan D. *see* **Pelta, David et al.**
Hoffman, Kathleen A. Methods for determining stability in continuum elastic-rod models of DNA. (English summary) **2005c:74055**
Hoffmann, Frank[1] *see* **Efrat, Alon et al., 2005b:68262**
Hoos, Holger H. *see* **Shmygelska, Alena, (2005f:68004)**
Huang, Wen Qi[1] (*with* Lü, Zhipeng) Personification algorithm for protein folding problem: improvements in PERM. (English summary)
Huisinga, Wilhelm *see* **Schütte, Christof, (2005c:81001)**
Jacobson, K. *see* **Rubinstein, Boris et al., 2005j:92013**
Janke, Wolfhard *see* **Schiemann, Reinhard et al., 2005j:82084**
Jiang, Tao[1] *see* **Lin, Yaw-Ling et al., (2005b:68019)**
Keener, James P. A model for length control of flagellar hooks of *Salmonella typhimurium*. (English summary)
Kimmel, Marek *see* **Lipniacki, Tomasz et al.**
Kimura, Hidenori *see* **Tomioka, Ryota et al.**
Knauer, Christian *see* **Efrat, Alon et al., 2005b:68262**
Kobayashi, Tetsuya J. *see* **Tomioka, Ryota et al.**
Kosiol, Carolin (*with* Goldman, Nick; Buttimore, Nigel H.) A new criterion and method for amino acid classification. (English summary)
Koudella, Christophe R. *see* **Balaeff, Alexander et al., 2005c:92019**
Kowalczyk, Michał Approximate invariant manifold of the Allen-Cahn flow in two dimensions. (English summary) **2005i:35090**

Krasnogor, Natalio *see* **Pelta, David et al.**
Kriegel, Klaus *see* **Efrat, Alon et al., 2005b:68262**
Lancia, Giuseppe G. *see* **Carr, Robert D., 2005h:90104**
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Lee, Jay H. *see* **Dubey, Anshul et al.**
Leon, Jérôme Jp. *see* **Boiti, M. et al., 2005a:37133**
Li, Ming[1] (*with* Ma, Bin; Wang, Lu Sheng) On the closest string and substring problems. (English summary) **2005m:68256**
Lin, Xiaodong *see* **Simmons, Susan J. et al., (2005i:62003)**
Lin, Yaw-Ling (*with* Jiang, Tao[1]; Chao, Kun-Mao) Efficient algorithms for locating the length-constrained heaviest segments, with applications to biomolecular sequence analysis (extended abstract). (English summary) (*see* **2005b:68019**)
Lipniacki, Tomasz (*with* Paszek, Pawel; Brasier, Allan R.; Luxon, Bruce; Kimmel, Marek) Mathematical model of NF-κB regulatory module. (English summary)
Lü, Zhipeng *see* **Huang, Wen Qi[1]**
Luxon, Bruce *see* **Lipniacki, Tomasz et al.**
Ma, Bin *see* **Li, Ming[1] et al., 2005m:68256**
Mahadevan, L. *see* **Balaeff, Alexander et al., 2005c:92019**
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McQuillan, Ian *see* **Daley, Mark, 2005k:92035**
Meller, Jarosław *see* **Wagner, Michael et al.**
Misra, J. C. (*with* Mukherjee, S.; Das, Amit Kumar) A mathematical model for enzymatic action on DNA knots and links. (English summary)
Mo, Zhong Xi *see* **Shi, Feng[1] et al.** *and* **Han, Le**
Mogilner, A. *see* **Rubinstein, Boris et al., 2005j:92013**
Mondaini, R. P. The Steiner ratio and the homochirality of biomacromolecular structures. (English summary) **2005d:05049**
Mukherjee, S. *see* **Misra, J. C. et al.**
Musavi, M. T. *see* **Ressom, H. et al.**
Mustafa, Nabil H. *see* **Ban, Yih-En Andrew et al., (2005a:05002)**
Narang, Atul *see* **Pilyugin, Sergei S. et al., 2005j:92024** *and* **2005j:92025**
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Nesterenko, Vladimir *see* **Feoli, A. et al., 2005h:82122**
Niedermeier, Rolf *see* **Alber, Jochen et al., 2005b:68118**
Nikitopoulos, Theodoros G. *see* **Emiris, Ioannis Z., 2005m:92070**
Nilsson, Martin[1] (*with* Rasmussen, Steen; Mayer, Bernd; Whitten, David) Constructive molecular dynamics lattice gases: three-dimensional molecular self-assembly. **2005d:82088**
Nogueira, Fernando *see* **Alberto, P. V. et al., 2005k:90146**
Novik, Keir *see* **Grindon, Christina et al.**
de Oliveira, Viviane M. *see* **Campos, Paulo R. A. et al.**
Olson, Wilma K. (*with* Swigon, David; Coleman, Bernard D.) Implications of the dependence of the elastic properties of DNA on nucleotide sequence. (English summary) **2005b:92027**
Østby, Ivar (*with* Winther, Ragnar) Stability of a model of human granulopoiesis using continuous maturation. (English summary) **2005f:92038**
Paszek, Pawel *see* **Lipniacki, Tomasz et al.**
Pelta, David (*with* Krasnogor, Natalio; Bousoño-Calzón, Carlos; Verdegay, José Luis; Hirst, Jonathan D.; Burke, Edmund K.) A fuzzy sets based generalization of contact maps for the overlap of protein structures. (English summary)
Pempinelli, F. *see* **Boiti, M. et al., 2005a:37133**
Perkins, N. C. *see* **Goyal, Sachin et al.**
Petre, Ion *see* **Harju, Tero et al., (2005g:68002)**
Pilyugin, Sergei S. (*with* Reeves, Gregory T.; Narang, Atul) Predicting stability of mixed microbial cultures from single species experiments. I. Phenomenological model. (English summary) **2005j:92024**
— (*with* Reeves, Gregory T.; Narang, Atul) Predicting stability of mixed microbial cultures from single species experiments. II. Physiological model. (English summary) **2005j:92025**
Pool, Michael An applied calculus for spatial accessibility reasoning. (English summary) **2005m:68193**
Qin, Hong Shan (*with* Sun, Feng Lan; Wang, Ke Qi; Yang, Xin Qi) Study on the dynamic parameters of space-folding patterns of the non-homologous protein. (Chinese. English and Chinese summaries)
Rasmussen, Steen *see* **Nilsson, Martin[1] et al., 2005d:82088**
Realff, Matthew J. *see* **Dubey, Anshul et al.**
Reeves, Gregory T. *see* **Pilyugin, Sergei S. et al., 2005j:92024** *and* **2005j:92025**
Ren, Xiaofeng (*with* Wei, Juncheng) The soliton-stripe pattern in the Seul-Andelman membrane. (English summary) **2005e:74023**
Ressom, H. (*with* Natarajan, Padma; Varghese, R. S.; Musavi, M. T.) Applications of fuzzy logic in genomics. (English summary)
Rocchia, W. Poisson-Boltzmann equation boundary conditions for biological applications. (English summary) **2005m:35044**
Rocha, Humberto *see* **Alberto, P. V. et al., 2005k:90146**
Romero Zaliz, R. *see* **Cotik, V. et al.**
Rosselló-Llompart, Francesc Reidys' and Stadler's metrics for RNA contact structures. (English summary)
Rote, Günter *see* **Efrat, Alon et al., 2005b:68262**
Rozenberg, Grzegorz *see* **Harju, Tero et al., (2005g:68002)**
Rubinstein, Boris (*with* Jacobson, K.; Mogilner, A.) Multiscale two-dimensional modeling of a motile simple-shaped cell. (English summary) **2005j:92013**
Santillán, Moisés (*with* Zeron, Eduardo S.) Dynamic influence of feedback enzyme inhibition and transcription attenuation on the tryptophan operon response to nutritional shifts. (English summary)
Santoso, Lucia *see* **Booth, Hilary S. et al., 2005j:92014**
Scarpetta, G. *see* **Feoli, A. et al., 2005h:82122**
Schiemann, Reinhard (*with* Bachmann, Michael; Janke, Wolfhard) Exact enumeration of three-dimensional lattice proteins. (English summary) **2005j:82084**
Schoen, F. *see* **Addis, B.**
Schulten, Klaus *see* **Balaeff, Alexander et al., 2005c:92019**
Schütte, Christof (*with* Huisinga, Wilhelm) Biomolecular conformations can be identified as metastable sets of molecular dynamics. (*see* **2005c:81001**)
Shi, Feng[1] (*with* Mo, Zhong Xi; Zhang, Chu Yu) HMM (hidden Markov models)—a new method for predicting protein secondary structure. (Chinese. English and Chinese summaries)
Shmygelska, Alena (*with* Hoos, Holger H.) An improved ant colony optimisation algorithm for the 2D HP protein folding problem. (English summary) (*see* **2005f:68004**)
Simmons, Susan J. (*with* Lin, Xiaodong; Beecher, Chris; Truong, Young; Young, S. Stanley) Active and passive learning to explore a complex metabolism data set. (English summary) (*see* **2005i:62003**)
Sontag, Eduardo D. *see* **Angeli, David, 2005f:93132**
Spire, A. *see* **Boiti, M. et al., 2005a:37133**
Stadler, Peter F. *see* **Campos, Paulo R. A. et al.**
Stark, Jaroslav *see* **Yates, Andrew James et al.**
Sumners, De Witt *see* **Vazquez, Mariel, 2005d:57013**
Sun, Feng Lan *see* **Qin, Hong Shan et al.**
Swigon, David *see* **Olson, Wilma K. et al., 2005b:92027** *and* **Coleman, Bernard D., 2005d:74016**
Tachtsidis, Ilias *see* **Banaji, Murad et al., 2005m:92012**
Tobias, Irwin Thermal fluctuations of small rings of intrinsically helical DNA treated like an elastic rod. (English summary) **2005b:92028**
Tomioka, Ryota (*with* Kimura, Hidenori; Kobayashi, Tetsuya J.; Aihara, Kazuyuki) Multivariate analysis of noise in genetic regulatory networks. (English summary)
Toussaint, Godfried The Erdős-Nagy theorem and its ramifications. (English summary) **2005m:52024**
Truong, Young *see* **Simmons, Susan J. et al., (2005i:62003)**
Urfer, W. *see* **Guimarães, G., (2005b:62008)**
Vaccaro, Ugo *see* **De Bonis, Annalisa et al., (2005b:68008)**
Varghese, R. S. *see* **Ressom, H. et al.**
Vazquez, Mariel (*with* Sumners, De Witt) Tangle analysis of Gin site-specific recombination. (English summary) **2005d:57013**
Verdegay, José Luis *see* **Pelta, David et al.**
Vicente, Luís N. *see* **Alberto, P. V. et al., 2005k:90146**
Vivien, Frédéric (*with* Wicker, Nicolas) Minimal enclosing parallelepiped in 3D. (English summary) **2005g:52039**
Wagner, Günter P. *see* **Campos, Paulo R. A. et al.**
Wagner, Michael (*with* Meller, Jarosław; Elber, Ron) Large-scale linear programming techniques for the design of protein folding potentials. (English summary)
Wang, Ke Qi *see* **Qin, Hong Shan et al.**
Wang, Lu Sheng *see* **Li, Ming[1] et al., 2005m:68256**
Wang, Ming Xin[2] *see* **Chen, Wen Yan, 2005a:35072**
Wei, Juncheng *see* **Ren, Xiaofeng, 2005e:74023**
Wenk, Carola *see* **Efrat, Alon et al., 2005b:68262**
White, J. H. (*with* Bauer, William R.) Finite-element analysis of the displacement of closed DNA loops under torsional stress. (English summary) **2005b:92029**
Whitten, David *see* **Nilsson, Martin[1] et al., 2005d:82088**
Wicker, Nicolas *see* **Vivien, Frédéric, 2005g:52039**
Wilson, D. P. (*with* McElwain, D. L. S.) Diffusion theory can be applied to antibodies attaching to ligand sites. (English summary)
Winther, Ragnar *see* **Østby, Ivar, 2005f:92038**
Yang, Xin Qi *see* **Qin, Hong Shan et al.**
Yates, Andrew James (*with* Callard, Robin; Stark, Jaroslav) Combining cytokine signalling with T-bet and GATA-3 regulation in Th1 and Th2 differentiation: a model for cellular decision-making. (English summary)
Young, S. Stanley *see* **Simmons, Susan J. et al., (2005i:62003)**
Zarling, David A. *see* **Belotserkovskii, Boris P., 2005b:92025**
Zeron, Eduardo S. *see* **Santillán, Moisés**
Zhang, Chu Yu *see* **Shi, Feng[1] et al.**
Zwir, I. *see* **Cotik, V. et al.**

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Alexiades, V. *see* **Khanal, H. et al., (2005i:00016)**
Belbas, S. A. (*with* Kim, Sunghee) Impulsive modelling in neurophysiology. (English summary) (*see* **2005i:00016**)
Chapman, Michael J. *see* **Evans, Neil D. et al., 2005a:92022**
Chappell, Michael J. *see* **Evans, Neil D. et al., 2005a:92022**
DiBenedetto, Emmanuele *see* **Khanal, H. et al., (2005i:00016)**
Dimcevici-Poesina, Nicoleta On robust procedures for bioassays case fixed dose design. (English summary)
Edelman, Elazer R. *see* **Tzafriri, Abraham R. et al.**
Errington, Rachel J. *see* **Evans, Neil D. et al., 2005a:92022**
Evans, Neil D. (*with* Errington, Rachel J.; Shelley, Michael David; Feeney, Graham P.; Chapman, Michael J.; Godfrey, Keith R.; Smith, Paul J.; Chappell, Michael J.) A mathematical model for the in vitro kinetics of the anti-cancer agent topotecan. (English summary) **2005a:92022**
Feeney, Graham P. *see* **Evans, Neil D. et al., 2005a:92022**
Godfrey, Keith R. *see* **Evans, Neil D. et al., 2005a:92022**
Hinch, R. (*with* Schnell, S.) Mechanism equivalence in enzyme-substrate reactions: distributed differential delay in enzyme kinetics. (English summary) **2005c:92014**
Jacobsen, Judith L. *see* **Tornøe, Christoffer Wenzel et al., 2005c:92015**
Khanal, H. (*with* Alexiades, V.; DiBenedetto, Emmanuele) Response of dark-adapted retinal rod photoreceptors. (English summary) (*see* **2005i:00016**)
Kim, Sunghee *see* **Belbas, S. A., (2005i:00016)**
Madsen, Henrik O. *see* **Tornøe, Christoffer Wenzel et al., 2005c:92015**
Schnell, S. *see* **Hinch, R., 2005c:92014**

Shelley, Michael David *see* **Evans, Neil D. et al., 2005a:92022**
Smith, Paul J. *see* **Evans, Neil D. et al., 2005a:92022**
Tang, Yun-Hai A high-order streamline Godunov scheme for steady hypersonic chemical nonequilibrium expanding flows. (English summary) **2005a:92023**
Tornøe, Christoffer Wenzel (*with* Jacobsen, Judith L.; Madsen, Henrik O.) Grey-box pharmacokinetic/pharmacodynamic modelling of a euglycaemic clamp study. (English summary) **2005c:92015**
Tzafriri, Abraham R. (*with* Wu, David; Edelman, Elazer R.) Analysis of compartmental models of ligand-induced endocytosis. (English summary)
Wu, David *see* **Tzafriri, Abraham R. et al.**

Items with secondary classifications in 92C45

Baronas, R. (*with* Ivanauskas, Feliksas; Kulys, J.) The effect of diffusion limitations on the response of amperometric biosensors with substrate cyclic conversion. (English summary) **2005b:35141**
— (*with* Ivanauskas, Feliksas; Maslovskis, R.; Vaitkus, P.) An analysis of mixtures using amperometric biosensors and artificial neural networks. (English summary)
Chiragwandi, Z. *see* **Willander, M. et al., 2005h:76069**
Chow, Shein-Chung (*with* Pong, Annpey) Statistics in biopharmaceutical research. (*see* **2005c:62003**)
Edwards, David Alan[2] Refining the measurement of rate constants in the BIAcore. (English summary)
Ivanauskas, Feliksas *see* **Baronas, R. et al., 2005b:35141**
Kubo, Akisato (*with* Suzuki, Takashi[1]) Asymptotic behavior of the solution to a parabolic ODE system modeling tumour growth. (English summary) **2005e:35102**
Kulys, J. *see* **Baronas, R. et al., 2005b:35141**
Lai, Tze Leung (*with* Shih, Mei-Chiung; Zhu, Guangrui) Statistics in pharmacology and pre-clinical studies. (*see* **2005c:62003**)
Liu, Shen Quan[2] Structure of wave front and organization center in excitable media. (Chinese. English and Chinese summaries) **2005g:35011**
Mamontov, Yevgeny V. *see* **Willander, M. et al., 2005h:76069**
Mascagni, Michael (*with* Simonov, Nikolai A.) Monte Carlo methods for calculating some physical properties of large molecules. (English summary) **2005i:65011**
Maslovskis, R. *see* **Baronas, R. et al.**
Pong, Annpey *see* **Chow, Shein-Chung, (2005c:62003)**
Shih, Mei-Chiung *see* **Lai, Tze Leung et al., (2005c:62003)**
Simonov, Nikolai A. *see* **Mascagni, Michael, 2005i:65011**
Suzuki, Takashi[1] *see* **Kubo, Akisato, 2005e:35102**
Tóth, Roland Simulation results on the asymptotic periodicity of compartmental systems with lags. (English summary) **2005a:34109**
Vaitkus, P. *see* **Baronas, R. et al.**
Willander, M. (*with* Mamontov, Yevgeny V.; Chiragwandi, Z.) Modelling living fluids with the subdivision into the components in terms of probability distributions. (English summary) **2005h:76069**
Zhu, Guangrui *see* **Lai, Tze Leung et al., (2005c:62003)**

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Abbott, Derek *see* **Spencer, Sabrina L. et al.**
Abed, Eyad H. *see* **Hassouneh, Munther A., 2005e:92020**
Adams, Brian Michael (*with* Banks, H. T.; Kwon, Hee-Dae; Tran, Hien T.) Dynamic multidrug therapies for HIV: optimal and STI control approaches. (English summary) **2005k:92025**
Agur, Z. *see* **Vainstein, Vladimir et al.**
Ahangar, Reza Computer simulation and modeling of multistage carcinogenesis mutations. (English summary) (*see* **2005i:00016**)
Alarcón, T. (*with* Byrne, Helen M.; Maini, Philip K.) A multiple scale model for tumor growth. (English summary)
Allison, E. (*with* Colton, A. D.; Gorman, Arthur D.; Kurt, Robert A.; Shainheit, M.) A mathematical model of the effector cell response to cancer. (English summary) **2005b:92019**
Anderson, Alexander R. A. *see* **Stéphanou, A. et al.**
Araujo, R. P. (*with* McElwain, D. L. S.) A linear-elastic model of anisotropic tumour growth. (English summary) **2005d:92008**
Arciero, J. C. (*with* Jackson, Trachette L.; Kirschner, Denise E.) A mathematical model of tumor-immune evasion and siRNA treatment. (English summary) **2005c:92016**
Atkinson, Colin *see* **Eftaxiopoulos, Dimitrios A.**
Aviram, I. *see* **Gutman, M. et al., 2005k:92028**
Axelrod, David E. *see* **Sontag, Laura**
Ayache, Nicholas *see* **Delingette, Hervé, (2005e:92001)**
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Banks, H. T. *see* **Adams, Brian Michael et al., 2005k:92025**
Bass, Ludvik *see* **Munk, Ole Lajord et al.**
Basse, Britta (*with* Baguley, Bruce C.; Marshall, Elaine S.; Joseph, Wayne R.; van Brunt, Bruce; Wake, Graeme; Wall, David J. N.) Modelling cell death in human tumour cell lines exposed to the anticancer drug paclitaxel. (English summary) **2005g:92017**
Batzel, Jerry J. (*with* Timischl-Teschl, Susanne; Kappel, Franz) A cardiovascular-respiratory control system model including state delay with application to congestive heart failure in humans. (English summary) **2005k:92026**
Bauer, S. M. (*with* Lyubimov, G. A.; Tovstik, P. E.) Mathematical modeling of Maklakoff's method for measuring the intraocular pressure. (Russian. Russian summary)
Benhamou, Simon How to reliably estimate the tortuosity of an animal's path: straightness, sinuosity, or fractal dimension? (English summary)
van den Berg, Tom J. T. P. *see* **Sicam, Victor Arni D. P. et al.**
Berryman, Matthew J. *see* **Spencer, Sabrina L. et al.**
Bertuzzi, Alessandro (*with* Fasano, Antonio; Filidoro, L.; Gandolfi, Alberto[1]; Sinisgalli, C.) Dynamics of tumour cords following changes in oxygen availability: a model including a delayed exit from quiescence. (English summary) **2005m:92015**
Beuter, Anne *see* **Titcombe, Michèle S. et al.**
Bhattacharyya, Mouchumi (*with* Klein, John P.) A random effects model for multistate survival analysis with application to bone marrow transplants. (English summary)
Biswas, Pradip K. (*with* Pacheco, M. T. T.) Modeling and simulation of multicellular tumor growth using a nonlinear matter wave equation. (English summary)
Bohnen, Nicolaas I. *see* **Constantine, Gregory M. et al., 2005a:92025**
Bounaïm, A. (*with* Holm, Sverre; Chen, Wen[1]; Ødegård, Å.; Tveito, Aslak; Thomenius, K.) FETD simulation of wave propagation modeling the CARI breast sonography. (English summary) (*see* **2005g:65009**)
— (*with* Holm, Sverre; Chen, Wen[1]; Ødegård, Å.) Mathematics in medicine: bioacoustic modeling and computations for an ultrasonic imaging technique. (English summary) (*see* **2005m:00007**)
Brillard, A. Flow modelling of chemical species through a chromatographic column. (English summary)
van Brunt, Bruce *see* **Basse, Britta et al., 2005g:92017**
Bykova, A. A. (*with* Regirer, S. A.) Mathematical models in urinary system mechanics (review). (Russian. Russian summary)
Byrne, Helen M. *see* **Alarcón, T. et al.** *and* **Franks, S. J. et al.**
Carnero, Amancio *see* **Poyatos, Juan F.**
Carney, Paul R. *see* **Pardalos, Panos M. et al., 2005f:92011** *and* **Yatsenko, V. A. et al.**
Cassia-Moura, R. (*with* Xie, Fagen; Cerdeira, Hilda A.) Effect of heterogeneity on spiral wave dynamics in simulated cardiac tissue. (English summary)
Castillo-Chavez, Carlos (*with* Song, Baojun[1]) Dynamical models of tuberculosis and their applications. (English summary) **2005k:92027**
Cerdeira, Hilda A. *see* **Cassia-Moura, R. et al.**
Chaovalitwongse, Wanpracha *see* **Pardalos, Panos M. et al., 2005f:92011**
Chaplain, Mark A. J. *see* **Stéphanou, A. et al.**
Chaurasia, V. B. L. Equation of internal blood pressure and the H-function. (English summary)
Chen, Danny Z. (*with* Hu, Xiaobo S.; Luan, Shuang; Wu, Xiaodong[1]; Yu, Cedric X.) Optimal terrain construction problems and applications in intensity-modulated radiation therapy. (English summary) **2005m:92016**
Chen, Wen[1] *see* **Bounaïm, A. et al., (2005g:65009)** *and* **(2005m:00007)**
Chen, Zhi[4] *see* **Ivanov, Plamen Ch. et al.**
Cherry, Elizabeth M. *see* **Fenton, Flavio H. et al.**
Cho, Carolyn R. *see* **Lemaire, Vincent et al.**
Chow, Carson C. *see* **Constantine, Gregory M. et al., 2005a:92025**
Christini, David J. *see* **Gong, Yunfan**
Colli Franzone, Piero (*with* Guerri, Luciano; Taccardi, Bruno) Modeling ventricular excitation: axial and orthotropic anisotropy effects on wavefronts and potentials. (English summary) **2005a:92024**
Colton, A. D. *see* **Allison, E. et al., 2005b:92019**
Constantine, Gregory M. (*with* Bohnen, Nicolaas I.; Chow, Carson C.) Electronic platform measures of balance impairment in Parkinsonians and first degree relatives. (English summary) **2005a:92025**
Coppens, Joris *see* **Sicam, Victor Arni D. P. et al.**
Coward, Charles W. *see* **Tözeren, Aydin et al.**
Crystal, E. *see* **Friedman, Menahem et al.**
Cummings, Linda Jane (*with* Waters, S. L.; Wattis, Jonathan A. D.; Graham, S. J.) The effect of ureteric stents on urine flow: reflux. (English summary) **2005d:92009**
Çuvalcioğlu, Gökhan (*with* Mercan, Şule) Application of weak intuitionistic fuzzy sets for medical diagnosis. (English summary)
Delingette, Hervé (*with* Ayache, Nicholas) Soft tissue modeling for surgery simulation. (*see* **2005e:92001**)
Deng, Lin (*with* Ma, Jin Wen; Pei, Jian) Rank sum method for related gene selection and its application to tumor diagnosis. (Chinese. Chinese summary)
Dimcevici-Poesina, Nicoleta On profile similarity in bioequivalence trials. (English summary)
Doedel, Eusebius *see* **Krogh-Madsen, T. et al.**
Dyck, Cheryl *see* **Marée, Athanasius F. M. et al.**
Edelstein-Keshet, Leah *see* **Marée, Athanasius F. M. et al.**
Edwards, Roderick *see* **Titcombe, Michèle S. et al.**
Efimov, I. *see* **Takagi, Seiji et al.**
Eftaxiopoulos, Dimitrios A. (*with* Atkinson, Colin) A nonlinear, anisotropic and axisymmetric model for balloon angioplasty. (English summary)
Elser, James J. *see* **Kuang, Yang et al., 2005b:92020**
Emura, Sei *see* **Yamada, Masahiko et al.**
Engel, Christoph *see* **Scholz, Markus et al.**
Erëmin, Yu. A. (*with* Sveshnikov, Alekseĭ Georgievich) Analysis of the scattering properties of erythrocytes by the discrete source method. (Russian. Russian summary)
Fasano, Antonio *see* **Bertuzzi, Alessandro et al., 2005m:92015**
Fedulova, I. A. *see* **Hoffmann, Clemens et al.**
Fenton, Flavio H. (*with* Cherry, Elizabeth M.; Karma, Alain; Rappel, Wouter-Jan) Modeling wave propagation in realistic heart geometries using the phase-field method. (English summary)
Ferris, Michael C. (*with* Voelker, Meta M.) Fractionation in radiation treatment planning. (English summary)
Filidoro, L. *see* **Bertuzzi, Alessandro et al., 2005m:92015**
Finegood, Diane T. *see* **Marée, Athanasius F. M. et al.**
Fleidervish, I. *see* **Friedman, Menahem et al.**
Forger, Daniel B. (*with* Paydarfar, David) Starting, stopping, and resetting biological oscillators: in search of optimum perturbations. (English summary)
Franks, S. J. (*with* Byrne, Helen M.; Underwood, J. C. E.; Lewis, C. E.) Biological inferences from a mathematical model of comedo ductal carcinoma in situ of the breast. (English summary)
Frei, Mark G. *see* **Lai, Ying-Cheng et al.**
Friedman, Menahem (*with* Ovsyshcher, I. E.; Fleidervish, I.; Crystal, E.; Rabinovitch, Avinoam) Stimulation of unidirectional pulses in excitable systems. (English summary)
Gaffney, E. A. The application of mathematical modelling to aspects of adjuvant chemotherapy scheduling. (English summary) **2005a:92026**
Gandolfi, Alberto[1] *see* **Bertuzzi, Alessandro et al., 2005m:92015** *and* **d'Onofrio, Alberto**

García, José A. *see* Spencer, Sabrina L. et al.
Ghigliazza, Raffaele *see* Stengel, Robert F.
Ginosar, Y. *see* Vainstein, Vladimir et al.
Glass, Leon *see* Krogh-Madsen, T. et al.
Gong, Yunfan (*with* Christini, David J.) Functional reentrant waves propagate outwardly in cardiac tissue. (English summary)
Gorman, Arthur D. *see* Allison, E. et al., 2005b:92019
Graham, S. J. *see* Cummings, Linda Jane et al., 2005d:92009
Greller, Larry D. *see* Lemaire, Vincent et al.
Grenier, Emmanuel Quelques modèles en médecine. [Some models in medicine] (*see* 2005j:35001)
Grøttum, Per *see* Østby, Ivar et al.
Guerri, Luciano *see* Colli Franzone, Piero et al., 2005a:92024
Guevara, Michael R. *see* Krogh-Madsen, T. et al.
Gutman, M. (*with* Aviram, I.; Rabinovitch, Avinoam) Abnormal frequency locking and the function of the cardiac pacemaker. (English summary) 2005k:92028
Hanin, Leonid G. A stochastic model of tumor response to fractionated radiation: limit theorems and rate of convergence. (English summary) 2005c:92017
Harrison, Mary Ann F. *see* Lai, Ying-Cheng et al.
Hassouneh, Munther A. (*with* Abed, Eyad H.) Border collision bifurcation control of cardiac alternans. (English summary) 2005e:92020
van der Heijde, Rob G. L. *see* Sicam, Victor Arni D. P. et al.
Herrero, Pablo *see* Morgenthaler, Stephan et al., 2005h:92013
Hofer, Eberhard P. *see* Lehn, Frank
Hoffmann, Clemens (*with* Popov, A. M.; Pevtsov, S. E.; Fedulova, I. A.) Numerical solution of inverse mathematical problems of electroencephalography. (Russian)
Holm, Sverre *see* Bounaïm, A. et al., (2005g:65009) *and* (2005m:00007)
Hu, Kun *see* Ivanov, Plamen Ch. et al.
Hu, Xiaobo S. *see* Chen, Danny Z. et al., 2005m:92016
Ianovski, A. *see* Vainstein, Vladimir et al.
Iasemidis, Leonidas D. *see* Pardalos, Panos M. et al., 2005f:92011
Ibáñez, M. V. (*with* Simó, A.) Conditional and unconditional simulation of healthy patients' visual fields. (English summary)
Ivanov, Plamen Ch. (*with* Chen, Zhi[4]; Hu, Kun; Stanley, H. Eugene) Multiscale aspects of cardiac control. (English summary)
Iwasa, Yoh (*with* Michor, Franziska; Komarova, N. L.; Nowak, Martin A.) Population genetics of tumor suppressor genes. (English summary)
Jackson, Trachette L. *see* Arciero, J. C. et al., 2005c:92016
Johnson, Paul C. *see* Popel, Aleksander S., (2005h:76002)
Jones, Michael A. (*with* Song, Baojun[1]; Thomas, Diana M.) Controlling wound healing through debridement. (English summary)
Joseph, Wayne R. *see* Basse, Britta et al., 2005g:92017
Kappel, Franz *see* Batzel, Jerry J. et al., 2005k:92026
Karma, Alain *see* Fenton, Flavio H. et al.
Keiding, Susanne *see* Munk, Ole Lajord et al.
Kirschner, Denise E. *see* Arciero, J. C. et al., 2005c:92016
Klein, John P. *see* Bhattacharyya, Mouchumi
Koizumi, Shunzo *see* Yamada, Masahiko et al.
Komarova, N. L. *see* Iwasa, Yoh et al.
Komba, Mitsuhiro *see* Marée, Athanasius F. M. et al.
Krinskiĭ, V. I. *see* Takagi, Seiji et al.
Krogh-Madsen, T. (*with* Glass, Leon; Doedel, Eusebius; Guevara, Michael R.) Apparent discontinuities in the phase-resetting response of cardiac pacemakers. (English summary)
Krueger, Gerhard R. F. *see* Wang, Guanyu, 2005k:92031
Kuang, Yang (*with* Nagy, John D.; Elser, James J.) Biological stoichiometry of tumor dynamics: mathematical models and analysis. (English summary) 2005b:92020
Kuri-Morales, Angel Fernando (*with* Ortiz-Posadas, Martha R.) Classification methods using neural networks and partial precedence algorithms for differential medical diagnosis: a case study. (English summary) (*see* 2005g:65008)
Kurt, Robert A. *see* Allison, E. et al., 2005b:92019
Kvalheim, Gunnar *see* Østby, Ivar et al.
Kwon, Hee-Dae *see* Adams, Brian Michael et al., 2005k:92025
Łabęcki, Marek *see* Marée, Athanasius F. M. et al.
Lai, Ying-Cheng (*with* Harrison, Mary Ann F.; Frei, Mark G.; Osorio, Ivan) Controlled test for predictive power of Lyapunov exponents: their inability to predict epileptic seizures. (English summary)
Langer, Mark P. *see* Preciado-Walters, Felisa et al.
Łędzewicz-Kowalewska, Urszula (*with* Schättler, Heinz) Controlling a model for bone marrow dynamics in cancer chemotherapy. (English summary) 2005k:92029
Lehn, Frank (*with* Hofer, Eberhard P.) A time-delay approach for modeling chronic radiation injury dynamics. (English summary)
Lemaire, Vincent (*with* Tobin, Frank L.; Greller, Larry D.; Cho, Carolyn R.; Suva, Larry J.) Modeling the interactions between osteoblast and osteoclast activities in bone remodeling. (English summary)
Lewis, C. E. *see* Franks, S. J. et al.
Li, Natasha K. *see* Moore, Helen
Liu, Tian (*with* Zhao, Wei; Tian, Lili; Wu, Rongling) An algorithm for molecular dissection of tumor progression. (English summary) 2005k:92030
Loeffler, M. *see* Scholz, Markus et al.
Loskutov, A. Yu. (*with* Rybalko, Sergei; Zhuchkova, Ekaterina) A model of cardiac tissue as an excitable medium with two interacting pacemakers having refractory time. (English summary) (*see* 2005a:92003)
— (*with* Rybalko, Sergei; Zhuchkova, Ekaterina) Model of cardiac tissue as a conductive system with interacting pacemakers and refractory time. (English summary)
Luan, Shuang *see* Chen, Danny Z. et al., 2005m:92016
Lyles, Danielle *see* Tien, Joseph H. et al.
Lyubimov, G. A. *see* Bauer, S. M. et al.
Ma, Jin Wen *see* Deng, Lin et al.
MacArthur, Ben D. (*with* Please, Colin P.) Residual stress generation and necrosis formation in multi-cell tumour spheroids. (English summary) 2005g:92018
Maini, Philip K. *see* Alarcón, T. et al.
Marée, Athanasius F. M. (*with* Komba, Mitsuhiro; Dyck, Cheryl; Łabęcki, Marek; Finegood, Diane T.; Edelstein-Keshet, Leah) Quantifying macrophage defects in type 1 diabetes. (English summary)
Marshall, Elaine S. *see* Basse, Britta et al., 2005g:92017
Martsenyuk, Vasil' P. Qualitative analysis of human cells dynamics: stability, periodicity, bifurcations, control problems. (*see* 2005h:00012)
— On the problem of choosing a chemotherapy treatment from the point of view of control theory. (Russian. English, Russian and Ukrainian summaries)
— Construction and investigation of the stability of an antitumor immunity model. (Russian. English and Ukrainian summaries) 2005m:92017
Masoud, Salem A. An efficient method for the multivariate LAD regression and multi-response permutation procedures applied to nature of chemical and overt diabetes. (English summary)
McDougall, S. R. *see* Stéphanou, A. et al.
McElwain, D. L. S. *see* Araujo, R. P., 2005d:92008
Mercan, Şule *see* Çuvalcioğlu, Gökhan
Michor, Franziska *see* Iwasa, Yoh et al.
Montgomery, Erwin B., Jr. Dynamically coupled, high-frequency reentrant, non-linear oscillators embedded in scale-free basal ganglia-thalamic-cortical networks mediating function and deep brain stimulation effects. (English summary)
Moore, Helen (*with* Li, Natasha K.) A mathematical model for chronic myelogenous leukemia (CML) and T cell interaction. (English summary)
Morgenthaler, Stephan (*with* Herrero, Pablo; Thilly, William G.) Multistage carcinogenesis and the fraction at risk. (English summary) 2005h:92013
Munk, Ole Lajord (*with* Keiding, Susanne; Bass, Ludvik) Capillaries within compartments: microvascular interpretation of dynamic positron emission tomography data. (English summary)
Nagy, John D. The ecology and evolutionary biology of cancer: a review of mathematical models of necrosis and tumor cell diversity. (English summary) 2005m:92018
— *see also* Kuang, Yang et al., 2005b:92020
Nikolski, Vladimir Pavlovich *see* Takagi, Seiji et al.
Nowak, Martin A. *see* Iwasa, Yoh et al.
Oda, Yasutomo *see* Yamada, Masahiko et al.
Ødegård, Å. *see* Bounaïm, A. et al., (2005g:65009) *and* (2005m:00007)
d'Onofrio, Alberto (*with* Gandolfi, Alberto[1]) Tumour eradication by antiangiogenic therapy: analysis and extensions of the model by Hahnfeldt et al. (1999). (English summary)
Ortiz-Posadas, Martha R. *see* Kuri-Morales, Angel Fernando, (2005g:65008)
Osorio, Ivan *see* Lai, Ying-Cheng et al.
Østby, Ivar (*with* Kvalheim, Gunnar; Rusten, Leiv S.; Grøttum, Per) Mathematical modeling of granulocyte reconstitution after high-dose chemotherapy with stem cell support: effect of post-transplant G-CSF treatment. (English summary)
Ovsyshcher, I. E. *see* Friedman, Menahem et al.
Pacheco, M. T. T. *see* Biswas, Pradip K.
Pamuk, Serdal Steady-state analysis of a mathematical model for capillary network formation in the absence of tumor source. (English summary) 2005a:92027
Pardalos, Panos M. (*with* Chaovalitwongse, Wanpracha; Iasemidis, Leonidas D.; Sackellares, J. Chris; Shiau, Deng-Shan; Carney, Paul R.; Prokopyev, Oleg Alexan; Yatsenko, V. A.) Seizure warning algorithm based on optimization and nonlinear dynamics. (English summary) 2005f:92011
— *see also* Yatsenko, V. A. et al.
Paydarfar, David *see* Forger, Daniel B.
Pazó, D. *see* Takagi, Seiji et al.
Pei, Jian *see* Deng, Lin et al.
Peper, Abraham A theory of drug tolerance and dependence. I. A conceptual analysis. (English summary)
— A theory of drug tolerance and dependence. II. The mathematical model. (English summary)
Pertsov, A. M. *see* Zaritski, Roman M., (2005m:00008)
Petushi, Sokol P. *see* Tözeren, Aydin et al.
Pevtsov, S. E. *see* Hoffmann, Clemens et al.
Please, Colin P. *see* MacArthur, Ben D., 2005g:92018
Popel, Aleksander S. (*with* Johnson, Paul C.) Microcirculation and hemorheology. (English summary) (*see* 2005h:76002)
Popov, A. M. *see* Hoffmann, Clemens et al.
Poyatos, Juan F. (*with* Carnero, Amancio) Non-neutral role of replicative senescence in tissue homeostasis and tumorigenesis. (English summary)
Preciado-Walters, Felisa (*with* Rardin, Ronald; Langer, Mark P.; Thai, Van) A coupled column generation, mixed integer approach to optimal planning of intensity modulated radiation therapy for cancer. (English summary)
Preziosi, Luigi Modelling tumour growth and progression. (*see* 2005a:00022)
— Mathematical models used in cancer research. (Italian. English and Italian summaries)
Prokopyev, Oleg Alexan *see* Pardalos, Panos M. et al., 2005f:92011 *and* Yatsenko, V. A. et al.
Pumir, Alain *see* Takagi, Seiji et al.
Rabinovitch, Avinoam *see* Gutman, M. et al., 2005k:92028 *and* Friedman, Menahem et al.
Ranmar, D. O. *see* Vainstein, Vladimir et al.
Rappel, Wouter-Jan *see* Fenton, Flavio H. et al.
Rardin, Ronald *see* Preciado-Walters, Felisa et al.
Regirer, S. A. *see* Bykova, A. A.
Remmers, John E. *see* Topor, Zbigniew L. et al.
Rusten, Leiv S. *see* Østby, Ivar et al.
Rybalko, Sergei *see* Loskutov, A. Yu. et al., (2005a:92003)
Sackellares, J. Chris *see* Pardalos, Panos M. et al., 2005f:92011 *and* Yatsenko, V. A. et al.
Schättler, Heinz *see* Łędzewicz-Kowalewska, Urszula, 2005k:92029
Scholz, Markus (*with* Engel, Christoph; Loeffler, M.) Modelling human granulopoiesis under polychemotherapy with G-CSF support. (English summary)
Schwiegerling, Jim Gaussian weighting of ocular wave-front measurements. (English summary)

Shainheit, M. *see* **Allison, E. et al., 2005b:92019**
Shiau, Deng-Shan *see* **Pardalos, Panos M. et al., 2005f:92011**
Shoham, M. *see* **Vainstein, Vladimir et al.**
Sicam, Victor Arni D. P. (*with* Coppens, Joris; van den Berg, Tom J. T. P.; van der Heijde, Rob G. L.) Corneal surface reconstruction algorithm that uses Zernike polynomial representation. (English summary)
Simó, A. *see* **Ibáñez, M. V.**
Sinisgalli, C. *see* **Bertuzzi, Alessandro et al., 2005m:92015**
Song, Baojun[1] *see* **Castillo-Chavez, Carlos, 2005k:92027** *and* **Jones, Michael A. et al.**
Sontag, Laura (*with* Axelrod, David E.) Evaluation of pathways for progression of heterogeneous breast tumors. (English summary)
Spencer, Sabrina L. (*with* Berryman, Matthew J.; García, José A.; Abbott, Derek) An ordinary differential equation model for the multistep transformation to cancer. (English summary)
Stanley, H. Eugene *see* **Ivanov, Plamen Ch. et al.**
Stengel, Robert F. (*with* Ghigliazza, Raffaele) Stochastic optimal therapy for enhanced immune response. (English summary)
Stéphanou, A. (*with* McDougall, S. R.; Anderson, Alexander R. A.; Chaplain, Mark A. J.) Mathematical modelling of flow in 2D and 3D vascular networks: applications to anti-angiogenic and chemotherapeutic drug strategies. (English summary)
Su, Xuanming (*with* Zenios, Stefanos A.) Patient choice in kidney allocation: A sequential stochastic assignment model. (English summary)
Sun, Shan Cai Study of stress equations of plasma *cortisol* stress variables and physiologic description with a type behaviors stress measurement model. (Chinese. English and Chinese summaries)
Suva, Larry J. *see* **Lemaire, Vincent et al.**
Sveshnikov, Alekseĭ Georgievich *see* **Erëmin, Yu. A.**
Taccardi, Bruno *see* **Colli Franzone, Piero et al., 2005a:92024**
Takagi, Seiji (*with* Pumir, Alain; Pazó, D.; Efimov, I.; Nikolski, Vladimir Pavlovich; Krinskiĭ, V. I.) A physical approach to remove anatomical reentries: a bidomain study. (English summary)
Thai, Van *see* **Preciado-Walters, Felisa et al.**
Thilly, William G. *see* **Morgenthaler, Stephan et al., 2005h:92013**
Thomas, Diana M. *see* **Jones, Michael A. et al.**
Thomenius, K. *see* **Bounaïm, A. et al., (2005g:65009)**
Tian, Lili *see* **Liu, Tian et al., 2005k:92030**
Tien, Joseph H. (*with* Lyles, Danielle; Zeeman, Mary Lou) A potential role of modulating inositol 1, 4, 5-trisphosphate receptor desensitization and recovery rates in regulating ovulation. (English summary)
Timischl-Teschl, Susanne *see* **Batzel, Jerry J. et al., 2005k:92026**
Titcombe, Michèle S. (*with* Edwards, Roderick; Beuter, Anne) Mathematical modelling of Parkinsonian tremor. (English summary)
Tobin, Frank L. *see* **Lemaire, Vincent et al.**
Topor, Zbigniew L. (*with* Vasilakos, Konstantinon; Remmers, John E.) Interaction of two chemoreflex loops in determining ventilatory stability. (English summary)
Tovstik, P. E. *see* **Bauer, S. M. et al.**
Tözeren, Aydin (*with* Coward, Charles W.; Petushi, Sokol P.) Origins and evolution of cell phenotypes in breast tumors. (English summary)
Tran, Hien T. *see* **Adams, Brian Michael et al., 2005k:92025**
Tsumoto, Shusaku Extraction of structure of medical diagnosis from clinical data. (English summary) **2005a:92028**
Tveito, Aslak *see* **Bounaïm, A. et al., (2005g:65009)**
Underwood, J. C. E. *see* **Franks, S. J. et al.**
Vainstein, Vladimir (*with* Ginosar, Y.; Shoham, M.; Ranmar, D. O.; Ianovski, A.; Agur, Z.) The complex effect of granulocyte colony-stimulating factor on human granulopoiesis analyzed by a new physiologically-based mathematical model. (English summary)
Vasilakos, Konstantinon *see* **Topor, Zbigniew L. et al.**
Voelker, Meta M. *see* **Ferris, Michael C.**
Wake, Graeme *see* **Basse, Britta et al., 2005g:92017**
Wall, David J. N. *see* **Basse, Britta et al., 2005g:92017**
Wang, Guanyu (*with* Krueger, Gerhard R. F.) A general mathematical method for investigating the thymic microenvironment, thymocyte development, and immunopathogenesis. (English summary) **2005k:92031**
Waters, S. L. *see* **Cummings, Linda Jane et al., 2005d:92009**
Wattis, Jonathan A. D. *see* **Cummings, Linda Jane et al., 2005d:92009**
Wu, Rongling *see* **Liu, Tian et al., 2005k:92030**
Wu, Xiaodong[1] *see* **Chen, Danny Z. et al., 2005m:92016**
Xie, Fagen *see* **Cassia-Moura, R. et al.**
Xie, Tian Fa (*with* Zhang, Zhong Zhan) Identifiability of models for clinical trials with noncompliance. (English summary)
Yamada, Masahiko (*with* Yamashita, Tomoko; Oda, Yasutomo; Emura, Sei; Yamashiro, Seiji; Koizumi, Shunzo) Nonlinear measures of heart beat intervals differ in female patients with chest pain. (English summary)
Yamashiro, Seiji *see* **Yamada, Masahiko et al.**
Yamashita, Tomoko *see* **Yamada, Masahiko et al.**
Yatsenko, V. A. (*with* Sackellares, J. Chris; Pardalos, Panos M.; Carney, Paul R.; Prokopyev, Oleg Alexan) Geometric models, fiber bundles and biomedical applications. (English summary)
— *see also* **Pardalos, Panos M. et al., 2005f:92011**
Yu, Cedric X. *see* **Chen, Danny Z. et al., 2005m:92016**
Zaritski, Roman M. (*with* Pertsov, A. M.) Simulation of 2-D spiral wave interactions on a Pentium-based cluster. (English summary) (*see* **2005m:00008**)
Zeeman, Mary Lou *see* **Tien, Joseph H. et al.**
Zenios, Stefanos A. *see* **Su, Xuanming**
Zhang, Zhong Zhan *see* **Xie, Tian Fa**
Zhao, Wei *see* **Liu, Tian et al., 2005k:92030**
Zhuchkova, Ekaterina *see* **Loskutov, A. Yu. et al., (2005a:92003)**

Items with secondary classifications in 92C50

Ahuja, Ravindra K. (*with* Hamacher, Horst W.) A network flow algorithm to minimize beam-on time for unconstrained multileaf collimator problems in cancer radiation therapy. (English summary)
— *see also* **Romeijn, H. Edwin et al., 2005m:90175**
Aitchison, John (*with* Kay, Jim W.; Lauder, Ian J.) ★ Statistical concepts and applications in clinical medicine.
Alarcón, T. (*with* Byrne, Helen M.; Maini, Philip K.) A mathematical model of the effects of hypoxia on the cell-cycle of normal and cancer cells. (English summary)
Andreucci, Daniele (*with* Herrero, M. A.; Velázquez, J. J. L.) On the growth of filamentary structures in planar media. (English summary) **2005g:35168**
Anguige, K. (*with* King, John Robert; Ward, John Peter; Williams, Paul) Mathematical modelling of therapies targeted at bacterial quorum sensing. (English summary) **2005k:92022**
Azar, Fred S. (*with* Metaxas, Dimitris N.; Schnall, Mitchell D.) Methods for modeling and predicting mechanical deformations of the breast under external perturbations. (*see* **2005e:92001**)
Balakrishnan, Janaki Self-tuning to the Hopf bifurcation in fluctuating systems. (English summary) **2005h:37108**
Bartels, John *see* **Clermont, Gilles et al., (2005i:62003)**
Belhadj, Mohamed[2] (*with* Gerbeau, J.-F.; Perthame, Benoît) A multiscale colloid transport model with anisotropic degenerate diffusion. (English summary) **2005f:35160**
Berenfeld, Omer *see* **Jalife, José**
Bertuzzi, Alessandro (*with* Fasano, Antonio; Gandolfi, Alberto[1]) A free boundary problem with unilateral constraints describing the evolution of a tumor cord under the influence of cell killing agents. (English summary) **2005m:35315**
Biktashev, Vadim N. A simplified model of propagation and dissipation of excitation fronts. (English summary) **2005a:35153**
— *see also* **Suckley, Rebecca, 2005a:37169**
Billat, Véronique L. *see* **Wesfreid, Eva et al.**
Boahen, Kwabena A. *see* **Zaghloul, Kareem A.**
Boginski, Vladimir L. *see* **Pardalos, Panos M. et al.**
Bohnen, Nicolaas I. (*with* Buliga, Marius G.; Constantine, Gregory M.) Classifying the state of Parkinsonism by using electronic force platform measures of balance. (English summary) **2005i:62154**
Bonnet, Catherine (*with* Partington, Jonathan R.; Sorine, Michel) A modified matching pursuit algorithm applied to the approximation of vecto-cardiogram data. (English summary)
Brebbia, C. A. *see* **Poljak, D. et al., (2005d:65006)**
Buliga, Marius G. *see* **Bohnen, Nicolaas I. et al., 2005i:62154**
Byrne, Helen M. *see* **Alarcón, T. et al.**
Cai, Xiao-Chuan *see* **Murillo, Maria, 2005f:65123**
Camacho, Erika (*with* Rand, Richard H.; Howland, Howard) Dynamics of two van der Pol oscillators coupled via a bath. (English summary) **2005a:34051**
Cameron, David Allan *see* **Turner, Stephen et al.**
Carney, Paul R. *see* **Pardalos, Panos M. et al.**
Čelechovská, Lenka A simple mathematical model of the human liver. (English summary) **2005c:93028**
Chaovalitwongse, Wanpracha *see* **Pardalos, Panos M. et al.**
Chechkin, G. A. (*with* Chechkina, T. P.) On the homogenization of problems of "Infusoria" type. (Russian. Russian summary) **2005d:35016**
Chechkina, T. P. *see* **Chechkin, G. A., 2005d:35016**
Chen, Danny Z. (*with* Hu, Xiaobo S.; Luan, Shuang; Wu, Xiaodong[1]; Yu, Cedric X.) Optimal terrain construction problems and applications in intensity-modulated radiation therapy. (English summary) (*see* **2005c:68002**)
— (*with* Hu, Xiaobo S.; Luan, Shuang; Wang, Chao[3]; Wu, Xiaodong[1]) Geometric algorithms for static leaf sequencing problems in radiation therapy. (English summary) **2005d:52024**
Chen, Lan Sun *see* **Dou, Jiawei et al., 2005b:34021**
Cherruault, Yves *see* **Hebri, B., 2005d:15020**
Chow, Carson C. *see* **Clermont, Gilles et al., (2005i:62003)**
Clarke, P. G. H. *see* **Kohli, R. et al., 2005e:92007**
Clermont, Gilles (*with* Chow, Carson C.; Constantine, Gregory M.; Vodovotz, Yoram; Bartels, John) Mathematical and statistical modeling of acute inflammation. (English summary) (*see* **2005i:62003**)
Colli Franzone, Piero (*with* Pavarino, Luca F.) A parallel solver for reaction-diffusion systems in computational electrocardiology. (English summary) **2005e:65141**
Constantine, Gregory M. *see* **Bohnen, Nicolaas I. et al., 2005i:62154** *and* **Clermont, Gilles et al., (2005i:62003)**
Conte, Elio (*with* Todarello, Orlando; Federici, Antonio; Vitiello, Francesco; Lopane, Michele; Khrennikov, Andrei Yu.) A preliminary evidence of quantum like behavior in measurements of mental states. (English summary) (*see* **2005h:81006**)
Corrias, L. (*with* Perthame, Benoît; Zaag, Hatem) Global solutions of some chemotaxis and angiogenesis systems in high space dimensions. (English summary) **2005f:35135**
Crawford, Gregory S. (*with* Shum, Matthew) Uncertainty and learning in pharmaceutical demand. (English summary) **2005m:91042**
Deeds, Eric J. *see* **Tannenbaum, Emmanuel et al., 2005f:92016**
Degiorgis, Piero Giorgio *see* **Guiot, Caterina et al.**
Deisboeck, Thomas S. *see* **Guiot, Caterina et al.**
Delsanto, Pier Paolo *see* **Guiot, Caterina et al.**
Dempsey, James F. *see* **Romeijn, H. Edwin et al., 2005m:90175**
Desper, Richard (*with* Khan, Javed; Schäffer, Alejandro A.) Tumor classification using phylogenetic methods on expression data. (English summary)
Deuflhard, Peter *see* **Hochmuth, Reinhard, 2005g:80006**
Díaz Díaz, Jesús Ildefonso (*with* Tello, José Ignacio) Mathematical analysis of a simple model for the growth of necrotic tumors in presence of inhibitors. (English summary) **2005f:92003**
— (*with* Tello, José Ignacio) Mathematical analysis, controllability and numerical simulation of a simple model of avascular tumor growth. **2005f:92004**
Dou, Jiawei (*with* Chen, Lan Sun; Li, Kai Tai) A monotone-iterative method for finding periodic solutions of an impulsive competition system on tumor-normal cell interaction. (English summary) **2005b:34021**

Edwards, S. F. *see* **Srivastava, Vipin**

Fang, Ji-Qian (*with* Hao, Yuantao) Quality of life: issues concerning assessment and analysis. (*see* **2005c:62003**)

Fasano, Antonio *see* **Bertuzzi, Alessandro et al., 2005m:35315**

Federici, Antonio *see* **Conte, Elio et al., (2005h:81006)**

Feng, Ping[3] (*with* Kelly, Colleen) An extension of the model free test to test synergy in multiple drug combinations. (English summary)

Ferris, Michael C. (*with* Zhang, Yin[1]) Foreword: Special issue on mathematical programming in biology and medicine.

Figueiredo, Isabel (*with* Trabucho, Luis) Asymptotic model of a nonlinear adaptive elastic rod. (English summary) **2005g:74076**

Fischer, Bernd[1] (*with* Ludwig, Martin; Meister, Andreas[2]) The thermoregulation of infants: modeling and numerical simulation. (English summary) **2005b:65094**

Foryś, Urszula (*with* Kolev, Mikhail) Time delays in proliferation and apoptosis for solid avascular tumour. (English summary) **2005b:35148**

Frank, Steven A. *see* **Michor, Franziska et al.**

Franks, S. J. *see* **King, John Robert, 2005f:35137**

Frieden, B. Roy ★ Science from Fisher information. **2005f:81048**

Friedman, Avner (*with* Lolas, Georgios) Analysis of a mathematical model of tumor lymphangiogenesis. (English summary) **2005j:35088**

Gabriel, J.-P. *see* **Kohli, R. et al., 2005e:92007**

Gabriele, Pietro *see* **Guiot, Caterina et al.**

Gambino, G. (*with* Greco, Antonio M.; Lombardo, Maria Carmela) A group analysis via weak equivalence transformations for a model of tumour encapsulation. (English summary) **2005a:35016**

Gandolfi, Alberto[1] *see* **Bertuzzi, Alessandro et al., 2005m:35315**

Gerbeau, J.-F. *see* **Belhadj, Mohamed[2] et al., 2005f:35160**

Greco, Antonio M. *see* **Gambino, G. et al., 2005a:35016**

Guiot, Caterina (*with* Degiorgis, Piero Giorgio; Delsanto, Pier Paolo; Gabriele, Pietro; Deisboeck, Thomas S.) Does tumor growth follow a "universal law"? (English summary)

Hamacher, Horst W. *see* **Ahuja, Ravindra K.**

Han, Mao An *see* **Song, Yong Li et al., 2005h:37109**

Hao, Yuantao *see* **Fang, Ji-Qian, (2005c:62003)**

Hayakawa, Carole K. (*with* Spanier, Jerome) Perturbation Monte Carlo methods for the solution of inverse problems. (English summary) (*see* **2005b:65002**)

Hebri, B. (*with* Cherruault, Yves) Contribution to the identification of linear compartmental systems. (English summary) **2005d:15020**

Herrero, M. A. *see* **Andreucci, Daniele et al., 2005g:35168**

Hochmuth, Reinhard (*with* Deuflhard, Peter) Multiscale analysis for the bio-heat transfer equation—the nonisolated case. (English summary) **2005g:80006**

van Houwelingen, J. C. *see* **Wintrebert, Claire M. A. et al.**

Howland, Howard *see* **Camacho, Erika et al., 2005a:34051**

Hu, Xiaobo S. *see* **Chen, Danny Z. et al., 2005d:52024** *and* **(2005c:68002)**

Iwasa, Yoh *see* **Michor, Franziska et al.**

Jalife, José (*with* Berenfeld, Omer) Molecular mechanisms and global dynamics of fibrillation: an integrative approach to the underyling basis of vortex-like reentry. (English summary)

Kajiwara, Tsuyoshi (*with* Sasaki, Toru[1]) A note on the stability analysis of pathogen-immune interaction dynamics. (English summary) **2005b:34100**

Kay, Jim W. *see* **Aitchison, John et al.**

Keenan, Daniel M. (*with* Shorter, Paula A.) Simulation by diffusion on a manifold with boundary: applications to ultrasonic prenatal medical imaging. (English summary) **2005b:92021**

Keener, James P. The topology of defibrillation. (English summary)

Kelly, Colleen *see* **Feng, Ping[3]**

Khadzhiivanov, Nikolaĭ G. Plastic surgery and combinatorial topology. (Bulgarian. English and Bulgarian summaries) (*see* **2005f:00011**)

Khan, Javed *see* **Desper, Richard et al.**

Khrennikov, Andrei Yu. A model of the process of thinking based on the dynamics of bundles of branches and sets of bundles of p-adic trees. **2005a:37168**

— *see also* **Conte, Elio et al., (2005h:81006)**

King, John Robert (*with* Franks, S. J.) Mathematical analysis of some multi-dimensional tissue-growth models. (English summary) **2005f:35137**

— *see also* **Anguige, K. et al., 2005k:92022**

Kohli, R. (*with* Gabriel, J.-P.; Clarke, P. G. H.) Mathematical analysis of competition between sensory ganglion cells for neurotrophic factor in the skin. (English summary) **2005e:92007**

Kolev, Mikhail *see* **Foryś, Urszula, 2005b:35148**

Kovac, N. *see* **Poljak, D. et al., (2005d:65006)**

Krause, Ulrich (*with* Pituk, Mihály) Boundedness and stability for higher order difference equations. (English summary) **2005b:39023**

Kumar, Arvind[2] *see* **Romeijn, H. Edwin et al., 2005m:90175**

Lai, Dejian *see* **Zhang, Jinxin et al., (2005c:62003)**

Lauder, Ian J. *see* **Aitchison, John et al.**

Laurie, H. (*with* Penne, R.) Projective geometry of human motion, with an application to injury risk. (English summary) **2005i:51014**

Leach, P. G. L. *see* **Moyo, Sibusio**

Łędzewicz-Kowalewska, Urszula (*with* Schättler, Heinz) Controlling the bone marrow dynamics in cancer chemotherapy. (English summary) (*see* **2005i:00016**)

Li, Jian Li[1] Cost-effectiveness analysis and evidence-based medicine. (*see* **2005c:62003**)

Li, Kai Tai *see* **Dou, Jiawei et al., 2005b:34021**

Lolas, Georgios *see* **Friedman, Avner, 2005j:35088**

Lombardo, Maria Carmela *see* **Gambino, G. et al., 2005a:35016**

Lopane, Michele *see* **Conte, Elio et al., (2005h:81006)**

Lowengrub, John *see* **Macklin, Paul, 2005g:65155**

Lu, Ying (*with* Zhao, Shoujun) Statistics used in quality control, quality assurance, and quality improvement in radiological studies. (*see* **2005c:62003**)

Luan, Shuang *see* **Chen, Danny Z. et al., 2005d:52024** *and* **(2005c:68002)**

Luckhaus, Stephan (*with* Triolo, Livio) The continuum reaction-diffusion limit of a stochastic cellular growth model. (English summary)

Ludwig, Martin *see* **Fischer, Bernd[1] et al., 2005b:65094**

Macklin, Paul (*with* Lowengrub, John) Evolving interfaces via gradients of geometry-dependent interior Poisson problems: application to tumor growth. (English summary) **2005g:65155**

Maini, Philip K. *see* **Alarcón, T. et al.**

Martsenyuk, Vasil' P. On the Hopf bifurcation and periodic solutions in the immune defence model of G. I. Marchuk. (Russian. English, Russian and Ukrainian summaries) **2005h:34197**

May, Robert M. *see* **Michor, Franziska et al.**

Meister, Andreas[2] *see* **Fischer, Bernd[1] et al., 2005b:65094**

Metaxas, Dimitris N. *see* **Azar, Fred S. et al., (2005e:92001)**

Meyer, Yves *see* **Wesfreid, Eva et al.**

Michor, Franziska (*with* Frank, Steven A.; May, Robert M.; Iwasa, Yoh; Nowak, Martin A.) Somatic selection for and against cancer. (English summary)

Moyo, Sibusio (*with* Leach, P. G. L.) Symmetry methods applied to a mathematical model of a tumour of the brain. (English summary)

Murillo, Maria (*with* Cai, Xiao-Chuan) A fully implicit parallel algorithm for simulating the non-linear electrical activity of the heart. (English summary) **2005f:65123**

Nowak, Martin A. *see* **Michor, Franziska et al.**

Østby, Ivar (*with* Winther, Ragnar) Stability of a model of human granulopoiesis using continuous maturation. (English summary) **2005f:92038**

Pardalos, Panos M. (*with* Boginski, Vladimir L.; Prokopyev, Oleg Alexan; Suharitdamrong, Wichai; Carney, Paul R.; Chaovalitwongse, Wanpracha; Vazacopoulos, Alkis) Optimization techniques in medicine. (English summary)

Partington, Jonathan R. *see* **Bonnet, Catherine et al.**

Pavarino, Luca F. *see* **Colli Franzone, Piero, 2005e:65141**

Peiró, J. *see* **Sherwin, Spencer J., (2005f:65003)**

Penne, R. *see* **Laurie, H., 2005i:51014**

Peratta, Andrés *see* **Poljak, D. et al., (2005d:65006)**

Perthame, Benoît *see* **Corrias, L. et al., 2005f:35135** *and* **Belhadj, Mohamed[2] et al., 2005f:35160**

Pituk, Mihály *see* **Krause, Ulrich, 2005b:39023**

Poljak, D. (*with* Kovac, N.; Samardzioska, T.; Peratta, Andrés; Brebbia, C. A.) Temperature rise in the human body exposed to radiation from base station antennas. (English summary) (*see* **2005d:65006**)

Prokopyev, Oleg Alexan *see* **Pardalos, Panos M. et al.**

Putter, Hein *see* **Wintrebert, Claire M. A. et al.**

Rand, Richard H. *see* **Camacho, Erika et al., 2005a:34051**

Robins, James M. (*with* Rotnitzky, Andrea) Estimation of treatment effects in randomised trials with non-compliance and a dichotomous outcome using structural mean models. (English summary) **2005k:62247**

Romeijn, H. Edwin (*with* Ahuja, Ravindra K.; Dempsey, James F.; Kumar, Arvind[2]) A column generation approach to radiation therapy treatment planning using aperture. (English summary) **2005m:90175**

Roth, Bradley J. Art Winfree and the bidomain model of cardiac tissue. (English summary)

Rotnitzky, Andrea *see* **Robins, James M., 2005k:62247**

Rozza, Gianluigi On optimization, control and shape design of an arterial bypass. (English summary)

Rubio, D. *see* **Troparevsky, M. I., 2005m:78026**

Salem, Shaban Mathematical analysis of probability generating function for two drugs resistance model. (English summary)

Samardzioska, T. *see* **Poljak, D. et al., (2005d:65006)**

Sasaki, Toru[1] *see* **Kajiwara, Tsuyoshi, 2005b:34100**

Schäffer, Alejandro A. *see* **Desper, Richard et al.**

Schättler, Heinz *see* **Łędzewicz-Kowalewska, Urszula, (2005i:00016)**

Schnall, Mitchell D. *see* **Azar, Fred S. et al., (2005e:92001)**

Shakhnovich, Eugene I. *see* **Tannenbaum, Emmanuel et al., 2005f:92016**

Sherratt, Jonathan A. *see* **Turner, Stephen et al.**

Sherwin, Spencer J. (*with* Peiró, J.) Algorithms and arteries: multi-domain spectral/hp methods for vascular flow modelling. (*see* **2005f:65003**)

Shorter, Paula A. *see* **Keenan, Daniel M., 2005b:92021**

Shum, Matthew *see* **Crawford, Gregory S., 2005m:91042**

Sinyakova, O. G. Mathematical modeling methods in problems of estimating the state of an organism (radionuclide diagnostics). (Russian. Russian summary)

Song, Yong Li (*with* Wei, Jun Jie; Han, Mao An) Local and global Hopf bifurcation in a delayed hematopoiesis model. (English summary) **2005h:37109**

Sorine, Michel *see* **Bonnet, Catherine et al.**

Spanier, Jerome *see* **Hayakawa, Carole K., (2005b:65002)**

Srivastava, Vipin (*with* Edwards, S. F.) A mathematical model of capacious and efficient memory that survives trauma. (English summary)

Starosel'tseva, N. G. (*with* Tsukerman, E. V.) On a method for early diagnosis. (Russian) (*see* **2005i:00009**)

Suckley, Rebecca (*with* Biktashev, Vadim N.) The asymptotic structure of the Hodgkin-Huxley equations. (English summary) **2005a:37169**

Suharitdamrong, Wichai *see* **Pardalos, Panos M. et al.**

Talibi Alaoui, Hamad (*with* Yafia, Radouane) Stability and Hopf bifurcation in a haematopoietic stem cells model. (English summary) **2005k:34278**

Tan, Ming Describing data, variability and over-dispersion in medical research. (*see* **2005c:62003**)

Tannenbaum, Emmanuel (*with* Deeds, Eric J.; Shakhnovich, Eugene I.) Semiconservative replication in the quasispecies model. (English summary) **2005f:92016**

Tello, José Ignacio *see* **Díaz Díaz, Jesús Ildefonso, 2005f:92003** *and* **2005f:92004**

Todarello, Orlando *see* **Conte, Elio et al., (2005h:81006)**

Trabucho, Luis *see* **Figueiredo, Isabel, 2005g:74076**

Triolo, Livio *see* **Luckhaus, Stephan**

Troparevsky, M. I. (*with* Rubio, D.) On the weak solutions of the forward problem in EEG. **2005m:78026**

Tsukerman, E. V. *see* **Starosel'tseva, N. G., (2005i:00009)**

Turner, Stephen (*with* Sherratt, Jonathan A.; Cameron, David Allan) Tamoxifen treatment failure in cancer and the nonlinear dynamics of TGF β. (English summary)
Vazacopoulos, Alkis *see* **Pardalos, Panos M. et al.**
Velázquez, J. J. L. *see* **Andreucci, Daniele et al., 2005g:35168**
Vitiello, Francesco *see* **Conte, Elio et al., (2005h:81006)**
Vodovotz, Yoram *see* **Clermont, Gilles et al., (2005i:62003)**
de Vries, Gerda The effect of coupling, noise, and heterogeneity on bursting oscillations. (English summary) **2005k:92021**
Wang, Chao[3] *see* **Chen, Danny Z. et al., 2005d:52024**
Ward, John Peter *see* **Anguige, K. et al., 2005k:92022**
Wehrly, Thomas E. *see* **Yu, Jihnhee**
Wei, Jun Jie *see* **Song, Yong Li et al., 2005h:37109**
Wesfreid, Eva (*with* Billat, Véronique L.; Meyer, Yves) Multifractal analysis of heartbeat time series in human races. (English summary)
Wiens, Douglas P. Robust allocation schemes for clinical trials with prognostic factors. (English summary) **2005f:62118**
Williams, Paul *see* **Anguige, K. et al., 2005k:92022**
(Winfree, Arthur T.) *see* **Roth, Bradley J.**
Winther, Ragnar *see* **Østby, Ivar, 2005f:92038**
Wintrebert, Claire M. A. (*with* Putter, Hein; Zwinderman, Aeilko H.; van Houwelingen, J. C.) Centre-effect on survival after bone marrow transplantation: application of time-dependent frailty models. (English summary)
Wu, Xiaodong[1] *see* **Chen, Danny Z. et al., 2005d:52024** *and* **(2005c:68002)**
Xu, Yongzhi S. Transmitted wave in a poroelastic medium and its application in evaluation of osteoporosis. (English summary) (*see* **2005i:00016**)
Yafia, Radouane *see* **Talibi Alaoui, Hamad. 2005k:34278**
Yu, Cedric X. *see* **Chen, Danny Z. et al., (2005c:68002)**
Yu, Jihnhee (*with* Wehrly, Thomas E.) An approach to the residence time distribution for stochastic multi-compartment models. (English summary)
Zaag, Hatem *see* **Corrias, L. et al., 2005f:35135**
Zaghloul, Kareem A. (*with* Boahen, Kwabena A.) An ON-OFF log domain circuit that recreates adaptive filtering in the retina. (English summary)
Zhang, Jinxin (*with* Zheng, Yingdong; Lai, Dejian) Time series analysis and its applications in medical sciences. (*see* **2005c:62003**)
Zhang, Yin[1] *see* **Ferris, Michael C.**
Zhao, Shoujun *see* **Lu, Ying, (2005c:62003)**
Zheng, Yingdong *see* **Zhang, Jinxin et al., (2005c:62003)**
Zwinderman, Aeilko H. *see* **Wintrebert, Claire M. A. et al.**

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Armspach, J.-P. *see* **Salomon, M. et al.**
Aston, John A. D. (*with* Gunn, Roger N.) Statistical estimation with Kronecker products in positron emission tomography. (English summary) **2005i:92006**
Azar, Fred S. (*with* Metaxas, Dimitris N.; Schnall, Mitchell D.) Methods for modeling and predicting mechanical deformations of the breast under external perturbations. (*see* **2005e:92001**)
Chan, Tony F. C. (*with* Vese, Luminita) Active contour and segmentation models using geometric PDE's for medical imaging. (English summary) (*see* **2005a:92002**)
Chereshnev, V. A. (*with* Mazurov, Vl. D.; Yurchenko, L. N.; Gusev, E. Yu.; Kim, A. V.) Pattern recognition method in medicine. (English summary)
Chiranjivi, G. V. S. (*with* NagChoudhuri, D.) Characterization of human electrocardiogram by analyses of phase attributes. (*see* **2005i:62007**)
Cohen, Laurent D. *see* **Deschamps, T., (2005a:92002)**
Del Lungo, Alberto (*with* Frosini, Andrea; Nivat, Maurice; Vuillon, Laurent) Discrete tomography: reconstruction under periodicity constraints. (English summary) (*see* **2005a:68008**)
Deschamps, T. (*with* Cohen, Laurent D.) Grouping connected components using minimal path techniques. (English summary) (*see* **2005a:92002**)
Duncan, James S. *see* **Papademetris, Xenophon et al., (2005e:92001)**
Elad, A. (*with* Kimmel, Ron) Spherical flattening of the cortex surface. (English summary) (*see* **2005a:92002**)
Faugeras, Olivier *see* **Leventon, Michael et al., (2005a:94002)**
Filipowicz, S. F. *see* **Giza, Z. et al., (2005d:35008)**
Frosini, Andrea *see* **Del Lungo, Alberto et al., (2005a:68008)**
Girtis, Konstantinos G. (*with* Tsihrintzis, George A.) Diffraction tomographic imaging algorithms. III. Angularly limited data. (English summary) **2005e:92021**
Giza, Z. (*with* Filipowicz, S. F.; Sikora, J.) Simulated annealing method in electrical impedance tomography. (English summary) (*see* **2005d:35008**)
Gopakumar, C. *see* **Thomas, Vinu et al., (2005d:47001)**
Grasedyck, Lars *see* **Wolters, C. H. et al.**
Grimson, Eric *see* **Leventon, Michael et al., (2005a:94002)**
Grünbaum, F. Alberto Diffuse tomography as a source of challenging nonlinear inverse problems for a general class of networks. (English summary) (*see* **2005b:94011**)
— (*with* Matusevich, Laura Felicia) A network tomography problem related to the hypercube. (English summary) (*see* **2005d:35007**)
Gunn, Roger N. *see* **Aston, John A. D., 2005i:92006**
Gusev, E. Yu. *see* **Chereshnev, V. A. et al.**
Hackbusch, Wolfgang *see* **Wolters, C. H. et al.**
Han, Xiao[2] (*with* Xu, Chenyang; Prince, Jerry) Topology preserving geometric deformable models for brain reconstruction. (English summary) (*see* **2005a:94002**)
Heitz, Fabrice *see* **Salomon, M. et al.**
Hsieh, Jiang *see* **Wei, Yuchuan et al., 2005k:92033**
Izen, Steven H. (*with* Rohler, David P.; Kasibhatla, Sastry L. A.) Exploiting symmetry in fan beam CT: overcoming third generation undersampling. (English summary) **2005k:92032**
Kasibhatla, Sastry L. A. *see* **Izen, Steven H. et al., 2005k:92032**
Keenan, Daniel M. (*with* Shorter, Paula A.) Simulation by diffusion on a manifold with boundary: applications to ultrasonic prenatal medical imaging. (English summary) **2005b:92021**
Kikinis, Ron *see* **Leventon, Michael et al., (2005a:94002)**
Kim, A. V. *see* **Chereshnev, V. A. et al.**
Kimmel, Ron *see* **Elad, A., (2005a:92002)**
Lamberti, C. *see* **Sarti, Alessandro et al., (2005a:92002)** *and* **(2005a:92002)**
Leventon, Michael (*with* Grimson, Eric; Faugeras, Olivier; Kikinis, Ron; Wells, William, III) Knowledge-based segmentation of medical images. (English summary) (*see* **2005a:94002**)
Liuzzi, Giampaolo (*with* Lucidi, Stefano; Piccialli, Veronica; Sotgiu, Antonello) A magnetic resonance device designed via global optimization techniques. (English summary) **2005f:92012**
Lockett, S. J. *see* **Ortiz de Solorzano, C. et al., (2005a:92002)**
Lu, Ying A review on the principles and methods of automated fingerprint identification. (Chinese. English and Chinese summaries)
Lucidi, Stefano *see* **Liuzzi, Giampaolo et al., 2005f:92012**
Malladi, Ravikanth (*with* Sethian, J. A.) Fast methods for shape extraction in medical and biomedical imaging. (English summary) (*see* **2005a:92002**)
— *see also* **Ortiz de Solorzano, C. et al., (2005a:92002)** *and* **Sarti, Alessandro et al., (2005a:92002)**
Marrosu, Francesco *see* **Santoni, Federico, (2005d:92001)**
Matusevich, Laura Felicia *see* **Grünbaum, F. Alberto, (2005d:35007)**
Mazurov, Vl. D. *see* **Chereshnev, V. A. et al.**
Metaxas, Dimitris N. *see* **Azar, Fred S. et al., (2005e:92001)**
Mikula, Karol *see* **Sarti, Alessandro et al., (2005a:92002)**
Ming, Liang *see* **Xie, Guihai et al., (2005i:42002)**
NagChoudhuri, D. *see* **Chiranjivi, G. V. S., (2005i:62007)**
Nivat, Maurice *see* **Del Lungo, Alberto et al., (2005a:68008)**
Ortiz de Solorzano, C. (*with* Malladi, Ravikanth; Lockett, S. J.) A geometric model for image analysis in cytology. (English summary) (*see* **2005a:92002**)
Papademetris, Xenophon (*with* Škrinjar, Oskar; Duncan, James S.) Recovering displacements and deformations from 3D medical images using biomechanical models. (*see* **2005e:92001**)
Perrin, G.-R. *see* **Salomon, M. et al.**
Piccialli, Veronica *see* **Liuzzi, Giampaolo et al., 2005f:92012**
Prince, Jerry *see* **Han, Xiao[2] et al., (2005a:94002)**
Ramachandran, C. K. *see* **Thomas, Vinu et al., (2005d:47001)**
Rodríguez Asomoza, J. *see* **Rosas Romero, R., (2005b:65003)**
Rohler, David P. *see* **Izen, Steven H. et al., 2005k:92032**
Rosas Romero, R. (*with* Rodríguez Asomoza, J.) Estimation of non-rigid deformations in the three-dimensional space and time domains in medical images. (English summary) (*see* **2005b:65003**)
Salomon, M. (*with* Heitz, Fabrice; Perrin, G.-R.; Armspach, J.-P.) A massively parallel approach to deformable matching of 3D medical images via stochastic differential equations. (English summary)
Santoni, Federico (*with* Marrosu, Francesco) EEG analysis in cerebral death condition using wavelet packet decomposition. (English summary) (*see* **2005d:92001**)
Sarti, Alessandro (*with* Lamberti, C.; Malladi, Ravikanth) Level set models for analysis of 2D and 3D echocardiographic data. (English summary) (*see* **2005a:92002**)
— (*with* Mikula, Karol; Sgallari, F.; Lamberti, C.) Nonlinear multiscale analysis models for filtering of 3D + time biomedical images. (English summary) (*see* **2005a:92002**)
Schnall, Mitchell D. *see* **Azar, Fred S. et al., (2005e:92001)**
Sethian, J. A. *see* **Malladi, Ravikanth, (2005a:92002)**
Sgallari, F. *see* **Sarti, Alessandro et al., (2005a:92002)**
Shorter, Paula A. *see* **Keenan, Daniel M., 2005b:92021**
Sikora, J. *see* **Giza, Z. et al., (2005d:35008)**
Škrinjar, Oskar *see* **Papademetris, Xenophon et al., (2005e:92001)**
Sotgiu, Antonello *see* **Liuzzi, Giampaolo et al., 2005f:92012**
Thomas, Tessamma *see* **Thomas, Vinu et al., (2005d:47001)**
Thomas, Vinu (*with* Gopakumar, C.; Ramachandran, C. K.; Thomas, Tessamma) Detection of micro-calcifications in mammograms using wavelet transforms. (English summary) (*see* **2005d:47001**)
Tohka, Jussi Global deformable surface optimization using adaptive constraints and penalties. (English summary)
Tsihrintzis, George A. *see* **Girtis, Konstantinos G., 2005e:92021**
Vese, Luminita *see* **Chan, Tony F. C., (2005a:92002)**
Vuillon, Laurent *see* **Del Lungo, Alberto et al., (2005a:68008)**
Wang, Ge *see* **Wei, Yuchuan et al., 2005k:92033**
Wang, Li Sheng[3] (*with* Xu, Zong Ben) Review on PDE-based image processing techniques and their applications in biomedical images analysis. (Chinese. English and Chinese summaries)
Wang, Yinlon *see* **Xie, Guihai et al., (2005i:42002)**
Wei, Yuchuan (*with* Wang, Ge; Hsieh, Jiang) An intuitive discussion on the ideal ramp filter in computed tomography. I. (English summary) **2005k:92033**
Wells, William, III *see* **Leventon, Michael et al., (2005a:94002)**
Wolters, C. H. (*with* Grasedyck, Lars; Hackbusch, Wolfgang) Efficient computation of lead field bases and influence matrix for the FEM-based EEG and MEG inverse problem. (English summary)
Wu, Xiaodong[1] Segmenting doughnut-shaped objects in medical images. (English summary) (*see* **2005c:68004**)
Xie, Guihai (*with* Wang, Yinlon; Ming, Liang) The application research of wavelet analysis in medical image processing. (English summary) (*see* **2005i:42002**)
Xu, Chenyang *see* **Han, Xiao[2] et al., (2005a:94002)**
Xu, Zong Ben *see* **Wang, Li Sheng[3]**
Yurchenko, L. N. *see* **Chereshnev, V. A. et al.**

Items with secondary classifications in 92C55

Albano, A. M. *see* **Rapp, P. E. et al.**
Alpers, Andreas (*with* Gritzmann, Peter; Thorens, Lionel) Stability and instability in discrete tomography. (English summary) (*see* **2005j:68006**)
Balogh, Emese *see* **Kuba, Attila et al., 2005b:68277**

Baras, John S. (*with* Berenstein, Carlos A.; Gavilánez, Franklin) Continuous and discrete inverse conductivity problems. (English summary) **2005g:35294**

Barnett, Alex H. A fast numerical method for time-resolved photon diffusion in general stratified turbid media. (English summary)

Berenstein, Carlos A. *see* **Baras, John S. et al., 2005g:35294**

Bison, Georg (*with* Wynands, Robert; Weis, Antoine) Optimization and performance of an optical cardiomagnetometer. (English summary)

Boman, Jan (*with* Strömberg, Jan-Olov) Novikov's inversion formula for the attenuated Radon transform—a new approach. (English summary) **2005d:44002**

Borden, Brett *see* **Natterer, Frank et al., 2005a:78020**

Brezinski, Mark E. *see* **Liu, Bin[9] et al.**

Brunetti, Sara (*with* Daurat, Alain) Stability in discrete tomography: some positive results. (English summary) **2005j:90043**

Bukhgeim, A. A. (*with* Kazantsev, S. G.) Numerical methods in tensor and emission tomography for divergent beam geometry. (English summary) (*see* **2005i:65006**)

Bulyshev, A. E. (*with* Souvorov, A. E.; Semenov, S. Yu.; Posukh, V. G.; Sizov, Y. E.) Three-dimensional vector microwave tomography: theory and computational experiments. (English summary) **2005c:78034**

Cai, Zhijie *see* **Gu, Fanji et al.**

Cao, Yang[3] *see* **Gu, Fanji et al.**

Ceccio, Steven L. *see* **Huang, Cunkui et al., 2005d:35269**

Cellucci, C. J. *see* **Rapp, P. E. et al.**

Chalmond, Bernard ★ Eléments de modélisation pour l'analyse d'images. (French) [Elements of modelling for image analysis] **2005j:62045**

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Cheney, Margaret *see* **Natterer, Frank et al., 2005a:78020**

(Cheng, Xiuzhen) *see* **Pattern recognition and string matching, 2005b:68003**

Costa, Marie-Christine (*with* de Werra, Dominique; Picouleau, C.; Schindl, D.) A solvable case of image reconstruction in discrete tomography. (English summary) **2005m:68223**

Das, P. C. *see* **Sastry, Challa S., 2005m:65318**

Daurat, Alain *see* **Brunetti, Sara, 2005j:90043**

Defrise, Michel (*with* Noo, Frédéric; Kudo, Hiroyuki) Improved two-dimensional rebinning of helical cone-beam computerized tomography data using John's equation. (English summary) **2005a:78030**

Delfino, L. *see* **Ferrara, G. B. et al.**

Deming, Ross *see* **Perlovskiĭ, L. I.**

Du, Yang (*with* Wang, Dong) Study of two new wavelet templates for medical cephalometric image processing. (English summary) (*see* **2005i:42002**)

Dupont, Florent *see* **Sivignon, Isabelle et al., 2005a:68222**

Emura, Sei *see* **Yamada, Masahiko et al.**

Epstein, Charles L. Magnetic resonance imaging in inhomogeneous fields. (English summary) **2005g:78021**

Erhard, Klaus (*with* Potthast, Roland) The point source method for reconstructing an inclusion from boundary measurements in electrical impedance tomography and acoustic scattering. (English summary) **2005k:35426**

Faridani, Adel Introduction to the mathematics of computed tomography. (English summary) **2005b:44001**

Fedulova, I. A. *see* **Hoffmann, Clemens et al.**

Ferrara, G. B. (*with* Delfino, L.; Masulli, F.; Rovetta, S.; Sensi, R.) A fuzzy approach to image analysis in HLA typing using oligonucleotide microarrays. (English summary)

Finch, David V. The attenuated x-ray transform: recent developments. (English summary) **2005a:44002**

— (*with* Patch, Sarah K.; Rakesh[1]) Determining a function from its mean values over a family of spheres. (English summary) **2005b:35290**

Fine, Alan *see* **Hentschel, H. G. E. et al.**

Fischer, Bernd[1] (*with* Modersitzki, Jan) Large scale problems arising from image registration. (English summary) **2005k:94003**

Fourmont, Karsten Non-equispaced fast Fourier transforms with applications to tomography. (English summary) **2005b:65154**

Garduño, Edgar (*with* Herman, Gabor T.) Optimization of basis functions for both reconstruction and visualization. (English summary) **2005d:65028**

Gavilánez, Franklin *see* **Baras, John S. et al., 2005g:35294**

Glaunès, Joan (*with* Vaillant, Marc; Miller, Michael I.) Landmark matching via large deformation diffeomorphisms on the sphere. (English summary) **2005b:68275**

Grau, Antoni *see* **Staffetti, Ernesto et al., 2005m:68230**

Greenberg, Ronald I. Fast and space-efficient location of heavy or dense segments in run-length encoded sequences (extended abstract). (English summary) (*see* **2005a:05002**)

Gritzmann, Peter *see* **Alpers, Andreas et al., (2005j:68006)**

Gu, Fanji (*with* Shen, Enhua; Meng, Xin; Cao, Yang[3]; Cai, Zhijie) Higher order complexity of time series. (English summary)

Gual-Arnau, Ximo On the volume from planar sections through a curve. (English summary) **2005m:53144**

Haario, H. *see* **Kaipio, Jari P. et al., 2005b:35294**

Harman, Michelle *see* **Liu, Bin[9] et al.**

Hédou-Rouillier, Véronique A finite difference method to solve the forward problem in electroencephalography (EEG). (English summary) **2005a:65113**

Henn, Stefan A Levenberg-Marquardt scheme for nonlinear image registration. (English summary) **2005c:65036**

Hentschel, H. G. E. (*with* Fine, Alan; Pencea, C. S.) Biological computing with diffusion and excitable calcium stores. (English summary)

Herman, Gabor T. *see* **Garduño, Edgar, 2005d:65028**

Hoffmann, Clemens (*with* Popov, A. M.; Pevtsov, S. E.; Fedulova, I. A.) Numerical solution of direct mathematical problems in electroencephalography. (Russian. Russian summary)

Huang, Cunkui (*with* Lee, Jinhee; Schultz, William W.; Ceccio, Steven L.) Singularity image method for electrical impedance tomography of bubbly flows. (English summary) **2005d:35269**

Hyvönen, Nuutti Characterizing inclusions in optical tomography. (English summary) **2005f:35298**

Ji, Lin[3] (*with* McLaughlin, Joyce R.; Renzi, Daniel; Yoon, Jeong-Rock) Interior elastodynamics inverse problems: shear wave speed reconstruction in transient elastography. (English summary) **2005c:35291**

— (*with* McLaughlin, Joyce R.) Recovery of the Lamé parameter μ in biological tissues. (English summary) **2005b:74069**

Jin, Jesse S. Applications of statistical methods in medical imaging. (English summary) (*see* **2005c:62003**)

Jonas, Peter[2] (*with* Louis, A. K.) Phase contrast tomography using holographic measurements. (English summary) **2005c:35292**

Kaipio, Jari P. (*with* Seppänen, A.; Somersalo, Erkki; Haario, H.) Posterior covariance related optimal current patterns in electrical impedance tomography. (English summary) **2005b:35294**

— *see also* **Somersalo, Erkki et al., 2005a:35282**

Kang, Chang Ik *see* **Kim, Kyung Youn et al.**

Kang, Sook In *see* **Kim, Kyung Youn et al.**

Katsevich, Alexander An improved exact filtered backprojection algorithm for spiral computed tomography. (English summary) **2005b:44002**

— Stability estimates for helical computer tomography. (English summary) **2005m:46061**

Kazantsev, S. G. *see* **Bukhgeim, A. A., (2005i:65006)**

Kim, B. S. *see* **Kim, Kyung Youn et al., 2005b:35295**

Kim, Kyung Youn (*with* Kang, Sook In; Kim, Sin; Kim, Min Chan; Kang, Chang Ik; Lee, Junghoon) Dynamic electrical impedance imaging of binary-mixture fields with external and internal electrodes. (English summary)

— (*with* Kim, B. S.; Kim, Min Chan; Kim, Sin) Dynamic inverse obstacle problems with electrical impedance tomography. (English summary) **2005b:35295**

Kim, Min Chan *see* **Kim, Kyung Youn et al., 2005b:35295**

Kim, Sin *see* **Kim, Kyung Youn et al., 2005b:35295**

Koizumi, Shunzo *see* **Yamada, Masahiko et al.**

Krot, A. M. (*with* Minervina, E. B.) Restoration of dynamical systems attractors and estimation of their geometric characteristics into state-space. (English summary) **2005i:37039**

Kuba, Attila (*with* Nagy, Antal; Balogh, Emese) Reconstruction of *hv*-convex binary matrices from their absorbed projections. (English summary) **2005b:68277**

Kudo, Hiroyuki *see* **Defrise, Michel et al., 2005a:78030**

Landi, Germana *see* **Loli Piccolomini, Elena et al.**

Lee, Jinhee *see* **Huang, Cunkui et al., 2005d:35269**

Lee, June-Yub A reconstruction formula and uniqueness of conductivity in MREIT using two internal current distributions. (English summary) **2005c:35295**

Lee, Junghoon *see* **Kim, Kyung Youn et al.**

Li, De Yi[2] *see* **Xiong, Ge, 2005f:52007**

Likhachëv, A. V. (*with* Pikalov, V. V.) Influence of approximation of 3D tomography integral equation on inversion accuracy. (English summary) (*see* **2005i:65006**)

Lintner, Stéphane (*with* Malgouyres, François) Solving a variational image restoration model which involves L^∞ constraints. (English summary) **2005f:94010**

Liu, Bin[9] (*with* Harman, Michelle; Brezinski, Mark E.) Variables affecting polarization-sensitive optical coherence tomography imaging examined through the modeling of birefringent phantoms. (English summary)

Loli Piccolomini, Elena (*with* Landi, Germana; Zama, F.) A B-spline parametric model for high resolution dynamic magnetic resonance imaging. (English summary)

Louis, A. K. *see* **Jonas, Peter[2], 2005c:35292**

Lukac, Rastislav (*with* Plataniotis, Konstantinos N.; Smolka, Bogdan; Venetsanopoulos, Anastasios N.) cDNA microarray image processing using fuzzy vector filtering framework. (English summary)

MacMillan, H. R. (*with* Manteuffel, Thomas A.; McCormick, Stephen F.) First-order system least squares and electrical impedance tomography. (English summary) **2005h:65195**

Malgouyres, François *see* **Lintner, Stéphane, 2005f:94010**

(Malladi, Ravikanth) *see* **Geometric methods in bio-medical image processing, 2005a:92002**

Manteuffel, Thomas A. *see* **MacMillan, H. R. et al., 2005h:65195**

Masulli, F. *see* **Ferrara, G. B. et al.**

McCormick, Stephen F. *see* **MacMillan, H. R. et al., 2005h:65195**

McLaughlin, Joyce R. (*with* Yoon, Jeong-Rock) Unique identifiability of elastic parameters from time-dependent interior displacement measurement. (English summary) **2005b:74070**

— *see also* **Ji, Lin[3] et al., 2005b:74069** *and* **2005c:35291**

Meng, Xin *see* **Gu, Fanji et al.**

Miller, Michael I. *see* **Glaunès, Joan et al., 2005b:68275**

Minervina, E. B. *see* **Krot, A. M., 2005i:37039**

Modersitzki, Jan ★ Numerical methods for image registration. **2005h:68160**

— *see also* **Fischer, Bernd[1], 2005k:94003**

Mori, Kensaku *see* **Toriwaki, Jun-ichiro, (2005j:68006)**

Nagy, Antal *see* **Kuba, Attila et al., 2005b:68277**

Natterer, Frank (*with* Cheney, Margaret; Borden, Brett) Resolution for radar and x-ray tomography. (English summary) **2005a:78020**

Ng, Michael K. ★ Iterative methods for Toeplitz systems. **2005i:65002**

Nivat, Maurice On a tomographic equivalence between (0, 1)-matrices. (English summary) **2005h:68161**

Noo, Frédéric *see* **Defrise, Michel et al., 2005a:78030**

Nowak, Robert D. *see* **Scott, Clayton**

O'Connor, S. C. (*with* Robinson, Peter A.) Unifying and interpreting the spectral wavenumber content of EEGs, ECoGs, and ERPs. (English summary)

Oda, Yasutomo *see* **Yamada, Masahiko et al.**

Patch, Sarah K. *see* **Finch, David V. et al., 2005b:35290**

Pavarino, Luca F. Domain decomposition methods and scientific computing applications. (English and Italian summaries) **2005j:65168**

Pencea, C. S. *see* **Hentschel, H. G. E. et al.**

Perlovskiĭ, L. I. (*with* Deming, Ross) A mathematical theory for learning, and its application to time-varying computed tomography. (English summary)

Pevtsov, S. E. *see* **Hoffmann, Clemens et al.**

Picouleau, C. *see* **Costa, Marie-Christine et al., 2005m:68223**

Pikalov, V. V. *see* **Likhachëv, A. V., (2005i:65006)**
Plataniotis, Konstantinos N. *see* **Lukac, Rastislav et al.**
Popov, A. M. *see* **Hoffmann, Clemens et al.**
Popov, D. A. (*with* Sushko, D. V.) Image restoration in optical-acoustic tomography. (Russian. Russian summary) **2005h:44002**
Posukh, V. G. *see* **Bulyshev, A. E. et al., 2005c:78034**
Potthast, Roland *see* **Erhard, Klaus, 2005k:35426**
Rakesh[1] *see* **Finch, David V. et al., 2005b:35290**
Rapp, P. E. (*with* Cellucci, C. J.; Watanabe, T. A. A.; Albano, A. M.) Quantitative characterization of the complexity of multichannel human EEGs. (English summary)
Rennie, Christopher J. *see* **Rowe, Donald L. et al.**
Renzi, Daniel *see* **Ji, Lin[3] et al., 2005c:35291**
Robinson, Peter A. *see* **O'Connor, S. C.** *and* **Rowe, Donald L. et al.**
Rovetta, S. *see* **Ferrara, G. B. et al.**
Rowe, Donald L. (*with* Robinson, Peter A.; Rennie, Christopher J.) Estimation of neurophysiological parameters from the waking EEG using a biophysical model of brain dynamics. (English summary)
Ruan, Jiong *see* **Wang, Nai, 2005k:62219**
Sanfeliu, Alberto *see* **Staffetti, Ernesto et al., 2005m:68230**
Sastry, Challa S. (*with* Das, P. C.) A convolution back projection algorithm for local tomography. (English summary) **2005m:65318**
Schindl, D. *see* **Costa, Marie-Christine et al., 2005m:68223**
Schultz, William W. *see* **Huang, Cunkui et al., 2005d:35269**
Scott, Clayton (*with* Nowak, Robert D.) TEMPLAR: a wavelet-based framework for pattern learning and analysis. (English summary)
Semenov, S. Yu. *see* **Bulyshev, A. E. et al., 2005c:78034**
Sensi, R. *see* **Ferrara, G. B. et al.**
Seppänen, A. *see* **Kaipio, Jari P. et al., 2005b:35294**
Serratosa, Francesc *see* **Staffetti, Ernesto et al., 2005m:68230**
Shen, Enhua *see* **Gu, Fanji et al.**
Sivignon, Isabelle (*with* Dupont, Florent; Chassery, Jean-Marc) Decomposition of a three-dimensional discrete object surface into discrete plane pieces. (English summary) **2005a:68222**
Sizov, Y. E. *see* **Bulyshev, A. E. et al., 2005c:78034**
Smolka, Bogdan *see* **Lukac, Rastislav et al.**
Somersalo, Erkki (*with* Voutilainen, A.; Kaipio, Jari P.) Non-stationary magnetoencephalography by Bayesian filtering of dipole models. (English summary) **2005a:35282**
— *see also* **Kaipio, Jari P. et al., 2005b:35294**
Souvorov, A. E. *see* **Bulyshev, A. E. et al., 2005c:78034**
Staffetti, Ernesto (*with* Grau, Antoni; Serratosa, Francesc; Sanfeliu, Alberto) Object and image indexing based on region connection calculus and oriented matroid theory. (English summary) **2005m:68230**
Strömberg, Jan-Olov *see* **Boman, Jan, 2005d:44002**
Sushko, D. V. *see* **Popov, D. A., 2005h:44002**
Tamasan, Alexandru Optical tomography in weakly anisotropic scattering media. (English summary) **2005a:35284**
Tanács, Attila Image registration methods based on interactively identified point pairs. (Hungarian. English and Hungarian summaries) **2005f:94015**
Thorens, Lionel *see* **Alpers, Andreas et al., (2005j:68006)**
Toriwaki, Jun-ichiro (*with* Mori, Kensaku) Distance transformation and skeletonization of 3D pictures and their applications to medical images. (English summary) (*see* **2005j:68006**)
Vaillant, Marc *see* **Glaunès, Joan et al., 2005b:68275**
Vangel, Mark G. Combining functional MRI data on multiple subjects. (English summary) (*see* **2005i:62003**)
Venetsanopoulos, Anastasios N. *see* **Lukac, Rastislav et al.**
Voutilainen, A. *see* **Somersalo, Erkki et al., 2005a:35282**
Wang, Dong *see* **Du, Yang, (2005i:42002)**
Wang, Nai (*with* Ruan, Jiong) Principal component cluster analysis of ECG time series based on Lyapunov exponent spectrum. (English summary) **2005k:62219**
Watanabe, T. A. A. *see* **Rapp, P. E. et al.**
Weis, Antoine *see* **Bison, Georg et al.**
de Werra, Dominique *see* **Costa, Marie-Christine et al., 2005m:68223**
Williams, Lance R. *see* **Zweck, John, 2005d:68131**
Wynands, Robert *see* **Bison, Georg et al.**
Xiong, Ge (*with* Li, De Yi[2]) Reconstructing triangles inscribed in convex bodies from X-ray functions. (English summary) **2005f:52007**
Yamada, Masahiko (*with* Yamashita, Tomoko; Oda, Yasutomo; Emura, Sei; Yamashiro, Seiji; Koizumi, Shunzo) Nonlinear measures of heart beat intervals differ in female patients with chest pain. (English summary)
Yamashiro, Seiji *see* **Yamada, Masahiko et al.**
Yamashita, Tomoko *see* **Yamada, Masahiko et al.**
Yoon, Jeong-Rock *see* **McLaughlin, Joyce R., 2005b:74070** *and* **Ji, Lin[3] et al., 2005c:35291**
Zama, F. *see* **Loli Piccolomini, Elena et al.**
Zweck, John (*with* Williams, Lance R.) Euclidean group invariant computation of stochastic completion fields using shiftable-twistable functions. (English summary) **2005d:68131**

Items listed otherwise than by author

Geometric methods in bio-medical image processing ★ Geometric methods in bio-medical image processing. **2005a:92002**
Pattern recognition and string matching ★ Pattern recognition and string matching. **2005b:68003**

92C60 Medical epidemiology

Aguilar, Eduardo J. *see* **Flores, Luis E. et al.**
Allan, Martin J. (*with* Callard, Robin; Stark, Jaroslav; Yates, Andrew James) Comparing antigen-independent mechanisms of T cell regulation. (English summary)
Barbosa, Valmir C. *see* **Flores, Luis E. et al.**
Barfield, Michael *see* **Orive, Maria E. et al.**
Beauchemin, Catherine (*with* Samuel, John; Tuszyński, Jacek A.) A simple cellular automaton model for influenza A viral infections. (English summary)
Boëlle, Pierre-Yves *see* **Temime, Laura et al.**
Callard, Robin *see* **Allan, Martin J. et al.**
Cameron, David Allan *see* **Turner, Stephen et al.**
de Carvalho, Luís Alfredo V. *see* **Flores, Luis E. et al.**
Cheng, Wei-Chong *see* **Luh, Guan-Chun**
Chow, Carson C. *see* **Kumar, Rukmini et al.**
Clermont, Gilles *see* **Kumar, Rukmini et al.**
Culshaw, Rebecca (*with* Ruan, Shigui; Spiteri, Raymond J.) Optimal HIV treatment by maximising immune response. (English summary) **2005b:92022**
Doering, Charles R. *see* **Gammack, David et al., 2005i:92007**
Flores, Luis E. (*with* Aguilar, Eduardo J.; Barbosa, Valmir C.; de Carvalho, Luís Alfredo V.) A graph model for the evolution of specificity in humoral immunity. (English summary)
Gammack, David (*with* Doering, Charles R.; Kirschner, Denise E.) Macrophage response to *Mycobacterium tuberculosis* infection. (English summary) **2005i:92007**
Ganguli, Suman *see* **Segovia-Juarez, Jose L. et al.**
Gao, Feng[3] *see* **Xiong, Chengjie et al.**
Gu, Wei Qing[1] *see* **Moore, Helen, 2005m:92019**
Gumel, A. B. (*with* Moghadas, S. M.) HIV control in vivo: dynamical analysis. (English summary) **2005a:92029**
Holt, Robert D. *see* **Orive, Maria E. et al.**
Kelly, John K. *see* **Orive, Maria E. et al.**
Kirschner, Denise E. *see* **Gammack, David et al., 2005i:92007** *and* **Segovia-Juarez, Jose L. et al.**
Kumar, Rukmini (*with* Clermont, Gilles; Vodovotz, Yoram; Chow, Carson C.) The dynamics of acute inflammation. (English summary)
Lin, Feng *see* **Yu, Lan Ping et al.**
Luh, Guan-Chun (*with* Cheng, Wei-Chong) Immune model-based fault diagnosis. (English summary)
McElwain, D. L. S. *see* **Wilson, D. P.**
Miller, J. Philip *see* **Xiong, Chengjie et al.**
Moghadas, S. M. *see* **Gumel, A. B., 2005a:92029**
Moore, Helen (*with* Gu, Wei Qing[1]) A mathematical model for treatment-resistant mutations of HIV. (English summary) **2005m:92019**
Morris, John C. *see* **Xiong, Chengjie et al.**
Orive, Maria E. (*with* Stearns, Miles N.; Kelly, John K.; Barfield, Michael; Smith, Marilyn S.; Holt, Robert D.) Viral infection in internally structured hosts. I. Conditions for persistent infection. (English summary)
Ruan, Shigui *see* **Culshaw, Rebecca et al., 2005b:92022**
Samuel, John *see* **Beauchemin, Catherine et al.**
Segovia-Juarez, Jose L. (*with* Ganguli, Suman; Kirschner, Denise E.) Identifying control mechanisms of granuloma formation during *M. tuberculosis* infection using an agent-based model. (English summary)
Sherratt, Jonathan A. *see* **Turner, Stephen et al.**
Smirnova, Olga A. Mathematical modeling of radiation-induced autoimmunity. (English summary) (*see* **2005d:92001**)
Smith, Marilyn S. *see* **Orive, Maria E. et al.**
Spiteri, Raymond J. *see* **Culshaw, Rebecca et al., 2005b:92022**
Stark, Jaroslav *see* **Allan, Martin J. et al.**
Stearns, Miles N. *see* **Orive, Maria E. et al.**
Temime, Laura (*with* Boëlle, Pierre-Yves; Thomas, Guy) Deterministic and stochastic modeling of pneumococcal resistance to penicillin. (English summary)
Thomas, Guy *see* **Temime, Laura et al.**
Turner, Stephen (*with* Sherratt, Jonathan A.; Cameron, David Allan) Tamoxifen treatment failure in cancer and the nonlinear dynamics of TGF β. (English summary)
Tuszyński, Jacek A. *see* **Beauchemin, Catherine et al.**
Vodovotz, Yoram *see* **Kumar, Rukmini et al.**
Wilson, D. P. (*with* McElwain, D. L. S.) Diffusion theory can be applied to antibodies attaching to ligand sites. (English summary)
Xiong, Chengjie (*with* Miller, J. Philip; Gao, Feng[3]; Yan, Yan[1]; Morris, John C.) Testing increasing hazard rate for the progression time of dementia. (English summary)
Yan, Yan[1] *see* **Xiong, Chengjie et al.**
Yates, Andrew James *see* **Allan, Martin J. et al.**
Yu, Lan Ping (*with* Zheng, Zhou Shun; Lin, Feng) An age-dependent tuberculosis model. (Chinese. English and Chinese summaries)
Zheng, Zhou Shun *see* **Yu, Lan Ping et al.**

Items with secondary classifications in 92C60

Arciero, J. C. (*with* Jackson, Trachette L.; Kirschner, Denise E.) A mathematical model of tumor-immune evasion and siRNA treatment. (English summary) **2005c:92016**
Boucontet, Laurent *see* **Sepúlveda, Nuno et al.**
Carneiro, Jorge *see* **León, Kalet et al.** *and* **Sepúlveda, Nuno et al.**
Chao, Dennis L. (*with* Davenport, Miles P.; Forrest, Stephanie; Perelson, Alan S.) A stochastic model of cytotoxic T cell responses. (English summary)
Chen, James J. Statistics in toxicology. (English summary) (*see* **2005c:62003**)
Chew, David S. H. (*with* Choi, Kwok Pui; Heidner, Hans; Leung, Ming-Ying) Palindromes in SARS and other coronaviruses. (English summary) **2005g:92026**
Choi, Kwok Pui *see* **Chew, David S. H. et al., 2005g:92026**
Davenport, Miles P. *see* **Chao, Dennis L. et al.**
Donnelly, Christl A. *see* **Riley, Steven et al.**
Ferguson, Neil M. *see* **Riley, Steven et al.**
Forrest, Stephanie *see* **Chao, Dennis L. et al.**
Galvani, Alison P. *see* **Porco, Travis C. et al.**
Gani, Joseph M. Random-allocation and urn models. (English summary) **2005c:60043**
Gross, Kimber L. *see* **Porco, Travis C. et al.**
Gustafson, Paul ★ Measurement error and misclassification in statistics and epidemiology. **2005b:62146**

Han, Li Tao *see* **Lou, Jie et al., 2005c:92010**
Heidner, Hans *see* **Chew, David S. H. et al., 2005g:92026**
Hin, Lin Yee *see* **Hsu, Jason C. et al., (2005i:62006)**
Hsu, Jason C. (*with* Qiu, Peihua; Hin, Lin Yee; Mutti, Donald O.; Zadnik, Karla) Multiple comparisons with the best ROC curve. (English summary) (*see* **2005i:62006**)
Jackson, Trachette L. *see* **Arciero, J. C. et al., 2005c:92016**
Kirschner, Denise E. *see* **Arciero, J. C. et al., 2005c:92016**
Lage, Agustin *see* **León, Kalet et al.**
León, Kalet (*with* Lage, Agustin; Carneiro, Jorge) Tolerance and immunity in a mathematical model of T-cell mediated suppression. (English summary)
Leung, Ming-Ying *see* **Chew, David S. H. et al., 2005g:92026**
Li, Jian Quan[1] (*with* Zhang, Juan[3]; Ma, Zhi En) Global analysis of some epidemic models with general contact rate and constant immigration. (Chinese. English and Chinese summaries) **2005a:92058**
Lloyd-Smith, James O. *see* **Porco, Travis C. et al.**
Lou, Jie (*with* Ma, Zhi En; Shao, Yiming; Han, Li Tao) Modelling the interaction of T-cells, antigen presenting cells, and HIV-1 in vivo. (English summary) **2005c:92010**
Ma, Zhi En *see* **Li, Jian Quan[1] et al., 2005a:92058** *and* **Lou, Jie et al., 2005c:92010**
Murray, John M. (*with* Perelson, Alan S.) Human immunodeficiency virus: quasi-species and drug resistance. (English summary)
Mutti, Donald O. *see* **Hsu, Jason C. et al., (2005i:62006)**
Pereira, Pablo *see* **Sepúlveda, Nuno et al.**
Perelson, Alan S. *see* **Chao, Dennis L. et al.** *and* **Murray, John M.**
Pokhariyal, G. P. (*with* Simwa, R. O.) A model of HIV infection and its application. (English summary) **2005f:92033**
Porco, Travis C. (*with* Lloyd-Smith, James O.; Gross, Kimber L.; Galvani, Alison P.) The effect of treatment on pathogen virulence. (English summary)
Qiu, Peihua *see* **Hsu, Jason C. et al., (2005i:62006)**
Riley, Steven (*with* Donnelly, Christl A.; Ferguson, Neil M.) Robust parameter estimation techniques for stochastic within-host macroparasite models. (English summary)
Sepúlveda, Nuno (*with* Boucontet, Laurent; Pereira, Pablo; Carneiro, Jorge) Stochastic modeling of T cell receptor γ gene rearrangement. (English summary)
Shao, Yiming *see* **Lou, Jie et al., 2005c:92010**
Simwa, R. O. *see* **Pokhariyal, G. P., 2005f:92033**
Zadnik, Karla *see* **Hsu, Jason C. et al., (2005i:62006)**
Zhang, Juan[3] *see* **Li, Jian Quan[1] et al., 2005a:92058**

92C80 Plant biology

Barnes, Belinda (*with* Farquhar, G.; Gan, K. S.) Modelling the isotope enrichment of leaf water. (English summary) **2005d:92010**
— A dynamical, self-thinning approach to scaling vegetation systems. (English summary)
Bhattacharya, D. K. Toxicity in plants and optimal growth under fertilizer. (English summary) **2005d:92011**
Campanella, Osvaldo H. *see* **Singh, Pawan P. et al., 2005f:92014**
Chalyuk, Antonina T. *see* **Shteĭn, A. A. et al., (2005d:92001)**
Corvalan, Carlos *see* **Singh, Pawan P. et al., 2005f:92013**
Cushman, John H. *see* **Singh, Pawan P. et al., 2005f:92013** *and* **2005f:92014**
Duchesne, J. *see* **Fleurant, C. et al.**
Farquhar, G. *see* **Barnes, Belinda et al., 2005d:92010**
Ferraro, Pascal (*with* Godin, Christophe; Prusinkiewicz, Przemyslaw) Toward a quantification of self-similarity in plants. (English summary)
Fleurant, C. (*with* Duchesne, J.; Raimbault, P.) An allometric model for trees. (English summary)
Gan, K. S. *see* **Barnes, Belinda et al., 2005d:92010**
Godin, Christophe *see* **Ferraro, Pascal et al.**
Haghighi, Kamyar *see* **Singh, Pawan P. et al., 2005f:92013**
Logvenkov, Sergey A. *see* **Shteĭn, A. A. et al., (2005d:92001)**
Maier, Dirk E. *see* **Singh, Pawan P. et al., 2005f:92013** *and* **2005f:92014**
Miller, Laura A. Structural dynamics and resonance in plants with nonlinear stiffness. (English summary)
Prusinkiewicz, Przemyslaw *see* **Ferraro, Pascal et al.**
Raimbault, P. *see* **Fleurant, C. et al.**
Scholz, Markus An attempt to explain the ascent of sap in defoliated trees. (English summary) **2005c:92018**
Shteĭn, A. A. (*with* Logvenkov, Sergey A.; Chalyuk, Antonina T.) Mathematical modeling of the plant root as a water-pumping cellular system. (English summary) (*see* **2005d:92001**)
Singh, Pawan P. (*with* Maier, Dirk E.; Cushman, John H.; Haghighi, Kamyar; Corvalan, Carlos) Effect of viscoelastic relaxation on moisture transport in foods. I. Solution of general transport equation. (English summary) **2005f:92013**
— (*with* Maier, Dirk E.; Cushman, John H.; Campanella, Osvaldo H.) Effect of viscoelastic relaxation on moisture transport in foods. II. Sorption and drying of soybeans. (English summary) **2005f:92014**

Items with secondary classifications in 92C80

Fowler, A. C. *see* **Roose, T.**
Roose, T. (*with* Fowler, A. C.) A model for water uptake by plant roots. (English summary)
— (*with* Fowler, A. C.) A mathematical model for water and nutrient uptake by plant root systems. (English summary)
Thomas, Diana M. (*with* Vandemuelebroeke, Lynn; Yamaguchi, Kenneth) A mathematical evolution model for phytoremediation of metals. (English summary) **2005m:86005**
Vandemuelebroeke, Lynn *see* **Thomas, Diana M. et al., 2005m:86005**
Yamaguchi, Kenneth *see* **Thomas, Diana M. et al., 2005m:86005**

92C99 None of the above, but in this section

Lim, Jong-Tage *see* **Yun, Bo-Hyun**
Yun, Bo-Hyun (*with* Lim, Jong-Tage) Protein name recognition from biomedical texts. (English summary)

Items with secondary classifications in 92C99

Almaas, E. (*with* Krapivsky, Paul L.; Redner, Sidney) Statistics of weighted treelike networks. (English summary) **2005k:82086**
Amato, Paolo *see* **Kocarev, Ljupco, 2005m:37218**
Burnecki, Krzysztof *see* **Weron, Aleksander et al., 2005m:82121**
Carbonaro, B. (*with* Giordano, C.) A second step towards a stochastic mathematical description of human feelings. (English summary) **2005m:60139**
Giordano, C. *see* **Carbonaro, B., 2005m:60139**
Khrennikov, Andrei Yu. p-adic discrete dynamical systems and their applications in physics and cognitive sciences. (English summary) **2005m:37110**
Kocarev, Ljupco (*with* Amato, Paolo) Synchronization in power-law networks. (English summary) **2005m:37218**
Krapivsky, Paul L. *see* **Almaas, E. et al., 2005k:82086**
Mercik, Szymon *see* **Weron, Aleksander et al., 2005m:82121**
Nagarajan, D. *see* **Senthamarai Kannan, K. et al.**
Redner, Sidney *see* **Almaas, E. et al., 2005k:82086**
Senthamarai Kannan, K. (*with* Nagarajan, D.; Tamizh Chelvam, T.) Stochastic model of human gestation period for mature and premature live birth. (English summary)
Tamizh Chelvam, T. *see* **Senthamarai Kannan, K. et al.**
Weron, Aleksander (*with* Burnecki, Krzysztof; Mercik, Szymon; Weron, Karina) Complete description of all self-similar models driven by Lévy stable noise. (English summary) **2005m:82121**
Weron, Karina *see* **Weron, Aleksander et al., 2005m:82121**

92Dxx Genetics and population dynamics

Items with secondary classifications in 92Dxx

Svishchuk, A. V. (*with* Wu, Jian Hong) ★ Evolution of biological systems in random media: limit theorems and stability. **2005a:60004**
Wu, Jian Hong *see* **Svishchuk, A. V., 2005a:60004**

92D10 Genetics {For genetic algebras, see 17D92.}

Abdulle, Assyr (*with* Attinger, Sabine) Homogenization method for transport of DNA particles in heterogeneous arrays. (English summary) **2005e:92022**
Aceto, Luca (*with* Hansen, Jens A.; Ingólfsdóttir, Anna; Johnsen, Jacob; Knudsen, John) The complexity of checking consistency of pedigree information and related problems. (English summary) **2005b:92023**
Ahlbrandt, Calvin (*with* Benson, Gary; Casey, William) Minimal entropy probability paths between genome families. (English summary) **2005b:92024**
Aihara, Kazuyuki *see* **Tomioka, Ryota et al.**
Albert, Réka Boolean modeling of genetic regulatory networks. (English summary) (*see* **2005g:05005**)
Alekseyev, Max A. (*with* Pevzner, Pavel A.) Genome halving problem revisited. (English summary) **2005m:92020**
Aluru, Srinivas *see* **Seal, Sudip et al., 2005g:92022**
Andrec, Michael (*with* Kholodenko, Boris N.; Levy, Ronald M.; Sontag, Eduardo D.) Inference of signaling and gene regulatory networks by steady-state perturbation experiments: structure and accuracy. (English summary)
Antoneli, Fernando, Jr. (*with* Forger, Michael; Hornos, José Eduardo M.) The search for symmetries in the genetic code: finite groups. (English summary) **2005e:92023**
Attinger, Sabine *see* **Abdulle, Assyr, 2005e:92022**
Aubin, Jane E. *see* **Nagarajan, Radhakrishnan et al.**
Aumann, Yonatan (*with* Manisterski, Efrat; Yakhini, Zohar) Designing optimally multiplexed SNP genotyping assays. (English summary) **2005k:92034**
Balaeff, Alexander (*with* Koudella, Christophe R.; Mahadevan, L.; Schulten, Klaus) Modelling DNA loops using continuum and statistical mechanics. (English summary) **2005c:92019**
Bauer, William R. *see* **White, J. H., 2005b:92029**
Béal, Marie-Pierre (*with* Bergeron, Anne; Corteel, Sylvie; Raffinot, Mathieu) An algorithmic view of gene teams. (English summary) **2005f:92015**
Belotserkovskii, Boris P. (*with* Zarling, David A.) Analysis of a one-dimensional random walk with irreversible losses at each step: applications for protein movement on DNA. (English summary) **2005b:92025**
Benson, Gary *see* **Ahlbrandt, Calvin et al., 2005b:92024**
Bergeron, Anne *see* **Béal, Marie-Pierre et al., 2005f:92015**
Błażewicz, Jacek (*with* Formanowicz, Piotr; Kasprzak, Marta) Selected combinatorial problems of computational biology. (English summary) **2005g:92019**
Bolouri, Hamid *see* **Orrell, David**
Bommarius, Andreas S. *see* **Dubey, Anshul et al.**
Booth, Hilary S. (*with* Burden, Conrad J.; Hegland, Markus; Santoso, Lucia) Markov process modelling of gene regulation. (English summary) **2005j:92014**
Bradshaw-Hajek, B. H. (*with* Broadbridge, Philip) A robust cubic reaction-diffusion system for gene propagation. (English summary) **2005b:92026**
Brasier, Allan R. *see* **Lipniacki, Tomasz et al.** *and* **Paszek, Pawel et al.**
von Bremen, Hubertus F. *see* **Sacker, Robert J., 2005e:92024**
Broadbridge, Philip *see* **Bradshaw-Hajek, B. H., 2005b:92026**
Browning, Lindsay (*with* Colman, Andrew M.) Evolution of coordinated alternating reciprocity in repeated dyadic games. (English summary)
Burden, Conrad J. *see* **Booth, Hilary S. et al., 2005j:92014**
Butov, A. A. *see* **Golubev, Aleksei et al.**
Cai, Zhipeng (*with* Heydari, Maysam; Lin, Guo-Hui) Clustering binary oligonucleotide fingerprint vectors for DNA clone classification analysis. (English summary)
Campbell, R. B. A logistic branching process for population genetics. (English summary)
Casey, William *see* **Ahlbrandt, Calvin et al., 2005b:92024**
Cebrat, Stanisław *see* **Dudkiewicz, Małgorzata et al., (2005c:00014)**

Chang, Weng-Long *see* **Guo, Minyi et al.**
Chen, Chun-Houh *see* **Tsai, Chen-An et al.**
Chen, James J. *see* **Tsai, Chen-An et al.**
Cho, Kwang-Hyun *see* **Möller-Levet, C. S. et al.**
Chung, Ren Hua (*with* Gusfield, Dan) Empirical exploration of perfect phylogeny haplotyping and haplotypers. (English summary) (*see* **2005a:05002**)
Coleman, Bernard D. *see* **Olson, Wilma K. et al., 2005b:92027**
Collins, J. J. *see* **Mason, Jonathan et al.**
Colman, Andrew M. *see* **Browning, Lindsay**
Corteel, Sylvie *see* **Béal, Marie-Pierre et al., 2005f:92015**
Coveney, Peter V. *see* **Grindon, Christina et al.**
Cummings, F. W. A model of morphogenesis. (English summary)
Daley, Mark (*with* McQuillan, Ian) Formal modelling of viral gene compression. (English summary) **2005k:92035**
— (*with* McQuillan, Ian) Template-guided DNA recombination. (English summary) **2005h:92014**
Dasika, Madhukar S. (*with* Gupta, Anshuman; Maranas, Costas D.) DEMSIM: a discrete event based mechanistic simulation platform for gene expression and regulation dynamics. (English summary)
Deaton, Russell J. *see* **Garzon, Max H.**
Deeds, Eric J. *see* **Tannenbaum, Emmanuel et al., 2005f:92016**
Delfino, L. *see* **Ferrara, G. B. et al.**
Demidenko, Gennadii V. (*with* Kolchanov, N. A.; Likhoshvaĭ, V. A.; Matushkin, Yu. G.; Fadeev, S. I.) Mathematical modeling of regulatory circuits of gene networks. (Russian. Russian summary)
Demongeot, Jacques Modelling of the genetic expression: positive interaction loops and genetic regulatory systems. (English and French summaries) **2005d:92012**
Deng, Minghua *see* **Yan, Xiting et al.**
Desper, Richard (*with* Khan, Javed; Schäffer, Alejandro A.) Tumor classification using phylogenetic methods on expression data. (English summary)
Dougherty, Edward R. *see* **Zhou, Xiaobo et al.**
Dubey, Anshul (*with* Realff, Matthew J.; Lee, Jay H.; Bommarius, Andreas S.) Support vector machines for learning to identify the critical positions of a protein. (English summary)
Dudek, Mirosław R. *see* **Dudkiewicz, Małgorzata et al., (2005c:00014)**
Dudkiewicz, Małgorzata (*with* Mackiewicz, Paweł; Nowicka, Aleksandra; Kowalczuk, Maria; Mackiewicz, Dorota; Polak, Natalia; Smolarczyk, Kamila; Dudek, Mirosław R.; Cebrat, Stanisław) Properties of the genetic code under directional, asymmetric mutational pressure. (English summary) (*see* **2005c:00014**)
Dupré, John Understanding contemporary genomics. (English summary)
Evans, Tom *see* **Grindon, Christina et al.**
Fadeev, S. I. (*with* Likhoshvaĭ, V. A.) On hypothetical gene networks. (Russian. Russian summary) **2005h:92015**
— *see also* **Demidenko, Gennadii V. et al.**
Ferrara, G. B. (*with* Delfino, L.; Masulli, F.; Rovetta, S.; Sensi, R.) A fuzzy approach to image analysis in HLA typing using oligonucleotide microarrays. (English summary)
Forger, Michael *see* **Antoneli, Fernando, Jr. et al., 2005e:92023**
Formanowicz, Piotr *see* **Błażewicz, Jacek et al., 2005g:92019**
Fukshansky, Anna A stochastic model for the mutation-selection balance in an infinite asexual population with a genome of fixed size. (English summary)
Fung, Wing Kam *see* **Yan, Xiting et al.**
Gao, Lin^2 (*with* Yang, Xiao; Liu, Wenbin; Xu, Jin^2) A DNA based model for addition computation. (English summary)
Garzon, Max H. (*with* Deaton, Russell J.) Codeword design and information encoding in DNA ensembles. (English summary)
Glass, Leon *see* **Perkins, Theodore J. et al.** *and* **Mason, Jonathan et al.**
Golubev, Aleksei (*with* Khrustalev, S.; Butov, A. A.) An in silico investigation into the causes of telomere length heterogeneity and its implications for the Hayflick limit. (English summary)
Grindon, Christina (*with* Harris, Sarah; Evans, Tom; Novik, Keir; Coveney, Peter V.; Laughton, Charles) Large-scale molecular dynamics simulation of DNA: implementation and validation of the AMBER98 force field in LAMMPS. (English summary)
Guo, Minyi (*with* Ho, Michael; Chang, Weng-Long) Fast parallel molecular solution to the dominating-set problem on massively parallel bio-computing. (English summary)
Gupta, Anshuman *see* **Dasika, Madhukar S. et al.**
Gusfield, Dan Optimal, efficient reconstruction of root-unknown phylogenetic networks with constrained and structured recombination. (English summary) **2005k:92036**
— *see also* **Chung, Ren Hua, (2005a:05002)**
Hallett, Michael T. *see* **Perkins, Theodore J. et al.**
Han, Le (*with* Mo, Zhong Xi) RNA-Z curve and its application in distinguishing bacterial genomes. (Chinese. English and Chinese summaries)
Han, Qui Hong *see* **Jia, Xin Gang, 2005m:92023**
Hansen, Jens A. *see* **Aceto, Luca et al., 2005b:92023**
Harju, Tero (*with* Petre, Ion; Rozenberg, Grzegorz) Two models for gene assembly in ciliates. (English summary) (*see* **2005g:68002**)
Harris, Sarah *see* **Grindon, Christina et al.**
Hegland, Markus *see* **Booth, Hilary S. et al., 2005j:92014**
Hein, Jotun (*with* Schierup, Mikkel H.; Wiuf, Carsten) ★ Gene genealogies, variation and evolution. **2005m:92021**
Heydari, Maysam *see* **Cai, Zhipeng et al.**
Ho, I-Ching *see* **Tsai, Chen-An et al.**
Ho, Michael *see* **Guo, Minyi et al.**
Hornos, José Eduardo M. *see* **Antoneli, Fernando, Jr. et al., 2005e:92023**
Hössjer, Ola Information and effective number of meioses in linkage analysis. (English summary) **2005i:92008**
Hu, Yue Qing (*with* Ma, Qing Hua^2) Paternity determination with incomplete mother's genotype. (Chinese. English and Chinese summaries)
Huson, Daniel H. (*with* Reinert, Knut; Myers, Eugene W.) The greedy path-merging algorithm for contig scaffolding. (English summary) **2005m:92022**
Ingólfsdóttir, Anna *see* **Aceto, Luca et al., 2005b:92023**
Jia, Xin Gang (*with* Han, Qui Hong) Joint genotypic probabilities in a structured population. (Chinese. English and Chinese summaries) **2005m:92023**
Johnsen, Jacob *see* **Aceto, Luca et al., 2005b:92023**
Kasprzak, Marta *see* **Błażewicz, Jacek et al., 2005g:92019**
Kauffman, Stuart A proposal for using the ensemble approach to understand genetic regulatory networks. (English summary)
— The ensemble approach to understand genetic regulatory networks. (English summary)
Keränen, Soile V. E. Simulation study on effects of signaling network structure on the development increase in complexity. (English summary)
Keupfer, Lars (*with* Sauer, Uwe) Modelling gene expression using stochastic simulation. (English summary) (*see* **2005d:65007**)
Khan, Javed *see* **Desper, Richard et al.**
Kholodenko, Boris N. *see* **Andrec, Michael et al.**
Khrustalev, S. *see* **Golubev, Aleksei et al.**
Kimmel, Gad (*with* Sharan, Roded; Shamir, Ron) Computational problems in noisy SNP and haplotype analysis: block scores, block identification, and population stratification. (English summary) **2005g:92020**
Kimmel, Marek *see* **Lipniacki, Tomasz et al.** *and* **Paszek, Pawel et al.**
Kimura, Hidenori *see* **Tomioka, Ryota et al.**
Kjøglum, Sissel *see* **Plahte, Erik, 2005i:92009**
Klawonn, Frank *see* **Möller-Levet, C. S. et al.**
Kliman, Harvey J. (*with* Segel, Lee) The placenta may predict the baby.
Klingmüller, U. *see* **Timmer, Jens et al.**
Knudsen, John *see* **Aceto, Luca et al., 2005b:92023**
Kobayashi, Tetsuya J. *see* **Tomioka, Ryota et al.**
Kolchanov, N. A. *see* **Demidenko, Gennadii V. et al.**
Komarina, Srikanth *see* **Seal, Sudip et al., 2005g:92022**
Komarova, N. L. Replicator-mutator equation, universality property and population dynamics of learning. (English summary)
Konigsberg, Zvi Retchkiman Switching modeling, stability and regulation for biological systems: genomics. (English summary) **2005a:92030**
Koudella, Christophe R. *see* **Balaeff, Alexander et al., 2005c:92019**
Kowalczuk, Maria *see* **Dudkiewicz, Małgorzata et al., (2005c:00014)**
Kozlov, N. N. A theorem for a genetic code. (Russian) **2005a:92031**
Kunisawa, Takashi Branching orders among α-proteobacteria and mitochondria inferred from gene transpositions.
Lai, Yinglei (*with* Sun, Fengzhu) Sampling distribution for microsatellites amplified by PCR: mean field approximation and its applications to genotyping. (English summary)
Lancia, Giuseppe G. (*with* Pinotti, Maria Cristina; Rizzi, Romeo) Haplotyping populations by pure parsimony: complexity of exact and approximation algorithms. (English summary) **2005g:92021**
Laubenbacher, Reinhard (*with* Stigler, Brandilyn) A computational algebra approach to the reverse engineering of gene regulatory networks. (English summary)
Laughton, Charles *see* **Grindon, Christina et al.**
Lee, Jay H. *see* **Dubey, Anshul et al.**
Lee, Te-Chang *see* **Tsai, Chen-An et al.**
Levy, Ronald M. *see* **Andrec, Michael et al.**
Li, Zi Mao *see* **Liu, Xiao Wen et al.**
Liao, Bo (*with* Wang, Tian Ming) An enumeration of RNA secondary substructure. (Chinese. English and Chinese summaries)
Likhoshvaĭ, V. A. *see* **Fadeev, S. I., 2005h:92015** *and* **Demidenko, Gennadii V. et al.**
Lima, Ricardo *see* **Volchenkov, D., 2005i:92010**
Lin, Guo-Hui *see* **Cai, Zhipeng et al.**
Linsay, Paul S. *see* **Mason, Jonathan et al.**
Lipniacki, Tomasz (*with* Paszek, Pawel; Brasier, Allan R.; Luxon, Bruce; Kimmel, Marek) Mathematical model of NF-κB regulatory module. (English summary)
— *see also* **Paszek, Pawel et al.**
Liu, Wenbin *see* **Gao, Lin^2 et al.**
Liu, Xiao Wen (*with* Zhu, Da Ming; Ma, Shao Han; Li, Zi Mao; Wang, Lu Sheng) An $O(n^2)$ algorithm for sorting oriented genomes by translocations. (Chinese. English and Chinese summaries)
Locke, J. C. W. (*with* Millar, A. J.; Turner, Matthew Simon) Modelling genetic networks with noisy and varied experimental data: the circadian clock in *Arabidopsis thaliana*. (English summary)
Lukac, Rastislav (*with* Plataniotis, Konstantinos N.; Smolka, Bogdan; Venetsanopoulos, Anastasios N.) cDNA microarray image processing using fuzzy vector filtering framework. (English summary)
Luxon, Bruce *see* **Lipniacki, Tomasz et al.**
Ma, Qing Hua^2 *see* **Hu, Yue Qing**
Ma, Shao Han *see* **Liu, Xiao Wen et al.**
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Manisterski, Efrat *see* **Aumann, Yonatan et al., 2005k:92034**
Maranas, Costas D. *see* **Dasika, Madhukar S. et al.**
Marron, Mark (*with* Swenson, Krister M.; Moret, Bernard M. E.) Genomic distances under deletions and insertions. (English summary) (*see* **2005a:05002**)
Mason, Jonathan (*with* Linsay, Paul S.; Collins, J. J.; Glass, Leon) Evolving complex dynamics in electronic models of genetic networks. (English summary)
Masulli, F. *see* **Ferrara, G. B. et al.**
Matushkin, Yu. G. *see* **Demidenko, Gennadii V. et al.**
McQuillan, Ian *see* **Daley, Mark, 2005h:92014** *and* **2005k:92035**
Millar, A. J. *see* **Locke, J. C. W. et al.**
Mo, Zhong Xi *see* **Han, Le**
Möller-Levet, C. S. (*with* Klawonn, Frank; Cho, Kwang-Hyun; Yin, Hujun; Wolkenhauer, O.) Clustering of unevenly sampled gene expression time-series data. (English summary)
Moret, Bernard M. E. *see* **Marron, Mark et al., (2005a:05002)** *and* **Tang, Jijun, (2005b:68005)**
Müller, T. G. *see* **Timmer, Jens et al.**
Myers, Eugene W. *see* **Huson, Daniel H. et al., 2005m:92022**

Nagarajan, Radhakrishnan (*with* Aubin, Jane E.; Peterson, Charlotte A.) Modeling genetic networks from clonal analysis. (English summary)
— (*with* Aubin, Jane E.; Peterson, Charlotte A.) Robust dependencies and structures in stem cell differentiation. (English summary)
Nguyen, Danh V. Partial least squares dimension reduction for microarray gene expression data with a censored response. (English summary)
Novik, Keir *see* **Grindon, Christina et al.**
Nowak, David E. *see* **Paszek, Pawel et al.**
Nowicka, Aleksandra *see* **Dudkiewicz, Małgorzata et al.**, (2005c:00014)
Olson, Wilma K. (*with* Swigon, David; Coleman, Bernard D.) Implications of the dependence of the elastic properties of DNA on nucleotide sequence. (English summary) **2005b:92027**
Orrell, David (*with* Bolouri, Hamid) Control of internal and external noise in genetic regulatory networks. (English summary)
Paszek, Pawel (*with* Lipniacki, Tomasz; Brasier, Allan R.; Tian, Bing; Nowak, David E.; Kimmel, Marek) Stochastic effects of multiple regulators on expression profiles in eukaryotes. (English summary)
— *see also* **Lipniacki, Tomasz et al.**
Perkins, Theodore J. (*with* Hallett, Michael T.; Glass, Leon) Inferring models of gene expression dynamics. (English summary)
Peterson, Charlotte A. *see* **Nagarajan, Radhakrishnan et al.**
Petre, Ion *see* **Harju, Tero et al.**, (2005g:68002)
Pevzner, Pavel A. *see* **Alekseyev, Max A.**, 2005m:92020
Pinotti, Maria Cristina *see* **Lancia, Giuseppe G. et al.**, 2005g:92021
Pitchaimani, M. Estimation and sensitivity of Gompertz parameters with mortality deceleration rate. (English summary)
Plahte, Erik (*with* Kjøglum, Sissel) Analysis and generic properties of gene regulatory networks with graded response functions. (English summary) **2005i:92009**
Plataniotis, Konstantinos N. *see* **Lukac, Rastislav et al.**
Polak, Natalia *see* **Dudkiewicz, Małgorzata et al.**, (2005c:00014)
Prum, Bernard La recherche de gènes impliqués dans une maladie (Genset-Serono). (French summary) [The search for genes involved in a disease (Genset-Serono)]
Qian, Minping *see* **Yan, Xiting et al.**
Raffinot, Mathieu *see* **Béal, Marie-Pierre et al.**, 2005f:92015
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Rosselló-Llompart, Francesc Reidys' and Stadler's metrics for RNA contact structures. (English summary)
Rovetta, S. *see* **Ferrara, G. B. et al.**
Rozenberg, Grzegorz *see* **Harju, Tero et al.**, (2005g:68002)
Sacker, Robert J. (*with* von Bremen, Hubertus F.) Bifurcation of maps and cycling in genetic systems. (English summary) **2005e:92024**
Sandra, O. *see* **Timmer, Jens et al.**
Santillán, Moisés (*with* Zeron, Eduardo S.) Dynamic influence of feedback enzyme inhibition and transcription attenuation on the tryptophan operon response to nutritional shifts. (English summary)
Santoso, Lucia *see* **Booth, Hilary S. et al.**, 2005j:92014
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Schäffer, Alejandro A. *see* **Desper, Richard et al.**
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Schulten, Klaus *see* **Balaeff, Alexander et al.**, 2005c:92019
Seal, Sudip (*with* Komarina, Srikanth; Aluru, Srinivas) An optimal hierarchical clustering algorithm for gene expression data. (English summary) **2005g:92022**
Segel, Lee *see* **Kliman, Harvey J.**
Semeria, A. *see* **Serra, Roberto et al.**
Sensi, R. *see* **Ferrara, G. B. et al.**
Serra, Roberto (*with* Villani, Marco; Semeria, A.) Genetic network models and statistical properties of gene expression data in knock-out experiments. (English summary)
Shakhnovich, Eugene I. *see* **Tannenbaum, Emmanuel et al.**, 2005e:92025 *and* 2005f:92016
Shamir, Ron *see* **Kimmel, Gad et al.**, 2005g:92020
Sharan, Roded *see* **Kimmel, Gad et al.**, 2005g:92020
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Swigon, David *see* **Olson, Wilma K. et al.**, 2005b:92027
Tang, Jijun (*with* Moret, Bernard M. E.) Phylogenetic reconstruction from gene-rearrangement data with unequal gene content. (English summary) (*see* **2005b:68005**)
Tannenbaum, Emmanuel (*with* Shakhnovich, Eugene I.) Error and repair catastrophes: a two-dimensional phase diagram in the quasispecies model. (English summary) **2005e:92025**
— (*with* Deeds, Eric J.; Shakhnovich, Eugene I.) Semiconservative replication in the quasispecies model. (English summary) **2005f:92016**
Tao, Yi[1] Intrinsic noise, gene regulation and steady-state statistics in a two-gene network. (English summary)
Tian, Bing *see* **Paszek, Pawel et al.**
Timmer, Jens (*with* Müller, T. G.; Swameye, I.; Sandra, O.; Klingmüller, U.) Modeling the nonlinear dynamics of cellular signal transduction. (English summary)
Tobias, Irwin Thermal fluctuations of small rings of intrinsically helical DNA treated like an elastic rod. (English summary) **2005b:92028**
Tomioka, Ryota (*with* Kimura, Hidenori; Kobayashi, Tetsuya J.; Aihara, Kazuyuki) Multivariate analysis of noise in genetic regulatory networks. (English summary)
Tsai, Chen-An (*with* Lee, Te-Chang; Ho, I-Ching; Yang, Ueng-Cheng; Chen, Chun-Houh; Chen, James J.) Multi-class clustering and prediction in the analysis of microarray data. (English summary)
Turner, Matthew Simon *see* **Locke, J. C. W. et al.**
Venetsanopoulos, Anastasios N. *see* **Lukac, Rastislav et al.**
Villani, Marco *see* **Serra, Roberto et al.**
Volchenkov, D. (*with* Lima, Ricardo) Random shuffling of switching parameters in a model of gene expression regulatory network. (English summary) **2005i:92010**
Wang, Lu Sheng *see* **Liu, Xiao Wen et al.**
Wang, Tian Ming *see* **Liao, Bo**
Wang, Xiaodong[2] *see* **Zhou, Xiaobo et al.**
Waxman, David *see* **Welch, John J.**
Welch, John J. (*with* Waxman, David) The *nk* model and population genetics. (English summary)
White, J. H. (*with* Bauer, William R.) Finite-element analysis of the displacement of closed DNA loops under torsional stress. (English summary) **2005b:92029**
Wiuf, Carsten *see* **Hein, Jotun et al.**, 2005m:92021
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Xu, Jin[2] *see* **Gao, Lin**[2] **et al.**
Xu, Jinbo (*with* Xu, Ying[1]) Protein threading by linear programming: theoretical analysis and computational results. (English summary) **2005i:92011**
Xu, Ying[1] *see* **Xu, Jinbo**, 2005i:92011
Yakhini, Zohar *see* **Aumann, Yonatan et al.**, 2005k:92034
Yan, Xiting (*with* Deng, Minghua; Fung, Wing Kam; Qian, Minping) Detecting differentially expressed genes by relative entropy. (English summary)
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Zhou, Xiaobo (*with* Wang, Xiaodong[2]; Dougherty, Edward R.) Gene selection using logistic regressions based on AIC, BIC and MDL criteria. (English summary)
Zhu, Da Ming *see* **Liu, Xiao Wen et al.**

Items with secondary classifications in 92D10

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Aceto, Luca (*with* Hansen, Jens A.; Ingólfsdóttir, Anna; Johnsen, Jacob; Knudsen, John) The complexity of checking consistency of pedigree information and related problems. (English summary) **2005d:68059**
Addis, B. (*with* Schoen, F.) Docking of atomic clusters through nonlinear optimization. (English summary)
Ahangar, Reza Computer simulation and modeling of multistage carcinogenesis mutations. (English summary) (*see* **2005i:00016**)
Alba, Enrique (*with* Luna, Francisco; Nebro, Antonio J.) Advances in parallel heterogeneous genetic algorithms for continuous optimization. (English summary) **2005d:90145**
Anderson, Paul E. (*with* Jensen, Henrik Jeldtoft) Network properties, species abundance and evolution in a model of evolutionary ecology. (English summary) **2005i:92032**
Anh, V. V. *see* **Zhou, Li-Qian et al.**
Arazi, Arnon (*with* Ben-Jacob, Eshel; Yechiali, Uri) Bridging genetic networks and queueing theory. (English summary) **2005b:60234**
Areibi, Shawki *see* **Kucar, Dorothy et al.**, 2005c:90123
Bafna, Vineet (*with* Istrail, Sorin; Lancia, Giuseppe G.; Rizzi, Romeo) Polynomial and APX-hard cases of the individual haplotyping problem. (English summary) **2005m:68094**
Balaeff, Alexander *see* **Villa, Elizabeth et al.**, 2005h:92012
Ball, Joseph A. (*with* Vinnikov, Victor) Overdetermined multidimensional systems: state space and frequency domain methods. (English summary) **2005b:47170**
Bangham, J. Andrew *see* **Rolland-Lagan, Anne-Gaëlle et al.**
Barbi, Maria (*with* Mozziconacci, Julien; Victor, Jean-Marc) How the chromatin fiber deals with topological constraints. (English summary)
Bar-Hen, Avner (*with* Robin, Stéphane) An iterative procedure for differential analysis of gene expression. (English and French summaries) **2005b:62217**
Barnes, Earl R. *see* **Strickland, Dawn M. et al.**
Baro, Jesús Angel *see* **Carleos, Carlos et al.**, (2005i:62007)
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Ben-Jacob, Eshel *see* **Arazi, Arnon et al.**, 2005b:60234
Bergeron, Anne (*with* Stoye, Jens) On the similarity of sets of permutations and its applications to genome comparison. (English summary) (*see* **2005a:05002**)
— A very elementary presentation of the Hannenhalli-Pevzner theory. (English summary) **2005k:68156**
Berryman, Matthew J. *see* **Spencer, Sabrina L. et al.**
Biedl, Therese (*with* Brejová, Broňa; Demaine, Erik D.; Hamel, Angèle M.; López-Ortiz, Alejandro; Vinař, Tomáš) Finding hidden independent sets in interval graphs. (English summary) (*see* **2005a:05002**)
Böckenhauer, Hans-Joachim (*with* Bongartz, Dirk) Protein folding in the HP model on grid lattices with diagonals (extended abstract). (English summary) (*see* **2005m:68011**)
Bockmayr, Alexander *see* **Eveillard, Damien et al.**, 2005e:92016
Boncinelli, Edoardo The genome as a text to be deciphered. (Italian)
Bongartz, Dirk *see* **Böckenhauer, Hans-Joachim**, (2005m:68011)
Branlant, Christiane *see* **Eveillard, Damien et al.**, 2005e:92016
Brejová, Broňa (*with* Vinař, Tomáš) A better method for length distribution modeling in HMMs and its application to gene finding. (English summary) (*see* **2005a:68009**)
— *see also* **Biedl, Therese et al.**, (2005a:05002)
von Bremen, Hubertus F. *see* **Sacker, Robert J.**, (2005c:39001)
Broyde, Suse *see* **Zhang, Qing**[5] **et al.**
Brumer, Yisroel (*with* Shakhnovich, Eugene I.) Host-parasite coevolution and optimal mutation rates for semiconservative quasispecies. (English summary) **2005e:92033**
Campos, Paulo R. A. (*with* de Oliveira, Viviane M.; Wagner, Günter P.; Stadler, Peter F.) Gene phylogenies and protein-protein interactions: possible artifacts resulting from shared protein interaction partners. (English summary)
Carleos, Carlos (*with* Corral Blanco, Norberto; Lubiano, M. Asunción; Baro, Jesús Angel) Enhanced QTL linkage analysis with DNA pooling by means of Monte Carlo EM. (*see* **2005i:62007**)

Cercueil, Alain (*with* François, Olivier) Sharp asymptotics for fixation times in stochastic population genetics models at low mutation probabilities. (English summary) **2005g:60112**
Cerrai, Sandra (*with* Clément, Philippe) Schauder estimates for a class of second order elliptic operators on a cube. (English summary) **2005b:35052**
Chazelle, Bernard (*with* Kingsford, Carl; Singh, Mona) A semidefinite programming approach to side chain positioning with new rounding strategies. (English summary) **2005g:92015**
Chen, Zehua *see* **Zheng, Gang**[1]
Choi, Dug-Hwan *see* **Choi, Won**, **2005a:60101**
Choi, Won (*with* Choi, Dug-Hwan) The application of stochastic differential equations to population genetic model. (English summary) **2005a:60101**
Clément, Philippe *see* **Cerrai, Sandra**, **2005b:35052**
Coen, Enrico *see* **Rolland-Lagan, Anne-Gaëlle et al.**
Cohen, E. G. D. (*with* Mauzerall, David) A note on the Jarzynski equality. (English summary) **2005m:82083**
Coleman, Bernard D. (*with* Swigon, David) Theory of self-contact in Kirchhoff rods with applications to supercoiling of knotted and unknotted DNA plasmids. (English summary) **2005d:74016**
Condon, Anne (*with* Davy, Beth; Rastegari, Baharak; Zhao, Yinglei; Tarrant, Finbarr) Classifying RNA pseudoknotted structures. (English summary) **2005a:92016**
Corral Blanco, Norberto *see* **Carleos, Carlos et al.**, (**2005i:62007**)
Crowley, John J. *see* **Pauler, Donna K. et al.**, (**2005a:62015**)
Cui, Jisheng S. Analytical relationship between family history and genetic and environmental risks, with application to female breast cancer. (English summary)
Daley, Mark (*with* McQuillan, Ian) Viral gene compression: complexity and verification. (English summary) (*see* **2005m:68009**)
Damaschke, Peter Scheduling search procedures. (English summary) (*see* **2005a:68008**)
— Approximate location of relevant variables under the crossover distribution. (English summary) **2005f:68125**
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Dong, Yin Feng (*with* Yan, Guang Wu) Dynamical equation of chromosome telomere in cellular automata. (Chinese. English and Chinese summaries)
Dorman, Karin S. (*with* Sinsheimer, Janet S.; Lange, Kenneth) In the garden of branching processes. (English summary)
Dumitrescu, Dan *see* **Gog, Anca**
Durbin, Richard Finding genes in the human genome with hidden Markov models. (English summary) (*see* **2005c:62005**)
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Edwards, Roderick (*with* McDonald, Judith J.; Tsatsomeros, Michael J.) On matrices with common invariant cones with applications in neural and gene networks. (English summary) **2005i:15035**
Evans, Steven N. Fourier analysis and phylogenetic trees. (English summary) (*see* **2005b:94011**)
Eveillard, Damien (*with* Ropers, Delphine; de Jong, Hidde; Branlant, Christiane; Bockmayr, Alexander) A multi-scale constraint programming model of alternative splicing regulation. (English summary) **2005e:92016**
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Garrett, Elizabeth S. (*with* Parmigiani, Giovanni) A nested unsupervised approach to identifying novel molecular subtypes. (English summary)
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Gog, Anca (*with* Dumitrescu, Dan) A new approach of genetic chromodynamics. (English summary)
Goyal, Sachin (*with* Perkins, N. C.; Lee, Christopher) Nonlinear dynamics and loop formation in Kirchhoff rods with implications to the mechanics of DNA and cables. (English summary)
Grigor'ev, D. Yu. *see* **Vakulenko, S. A.**, **2005e:37203**
Guimarães, G. (*with* Urfer, W.) Self-organizing maps and its applications in sleep apnea research and molecular genetics. (English summary) (*see* **2005b:62008**)
Gupal, A. M. *see* **Sergienko, Ivan V. et al.**
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Hon, Wing-Kai (*with* Kao, Ming-Yang; Lam, Tak-Wah; Sung, Wing-Kin; Yiu, Siu-Ming) Non-shared edges and nearest neighbor interchanges revisited. (English summary) **2005b:68281**
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Lee, Christopher *see* **Goyal, Sachin et al.**
Lee, Dongkyu (*with* Han, Kyungsook) A genetic algorithm for predicting RNA pseudoknot structures. (English summary) (*see* **2005g:00014**)
Lee, Mei-Ling Ting (*with* Whitmore, George A.) Intensity-dependent normalization in microarray analysis: a note of concern. (English summary)
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Li, Zhaohai (*with* Xie, Min Yu) Statistics in genetics. (*see* **2005c:62003**)
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Lopes, Heitor S. (*with* Weinert, Wagner R.) EGIPSYS: an enhanced gene expression programming approach for symbolic regression problems. (English summary)
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Michor, Franziska (*with* Frank, Steven A.; May, Robert M.; Iwasa, Yoh; Nowak, Martin A.) Somatic selection for and against cancer. (English summary)
— *see also* **Iwasa, Yoh et al.**
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Patel, Rajan (*with* Longini, Ira M., Jr.; Halloran, M. Elizabeth) Finding optimal vaccination strategies for pandemic influenza using genetic algorithms. (English summary)
Pauler, Donna K. (*with* Hardin, Johanna; Faulkner, James R.; LeBlanc, Michael; Crowley, John J.) Survival analysis with gene expression arrays. (*see* **2005a:62015**)
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Pécou, Elisabeth Splitting the dynamics of large biochemical interaction networks. (English summary)
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Rolland-Lagan, Anne-Gaëlle (*with* Coen, Enrico; Impey, Stephen J.; Bangham, J. Andrew) A computational method for inferring growth parameters and shape changes during development based on clonal analysis. (English summary)
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Sacker, Robert J. (*with* von Bremen, Hubertus F.) Open problems on cycling in genetic systems. (*see* **2005c:39001**)
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— *see also* **Peng, Jie**
Simons, Gordon (*with* Yao, Yi-Ching; Morton, Glenn) Global Markov models for eukaryote nucleotide data. (English summary)
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Sivolob, Andrei (*with* Prunell, Ariel) Nucleosome conformational flexibility and implications for chromatin dynamics. (English summary) **2005b:92017**
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Soboleva, T. K. (*with* Vetharaniam, I.; Nixon, A. J.; Montenegro, R.; Pearson, A. J.; Sneyd, James) Mathematical modelling of prolactin-receptor interaction and the corollary for prolactin receptor gene expression in skin. (English summary)
Sokol, Joel S. *see* **Strickland, Dawn M. et al.**
Spencer, Sabrina L. (*with* Berryman, Matthew J.; García, José A.; Abbott, Derek) An ordinary differential equation model for the multistep transformation to cancer. (English summary)
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Tian, Jianjun (*with* Li, Bai-Lian) Coalgebraic structure of genetic inheritance. (English summary) **2005m:17048**
Travers, A. A. The structural basis of DNA flexibility. (English summary) **2005b:92018**
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Wagner, Günter P. *see* **Campos, Paulo R. A. et al.**
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Wang, Li-San (*with* Warnow, Tandy) Estimating true evolutionary distances between genomes. (English summary) (*see* **2005j:68008**)
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Wilson, Susan R. (*with* Huttley, Gavin A.) Non-replicability of disease gene results: a modelling perspective. (English summary) (*see* **2005a:62014**)
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Zhang, Qing[5] (*with* Broyde, Suse; Schlick, Tamar) Deformations of promoter DNA bound to carcinogens help interpret effects on TATA-element structure and activity. (English summary)
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— (*with* Gastwirth, Joseph L.) Fisher information in randomly sampled sib pairs and extremely discordant sib pairs in genetic analysis for a quantitative trait locus. (English summary)
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Billiard, Sylvain (*with* Faurie, Charlotte; Raymond, Michel) Maintenance of handedness polymorphism in humans: a frequency-dependent selection model. (English summary)
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Chen, Duhong (*with* Eulenstein, O.; Fernández-Baca, David; Sanderson, Michael J.) Supertrees by flipping. (English summary) **2005b:92030**
Cieslik, Dietmar ★ Shortest connectivity. **2005f:92018**
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Dress, Andreas W. M. (*with* Holland, Barbara; Huber, Katharina T.; Koolen, Jacobus H.; Moulton, Vincent; Weyer-Menkhoff, J.) Δ additive and Δ ultra-additive maps, Gromov's trees, and the Farris transform. (English summary) **2005k:92037**
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Hsu, Tsan-Sheng *see* **Lin, Yaw-Ling, 2005d:92013**
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Huber, Katharina T. (*with* Moulton, Vincent; Semple, Charles; Steel, Michael Anthony) Recovering a phylogenetic tree using pairwise closure operations. (English summary) **2005i:92014**
— *see also* **Dress, Andreas W. M. et al., 2005k:92037**
Husimi, Yuzuru *see* **Aita, Takuyo**
Hwa, Terence *see* **Peng, Weiqun et al., 2005e:92031**
Il'ichev, V. G. Evolution-stable parameters in a periodically changing environment. (Russian. Russian summary) **2005e:92029**
Jensen, Henrik Jeldtoft Emergence of species and punctuated equilibrium in the Tangle Nature model of biological evolution. (English summary)
Jeong, Hawoong *see* **Kim, Pan-Jun, 2005k:92038**
Kessler, David A. *see* **Peng, Weiqun et al., 2005e:92031**
Khachatryan, H. *see* **Saakian, David B. et al., 2005k:92039**
Kim, Bo Yeon (*with* Chang, Yun Seok; Park, Kwang Suk) A nonlinear model for predicting ECG R-R interval variation based on the evolutionary computation approach. (English summary) (*see* **2005c:00014**)
Kim, Pan-Jun (*with* Jeong, Hawoong) Spatio-temporal dynamics in the origin of genetic information. (English summary) **2005k:92038**
Klein, Markus *see* **Baake, Ellen et al., 2005j:92015**
Kooi, Bob W. *see* **Troost, Tineke A. et al.**
Kooijman, Sebastiaan A. L. M. *see* **Troost, Tineke A. et al.**
Koolen, Jacobus H. *see* **Dress, Andreas W. M. et al., 2005k:92037**
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Limic, Vlada (*with* Pemantle, Robin) More rigorous results on the Kauffman-Levin model of evolution. (English summary) **2005b:92032**
Lin, Yaw-Ling (*with* Hsu, Tsan-Sheng) Efficient algorithms for descendent subtrees comparison of phylogenetic trees with applications to co-evolutionary classifications in bacterial genome. (English summary) **2005d:92013**
Lindgren, Kristian *see* **Eriksson, Anders B.**
López, Inmaculada (*with* Gámez, Manuel; Carreño, Ramón; Varga, Zoltán) Recovering genetic processes from phenotypic observation. (English summary) (*see* **2005d:92001**)
Low, Bobbi S. *see* **Epelman, Marina A. et al.**
MacCarthy, Thomas (*with* Seymour, Robert; Pomiankowski, Andrew) The evolutionary potential of the Drosophila sex determination. (English summary)
Mahdi, Smail Results in a multinormal genetic model. (English summary)
Mao, Yong *see* **Coe, J. B. et al., 2005j:92016**
Miękisz, Jacek *see* **Alboszta, Jan**
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Netter, Brian *see* **Epelman, Marina A. et al.**
Nowak, Martin A. *see* **Sasaki, Akira[2], 2005b:92033**
Page, Karen M. Unifying evolutionary dynamics and a mathematical definition of selection. (English summary) (*see* **2005d:92001**)
Park, Kwang Suk *see* **Kim, Bo Yeon et al.,** (**2005c:00014**)
Pe'er, Itsik (*with* Shamir, Ron; Sharan, Roded) On the generality of phylogenies from incomplete directed characters. (English summary) (*see* **2005a:68002**)
— (*with* Pupko, Tal; Shamir, Ron; Sharan, Roded) Incomplete directed perfect phylogeny. (English summary) **2005e:92030**
Pęcalski, Andrzej *see* **Droz, Michel, 2005e:92026**
Pemantle, Robin *see* **Limic, Vlada, 2005b:92032**
Peng, Weiqun (*with* Levine, Herbert; Hwa, Terence; Kessler, David A.) Analytical study of the effect of recombination on evolution via DNA shuffling. (English summary) **2005e:92031**
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Rikvold, Per Arne *see* **Zia, R. K. P., 2005a:92034**
Ruxton, Graeme D. *see* **Sherratt, Thomas N. et al.**
Saakian, David B. (*with* Hu, Chin-Kun; Khachatryan, H.) Solvable biological evolution models with general fitness functions and multiple mutations in parallel mutation-selection scheme. (English summary) **2005k:92039**
Saldaña, Joan Models for understanding biological evolution. (Catalan)
Sanderson, Michael J. *see* **Chen, Duhong et al., 2005b:92030**
Sano, Masaki *see* **Toyabe, Shoichi, 2005k:92040**
Sarkar, Sahotra Evolutionary theory in the 1920s: the nature of the "synthesis". (English summary)
Sasaki, Akira[2] (*with* Nowak, Martin A.) Mutation landscapes. (English summary) **2005b:92033**
Scheuring, István The iterated continuous prisoner's dilemma game cannot explain the evolution of interspecific mutualism in unstructured populations. (English summary)
— *see also* **Flatt, Thomas**
Schimansky-Geier, Lutz *see* **Dunkel, Jörn et al., 2005e:92027**
Schreiber, Sebastian J. *see* **Benaïm, Michel et al., 2005f:92017**
Semple, Charles (*with* Steel, Michael Anthony) ★ Phylogenetics. **2005g:92024**
— *see also* **Bordewich, Magnus, 2005i:92012** *and* **Huber, Katharina T. et al., 2005i:92014**
Seto, Mayumi (*with* Akagi, Tasuku) Daisyworld inhabited with daisies incorporating a seed size/number trade-off: the mechanism of negative feedback on selection from a standpoint of the competition theory. (English summary)
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Sharan, Roded *see* **Pe'er, Itsik et al., 2005e:92030** *and* (**2005a:68002**)
Sherratt, Thomas N. (*with* Speed, Michael P.; Ruxton, Graeme D.) Natural selection on unpalatable species imposed by state-dependent foraging behaviour. (English summary)
Speed, Michael P. *see* **Sherratt, Thomas N. et al.**
Steel, Michael Anthony (*with* Penny, D.) Two further links between MP and ML under the Poisson model. (English summary) **2005b:92034**
— *see also* **Semple, Charles, 2005g:92024**; **Huber, Katharina T. et al., 2005i:92014** *and* **Dezulian, Tobias,** (**2005i:62003**)
Stewart, Ian N. (*with* Elmhirst, Toby; Cohen, Jack) Symmetry-breaking as an origin of species. (English summary) **2005a:92032**
Suzuki, Yukari (*with* Toquenaga, Yukihiko) Effects of information and group structure on evolution of altruism: analysis of two-score model by covariance and contextual analyses. (English summary)
Tannenbaum, Emmanuel (*with* Shakhnovich, Eugene I.) Solution of the quasispecies model for an arbitrary gene network. (English summary) **2005j:92018**
Tarrès, Pierre *see* **Benaïm, Michel et al., 2005f:92017**
Toquenaga, Yukihiko *see* **Suzuki, Yukari**
Toyabe, Shoichi (*with* Sano, Masaki) Spatial suppression of error catastrophe in a growing pattern. (English summary) **2005k:92040**
Troost, Tineke A. (*with* Kooi, Bob W.; Kooijman, Sebastiaan A. L. M.) When do mixotrophs specialize? Adaptive dynamics theory applied to a dynamic energy budget model. (English summary)
Varga, Zoltán *see* **López, Inmaculada et al.,** (**2005d:92001**)
Vincent, Thomas L. The G-function method for analyzing Darwinian dynamics. (English summary) **2005e:92032**
Wagner, Andreas Risk management in biological evolution. (English summary)
— (*with* Wright, Jeremiah) Compactness and cycles in signal transduction and transcriptional regulation networks: a signature of natural selection? (English summary)
Wang, Li-San (*with* Warnow, Tandy) Estimating true evolutionary distances between genomes. (English summary) (*see* **2005j:68008**)
Warnow, Tandy *see* **Wang, Li-San,** (**2005j:68008**)
Weyer-Menkhoff, J. *see* **Dress, Andreas W. M. et al., 2005k:92037**
White, Andrew R. (*with* Bowers, Roger G.) Adaptive dynamics of Lotka-Volterra systems with trade-offs: the role of interspecific parameter dependence in branching. (English summary) **2005j:92019**
— *see also* **Bowers, Roger G. et al.**
Wright, Jeremiah *see* **Wagner, Andreas**
Wu, Bang Ye Constructing evolutionary trees from rooted triples. (English summary) **2005a:92033**
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Yaniv, Osnat (*with* Motro, Uzi) The parental investment conflict in continuous time: St. Peter's fish as an example. (English summary)
Zhu, Binhai *see* **Xu, Yinfeng et al., 2005m:92025**
Zia, R. K. P. (*with* Rikvold, Per Arne) Fluctuations and correlations in an individual-based model of biological coevolution. (English summary) **2005a:92034**

Items with secondary classifications in 92D15

Allman, Elizabeth S. (*with* Rhodes, John A.) Quartets and parameter recovery for the general Markov model of sequence mutation.
Anderson, Paul E. (*with* Jensen, Henrik Jeldtoft) Network properties, species abundance and evolution in a model of evolutionary ecology. (English summary) **2005i:92032**
Ardila, Federico Subdominant matroid ultrametrics. (English summary) **2005k:05061**
Aubin, Jean-Pierre Adaptive evolution of complex systems under uncertain environmental constraints: a viability approach. (English summary) (*see* **2005f:92001**)
Barbosa, Valmir C. (*with* Campos, Luciana C. D.) A novel evolutionary formulation of the maximum independent set problem. (English summary) **2005h:90172**

Bienvenüe, Alexis (*with* François, Olivier) Global convergence for evolution strategies in spherical problems: some simple proofs and difficulties. (English summary) **2005g:68139**
Boc, Alix *see* **Makarenkov, Vladimir et al.**, (**2005i:62003**)
Bordewich, Magnus (*with* Semple, Charles; Talbot, John) Counting consistent phylogenetic trees is #P-complete. (English summary) **2005f:05006**
Brodal, Gerth Stølting (*with* Fagerberg, Rolf; Pedersen, Christian N. S.; Östlin, Anna) The complexity of constructing evolutionary trees using experiments. (English summary) (*see* **2005a:68007**)
— (*with* Fagerberg, Rolf; Pedersen, Christian N. S.) Computing the quartet distance between evolutionary trees in time $O(n \log n)$. (English summary) **2005a:68092**
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Campos, Luciana C. D. *see* **Barbosa, Valmir C.**, **2005h:90172**
Campos, Paulo R. A. (*with* de Oliveira, Viviane M.; Wagner, Günter P.; Stadler, Peter F.) Gene phylogenies and protein-protein interactions: possible artifacts resulting from shared protein interaction partners. (English summary)
Carr, Jack (*with* Chmaj, Adam) Uniqueness of travelling waves for nonlocal monostable equations. (English summary) **2005b:35125**
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Chataigner, Frédéric Approximating the maximum agreement forest on k trees. (English summary) **2005h:68040**
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Chung, Ren Hua (*with* Gusfield, Dan) Empirical exploration of perfect phylogeny haplotyping and haplotypers. (English summary) (*see* **2005a:05002**)
Delgado Delgado, Manuel (*with* Molina-Becerra, Mónica; Suárez Fernández, Antonio) The sub-supersolution method for an evolutionary reaction-diffusion age-dependent problem. (English summary) **2005g:35170**
Desper, Richard (*with* Khan, Javed; Schäffer, Alejandro A.) Tumor classification using phylogenetic methods on expression data. (English summary)
Devauchelle, Claudine (*with* Dress, Andreas W. M.; Grossmann, Alexander; Grünewald, Stefan; Henaut, Alain) Constructing hierarchical set systems. (English summary)
Develin, Mike (*with* Sturmfels, Bernd) Tropical convexity. (English summary) **2005i:52010**
— The moduli space of n tropically collinear points in $\mathbb{R}^d$. (English summary) **2005m:55025**
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Dress, Andreas W. M. *see* **Devauchelle, Claudine et al.**
Ergün, Funda (*with* Muthukrishnan, S. Muthu; Şahinalp, Süleyman Cenk) Comparing sequences with segment rearrangements. (English summary) (*see* **2005d:68008**)
Fagerberg, Rolf *see* **Brodal, Gerth Stølting et al.**, **2005a:68092** *and* (**2005a:68007**)
Fletcher, Jeffrey A. (*with* Zwick, Martin) Strong altruism can evolve in randomly formed groups. (English summary)
François, Olivier *see* **Bienvenüe, Alexis**, **2005g:68139**
Fukshansky, Anna A stochastic model for the mutation-selection balance in an infinite asexual population with a genome of fixed size. (English summary)
Ganapathy, Ganeshkumar (*with* Warnow, Tandy) Approximating the complement of the maximum compatible subset of leaves of k trees. (English summary) (*see* **2005d:68005**)
Grossmann, Alexander *see* **Devauchelle, Claudine et al.**
Groult, Richard (*with* Léonard, Martine; Mouchard, Laurent) Evolutive tandem repeats using Hamming distance. (English summary) (*see* **2005b:68019**)
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Hartke, Stephen G. The elimination procedure for the phylogeny number. (English summary) **2005m:05105**
Hein, Jotun (*with* Schierup, Mikkel H.; Wiuf, Carsten) ★ Gene genealogies, variation and evolution. **2005m:92021**
Henaut, Alain *see* **Devauchelle, Claudine et al.**
Hon, Wing-Kai (*with* Lam, Tak-Wah; Yiu, Siu-Ming; Kao, Ming-Yang; Sung, Wing-Kin) Subtree transfer distance for degree-d phylogenies. (English summary) **2005i:68087**
Huber, Katharina T. (*with* Moulton, Vincent; Semple, Charles) Replacing cliques by stars in quasi-median graphs. (English summary) **2005g:05130**
Hung, Ling-Ju *see* **Lee, Chuan-Min et al.**, **2005k:68217**
Iwasa, Yoh (*with* Michor, Franziska; Nowak, Martin A.) Virus evolution within patients increases pathogenicity. (English summary)
— (*with* Michor, Franziska; Komarova, N. L.; Nowak, Martin A.) Population genetics of tumor suppressor genes. (English summary)
Jagers, Peter (*with* Sagitov, Serik) Convergence to the coalescent in populations of substantially varying size. (English summary) **2005d:60134**
Jansson, Jesper (*with* Ng, Joseph H.-K.; Sadakane, Kunihiko; Sung, Wing-Kin) Rooted maximum agreement supertrees. (English summary) **2005f:68162**
Jensen, Henrik Jeldtoft *see* **Anderson, Paul E.**, **2005i:92032**
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Karcz-Duleba, Iwona Time to the convergence of evolution in the space of population states. (English summary)
Khan, Javed *see* **Desper, Richard et al.**
Koch, Andreas (*with* Tvede, Mich) A model of sex-based social stability. (English summary)
Komarova, N. L. *see* **Iwasa, Yoh et al.**
Kubík, Aleš Distributed genetic algorithm: a case-study of evolution by direct exchange of chromosomes. (English summary)
Lam, Tak-Wah *see* **Hon, Wing-Kai et al.**, **2005i:68087**
Lee, Chuan-Min (*with* Hung, Ling-Ju; Chang, Maw-Shang; Shen, Chia-Ben; Tang, Chuan Yi) An improved algorithm for the maximum agreement subtree problem. (English summary) **2005k:68217**
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Lu, Chin Lung (*with* Tang, Chuan Yi; Lee, Richard Char Tung) The full Steiner tree problem in phylogeny. (English summary) (*see* **2005a:68012**)
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— *see also* **Huber, Katharina T. et al.**, **2005g:05130**
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Shyu, Shyong Jian (*with* Tsai, Ying Teh; Lee, Richard Char Tung) The minimal spanning tree preservation approaches for DNA multiple sequence alignment and evolutionary tree construction. (English summary) **2005h:92020**
Solé, Ricard V. (*with* Valverde, Sergi) Information theory of complex networks: on evolution and architectural constraints. (English summary) **2005k:94011**
Song, Yun S. On the combinatorics of rooted binary phylogenetic trees. (English summary) **2005c:05065**
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Stadler, Peter F. *see* **Campos, Paulo R. A. et al.**
Stannat, Wilhelm On the convergence of genetic algorithms—a variational approach. (English summary) **2005d:35040**
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Stauffer, Dietrich (*with* Chowdhury, Debashish) Unified "micro"- and "macro"-evolution of eco-systems: self-organization of a dynamic network. (English summary) **2005b:91190**
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— *see also* **Rybka, Piotr et al.**, **2005b:45011** *and* **Welch, John J.**
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Xu, Dashun (*with* Zhao, Xiao-Qiang) A nonlocal reaction-diffusion population model with stage structure. (English summary) **2005k:35413**
Yang, Weisong *see* **Xie, Yan Bo et al.**, **2005b:91075**
Yates, Andrew James (*with* Callard, Robin; Stark, Jaroslav) Combining cytokine signalling with T-bet and GATA-3 regulation in Th1 and Th2 differentiation: a model for cellular decision-making. (English summary)
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Bandyopadhyay, Sanghamitra An efficient technique for superfamily classification of amino acid sequences: feature extraction, fuzzy clustering and prototype selection. (English summary)
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Berger, John A. (*with* Mitra, Sanjit K.; Carli, Marco; Neri, Alessandro) Visualization and analysis of DNA sequences using DNA walks. (English summary) **2005a:92035**
Błażewicz, Jacek (*with* Formanowicz, Piotr; Kasprzak, Marta; Markiewicz, Wojciech T.) Sequencing by hybridization with isothermic oligonucleotide libraries. (English summary) **2005g:92025**
Boncinelli, Edoardo The genome as a text to be deciphered. (Italian)
Bousoño-Calzón, Carlos *see* **Pelta, David et al.**
Brejová, Broňa (*with* Vinař, Tomáš) A better method for length distribution modeling in HMMs and its application to gene finding. (English summary) (*see* **2005a:68009**)
— (*with* Brown, Daniel Gregory; Vinař, Tomáš) Optimal spaced seeds for hidden Markov models, with application to homologous coding regions. (English summary) (*see* **2005a:68010**)
— (*with* Brown, Daniel Gregory; Vinař, Tomáš) Vector seeds: an extension to spaced seeds. (English summary) **2005k:92041**
Brown, Daniel Gregory *see* **Brejová, Broňa et al.**, **2005k:92041** *and* (**2005a:68010**)
Buhler, Jeremy (*with* Keich, Uri; Sun, Yanni) Designing seeds for similarity search in genomic DNA. (English summary) **2005k:92042**
Bundschuh, Ralf *see* **Chia, Nicholas**, **2005j:92020**
Burke, Edmund K. *see* **Pelta, David et al.**
Campos, Paulo R. A. (*with* de Oliveira, Viviane M.; Wagner, Günter P.; Stadler, Peter F.) Gene phylogenies and protein-protein interactions: possible artifacts resulting from shared protein interaction partners. (English summary)
Carbone, Alessandra (*with* Gromov, Mikhael L.) Functional labels and syntactic entropy on DNA strings and proteins. (English summary) **2005b:92036**
Carli, Marco *see* **Berger, John A. et al.**, **2005a:92035**
Chao, Kun-Mao *see* **Lin, Yaw-Ling et al.**, (**2005b:68019**)
Chen, Zhi-Zhong *see* **Gao, Yong et al.**, (**2005a:05002**)
Chew, David S. H. (*with* Choi, Kwok Pui; Heidner, Hans; Leung, Ming-Ying) Palindromes in SARS and other coronaviruses. (English summary) **2005g:92026**
Chia, Nicholas (*with* Bundschuh, Ralf) Finite width model sequence comparison. (English summary) **2005j:92020**
Choi, Kwok Pui *see* **Chew, David S. H. et al.**, **2005g:92026**
Close, Timothy J. *see* **Zheng, Jie[2] et al.**, (**2005a:68010**)
Cohen, Barry *see* **Andronescu, Mirela et al.**, **2005b:92035**
Condon, Anne *see* **Andronescu, Mirela et al.**, **2005b:92035**
Cotik, V. (*with* Romero Zaliz, R.; Zwir, I.) A hybrid promoter analysis methodology for prokaryotic genomes. (English summary)
Crochemore, Maxime (*with* Sagot, Marie-France) Motifs in sequences: localization and extraction. (*see* **2005j:92001**)
Curado, Luiz Reginaldo A. F. *see* **Walter, Maria Emilia M. T. et al.**, (**2005a:68010**)
Dees, Danielle *see* **Andronescu, Mirela et al.**, **2005b:92035**
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Deng, Ji Qin *see* **Zhou, Li-Qian et al.**
Eichler, Evan *see* **Şahinalp, Süleyman Cenk et al.**, (**2005a:68009**)
Ergün, Funda (*with* Muthukrishnan, S. Muthu; Şahinalp, Süleyman Cenk) Comparing sequences with segment rearrangements. (English summary) (*see* **2005d:68008**)
— *see also* **Şahinalp, Süleyman Cenk et al.**, (**2005a:68009**)
Faraut, Thomas *see* **Weil, Georges et al.**
Faray Melo, Renata Cristina (*with* Walter, Maria Emilia M. T.; Magalhaes Alves de Melo, Alba Cristina; Batista, Rodolfo B.) Parallel DNA sequence alignment using a DSM system in a cluster of workstations. (English summary) (*see* **2005c:00015**)
Fernández, Ariel (*with* Rogale, Kristina) Sequence-space selection of cooperative model proteins. (English summary) **2005a:92036**
Fernández-Baca, David *see* **Sun, Fangting et al.**, **2005c:92021** *and* (**2005a:68012**)
Fleißner, Roland *see* **Metzler, Dirk et al.**, (**2005i:00006**)
Fokas, A. S. (*with* Gel′fand, Izrail′ Moiseevich; Kister, A. E.) Prediction of the structural motifs of sandwich proteins. (English summary) **2005h:92017**
Formanowicz, Piotr *see* **Błażewicz, Jacek et al.**, **2005g:92025**
Friedetzky, Tom *see* **Şahinalp, Süleyman Cenk et al.**, (**2005a:68009**)
Gao, Yong (*with* Wu, Jun Feng[2]; Niewiadomski, Robert; Wang, Yang[4]; Chen, Zhi-Zhong; Lin, Guo-Hui) A space efficient algorithm for sequence alignment with inversions. (English summary) (*see* **2005a:05002**)
Garte, Seymour Fractal properties of the human genome. (English summary)
Gel′fand, Izrail′ Moiseevich *see* **Fokas, A. S. et al.**, **2005h:92017**
Goldberg, Paul *see* **Şahinalp, Süleyman Cenk et al.**, (**2005a:68009**)
Goldstein, Pavle (*with* Karaga, Maja; Kosor, Mate; Nižetić, Ivana; Tadić, Marija; Vlah, Domagoj) Hidden Markov models and multiple alignments of protein sequences. (English summary) (*see* **2005j:65004**)
Grau, Ricardo *see* **Sánchez, Robersy et al.**, **2005m:92027**
Gray, Genetha Anne (*with* Kolda, Tamara G.; Sale, Ken; Young, Malin M.) Optimizing an empirical scoring function for transmembrane protein structure determination. (English summary)
Gromov, Mikhael L. *see* **Carbone, Alessandra**, **2005b:92036**
Groult, Richard (*with* Léonard, Martine; Mouchard, Laurent) Evolutive tandem repeats using Hamming distance. (English summary) (*see* **2005b:68019**)
Guo, Junyi[2] (*with* Hwang, Frank K.) An almost-linear time and linear space algorithm for the longest common subsequence problem. (English summary) **2005k:92043**
Gupal, A. M. *see* **Sergienko, Ivan V. et al.**
Gusfield, Dan Haplotype inference by pure parsimony. (English summary) (*see* **2005a:68010**)
von Haeseler, Arndt *see* **Metzler, Dirk et al.**, (**2005i:00006**)
Han, Yonghua (*with* Ma, Bin; Zhang, Kaizhong) An automata approach to match gapped sequence tags against protein database. (English summary)
He, Ping-an (*with* Wang, Jun[1]) Some properties for DNA curve. (English summary)
Heidner, Hans *see* **Chew, David S. H. et al.**, **2005g:92026**
Heringa, Jaap Protein sequence analysis and prediction of secondary structural features. (*see* **2005j:92001**)
Heus, Kamel *see* **Weil, Georges et al.**
Hirst, Jonathan D. *see* **Pelta, David et al.**
Hoos, Holger H. *see* **Tulpan, Dan C.**, (**2005f:68004**)
Hwang, Frank K. *see* **Guo, Junyi[2]**, **2005k:92043**
Iliopoulos, Costas S. (*with* Makris, Christos; Sioutas, Spyros; Tsakalidis, Athanasios K.; Tsichlas, Kostas) Identifying occurrences of maximal pairs in multiple strings. (English summary) (*see* **2005a:68009**)
Jiang, Tao[1] *see* **Zheng, Jie[2] et al.**, (**2005a:68010**) *and* **Lin, Yaw-Ling et al.**, (**2005b:68019**)
Julstrom, Bryant A. Codings and operators in two genetic algorithms for the leaf-constrained minimum spanning tree problem. (English summary)
Just, Winfried (*with* Della Vedova, Gianluca) Multiple sequence alignment as a facility-location problem. (English summary) **2005g:92027**
Kai, Bo *see* **Shen, Shi Yi et al.**
Karaga, Maja *see* **Goldstein, Pavle et al.**, (**2005j:65004**)
Kasprzak, Marta *see* **Błażewicz, Jacek et al.**, **2005g:92025**
Keich, Uri (*with* Li, Ming[1]; Ma, Bin; Tromp, John) On spaced seeds for similarity search. (English summary) **2005h:92018**
— *see also* **Buhler, Jeremy et al.**, **2005k:92042**
Kister, A. E. *see* **Fokas, A. S. et al.**, **2005h:92017**
Kolda, Tamara G. *see* **Gray, Genetha Anne et al.**
Konopka, Andrzej K. Introduction to pragmatic analysis of nucleic acid sequences. (*see* **2005j:92001**)
Korotkov, E. V. (*with* Korotkova, M. A.; Kudryashov, Nikolai A.) Information decomposition method to analyze symbolical sequences. (English summary) **2005a:92037**
Korotkova, M. A. *see* **Korotkov, E. V. et al.**, **2005a:92037**
Kosor, Mate *see* **Goldstein, Pavle et al.**, (**2005j:65004**)
Kozlov, N. N. Application of a theorem for a genetic code. (Russian)
Krasnogor, Natalio *see* **Pelta, David et al.**
Kudryashov, Nikolai A. *see* **Korotkov, E. V. et al.**, **2005a:92037**
Kulikowski, Casimir *see* **do Lago, Alair Pereira et al.**, **2005m:92026**
do Lago, Alair Pereira (*with* Muchnik, I. B.; Kulikowski, Casimir) A sparse dynamic programming algorithm for alignment with non-overlapping inversions. (English summary) **2005m:92026**
Lam, Tak-Wah (*with* Lu, N.; Ting, Hing-Fung; Wong, Prudence W. H.; Yiu, Siu-Ming) Efficient algorithms for optimizing whole genome alignment with noise. (English summary) **2005d:92014**
Lee, Richard Char Tung *see* **Shyu, Shyong Jian et al.**, **2005h:92020**
Léonard, Martine *see* **Groult, Richard et al.**, (**2005b:68019**)
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Li, Bang-he Describing DNA sequences by 2-dimensional walks. (English and Chinese summaries) **2005a:92038**
Li, Jian Ping[3] *see* **Xu, Ying[3] et al.**, **2005m:92029**
Li, Ming[1] *see* **Keich, Uri et al.**, **2005h:92018**
Li, Shu Chao Algebraic characterization of RNA operations for DNA-based computation. (English summary)
Li, Su Zhen (*with* Mo, Zhong Xi; Zhang, Xuan; Tao, Yu Min) Multiple sequence alignment based on an immune genetic algorithm. (Chinese. English and Chinese summaries)
Liang, Chengzhi *see* **Ma, Bin et al.**, **2005k:92044** *and* (**2005a:68010**)
Liao, Bo *see* **Yuan, Chun Xin et al.**
Lin, Guo-Hui *see* **Gao, Yong et al.**, (**2005a:05002**)
Lin, Yaw-Ling (*with* Jiang, Tao[1]; Chao, Kun-Mao) Efficient algorithms for locating the length-constrained heaviest segments, with applications to biomolecular sequence analysis (extended abstract). (English summary) (*see* **2005b:68019**)
Liu, Jian Li *see* **Qiao, Y. H. et al.**
Lonardi, Stefano *see* **Zheng, Jie[2] et al.**, (**2005a:68010**)
Long, Shun-Chao *see* **Zhou, Li-Qian et al.**

Lu, N. *see* **Lam, Tak-Wah et al., 2005d:92014**
Ma, Bin (*with* Zhang, Kaizhong; Liang, Chengzhi) An effective algorithm for the peptide *de novo* sequencing from MS/MS spectrum. (English summary) (*see* **2005a:68010**)
— (*with* Zhang, Kaizhong; Liang, Chengzhi) An effective algorithm for peptide *de novo* sequencing from MS/MS spectra. (English summary) **2005k:92044**
— *see also* **Keich, Uri et al., 2005h:92018** *and* **Han, Yonghua et al.**
Magalhaes Alves de Melo, Alba Cristina *see* **Faray Melo, Renata Cristina et al., (2005c:00015)**
Makris, Christos *see* **Iliopoulos, Costas S. et al., (2005a:68009)**
Markiewicz, Wojciech T. *see* **Błażewicz, Jacek et al., 2005g:92025**
Marron, Mark (*with* Swenson, Krister M.; Moret, Bernard M. E.) Genomic distances under deletions and insertions. (English summary) **2005d:92015**
Mauri, Giancarlo (*with* Pavesi, Giulio) Pattern discovery in RNA secondary structure using affix trees. (English summary) (*see* **2005a:68010**)
Merrill, Stephen J. (*with* Nelson, Sangeeta; Struble, Craig A.) Spatial dependence of hybridization in the cDNA microarray. (English summary)
Metzler, Dirk (*with* Fleißner, Roland; Wakolbinger, Anton; von Haeseler, Arndt) Stochastic insertion-deletion processes and statistical sequence alignment. (English summary) (*see* **2005i:00006**)
Mitra, Sanjit K. *see* **Berger, John A. et al., 2005a:92035**
Mo, Zhong Xi *see* **Li, Su Zhen et al.**
Moreira, Andrés Genetic algorithms for the imitation of genomic styles in protein backtranslation. (English summary)
Moret, Bernard M. E. *see* **Marron, Mark et al., 2005d:92015**
Morgado Morales, E. R. *see* **Sánchez, Robersy et al., 2005m:92027**
Morishita, Shinichi *see* **Ogasawara, Jun, (2005a:68009)**
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Nižetić, Ivana *see* **Goldstein, Pavle et al., (2005j:65004)**
Ogasawara, Jun (*with* Morishita, Shinichi) Practical software for aligning ESTs to human genome. (English summary) (*see* **2005a:68009**)
Oliveira, Adilton G. *see* **Walter, Maria Emilia M. T. et al., (2005a:68010)**
de Oliveira, Viviane M. *see* **Campos, Paulo R. A. et al.**
Pavesi, Giulio *see* **Mauri, Giancarlo, (2005a:68010)**
Pelta, David (*with* Krasnogor, Natalio; Bousoño-Calzón, Carlos; Verdegay, José Luis; Hirst, Jonathan D.; Burke, Edmund K.) A fuzzy sets based generalization of contact maps for the overlap of protein structures. (English summary)
Peng, Z. S. (*with* Ting, Hing-Fung) Time and space efficient algorithms for constrained sequence alignment. (English summary) (*see* **2005m:68009**)
Perfetti, Luis A. *see* **Sánchez, Robersy et al., 2005m:92027**
Qiao, Y. H. (*with* Liu, Jian Li; Zhang, Cheng Gang; Xu, Xiao Hu; Zeng, Yan-jun) SVM classification of human intergenic and gene sequences. (English summary)
Ressom, H. (*with* Natarajan, Padma; Varghese, R. S.; Musavi, M. T.) Applications of fuzzy logic in genomics. (English summary)
Rogale, Kristina *see* **Fernández, Ariel, 2005a:92036**
Romero Zaliz, R. *see* **Cotik, V. et al.**
Ruan, Ji Shou *see* **Shen, Shi Yi et al.**
Sagot, Marie-France *see* **Crochemore, Maxime, (2005j:92001)**
Şahinalp, Süleyman Cenk (*with* Eichler, Evan; Goldberg, Paul; Berenbrink, Petra; Friedetzky, Tom; Ergün, Funda) Statistical identification of uniformly mutated segments within repeats. (English summary) (*see* **2005a:68009**)
— *see also* **Ergün, Funda et al., (2005d:68008)**
Sale, Ken *see* **Gray, Genetha Anne et al.**
Salomaa, Arto DNA complementarity and paradigms of computing. (English summary) **2005a:92039**
Sánchez, Robersy (*with* Perfetti, Luis A.; Grau, Ricardo; Morgado Morales, E. R.) A new DNA sequences vector space on a genetic code Galois field. (English summary) **2005m:92027**
Sergienko, Ivan V. (*with* Gupal, A. M.; Vorob'ev, A. S.; Vagis, A. A.) Mathematical modeling of the genome. (Russian. English, Russian and Ukrainian summaries)
Shen, Shi Yi A note on the distance matrix of multiple sequence alignment. (Chinese. English and Chinese summaries) **2005h:92019**
— Semantics analysis of biological sequences and exploring of second cipher rules. (Chinese. English and Chinese summaries)
— (*with* Yu, Tao; Kai, Bo; Ruan, Ji Shou) Semantics analysis of biological sequences and exploring of second cipher rules. II. (Chinese. English and Chinese summaries)
Shmilovici, Armin (*with* Ben-Gal, Irad) Using a compressibility measure to distinguish coding and noncoding DNA. (English summary)
Shyu, Shyong Jian (*with* Tsai, Ying Teh; Lee, Richard Char Tung) The minimal spanning tree preservation approaches for DNA multiple sequence alignment and evolutionary tree construction. (English summary) **2005h:92020**
Sioutas, Spyros *see* **Iliopoulos, Costas S. et al., (2005a:68009)**
Skiena, Steven S. *see* **Andronescu, Mirela et al., 2005b:92035**
Slaybaugh, Laura *see* **Andronescu, Mirela et al., 2005b:92035**
Stadler, Peter F. *see* **Campos, Paulo R. A. et al.**
Struble, Craig A. *see* **Merrill, Stephen J. et al.**
Sun, Fangting (*with* Fernández-Baca, David; Yu, Wei) Inverse parametric sequence alignment. (English summary) (*see* **2005a:68012**)
— (*with* Fernández-Baca, David; Yu, Wei) Inverse parametric sequence alignment. (English summary) **2005c:92021**
Sun, Yanni *see* **Buhler, Jeremy et al., 2005k:92042**
Swenson, Krister M. *see* **Marron, Mark et al., 2005d:92015**
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Tsakalidis, Athanasios K. *see* **Iliopoulos, Costas S. et al., (2005a:68009)**
Tsichlas, Kostas *see* **Iliopoulos, Costas S. et al., (2005a:68009)**
Tsur, Dekel Sequencing by hybridization with errors: handling longer sequences. (English summary) **2005m:92028**
Tulpan, Dan C. (*with* Hoos, Holger H.) Hybrid randomised neighbourhoods improve stochastic local search for DNA code design. (English summary) (*see* **2005f:68004**)
Vagis, A. A. *see* **Sergienko, Ivan V. et al.**
Varghese, R. S. *see* **Ressom, H. et al.**
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Vinař, Tomáš *see* **Brejová, Broňa et al., 2005k:92041; (2005a:68010)** *and* **(2005a:68009)**
Vinga, Susana (*with* Almeida, Jonas S.) Rényi continuous entropy of DNA sequences. (English summary)
Vlah, Domagoj *see* **Goldstein, Pavle et al., (2005j:65004)**
Vorob'ev, A. S. *see* **Sergienko, Ivan V. et al.**
Wagner, Günter P. *see* **Campos, Paulo R. A. et al.**
Wakolbinger, Anton *see* **Metzler, Dirk et al., (2005i:00006)**
Walter, Maria Emilia M. T. (*with* Curado, Luiz Reginaldo A. F.; Oliveira, Adilton G.) Working on the problem of sorting by transpositions on genome rearrangements. (English summary) (*see* **2005a:68010**)
— *see also* **Faray Melo, Renata Cristina et al., (2005c:00015)**
Wang, Jun[1] *see* **He, Ping-an**
Wang, Lu Sheng *see* **Xu, Ying[3] et al., 2005m:92029**
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Waterman, Michael S. *see* **Zhang, Yu[6]**
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Wong, Prudence W. H. *see* **Lam, Tak-Wah et al., 2005d:92014**
Wu, Jun Feng[2] *see* **Gao, Yong et al., (2005a:05002)**
Xu, Xiao Hu *see* **Qiao, Y. H. et al.**
Xu, Ying[3] (*with* Wang, Lu Sheng; Zhao, Hao; Li, Jian Ping[3]) Exact matching of RNA secondary structure patterns. (English summary) **2005m:92029**
Yiu, Siu-Ming *see* **Lam, Tak-Wah et al., 2005d:92014**
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Yu, Tao *see* **Shen, Shi Yi et al.**
Yu, Wei *see* **Sun, Fangting et al., 2005c:92021** *and* **(2005a:68012)**
Yu, Zu-Guo *see* **Zhou, Li-Qian et al.**
Yuan, Chun Xin (*with* Liao, Bo; Wang, Tian Ming) Alignment between mRNA sequence and protein sequence. (Chinese. English and Chinese summaries)
Zeng, Yan-jun *see* **Qiao, Y. H. et al.**
Zhang, Cheng Gang *see* **Qiao, Y. H. et al.**
Zhang, Kaizhong *see* **Ma, Bin et al., 2005k:92044; (2005a:68010)** *and* **Han, Yonghua et al.**
Zhang, Xuan *see* **Li, Su Zhen et al.**
Zhang, Yu[6] (*with* Waterman, Michael S.) An Eulerian path approach to local multiple alignment for DNA sequences. (English summary)
Zhao, Hao *see* **Xu, Ying[3] et al., 2005m:92029**
Zhao, Yinglei *see* **Andronescu, Mirela et al., 2005b:92035**
Zheng, Jie[2] (*with* Close, Timothy J.; Jiang, Tao[1]; Lonardi, Stefano) Efficient selection of unique and popular oligos for large EST databases. (English summary) (*see* **2005a:68010**)
Zhou, Li-Qian (*with* Yu, Zu-Guo; Deng, Ji Qin; Anh, V. V.; Long, Shun-Chao) A fractal method to distinguish coding and non-coding sequences in a complete genome based on a number sequence representation. (English summary)
Zwir, I. *see* **Cotik, V. et al.**

Items with secondary classifications in 92D20

Abouelhoda, Mohamed Ibrahim (*with* Ohlebusch, Enno) Multiple genome alignment: chaining algorithms revisited. (English summary) (*see* **2005a:68010**)
Akutsu, Tatsuya (*with* Bannai, Hideo; Miyano, Satoru; Ott, Sascha) On the complexity of deriving position specific score matrices from examples. (English summary) (*see* **2005a:68009**)
Alber, Jochen (*with* Gramm, Jens; Guo, Jiong; Niedermeier, Rolf) Towards optimally solving the longest common subsequence problem for sequences with nested arc annotations in linear time. (English summary) (*see* **2005a:68009**)
Alves, C. E. R. (*with* Caceres, Edson N.; Dehne, Frank; Song, Siang W.) A parallel wavefront algorithm for efficient biological sequence comparison. (English summary) (*see* **2005g:65009**)
Andonov, Rumen (*with* Balev, Stefan; Yanev, Nikolaĭ I.) Protein threading: from mathematical models to parallel implementations. (English summary) **2005g:92014**
de Angelis, Daniela *see* **Gilks, Walter R. et al.**
Antoneli, Fernando, Jr. (*with* Forger, Michael; Hornos, José Eduardo M.) The search for symmetries in the genetic code: finite groups. (English summary) **2005e:92023**
(Apostolico, Alberto) *see* **Combinatorial pattern matching, 2005a:68009**
Ardila, Federico Subdominant matroid ultrametrics. (English summary) **2005k:05061**
Arslan, Abdullah N. (*with* Eğecioğlu, Ömer) Dynamic programming based approximation algorithms for sequence alignment with constraints. (English summary) **2005g:90160**
Athreya, Siva R. (*with* Roy, Rahul; Sarkar, Anish) On the coverage of space by random sets. (English summary) **2005d:60018**
Audit, Benjamin *see* **Gilks, Walter R. et al.**
Aumann, Yonatan (*with* Manisterski, Efrat; Yakhini, Zohar) Designing optimally multiplexed SNP genotyping assays. (English summary) **2005k:92034**
(Baeza-Yates, Ricardo) *see* **Combinatorial pattern matching, 2005a:68010**
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Bannai, Hideo *see* **Akutsu, Tatsuya et al., (2005a:68009)**
Behzadi, Behshad (*with* Steyaert, Jean-Marc) An improved algorithm for generalized comparison of minisatellites. (English summary) (*see* **2005a:68010**)

Bergeron, Anne (*with* Stoye, Jens) On the similarity of sets of permutations and its applications to genome comparison. (English summary) (*see* **2005a:05002**)
— A very elementary presentation of the Hannenhalli-Pevzner theory. (English summary) **2005k:68156**
Biedl, Therese (*with* Brejová, Broňa; Demaine, Erik D.; Hamel, Angèle M.; López-Ortiz, Alejandro; Vinař, Tomáš) Finding hidden independent sets in interval graphs. (English summary) (*see* **2005a:05002**)
Billari, Francesco C. (*with* Piccarreta, Raffaella) Analyzing demographic life courses through sequence analysis. (English summary)
Bille, Philip A survey on tree edit distance and related problems. (English summary) **2005m:68240**
Błażewicz, Jacek (*with* Formanowicz, Piotr; Kasprzak, Marta; Schuurman, Petra; Woeginger, Gerhard J.) DNA sequencing, Eulerian graphs. (English summary) (*see* **2005a:68015**)
— (*with* Glover, Fred W.; Kasprzak, Marta) DNA sequencing—tabu and scatter search combined. (English summary) **2005e:90164**
Booth, Hilary S. (*with* MacNamara, Shevarl F.; Nielsen, Ole M.; Wilson, Susan R.) An iterative approach to determining the length of the longest common subsequence of two strings. (English summary) **2005g:60020**
Bordewich, Magnus (*with* Semple, Charles) On the computational complexity of the rooted subtree prune and regraft distance. (English summary) **2005i:92012**
Brejová, Broňa *see* **Biedl, Therese et al.**, (**2005a:05002**)
Broyde, Suse *see* **Zhang, Qing[5] et al.**
Burkhardt, Stefan (*with* Kärkkäinen, Juha) One-gapped q-gram filters for Levenshtein distance. (English summary) (*see* **2005a:68009**)
Cabrera-Ibarra, Hugo On the classification of rational 3-tangles. (English summary) **2005a:57002**
Caceres, Edson N. *see* **Alves, C. E. R. et al.**, (**2005g:65009**)
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(Chávez, Edgar) *see* **Combinatorial pattern matching**, **2005a:68010**
Che, Zhi-Zhong (*with* Gao, Yong; Lin, Guo-Hui; Niewiadomski, Robert; Wang, Yang[4]; Wu, Jun Feng[2]) A space-efficient algorithm for sequence alignment with inversions and reversals. (English summary) **2005d:68142**
Chen, Ting[1] *see* **He, Yong[1]**, **2005a:68227**
Chen, Xin *see* **Li, Ming[1] et al.**, **2005f:68028**
Chen, Zhi-Zhong *see* **Lin, Guo-Hui et al.**, (**2005a:68007**)
Chiorean, Ioana Remarks on some parallel algorithms for prefix computation. (English summary) **2005k:68219**
Chou, Kuo-Chen *see* **Wang, Meng[3] et al.**
Chung, Kai-min (*with* Lu, Hsueh-I.) An optimal algorithm for the maximum-density segment problem. (English summary) (*see* **2005c:68003**)
Cieliebak, Mark (*with* Eidenbenz, Stephan; Woeginger, Gerhard J.) Double digest revisited: complexity and approximability in the presence of noisy data. (English summary) (*see* **2005a:05002**)
— (*with* Eidenbenz, Stephan) Measurement errors make the partial digest problem NP-hard. (English summary) (*see* **2005d:68010**)
Coleman, Bernard D. *see* **Olson, Wilma K. et al.**, **2005b:92027**
Cormode, Graham (*with* Muthukrishnan, S. Muthu; Şahinalp, Süleyman Cenk) Permutation editing and matching via embeddings. (English summary) (*see* **2005a:68007**)
(Crabbe, M. James C.) *see* **Handbook: Computational biology, compact**, **2005j:92001**
Crochemore, Maxime (*with* Iliopoulos, Costas S.; Mohamed, Manal; Sagot, Marie-France) Longest repeats with a block of don't cares. (English summary) **2005f:68161**
— *see also* **Combinatorial pattern matching**, **2005a:68010**
Daley, Mark (*with* McQuillan, Ian) Template-guided DNA recombination. (English summary) **2005h:92014**
Deeds, Eric J. *see* **Tannenbaum, Emmanuel et al.**, **2005f:92016**
Dehne, Frank *see* **Alves, C. E. R. et al.**, (**2005g:65009**)
Demaine, Erik D. *see* **Biedl, Therese et al.**, (**2005a:05002**)
De Meneses, Cláudio N. (*with* Lu, Zhaosong; Oliveira, Carlos A. S.; Pardalos, Panos M.) Optimal solutions for the closest-string problem via integer programming. (English summary) **2005g:90086**
Deng, Xiao Tie (*with* Li, Guo Jun[1]; Li, Zi Mao; Ma, Bin; Wang, Lu Sheng) A PTAS for distinguishing (sub)string selection. (English summary) (*see* **2005a:68008**)
Devauchelle, Claudine (*with* Dress, Andreas W. M.; Grossmann, Alexander; Grünewald, Stefan; Henaut, Alain) Constructing hierarchical set systems. (English summary)
Dong, Guozhu *see* **Wang, Lu Sheng et al.**, **2005m:68102**
Dong, Yafei *see* **Xu, Jin[2] et al.**
Dress, Andreas W. M. (*with* Erdős, Péter L.) Reconstructing words from subwords in linear time. (English summary) **2005j:68115**
— *see also* **Devauchelle, Claudine et al.**
Dulucq, Serge (*with* Touzet, Hélène) Analysis of tree edit distance algorithms. (English summary) (*see* **2005a:68010**)
Dupré, John Understanding contemporary genomics. (English summary)
Eğecioğlu, Ömer *see* **Arslan, Abdullah N.**, **2005g:90160**
Eidenbenz, Stephan *see* **Cieliebak, Mark et al.**, (**2005a:05002**) *and* (**2005d:68010**)
Elemento, Olivier (*with* Gascuel, Olivier) An exact and polynomial distance-based algorithm to reconstruct single copy tandem duplication trees. (English summary) (*see* **2005a:68010**)
Elias, Isaac Settling the intractability of multiple alignment. (English summary) **2005d:68050**
Ellis-Monaghan, Joanna A. Transition polynomials, double covers, and biomolecular computing. (English summary) **2005i:05141**
Erdős, Péter L. *see* **Dress, Andreas W. M.**, **2005j:68115**
Evans, Patricia A. (*with* Smith, Andrew David) Toward optimal motif enumeration. (English summary) (*see* **2005b:68005**)
Fang, Chen *see* **Li, Yuan[2] et al.**
Forger, Michael *see* **Antoneli, Fernando, Jr. et al.**, **2005e:92023**
Formanowicz, Piotr *see* **Błażewicz, Jacek et al.**, (**2005a:68015**)
Frisco, Pierluigi The conformon-P system: a molecular and cell biology-inspired computability model. (English summary) **2005a:68065**
Gao, Yong *see* **Che, Zhi-Zhong et al.**, **2005d:68142**
Gascuel, Olivier *see* **Elemento, Olivier**, (**2005a:68010**)
Gilks, Walter R. (*with* Audit, Benjamin; de Angelis, Daniela; Tsoka, Sophia; Ouzounis, Christos A.) Percolation of annotation errors through hierarchically structured protein sequence databases. (English summary)
Glover, Fred W. *see* **Błażewicz, Jacek et al.**, **2005e:90164**
Goldwasser, Michael H. (*with* Kao, Ming-Yang; Lu, Hsueh-I.) Linear-time algorithms for computing maximum-density sequence segments with bioinformatics applications. (English summary) **2005k:68247**
Gontineac, Mihai Some of the algebraic tools for molecular computing. (English summary) **2005m:92001**
Gramm, Jens *see* **Alber, Jochen et al.**, (**2005a:68009**)
Greenberg, Harvey J. (*with* Hart, William Eugene; Lancia, Giuseppe G.) Opportunities for combinatorial optimization in computational biology. (English summary) **2005b:90107**
Greenberg, Ronald I. Fast and space-efficient location of heavy or dense segments in run-length encoded sequences (extended abstract). (English summary) (*see* **2005a:05002**)
Grossmann, Alexander *see* **Devauchelle, Claudine et al.**
Grünewald, Stefan *see* **Devauchelle, Claudine et al.**
Guo, Jiong *see* **Alber, Jochen et al.**, (**2005a:68009**)
Gusfield, Dan Optimal, efficient reconstruction of root-unknown phylogenetic networks with constrained and structured recombination. (English summary) **2005k:92036**
Gyllenberg, Mats (*with* Carlsson, Jonas; Koski, Timo) Bayesian network classification of binarized DNA fingerprinting patterns. (English summary) (*see* **2005d:92001**)
Hadeler, Karl P. (*with* Kuttler, Christina; Nussbaum, Alexander K.) Cleaving proteins for the immune system. (English summary) **2005a:92017**
Hamel, Angèle M. *see* **Biedl, Therese et al.**, (**2005a:05002**)
Hart, William Eugene *see* **Greenberg, Harvey J. et al.**, **2005b:90107**
He, Lian Lian (*with* Shi, Feng[1]; Zhou, Huai Bei) Application of improved ant colony optimization algorithm to the 2D HP model. (Chinese. English and Chinese summaries)
He, Yong[1] (*with* Chen, Ting[1]) Optimal algorithms for recombination distance problem. (English summary) **2005a:68227**
Henaut, Alain *see* **Devauchelle, Claudine et al.**
Hon, Wing-Kai (*with* Sadakane, Kunihiko) Space-economical algorithms for finding maximal unique matches. (English summary) (*see* **2005a:68009**)
Hornos, José Eduardo M. *see* **Antoneli, Fernando, Jr. et al.**, **2005e:92023**
Huang, Chien-Pin *see* **Yang, I-Hsuan et al.**, **2005i:68098**
Hwang, Frank K. (*with* Liu, Y. C.) A general approach to compute the probabilities of unresolved clones in random pooling designs. (English summary) **2005c:60009**
Iliopoulos, Costas S. *see* **Crochemore, Maxime et al.**, **2005f:68161**
Imai, Hiroshi *see* **Sakakibara, Yasubumi**, **2005b:68094**
Ivansson, Lars (*with* Lagergren, Jens) Algorithms for RH mapping: new ideas and improved analysis. (English summary) **2005k:68094**
Jaeger, Sébastien (*with* Lima, Ricardo; Mossé, Brigitte) Symbolic analysis of finite words: the complexity function. (English summary) **2005c:68237**
Jansson, Jesper (*with* Ng, Joseph H.-K.; Sadakane, Kunihiko; Sung, Wing-Kin) Rooted maximum agreement supertrees. (English summary) **2005f:68162**
Jiang, Tao[1] *see* **Lin, Guo-Hui et al.**, **2005c:68299** *and* (**2005a:68007**)
Jin, Zhen (*with* Ma, Zhi En; Yuan, San Ling) A SIR epidemic model with varying population size. (Chinese. English and Chinese summaries) **2005b:92056**
Kao, Ming-Yang *see* **Goldwasser, Michael H. et al.**, **2005k:68247**
Kaplan, Haim (*with* Verbin, Elad) Efficient data structures and a new randomized approach for sorting signed permutations by reversals. (English summary) (*see* **2005a:68010**)
Kärkkäinen, Juha *see* **Burkhardt, Stefan**, (**2005a:68009**)
Kasprzak, Marta *see* **Błażewicz, Jacek et al.**, **2005e:90164** *and* (**2005a:68015**)
Kechedzhy, K. E. *see* **Usatenko, O. V. et al.**, **2005a:82086**
Koivisto, Mikko (*with* Rastas, Pasi; Ukkonen, Esko) Recombination systems. (English summary) **2005h:68078**
(Konopka, Andrzej K.) *see* **Handbook: Computational biology, compact**, **2005j:92001**
Kontorovich, Leonid Uniquely decodable n-gram embeddings. (English summary) **2005g:68083**
Koski, Timo *see* **Gyllenberg, Mats et al.**, (**2005d:92001**)
Kunisawa, Takashi Branching orders among α-proteobacteria and mitochondria inferred from gene transpositions.
Kuo, Wen-Hsiung *see* **Lin, Rung-Ren et al.**, (**2005c:68004**)
Kuttler, Christina *see* **Hadeler, Karl P. et al.**, **2005a:92017**
Lagergren, Jens *see* **Ivansson, Lars**, **2005k:68094**
Lai, Yinglei (*with* Sun, Fengzhu) Sampling distribution for microsatellites amplified by PCR: mean field approximation and its applications to genotyping. (English summary)
Lam, Tak-Wah (*with* Sadakane, Kunihiko; Sung, Wing-Kin; Yiu, Siu-Ming) A space and time efficient algorithm for constructing compressed suffix arrays. (English summary) (*see* **2005a:68012**)
Lancia, Giuseppe G. *see* **Greenberg, Harvey J. et al.**, **2005b:90107**
Li, Guo Jun[1] *see* **Deng, Xiao Tie et al.**, (**2005a:68008**)
Li, Jian Ping[3] *see* **Wang, Lu Sheng et al.**, **2005m:68102**
Li, Ming[1] (*with* Ma, Bin; Wang, Lu Sheng) Near optimal multiple alignment within a band in polynomial time. (*see* **2005i:68003**)
— (*with* Ma, Bin; Wang, Lu Sheng) On the closest string and substring problems. (English summary) **2005m:68256**
— (*with* Chen, Xin; Li, Xin; Ma, Bin; Vitányi, Paul M. B.) The similarity metric. (English summary) **2005f:68028**
Li, San Ping *see* **Xu, Jin[2] et al.**
Li, Xin *see* **Li, Ming[1] et al.**, **2005f:68028**
Li, Yuan[2] (*with* Fang, Chen; Ouyang, Qi) Genetic algorithm in DNA computing: a solution to the maximal clique problem. (English summary)
Li, Zi Mao *see* **Deng, Xiao Tie et al.**, (**2005a:68008**)

Lima, Ricardo *see* **Jaeger, Sébastien et al., 2005c:68237**
Lin, Guo-Hui (*with* Chen, Zhi-Zhong; Jiang, Tao[1]; Wen, Jianjun) The longest common subsequence problem for sequences with nested arc annotations (extended abstract). (English summary) (*see* **2005a:68007**)
— (*with* Jiang, Tao[1]) A further improved approximation algorithm for breakpoint graph decomposition. (English summary) **2005c:68299**
— *see also* **Che, Zhi-Zhong et al., 2005d:68142**
Lin, Rung-Ren (*with* Kuo, Wen-Hsiung; Chao, Kun-Mao) Finding a length-constrained maximum-density path in a tree. (English summary) (*see* **2005c:68004**)
Liu, Guangwu *see* **Pan, Lin Qiang et al.**
Liu, Xiao Wen *see* **Wang, Lu Sheng et al., 2005k:68218**
Liu, Y. C. *see* **Hwang, Frank K., 2005c:60009**
Liu, Yachun *see* **Pan, Lin Qiang et al.**
López-Ortiz, Alejandro *see* **Biedl, Therese et al., (2005a:05002)**
Lu, Hsueh-I. *see* **Goldwasser, Michael H. et al., 2005k:68247** *and* **Chung, Kai-min, (2005c:68003)**
Lu, Mingming *see* **Qu, Huiqin et al.**
Lu, Zhaosong *see* **De Meneses, Cláudio N. et al., 2005g:90086**
Lyngsø, Rune B. (*with* Pedersen, Christian N. S.) The consensus string problem and the complexity of comparing hidden Markov models. (English summary) **2005b:60186**
Ma, Bin *see* **Li, Ming[1] et al., 2005f:68028; 2005m:68256; (2005i:68003)** *and* **Deng, Xiao Tie et al., (2005a:68008)**
Ma, Shao Han *see* **Wang, Lu Sheng et al., 2005k:68218**
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MacNamara, Shevarl F. *see* **Booth, Hilary S. et al., 2005g:60020**
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Manthey, Bodo Non-approximability of weighted multiple sequence alignment for arbitrary metrics. (English summary) **2005m:68088**
Marron, Mark (*with* Swenson, Krister M.; Moret, Bernard M. E.) Genomic distances under deletions and insertions. (English summary) (*see* **2005a:05002**)
Mauri, Giancarlo (*with* Pavesi, Giulio) Algorithms for pattern matching and discovery in RNA secondary structure. (English summary) **2005m:68048**
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Miyano, Satoru *see* **Akutsu, Tatsuya et al., (2005a:68009)**
Moan, Christophe (*with* Rusu, Irena) Hard problems in similarity searching. (English summary) **2005e:68081**
Mohamed, Manal *see* **Crochemore, Maxime et al., 2005f:68161**
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Muthukrishnan, S. Muthu *see* **Cormode, Graham et al., (2005a:68007)**
Newman, Alantha (*with* Ruhl, Matthias) Combinatorial problems on strings with applications to protein folding. (English summary) (*see* **2005d:68010**)
Ng, Joseph H.-K. *see* **Jansson, Jesper et al., 2005f:68162**
Niedermeier, Rolf *see* **Alber, Jochen et al., (2005a:68009)**
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Nussbaum, Alexander K. *see* **Hadeler, Karl P. et al., 2005a:92017**
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Oliveira, Carlos A. S. *see* **De Meneses, Cláudio N. et al., 2005g:90086**
Olson, Wilma K. (*with* Swigon, David; Coleman, Bernard D.) Implications of the dependence of the elastic properties of DNA on nucleotide sequence. (English summary) **2005b:92027**
Ott, Sascha *see* **Akutsu, Tatsuya et al., (2005a:68009)**
Ouyang, Qi *see* **Li, Yuan[2] et al.**
Ouzounis, Christos A. *see* **Gilks, Walter R. et al.**
Pan, Lin Qiang (*with* Liu, Guangwu; Xu, Jin[2]; Liu, Yachun) Solid phase based DNA solution of the coloring problem. (English summary)
Pardalos, Panos M. *see* **De Meneses, Cláudio N. et al., 2005g:90086**
Pavesi, Giulio *see* **Mauri, Giancarlo, 2005m:68048**
Pedersen, Christian N. S. *see* **Lyngsø, Rune B., 2005b:60186**
Piau, Didier Immortal branching Markov processes: averaging properties and PCR applications. (English summary) **2005a:60136**
Piccarreta, Raffaella *see* **Billari, Francesco C.**
Pinheiro, Aluísio *see* **Pinheiro, Hildete Prisco et al.**
Pinheiro, Hildete Prisco (*with* Pinheiro, Aluísio; Sen, Pranab Kumar[1]) Comparison of genomic sequences using the Hamming distance. (English summary)
Qu, Huiqin (*with* Lu, Mingming; Zhu, Hong[1]) Solve the partitioning problem by sticker model in DNA computing. (English summary)
Rastas, Pasi *see* **Koivisto, Mikko et al., 2005h:68078**
Rothemund, Paul Wilhelm Karl (*with* Winfree, Erik) The program-size complexity of self-assembled squares (extended abstract). (*see* **2005i:68003**)
Roy, Rahul *see* **Athreya, Siva R. et al., 2005d:60018**
Ruhl, Matthias *see* **Newman, Alantha, (2005d:68010)**
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Sadakane, Kunihiko *see* **Jansson, Jesper et al., 2005f:68162; Lam, Tak-Wah et al., (2005a:68012)** *and* **Hon, Wing-Kai, (2005a:68009)**
Sagot, Marie-France *see* **Crochemore, Maxime et al., 2005f:68161**
Sahinalp, Süleyman Cenk *see* **Cormode, Graham et al., (2005a:68007)**
Sakakibara, Yasubumi (*with* Imai, Hiroshi) A DNA-based computational model using a specific type of restriction enzymes. (English summary) **2005b:68094**
Sarkar, Anish *see* **Athreya, Siva R. et al., 2005d:60018**
Schlick, Tamar *see* **Zhang, Qing[5] et al.**
Schuurman, Petra *see* **Błażewicz, Jacek et al., (2005a:68015)**
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Sen, Pranab Kumar[1] *see* **Pinheiro, Hildete Prisco et al.**
Shakhnovich, Eugene I. *see* **Tannenbaum, Emmanuel et al., 2005f:92016**
Shi, Feng[1] *see* **He, Lian Lian et al.**
Smith, Andrew David *see* **Evans, Patricia A., (2005b:68005)**
Song, Siang W. *see* **Alves, C. E. R. et al., (2005g:65009)**
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Swigon, David *see* **Olson, Wilma K. et al., 2005b:92027**
Takahara, Akihiro (*with* Yokomori, Takashi) On the computational power of insertion-deletion systems. (English summary) **2005a:68067**
(Takeda, Masayuki) *see* **Combinatorial pattern matching, 2005a:68009**
Tang, Jijun (*with* Moret, Bernard M. E.) Phylogenetic reconstruction from gene-rearrangement data with unequal gene content. (English summary) (*see* **2005b:68005**)
Tannenbaum, Emmanuel (*with* Deeds, Eric J.; Shakhnovich, Eugene I.) Semiconservative replication in the quasispecies model. (English summary) **2005f:92016**
Touzet, Hélène *see* **Dulucq, Serge, (2005a:68010)**
Travers, A. A. The structural basis of DNA flexibility. (English summary) **2005b:92018**
Tsoka, Sophia *see* **Gilks, Walter R. et al.**
Tsur, Dekel Sequencing by hybridization in few rounds. (English summary) (*see* **2005c:68003**)
Ukkonen, Esko *see* **Koivisto, Mikko et al., 2005h:68078**
Usatenko, O. V. (*with* Yampol′skii, V. A.; Kechedzhy, K. E.; Mel′nyk, S. S.) Symbolic stochastic dynamical systems viewed as binary N-step Markov chains. (English summary) **2005a:82086**
Verbin, Elad *see* **Kaplan, Haim, (2005a:68010)**
Vinař, Tomáš *see* **Biedl, Therese et al., (2005a:05002)**
Vitányi, Paul M. B. *see* **Li, Ming[1] et al., 2005f:68028**
Wang, Lu Sheng (*with* Zhu, Da Ming; Liu, Xiao Wen; Ma, Shao Han) An $O(n^2)$ algorithm for signed translocation. (English summary) **2005k:68218**
— (*with* Zhao, Hao; Dong, Guozhu; Li, Jian Ping[3]) On the complexity of finding emerging patterns. (English summary) **2005m:68102**
— *see also* **Li, Ming[1] et al., 2005m:68256; (2005i:68003)** *and* **Deng, Xiao Tie et al., (2005a:68008)**
Wang, Meng[3] (*with* Yang, Jie[3]; Xu, Zhi-Jie; Chou, Kuo-Chen) SLLE for predicting membrane protein types. (English summary)
Wang, Yang[4] *see* **Che, Zhi-Zhong et al., 2005d:68142**
Wei, Xiaopeng *see* **Xu, Jin[2] et al.**
Wen, Jianjun *see* **Lin, Guo-Hui et al., (2005a:68007)**
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Wu, Jun Feng[2] *see* **Che, Zhi-Zhong et al., 2005d:68142**
Xie, Huimin *see* **Zhou, Chan**
Xu, Jin[2] (*with* Dong, Yafei; Wei, Xiaopeng) Sticker DNA computer model. I. theory. (English summary)
— (*with* Li, San Ping; Dong, Yafei; Wei, Xiaopeng) Sticker DNA computer model. II. Application. (English summary)
— *see also* **Pan, Lin Qiang et al.**
Xu, Zhi-Jie *see* **Wang, Meng[3] et al.**
Yakhini, Zohar *see* **Aumann, Yonatan et al., 2005k:92034**
Yampol′skii, V. A. *see* **Usatenko, O. V. et al., 2005a:82086**
Yanev, Nikolaĭ I. *see* **Andonov, Rumen et al., 2005g:92014**
Yang, I-Hsuan (*with* Huang, Chien-Pin; Chao, Kun-Mao) A fast algorithm for computing a longest common increasing subsequence. (English summary) **2005i:68098**
Yang, Jie[3] *see* **Wang, Meng[3] et al.**
Yiu, Siu-Ming *see* **Lam, Tak-Wah et al., (2005a:68012)**
Yokomori, Takashi Molecular computing paradigm—toward freedom from Turing's charm. (English summary) **2005a:68068**
— *see also* **Takahara, Akihiro, 2005a:68067**
Yuan, San Ling *see* **Jin, Zhen et al., 2005b:92056**
Zhang, Qing[5] (*with* Broyde, Suse; Schlick, Tamar) Deformations of promoter DNA bound to carcinogens help interpret effects on TATA-element structure and activity. (English summary)
Zhao, Hao *see* **Wang, Lu Sheng et al., 2005m:68102**
Zhou, Chan (*with* Xie, Huimin) Exact distribution of the occurrence number for K-tuples over an alphabet of non-equal probability letters. (English summary)
Zhou, Huai Bei *see* **He, Lian Lian et al.**
Zhu, Da Ming *see* **Wang, Lu Sheng et al., 2005k:68218**
Zhu, Hong[1] *see* **Qu, Huiqin et al.**

Items listed otherwise than by author

Combinatorial pattern matching ★ Combinatorial pattern matching. **2005a:68009**
—★ Combinatorial pattern matching. **2005a:68010**
Fukuoka ★ Combinatorial pattern matching. **2005a:68009**
Handbook:
Computational biology, compact ★ Compact handbook of computational biology. **2005j:92001**
Lecture Notes in Computer Science ★ Combinatorial pattern matching. **2005a:68009**
—★ Combinatorial pattern matching. **2005a:68010**
Morelia ★ Combinatorial pattern matching. **2005a:68010**

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Abia, L. M. (*with* Angulo, Oscar; López-Marcos, Juan Carlos) Size-structured population dynamics models and their numerical solutions. (English summary) **2005c:92022**
Abundo, Mario On the risk of extinction for a population subject to a random Markov evolution with jumps. (English summary) **2005b:92037**
Ackleh, Azmy S. (*with* Deng, Keng; Wang, Xubo) Competitive exclusion and coexistence for a quasilinear size-structured population model. (English summary) **2005i:92015**

Agarwal, Ravi P. *see* **Liu, Shengqiang et al., 2005a:92048**
Ahmed, Elsayed Mohamed (*with* Hegazi, A. S.; Elgazzar, A. S.) On persistence and stability of some biological systems with cross diffusion. (English summary)
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Albano, Ezequiel V. *see* **Rozenfeld, Alejandro F., 2005i:92024**
Aly, Shaban (*with* Farkas, M.) Competition in patchy environment with cross diffusion. (English summary) **2005b:92038**
Andriopoulos, K. *see* **Leach, P. G. L., 2005c:92027**
Angulo, Oscar (*with* López-Marcos, Juan Carlos) A numerical scheme for a size-structured cell population model. (English summary) (*see* **2005d:92001**)
— *see also* **Abia, L. M. et al., 2005c:92022**
Aniţa, Sebastian[2] (*with* Arnăutu, Viorel) Some aspects concerning the linear age-dependent population dynamics. (English summary) **2005m:92030**
Antia, Rustom *see* **Pilyugin, Sergei S. et al.**
Aoki, Shigeyuki (*with* Kurosu, Utako) How many soldiers are optimal for an aphid colony? (English summary)
Arnăutu, Viorel *see* **Aniţa, Sebastian[2], 2005m:92030**
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Arribas, María *see* **Manrubia, Susanna C. et al.**
Aurelio, F. *see* **Fergola, Paolo et al., (2005c:00016)**
Azbel', Mark Ya. Universal mortality law and immortality. (English summary)
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Babak, Petro *see* **Magnússon, Kjartan G. et al., 2005b:92045**
Baglama, J. *see* **Jang, Ruey-Jen et al., 2005m:92037**
Bai, Ling (*with* Fan, Meng[1]; Wang, Ke[1]) Existence of positive periodic solution for difference equations of a cooperative system. (Chinese. English and Chinese summaries)
— (*with* Shuai, Zhisheng; Wang, Ke[1]) Optimal impulsive harvest policy for an autonomous system. (English summary) **2005a:92040**
Balthazar, José Manoel *see* **Rafikov, Marat**
Bandyopadhyay, Malay (*with* Chattopadhyay, Joydev) Ratio-dependent predator-prey model: effect of environmental fluctuation and stability. (English summary) **2005k:92045**
Baranyi, József *see* **Kutalik, Zoltán et al.**
Barbour, A. D. (*with* Pugliese, Andrea) Convergence of a structured metapopulation model to Levins's model. (English summary) **2005h:92021**
Barker, Richard J. (*with* Burnham, Kenneth P.; White, Gary C.) Encounter history modeling of joint mark-recapture, tag-resighting and tag-recovery data under temporary emigration. (English summary)
Baurmann, Martin (*with* Ebenhöh, Wolfgang; Feudel, Ulrike) Turing instabilities and pattern formation in a benthic nutrient-microorganism system. (English summary)
Baxter, Gareth (*with* McKane, Alan J.; Tarlie, Martin B.) Quantifying stochastic outcomes. (English summary) **2005k:92046**
Bellomo, Nicola (*with* Bellouquid, Abdelghani; Delitala, Marcello) Mathematical topics on the modelling complex multicellular systems and tumor immune cells competition. (English summary) **2005g:92028**
Bellouquid, Abdelghani *see* **Bellomo, Nicola et al., 2005g:92028**
Biktashev, Vadim N. *see* **Tsyganov, M. A., 2005j:92026**
Bley, Th. *see* **Walther, Thomas[2] et al.**
Bogatyrev, S. V. Bifurcations of stationary solutions in a predator-prey model with switching. (Russian. English and Russian summaries) **2005i:92016**
Boyce, Mark S. *see* **Xu, Cailin et al.**
Braselton, James (*with* Huband, Jacalyn; Braselton, Lorraine) Incorporating mating preferences into a host-parasite model. (English summary) **2005g:92029**
Braselton, Lorraine *see* **Braselton, James et al., 2005g:92029**
Bressloff, Paul C. Euclidean shift-twist symmetry in population models of self-aligning objects. (English summary) **2005c:92023**
Brown, Sharon (*with* Dockery, Jack D.; Pernarowski, M.) Traveling wave solutions of a reaction diffusion model for competing pioneer and climax species. (English summary) **2005k:92047**
Brumer, Yisroel (*with* Shakhnovich, Eugene I.) Host-parasite coevolution and optimal mutation rates for semiconservative quasispecies. (English summary) **2005e:92033**
Buceta, J. *see* **Escudero, Carlos[2] et al., 2005f:92020**
Buffoni, G. Predator-prey systems with ratio dependent trophic function. (English summary)
— (*with* Pasquali, S.; Gilioli, G.) A stochastic model for the dynamics of a stage structured population. (English summary) **2005b:92039**
Buonomo, Bruno (*with* Lacitignola, Deborah) New sufficient conditions for global stability of a basic model describing population growth in a polluted environment. (English summary) (*see* **2005i:00016**)
Burnham, Kenneth P. *see* **Barker, Richard J. et al.**
Cannings, Chris *see* **Haccou, Patsy et al.**
Capasso, Vincenzo *see* **Morale, Daniela et al., 2005i:92022**
Caraco, Thomas *see* **Korniss, György**
Carrillo, C. (*with* Fife, P.) Spatial effects in discrete generation population models. (English summary) **2005k:92048**
Cerasuolo, M. *see* **Fergola, Paolo et al., (2005c:00016)**
Chan, D. M. (*with* Franke, J. E.) Probabilities of extinction, weak extinction, permanence, and mutual exclusion in discrete, competitive, Lotka-Volterra systems that involve invading species. (English summary) **2005g:92030**
Chaplain, Mark A. J. *see* **Xu, Rui[2] et al., 2005b:92051**
Chattopadhyay, Joydev *see* **Bandyopadhyay, Malay, 2005k:92045**
Chaudhuri, K. S. *see* **Kar, Tapan Kumar[2], 2005g:92032**
Chen, Feng De (*with* Shi, Jin Lin; Chen, Xiao Xing) Positive periodic solution of a predator-prey system with several delays. (Chinese. English and Chinese summaries) **2005m:92031**
Chen, Jie[1] (*with* Pan, Feng[3]; Tu, Xuyan) Stability analysis of particle swarm optimization without Lipschitz constraint. (English summary)
Chen, Lan Sun *see* **Liu, Shengqiang et al., 2005a:92048; Tang, Sanyi, 2005a:92052; Xu, Rui[2] et al., 2005b:92051; Gao, Shujing, 2005c:92026; 2005h:92024; Duan, Lixia et al., 2005h:92022; Liu, Bing[3] et al., 2005m:92040; Zhang, Shuwen; Hui, Jing** *and* **Zhang, Yu Juan et al.**
Chen, Ren Zhao (*with* Li, Jian Quan[2]) Existence and uniqueness of solutions to nonlinear age-dependent time-varying population evolution equations. (Chinese. English and Chinese summaries)
— *see also* **Li, Jian Quan[2]**
Chen, Si Yang *see* **Yu, Sheng Ping et al.** *and* **Wei, Zhao Ying**
Chen, Tong Wen *see* **Chu, Tianguang et al.**
Chen, Xiao Xing *see* **Chen, Feng De et al., 2005m:92031**
Chen, Xiao Ying Qualitative analysis of a predator-prey system with non-monotone increase rate and functional response. (Chinese. English and Chinese summaries) **2005m:92032**
Cheng, Han Wen *see* **Jiang, Li Qiang et al.**
Cheng, Sui Sun *see* **Li, Wan Tong, 2005c:92028**
Chereshnev, V. A. *see* **Novoselov, A. V. et al.**
Chu, Tianguang (*with* Wang, Long[1]; Chen, Tong Wen) Self-organized motion in anisotropic swarms. (English summary)
Coe, J. B. (*with* Mao, Yong) Population dynamics in the Penna model. (English summary) **2005e:92034**
Courteau, Josiane (*with* Lessard, Sabin) Sex ratio evolution through group selection using diffusion approximation. (English summary) **2005a:92041**
Crowley, Philip H. (*with* Stieha, Christopher R.; Nicholas McLetchie, D.) Overgrowth competition, fragmentation and sex-ratio dynamics: a spatially explicit, sub-individual-based model. (English summary)
Cui, Jing An (*with* Takeuchi, Yasuhiro; Lin, Zhen Shan) Permanence and extinction for dispersal population systems. (English summary) **2005f:92019**
— (*with* Takeuchi, Yasuhiro) Permanence of a single-species dispersal system and predator survival. (English summary) **2005m:92033**
— *see also* **Song, Xin Yu, 2005a:92051** *and* **He, Zhao Hui**
Daher Okiye, Madina (*with* Aziz-Alaoui, M. A.) On the dynamics of a predator-prey model with the Holling-Tanner functional response. (English summary) (*see* **2005d:92001**)
Dăng Vũ Giang *see* **Lenbury, Yongwimon, 2005h:92027**
Davydova, Natalia Semelparous species: switching between coexistence and exclusion. (English summary) (*see* **2005d:92001**)
— (*with* Diekmann, Odo; van Gils, S. A.) On circulant populations. I. The algebra of semelparity. (English summary) **2005k:92049**
De Leenheer, Patrick (*with* Li, Bingtuan; Smith, Hal L.) Competition in the chemostat: some remarks. **2005k:92050**
Delitala, Marcello *see* **Bellomo, Nicola et al., 2005g:92028**
Deng, Keng *see* **Ackleh, Azmy S. et al., 2005i:92015**
Dereksdóttir, Eva Hlín *see* **Magnússon, Kjartan G. et al., 2005b:92045**
Deutsch, Andreas *see* **Walther, Thomas[2] et al.**
Deutsch, Peter A. *see* **Peet, Alison B. et al.**
Diekmann, Odo *see* **Davydova, Natalia et al., 2005k:92049**
Dimitrov, Dobromir T. (*with* Kojouharov, Hristo V.) Complete mathematical analysis of predator-prey models with linear prey growth and Beddington-DeAngelis functional response. (English summary)
Ding, Wei[3] (*with* Han, Mao An) Traveling waves for a diffusive population models with time delays. (English and Chinese summaries) **2005k:92051**
Dockery, Jack D. *see* **Brown, Sharon et al., 2005k:92047**
Doering, Charles R. (*with* Sargsyan, Khachik V.; Sander, Leonard M.) Extinction times for birth-death processes: exact results, continuum asymptotics, and the failure of the Fokker-Planck approximation. (English summary) **2005j:92021**
Domokos, Gábor (*with* Scheuring, István) Discrete and continuous state population models in a noisy world. (English summary)
Donati, Silvia (*with* Totaro, Silvia; Lisi, Meri) A mathematical model for a sole larval population with two time scales. (English summary) (*see* **2005c:00016**)
Doncaster, C. Patrick *see* **Schley, David et al.**
Dou, Xiang-Hua *see* **Wang, Ji-Hua et al.**
Drossel, Barbara (*with* McKane, Alan J.; Quince, Christopher) The impact of nonlinear functional responses on the long-term evolution of food web structure. (English summary)
Du, Yihong Spatial patterns for population models in a heterogeneous environment. (English summary) **2005e:92035**
Duan, Lixia (*with* Lu, Qishao; Yang, Zaizhong; Chen, Lan Sun) Effects of diffusion on a stage-structured population in a polluted environment. (English summary) **2005h:92022**
Ebenhöh, Wolfgang *see* **Baurmann, Martin et al.**
Elgazzar, A. S. *see* **Ahmed, Elsayed Mohamed et al.**
Ellermeyer, Sean Analysis of a class of Monod-like functions that link specific growth rate to delayed growth response. (English summary) **2005k:92052**
Elmabruk, Idrish H. (*with* Arora, H. L.) Stability and stability switching in 3-species model with delays. (English summary)
— Hopf-bifurcation and stability of a 2-predators, 1-prey system. (English summary)
— Persistence in a 3-species predator-prey model. (English summary)
El-Owaidy, Hassan M. (*with* Moniem, Ashraf A.) On food chain in a chemostat with distinct removal rates. (English summary) **2005c:92024**
Elser, James J. *see* **Kuang, Yang et al., 2005k:92056**
Engen, Steinar (*with* Lande, Russell; Sæther, Bernt-Erik; Weimerskirch, Henri) Extinction in relation to demographic and environmental stochasticity in age-structured models. (English summary) **2005m:92034**
Eppert, A. *see* **Feng, Zhi Lan et al.**
Escudero, Carlos[2] (*with* Buceta, J.; de la Rubia, F. J.; Lindenberg, Katja) Extinction in population dynamics. (English summary) **2005f:92020**
Evans, Steven N. *see* **Steinsaltz, David et al., 2005m:92045**
Fan, Meng[1] *see* **Ye, Dan et al.** *and* **Bai, Ling et al.**
Farkas, M. *see* **Aly, Shaban, 2005b:92038**
Feng, Bei Ye Saddle-node invariant loop in the model of mitosis in frog eggs and its bifurcation. (Chinese. English and Chinese summaries) **2005b:92040**
Feng, Zhi Lan (*with* Eppert, A.; Milner, F. A.; Minchella, D. J.) Estimation of parameters governing the transmission dynamics of schistosomes. (English summary)
— (*with* Swihart, Robert; Yi, Yingfei; Zhu, Huaiping) Coexistence in a metapopulation

model with explicit local dynamics. (English summary) **2005k:92053**

— (*with* Li, Cheng-Che; Milner, F. A.) Schistosomiasis models with two migrating human groups. (English summary)

Fergola, Paolo (*with* Aurelio, F.; Cerasuolo, M.; Noviello, A.) Andrews nutrient uptake and linear quorum sensing in allelopathic competition models. (English summary) (*see* **2005c:00016**)

Feudel, Ulrike *see* **Baurmann, Martin et al.**

Fife, P. *see* **Carrillo, C., 2005k:92048**

Fletcher, Jeffrey A. (*with* Zwick, Martin) Strong altruism can evolve in randomly formed groups. (English summary)

Franke, J. E. *see* **Chan, D. M., 2005g:92030**

Frolova, Yu. V. *see* **Korobitsyn, V. V., (2005c:00015)**

Gadgil, Madhav *see* **Xu, Cailin et al.**

Gakkhar, Sunita (*with* Kamel Naji, Ra'id) Order and chaos in predator to prey ratio-dependent food chain. (English summary) **2005c:92025**

—* (*with* Singh, Brahampal) Complex dynamic behavior in a food web consisting of two preys and a predator. (English summary) **2005h:92023**

Gani, Joseph M. Stochastic compartmental models for diabetes. (English summary) **2005g:92031**

Ganusov, V. V. *see* **Pilyugin, Sergei S. et al.**

Gao, Shujing (*with* Chen, Lan Sun) Dynamic complexities in a single-species discrete population model with stage structure and birth pulses. (English summary) **2005c:92026**

— (*with* Chen, Lan Sun) The effect of seasonal harvesting on a single-species discrete population model with stage structure and birth pulses. (English summary) **2005h:92024**

Ge, Wei Gao *see* **Gui, Zhan Ji, 2005k:92054**

Geritz, Stefan A. H. (*with* Kisdi, Éva) On the mechanistic underpinning of discrete-time population models with complex dynamics. (English summary)

— Resident-invader dynamics and the coexistence of similar strategies. (English summary) **2005m:92035**

Ghaleb, A. F. *see* **Khan, Q. J. A., 2005a:92044**

Gilioli, G. *see* **Buffoni, G. et al., 2005b:92039**

van Gils, S. A. *see* **Davydova, Natalia et al., 2005k:92049**

Glaizot, Olivier *see* **Haccou, Patsy et al.**

Gourley, Stephen A. (*with* Kuang, Yang) A stage structured predator-prey model and its dependence on maturation delay and death rate. (English summary) **2005m:92036**

Greenman, J. V. *see* **Ireland, J. M. et al.**

Große, André *see* **Walther, Thomas[2] et al.**

Grover, James P. Predation, competition, and nutrient recycling: a stoichiometric approach with multiple nutrients. (English summary)

Gudmundsson, Stefán F. *see* **Magnússon, Kjartan G. et al., 2005b:92045**

Gui, Zhan Ji (*with* Ge, Wei Gao) Permanence and stability for a predator-prey system with diffusion and time delay. (Chinese. English and Chinese summaries) **2005k:92054**

Guiaş, Flavius Stochastic models for population dynamics with nonlinear interaction and their deterministic limits. (English summary) (*see* **2005d:92001**)

Guo, Zheng Guang (*with* Wei, Fu Yi[2]; Zhang, Guo Quan; Huang, Shou Shan) An investigation of an insect population matrix model with absorbing states. (Chinese. English and Chinese summaries)

Gupta, Shakti (*with* Pilyugin, Sergei S.; Narang, Atul) The dynamics of single-substrate continuous cultures: the role of ribosomes. (English summary)

Gusev, E. Yu. *see* **Novoselov, A. V. et al.**

Gyllenberg, Mats (*with* Meszéna, Géza) On the impossibility of coexistence of infinitely many strategies. (English summary) **2005i:92017**

Haccou, Patsy (*with* Glaizot, Olivier; Cannings, Chris) Patch leaving strategies and superparasitism: an asymmetric generalized war of attrition. (English summary)

— *see also* **Yokomizo, Hiroyuki et al.**

Hadjiavgousti, Despina (*with* Ichtiaroglou, Simos) Existence of stable localized structures in population dynamics through the Allee effect. (English summary) **2005b:92041**

Han, Mao An *see* **Song, Yong Li et al., 2005g:92036** *and* **Ding, Wei[3], 2005k:92051**

Hanaki, Ken-ichi *see* **Komoto, Atsushi et al.**

Harada, Yasushi *see* **Sakai, Satoki**

Harris, Stewart Michael Diffusive logistic population growth with immigration. (English summary) **2005i:92018**

He, Ze Rong (*with* Wang, Mian Sen; Ma, Zhi En) Optimal birth control problems for nonlinear age-structured population dynamics. (English summary) **2005b:92042**

— (*with* Peng, Qin Wen) Stability of a nonlinear population model with age-dependence. (Chinese. English and Chinese summaries)

He, Zhao Hui (*with* Cui, Jing An) Permanence of predator-prey system with stage structure. (Chinese. English and Chinese summaries)

Hegazi, A. S. *see* **Ahmed, Elsayed Mohamed et al.**

Hernández-García, Emilio *see* **López, Cristóbal, 2005h:92028**

Hiebeler, David Spatially correlated disturbances in a locally dispersing population model. (English summary)

Hindar, Kjetil *see* **Tufto, Jarle, 2005a:92053**

Holmström, Kerstin (*with* Jensen, Henrik Jeldtoft) Who runs fastest in an adaptive landscape: sexual versus asexual reproduction. (English summary)

Huang, Jian Ke *see* **Yu, Sheng Ping et al.**

Huang, Shou Shan *see* **Guo, Zheng Guang et al.**

Huband, Jacalyn *see* **Braselton, James et al., 2005g:92029**

Hui, Jing (*with* Chen, Lan Sun) Extinction and permanence of a predator-prey system with impulsive effect. (English and Chinese summaries)

Huisman, Jef *see* **Kuang, Yang et al., 2005k:92056**

Huo, Hai Feng (*with* Li, Wan Tong) Existence and global stability of periodic solutions of a discrete predator-prey system with delays. (English summary) **2005a:92042**

— (*with* Li, Wan Tong) Periodic solution of a delayed predator-prey system with Michaelis-Menten type functional response. (English summary) **2005a:92043**

Ichtiaroglou, Simos *see* **Hadjiavgousti, Despina, 2005b:92041**

Imran, Mudassar (*with* Jones, Don A.; Smith, Hal L.) Biofilms and the plasmid maintenance question. (English summary) **2005i:92019**

Ireland, J. M. (*with* Norman, Rachel Ann; Greenman, J. V.) The effect of seasonal host birth rates on population dynamics: the importance of resonance. (English summary)

(Isoda, Yutaka) *see* **Errata: "Evolution of cannibalism: referring to costs of cannibalism"**

Iwasa, Yoh *see* **Yokomizo, Hiroyuki et al.**

Iwunor, Charles C. O. A comparative study of some growth models for sterile male technique. (English summary) **2005b:92043**

Jang, Ruey-Jen A discrete, hierarchically-structured population model. (English summary) **2005i:92020**

— (*with* Baglama, J.; Seshaiyer, Padmanabhan) Intratrophic predation in a simple food chain with fluctuating nutrient. (English summary) **2005m:92037**

Jemmer, P. (*with* McNamee, J.) From the discrete to the continuous: relationships and results for single-species population models. (English summary)

Jensen, Henrik Jeldtoft *see* **Holmström, Kerstin**

Jiang, Guirong (*with* Lu, Qishao; Peng, Linping) Impulsive ecological control of a stage-structured pest management system. (English summary) **2005m:92038**

Jiang, Li Qiang (*with* Wang, Gui Hua; Cheng, Han Wen; Jing, Yao Jie) Global stability of a chemostat model with delayed nutrient recycling. (Chinese. English and Chinese summaries)

Jin, Yongdong (*with* Xu, Jiuping; Zhang, Wenhua; Luo, Jiuli; Xu, Qiwang) Simulation of biological waves in single-species bacillus system governed by birth and death-diffusion dynamical equation. (English summary)

Jing, Yao Jie *see* **Jiang, Li Qiang et al.**

Jones, Don A. *see* **Imran, Mudassar et al., 2005i:92019**

Jones, Laura E. *see* **Yakubu, Abdul-Aziz et al.**

Jönsson, Henrik[2] (*with* Levchenko, Andre) An explicit spatial model of yeast microcolony growth. (English summary)

Joshi, B. K. *see* **Pawar, Nayna**

Kamel Naji, Ra'id *see* **Gakkhar, Sunita, 2005c:92025**

Kar, Tapan Kumar[2] (*with* Chaudhuri, K. S.) On selective harvesting of two competing fish species in the presence of environmental fluctuation. (English summary) **2005g:92032**

— Stability analysis of a prey-predator model incorporating a prey refuge. (English summary) **2005m:92039**

Karsai, János *see* **Rácz, Éva V. P., 2005b:92049**

Khan, Q. J. A. (*with* Ghaleb, A. F.) A study of prey-predator relations for mammals. (English summary) **2005a:92044**

Khritonenko, N. V. Qualitative analysis of integral dynamic model of age-structured population with intra-species competition. (English summary) **2005j:92022**

Kim, A. V. *see* **Novoselov, A. V. et al.**

Kipnis, M. M. (*with* Vaguina, M. Yu.) Stability of a logistic population model with delays in the environmental response. (Russian. Russian summary) **2005g:92033**

Kirkland, Steve Sensitivity of the stable distribution vector for a size-classified population model. (English summary) **2005i:92021**

Kisdi, Éva *see* **Geritz, Stefan A. H.**

Kojouharov, Hristo V. *see* **Dimitrov, Dobromir T.**

Kolesov, Yu. S. (*with* Peretrukhin, A. G.) Properties of relaxation oscillations of a biophysical problem. (Russian) **2005k:92055**

Komoto, Atsushi (*with* Hanaki, Ken-ichi; Maenosono, Shinya; Wakano, Joe Yuichiro; Yamaguchi, Yukio[1]; Yamamoto, Kenji) Growth dynamics of *Bacillus circulans* colony. (English summary)

— *see also* **Wakano, Joe Yuichiro et al.**

Kon, Ryusuke (*with* Saito, Yasuhisa; Takeuchi, Yasuhiro) Permanence of single-species stage-structured models. (English summary) **2005a:92045**

— *see also* **Nguyễn Hữu Du' et al., 2005d:92018**

Kooi, Bob W. (*with* Kuijper, L. D. J.; Kooijman, Sebastiaan A. L. M.) Consequences of symbiosis for food web dynamics. (English summary) **2005h:92025**

Kooijman, Sebastiaan A. L. M. *see* **Kooi, Bob W. et al., 2005h:92025**

Korniss, György (*with* Caraco, Thomas) Spatial dynamics of invasion: the geometry of introduced species. (English summary)

Korobitsyn, V. V. (*with* Frolova, Yu. V.) Mathematical modelling the ethnic system. (English summary) (*see* **2005c:00015**)

Kovács, Sándor Delay in decision making causes oscillation. (English summary) **2005g:92034**

Kribs-Zaleta, Christopher M. To switch or taper off: the dynamics of saturation. (English summary) **2005h:92026**

Kuang, Yang (*with* Huisman, Jef; Elser, James J.) Stoichiometric plant-herbivore models and their interpretation. (English summary) **2005k:92056**

— *see also* **Gourley, Stephen A., 2005m:92036**

Kuijper, L. D. J. *see* **Kooi, Bob W. et al., 2005h:92025**

Kulenović, Mustafa R. S. (*with* Yakubu, Abdul-Aziz) Compensatory versus overcompensatory dynamics in density-dependent Leslie models. (English summary) **2005f:92021**

Kurosu, Utako *see* **Aoki, Shigeyuki**

Kutalik, Zoltán (*with* Razaz, Moe; Baranyi, József) Connection between stochastic and deterministic modelling of microbial growth. (English summary)

Lacitignola, Deborah (*with* Tebaldi, Claudio[1]) N-species competitive Lotka-Volterra systems with adaptation. (English summary) (*see* **2005d:92001**)

— *see also* **Buonomo, Bruno, (2005i:00016)**

Lakshminarayanan, E. S. (*with* Pitchaimani, M.) Existence of Gompertz parameters and its asymptotic formulae for a large population. (English summary) **2005g:92035**

Lande, Russell *see* **Engen, Steinar et al., 2005m:92034**

Lateefunnisa, Syeda Population based mathematical models for the growth of population for world, India and Andhra Pradesh. (English summary)

Lázaro, Ester *see* **Manrubia, Susanna C. et al.**

Leach, P. G. L. (*with* Andriopoulos, K.) An oscillatory population model. (English summary) **2005c:92027**

Lega, J. (*with* Passot, T.) Hydrodynamics of bacterial colonies: phase diagrams. (English summary)

Lenbury, Yongwimon (*with* Dăng Vũ Giang) Nonlinear delay differential equations involving population growth. (English summary) **2005h:92027**

Lessard, Sabin *see* **Courteau, Josiane, 2005a:92041**

Levchenko, Andre *see* **Jönsson, Henrik[2]**

Lewis, David M. A simple model of plankton population dynamics coupled with a LES of the surface mixed layer. (English summary)

Li, Bi Wen (*with* Yu, Sheng Li; Zeng, Xian Wu) Some new results of autonomous Lotka-Volterra N-species competitive systems. (Chinese. English and Chinese summaries)
Li, Bingtuan *see* **De Leenheer, Patrick et al., 2005k:92050**
Li, Cheng-Che *see* **Feng, Zhi Lan et al.**
Li, Chun Guang *see* **Li, Shaowen et al., 2005f:92022**
Li, Dianmo (*with* Zhang, Zhen; Ma, Zufei; Xie, Baoyu; Wang, Rui) Allee effect and a catastrophe model of population dynamics. (English summary)
— *see also* **Ma, Zufei et al.**
Li, Jia[2] Simple mathematical models for interacting wild and transgenic mosquito populations. (English summary) **2005a:92046**
Li, Jian Quan[2] (*with* Chen, Ren Zhao) Optimal distributed control of a population system with spatial diffusion and age-structure. (Chinese. English and Chinese summaries)
— *see also* **Chen, Ren Zhao**
Li, Shaowen (*with* Liao, Xiaofeng; Li, Chun Guang) Hopf bifurcation in a Volterra prey-predator model with strong kernel. (English summary) **2005f:92022**
Li, Wan Tong (*with* Cheng, Sui Sun) Asymptotic properties of the positive equilibrium of a discrete survival model. (English summary) **2005c:92028**
— Global stability and oscillation in nonlinear difference equations of population dynamics. (English summary) **2005d:92016**
— *see also* **Huo, Hai Feng, 2005a:92042** *and* **2005a:92043**
Li, Yi Ping *see* **Ou, Liu Man**
Liadi, M. A. An example of nonlinearly interacting age-dependent populations. (English summary) **2005a:92047**
Liao, Xiaofeng *see* **Li, Shaowen et al., 2005f:92022**
Lin, Zhen Shan *see* **Cui, Jing An et al., 2005f:92019**
Lindenberg, Katja *see* **Escudero, Carlos**[2] **et al., 2005f:92020**
Lisi, Meri *see* **Donati, Silvia et al., (2005c:00016)**
Liu, Bing[3] (*with* Zhang, Yu Juan; Chen, Lan Sun) Dynamic complexities in a Lotka-Volterra predator-prey model concerning impulsive control strategy. (English summary) **2005m:92040**
— *see also* **Liu, Hui Min et al.**
Liu, Hui Min (*with* Liu, Bing[3]; Liu, Shuang) A three-species clockwise chain predator-prey model with Holling IV functional response. (Chinese. English and Chinese summaries)
Liu, Jing[3] (*with* Zheng, Si Ning) Coexistence of steady states to a multiple food chain model in an unstirred chemostat. (Chinese. English and Chinese summaries)
Liu, Qi Ming[2] (*with* Zhou, Hai Yun) Existence and global attractivity of periodic solutions in n-species food-chain system with time delays. (English summary) **2005d:92017**
— (*with* Xu, Rui[2]) Periodic solution of a discrete time periodic three-species food-chain model with functional response and time delays. (English summary) **2005m:92041**
— (*with* Yang, Jian Fa) Persistence and global stability for a predator-prey system with time delays and diffusion. (Chinese. English and Chinese summaries)
— (*with* Xu, Rui[2]) Periodic solutions in n-species ratio-dependent food chain model with time delays. (English summary) **2005k:92057**
Liu, Shengqiang (*with* Chen, Lan Sun; Agarwal, Ravi P.) Harmless and profitless delays in discrete competitive Lotka-Volterra systems. (English summary) **2005a:92048**
Liu, Shuang *see* **Liu, Hui Min et al.**
Liu, Zhi Jun[2] Positive solution for two species competitive system with effect of toxicant and neutral delay. (English and Chinese summaries)
— Positive periodic solution of a neutral delay multispecies ecological competitive system. (Chinese. English and Chinese summaries) **2005m:92042**
López, Cristóbal (*with* Hernández-García, Emilio) Fluctuations impact on a pattern-forming model of population dynamics with non-local interactions. (English summary) **2005h:92028**
López-Marcos, Juan Carlos *see* **Abia, L. M. et al., 2005c:92022** *and* **Angulo, Oscar, (2005d:92001)**
Lozhnikov, A. B. *see* **Novoselov, A. V. et al.**
Lu, Qishao *see* **Duan, Lixia et al., 2005h:92022** *and* **Jiang, Guirong et al., 2005m:92038**
Luo, Jiuli *see* **Jin, Yongdong et al.**
Luo, Zhi Xue (*with* Wang, Mian Sen) Optimal harvesting control problem for linear age-dependent population dynamics. (English summary) **2005b:92044**
Ma, Zhi En *see* **He, Ze Rong et al., 2005b:92042**
Ma, Zufei (*with* Li, Dianmo; Xie, Baoyu) Is there a sigmoid growth of Gause's *Paramecium caudatum* in constant environment. (English summary)
— *see also* **Li, Dianmo et al.**
Maenosono, Shinya *see* **Komoto, Atsushi et al.**
Magnússon, Kjartan G. (*with* Sigurdsson, Sven Th.; Babak, Petro; Gudmundsson, Stefán F.; Dereksdóttir, Eva Hlín) A continuous density Kolmogorov type model for a migrating fish stock. (English summary) **2005b:92045**
Maiti, Alakes *see* **Samanta, G. P., 2005d:92020**
Manfredi, Piero (*with* Williams, John Robert) Realistic population dynamics in epidemiological models: the impact of population decline on the dynamics of childhood infectious diseases: Measles in Italy as an example. (English summary)
Manrubia, Susanna C. (*with* Arribas, María; Lázaro, Ester) Supercritical branching processes and the role of fluctuations under exponential population growth. (English summary)
Mao, Yong *see* **Coe, J. B., 2005e:92034**
Martsenyuk, Vasil' P. Integrodifferential models with memory in problems of population dynamics. (Russian. English, Russian and Ukrainian summaries) **2005k:92058**
McKane, Alan J. (*with* Newman, T. J.) Stochastic models in population biology and their deterministic analogs. (English summary) **2005j:92023**
— *see also* **Baxter, Gareth et al., 2005k:92046** *and* **Drossel, Barbara et al.**
McNamee, J. *see* **Jemmer, P.**
Meszéna, Géza *see* **Gyllenberg, Mats, 2005i:92017**
Miękisz, Jacek Equilibrium selection in evolutionary games with random matching of players. (English summary)
Milner, F. A. *see* **Feng, Zhi Lan et al.**
Minchella, D. J. *see* **Feng, Zhi Lan et al.**
Mjølhus, E. (*with* Wikan, Arild; Solberg, T.) On synchronization in semelparous populations. (English summary) **2005m:92043**
Moniem, Ashraf A. *see* **El-Owaidy, Hassan M., 2005c:92024**
Morale, Daniela (*with* Capasso, Vincenzo; Oelschläger, Karl) An interacting particle system modelling aggregation behavior: from individuals to populations. (English summary) **2005i:92022**
Morrison, Margaret Population genetics and population thinking: mathematics and the role of the individual. (English summary)
Murali-Krishna, Kaja *see* **Pilyugin, Sergei S. et al.**
Nanjundiah, Vidyanand *see* **Xu, Cailin et al.**
Narang, Atul *see* **Pilyugin, Sergei S. et al., 2005j:92024**; **2005j:92025** *and* **Gupta, Shakti et al.**
Nedorezov, L. V. (*with* Sadykov, A. M.) The effect of periodic perturbations on population dynamics with overlapping generations. (Russian. English summary) **2005h:92029**
Newman, T. J. *see* **McKane, Alan J., 2005j:92023**
Nguyễn Hữu Du[2] (*with* Kon, Ryusuke; Sato, Kazunori; Takeuchi, Yasuhiro) Dynamical behavior of Lotka-Volterra competition systems: non-autonomous bistable case and the effect of telegraph noise. (English summary) **2005d:92018**
Nicholas McLetchie, D. *see* **Crowley, Philip H. et al.**
(Nishimura, Kinya) *see* **Errata: "Evolution of cannibalism: referring to costs of cannibalism"**
Norman, Rachel Ann *see* **Ireland, J. M. et al.**
Noviello, A. *see* **Fergola, Paolo et al., (2005c:00016)**
Novoselov, A. V. (*with* Lozhnikov, A. B.; Chereshnev, V. A.; Sergeev, Alexander G.; Kim, A. V.; Gusev, E. Yu.; Pimenov, V. G.) Mathematical modelling of mutant accumulation kinetics in a cloned viral population. (English summary)
Novozhilov, A. S. Analysis of a generalized population predator-prey model with a parameter of normal distribution over individuals of the predator population. (Russian. Russian summary) **2005i:92023**
Oelschläger, Karl *see* **Morale, Daniela et al., 2005i:92022**
Ostermann, K. *see* **Walther, Thomas**[2] **et al.**
Ou, Liu Man (*with* Li, Yi Ping) Global asymptotic behaviors of an exploited predator-prey system with stage-structure. (Chinese. English and Chinese summaries)
Painter, Kevin J. (*with* Sherratt, Jonathan A.) Modelling the movement of interacting cell populations. (English summary)
Pan, Feng[3] *see* **Chen, Jie**[1] **et al.**
Paradis, Emmanuel Can extinction rates be estimated without fossils? (English summary)
Pasquali, S. *see* **Buffoni, G. et al., 2005b:92039**
Passot, T. *see* **Lega, J.**
Pawar, Nayna (*with* Joshi, B. K.) A note on modified logistic law of population growth and decay. (English summary)
Peacock-López, Enrique *see* **Peet, Alison B. et al.**
Peet, Alison B. (*with* Deutsch, Peter A.; Peacock-López, Enrique) Complex dynamics in a three-level trophic system with intraspecies interaction. (English summary)
Peng, Linping *see* **Jiang, Guirong et al., 2005m:92038**
Peng, Qin Wen *see* **He, Ze Rong**
Peng, Yahong[1] *see* **Song, Yong Li et al., 2005g:92036**
Peretrukhin, A. G. *see* **Kolesov, Yu. S., 2005k:92055**
Pernarowski, M. *see* **Brown, Sharon et al., 2005k:92047**
Petrakis, Andreas L. The steady states in the Spruce Budworm model: the general case. (English summary)
Piazzera, Susanna An age-dependent population equation with delayed birth process. (English summary) **2005b:92046**
Pilyugin, Sergei S. (*with* Ganusov, V. V.; Murali-Krishna, Kaja; Ahmed, Rafi; Antia, Rustom) The rescaling method for quantifying the turnover of cell populations. (English summary)
— (*with* Reeves, Gregory T.; Narang, Atul) Predicting stability of mixed microbial cultures from single species experiments. I. Phenomenological model. (English summary) **2005j:92024**
— (*with* Reeves, Gregory T.; Narang, Atul) Predicting stability of mixed microbial cultures from single species experiments. II. Physiological model. (English summary) **2005j:92025**
— *see also* **Gupta, Shakti et al.**
Pimenov, V. G. *see* **Novoselov, A. V. et al.**
Pitchaimani, M. *see* **Lakshminarayanan, E. S., 2005g:92035**
Plutynski, Anya Explanation in classical population genetics. (English summary)
Pollak, Edward Malthusian parameters, reproductive values and change under selection in self fertilizing age-structured populations. (English summary) **2005b:92047**
Postolică, Vasile (*with* Scarelli, Antonino; Venzi, Lorenzo) New proposals for the study of the equilibria in the fish wars using the splines in H-locally convex spaces and Pareto efficiency. (English summary)
Provata, A. *see* **Tsekouras, G. A. et al., 2005f:92023**
Pugliese, Andrea *see* **Barbour, A. D., 2005h:92021**
Qiu, Zhi Peng[1] (*with* Yu, Jun[1]; Zou, Yun) The asymptotic behavior of a chemostat model. (English summary) **2005b:92048**
— (*with* Yu, Jun[1]; Zou, Yun) Global existence of periodic solution of a competition Lotka-Volterra model. (Chinese. English and Chinese summaries)
— (*with* Wang, Kai Fa; Zou, Yun) The asymptotic behavior of flow reactor models with two nutrients. (English summary)
Quince, Christopher *see* **Drossel, Barbara et al.**
Rácz, Éva V. P. (*with* Karsai, János) Computer simulation results for cellular automata models of some ecological systems. (English summary) **2005b:92049**
Rafikov, Marat (*with* Balthazar, José Manoel) Optimal pest control problem in population dynamics. (English summary)
Razaz, Moe *see* **Kutalik, Zoltán et al.**
Reeves, Gregory T. *see* **Pilyugin, Sergei S. et al., 2005j:92024** *and* **2005j:92025**
Rehim, Mahbuba Persistence criteria for an nonautonomous chemostat type systems. (English and Chinese summaries) **2005d:92019**
Reinsch, H. *see* **Walther, Thomas**[2] **et al.**
Ripoll, Jordi (*with* Saldaña, Joan; Senar, Juan Carlos) Evolutionarily stable transition rates in a stage-structured model. An application to the analysis of size distributions of badges of social status. (English summary) **2005c:92029**
Roberds, James H. *see* **Selgrade, James F., 2005k:92060**
Roberts, Alan (*with* Stone, Lewi) Advantageous indirect interactions in systems of competition. (English summary)

Roeger, Lih-Ing W. Hopf bifurcations in discrete May-Leonard competition models. (English summary) **2005m:92044**

Rozenfeld, Alejandro F. (*with* Albano, Ezequiel V.) A self-organized system of smart preys and predators. (English summary) **2005i:92024**

de la Rubia, F. J. *see* **Escudero, Carlos[2] et al., 2005f:92020**

Sadykov, A. M. *see* **Nedorezov, L. V., 2005h:92029**

Sáenz, Roberto *see* **Yakubu, Abdul-Aziz et al.**

Sæther, Bernt-Erik *see* **Engen, Steinar et al., 2005m:92034**

Saito, Yasuhisa (*with* Takeuchi, Yasuhiro) A time-delay model for prey-predator growth with stage structure. (English summary) **2005k:92059**

— *see also* **Kon, Ryusuke et al., 2005a:92045**

Sakai, Satoki (*with* Harada, Yasushi) Production of offspring using current income and reserves: size-number trade-off and optimal offspring size. (English summary)

Saldaña, Joan *see* **Ripoll, Jordi et al., 2005c:92029**

Samanta, G. P. (*with* Maiti, Alakes) Dynamical model of a single-species system in a polluted environment. (English summary) **2005d:92020**

Sander, Leonard M. *see* **Doering, Charles R. et al., 2005j:92021**

Sargsyan, Khachik V. *see* **Doering, Charles R. et al., 2005j:92021**

Sarkar, Nani Gopal Stochastic model of a population growth with periodically varying parameters. (English summary)

Sato, Kazunori *see* **Nguyễn Hữu Du' et al., 2005d:92018**

Scarelli, Antonino *see* **Postolică, Vasile et al.**

Scheuring, István *see* **Domokos, Gábor**

Schley, David (*with* Doncaster, C. Patrick; Sluckin, Tim) Population models of sperm-dependent parthenogenesis. (English summary)

Self, Steven G. *see* **Wick, David, 2005b:92050**

Selgrade, James F. (*with* Roberds, James H.) Equilibrium and nonequilibrium attractors for a discrete, selection-migration model. (English summary) **2005k:92060**

Senar, Juan Carlos *see* **Ripoll, Jordi et al., 2005c:92029**

Sergeev, Alexander G. *see* **Novoselov, A. V. et al.**

Seshaiyer, Padmanabhan *see* **Jang, Ruey-Jen et al., 2005m:92037**

Shakhnovich, Eugene I. *see* **Brumer, Yisroel, 2005e:92033**

Sherratt, Jonathan A. *see* **Painter, Kevin J.**

Shi, Jin Lin *see* **Chen, Feng De et al., 2005m:92031**

Shuai, Zhisheng *see* **Bai, Ling et al., 2005a:92040**

Sigurdsson, Sven Th. *see* **Magnússon, Kjartan G. et al., 2005b:92045**

Singh, Brahampal *see* **Gakkhar, Sunita, 2005h:92023**

Skakauskas, Vladas A density-dependent population dynamics model with offspring production at fixed ages and child care. (English summary) (*see* **2005d:92001**)

— Large time behavior in a density-dependent population dynamics problem with age structure and child care. (English summary) **2005c:92030**

— A model of population dynamics that takes account of age, pregnancy, and child care. (Russian. English, Russian and Lithuanian summaries)

— On the stability of separable solutions of a sexual age-structured population dynamics model. (English summary) **2005c:92031**

Sluckin, Tim *see* **Schley, David et al.**

Smith, Hal L. *see* **Imran, Mudassar et al., 2005i:92019** *and* **De Leenheer, Patrick et al., 2005k:92050**

Smith, Jonathan D. H. A macroscopic approach to demography. (English summary) **2005a:92049**

Smith, Robert J. (*with* Wolkowicz, Gail S. K.) Analysis of a model of the nutrient driven self-cycling fermentation process. (English summary) **2005a:92050**

Solberg, T. *see* **Mjølhus, E. et al., 2005m:92043**

Solow, Andrew R. Inferring extinction from a sighting record. (English summary)

Song, Wei Tang *see* **Zhang, Shu Mei et al.**

Song, Xin Yu (*with* Cui, Jing An) Uniform persistence and global attractivity for nonautonomous competitive systems with nonlinear dispersion and delays. (English summary) **2005a:92051**

— *see also* **Zheng, Li Li**

Song, Yong Li (*with* Han, Mao An; Peng, Yahong[1]) Stability and Hopf bifurcations in a competitive Lotka-Volterra system with two delays. (English summary) **2005g:92036**

— (*with* Wei, Jun Jie) Local Hopf bifurcation and global periodic solutions in a delayed predator-prey system. (English summary) **2005i:92025**

Sowunmi, C. O. A. Time discrete 2-sex population model with gestation period. (English summary) **2005c:92032**

Stein, Julie *see* **Yakubu, Abdul-Aziz et al.**

Steinsaltz, David (*with* Evans, Steven N.; Wachter, Kenneth W.) A generalized model of mutation-selection balance with applications to aging. (English summary) **2005m:92045**

Stieha, Christopher R. *see* **Crowley, Philip H. et al.**

Stone, Lewi *see* **Roberts, Alan**

Struk, O. O. (*with* Tkachenko, V. I.) On competitive extinction in Lotka-Volterra systems with impulses. (Ukrainian. English and Ukrainian summaries) **2005e:92036**

Sun, Shu Lin (*with* Yuan, Cun De) Analysis of a three-species mixture model with diffusion and ratio-dependence. (Chinese. English and Chinese summaries) **2005k:92061**

Swihart, Robert *see* **Feng, Zhi Lan et al., 2005k:92053**

Takeuchi, Yasuhiro *see* **Kon, Ryusuke et al., 2005a:92045**; **Nguyễn Hữu Du' et al., 2005d:92018**; **Cui, Jing An et al., 2005f:92019**; **2005m:92033** *and* **Saito, Yasuhisa, 2005k:92059**

Tan, De Jun Existence of positive periodic solution to a Lotka-Volterra cooperative system with birth pulse. (Chinese. English and Chinese summaries)

— Study of a predator-prey system with non-monotonic functional response and impulsive perturbations. (Chinese. English and Chinese summaries) **2005k:92062**

Tang, Sanyi (*with* Chen, Lan Sun) The effect of seasonal harvesting on stage-structured population models. (English summary) **2005a:92052**

Tarlie, Martin B. *see* **Baxter, Gareth et al., 2005k:92046**

Tebaldi, Claudio[1] *see* **Lacitignola, Deborah, (2005d:92001)**

Tkachenko, V. I. *see* **Struk, O. O., 2005e:92036**

Totaro, Silvia *see* **Donati, Silvia et al., (2005c:00016)**

Tsallis, Constantino *see* **Tsekouras, G. A. et al., 2005f:92023**

Tsekouras, G. A. (*with* Provata, A.; Tsallis, Constantino) Nonextensivity of the cyclic lattice Lotka-Volterra model. (English summary) **2005f:92023**

Tsoularis, A. (*with* Wallace, James) Reinforcement learning for a stochastic automaton modelling predation in stationary model-mimic environments. (English summary) **2005m:92046**

Tsyganov, M. A. (*with* Biktashev, Vadim N.) Half-soliton interaction of population taxis waves in predator-prey systems with pursuit and evasion. (English summary) **2005j:92026**

Tu, Xuyan *see* **Chen, Jie[1] et al.**

Tufto, Jarle (*with* Hindar, Kjetil) Effective size in management and conservation of subdivided populations. (English summary) **2005a:92053**

Turchin, Peter ★ Complex population dynamics: a theoretical/empirical synthesis. **2005f:92024**

Vaguina, M. Yu. *see* **Kipnis, M. M., 2005g:92033**

Venzi, Lorenzo *see* **Postolică, Vasile et al.**

Wachter, Kenneth W. *see* **Steinsaltz, David et al., 2005m:92045**

Wakano, Joe Yuichiro (*with* Komoto, Atsushi; Yamaguchi, Yukio[1]) Phase transition of traveling waves in bacterial colony pattern. (English summary)

— *see also* **Komoto, Atsushi et al.**

Wallace, James *see* **Tsoularis, A., 2005m:92046**

Walther, Thomas[2] (*with* Reinsch, H.; Große, André; Ostermann, K.; Deutsch, Andreas; Bley, Th.) Mathematical modeling of regulatory mechanisms in yeast colony development. (English summary)

Wang, Bao-quan *see* **Wang, Ji-Hua et al.**

Wang, Gang *see* **Zhou, Shu-Rong, 2005a:92054**

Wang, Gui Hua *see* **Jiang, Li Qiang et al.**

Wang, Hui[1] *see* **Zhang, Shu Mei et al.**

Wang, Ji-Hua (*with* Wang, Bao-quan; Zhang, Lian-shun; Dou, Xiang-Hua; Zhao, Li-Ling) Theoretical study on the Z curves. (English and Chinese summaries)

Wang, Jing[13] (*with* Wang, Ke[1]) Optimal harvesting policy for single population with stage structure. (English summary) **2005f:92025**

Wang, Kai Fa *see* **Qiu, Zhi Peng[1] et al.**

Wang, Ke[1] *see* **Bai, Ling et al., 2005a:92040**; **Wang, Jing[13], 2005f:92025** *and* **Wei, Feng Ying[2]**

Wang, Lin[3] *see* **Xia, Huaxing et al., 2005m:92048**

Wang, Long[1] *see* **Chu, Tianguang et al.**

Wang, Mian Sen *see* **He, Ze Rong et al., 2005b:92042**; **Luo, Zhi Xue, 2005b:92044** *and* **Zhao, Chun[1] et al.**

Wang, Rui *see* **Li, Dianmo et al.**

Wang, Wen-di A stage-structured population model. (English summary) (*see* **2005d:92001**)

— Analysis of a discrete predator-prey model. (English summary) (*see* **2005c:39001**)

Wang, Xubo *see* **Ackleh, Azmy S. et al., 2005i:92015**

Wang, Yuanshi (*with* Wu, Hong[2]) Dynamics of competitive Lotka-Volterra systems that can be projected to a line. (English summary) **2005g:92037**

Wang, Zhi Cheng[1] *see* **Wen, Xian Zhang**

Waxman, David Dynamics of a quantitative character subject only to stabilising selection. (English summary) **2005m:92047**

Webb, Glenn F. Structured population dynamics. (English summary) **2005c:92033**

Wei, Feng Ying[2] (*with* Wang, Ke[1]) Economic harvesting model with variable price and cost for populations with Smith growth and Cui-Lawson growth. (Chinese. English and Chinese summaries)

Wei, Fu Yi[2] *see* **Guo, Zheng Guang et al.**

Wei, Jun Jie *see* **Song, Yong Li, 2005i:92025**

Wei, Zhao Ying (*with* Chen, Si Yang) Stability of a stage-structured two-species competitive system with refuges. (Chinese. English and Chinese summaries)

Weimerskirch, Henri *see* **Engen, Steinar et al., 2005m:92034**

Wen, Xian Zhang (*with* Wang, Zhi Cheng[1]) Global attractivity of positive periodic solution to a multispecies ecological delay system. (Chinese. English and Chinese summaries)

White, Gary C. *see* **Barker, Richard J. et al.**

Wick, David (*with* Self, Steven G.) On simulating strongly interacting, stochastic population models. II. Multiple compartments. (English summary) **2005b:92050**

Wikan, Arild Dynamical consequences of harvest in discrete age-structured population models. (English summary) **2005f:92026**

— *see also* **Mjølhus, E. et al., 2005m:92043**

Williams, John Robert *see* **Manfredi, Piero**

Wolkowicz, Gail S. K. *see* **Smith, Robert J., 2005a:92050** *and* **Xia, Huaxing et al., 2005m:92048**

Wu, Hong[2] *see* **Wang, Yuanshi, 2005g:92037**

Xia, Huaxing (*with* Wolkowicz, Gail S. K.; Wang, Lin[3]) Transient oscillations induced by delayed growth response in the chemostat. (English summary) **2005m:92048**

Xie, Baoyu *see* **Li, Dianmo et al.** *and* **Ma, Zufei et al.**

Xiu, Zhilong *see* **Zhang, Yu Juan et al.**

Xu, Cailin (*with* Boyce, Mark S.; Gadgil, Madhav; Nanjundiah, Vidyanand) Forecasting spatially structured populations: the role of dispersal and scale. (English summary)

Xu, Jiuping *see* **Jin, Yongdong et al.**

Xu, Qiwang *see* **Jin, Yongdong et al.**

Xu, Rui[2] (*with* Chen, Lan Sun; Chaplain, Mark A. J.) Persistence and global stability in a delayed predator-prey system with Holling-type functional response. (English summary) **2005b:92051**

— *see also* **Liu, Qi Ming[2], 2005k:92057** *and* **2005m:92041**

Yakubu, Abdul-Aziz (*with* Sáenz, Roberto; Stein, Julie; Jones, Laura E.) Monarch butterfly spatially discrete advection model. (English summary)

— *see also* **Kulenović, Mustafa R. S., 2005f:92021**

Yamaguchi, Yukio[1] *see* **Komoto, Atsushi et al.** *and* **Wakano, Joe Yuichiro et al.**

Yamamoto, Kenji *see* **Komoto, Atsushi et al.**

Yan, Xiang Ping (*with* Zhang, Cun Hua) Qualitative analysis of a class of two species predator-prey models with functional response. (Chinese. English and Chinese summaries)

Yang, Jian Fa *see* **Liu, Qi Ming[2]**

Yang, Zaizhong *see* **Duan, Lixia et al., 2005h:92022**
Ye, Dan (*with* Fan, Meng[1]; Zhang, Wei Peng[1]) Existence of positive periodic solution of a predator-prey system. (Chinese. English and Chinese summaries)
Yi, Yingfei *see* **Feng, Zhi Lan et al., 2005k:92053**
Yokomizo, Hiroyuki (*with* Haccou, Patsy; Iwasa, Yoh) Multiple-year optimization of conservation effort and monitoring effort for a fluctuating population. (English summary)
Yu, Jun[1] *see* **Qiu, Zhi Peng[1] et al., 2005b:92048**
Yu, Sheng Li *see* **Li, Bi Wen et al.**
Yu, Sheng Ping (*with* Chen, Si Yang; Huang, Jian Ke) Global behavior of a predator-prey competition system with feedback controls. (Chinese. English and Chinese summaries)
Yu, Xin Differentiability of the age-dependent population system with time delay in the birth process. (English summary) **2005i:92026**
Yuan, Cun De *see* **Sun, Shu Lin, 2005k:92061**
Zeng, Xian Wu *see* **Li, Bi Wen et al.**
Zhang, Cun Hua *see* **Yan, Xiang Ping**
Zhang, Guo Quan *see* **Guo, Zheng Guang et al.**
Zhang, Lian-shun *see* **Wang, Ji-Hua et al.**
Zhang, Shao Lin Effects of exotic species on endangered species through predation. (English summary) **2005d:92021**
— (*with* Zhu, Wan Zhen) Effects of diffusion on endangered species with stage structure. (Chinese. English and Chinese summaries)
Zhang, Shu Mei (*with* Song, Wei Tang; Wang, Hui[1]) Control problems for species population in polluted environment. (Chinese. English and Chinese summaries)
Zhang, Shuwen (*with* Chen, Lan Sun) A Holling II functional response food chain model with impulsive perturbations. (English summary)
Zhang, Wei Peng[1] *see* **Ye, Dan et al.**
Zhang, Wenhua *see* **Jin, Yongdong et al.**
Zhang, Yu Juan (*with* Xiu, Zhilong; Chen, Lan Sun) Chaos in a food chain chemostat with pulsed input and washout. (English summary)
— *see also* **Liu, Bing[3] et al., 2005m:92040**
Zhang, Zhen *see* **Li, Dianmo et al.**
Zhao, Chun[1] (*with* Wang, Mian Sen; Zhao, Ping[3]) Optimal harvesting problems for age-dependent interacting species with diffusion. (English summary)
Zhao, Li-Ling *see* **Wang, Ji-Hua et al.**
Zhao, Ping[3] *see* **Zhao, Chun[1] et al.**
Zheng, Li Li (*with* Song, Xin Yu) The asymptotic properties of a predator-prey model with time delay and dispersion. (Chinese. English and Chinese summaries)
Zheng, Si Ning *see* **Liu, Jing[3]**
Zhou, Hai Yun *see* **Liu, Qi Ming[2], 2005d:92017**
Zhou, Shu-Rong (*with* Wang, Gang) Allee-like effects in metapopulation dynamics. (English summary) **2005a:92054**
Zhu, Huaiping *see* **Feng, Zhi Lan et al., 2005k:92053**
Zhu, Wan Zhen *see* **Zhang, Shao Lin**
Zou, Yun *see* **Qiu, Zhi Peng[1] et al., 2005b:92048**
Zwick, Martin *see* **Fletcher, Jeffrey A.**

Items listed otherwise than by author

Errata:
"Evolution of cannibalism: referring to costs of cannibalism" Erratum to: "Evolution of cannibalism: referring to costs of cannibalism" [J. Theoret. Biol. **226** (2004), no. 3, 293–302; MR2068820] by K. Nishimura and Y. Isoda.

Items with secondary classifications in 92D25

Abdurahman, Xamxinur (*with* Teng, Zhidong) On the persistence of a nonautonomous n-species Lotka-Volterra cooperative system. (English summary) **2005a:34068**
— (*with* Rehim, Mahbuba) An extinction criterion for non-autonomous n-species Lotka-Volterra competitive system with time delay. (English and Chinese summaries) **2005g:34185**
Ackleh, Azmy S. (*with* Deng, Keng) Survival of the fittest in a quasilinear size-structured population model. (English summary) **2005j:35116**
— (*with* Deng, Keng; Hu, Shuhua) A quasilinear hierarchical size-structured model: well-posedness and approximation. (English summary) **2005i:35170**
Acosta-Humanez, Primitivo B. An application of functional analysis in a predator-prey system. (English summary) **2005j:26002**
Agarwal, Ravi P. *see* **Fan, Meng[1] et al., 2005f:34190** *and* **Jiang, Da Qing et al., 2005m:34161**
Agarwal, Sheba *see* **Saker, Samir H., 2005m:34152**
Aggoun, Lakhdar On a stochastic capture-recapture predator-prey model. (English summary) **2005h:60229**
Ahangar, Reza Computer simulation and modeling of multistage carcinogenesis mutations. (English summary) (*see* **2005i:00016**)
Ahmad, Shair (*with* Stamova, Ivanka M.) Partial persistence and extinction in N-dimensional competitive systems. (English summary) **2005k:34133**
Ahn, Inkyung *see* **Ko, Wonlyul, 2005a:35074** *and* **2005e:35101**
Ai, Shangbing Multiple positive periodic solutions for a delay host macroparasite model. (English summary) **2005b:34134**
Aida, Masashi (*with* Yagi, Atsushi) Target pattern solutions for chemotaxis-growth system. (English summary) **2005a:35151**
Ainseba, Bedr'Eddine Age-dependent population dynamics diffusive systems. (English summary) **2005k:35208**
— (*with* Aniţa, Sebastian[2]) Internal exact controllability of the linear population dynamics with diffusion. (English summary) **2005h:93005**
Al-Eideh, Basel M. Estimation of the parameters of a survival process with downward jumps in life table. (English summary)
Alexander, M. E. *see* **Moghadas, S. M., 2005g:34100**
Al-Khaled, Kamel Numerical approximations for population growth models. (English summary) **2005i:65113**
Allen, Linda J. S. *see* **Roeger, Lih-Ing W., 2005i:39015**
Al-Omari, J. F. M. (*with* Gourley, Stephen A.) Dynamics of a stage-structured population model incorporating a state-dependent maturation delay. (English summary) **2005h:34217**
Aly, Shaban (*with* Farkas, M.) Bifurcations in a predator-prey model in patchy environment with diffusion. (English summary) **2005b:34086**
Anantharam, Venkat *see* **Wagner, Aaron B., 2005i:60199**
Anderson, Paul E. (*with* Jensen, Henrik Jeldtoft) Network properties, species abundance and evolution in a model of evolutionary ecology. (English summary) **2005i:92032**
Angeli, David *see* **De Leenheer, Patrick et al., 2005m:34087**
Angulo, Oscar (*with* López-Marcos, Juan Carlos) Numerical integration of fully nonlinear size-structured population models. (English summary) **2005h:65152**
Aniţa, Sebastian[2] *see* **Ainseba, Bedr'Eddine, 2005h:93005**
Apreutesei, Narcisa C. Asymptotic approximations and optimal control for Lotka-Volterra systems. (English summary)
Arino, Ovide (*with* Sánchez, Eva) Delays induced in population dynamics. (English summary) **2005b:34125**
— (*with* El abdllaoui, A.; Mikram, J.; Chattopadhyay, Joydev) Infection in prey population may act as a biological control in ratio-dependent predator-prey models. (English summary) **2005f:34132**
— (*with* Sánchez, Eva) A saddle point theorem for functional state-dependent delay differential equations. (English summary) **2005k:34284**
Asghar, Saleem *see* **Hayat, Tasawar et al., 2005b:76148**
Azevedo, Katia A. G. (*with* Ladeira, Luiz A. C.) Hopf bifurcation for a class of partial differential equation with delay. (English summary) **2005k:35414**
Bahar, Arifah (*with* Mao, Xuerong) Stochastic delay Lotka-Volterra model. (English summary) **2005b:60142**
Bahuguna, Dhirendra (*with* Muslim, Malik) Approximation of solutions to retarded differential equations with applications to population dynamics. **2005m:35303**
Bai, Ling (*with* Fan, Meng[1]; Wang, Ke[1]) Periodic solutions for a discrete time ratio-dependent two predator-one prey system. (English summary) **2005a:39022**
Baker, Christopher T. H. *see* **Song, Yihong, 2005j:65173**
Bakstein, David *see* **Capasso, Vincenzo, 2005g:60001**
Bandyopadhyay, Malay *see* **Kundu, Kusumika et al.**
Banks, H. T. (*with* Potter, Laura K.) Probabilistic methods for addressing uncertainty and variability in biological models: application to a toxicokinetic model. (English summary) **2005i:92001**
Barrett, John W.[1] (*with* Blowey, James F.) Finite element approximation of a nonlinear cross-diffusion population model. (English summary) **2005f:65125**
Basener, William (*with* Ross, David S.) Booming and crashing populations and Easter Island. (English summary) **2005m:34108**
Belmiloudi, Aziz Optimal control problems of nonlinear degenerate parabolic differential systems with logistic time-varying delays. (English summary) **2005k:49010**
Benaïm, Michel (*with* Schreiber, Sebastian J.; Tarrès, Pierre) Generalized urn models of evolutionary processes. (English summary) **2005f:92017**
Berestycki, Henri (*with* Hamel, François; Roques, Lionel) Équations de réaction-diffusion et modèles d'invasions biologiques dans les milieux périodiques. (English and French summaries) [Reaction-diffusion equations and biological invasion models in periodic media] **2005h:35186**
Berezansky, Leonid (*with* Braverman, Elena) On oscillation of a food-limited population model with time delay [MR1954246 (2004j:34145)]. (*see* **2005d:00015**)
— (*with* Braverman, Elena; Idels, Lev) Delay differential logistic equations with harvesting. (English summary) **2005e:34207**
— (*with* Braverman, Elena; Idels, Lev) Delay differential equations with Hill's type growth rate and linear harvesting. (English summary) **2005i:34080**
— *see also* **Errata: "Delay differential logistic equations with harvesting", 2005k:34258**
Bertotti, Maria Letizia (*with* Delitala, Marcello) From discrete kinetic and stochastic game theory to modelling complex systems in applied sciences. (English summary) **2005e:60231**
Bhattacharyya, Rakhi *see* **Mukhopadhyay, Banibrata, 2005j:34076**
Biazar, J. (*with* Montazeri, R.) A computational method for solution of the prey and predator problem. (English summary)
Bibik, Yu. V. (*with* Popov, S. P.; Sarancha, D. A.) Numerical solution of the Bogoyavlenskiĭ kinetic equation and the Lotka-Volterra system with diffusion. (Russian. Russian summary) **2005m:65163**
Biktashev, Vadim N. (*with* Brindley, J.; Holden, A. V.; Tsyganov, M. A.) Pursuit-evasion predator-prey waves in two spatial dimensions. (English summary)
— *see also* **Tsyganov, M. A. et al., 2005e:35134**
Birbil, Ş. İlker (*with* Fang, Shu-Cherng; Sheu, Ruey-Lin) On the convergence of a population-based global optimization algorithm. (English summary) **2005h:90173**
Blayneh, Kbenesh W. Analysis of age-structured host-parasitoid model. (English summary) **2005h:35222**
— (*with* Roeger, Lih-Ing W.) Asymptotic dynamics of age-structured host-parasitoid models. (English summary) **2005c:35283**
— Hierarchical discrete models of competition for a resource. (English summary) **2005b:37207**
Blowey, James F. *see* **Barrett, John W.[1], 2005f:65125**
Bobrowski, A. Quasi-stationary distributions of a pair of Markov chains related to time evolution of a DNA locus. (English summary) **2005b:60198**
Bockelman, Brian (*with* Deng, Bo; Green, Elizabeth Jennie; Hines, Gwendolen; Lippitt, Leslie; Sherman, Jason) Chaotic coexistence in a top-predator mediated competitive exclusive web. (English summary) **2005k:34179**
Bouloux Marquet, Catherine Continuous host-macroparasite models with application to aquaculture. (English summary) **2005h:35188**
Bowers, Roger G. *see* **White, Andrew R., 2005j:92019**
Braverman, Elena *see* **Berezansky, Leonid et al., 2005e:34207**; **2005i:34080**; **2005k:34258**; **(2005d:00015)** *and* **Errata: "Delay differential logistic equations with harvesting", 2005k:34258**
Brindley, J. *see* **Tsyganov, M. A. et al., 2005e:35134** *and* **Biktashev, Vadim N. et al.**
Brown, Sam P. *see* **Poitrineau, Karine et al.**
Buonomo, Bruno (*with* Lacitignola, Deborah) General conditions for global stability in a single species population-toxicant model. (English summary) **2005i:34065**
Bürger, Raimund (*with* Karlsen, Kenneth H.; Towers, John D.) Closed-form and finite

difference solutions to a population balance model of grinding mills. (English summary) **2005m:80011**

Bürger, Reinhard A multilocus analysis of intraspecific competition and stabilizing selection on a quantitative trait. (English summary) **2005m:92063**

Butov, A. A. *see* **Golubev, Aleksei et al.**

Cai, Liming[2] *see* **Song, Xin Yu et al., 2005e:34238**

Cairns, Ben (*with* Pollett, P. K.) Extinction times for a general birth, death and catastrophe process. (English summary) **2005m:60165**

Campbell, R. B. A logistic branching process for population genetics. (English summary)

Cantrell, Robert Stephen (*with* Cosner, Chris; Ruan, Shigui) Intraspecific interference and consumer-resource dynamics. (English summary) **2005b:34102**

Canziani, Graciela Ana *see* **Simoy, María Verónica**

Cao, Jin De *see* **Xia, Yong Hui et al., 2005d:34114** *and* **Yang, Zhihui, 2005h:34191**

Capasso, Vincenzo (*with* Bakstein, David) ★ An introduction to continuous-time stochastic processes. **2005g:60001**

Cărăuşu, Alexandru Notions of complex analysis in modelling the evolution of biological populations. (English summary)

Carneiro, Jorge *see* **León, Kalet et al.**

Carreño, Ramón *see* **Martínez, Ignacio et al.**

Carroll, Joseph E. (*with* Lauck, Timothy; Lamberson, Roland H.) A Perron theorem for positive componentwise bilinear maps. (English summary) **2005k:15044**

Casal, Alfonso C. (*with* Somolinos, Alfredo S.) Parametric excitation in a predator-prey model. (English summary) **2005k:34160**

Castro, Luis J. *see* **Rogers, Andrei et al.**

Chandra, Prem[2] (*with* Singh, Housila Prasad) Modified estimators for population variance that utilizes the kurtosis of an auxiliary variable in sample surveys. (English summary)

Chang, Der-Chen (*with* Nhieu, Duy-Minh) A difference equation arising from logistic population growth. (English summary) **2005b:39013**

Chang, Yu (*with* Li, Xu-dong) Dynamical behaviors in a two-dimensional map. (English summary) **2005b:37104**

Chaplain, Mark A. J. *see* **Xu, Rui[2] et al., 2005b:34144**; **2005d:34153**; **2005e:34218**; **2005f:34219**; **2005f:39046**; **2005f:39047**; **2005g:34115**; **2005g:34176**; **2005h:34190**; **2005j:34096**; **2005j:34102**; **2005k:34204**; **2005k:34274** *and* **Schofield, Peter G. et al., 2005m:92005**

Chattopadhyay, Joydev *see* **Arino, Ovide et al., 2005f:34132** *and* **Kundu, Kusumika et al.**

Chaudhuri, K. S. *see* **Purohit, D., 2005f:91107**

Chen, An Ping[2] (*with* Huang, Li Hong[1]) Global attractivity in a model of bobwhite quail with delay. (English summary) **2005d:39059**

Chen, Chao (*with* Chen, Feng De) Conditions for global attractivity of multispecies ecological competition-predator system with Holling III type functional response. (English and Chinese summaries) **2005f:34186**

Chen, Fang-Yue *see* **Wang, Yi, 2005j:37036**

Chen, Feng De (*with* Shi, Jin Lin; Chen, Xiao Xing) Persistence and global stability for two-species nonautonomous predator-prey system with diffusion and time delay. (English summary) **2005e:34211**

— Persistence and periodic orbits for two-species non-autonomous diffusion Lotka-Volterra models. (English summary) **2005h:34111**

— (*with* Shi, Jin Lin; Chen, Xiao Xing) Periodicity in a Lotka-Volterra facultative mutualism system with several delays. (English and Chinese summaries) **2005g:34168**

— *see also* **Sun, De Xian, 2005a:34099**; **Xia, Yong Hui et al., 2005d:34114**; **Chen, Chao, 2005f:34186**; **Huang, Zhen Kun, 2005m:34106** *and* **Zhang, Hui Ying**

Chen, Guo-li (*with* Xu, Rui[2]; Liu, Qi Ming[2]) Periodic solutions of a competitive model with distributed time delays. (English and Chinese summaries) **2005k:34261**

Chen, Lan Sun *see* **Dou, Jiawei et al., 2005b:34021**; **Xu, Rui[2] et al., 2005b:34143**; **Zhang, Yu Juan et al., 2005c:34016**; **2005g:34021**; **Xiao, Yan Ni, 2005c:34104**; **Liu, Bing[3] et al., 2005d:34018**; **2005d:34019**; **2005k:34026**; **Hui, Jing, 2005d:34085**; **2005k:34203**; **Zhang, Shuwen et al., 2005d:34113**; **2005h:34108**; **Zeng, Guang Zhao et al., 2005m:34103** *and* **Gao, Shujing et al., 2005m:92053**

Chen, Li[7] (*with* Jüngel, Ansgar) Analysis of a multidimensional parabolic population model with strong cross-diffusion. (English summary) **2005f:35144**

Chen, Liu Juan (*with* Sun, Jian Hua[1]) Qualitative analysis of a predator-prey system with functional response kx^{θ}. (Chinese. English and Chinese summaries) **2005k:34114**

Chen, Ning[1] Extinction of solution for a Ginzburg-Landau model equation in population problems. (Chinese. English and Chinese summaries)

Chen, Ren Zhao *see* **Fu, Jun**

Chen, Shi Hua[3] (*with* Wang, Tianxiao; Zhang, Junhua) Positive periodic solution for non-autonomous competition Lotka-Volterra patch system with time delay. (English summary) **2005c:34140**

Chen, Si Yang *see* **Hei, Li Jun, 2005a:34104** *and* **Huang, Li Hang**

Chen, Tian Ping *see* **Lin, Wei[4], 2005i:34085**

Chen, Wen Cheng *see* **Zhao, Jian-dong**

Chen, Wen Yan (*with* Wang, Ming Xin[2]) Positive steady states of a competitor-competitor-mutualist model. (English summary) **2005a:35072**

— (*with* Wang, Ming Xin[2]) Non-constant positive steady-states of a predator-prey-mutualist model. (English summary) **2005b:35059**

— (*with* Peng, Rui) Stationary patterns created by cross-diffusion for the competitor-competitor-mutualist model. (English summary) **2005a:35156**

Chen, Xiao Xing Global stability of periodic solutions for a discrete time nonautonomous ratio-dependent predator-prey system. (Chinese. English and Chinese summaries)

— *see also* **Chen, Feng De et al., 2005e:34211** *and* **2005g:34168**

Chen, Xiao Ying (*with* Zhu, Wan Zhen) Qualitative analysis of an autonomous SIS model of predator-prey system with the Holling type II functional response. (Chinese. English and Chinese summaries)

Chen, Yu Ming[1] Periodic solutions of delayed predator-prey systems with mutual interference. (English summary) **2005b:34135**

— New results on positive periodic solutions of a periodic integro-differential competition system. (English summary) **2005c:34141**

— (*with* Fang, Hui[1]) Periodic solutions of a delayed periodic hematopoiesis model. (English summary)

Chen, Yunlan (*with* Wang, Ming Xin[2]) Asymptotic behavior of solutions of a three-species predator-prey model with diffusion and time delays. (English summary)

Cheng, Jian (*with* Li, Bi Wen) Periodic solution for N species Lotka-Volterra competitive systems with time delay. (Chinese. English and Chinese summaries) **2005g:34169**

— *see also* **Li, Bi Wen, 2005b:34139**

Cheng, Sui Sun *see* **Tang, Xian Hua, 2005c:39015**

Choi, Won The application of stochastic analysis to countable allelic diffusion model. (English summary) **2005b:60164**

Choirat, Christine *see* **Seri, Raffaello, (2005d:92001)**

Chou, Tom *see* **D'Orsogna, Maria R., 2005h:82016**

Chow, Shue-Sum *see* **Shih, Shagi-Di, 2005j:34065**

Coles, C. Parameter identification using mollification for predator-prey models in spatially heterogeneous environments. (English summary) **2005h:65154**

Cosner, Chris *see* **Cantrell, Robert Stephen et al., 2005b:34102**

Crooks, E. C. M. (*with* Dancer, Edward Norman; Hilhorst, D.; Mimura, Masayasu; Ninomiya, Hirokazu) Spatial segregation limit of a competition-diffusion system with Dirichlet boundary conditions. (English summary) **2005h:35147**

Cui, Jing An Permanence and periodic solution of a Lotka-Volterra system with time delay. (Chinese. English and Chinese summaries) **2005e:34230**

— (*with* Song, Xin Yu) Permanence of predator-prey system with stage structure. (English summary) **2005e:34125**

— (*with* Sun, Yonghong) Permanence of predator-prey system with infinite delay. (English summary) **2005g:34170**

— (*with* Song, Xin Yu) Sufficient and necessary condition for the permanence of periodic predator-prey system. (English summary) **2005f:34095**

Cushing, J. M. The LPA model. **2005d:39061**

— *see also* **Jang, Ruey-Jen, 2005j:39003**

Cusulin, Caterina (*with* Iannelli, Mimmo; Marinoschi, Gabriela) Age-structured diffusion in a multi-layer environment. (English summary)

Dancer, Edward Norman *see* **Crooks, E. C. M. et al., 2005h:35147**

Dăng Vũ Giang (*with* Dinh Cong Huong) Nontrivial periodicity in discrete delay models of population growth. (English summary) **2005k:39007**

— (*with* Lenbury, Yongwimon; Seidman, Thomas I.) Delay effect in models of population growth. (English summary) **2005k:34256**

Davidson, Fordyce A. *see* **Xu, Rui[2] et al., 2005b:34144**; **2005d:34153**; **2005e:34218**; **2005f:34219**; **2005f:39046**; **2005f:39047**; **2005g:34115**; **2005g:34176**; **2005h:34190**; **2005j:34096**; **2005j:34102**; **2005k:34204** *and* **2005k:34274**

Debnath, Lokenath *see* **Zhao, Chang Jian et al., 2005b:34146**

De Iorio, Maria (*with* Griffiths, Robert C.) Importance sampling on coalescent histories. I. (English summary) **2005b:60106**

— (*with* Griffiths, Robert C.) Importance sampling on coalescent histories. II. Subdivided population models. (English summary) **2005b:60107**

De Leenheer, Patrick (*with* Angeli, David; Sontag, Eduardo D.) On predator-prey systems and small-gain theorems. (English summary) **2005m:34087**

Delgado Delgado, Manuel (*with* Molina-Becerra, Mónica; Suárez Fernández, Antonio) The sub-supersolution method for an evolutionary reaction-diffusion age-dependent problem. (English summary) **2005g:35170**

— (*with* Molina-Becerra, Mónica; Suárez Fernández, Antonio) Relating disease and predation: equilibria of an epidemic model. (English summary) **2005i:92028**

Delgado Pineda, Miguel (*with* Montero, Juan Aurelio; Suárez Fernández, Antonio) Study of the optimal harvesting control and the optimality system for an elliptic problem. (English summary) **2005b:91180**

Delitala, Marcello *see* **Bertotti, Maria Letizia, 2005e:60231**

Delmas, Bernard Pierre-François Verhulst et la loi logistique de la population. (English and French summaries) [Pierre-François Verhulst and the logistic law of population]

Del Moral, Pierre ★ Feynman-Kac formulae. **2005f:60003**

Deng, Bo Food chain chaos with canard explosion. (English summary) **2005g:37170**

— *see also* **Bockelman, Brian et al., 2005k:34179**

Deng, Keng *see* **Ackleh, Azmy S. et al., 2005i:35170** *and* **2005j:35116**

Dhar, Joydip (*with* Singh, Harbax) Diffusion of population under the influence industrialization in a twin-city environment. (English and Lithuanian summaries) **2005f:91111**

Di Battista, Tonio *see* **Gattone, Stefano Antonio, (2005f:62007)**

Diekmann, Odo A beginner's guide to adaptive dynamics. (English summary) **2005c:92020**

Dilão, Rui (*with* Lakmeche, A.) Diffusion in the McKendrick-von Foerster equation. (English summary) (*see* **2005i:00016**)

— (*with* Domingos, Tiago; Shahverdiev, Elman M.) Harvesting in a resource dependent age structured Leslie type population model. (English summary) **2005a:92061**

Dinh Cong Huong *see* **Dăng Vũ Giang, 2005k:39007**

Domingos, Tiago *see* **Dilão, Rui et al., 2005a:92061**

Dong, Linzhen *see* **Zhang, Shuwen et al., 2005d:34113**

Dong, Shi Jie (*with* Ge, Wei Gao) Periodic solution of predator-prey diffusive system of two species with time delay and ratio-dependence. (Chinese. English and Chinese summaries) **2005b:34090**

— *see also* **Liu, Qi Ming[2], 2005m:34164**

Dorman, Karin S. (*with* Sinsheimer, Janet S.; Lange, Kenneth) In the garden of branching processes. (English summary)

D'Orsogna, Maria R. (*with* Chou, Tom) Interparticle gap distributions on one-dimensional lattices. (English summary) **2005h:82016**

Dou, Jiawei (*with* Chen, Lan Sun; Li, Kai Tai) A monotone-iterative method for finding periodic solutions of an impulsive competition system on tumor-normal cell interaction. (English summary) **2005b:34021**

van den Driessche, P. (*with* Zeeman, Mary Lou) Disease induced oscillations between two competing species. (English summary) **2005j:92027**

— *see also* **Satnoianu, Razvan Alin, 2005i:15018**

Du, Xiaohong *see* **Jing, Hai Ying, 2005g:34079**

Du, Yihong Asymptotic behavior and uniqueness results for boundary blow-up solutions. (English summary) **2005f:35096**

— (*with* Hsu, Sze-Bi) A diffusive predator-prey model in heterogeneous environment. (English summary) **2005e:35051**

Economou, Antonis The compound Poisson immigration process subject to binomial catastrophes. (English summary) **2005b:60188**

Èdiev, D. M. The concept of demographic potential and its applications. (Russian. English and Russian summaries) **2005c:91108**
Egami, Chikahiro (*with* Hirano, Norimichi) Periodic solutions in a class of periodic delay predator-prey systems. (English summary) **2005g:34171**
Elabbasy, Elmetwally M. (*with* Saker, Samir H.) Dynamics of a class of non-autonomous systems of two non-interacting preys with common predator. (English summary) **2005j:34077**
El abdllaoui, A. *see* **Arino, Ovide et al., 2005f:34132**
Elaydi, Saber N. (*with* Sacker, Robert J.) Global stability of periodic orbits of non-autonomous difference equations and population biology. (English summary) **2005h:39022**
El-Gohary, Awad I. Optimal control of stochastic lattice of prey-predator models. (English summary) **2005f:93177**
El-Morshedy, Hassan A. (*with* Liz, Eduardo) Convergence to equilibria in discrete population models. (English summary) **2005i:39004**
Elser, James J. *see* **Kuang, Yang et al., 2005b:92020**
El-Sheikh, M. M. A. (*with* Mahrouf, S. A. A.) Stability and bifurcation of a simple food chain in a chemostat with removal rates. (English summary) **2005j:34073**
Emamirad, Hassan On the theory of remediability. (English summary) **2005b:47085**
Eriksson, Anders B. (*with* Lindgren, Kristian; Lundh, Torbjörn) War of attrition with implicit time cost. (English summary)
Ezhov, Alexandr A. (*with* Khrennikov, Andrei Yu.) Agents with left and right dominant hemispheres and quantum statistics. (English summary)
Fan, Aijun *see* **Wang, Kai Fa, 2005d:34152**
Fan, Meng[1] (*with* Wang, Qian[4]) Periodic solutions of a class of nonautonomous discrete time semi-ratio-dependent predator-prey systems. (English summary) **2005e:39030**
— (*with* Ye, Dan; Wong, Patricia J. Y.; Agarwal, Ravi P.) Periodicity in a class of non-autonomous scalar equations with deviating arguments and applications to population models. (English summary) **2005f:34190**
— (*with* Kuang, Yang) Dynamics of a nonautonomous predator-prey system with the Beddington-DeAngelis functional response. (English summary) **2005m:34113**
— (*with* Zou, Xingfu) Global asymptotic stability of a class of nonautonomous integro-differential systems and applications. (English summary) **2005b:34137**
— *see also* **Bai, Ling et al., 2005a:39022** *and* **Ye, Dan et al., 2005g:34020**
Fan, Yong-Hong (*with* Li, Wan Tong) Permanence for a delayed discrete ratio-dependent predator-prey system with Holling type functional response. (English summary) **2005f:39031**
Fang, Hui[1] *see* **Chen, Yu Ming[1]**
Fang, Shu-Cherng *see* **Birbil, Ş. İlker et al., 2005h:90173**
Farkas, J. Z. Stability conditions for the non-linear McKendrick equations. (English summary)
— Bifurcations of equilibria of a non-linear age structured model. (English summary)
Farkas, M. *see* **Aly, Shaban, 2005b:34086**
Faro, Jose *see* **León, Kalet et al.**
Fasano, Antonio (*with* Mancini, Antonella; Primicerio, Mario) Equilibrium of two populations subject to chemotaxis. (English summary) **2005a:34057**
Ferdinand, Robert R. Convergence-uniqueness in a nonlinear two-dimensional population diffusion model. (English summary) **2005k:35218**
— Parameter estimation in a nonlinear two-dimensional population diffusion model. (English summary) **2005a:35158**
Fister, K. Renee (*with* Lenhart, Suzanne) Optimal control of a competitive system with age-structure. (English summary) **2005d:49042**
Fournier, Nicolas (*with* Méléard, Sylvie) A microscopic probabilistic description of a locally regulated population and macroscopic approximations. (English summary) **2005m:60231**
Fournier-Prunaret, Danièle *see* **López-Ruiz, Ricardo, 2005h:37213** *and* **2005k:37203**
Fragnelli, Genni (*with* Tonetto, Lorenza) A population equation with diffusion. (English summary) **2005j:34085**
Fu, Guifang (*with* Ma, Wanbiao; Ruan, Shigui) Qualitative analysis of a chemostat model with inhibitory exponential substrate uptake. (English summary) **2005f:34133**
Fu, Jun (*with* Chen, Ren Zhao) Optimal harvesting control for a semilinear age-dependent population diffusion system. (Chinese. English and Chinese summaries)
Fu, Sheng Mao (*with* Gao, Hai Yan) Global solution to a prey-predator triangular cross-diffusion model. (Chinese. English and Chinese summaries)
Fujita Yashima, Hisao Équation stochastique de dynamique de populations du type proie-prédateur avec diffusion dans un territoire. (English and French summaries) [Stochastic equation of population dynamics of prey-predator type with diffusion in a territory] **2005e:60126**
Gakkhar, Sunita (*with* Kamel Naji, Ra'id) Order and chaos in a food web consisting of a predator and two independent preys. (English summary) **2005f:34125**
Galanis, George N. (*with* Palamides, Panagiotis) Global positive solutions of a generalized logistic equation with bounded and unbounded coefficients. (English summary) **2005e:34047**
Galiano, Gonzalo (*with* Jüngel, Ansgar) Global existence of solutions for a strongly coupled population system. (English summary) **2005d:35129**
Gámez, Manuel *see* **Martínez, Ignacio et al.**
Gao, Hai Yan *see* **Fu, Sheng Mao**
Gao, Shujing (*with* Chen, Lan Sun; Sun, Li Hua) Dynamic complexities in a seasonal prevention epidemic model with birth pulses. (English summary) **2005m:92053**
Gattone, Stefano Antonio (*with* Di Battista, Tonio) The multivariate adaptive sampling for estimating the diversity in biological populations. (English summary) (*see* **2005f:62007**)
Ge, Wei Gao *see* **Dong, Shi Jie, 2005b:34090**; **Lu, Shi Ping, 2005b:34142**; **Liu, Yu Ji[2] et al., 2005d:39036**; **Yang, Ping-Hua** *and* **Gui, Zhan Ji**
Gerardi, Anna (*with* Torti, Barbara) Symmetric models for lifetimes: the role of exchangeable equivalence relations. (English and Italian summaries) **2005a:62217**
Ghouali, Noureddine (*with* Touaoula, Tarik Mohamed) A linear model for the dynamics of fish larvae. (English summary) **2005h:35038**
Golubev, Aleksei (*with* Khrustalev, S.; Butov, A. A.) An in silico investigation into the causes of telomere length heterogeneity and its implications for the Hayflick limit. (English summary)
Gourley, Stephen A. (*with* Ruan, Shigui) Convergence and travelling fronts in functional differential equations with nonlocal terms: a competition model. (English summary) **2005i:35142**
— *see also* **Al-Omari, J. F. M., 2005h:34217**
Gouzé, Jean-Luc (*with* Robledo, Gonzalo) Feedback control for nonmonotone competition models in the chemostat. (English summary) **2005m:93063**
Green, Elizabeth Jennie *see* **Bockelman, Brian et al., 2005k:34179**
Griffiths, Robert C. *see* **De Iorio, Maria, 2005b:60106** *and* **2005b:60107**
Gu, Guangze (*with* Xiao, Qing Feng; Zhao, Yuan) Periodic solution of a mixed system. (English summary) **2005m:34160**
Gui, Zhan Ji (*with* Ge, Wei Gao) Globally asymptotically stability of periodic solution of multispecies nonautonomous models with time delay. (English summary)
Guo, Zongming Coexistence states for systems of mutualist species. (English summary) **2005k:35097**
Gupta, Arjun K. *see* **Nagar, Daya K.**
Gyllenberg, Mats (*with* Jacobs, F. J. A.; Metz, J. A. J.) On the concept of attractor for community-dynamical processes. II. The case of structued populations. (English summary) **2005k:37202b**
— (*with* Wang, Yi) Dynamics of the periodic type-K competitive Kolmogorov systems. (English summary) **2005f:34129**
— (*with* Wang, Yi) Periodic tridiagonal systems modeling competitive-cooperative ecological interactions. (English summary) **2005k:34163**
Haiden, Nina *see* **Hauert, Christoph et al.**
Hakoyama, Hiroshi (*with* Iwasa, Yoh) Extinction risk of a meta-population: aggregation approach. (English summary)
Hamel, François *see* **Berestycki, Henri et al., 2005h:35186**
Han, Mao An *see* **Jin, Zhen et al., 2005d:34088**; **Yuan, San Ling et al., 2005d:34157**; **Liu, Xuan Liang, 2005e:34148**; **Song, Yong Li et al., 2005j:37076** *and* **2005m:35162**
Han, Qui Hong *see* **Jia, Xin Gang, 2005m:92023**
Han, Xin-li (*with* Li, Zhi Ming) Average persistence and extinction criteria in nonautonomous predator-prey Kolmogorov systems. (English and Chinese summaries) **2005c:34089**
Hangos, Katalin M. *see* **Szederkényi, Gábor, 2005a:34073**
Hao, Fei-long *see* **Xu, Rui[2] et al., 2005b:34143**; **2005f:34220** *and* **Yang, Ping-Hua et al.**
Hauert, Christoph (*with* Haiden, Nina; Sigmund, Karl) The dynamics of public goods. (English summary)
Hayat, Tasawar (*with* Wang, Yongqi; Siddiqui, Abdul Majeed; Asghar, Saleem) A mathematical model for the study of gliding motion of bacteria on a layer of non-Newtonian slime. (English summary) **2005b:76148**
He, Ze Rong Optimal birth control of age-dependent competitive species. (English summary) **2005c:49056**
— Optimal birth control of age-dependent competitive species. II. Free horizon problems. (English summary) **2005k:49060**
— *see also* **Luo, Zhi Xue et al., 2005c:35037**
Hei, Li Jun (*with* Chen, Si Yang) Global stability for a three-patch diffusion predator-prey model with time delays. (Chinese. English and Chinese summaries) **2005a:34104**
Hein, Jotun (*with* Schierup, Mikkel H.; Wiuf, Carsten) ★ Gene genealogies, variation and evolution. **2005m:92021**
Henson, Michael A. Modeling the synchronization of yeast respiratory oscillations. (English summary)
Hetzer, Georg (*with* Shen, Wenxian) Two species competition with an inhibitor involved. (English summary) **2005k:34194**
Hilhorst, D. *see* **Crooks, E. C. M. et al., 2005h:35147**
Hines, Gwendolen *see* **Bockelman, Brian et al., 2005k:34179**
Hirano, Norimichi *see* **Egami, Chikahiro, 2005g:34171**
Hochberg, Michael E. *see* **Poitrineau, Karine et al.**
Hofbauer, Franz (*with* Hofbauer, Josef; Raith, Peter; Steinberger, Thomas) Intermingled basins in a two species system. (English summary) **2005m:37212**
Hofbauer, Josef (*with* Schreiber, Sebastian J.) To persist or not to persist? (English summary) **2005d:37039**
— *see also* **Hofbauer, Franz et al., 2005m:37212**
Hogeweg, P. Multilevel particle systems and the study of biological evolution. (English summary)
Holden, A. V. *see* **Tsyganov, M. A. et al., 2005e:35134** *and* **Biktashev, Vadim N. et al.**
Hsu, Sze-Bi *see* **Du, Yihong, 2005e:35051**
Hu, Shuhua *see* **Ackleh, Azmy S. et al., 2005i:35170**
Hu, Xiao Hua (*with* Yu, Min) Periodic solution bifurcation of three-dimensional Volterra equations with periodic time-dependence. (Chinese. English and Chinese summaries)
Huang, Huaxiong *see* **Weng, Peixuan et al., 2005k:35412**
Huang, Ji-cai (*with* Xiao, Dong-mei) Analyses of bifurcations and stability in a predator-prey system with Holling type-IV functional response. (English summary) **2005d:34102**
Huang, Li Hang (*with* Chen, Si Yang) Hopf bifurcation of a class of predator-prey models with delay. (Chinese. English and Chinese summaries)
Huang, Li Hong[1] *see* **Chen, An Ping[2], 2005d:39059**
Huang, Qi-chang *see* **Li, Xiao-yue et al., 2005f:34205**
Huang, Xun C. (*with* Zhu, Lemin) Limit cycles in a general Kolmogorov model. (English summary) **2005j:34047**
Huang, Zhen Kun (*with* Chen, Feng De) Almost periodic solution of a two-species competitive system with feedback controls. (Chinese. English and Chinese summaries) **2005m:34106**
Hubbard, Stephen F. *see* **Schofield, Peter G. et al., 2005m:92005**
Hui, Jing (*with* Chen, Lan Sun) Existence of positive periodic solution of periodic time-dependent predator-prey system with impulsive effects. (English summary) **2005d:34085**
— (*with* Chen, Lan Sun) Dynamic complexities in ratio-dependent predator-prey ecosystem models with birth pulse and pesticide pulse. (English summary)
— (*with* Chen, Lan Sun) A single species model with impulsive diffusion. (English summary) **2005k:34203**
Huisman, Jef *see* **Pham Thi, N. N. et al.**
Huo, Hai Feng (*with* Li, Wan Tong; Liu, Xin Zhi) Existence and global attractivity of positive periodic solution of an impulsive delay differential equation. (English summary)

2005h:34200
— (*with* Li, Wan Tong) Periodic solutions of delayed Leslie-Gower predator-prey models. (English summary) **2005c:34142**
— (*with* Li, Wan Tong) Periodic solutions of a periodic Lotka-Volterra system with delays. (English summary) **2005e:34213**
— (*with* Li, Wan Tong) Periodic solution of a delayed predator-prey system without dominating instantaneous negative feedback. (English summary) **2005f:34118**
— (*with* Li, Wan Tong) Permanence and global stability for nonautonomous discrete model of plankton allelopathy. (English summary) **2005g:39019**
— Existence of positive periodic solutions of a neutral delay Lotka-Volterra system with impulses. (English summary) **2005i:34082**
— (*with* Li, Wan Tong) Stable periodic solution of the discrete periodic Leslie-Gower predator-prey model. (English summary) **2005d:39026**
— (*with* Li, Wan Tong) Periodic solutions of a ratio-dependent food chain model with delays. (English summary) **2005c:34143**
— (*with* Li, Wan Tong) Global attractivity and oscillation in a periodic "food-limited" population model with delay. (Chinese. English and Chinese summaries) **2005m:34149**
— (*with* Li, Wan Tong) Existence and global stability of periodic solutions of a discrete ratio-dependent food chain model with delay. (English summary) **2005k:39008**
— Periodic solutions for a semi-ratio-dependent predator-prey system with functional responses. (English summary) **2005j:34062**
— Permanence and global attractivity of delay diffusive prey-predator systems with the Michaelis-Menten functional response. (English summary) **2005k:34290**
— *see also* **Li, Wan Tong, 2005i:34083** *and* **2005j:39007**
Iannelli, Mimmo *see* **Cusulin, Caterina et al.**
Idels, Lev *see* **Berezansky, Leonid et al., 2005e:34207; 2005i:34080; 2005k:34258** *and* **Errata: "Delay differential logistic equations with harvesting", 2005k:34258**
Ishiwata, Emiko *see* **Uesugi, Kazuya et al., 2005a:34107**
Iwasa, Yoh *see* **Hakoyama, Hiroshi**
Jacobs, F. J. A. (*with* Metz, J. A. J.) On the concept of attractor for community-dynamical processes. I. The case of unstructured populations. (English summary) **2005k:37202a**
— *see also* **Gyllenberg, Mats et al., 2005k:37202b**
Jagers, Peter (*with* Sagitov, Serik) Convergence to the coalescent in populations of substantially varying size. (English summary) **2005d:60134**
Jang, Ruey-Jen (*with* Cushing, J. M.) Dynamics of hierarchical models in discrete-time. (English summary) **2005j:39003**
Jędruch, Wojciech *see* **Waniewski, Jacek et al.**
Jensen, Henrik Jeldtoft *see* **Anderson, Paul E., 2005i:92032**
Jeribi, Aref (*with* Megdiche, Hatem; Moalla, Nedra) On a transport operator arising in growing cell populations. II. Cauchy problem. (English summary)
Ji, Xinhua (*with* Spröß ig, Wolfgang) Global stability for the n-species Lotka-Volterra tree systems of interacting population-diffusion equations. (English summary) **2005f:35151**
Jia, Xin Gang (*with* Han, Qui Hong) Joint genotypic probabilities in a structured population. (Chinese. English and Chinese summaries) **2005m:92023**
Jiang, Da Qing (*with* Shi, Ning-Zhong) A note on nonautonomous logistic equation with random perturbation. (English summary) **2005m:60124**
— (*with* O'Regan, Donal; Agarwal, Ravi P.; Xu, Xiaojie) On the number of positive periodic solutions of functional differential equations and population models. (English summary) **2005m:34161**
Jiang, Haijun *see* **Teng, Zhidong et al., 2005f:34101**
Jiang, Jifa (*with* Liang, Xing; Zhao, Xiao-Qiang) Saddle-point behavior for monotone semiflows and reaction-diffusion models. (English summary) **2005c:37041**
— *see also* **Zhao, Jian-dong, 2005b:34108** *and* **2005f:34102**
Jin, Zhen (*with* Ma, Zhi En; Han, Mao An) The existence of periodic solutions of the n-species Lotka-Volterra competition systems with impulsive. (English summary) **2005d:34088**
Jing, Hai Ying (*with* Yang, Zhaoyu) The impact of state feedback control on a predator-prey model with functional response. (English summary) **2005h:93085**
— (*with* Du, Xiaohong) Asymptotic behavior of n-species Lotka-Volterra systems. (English summary) **2005g:34079**
Joharji, N. *see* **Zaghrout, A. A. S. et al., 2005f:34224**
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Jüngel, Ansgar *see* **Galiano, Gonzalo, 2005d:35129** *and* **Chen, Li[7], 2005f:35144**
Kamel Naji, Ra'id *see* **Gakkhar, Sunita, 2005f:34125**
Kandil, F. *see* **Zaghrout, A. A. S. et al., 2005f:34224**
Kang, Joon Hyuk (*with* Oh, Yun Myung) The existence and uniqueness of a positive solution of an elliptic system. (English summary) **2005d:35051**
Kar, Tapan Kumar[2] Management of a fishery based on continuous fishing effort. (English summary) **2005b:92064**
Karcz-Duleba, Iwona Time to the convergence of evolution in the space of population states. (English summary)
Karlsen, Kenneth H. *see* **Bürger, Raimund et al., 2005m:80011**
Kato, Nobuyuki A general model of size-dependent population dynamics with nonlinear growth rate. (English summary) **2005m:35042**
Kharchenko, N. V. *see* **Koshmanenko, Volodymyr, 2005g:37010**
Khrennikov, Andrei Yu. *see* **Ezhov, Alexandr A.**
Khrustalev, S. *see* **Golubev, Aleksei et al.**
Kim, Kwang Ik (*with* Lin, Zhi Gui) Blowup estimates for a parabolic system in a three-species cooperating model. (English summary) **2005b:35119**
Kim, Mi-Young[2] (*with* Yin, Y. X.) A discontinuous Galerkin method for a model of population dynamics. (English summary) **2005e:65146**
King, John Robert (*with* McCabe, Philip M.) On the Fisher-KPP equation with fast nonlinear diffusion. (English summary) **2005f:35165**
Kirkland, Steve (*with* Neumann, Michael; Xu, Jianhong) Convexity and elasticity of the growth rate in size-classified population models. (English summary) **2005i:15016**
Ko, Wonlyul (*with* Ahn, Inkyung) Uniqueness of positive steady states for weak competition models with self-cross diffusions. (English summary) **2005a:35074**
— (*with* Ahn, Inkyung) Steady states for nonlinear food chain model with degenerate self-population diffusions. (English summary) **2005e:35101**
Kokki, Esa ★ Spatial small area analyses of disease risk around sources of environmental pollution: modelling tools for a system using high resolution register data. (English summary) **2005a:62009**
Komarova, N. L. Replicator-mutator equation, universality property and population dynamics of learning. (English summary)
Kon, Ryusuke A note on attenuant cycles of population models with periodic carrying capacity. (English summary) **2005f:39035**
— Permanence of discrete-time Kolmogorov systems for two species and saturated fixed points. (English summary) **2005b:37210**
Koshmanenko, Volodymyr Theorem of conflicts for a pair of probability measures. (English summary) **2005a:37170**
— (*with* Kharchenko, N. V.) Invariant points of a dynamical system of conflict in the space of piecewise uniformly distributed measures. (Ukrainian. English and Ukrainian summaries) **2005g:37010**
Kouche, Mehiéddine (*with* Tatar, Nasser-Eddine) Extinction and asymptotic behavior of solutions to a system arising in biology. (English summary) **2005e:45016**
— *see also* **Liu, Shengqiang et al., 2005h:34202**
Kovács, Sándor Bifurcations in a human migration model of Scheurle-Seydel type. II. Rotating waves. (English summary)
— Turing bifurcation in a system with cross diffusion. (English summary) **2005h:35197**
Kuang, Yang (*with* Nagy, John D.; Elser, James J.) Biological stoichiometry of tumor dynamics: mathematical models and analysis. (English summary) **2005b:92020**
— *see also* **Fan, Meng[1], 2005m:34113**
Kundu, Kusumika (*with* Bandyopadhyay, Malay; Chattopadhyay, Joydev) Logistic growth functions may overcome extinction in a ratio-dependent predator-prey model: deterministic and stochastic approach. (English summary)
Kunimatsu, Noboru Robust stability of population dynamical systems. (English summary)
Lachowicz, Mirosław On bilinear kinetic equations. Between micro and macro descriptions of biological populations. (English summary) **2005e:35232**
— General population systems. Macroscopic limit of a class of stochastic semigroups. (English summary) **2005m:35157**
Lacitignola, Deborah *see* **Buonomo, Bruno, 2005i:34065**
Ladeira, Luiz A. C. *see* **Azevedo, Katia A. G., 2005k:35414**
Lakmeche, A. *see* **Dilão, Rui, (2005i:00016)**
Lamberson, Roland H. *see* **Carroll, Joseph E. et al., 2005k:15044**
Lange, Kenneth *see* **Dorman, Karin S. et al.**
Lauck, Timothy *see* **Carroll, Joseph E. et al., 2005k:15044**
Lea, Megan *see* **Rogers, Andrei et al.**
Lenbury, Yongwimon *see* **Dăng Vũ Giang et al., 2005k:34256**
Lenhart, Suzanne *see* **Fister, K. Renee, 2005d:49042** *and* **Joshi, Hem Raj, 2005h:49092**
León, Kalet (*with* Faro, Jose; Carneiro, Jorge) A general mathematical framework to model generation structure in a population of asynchronously dividing cells. (English summary)
Leszczyński, Henryk (*with* Zwierkowski, Piotr) Existence of solutions to generalized von Foerster equations with functional dependence. (English summary) **2005h:35348**
— (*with* Zwierkowski, Piotr) Stability of finite difference schemes for certain problems in biology. (English summary) **2005g:65126**
Lewis, Mark A. *see* **Lutscher, Frithjof et al., 2005m:92003**
Li, Bi Wen Periodic solutions for generalized predator-prey systems with time delay and diffusion. (English summary) **2005b:34138**
— (*with* Tan, De Jun) Coexistence and extinction in autonomous competitive Lotka-Volterra systems. (English and Chinese summaries) **2005e:34147**
— (*with* Cheng, Jian) Periodic solution for a neutral Lotka-Volterra model with time delay. (English and Chinese summaries) **2005b:34139**
— *see also* **Cheng, Jian, 2005g:34169**
Li, Chuan Zhen Asymptotic behavior of solutions of a competition-diffusion system with depositings. (Chinese. English and Chinese summaries)
Li, Chuandong (*with* Liao, Xiaofeng; Wong, Kwok-Wo) Bifurcation of the exponentially self-regulating population model. (English summary) **2005h:37212**
Li, Fengjie *see* **Luo, Guilie et al., 2005a:34072**
Li, Jing[1] *see* **Lu, Zhi Qi**
Li, Kai Tai *see* **Dou, Jiawei et al., 2005b:34021**
Li, Michael Y. *see* **Mei, Ming et al., 2005e:35130** *and* **Wei, Jun Jie, 2005k:34279**
Li, Shu Yong[1] *see* **Yang, Zhi Guo et al., 2005e:35136**
Li, Wan Tong (*with* Huo, Hai Feng) Global attractivity of positive periodic solutions for an impulsive delay periodic model of respiratory dynamics. (English summary) **2005i:34083**
— (*with* Huo, Hai Feng) Positive periodic solutions of delay difference equations and applications in population dynamics. (English summary) **2005j:39007**
— *see also* **Wang, Lin Lin, 2005a:34100; 2005g:39026; 2005k:34306; Luo, Zhi Xue et al., 2005b:91182; 2005c:35037; Huo, Hai Feng et al., 2005c:34142; 2005c:34143; 2005d:39026; 2005e:34213; 2005f:34118; 2005g:39019; 2005h:34200; 2005k:39008; 2005m:34149** *and* **Fan, Yong-Hong, 2005f:39031**
Li, Xiao-yue (*with* Qian, Mei-hua; Yang, Jianping[1]; Huang, Qi-chang) Hopf bifurcations of a chemostat system with bi-parameters. (English summary) **2005f:34205**
Li, Xiu Qin[1] (*with* Song, Guo Hua) Persistence of a food chain model for microbes. (Chinese. English and Chinese summaries) **2005g:34116**
Li, Xiu Ying[2] (*with* Wang, Wen-di) Qualitative analysis of predator-prey system with Holling type I functional response. (English and Chinese summaries)
Li, Xu-dong *see* **Chang, Yu, 2005b:37104**
Li, Yan Ling[2] *see* **Wang, Zhi Guo**
Li, Yi[2] (*with* Zhao, Chunshan) Global existence of solutions to a cross-diffusion system in higher dimensional domains. (English summary) **2005i:35147**
Li, Yong Kun *see* **Yin, Fu-qi, 2005e:34219**
Li, Zhan (*with* Shuai, Zhisheng; Wang, Ke[1]) Persistence and extinction of single population in a polluted environment. (English summary) **2005g:34081**
Li, Zhi Ming Exploitable nonautonomous single-species systems. (Chinese. English and Chinese summaries)
— *see also* **Han, Xin-li, 2005c:34089** *and* **Teng, Zhidong et al., 2005f:34101**
Liang, Dong (*with* So, Joseph W.-H.; Zhang, Fan[4]; Zou, Xingfu) Population dynamic

models with nonlocal delay on bounded domains and their numerical computations. (English summary) **2005b:34167**

— (*with* Wu, Jian Hong; Zhang, Fan[4]) Modelling population growth with delayed nonlocal reaction in 2-dimensions. (English summary) **2005k:35411**

Liang, Xing *see* **Jiang, Jifa et al., 2005c:37041**

Liao, Liu Sheng *see* **Wang, Xiao Ping, 2005d:34170**

Liao, Xiaofeng *see* **Li, Chuandong et al., 2005h:37212**

Lin, Wan Tao *see* **Mo, Jia Qi et al.**

Lin, Wei[4] (*with* Chen, Tian Ping) Positive periodic solutions of delayed periodic Lotka-Volterra systems. (English summary) **2005i:34085**

Lin, Xiaoyan[1] Bounded oscillation for a class of second order neutral delay difference equations. (English summary) **2005d:39067**

Lin, Zhi Gui A time delayed parabolic system in a three-species predator-prey model. (Chinese. English and Chinese summaries) **2005c:35285**

— (*with* Pedersen, Michael) Coexistence of a general elliptic system in population dynamics. (English summary)

— (*with* Pedersen, Michael) Stability in a diffusive food-chain model with Michaelis-Menten functional response. (English summary) **2005g:35138**

— *see also* **Kim, Kwang Ik, 2005b:35119** *and* **Liu, Yong[5]**

Lindgren, Kristian *see* **Eriksson, Anders B. et al.**

Ling, Jiaoxiu *see* **Weng, Peixuan et al., 2005k:35412**

Lippitt, Leslie *see* **Bockelman, Brian et al., 2005k:34179**

Lisena, Benedetta Global attractive periodic models of predator-prey type. (English summary) **2005h:34142**

Liu, Bing[3] (*with* Zhi, Ying; Chen, Lan Sun) The dynamics of a predator-prey model with Ivlev's functional response concerning integrated pest management. (English summary) **2005d:34018**

— (*with* Zhang, Yu Juan; Chen, Lan Sun) Dynamic complexities of a Holling I predator-prey model concerning periodic biological and chemical control. (English summary) **2005d:34019**

— (*with* Zhang, Yu Juan; Chen, Lan Sun) The dynamical behaviors of a Lotka-Volterra predator-prey model concerning integrated pest management. (English summary) **2005k:34026**

— *see also* **Zhang, Yu Juan et al., 2005c:34016** *and* **2005g:34021**

Liu, Bingchen *see* **Luo, Guilie et al., 2005a:34072**

Liu, Chang Chun Instability of traveling waves for a generalized diffusion model in population problems. (English summary)

Liu, Qi Ming[2] (*with* Xu, Rui[2]) Persistence and global stability for a delayed nonautonomous single-species model with dispersion and feedback control. (English summary) **2005b:34160**

— (*with* Xu, Rui[2]) Periodic solutions of Schoener's competitive model with time delays. (English and Chinese summaries) **2005f:34194**

— (*with* Dong, Shi Jie) Periodic solutions for a delayed predator-prey system with dispersal and impulses. (English summary) **2005m:34164**

— *see also* **Chen, Guo-li et al., 2005k:34261**

Liu, Shengqiang (*with* Kouche, Mehiéddine; Tatar, Nasser-Eddine) Permanence extinction and global asymptotic stability in a stage structured system with distributed delays. (English summary) **2005h:34202**

Liu, Xin Zhi *see* **Huo, Hai Feng et al., 2005h:34200**

Liu, Xuan Liang (*with* Han, Mao An) Qualitative analysis of predator-prey systems with type-III functional response. (Chinese. English and Chinese summaries) **2005e:34148**

Liu, Ying[4] *see* **Zeng, Guang Zhao et al., 2005m:34103**

Liu, Yong[5] (*with* Lin, Zhi Gui) Coexistence states for a predator-prey model with diffusion. (Chinese. English and Chinese summaries)

Liu, Yu Ji[2] (*with* Zhou, Zhan; Ge, Wei Gao) Positive solutions of a non-autonomous delay model of single population. (English summary) **2005d:39036**

— (*with* Ge, Wei Gao) Asymptotic behavior of solutions of forced delay differential equations with impulses. (English summary)

Liu, Zhi Hua[2] (*with* Yuan, Rong[1]) The effect of diffusion for a predator-prey system with nonmonotonic functional response. (English summary) **2005j:35122**

— (*with* Yuan, Rong[1]) Stability and bifurcation in a delayed predator-prey system with Beddington-DeAngelis functional response. (English summary) **2005d:34161**

— (*with* Yuan, Rong[1]) Bifurcations in predator-prey systems with nonmonotonic functional response. (English summary) **2005i:34088**

Liu, Zhi Jun[2] Global existence of positive periodic solution for a neutral delay competitive system. (English summary) **2005f:34233**

— (*with* Wang, Wei Dong[1]) Persistence and periodic solutions of a nonautonomous predator-prey diffusion system with Holling III functional response and continuous delay. (English summary) **2005h:34183**

— Positive periodic solution for a neutral delay competitive system. (English summary) **2005a:34114**

Liz, Eduardo (*with* Pinto, Manuel; Tkachenko, V. I.; Trofimchuk, Sergei) A global stability criterion for a family of delayed population models. (English summary) **2005m:34181**

— *see also* **El-Morshedy, Hassan A., 2005i:39004**

López-Marcos, Juan Carlos *see* **Angulo, Oscar, 2005h:65152**

López-Ruiz, Ricardo (*with* Fournier-Prunaret, Danièle) Complex behavior in a discrete coupled logistic model for the symbiotic interaction of two species. (English summary) **2005k:37203**

— (*with* Fournier-Prunaret, Danièle) Indirect Allee effect, bistability and chaotic oscillations in a predator-prey discrete model of logistic type. (English summary) **2005h:37213**

Lou, Yuan (*with* Nagylaki, Thomas) Evolution of a semilinear parabolic system for migration and selection in population genetics. (English summary) **2005f:35167**

Lu, Shi Ping (*with* Ge, Wei Gao) Existence of positive periodic solutions to a neutral model of single-species population growth. (Chinese. English and Chinese summaries)

— (*with* Ge, Wei Gao) Existence of positive periodic solutions for neutral logarithmic population model with multiple delays. (English summary) **2005b:34142**

Lu, Zhi Qi Global stability for a chemostat-type model with delayed nutrient recycling. (English summary) **2005d:34162**

— (*with* Li, Jing[1]) Persistence and attractivity in a ratio-dependent predator-prey system with distributed time delays. (English and Chinese summaries)

Lundh, Torbjörn *see* **Eriksson, Anders B. et al.**

Luo, Guilie (*with* Liu, Bingchen; Li, Fengjie) A competitive and prey-predator model with stage-structure. (English summary) **2005a:34072**

— *see also* **Ou, Liu Man, 2005e:34216**

Luo, Zhi Xue (*with* Li, Wan Tong; Wang, Mian Sen) Optimal harvesting control problem for linear periodic age-dependent population dynamics. (English summary) **2005b:91182**

— (*with* He, Ze Rong; Li, Wan Tong) Optimal birth control for predator-prey system of three species with age-structure. (English summary) **2005c:35037**

Lutscher, Frithjof (*with* Pachepsky, Elizaveta; Lewis, Mark A.) The effect of dispersal patterns on stream populations. (English summary) **2005m:92003**

Ma, Jun-ying *see* **Wang, Yu-quan**

Ma, Li[2] (*with* Su, Ning) Existence, multiplicity and stability results for positive solutions of nonlinear p-Laplacian equations. (English summary) **2005e:35078**

Ma, Shi Wang (*with* Zou, Xingfu) Propagation and its failure in a lattice delayed differential equation with global interaction. (English summary) **2005k:34314**

Ma, Wanbiao *see* **Fu, Guifang et al., 2005f:34133** *and* **Yamaguchi, Masahiro[1] et al.**

Ma, Zhi En *see* **Jin, Zhen et al., 2005d:34088**

Magal, P. (*with* Thieme, Horst R.) Eventual compactness for semiflows generated by nonlinear age-structured models. (English summary) **2005h:34161**

Magnago, K. F. *see* **Silva, J. A. L., 2005b:35278**

Mahrouf, S. A. A. *see* **El-Sheikh, M. M. A., 2005j:34073**

Maksaev, A. S. Problems of stability for a system of differential equations with two delays. (Russian. Russian summary) **2005d:34163**

Mancini, Antonella *see* **Fasano, Antonio et al., 2005a:34057**

Mao, Xuerong (*with* Yuan, Cheng Gui; Zou, Jie Zhong) Stochastic differential delay equations of population dynamics. (English summary) **2005k:60182**

— *see also* **Bahar, Arifah, 2005b:60142**

Marinoschi, Gabriela *see* **Cusulin, Caterina et al.**

Martínez, Ignacio (*with* Carreño, Ramón; Gámez, Manuel) Global attractors for a Kolmogorov system.

Martsenyuk, Vasil' P. *see* **Nakonechnyĭ, A. G., 2005k:93020**

Matsenko, V. G. A nonlinear model of the dynamics of the age structure of populations. (Ukrainian. English and Ukrainian summaries) **2005e:35228**

Matsumoto, Toshitaka (*with* Oharu, Shinnosuke; Tanaka, Naoki) Time-dependent nonlinear perturbations of analytic and integrated semigroups. (English summary) **2005f:47101**

Mawhin, Jean The legacy of Pierre-François Verhulst and Vito Volterra in population dynamics. (English summary) (*see* **2005j:00015**)

McCabe, Philip M. *see* **King, John Robert, 2005f:35165**

McGough, Jeff S. (*with* Riley, Kyle L.) A priori bounds for reaction-diffusion systems arising in chemical and biological dynamics. (English summary) **2005h:92032**

Megdiche, Hatem *see* **Jeribi, Aref et al.**

Mei, Ming (*with* So, Joseph W.-H.; Li, Michael Y.; Shen, Samuel S. P.) Asymptotic stability of travelling waves for Nicholson's blowflies equation with diffusion. (English summary) **2005e:35130**

Méléard, Sylvie *see* **Fournier, Nicolas, 2005m:60231**

Metz, J. A. J. *see* **Jacobs, F. J. A., 2005k:37202a** *and* **Gyllenberg, Mats et al., 2005k:37202b**

Michel, Philippe (*with* Mischler, Stéphane; Perthame, Benoît) General entropy equations for structured population models and scattering. (English and French summaries) **2005b:35019**

Mickens, Ronald E. Construction of a discrete-time model for periodic diseases with integer-valued populations. (English summary) **2005k:39022**

Mikram, J. *see* **Arino, Ovide et al., 2005f:34132**

Mimura, Masayasu *see* **Crooks, E. C. M. et al., 2005h:35147**

Minchev, Emil A diffusion-convection prey-predator model with hysteresis. (English summary) **2005k:35221**

Mischler, Stéphane *see* **Michel, Philippe et al., 2005b:35019**

Mitrofanov, A. Yu. Note on Zeifman's bounds on the rate of convergence for birth-death processes. (English summary) **2005g:60133**

Mo, Jia Qi (*with* Wang, Li Jie; Lin, Wan Tao) A class of nonlinear predator-prey reaction diffusion systems. (Chinese. English and Chinese summaries)

Moalla, Nedra *see* **Jeribi, Aref et al.**

Moghadas, S. M. (*with* Alexander, M. E.) Dynamics of a generalized Gause-type predator-prey model with a seasonal functional response. (English summary) **2005g:34100**

Molina-Becerra, Mónica *see* **Delgado Delgado, Manuel et al., 2005g:35170** *and* **2005i:92028**

Montazeri, R. *see* **Biazar, J.**

Montero, Juan Aurelio *see* **Delgado Pineda, Miguel et al., 2005b:91180**

Mukhopadhyay, Banibrata (*with* Bhattacharyya, Rakhi) Dynamics of a delay-diffusion prey-predator model with disease in the prey. (English summary) **2005j:34076**

Muroya, Yoshiaki Persistence and global stability in Lotka-Volterra delay differential systems. (English summary) **2005g:34195**

— Persistence and global stability in discrete models of pure-delay nonautonomous Lotka-Volterra type. (English summary) **2005d:39086**

— Erratum to: "Persistence and global stability in discrete models of pure-delay nonautonomous Lotka-Volterra type" [J. Math. Anal. Appl. **293** (2004), no. 2, 446–461; MR2053890 (2005d:39086)]. **2005g:39034**

— Boundedness and partial survival of species in nonautonomous Lotka-Volterra systems. (English summary) **2005h:34203**

— *see also* **Uesugi, Kazuya et al., 2005a:34107**

Murray, John M. (*with* Perelson, Alan S.) Human immunodeficiency virus: quasi-species and drug resistance. (English summary)

Muslim, Malik *see* **Bahuguna, Dhirendra, 2005m:35303**

Nagai, Toshitaka (*with* Syukuinn, Rai; Umesako, Masayuki) Decay properties and asymptotic profiles of bounded solutions to a parabolic system of chemotaxis in $\mathbf{R}^n$. **2005h:35144**

Nagar, Daya K. (*with* Gupta, Arjun K.) Percentage points for testing homogeneity of several univariate Gaussian populations. (English summary)

Nagy, John D. *see* **Kuang, Yang et al., 2005b:92020**

Nagylaki, Thomas *see* **Lou, Yuan, 2005f:35167**
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Naresh, Ram (*with* Omar, Sandip; Tripathi, Agraj) Modelling and analysis of HIV/AIDS in a variable size population. (English summary)
Neumann, Avidan U. *see* **Song, Xin Yu et al., 2005e:34238**
Neumann, Michael *see* **Kirkland, Steve et al., 2005i:15016**
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Ni, Wei-Ming Qualitative properties of solutions to elliptic problems. **2005k:35138**
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Oharu, Shinnosuke *see* **Matsumoto, Toshitaka et al., 2005f:47101**
Omar, Sandip *see* **Naresh, Ram et al.**
O'Regan, Donal *see* **Jiang, Da Qing et al., 2005m:34161**
Oruganti, Shobha (*with* Shi, Junping; Shivaji, Ratnasingham) Logistic equation wtih the p-Laplacian and constant yield harvesting. **2005g:35106**
Ou, Liu Man (*with* Luo, Guilie) Periodic solutions and almost periodic solutions of a nonautonomous predator-prey system with stage-structure and delay. (English summary) **2005e:34216**
Ouedraogo, Albert (*with* Traore, Oumar) Optimal control for a nonlinear population dynamics problem. (English summary) **2005m:49008**
Pachepsky, Elizaveta *see* **Lutscher, Frithjof et al., 2005m:92003**
Padrón, Víctor Effect of aggregation on population revovery modeled by a forward-backward pseudoparabolic equation. (English summary) **2005c:35172**
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Pamuk, Serdal The decomposition method for continuous population models for single and interacting species. (English summary) **2005h:34019**
Pang, Peter Y. H. (*with* Wang, Ming Xin[2]) Strategy and stationary pattern in a three-species predator-prey model. (English summary) **2005e:35053**
Pao, C. V. Strongly coupled elliptic systems and applications to Lotka-Volterra models with cross-diffusion. (English summary) **2005i:35072**
Park, Juhyun[1] Stability for a competitive Lotka-Volterra system with delays: LMI optimization approach. (English summary) **2005k:34300**
Pedersen, Michael *see* **Lin, Zhi Gui, 2005g:35138**
Peng, Ming Shu Multiple bifurcations and periodic "bubbling" in a delay population model. (English summary)
Peng, Rui (*with* Wang, Ming Xin[2]) Positive steady states of the Holling-Tanner prey-predator model with diffusion. (English summary) **2005j:35126**
— *see also* **Chen, Wen Yan, 2005a:35156**
Perelson, Alan S. *see* **Murray, John M.**
Perthame, Benoît *see* **Michel, Philippe et al., 2005b:35019**
Pertsev, N. V. (*with* Pichugina, A. N.; Pichugin, B. Yu.) Behavior of solutions of a dissipative integral Lotka-Volterra model. (Russian. Russian summary) **2005b:45003**
Pham Thi, N. N. (*with* Huisman, Jef; Sommeijer, Ben P.) Simulation of three-dimensional phytoplankton dynamics: competition in light-limited environments. (English summary)
Piazzera, Susanna (*with* Tonetto, Lorenza) Asynchronous exponential growth for an age dependent population equation with delayed birth process. (English summary) **2005j:34086**
Pichugin, B. Yu. *see* **Pertsev, N. V. et al., 2005b:45003**
Pichugina, A. N. *see* **Pertsev, N. V. et al., 2005b:45003**
Pilyugin, Sergei S. (*with* Waltman, Paul) Divergence criterion for generic planar systems. (English summary) **2005c:34076**
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Płatkowski, Tadeusz Evolution of populations playing mixed multiplayer games. (English summary) **2005b:91040**
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Potter, Laura K. *see* **Banks, H. T., 2005i:92001**
Pötzsche, Christian (*with* Siegmund, Stefan) A limit set trichotomy for order-preserving systems on time scales. (English summary) **2005g:37048**
— A limit set trichotomy for abstract 2-parameter semiflows on time scales. (English summary) **2005e:37033**
Primicerio, Mario *see* **Fasano, Antonio et al., 2005a:34057**
Purohit, D. (*with* Chaudhuri, K. S.) A bioeconomic model of nonselective harvesting of two competing fish species. (English summary) **2005f:91107**
Qian, Mei-hua *see* **Li, Xiao-yue et al., 2005f:34205**
Qin, Lin (*with* Yu, Shi Xiao) Chaos analysis of a dynamic model in metapopulation. (Chinese. English and Chinese summaries)
Qiu, Zhi Peng[1] (*with* Wang, Kai Fa) The asymptotic behavior of a single population model with space-limited and stage-structure. (English summary) **2005j:34064**
Raith, Peter *see* **Hofbauer, Franz et al., 2005m:37212**
Raja Sekhara Rao, P. *see* **Sree Hari Rao, V., 2005i:34096** *and* **2005k:34302**
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Riley, Kyle L. *see* **McGough, Jeff S., 2005h:92032**
Robledo, Gonzalo *see* **Gouzé, Jean-Luc, 2005m:93063**
Roeger, Lih-Ing W. (*with* Allen, Linda J. S.) Discrete May-Leonard competition models. I. (English summary) **2005i:39015**
— Discrete May-Leonard competition models. III. (English summary) **2005i:39016**
— *see also* **Blayneh, Kbenesh W., 2005c:35283**
Rogers, Andrei (*with* Castro, Luis J.; Lea, Megan) Model migration schedules: three alternative linear parameter estimation methods. (English summary)
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(Rudnicki, Ryszard) *see* **Mathematical modelling of population dynamics, 2005a:92003**
Ruxton, Graeme D. *see* **Sherratt, Thomas N. et al.**
Rybka, Piotr (*with* Tang, Qi; Waxman, David) Evolution in a changing environment: existence of solutions. (English summary) **2005b:45011**
Sacker, Robert J. *see* **Elaydi, Saber N., 2005h:39022**
Sagitov, Serik *see* **Jagers, Peter, 2005d:60134**
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— *see also* **Elabbasy, Elmetwally M., 2005j:34077**
Sánchez, Eva *see* **Arino, Ovide, 2005b:34125** *and* **2005k:34284**
Sarancha, D. A. *see* **Bibik, Yu. V. et al., 2005m:65163**
Satnoianu, Razvan Alin (*with* van den Driessche, P.) Some remarks on matrix stability with application to Turing instability. (English summary) **2005i:15018**
Schierup, Mikkel H. *see* **Hein, Jotun et al., 2005m:92021**
Schinazi, Rinaldo B. Mass extinctions: an alternative to the Allee effect. (English summary) **2005m:60238**
Schofield, Peter G. (*with* Chaplain, Mark A. J.; Hubbard, Stephen F.) Dynamic heterogeneous spatio-temporal pattern formation in host-parasitoid systems with synchronised generations. (English summary) **2005m:92005**
Schreiber, Sebastian J. On Allee effects in structured populations. (English summary) **2005c:37171**
— *see also* **Hofbauer, Josef, 2005d:37039** *and* **Benaïm, Michel et al., 2005f:92017**
Seidman, Thomas I. *see* **Dăng Vũ Giang et al., 2005k:34256**
Seri, Raffaello (*with* Choirat, Christine) Stochastic boundedness in biological models. (English summary) (*see* **2005d:92001**)
Shahverdiev, Elman M. *see* **Dilão, Rui et al., 2005a:92061**
Shcherbakov, Vadim Stochastic model of trend dynamics and a density dependent population process with discontinuity. (English summary) **2005a:60119**
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Sheng, Qin A view of dynamic derivatives on time scales from approximations. (English summary) **2005h:39017**
Sherman, Jason *see* **Bockelman, Brian et al., 2005k:34179**
Sherratt, Thomas N. (*with* Speed, Michael P.; Ruxton, Graeme D.) Natural selection on unpalatable species imposed by state-dependent foraging behaviour. (English summary)
Sheu, Ruey-Lin *see* **Birbil, Ş. İlker et al., 2005h:90173**
Shi, Jin Lin *see* **Chen, Feng De et al., 2005e:34211** *and* **2005g:34168**
Shi, Junping *see* **Oruganti, Shobha et al., 2005g:35106**
Shi, Ning-Zhong *see* **Jiang, Da Qing, 2005m:60124**
Shih, Shagi-Di (*with* Chow, Shue-Sum) A power series in small energy for the period of the Lotka-Volterra system. (English summary) **2005j:34065**
Shivaji, Ratnasingham *see* **Oruganti, Shobha et al., 2005g:35106**
Shuai, Zhisheng *see* **Li, Zhan et al., 2005g:34081**
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Siegmund, Stefan *see* **Pötzsche, Christian, 2005g:37048**
Sigmund, Karl *see* **Hauert, Christoph et al.**
Silva, J. A. L. (*with* Magnago, K. F.) Stability properties for a class of nonlinear renewal equations: an application to population dynamics. (English summary) **2005b:35278**
Simoy, María Verónica (*with* Canziani, Graciela Ana) A stage-structured model with two time-steps for analyzing the population dynamics of *Rhea americana* under variable environmental conditions. (English summary)
Singh, Harbax *see* **Dhar, Joydip, 2005f:91111**
Singh, Housila Prasad *see* **Chandra, Prem[2]**
Singh, J. R. Reliability estimation under measurement error for normal distribution. (English summary)
Sinsheimer, Janet S. *see* **Dorman, Karin S. et al.**
Smith, Hal L. (*with* Zhao, Xiao-Qiang) Traveling waves in a bio-reactor model. (English summary) **2005g:35161**
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Somolinos, Alfredo S. *see* **Casal, Alfonso C., 2005k:34160**
Song, Guo Hua *see* **Li, Xiu Qin[1], 2005g:34116**
Song, Xin Yu (*with* Cai, Liming[2]; Neumann, Avidan U.) Ratio-dependent predator-prey system with stage structure for prey. (English summary) **2005e:34238**
— *see also* **Cui, Jing An, 2005e:34125** *and* **2005f:34095**
Song, Yihong (*with* Baker, Christopher T. H.) Qualitative behaviour of numerical approximations to Volterra integro-differential equations. (English summary) **2005j:65173**
Song, Yong Li (*with* Han, Mao An; Wei, Jun Jie) Stability and global Hopf bifurcation for a predator-prey model with two delays. (Chinese. English and Chinese summaries) **2005j:37076**
— (*with* Han, Mao An) Traveling wavefronts of a diffusive population model with Allee effect and delay. (Chinese. English and Chinese summaries) **2005m:35162**
— *see also* **Yuan, San Ling et al., 2005d:34157**
Sontag, Eduardo D. *see* **De Leenheer, Patrick et al., 2005m:34087**
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Sprößig, Wolfgang *see* **Ji, Xinhua, 2005f:35151**
Sree Hari Rao, V. (*with* Raja Sekhara Rao, P.) Oscillations induced by the time lags in limited nutrient-consumer dynamic models. (English summary) **2005k:34302**
— (*with* Raja Sekhara Rao, P.) Stability analysis of ratio-dependent prey-predator models. (English summary) **2005i:34096**
Stamova, Ivanka M. *see* **Ahmad, Shair, 2005k:34133**
Steinberger, Thomas *see* **Hofbauer, Franz et al., 2005m:37212**
Stević, Stevo A note on the recursive sequence $x_{n+1} = p_k x_n + p_{k-1} x_{n-1} + \cdots + p_1 x_{n-k+1}$. (English summary) **2005h:39018**
Su, Ning *see* **Ma, Li[2], 2005e:35078**

Suárez Fernández, Antonio *see* **Delgado Pineda, Miguel et al., 2005b:91180**; **Delgado Delgado, Manuel et al., 2005g:35170** *and* **2005i:92028**
Sumbatov, A. S. Equilibrium points of Volterra equations in the presence of shelter for the prey. (Russian. English and Russian summaries) **2005d:34109**
Sun, De Xian (*with* Chen, Feng De) Positive periodic solution of an integro-differential predator-prey system with infinite delays. (English summary) **2005a:34099**
Sun, Jian Hua[1] *see* **Chen, Liu Juan, 2005k:34114**
Sun, Li Hua *see* **Zeng, Guang Zhao et al., 2005m:34103**; **Gao, Shujing et al., 2005m:92053** *and* **Zhang, Yu Juan et al.**
Sun, Yonghong *see* **Cui, Jing An, 2005g:34170**
Syukuinn, Rai *see* **Nagai, Toshitaka et al., 2005h:35144**
Szederkényi, Gábor (*with* Hangos, Katalin M.) Global stability and quadratic Hamiltonian structure in Lotka-Volterra and quasi-polynomial systems. (English summary) **2005a:34073**
Taira, Kazuaki Diffusive logistic equations with degenerate boundary conditions. (English summary) **2005j:35076**
Takeuchi, Yasuhiro *see* **Yamaguchi, Masahiro**[1] **et al.**
Tan, De Jun *see* **Li, Bi Wen, 2005e:34147**
Tanaka, Naoki *see* **Matsumoto, Toshitaka et al., 2005f:47101**
Tang, Heng Sheng (*with* Zhang, Zheng Qiu) Periodic effect of cannibalism in a stage-structured predator-prey system. (Chinese. English and Chinese summaries) **2005j:34095**
Tang, Qi *see* **Rybka, Piotr et al., 2005b:45011**
Tang, Xian Hua (*with* Cheng, Sui Sun) Positive solutions of a neutral difference equation with positive and negative coefficients. (English summary) **2005c:39015**
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Tatar, Nasser-Eddine *see* **Kouche, Mehiéddine, 2005e:45016** *and* **Liu, Shengqiang et al., 2005h:34202**
Teng, Zhidong (*with* Li, Zhi Ming; Jiang, Haijun) Permanence criteria in non-autonomous predator-prey Kolmogorov systems and its applications. (English summary) **2005f:34101**
— *see also* **Abdurahman, Xamxinur, 2005a:34068**
Thieme, Horst R. (*with* Vosseler, Hauke) Semilinear perturbations of Hille-Yosida operators. (English summary) **2005g:47136**
— *see also* **Magal, P., 2005h:34161**
Tian, Bao Dan (*with* Wang, Hai Ling) Persistence of a nonautonomous system with Holling IV functional response and diffusion. (Chinese. English and Chinese summaries)
Tineo, Antonio Necessary and sufficient conditions for extinction of one species. (English summary) **2005k:34185**
Tkachenko, V. I. *see* **Liz, Eduardo et al., 2005m:34181**
Tonetto, Lorenza *see* **Fragnelli, Genni, 2005j:34085** *and* **Piazzera, Susanna, 2005j:34086**
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Traore, Oumar *see* **Ouedraogo, Albert, 2005m:49008**
Tripathi, Agraj *see* **Naresh, Ram et al.**
Trofimchuk, Sergei *see* **Liz, Eduardo et al., 2005m:34181**
Tsyganov, M. A. (*with* Brindley, J.; Holden, A. V.; Biktashev, Vadim N.) Soliton-like phenomena in one-dimensional cross-diffusion systems: a predator-prey pursuit and evasion example. (English summary) **2005e:35134**
— *see also* **Biktashev, Vadim N. et al.**
Uesugi, Kazuya (*with* Muroya, Yoshiaki; Ishiwata, Emiko) On the global attractivity for a logistic equation with piecewise constant arguments. (English summary) **2005a:34107**
Ugarcovici, Ilie (*with* Weiss, Howard N.) Chaotic dynamics of a nonlinear density dependent population model. (English summary) **2005j:37150**
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Umezu, Kenichiro Local bifurcation analysis and stability of steady-state solutions for diffusive logistic equations with nonlinear boundary conditions. (English summary) **2005h:35125**
— Multiplicity of positive solutions under nonlinear boundary conditions for diffusive logistic equations. (English summary) **2005k:35156**
Vaguina, M. Yu. A logistic model with delay averaging. (Russian. Russian summary) **2005h:34204**
(Verhulst, Pierre-François) *see* **Delmas, Bernard** *and* **Mawhin, Jean, (2005j:00015)**
(Volterra, Vito) *see* **Mawhin, Jean, (2005j:00015)**
Vosseler, Hauke *see* **Thieme, Horst R., 2005g:47136**
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Waltman, Paul *see* **Pilyugin, Sergei S., 2005c:34076**
Wang, Bai Yan *see* **Xiang, Hong et al., 2005d:34092** *and* **2005e:34135**
Wang, Changyou[2] *see* **Yang, Zhi Guo et al., 2005e:35136**
Wang, Ding-jiang (*with* Zhao, Ting-fang) Stable solution of nonlinear age-structured forest evolution system. (English summary) **2005k:35044**
Wang, Hai Ling *see* **Tian, Bao Dan**
Wang, Ji Hua (*with* Zeng, Xian Wu) Qualitative analysis of a predator-prey system with Holling type-IV functional response. (Chinese. English and Chinese summaries) **2005g:34113**
Wang, Jing[13] (*with* Wang, Ke[1]) Optimal control of harvesting for single population. (English summary)
Wang, Kai Fa (*with* Fan, Aijun) Uniform persistence and periodic solution of chemostat-type model with antibiotic. (English summary) **2005d:34152**
— *see also* **Qiu, Zhi Peng**[1], **2005j:34064**
Wang, Ke[1] *see* **Bai, Ling et al., 2005a:39022**; **Zhao, Chang Jian et al., 2005b:34146**; **Li, Zhan et al., 2005g:34081**; **Wang, Jing**[13] *and* **Yu, Wei Wei**
Wang, Li Jie *see* **Mo, Jia Qi et al.**
Wang, Lin Lin (*with* Li, Wan Tong) Existence of periodic solutions of a delayed predator-prey system with functional response. (English summary) **2005a:34100**
— (*with* Li, Wan Tong) Periodic solutions and stability for a delayed discrete ratio-dependent predator-prey system with Holling-type functional response. **2005g:39026**
— (*with* Li, Wan Tong) Existence and global attractivity of positive periodic solution for an impulsive delay population model. (English summary) **2005k:34306**
— Qualitative analysis of autonomous predator-prey systems with Holling type III functional response. (Chinese. English and Chinese summaries)
Wang, Mian Sen *see* **Luo, Zhi Xue et al., 2005b:91182**
Wang, Ming Xin[2] Stationary patterns of strongly coupled prey-predator models. (English summary) **2005a:35077**
— Stationary patterns for a prey-predator model with prey-dependent and ratio-dependent functional responses and diffusion. (English summary) **2005d:35109**
— *see also* **Chen, Wen Yan, 2005a:35072**; **2005b:35059**; **Pang, Peter Y. H., 2005e:35053**; **Peng, Rui, 2005j:35126** *and* **Chen, Yunlan**
Wang, Qian[4] *see* **Fan, Meng**[1], **2005e:39030**
Wang, Tianxiao *see* **Chen, Shi Hua**[3] **et al., 2005c:34140**
Wang, Wei Dong[1] *see* **Liu, Zhi Jun**[2], **2005h:34183**
Wang, Wen-di *see* **Li, Xiu Ying**[2]
Wang, Xiao Ping (*with* Liao, Liu Sheng) Global attractivity of the zero solution of the super logistic type functional differential equations. (Chinese. English and Chinese summaries) **2005d:34170**
Wang, Yi *see* **Gyllenberg, Mats, 2005f:34129** *and* **2005k:34163**
Wang, Yi (*with* Chen, Fang-Yue) The entropy of stationary solutions' map of cellular neural networks. (English summary) **2005j:37036**
Wang, Yongqi *see* **Hayat, Tasawar et al., 2005b:76148**
Wang, Yu-quan (*with* Ma, Jun-ying) Qualitative analysis on a class of predator-prey model with Holling III functional response. (English and Chinese summaries)
Wang, Zhi Cheng[1] *see* **Zhang, Zheng Qiu et al., 2005b:34094**; **2005e:34220** *and* **2005e:34221**
Wang, Zhi Guo (*with* Li, Yan Ling[2]) Asymptotic behavior in a general diffusive three-species competitor-mutualist model. (Chinese. English and Chinese summaries)
Waniewski, Jacek (*with* Jędruch, Wojciech; Żołek, Norbert S.) Dynamic stability and spatial heterogeneity in the individual-based modelling of a Lotka-Volterra gas. (English summary)
Waxman, David *see* **Rybka, Piotr et al., 2005b:45011**
Wei, Jun Jie (*with* Li, Michael Y.) Hopf bifurcation analysis in a delayed Nicholson blowflies equation. (English summary) **2005k:34279**
— *see also* **Song, Yong Li et al., 2005j:37076**
Weiss, Howard N. *see* **Ugarcovici, Ilie, 2005j:37150**
Weng, Peixuan (*with* Wu, Jian Hong; Huang, Huaxiong; Ling, Jiaoxiu) Asymptotic speed of propagation of wave fronts in a 2D lattice delay differential equation with global interaction. (English summary) **2005k:35412**
White, Andrew R. (*with* Bowers, Roger G.) Adaptive dynamics of Lotka-Volterra systems with trade-offs: the role of interspecific parameter dependence in branching. (English summary) **2005j:92019**
Wiuf, Carsten *see* **Hein, Jotun et al., 2005m:92021**
Wolkowicz, Gail S. K. *see* **Wu, Jian Hua**[3] **et al., 2005k:35207**
Wong, Kwok-Wo *see* **Li, Chuandong et al., 2005h:37212**
Wong, Patricia J. Y. *see* **Fan, Meng**[1] **et al., 2005f:34190**
Wu, Cheng Qiang Limit cycles of a kind of predator-prey system with functional response. (Chinese. English and Chinese summaries)
Wu, Jian Hong *see* **Liang, Dong et al., 2005k:35411** *and* **Weng, Peixuan et al., 2005k:35412**
Wu, Jian Hua[3] (*with* Nie, Hua; Wolkowicz, Gail S. K.) A mathematical model of competition for two essential resources in the unstirred chemostat. (English summary) **2005k:35207**
Wu, Jun[5] *see* **Zhang, Zheng Qiu et al., 2005b:34094**
Wu, Shaobo (*with* Ren, Gexue) A note on delay-independent stability of a predator-prey model. (English summary)
Xia, Yong Hui (*with* Cao, Jin De; Zhang, Hui Ying; Chen, Feng De) Almost periodic solutions of n-species competitive system with feedback controls. (English summary) **2005d:34114**
Xiang, Hong (*with* Yan, Ke-Ming; Wang, Bai Yan) Periodic solution of a nonautonomous Leslie-Gower predator-prey system. (English summary) **2005e:34135**
— (*with* Wang, Bai Yan; Yan, Ke-Ming) Periodic solution of a nonautonomous semi-ratio-dependent predator-prey model with the Beddington-DeAngelis functional response. (English summary) **2005d:34092**
Xiao, Dong-mei *see* **Huang, Ji-cai, 2005d:34102**
Xiao, Qing Feng *see* **Gu, Guangze et al., 2005m:34160**
Xiao, Yan Ni (*with* Chen, Lan Sun) Global stability of a predator-prey system with stage structure for the predator. (English summary) **2005c:34104**
Xu, Dashun (*with* Zhao, Xiao-Qiang) A nonlocal reaction-diffusion population model with stage structure. (English summary) **2005k:35413**
— Global dynamics and Hopf bifurcation of a structured population model. (English summary) **2005k:34280**
Xu, Jianhong *see* **Kirkland, Steve et al., 2005i:15016**
Xu, Rui[2] (*with* Chen, Lan Sun; Hao, Fei-long) Periodic solutions of a delayed predator-prey model with stage structure for prey. (English summary) **2005b:34143**
— (*with* Chaplain, Mark A. J.; Davidson, Fordyce A.) Periodic solutions of a predator-prey model with stage structure for predator. (English summary) **2005b:34144**
— (*with* Chaplain, Mark A. J.; Davidson, Fordyce A.) Persistence and global stability of a ratio-dependent predator-prey model with stage structure. (English summary) **2005g:34115**
— (*with* Chaplain, Mark A. J.; Davidson, Fordyce A.) Persistence and periodicity of a delayed ratio-dependent predator-prey model with stage structure and prey dispersal. (English summary) **2005e:34218**
— (*with* Chaplain, Mark A. J.; Davidson, Fordyce A.) Global stability of a Lotka-Volterra type predator-prey model with stage structure and time delay. (English summary) **2005f:34219**
— (*with* Chaplain, Mark A. J.; Davidson, Fordyce A.) Periodic solutions of a discrete nonautonomous Lotka-Volterra predator-prey model with time delays. (English summary) **2005f:39046**
— (*with* Chaplain, Mark A. J.; Davidson, Fordyce A.) Global asymptotic stability of periodic solution for a cooperative system with time delays. (English summary) **2005j:34102**
— (*with* Chaplain, Mark A. J.; Davidson, Fordyce A.) Periodic solutions of a delayed predator-prey model with stage structure for predator. **2005d:34153**
— (*with* Chaplain, Mark A. J.; Davidson, Fordyce A.) Periodic solutions of a delayed

population model with one predator and two preys. (English summary) **2005j:34096**
— (*with* Hao, Fei-long) Global attractiveness in Lotka-Volterra food-chain model with infinite delays. (English and Chinese summaries) **2005f:34220**
— (*with* Chaplain, Mark A. J.; Davidson, Fordyce A.) Periodic solution for a three-species Lotka-Volterra food-chain model with time delays. (English summary) **2005g:34176**
— (*with* Chaplain, Mark A. J.; Davidson, Fordyce A.) Periodic solutions of a discrete time three-species Lotka-Volterra food-chain system. (English summary) **2005f:39047**
— (*with* Chaplain, Mark A. J.; Davidson, Fordyce A.) Periodic solutions for a predator-prey model with Holling-type functional response and time delays. (English summary) **2005h:34190**
— (*with* Chaplain, Mark A. J.; Davidson, Fordyce A.) Permanence and periodicity of a delayed ratio-dependent predator-prey model with stage structure. (English summary) **2005k:34274**
— (*with* Chaplain, Mark A. J.; Davidson, Fordyce A.) Modelling and analysis of a competitive model with stage structure. (English summary) **2005k:34204**
— *see also* **Liu, Qi Ming[2], 2005b:34160**; **2005f:34194**; **Chen, Guo-li et al., 2005k:34261** *and* **Yang, Ping-Hua et al.**
Xu, Xiaojie *see* **Jiang, Da Qing et al., 2005m:34161**
Yagi, Atsushi *see* **Aida, Masashi, 2005a:35151**
Yamaguchi, Masahiro[1] (*with* Takeuchi, Yasuhiro; Ma, Wanbiao) Population dynamics of sea bass and young sea bass. (English summary)
Yan, Ju Rang (*with* Zhao, Aimin; Nieto Roig, Juan José) Existence and global attractivity of positive periodic solution of periodic single-species impulsive Lotka-Volterra systems. (English summary) **2005g:34177**
Yan, Ke-Ming *see* **Xiang, Hong et al., 2005d:34092** *and* **2005e:34135**
Yan, Xin Rong Periodic positive solution of a multi-delay competition system. (Chinese. English and Chinese summaries)
Yang, Jianping[1] *see* **Li, Xiao-yue et al., 2005f:34205**
Yang, Ping-Hua (*with* Ge, Wei Gao) Periodic solution for a delayed ratio-dependent P-P system with feedback control. (English summary)
— (*with* Xu, Rui[2]; Hao, Fei-long) Existence and global asymptotic stability of periodic solution in a n-species cooperative system with time delays. (English summary)
Yang, Qi Chang *see* **Zhao, Li Chun et al.**
Yang, Xiao Yong Properties of solutions to a mutualistic model. (Chinese. English and Chinese summaries)
Yang, Zhaoyu *see* **Jing, Hai Ying, 2005h:93085**
Yang, Zhi Chun Persistence and periodic solution for a predator-prey system with impulse and type III functional response. (Chinese. English and Chinese summaries)
Yang, Zhi Guo (*with* Li, Shu Yong[1]; Wang, Changyou[2]) Existence of wave front solutions of an n-dimensional cooperative Lotka-Volterra system with diffusion and delays. (Chinese. English and Chinese summaries) **2005e:35136**
Yang, Zhihui Positive periodic solutions for a class of nonlinear delay equations. (English summary) **2005h:34214**
— (*with* Cao, Jin De) Existence of periodic solutions in neutral state-dependent delays equations and models. (English summary) **2005h:34191**
Yao, Zhijian Periodic solution and almost periodic solution of nonautonomous competitive model with stage structure and harvesting. (English summary) **2005m:34168**
Ye, Dan (*with* Fan, Meng[1]; Zhang, Wei Peng[1]) Existence of nontrivial positive periodic solution for a predator-prey system with Holling type II functional response. (Chinese. English and Chinese summaries)
— (*with* Fan, Meng[1]) Periodicity in impulsive predator-prey system with Holling III functional response. (English summary) **2005g:34020**
— (*with* Fan, Meng[1]; Zhang, Wei Peng[1]) Periodic solutions of density dependent predator-prey systems with Holling type 2 functional response and infinite delays. (English summary)
— *see also* **Fan, Meng[1] et al., 2005f:34190**
Yin, Fu-qi (*with* Li, Yong Kun) Positive periodic solutions of a single species model with feedback regulation and distributed time delay. (English summary) **2005e:34219**
Yin, Y. X. *see* **Kim, Mi-Young[2], 2005e:65146**
Yu, Min *see* **Hu, Xiao Hua**
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Yu, Wei Wei (*with* Wang, Ke[1]) Almost periodic solution of a nonautonomous diffusion Lotka-Volterra competition patches system. (Chinese. English and Chinese summaries)
Yuan, Cheng Gui *see* **Mao, Xuerong et al., 2005k:60182**
Yuan, Rong[1] *see* **Liu, Zhi Hua[2], 2005d:34161**; **2005i:34088** *and* **2005j:35122**
Yuan, San Ling (*with* Song, Yong Li; Han, Mao An) Direction and stability of bifurcating periodic solutions of a chemostat model with two distributed delays. (English summary) **2005d:34157**
Zaghrout, A. A. S. (*with* Kandil, F.; Joharji, N.) On stability and Hopf bifurcation of a chemostat model with delay. (English summary) **2005f:34224**
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Zeng, Guang Zhao (*with* Chen, Lan Sun; Sun, Li Hua; Liu, Ying[4]) Permanence and the existence of the periodic solution of the non-autonomous two-species competitive model with stage structure. (English summary) **2005m:34103**
Zeng, Xian Wu *see* **Wang, Ji Hua, 2005g:34113**
Zeng, Yong Fu Exponential stability of Lotka-Volterra equations with delay. (Chinese. English and Chinese summaries) **2005i:34098**
Zhang, Fan[4] *see* **Liang, Dong et al., 2005b:34167** *and* **2005k:35411**
Zhang, Hui Ying (*with* Chen, Feng De) Positive periodic solutions for a three-species food chain system with Beddington-DeAngelis functional response. (Chinese. English and Chinese summaries)
— *see also* **Xia, Yong Hui et al., 2005d:34114**
Zhang, Junhua *see* **Chen, Shi Hua[3] et al., 2005c:34140**
Zhang, Ping Guang (*with* Zhao, Shen Qi) Uniqueness of the limit cycle of general Liénard equations. (Chinese. English and Chinese summaries) **2005k:34120**
Zhang, Qing Ling *see* **Zhao, Li Chun et al.**
Zhang, Shuwen (*with* Dong, Linzhen; Chen, Lan Sun) The study of predator-prey system with defensive ability of prey and impulsive perturbations on the predator. (English summary) **2005d:34113**
— (*with* Chen, Lan Sun) Chaos in three species food chain system with impulsive perturbations. (English summary) **2005h:34108**
Zhang, Wei Peng[1] *see* **Ye, Dan et al.**
Zhang, Yu Hui[2] Moments of the hitting time for single birth processes. (Chinese. English and Chinese summaries) **2005d:60121**
Zhang, Yu Juan (*with* Chen, Lan Sun; Sun, Li Hua) Analysis of a predator-prey system with impulsive effect. (Chinese. English and Chinese summaries)
— (*with* Chen, Lan Sun; Liu, Bing[3]) The periodic Holling II predator-prey model with impulsive effect. (English summary) **2005g:34021**
— (*with* Liu, Bing[3]; Chen, Lan Sun) Dynamical behavior of Volterra model with mutual interference concerning IPM. (English summary) **2005c:34016**
— *see also* **Liu, Bing[3] et al., 2005d:34019** *and* **2005k:34026**
Zhang, Zheng Qiu (*with* Wang, Zhi Cheng[1]) Periodic solution of a predator-prey diffusive system of three species with ratio-dependence. (Chinese. English and Chinese summaries) **2005e:34220**
— (*with* Wu, Jun[5]; Wang, Zhi Cheng[1]) Periodic solutions of nonautonomous stage-structured cooperative system. (English summary) **2005b:34094**
— (*with* Wang, Zhi Cheng[1]) The existence of a periodic solution for a generalized prey-predator system with delay. (English summary) **2005e:34221**
— Periodic solutions of a predator-prey system with stage-structures for predator and prey. (English summary) **2005i:34056**
— *see also* **Tang, Heng Sheng, 2005j:34095**
Zhao, Aimin *see* **Yan, Ju Rang et al., 2005g:34177**
Zhao, Chang Jian (*with* Debnath, Lokenath; Wang, Ke[1]) Positive periodic solutions of a delayed model in population. (English summary) **2005b:34146**
Zhao, Chunshan *see* **Li, Yi[2], 2005i:35147**
Zhao, Jian-dong (*with* Jiang, Jifa) Permanence in nonautonomous Lotka-Volterra system with predator-prey. (English summary) **2005b:34108**
— (*with* Chen, Wen Cheng) The persistence and extinction in a competitive Lotka-Volterra system. (English and Chinese summaries)
— (*with* Jiang, Jifa) Average conditions for permanence and extinction in nonautonomous Lotka-Volterra system. (English summary) **2005f:34102**
Zhao, Li Chun (*with* Zhang, Qing Ling; Yang, Qi Chang) Induction control of a three-species model with partial harm relations. (Chinese. English and Chinese summaries)
Zhao, Shen Qi *see* **Zhang, Ping Guang, 2005k:34120**
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Zhi, Ying *see* **Liu, Bing[3] et al., 2005d:34018**
Zhou, Yinggao Oscillation of higher-order nonlinear delay difference equations. (English summary) (*see* **2005c:39001**)
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Items listed otherwise than by author

Będlewo ★ Mathematical modelling of population dynamics. **2005a:92003**
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"Delay differential logistic equations with harvesting" Publisher's note: "Delay differential logistic equations with harvesting" [Math. Comput. Modelling 39 (2004), no. 11-12, 1243–1259; MR2078425 (2005e:34207)] by L. Berezansky, E. Braverman and L. Idels. **2005k:34258**
Mathematical modelling of population dynamics ★ Mathematical modelling of population dynamics. **2005a:92003**

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Abu-Raddad, L. J. (*with* Ferguson, Neil M.) Characterizing the symmetric equilibrium of multi-strain host-pathogen systems in the presence of cross immunity. (English summary) **2005m:92049**
Aldis, Geoffrey K. (*with* Roberts, M. G.) An integral equation model for the control of a smallpox outbreak. (English summary)
— *see also* **Becker, Niels G. et al.**
Allen, Linda J. S. (*with* Kirupaharan, Nadarajah) Asymptotic dynamics of deterministic and stochastic epidemic models with multiple pathogens. (English summary)
— *see also* **Emmert, Keith E., 2005f:92029**
de Almeida, Liz M. *see* **Amaku, Marcos et al., (2005d:92001)**
Amaku, Marcos (*with* de Almeida, Liz M.; Azevedo-Neto, R. S.; Massad, Eduardo; Coutinho, Francisco A. B.) Modelling optimal ages of vaccination for hepatitis A. (English summary) (*see* **2005d:92001**)
Ardal, Sten *see* **Webb, Glenn F. et al., 2005k:92068**
Avilov, K. K. *see* **Perelman, M. I. et al.**
Azevedo-Neto, R. S. *see* **Amaku, Marcos et al., (2005d:92001)**
Bacaër, Nicolas (*with* Sokhna, Cheikh) A reaction-diffusion system modeling the spread of resistance to an antimalarial drug. (English summary) **2005m:92050**
Bai, Yanping (*with* Jin, Zhen) Prediction of SARS epidemic by BP neural networks with online prediction strategy. (English summary)
Ball, Frank G. (*with* Britton, Tom; Lyne, Owen D.) Stochastic multitype epidemics in a community of households: estimation and form of optimal vaccination schemes. (English summary) **2005c:92034**
de Barros, Laécio Carvalho (*with* Bassanezi, Rodney Carlos; De Oliveira, Renata Z. G.) Fuzzy differential inclusion: an application to epidemiology. (*see* **2005i:62007**)
— *see also* **Jafelice, Rosana Motta et al.**
Bassanezi, Rodney Carlos *see* **de Barros, Laécio Carvalho et al., (2005i:62007)** *and* **Jafelice, Rosana Motta et al.**

Becker, Niels G. (*with* Glass, Kathryn; Li, Zhengfeng; Aldis, Geoffrey K.) Controlling emerging infectious diseases like SARS. (English summary)
Berezovskaya, F. S. (*with* Karev, G. P.; Song, Baojun[1]; Castillo-Chavez, Carlos) A simple epidemic model with surprising dynamics. (English summary) **2005m:92051**
Bernardino, N. R. *see* **Verdasca, J. et al.**
Blaser, Martin J. *see* **Webb, Glenn F. et al., 2005k:92068**
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— *see also* **Zhou, Yi Cang et al., 2005i:92031**
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Bukhanovsky, A. V. *see* **Kiryukhin, Ilia et al., (2005c:00014)**
Burr, Tom (*with* Gattiker, James) The impact of model uncertainty on biological parameter estimates. (English summary)
Calvez, V. (*with* Korobeinikov, Andrei; Maini, Philip K.) Cluster formation for multi-strain infections with cross-immunity. (English summary) **2005i:92027**
Cârstea, A. S. *see* **Tamizhmani, K. M. et al., 2005e:92041** *and* **Ramani, A. et al., 2005g:92039**
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Chandra, Peeyush *see* **Ghosh, Mini et al., 2005a:92056** *and* **2005h:92030**
Chen, Bo Wen *see* **Hu, Bao An et al., 2005k:92064**
Chen, Guanrong *see* **Li, Xiang[2] et al.**
Chen, Jun Jie Stability of an SIRI epidemic model with immigration and a varying total population size. (Chinese. English and Chinese summaries)
Chen, Lan Sun *see* **Hui, Jing, 2005c:92039**; **Lu, Zhonghua et al., 2005c:92041**; **Gao, Shujing et al., 2005m:92053** *and* **Zeng, Guang Zhao et al., 2005m:92062**
Chen, Wei Yin (*with* Bokka, Sankar) Stochastic modeling of nonlinear epidemiology. (English summary)
Chowell, G. (*with* Hengartner, Nicolas W.; Castillo-Chavez, Carlos; Fenimore, P. W.; Hyman, James M.) The basic reproductive number of Ebola and the effects of public health measures: the cases of Congo and Uganda. (English summary)
Cipolatti, R. (*with* López Gondar, J.) Dynamics of a virtual virus infection process involving a spatial distribution of interacting computers. (English summary) **2005g:92038**
Cisternas, Jaime (*with* Gear, C. William; Levin, Simon A.; Kevrekidis, Ioannis G.) Equation-free modelling of evolving diseases: coarse-grained computations with individual-based models. (English summary) **2005f:92028**
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Coutinho, Francisco A. B. *see* **Amaku, Marcos et al., (2005d:92001)**
Crück, Eva (*with* Seube, N.; Leitmann, George) Estimation of the attractor for an uncertain epidemic model. (English summary) **2005b:92052**
Darensburg, Tahera (*with* Kocic, Vlajko L.) On the discrete model of West Nile-like epidemics. (English summary) (*see* **2005i:00016**)
Delgado Delgado, Manuel (*with* Molina-Becerra, Mónica; Suárez Fernández, Antonio) Relating disease and predation: equilibria of an epidemic model. (English summary) **2005i:92028**
De Los Rios, Paolo *see* **Petermann, Thomas**
Del Valle, S. (*with* Hethcote, H.; Hyman, James M.; Castillo-Chavez, Carlos) Effects of behavioral changes in a smallpox attack model. (English summary) **2005m:92052**
De Oliveira, Renata Z. G. *see* **de Barros, Laécio Carvalho et al., (2005i:62007)**
Di Mascio, Michele (*with* Ribeiro, Ruy M.; Markowitz, Martin; Ho, David D.; Perelson, Alan S.) Modeling the long-term control of viremia in HIV-1 infected patients treated with antiretroviral therapy. (English summary) **2005b:92053**
Dodds, P. S. (*with* Watts, D. J.) A generalized model of social and biological contagion. (English summary)
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— *see also* **McCluskey, C. Connell, 2005f:92032**
Eames, Ken T. D. (*with* Keeling, Matt J.) Monogamous networks and the spread of sexually transmitted diseases. (English summary) **2005a:92055**
El-Doma, M. Analysis of an age-dependent SI epidemic model with disease-induced mortality and proportionate mixing assumption: the case of vertically transmitted diseases. **2005c:92035**
— Analysis of an age-structured epidemic model with vertical transmission and proportionate mixing assumption. (English summary) **2005c:92036**
Emmert, Keith E. (*with* Allen, Linda J. S.) Population persistence and extinction in a discrete-time, stage-structured epidemic model. (English summary) **2005f:92029**
Engelstädter, Jan (*with* Telschow, Arndt; Hammerstein, Peter) Infection dynamics of different *Wolbachia*-types within one host population. (English summary)
Fan, Zhi Liang An SIR epidemic model with infectious rate $\beta(N)$ and exponential birth rate. (Chinese. English and Chinese summaries)
Fang, Qin Hua *see* **Zheng, Li Li et al.**
Feng, Zhi Lan *see* **Nuño, M. et al., 2005k:92067**
Fenimore, P. W. *see* **Chowell, G. et al.**
Fergola, Paolo *see* **Zhou, Yi Cang, 2005b:92062**
Ferguson, Neil M. *see* **Abu-Raddad, L. J., 2005m:92049** *and* **Hagenaars, T. J. et al.**
Fitzgibbon, William E. (*with* Langlais, Michel; Morgan, Jeffrey J.; Pontier, D.; Wolf, Cédric) An age-dependent model describing the spread of panleucopenia virus within feline populations. (English summary) **2005d:92022**
— (*with* Langlais, Michel; Morgan, Jeffrey J.) A reaction-diffusion system modeling direct and indirect transmission of diseases. (English summary) **2005c:92037**
French, Nigel P. *see* **Xiao, Yan Ni et al.**
Fu, Chao Jin Study on stability of an SIS epidemiological model with time-varying delay. (Chinese. English and Chinese summaries)
Fu, Sheng Mao *see* **Yang, Xiao Yong**
Fuhrman, K. M. (*with* Lauko, I. G.; Pinter, Gabriella A.) Asymptotic behavior of an SI epidemic model with pulse removal. (English summary)
Funk, Georg A. (*with* Jansen, Vincent A. A.; Bonhoeffer, Sebastian; Killingback, Timothy) Spatial models of virus-immune dynamics. (English summary)
— *see also* **Jansen, Vincent A. A. et al.**
Galvani, Alison P. *see* **Porco, Travis C. et al.**
Gao, Shujing (*with* Chen, Lan Sun; Sun, Li Hua) Dynamic complexities in a seasonal prevention epidemic model with birth pulses. (English summary) **2005m:92053**
— *see also* **Lu, Zhonghua et al., 2005c:92041**
Gattiker, James *see* **Burr, Tom**
Gear, C. William *see* **Cisternas, Jaime et al., 2005f:92028**
Gessler, Damian *see* **Zuev, S. M.**
Ghosh, Mini (*with* Chandra, Peeyush; Sinha, Prawal; Shukla, J. B.) Modelling the spread of carrier-dependent infectious diseases with environmental effect. (English summary) **2005a:92056**
— (*with* Chandra, Peeyush; Sinha, Prawal; Shukla, J. B.) Modelling the spread of bacterial disease: effect of service providers from an environmentally degraded region. (English summary) **2005h:92030**
— *see also* **Pugliese, Andrea et al., (2005d:92001)**
Ghoshal, G. (*with* Sander, Leonard M.; Sokolov, Igor M.) SIS epidemics with household structure: the self-consistent field method. (English summary) **2005b:92054**
Gilchrist, Michael A. (*with* Coombs, Daniel; Perelson, Alan S.) Optimizing within-host viral fitness: infected cell lifespan and virion production rate. (English summary)
— *see also* **Nelson, Patrick W. et al., 2005k:92066**
Glass, Kathryn *see* **Becker, Niels G. et al.**
Gomes, M. Gabriela M. (*with* White, Lisa J.; Medley, Graham F.) Infection, reinfection, and vaccination under suboptimal immune protection: epidemiological perspectives. (English summary)
Gomes, Manuel C. *see* **Verdasca, J. et al.**
Gómez-Acevedo, Horacio Global stability in a model for diseases transmitted by ixodid ticks. (English summary) **2005k:92063**
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Grammaticos, B. *see* **Tamizhmani, K. M. et al., 2005e:92041** *and* **Ramani, A. et al., 2005g:92039**
Greenhalgh, David (*with* Khan, Q. J. A.; Lewis, F. I.) Hopf bifurcation in two SIRS density dependent epidemic models. (English summary) **2005c:92038**
Gross, Kimber L. *see* **Porco, Travis C. et al.**
Gupta, Sunetra *see* **Recker, Mario**
Gupur, Geni *see* **Li, Xue Zhi, 2005b:92057**
Hagenaars, T. J. (*with* Donnelly, Christl A.; Ferguson, Neil M.) Spatial heterogeneity and the persistence of infectious diseases. (English summary)
Halloran, M. Elizabeth *see* **Patel, Rajan et al.**
Hammerstein, Peter *see* **Engelstädter, Jan et al.**
Han, Li Tao (*with* Yuan, San Ling; Ma, Zhi En) Persistence of an SIRS epidemic model of two competitive species. (Chinese. English and Chinese summaries)
Heesterbeek, Hans *see* **Trapman, Pieter et al., 2005g:92040**
Hengartner, Nicolas W. *see* **Chowell, G. et al.**
Hethcote, H. *see* **Del Valle, S. et al., 2005m:92052**
Ho, David D. *see* **Di Mascio, Michele et al., 2005b:92053**
Hu, Bao An (*with* Chen, Bo Wen; Yuan, Cun De) An SIS epidemic model with two-stage structure. (Chinese. English and Chinese summaries) **2005k:92064**
Hu, Xin Li (*with* Wang, Kai Ming; Jin, Shang Hai) Global existence of periodic solutions for a SIR epidemic model. (Chinese. English and Chinese summaries)
Huang, Xun C. (*with* Villasana, Minaya) An extension of the Kermack-McKendrick model for AIDS epidemic. (English summary)
Huang, Yu Mei (*with* Li, Shu Yong[1]; Pan, Jie[2]) A SIRS infectious disease model with stage-structure. (Chinese. English and Chinese summaries)
Hudson, Peter J. *see* **Norman, Rachel Ann et al., 2005e:92039**
Huggins, Richard M. *see* **Qian, Guoqi et al.**
Hui, Jing (*with* Chen, Lan Sun) Impulsive vaccination of SIR epidemic models with nonlinear incidence rates. (English summary) **2005c:92039**
Hwang, Dong-Uk (*with* Boccaletti, S.; Moreno, Yamir; López-Ruiz, Ricardo) Thresholds for epidemic outbreaks in finite scale-free networks. (English summary)
Hyman, James M. (*with* Li, Jia[2]) The reproductive number for an HIV model with differential infectivity and staged progression. (English summary) **2005i:92029**
— *see also* **Nelson, Patrick W. et al., 2005k:92066**; **Del Valle, S. et al., 2005m:92052** *and* **Chowell, G. et al.**
Iannelli, Mimmo (*with* Martcheva, Maia; Li, Xue Zhi) Strain replacement in an epidemic model with super-infection and perfect vaccination. (English summary) **2005m:92054**
Inaba, Hisashi (*with* Sekine, Hisashi) A mathematical model for Chagas disease with infection-age-dependent infectivity. (English summary) **2005b:92055**
Iwasa, Yoh (*with* Michor, Franziska; Nowak, Martin A.) Some basic properties of immune selection. (English summary)
— (*with* Michor, Franziska; Nowak, Martin A.) Virus evolution within patients increases pathogenicity. (English summary)
Jacob, Christine (*with* Viet, Anne-France) Modeling of a disease evolution in a large branching population. (English summary) (*see* **2005d:92001**)
— (*with* Viet, Anne-France) Epidemiological modeling in a branching population. Particular case of a general SIS model with two age classes. (English summary) **2005e:92038**
Jafelice, Rosana Motta (*with* de Barros, Laécio Carvalho; Bassanezi, Rodney Carlos;

Gomide, Fernando Antonio) Methodology to determine the evolution of asymptotic HIV population using fuzzy set theory. (English summary)

Jansen, Vincent A. A. (*with* Korthals Altes, Hester; Funk, Georg A.; Wodarz, Dominik) Contrasting B cell- and T cell-based protective vaccines. (English summary)

— *see also* **Lloyd, Alun L., 2005a:92059** *and* **Funk, Georg A. et al.**

Jin, Shang Hai *see* **Hu, Xin Li et al.**

Jin, Yu[1] (*with* Wang, Wen-di) The effect of population dispersal on the spread of a disease. (English summary) **2005m:92055**

Jin, Zhen (*with* Ma, Zhi En; Yuan, San Ling) A SIR epidemic model with varying population size. (Chinese. English and Chinese summaries) **2005b:92056**

— (*with* Ma, Zhi En) The SIR epidemical models with continuous and impulsive vaccinations. (Chinese. English and Chinese summaries)

— *see also* **Yuan, San Ling et al., 2005a:92060** *and* **Bai, Yanping**

Joo, Jaewook (*with* Lebowitz, Joel L.) Pair approximation of the stochastic susceptible-infected-recovered-susceptible epidemic model on the hypercubic lattice. (English summary) **2005j:92028**

Kakehashi, Masayuki *see* **Srinivasa Rao, Arni S. R.**

Kamo, Masashi (*with* Boots, Michael) The curse of the pharaoh in space: free-living infectious stages and the evolution of virulence in spatially explicit populations. (English summary)

Karev, G. P. *see* **Berezovskaya, F. S. et al., 2005m:92051**

Karkach, A. S. *see* **Perelman, M. I. et al.**

Kaski, Kimmo *see* **Saramäki, Jari**

Kazennykh, B. Ya. *see* **Perelman, M. I. et al.**

Keeling, Matt J. *see* **Eames, Ken T. D., 2005a:92055**

Kegan, Bonnie (*with* West, R. Webster) Modeling the simple epidemic with deterministic differential equations and random initial conditions. (English summary) **2005m:92056**

— (*with* West, R. Webster) Modeling the simple epidemic with deterministic differential equations and random initial conditions. (English summary) **2005m:92057**

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Kevrekidis, Ioannis G. *see* **Cisternas, Jaime et al., 2005f:92028**

Khan, Q. J. A. *see* **Greenhalgh, David et al., 2005c:92038**

Killingback, Timothy *see* **Funk, Georg A. et al.**

Kirschner, Denise E. *see* **Singer, Benjamin H.**

Kirupaharan, Nadarajah *see* **Allen, Linda J. S.**

Kiryukhin, Ilia (*with* Saskov, Kirill; Bukhanovsky, A. V.; Keulen, Wilco; Boucher, Charles; Sloot, Peter M. A.) Stochastic modeling of temporal variability of HIV-1 population. (English summary) (*see* **2005c:00014**)

Knolle, Helmut A discrete branching process model for the spread of HIV via steady sexual partnerships. (English summary) **2005a:92057**

Kocic, Vlajko L. *see* **Darensburg, Tahera, (2005i:00016)**

Korobeinikov, Andrei (*with* Maini, Philip K.) A Lyapunov function and global properties for SIR and SEIR epidemiological models with nonlinear incidence. (English summary) **2005k:92065**

— *see also* **Calvez, V. et al., 2005i:92027**

Korthals Altes, Hester *see* **Jansen, Vincent A. A. et al.**

Kyrychko, Yuliya N. *see* **Blyuss, Konstantin B., 2005f:92027**

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Levin, Simon A. *see* **Cisternas, Jaime et al., 2005f:92028**

Lewis, F. I. *see* **Greenhalgh, David et al., 2005c:92038**

Li, Chun Guang *see* **Li, Xiang[2] et al.**

Li, Jia[2] *see* **Hyman, James M., 2005i:92029**

Li, Jian Quan[1] (*with* Zhang, Juan[3]; Ma, Zhi En) Global analysis of some epidemic models with general contact rate and constant immigration. (Chinese. English and Chinese summaries) **2005a:92058**

— (*with* Ma, Zhi En) Global analysis of SIS epidemic models with variable total population size. (English summary) **2005c:92040**

— *see also* **Zhang, Juan[3] et al., 2005b:92061**

Li, Shu Yong[1] *see* **Huang, Yu Mei et al.**

Li, Xiang[2] (*with* Chen, Guanrong; Li, Chun Guang) Stability and bifurcation of disease spreading in complex networks. (English summary)

Li, Xiu Ying[2] (*with* Wang, Wen-di) A discrete epidemic model with stage structure. (English summary) **2005m:92058**

Li, Xue Zhi (*with* Gupur, Geni) Global stability of an age-structured SIRS epidemic model with vaccination. (English summary) **2005b:92057**

— *see also* **Iannelli, Mimmo et al., 2005m:92054** *and* **Wang, Shi Fei**

Li, Zhengfeng *see* **Becker, Niels G. et al.**

Liu, Jingzhou (*with* Wu, Jinshan; Yang, Zhan Ru) The spread of infectious disease on complex networks with household-structure. (English summary)

Lloyd, Alun L. (*with* Jansen, Vincent A. A.) Spatiotemporal dynamics of epidemics: synchrony in metapopulation models. (English summary) **2005a:92059**

Lloyd-Smith, James O. *see* **Porco, Travis C. et al.**

Loesch, Danuta Z. *see* **Qian, Guoqi et al.**

Longini, Ira M., Jr. *see* **Patel, Rajan et al.**

López Gondar, J. *see* **Cipolatti, R., 2005g:92038**

López-Ruiz, Ricardo *see* **Hwang, Dong-Uk et al.**

Lou, Jie (*with* Lou, Mei Zhi; Zhou, Yi) Influence of response time on the condition of HIV in China. (Chinese. English and Chinese summaries)

Lou, Mei Zhi *see* **Lou, Jie et al.**

Lu, Jin Mei *see* **Lu, Zhi Qi**

Lu, Zhi Qi (*with* Yuan, Jun Li) A ratio-dependent delayed model for cell-to-cell spread of HIV-1. (Chinese. English and Chinese summaries)

— (*with* Lu, Jin Mei) Mathematical analysis of a ratio-dependent model for HIV-1 infection. (Chinese. English and Chinese summaries)

Lu, Zhonghua (*with* Gao, Shujing; Chen, Lan Sun) Analysis of an SI epidemic model with nonlinear transmission and stage structure. (English summary) **2005c:92041**

Lyne, Owen D. *see* **Ball, Frank G. et al., 2005c:92034**

Ma, Zhi En *see* **Li, Jian Quan[1] et al., 2005a:92058; 2005c:92040; Yuan, San Ling et al., 2005a:92060; Jin, Zhen et al., 2005b:92056; Zhang, Juan[3] et al., 2005b:92061; Zhou, Yi Cang et al., 2005i:92031; Han, Li Tao et al.** *and* **Wang, Feng et al.**

Maini, Philip K. *see* **Calvez, V. et al., 2005i:92027** *and* **Korobeinikov, Andrei, 2005k:92065**

Marchuk, Gurii I. *see* **Perelman, M. I. et al.**

Margaria, Gabriella (*with* Riccomagno, Eva; White, Lisa J.) Structural identifiability analysis of some highly structured families of statespace models using differential algebra. (English summary) **2005f:92030**

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Martsenyuk, Vasil' P. On stability in an immune protection model taking into account damage to the target organ: the degenerate Lyapunov functional method. (Russian. English and Ukrainian summaries) **2005f:92031**

Massad, Eduardo *see* **Amaku, Marcos et al., (2005d:92001)**

McCluskey, C. Connell (*with* van den Driessche, P.) Global analysis of two tuberculosis models. (English summary) **2005f:92032**

McKenzie, F. Ellis (*with* Bossert, William H.) An integrated model of *Plasmodium falciparum* dynamics. (English summary)

Medley, Graham F. *see* **Gomes, M. Gabriela M. et al.**

Meester, Ronald *see* **Trapman, Pieter et al., 2005g:92040**

Meyers, Lauren Ancel (*with* Pourbohloul, Babak; Newman, Mark E. J.; Skowronski, Danuta M.; Brunham, Robert C.) Network theory and SARS: predicting outbreak diversity. (English summary)

Michor, Franziska *see* **Iwasa, Yoh et al.**

Moghadas, S. M. Modelling the effect of imperfect vaccines on disease epidemiology. (English summary) **2005c:92042**

Molina-Becerra, Mónica *see* **Delgado Delgado, Manuel et al., 2005i:92028**

Moreno, Yamir *see* **Hwang, Dong-Uk et al.**

Morgan, Jeffrey J. *see* **Fitzgibbon, William E. et al., 2005c:92037** *and* **2005d:92022**

Murray, John M. (*with* Perelson, Alan S.) Human immunodeficiency virus: quasi-species and drug resistance. (English summary)

Myburgh, C. (*with* Wong, Kar Hung) Computational control of an HIV model. (English summary)

Naresh, Ram (*with* Omar, Sandip; Tripathi, Agraj) Modelling and analysis of HIV/AIDS in a variable size population. (English summary)

Neal, Peter Compound Poisson limits for household epidemics. (English summary) **2005m:92059**

Nelson, Patrick W. (*with* Gilchrist, Michael A.; Coombs, Daniel; Hyman, James M.; Perelson, Alan S.) An age-structured model of HIV infection that allows for variations in the production rate of viral particles and the death rate of productively infected cells. (English summary) **2005k:92066**

Newman, Mark E. J. *see* **Meyers, Lauren Ancel et al.**

Ngwa, G. A. Modelling the dynamics of endemic malaria in growing populations. (English summary) **2005d:92023**

Norman, Rachel Ann (*with* Ross, David; Laurenson, M. Karen; Hudson, Peter J.) The role of non-viraemic transmission on the persistence and dynamics of a tick borne virus—Louping ill in red grouse (*Lagopus lagopus scoticus*) and mountain hares (*Lepus timidus*). (English summary) **2005e:92039**

Nowak, Martin A. *see* **Iwasa, Yoh et al.**

Nunes, Ana Maria *see* **Verdasca, J. et al.**

Nuño, M. (*with* Feng, Zhi Lan; Martcheva, Maia; Castillo-Chavez, Carlos) Dynamics of two-strain influenza with isolation and partial cross-immunity. (English summary) **2005k:92067**

O'Keefe, Kara J. The evolution of virulence in pathogens with frequency-dependent transmission. (English summary)

Omar, Sandip *see* **Naresh, Ram et al.**

d'Onofrio, Alberto Pulse vaccination strategy in the SIR epidemic model in presence of vaccine failures. (English summary) (*see* **2005d:92001**)

— On pulse vaccination strategy in the SIR epidemic model with vertical transmission. (English summary) **2005m:92060**

Pacheco, Jorge M. *see* **Verdasca, J. et al.**

Pan, Jie[2] *see* **Huang, Yu Mei et al.**

Patel, Rajan (*with* Longini, Ira M., Jr.; Halloran, M. Elizabeth) Finding optimal vaccination strategies for pandemic influenza using genetic algorithms. (English summary)

Perelman, M. I. (*with* Marchuk, Gurii I.; Borisov, S. E.; Kazennykh, B. Ya.; Avilov, K. K.; Karkach, A. S.; Romanyukha, A. A.) Tuberculosis epidemiology in Russia: the mathematical model and data analysis. (English summary)

Perelson, Alan S. *see* **Di Mascio, Michele et al., 2005b:92053; Nelson, Patrick W. et al., 2005k:92066; Gilchrist, Michael A. et al.; Murray, John M.** *and* **Wu, Joseph T. et al.**

Petermann, Thomas (*with* De Los Rios, Paolo) Cluster approximations for epidemic processes: a systematic description of correlations beyond the pair level. (English summary)

Pinter, Gabriella A. *see* **Fuhrman, K. M. et al.**

Pokhariyal, G. P. (*with* Simwa, R. O.) A model of HIV infection and its application. (English summary) **2005f:92033**

Pontier, D. *see* **Fitzgibbon, William E. et al., 2005d:92022**

Porco, Travis C. (*with* Lloyd-Smith, James O.; Gross, Kimber L.; Galvani, Alison P.) The effect of treatment on pathogen virulence. (English summary)

Pourbohloul, Babak *see* **Meyers, Lauren Ancel et al.**

Powell, James A. (*with* Slapničar, Ivan; van der Werf, Wopke) Epidemic spread of a lesion-forming plant pathogen—analysis of a mechanistic model with infinite age structure. (English summary) **2005i:92030**

Pugliese, Andrea (*with* Rosà, Roberto; Ghosh, Mini) A mathematical model for tick-borne infections: a numerical study. (English summary) (*see* **2005d:92001**)

— (*with* Tonetto, Lorenza) Thresholds for macroparasite infections. (English summary) **2005e:92040**

Qian, Guoqi (*with* Huggins, Richard M.; Loesch, Danuta Z.) Application of the Rasch model in categorical pedigree analysis using MCEM. I. Binary data. (English summary)

Qiu, Zhi Peng[1] (*with* Wang, Kai Fa; Yuan, Zhong Jun) Asymptotic behavior of an SI epidemic model with stage-structure and nonlinear contact rate. (Chinese. English and Chinese summaries)
Raimundo, Silvia Martorano (*with* Yang, Hyun Mo) The effects of drug treatment, birth rate and reproductive age on the vertical transmission of HIV. (English summary) (*see* **2005d:92001**)
Ramani, A. (*with* Cârstea, A. S.; Willox, Ralph; Grammaticos, B.) Oscillating epidemics: a discrete-time model. (English summary) **2005g:92039**
— *see also* **Tamizhmani, K. M. et al., 2005e:92041**
Rass, Linda Pandemic bounds for an epidemic on an infinite lattice. (English summary) **2005m:92061**
Recker, Mario (*with* Gupta, Sunetra) A model for pathogen population structure with cross-protection depending on the extent of overlap in antigenic variant repertoires. (English summary)
Reluga, Timothy C. A two-phase epidemic driven by diffusion. (English summary)
Ribeiro, Ruy M. *see* **Di Mascio, Michele et al., 2005b:92053**
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Sander, Leonard M. *see* **Ghoshal, G. et al., 2005b:92054**
Sannikova, T. E. (*with* Rudnev, S. G.; Romanyukha, A. A.; Yashin, Anatoli I.) Immune system aging may be affected by HIV infection: the mathematical model of immunosenescence. (English summary)
Saramäki, Jari (*with* Kaski, Kimmo) Modelling development of epidemics with dynamic small-world networks. (English summary)
Sasaki, Toru[1] The effect of local prevention in an SIS model with diffusion. (English summary) **2005b:92058**
Saskov, Kirill *see* **Kiryukhin, Ilia et al., (2005c:00014)**
Schinazi, Rinaldo B. On the role of reinfection in the transmission of infectious diseases. (English summary)
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Seube, N. *see* **Crück, Eva et al., 2005b:92052**
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Simwa, R. O. *see* **Pokhariyal, G. P., 2005f:92033**
Singer, Benjamin H. (*with* Kirschner, Denise E.) Influence of backward bifurcation on interpretation of R_0 in a model of epidemic tuberculosis with reinfection. (English summary)
Sinha, Prawal *see* **Ghosh, Mini et al., 2005a:92056** *and* **2005h:92030**
Skowronski, Danuta M. *see* **Meyers, Lauren Ancel et al.**
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Sokhna, Cheikh *see* **Bacaër, Nicolas, 2005m:92050**
Sokolov, Igor M. *see* **Ghoshal, G. et al., 2005b:92054**
Song, Baojun[1] *see* **Berezovskaya, F. S. et al., 2005m:92051**
Srinivasa Rao, Arni S. R. (*with* Kakehashi, Masayuki) Incubation-time distribution in back-calculation applied to HIV/AIDS data in India. (English summary)
Suárez Fernández, Antonio *see* **Delgado Delgado, Manuel et al., 2005i:92028**
Sun, Li Hua *see* **Gao, Shujing et al., 2005m:92053** *and* **Zeng, Guang Zhao et al., 2005m:92062**
Tamizhmani, K. M. (*with* Ramani, A.; Grammaticos, B.; Cârstea, A. S.) Modelling AIDS epidemic and treatment with difference equations. **2005e:92041**
Telo da Gama, M. M. *see* **Verdasca, J. et al.**
Telschow, Arndt *see* **Engelstädter, Jan et al.**
Tonetto, Lorenza *see* **Pugliese, Andrea, 2005e:92040**
Trapman, Pieter (*with* Meester, Ronald; Heesterbeek, Hans) A branching model for the spread of infectious animal diseases in varying environments. (English summary) **2005g:92040**
Tripathi, Agraj *see* **Naresh, Ram et al.**
Vannucchi, F. S. (*with* Boccaletti, S.) Chaotic spreading of epidemics in complex networks of excitable units. (English summary)
Verdasca, J. (*with* Telo da Gama, M. M.; Nunes, Ana Maria; Bernardino, N. R.; Pacheco, Jorge M.; Gomes, Manuel C.) Recurrent epidemics in small world networks. (English summary)
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Wang, Feng (*with* Zhang, Juan[3]; Ma, Zhi En) Global stability of a TB model with constant recruitment rate. (Chinese. English and Chinese summaries)
Wang, Hao *see* **Zheng, Li Li et al.**
Wang, Kai Fa *see* **Qiu, Zhi Peng**[1] **et al.**
Wang, Kai Ming *see* **Hu, Xin Li et al.**
Wang, La Di Analysis of an SIRS epidemic model with a nonlinear incidence rate. (Chinese. English and Chinese summaries)
Wang, Shi Fei (*with* Li, Xue Zhi) Threshold and stability results for an MSIS epidemic model with acute and chronic stages. (Chinese. English and Chinese summaries)
Wang, Wen-di Population dispersal and disease spread. (English summary) **2005b:92059**
— (*with* Zhao, Xiao-Qiang) An epidemic model in a patchy environment. (English summary) **2005b:92060**
— *see also* **Jin, Yu**[1], **2005m:92055** *and* **Li, Xiu Ying**[2], **2005m:92058**
Watts, D. J. *see* **Dodds, P. S.**
Webb, Glenn F. (*with* Blaser, Martin J.; Zhu, Huaiping; Ardal, Sten; Wu, Jian Hong) Critical role of nosocomial transmission in the Toronto SARS outbreak. (English summary) **2005k:92068**
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Wolf, Cédric *see* **Fitzgibbon, William E. et al., 2005d:92022**
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Wu, Dane W. The relative attributable risk for stratification of n factors: some applications of conditional probability. (English summary) **2005d:92024**
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Wu, Jinshan *see* **Liu, Jingzhou et al.**
Wu, Joseph T. (*with* Wein, Lawrence M.; Perelson, Alan S.) Optimization of influenza vaccine selection. (English summary)
Xiao, Yan Ni (*with* Bowers, Roger G.; Clancy, Damian; French, Nigel P.) Understanding the dynamics of *Salmonella* infections in dairy herds: a modelling approach. (English summary)
Xu, Hou Bao *see* **Xu, Wen Bing et al.**
Xu, Jie[2] (*with* Zhou, Yi Cang) Hepatitis epidemic models with proportional and pulse vaccination. (Chinese. English and Chinese summaries)
Xu, Wen Bing (*with* Xu, Hou Bao; Yu, Jing Yuan; Zhu, Guang Tian) Existence, uniqueness and stability of the solution for an age-structured SARS epidemic model. (Chinese. English and Chinese summaries)
Xu, Wen Xiong (*with* Zhang, Zhong Hua) Study on dynamic behavior of an SIR epidemiological model with nonlinear saturated contact rate under vaccination. (Chinese. English and Chinese summaries)
— *see also* **Zhang, Zhong Hua**
Yang, Guang[1] (*with* Zhang, Qing Ling) Threshold analysis of epidemic models which are controlled. (Chinese. English and Chinese summaries)
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Yang, Xiao Yong (*with* Fu, Sheng Mao) Qualitative analysis of an anorexia model with mutual interference. (Chinese. English and Chinese summaries)
Yang, Zhan Ru *see* **Liu, Jingzhou et al.**
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— *see also* **Jin, Zhen et al., 2005b:92056** *and* **Han, Li Tao et al.**
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Zeeman, Mary Lou *see* **van den Driessche, P., 2005j:92027**
Zeng, Guang Zhao (*with* Chen, Lan Sun; Sun, Li Hua) Complexity of an SIR epidemic dynamics model with impulsive vaccination control. (English summary) **2005m:92062**
Zhang, Juan[3] (*with* Li, Jian Quan[1]; Ma, Zhi En) Global analysis of SIR epidemic models with population size dependent contact rate. (English and Chinese summaries) **2005b:92061**
— *see also* **Li, Jian Quan**[1] **et al., 2005a:92058** *and* **Wang, Feng et al.**
Zhang, Qing Ling *see* **Yang, Guang**[1]
Zhang, Zhong Hua (*with* Xu, Wen Xiong) Asymptotic analysis of a kind of SEIS mathematical model for spread of epidemics. (Chinese. English and Chinese summaries)
— *see also* **Xu, Wen Xiong**
Zhao, Xiao-Qiang *see* **Wang, Wen-di, 2005b:92060**
Zhdanov, Vladimir P. Propagation of infection and the prey-predator interplay.
Zheng, Li Li (*with* Wang, Hao; Fang, Qin Hua) Analysis of stability for a SI epidemic model with nonlinear infection incidence and stage-structure. (Chinese. English and Chinese summaries)
Zhou, Yi *see* **Lou, Jie et al.**
Zhou, Yi Cang (*with* Fergola, Paolo) Dynamics of a discrete age-structured SIS models. (English summary) **2005b:92062**
— (*with* Ma, Zhi En; Brauer, Fred) A discrete epidemic model for SARS transmission and control in China. (English summary) **2005i:92031**
— *see also* **Xu, Jie**[2]
Zhu, Guang Tian *see* **Xu, Wen Bing et al.**
Zhu, Huaiping *see* **Webb, Glenn F. et al., 2005k:92068**
Zuev, S. M. (*with* Gessler, Damian) Modelling of disease progression and epidemics. (English summary)

Items with secondary classifications in 92D30

Abolnikov, Lev (*with* Dukhovny, Alexander) Optimization in HIV screening problems. (English summary) **2005a:60145**
Ackleh, Azmy S. (*with* Allen, Linda J. S.) Competitive exclusion in SIS and SIR epidemic models with total cross immunity and density-dependent host mortality. (English summary) **2005k:34182**
Ahmed, Elsayed Mohamed (*with* Hegazi, A. S.; Elgazzar, A. S.) On persistence and stability of some biological systems with cross diffusion. (English summary)
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Al-Showaikh, F. N. M. (*with* Twizell, E. H.) One-dimensional measles dynamics. (English summary) **2005b:35117**
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Andriopoulos, K. *see* **Leach, P. G. L., 2005e:34109**
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Aniţa, Sebastian[2] *see* **Aniţa, Laura-Iulia, 2005j:93059**
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Ball, Frank G. (*with* Neal, Peter) Poisson approximations for epidemics with two levels of mixing. (English summary) **2005a:60032**
— (*with* Britton, Tom; Lyne, Owen D.) Stochastic multitype epidemics in a community of households: estimation of threshold parameter R_* and secure vaccination coverage. (English summary)
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Barfield, Michael *see* **Orive, Maria E. et al.**

Bauch, Chris T. (*with* Earn, David J. D.) Vaccination and the theory of games. (English summary) **2005f:91028**

Becker, Niels G. (*with* Britton, Tom) Estimating vaccine efficacy from small outbreaks. (English summary)

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Bouloux Marquet, Catherine Continuous host-macroparasite models with application to aquaculture. (English summary) **2005h:35188**

Brauer, Fred The analysis of some characteristic equations arising in population and epidemic models. (English summary) **2005i:45006**

Britton, Tom *see* **Ball, Frank G. et al.** *and* **Becker, Niels G.**

Burton, T. A. Fixed points and differential equations with asymptotically constant or periodic solutions. (English summary) **2005e:34210**

Chao, Anne (*with* Yang, Hsin-Chou; Yip, Paul S. F.) The use of capture-recapture methodology in epidemiological surveillance. (*see* **2005c:62003**)

Chen, Lan Sun *see* **Song, Xin Yu et al., 2005m:34183**

Chen, Xiao Ying (*with* Zhu, Wan Zhen) Qualitative analysis of an autonomous SIS model of predator-prey system with the Holling type II functional response. (Chinese. English and Chinese summaries)

Cheng, Fang *see* **Xu, Wen Xiong et al.**

Deijfen, Maria (*with* Häggström, Olle; Bagley, J.) A stochastic model for competing growth on $\mathbf{R}^d$. (English summary) **2005g:60161**

Dorman, Karin S. (*with* Sinsheimer, Janet S.; Lange, Kenneth) In the garden of branching processes. (English summary)

Du, Yi Well-posedness of the solution to an infectious disease model with nonlifelong immunity. (Chinese. English and Chinese summaries)

Dukhovny, Alexander *see* **Abolnikov, Lev, 2005a:60145**

Earn, David J. D. *see* **Bauch, Chris T., 2005f:91028**

Elaiw, A. M. Receding horizon control method applied to antiviral treatment of AIDS. (English summary) **2005d:93110**

Elgazzar, A. S. *see* **Ahmed, Elsayed Mohamed et al.**

Fitzgibbon, William E. (*with* Langlais, Michel; Morgan, Jeffrey J.) A reaction-diffusion system on noncoincident spatial domains modeling the circulation of a disease between two host populations. (English summary) **2005d:35127**

Francis, Peter J. Optimal tax-subsidy combinations for the flu season. (English summary) **2005b:91164**

Gan, Wen Zhen *see* **Zhou, Hua[1] et al.**

Gani, Joseph M. Two types of infectives among homogeneous IVDU susceptibles. (English summary) (*see* **2005m:62007**)

Gourley, Stephen A. (*with* Kuang, Yang) A delay reaction-diffusion model of the spread of bacteriophage infection. (English summary) **2005i:35143**

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Gupta, Ramesh C. (*with* Wang, Bingxia) Estimation of standardized mortality ratio with missing death certificates. (English summary)

Gustafson, Paul ★ Measurement error and misclassification in statistics and epidemiology. **2005b:62146**

Häggström, Olle *see* **Deijfen, Maria et al., 2005g:60161**

Hao, Hai *see* **Zhang, Shuang De et al.**

He, Ze Rong (*with* Wang, Mian Sen; Luo, Zhi Xue) Positive solutions of an integral equation describing an age-structured epidemic model. (Chinese. English and Chinese summaries) **2005c:45010**

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Huang, Shuxiang (*with* Xu, Shiming; Xie, Chun Hong) Theoretical analysis to a reaction-diffusion system arising in a diffusive epidemic model. (English summary) **2005a:35160**

Hyman, James M. *see* **Li, Jia[2] et al., 2005h:34141**

Ibáñez, B. *see* **Ugarte, M. Dolores et al.**

Ireland, J. M. (*with* Norman, Rachel Ann; Greenman, J. V.) The effect of seasonal host birth rates on population dynamics: the importance of resonance. (English summary)

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Jin, Zhen *see* **Li, Gui Hua[4], 2005h:34140**

Kelly, John K. *see* **Orive, Maria E. et al.**

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Langlais, Michel *see* **Fitzgibbon, William E. et al., 2005d:35127** *and* **Aliziane, Tarik, 2005i:35115**

Leach, P. G. L. (*with* Andriopoulos, K.) Application of symmetry and symmetry analyses to systems of first-order equations arising from mathematical modelling in epidemiology. (English summary) **2005e:34109**

Li, Gui Hua[4] (*with* Jin, Zhen) Global stability of an SEI epidemic model with general contact rate. (English summary) **2005h:34140**

Li, Jia[2] Simple mathematical models for interacting wild and transgenic mosquito populations. (English summary) **2005a:92046**

— (*with* Zhou, Yi Cang; Ma, Zhi En; Hyman, James M.) Epidemiological models for mutating pathogens. (English summary) **2005h:34141**

Li, Jian Quan[1] (*with* Ma, Zhi En) Stability analysis for SIS epidemic models with vaccination and constant population size. (English summary) **2005c:34103**

— *see also* **Wang, La Di, 2005h:34143**

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Lyne, Owen D. *see* **Ball, Frank G. et al.**

Ma, Wanbiao (*with* Song, Mei; Takeuchi, Yasuhiro) Global stability of an SIR epidemic model with time delay. (English summary)

Ma, Zhi En *see* **Li, Jian Quan[1], 2005c:34103** *and* **Li, Jia[2] et al., 2005h:34141**

Manfredi, Piero (*with* Williams, John Robert) Realistic population dynamics in epidemiological models: the impact of population decline on the dynamics of childhood infectious diseases: Measles in Italy as an example. (English summary)

Mei, Ming (*with* So, Joseph W.-H.; Li, Michael Y.; Shen, Samuel S. P.) Asymptotic stability of travelling waves for Nicholson's blowflies equation with diffusion. (English summary) **2005e:35130**

Mickens, Ronald E. Construction of a discrete-time model for periodic diseases with integer-valued populations. (English summary) **2005k:39022**

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Misra, Pratik (*with* Quinn, Terrance J.; Rai, Sanjay) A four dimensional functional differential equation for the dynamics of CD4+ T-cells and HIV-1. (English summary)

Morgan, Jeffrey J. *see* **Fitzgibbon, William E. et al., 2005d:35127**

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Neal, Peter *see* **Ball, Frank G., 2005a:60032**

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Oharu, Shinnosuke (*with* Tebbs, Duncan) A time-dependent product formula and its application to an HIV infection model. (English summary) **2005k:34225**

Orive, Maria E. (*with* Stearns, Miles N.; Kelly, John K.; Barfield, Michael; Smith, Marilyn S.; Holt, Robert D.) Viral infection in internally structured hosts. I. Conditions for persistent infection. (English summary)

Pugliese, Andrea (*with* Tonetto, Lorenza) Well-posedness of an infinite system of partial differential equations modelling parasitic infection in an age-structured host. (English summary) **2005c:35038**

Quinn, Terrance J. *see* **Misra, Pratik et al.**

Rai, Sanjay *see* **Misra, Pratik et al.**

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Song, Xin Yu (*with* Xiao, Yan Ni; Chen, Lan Sun) Stability and Hopf bifurcation of an eco-epidemiological model with delays. (Chinese. English and Chinese summaries) **2005m:34183**

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Ugarte, M. Dolores (*with* Ibáñez, B.; Militino, A. F.) Testing for Poisson zero inflation in disease mapping. (English summary)

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Wang, La Di (*with* Li, Jian Quan[1]) Global stability of an epidemic model with nonlinear incidence rate and differential infectivity. (English summary) **2005h:34143**

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Wolf, Cédric A mathematical model for the propagation of a hantavirus in structured populations. (English summary) **2005f:35194**

Wong, Patricia J. Y. (*with* Boey, K. L.) Nontrivial periodic solutions in the modelling of infectious disease. (English summary) **2005d:45012**

Wu, Hulin (*with* Zhao, Shoujun) Statistical models and methods in infectious diseases. (*see* **2005c:62003**)

Xia, Xiao Dong (*with* Tian, Hui Ying) Qualitative analysis of a plane system. (Chinese. English and Chinese summaries) **2005e:34087**

Xia, Xiaohua Estimation of HIV/AIDS parameters. (English summary)

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Xu, Wen Xiong (*with* Zhang, Zhong Hua; Cheng, Fang) Globally asymptotic stability of a kind of SIS mathematical model for the spread of epidemic. (Chinese. English and Chinese summaries)

Yang, Can Rong *see* **Zhang, Shuang De et al.**

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Zhang, Shuang De (*with* Hao, Hai; Yang, Can Rong) Stability for an autonomous epidemic model with stage-structure and life-immunity. (Chinese. English and Chinese summaries)

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— *see also* **Xu, Dashun, 2005k:35232**

Zhou, Hua[1] (*with* Gan, Wen Zhen; Lin, Zhi Gui) An epidemic model with time delay and diffusion. (Chinese. English and Chinese summaries)

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Brown, James H. (*with* Bedrick, Edward J.; Ernest, S. K. Morgan; Cartron, Jean-Luc E.; Kelly, Jeffrey F.) Constraints on negative relationships: mathematical causes and ecological consequences. (English summary) (*see* **2005d:62007**)
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Lewis, David M. Planktonic encounter rates in homogeneous isotropic turbulence: the case of predators with limited fields of sensory perception. (English summary) **2005a:92064**
Lewis, Roland W. (*with* Pao, William K. S.; Yang, Xin-She) Instability and reaction-diffusion transport of bacteria. (English summary) **2005d:92025**
Li, Bi Wen (*with* Zhang, Zheng Qiu; Wang, Zhi Cheng[1]) Periodic solutions of a ecological model of microbes. (Chinese. English and Chinese summaries)
— (*with* Chen, Jing Hua; Cheng, Jian) The existence of periodic solution for a competitive ecosystem with stage-structure and cannibalism. (Chinese. English and Chinese summaries)
Li, Chun-fa (*with* Feng, En Min) Existence of optimal solution and optimality condition for parameter identification of an ecological species system. (English summary)
Li, Dianmo (*with* Gao, Zengxiang; Ma, Zufei; Xie, Baoyu; Wang, Zhengjun) Two general models for the simulation of insect population dynamics. (English summary)
— *see also* **Ma, Zufei et al.**
Liao, Xiao Xin *see* **Liu, Shao Ping**[2], **2005g:92041**
(Link, William A.) *see* **Miller, Jean A.**, (**2005d:62007**)
Liu, Liu *see* **Bai, Lin et al.**
Liu, Shao Ping[2] (*with* Liao, Xiao Xin) Permanence of complicated ecosystems with impulse. (Chinese. English and Chinese summaries) **2005g:92041**
Liu, Zhi Gang *see* **Cui, Rui Gang**
Lobry, Claude La modélisation en écologie: du laboratoire à l'écosystème. [Ecological modelling: from the laboratory to the ecosystem]
Logan, J. David (*with* Joern, Anthony; Wolesensky, W.) Mathematical model of consumer homeostasis control in plant-herbivore dynamics. (English summary)
— *see also* **Ledder, Glenn et al.**, **2005c:92044**
Logofet, Dmitrii O. Stronger-than-Lyapunov notions of matrix stability, or how "flowers" help solve problems in mathematical ecology. (English summary) **2005i:92035**
Loos, Christine (*with* Seppelt, Ralf; Meier-Bethke, Sara; Schiemann, Joachim; Richter, Otto) Spatially explicit modelling of transgenic maize pollen dispersal and cross-pollination. (English summary)
Lopez, Francisco Gomez *see* **Fungairiño, S. G. et al.**
Luciani, Fabio *see* **Turchetti, Giorgio et al.**, (**2005d:92001**)
Ludovisi, Alessandro (*with* Pandolfi, Piera; Illuminata Taticchi, Maria) The strategy of ecosystem development: specific dissipation as an indicator of ecosystem maturity. (English summary)
Ma, Zufei (*with* Li, Dianmo; Xie, Baoyu) Quantifying the danger for *Parnassius nomion* on Beijing Dongling mountain. (English summary)
— *see also* **Li, Dianmo et al.**
Mariani, Luca *see* **Turchetti, Giorgio et al.**, (**2005d:92001**)
(McCulloch, Charles E.) *see* **Miller, Jean A.**, (**2005d:62007**)

McKenzie, F. Ellis *see* **Feng, Zhi Lan et al., 2005a:92062**
McNamara, John M. *see* **Skubic, Eva et al.**
Medvedev, G. N. *see* **Tikhonov, Andreĭ Nikolaevich et al.**
Meier-Bethke, Sara *see* **Loos, Christine et al.**
Miller, Christian R. (*with* Kuang, Yang; Fagan, William F.; Elser, James J.) Modeling and analysis of stoichiometric two-patch consumer-resource systems. (English summary) **2005a:92065**
— *see also* **Errata: "Modeling and analysis of stoichiometric two-patch consumer-resource systems"**
Miller, Jean A. (*with* Frost, Thomas M.) Whole-ecosystem experiments: replication and arguing from error. (English summary) (*see* **2005d:62007**)
Myshetskaya, E. E. *see* **Kuleshov, Andrei A., 2005k:92071**
Niwa, Hiro-Sato Space-irrelevant scaling law for fish school sizes. (English summary)
Ohta, Shigemi *see* **Cheon, Taksu, 2005k:92069**
(Orzack, Steven Hecht) *see* **Taper, Mark L., (2005d:62007)**
Ouyang, Cheng (*with* Han, Xiang Lin) Asymptotic solution for the nonlinear singularly perturbed systems of multispecies ecological competition-predator. (English and Chinese summaries) **2005k:92073**
Pandolfi, Piera *see* **Ludovisi, Alessandro et al.**
Pao, William K. S. *see* **Lewis, Roland W. et al., 2005d:92025**
Pavoine, Sandrine (*with* Dufour, Anne-Béatrice; Chessel, Daniel) From dissimilarities among species to dissimilarities among communities: a double principal coordinate analysis. (English summary)
Pham Thi, N. N. (*with* Huisman, Jef; Sommeijer, Ben P.) Simulation of three-dimensional phytoplankton dynamics: competition in light-limited environments. (English summary)
— On positive solutions in a phytoplankton-nutrient model. (English summary) **2005i:92036**
Powers, S. J. (*with* Brain, Phil; Barlow, P. W.) First-order differential equation models with estimable parameters as functions of environmental variables and their application to a study of vascular development in young hybrid aspen stems. (English summary) **2005b:92065**
Qi, Guozheng *see* **Wang, Jihuai et al.**
Raja Sekhara Rao, P. *see* **Sree Hari Rao, V.**
Refinetti, Roberto Non-stationary time series and the robustness of circadian rhythms. (English summary)
Richter, Otto *see* **Loos, Christine et al.**
Rionero, Salvatore *see* **Buonomo, Bruno, (2005d:92001)**
Roose, T. (*with* Fowler, A. C.) A model for water uptake by plant roots. (English summary)
— (*with* Fowler, A. C.) A mathematical model for water and nutrient uptake by plant root systems. (English summary)
Rothman, Daniel H. *see* **Weitz, Joshua S.**
Ruxton, Graeme D. *see* **Broom, Mark, (2005d:92001)**
Schiemann, Joachim *see* **Loos, Christine et al.**
Schlicht, Robert (*with* Iwasa, Yoh) Forest gap dynamics and the Ising model. (English summary)
Schulte, Rogier P. O. (*with* Lantinga, Egbert A.; Hawkins, Michael J.) A new family of Fisher-curves estimates Fisher's alpha more accurately. (English summary)
Seppelt, Ralf *see* **Loos, Christine et al.**
Seri, Raffaello (*with* Choirat, Christine) Stochastic boundedness in biological models. (English summary) (*see* **2005d:92001**)
Serrano, José Manuel *see* **Fungairiño, S. G. et al.**
Shahverdiev, Elman M. *see* **Dilão, Rui et al., 2005a:92061**
Simoy, María Verónica (*with* Canziani, Graciela Ana) A stage-structured model with two time-steps for analyzing the population dynamics of *Rhea americana* under variable environmental conditions. (English summary)
Singh, Brajendra K. (*with* Chattopadhyay, Joydev; Sinha, Somdatta) The role of virus infection in a simple phytoplankton zooplankton system. (English summary)
Singh, Harbax *see* **Dhar, Joydip, 2005k:92070**
Sinha, Somdatta *see* **Singh, Brajendra K. et al.**
Skubic, Eva (*with* Taborsky, Michael; McNamara, John M.; Houston, Alasdair I.) When to parasitize? A dynamic optimization model of reproductive strategies in a cooperative breeder. (English summary)
(Slade, Norman A.) *see* **Brown, James H. et al., (2005d:62007)**
Smith, David L. *see* **Feng, Zhi Lan et al., 2005a:92062**
Sommeijer, Ben P. *see* **Pham Thi, N. N. et al.**
Spagnolo, B. (*with* Valenti, D.; Fiasconaro, A.) Noise in ecosystems: a short review. (English summary) **2005k:92074**
Sree Hari Rao, V. (*with* Raja Sekhara Rao, P.) Mathematical models of the microbial populations and issues concerning stability. (English summary)
Stone, Lewi *see* **Cazelles, Bernard et al., (2005d:92001)**
Strizhov, V. V. ★ Согласование экспертных оценок для биосистем в экстремальных условиях. (Russian. Russian summary) [Agreement of expert estimates for biosystems under extremal conditions]
Sun, Li Hua *see* **Gao, Shujing et al.**
Taborsky, Michael *see* **Skubic, Eva et al.**
Tahvonen, Olli Optimal harvesting of forest age classes: a survey of some recent results. (English summary)
Tang, Sanyi (*with* Cheke, Robert A.) State-dependent impulsive models of integrated pest management (IPM) strategies and their dynamic consequences. (English summary) **2005k:92075**
Taper, Mark L. (*with* Lele, Subhash R.) Dynamical models as paths to evidence in ecology. (English summary) (*see* **2005d:62007**)
Tebaldi, Claudio[1] *see* **Lacitignola, Deborah, 2005k:92072**
Tikhonov, Andreĭ Nikolaevich (*with* Trubetskov, M. K.; Medvedev, G. N.) Mathematical problems that arise in the creation of an "ecological policeman". (Russian. Russian summary)
Trubetskov, M. K. *see* **Tikhonov, Andreĭ Nikolaevich et al.**
Turchetti, Giorgio (*with* Luciani, Fabio; Mariani, Luca) Environmental randomness and survival probability. (English summary) (*see* **2005d:92001**)
Valenti, D. *see* **Spagnolo, B. et al., 2005k:92074**
Wang, Jihuai (*with* Hansen, Preben Klarskov; Christensen, Svend; Qi, Guozheng) The mathematical method of studying the reproduction structure of weeds and its application to *Bromus sterilis*. (English summary)
Wang, Xin Hua *see* **Bai, Lin et al.**
Wang, Zhengjun *see* **Li, Dianmo et al.**
Wang, Zhi Cheng[1] *see* **Li, Bi Wen et al.**
Weitz, Joshua S. (*with* Rothman, Daniel H.) Scale-dependence of resource-biodiversity relationships. (English summary)
Wolesensky, W. *see* **Logan, J. David et al.**
Xie, Baoyu *see* **Li, Dianmo et al.** *and* **Ma, Zufei et al.**
Yang, Xin-She *see* **Lewis, Roland W. et al., 2005d:92025**
Zavalishin, N. N. Dynamic regimes of the functioning of the carbon cycle in a transitional bog ecosystem. (Russian. English and Russian summaries) **2005k:92076**
Zhang, Zheng Qiu *see* **Li, Bi Wen et al.**

Items listed otherwise than by author

Errata:
"Modeling and analysis of stoichiometric two-patch consumer-resource systems" Erratum to: "Modeling and analysis of stoichiometric two-patch consumer-resource systems" [Math. Biosci. **189** (2004), no. 2, 153–184, MR2065415 (2005a:92065)] by C. R. Miller, Y. Kuang, W. F. Fagan and J. J. Elser.

Items with secondary classifications in 92D40

Ackleh, Azmy S. (*with* Deng, Keng; Wang, Xubo) Competitive exclusion and coexistence for a quasilinear size-structured population model. (English summary) **2005i:92015**
Adioui, M. (*with* Arino, Ovide; El Saadi, N.) A nonlocal model of phytoplankton aggregation. (English summary)
Akagi, Tasuku *see* **Seto, Mayumi**
Álvarez Pinilla, Antonio *see* **Orea, Luis et al.**
Amacher, Gregory S. (*with* Koskela, Erkki; Ollikainen, Markku) Forest rotations and stand interdependency: ownership structure and timing of decisions. (English summary) **2005b:91057**
Andreozzi, Luciano The history of theoretical population ecology: which role for mathematical modeling? (*see* **2005a:00015**)
Angeli, David *see* **De Leenheer, Patrick et al., 2005m:34087**
Arino, Ovide *see* **Adioui, M. et al.**
Azizi, Yousef *see* **Sprott, J. C. et al., 2005m:37214**
Bai, Ling (*with* Wang, Ke[1]) Logistic model with spatial nonhomogeneous diffusion and its optimal harvest policy. (Chinese. English and Chinese summaries)
Baurmann, Martin (*with* Ebenhöh, Wolfgang; Feudel, Ulrike) Turing instabilities and pattern formation in a benthic nutrient-microorganism system. (English summary)
Bause, Markus (*with* Knabner, Peter) Numerical simulation of contaminant biodegradation by higher order methods and adaptive time stepping. (English summary) **2005f:76063**
Benton, T. G. *see* **Greenman, J. V., 2005i:37106**
Bianconi, Simona *see* **Fujita Yashima, Hisao, 2005h:45010**
Bithell, Mike *see* **Richards, Keith et al., 2005b:74126**
Borsi, I. (*with* Farina, Angiolo; Fasano, Antonio) On the infiltration of rain water through the soil with runoff of the excess water. (English summary) **2005k:35234**
Cantrell, Robert Stephen (*with* Cosner, Chris; Lou, Yuan) Multiple reversals of competitive dominance in ecological reserves via external habitat degradation. (English summary) **2005k:35211**
Cao, Jin De *see* **Xia, Yong Hui et al., 2005f:34122** *and* **2005m:34169**
Chaudhuri, K. S. *see* **Kar, Tapan Kumar[2], 2005g:92032**
Chen, An Ping[2] *see* **Xia, Yong Hui et al., 2005f:34122**
Chen, Di-lan (*with* Sun, Ji-tao) Impulsive control of a fishery system. (English summary) **2005c:34012**
Chen, Feng De *see* **Xia, Yong Hui et al., 2005f:34122** *and* **Zhang, Hui Ying**
Chen, Lan Sun *see* **Tang, Sanyi, 2005a:92052; 2005c:34015** *and* **Duan, Lixia et al., 2005h:92022**
Chen, Ning[1] Interacting shock wave problems for ecological systems. (Chinese. English and Chinese summaries)
Choi, Yung Sze (*with* Lui, Roger; Yamada, Yoshio) Existence of global solutions for the Shigesada-Kawasaki-Teramoto model with strongly coupled cross-diffusion. (English summary) **2005e:35099**
Chowdhury, Debashish *see* **Stauffer, Dietrich, 2005b:91190**
Cosner, Chris *see* **Cantrell, Robert Stephen et al., 2005k:35211**
Cury, Philippe *see* **Mullon, Christian et al., 2005a:34015**
Dautray, Robert (*with* Díaz Díaz, Jesús Ildefonso) Agir pour conserver l'environnement? Réflexions générales et analyse mathématique de deux problèmes concrets. [Acting to preserve the environment? General reflections and mathematical analysis of two concrete problems] (*see* **2005h:00013**)
De Feo, Oscar *see* **Storace, Marco, 2005a:37083**
De Leenheer, Patrick (*with* Li, Bingtuan; Smith, Hal L.) Competition in the chemostat: some remarks. **2005k:92050**
— (*with* Angeli, David; Sontag, Eduardo D.) On predator-prey systems and small-gain theorems. (English summary) **2005m:34087**
Delgado Delgado, Manuel (*with* Molina-Becerra, Mónica; Suárez Fernández, Antonio) The sub-supersolution method for an evolutionary reaction-diffusion age-dependent problem. (English summary) **2005g:35170**
Deng, Keng *see* **Ackleh, Azmy S. et al., 2005i:92015**
Dennis, Brian Statistics and the scientific method in ecology. (English summary) (*see* **2005d:62007**)
Díaz Díaz, Jesús Ildefonso *see* **Dautray, Robert, (2005h:00013)**
Di Battista, Tonio *see* **Gattone, Stefano Antonio, (2005f:62007)**
Diekmann, Odo A beginner's guide to adaptive dynamics. (English summary) **2005c:92020**
Dou, Xiang-Hua *see* **Wang, Ji-Hua et al.**
Dove, Martin *see* **Richards, Keith et al., 2005b:74126**

Duan, Lixia (*with* Lu, Qishao; Yang, Zaizhong; Chen, Lan Sun) Effects of diffusion on a stage-structured population in a polluted environment. (English summary) **2005h:92022**
Dubey, Balram Models for the effect of high speed wind on the depletion of fertile topsoil. (English summary) **2005j:86004**
Earn, David J. D. *see* **Wu, Ying et al.**
Ebenhöh, Wolfgang *see* **Baurmann, Martin et al.**
Elaydi, Saber N. Nonautonomous difference equations: open problems and conjectures. **2005d:39063**
(Ellison, Aaron M.) *see* **Dennis, Brian**, **(2005d:62007)**
El Saadi, N. *see* **Adioui, M. et al.**
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Farina, Angiolo *see* **Borsi, I. et al.**, **2005k:35234**
Fasano, Antonio (*with* Giorni, Danilo) On a one-dimensional problem related to bioremediation of polluted soils. (English summary) **2005h:35190**
— *see also* **Borsi, I. et al.**, **2005k:35234**
Feng, Zhi Lan (*with* Swihart, Robert; Yi, Yingfei; Zhu, Huaiping) Coexistence in a metapopulation model with explicit local dynamics. (English summary) **2005k:92053**
Fergola, Paolo *see* **Jiang, Li Qiang et al.**, **2005k:34292**
Feudel, Ulrike *see* **Baurmann, Martin et al.**
Flatt, Thomas (*with* Scheuring, István) Stabilizing factors interact in promoting host-parasite coexistence. (English summary)
Fujita Yashima, Hisao (*with* Bianconi, Simona) Integrodifferential model of an ecological system and its stability: the case of *Pinus cembra* and *Nucifraga caryocatactes*. (Italian. English and Italian summaries) **2005h:45010**
Gattone, Stefano Antonio (*with* Di Battista, Tonio) The multivariate adaptive sampling for estimating the diversity in biological populations. (English summary) (*see* **2005f:62007**)
Ghouali, Noureddine (*with* Touaoula, Tarik Mohamed) A linear model for the dynamics of fish larvae. (English summary) **2005h:35038**
Giorni, Danilo *see* **Fasano, Antonio**, **2005h:35190**
Greenman, J. V. (*with* Benton, T. G.) Large amplification in stage-structured models: Arnol′d tongues revisited. (English summary) **2005i:37106**
Grigorkīv, V. S. (*with* Yakutova, O. Yu.; Timku, S. M.) A model of optimal ecological-economic dynamics. (Ukrainian. English summary) **2005h:91181**
Gumel, A. B. (*with* Moghadas, S. M.; Mickens, Ronald E.) Effect of a preventive vaccine on the dynamics of HIV transmission. (English summary) **2005f:34135**
Guo, Zongming (*with* Yang, Huisheng) Structure of positive solutions for quasilinear elliptic systems—degenerate ecological models. (English summary) **2005e:35068**
Gupta, Shakti (*with* Pilyugin, Sergei S.; Narang, Atul) The dynamics of single-substrate continuous cultures: the role of ribosomes. (English summary)
Gyllenberg, Mats (*with* Wang, Yi) Periodic tridiagonal systems modeling competitive-cooperative ecological interactions. (English summary) **2005k:34163**
Hadeler, Karl P. (*with* Lewis, Mark A.) Spatial dynamics of the diffusive logistic equation with a sedentary compartment. (English summary) **2005b:35149**
Harada, Yasushi *see* **Sakai, Satoki**
He, Daihai *see* **Wu, Ying et al.**
Hilker, F. M. *see* **Malchow, H. et al.**
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Huo, Hai Feng (*with* Li, Wan Tong) Permanence and global stability for nonautonomous discrete model of plankton allelopathy. (English summary) **2005g:39019**
Iwunor, Charles C. O. A comparative study of some growth models for sterile male technique. (English summary) **2005b:92043**
Jiang, Li Qiang (*with* Ma, Zhi En; Fergola, Paolo) The global stability of a competing chemostat model with delayed nutrient recycling. (English summary) **2005k:34292**
Kar, Tapan Kumar[2] (*with* Chaudhuri, K. S.) On selective harvesting of two competing fish species in the presence of environmental fluctuation. (English summary) **2005g:92032**
— Conservation of a fishery through optimal taxation: a dynamic reaction model. (English summary) **2005g:91152**
Kieken, Hubert RAINS: modéliser les pollutions atmosphériques pour la négociation internationale. (English and French summaries) [RAINS: a model of atmospheric pollution for international negotiations]
Klochkova, I. N. A generalization of a theorem on reproductive potential for Logofet matrices. (Russian. Russian summary)
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Koskela, Erkki *see* **Amacher, Gregory S. et al.**, **2005b:91057**
Kuang, Yang (*with* Huisman, Jef; Elser, James J.) Stoichiometric plant-herbivore models and their interpretation. (English summary) **2005k:92056**
Kurihara, Koji (*with* Ono, Yoshiro) Relationships between polycyclic aromatic hydrocarbons and environmental factors. (Japanese. English and Japanese summaries)
Lele, Subhash R. Elicit data, not prior: on using expert opinion in ecological studies. (English summary) (*see* **2005d:62007**)
Leung, PingSun *see* **Yu, Run**
Lewis, David M. A simple model of plankton population dynamics coupled with a LES of the surface mixed layer. (English summary)
Lewis, Mark A. *see* **Hadeler, Karl P.**, **2005b:35149**
Li, Bingtuan *see* **De Leenheer, Patrick et al.**, **2005k:92050**
Li, Dianmo (*with* Zhang, Zhen; Ma, Zufei; Xie, Baoyu; Wang, Ruí) Allee effect and a catastrophe model of population dynamics. (English summary)
— *see also* **Ma, Zufei et al.**
Li, Qingdu *see* **Yang, Xiao Song**, **2005b:37213**
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Lindroos, Marko Restricted coalitions in the management of regional fisheries organizations. (English summary) **2005b:91031**
Liu, Zhi Jun[2] Positive periodic solution of a neutral delay multispecies ecological competitive system. (Chinese. English and Chinese summaries) **2005m:92042**
Lobry, Claude (*with* Mazenc, Frédéric; Rapaport, Alain) Persistence in ecological models of competition for a single resource. (English and French summaries) **2005k:34196**
López-Gómez, Julián Malthus, Verhulst, and the metasolutions. (English summary) **2005k:35203**
— (*with* Molina-Meyer, Marcela) Singular perturbations in economy and ecology. The effect of strategic symbiosis in random competitive environments. (English summary) **2005d:35081**
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Ma, Zhi En *see* **Jiang, Li Qiang et al.**, **2005k:34292**
Ma, Zufei (*with* Li, Dianmo; Xie, Baoyu) Is there a sigmoid growth of Gause's *Paramecium caudatum* in constant environment. (English summary)
— *see also* **Li, Dianmo et al.**
Maiti, Alakes *see* **Samanta, G. P.**, **2005d:92020**
Malchow, H. (*with* Hilker, F. M.; Petrovskii, S. V.) Noise and productivity dependence of spatiotemporal pattern formation in a prey-predator system. (English summary)
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Orea, Luis (*with* Álvarez Pinilla, Antonio; Morrison Paul, Catherine J.) Modeling and measuring production processes for a multi-species fishery: alternative technical efficiency estimates for the Northern Spain hake fishery. (English summary)
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Petrovskii, S. V. *see* **Malchow, H. et al.**
Pilyugin, Sergei S. (*with* Reeves, Gregory T.; Narang, Atul) Predicting stability of mixed microbial cultures from single species experiments. I. Phenomenological model. (English summary) **2005j:92024**
— (*with* Reeves, Gregory T.; Narang, Atul) Predicting stability of mixed microbial cultures from single species experiments. II. Physiological model. (English summary) **2005j:92025**
— *see also* **Gupta, Shakti et al.**
Rapaport, Alain *see* **Lobry, Claude et al.**, **2005k:34196**
Reeves, Gregory T. *see* **Pilyugin, Sergei S. et al.**, **2005j:92024** *and* **2005j:92025**
Richards, Keith (*with* Bithell, Mike; Dove, Martin; Hodge, Rebecca) Discrete-element modelling: methods and applications in the environmental sciences. (English summary) **2005b:74126**
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Semple, Charles (*with* Steel, Michael Anthony) ★ Phylogenetics. **2005g:92024**
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Skakauskas, Vladas Large time behavior in a density-dependent population dynamics problem with age structure and child care. (English summary) **2005c:92030**
Smith, Hal L. *see* **De Leenheer, Patrick et al.**, **2005k:92050**
Smith, Robert J. (*with* Wolkowicz, Gail S. K.) Analysis of a model of the nutrient driven self-cycling fermentation process. (English summary) **2005a:92050**
Sontag, Eduardo D. *see* **De Leenheer, Patrick et al.**, **2005m:34087**
Sprott, J. C. (*with* Wildenberg, J. C.; Azizi, Yousef) A simple spatiotemporal chaotic Lotka-Volterra model. (English summary) **2005m:37214**
Stauffer, Dietrich (*with* Chowdhury, Debashish) Unified "micro"- and "macro"-evolution of eco-systems: self-organization of a dynamic network. (English summary) **2005b:91190**
Steel, Michael Anthony *see* **Semple, Charles**, **2005g:92024**
Storace, Marco (*with* De Feo, Oscar) Piecewise-linear approximation of nonlinear dynamical systems. (English summary) **2005a:37083**
Suárez Fernández, Antonio *see* **Delgado Delgado, Manuel et al.**, **2005g:35170**
Sun, Ji-tao *see* **Chen, Di-lan**, **2005c:34012**
Swihart, Robert *see* **Feng, Zhi Lan et al.**, **2005k:92053**
Tang, Sanyi (*with* Chen, Lan Sun) Modelling and analysis of integrated pest management strategy. (English summary) **2005c:34015**
— (*with* Chen, Lan Sun) The effect of seasonal harvesting on stage-structured population models. (English summary) **2005a:92052**
Tannenbaum, Emmanuel (*with* Shakhnovich, Eugene I.) Solution of the quasispecies model for an arbitrary gene network. (English summary) **2005j:92018**
Thomas, Diana M. (*with* Vandemuelebroeke, Lynn; Yamaguchi, Kenneth) A mathematical evolution model for phytoremediation of metals. (English summary) **2005m:86005**

Timku, S. M. *see* **Grigorkīv, V. S. et al., 2005h:91181**
Touaoula, Tarik Mohamed *see* **Ghouali, Noureddine, 2005h:35038**
Troost, Tineke A. (*with* Kooi, Bob W.; Kooijman, Sebastiaan A. L. M.) When do mixotrophs specialize? Adaptive dynamics theory applied to a dynamic energy budget model. (English summary)
(Tuckfield, R. Cary) *see* **Lele, Subhash R., (2005d:62007)**
Turulski, Jan (*with* Niedzielski, Jan) Earth's biodiversity as interpreted by a chemist. (English summary) **2005d:80011**
Vandemuelebroecke, Lynn *see* **Thomas, Diana M. et al., 2005m:86005**
Vives, Sergi (*with* Salicrú, Miquel) Accuracy in the estimation of quantitative minimal area from the diversity/area curve. (English summary)
(Waller, Lance A.) *see* **Lele, Subhash R., (2005d:62007)**
Wang, Bai Yan *see* **Xiang, Hong et al., 2005d:34092**
Wang, Bao-quan *see* **Wang, Ji-Hua et al.**
Wang, Ding Wei Colony location algorithm for assignment problems. (English summary) **2005h:90064**
Wang, Ji-Hua (*with* Wang, Bao-quan; Zhang, Lian-shun; Dou, Xiang-Hua; Zhao, Li-Ling) Theoretical study on the Z curves. (English and Chinese summaries)
Wang, Ke[1] *see* **Bai, Ling**
Wang, Mian Sen *see* **Luo, Zhi Xue et al., 2005b:91182**
Wang, Rui *see* **Li, Dianmo et al.**
Wang, Xubo *see* **Ackleh, Azmy S. et al., 2005i:92015**
Wang, Yi *see* **Gyllenberg, Mats, 2005k:34163**
Wang, Zhi Cheng[1] *see* **Zhang, Zheng Qiu et al., 2005b:34094**
Wildenberg, J. C. *see* **Sprott, J. C. et al., 2005m:37214**
Wolkowicz, Gail S. K. *see* **Smith, Robert J., 2005a:92050**
Wu, Jun[5] *see* **Zhang, Zheng Qiu et al., 2005b:34094**
Wu, Ying (*with* Xu, Jian-Xue; He, Daihai; Earn, David J. D.) Generalized synchronization induced by noise and parameter mismatching in Hindmarsh-Rose neurons. (English summary)
Xia, Yong Hui (*with* Chen, Feng De; Chen, An Ping[2]; Cao, Jin De) Existence and global attractivity of an almost periodic ecological model. (English summary) **2005f:34122**
— (*with* Cao, Jin De) Almost periodicity in an ecological model with M-predators and N-preys by "pure-delay type" system. (English summary) **2005m:34169**
Xiang, Hong (*with* Wang, Bai Yan; Yan, Ke-Ming) Periodic solution of a nonautonomous semi-ratio-dependent predator-prey model with the Beddington-DeAngelis functional response. (English summary) **2005d:34092**
Xie, Baoyu *see* **Li, Dianmo et al.** *and* **Ma, Zufei et al.**
Xu, Jian-Xue *see* **Wu, Ying et al.**
Yakutova, O. Yu. *see* **Grigorkīv, V. S. et al., 2005h:91181**
Yamada, Yoshio *see* **Choi, Yung Sze et al., 2005e:35099**
Yamaguchi, Kenneth *see* **Thomas, Diana M. et al., 2005m:86005**
Yamamoto, Takashi[1] (*with* Sekiguchi, Motochika; Ono, Yoshiro) Distribution of polycyclic aromatic hydrocarbon concentration in roadside *Azalea* leaves. (Japanese. English and Japanese summaries)
Yan, Ke-Ming *see* **Xiang, Hong et al., 2005d:34092**
Yang, Huisheng *see* **Guo, Zongming, 2005e:35068**
Yang, Xiao Song (*with* Li, Qingdu) Existence of horseshoe in a foodweb model. (English summary) **2005b:37213**
Yang, Zaizhong *see* **Duan, Lixia et al., 2005h:92022**
Yi, Yingfei *see* **Feng, Zhi Lan et al., 2005k:92053**
Yokomori, Takashi Molecular computing paradigm—toward freedom from Turing's charm. (English summary) **2005a:68068**
Yu, Run (*with* Leung, PingSun) Optimal harvesting strategies for a multi-cycle and multi-pond shrimp operation: A practical network model. (English summary)
Zhang, Hui Ying (*with* Chen, Feng De) Positive periodic solutions for a three-species food chain system with Beddington-DeAngelis functional response. (Chinese. English and Chinese summaries)
Zhang, Lian-shun *see* **Wang, Ji-Hua et al.**
Zhang, Zhen *see* **Li, Dianmo et al.**
Zhang, Zheng Qiu (*with* Wu, Jun[5]; Wang, Zhi Cheng[1]) Periodic solutions of nonautonomous stage-structured cooperative system. (English summary) **2005b:34094**
Zhao, Li-Ling *see* **Wang, Ji-Hua et al.**
Zhu, Huaiping *see* **Feng, Zhi Lan et al., 2005k:92053**
Zia, R. K. P. (*with* Rikvold, Per Arne) Fluctuations and correlations in an individual-based model of biological coevolution. (English summary) **2005a:92034**

92D50 Animal behavior

Amaral, Luís A. N. *see* **Moreira, André A. et al.**
Belinsky, Rachel (*with* González, Fernando; Stahl, Jeanne) Optimal behavior and concurrent variable interval schedules. (English summary) **2005b:92066**
Bengtsson, Göran (*with* Nilsson, Elna; Rydén, Tobias; Wiktorsson, Magnus) Irregular walks and loops combines in small-scale movement of a soil insect: implications for dispersal biology. (English summary)
— *see also* **Wiktorsson, Magnus et al.**
Benhamou, Simon Bicoordinate navigation based on non-orthogonal gradient fields. (English summary)
Bertozzi, Andrea L. *see* **Topaz, Chad M., 2005h:92031**
Biro, Dora *see* **Guilford, Tim et al.** *and* **Roberts, Stephen J. et al.**
Boivin, Diane B. (*with* James, Francine O.) Photic resetting of the human circadian clock: applications to jet lag and shift work. (English summary)
Broom, Mark (*with* Ruxton, Graeme D.) A framework for modelling and analysing conspecific brood parasitism. (English summary) **2005c:92045**
Brown, Sam P. *see* **Poitrineau, Karine et al.**
Bullock, Seth *see* **Ladley, Dan**
Chen, M. Keith (*with* Hauser, Marc) Modeling reciprocation and cooperation in primates: evidence for a punishing strategy. (English summary)
Chowdhury, Debashish *see* **John, Alexander et al.**
Codling, E. A. (*with* Hill, N. A.) Sampling rate effects on measurements of correlated and biased random walks. (English summary)
Dereksdóttir, Eva Hlín *see* **Magnússon, Kjartan G. et al.**
Diermeier, Daniel *see* **Moreira, André A. et al.**
Dillery, Scott *see* **Pearson, G. A. et al.**
González, Fernando *see* **Belinsky, Rachel et al., 2005b:92066**
Guilford, Tim (*with* Roberts, Stephen J.; Biro, Dora; Rezek, Iead) Positional entropy during pigeon homing. II. Navigational interpretation of Bayesian latent state models. (English summary)
— *see also* **Roberts, Stephen J. et al.**
Halupka, Konrad *see* **Hutchinson, John M. C.** *and* **Errata: "Mate choice when males are in patches: optimal strategies and good rules of thumb"**
Hauser, Marc *see* **Chen, M. Keith**
Hill, N. A. *see* **Codling, E. A.**
Hochberg, Michael E. *see* **Poitrineau, Karine et al.**
Houston, Alasdair I. *see* **McNamara, John M.**
Houston, David C. *see* **Ruxton, Graeme D.**
Hutchings, Mike R. *see* **Marion, Glenn et al.**
Hutchinson, John M. C. (*with* Halupka, Konrad) Mate choice when males are in patches: optimal strategies and good rules of thumb. (English summary)
— *see also* **Errata: "Mate choice when males are in patches: optimal strategies and good rules of thumb"**
Iwasa, Yoh *see* **Ohtsuki, Hisashi**
James, Francine O. *see* **Boivin, Diane B.**
John, Alexander (*with* Schadschneider, Andreas; Chowdhury, Debashish; Nishinari, Katsuhiro) Collective effects in traffic on bi-directional ant trails. (English summary)
Ladley, Dan (*with* Bullock, Seth) The role of logistic constraints in termite construction of chambers and tunnels. (English summary)
Lebar Bajec, Iztok (*with* Zimic, Nikolaj; Mraz, Miha) Simulating flocks on the wing: the fuzzy approach. (English summary)
Levin, Simon A. *see* **Nakamaru, Mayuko**
Magnússon, Kjartan G. (*with* Sigurdsson, Sven Th.; Dereksdóttir, Eva Hlín) A simulation model for capelin migrations in the North Atlantic. (English summary)
Marion, Glenn (*with* Swain, David L.; Hutchings, Mike R.) Understanding foraging behaviour in spatially heterogeneous environments. (English summary)
Mathur, Abhishek *see* **Moreira, André A. et al.**
McNamara, John M. (*with* Houston, Alasdair I.) If animals know their own fighting ability, the evolutionarily stable level of fighting is reduced. (English summary)
Meyer, John R. *see* **Pearson, G. A. et al.**
Moreira, André A. (*with* Mathur, Abhishek; Diermeier, Daniel; Amaral, Luís A. N.) Efficient system-wide coordination in noisy environments. (English summary)
Motro, Uzi *see* **Yaniv, Osnat**
Mraz, Miha *see* **Lebar Bajec, Iztok et al.**
Nakamaru, Mayuko (*with* Levin, Simon A.) Spread of two linked social norms on complex interaction networks. (English summary)
Nilsson, Elna *see* **Bengtsson, Göran et al.** *and* **Wiktorsson, Magnus et al.**
Nishinari, Katsuhiro *see* **John, Alexander et al.**
Ohtsuki, Hisashi (*with* Iwasa, Yoh) How should we define goodness?—reputation dynamics in indirect reciprocity. (English summary)
— (*with* Iwasa, Yoh) Erratum to: "How should we define goodness?—reputation dynamics in indirect reciprocity" [J. Theoret. Biol. **231** (2004), no. 1, 107–120; MR2107553].
Pearson, G. A. (*with* Dillery, Scott; Meyer, John R.) Modeling intra-sexual competition in a sex pheromone system: how much can female movement affect female mating success? (English summary)
Poitrineau, Karine (*with* Brown, Sam P.; Hochberg, Michael E.) The joint evolution of defence and inducibility against natural enemies. (English summary)
Ramaswamy, Sriram[2] *see* **Toner, John et al., 2005m:92065**
Reluga, Timothy C. (*with* Viscido, Steven) Simulated evolution of selfish herd behavior. (English summary)
Rezek, Iead *see* **Guilford, Tim et al.** *and* **Roberts, Stephen J. et al.**
Roberts, Stephen J. (*with* Guilford, Tim; Rezek, Iead; Biro, Dora) Positional entropy during pigeon homing. I. Application of Bayesian latent state modelling. (English summary)
— *see also* **Guilford, Tim et al.**
Ruxton, Graeme D. (*with* Houston, David C.) Obligate vertebrate scavengers must be large soaring fliers. (English summary)
— *see also* **Broom, Mark, 2005c:92045**
Rydén, Tobias *see* **Bengtsson, Göran et al.** *and* **Wiktorsson, Magnus et al.**
Schadschneider, Andreas *see* **John, Alexander et al.**
Sigurdsson, Sven Th. *see* **Magnússon, Kjartan G. et al.**
Stahl, Jeanne *see* **Belinsky, Rachel et al., 2005b:92066**
Swain, David L. *see* **Marion, Glenn et al.**
Toner, John (*with* Tu, Yuhai; Ramaswamy, Sriram[2]) Hydrodynamics and phases of flocks. (English summary) **2005m:92065**
Topaz, Chad M. (*with* Bertozzi, Andrea L.) Swarming patterns in a two-dimensional kinematic model for biological groups. (English summary) **2005h:92031**
Tu, Yuhai *see* **Toner, John et al., 2005m:92065**
Viscido, Steven *see* **Reluga, Timothy C.**
Wiktorsson, Magnus (*with* Rydén, Tobias; Nilsson, Elna; Bengtsson, Göran) Modelling the movement of a soil insect. (English summary)
— *see also* **Bengtsson, Göran et al.**
Yaniv, Osnat (*with* Motro, Uzi) Time-dependent animal conflicts. I. The symmetric case. (English summary)
— (*with* Motro, Uzi) Time-dependent animal conflicts. II. The asymmetric case. (English summary)
Zimic, Nikolaj *see* **Lebar Bajec, Iztok et al.**

Items listed otherwise than by author

Errata:
"Mate choice when males are in patches: optimal strategies and good rules of thumb"

Errata: (*cont'd.*)
Erratum to: "Mate choice when males are in patches: optimal strategies and good rules of thumb" [J. Theoret. Biol. **231** (2004), no. 1, 129–151; MR2107554] by J. M. C. Hutchinson and K. Halupka.

Items with secondary classifications in 92D50

Babak, Petro *see* **Magnússon, Kjartan G. et al., 2005b:92045**
Brandt, Hannelore (*with* Sigmund, Karl) The logic of reprobation: assessment and action rules for indirect reciprocation. (English summary)
Brännäs, Eva *see* **Brännäs, Kurt**
Brännäs, Kurt (*with* Brännäs, Eva) Conditional heteroskedasticity in count data regression: self-feeding activity in fish. (English summary)
Capasso, Vincenzo *see* **Morale, Daniela et al., 2005i:92022**
Castillo-Chavez, Carlos *see* **Del Valle, S. et al., 2005m:92052**
Costa, Andre Ants, stochastic optimisation and reinforcement learning. (English summary) **2005m:90071**
Del Valle, S. (*with* Hethcote, H.; Hyman, James M.; Castillo-Chavez, Carlos) Effects of behavioral changes in a smallpox attack model. (English summary) **2005m:92052**
Dereksdóttir, Eva Hlín *see* **Magnússon, Kjartan G. et al., 2005b:92045**
Doebeli, Michael *see* **Ifti, Margarita et al.**
Gazi, Veysel (*with* Passino, Kevin M.) A class of attractions/repulsion functions for stable swarm aggregations. (English summary) **2005g:93078**
Grünbaum, Daniel (*with* Viscido, Steven; Parrish, Julia K.) Extracting interactive control algorithms from group dynamics of schooling fish. (English summary) (*see* **2005g:93004**)
Gudmundsson, Stefán F. *see* **Magnússon, Kjartan G. et al., 2005b:92045**
Hethcote, H. *see* **Del Valle, S. et al., 2005m:92052**
Hristu-Varsakelis, D. (*with* Shao, Cheng[2]) Biologically-inspired optimal control: learning from social insects. (English summary) **2005h:49097**
— (*with* Shao, Cheng[2]) Corrections to: "Biologically-inspired optimal control: learning from social insects" [Internat. J. Control **77** (2004), no. 18, 1549–1566; MR2110215 (2005h:49097)].
Hyman, James M. *see* **Del Valle, S. et al., 2005m:92052**
Ifti, Margarita (*with* Killingback, Timothy; Doebeli, Michael) Effects of neighbourhood size and connectivity on the spatial continuous prisoner's dilemma. (English summary)
(Isoda, Yutaka) *see* **Errata: "Evolution of cannibalism: referring to costs of cannibalism"**
Jones, Laura E. *see* **Yakubu, Abdul-Aziz et al.**
Kaart, Tanel About the data designs for estimation of genetic parameters in animal breeding studies. (English summary)
Killingback, Timothy *see* **Ifti, Margarita et al.**
Magnússon, Kjartan G. (*with* Sigurdsson, Sven Th.; Babak, Petro; Gudmundsson, Stefán F.; Dereksdóttir, Eva Hlín) A continuous density Kolmogorov type model for a migrating fish stock. (English summary) **2005b:92045**
Morale, Daniela (*with* Capasso, Vincenzo; Oelschläger, Karl) An interacting particle system modelling aggregation behavior: from individuals to populations. (English summary) **2005i:92022**
(Nishimura, Kinya) *see* **Errata: "Evolution of cannibalism: referring to costs of cannibalism"**
Oelschläger, Karl *see* **Morale, Daniela et al., 2005i:92022**
Ollason, J. G. (*with* Ren, N.) A general dynamical theory of foraging in animals. (English summary)
Parrish, Julia K. *see* **Grünbaum, Daniel et al.,** (**2005g:93004**)
Passino, Kevin M. *see* **Gazi, Veysel, 2005g:93078**
Ren, N. *see* **Ollason, J. G.**
Sáenz, Roberto *see* **Yakubu, Abdul-Aziz et al.**
Shao, Cheng[2] *see* **Hristu-Varsakelis, D., 2005h:49097**
Sigmund, Karl *see* **Brandt, Hannelore**
Sigurdsson, Sven Th. *see* **Magnússon, Kjartan G. et al., 2005b:92045**
Stein, Julie *see* **Yakubu, Abdul-Aziz et al.**
Viscido, Steven *see* **Grünbaum, Daniel et al.,** (**2005g:93004**)
Yakubu, Abdul-Aziz (*with* Sáenz, Roberto; Stein, Julie; Jones, Laura E.) Monarch butterfly spatially discrete advection model. (English summary)

Items listed otherwise than by author

Errata:
"Evolution of cannibalism: referring to costs of cannibalism" Erratum to: "Evolution of cannibalism: referring to costs of cannibalism" [J. Theoret. Biol. **226** (2004), no. 3, 293–302; MR2068820] by K. Nishimura and Y. Isoda.

92D99 None of the above, but in this section

Items with secondary classifications in 92D99

Wirl, Franz International greenhouse gas emissions when global warming is a stochastic process. (English summary) **2005h:91033**

92Exx Chemistry {For biochemistry, see 92C40.}

Desiraju, Gautam R. Chemistry—the middle kingdom. (English summary)
Mukherjee, Debashis Role of mathematics in chemistry.

92E10 Molecular structure (graph-theoretic methods, methods of differential topology, etc.)

Antyufeev, V. S. (*with* Nikolaev, S. V.) Simulation of proteasomal protein degradation by the Monte Carlo method. (English summary)
Aragon, Sergio The algebraic structure of physical quantities. (English summary) **2005d:92026**
Ashrafi, Ali Reza *see* **Darafsheh, M. R. et al., 2005m:92069**
Balaban, Alexandru T. (*with* Randić, Milan) Partitioning of π-electrons in rings of polycyclic conjugated hydrocarbons. VI. Comparison with other methods for estimating the local aromaticity of rings in polycyclic benzenoids. (English summary)
Ban, Yih-En Andrew (*with* Bereg, Sergei; Mustafa, Nabil H.) On a conjecture on Wiener indices in combinatorial chemistry. (English summary) (*see* **2005a:05002**)
Belanzoni, Paola (*with* Rosi, Marzio; Sgamellotti, Antonio) Density functional investigations on the C-C bond formation and cleavage in molecular batteries. (English summary) (*see* **2005c:00015**)
Bereg, Sergei *see* **Ban, Yih-En Andrew et al.,** (**2005a:05002**)
Berinde, Mădălina *see* **Berinde, Zoiţa**
Berinde, Zoiţa (*with* Berinde, Mădălina) On a matrix representation of molecular structures. (English summary)
Bocchi, Timothy (*with* Lewinter, Marty; Karimi, Sasan) On the distribution of π bonds in cyclofusene. (English summary) **2005d:92027**
Bryant, Robert L. (*with* Edelsbrunner, Herbert; Koehl, Patrice; Levitt, Michael) The area derivative of a space-filling diagram. (English summary) **2005k:92077**
Bucknum, Michael J. (*with* Castro, Eduardo A.) Calculating topological indices of networks from the corresponding Wells point symbol. (English summary) **2005m:92067**
— (*with* Castro, Eduardo A.) Introduction to molecular Schläfli indices. (English summary) **2005m:92066**
Burnley, B. Tom (*with* Cox, Jonathan P. L.) Dynamic polyhedral models of globular proteins. (English summary)
Buttimore, Nigel H. *see* **Kosiol, Carolin et al.**
Casasnovas, Jaume (*with* Rosselló-Llompart, Francesc) Averaging fuzzy biopolymers. (English summary)
Castro, Eduardo A. *see* **Bucknum, Michael J., 2005m:92066** *and* **2005m:92067**
Chandru, Vijaya (*with* Rao, M. Rammohan; Swaminathan, Ganesh) Protein folding on lattices: an integer programming approach. (English summary) (*see* **2005b:90009**)
Chern, I-Liang (*with* Liu, Jian-Guo[1]; Wang, Wei-Cheng) Accurate evaluation of electrostatics for macromolecules in solution. (English summary)
Ciger, Simona *see* **Dinca, Marcela F. et al.**
Cox, Jonathan P. L. *see* **Burnley, B. Tom**
Dabirian, M. (*with* Iranmanesh, Ali) The full non-rigid group theory for trimethylamine-BH_3 complex. (English summary) **2005m:92068**
Darafsheh, M. R. (*with* Farjami, Yaghoub; Ashrafi, Ali Reza) Computing the full non-rigid group of tetranitrocubane and octanitrocubane using wreath product. (English summary) **2005m:92069**
Das, Amit Kumar *see* **Misra, J. C. et al.**
Demaine, Erik D. (*with* Langerman, Stefan; O'Rourke, Joseph) Geometric restrictions on producible polygonal protein chains. (English summary) (*see* **2005c:68004**)
Dinca, Marcela F. (*with* Ciger, Simona; Stefu, Monica; Gherman, F.; Miklos, Katalin; Nagy, Csaba L.; Ursu, Oleg; Diudea, Mircea V.) Stability prediction in C_{40} fullerenes. (English summary)
Diudea, Mircea V. (*with* Janežič, Dušanska; Graovac, Ante) Topology counting in nanostructures. (English summary)
— *see also* **Dinca, Marcela F. et al.**
Dong, Ruixin (*with* Yan, Xunling; Liu, Shenggang) The salt dependence of the stretching transition of double-stranded DNA molecules. (English summary) **2005a:92066**
Edelsbrunner, Herbert *see* **Bryant, Robert L. et al., 2005k:92077**
Emiris, Ioannis Z. (*with* Nikitopoulos, Theodoros G.) Molecular conformation search by distance matrix perturbations. (English summary) **2005m:92070**
Farjami, Yaghoub *see* **Darafsheh, M. R. et al., 2005m:92069**
Fowler, Patrick W. *see* **Sciriha, Irene**
Fritzsche, S. *see* **Rykhlinskaya, K.**
Fujita, Shinsaku Stereogenicity/astereogenicity as global/local permutation-group symmetry and relevant concepts for restructuring stereochemistry. (English summary) **2005f:92035**
Gherman, F. *see* **Dinca, Marcela F. et al.**
Goldman, Nick *see* **Kosiol, Carolin et al.**
Graovac, Ante *see* **Diudea, Mircea V. et al.**
Guttmann, Anthony J. *see* **Richard, Christoph, 2005a:92068**
(Honda, Hisao) *see* **Errata: "A three-dimensional vertex dynamics cell model of space-filling polyhedra simulating cell behavior in a cell aggregate"**
Hoos, Holger H. *see* **Shmygelska, Alena,** (**2005f:68004**)
Huang, Qin Bo *see* **Huang, Wen Qi[1] et al.**
Huang, Wen Qi[1] (*with* Lü, Zhipeng) Personification algorithm for protein folding problem: improvements in PERM. (English summary)
— (*with* Huang, Qin Bo; Shi, He) A quasiphysical algorithm for 3D protein structure prediction. (Chinese. English and Chinese summaries)
Iranmanesh, Ali *see* **Dabirian, M., 2005m:92068**
Janežič, Dušanska *see* **Diudea, Mircea V. et al.**
Karimi, Sasan *see* **Bocchi, Timothy et al., 2005d:92027**
Klein, Douglas J. *see* **Vukičević, Damir, 2005k:92078**
Koehl, Patrice *see* **Bryant, Robert L. et al., 2005k:92077**
Kosiol, Carolin (*with* Goldman, Nick; Buttimore, Nigel H.) A new criterion and method for amino acid classification. (English summary)
Kurihara, Koji (*with* Ono, Yoshiro) Relationships between polycyclic aromatic hydrocarbons and environmental factors. (Japanese. English and Japanese summaries)
Langerman, Stefan *see* **Demaine, Erik D. et al.,** (**2005c:68004**)
Levitt, Michael *see* **Bryant, Robert L. et al., 2005k:92077**
Lewinter, Marty *see* **Bocchi, Timothy et al., 2005d:92027**
Li, Xue-liang (*with* Wang, Lu Sheng) Solutions for two conjectures on the inverse problem of the Wiener index of peptoids. (English summary) **2005a:92067**
Liu, Jian-Guo[1] *see* **Chern, I-Liang et al.**
Liu, Shenggang *see* **Dong, Ruixin et al., 2005a:92066**
Lloyd, Peter *see* **Shakiban, Chehrzad,** (**2005b:00027**)
Lü, Zhipeng *see* **Huang, Wen Qi[1]**
Malyshev, V. A. Fixed points for stochastic open chemical systems. (English summary)
Miklos, Katalin *see* **Dinca, Marcela F. et al.**
Misra, J. C. (*with* Mukherjee, S.; Das, Amit Kumar) A mathematical model for enzymatic action on DNA knots and links. (English summary)
Mo, Zhong Xi *see* **Shi, Feng[1] et al.**
Mukherjee, S. *see* **Misra, J. C. et al.**

Mustafa, Nabil H. *see* **Ban, Yih-En Andrew et al.**, (2005a:05002)
(Nagai, Tatsuzo) *see* **Errata: "A three-dimensional vertex dynamics cell model of space-filling polyhedra simulating cell behavior in a cell aggregate"**
Nagy, Csaba L. *see* **Dinca, Marcela F. et al.**
Nikitopoulos, Theodoros G. *see* **Emiris, Ioannis Z.**, 2005m:92070
Nikolaev, S. V. *see* **Antyufeev, V. S.**
Ono, Yoshiro *see* **Yamamoto, Takashi[1] et al.** *and* **Kurihara, Koji**
O'Rourke, Joseph *see* **Demaine, Erik D. et al.**, (2005c:68004)
Paetz, Jürgen (*with* Schneider, Gisbert) A neuro-fuzzy approach to virtual screening in molecular bioinformatics. (English summary)
Qin, Hong Shan (*with* Sun, Feng Lan; Wang, Ke Qi; Yang, Xin Qi) Study on the dynamic parameters of space-folding patterns of the non-homologous protein. (Chinese. English and Chinese summaries)
Randić, Milan *see* **Balaban, Alexandru T.**
Rao, M. Rammohan *see* **Chandru, Vijaya et al.**, (2005b:90009)
Richard, Christoph (*with* Guttmann, Anthony J.) Poland-Scheraga models and the DNA denaturation transition. (English summary) **2005a:92068**
Rosi, Marzio *see* **Belanzoni, Paola et al.**, (2005c:00015)
Rosselló-Llompart, Francesc *see* **Casasnovas, Jaume**
Rykhlinskaya, K. (*with* Fritzsche, S.) Use of group theory for the analysis of vibrational spectra. (English summary)
Salem, Khaled Sextet and cell polynomials of hexagonal systems. (English summary)
Schneider, Gisbert *see* **Paetz, Jürgen**
Sciriha, Irene (*with* Fowler, Patrick W.) A spectral view of fullerenes. (English summary)
Sekiguchi, Motochika *see* **Yamamoto, Takashi[1] et al.**
Sgamellotti, Antonio *see* **Belanzoni, Paola et al.**, (2005c:00015)
Shakiban, Chehrzad (*with* Lloyd, Peter) Signature curves statistics of DNA supercoils. (English summary) (*see* **2005b:00027**)
Sheka, E. F. Violation of covalent bonding in fullerenes. (English summary) (*see* **2005c:00015**)
Shi, Feng[1] (*with* Mo, Zhong Xi; Zhang, Chu Yu) HMM (hidden Markov models)—a new method for predicting protein secondary structure. (Chinese. English and Chinese summaries)
Shi, He *see* **Huang, Wen Qi[1] et al.**
Shmygelska, Alena (*with* Hoos, Holger H.) An improved ant colony optimisation algorithm for the 2D HP protein folding problem. (English summary) (*see* **2005f:68004**)
Stefu, Monica *see* **Dinca, Marcela F. et al.**
Sun, Feng Lan *see* **Qin, Hong Shan et al.**
Swaminathan, Ganesh *see* **Chandru, Vijaya et al.**, (2005b:90009)
(Tanemura, Masaharu) *see* **Errata: "A three-dimensional vertex dynamics cell model of space-filling polyhedra simulating cell behavior in a cell aggregate"**
Twarock, R. A tiling approach to virus capsid assembly explaining a structural puzzle in virology. (English summary)
Ursu, Oleg *see* **Dinca, Marcela F. et al.**
Vukičević, Damir (*with* Klein, Douglas J.) Characterization of distribution of pi-electrons amongst benzenoid rings for Randić's "algebraic" Kekulé structures. (English summary) **2005k:92078**
Wang, Ke Qi *see* **Qin, Hong Shan et al.**
Wang, Lu Sheng *see* **Li, Xue-liang**, 2005a:92067 *and* **Zhang, Fu Ji**, 2005b:92067
Wang, Wei-Cheng *see* **Chern, I-Liang et al.**
Yamamoto, Takashi[1] (*with* Sekiguchi, Motochika; Ono, Yoshiro) Distribution of polycyclic aromatic hydrocarbon concentration in roadside *Azalea* leaves. (Japanese. English and Japanese summaries)
Yan, Xunling *see* **Dong, Ruixin et al.**, 2005a:92066
Yang, Xin Qi *see* **Qin, Hong Shan et al.**
Zhang, Chu Yu *see* **Shi, Feng[1] et al.**
Zhang, Fu Ji (*with* Wang, Lu Sheng) *k*-resonance of open-ended carbon nanotubes. (English summary) **2005b:92067**

Items listed otherwise than by author

Errata:
"A three-dimensional vertex dynamics cell model of space-filling polyhedra simulating cell behavior in a cell aggregate" Erratum to: "A three-dimensional vertex dynamics cell model of space-filling polyhedra simulating cell behavior in a cell aggregate" [J. Theoret. Biol. **226** (2004), no. 4, 439–453; MR2069626] by H. Honda, M. Tanemura and T. Nagai.

Items with secondary classifications in 92E10

Alberto, P. V. (*with* Nogueira, Fernando; Rocha, Humberto; Vicente, Luís N.) Pattern search methods for user-provided points: application to molecular geometry problems. (English summary) **2005k:90146**
Andonov, Rumen (*with* Balev, Stefan; Yanev, Nikolaĭ I.) Protein threading: from mathematical models to parallel implementations. (English summary) **2005g:92014**
de Angelis, Daniela *see* **Gilks, Walter R. et al.**
Arkın, Handan *see* **Bachmann, Michael et al.**, 2005k:82108
Atiyah, Michael (*with* Sutcliffe, Paul M.) Polyhedra in physics, chemistry and geometry. (English summary) **2005m:81347**
Audit, Benjamin *see* **Gilks, Walter R. et al.**
Bachmann, Michael (*with* Arkın, Handan; Janke, Wolfhard) Multicanonical study of coarse-grained off-lattice models for folding heteropolymers. (English summary) **2005k:82108**
— *see also* **Schiemann, Reinhard et al.**, 2005j:82084
Bader, Brett W. *see* **Eskow, Elizabeth et al.**
Balaban, Alexandru T. (*with* Bonchev, Danail) Complexity, sphericity, and ordering of regular and semiregular polyhedra. (English summary) **2005m:52016**
Balaeff, Alexander (*with* Koudella, Christophe R.; Mahadevan, L.; Schulten, Klaus) Modelling DNA loops using continuum and statistical mechanics. (English summary) **2005c:92019**
Balev, Stefan *see* **Andonov, Rumen et al.**, 2005g:92014
Ban, Yih-En Andrew (*with* Bereg, Sergei; Mustafa, Nabil H.) A conjecture on Wiener indices in combinatorial chemistry. (English summary) **2005e:05042**
Barbi, Maria (*with* Mozziconacci, Julien; Victor, Jean-Marc) How the chromatin fiber deals with topological constraints. (English summary)
Barnes, Earl R. *see* **Strickland, Dawn M. et al.**
Bauer, William R. *see* **White, J. H.**, 2005b:92029
Bereg, Sergei *see* **Ban, Yih-En Andrew et al.**, 2005e:05042
Beylkin, Gregory *see* **Harrison, Robert J. et al.**, (2005g:65007)
Böckenhauer, Hans-Joachim (*with* Bongartz, Dirk) Protein folding in the HP model on grid lattices with diagonals (extended abstract). (English summary) (*see* **2005m:68011**)
Bonchev, Danail *see* **Balaban, Alexandru T.**, 2005m:52016
Bongartz, Dirk *see* **Böckenhauer, Hans-Joachim**, (2005m:68011)
Booth, Hilary S. (*with* Burden, Conrad J.; Hegland, Markus; Santoso, Lucia) Markov process modelling of gene regulation. (English summary) **2005j:92014**
Bousoño-Calzón, Carlos *see* **Pelta, David et al.**
Braun, Joachim (*with* Kerber, Adalbert; Meringer, M.; Rücker, C.) Similarity of molecular descriptors: the equivalence of Zagreb indices and walk counts. (English summary)
Brizhik, L. (*with* Eremko, Aleksandr Aleksandrovich; Piette, B. M. A. G.; Zakrzewski, Wojciech J.) Solitons in α-helical proteins. (English summary) **2005k:92023**
Broyde, Suse *see* **Zhang, Qing[5] et al.**
Bucknum, Michael J. (*with* Castro, Eduardo A.) Spiroconjugation in 1-, 2-, and 3-dimensions: the foundations of a spiro quantum chemistry. (English summary)
Bultinck, Patrick *see* **Carbó-Dorca, Ramon**, 2005g:81360 *and* **2005g:81361**
Burden, Conrad J. *see* **Booth, Hilary S. et al.**, 2005j:92014
Burke, Edmund K. *see* **Pelta, David et al.**
Byrd, Richard H. *see* **Eskow, Elizabeth et al.**
Carbó-Dorca, Ramon Infinite-dimensional time vectors as background building blocks of a space-time frame structure. (English summary) **2005e:81008**
— (*with* Bultinck, Patrick) A general procedure to obtain quantum mechanical charge and bond order molecular parameters. (English summary) **2005g:81360**
— (*with* Bultinck, Patrick) Quantum mechanical basis for Mulliken population analysis. (English summary) **2005g:81361**
Carr, Robert D. (*with* Lancia, Giuseppe G.) Compact optimization can outperform separation: a case study in structural proteomics. (English summary) **2005h:90104**
Castro, Eduardo A. *see* **Bucknum, Michael J.**
Chazelle, Bernard (*with* Kingsford, Carl; Singh, Mona) A semidefinite programming approach to side chain positioning with new rounding strategies. (English summary) **2005g:92015**
Chen, Guowang (*with* Zhang, Hong Wei[2]) Initial boundary value problem for a system of generalized IMBq equations. (English summary) **2005b:35031**
Chiu, David K. Y. (*with* Wong, Andrew K. C.) Multiple pattern associations for interpreting structural and functional characteristics of biomolecules. (English summary)
Chou, Kuo-Chen *see* **Wang, Meng[3] et al.**
Coleman, Bernard D. (*with* Swigon, David) Theory of self-contact in Kirchhoff rods with applications to supercoiling of knotted and unknotted DNA plasmids. (English summary) **2005d:74016**
— *see also* **Olson, Wilma K. et al.**, 2005b:92027
Condon, Anne Problems on RNA secondary structure prediction and design. (English summary) (*see* **2005b:68008**)
— (*with* Davy, Beth; Rastegari, Baharak; Zhao, Yinglei; Tarrant, Finbarr) Classifying RNA pseudoknotted structures. (English summary) **2005a:92016**
Cotik, V. (*with* Romero Zaliz, R.; Zwir, I.) A hybrid promoter analysis methodology for prokaryotic genomes. (English summary)
Coveney, Peter V. *see* **Grindon, Christina et al.**
Crivelli, Silvia *see* **Eskow, Elizabeth et al.**
Das, Kinkar Ch. (*with* Gutman, Ivan M.) Some properties of the second Zagreb index. (English summary)
Davy, Beth *see* **Condon, Anne et al.**, 2005a:92016
Ding, Shi-Liang *see* **Wang, Xiao-Yan**, 2005e:81271
El-Basil, Sherif *see* **Fujita, Shinsaku**
Elber, Ron *see* **Wagner, Michael et al.**
Elston, Timothy C. *see* **Goedecke, D. Michael**
Eremko, Aleksandr Aleksandrovich *see* **Brizhik, L. et al.**, 2005k:92023
Eskow, Elizabeth (*with* Bader, Brett W.; Byrd, Richard H.; Crivelli, Silvia; Head-Gordon, Teresa; Lamberti, Vincent; Schnabel, Robert B.) An optimization approach to the problem of protein structure prediction. (English summary)
Evans, Tom *see* **Grindon, Christina et al.**
Fang, Kai-Tai *see* **Hu, Qian-Nan et al.**, 2005m:81349
Fann, George I. *see* **Harrison, Robert J. et al.**, (2005g:65007)
Fernández, Ariel (*with* Rogale, Kristina) Sequence-space selection of cooperative model proteins. (English summary) **2005a:92036**
Fokas, A. S. (*with* Gel'fand, Izrail' Moiseevich; Kister, A. E.) Prediction of the structural motifs of sandwich proteins. (English summary) **2005h:92017**
Fox, Richard Directed molecular evolution by machine learning and the influence of nonlinear interactions. (English summary)
Fujita, Shinsaku Integrated discussion on stereogenicity and chirality for restructuring stereochemistry. (English summary) **2005d:05076**
— (*with* El-Basil, Sherif) Doubly-colored graphs as graphical models for subductions of coset representations, double cosets, and unit subduced cycle indices. (English summary)
Furtula, Boris *see* **Gutman, Ivan M. et al.**, 2005m:05219
Gao, Jinwu (*with* Lu, Mei[1]) On the Randić index of unicyclic graphs. (English summary) **2005k:05072**
Gardner, Richard J. (*with* Longinetti, Marco; Sgheri, Luca) Reconstruction of orientations of a moving protein domain from paramagnetic data. (English summary)
Gel'fand, Izrail' Moiseevich *see* **Fokas, A. S. et al.**, 2005h:92017
Gilks, Walter R. (*with* Audit, Benjamin; de Angelis, Daniela; Tsoka, Sophia; Ouzounis, Christos A.) Percolation of annotation errors through hierarchically structured protein sequence databases. (English summary)
Goedecke, D. Michael (*with* Elston, Timothy C.) A model for the oscillatory motion of single dynein molecules. (English summary)

Graver, Jack E. Encoding fullerenes and geodesic domes. (English summary) **2005f:05044**

Gribov, L. A. (*with* Pavlyuchko, A. I.) ★ Вариационные методы решения ангармонических задач в теории колебательных спектров молекул. (Russian. Russian summary) [Variational methods for solving anharmonic problems in the theory of oscillatory spectra of molecules] **2005g:81362**

Grindon, Christina (*with* Harris, Sarah; Evans, Tom; Novik, Keir; Coveney, Peter V.; Laughton, Charles) Large-scale molecular dynamics simulation of DNA: implementation and validation of the AMBER98 force field in LAMMPS. (English summary)

Guénoche, Alain About the design of oligo-chips. (English summary)

Gutman, Ivan M. (*with* Toropov, Andrey A.; Toropova, Alla P.) The graph of atomic orbitals and its basic properties. I. Wiener index. (English summary) **2005m:05218**

— (*with* Furtula, Boris; Toropov, Andrey A.; Toropova, Alla P.) The graph of atomic orbitals and its basic properties. II. Zagreb indices. (English summary) **2005m:05219**

— *see also* **Das, Kinkar Ch.** *and* **Hansen, Pierre et al.**

Han, Le (*with* Mo, Zhong Xi) RNA-Z curve and its application in distinguishing bacterial genomes. (Chinese. English and Chinese summaries)

Hansen, Pierre (*with* Mélot, Hadrien; Gutman, Ivan M.) Variable neighborhood search for extremal graphs. XII. A note on the variance of bounded degrees in graphs. (English summary)

Harris, Sarah *see* **Grindon, Christina et al.**

Harrison, Robert J. (*with* Fann, George I.; Yanai, Takeshi; Beylkin, Gregory) Multiresolution quantum chemistry in multiwavelet bases. (English summary) (*see* **2005g:65007**)

He, Ping-an (*with* Wang, Jun[1]) Some properties for DNA curve. (English summary)

Head-Gordon, Teresa *see* **Eskow, Elizabeth et al.**

Hegland, Markus *see* **Booth, Hilary S. et al., 2005j:92014**

van der Heijden, G. H. M. A robust variational formulation for a rod subject to inequality constraints. (English summary) (*see* **2005g:74002**)

Hirst, Jonathan D. *see* **Pelta, David et al.**

Hoffman, Kathleen A. Methods for determining stability in continuum elastic-rod models of DNA. (English summary) **2005c:74055**

Hu, Qian-Nan (*with* Liang, Yi-Zeng; Xu, Qing-Song; Fang, Kai-Tai; Peng, Xiao-Ling; Yin, Hong) Structural features hidden in the degree distributions of topological graphs. (English summary) **2005m:81349**

Hu, Yumei (*with* Li, Xue-liang; Yuan, Yuan[3]) Trees with minimum general Randić index. (English summary)

— (*with* Li, Xue-liang; Yuan, Yuan[3]) Trees with maximum general Randić index. (English summary)

Huang, Niu (*with* MacKerell, Alexander D., Jr.) Atomistic view of base flipping in DNA. (English summary)

Hyde, Stephen T. *see* **Robins, Vanessa et al., 2005k:52037**

Janke, Wolfhard *see* **Schiemann, Reinhard et al., 2005j:82084** *and* **Bachmann, Michael et al., 2005k:82108**

Jia, Ning (*with* McLaughlin, K. W.) Fibonacci trees: a study of the asymptotic behavior of Balaban's index. (English summary) **2005a:05064**

(Karimi, Sasan) *see* **Kennedy, John W.**

Kennedy, John W. (*with* Quintas, Louis V.) Editorial comment: "Double bonds in hexacyclic hydrocarbons and maximal planar graphs" [Graph Theory Notes N. Y. **43** (2002), 9–11; MR1960488] by S. Karimi, M. Lewinter, and J. Stauffer.

Kerber, Adalbert *see* **Braun, Joachim et al.**

Kingsford, Carl *see* **Chazelle, Bernard et al., 2005g:92015**

Kister, A. E. *see* **Fokas, A. S. et al., 2005h:92017**

Koudella, Christophe R. *see* **Balaeff, Alexander et al., 2005c:92019**

Krasnogor, Natalio *see* **Pelta, David et al.**

Lamberti, Vincent *see* **Eskow, Elizabeth et al.**

Lancia, Giuseppe G. *see* **Carr, Robert D., 2005h:90104**

Laughton, Charles *see* **Grindon, Christina et al.**

Lavor, Carlile (*with* Maculan, Nelson) Reducing the cost of evaluation of the gradient and Hessian of molecular potential energy functions. (English summary) **2005j:90112**

Lewin, Mathieu A mountain pass for reacting molecules. (English summary) **2005f:58016**

(Lewinter, Marty) *see* **Kennedy, John W.**

Li, Xue-liang (*with* Yang, Yiting) Sharp bounds for the general Randić index. (English summary) **2005a:05124**

— (*with* Yang, Yiting) Best lower and upper bounds for the Randić index R_{-1} of chemical trees. (English summary)

— (*with* Wang, Xueqin; Wei, Bing[1]) On the lower and upper bounds for general Randić index of chemical (n, m)-graphs. (English summary)

— *see also* **Zhao, Hai Xing, 2005a:05127** *and* **Hu, Yumei et al.**

Liang, Yi-Zeng *see* **Hu, Qian-Nan et al., 2005m:81349**

Liao, Bo (*with* Wang, Tian Ming) General combinatorics of RNA secondary structure. (English summary) **2005c:92013**

Lim, Jong-Tage *see* **Yun, Bo-Hyun**

Liu, Wing Kam *see* **Liu, Yaling et al., 2005h:92011**

Liu, Yaling (*with* Zhang, Lucy; Wang, Xiaodong; Liu, Wing Kam) Coupling of Navier-Stokes equations with protein molecular dynamics and its application to hemodynamics. (English summary) **2005h:92011**

Longinetti, Marco *see* **Gardner, Richard J. et al.**

Lu, Mei[1] *see* **Gao, Jinwu, 2005k:05072**

MacKerell, Alexander D., Jr. *see* **Huang, Niu**

Maculan, Nelson *see* **Lavor, Carlile, 2005j:90112**

Mahadevan, L. *see* **Balaeff, Alexander et al., 2005c:92019**

Mamedov, Bahtiyar On the evaluation of Boys functions using downward recursion relation. (English summary)

Marko, John F. *see* **Sankararaman, Sumithra**

McLaughlin, K. W. *see* **Jia, Ning, 2005a:05064**

Meller, Jarosław *see* **Wagner, Michael et al.**

Mélot, Hadrien *see* **Hansen, Pierre et al.**

Meringer, M. *see* **Braun, Joachim et al.**

Mo, Zhong Xi *see* **Han, Le**

Montenegro, R. *see* **Soboleva, T. K. et al.**

Mozziconacci, Julien *see* **Barbi, Maria et al.**

Musavi, M. T. *see* **Ressom, H. et al.**

Mustafa, Nabil H. *see* **Ban, Yih-En Andrew et al., 2005e:05042**

Natarajan, Padma *see* **Ressom, H. et al.**

Nixon, A. J. *see* **Soboleva, T. K. et al.**

Nogueira, Fernando *see* **Alberto, P. V. et al., 2005k:90146**

Novik, Keir *see* **Grindon, Christina et al.**

Odijk, Theo Statics and dynamics of condensed DNA within phages and globules. (English summary)

Olson, Wilma K. (*with* Swigon, David; Coleman, Bernard D.) Implications of the dependence of the elastic properties of DNA on nucleotide sequence. (English summary) **2005b:92027**

Ouzounis, Christos A. *see* **Gilks, Walter R. et al.**

Pavlyuchko, A. I. *see* **Gribov, L. A., 2005g:81362**

Pearson, A. J. *see* **Soboleva, T. K. et al.**

Pelta, David (*with* Krasnogor, Natalio; Bousoño-Calzón, Carlos; Verdegay, José Luis; Hirst, Jonathan D.; Burke, Edmund K.) A fuzzy sets based generalization of contact maps for the overlap of protein structures. (English summary)

Peng, Xiao-Ling *see* **Hu, Qian-Nan et al., 2005m:81349**

Petitjean, Michel From shape similarity to shape complementarity: toward a docking theory. (English summary) **2005g:60036**

Piette, B. M. A. G. *see* **Brizhik, L. et al., 2005k:92023**

Prunell, Ariel *see* **Sivolob, Andrei, 2005b:92017**

Quintas, Louis V. *see* **Kennedy, John W.**

Rada, Juan Hexagonal systems with extremal connectivity index. (English summary)

— Energy ordering of catacondensed hexagonal systems. (English summary) **2005k:05149**

Ramsden, S. J. *see* **Robins, Vanessa et al., 2005k:52037**

Rastegari, Baharak *see* **Condon, Anne et al., 2005a:92016**

Ressom, H. (*with* Natarajan, Padma; Varghese, R. S.; Musavi, M. T.) Applications of fuzzy logic in genomics. (English summary)

Rispoli, Fred J. Counting perfect matchings in hexagonal systems associated with benzenoids.

Robins, Vanessa (*with* Ramsden, S. J.; Hyde, Stephen T.) Symmetry groups and reticulations of the hexagonal H surface. (English summary) **2005k:52037**

Rocha, Humberto *see* **Alberto, P. V. et al., 2005k:90146**

Rogale, Kristina *see* **Fernández, Ariel, 2005a:92036**

Romero Zaliz, R. *see* **Cotik, V. et al.**

Rosselló-Llompart, Francesc Reidys' and Stadler's metrics for RNA contact structures. (English summary)

Rücker, C. *see* **Braun, Joachim et al.**

Sankararaman, Sumithra (*with* Marko, John F.) Formation of loops in DNA under tension. (English summary)

Santoso, Lucia *see* **Booth, Hilary S. et al., 2005j:92014**

Schiemann, Reinhard (*with* Bachmann, Michael; Janke, Wolfhard) Exact enumeration of three-dimensional lattice proteins. (English summary) **2005j:82084**

Schlick, Tamar *see* **Zhang, Qing[5] et al.**

Schnabel, Robert B. *see* **Eskow, Elizabeth et al.**

Schulten, Klaus *see* **Balaeff, Alexander et al., 2005c:92019**

Sgheri, Luca *see* **Gardner, Richard J. et al.**

Shan, Baozhen Stochastic context-free graph grammars for glycoprotein modelling. (English summary) (*see* **2005m:68009**)

Singh, Mona *see* **Chazelle, Bernard et al., 2005g:92015**

Sivolob, Andrei (*with* Prunell, Ariel) Nucleosome conformational flexibility and implications for chromatin dynamics. (English summary) **2005b:92017**

Sneyd, James *see* **Soboleva, T. K. et al.**

Soboleva, T. K. (*with* Vetharaniam, I.; Nixon, A. J.; Montenegro, R.; Pearson, A. J.; Sneyd, James) Mathematical modelling of prolactin-receptor interaction and the corollary for prolactin receptor gene expression in skin. (English summary)

Sokol, Joel S. *see* **Strickland, Dawn M. et al.**

(Stauffer, Julian) *see* **Kennedy, John W.**

Stevanović, Dragan Energy and NEPS of graphs. (English summary) **2005k:05152**

Steyaert, Jean-Marc *see* **Waldispühl, Jérôme, 2005m:92014**

Strickland, Dawn M. (*with* Barnes, Earl R.; Sokol, Joel S.) Optimal protein structure alignment using maximum cliques. (English summary)

Sumners, De Witt *see* **Vazquez, Mariel, 2005d:57013**

Sutcliffe, Paul M. *see* **Atiyah, Michael, 2005m:81347**

Swigon, David *see* **Olson, Wilma K. et al., 2005b:92027** *and* **Coleman, Bernard D., 2005d:74016**

Tarrant, Finbarr *see* **Condon, Anne et al., 2005a:92016**

Temme, F. P. Erratum: "Quasi-particle dual mappings on $\{\overline{\mathbb{H}}_v\}$ carrier spaces for dynamical structures of $\mathscr{S}_{2n}$-invariant-based integer rank tensorial sets: a democratic recoupling $\mathscr{S}_{2n}$-compatible overview of v-auxiliary labelling in superboson algebras of uniform multispin NMR ensembles" [J. Math. Chem. **31** (2002), no. 3, 281–312; MR1939916 (2004a:81109)].

Tobias, Irwin Thermal fluctuations of small rings of intrinsically helical DNA treated like an elastic rod. (English summary) **2005b:92028**

Toropov, Andrey A. *see* **Gutman, Ivan M. et al., 2005m:05218** *and* **2005m:05219**

Toropova, Alla P. *see* **Gutman, Ivan M. et al., 2005m:05218** *and* **2005m:05219**

Travers, A. A. The structural basis of DNA flexibility. (English summary) **2005b:92018**

Trinajstić, Nenad *see* **Vukičević, Damir, 2005k:05129**

Tsoka, Sophia *see* **Gilks, Walter R. et al.**

Varghese, R. S. *see* **Ressom, H. et al.**

Vazquez, Mariel (*with* Sumners, De Witt) Tangle analysis of Gin site-specific recombination. (English summary) **2005d:57013**

Verdegay, José Luis *see* **Pelta, David et al.**

Vetharaniam, I. *see* **Soboleva, T. K. et al.**

Vicente, Luís N. *see* **Alberto, P. V. et al., 2005k:90146**

Victor, Jean-Marc *see* **Barbi, Maria et al.**

Vivien, Frédéric (*with* Wicker, Nicolas) Minimal enclosing parallelepiped in 3D. (English summary) **2005g:52039**

Vukičević, Damir (*with* Trinajstić, Nenad) On the discriminatory power of the Zagreb indices for molecular graphs. (English summary) **2005k:05129**
— (*with* Žerovnik, Janez) Variable Wiener indices. (English summary) **2005k:05130**
Wagner, Michael (*with* Meller, Jarosław; Elber, Ron) Large-scale linear programming techniques for the design of protein folding potentials. (English summary)
Waldispühl, Jérôme (*with* Steyaert, Jean-Marc) Modeling and predicting all-α transmembrane proteins including helix–helix pairing. (English summary) **2005m:92014**
Wang, Jun[1] *see* **He, Ping-an**
Wang, Meng[3] (*with* Yang, Jie[3]; Xu, Zhi-Jie; Chou, Kuo-Chen) SLLE for predicting membrane protein types. (English summary)
Wang, Tian Ming *see* **Liao, Bo, 2005c:92013**
Wang, Xiao-Yan (*with* Ding, Shi-Liang) An application of the dynamical Lie algebraic method to potential energy surface of the stable linear asymmetric tetratomic molecules. (English summary) **2005e:81271**
Wang, Xiaodong *see* **Liu, Yaling et al., 2005h:92011**
Wang, Xueqin *see* **Li, Xue-liang et al.**
Wattis, Jonathan A. D. Nonlinear breathing modes due to a defect in a DNA chain. (English summary)
Wei, Bing[1] *see* **Li, Xue-liang et al.**
White, J. H. (*with* Bauer, William R.) Finite-element analysis of the displacement of closed DNA loops under torsional stress. (English summary) **2005b:92029**
Wicker, Nicolas *see* **Vivien, Frédéric, 2005g:52039**
Wong, Andrew K. C. *see* **Chiu, David K. Y.**
Wu, Baoyindureng *see* **Zhang, Li**[10]
Xia, Bi Can (*with* Yang, Lu[1]) A new result on the p-irreducibility of binding polynomials. (English summary)
Xu, Qing-Song *see* **Hu, Qian-Nan et al., 2005m:81349**
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Yanai, Takeshi *see* **Harrison, Robert J. et al., (2005g:65007)**
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Yang, Jie[3] *see* **Wang, Meng**[3] **et al.**
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Yuan, Yuan[3] *see* **Hu, Yumei et al.**
Yun, Bo-Hyun (*with* Lim, Jong-Tage) Protein name recognition from biomedical texts. (English summary)
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Žerovnik, Janez *see* **Vukičević, Damir, 2005k:05130**
Zhang, Hong Wei[2] *see* **Chen, Guowang, 2005b:35031**
Zhang, Li[10] (*with* Wu, Baoyindureng) The Nordhaus-Goddum-type inequalities for some chemical indices. (English summary)
Zhang, Lucy *see* **Liu, Yaling et al., 2005h:92011**
Zhang, Qing[5] (*with* Broyde, Suse; Schlick, Tamar) Deformations of promoter DNA bound to carcinogens help interpret effects on TATA-element structure and activity. (English summary)
Zhao, Hai Xing (*with* Li, Xue-liang) Trees with small Randić connectivity indices. (English summary) **2005a:05127**
Zhao, Yinglei *see* **Condon, Anne et al., 2005a:92016**
Zhou, Bo[2] Energy of a graph. (English summary) **2005a:05144**
— Zagreb indices. (English summary) **2005f:05160**
Zwir, I. *see* **Cotik, V. et al.**

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Aach, John (*with* Church, George M.) Mathematical models of diffusion-constrained polymerase chain reactions: basis of high-throughput nucleic acid assays and simple self-organizing systems. (English summary)
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Bastin, Georges *see* **Bernard, Olivier**
Beard, Daniel A. (*with* Babson, Eric; Curtis, Edward; Qian, Hong) Thermodynamic constraints for biochemical networks. (English summary)
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Bedeaux, Dick *see* **Kjelstrup, S. et al.**
Berezin, A. Yu. *see* **Fadeev, S. I. et al.**
Bernard, Olivier (*with* Bastin, Georges) On the estimation of the pseudo-stoichiometric matrix for macroscopic mass balance modelling of biotechnological processes. (English summary)
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Bourke, Paul D. *see* **Kettunen, P. et al.**
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Clarke, Bertrand (*with* Fawcett, Glenn; Mittenthal, Jay E.) Netscan: a procedure for generating reaction networks by size. (English summary)
Corne, Dave *see* **Pritchard, Leighton et al.**
Curtis, Edward *see* **Beard, Daniel A. et al.**
Davidson, Fordyce A. *see* **Stoleriu, I. et al., 2005i:92037**
Ding, Peizhu *see* **He, Jianfeng et al.**
Di Stefano, Marco (*with* Rosi, Marzio; Sgamellotti, Antonio) Theoretical investigations on the reactions of $C_6H_5^+$ and $C_{10}H_7^+$ with D_2. (English summary) (*see* **2005c:00015**)
Dochain, Denis *see* **Rapaport, Alain**
Edeson, Robert O. *see* **Khan, R. Nazim et al.**
Fadeev, S. I. (*with* Gaĭnova, I. A.; Berezin, A. Yu.; Ratushnyĭ, A. V.; Matushkin, Yu. G.; Likhoshvaĭ, V. A.) Investigation of stationary solutions in models of gene networks by the homotopy method. (Russian. English summary)
Fawcett, Glenn *see* **Clarke, Bertrand et al.**
Fayolle, Guy (*with* Malyshev, V. A.; Pirogov, S. A.) Stochastic chemical kinetics with energy parameters. (English summary) (*see* **2005d:00014**)
Fei, Xiangyang *see* **Wang, Jiang et al., 2005f:92040**
Fredebeul, Christoph *see* **Platte, Frank et al., (2005m:41001)**
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Guo, Hongyu (*with* Li, Liang; Wang, Hong Li; Ouyang, Qi) Chemical waves with line defects in the Belousov-Zhabotinsky reaction. (English summary) **2005f:92036**
Haag, Jens E. (*with* Vande Wouwer, Alain; Bogaerts, Philippe) Dynamic modeling of complex biological systems: a link between metabolic and macroscopic description. (English summary) **2005j:92029**
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Hayashi, Shizue *see* **Watanabe, Masaji et al., 2005g:92042**
He, Jianfeng (*with* Hua, Wei[1]; Liu, Xueshen[2]; Ding, Peizhu) Computation of quasiclassical trajectories by symplectic algorithm for the $N(^4S) + O_2(X^3\Sigma_g^-) \to NO(X^2\Pi) + O(^3P$ reaction system. (English summary)
Hordijk, Wim (*with* Steel, Michael Anthony) Detecting autocatalytic, self-sustaining sets in chemical reaction systems. (English summary)
Hua, Wei[1] *see* **He, Jianfeng et al.**
Ingalls, Brian P. (*with* Sauro, Herbert M.) Sensitivity analysis of stoichiometric networks: an extension of metabolic control analysis to non-steady state trajectories. (English summary) **2005j:92030**
Irie, Toshinori *see* **Shiraishi, Fumihide et al.**
Kawai, Fusako *see* **Watanabe, Masaji et al., 2005g:92042**
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Kell, Douglas *see* **Pritchard, Leighton et al.**
Kettunen, P. (*with* Bourke, Paul D.; Hashimoto, Hajime; Amemiya, Takashi; Müller, Stefan C.; Yamaguchi, Tomohiko) Computational study of helix wave formation in active media. (English summary)
Khan, R. Nazim (*with* Martinac, Boris; Madsen, Barry W.; Milne, Robin K.; Yeo, Geoffrey F.; Edeson, Robert O.) Hidden Markov analysis of mechanosensitive ion channel gating. (English summary)
Kiss, I. Z. (*with* Merkin, John H.; Neufeld, Zoltán) Homogenization induced by chaotic mixing and diffusion in an oscillatory chemical reaction. (English summary **2005k:92079**
— (*with* Merkin, John H.; Scott, Stephen K.; Simon, Peter L.) Electric field effects on travelling waves in the oregonator model for the Belousov-Zhabotinsky reaction. (English summary)
Kjelstrup, S. (*with* Rubi, J. M.; Bedeaux, Dick) Active transport: a kinetic description based on thermodynamic grounds. (English summary
Kolokolnikov, Theodore (*with* Ward, Michael Jeffrey; Wei, Juncheng) The existence and stability of spike equilibria in the one-dimensional Gray-Scott model: the pulse-splitting regime. (English summary) **2005k:92080**
Kurkina, E. S. Mathematical modeling of space-time structures in heterogeneous catalytic reactions. (Russian. Russian summary) (*see* **2005f:37002**)
Kuzmin, Dmitri *see* **Platte, Frank et al., (2005m:41001)**
Leach, J. A. *see* **Smith, Stephanie Caroline et al., 2005k:92081**
Lehn, Michael (*with* Scherer, Rudolf) Mathematical modeling and scientific computing exemplary for chemical processes. (*see* **2005m:00007**)
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Li, Liang *see* **Guo, Hongyu et al., 2005f:92036**
Liebermeister, Wolfram Response to temporal parameter fluctuations in biochemical networks. (English summary)
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Madsen, Barry W. *see* **Khan, R. Nazim et al.**
Malaguti, Luisa (*with* Marcelli, Cristina) The influence of convective effects on front propagation in certain diffusive models. (*see* **2005d:92001**)
Malyshev, V. A. *see* **Fayolle, Guy et al., (2005d:00014)**
Maquet, Jean (*with* Letellier, Christophe; Aguirre, Luis A.) Scalar modeling and analysis of a 3D biochemical reaction model. (English summary
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Marhl, Marko *see* **Perc, Matjaž**
Martinac, Boris *see* **Khan, R. Nazim et al.**
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Molnár, Tamás Lotka-Volterra autocatalator (LVA) with irreversible reaction steps. (Hungarian. English and Hungarian summaries)
Morishita, Yoshihiro (*with* Aihara, Kazuyuki) Noise-reduction through interaction in gene expression and biochemical reaction processes. (English summary)
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Müller, Stefan C. *see* **Kettunen, P. et al.**
Needham, D. J. *see* **Smith, Stephanie Caroline et al., 2005k:92081**
Nelson, M. I. Bifurcation phenomena for an oxidation reaction in a continuously stirred tank reactor. III. The inhibiting effect of an inert species. (English summary)
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Nie, Yi Min Nonlinear analysis of a polymolecular reversible saturated biochemical reaction system. (Chinese. English and Chinese summaries) **2005m:92071**
Østby, Ivar (*with* Winther, Ragnar) Stability of a model of human granulopoiesis using continuous maturation. (English summary) **2005f:92038**
Ouyang, Qi *see* **Guo, Hongyu et al., 2005f:92036**
Peña, B. (*with* Pérez-García, Carlos; Bestehorn, Michael) Modulated standing waves resulting from a Hopf-wave interaction in a chemical model. (English summary)
Perc, Matjaž (*with* Marhl, Marko) Synchronization of regular and chaotic oscillations: the role of local divergence and the slow passage effect. A case study on calcium oscillations. (English summary)
Pérez-García, Carlos *see* **Peña, B. et al.**
Perry, M. F. (*with* Vol'pert, Vit. A.) Self-propagating free-radical binary frontal polymerization. (English summary) **2005a:92069**
Pirogov, S. A. *see* **Fayolle, Guy et al., (2005d:00014)**
Platte, Frank (*with* Kuzmin, Dmitri; Fredebeul, Christoph; Turek, Stefan) Novel simulation approaches for cyclic steady-state fixed-bed processes exhibiting sharp fronts and shocks. (English summary) (*see* **2005m:41001**)
Pritchard, Leighton (*with* Corne, Dave; Kell, Douglas; Rowland, Jem; Winson, Mike) A general model of error-prone PCR. (English summary)
Qian, Hong *see* **Beard, Daniel A. et al.**
Rapaport, Alain (*with* Dochain, Denis) Interval observers for biochemical processes with uncertain kinetics and inputs. (English summary)
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Shen, Cong (*with* Shen, Bo Qian; Liu, De Ming[1]) More discussion on an enzymatic reaction dynamic system. (Chinese. English and Chinese summaries)
Shibata, Masaru[2] *see* **Watanabe, Masaji et al., 2005g:92042**
Shiraishi, Fumihide (*with* Hatoh, Yuji; Irie, Toshinori) An efficient method for calculation of dynamic logarithmic gains in biochemical systems theory. (English summary)
Simon, Peter L. *see* **Kiss, I. Z. et al.**
Smith, Stephanie Caroline (*with* Needham, D. J.; Leach, J. A.) The evolution of travelling waves in a simple model for an ionic autocatalytic system. (English summary) **2005k:92081**
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Stéfanini, M. O. (*with* McKane, Alan J.; Newman, T. J.) Single enzyme pathways and substrate fluctuations. (English summary)
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Sudate, Yasuhiro *see* **Watanabe, Masaji et al., 2005g:92042**
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Vol'pert, Vit. A. *see* **Perry, M. F., 2005a:92069**
Waalkens, Holger (*with* Wiggins, Stephen) Direct construction of a dividing surface of minimal flux for multi-degree-of-freedom systems that cannot be recrossed. (English summary) **2005f:92039**
Wang, Hong Li *see* **Guo, Hongyu et al., 2005f:92036**
Wang, Jiang (*with* Geng, Jianming; Fei, Xiangyang) Two-parameters Hopf bifurcation in the Hodgkin-Huxley model. (English summary) **2005f:92040**
Ward, Michael Jeffrey *see* **Kolokolnikov, Theodore et al., 2005k:92080**
Watanabe, Masaji (*with* Kawai, Fusako; Shibata, Masaru[2]; Yokoyama, Shigeo; Sudate, Yasuhiro; Hayashi, Shizue) Analytical and computational techniques for exogenous depolymerization of xenobiotic polymers. (English summary) **2005g:92042**
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Avetisov, V. A. (*with* Bikulov, A. Kh.; Osipov, V. Al.) p-adic models of ultrametric diffusion in the conformational dynamics of macromolecules. (Russian. Russian summary) **2005g:80011**
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de Bortoli, A. L. Mixing and chemical reacting flow simulations inside square cavities. (English summary) **2005h:65129**
Borzì, Alfio (*with* Griesse, Roland) Experiences with a space-time multigrid method for the optimal control of a chemical turbulence model. (English summary) **2005j:65101**
Branlant, Christiane *see* **Eveillard, Damien et al., 2005e:92016**
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Byrne, Helen M. (*with* Owen, Markus R.) A new interpretation of the Keller-Segel model based on multiphase modelling. (English summary) **2005g:92006**
Callahan, T. K. Turing patterns with O(3) symmetry. (English summary) **2005f:37108**
Calvo, Mari Paz (*with* Gerisch, Alf) Linearly implicit Runge-Kutta methods and approximate matrix factorization. (English summary) **2005m:65134**
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Creagh, Stephen C. Classical transition states in quantum theory. (English summary) **2005f:81070**
Curti, M. (*with* Degano, Pierpaolo; Priami, C.; Baldari, C. T.) Modelling biochemical pathways through enhanced π-calculus. (English summary) **2005e:92015**
Danos, Vincent (*with* Laneve, Cosimo) Formal molecular biology. (English summary) **2005g:92016**
Degano, Pierpaolo *see* **Curti, M. et al., 2005e:92015**
Doelman, Arjen (*with* Gardner, Robert A.; Kaper, Tasso J.) A stability index analysis of 1-D patterns of the Gray-Scott model. (English summary) **2005c:34090**
Dolbeault, Jean (*with* Perthame, Benoît) Optimal critical mass in the two-dimensional Keller-Segel model in $\mathbb{R}^2$. (English and French summaries) **2005h:35189**
Dramé, Abdou Khadry A semilinear parabolic boundary-value problem in bioreactors theory. (English summary) **2005h:35149**
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Ertler, C. (*with* Caraffini, G. L.; Schürrer, F.; Spiga, Giampiero) A multicell approximation to the Boltzmann equation for bimolecular chemical reactions. (English summary)
Eveillard, Damien (*with* Ropers, Delphine; de Jong, Hidde; Branlant, Christiane; Bockmayr, Alexander) A multi-scale constraint programming model of alternative splicing regulation. (English summary) **2005e:92016**
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Field, Martin John Simulating chemical reactions in complex systems. (*see* **2005c:81001**)
Freire Macías, Emilio (*with* Pizarro, L.; Rodríguez-Luis, Alejandro J.; Fernández-Sánchez, Fernando) Multiparametric bifurcations in an enzyme-catalyzed reaction model. (English summary) **2005k:37119**
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Gottwald, Georg A. (*with* Kramer, Lorenz) On propagation failure in one- and two-dimensional excitable media. (English summary) **2005d:92005**
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Kolesov, A. Yu. (*with* Rozov, Nikolaĭ Khristovich; Sadovnichiĭ, Viktor Antonovich) Existence and stability of time-periodic dissipative structures in parabolic systems of reaction-diffusion type. (Russian. Russian summary) **2005f:35166**
Kong, Xinguo *see* **Qiao, Yu[2] et al., 2005k:76132**
Koo, Ja-Yong *see* **Cardot, Hervé et al.**
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Lalam, Nadia (*with* Jacob, Christine) Estimation of the offspring mean for a general class of size-dependent branching processes. Application to quantitative polymerase chain reaction. (English summary) (*see* **2005d:00014**)
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Mimura, Masayasu Pattern formation in consumer-finite resource reaction-diffusion systems. **2005m:35158**
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Pécou, Elisabeth Splitting the dynamics of large biochemical interaction networks. (English summary)
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Prat, Alain (*with* Li, Yue-Xian; Bressloff, Paul C.) Inhomogeneity-induced bifurcation of stationary and oscillatory pulses. (English summary) **2005k:35224**
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Qiao, Yu² (*with* Kong, Xinguo; Chakravarthula, Srinivas S.) An analysis of aggregate response of confined liquids in nanoenvironment. (English summary) **2005k:76132**
Quapp, Wolfgang Newton trajectories in the curvilinear metric of internal coordinates. (English summary) **2005h:37210**
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Ramos, J. I. Spiral wave break-up and planar front formation in two-dimensional reactive-diffusive media with straining. (English summary) **2005d:35108**
Regev, Aviv (*with* Panina, Ekaterina M.; Silverman, William; Cardelli, Luca; Shapiro, Ehud) BioAmbients: an abstraction for biological compartments. (English summary) **2005e:92018**
Reiner, Victor *see* **Edelman, Paul H. et al., 2005b:52026**
Rodríguez, Mauricio (*with* Good, Theresa A.; Wales, Melinda E.; Hua, Jean P.; Wild, James R.) Modeling allosteric regulation of de novo pyrimidine biosynthesis in *Escherichia coli*. (English summary)
Rodríguez-Luis, Alejandro J. *see* **Freire Macías, Emilio et al., 2005k:37119**
Ropers, Delphine *see* **Eveillard, Damien et al., 2005e:92016**
Rozov, Nikolaĭ Khristovich *see* **Kolesov, A. Yu. et al., 2005f:35166**
Sadovnichiĭ, Viktor Antonovich *see* **Kolesov, A. Yu. et al., 2005f:35166**
Schürrer, F. *see* **Ertler, C. et al.**
Seto, Mayumi (*with* Akagi, Tasuku) Daisyworld inhabited with daisies incorporating a seed size/number trade-off: the mechanism of negative feedback on selection from a standpoint of the competition theory. (English summary)
Shapiro, Ehud *see* **Regev, Aviv et al., 2005e:92018**
Silverman, William *see* **Regev, Aviv et al., 2005e:92018**
Spiga, Giampiero *see* **Ertler, C. et al.**
Stadtherr, M. A. *see* **Lin, Youdong, 2005h:90100**
Stout, J. H. *see* **Edelman, Paul H. et al., 2005b:52026**
Tang, Yilei (*with* Zhang, Wei Nian) Bogdanov-Takens bifurcation of a polynomial differential system in biochemical reaction. (English summary) **2005g:37097**
— (*with* Zhang, Wei Nian) Generalized normal sectors and orbits in exceptional directions. (English summary) **2005e:34086**
Tang, Yun-Hai A high-order streamline Godunov scheme for steady hypersonic chemical nonequilibrium expanding flows. (English summary) **2005a:92023**
Timofeeva, Y. (*with* Coombes, S.) Directed percolation in a two-dimensional stochastic fire-diffuse-fire model. (English summary)
Tomioka, Ryota (*with* Kimura, Hidenori; Kobayashi, Tetsuya J.; Aihara, Kazuyuki) Multivariate analysis of noise in genetic regulatory networks. (English summary)
Trubuil, Alain *see* **Cardot, Hervé et al.**
Tyson, John J. *see* **Zwolak, Jason W. et al., 2005f:80015**
Waggoner, S. J. *see* **Morgan, Jeffrey J., 2005b:35153**
Wales, Melinda E. *see* **Rodríguez, Mauricio et al.**
Wang, Wenchuan *see* **Jiang, Guangfeng et al.**
Watson, Layne T. *see* **Zwolak, Jason W. et al., 2005f:80015**
Wattis, Jonathan A. D. (*with* Bolton, Colin D.; Coveney, Peter V.) The Becker-Döring equations with exponentially size-dependent rate coefficients. (English summary) **2005a:82081**
Wild, James R. *see* **Rodríguez, Mauricio et al.**
Zagaris, A. (*with* Kaper, H. G.; Kaper, Tasso J.) Analysis of the computational singular perturbation reduction method for chemical kinetics. (English summary) **2005e:37199**
Zemskov, E. P. (*with* Kassner, K.; Müller, Stefan C.) Stabilization of reaction-diffusion pulses by external forcing. (English summary) **2005k:35233**
Zhang, Jianghua² *see* **Jiang, Guangfeng et al.**
Zhang, Wei Nian *see* **Tang, Yilei, 2005e:34086** *and* **2005g:37097**
Zhang, XianRen *see* **Jiang, Guangfeng et al.**
Zwolak, Jason W. (*with* Tyson, John J.; Watson, Layne T.) Finding all steady state solutions of chemical kinetic models. (English summary) **2005f:80015**

92E99 None of the above, but in this section

Items with secondary classifications in 92E99

Engelen, S. (*with* Hubert, Mia; Vanden Branden, Karlien; Verboven, S.) Robust PCR and robust PLSR: a comparative study. (English summary) (*see* **2005c:62006**)
Hubert, Mia *see* **Engelen, S. et al.,** (**2005c:62006**)
(Le Bris, Claude) *see* **Handbook: Numerical analysis, 2005c:81001**
Vanden Branden, Karlien *see* **Engelen, S. et al.,** (**2005c:62006**)
Verboven, S. *see* **Engelen, S. et al.,** (**2005c:62006**)

Items listed otherwise than by author

Handbook:
Numerical analysis ★ Handbook of numerical analysis. Vol. X. **2005c:81001**

92F05 Other natural sciences

93–XX Systems theory; control {For optimal control, see 49–XX.}

93–01 Instructional exposition (textbooks, tutorial papers, etc.)

Albertos, P. (*with* Sala, Antonio) ★ Multivariable control systems. **2005a:93001**
Burgess, Mark Configurable immunity for evolving human-computer systems. (English summary)
Caldwell, James (*with* Ng, Douglas K. S.) ★ Mathematical modelling. **2005a:93002**
Chen, Ben M. (*with* Lin, Zongli; Shamash, Yacov) ★ Linear systems theory. **2005b:93001**
ElAli, Taan S. ★ Discrete systems and digital signal processing with MATLAB®. **2005d:93001**
Lin, Zongli *see* **Chen, Ben M. et al., 2005b:93001**
Ng, Douglas K. S. *see* **Caldwell, James, 2005a:93002**
Sala, Antonio *see* **Albertos, P., 2005a:93001**
Shamash, Yacov *see* **Chen, Ben M. et al., 2005b:93001**
Wile, David Lessons learned from real DSL experiments. (English summary)

Items with secondary classifications in 93–01

Benvenuti, Luca (*with* Farina, Lorenzo) A tutorial on the positive realization problem. (English summary) **2005b:93035**
Burghes, David (*with* Graham, Alexander) ★ Control and optimal control theories with applications. **2005g:49001**
Chang, Fwu-Ranq ★ Stochastic optimization in continuous time. **2005b:91001**
Farina, Lorenzo *see* **Benvenuti, Luca, 2005b:93035**
Graham, Alexander *see* **Burghes, David, 2005g:49001**
Howison, S. D. ★ Practical applied mathematics. **2005k:00001**
Meyer, Walter J.[1] ★ Concepts of mathematical modeling. **2005h:90004**

93–02 Research exposition (monographs, survey articles)

Agrachev, Andrei A. (*with* Sachkov, Yu. L.) ★ Control theory from the geometric viewpoint. **2005b:93002**
Bacciotti, Andrea (*with* Rosier, Lionel) ★ Liapunov functions and stability in control theory. **2005m:93001**
Bernstein, Dennis S. ★ Matrix mathematics. **2005i:93001**
(Blondel, Vincent D.) *see* **Unsolved problems in mathematical systems and control theory, 2005g:93002**
Bubnicki, Zdzisław ★ Analysis and decision making in uncertain systems. **2005a:93003**
Calafiore, Giuseppe *see* **Tempo, Roberto et al., 2005m:93003**
Chung, Wan Kyun *see* **Kwon, S. J., 2005d:93002**
Costa, Oswaldo L. V. (*with* Fragoso, Marcelo D.; Marques, R. P.) ★ Discrete-time Markov jump linear systems. **2005i:93002**
Dabbene, Fabrizio *see* **Tempo, Roberto et al., 2005m:93003**
De Doná, José A. *see* **Goodwin, Graham C. et al., 2005c:93001**
Espinosa, Jairo (*with* Vandewalle, Joos; Wertz, Vincent) ★ Fuzzy logic, identification and predictive control. **2005g:93001**
Filatov, N. M. (*with* Unbehauen, H.) ★ Adaptive dual control. **2005a:93004**
Fragoso, Marcelo D. *see* **Costa, Oswaldo L. V. et al., 2005i:93002**
Gelig, A. Kh. *see* **Yakubovich, V. A. et al., 2005i:93004**
Goodwin, Graham C. (*with* Serón, María M.; De Doná, José A.) ★ Constrained control and estimation. **2005c:93001**
Goto, Satoru *see* **Nakamura, Masatoshi[2] et al.**
Hasegawa, Yasumichi *see* **Matsuo, Tsuyoshi, 2005a:93005**
Hashem, M. M. A. *see* **Watanabe, Keigo, 2005c:93003**
Hinrichsen, Diederich (*with* Pritchard, Anthony J.) ★ Mathematical systems theory. I. **2005j:93001**
Krabs, Werner (*with* Pickl, Stefan Wolfgang) ★ Analysis, controllability and optimization of time-discrete systems and dynamical games. **2005b:93003**
Kwon, S. J. (*with* Chung, Wan Kyun) ★ Perturbation compensator based robust tracking control and state estimation of mechanical systems. **2005d:93002**
Kyura, N. *see* **Nakamura, Masatoshi[2] et al.**
Leonov, G. A. *see* **Yakubovich, V. A. et al., 2005i:93004**
Li, Zhengguo (*with* Soh, Yeng Chai; Wen, Changyun) ★ Switched and impulsive systems. **2005k:93001**
Lyons, Terry (*with* Qian, Zhongmin) ★ System control and rough paths. **2005f:93001**
Mackenroth, Uwe ★ Robust control systems. **2005c:93002**
Mahmoud, Magdi S. ★ Resilient control of uncertain dynamical systems. **2005b:93004**
Maksimov, Vyacheslav I. ★ Dynamical inverse problems of distributed systems. **2005j:93002**
Marques, R. P. *see* **Costa, Oswaldo L. V. et al., 2005i:93002**
Matsuo, Tsuyoshi (*with* Hasegawa, Yasumichi) ★ Realization theory of discrete-time dynamical systems. **2005a:93005**
(Megretskiĭ, A. V.) *see* **Unsolved problems in mathematical systems and control theory, 2005g:93002**
Mel′nik, V. S. *see* **Zgurovskiĭ, M. Z., 2005e:93001**
Nakamura, Masatoshi[2] (*with* Goto, Satoru; Kyura, N.) ★ Mechatronic servo system control.
Nebylov, A. V. ★ Ensuring control accuracy. **2005b:93005**
Øksendal, Bernt K. (*with* Sulem, Agnès) ★ Applied stochastic control of jump diffusions. **2005i:93003**
Pickl, Stefan Wolfgang *see* **Krabs, Werner, 2005b:93003**
Pritchard, Anthony J. *see* **Hinrichsen, Diederich, 2005j:93001**
Qian, Zhongmin *see* **Lyons, Terry, 2005f:93001**
Rosier, Lionel *see* **Bacciotti, Andrea, 2005m:93001**
Sachkov, Yu. L. *see* **Agrachev, Andrei A., 2005b:93002**
Serón, María M. *see* **Goodwin, Graham C. et al., 2005c:93001**
Sethi, Suresh P. (*with* Zhang, Han Qin; Zhang, Qing[1]) ★ Average-cost control of stochastic manufacturing systems. **2005k:93002**
Soh, Yeng Chai *see* **Li, Zhengguo et al., 2005k:93001**
Soner, H. Mete ★ Stochastic optimal control in finance. **2005m:93002**
Sulem, Agnès *see* **Øksendal, Bernt K., 2005i:93003**
Tempo, Roberto (*with* Calafiore, Giuseppe; Dabbene, Fabrizio) ★ Randomized algorithms for analysis and control of uncertain systems. **2005m:93003**
Touzi, Nizar ★ Stochastic control problems, viscosity solutions and application to finance. **2005h:93001**
Unbehauen, H. *see* **Filatov, N. M., 2005a:93004**
Vandewalle, Joos *see* **Espinosa, Jairo et al., 2005g:93001**
(Vidyasagar, M.) *see* **Tempo, Roberto et al., 2005m:93003**
(Voronka, R. O.) *see* **Zgurovskiĭ, M. Z., 2005e:93001**
Watanabe, Keigo (*with* Hashem, M. M. A.) ★ Evolutionary computations. **2005c:93003**
Wen, Changyun *see* **Li, Zhengguo et al., 2005k:93001**
Wertz, Vincent *see* **Espinosa, Jairo et al., 2005g:93001**
Yakubovich, V. A. (*with* Leonov, G. A.; Gelig, A. Kh.) ★ Stability of stationary sets in control systems with discontinuous nonlinearities. **2005i:93004**
Zgurovskiĭ, M. Z. (*with* Mel′nik, V. S.) ★ Nonlinear analysis and control of physical processes and fields. **2005e:93001**
Zhang, Han Qin *see* **Sethi, Suresh P. et al., 2005k:93002**
Zhang, Qing[1] *see* **Sethi, Suresh P. et al., 2005k:93002**
(Zhang, Tao[1]) *see* **Nakamura, Masatoshi[2] et al.**

Items listed otherwise than by author

Encyclopaedia of Mathematical Sciences *see* **Agrachev, Andrei A., 2005b:93002**
Lecture Notes in Control and Information Sciences *see* **Filatov, N. M., 2005a:93004; Matsuo, Tsuyoshi, 2005a:93005; Mahmoud, Magdi S., 2005b:93004; Nebylov, A. V., 2005b:93005; Kwon, S. J., 2005d:93002; Li, Zhengguo et al., 2005k:93001** *and* **Nakamura, Masatoshi[2] et al.**
Lecture Notes in Economics and Mathematical Systems *see* **Krabs, Werner, 2005b:93003**
Unsolved problems in mathematical systems and control theory ★ Unsolved problems in mathematical systems and control theory. **2005g:93002**

Items with secondary classifications in 93–02

(Akhobadze, Kh.) *see* **Mdzinarishvili, V. V., 2005c:93108**
Alla, Hassane *see* **David, René Marcel, 2005k:68148**
Allen, Jeffery C. ★ H^∞ engineering and amplifier optimization. **2005f:94173**
Angeli, David (*with* Sontag, Eduardo D.) Interconnections of monotone systems with steady-state characteristics. (English summary) **2005f:93132**
Antoulas, Athanasios C. *see* **Gugercin, Serkan, 2005a:93028**
Babichev, Aleksandr V. *see* **Butkovskiĭ, A. G., 2005j:93006**
Boccara, Nino ★ Modeling complex systems. **2005f:37186**
Boscain, Ugo (*with* Piccoli, Benedetto) ★ Optimal syntheses for control systems on 2-D manifolds. **2005m:49002**
Bullo, Francesco Trajectory design for mechanical control systems: from geometry to algorithms. (English summary) **2005c:70033**
Butkovskiĭ, A. G. (*with* Babichev, Aleksandr V.) Brief review of tasks and results of the program of creation of unified geometrical theory of control (UGTC). (English summary) **2005j:93006**
Colonius, Fritz (*with* Kliemann, Wolfgang) Bifurcations of control systems: a view from control flows. **2005e:93068**
Commault, Christian *see* **Dion, Jean-Michel et al., 2005k:93096**
David, René Marcel (*with* Alla, Hassane) ★ Discrete, continuous, and hybrid Petri nets. **2005k:68148**
Deĭneka, V. S. *see* **Sergienko, Ivan V., 2005j:49001**
Dion, Jean-Michel (*with* Commault, Christian; van der Woude, Jacob) Generic properties and control of linear structured systems: a survey. (English summary) **2005k:93096**
Emel′yanov, Stanislav Vasil′evich (*with* Korovin, Sergeĭ Konstantinovich) Observers and output differentiators in uncertain systems. (English summary) **2005e:93023**
Grancharova, Alexandra (*with* Johansen, Tor Arne) Explicit approaches to constrained model predictive control: a survey. (English summary) **2005h:93069**
Gugercin, Serkan (*with* Antoulas, Athanasios C.) A survey of model reduction by balanced truncation and some new results. (English summary) **2005a:93028**
Hermida-Alonso, José A. On linear algebra over commutative rings. **2005g:13001**
Johansen, Tor Arne *see* **Grancharova, Alexandra, 2005h:93069**
Kliemann, Wolfgang *see* **Colonius, Fritz, 2005e:93068**
Korovin, Sergeĭ Konstantinovich *see* **Emel′yanov, Stanislav Vasil′evich, 2005e:93023**
Mdzinarishvili, V. V. ★ New functional methods and objects in the theory of approximation, modelling, and optimal control. **2005c:93108**
Morrison, Ronald W. ★ Designing evolutionary algorithms for dynamic environments. **2005b:90005**
Oudet, Édouard ★ Quelques résultats en optimisation de forme et stabilisation. (French) [Some results in shape optimization and stabilization] **2005g:49072**
Piccoli, Benedetto *see* **Boscain, Ugo, 2005m:49002**
Richard, Jean-Pierre Time-delay systems: an overview of some recent advances and open problems. (English summary) **2005k:93112**
Rifford, Ludovic The stabilization problem: AGAS and SRS feedbacks. **2005d:93116**
Rutkowski, Leszek ★ Flexible neuro-fuzzy systems. **2005f:68143**
Sergienko, Ivan V. (*with* Deĭneka, V. S.) ★ Optimal control of distributed systems with conjugation conditions. **2005j:49001**
(Silva, Manuel) *see* **David, René Marcel, 2005k:68148**
Sontag, Eduardo D. *see* **Angeli, David, 2005f:93132**
Vorotnikov, V. I. Partial stability and control: the current state of the problem and future trends. (Russian. Russian summary) **2005k:93157**
van der Woude, Jacob *see* **Dion, Jean-Michel et al., 2005k:93096**
(Zadeh, Lotfi A.) *see* **Rutkowski, Leszek, 2005f:68143**
Zhang, Xu[1] (*with* Zuazua, Enrique) Controllability of nonlinear partial differential equations. (English summary) **2005e:93020**
Zuazua, Enrique *see* **Zhang, Xu[1], 2005e:93020**

93–03 Historical (must also be assigned at least one classification number from Section 01)

Bacciotti, Andrea Stability and control: the contributions of Maxwell. (Italian. English and Italian summaries)
Bissell, Chris Models and "black boxes": mathematics as an enabling technology in the history of communications and control engineering. (English and French summaries)
Chikrii, Arkadii A. *see* **Kuntsevich, V. M.**
Fernández Cara, Enrique (*with* Zuazua, Enrique) On the history and perspectives of control theory. (English summary) **2005c:93004**
Kuntsevich, V. M. (*with* Chikrii, Arkadii A.) Controlled processes—research methods and applications. (Russian. English and Ukrainian summaries)
(Maxwell, James Clerk) *see* **Bacciotti, Andrea**
Zuazua, Enrique *see* **Fernández Cara, Enrique**, **2005c:93004**

Items with secondary classifications in 93–03

Grzymkowski, Radosław *see* **Klamka, Jerzy et al.**, (**2005b:01052**)
Klamka, Jerzy (*with* Grzymkowski, Radosław; Świerniak, Andrzej) Applied mathematics in Gliwice. (Polish. Polish summary) (*see* **2005b:01052**)
Świerniak, Andrzej *see* **Klamka, Jerzy et al.**, (**2005b:01052**)

93–04 Explicit machine computation and programs (not the theory of computation or programming)

Henrion, Didier (*with* Lasserre, Jean-Bernard) Detecting global optimality and extracting solutions in GloptiPoly. (English summary) **2005j:93003**
Lasserre, Jean-Bernard *see* **Henrion, Didier**, **2005j:93003**
Papachristodoulou, Antonis *see* **Prajna, Stephen et al.**, **2005j:93004**
Parrilo, Pablo A. *see* **Prajna, Stephen et al.**, **2005j:93004**
Prajna, Stephen (*with* Papachristodoulou, Antonis; Seiler, Peter; Parrilo, Pablo A.) SOSTOOLS and its control applications. (English summary) **2005j:93004**
Seiler, Peter *see* **Prajna, Stephen et al.**, **2005j:93004**

Items with secondary classifications in 93–04

Stefani, Gianna (*with* Zezza, PierLuigi) Time optimality of a bang-bang trajectory with Maple. (English summary) (*see* **2005b:93007**)
Zezza, PierLuigi *see* **Stefani, Gianna**, (**2005b:93007**)

93–06 Proceedings, conferences, collections, etc.

(Abdallah, Chaouki T.) *see* **Advances in communication control networks**, **2005g:93003**
Antsaklis, Panos J. (*with* Baillieul, John) Guest editorial. Special issue on networked control systems.
(Astolfi, Alessandro) *see* **Lagrangian and Hamiltonian methods for nonlinear control 2003**, **2005b:93007**
Baillieul, John *see* **Antsaklis, Panos J.**
(Cagnol, John) *see* **Control and boundary analysis**, **2005m:93004**
(Chiasson, John) *see* **Advances in communication control networks**, **2005g:93003**
Dong, Zhao Yang *see* **Wong, Kit Po**
Gałkowski, K. (*with* Vinnikov, Victor) Guest editorial [Multidimensional control systems: theory with a view to applications].
(Garulli, Andrea) *see* **Positive polynomials in control**, **2005i:93005**
(Gordillo, Francisco) *see* **Lagrangian and Hamiltonian methods for nonlinear control 2003**, **2005b:93007**
(Gu, Keqin) *see* **Advances in time-delay systems**, **2005d:93003**
(Henrion, Didier) *see* **Positive polynomials in control**, **2005i:93005**
(Kumar, Vijay[5]) *see* **Cooperative control**, **2005g:93004**
(Lamnabhi-Lagarrigue, Françoise) *see* **Advanced topics in control systems theory**, **2005j:93005**
(Leitmann, George) *see* **Dynamical systems and control**, **2005b:93006**
(Leonard, Naomi Ehrich) *see* **Cooperative control**, **2005g:93004**
Lewis, Frank L. *see* **Narendra, Kumpati S.**
(Loría, Antonio) *see* **Advanced topics in control systems theory**, **2005j:93005**
(Morse, A. Stephen) *see* **Cooperative control**, **2005g:93004**
Narendra, Kumpati S. (*with* Lewis, Frank L.) Editorial [Special issue on neural network feedback control].
Nguang, Sing Kiong (*with* Shi, Peng) Editorial: [Stability analysis and synthesis for time delay stochastic nonlinear systems].
(Niculescu, Silviu-Iulian) *see* **Advances in time-delay systems**, **2005d:93003**
Ortega, Romeo *see* **Shen, Tie Long et al.**
(Panteley, Elena) *see* **Advanced topics in control systems theory**, **2005j:93005**
Saberi, Ali *see* **Stoorvogel, Anton A.**
(van der Schaft, A. J.) *see* **Lagrangian and Hamiltonian methods for nonlinear control 2003**, **2005b:93007**
Shen, Tie Long (*with* Sun, Yuan Zhang; Ortega, Romeo) Editorial: Special issue on robust and nonlinear control of power systems.
Shi, Peng *see* **Nguang, Sing Kiong**
(Sivasundaram, S.) *see* **Advances in dynamics and control**, **2005c:93005**
Stoorvogel, Anton A. (*with* Saberi, Ali) Editorial: The challenge of constraints [Special issue on control of linear systems subject to hard constraints].
Sun, Yuan Zhang *see* **Shen, Tie Long et al.**
(Tarbouriech, Sophie) *see* **Advances in communication control networks**, **2005g:93003**
Udwadia, Firdaus E. Preface [Special issue: 12th International Workshop on Dynamics and Control].
— *see also* **Dynamical systems and control**, **2005b:93006**
Vinnikov, Victor *see* **Gałkowski, K.**
(Weber, Hans Ingo) *see* **Dynamical systems and control**, **2005b:93006**
Wong, Kit Po (*with* Dong, Zhao Yang) Special issue on evolutionary computation for systems and control applications.
(Zolésio, Jean-Paul) *see* **Control and boundary analysis**, **2005m:93004**

Items listed otherwise than by author

Advanced topics in control systems theory ★ Advanced topics in control systems theory. **2005j:93005**
Advances in communication control networks ★ Advances in communication control networks. **2005g:93003**
Advances in dynamics and control ★ Advances in dynamics and control. **2005c:93005**
Advances in time-delay systems ★ Advances in time-delay systems. **2005d:93003**
Control and boundary analysis ★ Control and boundary analysis. **2005m:93004**
Cooperative control ★ Cooperative control. **2005g:93004**
Dynamical systems and control ★ Dynamical systems and control. **2005b:93006**
Lagrangian and Hamiltonian methods for nonlinear control 2003 ★ Lagrangian and Hamiltonian methods for nonlinear control 2003. **2005b:93007**
Lecture Notes in Control and Information Sciences ★ Advances in communication control networks. **2005g:93003**
— ★ Cooperative control. **2005g:93004**
— ★ Positive polynomials in control. **2005i:93005**
— ★ Advanced topics in control systems theory. **2005j:93005**
Paris ★ Advanced topics in control systems theory. **2005j:93005**
Positive polynomials in control ★ Positive polynomials in control. **2005i:93005**
Rio de Janeiro ★ Dynamical systems and control. **2005b:93006**
Seville ★ Lagrangian and Hamiltonian methods for nonlinear control 2003. **2005b:93007**
Sophia Antipolis ★ Control and boundary analysis. **2005m:93004**

Items with secondary classifications in 93–06

Agrawal, Om Prakash (*with* Tenreiro Machado, J. A.; Sabatier, Jocelyn) Introduction [Special issue on fractional derivatives and their applications].
(Blondel, Vincent D.) *see* **Unsolved problems in mathematical systems and control theory**, **2005g:93002**
(Evtushenko, Yurĭ Gavrilovich) *see* **Moiseev, Nikita Nikolaevich**
(Flerov, Yu. A.) *see* **Moiseev, Nikita Nikolaevich**
(Gong, Weibo) *see* **Modeling, control and optimization of complex systems**, **2005a:00024**
(Ho, Yu-Chi) *see* **Modeling, control and optimization of complex systems**, **2005a:00024**
(Malisoff, Michael) *see* **Optimal control, stabilization and nonsmooth analysis**, **2005b:49001**
(Megretskiĭ, A. V.) *see* **Unsolved problems in mathematical systems and control theory**, **2005g:93002**
Moiseev, Nikita Nikolaevich ★ Избранные труды. 1. (Russian) [Selected works. 1]
— ★ Избранные труды. 2. (Russian) [Selected works. 2]
(Parkhomenko, V. P.) *see* **Moiseev, Nikita Nikolaevich**
(Pavlovskiĭ, Yu. N.) *see* **Moiseev, Nikita Nikolaevich**
(Petrov, Aleksandr Aleksandrovich) *see* **Moiseev, Nikita Nikolaevich**
(de Queiroz, Marcio Santos) *see* **Optimal control, stabilization and nonsmooth analysis**, **2005b:49001**
Sabatier, Jocelyn *see* **Agrawal, Om Prakash et al.**
(Shi, Leyuan) *see* **Modeling, control and optimization of complex systems**, **2005a:00024**
(Tarko, A. M.) *see* **Moiseev, Nikita Nikolaevich**
Tenreiro Machado, J. A. *see* **Agrawal, Om Prakash et al.**
(Ter-Krikorov, A. M.) *see* **Moiseev, Nikita Nikolaevich**
(Wolenski, Peter R.) *see* **Optimal control, stabilization and nonsmooth analysis**, **2005b:49001**

Items listed otherwise than by author

Baton Rouge, LA ★ Optimal control, stabilization and nonsmooth analysis. **2005b:49001**
Bibliography:
Moiseev, Nikita Nikolaevich *see* **Moiseev, Nikita Nikolaevich**
Biography:
Moiseev, Nikita Nikolaevich *see* **Moiseev, Nikita Nikolaevich**
Cambridge, MA ★ Modeling, control and optimization of complex systems. **2005a:00024**
Collected Works:
Moiseev, Nikita Nikolaevich *see* **Moiseev, Nikita Nikolaevich**
Lecture Notes in Control and Information Sciences ★ Optimal control, stabilization and nonsmooth analysis. **2005b:49001**
Modeling, control and optimization of complex systems ★ Modeling, control and optimization of complex systems. **2005a:00024**
Optimal control, stabilization and nonsmooth analysis ★ Optimal control, stabilization and nonsmooth analysis. **2005b:49001**
Unsolved problems in mathematical systems and control theory ★ Unsolved problems in mathematical systems and control theory. **2005g:93002**

93Axx General

93A05 Axiomatic system theory

Babichev, Aleksandr V. *see* **Butkovskiĭ, A. G.**, **2005j:93006**
Butkovskiĭ, A. G. (*with* Babichev, Aleksandr V.) Brief review of tasks and results of the program of creation of unified geometrical theory of control (UGTC). (English summary) **2005j:93006**
Lerner, V. S. Introduction to information systems theory: concepts, formalism and applications. (English summary)
— Corrigendum: "Introduction to information systems theory: concepts, formalism and applications" [Internat. J. Systems Sci. **35** (2004), no. 7, 405–424; MR2080974].

Items with secondary classifications in 93A05

Barkaline, Viatcheslav V. *see* **Miklashevich, Ihar A.**, **2005k:93004**
Jacob, Birgit (*with* Zwart, Hans) Counterexamples concerning observation operators for C_0-semigroups. (English summary) **2005f:93086**
Miklashevich, Ihar A. (*with* Barkaline, Viatcheslav V.) Mathematical representations of the dynamics of social system. I. General description. (English summary) **2005k:93004**
Predoi, Maria La deuxième méthode pour l'instabilité discrète. (French summary) [The second method for determining discrete instability] **2005j:93054**

Voutsadakis, George The categories of finitary binary functions and finite automata networks. (English summary) **2005j:18003**
Wang, Long[1] *see* **Xie, Dongmei et al., 2005a:39009**
Xie, Dongmei (*with* Xie, Guangming[1]; Wang, Long[1]) Complete characterization of quadratic Lyapunov functions for planar discrete systems. (English summary) **2005a:39009**
Xie, Guangming[1] *see* **Xie, Dongmei et al., 2005a:39009**
Zwart, Hans *see* **Jacob, Birgit, 2005f:93086**

93A10 General systems

Fujii, Takao *see* **Kaneko, Osamu, 2005e:93002**
Kaneko, Osamu (*with* Fujii, Takao) When is a storage function a state function in discrete time? (English summary) **2005e:93002**
Kozyakin, V. S. A short introduction to asynchronous systems. (English summary) **2005e:93003**
Rapisarda, Paolo (*with* Trentelman, H. L.) Linear Hamiltonian behaviors and bilinear differential forms. (English summary) **2005k:93003**
Trentelman, H. L. *see* **Rapisarda, Paolo, 2005k:93003**
Vlad, Serban E. Asynchronous pseudo-systems. (English summary)

Items with secondary classifications in 93A10

de Alfaro, Luca (*with* Henzinger, Thomas A.; Majumdar, Rupak) Discounting the future in systems theory. (English summary) **2005c:90107**
Babichev, Aleksandr V. (*with* Butkovskiĭ, A. G.) Hierarchy of control structures and of optimal control. (Russian. Russian summary)
Butkovskiĭ, A. G. *see* **Babichev, Aleksandr V.**
Henzinger, Thomas A. *see* **de Alfaro, Luca et al., 2005c:90107**
Majumdar, Rupak *see* **de Alfaro, Luca et al., 2005c:90107**
Mikrin, E. A. *see* **Zhukovskaya, L. V., 2005d:90061**
Zhukovskaya, L. V. (*with* Mikrin, E. A.) A new approach to the estimation of the effectiveness of control decisions under risk conditions in automatic control systems. (Russian. Russian summary) **2005d:90061**
— (*with* Mikrin, E. A.) A new approach to risk estimation in multicriterial automatic control systems. II. (Russian. Russian summary)

93A13 Hierarchical systems

Barkaline, Viatcheslav V. *see* **Miklashevich, Ihar A., 2005k:93004**
Bogatyrev, V. D. A mechanism for the control of interaction in a one-level organizational system. (Russian. Russian summary) **2005m:93005**
Li, Rui Bo *see* **Zheng, Pi E et al.**
Liu, Guo Hong *see* **Zheng, Pi E et al.**
Miklashevich, Ihar A. (*with* Barkaline, Viatcheslav V.) Mathematical representations of the dynamics of social system. I. General description. (English summary) **2005k:93004**
Zhao, Yu Chao *see* **Zheng, Pi E et al.**
Zheng, Pi E (*with* Zhao, Yu Chao; Liu, Guo Hong; Li, Rui Bo) Hierarchical optimization method for a class of nonlinear bilevel programming problems. (Chinese. English and Chinese summaries)

Items with secondary classifications in 93A13

(Cury, José E. R.) *see* **Gaudin, B., 2005m:93094**
Gaudin, B. (*with* Marchand, Hervé) Supervisory control of product and hierarchical discrete event systems. (English summary) **2005m:93094**
Lu, Jie[2] *see* **Shi, Chenggen et al., 2005f:91041**
Marchand, Hervé *see* **Gaudin, B., 2005m:93094**
(de Queiroz, Max H.) *see* **Gaudin, B., 2005m:93094**
Shi, Chenggen (*with* Zhang, Guang-Quan; Lu, Jie[2]) On the definition of linear bilevel programming solution. (English summary) **2005f:91041**
— (*with* Lu, Jie[2]; Zhang, Guang-Quan) An extended Kth-best approach for linear bilevel programming. (English summary)
Voronin, A. N. Vector optimization of hierarchical structures. (Russian. English, Russian and Ukrainian summaries)
Zhang, Guang-Quan *see* **Shi, Chenggen et al., 2005f:91041**

93A14 Decentralized systems

Aghdam, Amir G. (*with* Davison, Edward Joseph) Pseudo-decentralized switching control. (English summary)
Akar, Mehmet (*with* Özgüner, Ümit) Decentralized sliding mode control design using overlapping decompositions. (English summary)
Altunel, Haluk *see* **Sezer, M. Erol, 2005a:93006**
Bamieh, Bassam *see* **Jovanović, Mihailo R., 2005i:93006**
Dai, Guan-Zhong *see* **Zhang, Qing Ling et al., 2005b:93008**
Davison, Edward Joseph *see* **Aghdam, Amir G.**
Edwards, Christopher *see* **Yan, Xing Gang et al., 2005f:93002**
Egerstedt, Magnus B. *see* **Muhammad, Abubakr, (2005g:93004)**
Goldman, Claudia V. (*with* Zilberstein, Shlomo) Decentralized control of cooperative systems: categorization and complexity analysis. (English summary) **2005j:93007**
Gu, Hai Jun *see* **Zhang, Tian Ping[1] et al.**
Ha, Q. P. (*with* Trinh, H.) Observer-based control of multi-agent systems under decentralized information structure. (English summary)
Ho, Yu-Chi On centralized optimal control.
Hou, Zeng-Guang A hierarchical optimization neural network for large-scale dynamic systems. (English summary)
Ikeda, Masao (*with* Zhai, Guisheng; Uezato, Eiho) Centralized design of decentralized controllers for interconnected descriptor systems. (English summary) **2005h:93002**
İnalhan, Gökhan *see* **Stipanović, Dušan M. et al.**
Jiang, Zhong-Ping Decentralized disturbance attenuating output-feedback trackers for large-scale nonlinear systems. (English summary)
— *see also* **Lee, Ti-Chung**
Jovanović, Mihailo R. (*with* Bamieh, Bassam) Lyapunov-based distributed control of systems on lattices. (English summary) **2005i:93006**
Khorrami, Farshad *see* **Krishnamurthy, Prashanth**
Krishnamurthy, Prashanth (*with* Khorrami, Farshad) Decentralized control and disturbance attenuation for large-scale nonlinear systems in generalized output-feedback canonical form. (English summary)
Lee, Ti-Chung (*with* Jiang, Zhong-Ping) New cascade approach for global κ-exponential tracking of underactuated ships. (English summary)
Lewin, D. R. (*with* Parag, A.) A constrained genetic algorithm for decentralized control system structure selection and optimization. (English summary)
Li, Xiaohong *see* **Yuan, Zhong Hu et al.**
Liu, Wan Quan *see* **Wang, Jing[12] et al.**
Muhammad, Abubakr (*with* Egerstedt, Magnus B.) Decentralized coordination with local interactions: some new directions. (English summary) (*see* **2005g:93004**)
Özgüner, Ümit *see* **Akar, Mehmet** *and* **Xu, Lu[1]**
Parag, A. *see* **Lewin, D. R.**
Parsheva, E. A. Adaptive decentralized control of multiply connected plants with control delay. (Russian. Russian summary) **2005g:93005**
Pavlovskiĭ, Yu. N. On decomposition structures of mathematical objects. (Russian)
Ren, Baili *see* **Yuan, Zhong Hu et al.**
Sezer, M. Erol (*with* Altunel, Haluk) Adaptive decentralized control of interconnected systems. (English summary) **2005a:93006**
Šiljak, Dragoslav D. *see* **Stanković, Srdjan S., 2005d:93004** *and* **Zečević, Aleksandar I., 2005k:93005**
Spurgeon, Sarah K. *see* **Yan, Xing Gang et al., 2005f:93002**
Stanković, Srdjan S. (*with* Šiljak, Dragoslav D.) Contractibility of overlapping decentralized control. (English summary) **2005d:93004**
Stipanović, Dušan M. (*with* İnalhan, Gökhan; Teo, Rodney; Tomlin, Claire J.) Decentralized overlapping control of a formation of unmanned aerial vehicles. (English summary)
Teo, Rodney *see* **Stipanović, Dušan M. et al.**
Tomlin, Claire J. *see* **Stipanović, Dušan M. et al.**
Trinh, H. *see* **Ha, Q. P.**
Tripakis, Stavros Decentralized control of discrete-event systems with bounded or unbounded delay communication. (English summary) **2005c:93006**
Uezato, Eiho *see* **Ikeda, Masao et al., 2005h:93002**
Wang, Jing[12] (*with* Zhang, Qing Ling; Liu, Wan Quan) A criterion for finite fixed modes in singular symmetric systems. (Chinese. English and Chinese summaries)
Xu, Lu[1] (*with* Özgüner, Ümit) Static reference input distribution with principle of optimality in decentralized servomechanism problem. (English summary)
Yan, Xing Gang (*with* Spurgeon, Sarah K.; Edwards, Christopher) Decentralized output feedback sliding mode control of nonlinear large-scale systems with uncertainties. (English summary) **2005f:93002**
Yi, Yang *see* **Zhang, Tian Ping[1] et al.**
Yuan, Zhong Hu (*with* Li, Xiaohong; Ren, Baili) Design of decentralized generalized state observer. (English summary)
Zečević, Aleksandar I. (*with* Šiljak, Dragoslav D.) Global low-rank enhancement of decentralized control for large-scale systems. (English summary) **2005k:93005**
Zhai, Guisheng *see* **Ikeda, Masao et al., 2005h:93002**
Zhang, Qing Ling (*with* Zhang, Xiu Hua; Dai, Guan-Zhong) Linearizing approach to decentralized controllability. (English summary) **2005b:93008**
— *see also* **Wang, Jing[12] et al.**
Zhang, Tian Ping[1] (*with* Gu, Hai Jun; Yi, Yang) Decentralized hybrid adaptive intelligent control of nonlinear interconnected systems. (Chinese. English and Chinese summaries)
Zhang, Xiu Hua *see* **Zhang, Qing Ling et al., 2005b:93008**
Zhao, Zhiwu The maximum rank of the matrix pencil $E + \sum B_i K_i C_i$ and its applications. (English summary) **2005e:93004**
Zilberstein, Shlomo *see* **Goldman, Claudia V., 2005j:93007**

Items with secondary classifications in 93A14

Bandyopadhyay, B. *see* **Gupta, Rajeev et al.**
Bernussou, Jacques *see* **Garcia, Germain et al.**
Bi, Wei Ping (*with* Tong, Wei Wei; Chen, Yong Gang) Robust H_∞ adaptive control for uncertain nonlinear cascade systems. (Chinese. English and Chinese summaries)
Bi, Zhenfu (*with* Wang, Fusheng) Stabilization of multiple independent linear systems with control networks. (English summary)
Bien, Zeungnam *see* **Ruan, Xiaoe et al.**
de Castro, Gustavo Ayres (*with* Paganini, Fernando) Convex synthesis of localized controllers for spatially invariant systems. (English summary)
Chen, Guanrong *see* **Guan, Zhi Hong et al.**
Chen, Tzer-Shyong (*with* Huang, Jen-Yan) A novel key management scheme for dynamic access control in a user hierarchy. (English summary)
Chen, Yong Gang *see* **Bi, Wei Ping et al.**
Cheng, Xin Ming (*with* Guan, Zhi Hong; Liu, Xin Zhi) Control of the decentralized guaranteed cost for a class of impulsive uncertain composite systems. (Chinese. English and Chinese summaries)
Daafouz, Jamal *see* **Garcia, Germain et al.**
D'Andrea, Raffaello *see* **Recht, Benjamin, 2005c:93022** *and* **Dullerud, Geir E., 2005h:93108**
Dechanupaprittha, Sanchai *see* **Ngamroo, Issarachai, 2005h:93152**
Dullerud, Geir E. (*with* D'Andrea, Raffaello) Distributed control of heterogeneous systems. (English summary) **2005h:93108**
Edwards, Christopher *see* **Yan, Xing Gang et al.**
Garcia, Germain (*with* Daafouz, Jamal; Bernussou, Jacques) The infinite time near optimal decentralized regulator problem for singularly perturbed systems: a convex optimization approach. (English summary)
Gazi, Veysel Formation control of a multi-agent system using non-linear servomechanism. (English summary) **2005m:93056**
Guan, Zhi Hong (*with* Chen, Guanrong; Yu, Xinghuo; Qin, Yi) Robust decentralized stabilization for a class of large-scale time-delay uncertain impulsive dynamical systems. (English summary)

— *see also* **Cheng, Xin Ming et al.**
Gupta, Rajeev (*with* Bandyopadhyay, B.; Kulkarni, A. M.) Robust decentralized fast-output sampling technique based power system stabilizer for a multi-machine power system. (English summary)
Haftka, Raphael T. (*with* Watson, Layne T.) Multidisciplinary design optimization with quasiseparable subsystems. (English summary) **2005h:90130**
Huang, Jen-Yan *see* **Chen, Tzer-Shyong**
Izumi, Kiyotaka *see* **Yang, Xin et al.**
Jin, Chao Yong (*with* Zhang, Xiang Wei) On decentralized stabilization of linear large scale systems with symmetric circulant structure. (Chinese. English and Chinese summaries) **2005m:93069**
Kiguchi, Kazuo *see* **Yang, Xin et al.**
Kulkarni, A. M. *see* **Gupta, Rajeev et al.**
Laptin, Yu. P. Decomposition by variables for some optimization problems. (Russian. English and Ukrainian summaries) **2005m:90083**
Liu, Xin Zhi *see* **Cheng, Xin Ming et al.**
Mukaidani, Hiroaki An LMI approach to decentralized guaranteed cost control for a class of uncertain nonlinear large-scale delay systems. (English summary) **2005f:93054**
Ngamroo, Issarachai (*with* Dechanupaprittha, Sanchai) Robust decentralized design of power system stabilizers taking into consideration system uncertainties. (English summary) **2005h:93152**
Paganini, Fernando *see* **de Castro, Gustavo Ayres**
Park, Kwang-Hyun *see* **Ruan, Xiaoe et al.**
Pota, H. R. *see* **Ugrinovskiĭ, V. A.**
Qin, Yi *see* **Guan, Zhi Hong et al.**
Recht, Benjamin (*with* D'Andrea, Raffaello) Distributed control of systems over discrete groups. (English summary) **2005c:93022**
Ruan, Xiaoe (*with* Bien, Zeungnam; Park, Kwang-Hyun) Iterative learning controllers for discrete-time large-scale systems to track trajectories with distinct magnitudes. (English summary)
Spurgeon, Sarah K. *see* **Yan, Xing Gang et al.**
Thistle, J. G. Undecidability in decentralized supervision. (English summary) **2005k:93137**
Tong, Wei Wei *see* **Bi, Wei Ping et al.**
Ugrinovskiĭ, V. A. (*with* Pota, H. R.) Decentralized control of power systems via robust control of uncertain Markov jump parameter systems. (English summary)
Wang, Fusheng *see* **Bi, Zhenfu**
Wang, Rong-Jyue Nonlinear decentralized state feedback controller for uncertain fuzzy time-delay interconnected systems. (English summary)
Watanabe, Keigo *see* **Yang, Xin et al.**
Watson, Layne T. *see* **Haftka, Raphael T., 2005h:90130**
Wu, Zhao Jing (*with* Xie, Xue Jun; Zhang, Si Ying) Robust decentralized adaptive stabilization for a class of interconnected systems. (English summary) **2005f:93152**
Xie, Lihua *see* **Yan, Xing Gang**
Xie, Xue Jun *see* **Wu, Zhao Jing et al., 2005f:93152**
Yan, Xing Gang (*with* Xie, Lihua) Reduced-order control for a class of nonlinear similar interconnected systems with mismatched uncertainty. (English summary)
— (*with* Edwards, Christopher; Spurgeon, Sarah K.) Decentralised robust sliding mode control for a class of nonlinear interconnected systems by static output feedback. (English summary)
Yang, Xin (*with* Watanabe, Keigo; Izumi, Kiyotaka; Kiguchi, Kazuo) A decentralized control system for cooperative transportation by multiple non-holonomic mobile robots. (English summary)
Yu, Xinghuo *see* **Guan, Zhi Hong et al.**
Zhang, Qing Ling *see* **Zhu, Bao Yan et al.**
Zhang, Si Ying *see* **Wu, Zhao Jing et al., 2005f:93152**
Zhang, Xiang Wei *see* **Jin, Chao Yong, 2005m:93069**
Zhang, Xuefeng *see* **Zhu, Bao Yan et al.**
Zhong, Wan Xie The impulse influence function for de-centralized control. (English summary)
Zhu, Bao Yan (*with* Zhang, Qing Ling; Zhang, Xuefeng) Decentralized robust guaranteed cost control for uncertain T-S fuzzy interconnected systems with time delays. (English summary)
Zhukovskaya, L. V. An approach to risk formalization in decision making in automatic control systems. (Russian. Russian summary) **2005k:90143**

93A15 Large scale systems

Chellaboina, Vijaya-Sekhar *see* **Haddad, Wassim M. et al., 2005a:93008** *and* **2005g:93006**
De Decker, Y. (*with* Tsekouras, G. A.; Provata, A.; Erneux, Thomas; Nicolis, G.) Propagating waves in one-dimensional discrete networks of coupled units. (English summary) **2005e:93005**
Duan, Xiao Dong *see* **Han, Zhi Tao et al.**
Duan, Zhi-Sheng (*with* Huang, Lin[1]; Wang, Long[1]; Wang, Jin-Zhi) Some applications of small gain theorem to interconnected systems. (English summary) **2005a:93007**
Erneux, Thomas *see* **De Decker, Y. et al., 2005e:93005**
Haddad, Wassim M. (*with* Hui, Qing; Chellaboina, Vijaya-Sekhar; Nersesov, Sergey G.) Vector dissipativity theory for discrete-time large-scale nonlinear dynamical systems. **2005a:93008**
— (*with* Chellaboina, Vijaya-Sekhar; Nersesov, Sergey G.) Vector dissipativity theory and stability of feedback interconnections for large-scale non-linear dynamical systems. (English summary) **2005g:93006**
Han, Zhi Tao (*with* Duan, Xiao Dong; Zhang, Si Ying) A discriminatory condition for weak controllability of nonlinear large-scale systems. (Chinese. English and Chinese summaries)
Huang, Lin[1] *see* **Duan, Zhi-Sheng et al., 2005a:93007**
Hui, Qing *see* **Haddad, Wassim M. et al., 2005a:93008**
Nersesov, Sergey G. *see* **Haddad, Wassim M. et al., 2005a:93008** *and* **2005g:93006**
Nicolis, G. *see* **De Decker, Y. et al., 2005e:93005**
Provata, A. *see* **De Decker, Y. et al., 2005e:93005**
Šiljak, Dragoslav D. *see* **Zečević, Aleksandar I., 2005g:93007** *and* **2005j:93008**
Tsekouras, G. A. *see* **De Decker, Y. et al., 2005e:93005**
Wang, Jin-Zhi *see* **Duan, Zhi-Sheng et al., 2005a:93007**
Wang, Long[1] *see* **Duan, Zhi-Sheng et al., 2005a:93007**
Zečević, Aleksandar I. (*with* Šiljak, Dragoslav D.) Design of robust static output feedback for large-scale systems. (English summary) **2005g:93007**
— (*with* Šiljak, Dragoslav D.) Control of large-scale systems in a multiprocessor environment. (English summary) **2005j:93008**
Zhang, Si Ying *see* **Han, Zhi Tao et al.**

Items with secondary classifications in 93A15

Brandys, Witold *see* **Duda, Zdzisław, 2005f:93176**
Chandra, Ramu Sharat *see* **Langbort, Cédric et al., 2005d:93054**
Chellaboina, Vijaya-Sekhar *see* **Haddad, Wassim M. et al., 2005b:34103**
D'Andrea, Raffaello *see* **Langbort, Cédric et al., 2005d:93054**
Duda, Zdzisław (*with* Brandys, Witold) Two-level stochastic control for a linear system with nonclassical information. (English summary) **2005f:93176**
Gelenbe, Erol Advances in modelling of complex systems: preface to the special issue.
Haddad, Wassim M. (*with* Chellaboina, Vijaya-Sekhar; Nersesov, Sergey G.) Thermodynamics and large-scale nonlinear dynamical systems: a vector dissipative systems approach. (English summary) **2005b:34103**
Keel, L. H. *see* **Sathananthan, S., 2005b:93157**
Langbort, Cédric (*with* Chandra, Ramu Sharat; D'Andrea, Raffaello) Distributed control design for systems interconnected over an arbitrary graph. (English summary) **2005d:93054**
Liao, Xiao Xin *see* **Liu, Xin Zhi, 2005c:93073**
Liu, Xin Zhi (*with* Liao, Xiao Xin) Comparison method and robust stability of large-scale dynamic systems. (English summary) **2005c:93073**
Martynyuk, A. A. Direct Liapunov's matrix functions method and overlapping decomposition of large scale systems. (English summary) **2005e:34149**
Nersesov, Sergey G. *see* **Haddad, Wassim M. et al., 2005b:34103**
Ruan, Xiaoe (*with* Wang, Jianguo; Wan, Bai Wu) Filter-based iterative learning control for linear large-scale industrial processes. (English summary)
Sasaki, Hirofumi *see* **Wang, Yongmao et al., 2005i:34063**
Sathananthan, S. (*with* Keel, L. H.) Connective practical stabilization of large-scale decentralized controlled stochastic systems. (English summary) **2005b:93157**
Shi, Yan *see* **Wang, Yongmao et al., 2005i:34063**
Wan, Bai Wu *see* **Ruan, Xiaoe et al.**
Wang, Jianguo *see* **Ruan, Xiaoe et al.**
Wang, Tie-Ying *see* **Wang, Yongmao, 2005g:34114**
Wang, Yongmao (*with* Wang, Tie-Ying) Sufficient conditions for stability of nonlinear time-varying dynamic system. (English summary) **2005g:34114**
— (*with* Shi, Yan; Sasaki, Hirofumi) A criterion for stability of nonlinear time-varying dynamic system. (English summary) **2005i:34063**
Wu, Zhao Jing (*with* Xie, Xue Jun; Zhang, Si Ying) Robust decentralized adaptive stabilization for a class of interconnected systems. (English summary) **2005f:93152**
Xie, Xue Jun *see* **Wu, Zhao Jing et al., 2005f:93152**
Zhang, Si Ying *see* **Wu, Zhao Jing et al., 2005f:93152**

93A30 Mathematical modeling (models of systems, model-matching, etc.)

Abdallah, Chaouki T. *see* **Birdwell, J. Douglas et al.,** (**2005d:93003**) *and* **Hayat, Majeed M. et al.,** (**2005d:93003**)
Adilov, G. R. (*with* Tinaztepe, G.) The asymptotic aggregation problem and the macrodescription of high dimensional systems. (English summary)
Amaral, Wagner C. *see* **Campello, Ricardo J. G. B. et al.**
Amharref, Mina *see* **Bernoussi, Abdes-Samed**
Åström, K. J. Modeling of complex systems. (English summary) (*see* **2005a:00024**)
Avila Vilchis, J. C. (*with* Brogliato, Bernard; Dzul, Alejandro; Lozano Leal, Rogelio) Nonlinear modelling and control of helicopters. (English summary)
Baker, Christopher T. H. (*with* Bocharov, G. A.; Paul, C. A. H.; Rihan, F. A.) Computational modelling with functional differential equations: identification, selection, and sensitivity. (English summary)
Bakhtadze, N. N. Virtual analyzers (an identification procedure). (Russian. Russian summary)
Baras, John S. *see* **Tan, Xiaobo**
Barbosa, Ramiro S. (*with* Tenreiro Machado, J. A.; Ferreira, Isabel M.) Describing function analysis of mechanical systems with nonlinear friction and backlash phenomena. (English summary) (*see* **2005b:93007**)
Bernoussi, Abdes-Samed (*with* Amharref, Mina) Étalabilité—vulnérabilité. (French summary) [Spreadability—vulnerability]
Bernstein, Dennis S. *see* **Oh, JinHyoung, 2005m:93006**
Bhikkaji, Bharath (*with* Mahata, Kaushik; Söderström, Torsten) Reduced order models for a two-dimensional heat diffusion system. (English summary) **2005g:93008**
Birdwell, J. Douglas (*with* Chiasson, John; Tang, Zhong; Abdallah, Chaouki T.; Hayat, Majeed M.; Wang, Tsewei) Dynamic time delay models for load balancing. I. Deterministic models. (English summary) (*see* **2005d:93003**)
— *see also* **Hayat, Majeed M. et al.,** (**2005d:93003**)
Bocharov, G. A. *see* **Baker, Christopher T. H. et al.**
Bouamama, Belkacem Ould *see* **Habbi, Hacene et al.**
Brogliato, Bernard *see* **Avila Vilchis, J. C. et al.**
Campello, Ricardo J. G. B. (*with* Favier, Gérard; Amaral, Wagner C.) Optimal expansions of discrete-time Volterra models using Laguerre functions. (English summary)
Cao, Guang Yi *see* **Wang, Zhen Bin et al.**
Chiasson, John *see* **Birdwell, J. Douglas et al.,** (**2005d:93003**) *and* **Hayat, Majeed M. et al.,** (**2005d:93003**)
Dautray, Robert (*with* Díaz Díaz, Jesús Ildefonso) Agir pour conserver l'environnement? Réflexions générales et analyse mathématique de deux problèmes concrets. [Acting to preserve the environment? General reflections and mathematical analysis of two concrete problems] (*see* **2005h:00013**)

Dhakal, Sagar *see* **Hayat, Majeed M. et al.**, (2005d:93003)
Díaz Díaz, Jesús Ildefonso *see* **Dautray, Robert**, (2005h:00013)
Dzul, Alejandro *see* **Avila Vilchis, J. C. et al.**
Ellerbroek, Brent L. Linear systems modeling of adaptive optics in the spatial-frequency domain. (English summary)
Favier, Gérard *see* **Campello, Ricardo J. G. B. et al.**
Ferreira, Isabel M. *see* **Barbosa, Ramiro S. et al.**, (2005b:93007)
Grünbaum, Daniel (*with* Viscido, Steven; Parrish, Julia K.) Extracting interactive control algorithms from group dynamics of schooling fish. (English summary) (*see* **2005g:93004**)
Gurman, V. I. (*with* Ukhin, M. Yu.) Models of control systems for practical optimization and estimation problems. (*see* **2005g:00019**)
Habbi, Hacene (*with* Zelmat, Mimoun; Bouamama, Belkacem Ould) A dynamic fuzzy model for a drum-boiler-turbine system. (English summary)
Hammer, Jacob Tracking and approximate model matching for non-linear systems. (English summary) **2005k:93006**
Hammi, Rim *see* **Raynaud, Henri-François et al.**, (2005g:93003)
Hayat, Majeed M. (*with* Dhakal, Sagar; Abdallah, Chaouki T.; Birdwell, J. Douglas; Chiasson, John) Dynamic time delay models for load balancing. II. A stochastic analysis of the effect of delay uncertainty. (English summary) (*see* **2005d:93003**)
— *see also* **Birdwell, J. Douglas et al.**, (2005d:93003)
Kiforenko, B. N. Some problems of modeling and optimization in the mechanics of space flight. (Russian. English and Ukrainian summaries)
Kostreva, Michael M. A mathematical model of a concurrent vehicle development system: estimating lead time. (English summary)
Krivonozhko, V. E. *see* **Volodin, A. V. et al.**, 2005d:93005
Kulcsár, Caroline *see* **Raynaud, Henri-François et al.**, (2005g:93003)
Liu, Xiao Dong[1] (*with* Zhang, Qing Ling) The fuzzy cognitive maps based on AFS fuzzy logic. (English summary)
Lozano Leal, Rogelio *see* **Avila Vilchis, J. C. et al.**
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Mahata, Kaushik *see* **Bhikkaji, Bharath et al.**, 2005g:93008
Mäkilä, Pertti M. (*with* Partington, Jonathan R.) On linear models for nonlinear systems. (English summary) **2005k:93007**
Oh, JinHyoung (*with* Bernstein, Dennis S.) Semilinear Duhem model for rate-independent and rate-dependent hysteresis. (English summary) **2005m:93006**
Osipov, Vladimir Mihajlovich (*with* Osipov, Vladimir Vladimirovich) Pointwise representation method. (English summary)
Osipov, Vladimir Vladimirovich *see* **Osipov, Vladimir Mihajlovich**
Parrish, Julia K. *see* **Grünbaum, Daniel et al.**, (2005g:93004)
Partington, Jonathan R. *see* **Mäkilä, Pertti M.**, 2005k:93007
Paul, C. A. H. *see* **Baker, Christopher T. H. et al.**
Pryadko, Irina N. On the Cauchy problem for systems containing locally explicit equations. (English summary) **2005i:93007**
Raynaud, Henri-François (*with* Kulcsár, Caroline; Hammi, Rim) State-space models for control and identification. (*see* **2005g:93003**)
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Ryzhikh, D. A. *see* **Volodin, A. V. et al.**, 2005d:93005
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Shi, Xin *see* **Scarf, Philip**, 2005k:93008
Shumilov, V. F. An analytic method for ensuring smooth dynamic loading in the solution of actual problems in the theory of mode interfacing control. (Russian. Russian summary)
Söderström, Torsten *see* **Bhikkaji, Bharath et al.**, 2005g:93008
Stoyan, V. A. *see* **Voloshchuk, S. D.**, 2005g:93009
Tan, Xiaobo (*with* Baras, John S.) Modeling and control of hysteresis in magnetostrictive actuators. (English summary)
Tang, Zhong *see* **Birdwell, J. Douglas et al.**, (2005d:93003)
Tenreiro Machado, J. A. *see* **Barbosa, Ramiro S. et al.**, (2005b:93007)
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Volodin, A. V. (*with* Krivonozhko, V. E.; Ryzhikh, D. A.; Utkin, O. B.) Construction of three-dimensional sections in the analysis of the efficiency of complex multidimensional systems, based on parametric optimization algorithms. (Russian. Russian summary) **2005d:93005**
Voloshchuk, S. D. (*with* Stoyan, V. A.) Optimization problems in modeling pointwise-controlled dynamical systems with distributed parameters. (Russian. English, Russian and Ukrainian summaries) **2005g:93009**
Wang, Fei Yue On the abstraction of conventional dynamic systems: from numerical analysis to linguistic analysis. (English summary)
Wang, Tsewei *see* **Birdwell, J. Douglas et al.**, (2005d:93003)
Wang, Zhen Bin (*with* Cao, Guang Yi; Zhu, Xin Jian) Application of fractional calculus in system modeling. (Chinese. English and Chinese summaries)
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Zelyk, Ya. I. (*with* Lychak, M. M.; Shevchenko, Vladimir Nikolaevich) Modeling and identifying controlled objects using the Interval-Set Analysis MATHLAB Toolbox. (Russian. English, Russian and Ukrainian summaries)
Zhang, Qing Ling *see* **Liu, Xiao Dong**[1]
Zhu, Xin Jian *see* **Wang, Zhen Bin et al.**

Items with secondary classifications in 93A30

Adli, Mehmet Arif *see* **Doğruel, M.**, 2005k:93129
Ahmed, N. U. (*with* Li, Cheng[2]) Optimum feedback strategy for access control mechanism modelled as stochastic differential equation in computer network. (English summary) **2005g:93077**
Al-Baiyat, Samir A. Model reduction of bilinear systems described by input-output difference equation. (English summary)
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Anderson, Brian D. O. *see* **Gevers, Michel et al.**, 2005k:93054 *and* 2005k:93055
Anguige, K. (*with* King, John Robert; Ward, John Peter; Williams, Paul) Mathematical modelling of therapies targeted at bacterial quorum sensing. (English summary) **2005k:92022**
Astrakov, S. N. (*with* Erzin, A. I.) A model of a self-regulating system. (Russian. English summary) **2005h:90142**
Aubin, Jean-Pierre Adaptive evolution of complex systems under uncertain environmental constraints: a viability approach. (English summary) (*see* **2005f:92001**)
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Baguley, Bruce C. *see* **Basse, Britta et al.**, 2005g:92017
Banks, H. T. (*with* Pinter, Gabriella A.) A probabilistic multiscale approach to hysteresis in shear wave propagation in biotissue. (English summary) **2005k:74058**
Barker, H. Anthony (*with* Tan, Ai Hui; Godfrey, Keith R.) Wiener models of direction-dependent dynamic systems. (English summary)
Barnes, Belinda (*with* Farquhar, G.; Gan, K. S.) Modelling the isotope enrichment of leaf water. (English summary) **2005d:92010**
Basse, Britta (*with* Baguley, Bruce C.; Marshall, Elaine S.; Joseph, Wayne R.; van Brunt, Bruce; Wake, Graeme; Wall, David J. N.) Modelling cell death in human tumour cell lines exposed to the anticancer drug paclitaxel. (English summary) **2005g:92017**
Bayón, L. (*with* Grau, J. M.; Ruiz, M. M.; Suárez Rodríguez, P.) New developments on equivalent thermal in hydrothermal optimization: an algorithm of approximation. (English summary)
Berckmans, D. *see* **Van Brecht, A. et al.**
Bermúdez de Castro, Alfredo Mathematical modelling in industry. (English summary) **2005j:00007**
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Decent, S. P. (*with* Wathan, J. C.; Brown, S. E.) Mathematical modelling in higher education social research. (English summary)
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Denis-Vidal, Lilianne (*with* Joly, Ghyslaine) Equivalence and identifiability analysis of uncontrolled nonlinear dynamical systems. (English summary) **2005m:93038**
Deshmukh, S. G. *see* **Jain, Vipul et al.**
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Farquhar, G. *see* **Barnes, Belinda et al.**, 2005d:92010
Fattouh, Anas (*with* Sename, Olivier) A model matching solution of robust observer design for time-delay systems. (English summary) **2005e:93024**
Finke, Jorge (*with* Passino, Kevin M.; Ganapathy, Sriram; Sparks, Andrew) Modeling and analysis of cooperative control systems for uninhabited autonomous vehicles. (English summary) (*see* **2005g:93004**)
Fleming, Andrew J. *see* **Moheimani, S. O. Reza et al.**, 2005h:74028
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Gelenbe, Erol Advances in modelling of complex systems: preface to the special issue.
George, Koshy *see* **Narendra, Kumpati S. et al.**, (2005a:00024)
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Gevers, Michel (*with* Bombois, Xavier; Codrons, Benoît; Scorletti, Gérard; Anderson, Brian D. O.) Model validation for control and controller validation in a prediction error identification framework. I. Theory. (English summary) **2005k:93054**
— (*with* Bombois, Xavier; Codrons, Benoît; Scorletti, Gérard; Anderson, Brian D. O.) Model validation for control and controller validation in a prediction error identification framework. II. Illustrations. (English summary) **2005k:93055**
— *see also* **Lecchini, Andrea**, 2005b:93047
Godfrey, Keith R. *see* **Barker, H. Anthony et al.**
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Gorinevskiĭ, D. M. *see* **Kammer, Leonardo C. et al.**
Granichin, O. N. (*with* Khantuleva, T. A.) Hybrid systems and randomized measuring in nonequilibrium processes. (English and Russian summaries)
Grau, J. M. *see* **Bayón, L. et al.**
Grocholsky, Ben *see* **Zhang, Fan et al.**, (2005g:93004)
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Halim, Dunant *see* **Moheimani, S. O. Reza et al.**, 2005h:74028
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Henzinger, Thomas A. (*with* Jhala, Ranjit; Majumdar, Rupak) Counterexample-guided control. (English summary) (*see* **2005b:68008**)
Hespanha, João P. (*with* Liberzon, Daniel; Morse, A. Stephen) Hysteresis-based switching algorithms for supervisory control of uncertain systems. (English summary)
Hiskens, Ian A. Power system modeling for inverse problems. (English summary)
Hua, Jean P. *see* **Rodríguez, Mauricio et al.**
Jain, Vipul (*with* Wadhwa, S.; Deshmukh, S. G.) e-commerce and supply chains: modelling of dynamics through fuzzy enhanced high level Petri net. (English summary)
Jhala, Ranjit *see* **Henzinger, Thomas A. et al.**, (2005b:68008)
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Joseph, Wayne R. *see* **Basse, Britta et al.**, 2005g:92017
Kammer, Leonardo C. (*with* Gorinevskiĭ, D. M.; Dumont, Guy A.) Semi-intrusive multivariable model invalidation. (English summary)
Kaneko, Osamu (*with* Rapisarda, Paolo; Takaba, K.) Totally dissipative systems. (English summary) **2005k:93150**
Karkach, A. S. *see* **Perelman, M. I. et al.**
Kazennykh, B. Ya. *see* **Perelman, M. I. et al.**
Khantuleva, T. A. *see* **Granichin, O. N.**
Khatir, Maziar E. (*with* Davison, Edward Joseph) Cooperative control of large systems. (English summary) (*see* **2005g:93004**)
Kim, A. V. *see* **Novoselov, A. V. et al.**
King, John Robert *see* **Anguige, K. et al.**, 2005k:92022
Kolev, Mikhail *see* **Foryś, Urszula**, 2005b:35148
Konigsberg, Zvi Retchkiman Switching modeling, stability and regulation for biological systems: genomics. (English summary) **2005a:92030**
— To become unstable can be a good dynamical property! (English summary)
Kotsios, St. (*with* Leventides, John) A feedback policy for a modified Samuelson-Hicks model. (English summary) **2005f:91100**
Kuijper, Margreta (*with* Polderman, Jan Willem) Reed-Solomon list decoding from a system-theoretic perspective. (English summary) **2005e:94286**
Kumar, Vijay[5] *see* **Cooperative control**, **2005g:93004** *and* **Zhang, Fan et al.**, (2005g:93004)
Lan, Chun-Hsiung (*with* Chen, Miao-Sheng; Yu, Chien) The control of a serial-capacitated production line for cost optimization. (English summary) **2005e:90027**
Langford, Lauren A. *see* **Obeyesekere, Mandri N. et al.**, 2005g:92012
Lecchini, Andrea (*with* Gevers, Michel) Explicit expression of the parameter bias in identification of Laguerre models from step responses. (English summary) **2005b:93047**
(Leonard, Naomi Ehrich) *see* **Cooperative control**, **2005g:93004**
Lerner, V. S. Introduction to information systems theory: concepts, formalism and applications. (English summary)
— Corrigendum: "Introduction to information systems theory: concepts, formalism and applications" [Internat. J. Systems Sci. **35** (2004), no. 7, 405–424; MR2080974].
Leventides, John *see* **Kotsios, St.**, 2005f:91100
Li, Cheng[2] *see* **Ahmed, N. U.**, 2005g:93077
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Lobry, Claude La modélisation en écologie: du laboratoire à l'écosystème. [Ecological modelling: from the laboratory to the ecosystem]
López-Mancilla, D. (*with* Cruz-Hernández, C.) Output synchronization of chaotic systems: model-matching approach with application to secure communication. (English summary) **2005m:37216**
López-Mellado, Ernesto (*with* Villanueva-Paredes, Norma; Almeyda-Canepa, Hugo) Modelling of batch production systems using Petri nets with dynamic tokens. (English summary)
Lozhnikov, A. B. *see* **Novoselov, A. V. et al.**
Lyles, Danielle *see* **Tien, Joseph H. et al.**
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Maksimov, Vyacheslav I. Control modeling for quasilinear parabolic equations. (English summary) **2005c:93045**
Marchuk, Gurii I. *see* **Perelman, M. I. et al.**
Margaliot, Michael *see* **Tron, Eviatar**
Marigo, Alessia *see* **Bicchi, Antonio et al.**, 2005b:93009
Markov, Yu. G. Information fields: the modelling of data in complex system theory. (English summary)
Marshall, Elaine S. *see* **Basse, Britta et al.**, 2005g:92017
Mascolo, Saverio Modeling and designing the internet congestion control. (*see* **2005g:93003**)
Michels, Kai TS control—the link between fuzzy control and classical control theory. (English summary) (*see* **2005m:41001**)
Mintz, Max *see* **Zhang, Fan et al.**, (2005g:93004)
Moheimani, S. O. Reza (*with* Halim, Dunant; Fleming, Andrew J.) ★ Spatial control of vibration. **2005h:74028**
Morrison, Ronald W. ★ Designing evolutionary algorithms for dynamic environments. **2005b:90005**
Morse, A. Stephen *see* **Cooperative control**, **2005g:93004** *and* **Hespanha, João P. et al.**
Myerscough, Mary R. *see* **Vincent, Andrew W.**, 2005h:92003
Narendra, Kumpati S. (*with* Driollet, Osvaldo A.; George, Koshy) Adaptive control using multiple models: a methodology. (English summary) (*see* **2005a:00024**)
(Nation, James) *see* **Formal descriptions of developing systems**, 2005f:92001
Ng, Douglas K. S. *see* **Caldwell, James**, 2005a:93002
Novoselov, A. V. (*with* Lozhnikov, A. B.; Chereshnev, V. A.; Sergeev, Alexander G.; Kim, A. V.; Gusev, E. Yu.; Pimenov, V. G.) Mathematical modelling of mutant accumulation kinetics in a cloned viral population. (English summary)
Obeyesekere, Mandri N. (*with* Tecarro, Edwin S.; Langford, Lauren A.) A hybrid cell cycle system: model of telomerase activity. (English summary) **2005g:92012**
Ohta, Yoshito Realization of input-output maps using generalized orthonormal basis functions. (English summary) **2005k:93041**
Passino, Kevin M. *see* **Finke, Jorge et al.**, (2005g:93004)
Pavel, Lacra Dynamics and stability in optical communication networks: a system theory framework. (English summary)
Pavlovskiĭ, Yu. N. On decomposition structures of mathematical objects. (Russian)
Perelman, M. I. (*with* Marchuk, Gurii I.; Borisov, S. E.; Kazennykh, B. Ya.; Avilov, K. K.; Karkach, A. S.; Romanyukha, A. A.) Tuberculosis epidemiology in Russia: the mathematical model and data analysis. (English summary)
Pimenov, V. G. *see* **Novoselov, A. V. et al.**
Pinter, Gabriella A. *see* **Banks, H. T.**, 2005k:74058
Polderman, Jan Willem *see* **Kuijper, Margreta**, 2005e:94286
Popkov, Yu. S. Positive dynamical systems with an entropy operator. (Russian. Russian summary) **2005g:34122**
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Quanten, S. *see* **Van Brecht, A. et al.**
Raimundo, Silvia Martorano (*with* Yang, Hyun Mo) The effects of drug treatment, birth rate and reproductive age on the vertical transmission of HIV. (English summary) (*see* **2005d:92001**)
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Rapisarda, Paolo *see* **Kaneko, Osamu et al.**, 2005k:93150
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Rodríguez, Mauricio (*with* Good, Theresa A.; Wales, Melinda E.; Hua, Jean P.; Wild, James R.) Modeling allosteric regulation of de novo pyrimidine biosynthesis in *Escherichia coli*. (English summary)
Romanyukha, A. A. *see* **Perelman, M. I. et al.** *and* **Sannikova, T. E. et al.**
Roth, Bradley J. Art Winfree and the bidomain model of cardiac tissue. (English summary)
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Sandberg, Irwin W. Uniform approximation of discrete-time periodically varying systems. (English summary) **2005b:93104**
— Erratum: "Uniform approximation of discrete-time periodically varying systems" [Circuits Systems Signal Process. **23** (2004), no. 4, 285–298; MR2075148 (2005b:93104)].
Sannikova, T. E. (*with* Rudnev, S. G.; Romanyukha, A. A.; Yashin, Anatoli I.) Immune system aging may be affected by HIV infection: the mathematical model of immunosenescence. (English summary)
Scorletti, Gérard *see* **Gevers, Michel et al.**, **2005k:93054** *and* **2005k:93055**
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Shakhnov, I. F. Rapid analysis of the ordering of interval values. (Russian. Russian summary) **2005k:60066**
Slawig, Thomas (*with* Zickfeld, Kirsten) Parameter optimization using algorithmic differentiation in a reduced-form model of the Atlantic thermohaline circulation. (English summary) **2005b:86034**
Slotine, Jean-Jacques E. (*with* Wang, Wei[18]) A study of synchronization and group cooperation using partial contraction theory. (*see* **2005g:93004**)
Song, Dong-Ping Optimal threshold control of empty vehicle redistribution in two depot service systems. (English summary)
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Tien, Joseph H. (*with* Lyles, Danielle; Zeeman, Mary Lou) A potential role of modulating inositol 1, 4, 5-trisphosphate receptor desensitization and recovery rates in regulating ovulation. (English summary)
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(Trofimova, Irina) *see* **Formal descriptions of developing systems**, 2005f:92001
Tron, Eviatar (*with* Margaliot, Michael) Mathematical modeling of observed natural behavior: a fuzzy logic approach. (English summary)
Van Brecht, A. (*with* Quanten, S.; Zerihundesta, T.; Van Buggenhout, S.; Berckmans, D.) Control of the 3-D spatio-temporal distribution of air temperature. (English summary)
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Van Montfort, Kees (*with* Bijleveld, Catrien) Dynamic analysis of multivariate panel data with non-linear transformations. (English summary)
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Wong, A. S. M. An improved multivariate grey model with radial basis functions. (*see* **2005m:00008**)
Woźniak, Adam A simple model of drive with friction for control system simulation. (English summary) **2005h:93113**
Xing, Gong Qi Central factors selection of organization networks based on integrity. (Chinese. English and Chinese summaries)
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Zhang, Fan (*with* Grocholsky, Ben; Kumar, Vijay[5]; Mintz, Max) Cooperative control for localization of mobile sensor networks. (English summary) (*see* **2005g:93004**)
Zhang, Qing Ling *see* **He, Xi Qin et al., 2005a:93019**
Zhou, Tianshou (*with* Tang, Yun; Chen, Guanrong) Analysis of global behaviors in a classical power system. (English summary) **2005k:34205**
Zickfeld, Kirsten *see* **Slawig, Thomas, 2005b:86034**
Zubov, Vladimir Ivanovich[2] *see* **Albu, A. F.**
Zuev, S. M. (*with* Gessler, Damian) Modelling of disease progression and epidemics. (English summary)

Items listed otherwise than by author

Cooperative control ★ Cooperative control. **2005g:93004**
Formal descriptions of developing systems ★ Formal descriptions of developing systems. **2005f:92001**
Lecture Notes in Control and Information Sciences ★ Cooperative control. **2005g:93004**
Manoa, HI ★ Formal descriptions of developing systems. **2005f:92001**

93A99 None of the above, but in this section

Avduevskiĭ, V. S. (*with* Bakulin, V. N.; Malkov, S. Yu.; Nazarenko, V. A.) Allowance for uncertainty in the justification of requirements for the durability characteristics of complex technological systems. (Russian)
Bakulin, V. N. *see* **Avduevskiĭ, V. S. et al.**
Malkov, S. Yu. *see* **Avduevskiĭ, V. S. et al.**
Nazarenko, V. A. *see* **Avduevskiĭ, V. S. et al.**

93Bxx Controllability, observability, and system structure

93B03 Attainable sets

Aboubacar, Moussa *see* **Nikol′skiĭ, M. S., 2005a:93012**
Bicchi, Antonio (*with* Chitour, Yacine; Marigo, Alessia) Reachability and steering of rolling polyhedra: a case study in discrete nonholonomy. (English summary) **2005b:93009**
Braga Barros, Carlos J. Chain control sets and fiber bundles. (English summary) **2005b:93010**
Chentsov, A. G. Topological constructions of extensions and representations of attraction sets. (English summary) **2005a:93009**
— The abstract problem of attainability under constraints of an asymptotic nature. (Russian) **2005e:93006**
— *see also* **Morina, S. I., 2005b:93012**
Chernous′ko, F. L. *see* **Ovseevich, A. I., 2005m:93007**
Chitour, Yacine *see* **Bicchi, Antonio et al., 2005b:93009**
Colonius, Fritz (*with* Spadini, Marco) A dynamic index for control sets. (English summary) **2005a:93010**
Donchev, Tzanko D. (*with* Farkhi, Elza M.; Wolenski, Peter R.) Characterizations of reachable sets for a class of differential inclusions. (English summary) **2005c:93007**
Farkhi, Elza M. *see* **Donchev, Tzanko D. et al., 2005c:93007**
Fedotov, Andrey Anatolievich *see* **Kumkov, S. I. et al., 2005a:93011**
Formal′skiĭ, A. M. *see* **Sirotin, A. N., 2005g:93010**
Fridman, Emilia (*with* Shaked, U.) On reachable sets for linear systems with delay and bounded peak inputs. (English summary)
(Galeani, S.) *see* **Varga, Andras**
(Grasselli, O. M.) *see* **Varga, Andras**
Grigor′eva, E. V. (*with* Khaĭlov, E. N.) Attainable set of a nonlinear controlled microeconomic model. (English summary) **2005k:93009**
Hu, Ting Shu (*with* Lin, Zongli; Qiu, Li) An explicit description of null controllable regions of linear systems with saturating actuators. (English summary) **2005b:93011**
— (*with* Lin, Zongli) Controlled invariance of ellipsoids: linear vs. nonlinear feedback. (English summary) **2005f:93003**
Khaĭlov, E. N. On the parametrization of the attainable set of a homogeneous bilinear system with quasicommuting matrices. (Russian. Russian summary) **2005d:93006**
— *see also* **Grigor′eva, E. V., 2005k:93009**
Kinĕv, A. N. Numerical modeling of the process of guaranteed ellipsoidal estimation. (Russian. Russian summary) **2005e:93007**
Kirilin, M. N. Ellipsoidal approximations in reachability problems with nonellipsoidal constraints. Internal ellipsoids. (Russian. Russian summary) **2005k:93010**
Kumkov, S. I. (*with* Patsko, V. S.; Pyatko, S. G.; Fedotov, Andrey Anatolievich) Informational sets in a problem of observation of aircraft trajectory. (English summary) **2005a:93011**
Kuznetsov, V. I. On a construction of an extension of the problem of pure impulse control with boundary conditions. (Russian. Russian summary) **2005d:93007**
Ledyaev, Yu. S. On an infinite-dimensional variant of the Rashevskiĭ-Chow theorem. (Russian) **2005k:93011**
Lin, Zongli *see* **Hu, Ting Shu et al., 2005b:93011** *and* **2005f:93003**
(Longhi, S.) *see* **Varga, Andras**
Lou, H. W. On the attainable sets of control systems with p-integrable controls. (English summary) **2005f:93004**
Marigo, Alessia *see* **Bicchi, Antonio et al., 2005b:93009**
Marquez, Horacio J. *see* **Polushin, Ilya G., 2005f:93006**
Morina, S. I. (*with* Chentsov, A. G.) On the extension of a control problem with constraints on energy resources and with phase constraints on some of the coordinates. (Russian. Russian summary) **2005b:93012**
Nazin, Alexander V. (*with* Nazin, S. A.; Polyak, Boris Teodorovich) On the convergence of outer ellipsoidal approximations of attainability domains of linear discrete dynamical systems. (Russian. Russian summary) **2005f:93005**
Nazin, S. A. *see* **Nazin, Alexander V. et al., 2005f:93005**
Nikol′skiĭ, M. S. (*with* Aboubacar, Moussa) Some estimates of the reachable set for the controlled van der Pol equation. (English summary) **2005a:93012**
Ovseevich, A. I. (*with* Chernous′ko, F. L.) Properties of optimal ellipsoids that approximate attainable domains of systems with uncertainties. (Russian. Russian summary) **2005m:93007**
Patsko, V. S. *see* **Kumkov, S. I. et al., 2005a:93011**
Polushin, Ilya G. (*with* Marquez, Horacio J.) Conditions for the existence of continuous storage functions for nonlinear dissipative systems. (English summary) **2005f:93006**
Polyak, Boris Teodorovich Convexity of the reachable set of nonlinear systems under L_2 bounded controls. (English summary) **2005c:93008**
— *see also* **Nazin, Alexander V. et al., 2005f:93005**
Pyatko, S. G. *see* **Kumkov, S. I. et al., 2005a:93011**
Qiu, Li *see* **Hu, Ting Shu et al., 2005b:93011**
Seidman, Thomas I. Positive reachability for diffusion equations. (English summary) **2005d:93008**
Shaked, U. *see* **Fridman, Emilia**
Sirotin, A. N. (*with* Formal′skiĭ, A. M.) Reachability and controllability of discrete systems under magnitude- and impulse-constrained control actions. (Russian. Russian summary) **2005g:93010**
Spadini, Marco *see* **Colonius, Fritz, 2005a:93010**
Taras′ev, A. M. *see* **Vdovin, S. A. et al., 2005i:93008**
Tolstonogov, A. A. Properties of attainable sets of evolution inclusions and control systems of subdifferential type. (Russian. Russian summary) **2005e:93008**
Tonkov, E. L. Uniform attainability and Lyapunov reducibility of bilinear control system. (English summary) **2005a:93013**
Topunov, M. V. On the convexity of the attainability set of a quasicommutative bilinear system. (Russian. Russian summary) **2005h:93003**
— On the convexity of the reachable set of a bilinear controlled system. (Russian. Russian summary) **2005b:93013**
— On the convexity of the reachability set of a smooth controlled system that is linear with respect to the phase variables. (Russian. Russian summary) **2005j:93009**
Ushakov, Vladimir N. *see* **Vdovin, S. A. et al., 2005i:93008**
Varga, Andras Computation of Kalman decompositions of periodic systems. (English summary)
Vazhentsev, A. Yu. External ellipsoidal estimation of the union of two concentric ellipsoids and its applications. (English summary) **2005c:93009**
— Internal ellipsoidal estimation of the state of a dynamical system based on observation with noise. (Russian. Russian summary) **2005f:93007**
Vdovin, S. A. (*with* Taras′ev, A. M.; Ushakov, Vladimir N.) Construction of the attainability set of the Brockett integrator. (Russian. Russian summary) **2005i:93008**
(Verriest, Erik I.) *see* **Varga, Andras**
Wolenski, Peter R. *see* **Donchev, Tzanko D. et al., 2005c:93007**

Items with secondary classifications in 93B03

Boigelot, Bernard (*with* Herbreteau, Frédéric; Jodogne, Sébastien) Hybrid acceleration using real vector automata (extended abstract). (English summary) (*see* **2005b:68012**)
Braga Barros, Carlos J. (*with* San Martin, Luiz A. B.) Maximal chain transitive sets for local groups. (English summary) **2005d:93039**
Bru, Rafael (*with* Romero, Sergio; Sánchez, Elena) Structural properties of positive periodic discrete-time linear systems: canonical forms. (English summary) **2005d:93026**
Cannarsa, Piermarco (*with* Cârjă, Ovidiu) On the Bellman equation for the minimum time problem in infinite dimensions. (English summary) **2005f:49075**
Cantó, Begoña (*with* Coll, Carmen; Sánchez, Elena) Positive N-periodic descriptor control systems. (English summary) **2005i:93055**
Cârjă, Ovidiu *see* **Cannarsa, Piermarco, 2005f:49075**
Chentsov, A. G. Generalized attraction sets and approximate solutions forming them. (English summary) **2005h:93116**
Coll, Carmen *see* **Cantó, Begoña et al., 2005i:93055**
Colonius, Fritz (*with* Kliemann, Wolfgang) Limits of input-to-state stability. (English summary) **2005e:93107**
Donchev, Tzanko D. (*with* Rios, Vinicio; Wolenski, Peter R.) A characterization of strong invariance for perturbed dissipative systems. (English summary) **2005g:49029**
Filippova, Tatiana F. (*with* Lisin, D. V.) On the estimation of trajectory tubes of differential inclusions. (English summary) **2005e:34024**
— (*with* Vzdornova, Oksana G.) State estimation for linear impulsive control systems. (English summary)
Formal′skiĭ, A. M. (*with* Sirotin, A. N.) On the geometric properties of reachable and controllable sets for linear discrete systems. (English summary) **2005d:93086**
Gabor, Grzegorz (*with* Quincampoix, Marc) On attainability of a set by at least one solution to a differential inclusion. (English summary) **2005k:34042**

Gayer, T. Control sets and their boundaries under parameter variation. (English summary) **2005g:93063**
Gevorgyan, L. Z. *see* **Tovmasyan, N. E.**
Herbreteau, Frédéric *see* **Boigelot, Bernard et al., (2005b:68012)**
Hu, Ting Shu (*with* Lin, Zongli) Properties of the composite quadratic Lyapunov functions. (English summary) **2005c:93095**
Jodogne, Sébastien *see* **Boigelot, Bernard et al., (2005b:68012)**
Kamath, Manjunath *see* **Ramachandran, Parthasarathy, 2005a:93108**
Kliemann, Wolfgang *see* **Colonius, Fritz, 2005e:93107**
Lakshmikantham, V. (*with* Vatsala, A. S.) Corrigendum: "Set differential equations and monotone flows" [Nonlinear Dyn. Syst. Theory 3 (2003), no. 2, 151–161; MR2011436 (2004i:34026)]. **Lin, Zongli** *see* **Hu, Ting Shu, 2005c:93095**
Lisin, D. V. *see* **Filippova, Tatiana F., 2005e:34024**
Malikov, A. I. Ellipsoidal estimation of the state of discrete control systems by means of matrix comparison systems. (Russian) **2005b:93097**
Pilishkin, V. N. The method of integral boundary surfaces in the problem of the control of dynamic plants. (Russian. Russian summary) **2005k:93104**
Popova, S. N. On the property of local attainability of linear control systems. (Russian. Russian summary) **2005k:93023**
Quincampoix, Marc *see* **Gabor, Grzegorz, 2005k:34042**
Ramachandran, Parthasarathy (*with* Kamath, Manjunath) A sufficient condition for reachability in a general Petri net. (English summary) **2005a:93108**
Rios, Vinicio *see* **Donchev, Tzanko D. et al., 2005g:49029**
Romero, Sergio *see* **Bru, Rafael et al., 2005d:93026**
Sánchez, Elena *see* **Bru, Rafael et al., 2005d:93026** *and* **Cantó, Begoña et al., 2005i:93055**
San Martin, Luiz A. B. *see* **Braga Barros, Carlos J., 2005d:93039**
Sirotin, A. N. *see* **Formal'skiĭ, A. M., 2005d:93086**
Tovmasyan, N. E. (*with* Gevorgyan, L. Z.) Integral representations and the range of an aircraft. (Russian. English and Russian summaries)
Vatsala, A. S. *see* **Lakshmikantham, V.**
Vzdornova, Oksana G. *see* **Filippova, Tatiana F.**
Wolenski, Peter R. *see* **Donchev, Tzanko D. et al., 2005g:49029**
Yeung, David W. K. *see* **Yu, Wei**
Yu, Wei (*with* Yeung, David W. K.) Stochastic pursuit problems with different geometric shapes of reachable sets. (English and Chinese summaries)

93B05 Controllability

Agrachev, Andrei A. (*with* Sarychev, Andrei V.) Controllability for the Navier-Stokes equation with small control. (Russian) **2005h:93004**
Ahmed, N. U. Controllability of evolution equations and inclusions driven by vector measures. (English summary) **2005i:93009**
Ainseba, Bedr'Eddine (*with* Aniţa, Sebastian[2]) Internal exact controllability of the linear population dynamics with diffusion. (English summary) **2005h:93005**
Akhmet, M. U. (*with* Zafer, A.) Controllability of two-point nonlinear boundary-value problems by the numerical-analytic method. (English summary) **2005a:93014**
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Anandhi, E. R. *see* **Balachandran, Krishnan, 2005e:93010** *and* **2005h:93006**
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Anthoni, S. Marshal *see* **Sakthivel, R. et al., 2005f:93020**
Avalos, George (*with* Lasiecka, Irena; Rebarber, Richard) Boundary controllability of a coupled wave/Kirchoff system. (English summary) **2005a:93015**
— (*with* Lasiecka, Irena) Exact boundary controllability of a hybrid PDE system arising in structural acoustic modeling. (English summary) **2005e:93009**
— (*with* Lasiecka, Irena) The null controllability of thermoelastic plates and singularity of the associated minimal energy function. (English summary) **2005b:93015**
Badraoui, L. (*with* Boutoulout, A.; Bourray, H.) Controllability of distributed parameter bioreactor: wastewater epuration. (English summary)
Balachandran, Krishnan (*with* Anandhi, E. R.) Boundary controllability of neutral integrodifferential systems in Banach spaces. (English summary) **2005e:93010**
— (*with* Anandhi, E. R.) Controllability of neutral functional integrodifferential infinite delay systems in Banach spaces. (English summary) **2005h:93006**
Balasubramaniam, P. (*with* Dauer, J. P.) Controllability of semilinear stochastic evolution equations with nonlocal conditions. (English summary)
Balint, A. M. *see* **Kaslik, E. et al., 2005m:93014**
Balint, Ş t. *see* **Kaslik, E. et al., 2005m:93014**
Banavar, Ravi N. *see* **Mahindrakar, Arun D. et al.**
Belishev, M. I. (*with* Glasman, A.) Boundary control of the Maxwell dynamical system: lack of controllability by topological reasons. (English summary) (*see* **2005b:00020**)
— On the boundary controllability of a dynamical system described by the wave equation on a class of graphs (on trees). (Russian. English and Russian summaries) **2005c:93010**
Benabdallah, Assia *see* **Ammar-Khodja, Farid et al., 2005b:93014**
Benchohra, Mouffak (*with* Ntouyas, Sotiris K.) Controllability of neutral functional differential and integrodifferential inclusions in Banach spaces. (English summary) **2005e:93011**
— (*with* Górniewicz, Lech; Ntouyas, Sotiris K.; Ouahab, Abdelghani) Controllability results for impulsive functional differential inclusions. (English summary) **2005h:93007**
Birtea, Petre (*with* Puta, Mircea; Ratiu, Tudor S.) Controllability of Poisson systems. (English summary) **2005m:93008**
Bodart, Olivier (*with* González-Burgos, Manuel; Pérez-García, Rosario) Existence of insensitizing controls for a semilinear heat equation with a superlinear nonlinearity. (English summary) **2005h:93008**
— (*with* González-Burgos, Manuel; Pérez-García, Rosario) Insensitizing controls for a heat equation with a nonlinear term involving the state and the gradient. (English summary) **2005d:93009**
— (*with* González-Burgos, Manuel; Pérez-García, Rosario) A local result on insensitizing controls for a semilinear heat equation with nonlinear boundary Fourier conditions. (English summary) **2005h:93009**
Bogataj, Ludvik (*with* Bogataj, Marija; Ferbar, Liljana) Controllability of supply chain, controlled in Laplace-transformed space. (English summary)
Bogataj, Marija *see* **Bogataj, Ludvik et al.**
Bokor, József *see* **Stikkel, G. et al.**
Bourray, H. *see* **Badraoui, L. et al.**
Boutoulout, A. *see* **Badraoui, L. et al.**
Burke, James V. (*with* Lewis, Adrian S.; Overton, Michael L.) Pseudospectral components and the distance to uncontrollability. (English summary) **2005i:93010**
Caccetta, Louis (*with* Foulds, L. R.; Rumchev, Ventseslav G.) A positive linear discrete-time model of capacity planning and its controllability properties. (English summary) **2005h:93010**
Caines, Peter E. (*with* Lemch, Ekaterina S.) On the global controllability of nonlinear systems: fountains, recurrence, and applications to Hamiltonian systems. (English summary) **2005e:93012**
Cannarsa, Piermarco (*with* Martinez, Patrick; Vancostenoble, Judith) Persistent regional null controllability for a class of degenerate parabolic equations. (English summary) **2005i:93011**
— (*with* Martinez, Patrick; Vancostenoble, Judith) Null controllability of degenerate heat equations. (English summary) **2005j:93010**
Caruso, Andrea On the complete controllability of a distributed parameter nonlinear control system with partially C^1 coefficients. (English summary) **2005g:93011**
Castro Barbero, Carlos (*with* Zuazua, Enrique) Unique continuation and control for the heat equation from an oscillating lower dimensional manifold. (English summary) **2005k:93012**
Chai, Hua Jin (*with* Xie, Ling Li) Controllability of a linear and semi-linear distributed-parameter system with two kinds of boundary controls. (Chinese. English and Chinese summaries)
Chalishajar, Dimplekumar N. *see* **George, Raju K. et al., 2005j:93011**
Cheng, Bangwen (*with* Zhang, Jing[10]) Robust controllability for a class of uncertain linear time-invariant MIMO systems. (English summary) **2005f:93008**
Cheng, Dai Zhan Controllability of switched bilinear systems. (English summary) **2005i:93012**
Chentsov, A. G. Some questions of asymptotic analysis: approximate solutions and extension constructions. (English summary) **2005k:93013**
Choi, Q-Heung *see* **Sakthivel, R. et al., 2005f:93020**
Condon, M. (*with* Ivanov, Rossen I.) Empirical balanced truncation of nonlinear systems. (English summary) **2005m:93009**
Coron, Jean-Michel (*with* Crépeau, Emmanuelle) Exact boundary controllability of a nonlinear KdV equation with critical lengths. (English summary) **2005b:93016**
— (*with* Trélat, Emmanuel) Global steady-state controllability of one-dimensional semilinear heat equations. (English summary) **2005f:93009**
Crépeau, Emmanuelle *see* **Coron, Jean-Michel, 2005b:93016**
Czornik, Adam (*with* Świerniak, Andrzej) On direct controllability of discrete time jump linear system. (English summary) **2005d:93010**
Dáger, René Simultaneous interior controllability of elastic strings. (English summary) (*see* **2005b:00020**)
Dauer, J. P. (*with* Mahmudov, N. I.) Exact null controllability of semilinear integrodifferential systems in Hilbert spaces. (English summary) **2005f:93010**
— (*with* Mahmudov, N. I.) Controllability of some nonlinear systems in Hilbert spaces. (English summary) **2005h:93011**
— *see also* **Balasubramaniam, P.**
Díaz Díaz, Jesús Ildefonso (*with* Ramos, Á. M.) Numerical experiments regarding the distributed control of semilinear parabolic problems. (English summary) **2005h:93012**
Divya *see* **Sukavanam, N.**
Dorville, René (*with* Nakoulima, Ousseynou; Omrane, Abdennebi) Contrôle optimal pour les problèmes de contrôlabilité des systèmes distribués à données manquantes. (English and French summaries) [Optimal control for the controllability of distributed systems with incomplete data] **2005b:93017**
Dupaix, C. *see* **Ammar-Khodja, Farid et al., 2005b:93014**
Elliott, David L. A controllability counterexample. (English summary) **2005m:93010**
Fabbri, Roberta (*with* Johnson, Russell A.; Kloeden, Peter E.) Digitization of nonautonomous control systems. (English summary) **2005g:93012**
Fausett, Laurene V. (*with* Murty, Kanuri N.) Controllability, observability and realizability criteria on time scale dynamical systems. (English summary) **2005e:93013**
Fedorov, V. E. (*with* Ruzakova, O. A.) One- and two-dimensional controllability of Sobolev-type equations in Banach spaces. (Russian. Russian summary) **2005e:93014**
Ferbar, Liljana *see* **Bogataj, Ludvik et al.**
Fernández Cara, Enrique (*with* Guerrero, Sergio; Imanuvilov, Oleg Yurievich; Puel, Jean-Pierre) Remarks on exact controllability for Stokes and Navier-Stokes systems. (English and French summaries) **2005c:93011**
— (*with* de Teresa, Luz) Null controllability of a cascade system of parabolic-hyperbolic equations. (English summary) **2005f:93011**
— (*with* Guerrero, Sergio; Imanuvilov, Oleg Yurievich; Puel, Jean-Pierre) Local exact controllability of the Navier-Stokes system. (English and French summaries) **2005g:93013**
— (*with* Guerrero, Sergio; Imanuvilov, Oleg Yurievich; Puel, Jean-Pierre) On the controllability of the N-dimensional Navier-Stokes and Boussinesq systems with $N-1$ scalar controls. (English and French summaries) **2005i:93013**
Ferrante, Augusto Positive real lemma: necessary and sufficient conditions for the existence of solutions under virtually no assumptions. (English summary) **2005k:93014**
Fornasini, Ettore (*with* Valcher, Maria Elena) Controllability and reachability of 2-D positive systems: a graph theoretic approach. (English summary) **2005m:93011**
Foulds, L. R. *see* **Caccetta, Louis et al., 2005h:93010**
Gao, Hang (*with* Lei, Peidong; Zhang, Bo[1]) A class of nonlinear degenerate integrodifferential control systems. (English summary) **2005m:93012**
Gatsori, E. P. (*with* Górniewicz, Lech; Ntouyas, Sotiris K.) Controllability results for nondensely defined evolution impulsive differential inclusions with nonlocal conditions. (English summary)
Ge, Shuzhi Sam *see* **Sun, Zhendong et al., 2005k:93028**
George, Raju K. (*with* Chalishajar, Dimplekumar N.; Nandakumaran, Akambadath K.)

Controllability of second order semi-linear neutral functional differential inclusions in Banach spaces. (English summary) **2005j:93011**
— *see also* **Nandakumaran, Akambadath K., 2005d:93016**
Glasman, A. *see* **Belishev, M. I., (2005b:00020)**
Glass, Olivier On the controllability of the Vlasov-Poisson system. (English summary) **2005a:93016**
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Grüne, Lars Robust asymptotic controllability under time-varying perturbations. (English summary) **2005f:93012**
Guerrero, Sergio *see* **Fernández Cara, Enrique et al., 2005c:93011; 2005g:93013** *and* **2005i:93013**
Gugat, Martin (*with* Leugering, Günter; Schmidt, E. J. P. Georg) Global controllability between steady supercritical flows in channel networks. (English summary) **2005a:93017**
Guo, Meng Shu (*with* Xue, Xiao Ping; Li, Rong Lu) Controllability of impulsive evolution inclusions with nonlocal conditions. (English summary) **2005a:93018**
Gustafsson, Mats *see* **Jonsson, B. Lars G. et al., 2005k:93015**
Habets, L. C. G. J. M. (*with* van Schuppen, J. H.) A control problem for affine dynamical systems on a full-dimensional polytope. (English summary) **2005m:93013**
Haraux, Alain An alternative functional approach to exact controllability of reversible systems. (English summary) **2005h:93013**
He, Xi Qin (*with* Zhang, Da Qing[2]; Zhang, Qing Ling) Controllability of descriptor interval systems. (Chinese. English and Chinese summaries)
— (*with* Zhan, Daqing; Zhang, Qing Ling) Controllability of interval systems and descriptor interval systems. (English summary) **2005a:93019**
de Hoop, Maarten V. *see* **Jonsson, B. Lars G. et al., 2005k:93015**
Hu, Ting Shu (*with* Miller, Daniel E.; Qiu, Li) Null controllable region of LTI discrete-time systems with input saturation. (English summary)
Il'in, Vladimir Aleksandrovich[1] Boundary control of spherically symmetric oscillations of a ball under the condition of the existence of finite energy. (Russian) **2005f:93013**
— (*with* Moiseev, E. I.) Boundary control of radially symmetric oscillations of a round membrane. (Russian) **2005f:93014**
Imanuvilov, Oleg Yurievich *see* **Fernández Cara, Enrique et al., 2005c:93011; 2005g:93013** *and* **2005i:93013**
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Kalogeropoulos, G. (*with* Psarrakos, Panayiotis J.) A note on the controllability of higher-order linear systems. (English summary) **2005f:93015**
Kang, Jum Ran (*with* Kwun, Young Chel; Park, Jong Seo) Controllability of nonlinear second order differential equations. (English summary) **2005d:93011**
Kapitonov, Boris V. Simultaneous exact controllability for a class of evolution systems. (English and Portuguese summaries) **2005h:93014**
Kaslik, E. (*with* Balint, A. M.; Grigis, Alain; Balint, Ştefan) On the controllability of some steady states in the case of nonlinear discrete dynamical systems with control. (English summary) **2005m:93014**
Khaĭlov, E. N. On the convexity of the attainable set of a homogeneous bilinear system. (Russian. Russian summary) **2005h:93015**
Khapalov, Alexander Controllability properties of a vibrating string with variable axial load. (English summary) **2005e:93015**
Kim, Seon Yu (*with* Kwun, Young Chel; Park, Jong Seo) Complete T-controllability of nonlinear delay parabolic equations under boundary control. (English summary) **2005h:93016**
— *see also* **Park, Dong Gun et al., 2005f:93019**
Kloeden, Peter E. *see* **Fabbri, Roberta et al., 2005g:93012**
Komornik, Vilmos (*with* Loreti, Paola; Mazzini, Leonardo) Null controllability of the free surface of a liquid in a container. (English summary) **2005e:93016**
Kostin, I. N. *see* **Ammar-Khodja, Farid et al., 2005b:93014**
Kowalski, Tadeusz (*with* Sadkowski, Wawrzyniec) The null-exact controllability of the generalized wave problem governed by once integrated semigroups. (English summary) **2005f:93016**
Krastanov, Mikhail I. A sufficient condition for small-time local attainability of a set. (English summary) **2005d:93012**
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Krishnaprasad, P. S. *see* **Manikonda, Vikram**
Kurzhanskiĭ, Aleksandr Borisovich (*with* Varaiya, Pravin P.) On reachability under uncertainty. (English summary) **2005e:93017**
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Łada, Andrzej (*with* Sidz, Leszek) Stable Dirichlet observability and controllability for the evolution isotropic Lame system with variable coefficients. (English summary) **2005c:93012**
— (*with* Sidz, Leszek) Approximate boundary controllability for the system of linear elasticity. (English summary) **2005h:93017**
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Lee, Tong Heng *see* **Sun, Zhendong et al., 2005k:93028**
Lei, Peidong *see* **Gao, Hang et al., 2005m:93012**
Leiva, Hugo (*with* Siegmund, Stefan) A necessary algebraic conditions for controllability and observability of linear time-varying systems. (English summary) **2005a:93020**
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Li, Guocheng (*with* Song, Shi Ji; Wu, Cheng[3]) Controllability of evolution inclusions with nonlocal conditions. (English summary) **2005k:93016**
Li, Rong Lu *see* **Guo, Meng Shu et al., 2005a:93018**
Li, Ta Tsien (*with* Rao, Bopeng) Some results on the exact boundary controllability for quasilinear hyperbolic systems. (English summary) **2005e:93018**
— (*with* Yu, Li Xin) Exact controllability for first order quasilinear hyperbolic systems with zero eigenvalues. (English summary) **2005b:93018**
— (*with* Xu, Yu-Lan) Local exact boundary controllability for nonlinear vibrating string equations. (English summary) **2005b:93019**
— Exact boundary controllability for 1-D quasilinear wave equations. (English summary) (*see* **2005c:35004**)
— (*with* Rao, Bopeng) Contrôlabilité exacte frontière de l'écoulement d'un fluide non-stationnaire dans un réseau du type d'arbre de canaux ouverts. (English and French summaries) [Exact boundary controllability of unsteady flows in a tree-like network of open canals] **2005h:93018**
— Exact boundary controllability for quasilinear wave equations. (*see* **2005j:00021**)
Liu, Bin[2] Controllability of nonlinear neutral evolution integrodifferential systems with infinite delay. (English summary) **2005g:93014**
— Controllability of neutral functional differential and integrodifferential inclusions with infinite delay. (English summary) **2005g:93015**
— Controllability of impulsive neutral functional differential inclusions with infinite delay. (English summary) **2005k:93017**
Liu, Xiao Ping[2] *see* **Wang, Wen Tao[2] et al.**
Liu, Yazeng (*with* Peng, Shi Ge) Infinite horizon backward stochastic differential equation and exponential convergence index assignment of stochastic control systems. (English summary)
Loreti, Paola *see* **Komornik, Vilmos et al., 2005e:93016**
Mahindrakar, Arun D. (*with* Banavar, Ravi N.; Reyhanoglu, Mahmut) Controllability and point-to-point control of 3-DOF planar horizontal underactuated manipulators. (English summary)
— (*with* Banavar, Ravi N.; Reyhanoglu, Mahmut) Corrections to: "Controllability and point-to-point control of 3-DOF planar horizontal underactuated manipulators" [Internat. J. Control **78** (2005), no. 1, 1–13; MR2115680].
Mahmudov, N. I. *see* **Dauer, J. P., 2005f:93010** *and* **2005h:93011**
Maĭlybaev, A. A. Uncontrollability for linear autonomous multi-input dynamical systems depending on parameters. (English summary) **2005a:93021**
Makarov, E. K. (*with* Popova, S. N.) On sufficient conditions for the local proportional controllability of the Lyapunov exponents of linear systems. (Russian. Russian summary) **2005k:93018**
Mamedova, Gamar G. Controllability of n-dimensional homogeneous bilinear sequential machines over the field GF(p). (English summary) **2005b:93020**
Manikonda, Vikram (*with* Krishnaprasad, P. S.) Controllability of a class of underactuated mechanical systems with symmetry. (English summary)
Marchenko, Vladimir Matveevich (*with* Shklyar, B.) Approximate controllability of distributed systems with bounded input operator by distributed controller. (English summary) **2005f:93017**
— *see also* **Shklyar, B., 2005k:93027**
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Martsenyuk, Vasil' P. *see* **Nakonechnyĭ, A. G., 2005k:93020**
Masterkov, Yu. V. (*with* Rodina, L. I.) Sufficient and necessary conditions for the stable controllability of a nonlinear time-dependent system on the plane in the critical case. (Russian. Russian summary) **2005m:93015**
Matyukhin, V. I. (*with* Pyatnitskiĭ, Evgeniĭ Serafimovich) Controllability of mechanical systems in a class of controls bounded together with their derivatives. (Russian. Russian summary) **2005g:93016**
— Controllability of nonholonomic mechanical systems in the class of bounded controls. (Russian. Russian summary) **2005j:93012**
Mazzini, Leonardo *see* **Komornik, Vilmos et al., 2005e:93016**
Metel'skiĭ, A. V. (*with* Minyuk, S. A.) On constructive methods for solving dual problems of the controllability and identifiability of linear systems of neutral type. (Russian. Russian summary) **2005a:93022**
Micu, S. (*with* Ortega, J. H.; de Teresa, Luz) An example of ε-insensitizing controls for the heat equation with no intersecting observation and control regions. (English summary) **2005d:93013**
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Miller, Luc Geometric bounds on the growth rate of null-controllability cost for the heat equation in small time. (English summary) **2005f:93018**
— On the null-controllability of the heat equation in unbounded domains. (English summary) **2005m:93016**
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Minyuk, S. A. *see* **Metel'skiĭ, A. V., 2005a:93022**
Mirrahimi, Mazyar (*with* Rouchon, Pierre[1]) Controllability of quantum harmonic oscillators. (English summary) **2005a:93023**
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Moreles, Miguel Ángel Exact controllability and perturbation analysis for elastic beams. (English summary) **2005d:93014**
Morin, Pascal (*with* Samson, Claude) Practical and asymptotic stabilization of chained systems by the transverse function control approach. (English summary) **2005d:93015**
Muñoz Rivera, Jaime Edilberto (*with* Naso, Maria Grazia) Exact controllability for hyperbolic thermoelastic systems with large memory. (English summary) **2005h:93019**
Mureşan, Marian Controllability and relaxation in Banach spaces. (English summary) **2005k:93019**
Murty, Kanuri N. *see* **Fausett, Laurene V., 2005e:93013**
Nakonechnyĭ, A. G. (*with* Martsenyuk, Vasil' P.) Controllability problems for differential equations of Gompertz dynamics. (Russian. English and Ukrainian summaries) **2005k:93020**
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— *see also* **Dorville, René et al., 2005b:93017**
Nandakumaran, Akambadath K. (*with* George, Raju K.) Exact controllability of a semilinear thermoelastic system. (English summary) **2005d:93016**
— *see also* **George, Raju K. et al., 2005j:93011**

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Olenchikov, D. M. Global controllability of bilinear impulsive systems of delay type. (Russian. Russian summary) **2005h:93020**
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Puerta, X. *see* **Puerta Sales, Fernando et al.**, 2005k:93024
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— *see also* **Mirrahimi, Mazyar**, 2005a:93023
Rozanova, A. V. Controllability for a nonlinear abstract evolution equation. (Russian. Russian summary) **2005h:93021**
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— *see also* **Caccetta, Louis et al.**, 2005h:93010
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Shim, Hyungbo (*with* Teel, Andrew R.) Asymptotic controllability and observability imply semiglobal practical asymptotic stabilizability by sampled-data output feedback. (English summary) **2005k:93026**
Shklyar, B. (*with* Marchenko, Vladimir Matveevich) Approximate null-controllability of distributed systems with unbounded input operator by distributed controller. (English summary) **2005k:93027**
— *see also* **Marchenko, Vladimir Matveevich**, 2005f:93017
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Siegmund, Stefan *see* **Leiva, Hugo**, 2005a:93020
Sivergina, Irina F. (*with* Polis, Michael P.) Exact null controllability of a nonlinear thermoelastic contact problem. (English summary) **2005i:93016**
Song, Shi Ji *see* **Li, Guocheng et al.**, 2005k:93016
Stikkel, G. (*with* Bokor, József; Szabó, Zoltán István) Necessary and sufficient condition for the controllability of switching linear hybrid systems. (English summary)
Su, Xiaoming (*with* Zhang, Qing Ling; Shi, Hongyan) Infinite controllability and infinite observability of generalized dynamical systems. (English summary) **2005b:93022**
Sukavanam, N. (*with* Divya) Approximate controllability of abstract semilinear deterministic control system. (English summary)
Sun, Zhendong (*with* Ge, Shuzhi Sam; Lee, Tong Heng) Controllability and reachability criteria for switched linear systems. (English summary) **2005k:93028**
Świerniak, Andrzej *see* **Czornik, Adam**, 2005d:93010
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Wang, Long[1] *see* **Xie, Guangming**[1], 2005a:93025 *and* **2005j:93013**
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Xie, Guangming[1] (*with* Wang, Long[1]) Necessary and sufficient conditions for controllability and observability of switched impulsive control systems. (English summary) **2005a:93025**
— (*with* Wang, Long[1]) Controllability and observability of a class of linear impulsive systems. (English summary) **2005j:93013**
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Yang, Zhenyu An algebraic approach towards the controllability of controlled switching linear hybrid systems. (English summary)
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Zhang, Xu[1] (*with* Zuazua, Enrique) Controllability of nonlinear partial differential equations. (English summary) **2005e:93020**
— (*with* Zuazua, Enrique) Polynomial decay and control of a $1-d$ hyperbolic-parabolic coupled system. (English summary) **2005e:93021**
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Zheng, Yu Fan *see* **Zhang, Cishen**, 2005b:93023
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Items with secondary classifications in 93B05

Al'brekht, È. G. (*with* Sazanova, L. A.) On the construction of admissible controls in globally controlled nonlinear discrete systems. (Russian. English and Russian summaries) **2005c:93052**
Antsaklis, Panos J. *see* **Koutsoukos, Xenofon D.**, 2005a:93104
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— *see also* **Arara, Amaria et al.**, 2005f:34230
Berdyshev, Yu. I. On the problem of the sequential traversing of a set of smooth manifolds by a nonlinear controlled object. (Russian. Russian summary) **2005b:49050**
Bosch, Paul J. (*with* Jourani, Abderrahim; Henrion, René) Sufficient conditions for error bounds and applications. **2005e:49028**
Braga Barros, Carlos J. Chain control sets and fiber bundles. (English summary) **2005b:93010**
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Bru, Rafael (*with* Romero, Sergio; Sánchez, Elena) Structural properties of positive periodic discrete-time linear systems: canonical forms. (English summary) **2005d:93026**
— (*with* Caccetta, Louis; Rumchev, Ventseslav G.) Monomial subdigraphs of reachable and controllable positive discrete-time systems. (English summary) **2005k:93123**
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Chentsov, A. G. The method of programmed iterations in abstract control problems. (Russian. Russian summary) **2005h:49013**
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— (*with* Korobov, V. I.; Skorik, V. A.) The controllability function as the time of motion. II. (Russian. English, Russian and Ukrainian summaries) **2005h:49089**
Coll, Carmen (*with* Fullana, Màrius J.; Sánchez, Elena) Reachability and observability indices of a discrete-time periodic descriptor system. (English summary) **2005d:93018**
— *see also* **Cantó, Begoña et al.**, 2005i:93055
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Curtain, Ruth F. Riccati equations for stable well-posed linear systems: the generic case. (English summary) **2005c:49070**
Dáger, René Observation and control of vibrations in tree-shaped networks of strings. (English summary) **2005c:93042**
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Díaz Díaz, Jesús Ildefonso (*with* Tello, José Ignacio) Mathematical analysis, controllability and numerical simulation of a simple model of avascular tumor growth. **2005f:92004**
Dong, Shi-Hai (*with* Lara-Rosano, F.; Sun, Guo-Hua) The controllability of the pure states for the Morse potential with a dynamical group SU(1, 1). (English summary) **2005c:81240**
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— *see also* **Sirotin, A. N., 2005g:93010**
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García-Planas, Ma. Isabel (*with* Maĭlybaev, A. A.) Reduction to versal deformations of matrix pencils and matrix, pairs with application to control theory. (English summary) **2005c:15020**
Gatsori, E. P. Controllability results for nondensely defined evolution differential inclusions with nonlocal conditions. (English summary) **2005d:34135**
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Glowinski, Roland (*with* Periaux, Jacques; Toivanen, Jari) Time-periodic solutions of wave equation via controllability and fictitious domain methods. (English summary) (*see* **2005b:00020**)
González-Burgos, Manuel (*with* Pérez-García, Rosario) Controllability of some coupled parabolic systems by one control force. (English and French summaries) **2005h:93088**
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Jourani, Abderrahim *see* **Bosch, Paul J. et al., 2005e:49028**
Kappos, Efthimios A geometric approach to linear and nonlinear achievable dynamics. (English summary) **2005e:93034**
Karwowski, Witold (*with* Vilela Mendes, Rui) Quantum control in infinite dimensions. (English summary) **2005a:81084**
Kellett, Christopher M. (*with* Teel, Andrew R.) Weak converse Lyapunov theorems and control-Lyapunov functions. (English summary) **2005e:34026**
Kerrigan, Eric C. *see* **Raković, S. V. et al., 2005i:93031**
Korobov, V. I. *see* **Choque Rivero, Abdon Eddy et al., 2005f:49084** *and* **2005h:49089**
Kouramas, K. I. *see* **Raković, S. V. et al., 2005i:93031**
Koutsoukos, Xenofon D. (*with* Antsaklis, Panos J.) Safety and reachability of piecewise linear hybrid dynamical systems based on discrete abstractions. (English summary) **2005a:93104**
Krabs, Werner (*with* Pickl, Stefan Wolfgang) ★ Analysis, controllability and optimization of time-discrete systems and dynamical games. **2005b:93003**
Kumpf, Michael (*with* Nickel, Gregor) Dynamic boundary conditions and boundary control for the one-dimensional heat equation. (English summary) **2005e:93077**
Lara-Rosano, F. *see* **Dong, Shi-Hai et al., 2005c:81240**
Ledyaev, Yu. S. On an infinite-dimensional variant of the Rashevskiĭ-Chow theorem. (Russian) **2005k:93011**
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— Exact controllability of quasilinear hyperbolic equations (or systems). (Chinese)
— Exact boundary controllability of unsteady flows in a network of open canals. (English summary) **2005h:93090**
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Madhavan, K. P. *see* **Shah, Sunil S., 2005g:49060**
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Maĭlybaev, A. A. *see* **García-Planas, Ma. Isabel, 2005c:15020**
Malisoff, Michael (*with* Sontag, Eduardo D.) Asymptotic controllability and input-to-state stabilization: the effect of actuator errors. (English summary) **2005g:93096**
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Mehrenberger, Michel Critical length for a Beurling type theorem. (English and Italian summaries) **2005i:42009**
de Menezes, Silvano Bezerra (*with* Límaco, J.; Medeiros, Luis Adauto) Finite approximate controllability for semilinear heat equations in noncylindrical domains. (English and Portuguese summaries) **2005c:35027**
Mesbahi, Mehran On state-dependent dynamic graphs and their controllability properties. (English summary) **2005i:93061**
Milton, John G. *see* **Cabrera, Juan Luis**
Mohades, Ali (*with* Shiri, Mohammad Ebrahim; Razzazi, Mohammadreza) The reachability problem in a concave region: a new context. (English summary) **2005e:68233**
Mohammadi, Bijan Sensitivity analysis and control in an elastic CAD-free framework for multi-model configurations. **2005d:74012**
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Prepeliţă, Valeriu (*with* Drăguşin, Constantin) The duality principle in a class of 2D continuous-discrete linear systems. (English summary) **2005d:93076**
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Raković, S. V. (*with* Kerrigan, Eric C.; Kouramas, K. I.; Mayne, D. Q.) Invariant approximation of the minimal robust positively invariant set. (English summary) **2005i:93031**
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Romito, Marco Ergodicity of the finite dimensional approximation of the 3D Navier-Stokes equations forced by a degenerate noise. (English summary) **2005a:76128**
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Sánchez, Elena *see* **Coll, Carmen et al., 2005d:93018**; **Bru, Rafael et al., 2005d:93026** *and* **Cantó, Begoña et al., 2005i:93055**
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Semenova, M. M. Controllability and observability of manipulators with elastic joints. (Russian. Russian summary)
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Shiri, Mohammad Ebrahim *see* **Mohades, Ali et al., 2005e:68233**
Sirotin, A. N. (*with* Formal'skiĭ, A. M.) Reachability and controllability of discrete systems under magnitude- and impulse-constrained control actions. (Russian. Russian summary) **2005g:93010**
— *see also* **Formal'skiĭ, A. M., 2005d:93086**
Skorik, V. A. *see* **Choque Rivero, Abdon Eddy et al., 2005f:49084** *and* **2005h:49089**
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Sun, Zhendong Sampling and control of switched linear systems. (English summary) **2005f:93116**
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Tello, José Ignacio *see* **Díaz Díaz, Jesús Ildefonso, 2005f:92004**
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Tukhtasinov, M. *see* **Satimov, N. Yu., 2005e:93073**
Turinici, Gabriel (*with* Rabitz, Herschel) Wavefunction controllability for finite-dimensional bilinear quantum systems. (English summary) **2005a:81275**
— (*with* Ramakhrishna, Viswanath; Li, Baiqing; Rabitz, Herschel) Optimal discrimination of multiple quantum systems: controllability analysis. (English summary) **2005h:81441**
Ushio, Toshimitsu *see* **Takai, Shigemasa, 2005h:93106**
Vancostenoble, Judith *see* **Cannarsa, Piermarco et al., 2005h:93086**
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Yu, Xian Sheng *see* **Ji, Xing Min et al.**
Yuan, Cheng Gui (*with* Mao, Xuerong) Robust stability and controllability of stochastic differential delay equations with Markovian switching. (English summary) **2005m:93118**
Zhang, Qing Ling (*with* Zhang, Xiu Hua; Dai, Guan-Zhong) Linearizing approach to decentralized controllability. (English summary) **2005b:93008**
Zhang, Si Ying *see* **Han, Zhi Tao et al.**
Zhang, Xiu Hua *see* **Zhang, Qing Ling et al., 2005b:93008**
Zhu, Hong Liang Controllability of economic growth models with time delay. (Chinese. English and Chinese summaries)
Zuber, I. E. Terminal control for nonstationary discrete systems. (English summary) **2005f:93110**

Items listed otherwise than by author

Lecture Notes in Economics and Mathematical Systems *see* **Krabs, Werner, 2005b:93003**

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Abdursul, Rixat (*with* Inaba, Hiroshi; Ghosh, Bijoy K.) Nonlinear observers for perspective time-invariant linear systems. (English summary) **2005m:93019**
Ammar, Sabeur (*with* Vivalda, Jean-Claude) On the preservation of observability under sampling. (English summary) **2005b:93024**
— (*with* Vivalda, Jean-Claude) On the genericity of the observability of controlled discrete-time systems. (English summary) **2005m:93020**
Arcak, Murat (*with* Kokotović, Petar V.) Nonlinear observers: a circle criterion design and robustness analysis. (English summary)
— *see also* **Praly, Laurent, 2005d:93024**
Astorga, C. *see* **Nadri, M. et al., 2005h:93026**
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Besançon, Gildas (*with* Battilotti, Stefano; Lanari, Leonardo) A new separation result for a class of quadratic-like systems with application to Euler-Lagrange models. (English summary)
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Čelikovský, Sergej Observer form of the hyperbolic-type generalized Lorenz system and its use for chaos synchronization. (English summary) **2005i:93017**
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Chen, Wen De *see* **Zhuo, Zhibing**
Chen, Xinkai (*with* Kano, Hiroyuki[1]) State observer for a class of nonlinear systems and its application to machine vision. (English summary) **2005g:93019**
— (*with* Zhai, Guisheng; Fukuda, Toshio) An approximate inverse system for nonminimum-phase systems and its application to disturbance observer. (English summary) **2005a:93026**
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Chiamtac, I. *see* **Zeng, Guoping et al., 2005f:93027**
Chung, Tai M. *see* **Park, Jong-Koo et al.**
Coll, Carmen (*with* Fullana, Màrius J.; Sánchez, Elena) Reachability and observability indices of a discrete-time periodic descriptor system. (English summary) **2005d:93018**
Delgado Romero, Emma (*with* Barreiro Blas, Antonio) Sonar-based robot navigation using nonlinear robust observers. (English summary)
Demetriou, Michael A. Natural second-order observers for second-order distributed parameter systems. (English summary) **2005b:93025**
Dmitruk, N. M. *see* **Gabasov, R. et al., 2005i:93018**
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Emel'yanov, Stanislav Vasil'evich (*with* Korovin, Sergeĭ Konstantinovich) Observers and output differentiators in uncertain systems. (English summary) **2005e:93023**
Farza, M. (*with* M'Saad, M.; Rossignol, L.) Observer design for a class of MIMO nonlinear systems. (English summary) **2005m:93022**
Fattouh, Anas (*with* Sename, Olivier) A model matching solution of robust observer design for time-delay systems. (English summary) **2005e:93024**
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Fomichev, V. V. *see* **Korovin, Sergeĭ Konstantinovich et al., 2005h:93024** *and* **2005m:93024**
Fu, Yan Ming (*with* Zhang, Peng[5]; Duan, Guang Ren) Design of state observer for a class of linear time-delay systems. (Chinese. English and Chinese summaries)
Fukuda, Toshio *see* **Chen, Xinkai et al., 2005a:93026**
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Gabasov, R. (*with* Dmitruk, N. M.; Kirillova, F. M.) Optimal conditionally relative observation of time-dependent linear systems. (Russian. Russian summary) **2005i:93018**
Gaĭduk, A. R. Estimation of the state variables of nonlinear systems. (Russian. Russian summary) **2005d:93019**
Gaĭshun, I. V. Remarks on observable linear total differential equations. (Russian. Russian summary) **2005d:93020**
Garrido-Moctezuma, R. *see* **Martínez-Guerra, R. et al., 2005m:93025**
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Jacob, Birgit (*with* Partington, Jonathan R.) Admissible control and observation operators for Volterra integral equations. (English summary) **2005i:93019**
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Johansson, Andreas (*with* Medvedev, Aleksandr Vladislavovich) An observer for systems with nonlinear output map. (English summary)
Kano, Hiroyuki[1] *see* **Chen, Xinkai, 2005g:93019**
Kapustyan, Olena A. (*with* Nakonechnyĭ, A. G.) Minimax problems of pointwise observation for a parabolic boundary value problem. (Russian. English, Russian and Ukrainian summaries) **2005h:93023**
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Kokotović, Petar V. *see* **Arcak, Murat**
Korovin, Sergeĭ Konstantinovich (*with* Il'in, A. V.; Fomichev, V. V.; Khlavenka, A.) Asymptotic observers of the state of uncertain vector linear systems. (Russian) **2005h:93024**
— (*with* Fomichev, V. V.) Asymptotic observers for certain classes of bilinear systems with linear output. (Russian) **2005m:93024**
— *see also* **Emel'yanov, Stanislav Vasil'evich, 2005e:93023**
Krasnova, Svetlana Anatol'evna Cascade design of a state observer for nonlinear systems under external perturbations. (Russian. Russian summary) **2005f:93021**
Krener, Arthur J. (*with* Xiao, MingQing) Observers for linearly unobservable nonlinear systems. (English summary) **2005d:93021**
— (*with* Xiao, MingQing) Erratum: "Nonlinear observer design in the Siegel domain" [SIAM J. Control Optim. **41** (2002), no. 3, 932–953 (electronic); MR1939877 (2003k:93020)]. (English summary) **2005c:93017**
Lanari, Leonardo *see* **Besançon, Gildas et al.**
Li, Wen Lin (*with* Quan, Sheng Hui; Liu, Guo Hua) Adaptive neural network control based on observer for a class of nonlinear systems. (Chinese. English and Chinese summaries)
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Liu, Man (*with* Jing, Yuan Wei; Zhang, Si Ying) Design of D-stable robust state observer for delta operator systems. (Chinese. English and Chinese summaries)
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Menini, Laura (*with* Tornambè, Antonio) Velocity observers for non-linear mechanical systems subject to non-smooth impacts. (English summary)
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Partington, Jonathan R. *see* **Jacob, Birgit, 2005i:93019**
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Praly, Laurent (*with* Arcak, Murat) A relaxed condition for stability of nonlinear observer-based controllers. (English summary) **2005d:93024**
Quan, Sheng Hui (*with* Li, Wen Lin) Observer design based on time-delay systems with nonlinear disturbance. (Chinese. English and Chinese summaries)
— *see also* **Li, Wen Lin et al.**
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Serrani, Andrea *see* **Marconi, Lorenzo et al., 2005h:93025**
Shao, Hui He *see* **Zhang, Li Qun**

Shcheglova, A. A. Observability of degenerate linear hybrid systems with constant coefficients. (Russian. Russian summary) **2005h:93030**
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Sun, Xi Ming (*with* Chen, Bing[2]; Sun, Wen An; Zhao, Jun[2]) Design of delay-dependent observer for a class of neutral delay. (Chinese. English and Chinese summaries)
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— New results on general observers for nonlinear systems. (English summary) **2005f:93025**
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Wang, Xin Hua[1] (*with* Chen, Zeng Qiang; Yuan, Zhu Zhi) Output tracking based on extended observer for nonlinear uncertain systems. (Chinese. English and Chinese summaries)
Wang, Zhan Shan (*with* Zhang, Hua Guang) Performance of fault estimation for a class of adaptive observers. (Chinese. English and Chinese summaries)
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Xu, Sheng Yuan (*with* Shi, Peng; Feng, Chunmei; Guo, Yiqian; Zou, Yun) Robust observers for a class of uncertain nonlinear stochastic systems with state delays. (English summary) **2005g:93020**
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Zeng, Guoping (*with* Chlamtac, I.; Su, Yi) Nonlinear observers for two classes of perturbed systems. (English summary) **2005f:93027**
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Akgül, Murat *see* **Morgül, Ömer et al., 2005f:94036**
Ammari, Kais (*with* Jellouli, Mohamed) Stabilization of star-shaped networks of strings. (English summary) **2005h:93127**
Arcak, Murat Certainty-equivalence output-feedback design with circle-criterion observers. (English summary) **2005m:93059**
Babaali, Mohamed (*with* Egerstedt, Magnus B.; Kamen, Edward W.) A direct algebraic approach to observer design under switching measurement equations. (English summary) **2005g:93073**
Bao, Sheng (*with* Feng, Yong[2]; Sun, Li Xia) Design of robust sliding mode observer for nonlinear uncertain systems. (Chinese. English and Chinese summaries)
Barreiro Blas, Antonio *see* **Delgado Romero, Emma, 2005d:93099**
Beck, Carolyn (*with* D'Andrea, Raffaello) Noncommuting multidimensional realization theory: minimality, reachability, and observability. (English summary) **2005e:93029**
Bounit, Hamid (*with* Idrissi, Abdelali) Regular bilinear systems. (English summary) **2005j:93043**
Bowong, Samuel (*with* Moukam Kakmeni, F. M.; Tchawoua, Clement) Controlled synchronization of chaotic systems with uncertainties via a sliding mode control design. (English summary) **2005k:93038**
Bullo, Francesco Trajectory design for mechanical control systems: from geometry to algorithms. (English summary) **2005c:70033**
Byerly, Robert E. (*with* Drager, Lance D.; Lee, Jeffrey M.) Observability of permutations, and stream ciphers. (English summary) **2005a:94011**
Cannarsa, Piermarco (*with* Martinez, Patrick; Vancostenoble, Judith) Null controllability of the heat equation in unbounded domains by a finite measure control region. (English summary) **2005h:93086**
Carreño, Ramón *see* **López, Inmaculada et al., (2005d:92001)**
(Choi, Jae Rong) *see* **Rabah, Rabah, 2005b:93080**
Chudinov, K. M. On stability with respect to part of the variables of linear autonomous systems with aftereffect. (Russian) **2005f:34208**
Clarke, Francis H. Lyapunov functions and feedback in nonlinear control. (English summary) **2005j:93034**
Condon, M. (*with* Ivanov, Rossen I.) Empirical balanced truncation of nonlinear systems. (English summary) **2005m:93009**
Costa, Eduardo F. (*with* do Val, João B. R.; Fragoso, Marcelo D.) On a detectability concept of discrete-time infinite Markov jump linear systems. (English summary) **2005k:90200**
Costa, Ramon R. *see* **Imai, Alvaro K. et al., 2005j:93044**
Dáger, René Observation and control of vibrations in tree-shaped networks of strings. (English summary) **2005c:93042**
D'Andrea, Raffaello *see* **Beck, Carolyn, 2005e:93029**
Darouach, M. Linear functional observers for systems with delays in state variables: the discrete-time case. (English summary)
Delfour, Michel C. Addendum and remarks on doubly conservative numerical schemes for the nonlinear Schrödinger equation and its control: "Finite-difference solutions of a nonlinear Schrödinger equation" [J. Comput. Phys. **44** (1981), no. 2, 277–288; MR0645840 (83c:65195)] by Delfour, M. Fortin and G. Payre. (English summary) **2005a:65082**
Delgado Romero, Emma (*with* Barreiro Blas, Antonio) Sonar-based robot navigation using non-linear robust discrete-time observers. (English summary) **2005d:93099**
Dochain, Denis *see* **Rapaport, Alain**
Drager, Lance D. *see* **Byerly, Robert E. et al., 2005a:94011**
Drăguşin, Constantin *see* **Prepeliţă, Valeriu, 2005d:93076**
Egerstedt, Magnus B. *see* **Babaali, Mohamed et al., 2005g:93073**
Espinosa-Pérez, Gerardo *see* **Maya-Ortiz, Paul, 2005c:93091** *and* **Ibarra-Rojas, Sebastian et al.**
Fausett, Laurene V. (*with* Murty, Kanuri N.) Controllability, observability and realizability criteria on time scale dynamical systems. (English summary) **2005e:93013**
Feng, Yong[2] *see* **Bao, Sheng et al.**
Fernández Cara, Enrique (*with* de Teresa, Luz) Null controllability of a cascade system of parabolic-hyperbolic equations. (English summary) **2005f:93011**
Förster, Karl-Heinz (*with* Nagy, Béla[2]) Connections between realizations of a transfer function. (English summary) **2005i:93023**
(Fortin, Michel) *see* **Delfour, Michel C., 2005a:65082**
Fragoso, Marcelo D. *see* **Costa, Eduardo F. et al., 2005k:90200**
Francfort, Gilles A. (*with* Gérard, Patrick) The wave equation on a thin domain: energy density and observability. (English summary) **2005d:35148**
Gaĭshun, I. V. (*with* Goryachkin, V. V.) Minimal realization of completely solvable linear differential systems of observation. (Russian. Russian summary) **2005j:93017**
— Observability and identification of the states of two-parameter discrete system over a commutative ring. (Russian. Russian summary) **2005h:93099**
Gaĭshun, L. N. (*with* Goryachkin, V. V.; Krakhotko, V. V.) Decomposition of completely solvable discrete time-independent observation systems. (Russian. English and Russian summaries)
(Galeani, S.) *see* **Varga, Andras**
Gámez, Manuel *see* **López, Inmaculada et al., (2005d:92001)**
Ganguli, Ankur *see* **Rajamani, Rajesh, 2005d:93043**
Gérard, Patrick *see* **Francfort, Gilles A., 2005d:35148**
Goryachkin, V. V. *see* **Gaĭshun, I. V., 2005j:93017** *and* **Gaĭshun, L. N. et al.**
(Grasselli, O. M.) *see* **Varga, Andras**
Hsu, Liu *see* **Imai, Alvaro K. et al., 2005j:93044**
Ibarra-Rojas, Sebastian (*with* Moreno, Jaime A.; Espinosa-Pérez, Gerardo) Global observability analysis of sensorless induction motors. (English summary)
Ibrir, Salim (*with* Xie, Wen Fang[1]; Su, Chun-Yi) Observer-based control of discrete-time Lipschitzian non-linear systems: application to one-link flexible joint robot. (English summary)
Idrissi, Abdelali *see* **Bounit, Hamid, 2005j:93043**
Imai, Alvaro K. (*with* Costa, Ramon R.; Hsu, Liu; Tao, Gang; Kokotović, Petar V.) Multivariable adaptive control using high-frequency gain matrix factorization. (English summary) **2005j:93044**
Imanuvilov, Oleg Yurievich (*with* Yamamoto, Masahiro) Carleman estimates for the non-stationary Lamé system and the application to an inverse problem. (English summary) **2005k:35429**
Ivanov, Rossen I. *see* **Condon, M., 2005m:93009**
Jacob, Birgit (*with* Zwart, Hans) Counterexamples concerning observation operators for C_0-semigroups. (English summary) **2005f:93086**
Jellouli, Mohamed *see* **Ammari, Kais, 2005h:93127**
Ji, Xing Min (*with* Yu, Xian Sheng; Wang, Hong[5]) Nonlinear control systems on a pseudo-sphere. (Chinese. English and Chinese summaries)
Kamen, Edward W. *see* **Babaali, Mohamed et al., 2005g:93073**
Kokotović, Petar V. *see* **Imai, Alvaro K. et al., 2005j:93044**
Komornik, Vilmos (*with* Loreti, Paola) A further note on a theorem of Ingham and simultaneous observability in critical time. (English summary) **2005i:93051**
Krakhotko, V. V. *see* **Gaĭshun, L. N. et al.**
(Kwun, Young Chel) *see* **Rabah, Rabah, 2005b:93080**
Łada, Andrzej (*with* Sidz, Leszek) Stable Dirichlet observability and controllability for the evolution isotropic Lame system with variable coefficients. (English summary) **2005c:93012**
Lee, Jeffrey M. *see* **Byerly, Robert E. et al., 2005a:94011**
Lhous, M. *see* **Rachik, Mostafa et al., 2005d:93107**
Li, Han-Xiong *see* **Tong, Shao Cheng et al., 2005h:93097**
Li, Xiaohong *see* **Yuan, Zhong Hu et al.**
Lien, Chang-Hua Robust observer-based control of systems with state perturbations via LMI approach. (English summary) **2005d:93128**
Lin, Wei[2] *see* **Yang, Bo[7], 2005d:93069**
Liu, Wan Quan *see* **Xing, Wei[1] et al., (2005m:90002)**
(Longhi, S.) *see* **Varga, Andras**
López, Inmaculada (*with* Gámez, Manuel; Carreño, Ramón; Varga, Zoltán) Recovering

genetic processes from phenotypic observation. (English summary) (*see* **2005d:92001**)
Loreti, Paola *see* **Komornik, Vilmos**, **2005i:93051**
Lynch, Alan F. *see* **Röbenack, Klaus**, **2005b:93027**
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Martinez, Patrick *see* **Cannarsa, Piermarco et al.**, **2005h:93086**
Martínez-Guerra, R. (*with* Mendoza-Camargo, Juan) Observers for a class of Liouvillian and, non-differentially flat systems. (English summary) **2005f:93036**
Maya-Ortiz, Paul (*with* Espinosa-Pérez, Gerardo) Output feedback excitation control of synchronous generators. (English summary) **2005c:93091**
Mendoza-Camargo, Juan *see* **Martínez-Guerra, R.**, **2005f:93036**
Middleton, Richard H. *see* **Zhivoglyadov, Peter V.**
Miller, Luc Geometric bounds on the growth rate of null-controllability cost for the heat equation in small time. (English summary) **2005f:93018**
— Controllability cost of conservative systems: resolvent condition and transmutation. (English summary) **2005i:93015**
— Unique continuation estimates for the Laplacian and the heat equation on non-compact manifolds. (English summary) **2005k:58046**
Mitter, Sanjoy K. *see* **Tatikonda, Sekhar**, **2005b:93105** *and* **2005c:90015**
Moog, Claude H. *see* **Xia, Xiaohua et al.**, **2005k:93046**
Moreno, Jaime A. *see* **Ibarra-Rojas, Sebastian et al.**
Morgül, Ömer (*with* Solak, Ercan; Akgül, Murat) Observer based chaotic message transmission. (English summary) **2005f:94036**
Moukam Kakmeni, F. M. *see* **Bowong, Samuel et al.**, **2005k:93038**
Murty, Kanuri N. *see* **Fausett, Laurene V.**, **2005e:93013**
Nagy, Béla[2] *see* **Förster, Karl-Heinz**, **2005i:93023**
Negreanu, Mihaela (*with* Zuazua, Enrique) Discrete Ingham inequalities and applications. (English and French summaries) **2005b:93021**
Nijmeijer, Henk *see* **Putra, Devi**, **2005f:93120**
(Park, Jong Seo) *see* **Rabah, Rabah**, **2005b:93080**
(Payre, G.) *see* **Delfour, Michel C.**, **2005a:65082**
Petersen, Mark Adam (*with* Raubenheimer, Helgard; van der Walt, Frederik C.; van Rooy, Herrie F., II) Stochastic controllability of linear interest rate models. (English summary) **2005d:93135**
Prepeliţă, Valeriu (*with* Drăguşin, Constantin) The duality principle in a class of 2D continuous-discrete linear systems. (English summary) **2005d:93076**
Pullen, Ivan C. H. *see* **Schirmer, Sonia G. et al.**, (**2005b:93007**)
Putra, Devi (*with* Nijmeijer, Henk) Limit cycling in an observer-based controlled system with friction: numerical analysis and experimental validation. (English summary) **2005f:93120**
Rabah, Rabah Comments on: "Continuous initial observability of nonlinear delay parabolic equations" [Far East J. Appl. Math. **10** (2003), no. 1, 15–28; MR1978071 (2004c:93057)] by J. R. Choi, Y. C. Kwun, and J. S. Park. (English summary) **2005b:93080**
Rachik, Mostafa (*with* Lhous, M.; Tridane, A.) The admissible disturbance for discrete nonlinear perturbed controlled systems. (English summary) **2005d:93107**
Rajamani, Rajesh (*with* Ganguli, Ankur) Sensor fault diagnostics for a class of non-linear systems using linear matrix inequalities. (English summary) **2005d:93043**
Rapaport, Alain (*with* Dochain, Denis) Interval observers for biochemical processes with uncertain kinetics and inputs. (English summary)
Raubenheimer, Helgard *see* **Petersen, Mark Adam et al.**, **2005d:93135**
Ren, Baili *see* **Yuan, Zhong Hu et al.**
Röbenack, Klaus (*with* Lynch, Alan F.) An efficient method for observer design with approximately linear error dynamics. (English summary) **2005b:93027**
van Rooy, Herrie F., II *see* **Petersen, Mark Adam et al.**, **2005d:93135**
Rouchon, Pierre[1] Control of a quantum particle in a moving potential well. (English summary) (*see* **2005b:93007**)
Schirmer, Sonia G. (*with* Pullen, Ivan C. H.; Solomon, Allan I.) Controllability of quantum systems. (English summary) (*see* **2005b:93007**)
Schlacher, Kurt *see* **Zehetleitner, Kurt**, **2005e:34004**
Semenova, M. M. Controllability and observability of manipulators with elastic joints. (Russian. Russian summary)
Shi, Hongyan *see* **Su, Xiaoming et al.**, **2005b:93022**
Shields, D. N. On the effectiveness of high-gain observer-based residuals for a class of nonlinear control systems. (English summary)
Shim, Hyungbo (*with* Teel, Andrew R.) Asymptotic controllability and observability imply semiglobal practical asymptotic stabilizability by sampled-data output feedback. (English summary) **2005k:93026**
Sidz, Leszek *see* **Łada, Andrzej**, **2005c:93012**
Solak, Ercan *see* **Morgül, Ömer et al.**, **2005f:94036**
Solomon, Allan I. *see* **Schirmer, Sonia G. et al.**, (**2005b:93007**)
Stykel, Tatjana Gramian-based model reduction for descriptor systems. (English summary) **2005a:93075**
Su, Chun-Yi *see* **Ibrir, Salim et al.**
Su, Xiaoming (*with* Zhang, Qing Ling; Shi, Hongyan) Infinite controllability and infinite observability of generalized dynamical systems. (English summary) **2005b:93022**
Sun, Li Xia *see* **Bao, Sheng et al.**
Sundarapandian, V. Observer design and stabilization of the dominant state of discrete-time linear systems. (English summary) **2005m:93090**
Tao, Gang *see* **Imai, Alvaro K. et al.**, **2005j:93044**
Tatikonda, Sekhar (*with* Mitter, Sanjoy K.) Control under communication constraints. (English summary) **2005b:93105**
— (*with* Mitter, Sanjoy K.) Control over noisy channels. (English summary) **2005c:90015**
Tchawoua, Clement *see* **Bowong, Samuel et al.**, **2005k:93038**
Teel, Andrew R. *see* **Shim, Hyungbo**, **2005k:93026**
de Teresa, Luz *see* **Fernández Cara, Enrique**, **2005f:93011**
Tong, Shao Cheng (*with* Li, Han-Xiong; Wang, Wei[5]) Observer-based adaptive fuzzy control for SISO nonlinear systems. (English summary) **2005h:93097**
Tridane, A. *see* **Rachik, Mostafa et al.**, **2005d:93107**
Ugrinovskiĭ, V. A. Observability of linear stochastic uncertain systems. (English summary) **2005e:93147**
do Val, João B. R. *see* **Costa, Eduardo F. et al.**, **2005k:90200**
Vancostenoble, Judith *see* **Cannarsa, Piermarco et al.**, **2005h:93086**
Varga, Andras Computation of Kalman decompositions of periodic systems. (English summary)
Varga, Zoltán *see* **López, Inmaculada et al.**, (**2005d:92001**)
(Verriest, Erik I.) *see* **Varga, Andras**
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Wang, Hong[5] *see* **Ji, Xing Min et al.**
Wang, Long[1] *see* **Xie, Guangming**[1], **2005a:93025**
Wang, Qiyi *see* **Xing, Wei**[1] **et al.**, (**2005m:90002**)
Wang, Wei[5] *see* **Tong, Shao Cheng et al.**, **2005h:93097**
Wang, Zhan Shan (*with* Zhang, Hua Guang; Wang, Zhi Liang) Robust capability of disturbance rejection for nonlinear systems satisfying the Lipschitz condition. (Chinese. English and Chinese summaries)
— (*with* Zhang, Hua Guang) Design of adaptive observer for fault estimation. (Chinese. English and Chinese summaries)
Wang, Zhi Liang *see* **Wang, Zhan Shan et al.**
Wong, Kai C. (*with* Wonham, W. M.) On the computation of observers in discrete-event systems. (English summary) **2005b:93118**
Wonham, W. M. *see* **Wong, Kai C.**, **2005b:93118**
Xia, Xiaohua (*with* Márquez-Martínez, Luis Alejandro; Zagalak, Petr; Moog, Claude H.) Analysis of nonlinear time-delay systems using modules over non-commutative rings. (English summary) **2005k:93046**
Xie, Guangming[1] (*with* Wang, Long[1]) Necessary and sufficient conditions for controllability and observability of switched impulsive control systems. (English summary) **2005a:93025**
Xie, Wen Fang[1] *see* **Ibrir, Salim et al.**
Xing, Wei[1] (*with* Zhang, Qing Ling; Liu, Wan Quan; Wang, Qiyi) H_∞ control based on state observer for descriptor systems. (English summary) (*see* **2005m:90002**)
Yamamoto, Masahiro *see* **Imanuvilov, Oleg Yurievich**, **2005k:35429**
Yang, Bo[7] (*with* Lin, Wei[2]) Homogeneous observers, iterative design, and global stabilization of high-order nonlinear systems by smooth output feedback. (English summary) **2005d:93069**
Yu, Xian Sheng *see* **Ji, Xing Min et al.**
Yuan, Zhong Hu (*with* Li, Xiaohong; Ren, Baili) Design of decentralized generalized state observer. (English summary)
Zagalak, Petr *see* **Xia, Xiaohua et al.**, **2005k:93046**
Zehetleitner, Kurt (*with* Schlacher, Kurt) Computer algebra methods for implicit dynamic systems and applications. (English summary) **2005e:34004**
Zhang, Hua Guang *see* **Wang, Zhan Shan et al.**
Zhang, Qing Ling *see* **Su, Xiaoming et al.**, **2005b:93022** *and* **Xing, Wei**[1] **et al.**, (**2005m:90002**)
Zhang, Xu[1] (*with* Zuazua, Enrique) Controllability of nonlinear partial differential equations. (English summary) **2005e:93020**
— (*with* Zuazua, Enrique) Polynomial decay and control of a $1-d$ hyperbolic-parabolic coupled system. (English summary) **2005e:93021**
Zhivoglyadov, Peter V. (*with* Middleton, Richard H.) Networked control design for linear systems. (English summary)
Zuazua, Enrique *see* **Negreanu, Mihaela**, **2005b:93021**; **Zhang, Xu**[1], **2005e:93020** *and* **2005e:93021**
Zwart, Hans *see* **Jacob, Birgit**, **2005f:93086**

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Bru, Rafael (*with* Romero, Sergio; Sánchez, Elena) Structural properties of positive periodic discrete-time linear systems: canonical forms. (English summary) **2005d:93026**
— (*with* Coll, Carmen; Romero, Sergio; Sánchez, Elena) Reachability indices of positive linear systems. (English summary) **2005i:93020**
Carriegos, Miguel V. (*with* Hermida-Alonso, José A.) Canonical forms for single input linear systems. (English summary) **2005k:93033**
Chetverikov, Vladimir N. Higher symmetries and the Brunovský infinitesimal form of controlled systems. (Russian. Russian summary) **2005a:93027**
Coll, Carmen *see* **Bru, Rafael et al.**, **2005i:93020**
Hermida-Alonso, José A. *see* **Carriegos, Miguel V.**, **2005k:93033**
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Kotta, Ülle Controller and controllability canonical forms for discrete-time nonlinear systems. (English and Estonian summaries) **2005k:93034**
Kuo, Yuen-Cheng (*with* Lin, Wen Wei; Xu, Shu-Fang) Regularization of linear discrete-time periodic descriptor systems by derivative and proportional state feedback. (English summary) **2005b:93026**
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Lynch, Alan F. *see* **Röbenack, Klaus**, **2005b:93027**
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Röbenack, Klaus (*with* Lynch, Alan F.) An efficient method for observer design with approximately linear error dynamics. (English summary) **2005b:93027**
Roca Martinez, Alicia (*with* Zaballa, I.) Feedback invariants via output injection. (English summary) **2005b:93028**
Romero, Sergio *see* **Bru, Rafael et al.**, **2005d:93026** *and* **2005i:93020**
Sánchez, Elena *see* **Bru, Rafael et al.**, **2005d:93026** *and* **2005i:93020**
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Xu, Shu-Fang *see* **Kuo, Yuen-Cheng et al.**, **2005b:93026**
Zaballa, I. *see* **Roca Martinez, Alicia**, **2005b:93028**

Zuber, I. E. Canonical transformations and stabilization of nonlinear discrete control systems. (English summary) **2005j:93015**

Items with secondary classifications in 93B10

Back, Juhoon (*with* Seo, Jin Heon) Immersion of non-linear systems into linear systems up to output injection: characteristic equation approach. (English summary) **2005c:93014**
Baragaña, I. (*with* Fernández Gonzalez, Victoria; Zaballa, I.) Hermite indices and equivalence relations. (English summary) **2005b:93074**
van den Boom, Ton J. J. *see* **De Schutter, B., 2005a:93100**
Chen, Ben M. (*with* Lin, Zongli; Shamash, Yacov) ★ Linear systems theory. **2005b:93001**
De Schutter, B. (*with* van den Boom, Ton J. J.) MPC for continuous piecewise-affine systems. (English summary) **2005a:93100**
Devanathan, Rajagopalan Necessary and sufficient conditions for quadratic linearization of a linearly controllable system. (English summary) **2005e:93031**
Drăguşin, Constantin *see* **Prepeliţă, Valeriu, 2005d:93076**
Fernández Gonzalez, Victoria *see* **Baragaña, I. et al., 2005b:93074**
Ignatovich, S. Yu. *see* **Sklyar, Grigory M., 2005h:49084**
Lehenkyi, Victor I. (*with* Rudolph, Joachim) Towards the group classification of control systems. (English summary)
Lin, Zongli *see* **Chen, Ben M. et al., 2005b:93001**
Malabre, Michel *see* **Rabah, Rabah, 2005e:93081**
Moreno, Jaime A. *see* **Vargas, Alejandro, 2005k:93032**
Prepeliţă, Valeriu (*with* Drăguşin, Constantin) The duality principle in a class of 2D continuous-discrete linear systems. (English summary) **2005d:93076**
Rabah, Rabah (*with* Malabre, Michel) Weak structure at infinity and row-by-row decoupling for linear delay systems. (English summary) **2005e:93081**
Rudolph, Joachim *see* **Lehenkyi, Victor I.**
Seo, Jin Heon *see* **Back, Juhoon, 2005c:93014**
Shamash, Yacov *see* **Chen, Ben M. et al., 2005b:93001**
Sklyar, Grigory M. (*with* Ignatovich, S. Yu.) Approximation of time-optimal control problems via nonlinear power moment problems. (English summary) **2005h:49084**
Vargas, Alejandro (*with* Moreno, Jaime A.) Approximate high-gain observers for non-Lipschitz observability forms. (English summary) **2005k:93032**
Zaballa, I. *see* **Baragaña, I. et al., 2005b:93074**
Zuber, I. E. Synthesis of canonical similarity transformations for nonlinear time-dependent dynamical control systems. (Russian. English and Russian summaries) **2005d:93122**

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Anderson, Brian D. O. *see* **Varga, Andras**
Antoulas, Athanasios C. *see* **Gugercin, Serkan, 2005a:93028**
Atwell, Jeanne A. (*with* King, Belinda B.) Reduced order controllers for spatially distributed systems via proper orthogonal decomposition. (English summary) **2005m:93028**
Chen, Xue-Bo (*with* Stanković, Srdjan S.) Dual inclusion principle for overlapping interconnected systems. (English summary) **2005f:93029**
Constantinescu, Aurelian *see* **Landau, Ioan Doré et al.**
Curtain, Ruth F. Model reduction for control design for distributed parameter systems. **2005d:93027**
Dong, Xin Zhuang (*with* Zhang, Qing Ling) Input-output energy decoupling of linear singular systems. (Chinese. English and Chinese summaries)
Feng, Lihong Parameter independent model order reduction. (English summary) **2005k:93036**
Fujimoto, Kenji *see* **Lopezlena Estrada, R. et al., 2005e:93027**
Gallivan, K. (*with* Vandendorpe, A.; Van Dooren, Paul) Sylvester equations and projection-based model reduction. (English summary) **2005g:93021**
Gugercin, Serkan (*with* Antoulas, Athanasios C.) A survey of model reduction by balanced truncation and some new results. (English summary) **2005a:93028**
Karimi, Alireza *see* **Landau, Ioan Doré et al.**
King, Belinda B. *see* **Atwell, Jeanne A., 2005m:93028**
Landau, Ioan Doré (*with* Karimi, Alireza; Constantinescu, Aurelian) Direct controller order reduction by identification in closed loop. (English summary)
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Lopezlena Estrada, R. (*with* Scherpen, Jacquelien M. A.; Fujimoto, Kenji) Energy-storage balanced reduction of port-Hamiltonian systems. (English summary) **2005e:93027**
Scherpen, Jacquelien M. A. *see* **Lopezlena Estrada, R. et al., 2005e:93027**
Sorensen, D. C. Passivity preserving model reduction via interpolation of spectral zeros. (English summary) **2005i:93021**
Stanković, Srdjan S. *see* **Chen, Xue-Bo, 2005f:93029**
Tjärnström, Fredrik (*with* Ljung, Lennart) L_2 model reduction and variance reduction. (English summary) **2005k:93037**
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Van Dooren, Paul *see* **Gallivan, K. et al., 2005g:93021**
Varga, Andras (*with* Anderson, Brian D. O.) Accuracy-enhancing methods for balancing-related frequency-weighted model and controller reduction. (English summary)
Wang, Jing[12] (*with* Liu, Wan Quan; Zhang, Qing Ling; Xin, Xin) $\mathscr{H}_\infty$ suboptimal model reduction for singular systems. (English summary) **2005g:93022**
Xie, Lihua *see* **Yan, Xing Gang**
Xin, Xin *see* **Wang, Jing[12] et al., 2005g:93022**
Yan, Xing Gang (*with* Xie, Lihua) Reduced-order control for a class of nonlinear similar interconnected systems with mismatched uncertainty. (English summary)
Yuan, Zhong Hu *see* **Zhang, Guoshan**
Zhang, Guoshan (*with* Yuan, Zhong Hu) Some new results on the reliable decomposition for linear plants. (English summary)
Zhang, Qing Ling *see* **Wang, Jing[12] et al., 2005g:93022** *and* **Dong, Xin Zhuang**
Zhang, Ren Zhong Linearization with dynamic feedback of affine nonlinear systems and linearizable approximation control of systems. (Chinese. English and Chinese summaries)

Items with secondary classifications in 93B11

Amaral, Wagner C. *see* **Campello, Ricardo J. G. B. et al.**
Becker, Roland (*with* Rannacher, Rolf) Error control for model reduction by discretization in optimal control of flows. **2005e:76039**
Bhikkaji, Bharath (*with* Mahata, Kaushik; Söderström, Torsten) Reduced order models for a two-dimensional heat diffusion system. (English summary) **2005g:93008**
Boudellioua, M. S. (*with* Chentouf, Boumediène) Matrix pencils over a principal ideal domain. (English and Arabic summaries) **2005f:93035**
Campello, Ricardo J. G. B. (*with* Favier, Gérard; Amaral, Wagner C.) Optimal expansions of discrete-time Volterra models using Laguerre functions. (English summary)
Chen, Ben M. (*with* Lin, Zongli; Shamash, Yacov) ★ Linear systems theory. **2005b:93001**
Chentouf, Boumediène *see* **Boudellioua, M. S., 2005f:93035**
(Cockburn, Juan C.) *see* **Hecker, Simon, 2005j:93038**
Delaleau, Emmanuel *see* **Hagenmeyer, Veit**
Ebihara, Yoshio (*with* Hagiwara, Tomomichi) On $\mathscr{H}_\infty$ model reduction using LMIs. (English summary) **2005b:93055**
Favier, Gérard *see* **Campello, Ricardo J. G. B. et al.**
Grasse, Kevin A. Lifting of trajectories of control systems related by smooth mappings. (English summary) **2005j:93039**
Hagenmeyer, Veit (*with* Delaleau, Emmanuel) Robustness analysis of exact feedforward linearization based on differential flatness. (English summary)
Hagiwara, Tomomichi *see* **Ebihara, Yoshio, 2005b:93055**
Haro, Christophe (*with* Martineau, Patrick[2]; Proust, Christian) Une nouvelle transformation des réseaux de Petri généralisés: l'abstraction généralisée. (English and French summaries) [A new transformation of generalized Petri nets: generalized abstraction] **2005e:93096**
Hecker, Simon (*with* Varga, Andras) Generalized LFT-based representation of parametric uncertain models. (English summary) **2005j:93038**
Jiang, Yao-Lin A general approach to waveform relaxation solutions of nonlinear differential-algebraic equations: the continuous-time and discrete-time cases. (English summary)
Lam, James *see* **Zhang, Li Qian[2]**
Lewis, Frank L. *see* **Selmic, Rastko R.**
Lin, Zongli *see* **Chen, Ben M. et al., 2005b:93001**
Liu, Hua Ping[2] (*with* Sun, Fu-Chun; Sun, Zeng Qi) Reduced-order filtering with energy-to-peak performance for discrete-time Markovian jumping systems. (English summary) **2005f:93167**
Mahata, Kaushik *see* **Bhikkaji, Bharath et al., 2005g:93008**
Martineau, Patrick[2] *see* **Haro, Christophe et al., 2005e:93096**
Mittal, R. C. *see* **Mukherjee, Shaktidev et al., 2005b:93100**
Mukherjee, Shaktidev (*with* Satakshi; Mittal, R. C.) Discrete system order reduction using multipoint step response matching. (English summary) **2005b:93100**
Proust, Christian *see* **Haro, Christophe et al., 2005e:93096**
Rannacher, Rolf *see* **Becker, Roland, 2005e:76039**
Rixen, Daniel J. A dual Craig-Bampton method for dynamic substructuring. (English summary)
Rowley, C. W. Model reduction for fluids, using balanced proper orthogonal decomposition. (English summary) **2005k:37201**
Satakshi *see* **Mukherjee, Shaktidev et al., 2005b:93100**
Selmic, Rastko R. (*with* Lewis, Frank L.) Neural net backlash compensation with Hebbian tuning using dynamic inversion. (English summary)
Shamash, Yacov *see* **Chen, Ben M. et al., 2005b:93001**
Shi, C.-J. Richard *see* **Shi, Guoyong, 2005m:68264**
Shi, Guoyong (*with* Shi, C.-J. Richard) Model-order reduction by dominant subspace projection: error bound, subspace computation, and circuit applications. (English summary) **2005m:68264**
Söderström, Torsten *see* **Bhikkaji, Bharath et al., 2005g:93008**
Stykel, Tatjana Gramian-based model reduction for descriptor systems. (English summary) **2005a:93075**
Sun, Fu-Chun *see* **Liu, Hua Ping[2] et al., 2005f:93167**
Sun, Zeng Qi *see* **Liu, Hua Ping[2] et al., 2005f:93167**
Sundarapandian, V. Distributed control schemes for large-scale interconnected discrete-time linear systems. (English summary) **2005i:93056**
Tjärnström, Fredrik Variance analysis of L_2 model reduction when undermodeling—the output error case. (English summary)
Tsourdos, Antonios (*with* White, Brian A.) Missile autopilot design via approximate nonlinear dynamic inversion. (English summary) **2005a:93116**
Van Dooren, Paul *see* **Varga, Andras, 2005a:93067**
Varga, Andras (*with* Van Dooren, Paul) Computing the zeros of periodic descriptor systems. (English summary) **2005a:93067**
— *see also* **Hecker, Simon, 2005j:93038**
Vasil'ev, V. I. The reduction principle in pattern recognition problems. II. (Russian. English and Ukrainian summaries) **2005m:68184**
White, Brian A. *see* **Tsourdos, Antonios, 2005a:93116**
Zhang, Li Qian[2] (*with* Lam, James) On H_2 model reduction of bilinear systems. (English summary)

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Bao, Sheng (*with* Feng, Yong[2]; Sun, Li Xia) Design of robust sliding mode observer for nonlinear uncertain systems. (Chinese. English and Chinese summaries)
Barbot, Jean-Pierre *see* **Floquet, Thierry et al., 2005a:93031**
Bartolini, Giorgio (*with* Pisano, Alessandro; Usai, Elio) Second-order sliding-mode control of container cranes. (English summary)
— (*with* Punta, Elisabetta; Zolezzi, Tullio) Simplex methods for nonlinear uncertain sliding-mode control. (English summary) **2005a:93029**
— (*with* Pisano, Alessandro; Usai, Elio) An improved second-order sliding-mode control scheme robust against the measurement noise. (English summary) **2005d:93028**
Boiko, Igor (*with* Fridman, Leonid M.; Castellanos, M. I.) Analysis of second-order sliding-mode algorithms in the frequency domain. (English summary) **2005a:93030**

Bonilla Estrada, Moisés (*with* Malabre, Michel) On the control of linear systems having internal variations. (English summary)
Bowong, Samuel (*with* Moukam Kakmeni, F. M.; Tchawoua, Clement) Controlled synchronization of chaotic systems with uncertainties via a sliding mode control design. (English summary) **2005k:93038**
Burnham, Keith J. *see* **Koshkouei, Ali J.**
Cao, Wen-Jun (*with* Xu, Jian-Xin) Nonlinear integral-type sliding surface for both matched and unmatched uncertain systems. (English summary) **2005b:93029**
Castellanos, M. I. *see* **Boiko, Igor et al., 2005a:93030**
Castillo-Toledo, B. *see* **Luk′yanov, A. G. et al., 2005b:93034**
Chandra, Jagdish *see* **Lu, Zhao et al., 2005a:93033**
Chen, Guanrong *see* **Lu, Zhao et al.**
Chen, P. C. (*with* Huang, A. C.) Adaptive multiple-surface sliding control of hydraulic active suspension systems based on the function approximation technique. (English summary)
Chen, Zeng Qiang *see* **Wang, Xin Hua[1] et al., 2005i:93022**
Cheng, Dai Zhan *see* **Hong, Yiguang et al., 2005d:93029**
Christofides, Panagiotis D. *see* **Orlov, Yuri V. et al., 2005e:93028**
Coleman, Norman P. *see* **Lu, Zhao et al.**
Corradini, Maria Letizia (*with* Orlando, Giuseppe) Authors' reply to: "Comments on: 'Variable structure control of discretized continuous-time systems'" [IEEE Trans. Automat. Control **50** (2005), no. 4, 538–540; MR2125444] by N. V. Paranjpe and S. B. Phadke.
— *see also* **Paranjpe, N. V.**
Cui, Bao Tong (*with* Wang, Wei[8]; Deng, Fei Qi) Variable structure control of a class of distributed parameter systems with delays. (Chinese. English and Chinese summaries)
Dai, Wen Zhan *see* **Pan, Hai Peng**
De Battista, H. *see* **Picó-Marco, E. et al.**
Deng, Fei Qi *see* **Cui, Bao Tong et al.**
Dey, Sitansu *see* **Ray, Goshaidas, 2005f:93030**
Diong, Bill M. Sliding-mode control design for a class of systems with non-matching nonlinearities and disturbances. (English summary) **2005b:93030**
Djemai, M. *see* **Floquet, Thierry et al., 2005a:93031**
Dzhafarov, É. M. Robust sliding mode control of multivariable time-delay systems. (English summary) **2005b:93031**
— *see also* **Parlakci, M. N. A. et al.**
Edwards, Christopher *see* **Yan, Xing Gang et al., 2005f:93031** *and* **Tan, Chee Pin**
Efe, Mehmet Önder (*with* Ünsal, Cem; Kaynak, Okyay; Yu, Xinghuo) Variable structure control of a class of uncertain systems. (English summary) **2005m:93029**
Escoto Hernández, Jaime *see* **Luk′yanov, A. G. et al., 2005b:93034**
Feng, Yong[2] (*with* Yu, Xinghuo; Man, Zhihong) Non-singular terminal sliding mode control of rigid manipulators. (English summary)
— *see also* **Bao, Sheng et al.** *and* **Zhang, Niao Na et al.**
Ferrara, Antonella A variable structure convex programming based control approach for a class of uncertain linear systems. (English summary) **2005m:93030**
Finogenko, I. A. On sliding regimes of controlled discontinuous systems with aftereffect. (Russian. Russian summary) **2005g:93023**
Floquet, Thierry (*with* Barbot, Jean-Pierre; Perruquetti, Wilfrid) Higher-order sliding mode stabilization for a class of nonholonomic perturbed systems. (English summary)
— (*with* Barbot, Jean-Pierre; Perruquetti, Wilfrid; Djemai, M.) On the robust fault detection via a sliding mode disturbance observer. (English summary) **2005a:93031**
Fridman, Leonid M. *see* **Boiko, Igor et al., 2005a:93030**
Greco, Luca *see* **Innocenti, M. et al.**
Guo, Xiao Jun (*with* Hu, Yun An; Wang, Jing Ye) Design of multi-surface sliding mode controller for a class of nonlinear systems. (Chinese. English and Chinese summaries) **2005a:93032**
Hong, Yiguang (*with* Yang, Guowu; Cheng, Dai Zhan; Spurgeon, Sarah K.) Finite time convergent control using terminal sliding mode. (English summary) **2005d:93029**
Hu, Yun An *see* **Guo, Xiao Jun et al., 2005a:93032**
Huang, A. C. *see* **Chen, P. C.**
Innocenti, M. (*with* Greco, Luca; Pollini, L.) Sliding mode control for two-time scale systems: stability issues. (English summary)
Istefanopulos, Y. *see* **Parlakci, M. N. A. et al.**
Jing, Yuan Wei *see* **Liu, Hui Ming et al.**
Kaynak, Okyay *see* **Efe, Mehmet Önder et al., 2005m:93029**
Kim, Kyung-Soo (*with* Park, Youngjin) Sliding mode design via quadratic performance optimization with pole-clustering constraint. (English summary) **2005h:93032**
Koshkouei, Ali J. (*with* Burnham, Keith J.) Adaptive sliding mode backstepping output tracking controllers for feedforward uncertain systems. (English summary)
— (*with* Zinober, Alan S. I.) Sliding mode state observation for non-linear systems. (English summary) **2005b:93032**
Kwatny, Harry G. (*with* Teolis, Carole; Mattice, M.) Variable structure control of systems with uncertain nonlinear friction. (English summary)
Levant, Arie Higher-order sliding modes, differentiation and output-feedback control. (English summary) **2005b:93033**
Li, Wen Lin Reaching law of discrete-time variable structure control systems. (Chinese. English and Chinese summaries)
Liao, Teh-Lu *see* **Lin, Jui-Sheng et al.**
Lin, Jui-Sheng (*with* Yan, Jun-Juh; Liao, Teh-Lu) Chaotic synchronization via adaptive sliding mode observers subject to input nonlinearity. (English summary)
Liu, Hui Ming (*with* Jing, Yuan Wei; Zhang, Si Ying) Variable structure model-following control for a class of uncertain linear composite systems. (Chinese. English and Chinese summaries)
Lou, Yiming *see* **Orlov, Yuri V. et al., 2005e:93028**
Lu, Zhao (*with* Shieh, Leang-San; Chandra, Jagdish) Tracking control of nonlinear systems: a sliding mode design via chaotic optimization. (English summary) **2005a:93033**
— (*with* Shieh, Leang-San; Chen, Guanrong; Coleman, Norman P.) Simplex sliding mode control for nonlinear uncertain systems via chaos optimization. (English summary)
Luk′yanov, A. G. (*with* Castillo-Toledo, B.; Escoto Hernández, Jaime; Núñez-Perez, E.) On the problem of tracking for a class of linear systems with delays and sliding modes. (English summary) **2005b:93034**
Ma, Xiao Ping *see* **Wang, Hong Jun[2]**
Malabre, Michel *see* **Bonilla Estrada, Moisés**
Man, Zhihong *see* **Feng, Yong[2] et al.**
Mattice, M. *see* **Kwatny, Harry G. et al.**
Matvīĭchuk, K. S. Stability of time-dependent automatic control systems with variable structure under forced motion. (Russian. English and Ukrainian summaries) **2005d:93030**
Moukam Kakmeni, F. M. *see* **Bowong, Samuel et al., 2005k:93038**
Núñez-Perez, E. *see* **Luk′yanov, A. G. et al., 2005b:93034**
Orlando, Giuseppe *see* **Paranjpe, N. V.** *and* **Corradini, Maria Letizia**
Orlov, Yuri V. (*with* Lou, Yiming; Christofides, Panagiotis D.) Robust stabilization of infinite-dimensional systems using sliding-mode output feedback control. (English summary) **2005e:93028**
Pan, Hai Peng (*with* Dai, Wen Zhan) Staged output variable structure control of feedback linearizable nonlinear system. (Chinese. English and Chinese summaries)
Paranjpe, N. V. (*with* Phadke, S. B.) Comments on: "Variable structure control of discretized continuous-time systems" [IEEE Trans. Automat. Control **43** (1998), no. 9, 1329–1334; MR1640113] by M. L. Corradini and G. Orlando. (English summary)
— *see also* **Corradini, Maria Letizia**
Park, Youngjin *see* **Kim, Kyung-Soo, 2005h:93032**
Parlakci, M. N. A. (*with* Dzhafarov, É. M.; Istefanopulos, Y.) PD-sliding mode controller for robot manipulators: a comparison analysis. (English summary)
Perruquetti, Wilfrid *see* **Floquet, Thierry et al., 2005a:93031**
Phadke, S. B. *see* **Paranjpe, N. V.** *and* **Corradini, Maria Letizia**
Picó, Jesús *see* **Picó-Marco, E. et al.**
Picó-Marco, E. (*with* Picó, Jesús; De Battista, H.) Sliding mode scheme for adaptive specific growth rate control in biotechnological fed-batch processes. (English summary)
Pisano, Alessandro *see* **Bartolini, Giorgio et al., 2005d:93028**
Pollini, L. *see* **Innocenti, M. et al.**
Punta, Elisabetta *see* **Bartolini, Giorgio et al., 2005a:93029**
Qu, Shao Cheng (*with* Wang, Yong Ji) Robust sliding mode control for uncertain discrete time systems. (English summary)
— (*with* Wang, Yong Ji) Sliding mode control for a class of systems with mismatched uncertainties. (Chinese. English and Chinese summaries)
Ray, Goshaidas (*with* Dey, Sitansu) Design of reaching phase for variable structure controller based on SVD method. (English summary) **2005f:93030**
Reithmeier, Eduard Robust real- and discrete-time control of a steer-by-wire system in cars. (English summary) (*see* **2005b:93006**)
Shieh, Leang-San *see* **Lu, Zhao et al., 2005a:93033**
Shkolnikov, Ilya A. (*with* Shtessel′, Yu. B.) Tracking in a class of nonminimum-phase systems with nonlinear internal dynamics via sliding mode control using method of system center. (English summary)
— *see also* **Shtessel′, Yu. B. et al.**
Shtessel′, Yu. B. (*with* Zinober, Alan S. I.; Shkolnikov, Ilya A.) Sliding mode control of boost and buck-boost power converters using method of stable system centre. (English summary)
— *see also* **Shkolnikov, Ilya A.**
Spurgeon, Sarah K. *see* **Hong, Yiguang et al., 2005d:93029** *and* **Yan, Xing Gang et al., 2005f:93031**
Sule, V. R. State space approach to behavioral systems theory: the Dirac-Bergmann algorithm. (English summary) **2005m:93031**
Sun, Huey-Min A new variable structure multiple-model algorithm for manoeuvring target tracking. (English summary)
Sun, Li Xia *see* **Bao, Sheng et al.** *and* **Zhang, Niao Na et al.**
Tan, Chee Pin (*with* Edwards, Christopher) Sliding mode observers for detection and reconstruction of sensor faults. (English summary)
Tchawoua, Clement *see* **Bowong, Samuel et al., 2005k:93038**
Teolis, Carole *see* **Kwatny, Harry G. et al.**
Tong, Shao Cheng (*with* Zhao, Dianpin) Fuzzy adaptive sliding mode output feedback control for nonlinear systems. (English summary) **2005d:93031**
Tsang, Kai Ming *see* **Wang, Jiang**
Ünsal, Cem *see* **Efe, Mehmet Önder et al., 2005m:93029**
Usai, Elio *see* **Bartolini, Giorgio et al., 2005d:93028**
Wang, Ben Li *see* **Zhao, Yan Bin et al.**
Wang, Hong Jun[2] (*with* Ma, Xiao Ping) Decentralized variable-structure control based on state observer for uncertain nonlinear composite systems. (Chinese. English and Chinese summaries)
Wang, Jiang (*with* Tsang, Kai Ming) Second-order sliding mode control of a nonlinear singular perturbation system. (Chinese. English and Chinese summaries)
Wang, Jing Ye *see* **Guo, Xiao Jun et al., 2005a:93032**
Wang, Ping Ping *see* **Zhao, Yan Bin et al.**
Wang, Wei[8] *see* **Cui, Bao Tong et al.**
Wang, Xin Hua[1] (*with* Chen, Zeng Qiang; Yuan, Zhu Zhi) Centre-manifold-based sliding mode output tracking for non-minimum nonlinear systems. (English summary) **2005i:93022**
Wang, Yong Ji *see* **Qu, Shao Cheng**
Xu, Jian-Xin *see* **Cao, Wen-Jun, 2005b:93029**
Yan, Jun-Juh *see* **Lin, Jui-Sheng et al.**
Yan, Xing Gang (*with* Edwards, Christopher; Spurgeon, Sarah K.) Decentralised robust sliding mode control for a class of nonlinear interconnected systems by static output feedback. (English summary)
— (*with* Edwards, Christopher; Spurgeon, Sarah K.) Output feedback sliding mode control for non-minimum phase systems with non-linear disturbances. (English summary) **2005f:93031**
Yang, Guowu *see* **Hong, Yiguang et al., 2005d:93029**
Yu, Xinghuo *see* **Efe, Mehmet Önder et al., 2005m:93029** *and* **Feng, Yong[2] et al.**
Yuan, Zhu Zhi *see* **Wang, Xin Hua[1] et al., 2005i:93022**
Zhang, Niao Na (*with* Feng, Yong[2]; Sun, Li Xia) Terminal sliding mode control of two-link flexible manipulators. (Chinese. English and Chinese summaries)

Zhang, Si Ying *see* **Liu, Hui Ming et al.**
Zhao, Dianpin *see* **Tong, Shao Cheng, 2005d:93031**
Zhao, Yan Bin (*with* Wang, Ping Ping; Wang, Ben Li) Robust variable structure control laws for a class of mismatched uncertain linear systems. (Chinese. English and Chinese summaries)
Zinober, Alan S. I. *see* **Koshkouei, Ali J., 2005b:93032** *and* **Shtessel′, Yu. B. et al.**
Zolezzi, Tullio A variational approach to second-order approximability of sliding mode control systems. (English summary) **2005k:93039a**
— *see also* **Bartolini, Giorgio et al., 2005a:93029** *and* **Errata: "A variational approach to second-order approximability of sliding mode control systems", 2005k:93039b**

Items listed otherwise than by author

Errata:
"A variational approach to second-order approximability of sliding mode control systems" Corrigendum: "A variational approach to second-order approximability of sliding mode control systems" [Optimization **53** (2004), no. 5-6, 641–654; MR2115996 (2005k:93039a)] by T. Zolezzi. (English summary) **2005k:93039b**

Items with secondary classifications in 93B12

Akar, Mehmet (*with* Özgüner, Ümit) Decentralized sliding mode control design using overlapping decompositions. (English summary)
Boltyanskii, Vladimir Grigor′evich The maximum principle for variable structure systems. (English summary) **2005j:49012**
Cao, Song Ying *see* **Gu, Zhou Cong et al.**
Cao, Wen-Jun *see* **Xu, Jian-Xin**
Chen, Ben M. (*with* Lin, Zongli; Shamash, Yacov) ★ Linear systems theory. **2005b:93001**
Chen, Mao Yin (*with* Zhou, Dong Hua) Fault detection and isolation in a class of nonlinear systems. (Chinese. English and Chinese summaries)
Cho, Sohyung (*with* Prabhu, Vittaldas V.) Sliding mode dynamics in continuous feedback control for distributed discrete-event scheduling. (English summary)
Chu, Jian *see* **Xiang, Ji et al.**
Chung, Wan Kyun *see* **Kwon, S. J., 2005d:93002**
Clements, D. J. *see* **Zhang, Ying Wei et al.**
Drakunov, S. V. (*with* Floquet, Thierry; Perruquetti, Wilfrid) Stabilization and tracking control for an extended Heisenberg system with a drift. (English summary) **2005k:93145**
Duan, Guang Ren *see* **Hua, Changchun et al., 2005f:93098**
Eaton, R. *see* **Zhang, Ying Wei et al.**
Edwards, Christopher *see* **Yan, Xing Gang et al., 2005f:93002**
Engelberg, Shlomo Comments on: "Periodic orbits from Δ-modulation of stable linear systems" [IEEE Trans. Automat. Control **49** (2004), no. 8, 1376–1380; MR2078250 (2005b:93107)] by X. Xia and A. S. I. Zinober. (English summary) **2005m:93088**
Feki, Moez Synchronization of chaotic systems with parametric uncertainties using sliding observers. (English summary) **2005c:37056**
Felix, Ramon A. *see* **Sanchez, Edgar N. et al.**
Floquet, Thierry *see* **Drakunov, S. V. et al., 2005k:93145**
Gu, Zhou Cong (*with* Xia, Yang[1]; Yu, Qi Hong; Cao, Song Ying) Variable structure control of nonlinear systems with mismatched uncertainties. (Chinese. English and Chinese summaries)
Guan, Xin Ping *see* **Hua, Changchun et al., 2005f:93098**
Ha, In-Joong *see* **Kim, Seung-Jean, 2005c:34021**
Herman, Przemysław Sliding mode control of manipulators using first-order equations of motion with diagonal mass matrix. (English summary)
Hesketh, T. *see* **Zhang, Ying Wei et al.**
Hua, Changchun (*with* Guan, Xin Ping; Duan, Guang Ren) Variable structure adaptive fuzzy control for a class of nonlinear time-delay systems. (English summary) **2005f:93098**
Jing, Yuan Wei *see* **Mi, Yang et al.**
Kim, Seung-Jean (*with* Ha, In-Joong) Existence of Carathéodory solutions in nonlinear systems with discontinuous switching feedback controllers. (English summary) **2005c:34021**
Kwon, S. J. (*with* Chung, Wan Kyun) ★ Perturbation compensator based robust tracking control and state estimation of mechanical systems. **2005d:93002**
Lee, Ho-Hoon A new design approach for the anti-swing trajectory control of overhead cranes with high-speed hoisting. (English summary) **2005g:93050**
— (*with* Prevost, J.) A coupled sliding-surface approach for the trajectory control of a flexible-link robot based on a distributed dynamic model. (English summary)
Lee, Tong Heng *see* **Xu, Jian-Xin et al.**
Li, Wen Lin (*with* Quan, Sheng Hui; Liu, Guo Hua) Adaptive neural network control based on observer for a class of nonlinear systems. (Chinese. English and Chinese summaries)
Lin, Zongli *see* **Chen, Ben M. et al., 2005b:93001**
Liu, Guo Hua *see* **Li, Wen Lin et al.**
Luk′yanov, A. G. *see* **Sanchez, Edgar N. et al.**
Man, Zhihong *see* **Yu, Shuanghe et al., 2005f:93103**
Matvīchuk, K. S. Conditions for the stability of motions in sliding hyperplanes of time-dependent systems with variable structure. (Russian. Russian summary) **2005a:93121**
— Technical stability of forced motion in time-dependent automatic control systems with variable structure. (Russian. English and Ukrainian summaries) **2005m:93115**
Mi, Yang (*with* Jing, Yuan Wei) Design of fuzzy sliding mode controller for SISO discrete-time systems. (English summary)
— (*with* Jing, Yuan Wei; Wei, Xin Jiang) Design of sliding mode observer for a disturbed time-delay system. (Chinese. English and Chinese summaries)
Nikol′skiĭ, M. S. Difference approximation of some optimization problems. (Russian. Russian summary) **2005i:49036**
Orlov, Yuri V. Finite time stability and robust control synthesis of uncertain switched systems. (English summary) **2005k:93165**
Ortega, Romeo Some applications and extensions of interconnection and damping assignment passivity-based control. (English summary) (*see* **2005b:93007**)
Özgüner, Ümit *see* **Akar, Mehmet**
Pan, Ya-Jun *see* **Xu, Jian-Xin et al.**
Perruquetti, Wilfrid *see* **Drakunov, S. V. et al., 2005k:93145**
Pisano, Alessandro (*with* Usai, Elio) Output-feedback control of an underwater vehicle prototype by higher-order sliding modes. (English summary)
Prabhu, Vittaldas V. *see* **Cho, Sohyung**
Prevost, J. *see* **Lee, Ho-Hoon**
Quan, Sheng Hui *see* **Li, Wen Lin et al.**
Sanchez, Edgar N. (*with* Luk′yanov, A. G.; Felix, Ramon A.) Recurrent neural block form control. (English summary)
Shamash, Yacov *see* **Chen, Ben M. et al., 2005b:93001**
Spurgeon, Sarah K. *see* **Yan, Xing Gang et al., 2005f:93002**
Su, Hong Ye *see* **Xiang, Ji et al.**
Treesatayapun, C. (*with* Uatrongjit, S.) Controlling and synchronization of chaotic system using FREN with sliding bounds. (English summary)
Uatrongjit, S. *see* **Treesatayapun, C.**
Usai, Elio *see* **Pisano, Alessandro**
Wang, Fu Li *see* **Zhang, Ying Wei et al.**
Wei, Xin Jiang *see* **Mi, Yang et al.**
Xia, Xiaohua (*with* Zinober, Alan S. I.) Periodic orbits from Δ-modulation of stable linear systems. (English summary) **2005b:93107**
— *see also* **Engelberg, Shlomo, 2005m:93088**
Xia, Yang[1] *see* **Gu, Zhou Cong et al.**
Xiang, Ji (*with* Su, Hong Ye; Chu, Jian; Zhang, Xiao Yu) New synthesis algorithm of static output feedback sliding mode control for a class of uncertain systems. (English summary)
Xu, Jian-Xin (*with* Cao, Wen-Jun) Learning variable structure control approaches for repeatable tracking control tasks. (English summary)
— (*with* Pan, Ya-Jun; Lee, Tong Heng) A VSS identification scheme for time-varying parameters. (English summary)
Yan, Xing Gang (*with* Spurgeon, Sarah K.; Edwards, Christopher) Decentralized output feedback sliding mode control of nonlinear large-scale systems with uncertainties. (English summary) **2005f:93002**
Yang, Changhong *see* **Yang, Zhihong et al., 2005f:37067**
Yang, Zhihong (*with* Yao, Qionghui; Yang, Changhong) Control and synchronization of Hénon chaos via a novel variable structure control. (English summary) **2005f:37067**
Yao, Qionghui *see* **Yang, Zhihong et al., 2005f:37067**
Yu, Qi Hong *see* **Gu, Zhou Cong et al.**
Yu, Shuanghe (*with* Yu, Xinghuo; Man, Zhihong) A fuzzy neural network approximator with fast terminal sliding mode and its applications. (English summary) **2005f:93103**
Yu, Xinghuo *see* **Yu, Shuanghe et al., 2005f:93103**
Zhang, Xiao Yu *see* **Xiang, Ji et al.**
Zhang, Ying Wei (*with* Wang, Fu Li; Hesketh, T.; Clements, D. J.; Eaton, R.) Fault accommodation for nonlinear systems using fuzzy adaptive sliding control. (English summary)
Zhou, Dong Hua *see* **Chen, Mao Yin**
Zinober, Alan S. I. *see* **Xia, Xiaohua, 2005b:93107** *and* **Engelberg, Shlomo, 2005m:93088**

Items listed otherwise than by author

Lecture Notes in Control and Information Sciences *see* **Kwon, S. J., 2005d:93002**

93B15 Realizations from input-output data

Astolfi, Alessandro (*with* Colaneri, P.) A note on the existence of positive realizations. (English summary) **2005f:93032**
Beck, Carolyn (*with* D'Andrea, Raffaello) Noncommuting multidimensional realization theory: minimality, reachability, and observability. (English summary) **2005e:93029**
Benvenuti, Luca (*with* Farina, Lorenzo) A tutorial on the positive realization problem. (English summary) **2005b:93035**
Bitmead, Robert R. *see* **Ko, Sangho, 2005h:93033**
Bokor, József *see* **de Hoog, Thomas J. et al., 2005k:93040**
Bukov, V. N. (*with* Ryabchenko, V. N.) Generalizations of statements on the realizability of a compensator at the input of a system. (Russian. Russian summary) **2005e:93030**
Busłowicz, Mikołaj *see* **Kaczorek, Tadeusz, 2005a:93034**
Cheng, Dai Zhan *see* **Wang, Yu Zhen et al.**
Colaneri, P. *see* **Astolfi, Alessandro, 2005f:93032**
Cortés, Jorge (*with* van der Schaft, A. J.; Crouch, P. E.) Gradient realization of nonlinear control systems. (English summary) **2005g:93024**
Crouch, P. E. *see* **Cortés, Jorge et al., 2005g:93024**
Curtain, Ruth F. *see* **Opmeer, Mark R., 2005k:93042**
D'Andrea, Raffaello *see* **Beck, Carolyn, 2005e:93029**
Devi, Sunita *see* **Prasad, Rajendra, 2005k:93043**
Dolgin, Yuri Author's reply: "Comments on: 'On Routh-Pade model reduction of interval systems' " [IEEE Trans. Automat. Control **50** (2005), no. 2, 273–274; MR2116438 (2005j:93021a)] by S.-F. Yang. **2005j:93021b**
— *see also* **Yang, Shih-Feng, 2005j:93021a**
Farina, Lorenzo *see* **Benvenuti, Luca, 2005b:93035**
Ferrante, Augusto Minimal representations of continuous-time processes having spectral density with zeros in the extended imaginary axis. (English summary) **2005m:93032**
Förster, Karl-Heinz (*with* Nagy, Béla[2]) Connections between realizations of a transfer function. (English summary) **2005i:93023**
Fujimoto, Kenji (*with* Scherpen, Jacquelien M. A.; Gray, W. Steven) Hamiltonian realizations of nonlinear adjoint operators. (English summary)
— (*with* Scherpen, Jacquelien M. A.) Nonlinear input-normal realizations based on the differential eigenstructure of Hankel operators. (English summary) **2005j:93016**
Gaĭshun, I. V. (*with* Goryachkin, V. V.) Minimal realization of completely solvable linear differential systems of observation. (Russian. Russian summary) **2005j:93017**
Gaĭshun, L. N. (*with* Goryachkin, V. V.; Krakhotko, V. V.) Decomposition of completely solvable discrete time-independent observation systems. (Russian. English and Russian summaries)
Goryachkin, V. V. *see* **Gaĭshun, I. V., 2005j:93017** *and* **Gaĭshun, L. N. et al.**

Gray, W. Steven (*with* Scherpen, Jacquelien M. A.) Hankel singular value functions from Schmidt pairs for nonlinear input-output systems. (English summary) **2005g:93025**
— *see also* **Fujimoto, Kenji et al.**
Grivet-Talocia, Stefano Passivity enforcement via perturbation of Hamiltonian matrices. (English summary) **2005f:93033**
(Halevi, Yoram) *see* **Larin, Vladimir B.**
Hämäläinen, Timo *see* **Immonen, Eero et al., 2005j:93019**
Heuberger, Peter S. C. *see* **de Hoog, Thomas J. et al., 2005k:93040**
de Hoog, Thomas J. (*with* Szabó, Zoltán István; Heuberger, Peter S. C.; Van den Hof, Paul M. J.; Bokor, József) Minimal partial realization from generalized orthonormal basis function expansions. (English summary) **2005k:93040**
Immonen, Eero On the concept of point value in the infinite-dimensional realization theory. (English summary) **2005j:93018**
— (*with* Pohjolainen, Seppo; Hämäläinen, Timo) On the realization of periodic functions. (English summary) **2005j:93019**
Kaczorek, Tadeusz (*with* Busłowicz, Mikołaj) Minimal realization for positive multivariable linear systems with delay. (English summary) **2005a:93034**
Ko, Sangho (*with* Bitmead, Robert R.) Covariance calculation for floating-point state-space realizations. (English summary) **2005h:93033**
Krakhotko, V. V. *see* **Gaĭshun, L. N. et al.**
Larin, Vladimir B. Comments on: "Approximated Gramians and balanced realization of lightly damped flexible structures" [IEEE Trans. Automat. Control **47** (2002), no. 1, 193–198; MR1879712] by Y. Halevi. (English summary)
Li, Chun Wen *see* **Wang, Yu Zhen et al.**
Liu, Wan Quan *see* **Wang, Jing[12] et al., 2005j:93020**
Maksimov, Vyacheslav I. The dynamic residual method in the input reconstruction problem. (Russian. Russian summary) **2005c:93019**
Matolcsi, Máté (*with* Nagy, Béla[2]) Estimates for the dimensions of nonnegative realizations. (English summary) **2005h:93034**
Mittal, R. C. *see* **Mukherjee, Shaktidev et al.**
Mukherjee, Shaktidev (*with* Satakshi; Mittal, R. C.) Model order reduction using response-matching technique. (English summary)
Nagy, Béla[2] *see* **Matolcsi, Máté, 2005h:93034** *and* **Förster, Karl-Heinz, 2005i:93023**
Ohta, Yoshito Realization of input-output maps using generalized orthonormal basis functions. (English summary) **2005k:93041**
Opmeer, Mark R. (*with* Curtain, Ruth F.) Linear quadratic Gaussian balancing for discrete-time infinite-dimensional linear systems. (English summary) **2005k:93042**
Pohjolainen, Seppo *see* **Immonen, Eero et al., 2005j:93019**
Prasad, Rajendra (*with* Devi, Sunita) Reduction of linear discrete time systems in frequency domain using continued fraction expansions. (English summary) **2005k:93043**
Ryabchenko, V. N. *see* **Bukov, V. N., 2005e:93030**
Sandberg, Irwin W. Uniform approximation of periodically-varying systems. (English summary) **2005d:93032**
Satakshi *see* **Mukherjee, Shaktidev et al.**
van der Schaft, A. J. *see* **Cortés, Jorge et al., 2005g:93024**
Scherpen, Jacquelien M. A. *see* **Gray, W. Steven, 2005g:93025** *and* **Fujimoto, Kenji et al., 2005j:93016**
Sebe, Noboru Explicit characterization of decentralized coprime factors. (English summary)
Stefanovski, Jovan Discrete J-spectral factorization of possibly singular polynomial matrices. (English summary) **2005d:93033**
Suchomski, Piotr A J-lossless coprime factorisation approach to H_∞ control in delta domain. (English summary)
Szabó, Zoltán István *see* **de Hoog, Thomas J. et al., 2005k:93040**
Van den Hof, Paul M. J. *see* **de Hoog, Thomas J. et al., 2005k:93040**
Varga, Andras Computation of minimal periodic realizations of transfer-function matrices. (English summary) **2005b:93036**
Wang, Jing[12] (*with* Liu, Wan Quan; Zhang, Qing Ling) Model reduction for singular systems via covariance approximation. (English summary) **2005j:93020**
Wang, Yu Zhen (*with* Li, Chun Wen; Cheng, Dai Zhan) Generalized Hamiltonian realization of time-invariant nonlinear systems. (English summary)
Xing, Hua-Wei *see* **Zhou, Tong[1]**
Yang, Shih-Feng Comments on: "On Routh-Pade model reduction of interval systems" [IEEE Trans. Automat. Control **48** (2003), no. 9, 1610–1612; MR2000116 (2004f:93026)] by Y. Dulgin and E. Zeheb. (English summary) **2005j:93021a**
— *see also* **Dolgin, Yuri, 2005j:93021b**
(Zeheb, Ezra) *see* **Yang, Shih-Feng, 2005j:93021a**
Zhang, Qing Ling *see* **Wang, Jing[12] et al., 2005j:93020**
Zhou, Tong[1] (*with* Xing, Hua-Wei) Identification of normalized coprime factors through constrained curve fitting. (English summary)

Items with secondary classifications in 93B15

Alpay, Daniel (*with* Constantinescu, Tiberiu; Dijksma, Aad; Rovnyak, J.) Notes on interpolation in the generalized Schur class. I. Applications of realization theory. (English summary) **2005f:47038**
Anderson, Brian D. O. *see* **Lanzon, Alexander et al.**
Ball, Joseph A. (*with* Vinnikov, Victor) Formal reproducing kernel Hilbert spaces: the commutative and noncommutative settings. (English summary) **2005a:46058**
Bazán, Fermín S. V. *see* **Kraemer, E. L., 2005a:15024**
Bessmertnyĭ, M. F. On realizations of rational matrix functions of several complex variables. II. **2005e:47023**
Bombois, Xavier *see* **Lanzon, Alexander et al.**
Butkovič, P. (*with* Cuninghame-Green, R. A.) On the linear assignment problem for special matrices. (English summary) **2005f:93115**
Chen, De Cheng *see* **Yang, J. B. et al.**
Constantinescu, Tiberiu *see* **Alpay, Daniel et al., 2005f:47038**
Cuninghame-Green, R. A. *see* **Butkovič, P., 2005f:93115**
De Santis, Alberto (*with* Farina, Lorenzo) Identification of positive linear systems with Poisson output transformation. (English summary)
Dijksma, Aad *see* **Alpay, Daniel et al., 2005f:47038**
Farina, Lorenzo *see* **De Santis, Alberto**
Gegov, Alexander (*with* Parashkevova, Daniela; Ljubenov, Krum) Analysis of systems under probabilistic and fuzzy uncertainty using multi-valued logic. (English summary)
Groenewald, Gilbert J. (*with* Petersen, Mark Adam) J-spectral factorization for rational matrix functions with alternative realization. (English summary) **2005b:47041**
Hasegawa, Yasumichi *see* **Matsuo, Tsuyoshi, 2005a:93005**
(Hu, Xiao Ming) *see* **Ito, Hiroshi[1], 2005m:93061**
Ito, Hiroshi[1] A reduced-order controller design for nonlinear systems with uncertainties and disturbances. (English summary) **2005m:93061**
Jiang, L. J. *see* **Yang, J. B. et al.**
Kalyuzhnyĭ-Verbovetzkiĭ, Dmitry S. On the Bessmertnyĭ class of homogeneous positive holomorphic functions of several variables. (English summary) **2005e:47024**
(Katsnelson, V.) *see* **Bessmertnyĭ, M. F., 2005e:47023**
Kotta, Ülle (*with* Pawłuszewicz, Ewa; Nõmm, S.) Generalization of transfer equivalence for discrete-time non-linear systems: comparison of two definitions. (English summary) **2005b:93037**
Kraemer, E. L. (*with* Bazán, Fermín S. V.) Some non-normality measures of matrices. (Portuguese. English and Portuguese summaries) **2005a:15024**
Lanzon, Alexander (*with* Anderson, Brian D. O.; Bombois, Xavier) Selection of a single uniquely specifiable $\mathscr{H}_\infty$ controller in the chain-scattering framework. (English summary)
Lin, Wei[2] *see* **Yang, Bo[7], 2005k:93209**
Ljubenov, Krum *see* **Gegov, Alexander et al.**
Maksimov, Vyacheslav I. (*with* Skuratov, E. N.; Pandolfi, Luciano) On the realization of a prescribed motion in a system with aftereffect. (Russian. Russian summary) **2005g:93057**
(Mareels, Iven M. Y.) *see* **Ito, Hiroshi[1], 2005m:93061**
Matsuo, Tsuyoshi (*with* Hasegawa, Yasumichi) ★ Realization theory of discrete-time dynamical systems. **2005a:93005**
Mboup, Mamadou On the structure of self-similar systems: a Hilbert space approach. (English summary) **2005c:47109**
Mirrahimi, Mazyar (*with* Rouchon, Pierre[1]) Controllability of quantum harmonic oscillators. (English summary) **2005a:93023**
Murray, Richard M. *see* **Wang, Yong et al.**
Nõmm, S. *see* **Kotta, Ülle et al., 2005b:93037**
Pandolfi, Luciano *see* **Maksimov, Vyacheslav I. et al., 2005g:93057**
Parashkevova, Daniela *see* **Gegov, Alexander et al.**
Pawłuszewicz, Ewa *see* **Kotta, Ülle et al., 2005b:93037**
Petersen, Mark Adam *see* **Groenewald, Gilbert J., 2005b:47041**
Poinot, Thierry (*with* Trigeassou, Jean-Claude) Identification of fractional systems using an output-error technique. (English summary)
Rouchon, Pierre[1] *see* **Mirrahimi, Mazyar, 2005a:93023**
Rovnyak, J. *see* **Alpay, Daniel et al., 2005f:47038**
Skuratov, E. N. *see* **Maksimov, Vyacheslav I. et al., 2005g:93057**
Suyama, Koichi An internally stable realization of a finite-dimensional approximation of a delay element. (English summary) **2005b:93061**
Trigeassou, Jean-Claude *see* **Poinot, Thierry**
Vasil'ev, S. N. On reduction theory in qualitative analysis and control of dynamic systems. (English summary) **2005j:34004**
Vinnikov, Victor *see* **Ball, Joseph A., 2005a:46058**
Wang, Yong (*with* Murray, Richard M.) Bifurcation control of rotating stall with actuator magnitude and rate limits. I. Model reduction and qualitative dynamics. (English summary)
— (*with* Yeung, Simon; Murray, Richard M.) Bifurcation control of rotating stall with actuator magnitude and rate limits. II. Control synthesis and comparison with experiments. (English summary)
Yang, Bo[7] (*with* Lin, Wei[2]) Robust output feedback stabilization of uncertain nonlinear systems with uncontrollable and unobservable linearization. (English summary) **2005k:93209**
Yang, J. B. (*with* Jiang, L. J.; Chen, De Cheng) Dynamic modelling and control of a rotating Euler-Bernoulli beam. (English summary)
Yeung, Simon *see* **Wang, Yong et al.**
Zhang, Ren Zhong Linearization with dynamic feedback of affine nonlinear systems and linearizable approximation control of systems. (Chinese. English and Chinese summaries)
Zhao, Hong[1] (*with* Zhou, Tong[1]) Model validation with input perturbations in a stochastic environment. (Chinese. English and Chinese summaries) **2005h:93154**
Zhou, Tong[1] *see* **Zhao, Hong[1], 2005h:93154**

Items listed otherwise than by author

Lecture Notes in Control and Information Sciences *see* **Matsuo, Tsuyoshi, 2005a:93005**

93B17 Transformations

Chu, Delin (*with* Hung, Y. S.) A numerically reliable solution for the squaring-down problem in system design. (English summary) **2005d:93034**
Egas, R. G. *see* **Geromel, Jose C. et al., 2005i:93024**
Ferreres, Gilles Reduction of dynamic LFT systems with LTI model uncertainties. (English summary) **2005a:93035**
Geromel, Jose C. (*with* Egas, R. G.; Kawaoka, F. R. R.) H_∞ model reduction with application to flexible systems. (English summary) **2005i:93024**
Hung, Y. S. *see* **Chu, Delin, 2005d:93034**
Kawaoka, F. R. R. *see* **Geromel, Jose C. et al., 2005i:93024**
Ran, André C. M. Necessary and sufficient conditions for existence of J-spectral factorization for para-Hermitian rational matrix functions. (English summary)

Items with secondary classifications in 93B17

Antoulas, Athanasios C. *see* **Gugercin, Serkan, 2005a:93028**
Bronnikov, A. M. *see* **Bukov, V. N., 2005j:93037**
Bukov, V. N. (*with* Bronnikov, A. M.) Output invariance conditions for linear systems. (Russian. Russian summary) **2005j:93037**

Chu, Eric King-wah (*with* Fan, Hung-Yuan; Lin, Wen Wei; Wang, Chern Shuh) Structure-preserving algorithms for periodic discrete-time algebraic Riccati equations. (English summary) **2005d:93083**
Diversi, Roberto *see* **Guidorzi, Roberto**
Fan, Hung-Yuan *see* **Chu, Eric King-wah et al., 2005d:93083**
Gugercin, Serkan (*with* Antoulas, Athanasios C.) A survey of model reduction by balanced truncation and some new results. (English summary) **2005a:93028**
Guidorzi, Roberto (*with* Diversi, Roberto) Minimal representations of MIMO time-varying systems and realization of cyclostationary models. (English summary)
Jo, Nam H. *see* **Noh, Daejong et al., 2005j:93014**
Krener, Arthur J. (*with* Xiao, MingQing) Observers for linearly unobservable nonlinear systems. (English summary) **2005d:93021**
Lafay, J.-F. *see* **Van Assche, Vincent et al., 2005a:93072**
Lin, Wen Wei *see* **Chu, Eric King-wah et al., 2005d:93083**
Loiseau, Jean Jacques *see* **Van Assche, Vincent et al., 2005a:93072**
Noh, Daejong (*with* Jo, Nam H.; Seo, Jin Heon) Nonlinear observer design by dynamic observer error linearization. (English summary) **2005j:93014**
Semenova, M. M. Decomposition of multirate models of controllable systems. (Russian. English and Russian summaries) **2005m:93099**
Seo, Jin Heon *see* **Noh, Daejong et al., 2005j:93014**
Stefanovski, Jovan Polynomial J-spectral factorization in minimal state space. (English summary)
Van Assche, Vincent (*with* Lafay, J.-F.; Loiseau, Jean Jacques) Feedback realization of non-singular precompensators for linear systems over a polynomial ring. (English summary) **2005a:93072**
Wang, Chern Shuh *see* **Chu, Eric King-wah et al., 2005d:93083**
Xiao, MingQing *see* **Krener, Arthur J., 2005d:93021**

93B18 Linearizations

Battilotti, Stefano (*with* Califano, Claudio) A constructive condition for dynamic feedback linearization. (English summary) **2005d:93035**
Califano, Claudio *see* **Battilotti, Stefano, 2005d:93035**
Chen, Chung Cheng (*with* Chien, T. L.; Wei, C. L.) Application of feedback linearization to tracking and almost disturbance decoupling control of the AMIRA ball and beam system. (English summary) **2005g:93026**
Chien, T. L. *see* **Chen, Chung Cheng et al., 2005g:93026**
Devanathan, Rajagopalan Necessary and sufficient conditions for quadratic linearization of a linearly controllable system. (English summary) **2005e:93031**
Reneke, James A. Stochastic linearization of nonlinear point dissipative systems. (English summary) **2005j:93022**
Wei, C. L. *see* **Chen, Chung Cheng et al., 2005g:93026**

Items with secondary classifications in 93B18

Abdallah, Chaouki T. *see* **Tang, Zhong et al., (2005g:93003)**
Becerril Arreola, Rafael *see* **Maggiore, Manfredi, 2005e:93060**
Birdwell, J. Douglas *see* **Tang, Zhong et al., (2005g:93003)**
Chiasson, John *see* **Tang, Zhong et al., (2005g:93003)**
Hayat, Majeed M. *see* **Tang, Zhong et al., (2005g:93003)**
Jing, Yuan Wei *see* **Wang, Qiang De et al., 2005e:93087**
Kappos, Efthimios A geometric approach to linear and nonlinear achievable dynamics. (English summary) **2005e:93034**
Krstić, Miroslav Feedback linearizability and explicit integrator forwarding controllers for classes of feedforward systems. (English summary) **2005e:93072**
Maggiore, Manfredi (*with* Becerril Arreola, Rafael) Modelling and control design for a magnetic levitation system. (English summary) **2005e:93060**
Nijmeijer, Henk *see* **Roset, Bas, 2005h:93029**
Roset, Bas (*with* Nijmeijer, Henk) Observer-based model predictive control. (English summary) **2005h:93029**
Rouchon, Pierre[1] Flatness based control of oscillators. (English summary) **2005m:93017**
Tall, Issa Amadou Normal forms of multi-input nonlinear control systems with controllable linearization. (English summary) **2005f:93028**
Tang, Zhong (*with* Birdwell, J. Douglas; Chiasson, John; Abdallah, Chaouki T.; Hayat, Majeed M.) Closed loop control of a load balancing network with time delays and processor resource constraints. (*see* **2005g:93003**)
Vũ Ngọc Phát Nonlinear H_∞ control in Hilbert spaces via Riccati operator equation. (English summary) **2005a:93062**
Wang, Qiang De (*with* Jing, Yuan Wei; Zhang, Si Ying) Adaptive practical output tracking of a class of nonlinear systems. (English summary) **2005e:93087**
Zhang, Si Ying *see* **Wang, Qiang De et al., 2005e:93087**

93B20 Minimal systems representations

Castañeda-Leyva, Netzahualcóyotl (*with* Hernández-Hernández, Daniel) Optimal portfolio management with consumption. (English summary) **2005e:93032**
Hernández-Hernández, Daniel *see* **Castañeda-Leyva, Netzahualcóyotl, 2005e:93032**
Kaczorek, Tadeusz Computation of minimal realizations for compartmental linear systems. (English summary)
Kotta, Ülle (*with* Pawłuszewicz, Ewa; Nõmm, S.) Generalization of transfer equivalence for discrete-time non-linear systems: comparison of two definitions. (English summary) **2005b:93037**
Nagar, S. K. (*with* Singh, S. K.) An algorithmic approach for system decomposition and balanced realized model reduction. (English summary) **2005f:93034**
Nõmm, S. *see* **Kotta, Ülle et al., 2005b:93037**
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Items with secondary classifications in 93B20

(Cockburn, Juan C.) *see* **Hecker, Simon, 2005j:93038**
Drăgușin, Constantin *see* **Prepeliță, Valeriu, 2005d:93076**
Fausett, Laurene V. (*with* Murty, Kanuri N.) Controllability, observability and realizability criteria on time scale dynamical systems. (English summary) **2005e:93013**
Ferrante, Augusto Minimal representations of continuous-time processes having spectral density with zeros in the extended imaginary axis. (English summary) **2005m:93032**
Hasegawa, Yasumichi *see* **Matsuo, Tsuyoshi, 2005a:93005**
Hecker, Simon (*with* Varga, Andras) Generalized LFT-based representation of parametric uncertain models. (English summary) **2005j:93038**
Liu, Wan Quan *see* **Wang, Jing[12] et al., 2005g:93022**
Matsuo, Tsuyoshi (*with* Hasegawa, Yasumichi) ★ Realization theory of discrete-time dynamical systems. **2005a:93005**
Murty, Kanuri N. *see* **Fausett, Laurene V., 2005e:93013**
Pommaret, Jean-François (*with* Quadrat, A.) A differential operator approach to multidimensional optimal control. (English summary) **2005h:93037**
Prepeliță, Valeriu (*with* Drăgușin, Constantin) The duality principle in a class of 2D continuous-discrete linear systems. (English summary) **2005d:93076**
Quadrat, A. *see* **Pommaret, Jean-François, 2005h:93037**
Van Dooren, Paul *see* **Varga, Andras, 2005a:93067**
Varga, Andras (*with* Van Dooren, Paul) Computing the zeros of periodic descriptor systems. (English summary) **2005a:93067**
— Computation of minimal periodic realizations of transfer-function matrices. (English summary) **2005b:93036**
— *see also* **Hecker, Simon, 2005j:93038**
Wang, Jing[12] (*with* Liu, Wan Quan; Zhang, Qing Ling; Xin, Xin) $\mathscr{H}_\infty$ suboptimal model reduction for singular systems. (English summary) **2005g:93022**
Xin, Xin *see* **Wang, Jing[12] et al., 2005g:93022**
Zhang, Qing Ling *see* **Wang, Jing[12] et al., 2005g:93022**

Items listed otherwise than by author

Lecture Notes in Control and Information Sciences *see* **Matsuo, Tsuyoshi, 2005a:93005**

93B25 Algebraic methods

Antoniou, E. N. (*with* Vardulakis, A. I. G.) On the computation and parametrization of proper denominator assigning compensators for strictly proper plants. (English summary) **2005i:93025**
Baragaña, I. (*with* Fernández Gonzalez, Victoria; Zaballa, I.) Hermite indices and the action of the feedback group. (English summary) **2005k:93044**
Boudellioua, M. S. (*with* Chentouf, Boumediène) Matrix pencils over a principal ideal domain. (English and Arabic summaries) **2005f:93035**
Chentouf, Boumediène *see* **Boudellioua, M. S., 2005f:93035**
Duarte-Mermoud, Manuel A. *see* **Torres-Muñoz, Jorge Antonio et al., 2005k:93045**
Faruqi, Farhan A. On the algebraic structure of quadratic and bilinear dynamical systems. (English summary)
Fernández Gonzalez, Victoria *see* **Baragaña, I. et al., 2005k:93044**
Forney, G. David (*with* Trott, Mitchell D.) The dynamics of group codes: dual abelian group codes and systems. (English summary) **2005h:93035**
Fuhrmann, P. A. A note on continuous behavior homomorphisms. (English summary) **2005m:93033**
Gao, Huijun (*with* Lam, James; Wang, Chang Hong[1]; Wang, Qing[6]) Hankel norm approximation of linear systems with time-varying delay: continuous and discrete cases. (English summary) **2005g:93027**
James, D. J. G. *see* **Rumchev, Ventseslav G.**
Krivulin, N. K. Estimation of the rate of growth of the state vector of a generalized linear dynamical system with random matrix. (English summary) **2005g:93028**
Lam, James *see* **Gao, Huijun et al., 2005g:93027**
Lee, Chien-Hua Solution bounds of the continuous and discrete Lyapunov matrix equations. (English summary) **2005a:93036**
Loiseau, Jean Jacques (*with* Zagalak, Petr; Mondié, Sabine) Some remarks on matrix pencil completion problems. (English summary) **2005i:93026**
Márquez-Martínez, Luis Alejandro *see* **Xia, Xiaohua et al., 2005k:93046**
Martínez-Guerra, R. (*with* Mendoza-Camargo, Juan) Observers for a class of Liouvillian and, non-differentially flat systems. (English summary) **2005f:93036**
Mendoza-Camargo, Juan *see* **Martínez-Guerra, R., 2005f:93036**
Mondié, Sabine *see* **Loiseau, Jean Jacques et al., 2005i:93026**
Moog, Claude H. *see* **Xia, Xiaohua et al., 2005k:93046**
Mori, Kazuyoshi Elementary proof of controller parametrization without coprime factorizability. (English summary) **2005c:93020**
Osetinskiĭ, N. I. On an invariant analysis of generalized linear dynamical systems. (Russian. Russian summary) **2005d:93036**
Pommaret, Jean-François Algebraic analysis of control systems defined by partial differential equations. **2005m:93034**
Rogers, Eric *see* **Wood, Jeffrey James et al., 2005m:93035**
Rumchev, Ventseslav G. (*with* James, D. J. G.) Controlled balanced growth of positive linear discrete-time systems. (English summary)
Sáez-Schwedt, Andrés (*with* Sánchez-Giralda, Tomás) On linear dynamical systems and feedback group over commutative rings. (English summary) **2005g:93029**
Sánchez-Giralda, Tomás *see* **Sáez-Schwedt, Andrés, 2005g:93029**
Sule, V. R. *see* **Wood, Jeffrey James et al., 2005m:93035**
Torres-Muñoz, Jorge Antonio (*with* Zagalak, Petr; Duarte-Mermoud, Manuel A.) Some remarks on the problem of model matching by state feedback. (English summary) **2005k:93045**
Trott, Mitchell D. *see* **Forney, G. David, 2005h:93035**
Vardulakis, A. I. G. *see* **Antoniou, E. N., 2005i:93025**
Wang, Chang Hong[1] *see* **Gao, Huijun et al., 2005g:93027**
Wang, Qing[6] *see* **Gao, Huijun et al., 2005g:93027**
Wood, Jeffrey James (*with* Sule, V. R.; Rogers, Eric) Causal and stable input/output structures on multidimensional behaviors. (English summary) **2005m:93035**
Xia, Xiaohua (*with* Márquez-Martínez, Luis Alejandro; Zagalak, Petr; Moog, Claude H.) Analysis of nonlinear time-delay systems using modules over non-commutative rings. (English summary) **2005k:93046**

Zaballa, I. *see* **Baragaña, I. et al., 2005k:93044**
Zagalak, Petr *see* **Loiseau, Jean Jacques et al., 2005i:93026**; **Torres-Muñoz, Jorge Antonio et al., 2005k:93045** *and* **Xia, Xiaohua et al., 2005k:93046**
Zerz, Eva Multidimensional behaviours: an algebraic approach to control theory for PDE. (English summary) **2005d:93037**

Items with secondary classifications in 93B25

Aguirre, B. (*with* Ibarra-Valdez, Carlos; Suárez, Rodolfo) Sufficient algebraic conditions for stability of cones of polynomials. (English summary) **2005a:93119**
Albertini, Francesca (*with* D'Alessandro, Domenico) Control of the evolution of Heisenberg spin systems. (English summary) **2005m:93071**
Aranda-Bricaire, Eduardo (*with* Kotta, Ülle) A geometric solution to the dynamic disturbance decoupling for discrete-time nonlinear systems. (English summary) **2005a:93076**
Asif, Amir (*with* Moura, José M. F.) Block matrices with L-block-banded inverse: inversion algorithms. (English summary) **2005i:15005**
Babaali, Mohamed (*with* Egerstedt, Magnus B.; Kamen, Edward W.) A direct algebraic approach to observer design under switching measurement equations. (English summary) **2005g:93073**
Beck, Carolyn (*with* D'Andrea, Raffaello) Noncommuting multidimensional realization theory: minimality, reachability, and observability. (English summary) **2005e:93029**
Bernstein, Dennis S. ★ Matrix mathematics. **2005i:93001**
(Bobtsov, A. A.) *see* **Xu, Sheng Yuan**
Bokor, József *see* **Edelmayer, András et al., 2005a:93037**
Borukhov, V. T. (*with* Zelenyak, D. M.) Exact solution of the algebraic Riccati equation for relaxation systems with a single input. (Russian. Russian summary) **2005j:49027**
Braga Barros, Carlos J. Chain control sets and fiber bundles. (English summary) **2005b:93010**
Bronnikov, A. M. (*with* Bukov, V. N.; Zubov, N. E.; Ryabchenko, V. N.) Algebraic singularities of dynamical systems in the form of the zero divisors of their transfer matrices. (Russian. Russian summary) **2005e:93071**
Bukov, V. N. *see* **Bronnikov, A. M. et al., 2005e:93071**
Cho, Young Man *see* **Rajamani, Rajesh, 2005a:93123**
Chu, Delin (*with* Hung, Y. S.) A numerically reliable solution for the squaring-down problem in system design. (English summary) **2005d:93034**
(Cockburn, Juan C.) *see* **Hecker, Simon, 2005j:93038**
Costa, Ramon R. *see* **Imai, Alvaro K. et al., 2005j:93044**
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D'Andrea, Raffaello *see* **Beck, Carolyn, 2005e:93029**
Duc, G. *see* **Farret, D. et al., 2005a:93053**
Dymkov, M. (*with* Gaĭshun, I. V.; Rogers, Eric; Gałkowski, K.; Owens, D. H.) Control theory for a class of 2D continuous-discrete linear systems. (English summary) **2005d:93084**
Dzhumadil'daev, A. S. q-chronological algebras. (Russian)
Edelmayer, András (*with* Bokor, József; Szabó, Zoltán István; Szigeti, Ferenc) Input reconstruction by means of system inversion: a geometric approach to fault detection and isolation in nonlinear systems. (English summary) **2005a:93037**
Egerstedt, Magnus B. *see* **Babaali, Mohamed et al., 2005g:93073**
ElAli, Taan S. ★ Discrete systems and digital signal processing with MATLAB®. **2005d:93001**
Elkin, V. I. On the categories and foundations of the theory of nonlinear controlled dynamical systems. I. (Russian. Russian summary) **2005a:93077**
Farret, D. (*with* Duc, G.; Harcaut, J. P.) Reduced order H_∞ loop-shaping control of a missile pitch axis over a wide flight envelope. (English summary) **2005a:93053**
Fax, J. Alexander (*with* Murray, Richard M.) Information flow and cooperative control of vehicle formations. (English summary) **2005e:90013**
Ferrante, Augusto Positive real lemma: necessary and sufficient conditions for the existence of solutions under virtually no assumptions. (English summary) **2005k:93014**
Freund, Roland W. (*with* Jarre, Florian) An extension of the positive real lemma to descriptor systems. (English summary) **2005d:93067**
Fujimori, Atsushi Optimization of static output feedback using substitutive LMI formulation. (English summary) **2005b:93133**
Gaĭshun, I. V. Controllability and stabilization of discrete systems in a function space on a finite commutative group with values in a commutative ring. (Russian. Russian summary) **2005e:93089**
— *see also* **Dymkov, M. et al., 2005d:93084**
Gałkowski, K. *see* **Dymkov, M. et al., 2005d:93084**
García-Planas, Ma. Isabel (*with* Maĭlybaev, A. A.) Reduction to versal deformations of matrix pencils and matrix, pairs with application to control theory. (English summary) **2005c:15020**
(Garulli, Andrea) *see* **Positive polynomials in control, 2005i:93005**
Geng, Zhi Yong Stabilization of the systems with coprime factor uncertainties by convex parameterization approach. (English summary)
Harcaut, J. P. *see* **Farret, D. et al., 2005a:93053**
Hecker, Simon (*with* Varga, Andras) Generalized LFT-based representation of parametric uncertain models. (English summary) **2005j:93038**
Helton, J. William Manipulating matrix inequalities automatically. (English summary) **2005a:15019**
(Henrion, Didier) *see* **Positive polynomials in control, 2005i:93005**
Hong, Jang-Lee An H^∞ output feedback control for discrete-time state-delayed systems. (English summary) **2005b:93058**
Hsu, Liu *see* **Imai, Alvaro K. et al., 2005j:93044**
Hung, Y. S. *see* **Chu, Delin, 2005d:93034**
Hutchinson, Ryan (*with* Rosenthal, Joachim; Smarandache, Roxana) Convolutional codes with maximum distance profile. (English summary) **2005g:94106**
Ibarra-Valdez, Carlos *see* **Aguirre, B. et al., 2005a:93119**
Ignatovich, S. Yu. *see* **Sklyar, Grigory M., 2005h:49084**
Imai, Alvaro K. (*with* Costa, Ramon R.; Hsu, Liu; Tao, Gang; Kokotović, Petar V.) Multivariable adaptive control using high-frequency gain matrix factorization. (English summary) **2005j:93044**
Jarre, Florian *see* **Freund, Roland W., 2005d:93067**
Kaczorek, Tadeusz Generalization of Cayley-Hamilton theorem for n-D polynomial matrices. (English summary) **2005k:93115**
Kamen, Edward W. *see* **Babaali, Mohamed et al., 2005g:93073**
Karampetakis, N. P. (*with* Vologiannidis, S.; Vardulakis, A. I. G.) A new notion of equivalence for discrete time AR representations. (English summary) **2005d:93089**
Kim, Meeyoung (*with* Rosenthal, Joachim; Wang, Xiaochang Alex) Pole placement and matrix extension problems: a common point of view. (English summary) **2005e:93064**
King, Christopher *see* **Shorten, Robert N., 2005f:93131**
de Klerk, Etienne (*with* Laurent, Monique; Parrilo, Pablo A.) On the equivalence of algebraic approaches to the minimization of forms on the simplex. (English summary) **2005j:90059**
Kokotović, Petar V. *see* **Imai, Alvaro K. et al., 2005j:93044**
Kotta, Ülle Controller and controllability canonical forms for discrete-time nonlinear systems. (English and Estonian summaries) **2005k:93034**
— *see also* **Aranda-Bricaire, Eduardo, 2005a:93076**
Lam, James *see* **Xu, Sheng Yuan**
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(Mahmoud, Magdi S.) *see* **Xu, Sheng Yuan**
Maĭlybaev, A. A. *see* **García-Planas, Ma. Isabel, 2005c:15020**
Manton, Jonathan H. (*with* Neumann, Walter D.; Norbury, Paul T.) On the algebraic identifiability of finite impulse response channels driven by linearly precoded signals. (English summary) **2005g:93037**
Mehl, Christian (*with* Mehrmann, Volker; Xu, Hong-guo) On doubly structured matrices and pencils that arise in linear response theory. (English summary) **2005b:15025**
Mehrmann, Volker *see* **Mehl, Christian et al., 2005b:15025**
Moura, José M. F. *see* **Asif, Amir, 2005i:15005**
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Parrilo, Pablo A. *see* **de Klerk, Etienne et al., 2005j:90059**
Puerta, X. *see* **Puerta Sales, Fernando et al., 2005k:93024**
Puerta Sales, Fernando (*with* Puerta, X.; Zaballa, I.) On the parametrization of the controllability subspaces of a controllable pair. (English summary) **2005k:93024**
Rajamani, Rajesh (*with* Cho, Young Man) On stability radius and state feedback. (English summary) **2005a:93123**
Ran, André C. M. Necessary and sufficient conditions for existence of J-spectral factorization for para-Hermitian rational matrix functions. (English summary)
Rogers, Eric *see* **Dymkov, M. et al., 2005d:93084**
Rosenthal, Joachim *see* **Kim, Meeyoung et al., 2005e:93064** *and* **Hutchinson, Ryan et al., 2005g:94106**
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Sebe, Noboru Explicit characterization of decentralized coprime factors. (English summary)
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Sima, Diana Maria *see* **Sima, Vasile et al., 2005f:93040**
Sima, Vasile (*with* Sima, Diana Maria; Van Huffel, Sabine) High-performance numerical algorithms and software for subspace-based linear multivariable system identification. (English summary) **2005f:93040**
Sklyar, Grigory M. (*with* Ignatovich, S. Yu.) Approximation of time-optimal control problems via nonlinear power moment problems. (English summary) **2005h:49084**
Smarandache, Roxana *see* **Hutchinson, Ryan et al., 2005g:94106**
Stanković, Srdjan S. (*with* Šiljak, Dragoslav D.) Contractibility of overlapping decentralized control. (English summary) **2005d:93004**
Suárez, Rodolfo *see* **Aguirre, B. et al., 2005a:93119**
Szabó, Zoltán István *see* **Edelmayer, András et al., 2005a:93037**
Szigeti, Ferenc *see* **Edelmayer, András et al., 2005a:93037**
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Tohumoğlu, Gülay Analysis of periodically time-varying discrete-time systems in spectral domain. (English summary) **2005h:93100**
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— Comparison and classification of linear systems over idempotent semirings inspired by total positivity. (English summary) **2005m:93081**
Van Huffel, Sabine *see* **Sima, Vasile et al., 2005f:93040**
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Vologiannidis, S. *see* **Karampetakis, N. P. et al., 2005d:93089**
Vykhovanets, V. S. Polynomial factorization of spectral bases. (Russian. Russian summary) **2005j:93050**
Wang, Guo Rong[1] (*with* Zheng, Bing) Leverrier's algorithm for m-D system. (English summary) **2005m:93053**
Wang, Xiaochang Alex *see* **Kim, Meeyoung et al., 2005e:93064**
Xu, Hong-guo *see* **Mehl, Christian et al., 2005b:15025**
Xu, Sheng Yuan (*with* Lam, James) Positive real control for uncertain singular time-delay systems via output feedback controllers. (English summary)
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Zaballa, I. *see* **Puerta Sales, Fernando et al., 2005k:93024**
Zelenyak, D. M. *see* **Borukhov, V. T., 2005j:49027**
Zhang, Cishen (*with* Zheng, Yu Fan) A polynomial approach to discrete-time non-linear system controllability. (English summary) **2005b:93023**
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Zheng, Yu Fan *see* **Zhang, Cishen, 2005b:93023**
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Items listed otherwise than by author

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D'Andrea, Raffaello *see* **Recht, Benjamin, 2005c:93022**

Duindam, Vincent (*with* Stramigioli, Stefano) Passive asymptotic curve tracking. (English summary) **2005m:93036**

Edelmayer, András (*with* Bokor, József; Szabó, Zoltán István; Szigeti, Ferenc) Input reconstruction by means of system inversion: a geometric approach to fault detection and isolation in nonlinear systems. (English summary) **2005a:93037**

Gaubert, Stéphane (*with* Katz, Ricardo) Rational semimodules over the max-plus semiring and geometric approach to discrete event systems. (English summary) **2005b:93038**

Hagenmeyer, Veit (*with* Zeitz, Michael) Internal dynamics of flat nonlinear SISO systems with respect to a non-flat output. (English summary) **2005c:93021**

Hirschorn, Ronald (*with* Lewis, Andrew D.) High-order variations for families of vector fields. (English summary) **2005e:93033**

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Jo, Nam H. *see* **Son, Young I. et al., 2005b:93039**

Kappos, Efthimios A geometric approach to linear and nonlinear achievable dynamics. (English summary) **2005e:93034**

Katz, Ricardo *see* **Gaubert, Stéphane, 2005b:93038**

Lehenkyi, Victor I. (*with* Rudolph, Joachim) Towards the group classification of control systems. (English summary)

Lewis, Andrew D. *see* **Hirschorn, Ronald, 2005e:93033**

Moghadasi, S. Reza Rolling of a body on a plane or a sphere: a geometric point of view. (English summary) **2005f:93037**

Recht, Benjamin (*with* D'Andrea, Raffaello) Distributed control of systems over discrete groups. (English summary) **2005c:93022**

Rudolph, Joachim *see* **Lehenkyi, Victor I.**

Sasane, Amol J. *see* **Iftime, Orest V., 2005a:93038**

Seo, Jin Heon *see* **Son, Young I. et al., 2005b:93039**

Shim, Hyungbo *see* **Son, Young I. et al., 2005b:93039**

Son, Young I. (*with* Yang, J. W.; Jo, Nam H.; Shim, Hyungbo; Seo, Jin Heon) Feedback passivity approach to output feedback disturbance attenuation for uncertain nonlinear systems. (English summary) **2005b:93039**

Stramigioli, Stefano *see* **Duindam, Vincent, 2005m:93036**

Szabó, Zoltán István *see* **Edelmayer, András et al., 2005a:93037**

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Items with secondary classifications in 93B27

Agrachev, Andrei A. (*with* Sachkov, Yu. L.) ★ Control theory from the geometric viewpoint. **2005b:93002**

Ammar, Sabeur (*with* Vivalda, Jean-Claude) On the genericity of the observability of controlled discrete-time systems. (English summary) **2005m:93020**

Barbot, Jean-Pierre *see* **Floquet, Thierry et al., 2005a:93031**

Blankenstein, Guido A joined geometric structure for Hamiltonian and gradient control systems. (English summary) **2005c:37174**

Borisov, V. F. A lower estimate of the codimension of the set of Fuller points. **2005h:49057**

Braga Barros, Carlos J. (*with* San Martin, Luiz A. B.) Maximal chain transitive sets for local groups. (English summary) **2005d:93039**

Bullo, Francesco Trajectory design for mechanical control systems: from geometry to algorithms. (English summary) **2005c:70033**

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Djemai, M. *see* **Floquet, Thierry et al., 2005a:93031**

Floquet, Thierry (*with* Barbot, Jean-Pierre; Perruquetti, Wilfrid; Djemai, M.) On the robust fault detection via a sliding mode disturbance observer. (English summary) **2005a:93031**

Guerra, Manuel Distribution-like Hamiltonian flows and generalized optimal controls. **2005j:49028**

Klimovskiĭ, A. B. *see* **Volgin, L. I. et al., 2005d:03118**

Kozyakin, V. S. Indefinability in o-minimal structures of finite sets of matrices whose infinite products converge and are bounded or unbounded. (Russian. Russian summary) **2005h:03070**

Lambadarie, Dan Local stabilization for affine and bilinear control systems. (English summary) **2005d:93114**

de León, Manuel (*with* Cortés, Jorge; Martín de Diego, David; Martínez, Sonia) General symmetries in optimal control. (English summary) **2005c:49053**

Lynch, Alan F. *see* **Röbenack, Klaus, 2005b:93027**

Martín de Diego, David *see* **de León, Manuel et al., 2005c:49053**

Martínez, Eduardo Reduction in optimal control theory. (English summary) **2005c:58032**

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Mezić, Igor *see* **Vainchtein, D. L., 2005c:76026**

Michalska, H. (*with* Torres-Torriti, M.) Feedback stabilization of strongly non-linear systems using the CBH formula. (English summary) **2005b:93134**

Perruquetti, Wilfrid *see* **Floquet, Thierry et al., 2005a:93031**

Röbenack, Klaus (*with* Lynch, Alan F.) An efficient method for observer design with approximately linear error dynamics. (English summary) **2005b:93027**

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San Martin, Luiz A. B. *see* **Braga Barros, Carlos J., 2005d:93039**

Shankar, Shiva Geometric completeness of distribution spaces. (English summary) **2005a:35013**

Torres-Torriti, M. *see* **Michalska, H., 2005b:93134**

Vainchtein, D. L. (*with* Mezić, Igor) Control of vortex elements: flat coordinates vs. adiabatic control. (English summary) **2005c:76026**

Vakhrameev, S. A. On the geometry of vectorgrams for a certain class of nonlinear smooth control systems. **2005f:49004**

Vivalda, Jean-Claude *see* **Ammar, Sabeur, 2005m:93020**

Volgin, L. I. (*with* Klimovskiĭ, A. B.; Zarukin, A. I.) An implicative choice algebra as a basis for information technologies and control systems in a continuous domain. (Russian) **2005d:03118**

Zarukin, A. I. *see* **Volgin, L. I. et al., 2005d:03118**

Items listed otherwise than by author

Encyclopaedia of Mathematical Sciences *see* **Agrachev, Andrei A., 2005b:93002**

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Araki, Mituhiko *see* **Zhou, Jun² et al., 2005k:93047**

Ball, Joseph A. (*with* Petersen, Mark Adam; van der Schaft, A. J.) Inner-outer factorization for nonlinear noninvertible systems. (English summary) **2005a:93039**

Djouadi, Seddik M. Operator theoretic approach to the optimal two-disk problem. (English summary) **2005h:93036**

Grabowski, Piotr On the circle criterion for boundary control systems in factor form. (English summary) **2005a:93040**

Gray, W. Steven (*with* Wang, Yuan²) Fliess operators on L_p spaces: convergence and continuity. (English summary) **2005b:93040**

Hagiwara, Tomomichi *see* **Zhou, Jun² et al., 2005k:93047**

Hou, Xue-Zhang (*with* Tsui, Sze-Kai) Analysis and control of a two-link and three-joint elastic robot arm. (English summary) **2005b:93041**

Jacob, Birgit (*with* Partington, Jonathan R.) Admissibility of control and observation operators for semigroups: a survey. (English summary) **2005c:93023**

Partington, Jonathan R. *see* **Jacob, Birgit, 2005c:93023**

Petersen, Mark Adam *see* **Ball, Joseph A. et al., 2005a:93039**

Pommaret, Jean-François (*with* Quadrat, A.) A differential operator approach to multidimensional optimal control. (English summary) **2005h:93037**

Quadrat, A. *see* **Pommaret, Jean-François, 2005h:93037**

Sandberg, Irwin W. Continuous multidimensional systems and the impulse response scandal. (English summary) **2005b:93042**

van der Schaft, A. J. *see* **Ball, Joseph A. et al., 2005a:93039**

Ştefan, Radu State-space characterization of (J, J')-lossless systems. (English summary) **2005c:93024**

Stefanovski, Jovan Polynomial J-spectral factorization in minimal state space. (English summary)

Tsui, Sze-Kai *see* **Hou, Xue-Zhang, 2005b:93041**

Wang, Yuan² *see* **Gray, W. Steven, 2005b:93040**

Zhou, Jun² (*with* Hagiwara, Tomomichi; Araki, Mituhiko) Spectral characteristics and eigenvalues computation of the harmonic state operators in continuous-time periodic systems. (English summary) **2005k:93047**

Items with secondary classifications in 93B28

(Alpay, Daniel) *see* **Operator theory, systems theory and scattering theory: multidimensional generalizations, 2005j:47001**

Anderson, Brian D. O. *see* **Fujimoto, Kenji et al.**

Avalos, George (*with* Lasiecka, Irena) The null controllability of thermoelastic plates and singularity of the associated minimal energy function. (English summary) **2005b:93015**

Bátkai, András (*with* Engel, Klaus-Jochen) Abstract wave equations with generalized Wentzell boundary conditions. (English summary) **2005g:34124**

Bokor, József *see* **de Hoog, Thomas J. et al., 2005k:93040**

Cantoni, Michael (*with* Vinnicombe, Glenn) Controller discretization: a gap metric framework for analysis and synthesis. (English summary) **2005f:93111**

Chilarescu, Constantin (*with* Pogan, Alin; Preda, Ciprian) On the connection between the exponential stability of C_0-semigroups and the admissibility of a certain Sobolev space. (English summary) **2005f:34162**

Curtain, Ruth F. Model reduction for control design for distributed parameter systems. **2005d:93027**

— *see also* **Opmeer, Mark R., 2005k:93042**

De Bruyne, Franky *see* **Fujimoto, Kenji et al.**

Dymkov, M. (*with* Gaĭshun, I. V.; Rogers, Eric; Gałkowski, K.; Owens, D. H.) Control theory for a class of 2D continuous-discrete linear systems. (English summary) **2005d:93084**

El Jaï, Abdelhak Quelques problèmes de contrôle propres aux systèmes distribués. (French summary) [Some control problems particular to distributed systems] **2005d:93070**

Engel, Klaus-Jochen *see* **Bátkai, András, 2005g:34124**

Fatouros, Stavros (*with* Karcanias, Nicos) Resultant properties of gcd of many polynomials and a factorization representation of gcd. (English summary) **2005b:13048**

Fujimoto, Kenji (*with* Anderson, Brian D. O.; De Bruyne, Franky) A parametrization for closed-loop identification of nonlinear systems based on differentially coprime kernel representations. (English summary)

— (*with* Scherpen, Jacquelien M. A.) Nonlinear input-normal realizations based on the differential eigenstructure of Hankel operators. (English summary) **2005j:93016**

Gaĭshun, I. V. *see* **Dymkov, M. et al., 2005d:93084**

Gałkowski, K. (*with* Vinnikov, Victor) Guest editorial [Multidimensional control systems: theory with a view to applications].

— *see also* **Dymkov, M. et al., 2005d:93084**

Ge, Zhaoqiang (*with* Zhang, Beibei) Feedback and pole assignment of the second order singular distributed parameter control systems. (English summary) **2005e:93063**

Guo, Faming (*with* Huang, Fa-Lun) Boundary feedback stabilization of the undamped Euler-Bernoulli beam with both ends free. (English summary) **2005e:93076**

Heuberger, Peter S. C. *see* **de Hoog, Thomas J. et al., 2005k:93040**

de Hoog, Thomas J. (*with* Szabó, Zoltán István; Heuberger, Peter S. C.; Van den Hof, Paul M. J.; Bokor, József) Minimal partial realization from generalized orthonormal basis function expansions. (English summary) **2005k:93040**

Huang, Fa-Lun *see* **Guo, Faming, 2005e:93076**

Iftime, Orest V. (*with* Sasane, Amol J.) Sub-optimal Hankel norm approximation problem: a frequency-domain approach. (English summary) **2005a:93038**
Immonen, Eero On the concept of point value in the infinite-dimensional realization theory. (English summary) **2005j:93018**
Ishijima, Shintaro *see* **Kojima, Akira**, **2005b:93059**
Jacob, Birgit What is the better signal space for discrete-time systems: $l_2(\mathbb{Z})$ or $l_2(\mathbb{N}_0)$? (English summary) **2005k:93180**
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Khristov, Nikolaĭ D. *see* **Konstantinov, Mikhail M. et al.**, **2005k:93063**
Kojima, Akira (*with* Ishijima, Shintaro) H^∞ preview tracking in output feedback setting. (English summary) **2005b:93059**
Konstantinov, Mikhail M. (*with* Petkov, Petko Khr.; Khristov, Nikolaĭ D.) The technique of splitting operators in perturbation control theory. (English summary) **2005k:93063**
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Opmeer, Mark R. (*with* Curtain, Ruth F.) Linear quadratic Gaussian balancing for discrete-time infinite-dimensional linear systems. (English summary) **2005k:93042**
Owens, D. H. *see* **Dymkov, M. et al.**, **2005d:93084**
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Sandberg, Irwin W. Uniform approximation of discrete-time periodically varying systems. (English summary) **2005b:93104**
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— Erratum: "Uniform approximation of discrete-time periodically varying systems" [Circuits Systems Signal Process. **23** (2004), no. 4, 285–298; MR2075148 (2005b:93104)]. — Bounded inputs and the representation of linear system maps. (English summary) **2005m:93070**
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Ayala Bravo, Víctor (*with* Hacibekiroglu, A. K.; Kizil, E.; Zegarra, L. R.) Transitivity of linear control systems on Lie groups. (English and Portuguese summaries) **2005j:93023**
Boscain, Ugo (*with* Chambrion, Thomas; Gauthier, Jean Paul) Optimal control on a N-level quantum system. (English summary) **2005d:93038**
Braga Barros, Carlos J. (*with* San Martin, Luiz A. B.) Maximal chain transitive sets for local groups. (English summary) **2005d:93039**
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Kang, Jian-ling (*with* Wang, Hong[5]; Ye, Hua-Wen) Symplectic mapping and Hamiltonian control systems. (English and Chinese summaries)
Kizil, E. *see* **Ayala Bravo, Víctor et al.**, **2005j:93023**
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Zegarra, L. R. *see* **Ayala Bravo, Víctor et al.**, **2005j:93023**

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Albertini, Francesca (*with* D'Alessandro, Domenico) Model identification for spin networks. (English summary) **2005j:82008**
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Ball, Joseph A. (*with* Sadosky, Cora; Vinnikov, Victor) Conservative linear systems, unitary colligations and Lax-Phillips scattering: multidimensional generalizations. (English summary) **2005e:47152**
Birtea, Petre (*with* Puta, Mircea; Ratiu, Tudor S.) Controllability of Poisson systems. (English summary) **2005m:93008**
Bokor, József (*with* Balas, G.) Detection filter design for LPV systems—a geometric approach. (English summary) **2005m:93148**
Bonnard, Bernard (*with* Faubourg, Ludovic; Trélat, Emmanuel) Conjugate times for smooth singular trajectories and bang-bang extremals. (English summary) **2005h:49056**
— (*with* Faubourg, Ludovic; Trélat, Emmanuel) Classification of local optimal syntheses for time minimal control problem with state constraints. (English summary) **2005d:49038**
Boscain, Ugo (*with* Piccoli, Benedetto) ★ Optimal syntheses for control systems on 2-D manifolds. **2005m:49002**
Bullo, Francesco (*with* Lewis, Andrew D.) ★ Geometric control of mechanical systems. **2005h:70030**
Butkovskiĭ, A. G. (*with* Babichev, Aleksandr V.) Brief review of tasks and results of the program of creation of unified geometrical theory of control (UGTC). (English summary) **2005j:93006**
Calin, Ovidiu L. (*with* Chang, Der-Chen; Greiner, Peter C.) Real and complex Hamiltonian mechanics on some subRiemannian manifolds. (English summary) **2005k:53033**
Chang, Der-Chen *see* **Calin, Ovidiu L. et al.**, **2005k:53033**
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— Flat control systems and deformations of structures on diffieties. (English summary) **2005f:93082**
Clotet, Josep (*with* García-Planas, Ma. Isabel) Second order generalized linear systems. A geometric approach. (English summary)
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Greiner, Peter C. *see* **Calin, Ovidiu L. et al.**, **2005k:53033**
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— *see also* **Cortés, Jorge et al.**, **2005g:93024**
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Stefani, Gianna (*with* Zezza, PierLuigi) Time optimality of a bang-bang trajectory with Maple. (English summary) (*see* **2005b:93007**)
— *see also* **Poggiolini, Laura**, **2005g:49037**
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Apartsin, A. S. (*with* Solodusha, S. V.) On the optimization of the amplitudes of test signals in the identification of Volterra kernels. (Russian. Russian summary) **2005e:93036**
Arkov, V. Yu. (*with* Kulikov, G. G.; Breĭkin, T. V.) Optimal spectral resolution in system identification. (English summary)
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— *see also* **Bulycheva, E. Yu. et al.**, **2005g:93034**
Bulycheva, E. Yu. (*with* Bulychev, Yu. G.; Burlaĭ, I. V.) A decomposition approach to the solution of ill-conditioned problems of parametric identification. (Russian. Russian summary) **2005g:93034**
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— Iterative computation of marginally stable trajectories. (English summary)
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— (*with* Ferchichi, J.; Kunisch, Karl) Differentiability properties of the L^1-tracking functional and application to the Robin inverse problem. (English summary) **2005f:49006**
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Date, Paresh (*with* Vinnicombe, Glenn) Algorithms for worst case identification in $\mathscr{H}_\infty$ and in the ν-gap metric. (English summary)
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Fu, Dengwei (*with* Willson, Alan N., Jr.) Trigonometric polynomial interpolation for timing recovery. (English summary)
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Gerdts, Matthias Parameter optimization in mechanical multibody systems and linearized Runge-Kutta methods. (English summary) (*see* **2005a:00022**)
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Han, Zhi Gang An integrated approach to modeling and adaptive control. (Chinese. English and Chinese summaries)
Hasiewicz, Zygmunt (*with* Mzyk, Grzegorz) Combined parametric-nonparametric identification of Hammerstein systems. (English summary) **2005c:93102**
Haykin, Simon (*with* Chen, Zhe[1]; Becker, Suzanna) Stochastic correlative learning algorithms. (English summary)
Hebri, B. (*with* Cherruault, Yves) Contribution to the identification of linear compartmental systems. (English summary) **2005d:15020**
Hildebrand, Roland (*with* Gevers, Michel) Quantification of the variance of estimated transfer functions in the presence of undermodeling. (English summary) **2005b:93153**
Holstein-Rathlou, Niels-Henrik *see* **Ditlevsen, Susanne et al.**
Hong, Lang (*with* Cui, Ningzhou; Pronobis, Mark T.; Scott, Stephen) Simultaneous ground moving target tracking and identification using wavelets features from HRR data. (English summary)
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Huang, Si Xun (*with* Han, Wei) Application of techniques in inverse problems to variational data assimilation in meteorology and oceanography. (English summary) **2005e:86008**
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Imanuvilov, Oleg Yurievich (*with* Yamamoto, Masahiro) Carleman estimates for the non-stationary Lamé system and the application to an inverse problem. (English summary) **2005k:35429**
Iyer, Ram Venkataraman (*with* Tan, Xiaobo; Krishnaprasad, P. S.) Approximate inversion of the Preisach hysteresis operator with application to control of smart actuators. (English summary) **2005m:93073**
Kaashoek, Marinus A. *see* **Frazho, A. E., 2005b:47032**
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Kuusela, Pirkko (*with* Ocone, Daniel; Sontag, Eduardo D.) Learning complexity dimensions for a continuous-time control system. (English summary) **2005i:93037**
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Lin, Chih-Min *see* **Hsu, Chun-Fei**
Lin, Chun-Liang *see* **Liu, Van-Tsai et al., 2005c:93081**
Lin, Zhongyan (*with* Gilbert, Robert P.) Numerical algorithm based on transmutation for solving inverse wave equation. (English summary) **2005f:65119**
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Ma, Fu-ming (*with* Sun, Fangfang) Numerical reconstruction of piecewise constant potential for one dimensional Helmholtz equation. (English summary) (*see* **2005d:35008**)
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Martínez-Guerra, R. (*with* Garrido-Moctezuma, R.; Osorio-Miron, A.) The fault detection problem in nonlinear systems using residual generators. (English summary) **2005m:93025**
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Metel'skiĭ, A. V. (*with* Minyuk, S. A.) On the construction of a continuous reconstruction operation in observation problems for ordinary linear systems. (Russian. Russian summary) **2005m:34023**
— (*with* Minyuk, S. A.) On constructive methods for solving dual problems of the controllability and identifiability of linear systems of neutral type. (Russian. Russian summary) **2005a:93022**
Mevel, Laurent (*with* Finesso, Lorenzo) Asymptotical statistics of misspecified hidden Markov models. (English summary) **2005d:93143**
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— *see also* **Timmer, Jens et al.**
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Perelman, M. I. (*with* Marchuk, Gurii I.; Borisov, S. E.; Kazennykh, B. Ya.; Avilov, K. K.; Karkach, A. S.; Romanyukha, A. A.) Tuberculosis epidemiology in Russia: the mathematical model and data analysis. (English summary)
Perkins, Theodore J. (*with* Hallett, Michael T.; Glass, Leon) Inferring models of gene expression dynamics. (English summary)
Powers, S. J. (*with* Brain, Phil; Barlow, P. W.) First-order differential equation models with estimable parameters as functions of environmental variables and their application to a study of vascular development in young hybrid aspen stems. (English summary) **2005b:92065**
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de la Sen, Manuel (*with* Garrido, A. J.; Barambones, O.; Maseda, F. J.) Expert schemes for the obtaining of discrete models for LTI systems using real sampling and parameter identification. (English summary)
— *see also* **Bilbao-Guillerna, A. et al.**
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Smolin, V. V. (*with* Shiryaev, V. I.) Estimation of the unknown parameters and state of microeconomic systems under uncertainty conditions using the example of a production-sales firm. (Russian. Russian summary) **2005h:91140**
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— *see also* **Müller, T. G.**
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Troutt, Marvin D. (*with* Tadisina, Suresh K.; Sohn, Changsoo; Brandyberry, Alan A.) Linear programming system identification. (English summary) **2005e:90063**
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Wang, Le Yi (*with* Zhang, Ji-Feng; Yin, Gang George) System identification using binary sensors. (English summary) **2005d:93144**
Wang, QuanFang (*with* Feng, De Xing; Cheng, Dai Zhan) Parameter identification for a class of abstract nonlinear parabolic distributed parameter systems. (English summary) **2005i:49041**
Wang, Shu Ning General constructive representations for continuous piecewise-linear functions. (English summary) **2005e:41031**
Wang, Zhen Bin (*with* Cao, Guang Yi; Zhu, Xin Jian) Identification algorithm for a kind of fractional order system. (English and Chinese summaries) **2005e:93161**
Wei, Rui Xuan (*with* Kong, Xiang Yu; Han, Chong Zhao; Zhang, You Yun; Wu, Li Xun) New online modeling method for a class of nonlinear systems. (Chinese. English and Chinese summaries)
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Yuan, Jing[1] Improving an adaptive controller for non-minimum phase plants. (English summary)
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Zelyk, Ya. I. (*with* Lychak, M. M.; Shevchenko, Vladimir Nikolaevich) Modeling and identifying controlled objects using the Interval-Set Analysis MATHLAB Toolbox. (Russian. English, Russian and Ukrainian summaries)
Zerrik, E. (*with* Bourray, H.; El Jaï, Abdelhak) Regional flux reconstruction for parabolic systems. (English summary) **2005a:65095**
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Cong, Ling (*with* Wang, You Yi[2]; Hill, David John) Co-ordinated control design of generator excitation and SVC for transient stability and voltage regulation enhancement of multi-machine power systems. (English summary)
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Faanes, Audun (*with* Skogestad, Sigurd) Feedforward control under the presence of uncertainty. (English summary)
Fang, Hua Jing *see* **Zheng, Ying[3]**
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Gong, Jianqin (*with* Yao, Bin) Neural network adaptive robust control of nonlinear systems in semi-strict feedback form. (English summary)
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He, Da Kuo *see* **Jia, Ming Xing et al.**
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Hsieh, Chien-Shu Performance gain margins of the two-stage LQ reliable control. (English summary)
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Ji, Hai Bo *see* **Kang, Yu et al.**
Jia, Ming Xing (*with* Wang, Fu Li; He, Da Kuo) Robust nonlinear fault diagnosis for sensors based on the RBF neural network. (Chinese. English and Chinese summaries)
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Johansson, Karl Henrik Interaction bounds in multivariable control systems. (English summary)
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Kang, Yu (*with* Xi, Hong Sheng; Ji, Hai Bo; Wang, Jun[8]) Robust adaptive control for a class of uncertain hybrid linear systems. (Chinese. English and Chinese summaries)
Keesman, K. J. *see* **Stigter, J. D.**
Kelkar, A. G. (*with* Joshi, Suresh Meghashyam) Control of elastic systems via passivity-based methods. (English summary)
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Lan, Weiyao (*with* Huang, Jie[1]) On the discrete-time robust nonlinear servomechanism problem. (English summary) **2005a:93051**
Langson, W. (*with* Chryssochoos, I.; Raković, S. V.; Mayne, D. Q.) Robust model predictive control using tubes. (English summary)
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Li, Guangwei[1] (*with* Chen, Ke Dong) Robust output feedback control for a class of nonlinear uncertain systems with time-delay. (Chinese. English and Chinese summaries)
Li, Xiu Ying[1] (*with* Xing, Wei[1]) Robustly positive real control for uncertain singular system. (Chinese. English and Chinese summaries)
Limon, D. *see* **Alamo, T. et al., 2005m:93043**
Liu, En Dong (*with* Jing, Yuan Wei; Zhang, Si Ying) Robust control for uncertain nonlinear composite systems based on neural networks. (Chinese. English and Chinese summaries)
Liu, Guo Rong (*with* Luo, Yi Ping; Wan, Bai Wu) H_2/H_∞ fuzzy output feedback control for nonlinear MIMO systems. (Chinese. English and Chinese summaries)

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de Oliveira, P. J. (*with* Oliveira, Ricardo C. L. F.; Leite, V. J. S.; Montagner, Vinícius F.; Peres, Pedro L. D.) $\mathscr{H}_2$ guaranteed cost computation by means of parameter dependent Lyapunov functions. (English summary) **2005b:93052**
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Raković, S. V. (*with* Kerrigan, Eric C.; Kouramas, K. I.; Mayne, D. Q.) Invariant approximation of the minimal robust positively invariant set. (English summary) **2005i:93031**
— *see also* **Langson, W. et al.**
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Wang, Fu Li *see* **Jia, Ming Xing et al.**
Wang, Haibo *see* **Zhong, Maiying et al., 2005f:93044**
Wang, Jun[8] *see* **Kang, Yu et al.**
Wang, Rui (*with* Sun, Wen An; Qi, Li; Zhao, Jun[2]) Guaranteed cost robust control for a class of uncertain switched linear systems. (Chinese. English and Chinese summaries)
Wang, You Yi[2] *see* **Cong, Ling et al.**
Watanabe, Keiji *see* **Izuta, Guido, 2005b:93049**
Xi, Hong Sheng *see* **Kang, Yu et al.**
Xie, Lihua (*with* Soh, Yeng Chai; Du, Chunling; Zou, Yun) Robust H_2 estimation and control. (English summary) **2005d:93045**
Xing, Wei[1] *see* **Li, Xiu Ying[1]**
Xu, Sheng Yuan (*with* Lam, James) New positive realness conditions for uncertain discrete descriptor systems: analysis and synthesis. (English summary) **2005h:93047**
Yakubovich, V. A. *see* **Proskurnikov, A. V., 2005e:93042**
Yao, Bin *see* **Gong, Jianqin**
Ygorra, S. *see* **Henry, David et al.**
Young, Peter M. *see* **Elia, Nicola et al., 2005i:93030**
Yue, Dong (*with* Lam, James) Non-fragile guaranteed cost control for uncertain descriptor systems with time-varying state and input delays. (English summary) **2005j:93026**
Zappa, Giovanni *see* **Chisci, L. et al.**
Zhang, Si Ying *see* **Liu, En Dong et al.**
Zhao, Jun[2] *see* **Wang, Rui et al.**
Zheng, Ying[3] (*with* Fang, Hua Jing) Robust fault tolerant control of networked control system with time-varying delays. (Chinese. English and Chinese summaries)
Zhong, Maiying (*with* Ding, Steven Xianchun; Lam, James; Wang, Haibo) An optimization approach to fault detection observer design for neutral delay systems. (English summary) **2005f:93044**
Zolghadri, A. *see* **Henry, David et al.**
Zou, Yun *see* **Xie, Lihua et al., 2005d:93045**

Items with secondary classifications in 93B35

Adam, Klaus On the relation between robust and Bayesian decision making. (English summary) **2005b:91061**
Aihara, Kazuyuki *see* **Tomioka, Ryota et al.**
Alonso-Quesada, S. *see* **Bilbao-Guillerna, A. et al.**
Anthonis, Jan (*with* Ramon, Herman) Linear mechanical systems and dyadic transfer function matrices. (English summary) **2005k:93143**
Arcak, Murat (*with* Kokotović, Petar V.) Nonlinear observers: a circle criterion design and robustness analysis. (English summary)
Ayasun, Saffet (*with* Nwankpa, Chika O.; Kwatny, Harry G.) Computation of singular and singularity induced bifurcation points of differential-algebraic power system model. (English summary) **2005i:34002**
Ball, Joseph A. (*with* Sadosky, Cora; Vinnikov, Victor) Conservative linear systems, unitary colligations and Lax-Phillips scattering: multidimensional generalizations. (English summary) **2005e:47152**
Bao, Sheng (*with* Feng, Yong[2]; Sun, Li Xia) Design of robust sliding mode observer for nonlinear uncertain systems. (Chinese. English and Chinese summaries)
Barhen, Jacob (*with* Protopopescu, Vladimir A.; Reister, David B.) Consistent uncertainty reduction in modeling nonlinear systems. (English summary) **2005h:93055**
Bashkirtseva, I. A. (*with* Ryashko, L. B.) Sensitivity and chaos control for the forced nonlinear oscillations. (English summary) **2005m:37068**
Battilotti, Stefano Generalized dilations and the stabilization of uncertain systems via measurement feedback. (English summary) **2005c:93077**
Ben Jemaa, Lamia (*with* Davison, Edward Joseph) Performance limitations in the robust servomechanism problem for discrete time periodic systems. (English summary)
Bianchini, Gianni (*with* Tesi, Alberto; Vicino, Antonio) A characterization of robust SPR synthesis for systems with l_p parametric uncertainty. (English summary) **2005f:93058**
Bien, Zeungnam *see* **Kim, Yong-Tae[1], 2005f:93100**
Bilbao-Guillerna, A. (*with* de la Sen, Manuel; Ibeas, Asier; Alonso-Quesada, S.) Robustly multiestimation scheme for discrete control and identification with model reduction and use of fractional hold. (English summary)
Blanchini, Franco (*with* Pellegrino, Felice Andrea; Visentini, Luca) Control of manipulators in a constrained workspace by means of linked invariant sets. (English summary) **2005e:93103**
Bolouri, Hamid *see* **Orrell, David**
Boltyanskii, Vladimir Grigor'evich Tent method, optimization and robustness. (English summary) **2005k:49001**
Bondia, Jorge (*with* Picó, Jesús) Application of functional intervals to the response evaluation of linear time-invariant systems with fuzzy input. (English summary) **2005c:93051**
Borukhov, V. T. Robust stratification of the set of solutions of a linear matrix inequality. (Russian. Russian summary) **2005h:15057**
Bourchtein, Andrei (*with* Bourchtein, Ludmila; Naumov, Maxim) On correctness of the vertical discretization in numerical weather prediction models. (English summary) **2005e:34005**
Bourchtein, Ludmila *see* **Bourchtein, Andrei et al., 2005e:34005**
von Bremen, Hubertus F. *see* **Udwadia, Firdaus E. et al., 2005b:93075**
Bunich, A. L. A method of successive improvement in the problem of the design of a controller of a linear discrete plant. (Russian. Russian summary) **2005j:93045**
Calafiore, Giuseppe *see* **Tempo, Roberto et al., 2005m:93003**
Chai, Tian You *see* **Song, Chong Hui et al.** *and* **Wang, Yong Fu et al.**
Chen, Juming *see* **Mei, Shengwei et al.**
Chen, Shinn-Horng Regional eigenvalue-clustering robustness of linear output feedback systems with both time-varying structured and unstructured uncertainties as well as nonlinear actuators. (English summary) **2005d:93104**
Chen, Wu Hua (*with* Guan, Zhi Hong; Lu, Xiao Mei) Delay-dependent guaranteed cost control for uncertain discrete-time systems with both state and input delays. (English summary) **2005e:93122**
Chen, Zhiyong (*with* Huang, Jie[1]) Global robust output regulation for output feedback systems. (English summary) **2005g:93103**
Cheng, Bangwen (*with* Zhang, Jing[10]) Robust controllability for a class of uncertain linear time-invariant MIMO systems. (English summary) **2005f:93008**
Cherkaev, Andrej *see* **Cherkaeva, Elena, 2005m:74081**
Cherkaeva, Elena (*with* Cherkaev, Andrej) Principal compliance and robust optimal design. (English summary) **2005m:74081**
Chiappa, Caroline *see* **Le Gorrec, Yann, 2005i:93043**
Chien, Chiang-Ju (*with* Yao, Chia-Yu) Iterative learning of model reference adaptive controller for uncertain nonlinear systems with only output measurement. (English summary)
Dabbene, Fabrizio *see* **Tempo, Roberto et al., 2005m:93003**
Dauphin-Tanguy, Geneviéve *see* **Kam, Casimir Sié, 2005m:93085**
Davison, Edward Joseph *see* **Ben Jemaa, Lamia**
Ding, Bao Cang (*with* Xi, Yu Geng; Li, Shao Yuan[2]) A synthesis approach of on-line constrained robust model predictive control. (English summary)
Ding, Steven Xianchun *see* **Zhang, Ping[8] et al.**
Djouadi, Seddik M. Operator theoretic approach to the optimal two-disk problem. (English summary) **2005h:93036**
— MIMO disturbance and plant uncertainty attenuation by feedback. (English summary) **2005g:93054**
Doi, Akimitsu *see* **Hinamoto, Takao et al., 2005d:94032**
Dolgin, Yuri Author's reply: "Comments on: 'On Routh-Pade model reduction of interval systems'" [IEEE Trans. Automat. Control **50** (2005), no. 2, 273–274; MR2116438 (2005j:93021a)] by S.-F. Yang. **2005j:93021b**
— *see also* **Yang, Shih-Feng, 2005j:93021a**
Du, Haiping (*with* Lam, James; Sze, Kam Yim) Non-fragile H_∞ vibration control for uncertain structural systems. (English summary) **2005b:93054**
Duan, Guang Ren *see* **Wu, Ai Guo**
Dubovik, S. A. Robustness and nonstiffness of singularly perturbed control systems. (Russian. English, Russian and Ukrainian summaries)
Dumont, Guy A. *see* **Stewart, G. E. et al., 2005k:93108**
Eskinat, Esref *see* **Orbak, Âli Yurdun et al., 2005g:70037**
Fedotov, Andrey Anatolievich *see* **Kumkov, S. I. et al., 2005a:93011**
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Feng, Gang[1] *see* **Zhou, Shao Sheng et al., 2005k:93127**
Feng, Yong[2] *see* **Bao, Sheng et al.**
Ferreres, Gilles Reduction of dynamic LFT systems with LTI model uncertainties. (English summary) **2005a:93035**
Freudenberg, J. S. *see* **Woodyatt, A. R. et al.**
Gayer, T. Control sets and their boundaries under parameter variation. (English summary) **2005g:93063**
Ghosh, Mini *see* **Pugliese, Andrea et al., (2005d:92001)**

Giordani, Paolo[2] (*with* Söderlind, Paul) Solution of macromodels with Hansen-Sargent robust policies: some extensions. (English summary) **2005e:91124**
Glad, S. T. (*with* Helmersson, Anders; Ljung, Lennart) Robustness guarantees for linear control designs with an estimated nonlinear model error model. (English summary) **2005c:93030**
Gorinevskiĭ, D. M. *see* **Stewart, G. E. et al., 2005k:93108**
Goto, Masuo *see* **Mei, Shengwei et al.**
Grimble, M. J. Robustness of full-order and restricted-structure optimal control systems. (English summary) **2005b:93160**
Grimm, Gene (*with* Teel, Andrew R.; Zaccarian, Luca) Robust linear anti-windup synthesis for recovery of unconstrained performance. (English summary) **2005b:93065**
Guan, Zhi Hong *see* **Chen, Wu Hua et al., 2005e:93122**
Guardabassi, Guido O. Robust absolute stability of a class of s.i.s.o. control systems. (English summary) **2005b:93127**
Gupta, Yash P. *see* **Webber, Jonathan R., 2005i:93045**
Gusev, M. I. On stability of information domains in guaranteed estimation problem. (English summary) **2005c:93031**
Harrington, Ilan (*with* Socolar, Joshua E. S.) Design and robustness of delayed feedback controllers for discrete systems. (English summary) **2005e:93090**
Hatoh, Yuji *see* **Shiraishi, Fumihide et al.**
Helmersson, Anders *see* **Glad, S. T. et al., 2005c:93030**
Hinamoto, Takao (*with* Sugie, Yuji; Doi, Akimitsu; Muneyasu, Mitsuji) Synthesis of 3-D separable-denominator state-space digital filters with minimum L_2-sensitivity. (English summary) **2005d:94032**
Hinrichsen, Diederich (*with* Pritchard, Anthony J.) ★ Mathematical systems theory. I. **2005j:93001**
Hosseini, Mohamed *see* **Udwadia, Firdaus E. et al., 2005b:93075**
Hu, Sanqing (*with* Wang, Jun[3]) A gradient flow approach to on-line robust pole assignment for synthesizing output feedback control systems. (English summary)
Hu, Ting Shu (*with* Lin, Zongli) Properties of the composite quadratic Lyapunov functions. (English summary) **2005c:93095**
Huang, Biao *see* **Zhang, Li Qian**[2]**, 2005c:93037**
Huang, Chunqing (*with* Shi, Song Jiao) Globally robust nonlinear PID controllers for robot manipulators with an uncertain Jacobian matrix. (English summary)
Huang, Jie[1] *see* **Chen, Zhiyong, 2005g:93103**
Huang, Ying J. (*with* Kuo, Tzu-chun; Lee, Hsiang K.) Robust limit cycle suppression for control systems with parametric uncertainty and nonlinearity. (English summary) **2005a:93126**
Ibeas, Asier *see* **Bilbao-Guillerna, A. et al.**
Iglesias, Pablo A. Tradeoffs in linear time-varying systems: an analogue of Bode's sensitivity integral. (English summary)
Ihlefeld, Curtis M. *see* **Qu, Zhihua et al.**
Ilchmann, Achim (*with* Ryan, Eugene P.) On tracking and disturbance rejection by adaptive control. (English summary) **2005a:93088**
Ingalls, Brian P. (*with* Sauro, Herbert M.) Sensitivity analysis of stoichiometric networks: an extension of metabolic control analysis to non-steady state trajectories. (English summary) **2005j:92030**
— *see also* **Karafyllis, Iasson, 2005j:93073**
Irie, Toshinori *see* **Shiraishi, Fumihide et al.**
Ismail, Abdulla *see* **Mahmoud, Magdi S., 2005k:93214**
James, M. R. (*with* Petersen, Ian R.) A nonsmooth strict bounded real lemma. (English summary) **2005f:93052**
Jiao, Xiaohong (*with* Shen, Tie Long; Tamura, Katsutoshi) Passivity-based robust feedback control for non-linear systems with input dynamical uncertainty. (English summary) **2005c:93038**
Jin, Yufang *see* **Qu, Zhihua et al.**
Jing, Wu-Xing (*with* McInnes, Colin R.) Memorised quasi-time–fuel-optimal feedback control of perturbed double integrator. (English summary)
Jönsson, Ulf T. Robustness of trajectories with finite time extent. (English summary) **2005k:49083**
Kam, Casimir Sié (*with* Dauphin-Tanguy, Geneviéve) Bond graph models of structured parameter uncertainties. (English summary) **2005m:93085**
Karafyllis, Iasson The non-uniform in time small-gain theorem for a wide class of control systems with outputs. (English summary) **2005j:93073**
Kashima, Kenji (*with* Yamamoto, Yutaka) A new characterization of invariant subspaces of H^2 and applications to the optimal sensitivity problem. (English summary) **2005m:93045**
Kim, Yong-Tae[1] (*with* Bien, Zeungnam) Robust adaptive fuzzy control in the presence of external disturbance and approximation error. (English summary) **2005f:93100**
Kimura, Hidenori *see* **Tomioka, Ryota et al.** *and* **Oishi, Yasuaki**
Kobayashi, Tetsuya J. *see* **Tomioka, Ryota et al.**
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Kostina, Ekaterina Robust parameter estimation in dynamic systems. (English summary) **2005g:93117**
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Koussiouris, T. G. *see* **Koumboulis, F. N. et al., 2005a:93128**
Kumar, Ravi *see* **Udwadia, Firdaus E. et al., 2005b:93075**
Kumkov, S. I. (*with* Patsko, V. S.; Pyatko, S. G.; Fedotov, Andrey Anatolievich) Informational sets in a problem of observation of aircraft trajectory. (English summary) **2005a:93011**
Kuntsevich, V. M. Synthesis of robustly optimal adaptive systems for the control of time-dependent objects under bounded perturbations. (Russian. English, Russian and Ukrainian summaries) **2005h:93062**
Kuo, Tzu-chun *see* **Huang, Ying J. et al., 2005a:93126**
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Lee, Hsiang K. *see* **Huang, Ying J. et al., 2005a:93126**
Le Gorrec, Yann (*with* Chiappa, Caroline) Controller parametric robustification using observer-based formulation and multimodel design technique. (English summary) **2005i:93043**
Li, Shao Yuan[2] *see* **Ding, Bao Cang et al.**
Lin, Jun *see* **Zhang, Huanshui et al.**
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Mahmoud, Magdi S. (*with* Ismail, Abdulla) Robust performance analysis and synthesis of multi-state-delay jumping systems. (English summary) **2005k:93214**
Matrosov, V. M. (*with* Somov, E. I.) Nonlinear problems of spacecraft fault tolerant control systems. (English summary) (*see* **2005c:93005**)
McInnes, Colin R. *see* **Jing, Wu-Xing**
Mei, Shengwei (*with* Chen, Juming; Lu, Qiang[1]; Yokoyama, Akihiko; Goto, Masuo) Coordinated nonlinear robust control of TCSC and excitation for multi-machine systems. (English summary)
Middleton, Richard H. *see* **Woodyatt, A. R. et al.**
Mozzhechkov, V. A. Design of linear controllers with a simple structure. (Russian. Russian summary) **2005j:93033**
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Nebylov, A. V. ★ Ensuring control accuracy. **2005b:93005**
Nwankpa, Chika O. *see* **Ayasun, Saffet et al., 2005i:34002**
Oishi, Yasuaki (*with* Kimura, Hidenori) Computational complexity of randomized algorithms for solving parameter-dependent linear matrix inequalities. (English summary)
Orbak, Âli Yurdun (*with* Eskinat, Esref; Turkay, Osman S.) Physical parameter sensitivity of system eigenvalues and physical model reduction. (English summary) **2005g:70037**
Orrell, David (*with* Bolouri, Hamid) Control of internal and external noise in genetic regulatory networks. (English summary)
Ortega, Romeo *see* **Shen, Tie Long et al.**
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Pugliese, Andrea (*with* Rosà, Roberto; Ghosh, Mini) A mathematical model for tick-borne infections: a numerical study. (English summary) (*see* **2005d:92001**)
Pyatko, S. G. *see* **Kumkov, S. I. et al., 2005a:93011**
Qian, Jiang[1] (*with* Xu, Shu-Fang) Robust partial eigenvalue assignment problem for the second-order system. (English summary)
Qu, Shao Cheng (*with* Wang, Yong Ji) Robust sliding mode control for uncertain discrete time systems. (English summary)
Qu, Zhihua (*with* Ihlefeld, Curtis M.; Jin, Yufang; Saengdeejing, Apiwat) Robust fault-tolerant self-recovering control of nonlinear uncertain systems. (English summary)
Ramon, Herman *see* **Anthonis, Jan, 2005k:93143**
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Shao, Han Yong (*with* Feng, Chun Bo) Robust quadratic dissipative analysis and control for discrete-time systems. (Chinese. English and Chinese summaries)
Shcherban′, I. V. (*with* Shcherban′, O. G.) Autonomous identification of a gyrostabilizer drift model based on the concept of the inverse problem in sensitivity theory. (Russian. Russian summary)
Shcherban′, O. G. *see* **Shcherban′, I. V.**
Shen, Tie Long (*with* Sun, Yuan Zhang; Ortega, Romeo) Editorial: Special issue on robust and nonlinear control of power systems.
— *see also* **Jiao, Xiaohong et al., 2005c:93038**
Shi, Song Jiao *see* **Huang, Chunqing**
Shiraishi, Fumihide (*with* Hatoh, Yuji; Irie, Toshinori) An efficient method for calculation of dynamic logarithmic gains in biochemical systems theory. (English summary)
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Somov, E. I. *see* **Matrosov, V. M., (2005c:93005)**
Song, Chong Hui (*with* Wang, Yong Fu; Chai, Tian You) Dual-mode predictive control scheme for nonlinear discrete systems by using fuzzy system. (Chinese. English and Chinese summaries)
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Stengel, Robert F. *see* **Wang, Qian**[7]
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Sun, Li Xia *see* **Bao, Sheng et al.**
Sun, Yuan Zhang *see* **Shen, Tie Long et al.**
Sun, Zheng Shun *see* **Zhou, Tong**[1] **et al., 2005k:93215**
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Tempo, Roberto (*with* Calafiore, Giuseppe; Dabbene, Fabrizio) ★ Randomized algorithms for analysis and control of uncertain systems. **2005m:93003**

Tesi, Alberto *see* **Bianchini, Gianni et al., 2005f:93058**
Tomioka, Ryota (*with* Kimura, Hidenori; Kobayashi, Tetsuya J.; Aihara, Kazuyuki) Multivariate analysis of noise in genetic regulatory networks. (English summary)
Tomizuka, Masayoshi *see* **Yao, Bin**
Tong, Shao Cheng *see* **Wang, Yong Fu et al.**
Topunov, M. V. On the convexity of the attainability set of a quasicommutative bilinear system. (Russian. Russian summary) **2005h:93003**
Turkay, Osman S. *see* **Orbak, Âli Yurdun et al., 2005g:70037**
Udwadia, Firdaus E. (*with* von Bremen, Hubertus F.; Kumar, Ravi; Hosseini, Mohamed) Time delayed control of structural systems. (English summary) **2005b:93075**
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Wang, Ling[1] *see* **Zhou, Tong[1] et al., 2005k:93215**
Wang, Ping Ping *see* **Zhao, Yan Bin et al.**
Wang, Qian[7] (*with* Stengel, Robert F.) Robust control of nonlinear systems with parametric uncertainty. (English summary)
Wang, Yong Fu (*with* Chai, Tian You; Tong, Shao Cheng) Robust adaptive fuzzy tracking control of uncertain nonlinear systems. (Chinese. English and Chinese summaries)
— *see also* **Song, Chong Hui et al.**
Wang, Yong Ji *see* **Qu, Shao Cheng**
Webber, Jonathan R. (*with* Gupta, Yash P.) Design of a discrete robust controller using a first-order model approximation. (English summary) **2005i:93045**
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Woodyatt, A. R. (*with* Freudenberg, J. S.; Middleton, Richard H.) An integral constraint for single input two output feedback systems. (English summary)
Wu, Ai Guo (*with* Duan, Guang Ren) Robust state feedback eigenstructure assignment. (Chinese. English and Chinese summaries)
Wu, Fen (*with* Soto, Marco) Extended anti-windup control schemes for LTI and LFT systems with actuator saturations. (English summary)
Xi, Yu Geng *see* **Ding, Bao Cang et al.**
Xie, Lihua *see* **Zhang, Huanshui et al.**
Xu, Jian-Xin (*with* Tan, Ying[1]) Robust optimal design and convergence properties analysis of iterative learning control approaches. (English summary)
Xu, Sheng Yuan (*with* Lam, James; Wang, Jian Liang; Yang, Guang-Hong) Non-fragile positive real control for uncertain linear neutral delay systems. (English summary) **2005b:93084**
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— *see also* **Dolgin, Yuri, 2005j:93021b**
Yang, Yansheng (*with* Zhou, Changjiu) Robust adaptive fuzzy tracking control for a class of perturbed strict-feedback nonlinear systems via small-gain approach. (English summary) **2005k:93122**
Yaniv, Oded Design of low-order controllers satisfying sensitivity constraints for unstructured uncertain plants. (English summary) **2005f:93068**
Yao, Bin (*with* Tomizuka, Masayoshi) Adaptive robust control of MIMO nonlinear systems in semi-strict feedback forms. (English summary)
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Zhang, David[1] *see* **Zhang, Huanshui et al.**
Zhang, Huanshui (*with* Zhang, David[1]; Xie, Lihua; Lin, Jun) Robust filtering under stochastic parametric uncertainties. (English summary)
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Zhang, Li Qian[2] (*with* Huang, Biao) Robust model predictive control of singular systems. (English summary) **2005c:93037**
Zhang, Ping[8] (*with* Ding, Steven Xianchun; Wang, Gui Zeng; Zhou, Dong Hua) Fault detection of linear discrete-time periodic systems. (English summary)
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Zhang, Xuefeng *see* **Zhu, Bao Yan et al.**
Zhang, Ying[4] *see* **Zhou, Jing et al., 2005d:93080**
Zhao, Yan Bin (*with* Wang, Ping Ping; Wang, Ben Li) Robust variable structure control laws for a class of mismatched uncertain linear systems. (Chinese. English and Chinese summaries)
Zhou, Changjiu *see* **Yang, Yansheng, 2005k:93122**
Zhou, Dong Hua *see* **Zhang, Ping[8] et al.**
Zhou, Jing (*with* Wen, Changyun; Zhang, Ying[4]) Adaptive backstepping control of a class of uncertain nonlinear systems with unknown backlash-like hysteresis. (English summary) **2005d:93080**
Zhou, Shao Sheng (*with* Feng, Gang[1]; Feng, Chun Bo) Robust control for a class of uncertain nonlinear systems: adaptive fuzzy approach based on backstepping. (English summary)
— (*with* Lam, James; Feng, Gang[1]) New characterization of positive realness and control of a class of uncertain polytopic discrete-time systems. (English summary) **2005k:93127**
Zhou, Tong[1] (*with* Wang, Ling[1]; Sun, Zheng Shun) Closed-loop model set validation under a stochastic framework. (English summary) **2005k:93215**
Zhu, Bao Yan (*with* Zhang, Qing Ling; Zhang, Xuefeng) Decentralized robust guaranteed cost control for uncertain T-S fuzzy interconnected systems with time delays. (English summary)

Items listed otherwise than by author
Lecture Notes in Control and Information Sciences *see* **Nebylov, A. V., 2005b:93005**

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Aliyu, M. D. S. An approach for solving the Hamilton-Jacobi-Isaacs equation (HJIE) in nonlinear $\mathscr{H}_\infty$ control. (English summary)
Altman, Eitan *see* **El Azouzi, Rachid et al., 2005k:93066**
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Anderson, Brian D. O. *see* **Su, Steven W. et al.** *and* **Lanzon, Alexander et al.**
Apkarian, Pierre (*with* Noll, Dominikus; Thevenet, Jean-Baptiste; Hoang Duong Tuan) A spectral quadratic-SDP method with applications to fixed-order H_2 and H_∞ synthesis. (English summary) **2005k:93064**
— *see also* **Pellanda, P. C. et al., 2005h:93052**
Assawinchaichote, Wudhichai (*with* Nguang, Sing Kiong) $\mathscr{H}_\infty$ filtering for fuzzy singularly perturbed systems with pole placement constraints: an LMI approach. (English summary) **2005a:93052**
Balandin, D. V. (*with* Kogan, M. M.) Two-sided estimates for the minimal robust H^∞-norm for uncertain control systems. (Russian. Russian summary) **2005g:93041**
— (*with* Kogan, M. M.) Computing the minimum suppression level for external perturbations in the problem of H^∞ robust output control. (Russian. Russian summary) **2005d:93047**
— (*with* Kogan, M. M.) Design of an optimal robust H^∞-control by convex optimization methods. (Russian. Russian summary) **2005h:93048**
— (*with* Kogan, M. M.) Linear matrix inequalities in the robust H^∞-output control problem. (Russian) **2005i:93032**
— (*with* Kogan, M. M.) Optimal damping of the vibrations of high-rise structures under seismic actions. (Russian. Russian summary)
Bi, Wei Ping (*with* Tong, Wei Wei; Chen, Yong Gang) Robust H_∞ adaptive control for uncertain nonlinear cascade systems. (Chinese. English and Chinese summaries)
Bin, Deng *see* **Wang, Jiang et al., 2005k:93073**
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Bobtsov, A. A. A robust control algorithm for tracking the reference signal. (Russian. Russian summary) **2005e:93043**
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Bovyrin, A. V. *see* **Brusin, V. A., 2005h:93049**
Boyarski, S. (*with* Shaked, U.) Discrete-time H_∞ and H_2 control with structured disturbances and probability-relaxed requirements. (English summary) **2005f:93045**
— (*with* Shaked, U.) Robust H_∞ control design for best mean performance over an uncertain-parameters box. (English summary) **2005k:93065**
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Brusin, V. A. (*with* Samokhin, D. Yu.) Solution of the H^∞-control problem under regular perturbations and nonlinearities. (Russian. Russian summary) **2005d:93048**
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Campos-Delgado, Daniel U. (*with* Zhou, Kemin) A parametric optimization approach to H_∞ and H_2 strong stabilization. (English summary)
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— *see also* **Sun, Xi Ming et al.** *and* **Xu, Sheng Yuan et al.**
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Chen, Yue Peng (*with* Zhang, Qing Ling; Zhai, Ding; Xu, Tian Qun) Reliable guaranteed cost control of descriptor systems. (Chinese. English and Chinese summaries)
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Chiaverini, Stefano (*with* Fusco, Giuseppe) Bandwidth vs. gains design of H_∞ tracking controllers for current-fed induction motors. (English summary)
Chu, Delin On the computation of the infimum in H_∞-optimization. (English summary)
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Chu, Yun-Chung (*with* Glover, Keith; Dowling, Ann P.) Control of combustion oscillations via $\mathscr{H}_\infty$ loop-shaping, μ-analysis and integral quadratic constraints. (English summary)
Collins, Gaemus (*with* McEneaney, William M.) Min-plus eigenvector methods for nonlinear H_∞ problems with active control. **2005d:93050**
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Feng, Gang[1] (*with* Lu, G. P.; Zhou, Shao Sheng) An approach to H_∞ controller synthesis of piecewise linear systems. (English summary) **2005d:93051**
— H_∞ controller synthesis of piecewise discrete time linear systems. (English summary) **2005d:93052**
— *see also* **Zhou, Shao Sheng, 2005i:93036**
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— (*with* Lam, James; Wang, Chang Hong[1]; Xu, Sheng Yuan) $\mathscr{H}_\infty$ model reduction for discrete time-delay systems: delay-independent and dependent approaches. (English summary) **2005a:93054**
— (*with* Wang, Chang Hong[1]) Robust H_∞ filtering for uncertain discrete-time state-delayed systems: a parameter-dependent Lyapunov approach. (English summary) **2005c:93035**
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— A chain-scattering matrix approach to the H^∞ output feedback control for state-delayed systems. (English summary) **2005f:93049**
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— *see also* **Mahmoud, Magdi S. et al., 2005g:93043; 2005h:93051** *and* **Shi, Peng et al., 2005i:93034**
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— (*with* Shi, Peng; Shi, Yan) H_∞ and robust control of the interconnected systems with Markovian jump parameters. (English summary) **2005m:93048**

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— *see also* **Ismail, Abdulla, 2005a:93055**; **2005a:93056** *and* **Shi, Peng et al., 2005i:93034**
Mammadov, Musa (*with* Orsi, Robert) H_∞ synthesis via a nonsmooth, nonconvex optimization approach. (English summary) **2005m:93049**
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— (*with* Chen, Juming; Lu, Qiang[1]; Yokoyama, Akihiko; Goto, Masuo) Coordinated nonlinear robust control of TCSC and excitation for multi-machine systems. (English summary)
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Seiler, Peter (*with* Sengupta, Raja) An H_∞ approach to networked control. (English summary) **2005k:93071**
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Shaked, U. *see* **Gershon, E. et al., 2005b:93057**; **2005f:93047**; **2005f:93048**; **Boyarski, S., 2005f:93045**; **2005k:93065**; **Yaesh, I., 2005h:93054** *and* **Fridman, Emilia et al., 2005j:93027**
Shao, Hui He *see* **Shen, Wei, 2005a:93059**
Shen, Wei (*with* Shao, Hui He) Design of the dual closed-loop flow rate controller based on H_∞ optimization theory for computer networks. (English summary) **2005a:93059**
Shi, Peng (*with* Boukas, E. K.) On H_∞ control design for singular continuous-time delay systems with parametric uncertainties. (English summary) **2005a:93060**
— (*with* Mahmoud, Magdi S.; Ismail, Abdulla) Robust $\mathscr{H}_\infty$ analysis and synthesis for jumping time-delay systems using transformation methods. (English summary) **2005i:93034**
— *see also* **Mahmoud, Magdi S. et al., 2005h:93051**; **2005m:93048** *and* **Nguang, Sing Kiong**
Shi, Yan *see* **Mahmoud, Magdi S. et al., 2005m:93048**
Shieh, Cheng-Shion Observer-based H_∞ controller for perturbed system with state and input delays. (English summary) **2005b:93060**
Shu, Huisheng (*with* Wei, Guoliang) H_∞ analysis of nonlinear stochastic time-delay systems. (English summary)
Shu, Wei Ren (*with* Zhang, Qing Ling) Robust and non-fragile H_∞ control for uncertain singular systems with time-delay in state. (Chinese. English and Chinese summaries)
Simões, A. M. *see* **Pellanda, P. C. et al., 2005h:93052**
Ştefan, Radu Disturbance attenuation in the chain-scattering formalism: a Popov function based approach. (English summary) **2005a:93061**
Su, Hong Ye *see* **Lu, Ren Quan et al.**
Su, Steven W. (*with* Anderson, Brian D. O.; Brinsmead, Thomas S.) Use of integrator in nonlinear H_∞ design for disturbance rejection. (English summary)
Sun, Wen An (*with* Zhao, Jun[2]) H_∞ robust control of uncertain switched linear systems based on LMIs. (Chinese. English and Chinese summaries)
Sun, Xi Ming (*with* Zhang, You; Qi, Li) Design of H_∞ robust reliable observer and controller for a linear system with uncertainty. (Chinese. English and Chinese summaries)
— (*with* Zhao, Jun[2]; Chen, Bing[2]) Robust H-infinity reliable control for a class of nonlinear uncertain neutral delay systems. (English summary)
Suplin, V. *see* **Fridman, Emilia et al., 2005j:93027**
Suyama, Koichi An internally stable realization of a finite-dimensional approximation of a delay element. (English summary) **2005b:93061**
Sze, Kam Yim *see* **Du, Haiping et al., 2005b:93054**
Sznaier, Mario (*with* Amishima, T.; Parrilo, Pablo A.; Tierno, J.) A convex approach to robust $\mathscr{H}_2$ performance analysis. (English summary) **2005k:93072**
Terra, Marco H. *see* **Ishihara, João Y. et al., 2005k:93067**
Thevenet, Jean-Baptiste *see* **Apkarian, Pierre et al., 2005k:93064**
Tian, Li Xin *see* **Lu, Dian Chen et al.**
Tierno, J. *see* **Sznaier, Mario et al., 2005k:93072**
Tong, Wei Wei *see* **Bi, Wei Ping et al.**
Tsai, Kuen-Yu (*with* Hindi, Haitham A.) DQIT: μ-synthesis without D-scale fitting. (English summary) **2005f:93055**
Tseng, Chung-Shi (*with* Chen, Bor-Sen) A mixed H_2/H_∞ adaptive tracking control for constrained non-holonomic systems. (English summary)
Uchida, Kenko (*with* Fujita, Masayuki[1]; Ikeda, Kojiro) Another look at finite horizon H^∞ control problems for systems with input delays. (English summary)
Verma, M. S. *see* **Al-Assadi, S. A. K. et al.**
Vũ Ngọc Phát Nonlinear H_∞ control in Hilbert spaces via Riccati operator equation. (English summary) **2005a:93062**
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Wang, Jiang (*with* Guo-Dong, Qiao; Bin, Deng) H_∞ variable universe adaptive fuzzy control for chaotic system. (English summary) **2005k:93073**
Wang, Jihong *see* **Zhong, Maiying et al., 2005b:93063**
Wang, Jin Hua[2] Asymptotic performance of H_∞ controller and existence of optimal controller. (Chinese. English and Chinese summaries)
Wang, Qiyi *see* **Xing, Wei[1] et al., (2005m:90002)**
Wang, Sheng-Guo (*with* Yeh, Hsiang; Roschke, P. N.) Robust active control for structural systems with structured uncertainties. (English summary) **2005h:93053**
Wang, Wei[5] *see* **Zhang, Huanshui et al.**
Wang, Wu (*with* Yang, Fu Wen) Robust and non-fragile H_∞ control for linear uncertain systems. (Chinese. English and Chinese summaries)
Wang, Yuan Gang *see* **Liu, Shi-Qian et al.**
Wang, Zhan Shan (*with* Zhang, Hua Guang; Wang, Zhi Liang) Robust capability of disturbance rejection for nonlinear systems satisfying the Lipschitz condition. (Chinese. English and Chinese summaries)
Wang, Zhi Liang *see* **Wang, Zhan Shan et al.**
Wang, Zi Dong[1] (*with* Ho, Daniel W. C.) Output feedback robust H_∞ control with D-stability and variance constraints: parametrization approach. (English summary) **2005m:93050**
Wei, Guoliang *see* **Shu, Huisheng**
Won, Sangchul *see* **Park, Juhyun[1] et al., 2005e:93050**
Wu, Fen (*with* Lu, Bei) On convexified robust control synthesis. (English summary)
Wu, Zhi Gang[1] (*with* Gao, Qiang[1]) Minimum H_∞ norm estimation of interval systems by an eigenvalue perturbation method. (Chinese. English and Chinese summaries)
Xie, Lihua *see* **Zhang, Huanshui et al.**
Xin, Xin Reduced-order controllers for the H_∞ control problem with unstable invariant zeros. (English summary) **2005m:93051**
Xing, Wei *see* **Li, Xiu Ying[1]**
Xing, Wei[1] (*with* Zhang, Qing Ling; Liu, Wan Quan; Wang, Qiyi) H_∞ control based on state observer for descriptor systems. (English summary) (*see* **2005m:90002**)
Xu, Hui Ling (*with* Zou, Yun; Xu, Sheng Yuan; Lam, James) Bounded real lemma and robust H_∞ control of 2-D singular Roesser models. (English summary) **2005i:93035**
Xu, Sheng Yuan (*with* Lam, James; Yang, Cheng Wu) Robust H_∞ control for uncertain singular systems with state delay. (English summary) **2005b:93062**
— (*with* Lam, James) On H_∞ filtering for a class of uncertain nonlinear neutral systems. (English summary) **2005a:93063**
— (*with* Lam, James; Chen, Bing[2]) Robust H_∞ control for uncertain fuzzy neutral delay systems. (English summary)
— *see also* **Gao, Huijun et al., 2005a:93054**; **2005e:93046**; **Zhou, Shao Sheng et al., 2005e:93054** *and* **Xu, Hui Ling et al., 2005i:93035**
Xu, Tian Qun *see* **Chen, Yue Peng et al.**
Xu, Xiao Ming *see* **Cai, Yun Ze et al.**
Xue, Ancheng (*with* Mei, Shengwei; Hu, Wei[4]; Zhou, Yuan) Robust H_∞ control of Hamiltonian system with uncertainty. (English summary) **2005a:93064**
Yaesh, I. (*with* Shaked, U.) Min-max Kalman filtering. (English summary) **2005h:93054**
— *see also* **Gershon, E. et al., 2005b:93057**; **2005f:93047** *and* **2005f:93048**
Yamamoto, Yutaka *see* **Kashima, Kenji, 2005m:93045**
Yan, Min Juan *see* **Lu, Dian Chen et al.**
Yang, Cheng Wu *see* **Xu, Sheng Yuan et al., 2005b:93062**
Yang, Fan[1] (*with* Zhang, Qing Ling; Yang, Jun) Dynamic output-feedback robust H_∞ control of neutral differential systems with parameter uncertainties. (Chinese. English and Chinese summaries)
— (*with* Zhang, Qing Ling) Robust dynamic output feedback H_∞ control of singular

systems with time-varying delays and nonlinear parameter uncertainty. (Chinese. English and Chinese summaries)

Yang, Fu Wen *see* **Wang, Wu**

Yang, Jun *see* **Yang, Fan[1] et al.**

Yeh, Hsiang *see* **Wang, Sheng-Guo et al., 2005h:93053**

Yokoyama, Akihiko *see* **Mei, Shengwei et al.**

Yoneyama, Jun Design of H_∞-control for fuzzy time-delay systems. (English summary)

Yu, Jen-te A new static output feedback approach to the suboptimal mixed H_2/H_∞ problem. (English summary) **2005d:93056**

Yuan, Xin (*with* Efe, Mehmet Önder; Özbay, Hitay) On delay-based linear models and robust control of cavity flows. (English summary) (*see* **2005d:93003**)

Yue, Dong (*with* Han, Qing-Long) Robust H_∞ filter design of uncertain descriptor systems with discrete and distributed delays. (English summary) **2005e:93052**

Zaheer-uddin, M. *see* **Al-Assadi, S. A. K. et al.**

Zhai, Ding *see* **Chen, Yue Peng et al.**

Zhai, Guisheng (*with* Lin, Hai[1]) Controller failure time analysis for symmetric $\mathscr{H}_\infty$ control systems. (English summary) **2005a:93065**

Zhang, David[1] *see* **Zhang, Huanshui et al.**

Zhang, Hua Guang *see* **Wang, Zhan Shan et al.**

Zhang, Huanshui (*with* Zhang, David[1]; Xie, Lihua) An innovation approach to H_∞ prediction for continuous-time systems with application to systems with delayed measurements. (English summary)

— (*with* Xie, Lihua; Wang, Wei[5]; Lu, Xiao[1]) An innovation approach to H_∞ fixed-lag smoothing for continuous time-varying systems. (English summary)

Zhang, Li Qian[2] (*with* Lam, James) On H_2 model reduction of bilinear systems. (English summary)

Zhang, Qing Ling *see* **Dong, Xin Zhuang, 2005e:93045**; **Chen, Yue Peng et al.**; **Yang, Fan[1] et al.**; **Xing, Wei[1] et al.**, (**2005m:90002**) *and* **Shu, Wei Ren**

Zhang, Shu Qing[2] *see* **Dou, Chun Xia**

Zhang, Si Ying *see* **Zhang, You et al., 2005e:93053**

Zhang, Wei Dong[1] *see* **Cai, Yun Ze et al.**

Zhang, Wei Hai Robust H_∞ control of stochastic uncertain systems. (Chinese. English and Chinese summaries)

— *see also* **Feng, Jun'e et al., 2005i:93033**

Zhang, You (*with* Jing, Yuan Wei; Zhang, Si Ying) Observer-based H_∞ control for a class of linear neutral delay systems. (Chinese. English and Chinese summaries)

— (*with* Qi, Li; Jing, Yuan Wei; Zhang, Si Ying) Delay-dependent H_∞ control of linear neutral delay systems. (Chinese. English and Chinese summaries) **2005e:93053**

— *see also* **Sun, Xi Ming et al.**

Zhang, Zheng Di *see* **Lu, Dian Chen et al.**

Zhao, Jun[2] *see* **Sun, Xi Ming et al.** *and* **Sun, Wen An**

Zhong, Maiying (*with* Jia, Lei; Wang, Jihong) An LMI approach to H_∞ control of networked control systems. (English summary) **2005b:93063**

Zhong, Qing-Chang H_∞ control of dead-time systems based on a transformation. (English summary)

— Frequency domain solution to delay-type Nehari problem. (English summary)

— Correction to: "Frequency domain solution to delay-type Nehari problem [Automatica J. IFAC **39** (2003), no. 3, 499–508; MR2138091].

— On distributed delay in linear control laws. I. Discrete-delay implementations. (English summary) **2005g:93045**

Zhong, Wan Xie The impulse influence function for de-centralized control. (English summary)

Zhou, Chuan[1] *see* **Zhu, Zhang Qing et al.**

Zhou, Jun[2] (*with* Hagiwara, Tomomichi) H_2 and H_∞ norm computations of linear continuous-time periodic systems via the skew analysis of frequency response operators. (English summary)

Zhou, Kemin *see* **Campos-Delgado, Daniel U.**

Zhou, Shao Sheng (*with* Feng, Gang[1]) H_∞ almost disturbance decoupling for a class of linear systems: a constructive approach. (English summary) **2005i:93036**

— (*with* Lam, James; Xu, Sheng Yuan) Robust H_∞ control for discrete-time polytopic uncertain systems with linear fractional vertices. (English summary) **2005e:93054**

— *see also* **Feng, Gang[1] et al., 2005d:93051**

Zhou, Yuan *see* **Xue, Ancheng et al., 2005a:93064**

Zhu, Zhang Qing (*with* Zhou, Chuan[1]; Hu, Wei Li) Design of robust H_2/H_∞ states observer for networked control systems with short time-delay. (Chinese. English and Chinese summaries)

Zou, Yun *see* **Xu, Hui Ling et al., 2005i:93035**

Items with secondary classifications in 93B36

Acho Zuppa, Leonardo *see* **Aguilar, L. T. et al., 2005k:93142**

Agafonov, P. A. (*with* Chestnov, V. N.) Simultaneous assurance of input and output stability margins for a multivariate system, based on the H_∞-approach. (Russian. Russian summary) **2005f:93153**

Aguilar, L. T. (*with* Orlov, Yuri V.; Acho Zuppa, Leonardo) Nonlinear $\mathscr{H}_\infty$-control of nonsmooth time-varying systems with application to friction mechanical manipulators. (English summary) **2005k:93142**

Ahn, Seong Joon *see* **Kim, Jong Hae et al.**

Ahn, Seungjoon *see* **Kim, Jong Hae et al.**

Al-Baiyat, Samir A. Design of a robust SVC damping controller using nonlinear H_∞ technique. (English and Arabic summaries)

Al-Lawama, A. *see* **Larin, Vladimir B. et al., 2005j:93067**

Allen, Jeffery C. ★ H^∞ engineering and amplifier optimization. **2005f:94173**

— (*with* Healy, Dennis M., Jr.) Hyperbolic geometry, Nehari's theorem, electric circuits, and analog signal processing. (English summary) **2005i:94025**

Al-Muthairi, Naser F. *see* **Boukas, E. K., 2005j:93071**

Angelova, Vera A. (*with* Gu, Da-Wei; Konstantinov, Mikhail M.; Petkov, Petko Khr.) Perturbation bounds for general coupled matrix Riccati equations. (English and Bulgarian summaries) (*see* **2005f:00011**)

Assawinchaichote, Wudhichai (*with* Nguang, Sing Kiong) Robust $\mathscr{H}_\infty$ fuzzy control design for time delay nonlinear Markovian jump systems: an LMI approach. (English summary) **2005g:93070**

Ataşlar, Banu *see* **Quet, Pierre-François et al., 2005k:93140**

Balandin, D. V. (*with* Kogan, M. M.) Optimal damping of perturbations in uncertain control systems. (Russian. Russian summary) **2005i:93075**

— (*with* Kogan, M. M.; Fedyukov, A. A.) Optimal damping of oscillations of a pendulum under uncertain external and parametric perturbations. (Russian. Russian summary) **2005c:34070**

— (*with* Kogan, M. M.) Synthesis of controllers on the basis of the solution of linear matrix inequalities and an algorithm for finding mutually inverse matrices. (Russian. Russian summary) **2005k:93076**

Barajas-Ramírez, Juan Gonzalo (*with* Chen, Guanrong; Shieh, Leang-San) Fuzzy chaos synchronization via sampled driving signals. (English summary) **2005f:93096**

Barbosa, Karina A. (*with* de Souza, Carlos E.; Trofino-Neto, Alexandre) Robust $\mathscr{H}_2$ filtering for uncertain linear systems: LMI based methods with parametric Lyapunov functions. (English summary) **2005k:93222**

Bar-Kana, Izhak Comments on: "Design of strictly positive real systems using constant output feedback" [IEEE Trans. Automat. Control **44** (1999), no. 3, 569–573; MR1680143 (2000a:93048)] by C.-H. Huang, P. A. Ioannou, J. Maroulas and M. G. Safonov. (English summary) **2005f:93064**

Ben Jemaa, Lamia (*with* Davison, Edward Joseph) Limiting performance of optimal linear discrete filters. (English summary)

Bi, Wei Ping (*with* Mu, Xiao Wu; Yu, Ji Min) Robust adaptive control of a class of nonlinear uncertain systems. (English summary) **2005i:93053**

Boukas, E. K. (*with* Al-Muthairi, Naser F.) $\mathscr{H}_\infty$ constant gain state feedback stabilization of stochastic hybrid systems with Wiener process. **2005j:93071**

Budman, Hector M. *see* **Gao, Jianying, 2005f:93104**

Calafiore, Giuseppe *see* **Tempo, Roberto et al., 2005m:93003**

Cantoni, Michael *see* **Lanzon, Alexander, 2005k:93085**

Cao, Guang Yi *see* **Wang, Zhen Lei et al.**

Chen, Bing[2] Reliable fuzzy H_∞ control of uncertain systems with time-varying delay. (English summary) **2005b:93089**

Chen, Guanrong *see* **Barajas-Ramírez, Juan Gonzalo et al., 2005f:93096**

Chen, Tong Wen *see* **Xu, Sheng Yuan et al., 2005f:93168** *and* **2005k:93235**

Chen, Wu Hua (*with* Guan, Zhi Hong; Yu, Pei[1]) Delay-dependent stability and H_∞ control of uncertain discrete-time Markovian jump systems with mode-dependent time delays. (English summary) **2005b:93112**

Chen, Xinkai *see* **Michel, Anthony N. et al., 2005c:93048**

Chestnov, V. N. *see* **Agafonov, P. A., 2005f:93153**

Chu, Delin On the numerical computation of the optimal H_2-norm and its associated fixed modes in H_2-optimization. (English summary) **2005f:93056**

Chu, Eric King-wah (*with* Fan, Hung-Yuan; Lin, Wen Wei) A structure-preserving doubling algorithm for continuous-time algebraic Riccati equations. (English summary) **2005h:93056**

Colaneri, P. Periodic control systems: theoretical aspects. (English summary) **2005j:93041**

Curtain, Ruth F. *see* **Opmeer, Mark R., 2005m:49061**

Da, Ke Ning *see* **Zhu, Bao Yan et al.**

Dabbene, Fabrizio *see* **Tempo, Roberto et al., 2005m:93003**

D'Andrea, Raffaello *see* **Recht, Benjamin, 2005c:93022**

Date, Paresh (*with* Vinnicombe, Glenn) Algorithms for worst case identification in $\mathscr{H}_\infty$ and in the ν-gap metric. (English summary)

Davison, Edward Joseph *see* **Ben Jemaa, Lamia**

Ding, Steven Xianchun *see* **Zhong, Maiying et al.**

Dong, Yuewu (*with* Sun, Ji-tao) Robust stochastic stability and H_∞ performance for a class of uncertain impulsive stochastic systems. (English summary) **2005m:93158**

Duan, Zhi-Sheng (*with* Huang, Lin[1]; Wang, Long[1]; Wang, Jin-Zhi) Some applications of small gain theorem to interconnected systems. (English summary) **2005a:93007**

Egas, R. G. *see* **Geromel, Jose C. et al., 2005d:93088** *and* **2005i:93024**

Fan, Hung-Yuan *see* **Chu, Eric King-wah et al., 2005h:93056**

Fedyukov, A. A. *see* **Balandin, D. V. et al., 2005c:34070**

Freeman, Randy A. *see* **Ito, Hiroshi[1], 2005f:93067**

Fujimori, Atsushi Optimization of static output feedback using substitutive LMI formulation. (English summary) **2005b:93133**

Gao, Huijun (*with* Lam, James; Wang, Chang Hong[1]; Xu, Sheng Yuan) Robust H_∞ filtering for 2D stochastic systems. (English summary) **2005i:93080**

— (*with* Wang, Chang Hong[1]) A delay-dependent approach to robust H_∞ filtering for uncertain discrete-time state-delayed systems. (English summary) **2005a:93093**

— (*with* Lam, James; Wang, Chang Hong[1]) Robust $\mathscr{H}_\infty$ filtering for discrete stochastic time-delay systems with nonlinear disturbances. (English summary) **2005j:93076**

Gao, Jianying (*with* Budman, Hector M.) Reducing conservatism in the design of a robust gain-scheduled controller for non-linear chemical processes. (English summary) **2005f:93104**

Gao, Mei Jing *see* **Wu, Zhong Qiang et al.**

(Garulli, Andrea) *see* **Positive polynomials in control, 2005i:93005**

Geromel, Jose C. (*with* Kawaoka, F. R. R.; Egas, R. G.) Model reduction of discrete time systems through linear matrix inequalities. (English summary) **2005d:93088**

— (*with* Egas, R. G.; Kawaoka, F. R. R.) H_∞ model reduction with application to flexible systems. (English summary) **2005i:93024**

Gu, Da-Wei *see* **Angelova, Vera A. et al., (2005f:00011)**

Guan, Zhi Hong *see* **Chen, Wu Hua et al., 2005b:93112**

He, Kezhong *see* **Sun, Fu-Chun et al., 2005m:93154**

Healy, Dennis M., Jr. *see* **Allen, Jeffery C., 2005i:94025**

(Henrion, Didier) *see* **Positive polynomials in control, 2005i:93005**

(Huang, C. H.) *see* **Bar-Kana, Izhak, 2005f:93064**

Huang, Lin[1] *see* **Duan, Zhi-Sheng et al., 2005a:93007**

Hung, Y. S. (*with* Yang, Fu Wen) Robust H_∞ filtering with error variance constraints for discrete time-varying systems with uncertainty. (English summary)

Ichikawa, Akira *see* **Katayama, Hitoshi, 2005f:93099**

İftar, Altuğ *see* **Quet, Pierre-François et al., 2005k:93140**

(Ioannou, Petros A.) *see* **Bar-Kana, Izhak, 2005f:93064**

Ito, Hiroshi[1] (*with* Freeman, Randy A.) Uniting local and global controllers for uncertain

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Jung, Hsin *see* **Li, Yen-Fang et al.**
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Kang, Taesam *see* **Quet, Pierre-François et al., 2005k:93140**
Katayama, Hitoshi (*with* Ichikawa, Akira) H_∞ control for sampled-data nonlinear systems described by Takagi-Sugeno fuzzy systems. (English summary) **2005f:93099**
Kawaoka, F. R. R. *see* **Geromel, Jose C. et al., 2005d:93088** *and* **2005i:93024**
Kim, Jong Hae (*with* Ahn, Seong Joon; Ahn, Seungjoon) Guaranteed cost and H_∞ filtering for discrete-time polytopic uncertain systems with time delay. (English summary)
Kogan, M. M. *see* **Balandin, D. V. et al., 2005c:34070**; **2005i:93075** *and* **2005k:93076**
Konstantinov, Mikhail M. *see* **Angelova, Vera A. et al., (2005f:00011)**
Kwon, Wook Hyun *see* **Lee, Kwan Ho et al., 2005g:93051**
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Lanzon, Alexander (*with* Cantoni, Michael) On the formulation and solution of robust performance problems. (English summary) **2005k:93085**
Larin, Vladimir B. On the design of a robust controller for a periodic controlled system. (Russian. English, Russian and Ukrainian summaries) **2005h:93063**
— (*with* Al-Lawama, A.; Tunik, A. A.) Exogenous disturbance compensation with static output feedback. (English summary) **2005j:93067**
Lee, Joon Hwa *see* **Lee, Kwan Ho et al., 2005g:93051**
Lee, Kwan Ho (*with* Lee, Joon Hwa; Kwon, Wook Hyun) A nonlinear minimization approach to multiobjective and structured controls for discrete-time systems. (English summary) **2005g:93051**
Li, Jie *see* **Wu, Zhong Qiang et al.**
Li, Yen-Fang (*with* Yung, Chee-Fai; Jung, Hsin) On the design of a reduced-order H^∞ controller for nonlinear sampled-data systems. (English summary)
Lin, Min-Long *see* **Lo, Ji-Chang, 2005a:93090**
Lin, Wen Wei *see* **Chu, Eric King-wah et al., 2005h:93056**
Lin, Zhiping *see* **Xu, Sheng Yuan et al., 2005m:93155**
Liu, Fei[1] Robust L_2-L_∞ filtering for uncertain jump systems. (Chinese. English and Chinese summaries)
Liu, Guo Rong (*with* Luo, Yi Ping; Wan, Bai Wu) H_2/H_∞ fuzzy output feedback control for nonlinear MIMO systems. (Chinese. English and Chinese summaries)
Liu, Hua Ping[2] *see* **Sun, Fu-Chun et al., 2005m:93154**
Liu, Wan Quan *see* **Wang, Jing**[12] **et al., 2005g:93022**
Liu, Xiao Dong[1] (*with* Zhang, Qing Ling) New approaches to H_∞ controller designs based on fuzzy observers for T-S fuzzy systems via LMI. (English summary)
Liu, Xin Zhi *see* **Xu, Hong Lei et al., 2005k:93208**
Lo, Ji-Chang (*with* Lin, Min-Long) Robust H^∞ nonlinear modeling and control via uncertain fuzzy systems. (English summary) **2005a:93090**
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Luo, Yi Ping *see* **Liu, Guo Rong et al.**
Mackenroth, Uwe ★ Robust control systems. **2005c:93002**
Mahmoud, Magdi S. ★ Resilient control of uncertain dynamical systems. **2005b:93004**
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Mazzaro, María Cecilia *see* **Sznaier, Mario et al., 2005i:93089**
Michel, Anthony N. (*with* Zhai, Guisheng; Chen, Xinkai; Sun, Ye) $\mathscr{L}_2$ gain analysis of switched symmetric systems with time delays. (English summary) **2005c:93048**
Mu, Xiao Wu *see* **Bi, Wei Ping et al., 2005i:93053**
Muradore, Riccardo (*with* Picci, Giorgio) Mixed $\mathscr{H}_2/\mathscr{H}_\infty$ control: the discrete-time case. (English summary) **2005f:93106**
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Nguang, Sing Kiong *see* **Assawinchaichote, Wudhichai, 2005g:93070**
Opmeer, Mark R. (*with* Curtain, Ruth F.) New Riccati equations for well-posed linear systems. (English summary) **2005m:49061**
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Özbay, Hitay *see* **Quet, Pierre-François et al., 2005a:90026**; **2005k:93140** *and* **Yan, Peng**[1], **(2005g:93003)**
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Petkov, Petko Khr. *see* **Angelova, Vera A. et al., (2005f:00011)**
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Quet, Pierre-François (*with* Ataşlar, Banu; İftar, Altuğ; Özbay, Hitay; Kalyanaraman, Shivkumar; Kang, Taesam) Rate-based flow controllers for communication networks in the presence of uncertain time-varying multiple time-delays. (English summary) **2005k:93140**
— (*with* Özbay, Hitay) On the design of AQM supporting TCP flows using robust control theory. (English summary) **2005a:90026**
Recht, Benjamin (*with* D'Andrea, Raffaello) Distributed control of systems over discrete groups. (English summary) **2005c:93022**
Reinschke, Johannes (*with* Smith, Malcolm C.) Designing robustly stabilising controllers for LTI spatially distributed systems using coprime factor synthesis. (English summary) **2005k:93206**
Rubio, Francisco R. *see* **Venegas, Carlos Vivas, (2005b:93007)**
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Smith, Malcolm C. *see* **Reinschke, Johannes, 2005k:93206**
Song, Zheng Yi (*with* Zhao, Jun[2]) A sufficient condition for stability with H_∞ performance for linear discrete-time switched systems. (Chinese. English and Chinese summaries)
de Souza, Carlos E. *see* **Barbosa, Karina A. et al., 2005k:93222**
Suchomski, Piotr A J-lossless coprime factorisation approach to H_∞ control in delta domain. (English summary)
Sun, Fu-Chun (*with* Liu, Hua Ping[2]; He, Kezhong; Sun, Zeng Qi) Reduced-order H_∞ filtering for linear systems with Markovian jump parameters. (English summary) **2005m:93154**
Sun, Ji-tao *see* **Dong, Yuewu, 2005m:93158**
Sun, Kunpeng (*with* Packard, Andrew) Robust H_2 and H_∞ filters for uncertain LFT systems. (English summary) **2005k:93226**
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Sun, Zeng Qi *see* **Sun, Fu-Chun et al., 2005m:93154**
Sznaier, Mario (*with* Lagoa, Constantino M.; Mazzaro, María Cecilia) An algorithm for sampling subsets of $\mathscr{H}_\infty$ with applications to risk-adjusted performance analysis and model (in)validation. (English summary) **2005i:93089**
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Venegas, Carlos Vivas (*with* Rubio, Francisco R.) Improving the performance of orbitally-stabilizing controls for the Furuta pendulum. (English summary) (*see* **2005b:93007**)
(Vidyasagar, M.) *see* **Tempo, Roberto et al., 2005m:93003**
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Wang, Haibo *see* **Zhong, Maiying et al.**
Wang, Jin-Zhi *see* **Duan, Zhi-Sheng et al., 2005a:93007**
Wang, Jing[12] (*with* Liu, Wan Quan; Zhang, Qing Ling; Xin, Xin) $\mathscr{H}_\infty$ suboptimal model reduction for singular systems. (English summary) **2005g:93022**
— (*with* Zhang, Qing Ling; Liu, Wan Quan) A criterion for finite fixed modes in singular symmetric systems. (Chinese. English and Chinese summaries)
Wang, Long[1] *see* **Duan, Zhi-Sheng et al., 2005a:93007**
Wang, Zai Hua Robust Hurwitz stability of a class of complex polynomials arising from H_∞ control theory. (English summary) **2005d:93125**
Wang, Zhen Lei (*with* Cao, Guang Yi; Zhu, Xin Jian) Fuzzy-neural network adaptive controller for a nonlinear multivariable system. (Chinese. English and Chinese summaries)
Wu, Zhong Qiang (*with* Li, Jie; Gao, Mei Jing) Guaranteed cost control for uncertain discrete fuzzy systems with delays. (Chinese. English and Chinese summaries)
Xie, Lihua (*with* Lu, Lilei; Zhang, David[1]; Zhang, Huanshui) Improved robust H_2 and H_∞ filtering for uncertain discrete-time systems. (English summary)
Xin, Xin *see* **Wang, Jing**[12] **et al., 2005g:93022**
Xu, Hong Lei (*with* Liu, Xin Zhi; Teo, Kok Lay) Robust H_∞ stabilisation with definite attenuance of an uncertain impulsive switched system. (English summary) **2005k:93208**
Xu, Sheng Yuan (*with* Chen, Tong Wen; Lam, James) Robust H_∞ filtering for a class of nonlinear discrete-time Markovian jump systems. (English summary) **2005f:93168**
— (*with* Lam, James; Zou, Yun; Lin, Zhiping; Paszke, Wojciech) Robust H_∞ filtering for uncertain 2-D continuous systems. (English summary) **2005m:93155**
— (*with* Chen, Tong Wen) Robust H_∞ control for uncertain discrete-time stochastic bilinear systems with Markovian switching. (English summary) **2005k:93235**
— *see also* **Gao, Huijun et al., 2005i:93080**
Yan, Peng[1] (*with* Özbay, Hitay) Robust controller design for AQM and $\mathscr{H}^\infty$-performance analysis. (*see* **2005g:93003**)
Yang, Dong Mei (*with* Zhang, Qing Ling; Yao, Bo; Jing, Hai Ying) Hamiltonian matrix and stabilizing solutions of an H_2 algebraic Riccati equation for descriptor systems. (Chinese. English and Chinese summaries) **2005i:93073**
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Yoon, Myung-Gon (*with* Ugrinovskiĭ, V. A.; Petersen, Ian R.) Robust finite horizon minimax filtering for discrete-time stochastic uncertain systems. (English summary) **2005c:93101**
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Yu, Wen-Shyong H_∞ tracking-based adaptive fuzzy-neural control for MIMO uncertain robotic systems with time delays. (English summary) **2005b:93094**
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Zhang, Huanshui *see* **Xie, Lihua et al.**
Zhang, Qing Ling *see* **Wang, Jing**[12] **et al., 2005g:93022**; **Yang, Dong Mei et al., 2005i:93073**; **Zhu, Bao Yan et al.** *and* **Liu, Xiao Dong**[1]
Zhao, Jun[2] *see* **Song, Zheng Yi**
Zhong, Maiying (*with* Ding, Steven Xianchun; Lam, James; Wang, Haibo) An LMI approach to design robust fault detection filter for uncertain LTI systems. (English summary)
Zhu, Bao Yan (*with* Zhang, Qing Ling; Da, Ke Ning) State feedback robust H_∞ control for T-S fuzzy descriptor systems. (Chinese. English and Chinese summaries)
Zhu, Xin Jian *see* **Wang, Zhen Lei et al.**
Zou, Yun *see* **Xu, Sheng Yuan et al., 2005m:93155**

Items listed otherwise than by author

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Arunyants, G. G. (*with* Rutkovskiĭ, A. L.; Salikhov, Z. G.; Stolbovskiĭ, D. N.) On a method for increasing the efficiency of the computation of the dynamic characteristics of control systems. (Russian. Russian summary)
Barhen, Jacob (*with* Protopopescu, Vladimir A.; Reister, David B.) Consistent uncertainty reduction in modeling nonlinear systems. (English summary) **2005h:93055**
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Busvelle, Eric (*with* Gauthier, Jean Paul) Observation and identification tools for nonlinear systems: application to a fluid catalytic cracker. (English summary)
Cannon, Mark (*with* Kouvaritakis, Basil; Deshmukh, Venkatesh) Enlargement of polytopic terminal region in NMPC by interpolation and partial invariance. (English summary) **2005m:93052**
— *see also* **Kouvaritakis, Basil et al.**
Cao, Yong-Yan (*with* Xue, Anke) Comments on: "Quasi-min-max MPC algorithms for LPV systems" [Automatica J. IFAC **36** (2000), no. 4, 527–540; MR1828899 (2002a:93052)] by Y. Lu and Y. Arkun. (English summary)
Castillo, Pedro *see* **Lozano Leal, Rogelio et al.**
Chen, Qingwei *see* **Guo, Jian[1] et al., (2005i:42002)**
Chu, Delin On the numerical computation of the optimal H_2-norm and its associated fixed modes in H_2-optimization. (English summary) **2005f:93056**
Chu, Eric King-wah (*with* Fan, Hung-Yuan; Lin, Wen Wei) A structure-preserving doubling algorithm for continuous-time algebraic Riccati equations. (English summary) **2005h:93056**
Cuzzola, Francesco Alessandro (*with* Geromel, Jose C.; Morari, Manfred) An improved approach for constrained robust model predictive control. (English summary)
Dabbene, Fabrizio (*with* Gay, Paolo; Polyak, Boris Teodorovich) Recursive algorithms for inner ellipsoidal approximation of convex polytopes. (English summary)
Date, Paresh (*with* Vinnicombe, Glenn) Algorithms for worst case identification in $\mathscr{H}_\infty$ and in the ν-gap metric. (English summary)
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Deshmukh, Venkatesh *see* **Cannon, Mark et al., 2005m:93052**
Diehl, Moritz (*with* Bock, Hans Georg; Schlöder, Johannes P.) Newton-type methods for the approximate solution of nonlinear programming problems in real-time. (English summary) **2005e:93055**
Dzul, Alejandro *see* **Lozano Leal, Rogelio et al.**
Efe, Mehmet Önder (*with* Özbay, Hitay) Low dimensional modelling and Dirichlét boundary controller design for Burgers equation. (English summary) **2005e:93056**
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Geromel, Jose C. *see* **Cuzzola, Francesco Alessandro et al.**
Goncharov, V. I. (*with* Barkovsky, A.; Blinova, N.; Datsko, O.) Multi-loop linear control systems design. (English summary) **2005b:93064**
Guo, Jian[1] (*with* Chen, Qingwei; Hu, Wei Li; Xu, Shuyun) Nonlinear generalized predictive control based on inverse system using wavelet networks. (English summary) (*see* **2005i:42002**)
Halim, Dunant *see* **Moheimani, S. O. Reza**
Han, Youngmo A robust algorithm for model-following control of under-actuated systems, and its application to a non-holonomic robot and an aircraft. (English summary)
Heath, William P. *see* **Wills, Adrian G.**
Hu, Wei Li *see* **Guo, Jian[1] et al., (2005i:42002)**
Hu, Yi Zheng (*with* Liu, Fa Wang) Numerical methods for a fractional-order control system. (Chinese. English and Chinese summaries)
Ibeas, Asier *see* **Bilbao-Guillerna, A. et al.**
Ikhouane, F. *see* **Mañosa, V. et al.**
Jarvis-Wloszek, Zachary (*with* Feeley, Ryan; Tan, Weehong; Sun, Kunpeng; Packard, Andrew) Control applications of sum of squares programming. **2005k:93074**
Kouvaritakis, Basil (*with* Cannon, Mark; Rossiter, J. A.) Who needs QP for linear MPC anyway? (English summary)
— *see also* **Cannon, Mark et al., 2005m:93052**
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Matov, V. I. (*with* Osipov, L. A.) An approximating method for the numerical solution of control problems. (Russian. Russian summary)
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Moheimani, S. O. Reza (*with* Halim, Dunant) A convex optimization approach to the mode acceleration problem. (English summary)
Morari, Manfred *see* **Cuzzola, Francesco Alessandro et al.**
Mošna, Jiří (*with* Melichar, Jiří; Pešek, Pavel) Constrained non-smooth optimization in dead-beat control of linear servosystems. (English summary) **2005h:93057**
Niculescu, Silviu-Iulian On delay robustness analysis of a simple control algorithm in high-speed networks. (English summary)
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Parrilo, Pablo A. Exploiting algebraic structure in sum of squares programs. (English summary) **2005i:93038**
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Varga, Andras (*with* Van Dooren, Paul) Computing the zeros of periodic descriptor systems. (English summary) **2005a:93067**
Vinnicombe, Glenn *see* **Date, Paresh**
Wang, Guo Rong[1] (*with* Zheng, Bing) Leverrier's algorithm for m-D system. (English summary) **2005m:93053**
Wills, Adrian G. (*with* Heath, William P.) Barrier function based model predictive control. (English summary)
Wu, Fen (*with* Prajna, Stephen) SOS-based solution approach to polynomial LPV system analysis and synthesis problems. (English summary) **2005m:93054**
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Yfoulis, C. A. (*with* Shorten, Robert N.) A numerical technique for the stability analysis of linear switched systems. (English summary) **2005f:93057**
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Items with secondary classifications in 93B40

Abdel-Naby, Ahmed *see* **El-Tawil, Magdy A. et al., 2005d:65129**
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Aguiar, A. Pedro (*with* Hespanha, João P.; Kokotović, Petar V.) Path-following for nonminimum phase systems removes performance limitations. (English summary)
Alamir, Mazen New path-generation based receding-horizon formulation for constrained stabilization of nonlinear systems. (English summary)
Albu, Felix *see* **Bouchard, Martin**
Aliyu, M. D. S. A transformation approach for solving the Hamilton-Jacobi-Bellman equation in $\mathscr{H}_2$ deterministic and stochastic optimal control of affine nonlinear systems. (English summary)
Amishima, T. *see* **Sznaier, Mario et al., 2005k:93072**
Anders, Jonathan W. (*with* Franchek, Matthew A.) An instrumental variable approach to non-linear model-based adaptive control of engine speed. (English summary)
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Bahnasawi, Ahmed A. *see* **El-Tawil, Magdy A. et al., 2005d:65129**
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Balakrishnan, V. Ragu *see* **Vandenberghe, Lieven et al., 2005m:90080**
Bányász, Csilla *see* **Keviczky, László**
Baras, John S. *see* **Zhang, Chang et al.**
Barsegyan, V. R. The problem of the optimal reconstruction of the state of systems with distributed parameters with incomplete measurement errors. (Russian. Russian and Armenian summaries)
Baturin, V. A. *see* **Goncharova, E. V. et al., (2005g:00019)**
Bloemen, Hayco H. J. (*with* van den Boom, Ton J. J.; Verbruggen, Henk B.) Optimizing the end-point state-weighting matrix in model-based predictive control. (English summary)
Bobtsov, A. A. A robust control algorithm for tracking the reference signal. (Russian. Russian summary) **2005e:93043**

Bock, Hans Georg *see* **Körkel, Stefan et al., 2005d:49050**

Bodson, Marc Rejection of periodic disturbances of unknown and time-varying frequency. (English summary)

Bogdanov, Andrey Yu. On generalization of second order optimization algorithms via direct Lyapunov method. (English summary) (*see* **2005m:00008**)

van den Boom, Ton J. J. *see* **Bloemen, Hayco H. J. et al.**

Borrelli, Francesco *see* **Grieder, Pascal et al.**

Bouchard, Martin (*with* Albu, Felix) The Gauss-Seidel fast affine projection algorithm for multichannel active noise control and sound reproduction systems. (English summary)

Boyarski, S. (*with* Shaked, U.) Robust H_∞ control design for best mean performance over an uncertain-parameters box. (English summary) **2005k:93065**

Bulychev, Yu. G. (*with* Burlaĭ, I. V.) A decomposition approach to the estimation problem. (Russian. Russian summary) **2005a:93044**

Burlaĭ, I. V. *see* **Bulychev, Yu. G., 2005a:93044**

Cai, Zi Xing (*with* Gong, Tao) Advances in research on immune algorithms. (Chinese. English and Chinese summaries)

Campbell, S. L. (*with* Horton, K. G.; Nikoukhah, Ramine) Auxiliary signal design for rapid multi-model identification using optimization. (English summary) **2005k:93228**

Cao, Yong-Yan *see* **Hu, Li-Sheng et al., 2005b:93110**

Chan, Tony F. C. *see* **Heimsund, Bjørn-Ove et al., 2005a:93045**

Chen, Sheng[2] *see* **Whidborne, James F. et al.**

Chen, Tong Wen *see* **Ding, Feng[2], 2005i:65045**

Chesi, Graziano (*with* Garulli, Andrea; Tesi, Alberto; Vicino, Antonio) Homogeneous Lyapunov functions for systems with structured uncertainties. (English summary)

Choi, Han Ho (*with* Kuc, Tae-Yong) Lower matrix bounds for the continuous algebraic Riccati and Lyapunov matrix equations. (English summary) **2005k:93095**

Chryssochoos, I. *see* **Langson, W. et al.**

Chu, Delin (*with* Malabre, Michel) Numerically reliable design for proportional and derivative state-feedback decoupling controller. (English summary)

Chu, Eric King-wah (*with* Fan, Hung-Yuan; Lin, Wen Wei; Wang, Chern Shuh) Structure-preserving algorithms for periodic discrete-time algebraic Riccati equations. (English summary) **2005d:93083**

Condon, M. (*with* Ivanov, Rossen I.) Empirical balanced truncation of nonlinear systems. (English summary) **2005m:93009**

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De Nicolao, Giuseppe (*with* Ferrari-Trecate, Giancarlo) Regularization networks for inverse problems: a state-space approach. (English summary)

Díaz Díaz, Jesús Ildefonso (*with* Ramos, Á. M.) Numerical experiments regarding the distributed control of semilinear parabolic problems. (English summary) **2005h:93012**

Ding, Feng[2] (*with* Chen, Tong Wen) Iterative least-squares solutions of coupled Sylvester matrix equations. (English summary) **2005i:65045**

Ding, Steven Xianchun *see* **Zhong, Maiying et al.**

Donchev, Tzanko D. Euler approximation of nonconvex discontinuous differential inclusions. (English summary) **2005b:34027**

Dullerud, Geir E. *see* **Farhood, Mazen, 2005d:93085**

Dylevskii, A. V. (*with* Lozgachev, G. I.) Synthesis of control systems with a specified characteristic polynomial. (English summary) **2005f:93060**

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Elaiw, A. M. Stabilization of sampled-data nonlinear systems by an l-step receding horizon control based on their approximate discrete-time models. (English summary) **2005h:93132**

Elliott, David L. A controllability counterexample. (English summary) **2005m:93010**

El-Tawil, Magdy A. (*with* Bahnasawi, Ahmed A.; Abdel-Naby, Ahmed) Solving Riccati differential equation using Adomian's decomposition method. (English summary) **2005d:65129**

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Gallivan, K. (*with* Vandendorpe, A.; Van Dooren, Paul) Sylvester equations and projection-based model reduction. (English summary) **2005g:93021**

Gao, Huijun (*with* Lam, James; Wang, Chang Hong[1]; Wang, Qing[6]) Hankel norm approximation of linear systems with time-varying delay: continuous and discrete cases. (English summary) **2005g:93027**

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Goncharova, E. V. (*with* Baturin, V. A.; Sousa, J. B.; Pereĭra, F. L.) A reachable set estimation algorithm for impulsive control systems. (*see* **2005g:00019**)

Gong, Tao *see* **Cai, Zi Xing**

Goodwin, Graham C. *see* **Pérez, Tristan et al., 2005d:93151**

Gorbunov, Vladimir K. (*with* Lutoshkin, Igor V.) Development and an attempt at applying the parametrization method in degenerate dynamic optimization problems. (Russian. Russian summary) **2005h:49081**

(Grasselli, O. M.) *see* **Varga, Andras**

Grieder, Pascal (*with* Borrelli, Francesco; Torrisi, Fabio; Morari, Manfred) Computation of the constrained infinite time linear quadratic regulator. (English summary)

Grüne, Lars (*with* Junge, Oliver) A set oriented approach to optimal feedback stabilization. (English summary) **2005g:93092**

Gu, Da-Wei *see* **Whidborne, James F. et al.**

Guo, Lei[1] (*with* Wang, Hong[4]) Applying constrained nonlinear generalized PI strategy to PDF tracking control through square root B-spline models. (English summary)

Hachez, Yvan (*with* Nesterov, Yurii) Optimization problems over non-negative polynomials with interpolation constraints. (English summary) **2005k:90101**

Hagiwara, Tomomichi (*with* Mugiuda, Toru) Positive-realness analysis of sampled-data systems and its applications. (English summary)

— *see also* Zhou, Jun[2]

Haimovich, Hernan *see* **Pérez, Tristan et al., 2005d:93151**

Han, Soo Hee *see* **Kwon, Wook Hyun et al.**

Hansson, Anders *see* **Vandenberghe, Lieven et al., 2005m:90080**

Hashem, M. M. A. *see* **Watanabe, Keigo, 2005c:93003**

Hätönen, J. (*with* Owens, D. H.) Convex modifications to an iterative learning control law. (English summary)

Heimsund, Bjørn-Ove (*with* Chan, Tony F. C.; Nilssen, Trygve K.; Tai, Xue-Cheng) Level set methods for a parameter identification problem. **2005a:93045**

Henrion, Didier LMI optimization for fixed-order H_∞ controller design. (English summary) **2005j:93028**

— (*with* Lasserre, Jean-Bernard) Detecting global optimality and extracting solutions in GloptiPoly. (English summary) **2005j:93003**

Hespanha, João P. *see* **Aguiar, A. Pedro et al.**

Hintermüller, Michael (*with* Kunisch, Karl; Spasov, Yulian; Volkwein, Stefan) Dynamical systems-based optimal control of incompressible fluids. (English summary) **2005f:76044**

Hiskens, Ian A. Iterative computation of marginally stable trajectories. (English summary)

Horton, K. G. *see* **Campbell, S. L. et al., 2005k:93228**

Hu, Li-Sheng (*with* Huang, Biao; Cao, Yong-Yan) Robust digital model predictive control for linear uncertain systems with saturations. (English summary) **2005b:93110**

Hua, Hongxing *see* **Shi, Yinming et al.**

Huang, Biao *see* **Hu, Li-Sheng et al., 2005b:93110**

Huang, Chih-Peng (*with* Juang, Yau-Tarng; Lin, Hui-Ling) A complex projection scheme and applications. (English summary) **2005m:15046**

Ivanov, Rossen I. *see* **Condon, M., 2005m:93009**

Iyer, Ram Venkataraman (*with* Tan, Xiaobo; Krishnaprasad, P. S.) Approximate inversion of the Preisach hysteresis operator with application to control of smart actuators. (English summary) **2005m:93073**

Jabedar-Maralani, Parviz *see* **Karimi, H. R. et al., 2005m:49054**

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Juang, Yau-Tarng *see* **Huang, Chih-Peng et al., 2005m:15046**

Junge, Oliver *see* **Grüne, Lars, 2005g:93092**

Kao, Chung-Yao (*with* Megretskiĭ, A. V.; Jönsson, Ulf T.) Specialized fast algorithms for IQC feasibility and optimization problems. (English summary) **2005m:93114**

Karampetakis, N. P. *see* **Vologiannidis, S., 2005g:15012**

Karimi, H. R. (*with* Moshiri, B.; Lohmann, B.; Jabedar-Maralani, Parviz) Haar wavelet-based approach for optimal control of second-order linear systems in time domain. (English summary) **2005m:49054**

Keviczky, László (*with* Bányász, Csilla) New structural considerations for model predictive and iterative control. (English summary)

Khajepour, Amir *see* **Li, Guang[2]**

Kimura, Hidenori *see* **Oishi, Yasuaki, 2005d:93042** *and* **Oku, Hiroshi**

Kokotović, Petar V. *see* **Aguiar, A. Pedro et al.**

Konstantinov, Mikhail M. (*with* Petkov, Petko Khr.) ★ Пертурбационен анализ в линейната алгебра и теория на управлението. (Bulgarian) [Perturbation analysis in linear algebra and control theory] **2005h:93081**

Körkel, Stefan (*with* Kostina, Ekaterina; Bock, Hans Georg; Schlöder, Johannes P.) Numerical methods for optimal control problems in design of robust optimal experiments for nonlinear dynamic processes. (English summary) **2005d:49050**

Kostina, Ekaterina *see* **Körkel, Stefan et al., 2005d:49050**

Kostousova, E. K. Polyhedral estimates of reachable sets to linear discrete systems with integral bounds on controls. (*see* **2005g:00019**)

Kothare, Mayuresh V. *see* **Wan, Zhaoyang, 2005b:93106**

Kouvaritakis, Basil *see* **Lee, Young Il**

Kovalev, A. M. Solution of a two-point control problem using a measurable function on several trajectories. (Russian. Russian summary) **2005m:49052**

Krishnaprasad, P. S. *see* **Iyer, Ram Venkataraman et al., 2005m:93073**

Kuc, Tae-Yong *see* **Choi, Han Ho, 2005k:93095**

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Kunoth, Angela Adaptive wavelet schemes for an elliptic control problem with Dirichlet boundary control. (English summary) **2005k:49095**

Kuo, Yuen-Cheng (*with* Lin, Wen Wei; Xu, Shu-Fang) Regularization of linear discrete-time periodic descriptor systems by derivative and proportional state feedback. (English summary) **2005b:93026**

Kwon, Wook Hyun (*with* Lee, Young Sam; Han, Soo Hee) General receding horizon control for linear time-delay systems. (English summary)

Lam, James *see* **Gao, Huijun et al., 2005g:93027** *and* **Zhong, Maiying et al.**

Langson, W. (*with* Chryssochoos, I.; Raković, S. V.; Mayne, D. Q.) Robust model predictive control using tubes. (English summary)

Lasserre, Jean-Bernard *see* **Henrion, Didier, 2005j:93003**

Lee, Tong Heng *see* **Lin, Chong et al.** *and* **Xu, Jian-Xin et al.**

Lee, Young Il (*with* Kouvaritakis, Basil) Superposition in efficient robust constrained predictive control. (English summary)

Lee, Young Sam *see* **Kwon, Wook Hyun et al.**

Li, Duan *see* **Bai, Er-Wei, 2005g:93032**

Li, Guang[2] (*with* Khajepour, Amir) Robust control of a hydraulically driven flexible arm using backstepping technique. (English summary)

Li, Pu (*with* Wendt, Moritz; Wozny, Günter) A probabilistically constrained model predictive controller. (English summary)

Liberzon, Daniel (*with* Tempo, Roberto) Common Lyapunov functions and gradient algorithms. (English summary) **2005e:93146**

Lin, Chong (*with* Wang, Qing-Guo; Lee, Tong Heng) An improvement on multivariable PID controller design via iterative LMI approach. (English summary)

Lin, Hui-Ling *see* **Huang, Chih-Peng et al., 2005m:15046**
Lin, Wen Wei *see* **Kuo, Yuen-Cheng et al., 2005b:93026** *and* **Chu, Eric King-wah et al., 2005d:93083**
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Ma, Fu-ming (*with* Sun, Fangfang) Numerical reconstruction of piecewise constant potential for one dimensional Helmholtz equation. (English summary) (*see* **2005d:35008**)
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Meng, Ming *see* **Xu, Zhen Lin et al.**
Michiels, Wim (*with* Mondié, Sabine; Roose, Dirk; Dambrine, Michel) The effect of approximating distributed delay control laws on stability. (English summary) **2005e:93113**
— *see also* **Roose, Dirk et al., (2005d:93003)**
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Morrison, Ronald W. ★ Designing evolutionary algorithms for dynamic environments. **2005b:90005**
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Negreanu, Mihaela (*with* Zuazua, Enrique) A 2-grid algorithm for the 1-d wave equation. (English summary) (*see* **2005b:00020**)
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Nishiyama, Kiyoshi An H_∞ optimization and its fast algorithm for time-variant system identification. (English summary) **2005a:93058**
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Oku, Hiroshi (*with* Kimura, Hidenori) Recursive 4SID algorithms using gradient type subspace tracking. (English summary)
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Pereïra, F. L. *see* **Goncharova, E. V. et al., (2005g:00019)**
Pérez, Tristan (*with* Haimovich, Hernan; Goodwin, Graham C.) On optimal control of constrained linear systems with imperfect state information and stochastic disturbances. (English summary) **2005d:93151**
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— *see also* **Michiels, Wim et al., 2005e:93113**
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Söylemez, M. T. (*with* Munro, Neil; Baki, H.) Fast calculation of stabilizing PID controllers. (English summary)
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Sun, Wen An (*with* Zhao, Jun[2]) H_∞ robust control of uncertain switched linear systems based on LMIs. (Chinese. English and Chinese summaries)
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Tan, Chee Pin (*with* Edwards, Christopher) Sliding mode observers for detection and reconstruction of sensor faults. (English summary)
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Vologiannidis, S. (*with* Karampetakis, N. P.) Inverses of multivariable polynomial matrices by discrete Fourier transforms. (English summary) **2005g:15012**
Volosov, V. V. (*with* Tyutyunnik, L. I.) Robust algorithms for the ellipsoidal estimation of the state of continuous and discrete time-dependent dynamical systems with noncontrollable perturbations and noise in the measurement channels. (Russian. Russian summary) **2005a:93048**
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Wang, Hong[4] *see* **Guo, Lei[1]**
Wang, Jia Jun[1] *see* **Xu, Zhen Lin et al.**
Wang, Qing[6] *see* **Gao, Huijun et al., 2005g:93027**
Wang, Qing-Guo *see* **Lin, Chong et al.**
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Watanabe, Keigo (*with* Hashem, M. M. A.) ★ Evolutionary computations. **2005c:93003**
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Whidborne, James F. (*with* Gu, Da-Wei; Wu, Jun[3]; Chen, Sheng[2]) Optimal controller and filter realizations using finite-precision, floating-point arithmetic. (English summary)
Whittle, Jon (*with* Schumann, Johann) Automating the implementation of Kalman filter algorithms. (English summary)
Willcox, K. (*with* Megretskiĭ, A. V.) Fourier series for accurate, stable, reduced-order models in large-scale linear applications. (English summary) **2005j:42005**
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Xu, Jian-Xin (*with* Tan, Ying[1]) On the P-type and Newton-type ILC schemes for dynamic systems with non-affine-in-input factors. (English summary)
— (*with* Tan, Ying[1]; Lee, Tong Heng) Iterative learning control design based on composite energy function with input saturation. (English summary)
Xu, Shu-Fang *see* **Kuo, Yuen-Cheng et al., 2005b:93026**
Xu, Zhen Lin (*with* Wang, Jia Jun[1]; Meng, Ming; Wang, Hao) Stabilization of an uncertain nonholonomic control system based on backstepping. (Chinese. English and Chinese summaries)
Yagci, B. *see* **Frazho, A. E. et al., 2005g:93108**
Yu, Dong Won The generalized Euler process for exponentially dominant systems. (English summary) **2005c:65057**

Yu, Jen-te A convergent algorithm for computing stabilizing static output feedback gains. (English summary)
Zečević, Aleksandar I. (*with* Šiljak, Dragoslav D.) Global low-rank enhancement of decentralized control for large-scale systems. (English summary) **2005k:93005**
Zhang, Chang (*with* Deng, Hao; Baras, John S.) Run-to-run control methods based on the DHOBE algorithm. (English summary)
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Zhong, Maiying (*with* Ding, Steven Xianchun; Lam, James; Wang, Haibo) An LMI approach to design robust fault detection filter for uncertain LTI systems. (English summary)
Zhou, Jun[2] (*with* Hagiwara, Tomomichi) H_2 and H_∞ norm computations of linear continuous-time periodic systems via the skew analysis of frequency response operators. (English summary)
Zhou, Tong[1] (*with* Xing, Hua-Wei) Identification of normalized coprime factors through constrained curve fitting. (English summary)
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Campi, M. C. (*with* Lecchini, Andrea; Savaresi, S. M.) Virtual reference feedback tuning: a direct method for the design of feedback controllers. (English summary)
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Darbha, Swaroop On the synthesis of controllers for continuous time LTI systems that achieve a non-negative impulse response. (English summary)
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Gorez, Raymond Erratum to: "New design relations for 2-DOF PID-like control systems" [Automatica J. IFAC **39** (2003), no. 5, 901–908; MR2138363]. **Grigoryan, F. P.** Synthesis of controls with the desired spectrum in an n-order scalar equation. (Russian. Russian and Armenian summaries) **2005m:93057**
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Ho, Ming-Tzu (*with* Huang, Sheng-Tsai) On the synthesis of robust PID controllers for plants with structured and unstructured uncertainty. (English summary) **2005i:93039**
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Huang, Sheng-Tsai *see* **Ho, Ming-Tzu, 2005i:93039**
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Kim, A. V. (*with* Volkanin, L. S.) On the synthesis of a control for systems with aftereffect in the control parameters. (Russian. English and Russian summaries) **2005b:93066**
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Kogan, M. M. *see* **Balandin, D. V., 2005k:93076**
Köse, İ. Emre *see* **Jabbari, Faryar, 2005g:93046**
Kuntsevich, V. M. Synthesis of robustly optimal adaptive systems for the control of time-dependent objects under bounded perturbations. (Russian. English, Russian and Ukrainian summaries) **2005h:93062**
Larin, Vladimir B. On the design of a robust controller for a periodic controlled system. (Russian. English, Russian and Ukrainian summaries) **2005h:93063**
Lecchini, Andrea *see* **Campi, M. C. et al.**
Lemmon, Michael D. *see* **Ling, Qiang, 2005a:93068**
Li, Shao Yuan[2] (*with* Zhang, Yan[11]; Zhu, Quanmin) Nash-optimization enhanced distributed model predictive control applied to the Shell benchmark problem. (English summary) **2005h:93064**
— *see also* **Ding, Bao Cang et al.**
Ling, Qiang (*with* Lemmon, Michael D.) Power spectral analysis of networked control systems with data dropouts. (English summary) **2005a:93068**
Lončarić, Josip (*with* Tsynkov, S. V.) Quadratic optimization in the problems of active control of sound. (English summary) **2005h:93065**
Lozgachev, G. I. *see* **Dylevskiĭ, A. V., 2005f:93060**
Lychenko, N. M. Decentralized tracking problems for interconnected systems: development of algorithms and modeling. (Russian. English summary) **2005e:93057**
Martynyuk-Chernienko, Yu. A. (*with* Slyn′ko, V. I.) On the synthesis of controls of an inexact system with a conditionally invariant set. (Russian. English and Ukrainian summaries) **2005f:93062**
Mejhed, N. H. (*with* Hmamed, A.; Benzaouia, Abdellah) Continuous time regulator for linear systems with constrained control. (English summary)
Opeĭko, O. F. Synthesis of a linear system on the basis of a simplified model of the plant. (Russian. Russian summary) **2005j:93031**
Padhi, Radhakant (*with* Balakrishnan, S. N.; Randolph, Timothy) Adaptive-critic based optimal neuro control synthesis for distributed parameter systems. (English summary)
Paganini, Fernando *see* **de Castro, Gustavo Ayres**
Panfilov, D. Yu. Construction of minimum-phase multidimensional systems and the stabilization problem. (Russian. Russian summary) **2005h:93066**
Park, Juhyun[1] On design of dynamic output feedback controller for GCS of large-scale systems with delays in interconnections: LMI optimization approach. (English summary) **2005h:93067**
Pinchinat, Sophie *see* **Riedweg, Stéphane**, (**2005b:68020**)
Postlethwaite, Ian *see* **Turner, Matthew C., 2005e:93058**
Proskurnikov, A. V. (*with* Yakubovich, V. A.) The problem of absolute invariance for control systems with delay. (Russian) **2005i:93040**
Randolph, Timothy *see* **Padhi, Radhakant et al.**
Riedweg, Stéphane (*with* Pinchinat, Sophie) Quantified mu-calculus for control synthesis. (English summary) (*see* **2005b:68020**)
Rustamov, G. A. Synthesis of a finite control of variable structure for controllable plants whose transfer functions contain zeros. (Russian. Russian summary)
Savaresi, S. M. *see* **Campi, M. C. et al.**
Sirotin, A. N. On the solution of the problem of the synthesis of a control for a class of linear 0-controlled discrete systems with constraints. (Russian. Russian summary) **2005i:93041**
Slyn′ko, V. I. *see* **Martynyuk-Chernienko, Yu. A., 2005f:93062**
Soto, Marco *see* **Wu, Fen**
Su, Hong Ye *see* **Xiang, Ji et al.**
Sundarapandian, V. Nonlinear observer design for a general class of discrete-time nonlinear systems with real parametric uncertainty. (English summary) **2005k:93079**
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Tokuyama, Kazuma *see* **Ebihara, Yoshio et al., 2005h:93060**
Tsynkov, S. V. *see* **Lončarić, Josip, 2005h:93065**
Turner, Matthew C. (*with* Postlethwaite, Ian) Multivariable override control for systems with output and state constraints. (English summary) **2005e:93058**
Ukhobotov, V. I. Synthesis of guaranteed control based on approximating scheme. (English summary) **2005a:93069**
Vicino, Antonio *see* **Bianchini, Gianni et al., 2005f:93058**
Volkanin, L. S. *see* **Kim, A. V., 2005b:93066**
Wang, Cong[2] *see* **Ge, Shuzhi Sam, 2005k:93078**
Wang, Jin-Zhi (*with* Huang, Lin[1]; Duan, Zhi-Sheng) Design of controller for a class of pendulum-like system guaranteeing dichotomy. (English summary)
Whidborne, James F. (*with* Gu, Da-Wei; Wu, Jun[3]; Chen, Sheng[2]) Optimal controller and filter realizations using finite-precision, floating-point arithmetic. (English summary)
Wu, Fen (*with* Soto, Marco) Extended anti-windup control schemes for LTI and LFT systems with actuator saturations. (English summary)
Wu, Jun[3] *see* **Whidborne, James F. et al.**
Xi, Yu Geng *see* **Ding, Bao Cang et al.**
Xiang, Ji (*with* Su, Hong Ye; Chu, Jian; Zhang, Xiao Yu) New synthesis algorithm of static output feedback sliding mode control for a class of uncertain systems. (English summary)
Yakubovich, V. A. *see* **Proskurnikov, A. V., 2005i:93040**
Yang, Ping-Hua (*with* Ge, Wei Gao) Periodic solution for a delayed ratio-dependent P-P system with feedback control. (English summary)
Yang, Ying[1] (*with* Fu, Rao; Huang, Lin[1]) Robust analysis and synthesis for a class of uncertain nonlinear systems with multiple equilibria. (English summary) **2005h:93068**
Zaccarian, Luca (*with* Teel, Andrew R.) Nonlinear scheduled anti-windup design for linear systems. (English summary) **2005f:93063**
— *see also* **Grimm, Gene et al., 2005b:93065**
Zhang, Xiao Yu *see* **Xiang, Ji et al.**
Zhang, Yan[11] *see* **Li, Shao Yuan[2] et al., 2005h:93064**
Zhu, Quanmin *see* **Li, Shao Yuan[2] et al., 2005h:93064**

Items with secondary classifications in 93B50

Agler, Jim (*with* Young, Nicholas J.) The hyperbolic geometry of the symmetrized bidisc. (English summary) **2005e:32022**

Ahn, Hyo-Sung *see* **Won, Chang-Hee**, **2005g:49068**

Aliev, Fikret A. (*with* Larin, Vladimir B.) Special cases of optimization problems for time-independent linear systems that function by the feedback principle. (Russian. English and Ukrainian summaries) **2005b:49067**

Andreev, F. (*with* Auckly, Dave; Gosavi, S.; Kapitanskiĭ, L. V.; Kelkar, A. G.; White, Warren J.) Matching linear systems, and the ball and beam. (English summary)

Auckly, Dave *see* **Andreev, F. et al.**

Balashevich, N. V. (*with* Gabasov, R.; Kirillova, F. M.) Construction of optimal feedback from mathematical models with uncertainty. (Russian. Russian summary) **2005a:49068**

Balluchi, Andrea (*with* Benvenuti, Luca; Villa, Tiziano; Wong-Toi, Howard; Sangiovanni-Vincentelli, Alberto L.) Controller synthesis for hybrid systems with a lower bound on event separation. (English summary) **2005a:93099**

Barkovsky, A. *see* **Goncharov, V. I. et al.**, **2005b:93064**

Benvenuti, Luca *see* **Balluchi, Andrea et al.**, **2005a:93099**

Blinova, N. *see* **Goncharov, V. I. et al.**, **2005b:93064**

Bobtsov, A. A. Synthesis of a control law for the stabilization of a nonlinear system, based on measurements of the output. (Russian. Russian summary) **2005f:93134**

Bodson, Marc Rejection of periodic disturbances of unknown and time-varying frequency. (English summary)

Bogatyrev, V. D. A mechanism for the control of interaction in a one-level organizational system. (Russian. Russian summary) **2005m:93005**

Bonnard, Bernard (*with* Faubourg, Ludovic; Trélat, Emmanuel) Classification of local optimal syntheses for time minimal control problem with state constraints. (English summary) **2005d:49038**

Boscain, Ugo (*with* Piccoli, Benedetto) ★ Optimal syntheses for control systems on 2-D manifolds. **2005m:49002**

Bouyer, Patricia (*with* D'Souza, Deepak; Madhusudan, P.; Petit, Antoine) Timed control with partial observability. (English summary) (*see* **2005b:68012**)

Brandys, Witold *see* **Duda, Zdzisław**, **2005f:93176**

Cai, Xiaowen *see* **Loh, Ai Poh et al.**, **2005m:93100**

Cao, Yong-Yan (*with* Lin, Zongli) A descriptor system approach to robust stability analysis and controller synthesis. (English summary) **2005f:93123**

Černý, Václav (*with* Hrušák, Josef) Non-linear observer design method based on dissipation normal form. (English summary) **2005m:93021**

Chang, Wen Jer (*with* Sun, Chein-Chung) Authors' reply to: "Comments on: 'Constrained fuzzy controller design of discrete Takagi-Sugeno fuzzy models'" [Fuzzy Sets and Systems **146** (2004), no. 3, 473–476; MR2082238] by F. Sun, H. P. Liu and Z. Sun.

— *see also* **Sun, Fu-Chun et al.**

Chen, Shyh-Leh *see* **Hsu, Chan-Tang**

Chesi, Graziano Computing output feedback controllers to enlarge the domain of attraction in polynomial systems. (English summary) **2005h:93083**

Choque Rivero, Abdon Eddy (*with* Korobov, V. I.; Skorik, V. A.) The controllability function as the time of motion. I. (Russian. English, Russian and Ukrainian summaries) **2005f:49084**

Clark, J. M. C. *see* **Vinter, Richard B. et al.**, **2005j:91016**

Cois, O. *see* **Lanusse, P. et al.**

Datsko, O. *see* **Goncharov, V. I. et al.**, **2005b:93064**

Dmitruk, N. M. *see* **Gabasov, R. et al.**, **2005k:49103**

D'Souza, Deepak *see* **Bouyer, Patricia et al.**, (**2005b:68012**)

Duda, Zdzisław (*with* Brandys, Witold) Two-level stochastic control for a linear system with nonclassical information. (English summary) **2005f:93176**

Dumont, Guy A. *see* **Stewart, G. E. et al.**, **2005k:93108**

Egerstedt, Magnus B. *see* **Muhammad, Abubakr**, (**2005g:93004**)

Fabrizio, Mauro (*with* Giorgi, Claudio; Naso, Maria Grazia) Viscoelastic solids of exponential type. I. Minimal representations and controllability. (English summary) **2005k:74016**

Faubourg, Ludovic *see* **Bonnard, Bernard et al.**, **2005d:49038**

Feng, Gang[1] (*with* Lu, G. P.; Zhou, Shao Sheng) An approach to H_∞ controller synthesis of piecewise linear systems. (English summary) **2005d:93051**

— H_∞ controller synthesis of piecewise discrete time linear systems. (English summary) **2005d:93052**

Fujimori, Atsushi Optimization of static output feedback using substitutive LMI formulation. (English summary) **2005b:93133**

Gabasov, R. (*with* Kirillova, F. M.; Pesetskaya, T. I.) Synthesis of optimal feedback from nondeterministic models and inexact measurements of the states of control systems. (Russian. Russian summary) **2005a:49069**

— (*with* Dmitruk, N. M.; Kirillova, F. M.) Optimal control of multidimensional systems by inaccurate measurements of their output signals. (English summary) **2005k:49103**

— *see also* **Balashevich, N. V. et al.**, **2005a:49068**

Gaĭshun, I. V. Synthesis of nilpotent two-parameter discrete systems over a commutative ring. (Russian. Russian summary) **2005k:93124**

Gastin, Paul (*with* Lerman, Benjamin; Zeitoun, Marc) Distributed games and distributed control for asynchronous systems. (English summary) **2005f:91008**

German, O. V. (*with* Zan'ko, D. V.) Synthesis of a control algorithm in a system of production rules with a time parameter. (Russian. Russian summary) **2005e:68232**

Giorgi, Claudio *see* **Fabrizio, Mauro et al.**, **2005k:74016**

Glumov, V. M. *see* **Rutkovskiĭ, V. Yu. et al.**, **2005d:70012**

Goncharov, V. I. (*with* Barkovsky, A.; Blinova, N.; Datsko, O.) Multi-loop linear control systems design. (English summary) **2005b:93064**

Gorinevskiĭ, D. M. *see* **Stewart, G. E. et al.**, **2005k:93108**

Gosavi, S. *see* **Andreev, F. et al.**

Gruyitch, Lyubomir T. New development of vector Lyapunov functions and airplane control synthesis. (English summary) **2005f:93157**

Guerra, Manuel Distribution-like Hamiltonian flows and generalized optimal controls. **2005j:49028**

Ha, Q. P. (*with* Trinh, H.) Observer-based control of multi-agent systems under decentralized information structure. (English summary)

Habets, L. C. G. J. M. (*with* van Schuppen, J. H.) A control problem for affine dynamical systems on a full-dimensional polytope. (English summary) **2005m:93013**

Han, Qing-Long *see* **Jiang, Xie Fu et al.**

Hol, C. W. J. (*with* Scherer, C. W.) A sum-of-squares approach to fixed-order H_∞-synthesis. **2005j:93029**

Hrušák, Josef *see* **Černý, Václav**, **2005m:93021**

Hsu, Chan-Tang (*with* Chen, Shyh-Leh) Nonlinear control of a 3-pole active magnetic bearing system. (English summary)

Huang, Jie[1] *see* **Lan, Weiyao**, **2005a:93051**

James, M. R. *see* **Vinter, Richard B. et al.**, **2005j:91016**

Jiang, Xie Fu (*with* Xu, Wen Li[1]; Han, Qing-Long) Observer-based fuzzy control design with adaptation to delay parameter for time-delay systems. (English summary)

Kapitanskiĭ, L. V. *see* **Andreev, F. et al.**

Kapustyan, Olena A. Approximate synthesis of optimal bounded control for a parabolic boundary value problem. (Ukrainian. English and Ukrainian summaries) **2005a:49071**

Karampetakis, N. P. *see* **Vologiannidis, S.**, **2005g:15012**

Kelkar, A. G. *see* **Andreev, F. et al.**

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Konstantinov, Mikhail M. (*with* Petkov, Petko Khr.; Khristov, Nikolaĭ D.) The technique of splitting operators in perturbation control theory. (English summary) **2005k:93063**

Korobov, V. I. *see* **Choque Rivero, Abdon Eddy et al.**, **2005f:49084**

Koshkouei, Ali J. (*with* Zinober, Alan S. I.) Sliding mode state observation for non-linear systems. (English summary) **2005b:93032**

Kovalenok, N. N. Synthesis of a positional solution of a terminal optimal control problem in the class of relay functions. (Russian. English and Russian summaries)

Lan, Weiyao (*with* Huang, Jie[1]) On the discrete-time robust nonlinear servomechanism problem. (English summary) **2005a:93051**

Lanusse, P. (*with* Poinot, Thierry; Cois, O.; Oustaloup, A.; Trigeassou, Jean-Claude) Restricted-complexity controller with Crone control-system design and closed-loop tuning. (English summary)

Larin, Vladimir B. *see* **Aliev, Fikret A.**, **2005b:49067**

Lerman, Benjamin *see* **Gastin, Paul et al.**, **2005f:91008**

Lin, Feng[1] Theorem of abstraction for equivalent controllers in hybrid systems. (English summary)

Lin, Zongli *see* **Cao, Yong-Yan**, **2005f:93123**

Liu, Hua Ping[2] *see* **Chang, Wen Jer** *and* **Sun, Fu-Chun et al.**

Liu, Xiao Ping[2] *see* **Wang, Wen Tao[2] et al.**, **2005h:93084**

Loh, Ai Poh (*with* Cai, Xiaowen; Tan, W. W.) Auto-tuning of phase lead/lag compensators. (English summary) **2005m:93100**

Lu, Bei *see* **Wu, Fen**, **2005b:93129**

Lu, G. P. *see* **Feng, Gang[1] et al.**, **2005d:93051**

Madhusudan, P. (*with* Thiagarajan, P. S.) Distributed controller synthesis for local specifications. (English summary) (*see* **2005a:68007**)

— *see also* **Bouyer, Patricia et al.**, (**2005b:68012**)

Mammadov, Musa (*with* Orsi, Robert) H_∞ synthesis via a nonsmooth, nonconvex optimization approach. (English summary) **2005m:93049**

Mei, Shengwei *see* **Shen, Tie Long et al.**

Melichar, Jiří *see* **Mošna, Jiřiet al.**, **2005h:93057**

Morgül, Ömer A model-based scheme for anticontrol of some discrete-time chaotic systems. (English summary) **2005e:93091**

Mošna, Jiří (*with* Melichar, Jiří; Pešek, Pavel) Constrained non-smooth optimization in dead-beat control of linear servosystems. (English summary) **2005h:93057**

Muhammad, Abubakr (*with* Egerstedt, Magnus B.) Decentralized coordination with local interactions: some new directions. (English summary) (*see* **2005g:93004**)

Naso, Maria Grazia *see* **Fabrizio, Mauro et al.**, **2005k:74016**

Orsi, Robert *see* **Mammadov, Musa**, **2005m:93049**

Ortega, Romeo *see* **Shen, Tie Long et al.**

Oustaloup, A. *see* **Lanusse, P. et al.**

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Pesetskaya, T. I. *see* **Gabasov, R. et al.**, **2005a:49069**

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Petkov, Petko Khr. *see* **Konstantinov, Mikhail M. et al.**, **2005k:93063**

Piccoli, Benedetto *see* **Boscain, Ugo**, **2005m:49002**

Pilishkin, V. N. The method of integral boundary surfaces in the problem of the control of dynamic plants. (Russian. Russian summary) **2005k:93104**

Poinot, Thierry *see* **Lanusse, P. et al.**

Qi, Li *see* **Sun, Xi Ming et al.**

Qi, Xin (*with* Salapaka, Murti V.; Voulgaris, Petros G.; Khammash, Mustafa) Structured optimal and robust control with multiple criteria: a convex solution. (English summary) **2005e:93093**

Rutkovskiĭ, V. Yu. (*with* Zemlyakov, S. D.; Sukhanov, V. M.; Glumov, V. M.) A control algorithm for nonlinear multiconnected objects. (English summary) **2005d:70012**

Saberi, Ali *see* **Stoorvogel, Anton A.**

Salapaka, Murti V. *see* **Qi, Xin et al.**, **2005e:93093**

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van Schuppen, J. H. *see* **Habets, L. C. G. J. M.**, **2005m:93013**

Shen, Tie Long (*with* Sun, Yuan Zhang; Ortega, Romeo; Mei, Shengwei) Energy-shaping control of synchronous generators with exciter-governor dual control loops. (English summary)

Sheng, Jie[2] (*with* Sun, Jian-Qiao) Feedback controls and optimal gain design of delayed periodic linear systems. (English summary)

Shepelyavyĭ, A. I. *see* **Smirnova, V. B. et al.**, **2005f:93108**

Skorik, V. A. *see* **Choque Rivero, Abdon Eddy et al.**, **2005f:49084**

Smirnova, V. B. (*with* Utina, N. V.; Shepelyavyĭ, A. I.) Upper estimate of the number of cycle slips in discrete systems with periodic nonlinearity. (English summary) **2005f:93108**
Stewart, G. E. (*with* Gorinevskiĭ, D. M.; Dumont, Guy A.) Two-dimensional loop shaping. (English summary) **2005k:93108**
Stoorvogel, Anton A. (*with* Saberi, Ali) Editorial: The challenge of constraints [Special issue on control of linear systems subject to hard constraints].
Sukhanov, V. M. *see* **Rutkovskiĭ, V. Yu. et al., 2005d:70012**
Sun, Chein-Chung *see* **Chang, Wen Jer** *and* **Sun, Fu-Chun et al.**
Sun, Fu-Chun (*with* Liu, Hua Ping[2]; Sun, Zeng Qi) Comments on: "Constrained fuzzy controller design of discrete Takagi-Sugeno fuzzy models" [Fuzzy Sets and Systems **133** (2003), no. 1, 37–55; MR1952637] by W.-J. Chang and C.-C. Sun. (English summary)
— *see also* **Chang, Wen Jer**
Sun, Jian-Qiao *see* **Sheng, Jie[2]**
Sun, Xi Ming (*with* Qi, Li; Zhao, Jun[2]) Hybrid state-feedback guaranteed cost control for a class of uncertain linear systems. (Chinese. English and Chinese summaries)
Sun, Yuan Zhang *see* **Shen, Tie Long et al.**
Sun, Zeng Qi *see* **Chang, Wen Jer** *and* **Sun, Fu-Chun et al.**
Sundarapandian, V. Nonlinear observer design for a general class of nonlinear systems with real parametric uncertainty. (English summary) **2005k:93031**
Tan, W. W. *see* **Loh, Ai Poh et al., 2005m:93100**
Thiagarajan, P. S. *see* **Madhusudan, P., (2005a:68007)**
Trélat, Emmanuel *see* **Bonnard, Bernard et al., 2005d:49038**
Trigeassou, Jean-Claude *see* **Lanusse, P. et al.**
Trinh, H. *see* **Ha, Q. P.**
Utina, N. V. Lower estimation of the number of cycle-slip periods of phase-locked loops in discrete systems. (English summary) **2005a:93098**
— *see also* **Smirnova, V. B. et al., 2005f:93108**
Villa, Tiziano *see* **Balluchi, Andrea et al., 2005a:93099**
Vinter, Richard B. (*with* Clark, J. M. C.; James, M. R.) The interpretation of discontinuous state feedback control laws as nonanticipative control strategies in differential games. (English summary) **2005j:91016**
Vologiannidis, S. (*with* Karampetakis, N. P.) Inverses of multivariable polynomial matrices by discrete Fourier transforms. (English summary) **2005g:15012**
Voulgaris, Petros G. *see* **Qi, Xin et al., 2005e:93093**
Wang, Wen Tao[2] (*with* Liu, Xiao Ping[2]; Zhao, Jun[2]) Controlled invariant distributions of nonlinear singular systems and their invariant properties. (Chinese. English and Chinese summaries) **2005h:93084**
White, Warren J. *see* **Andreev, F. et al.**
Won, Chang-Hee (*with* Ahn, Hyo-Sung) Nonlinear orbital dynamic equations and state-dependent Riccati equation control of formation flying satellites. (English summary) **2005g:49068**
Wong-Toi, Howard *see* **Balluchi, Andrea et al., 2005a:93099**
Wu, Fen (*with* Lu, Bei) Anti-windup control design for exponentially unstable LTI systems with actuator saturation. (English summary) **2005b:93129**
Xu, Wen Li[1] *see* **Jiang, Xie Fu et al.**
Yablonskaya, K. A. On the realizability of rational functions by parallel-series RLC circuits. (Russian) **2005m:94055**
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Zhou, Shao Sheng *see* **Feng, Gang[1] et al., 2005d:93051**
Zhukovskaya, L. V. A new approach to risk estimation in multicriterial automatic control systems. I. (Russian. Russian summary)
Zinober, Alan S. I. *see* **Koshkouei, Ali J., 2005b:93032**
Zuber, I. E. Terminal control for nonstationary discrete systems. (English summary) **2005f:93110**
— Terminal output control for nonlinear time-dependent discrete systems. (Russian. English and Russian summaries) **2005g:93075**

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Abdallah, Chaouki T. *see* **Tarbouriech, Sophie et al., (2005g:93003)**
Al-Baiyat, Samir A. Design of a robust SVC damping controller using nonlinear H_∞ technique. (English and Arabic summaries)
Anai, Hirokazu (*with* Yanami, Hitoshi) SyNRAC: a Maple-package for solving real algebraic constraints. (English summary) (*see* **2005c:00014**)
Arcak, Murat Certainty-equivalence output-feedback design with circle-criterion observers. (English summary) **2005m:93059**
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Bányász, Csilla *see* **Keviczky, László**
Bar-Kana, Izhak Comments on: "Design of strictly positive real systems using constant output feedback" [IEEE Trans. Automat. Control **44** (1999), no. 3, 569–573; MR1680143 (2000a:93048)] by C.-H. Huang, P. A. Ioannou, J. Maroulas and M. G. Safonov. (English summary) **2005f:93064**
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Becerril Arreola, Rafael *see* **Maggiore, Manfredi, 2005e:93060**
Belykh, Vladimir N. (*with* Osipov, G. V.; Kuckländer, Nina; Blasius, Bernd; Kurths, Jürgen) Automatic control of phase synchronization in coupled complex oscillators. (English summary) **2005g:93047**
Bendtsen, J. D. (*with* Stoustrup, Jakob; Trangbaek, K.) Bumpless transfer between observer-based gain scheduled controllers. (English summary)
Benhamou, Frédéric (*with* Goualard, Frédéric; Languénou, Éric; Christie, Marc) Interval constraint solving for camera control and motion planning. (English summary)
Benzaouia, Abdellah *see* **Mesquine, Fouad et al.**
Bi, Wei Ping (*with* Mu, Xiao Wu; Sun, Yuqiang) Disturbance attenuation for uncertain nonlinear cascaded systems. (English summary) **2005d:93058**
Blasius, Bernd *see* **Belykh, Vladimir N. et al., 2005g:93047**
Bonivento, Claudio (*with* Isidori, Alberto; Marconi, Lorenzo; Paoli, Andrea) Implicit fault-tolerant control: application to induction motors. (English summary) **2005m:93060**
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Calafiore, Giuseppe (*with* Dabbene, Fabrizio) Control design with hard/soft performance specifications: a Q-parameter randomization approach. (English summary) **2005b:93067**
Cannon, Mark (*with* Deshmukh, Venkatesh; Kouvaritakis, Basil) Nonlinear model predictive control with polytopic invariant sets. (English summary)
— *see also* **Lee, Young Il et al.**
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Cao, Yong-Yan (*with* Lin, Zongli; Ward, David G.) Anti-windup design of output tracking systems subject to actuator saturation and constant disturbances. (English summary)
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Christensen, R. H. (*with* Santos, I. F.) Design of active controlled rotor-blade systems based on time-variant modal analysis. (English summary)
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Chu, Delin (*with* Malabre, Michel) Numerically reliable design for proportional and derivative state-feedback decoupling controller. (English summary)
Colaneri, P. (*with* Kučera, V.; Longhi, S.) Polynomial approach to the control of SISO periodic systems subject to input constraint. (English summary)
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Fujimoto, Hideo (*with* Tao, Yu; Yamakawa, Satoko) An interactive approach to fuzzy-based robust design. (English summary) (*see* **2005b:90008**)
Ge, Shuzhi Sam (*with* Lee, Tong Heng; Hong, Fan[2]; Goh, Cher Hiang) Energy-based robust controller design for flexible spacecraft. (English summary)
— *see also* **Gong, Jianqin et al., 2005f:93066**
Glass, John W. (*with* Franchek, Matthew A.) Convergence and computation of describing functions using a recursive Volterra series. (English summary) **2005f:93065**
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Goodwin, Graham C. (*with* Pérez, Tristan; De Doná, José A.) An introduction to constrained control. (English summary) **2005a:93070**
— (*with* Haimovich, Hernan; Quevedo, Daniel E.; Welsh, James S.) A moving horizon approach to networked control system design. (English summary) **2005d:93059**
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Gourdon, E. *see* **Sinha, S. C. et al.**
Grancharova, Alexandra (*with* Johansen, Tor Arne) Explicit approaches to constrained model predictive control: a survey. (English summary) **2005h:93069**
Grognard, Frédéric (*with* Sepulchre, Rodolphe; Bastin, Georges) Improving the performance of low-gain designs for bounded control of linear systems. (English summary)
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Guo, Lei[1] (*with* Wang, Hong[4]) Applying constrained nonlinear generalized PI strategy to PDF tracking control through square root B-spline models. (English summary)
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Huang, Lin[1] *see* **Duan, Zhi-Sheng et al., 2005g:93048**
Huang, Xin (*with* Huang, Biao) Fixed-order controller design for linear time-invariant descriptor systems: A BMI approach. (English summary)
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— A reduced-order controller design for nonlinear systems with uncertainties and disturbances. (English summary) **2005m:93061**
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— *see also* **Grancharova, Alexandra, 2005h:93069**
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Kiselev, O. N. Minimization of basic performance indices in linear discrete systems. (Russian. Russian summary) **2005k:93082**
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Lin, Chong (*with* Wang, Qing-Guo; Lee, Tong Heng) An improvement on multivariable PID controller design via iterative LMI approach. (English summary)
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Liu, Ce Richard *see* **Zhang, Yongpeng et al., 2005e:93061**
Liu, Tao[2] (*with* Zhang, Wei Dong[1]; Gu, Dan Ying) Analytical design for a class of open-loop unstable cascade control systems. (Chinese. English and Chinese summaries)
Longhi, S. *see* **Colaneri, P. et al.**
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Magarotto, E. *see* **Zasadzinski, M. et al.**
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Wang, Yuan Gang *see* **Li, Yin Ya et al.**
Wang, Zhan Shan (*with* Zhang, Hua Guang) Design of adaptive observer for fault estimation. (Chinese. English and Chinese summaries)
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Yan, Peng[1] (*with* Özbay, Hitay) Robust controller design for AQM and $\mathscr{H}^\infty$-performance analysis. (*see* **2005g:93003**)
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— Design of low-order controllers satisfying sensitivity constraints for unstructured uncertain plants. (English summary) **2005f:93068**
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Zasadzinski, M. (*with* Magarotto, E.; Rafaralahy, H.; Souley Ali, H.) Residual generator design for singular bilinear systems subjected to unmeasurable disturbances: an LMI approach. (English summary)
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Zhang, Wei Dong[1] *see* **Liu, Tao**[2] **et al.**
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Zhang, Yongpeng (*with* Shieh, Leang-San; Liu, Ce Richard; Guo, Shu-Mei) Digital PID controller design for multivariable analogue systems with computational input-delay. (English summary) **2005e:93061**
Zhivoglyadov, Peter V. (*with* Middleton, Richard H.) Switching controller design via convex polyhedral Lyapunov functions. (English summary) **2005k:93089**
— (*with* Middleton, Richard H.) Networked control design for linear systems. (English summary)
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Items with secondary classifications in 93B51

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Albertos, P. (*with* Sala, Antonio) ★ Multivariable control systems. **2005a:93001**
Aleksandrov, Aleksandr G. Adaptive control with a reference model with external perturbations. (Russian. Russian summary) **2005g:93068**
Allen, Jeffery C. ★ H^∞ engineering and amplifier optimization. **2005f:94173**
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Arrifano, Natache S. D. (*with* Oliveira, Vilma A.) Guaranteed cost fuzzy controllers for a class of uncertain nonlinear dynamic systems. (English summary)
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Henrion, Didier LMI optimization for fixed-order H_∞ controller design. (English summary) **2005j:93028**
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Huang, Zhen Yu[2] *see* **Sun, Tao et al.**
Hui, Qing *see* **Haddad, Wassim M. et al., 2005h:93117**
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Janin, Gabriel *see* **Bonnard, Bernard et al., 2005m:93101**
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Lee, Taih-Shyun (*with* Chen, Ye-Hwa; Chuang, Jason C.-H.) Robust control design of fuzzy dynamical systems. (English summary)

Lenci, Stefano (*with* Rega, Giuseppe) A unified control framework of the non-regular dynamics of mechanical oscillators. (English summary)

Li, Han-Xiong *see* **Sun, Fu-Chun et al.**

Li, Lei *see* **Sun, Fu-Chun et al.**

Li, Ning[4] (*with* Li, Shao Yuan[2]; Xi, Yu Geng) Multi-model predictive control based on the Takagi-Sugeno fuzzy models: a case study. (English summary)

Li, Shao Yuan[2] *see* **Li, Ning[4] et al.**

Li, Xiang[4] *see* **Lagoa, Constantino M. et al., 2005m:90072**

Li, Zhengguo (*with* Soh, Yeng Chai; Wen, Changyun) ★ Switched and impulsive systems. **2005k:93001**

Liberzon, Daniel (*with* Hespanha, João P.) Stabilization of nonlinear systems with limited information feedback. (English summary) **2005m:93126**

Limon, D. *see* **Alamo, T. et al., 2005m:93043**

Lin, Wei-Yand *see* **Lu, Wei[2] et al.**

Liu, Man (*with* Jing, Yuan Wei; Zhang, Si Ying) Design of D-stable robust state observer for delta operator systems. (Chinese. English and Chinese summaries)

Liu, Yung-Sheng *see* **Kau, Shih-Wei et al.**

Lu, Wei[2] (*with* Zhang, Yu Ming[1]; Lin, Wei-Yand) Nonlinear interval model control of quasi-keyhole arc welding process. (English summary)

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Mackenroth, Uwe ★ Robust control systems. **2005c:93002**

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Middleton, Richard H. (*with* Chen, Jie[4]; Freudenberg, J. S.) Tracking sensitivity and achievable $\mathscr{H}_\infty$ performance in preview control. (English summary)

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Mordukhovich, Boris S. (*with* Shvartsman, Ilya) Optimization and feedback control of constrained parabolic systems under uncertain perturbations. **2005d:49045**

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Noijen, S. P. M. (*with* Lambrechts, P. F.; Nijmeijer, Henk) An observer-controller combination for a unicycle mobile robot. (English summary)

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Sun, Fu-Chun (*with* Li, Han-Xiong; Li, Lei) Robot discrete adaptive control based on dynamic inversion using dynamical neural networks. (English summary)

Sun, Tao (*with* Huang, Zhen Yu[2]; Chen, Dayue) Signal frequency-based semi-active fuzzy control for two-stage vibration isolation system. (English summary)

Sun, Wen An *see* **Sun, Xi Ming et al.** *and* **Wang, Rui et al.**

Sun, Xi Ming (*with* Chen, Bing[2]; Sun, Wen An; Zhao, Jun[2]) Design of delay-dependent observer for a class of neutral delay. (Chinese. English and Chinese summaries)

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Tøndel, Petter (*with* Johansen, Tor Arne; Bemporad, Alberto) Evaluation of piecewise affine control via binary search tree. (English summary)

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Wang, Dan[1] (*with* Huang, Jie[1]) Adaptive neural network control for a class of uncertain nonlinear systems in pure-feedback form. (English summary)

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Wang, Rong-Jyue Observer-based fuzzy control of fuzzy time-delay systems with parametric uncertainties. (English summary)

Wang, Rui (*with* Sun, Wen An; Qi, Li; Zhao, Jun[2]) Guaranteed cost robust control for a class of uncertain switched linear systems. (Chinese. English and Chinese summaries)

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Yu, Ji Min (*with* Mu, Chun Lai; Mu, Xiao Wu; Chen, Shuwei) Output regulation of nonlinear singularly perturbed systems. (English summary) **2005a:93111**

Yu, Runyi (*with* Wang, Dianhui) Structural properties and poles assignability of LTI singular systems under output feedback. (English summary)

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Zhao, Jun[2] *see* **Sun, Xi Ming et al.** *and* **Wang, Rui et al.**
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Shi, Zhong Ke Aircraft manifold model description and robust controller design. (Chinese. English and Chinese summaries)
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— (*with* Xu, Daolin; Xie, JianHua) Controlling Hopf bifurcations of discrete-time systems in resonance. (English summary) **2005f:93073**
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Zheng, Wei Xing[1] *see* **Jiang, Guo-Ping**

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Bemporad, Alberto (*with* Morari, Manfred; Dua, Vivek; Pistikopoulos, Efstratios N.) Corrigendum to: "The explicit linear quadratic regulator for constrained systems" [Automatica J. IFAC **38** (2002), no. 1, 3–20; MR2110266].
Bená, Maria Aparecida *see* **Dos Santos, Jair Silvério, 2005m:35161**
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di Bernardo, Mario *see* **Angulo, Fabiola et al., 2005m:93072**
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— (*with* Xu, Zhen Yuan[2]; Xu, Wenbo) Converting chaos into periodic motion by state feedback control. (English summary)
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Cantó, Begoña (*with* Coll, Carmen; Sánchez, Elena) On positive behaviour of periodic control systems. (English summary)
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Chen, Hsin-Yuan *see* **Yang, Chi-Ching, (2005c:93005)**
Chen, Su Huan (*with* Guo, K. J.; Chen, Yu Dong) A method for estimating upper and lower bounds of eigenvalues of closed-loop systems with uncertain parameters. (English summary)
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Dobrowiecki, T. *see* **Schoukens, Johan et al.**
Dong, Xin Zhuang (*with* Zhang, Qing Ling; Zhao, Li Chun) Passive control of linear singular systems. (Chinese. English and Chinese summaries)
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— (*with* Kirillova, F. M.; Pavlenok, N. S.) Optimal control using dynamic controllers. (Russian. Russian summary) **2005h:49085**
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— (*with* Kirillova, F. M.) Optimal on-line control with delays. (English and Georgian summaries) **2005a:49070**
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— Regularity of the optimal feedback and the value function in convex problems of optimal control. (English summary) **2005d:49057**
Goldsmith, Peter B. On the equivalence of causal LTI iterative learning control and feedback control. (English summary)
— Author's reply to: "Comments on: 'On the equivalence of causal LTI iterative learning control and feedback control'" [Automatica J. IFAC **40** (2004), no. 5, 895–898 (2005); MR2152197] by D. H. Owens and E. Rogers.
— *see also* **Owens, D. H.**
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— (*with* Liu, Ping[1]; Zhu, Lifei) Positive periodic solutions of a class of functional differential systems with feedback controls. (English summary) **2005d:34151**

— (*with* Zhu, Lifei) Existence of positive periodic solutions for difference equations with feedback control. (English summary) **2005k:39012**

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Liu, Li Li (*with* Wu, Bao Wei; Zhang, Zhu Qing) Pole placement of a singular system by output feedback. (Chinese. English and Chinese summaries)

Liu, Ping[1] *see* **Li, Yong Kun et al., 2005d:34151**

Lobry, Claude (*with* Mazenc, Frédéric; Rapaport, Alain) Persistence in ecological models of competition for a single resource. (English and French summaries) **2005k:34196**

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Lyashko, S. I. (*with* Nomirovskiĭ, D. A.) Singular optimal control with feedback. (Russian. English summary) **2005k:49105**

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— (*with* Rifford, Ludovic; Sontag, Eduardo D.) Global asymptotic controllability implies input-to-state stabilization. (English summary) **2005e:93130**

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— *see also* **Al-Towaim, T. et al.** *and* **Goldsmith, Peter B.**

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Park, Juhyun[1] On dynamic output feedback guaranteed cost control of uncertain discrete-delay systems: LMI optimization approach. (English summary) **2005b:93102**

— (*with* Kwon, O. M.) On guaranteed cost control of neutral systems by retarded integral state feedback. (English summary)

Pavlenok, N. S. *see* **Gabasov, R. et al., 2005f:49085** *and* **2005h:49085**

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Ponomarenko, Vladimir I. *see* **Prokhorov, M. D. et al.**

Prokhorov, M. D. (*with* Ponomarenko, Vladimir I.; Karavaev, A. S.; Bezruchko, B. P.) Reconstruction of time-delayed feedback systems from time series. (English summary)

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Roca Martinez, Alicia (*with* Zaballa, I.) Feedback invariants via output injection. (English summary) **2005b:93028**

Rodríguez, Hugo (*with* Ortega, Romeo; Astolfi, Alessandro) On the control of a class of electromechanical systems. (English summary) (*see* **2005b:93007**)

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Ruiz-León, José Javier (*with* Orozco, Jorge Luis; Begovich, Ofelia) Closed-loop structure of decouplable linear multivariable systems. (English summary) **2005m:93082**

Rutkovskiĭ, V. Yu. (*with* Zemlyakov, S. D.; Sukhanov, V. M.; Glumov, V. M.) A control algorithm for nonlinear multiconnected objects. (English summary) **2005d:70012**

Sáez-Schwedt, Andrés (*with* Sánchez-Giralda, Tomás) On linear dynamical systems and feedback group over commutative rings. (English summary) **2005g:93029**

Sala, Antonio *see* **Albertos, P., 2005a:93001**

Sánchez, Elena *see* **Cantó, Begoña et al.**

Sánchez-Giralda, Tomás *see* **Sáez-Schwedt, Andrés, 2005g:93029**

Santosuosso, G. L. *see* **Marino, Riccardo et al.**

Savaresi, S. M. *see* **Campi, M. C. et al.**

Scattolini, Riccardo *see* **Magni, Lalo, 2005a:93080**

Scherpen, Jacquelien M. A. *see* **Jeltsema, Dimitri, 2005g:94141**

Schlöder, Johannes P. *see* **Diehl, Moritz et al., 2005e:93055**

Schoukens, Johan (*with* Dobrowiecki, T.; Pintelon, Rik) Estimation of the risk for an unstable behaviour of feeback systems in the presence of nonlinear distortions. (English summary)

Seatzu, Carla *see* **Giua, Alessandro et al., 2005b:93113**

Seiler, Peter (*with* Pant, Aniruddha; Hedrick, Karl) Disturbance propagation in vehicle strings. (English summary)

— (*with* Sengupta, Raja) An H_∞ approach to networked control. (English summary) **2005k:93071**

Sengupta, Raja *see* **Seiler, Peter, 2005k:93071**

Seo, Jin Heon *see* **Son, Young I. et al., 2005e:93106**

Shankaran, Sriram *see* **Stipanović, Dušan M. et al., 2005k:93121**

Shi, Song Jiao *see* **Dai, Li Yan**

Shim, Hyungbo *see* **Son, Young I. et al., 2005e:93106**

Sieber, Jan (*with* Krauskopf, Bernd) Complex balancing motions of an inverted pendulum subject to delayed feedback control. (English summary) **2005d:93075**

Šiljak, Dragoslav D. *see* **Zečević, Aleksandar I., 2005g:93007**

da Silva, Vilemar Gomes *see* **Castelan, Eugênio B., 2005g:93061**

Sirotin, A. N. Control with feedback for discrete systems with partially diagonalizable matrices. (Russian. Russian summary) **2005d:93092**

(Sivasundaram, S.) *see* **Advances in dynamics and control, 2005c:93005**

Skarpetis, M. G. *see* **Koumboulis, F. N. et al., 2005a:93128**

Smyshlyaev, Andrey (*with* Krstić, Miroslav) Explicit formulae for boundary control of parabolic PDEs. **2005d:93073**

Son, Young I. (*with* Shim, Hyungbo; Seo, Jin Heon) A dynamic output feedback control law for elastic joint robots via feedback-passivity approach. (English summary) **2005e:93106**

Sontag, Eduardo D. *see* **Malisoff, Michael et al., 2005e:93130** *and* **2005g:93096**

Stipanović, Dušan M. (*with* Shankaran, Sriram; Tomlin, Claire J.) Multi-agent avoidance control using an M-matrix property. (English summary) **2005k:93121**

Sukhanov, V. M. *see* **Rutkovskiĭ, V. Yu. et al., 2005d:70012**

Sun, Yuqiang *see* **Bi, Wei Ping et al., 2005d:93058**

Sze, Kam Yim *see* **Du, Haiping et al., 2005b:93054**

Tiano, Antonio *see* **Lozowicki, Adam, 2005b:93069**

Tomei, Patrizio *see* **Marino, Riccardo et al.**

Tomlin, Claire J. *see* **Stipanović, Dušan M. et al., 2005k:93121**

Topor, Zbigniew L. (*with* Vasilakos, Konstantinon; Remmers, John E.) Interaction of two chemoreflex loops in determining ventilatory stability. (English summary)

Trenn, Stephan *see* **Ilchmann, Achim, 2005e:93084**

Turetskiĭ, Vladimir Ya. (*with* Glizer, Valery Y.) Robust state-feedback controllability of linear systems to a hyperplane in a class of bounded controls. (English summary)

2005h:93022

Vainchtein, D. L. (*with* Mezić, Igor) Control of vortex elements: flat coordinates vs. adiabatic control. (English summary) **2005c:76026**

Vasilakos, Konstantinon *see* **Topor, Zbigniew L. et al.**

Vinter, Richard B. *see* **Clark, J. M. C., 2005d:91018**

Visentini, Luca *see* **Blanchini, Franco et al., 2005e:93103**

Voskresenskiĭ, E. V. Stabilization of programmed motion. (Russian. English and Ukrainian summaries) **2005c:93088**

Wan, Sheng (*with* Huang, Biao) Robust performance assessment of feedback control systems. (English summary)

Wang, Geng Sheng The existence of time optimal control of semilinear parabolic equations. (English summary) **2005e:49005**

Wang, Jenn-Nan (*with* Chou, So-Hsiang; Chen, Y. C.; Lin, Wen Wei) Pole assignment for a vibrating system with aerodynamic effect. (English summary) **2005f:93077**

Wang, Jin Hua[2] Asymptotic performance of H_∞ controller and existence of optimal controller. (Chinese. English and Chinese summaries)

Wen, Gui-Lin (*with* Xu, Daolin) Designing Hopf bifurcations into nonlinear discrete-time systems via feedback control. (English summary) **2005c:37092**

Wong, Hong (*with* Pan, Haizhou; de Queiroz, Marcio Santos; Kapila, Vikram) Adaptive learning control for spacecraft formation flying. (English summary) (*see* **2005c:93005**)

Wu, Bao Wei *see* **Liu, Li Li et al.**

Xi, Zairong *see* **Cheng, Dai Zhan et al., 2005b:93132**

Xiao, Ti-Jun (*with* Liang, Jin) Complete second order differential equations in Banach spaces with dynamic boundary conditions. (English summary) **2005f:34167**

Xie, L. *see* **Kunisch, Karl, 2005k:49104**

Xing, Zong Yi (*with* Hu, Wei Li; Jia, Li Min) Fuzzy predictive control based on T-S model. (Chinese. English and Chinese summaries)

Xu, Daolin *see* **Wen, Gui-Lin, 2005c:37092**

Xu, Shu-Fang *see* **Kuo, Yuen-Cheng et al., 2005b:93026**

Xu, Wenbo *see* **Cai, Chaohong et al.**

Xu, Zhen Yuan[2] *see* **Cai, Chaohong et al.**

Yakubovich, V. A. *see* **Proskurnikov, A. V., 2005e:93042**

Yang, Chi-Ching (*with* Chen, Hsin-Yuan) Closed-form solution of three-dimensional ideal proportional navigation. (English summary) (*see* **2005c:93005**)

Yang, T.-H. *see* **Peeta, S., 2005k:93155**

Yeniçerioğlu, Ali Fuat *see* **Agamaliyev, Agamali, 2005k:34283**

Ying, Hao A general technique for deriving analytical structure of fuzzy controllers using arbitrary trapezoidal input fuzzy sets and Zadeh AND operator. (English summary)

Zaballa, I. *see* **Roca Martinez, Alicia, 2005b:93028** *and* **Baragaña, I. et al., 2005k:93044**

Zečević, Aleksandar I. (*with* Šiljak, Dragoslav D.) Design of robust static output feedback for large-scale systems. (English summary) **2005g:93007**

Zelikin, M. I. (*with* Melnikov, N. B.) The Bellman function and optimal synthesis in control problems with nonsmooth constraints. **2005f:49086**

Zemlyakov, S. D. *see* **Rutkovskiĭ, V. Yu. et al., 2005d:70012**

Zhang, Hua Guang *see* **Huang, Wei**

Zhang, Qing Ling *see* **Dong, Xin Zhuang et al.**

Zhang, Zhu Qing *see* **Liu, Li Li et al.**

Zhao, Li Chun *see* **Dong, Xin Zhuang et al.**

Zhu, Lifei *see* **Li, Yong Kun et al., 2005d:34151**; **2005e:34214** *and* **2005k:39012**

Zykov, Vladimir (*with* Engel-Herbert, H.) Feedback-mediated control of spiral waves. (English summary) **2005g:35141**

Items listed otherwise than by author

Advances in dynamics and control ★ Advances in dynamics and control. **2005c:93005**

93B55 Pole and zero placement problems

Alonso-Quesada, S. *see* **Ibeas, Asier et al.**

Åström, K. J. *see* **Zhang, Yu et al.**

Bensoussan, David *see* **Kelemen, Matei, 2005d:93063**

Chen, Tie Jun *see* **Zhao, Xue Ping et al.**

Chen, Y. C. *see* **Wang, Jenn-Nan et al., 2005f:93077**

Cheng, Dai Zhan (*with* Guo, Lei[1]; Lin, Yuandan; Wang, Yuan[2]) A note on overshoot estimation in pole placements. (English summary)

Cherepova, T. I. (*with* Shubladze, A. M.) Systems, optimal with respect to the degree of stability, for the control of plants with an "unstable" numerator in the transfer function. (Russian. Russian summary) **2005f:93074**

Chou, So-Hsiang *see* **Wang, Jenn-Nan et al., 2005f:93077**

Duan, Guang Ren (*with* Liu, Guo-Ping) Complete parametric approach for eigenstructure assignment in a class of second-order linear systems. (English summary)

— Parametric eigenstructure assignment in second-order descriptor linear systems. (English summary) **2005f:93075**

Fu, Minyue Pole placement via static output feedback is NP-hard. (English summary) **2005b:93072**

Gawthrop, Peter J. (*with* Ronco, Eric) Predictive pole-placement control with linear models. (English summary)

Ge, Zhaoqiang (*with* Zhang, Beibei) Feedback and pole assignment of the second order singular distributed parameter control systems. (English summary) **2005e:93063**

Guo, Lei[1] *see* **Cheng, Dai Zhan et al.**

Ho, Daniel W. C. *see* **Li, Jun Min, 2005e:93065**

Hu, Sanqing (*with* Wang, Jun[3]) A gradient flow approach to on-line robust pole assignment for synthesizing output feedback control systems. (English summary)

Hu, Ting Shu (*with* Lin, Zongli; Lam, James) Unified gradient approach to performance optimization under a pole assignment constraint. (English summary) **2005f:93076**

Ibeas, Asier (*with* de la Sen, Manuel; Alonso-Quesada, S.) Stable multi-estimation model for single-input single-output discrete adaptive control systems. (English summary)

Jing, Yuan Wei *see* **Wang, Fu Zhong et al.** *and* **Liu, Man et al.**

Kelemen, Matei (*with* Bensoussan, David) On the design, robustness, implementation and use of quasi-linear feedback compensators. (English summary) **2005d:93063**

Kim, Meeyoung (*with* Rosenthal, Joachim; Wang, Xiaochang Alex) Pole placement and matrix extension problems: a common point of view. (English summary) **2005e:93064**

Lam, James *see* **Hu, Ting Shu et al., 2005f:93076**

Landau, Ioan Doré *see* **Procházka, Hynek**

Li, Jun Min (*with* Ho, Daniel W. C.) Efficient recursive adaptive pole placement algorithm. (English summary) **2005e:93065**

Li, Tie Shou *see* **Wang, Ping et al.**

Lin, Wen Wei (*with* Wang, Jenn-Nan) Partial pole assignment for the vibrating system with aerodynamic effect. (English summary) **2005h:93079**

— *see also* **Wang, Jenn-Nan et al., 2005f:93077**

Lin, Yuandan *see* **Cheng, Dai Zhan et al.**

Lin, Zongli *see* **Hu, Ting Shu et al., 2005f:93076**

Liu, Guo-Ping *see* **Duan, Guang Ren**

Liu, Li Li (*with* Wu, Bao Wei; Zhang, Zhu Qing) Pole placement of a singular system by output feedback. (Chinese. English and Chinese summaries)

Liu, Man (*with* Jing, Yuan Wei; Zhang, Si Ying) D-stable robust fault-tolerant control for delta operator systems. (Chinese. English and Chinese summaries)

Liu, Tian Zhang *see* **Zhao, Xue Ping et al.**

Procházka, Hynek (*with* Landau, Ioan Doré) Pole placement with sensitivity function shaping using 2nd order digital notch filters. (English summary)

Qian, Jiang[1] (*with* Xu, Shu-Fang) Robust partial eigenvalue assignment problem for the second-order system. (English summary)

Ronco, Eric *see* **Gawthrop, Peter J.**

Rosenthal, Joachim *see* **Kim, Meeyoung et al., 2005e:93064**

de la Sen, Manuel Pole placement controllers for linear time-delay systems with commensurate point delays. (English summary) **2005h:93080**

— Robust stable pole-placement-based adaptive control of continuous linear systems with two parametrical estimation schemes. (English summary) **2005d:93064**

— On pole-placement controllers for linear time-delay systems with commensurate point delays. **2005m:93067**

— *see also* **Ibeas, Asier et al.**

Shubladze, A. M. *see* **Cherepova, T. I., 2005f:93074**

Verschelde, Jan (*with* Wang, Yusong) Computing dynamic output feedback laws. (English summary) **2005g:93059**

Wang, Dianhui *see* **Yu, Runyi**

Wang, Fu Zhong (*with* Yao, Bo; Jing, Yuan Wei; Zhang, Si Ying) Reliable control with variance constraints for linear uncertain systems. (Chinese. English and Chinese summaries)

Wang, Jenn-Nan (*with* Chou, So-Hsiang; Chen, Y. C.; Lin, Wen Wei) Pole assignment for a vibrating system with aerodynamic effect. (English summary) **2005f:93077**

— *see also* **Lin, Wen Wei, 2005h:93079**

Wang, Jun[3] *see* **Hu, Sanqing**

Wang, Ping (*with* Li, Tie Shou; Wu, Hong Xin) Characteristic exponent assignment for linear periodic system. (Chinese. English and Chinese summaries)

Wang, Qing-Guo *see* **Zhang, Yu et al.**

Wang, Sheng-Guo Robust pole clustering in a good ride quality region of aircraft for matrices with structured uncertainties. (English summary)

Wang, Xiaochang Alex *see* **Kim, Meeyoung et al., 2005e:93064**

Wang, Yuan[2] *see* **Cheng, Dai Zhan et al.**

Wang, Yusong *see* **Verschelde, Jan, 2005g:93059**

Wu, Bao Wei *see* **Liu, Li Li et al.**

Wu, Hong Xin *see* **Wang, Ping et al.**

Xu, Shu-Fang *see* **Qian, Jiang**[1]

Yao, Bo *see* **Wang, Fu Zhong et al.**

Yu, Runyi (*with* Wang, Dianhui) Structural properties and poles assignability of LTI singular systems under output feedback. (English summary)

Zhang, Beibei *see* **Ge, Zhaoqiang, 2005e:93063**

Zhang, Si Ying *see* **Wang, Fu Zhong et al.** *and* **Liu, Man et al.**

Zhang, Yu (*with* Wang, Qing-Guo; Åström, K. J.) Dominant pole placement for multi-loop control systems. (English summary)

Zhang, Zhu Qing *see* **Liu, Li Li et al.**

Zhao, Xue Ping (*with* Chen, Tie Jun; Liu, Tian Zhang) A pole placement problem for a single input discrete system. (Chinese. English and Chinese summaries)

Items with secondary classifications in 93B55

Amparan, A. (*with* Marcaida, S.; Zaballa, I.) Assignment of infinite structure to an open-loop system. (English summary) **2005b:93073**

— (*with* Marcaida, S.; Zaballa, I.) Wiener-Hopf factorization indices and infinite structure of rational matrices. (English summary) **2005g:15022**

Begovich, Ofelia *see* **Ruiz-León, José Javier et al., 2005m:93082**

Benzaouia, Abdellah *see* **Mesquine, Fouad et al.**

Carriegos, Miguel V. (*with* García-Planas, Ma. Isabel) On matrix inverses modulo a subspace. (English summary) **2005d:15008**

Chen, Shi Hua[3] *see* **Wang, Feng et al., 2005h:93146**

De Doná, José A. *see* **Quevedo, Daniel E. et al., 2005f:49083**

Engelborghs, Koen *see* **Michiels, Wim et al., 2005k:93110**

Gaĭvoronskiĭ, S. A. *see* **Vadutov, O. S., 2005g:93060**

García-Planas, Ma. Isabel *see* **Carriegos, Miguel V., 2005d:15008**

Goodwin, Graham C. *see* **Quevedo, Daniel E. et al., 2005f:49083**

Ho, Daniel W. C. *see* **Wang, Zi Dong**[1], **2005m:93050**

Lasserre, Jean-Bernard Characterizing polynomials with roots in a semialgebraic set. (English summary) **2005a:26010**

Marcaida, S. (*with* Zaballa, I.) Invariant factors, Wiener-Hopf factorization indices, and invariant factors at infinity of rational matrices. (English summary) **2005k:15027**

— *see also* **Amparan, A. et al., 2005b:93073** *and* **2005g:15022**

Mesquine, Fouad (*with* Tadeo, Fernando; Benzaouia, Abdellah) Regulator problem for linear systems with constraints on control and its increment or rate. (English summary)

Michiels, Wim (*with* Engelborghs, Koen; Vansevenant, P.; Roose, Dirk) Continuous pole placement for delay equations. (English summary) **2005k:93110**

— *see also* **Niculescu, Silviu-Iulian, 2005a:93140**

Niculescu, Silviu-Iulian (*with* Michiels, Wim) Stabilizing a chain of integrators using multiple delays. (English summary) **2005a:93140**
Orozco, Jorge Luis *see* **Ruiz-León, José Javier et al., 2005m:93082**
Quevedo, Daniel E. (*with* Goodwin, Graham C.; De Doná, José A.) Finite constraint set receding horizon quadratic control. (English summary) **2005f:49083**
Rogers, Eric *see* **Wood, Jeffrey James et al., 2005m:93035**
Roose, Dirk *see* **Michiels, Wim et al., 2005k:93110**
Ruiz-León, José Javier (*with* Orozco, Jorge Luis; Begovich, Ofelia) Closed-loop structure of decouplable linear multivariable systems. (English summary) **2005m:93082**
de la Sen, Manuel Adaptive control of time-varying systems with time-varying delays. (English summary) **2005f:93094**
Sule, V. R. *see* **Wood, Jeffrey James et al., 2005m:93035**
Tadeo, Fernando *see* **Mesquine, Fouad et al.**
Uetake, Yoichi Some local properties of spectrum of linear dynamical systems in Hilbert space. (English summary) **2005k:93114**
Vadutov, O. S. (*with* Gaĭvoronskiĭ, S. A.) Solution of the placement of poles of a system by the D-partition method. (Russian. Russian summary) **2005g:93060**
Vansevenant, P. *see* **Michiels, Wim et al., 2005k:93110**
Wang, Chang Ping[2] *see* **Wang, Feng et al., 2005h:93146**
Wang, Feng (*with* Chen, Shi Hua[3]; Yu, Minghai; Wang, Chang Ping[2]) Normal form and synchronization of strict-feedback chaotic systems. (English summary) **2005h:93146**
Wang, Zi Dong[1] (*with* Ho, Daniel W. C.) Output feedback robust H_∞ control with D-stability and variance constraints: parametrization approach. (English summary) **2005m:93050**
Wen, Gui-Lin (*with* Xu, Daolin) Implicit criteria of eigenvalue assignment and transversality for bifurcation control in four-dimensional maps. (English summary) **2005g:37098**
Wood, Jeffrey James (*with* Sule, V. R.; Rogers, Eric) Causal and stable input/output structures on multidimensional behaviors. (English summary) **2005m:93035**
Xu, Daolin *see* **Wen, Gui-Lin, 2005g:37098**
Yu, Minghai *see* **Wang, Feng et al., 2005h:93146**
Zaballa, I. *see* **Amparan, A. et al., 2005b:93073**; **2005g:15022** *and* **Marcaida, S., 2005k:15027**

93B60 Eigenvalue problems

Brown, Lyndon J. (*with* Zhang, Qing[7]) Periodic disturbance cancellation with uncertain frequency. (English summary)
Chen, Ben M. *see* **Liu, Xinmin et al.**
Duan, Guang Ren Two parametric approaches for eigenstructure assignment in second-order linear systems. (English summary) **2005f:93078**
— *see also* **Wu, Ai Guo**
Gaĭvoronskiĭ, S. A. *see* **Vadutov, O. S., 2005g:93060**
Grigoryan, F. P. On the construction of a control with the desired spectrum in automatic control systems. (Russian. Russian and Armenian summaries) **2005m:93068**
Gryazina, E. N. On D-partition theory. (Russian. Russian summary) **2005j:93035**
Lin, Zongli *see* **Liu, Xinmin et al.**
Liu, Xinmin (*with* Chen, Ben M.; Lin, Zongli) On the problem of general structural assignments of linear systems through sensor/actuator selection. (English summary)
Nikolaev, Yu. P. Analysis of the geometry of the D-partition of a two-dimensional plane of arbitrary coefficients of the characteristic polynomial of a discrete system. (Russian. Russian summary) **2005j:93036**
Srivastava, R. K. (*with* Srivastava, Rajeev) Eigen parameter perturbation and application to linear dynamic system modifications. (English summary) **2005d:93065**
Srivastava, Rajeev *see* **Srivastava, R. K., 2005d:93065**
Vadutov, O. S. (*with* Gaĭvoronskiĭ, S. A.) Solution of the placement of poles of a system by the D-partition method. (Russian. Russian summary) **2005g:93060**
Wu, Ai Guo (*with* Duan, Guang Ren) Robust state feedback eigenstructure assignment. (Chinese. English and Chinese summaries)
Zhang, Qing[7] *see* **Brown, Lyndon J.**

Items with secondary classifications in 93B60

Araki, Mituhiko *see* **Zhou, Jun[2] et al., 2005k:93047**
Arkov, V. Yu. (*with* Kulikov, G. G.; Breĭkin, T. V.) Optimal spectral resolution in system identification. (English summary)
Bai, Er-Wei (*with* Wu, Ying-Qing) Limiting zero distribution of sampled systems. (English summary)
Breĭkin, T. V. *see* **Arkov, V. Yu. et al.**
Bultheel, Adhemar (*with* Van Barel, Marc; Van gucht, P.) Orthogonal basis functions in discrete least-squares rational approximation. (English summary) **2005a:93043**
Cao, Ji Chao *see* **Jia, Zhong Xiao**
Chen, Shinn-Horng Regional eigenvalue-clustering robustness of linear output feedback systems with both time-varying structured and unstructured uncertainties as well as nonlinear actuators. (English summary) **2005d:93104**
Chu, Delin On the computation of the infimum in H_∞-optimization. (English summary)
Gao, Qiang[1] *see* **Wu, Zhi Gang[1]**
Grigoryan, F. P. Synthesis of controls with the desired spectrum in an n-order scalar equation. (Russian. Russian and Armenian summaries) **2005m:93057**
Hagiwara, Tomomichi *see* **Zhou, Jun[2] et al., 2005k:93047**
Hoover, David N. (*with* Longchamp, Roland; Rosenthal, Joachim) Two-degree-of-freedom l_2-optimal tracking with preview. (English summary)
Ishitobi, Mitsuaki (*with* Kashiwamoto, Kouta) Nyquist stability criterion of intrinsic zeros for continuous-time pure imaginary zeros. (English summary)
Jeltsema, Dimitri (*with* Ortega, Romeo; Scherpen, Jacquelien M. A.) An energy-balancing perspective of interconnection and damping assignment control of nonlinear systems. (English summary)
Jia, Zhong Xiao (*with* Cao, Ji Chao) New algorithms for partial eigenvalue assignment in a control system. (Chinese. English and Chinese summaries)
Jugo, J. *see* **de la Sen, Manuel**
Kashiwamoto, Kouta *see* **Ishitobi, Mitsuaki**
Kim, Meeyoung (*with* Rosenthal, Joachim; Wang, Xiaochang Alex) Pole placement and matrix extension problems: a common point of view. (English summary) **2005e:93064**
Kulikov, G. G. *see* **Arkov, V. Yu. et al.**
Lee, Chien-Hua Further results on the measurement of solution bounds of the generalized Lyapunov equations. (English summary) **2005h:93118**
Li, Tie Shou *see* **Wang, Ping et al.**
Loiseau, Jean Jacques *see* **Mondié, Sabine, 2005e:93079**
Longchamp, Roland *see* **Hoover, David N. et al.**
Malabre, Michel *see* **Rabah, Rabah, 2005e:93081**
Mondié, Sabine (*with* Loiseau, Jean Jacques) Finite eigenstructure assignment for input delay systems. (English summary) **2005e:93079**
Ortega, Romeo *see* **Jeltsema, Dimitri et al.**
Rabah, Rabah (*with* Malabre, Michel) Weak structure at infinity and row-by-row decoupling for linear delay systems. (English summary) **2005e:93081**
Rosenthal, Joachim *see* **Kim, Meeyoung et al., 2005e:93064** *and* **Hoover, David N. et al.**
Scherpen, Jacquelien M. A. *see* **Jeltsema, Dimitri et al.**
de la Sen, Manuel (*with* Jugo, J.) On limit characteristic zeros of linear-time invariant systems with point delays. (English summary)
Sorensen, D. C. Passivity preserving model reduction via interpolation of spectral zeros. (English summary) **2005i:93021**
Udwadia, Firdaus E. Identification of stiffness matrices of structural and mechanical systems from modal data. (English summary) (*see* **2005c:93005**)
Uetake, Yoichi Some local properties of spectrum of linear dynamical systems in Hilbert space. (English summary) **2005k:93114**
Van Barel, Marc *see* **Bultheel, Adhemar et al., 2005a:93043**
Van Dooren, Paul *see* **Varga, Andras, 2005a:93067**
Van gucht, P. *see* **Bultheel, Adhemar et al., 2005a:93043**
Varga, Andras (*with* Van Dooren, Paul) Computing the zeros of periodic descriptor systems. (English summary) **2005a:93067**
Wang, Ping (*with* Li, Tie Shou; Wu, Hong Xin) Characteristic exponent assignment for linear periodic system. (Chinese. English and Chinese summaries)
Wang, Xiaochang Alex *see* **Kim, Meeyoung et al., 2005e:93064**
Wu, Hong Xin *see* **Wang, Ping et al.**
Wu, Ying-Qing *see* **Bai, Er-Wei**
Wu, Zhi Gang[1] (*with* Gao, Qiang[1]) Minimum H_∞ norm estimation of interval systems by an eigenvalue perturbation method. (Chinese. English and Chinese summaries)
Zhou, Jun[2] (*with* Hagiwara, Tomomichi; Araki, Mituhiko) Spectral characteristics and eigenvalues computation of the harmonic state operators in continuous-time periodic systems. (English summary) **2005k:93047**

93B99 None of the above, but in this section

Items with secondary classifications in 93B99

Gohberg, Israel (*with* Kaashoek, Marinus A.; van Schagen, Freek) On inversion of finite Toeplitz matrices with elements in an algebraic ring. (English summary) **2005b:15007**
Kaashoek, Marinus A. *see* **Gohberg, Israel et al., 2005b:15007**
van Schagen, Freek *see* **Gohberg, Israel et al., 2005b:15007**

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93C05 Linear systems

Ait Rami, M. *see* **Benzaouia, Abdellah et al., 2005c:93039**
Altafini, Claudio Controllability properties for finite dimensional quantum Markovian master equations. (English summary) **2005d:93066**
Amparan, A. (*with* Marcaida, S.; Zaballa, I.) Assignment of infinite structure to an open-loop system. (English summary) **2005b:93073**
Baragaña, I. (*with* Fernández Gonzalez, Victoria; Zaballa, I.) Hermite indices and equivalence relations. (English summary) **2005b:93074**
Benlemkadem, A. *see* **Mesquine, Fouad et al., 2005e:93066**
Benzaouia, Abdellah (*with* Ait Rami, M.; El Faiz, S.) Stabilization of linear systems with saturation: a Sylvester equation approach. (English summary) **2005c:93039**
— *see also* **Mesquine, Fouad et al., 2005e:93066**
(Bobtsov, A. A.) *see* **Xu, Sheng Yuan**
Bronnikov, A. M. *see* **Bukov, V. N., 2005j:93037**
Bukov, V. N. (*with* Bronnikov, A. M.) Output invariance conditions for linear systems. (Russian. Russian summary) **2005j:93037**
Castelan, Eugênio B. (*with* da Silva, Vilemar Gomes) On the solution of a Sylvester equation appearing in descriptor systems control theory. (English summary) **2005g:93061**
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Clotet, Josep (*with* García-Planas, Ma. Isabel) Second order generalized linear systems. A geometric approach. (English summary)
(Cockburn, Juan C.) *see* **Hecker, Simon, 2005j:93038**
Commault, Christian A simple graph theoretic characterization of reachability for positive linear systems. (English summary) **2005i:93048**
— *see also* **Dion, Jean-Michel et al., 2005k:93096**
Dion, Jean-Michel (*with* Commault, Christian; van der Woude, Jacob) Generic properties and control of linear structured systems: a survey. (English summary) **2005k:93096**
Dong, Xin Zhuang (*with* Zhang, Qing Ling; Zhao, Li Chun) Passive control of linear singular systems. (Chinese. English and Chinese summaries)
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Fang, Haijun (*with* Lin, Zongli; Hu, Ting Shu) Analysis of linear systems in the presence of actuator saturation and $\mathscr{L}_2$-disturbances. (English summary)
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Konstantinov, Mikhail M. (*with* Petkov, Petko Khr.) ★ Пертурбационен анализ в линейната алгебра и теория на управлението. (Bulgarian) [Perturbation analysis in linear algebra and control theory] **2005h:93081**
— (*with* Mehrmann, Volker; Petkov, Petko Khr.; Gu, Da-Wei) Perturbation theory for general matrix equations. (English summary)
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Lin, Zongli *see* **Fang, Haijun et al.**
(Mahmoud, Magdi S.) *see* **Xu, Sheng Yuan**
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Mertzios, Basil G. Forms of the Cayley-Hamilton theorem for generalized systems. (English summary) **2005a:93074**
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Petkov, Petko Khr. *see* **Konstantinov, Mikhail M. et al., 2005h:93081**
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— Bounded inputs and the representation of linear system maps. (English summary) **2005m:93070**
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Zhao, Li Chun *see* **Dong, Xin Zhuang et al.**

Items with secondary classifications in 93C05

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— *see also* **Akhtar, Suhail et al., 2005f:93144**
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Chen, Ben M. (*with* Lin, Zongli; Shamash, Yacov) ★ Linear systems theory. **2005b:93001**
— *see also* **Liu, Xinmin et al.**
Chen, Shin Ju (*with* Lin, Jong Lick) Robust $\mathscr{D}$-stability of discrete and continuous time interval systems. (English summary) **2005b:93124**
— *see also* **Lin, Jong Lick et al., 2005b:93068**
Chen, Shinn-Horng Regional eigenvalue-clustering robustness of linear output feedback systems with both time-varying structured and unstructured uncertainties as well as nonlinear actuators. (English summary) **2005d:93104**
— (*with* Chou, Jyh-Horng; Zheng, Liang-An) Stability robustness of linear output feedback systems with both time-varying structured and unstructured parameter uncertainties as well as delayed perturbations. (English summary) **2005h:93122**
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Chen, Yue Peng (*with* Zhang, Qing Ling; Zhai, Ding; Xu, Tian Qun) Reliable guaranteed cost control of descriptor systems. (Chinese. English and Chinese summaries)
Cheng, Dai Zhan (*with* Guo, Lei[1]; Lin, Yuandan; Wang, Yuan[2]) A note on overshoot estimation in pole placements. (English summary)
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— (*with* Rusanov, V. A.) On the problem of constructing strong differential control models with a minimal operator norm. I. (Russian. English and Ukrainian summaries) **2005f:93039**
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Dong, Xin Zhuang (*with* Zhang, Qing Ling) Input-output energy decoupling of linear singular systems. (Chinese. English and Chinese summaries)
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uncertainty. (English summary)

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Fatouros, Stavros (*with* Karcanias, Nicos) Resultant properties of gcd of many polynomials and a factorization representation of gcd. (English summary) **2005b:13048**

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Gawthrop, Peter J. (*with* Ronco, Eric) Predictive pole-placement control with linear models. (English summary)

Goman, M. G. (*with* Demenkov, M. N.) Stabilization of unstable aircraft dynamics under control constraints. (English summary) **2005f:93124**

Grimm, Gene (*with* Teel, Andrew R.; Zaccarian, Luca) Robust linear anti-windup synthesis for recovery of unconstrained performance. (English summary) **2005b:93065**

Gryazina, E. N. On D-partition theory. (Russian. Russian summary) **2005j:93035**

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— (*with* Lin, Zongli) Controlled invariance of ellipsoids: linear vs. nonlinear feedback. (English summary) **2005f:93003**

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Jiang, Xie Fu (*with* Xu, Wen Li[1]) Output-feedback adaptive control for delay parameters in time-delay system. (Chinese. English and Chinese summaries)

— (*with* Xu, Wen Li[1]) Robust exponential stabilization for linearly uncertain time-delay systems. (Chinese. English and Chinese summaries)

Johansson, Karl Henrik Interaction bounds in multivariable control systems. (English summary)

Kaczorek, Tadeusz Computation of minimal realizations for compartmental linear systems. (English summary)

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Kim, Ki Baek Design of receding horizon controls for constrained time-varying systems. (English summary)

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Korovin, Sergeĭ Konstantinovich (*with* Il'in, A. V.; Fomichev, V. V.; Khlavenka, A.) Asymptotic observers of the state of uncertain vector linear systems. (Russian) **2005h:93024**

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Koumboulis, F. N. (*with* Koussiouris, T. G.; Skarpetis, M. G.) Robust Morgan's problem. (English summary) **2005a:93128**

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Krishchenko, A. P. (*with* Panfilov, D. Yu.; Tkachev, S. B.) Construction of minimal-phase affine systems. (Russian. Russian summary) **2005f:49061**

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Li, Chun Wen *see* **Jiang, Pei Gang[2], 2005e:93142**

Li, Xiu Ying[1] (*with* Xing, Wei) Robust H_∞ control of uncertain singular systems. (Chinese. English and Chinese summaries)

Lin, Chong (*with* Wang, Qing-Guo; Lee, Tong Heng; Loh, Ai Poh; Kwek, Keng Huat) Stability criteria and bounds for limit cycles of relay feedback systems. (English summary) **2005a:93137**

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Litsyn, Elena (*with* Myasnikova, Marina; Nepomnyashchikh, Yurii V.; Ponosov, A. V.) Efficient criteria for the stabilization of planar linear systems by hybrid feedback controls. **2005a:93138**

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Myasnikova, Marina *see* **Litsyn, Elena et al., 2005a:93138**

Nazin, Alexander V. (*with* Nazin, S. A.; Polyak, Boris Teodorovich) On the convergence of outer ellipsoidal approximations of attainability domains of linear discrete dynamical systems. (Russian. Russian summary) **2005f:93005**

Nazin, S. A. *see* **Nazin, Alexander V. et al., 2005f:93005**

Nepomnyashchikh, Yurii V. *see* **Litsyn, Elena et al., 2005a:93138**

Nespirnyĭ, V. N. Stabilization of three-dimensional linear dynamical systems by means of a control with hybrid feedback. (Russian. Russian summary) **2005k:93185**

Niculescu, Silviu-Iulian *see* **Michiels, Wim et al., 2005e:93132**

Ocone, Daniel *see* **Kuusela, Pirkko et al., 2005i:93037**

de Oliveira, Maurício C. Investigating duality on stability conditions. (English summary) **2005a:93122**

de Oliveira, P. J. (*with* Oliveira, Ricardo C. L. F.; Leite, V. J. S.; Montagner, Vinicius F.; Peres, Pedro L. D.) $\mathscr{H}_2$ guaranteed cost computation by means of parameter dependent Lyapunov functions. (English summary) **2005b:93052**

Oliveira, Ricardo C. L. F. (*with* Peres, Pedro L. D.) Stability of polytopes of matrices via affine parameter-dependent Lyapunov functions: asymptotically exact LMI conditions. (English summary) **2005m:93116**
— *see also* **de Oliveira, P. J. et al., 2005b:93052**
Oloomi, H. (*with* Shafai, B.) Reduced-order controller design with low sensitivity to small feedback delays. (English summary)
Osetinskiĭ, N. I. On an invariant analysis of generalized linear dynamical systems. (Russian. Russian summary) **2005d:93036**
Otsuka, Naohisa A note on generalized invariant subspaces for infinite-dimensional systems. (English summary) **2005i:93052**
Pandolfi, Luciano *see* **Fagnani, Fabio et al., 2005b:93044**
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Polyak, Boris Teodorovich Generalized superstability in control theory. (Russian. Russian summary) **2005j:93057**
— *see also* **Nazin, Alexander V. et al., 2005f:93005**
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— *see also* **Makarov, E. K., 2005k:93018**
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— (*with* Stoorvogel, Anton A.; Shi, Guoyong; Sannuti, Peddapullaiah) Semi-global stabilization of linear systems subject to non-right invertible constraints. (English summary) **2005d:93117**
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Savov, Svetoslav (*with* Popchev, Ivan) New upper estimates for the solution of the continuous algebraic Lyapunov equation. (English summary)
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Shorten, Robert N. (*with* Curran, Paul F.; Wulff, Kai) On time-domain multiplier criteria for single-input single-output systems. (English summary) **2005e:93139**
Shtessel′, Yu. B. (*with* Zinober, Alan S. I.; Shkolnikov, Ilya A.) Sliding mode control of boost and buck-boost power converters using method of stable system centre. (English summary)
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Su, Xiaoming (*with* Zhang, Qing Ling; Shi, Hongyan) Infinite controllability and infinite observability of generalized dynamical systems. (English summary) **2005b:93022**
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Tsai, Jason Sheng Hong (*with* Lu, Chien-Yu; Su, Te-Jen) Robust Kalman filtering for delay-dependent interval systems. (English summary) **2005e:93156**
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Wang, Dejin Delay-dependent observer-based stabilizing controller design for linear multiple state-delayed systems. (English summary)
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Wang, Jing Cheng *see* **Dai, Dan**
Wang, Jing[12] (*with* Liu, Wan Quan; Zhang, Qing Ling; Xin, Xin) $\mathscr{H}_\infty$ suboptimal model reduction for singular systems. (English summary) **2005g:93022**
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Wo, Song Lin (*with* Zou, Yun) Decentralized robust stabilization for singular large scale systems with parameter uncertainty. (Chinese. English and Chinese summaries)
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Zhang, Li Qian[2] (*with* Huang, Biao) Robust model predictive control of singular systems. (English summary) **2005c:93037**
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Zhang, Xu[1] Global exact controllability of semi-linear time reversible systems in infinite dimensional space. (English summary) (*see* **2005b:00020**)
Zheng, Liang-An *see* **Chen, Shinn-Horng et al., 2005h:93122**
Zhivoglyadov, Peter V. (*with* Middleton, Richard H.) Networked control design for linear systems. (English summary)
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— (*with* Lam, James; Feng, Gang[1]) New characterization of positive realness and control of a class of uncertain polytopic discrete-time systems, (English summary) **2005k:93127**
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Zuber, I. E. Terminal control for nonstationary discrete systems. (English summary) **2005f:93110**
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Albertini, Francesca (*with* D'Alessandro, Domenico) Control of the evolution of Heisenberg spin systems. (English summary) **2005m:93071**

Angulo, Fabiola (*with* di Bernardo, Mario; Fossas i Colet, Enric; Olivar, Gerard) Feedback control of limit cycles: a switching control strategy based on nonsmooth bifurcation theory. (English summary) **2005m:93072**

Aranda-Bricaire, Eduardo (*with* Kotta, Ülle) A geometric solution to the dynamic disturbance decoupling for discrete-time nonlinear systems. (English summary) **2005a:93076**

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— (*with* Xu, Zhen Yuan[2]; Xu, Wenbo) Converting chaos into periodic motion by state feedback control. (English summary)

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Colonius, Fritz (*with* Kliemann, Wolfgang) Bifurcations of control systems: a view from control flows. **2005e:93068**

Costa, Eduardo F. (*with* Oliveira, Vilma A.) Gain scheduled controllers for dynamic systems using sector nonlinearities. (English summary)

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De Doná, José A. (*with* Goodwin, Graham C.; Moheimani, S. O. Reza) Combining switching, over-saturation and scaling to optimise control performance in the presence of model uncertainty and input saturation. (English summary)

Ding, Bao Cang (*with* Xi, Yu Geng) Design and analysis of the domain of attraction for generalized predictive control with input nonlinearity. (Chinese. English and Chinese summaries)

Duan, Zhi-Sheng (*with* Wang, Jin-Zhi; Huang, Lin[1]) Input and output coupled nonlinear systems. (English summary)

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Feng, Bin *see* **Cai, Chaohong et al.**

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Gayer, T. Control sets and their boundaries under parameter variation. (English summary) **2005g:93063**

Gonçalves, Jorge M. (*with* Megretskiĭ, A. V.; Dahleh, Munther A.) Global analysis of piecewise linear systems using impact maps and surface Lyapunov functions. (English summary) **2005f:93081**

Goodwin, Graham C. *see* **De Doná, José A. et al.**

Grasse, Kevin A. Lifting of trajectories of control systems related by smooth mappings. (English summary) **2005j:93039**

Guay, Martin (*with* Zhang, Tao[1]) Adaptive extremum seeking control of nonlinear dynamic systems with parametric uncertainties. (English summary)

Hamzi, Boumediene (*with* Kang, Wei; Barbot, Jean-Pierre) Analysis and control of Hopf bifurcations. (English summary) **2005e:93069**

He, Ying Jie[1] (*with* Chen, Ben M.; Wu, Chao) Composite nonlinear control with state and measurement feedback for general multivariable systems with input saturation. (English summary) **2005k:93099**

Hill, Desmond L. An extension of a method of Yagasaki and Uozumi. (English summary)

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Huang, Lin[1] *see* **Duan, Zhi-Sheng et al.**

Isidori, Alberto *see* **Byrnes, Christopher I., 2005d:93068**

Iyer, Ram Venkataraman (*with* Tan, Xiaobo; Krishnaprasad, P. S.) Approximate inversion of the Preisach hysteresis operator with application to control of smart actuators. (English summary) **2005m:93073**

Ji, J. C. Dynamics of a piecewise linear system subjected to a saturation constraint. (English summary)

Jiang, Zhong-Ping *see* **Khac Duc Do et al., 2005e:93070**

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Khac Duc Do (*with* Jiang, Zhong-Ping; Pan, Jie[1]) Robust adaptive path following of underactuated ships. (English summary)

— (*with* Jiang, Zhong-Ping; Pan, Jie[1]) Simultaneous tracking and stabilization of mobile robots: an adaptive approach. (English summary) **2005e:93070**

Kliemann, Wolfgang *see* **Colonius, Fritz, 2005e:93068**

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Lai, Dejian (*with* Chen, Guanrong) Chaotification of discrete-time dynamical systems: an extension of the Chen-Lai algorithm. (English summary)

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Pan, Jie[1] *see* **Khac Duc Do et al., 2005e:93070**

Pappas, George J. *see* **Tabuada, Paulo, 2005k:93102**

Park, Juhyun[1] (*with* Choi, Kwonhue) Guaranteed cost control for uncertain nonlinear neutral systems via memory state feedback. (English summary)

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Rojo, Alberto G. *see* **Bloch, Anthony M., 2005k:93097**

Saha, L. M. (*with* Erjaee, G. H.; Budhraja, M.) Controlling chaos in 2-dimensional systems. (English summary)

van der Schaft, A. J. Equivalence of dynamical systems by bisimulation. (English summary) **2005j:93040**

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Tabuada, Paulo (*with* Pappas, George J.) Abstractions of Hamiltonian control systems. (English summary) **2005k:93102**

Tan, Xiaobo *see* **Iyer, Ram Venkataraman et al., 2005m:93073**

Tøndel, Petter (*with* Johansen, Tor Arne; Bemporad, Alberto) Evaluation of piecewise affine control via binary search tree. (English summary)

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Wang, Jin-Zhi *see* **Duan, Zhi-Sheng et al.**

Wang, Wen Tao[2] (*with* Liu, Xiao Ping[2]; Zhao, Jun[2]) Controlled invariant distributions of nonlinear singular systems and their invariant properties. (Chinese. English and Chinese summaries) **2005h:93084**

Wu, Chao *see* **He, Ying Jie[1] et al., 2005k:93099**

Xi, Yu Geng *see* **Ding, Bao Cang**

Xu, Wenbo *see* **Cai, Chaohong et al.**

Xu, Zhen Yuan[2] *see* **Cai, Chaohong et al.**

Yang, Bo[7] (*with* Lin, Wei[2]) Homogeneous observers, iterative design, and global stabilization of high-order nonlinear systems by smooth output feedback. (English summary) **2005d:93069**

Yang, Ling[2] *see* **Yu, Xinghuo et al.**

Yang, Qi Chang *see* **Zhao, Li Chun et al.**

Yang, Ruoting (*with* Hong, Yiguang; Qin, Huashu; Chen, Guanrong) Anticontrol of chaos for dynamic systems in p-normal form: a homogeneity-based approach. (English summary)

Yu, Ge *see* **Zhang, Ying Wei et al.**

Yu, Xinghuo (*with* Yang, Ling[2]; Chen, Guanrong) Discretization behavior analysis of a switching control system from a unified mathematical approach. (English summary)

Zhang, Qing Ling *see* **Zhao, Li Chun et al.**

Zhang, Tao[1] *see* **Guay, Martin**

Zhang, Ying Wei (*with* Wang, Fu Li; Yu, Ge) Fault accommodation of a class of nonlinear systems using a learning approach. (Chinese. English and Chinese summaries)

Zhao, Jun[2] *see* **Wang, Wen Tao[2] et al., 2005h:93084**

Zhao, Li Chun (*with* Zhang, Qing Ling; Yang, Qi Chang) Induction control of a three-species model with partial harm relations. (Chinese. English and Chinese summaries)

Items with secondary classifications in 93C10

Al'brekht, È. G. On the identification of mathematical models of nonlinear processes. (Russian. Russian summary) **2005a:93041**

Ammar, Sabeur (*with* Vivalda, Jean-Claude) On the preservation of observability under sampling. (English summary) **2005b:93024**

Anderson, Brian D. O. *see* **Su, Steven W. et al.**

Aneke, Nnaedozie P. I. *see* **Lizárraga, David A. et al., 2005e:93143**

Angeli, David (*with* De Leenheer, Patrick; Sontag, Eduardo D.) A small-gain theorem for almost global convergence of monotone systems. (English summary) **2005b:93140**

— *see also* **Hespanha, João P. et al., 2005j:93053**

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Back, Juhoon (*with* Seo, Jin Heon) Immersion of non-linear systems into linear systems up to output injection: characteristic equation approach. (English summary) **2005c:93014**

Bai, Er-Wei Decoupling the linear and nonlinear parts in Hammerstein model identification. (English summary)

Balthazar, José Manoel *see* **Rafikov, Marat, 2005h:49090**

Banks, H. T. Incorporation of uncertainty in inverse problems. (English summary) **2005f:35309**

Baras, John S. *see* **Tan, Xiaobo, 2005m:93042**

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Battilotti, Stefano Generalized dilations and the stabilization of uncertain systems via measurement feedback. (English summary) **2005c:93077**

Beta, C. (*with* Mikhaĭlov, A. S.) Controlling spatiotemporal chaos in oscillatory reaction-diffusion systems by time-delay autosynchronization. (English summary)
Bhattacharjee, Jayanta K. *see* **Nandi, Amitabha et al., 2005m:37087**
Bhoir, Nilesh (*with* Singh, Sahjendra N.) Output feedback modular adaptive control of a nonlinear prototypical wing section. (English summary) **2005f:93089**
Bi, Wei Ping (*with* Mu, Xiao Wu; Sun, Yuqiang) Disturbance attenuation for uncertain nonlinear cascaded systems. (English summary) **2005d:93058**
Bloch, Gerard *see* **Millerioux, Gilles et al., 2005i:93071**
Bobtsov, A. A. Synthesis of a control law for the stabilization of a nonlinear system, based on measurements of the output. (Russian. Russian summary) **2005f:93134**
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Bolkvadze, G. R. The Hammerstein-Wiener model in problems of the identification of stochastic systems. (Russian. Russian summary) **2005f:93170**
— A method for the dispersion statistical linearization of nonlinear stochastic systems of Hammerstein class. (Russian. Russian summary) **2005g:93115**
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— (*with* Celani, Fabio; Isidori, Alberto) Omega-limit sets of a class of nonlinear systems that are semiglobally practically stabilized. (English summary) **2005k:93170**
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Chen, Guanrong *see* **Čelikovský, Sergej, 2005g:93090**
Chen, Lingji (*with* Narendra, Kumpati S.) Nonlinear adaptive control using neural networks and multiple models. (English summary)
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— *see also* **Huang, Jie[1], 2005h:93150**
Cheng, Dai Zhan (*with* Xi, Zairong; Feng, Gang[1]) Stabilization of general nonlinear control systems via center manifold and approximation techniques. (English summary) **2005b:93132**
— Controllability of switched bilinear systems. (English summary) **2005i:93012**
— *see also* **Wang, Yu Zhen et al.**
Cheng, Sui Sun (*with* Tian, Chuan Jun; Gil', Michael Iosif) Synchronization in a discrete circular network. (English summary) (*see* **2005d:39001**)
Ciraolo, Guido *see* **Vittot, Michel et al., 2005g:37121**
Colaneri, P. (*with* Kučera, V.; Longhi, S.) Polynomial approach to the control of SISO periodic systems subject to input constraint. (English summary)
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De Koning, Willem L. Digital optimal reduced-order control of pulse-width-modulated switched linear systems. (English summary)
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— (*with* Sakurama, Kazunori; Sugie, Toshiharu) Trajectory tracking control of port-controlled Hamiltonian systems via generalized canonical transformations. (English summary) **2005k:93176**
— *see also* **Lopezlena Estrada, R. et al., 2005e:93027**
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— (*with* Scherpen, Jacquelien M. A.) Hankel singular value functions from Schmidt pairs for nonlinear input-output systems. (English summary) **2005g:93025**
— *see also* **Fujimoto, Kenji et al.**
Grüne, Lars Robust asymptotic controllability under time-varying perturbations. (English summary) **2005f:93012**
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— (*with* Hui, Qing; Chellaboina, Vijaya-Sekhar; Nersesov, Sergey G.) Vector dissipativity theory for discrete-time large-scale nonlinear dynamical systems. **2005a:93008**
— (*with* Chellaboina, Vijaya-Sekhar; Hui, Qing; Nersesov, Sergey G.) Vector dissipativity theory for large-scale impulsive dynamical systems. (English summary) **2005h:93117**
— (*with* Chellaboina, Vijaya-Sekhar) Stability and dissipativity theory for nonnegative dynamical systems: a unified analysis framework for biological and physiological systems. (English summary) **2005g:93086**
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— *see also* **Černý, Václav, 2005m:93021**
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— *see also* **Chen, Zhiyong, 2005k:93200** *and* **Chen, Peng Nian et al.**
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Ibrir, Salim (*with* Xie, Wen Fang[1]; Su, Chun-Yi) Observer-based control of discrete-time Lipschitzian non-linear systems: application to one-link flexible joint robot. (English summary)

Iggidr, A. (*with* Sallet, G.) On the stability of nonautonomous systems. (English summary)
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— (*with* Jiang, Zhong-Ping) Robust disturbance attenuation of nonlinear systems using output feedback and state-dependent scaling. (English summary)
— Nonlinear generalization of scaled $\mathscr{H}^\infty$ control: global robustification against nonlinearly bounded uncertainties. (English summary) **2005f:93051**
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Ji, Xing Min (*with* Yu, Xian Sheng; Wang, Hong[5]) Nonlinear control systems on a pseudo-sphere. (Chinese. English and Chinese summaries)
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— *see also* **Ito, Hiroshi[1]**
Johansson, Andreas (*with* Medvedev, Aleksandr Vladislavovich) An observer for systems with nonlinear output map. (English summary)
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Krastanov, Mikhail I. A sufficient condition for small-time local attainability of a set. (English summary) **2005d:93012**
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— *see also* **Hespanha, João P. et al., 2005j:93053**
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Liu, Derong (*with* Molchanov, A. P.) Criteria for robust absolute stability of time-varying nonlinear continuous-time systems. (English summary) **2005k:93164**
Liu, Hua Ping[2] (*with* Sun, Fu-Chun; Sun, Zeng Qi) Comments on: "Control of chaotic dynamical systems using support vector machines" [Phys. Lett. A. **317** (2003), no. 5-6, 429–435; MR2027477] by A. Kulkarni, V. K. Jayaraman and B. D. Kulkarni. (English summary)
Liu, Wenyuan (*with* Xiao, Jinghua; Yang, Junzhong) Synchronization in coupled chaotic oscillators with a no-flux boundary condition. (English summary) **2005k:93183**
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Liu, Yun-Gang (*with* Zhang, Ji-Feng) Minimal-order observer and output-feedback stabilization control design of stochastic nonlinear systems. (English summary) **2005k:93204**
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Mahmoud, Gamal M. (*with* Bountis, Tassos) The dynamics of systems of complex nonlinear oscillators: a review. (English summary) **2005h:34098**
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— (*with* Galaz, Martha; Astolfi, Alessandro; Sun, Yuan Zhang; Shen, Tie Long) Transient stabilization of multimachine power systems with nontrivial transfer conductances. (English summary) **2005h:93139**
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Radev, Radoslav Local relay control for a class of nonlinear systems with chaotic behaviors. (English summary)
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Ramaswamy, Ramakrishna *see* **Nandi, Amitabha et al., 2005m:37087**
Rapisarda, Paolo (*with* Trentelman, H. L.) Linear Hamiltonian behaviors and bilinear differential forms. (English summary) **2005k:93003**
Resmerita, Stefan *see* **Heymann, Michael et al., 2005i:93057**
Rifford, Ludovic *see* **Malisoff, Michael et al., 2005e:93130**
Roset, Bas (*with* Nijmeijer, Henk) Observer-based model predictive control. (English summary) **2005h:93029**
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Rouchon, Pierre[1] *see* **Martin, Philippe Pierre et al., 2005d:93131**
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Saab, Samer S. A heuristic Kalman filter for a class of nonlinear systems. (English summary)
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Sallet, G. *see* **Iggidr, A.**
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Selmic, Rastko R. (*with* Lewis, Frank L.) Neural net backlash compensation with Hebbian tuning using dynamic inversion. (English summary)
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Seshagiri, Sridhar (*with* Khalil, Hassan K.) Robust output regulation of minimum phase nonlinear systems using conditional servocompensators. (English summary) **2005k:93093**
Shan, Hong Mei (*with* Tian, Li Xin) Chaotic control and synchronization of the Lü system. (Chinese. English and Chinese summaries)
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Sinha, S. C. (*with* Gourdon, E.; Zhang, Yandong) Control of time-periodic systems via symbolic computation with application to chaos control. (English summary)
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Tian, Yu Ping[1] (*with* Yu, Xinghuo) Robust learning control for a class of nonlinear systems with periodic and aperiodic uncertainties. (English summary)
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Wang, Chang Ping[2] *see* **Wang, Feng et al., 2005h:93146**
Wang, Feng (*with* Chen, Shi Hua[3]; Yu, Minghai; Wang, Chang Ping[2]) Normal form and synchronization of strict-feedback chaotic systems. (English summary) **2005h:93146**
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Wang, Jing Ye *see* **Guo, Xiao Jun et al., 2005a:93032**
Wang, Wen Tao[2] (*with* Liu, Xiao Ping[2]; Zhao, Jun[2]) Controllability distributions of nonlinear singular systems. (Chinese. English and Chinese summaries)
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Wang, Yu Zhen (*with* Li, Chun Wen; Cheng, Dai Zhan) Generalized Hamiltonian realization of time-invariant nonlinear systems. (English summary)
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Xu, Bing Ji (*with* Shen, Yi[2]; Liao, Xiao Xin) Absolute stability of a general neutral type of Lurie indirect control systems. (Chinese. English and Chinese summaries)
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Zhang, Feng Xia Chaotic private communication based on observer design method. (Chinese. English and Chinese summaries)
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— Canonical transformations and stabilization of nonlinear discrete control systems. (English summary) **2005j:93015**

Items listed otherwise than by author

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Magni, Lalo (*with* Scattolini, Riccardo) Model predictive control of continuous-time nonlinear systems with piecewise constant control. (English summary) **2005a:93080**
Mu, Xiao Wu (*with* Yu, Ji Min; Bi, Wei Ping; Cheng, Dai Zhan) Robust adaptive control of nonholonomic systems with uncertainties. (Chinese. English and Chinese summaries) **2005a:93081**
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Repperger, D. W. (*with* Buckholtz, K.; Daniels, M.) A study on the stabilization of the van der Pol limit cycle. (English summary)
Ryabchenko, V. N. *see* **Bronnikov, A. M. et al., 2005e:93071**
Sanchez, Edgar N. (*with* Luk′yanov, A. G.; Felix, Ramon A.) Recurrent neural block form control. (English summary)
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Tukhtasinov, M. *see* **Satimov, N. Yu., 2005e:93073**
Udwadia, Firdaus E. (*with* von Bremen, Hubertus F.; Kumar, Ravi; Hosseini, Mohamed) Time delayed control of structural systems. (English summary) **2005b:93075**
Xian, Bin (*with* Dawson, Darren M.; de Queiroz, Marcio Santos; Chen, Jian[1]) A continuous asymptotic tracking control strategy for uncertain nonlinear systems. (English summary) **2005b:93076**
Xue, Bian-ling *see* **Zhang, Hao[4] et al., 2005b:93077**
Yang, Hong Yong[2] (*with* Tian, Yu Ping[1]) Hopf bifurcation in REM algorithm with communication delay. (English summary) **2005m:93075**
Yang, Zhaoyu *see* **Jing, Hai Ying, 2005h:93085**
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Zhai, Guisheng *see* **Chen, Xinkai, 2005c:93041**
Zhang, Hao[4] (*with* Ma, Xi-Kui; Xue, Bian-ling) A novel boundedness-based linear and nonlinear approach to control chaos. (English summary) **2005b:93077**
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Items with secondary classifications in 93C15

Abd-Elrady, E. (*with* Söderström, Torsten; Wigren, T.) Periodic signal modeling based on Liénard's equation. (English summary) **2005f:93038**
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Afanas′eva, G. B. Computation of an optimal filter in systems with delayed perturbations. (Russian. Russian summary) **2005h:93161**
Agrachev, Andrei A. (*with* Sachkov, Yu. L.) ★ Control theory from the geometric viewpoint. **2005b:93002**
Aĭsagaliev, S. A. (*with* Ospanova, M. K.) Existence of admissible controls for ordinary differential equations with fixed end-points of trajectories in the presence of phase and integral constraints. (Russian) **2005d:49001**
Akhmet, M. U. (*with* Zafer, A.) Controllability of two-point nonlinear boundary-value problems by the numerical-analytic method. (English summary) **2005a:93014**
Akl, Selim G. (*with* Cordy, Brendan J.; Yao, Weiguang) An analysis of the effect of parallelism in the control of dynamical systems. (English summary) **2005m:37215**
Albertos, P. (*with* Sala, Antonio) ★ Multivariable control systems. **2005a:93001**
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Amer, Y. A. *see* **Eissa, M., 2005a:93133**
Angeli, David (*with* Sontag, Eduardo D.) Interconnections of monotone systems with steady-state characteristics. (English summary) **2005f:93132**
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Ayala Bravo, Víctor (*with* Hacibekiroglu, A. K.; Kizil, E.; Zegarra, L. R.) Transitivity of linear control systems on Lie groups. (English and Portuguese summaries) **2005j:93023**
Ayasun, Saffet (*with* Nwankpa, Chika O.; Kwatny, Harry G.) Computation of singular and singularity induced bifurcation points of differential-algebraic power system model. (English summary) **2005i:34002**
Bakhrakh, L. D. (*with* Izrailovich, M. Ya.) Optimal control of the radiation of supershort-pulse antennas under packet mode operation. (Russian)
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Balashevich, N. V. (*with* Gabasov, R.; Kirillova, F. M.) Construction of optimal feedback from mathematical models with uncertainty. (Russian. Russian summary) **2005a:49068**
Banks, S. P. *see* **Sangelaji, Z., 2005d:93118**
Banning, Reinder (*with* De Koning, Willem L.; Adriaens, Han J. M. T. A.; Koops, Richard K.) State-space analysis and identification for a class of hysteretic systems. (English summary)
Bao, Sheng (*with* Feng, Yong[2]; Sun, Li Xia) Design of robust sliding mode observer for nonlinear uncertain systems. (Chinese. English and Chinese summaries)
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Bartolini, Giorgio (*with* Pisano, Alessandro; Usai, Elio) An improved second-order sliding-mode control scheme robust against the measurement noise. (English summary) **2005d:93028**
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Bronnikov, A. M. Embedding of systems. Conditions for the strict insensitivity of linear systems to nonextensive structural disturbances. (Russian. Russian summary) **2005f:93042**
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Chesi, Graziano (*with* Garulli, Andrea; Tesi, Alberto; Vicino, Antonio) Robust analysis of LFR systems through homogeneous polynomial Lyapunov functions. (English summary) **2005b:93126**
Chetverikov, Vladimir N. Higher symmetries and the Brunovský infinitesimal form of controlled systems. (Russian. Russian summary) **2005a:93027**
— A nonlinear Spencer complex for the group of invertible differential operators and its applications. (English summary) **2005g:93030**
Chien, T. L. *see* **Chen, Chung Cheng et al., 2005g:93026**
Chlamtac, I. *see* **Zeng, Guoping et al., 2005f:93027**
Choi, Kwonhue *see* **Park, Juhyun[1]**
Chu, Delin (*with* Hung, Y. S.) A numerically reliable solution for the squaring-down problem in system design. (English summary) **2005d:93034**
Clarke, Francis H. (*with* Ledyaev, Yu. S.; Stern, Ronald Jay) Proximal analysis and feedback construction. (English summary) **2005a:93073**
Cong, Ling (*with* Wang, You Yi[2]; Hill, David John) Co-ordinated control design of generator excitation and SVC for transient stability and voltage regulation enhancement of multi-machine power systems. (English summary)
Cordy, Brendan J. *see* **Akl, Selim G. et al., 2005m:37215**
Cortés, Jorge (*with* van der Schaft, A. J.; Crouch, P. E.) Gradient realization of nonlinear control systems. (English summary) **2005g:93024**
— *see also* **de León, Manuel et al., 2005c:49053**
Crouch, P. E. *see* **Cortés, Jorge et al., 2005g:93024**
Curran, Paul F. *see* **Shorten, Robert N. et al., 2005e:93139**
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Dai, Wen Zhan *see* **Pan, Hai Peng**
Daneev, A. V. (*with* Rusanov, V. A.) On the problem of constructing strong differential control models with a minimal operator norm. II. (Russian. English and Ukrainian summaries) **2005k:93051**
— (*with* Rusanov, V. A.) On the problem of constructing strong differential control models with a minimal operator norm. I. (Russian. English and Ukrainian summaries) **2005f:93039**
D'Angiò, Leontina *see* **Saccomani, Maria Pia et al., (2005d:92001)**
De Decker, Y. (*with* Tsekouras, G. A.; Provata, A.; Erneux, Thomas; Nicolis, G.) Propagating waves in one-dimensional discrete networks of coupled units. (English summary) **2005e:93005**
De Feo, Oscar Qualitative resonance of Shil'nikov-like strange attractors. I. Experimental evidence. (English summary) **2005a:37051a**
— Qualitative resonance of Shil'nikov-like strange attractors. II. Mathematical analysis. (English summary) **2005a:37051b**
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De Moor, Bart L. M. *see* **Willems, Jan C. et al., 2005i:93029**
De Persis, Claudio (*with* Isidori, Alberto) Stabilizability by state feedback implies stabilizability by encoded state feedback. (English summary) **2005e:93124**
Devasia, Santosh *see* **Perez, Hector**
Djemai, M. *see* **Floquet, Thierry et al., 2005a:93031**
Dong, Xin Zhuang (*with* Zhang, Qing Ling) Input-output energy decoupling of linear singular systems. (Chinese. English and Chinese summaries)
— (*with* Zhang, Qing Ling) H_∞ control for a class of nonlinear singular systems. (Chinese. English and Chinese summaries) **2005e:93045**
Duan, Guang Ren Two parametric approaches for eigenstructure assignment in second-order linear systems. (English summary) **2005f:93078**
Dymkov, S. M. *see* **Minchenko, L. I.**
Echeverría-Enríquez, A. (*with* Marín-Solano, J.; Muñoz-Lecanda, Miguel C.; Román-Roy, Narciso) Symmetries and reduction in optimal control theory. (English summary) **2005j:49014**
Edwards, Christopher *see* **Yan, Xing Gang et al., 2005f:93031**
Eissa, M. (*with* Amer, Y. A.) Vibration control of a cantilever beam subject to both external and parametric excitation. (English summary) **2005a:93133**
El-Gohary, Awad I. (*with* Tawfik, T. S.) Optimal control of the rotational motion of a rigid body using moving masses. (English summary) **2005a:70033**
Erneux, Thomas *see* **De Decker, Y. et al., 2005e:93005**
Errington, Rachel J. *see* **Evans, Neil D. et al., 2005a:92022**
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de Espíndola, José João (*with* da Silva Neto, João Morais) Identification of flexural stiffness parameters of beams. (English summary) (*see* **2005b:93006**)
Evans, Neil D. (*with* Errington, Rachel J.; Shelley, Michael David; Feeney, Graham P.; Chapman, Michael J.; Godfrey, Keith R.; Smith, Paul J.; Chappell, Michael J.) A mathematical model for the in vitro kinetics of the anti-cancer agent topotecan. (English summary) **2005a:92022**
Fausett, Laurene V. (*with* Murty, Kanuri N.) Controllability, observability and realizability criteria on time scale dynamical systems. (English summary) **2005e:93013**
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Ferrante, Augusto *see* **Ticozzi, Francesco et al., 2005g:93039**
Floquet, Thierry (*with* Barbot, Jean-Pierre; Perruquetti, Wilfrid; Djemai, M.) On the robust fault detection via a sliding mode disturbance observer. (English summary) **2005a:93031**
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Frangos, C. (*with* Yavin, Y.) Control of the motion of a small-scale car with four steerable wheels. (English summary)
Fu, Rao *see* **Yang, Ying[1] et al., 2005h:93068**
Gabasov, R. (*with* Kirillova, F. M.; Ruzhitskaya, E. A.) Feedback design for systems that perform prescribed motions. (Russian. Russian summary) **2005d:93112**
— *see also* **Balashevich, N. V. et al., 2005a:49068**
Gandhi, P. S. (*with* Ghorbel, Fathi) High-speed precision tracking with harmonic drive systems using integral manifold control design. (English summary)
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Ghorbel, Fathi *see* **Gandhi, P. S.**
Ghosh, Mini *see* **Pugliese, Andrea et al., (2005d:92001)**
Glass, John W. (*with* Franchek, Matthew A.) Convergence and computation of describing functions using a recursive Volterra series. (English summary) **2005f:93065**
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Godfrey, Keith R. *see* **Evans, Neil D. et al., 2005a:92022**
Golubev, A. E. (*with* Johanson, R.; Robertson, A.; Tkachev, S. B.) Output stabilization for nonminimum-phase systems using observer backstepping. (English summary)
Goto, Masuo *see* **Mei, Shengwei et al.**
Grimm, Gene (*with* Teel, Andrew R.; Zaccarian, Luca) Robust linear anti-windup synthesis for recovery of unconstrained performance. (English summary) **2005b:93065**
Grosu, Ioan Estimation of model parameters from time series by OPCL auto-synchronization. (English summary)
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Hacibekiroglu, A. K. *see* **Ayala Bravo, Víctor et al., 2005j:93023**
Haddad, Wassim M. (*with* Chellaboina, Vijaya-Sekhar; Nersesov, Sergey G.) Thermodynamics and large-scale nonlinear dynamical systems: a vector dissipative systems approach. (English summary) **2005b:34103**
Hagenmeyer, Veit (*with* Zeitz, Michael) Internal dynamics of flat nonlinear SISO systems with respect to a non-flat output. (English summary) **2005c:93021**
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Hamzi, Boumediene (*with* Kang, Wei; Barbot, Jean-Pierre) Analysis and control of Hopf bifurcations. (English summary) **2005e:93069**
He, Da Kuo *see* **Jia, Ming Xing et al.**
Hedrick, J. Karl *see* **Song, Bongsob, 2005f:93023**
Hill, David John *see* **Cong, Ling et al.**
Hinrichsen, Diederich (*with* Pritchard, Anthony J.) ★ Mathematical systems theory. I. **2005j:93001**
Ho, Daniel W. C. *see* **Liu, Xiao Ping[2], 2005e:93129**
Hong, Yiguang (*with* Yang, Guowu; Cheng, Dai Zhan; Spurgeon, Sarah K.) Finite time convergent control using terminal sliding mode. (English summary) **2005d:93029**
Hou, Ling (*with* Michel, Anthony N.) Stability analysis of pulse-width-modulated feedback systems. (English summary)
Hsu, Chih-Chin (*with* Fong, I-Kong) Robust stabilization of uncertain systems with persistent disturbance and a class of non-linear actuators. (English summary) **2005f:93146**
Hu, Guoqiang *see* **Huang, Jie[1], 2005d:93060**
Hu, Ting Shu (*with* Lin, Zongli) Output regulation of linear systems with bounded continuous feedback. (English summary) **2005j:93066**
Hu, Wei[4] *see* **Xue, Ancheng et al., 2005a:93064**
Hu, Yi Zheng (*with* Liu, Fa Wang) Numerical methods for a fractional-order control system. (Chinese. English and Chinese summaries)
Hua, Changchun (*with* Guan, Xin Ping) Adaptive control for chaotic systems. (English summary) **2005b:93085**
Huang, Biao *see* **Huang, Xin**
Huang, Jie[1] (*with* Chen, Zhiyong) A general framework for tackling the output regulation problem. (English summary) **2005h:93150**
— (*with* Hu, Guoqiang) Control design for the nonlinear benchmark problem via the output regulation method. (English summary) **2005d:93060**
— *see also* **Chen, Zhiyong, 2005b:93125**
Huang, Lin[1] *see* **Yang, Ying[1] et al., 2005h:93068**
Huang, Minyi *see* **Xu, Fei[1] et al.**
Huang, Xin (*with* Huang, Biao) Fixed-order controller design for linear time-invariant descriptor systems: A BMI approach. (English summary)
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Jabbari, Faryar (*with* Köse, İ. Emre) Rate and magnitude-bounded actuators: scheduled output feedback design. (English summary) **2005g:93046**
Jacobson, Clas A. *see* **Casas, Raúl A. et al.**
Jerbi, H. Asymptotic stabilizability of three-dimensional homogeneous polynomial systems of degree three. (English summary) **2005g:93093**
Jia, Lei *see* **Zhong, Maiying et al., 2005b:93063**
Jia, Ming Xing (*with* Wang, Fu Li; He, Da Kuo) Robust nonlinear fault diagnosis for sensors based on the RBF neural network. (Chinese. English and Chinese summaries)
Jiang, Zhong-Ping *see* **Praly, Laurent, 2005h:93141**
Johanson, R. *see* **Golubev, A. E. et al.**
Johansson, Rolf *see* **Shiryaev, A. S. et al., 2005e:93135**
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Katoh, Hisao H_∞-optimal preview controller and its performance limit. (English summary) **2005f:93053**
Katsoulakis, M. A. (*with* Majda, Andrew J.; Sopasakis, A.) Multiscale couplings in prototype hybrid deterministic/stochastic systems. I. Deterministic closures. (English summary) **2005m:76144**
Kawski, Matthias High-order maximal principles. **2005a:49042**
Khaĭlov, E. N. On the parametrization of the attainable set of a homogeneous bilinear system with quasicommuting matrices. (Russian. Russian summary) **2005d:93006**
Kharlamov, M. P. Automatic control of the programmed orientation of a rigid body. (Russian. Russian summary) **2005m:70028**
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— Estimates for the control time in systems with chaotic behavior. II. (Russian. Russian summary) **2005h:93159**
Kim, A. V. (*with* Volkanin, L. S.) On the synthesis of a control for systems with aftereffect in the control parameters. (Russian. English and Russian summaries) **2005b:93066**
Kim, Jae-Jun (*with* Singh, Tarunraj) Desensitized control of vibratory systems with friction: linear programming approach. (English summary)
Kirillova, F. M. *see* **Balashevich, N. V. et al., 2005a:49068** *and* **Gabasov, R. et al., 2005d:93112**
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Kokotović, Petar V. *see* **Skjetne, Roger et al., 2005m:93104**
Koops, Richard K. *see* **Banning, Reinder et al.**
Körkel, Stefan (*with* Kostina, Ekaterina; Bock, Hans Georg; Schlöder, Johannes P.) Numerical methods for optimal control problems in design of robust optimal experiments for nonlinear dynamic processes. (English summary) **2005d:49050**
Korsun, O. N. An algorithm for the identification of dynamical systems with a functional in a frequency domain. (Russian. Russian summary) **2005e:93039**
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Krastanov, Mikhail I. On the small-time local controllability. (English summary) **2005i:93014**
Krener, Arthur J. (*with* Kang, Wei; Chang, Dong Eui) Control bifurcations. (English summary) **2005e:34123**
Kučera, V. *see* **Ramos-Velasco, Luis E. et al., 2005e:93035**
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Lee, Tong Heng *see* **Lin, Chong et al., 2005a:93137**
Lehenkyi, Victor I. (*with* Rudolph, Joachim) Towards the group classification of control systems. (English summary)
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de León, Manuel (*with* Cortés, Jorge; Martín de Diego, David; Martínez, Sonia) General symmetries in optimal control. (English summary) **2005c:49053**
Leonov, G. A. Global stability of phase astatic control systems. (Russian. Russian summary) **2005c:93072**
Li, Chuandong *see* **Shu, Yonglu et al., 2005e:37070**
Li, Duan *see* **Liao, Li-Zhi, 2005k:49061**
Li, Wen Lin (*with* Quan, Sheng Hui; Liu, Guo Hua) Adaptive neural network control based on observer for a class of nonlinear systems. (Chinese. English and Chinese summaries)
Li, Xiu Ying[1] (*with* Xing, Wei[1]) Robustly positive real control for uncertain singular system. (Chinese. English and Chinese summaries)
Li, Yi Min *see* **Wang, Xue Di et al.**
Liao, Li-Zhi (*with* Li, Duan) Adaptive differential dynamic programming for multiobjective optimal control. (English summary) **2005k:49061**
Liberzon, Daniel Output-input stability implies feedback stabilization. (English summary) **2005f:93154**
Lien, Chang-Hua An efficient method to design robust observer-based control of uncertain linear systems. (English summary) **2005f:93022**
Lin, Chong (*with* Wang, Qing-Guo; Lee, Tong Heng; Loh, Ai Poh; Kwek, Keng Huat) Stability criteria and bounds for limit cycles of relay feedback systems. (English summary) **2005a:93137**
Lin, Zongli *see* **Hu, Ting Shu, 2005j:93066**
Litsyn, Elena (*with* Nepomnyashchikh, Yurii V.; Ponosov, A. V.) Hybrid feedback stabilization of quasilinear systems in the plane. (English summary) **2005k:93182**
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Liu, Feng[1] *see* **Mei, Shengwei et al., 2005e:93048**
Liu, Guo Hua *see* **Li, Wen Lin et al.**
Liu, Wan Quan *see* **Wang, Jing[12] et al., 2005j:93020**
Liu, Xiao Ping[2] (*with* Ho, Daniel W. C.) Stabilization of non-linear differential-algebraic equation systems. (English summary) **2005e:93129**
Liu, Yuyou (*with* Waters, T. P.; Brennan, Michael John) A comparison of semi-active damping control strategies for vibration isolation of harmonic disturbances. (English summary)
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Loh, Ai Poh *see* **Lin, Chong et al., 2005a:93137**
Lou, H. W. On the attainable sets of control systems with p-integrable controls. (English summary) **2005f:93004**
Lu, Qiang[1] *see* **Mei, Shengwei et al., 2005e:93048**
Luo, Albert C. J. A theory for non-smooth dynamic systems on the connectable domains. (English summary) **2005j:34008**
Lyashko, S. I. (*with* Nomirovskiĭ, D. A.) Singular optimal control with feedback. (Russian. English summary) **2005k:49105**
Lychenko, N. M. Decentralized tracking problems for interconnected systems: development of algorithms and modeling. (Russian. English summary) **2005e:93057**
Lynch, Alan F. *see* **Röbenack, Klaus, 2005b:93027**
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Majda, Andrew J. *see* **Katsoulakis, M. A. et al., 2005m:76144**
Makarov, E. K. (*with* Popova, S. N.) On sufficient conditions for the local proportional controllability of the Lyapunov exponents of linear systems. (Russian. Russian summary) **2005k:93018**
Maksimov, Vyacheslav I. The dynamic residual method in the input reconstruction problem. (Russian. Russian summary) **2005c:93019**
Malisoff, Michael Further results on the Bellman equation for optimal control problems with exit times and nonnegative Lagrangians. (English summary) **2005c:49065**
— (*with* Sontag, Eduardo D.) Asymptotic controllability and input-to-state stabilization: the effect of actuator errors. (English summary) **2005g:93096**
Mancilla-Aguilar, J. L. (*with* García, Rafael A.; Sontag, Eduardo D.; Wang, Yuan[2]) On the representation of switched systems with inputs by perturbed control systems. (English summary) **2005k:49013**
Marconi, Lorenzo (*with* Isidori, Alberto; Serrani, Andrea) Non-resonance conditions for uniform observability in the problem of nonlinear output regulation. (English summary) **2005h:93025**
— *see also* **Astolfi, Alessandro et al., 2005k:93091**
Mareels, Iven M. Y. *see* **Willems, Jacques L., 2005e:49070**
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Martínez, Sonia *see* **de León, Manuel et al., 2005c:49053**
Martínez-Guerra, R. (*with* Mendoza-Camargo, Juan) Observers for a class of Liouvillian and, non-differentially flat systems. (English summary) **2005f:93036**
Mart'yanov, A. S. On the reconstruction of controls from the measurement of some coordinates of a nonlinear dynamical system. (Russian. Russian summary)
Marx, Benoit (*with* Koenig, Damien; Georges, D.) Robust fault-tolerant control for descriptor systems. (English summary) **2005e:93047**
Masterkov, Yu. V. (*with* Rodina, L. I.) Sufficient and necessary conditions for the stable controllability of a nonlinear time-dependent system on the plane in the critical case. (Russian. Russian summary) **2005m:93015**
Mei, Shengwei (*with* Liu, Feng[1]; Chen, Ying; Lu, Qiang[1]) Co-ordinated H_∞ control of excitation and governor of hydroturbo-generator sets: a Hamiltonian approach. (English summary) **2005e:93048**
— (*with* Chen, Juming; Lu, Qiang[1]; Yokoyama, Akihiko; Goto, Masuo) Coordinated nonlinear robust control of TCSC and excitation for multi-machine systems. (English summary)
— *see also* **Xue, Ancheng et al., 2005a:93064**
Mendoza-Camargo, Juan *see* **Martínez-Guerra, R., 2005f:93036**
Michel, Anthony N. *see* **Hou, Ling**
Minchenko, L. I. (*with* Dymkov, S. M.) Suboptimality and differentiability of solutions of the problem of optimizing a multistage control system. (Russian. English and Russian summaries)
Montagner, Vinícius F. *see* **de Oliveira, P. J. et al., 2005b:93052**
Morina, S. I. (*with* Chentsov, A. G.) On the extension of a control problem with constraints on energy resources and with phase constraints on some of the coordinates. (Russian. Russian summary) **2005b:93012**
Moukam Kakmeni, F. M. (*with* Bowong, Samuel; Tchawoua, Clement; Kaptouom, E.) Strange attractors and chaos control in a Duffing-van der Pol oscillator with two external periodic forces. (English summary) **2005f:37065**
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Müller, T. G. *see* **Timmer, Jens et al.**
Muñoz-Lecanda, Miguel C. *see* **Echeverría-Enríquez, A. et al., 2005j:49014**
Murty, Kanuri N. *see* **Fausett, Laurene V., 2005e:93013**
Murty, M. S. N. (*with* Apparao, B. V.) On two point boundary value problems for $X = AX + XB$. (English summary)
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Nešić, Dragan (*with* Teel, Andrew R.) Input-output stability properties of networked control systems. (English summary) **2005k:93212**

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Nomirovskiĭ, D. A. *see* **Lyashko, S. I.**, **2005k:49105**
Ntogramatzidis, Lorenzo (*with* Marro, Giovanni) A parametrization of the solutions of the Hamiltonian system for stabilizable pairs. (English summary)
Nwankpa, Chika O. *see* **Ayasun, Saffet et al.**, **2005i:34002**
Oh, JinHyoung (*with* Bernstein, Dennis S.) Semilinear Duhem model for rate-independent and rate-dependent hysteresis. (English summary) **2005m:93006**
de Oliveira, P. J. (*with* Oliveira, Ricardo C. L. F.; Leite, V. J. S.; Montagner, Vinícius F.; Peres, Pedro L. D.) $\mathscr{H}_2$ guaranteed cost computation by means of parameter dependent Lyapunov functions. (English summary) **2005b:93052**
Oliveira, Ricardo C. L. F. *see* **de Oliveira, P. J. et al.**, **2005b:93052**
Ollivier, François Identifiabilité des systèmes: applications à la biologie. (French summary) [System identifiability: applications to biology] **2005e:92003**
Oloomi, H. (*with* Shafai, B.) Reduced-order controller design with low sensitivity to small feedback delays. (English summary)
Orbak, Âli Yurdun (*with* Eskinat, Esref; Turkay, Osman S.) Physical parameter sensitivity of system eigenvalues and physical model reduction. (English summary) **2005g:70037**
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Pan, Hai Peng (*with* Dai, Wen Zhan) Staged output variable structure control of feedback linearizable nonlinear system. (Chinese. English and Chinese summaries)
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Errata:
"A variational approach to second-order approximability of sliding mode control systems" Corrigendum: "A variational approach to second-order approximability of sliding mode control systems" [Optimization **53** (2004), no. 5-6, 641–654; MR2115996 (2005k:93039a)] by T. Zolezzi. (English summary) **2005k:93039b**

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— (*with* Liang, Xi-Yin) Differentiability of the C_0-semigroup and failure of Riesz basis for a mono-tubular heat exchanger equation with output feedback: a case study. (English summary) **2005g:93065**
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Li, Ta Tsien Exact boundary controllability of unsteady flows in a network of open canals. (English summary) **2005h:93090**

Li, Yugang (*with* Aron, Dan; Rahn, Christopher David) Adaptive vibration isolation for axially moving strings: theory and experiment. (English summary)

Liang, Xi-Yin *see* **Guo, Bao Zhu, 2005g:93065**

Loreti, Paola *see* **Komornik, Vilmos, 2005i:93051**

Macià, Fabricio The effect of group velocity in the numerical analysis of control problems for the wave equation. (English summary) (*see* **2005b:00020**)

Maksimov, Vyacheslav I. Control modeling for quasilinear parabolic equations. (English summary) **2005c:93045**

— On the reconstruction of controls in parabolic equations with an inexactly known right-hand side. (Russian. Russian summary) **2005c:93046**

Martinez, Patrick *see* **Cannarsa, Piermarco et al., 2005h:93086**

Mat Darus, I. Z. (*with* Tokhi, M. O.) Genetic algorithms based adaptive active vibration control of a flexible structure. (English summary)

Mezić, Igor *see* **Hagen, Gregory et al., 2005c:93044**

Mikulski, Leszek Control structure in optimization problems of bar systems. (English summary)

Morris, Kirsten *see* **Cheng, Ada, 2005a:93082**

Nickel, Gregor *see* **Kumpf, Michael, 2005e:93077**

(Park, Jong Seo) *see* **Rabah, Rabah, 2005b:93080**

Pérez-García, Rosario *see* **González-Burgos, Manuel, 2005h:93088**

Pillai, Harish K. *see* **Willems, Jan C., 2005a:93085**

Prieur, Christophe[2] *see* **de Halleux, Jonathan et al., 2005k:93106**

Qu, Zhihua An iterative learning algorithm for boundary control of a stretched moving string. (English summary) **2005k:93107**

Rabah, Rabah Comments on: "Continuous initial observability of nonlinear delay parabolic equations" [Far East J. Appl. Math. **10** (2003), no. 1, 15–28; MR1978071 (2004c:93057)] by J. R. Choi, Y. C. Kwun, and J. S. Park. (English summary) **2005b:93080**

Rahn, Christopher David *see* **Li, Yugang et al.**

Rosier, Lionel Control of the surface of a fluid by a wavemaker. (English summary) **2005h:93091**

Smaoui, Nejib Boundary and distributed control of the viscous Burgers equation. (English summary) **2005m:93078**

— *see also* **Zribi, Mohamed**

Smyshlyaev, Andrey (*with* Krstić, Miroslav) Explicit formulae for boundary control of parabolic PDEs. **2005d:93073**

Stewart, G. E. (*with* Gorinevskiĭ, D. M.; Dumont, Guy A.) Two-dimensional loop shaping. (English summary) **2005k:93108**

Tang, Shanjian (*with* Zhang, Xu[1]) Carleman inequality for backward stochastic parabolic equations with general coefficients. (English and French summaries) **2005h:93092**

Thuto, Mosalagae *see* **Ilchmann, Achim et al., 2005d:93072**

Tokhi, M. O. *see* **Mat Darus, I. Z.**

Townley, Stuart *see* **Ilchmann, Achim et al., 2005d:93072**

Triggiani, Roberto *see* **Lasiecka, Irena et al., 2005a:93084**

Udwadia, Firdaus E. Boundary control, quiet boundaries, super-stability and super-instability. (English summary) **2005j:93042**

Vancostenoble, Judith *see* **Cannarsa, Piermarco et al., 2005h:93086**

Velin, J. No-regret distributed control of system governed by quasilinear elliptic equations with incomplete data: the degenerate case. (English summary) **2005c:93047**

Walczak, Stanisław *see* **Idczak, Dariusz, 2005d:93071**

White, Warren J. *see* **Andreev, F. et al.**

Willems, Jan C. (*with* Pillai, Harish K.) Dissipative distributed systems. **2005a:93085**

Xie, Yu[1] *see* **Guo, Bao Zhu et al., 2005c:93043** *and* **2005i:93050**

Xu, Gen Qi (*with* Feng, De Xing; Yung, Siu Pang) Riesz basis property of the generalized eigenvector system of a Timoshenko beam. (English summary) **2005b:93081**

Yan, Qing-Xu (*with* Chen, Zhen-Guo; Feng, De Xing) Exponential stabilization of Euler-Bernoulli beam with dissipative boundary feedback. (English and Chinese summaries)

Yung, Siu Pang *see* **Xu, Gen Qi et al., 2005b:93081**

Zhang, Q. (*with* Guo, Bao Zhu) Stabilization of an elastic plate with viscoelastic boundary conditions. (English summary) **2005e:93078**

Zhang, Xu[1] Global exact controllability of semi-linear time reversible systems in infinite dimensional space. (English summary) (*see* **2005b:00020**)

— *see also* **Lasiecka, Irena et al., 2005a:93084** *and* **Tang, Shanjian, 2005h:93092**

Zhao, Yi[1] Introduction to some methods of chaos analysis and control for PDEs. (English summary) **2005a:93086**

Zribi, Mohamed (*with* Smaoui, Nejib) Boundary control of the forced viscous Burgers equation. (English summary)

Zworski, Maciej *see* **Burq, Nicolas, 2005m:93076**

Items with secondary classifications in 93C20

Aamo, Ole Morten (*with* Krstić, Miroslav) Global stabilization of a nonlinear Ginzburg-Landau model of vortex shedding. (English summary) **2005m:93119**

Agrachev, Andrei A. (*with* Sarychev, Andrei V.) Controllability for the Navier-Stokes equation with small control. (Russian) **2005h:93004**

Alabau-Boussouira, Fatiha Convexity and weighted integral inequalities for energy decay rates of nonlinear dissipative hyperbolic systems. (English summary) **2005h:34149**

Alekseev, G. V. Solvability of control problems for stationary equations of the magnetohydrodynamics of a viscous fluid. (Russian. Russian summary) **2005f:76108**

Alonso, Antonio A. (*with* Ydstie, B. Erik) Stabilization of distributed systems using irreversible thermodynamics. (English summary)

Ammari, Kais (*with* Jellouli, Mohamed) Stabilization of star-shaped networks of strings. (English summary) **2005h:93127**

Ammar-Khodja, Farid (*with* Benabdallah, Assia; Dupaix, C.; Kostin, I. N.) Controllability to the trajectories of phase-field models by one control force. (English summary) **2005b:93014**

Astolfi, Alessandro *see* **Karagiannis, Dimitrios et al.**

Atwell, Jeanne A. (*with* King, Belinda B.) Reduced order controllers for spatially distributed systems via proper orthogonal decomposition. (English summary) **2005m:93028**

Avalos, George (*with* Lasiecka, Irena) Exact boundary controllability of a hybrid PDE system arising in structural acoustic modeling. (English summary) **2005e:93009**

— (*with* Lasiecka, Irena) The null controllability of thermoelastic plates and singularity of the associated minimal energy function. (English summary) **2005b:93015**

Badraoui, L. (*with* Boutoulout, A.; Bourray, H.) Controllability of distributed parameter bioreactor: wastewater epuration. (English summary)

Balakrishnan, A. V. (*with* Shubov, Marianna A.) Asymptotic behaviour of the aeroelastic modes for an aircraft wing model in a subsonic air flow. (English summary) **2005m:76107**

Balakrishnan, S. N. *see* **Padhi, Radhakant et al.**

Balogh, Andras (*with* Krstić, Miroslav) Stability of partial difference equations governing control gains in infinite-dimensional backstepping. (English summary) **2005e:93120**

Barbu, Viorel (*with* Triggiani, Roberto) Internal stabilization of Navier-Stokes equations with finite-dimensional controllers. (English summary) **2005k:93169**

Baudouin, Lucie (*with* Puel, Jean-Pierre) An inverse problem for the Schrödinger equation. (English summary) **2005c:93025**

Becker, Roland (*with* Rannacher, Rolf) Error control for model reduction by discretization in optimal control of flows. **2005e:76039**

Belishev, M. I. (*with* Glasman, A.) Boundary control of the Maxwell dynamical system: lack of controllability by topological reasons. (English summary) (*see* **2005b:00020**)

— On the boundary controllability of a dynamical system described by the wave equation on a class of graphs (on trees). (Russian. English and Russian summaries) **2005c:93010**

Bellassoued, Mourad Global logarithmic stability in inverse hyperbolic problem by arbitrary boundary observation. (English summary) **2005f:35311**

Benabdallah, Assia *see* **Ammar-Khodja, Farid et al., 2005b:93014**

Benaddi, Ahmed ★ Stabilisation de quelques systèmes distribués au moyen des contrôles non-dissipatifs. (French) [Stabilization of some distributed systems using nondissipative controls] **2005h:93128**

Berrahmoune, Larbi Pointwise stabilization of strings with non-linear feedback. (English summary) **2005g:93088**

Bey, Rabah (*with* Heminna, Amar; Lohéac, Jean-Pierre) Boundary stabilization of the linear elastodynamic system by a Lyapunov-type method. **2005f:93133**

Bodart, Olivier (*with* González-Burgos, Manuel; Pérez-García, Rosario) Existence of insensitizing controls for a semilinear heat equation with a superlinear nonlinearity. (English summary) **2005h:93008**

— (*with* González-Burgos, Manuel; Pérez-García, Rosario) Insensitizing controls for a heat equation with a nonlinear term involving the state and the gradient. (English summary) **2005d:93009**

— (*with* González-Burgos, Manuel; Pérez-García, Rosario) A local result on insensitizing controls for a semilinear heat equation with nonlinear boundary Fourier conditions. (English summary) **2005h:93009**

Bomba, A. Ya. (*with* Kashtan, S. S.; Skopetskiĭ, V. V.) Nonlinear inverse boundary value problems of conformal mapping with controlling potential. (Russian. English and Ukrainian summaries) **2005f:31004**

Bourray, H. *see* **Zerrik, E. et al., 2005a:65095; 2005e:93026** *and* **Badraoui, L. et al.**

Boutoulout, A. *see* **Badraoui, L. et al.**

Bovyrin, A. V. *see* **Brusin, V. A., 2005h:93049**

Brusin, V. A. (*with* Bovyrin, A. V.) Construction of a class of finite H^∞ controllers for infinite-dimensional systems. (English summary) **2005h:93049**

Burq, Nicolas (*with* Zworski, Maciej) Geometric control in the presence of a black box. **2005d:47085**

Caldwell, James (*with* Ng, Douglas K. S.) ★ Mathematical modelling. **2005a:93002**

Cannarsa, Piermarco (*with* Martinez, Patrick; Vancostenoble, Judith) Persistent regional null controllability for a class of degenerate parabolic equations. (English summary) **2005i:93011**

— (*with* Martinez, Patrick; Vancostenoble, Judith) Null controllability of degenerate heat equations. (English summary) **2005j:93010**

Caruso, Andrea On the complete controllability of a distributed parameter nonlinear control system with partially C^1 coefficients. (English summary) **2005g:93011**

Casado Díaz, Juan (*with* Couce-Calvo, Julio; Martín-Gómez, José D.) Optimality conditions for nonconvex multistate control problems in the coefficients. (English summary) **2005e:49047**

Castro Barbero, Carlos (*with* Zuazua, Enrique) Unique continuation and control for the heat equation from an oscillating lower dimensional manifold. (English summary) **2005k:93012**

Cavalcanti, Marcelo Moreira (*with* Domingos Cavalcanti, Valéria N.; Soriano, Juan A.; Souza, Joel S.) Homogenization and uniform stabilization for a nonlinear hyperbolic equation in domains with holes of small capacity. (English summary) **2005a:35200**

Cavaterra, Cecilia Automatic control problems for integrodifferential parabolic equations. **2005c:45008**
Chaabane, S. (*with* Ferchichi, J.; Kunisch, Karl) Differentiability properties of the L^1-tracking functional and application to the Robin inverse problem. (English summary) **2005f:49006**
Chabakauri, G. D. On the vibrations of a string with a free right endpoint and with boundary control of small absolute value at the left endpoint. (Russian. Russian summary) **2005k:35240**
Chai, Hua Jin (*with* Xie, Ling Li) Controllability of a linear and semi-linear distributed-parameter system with two kinds of boundary controls. (Chinese. English and Chinese summaries)
Chang, Jin De (*with* Yao, Cui Zhen) Completeness of the root subspace of a beam equation with boundary feedback control. (Chinese. English and Chinese summaries)
Chen, Yang Quan *see* **Liang, Jinsong et al.**
Chen, Zhen-Guo (*with* Yan, Qing-Xu; Li, Zhaoqi) Boundary stabilization of nonuniform Timoshenko beam with rotor inertia at the tip. (English summary) **2005c:93079**
Cheng, Dai Zhan *see* **Wang, QuanFang et al., 2005a:93049**
Chentouf, Boumediène Dynamic boundary controls of a rotating body-beam system with time-varying angular velocity. **2005h:93130**
Choi, Ji-Yun (*with* Hong, Keum-Shik; Yang, Kyung-Jinn) Exponential stabilization of an axially moving tensioned strip by passive damping and boundary control. (English summary) **2005c:74056**
Christofides, Panagiotis D. *see* **Orlov, Yuri V. et al., 2005e:93028**
Coron, Jean-Michel (*with* Crépeau, Emmanuelle) Exact boundary controllability of a nonlinear KdV equation with critical lengths. (English summary) **2005b:93016**
— (*with* Trélat, Emmanuel) Global steady-state controllability of one-dimensional semilinear heat equations. (English summary) **2005f:93009**
Couce-Calvo, Julio *see* **Casado Díaz, Juan et al., 2005e:49047**
Crama, Philippe (*with* Schoukens, Johan; Pintelon, Rik) Generation of enhanced initial estimates for Hammerstein systems. (English summary)
Crépeau, Emmanuelle *see* **Coron, Jean-Michel, 2005b:93016**
Creusé, Emmanuel (*with* Mortazavi, Iraj) Simulation of low Reynolds number flow control over a backward-facing step using pulsed inlet velocities. **2005f:76043**
Dadfarnia, Mohsen (*with* Jalili, Nader; Xian, Bin; Dawson, Darren M.) Lyapunov-based vibration control of translational Euler-Bernoulli beams using the stabilizing effect of beam damping mechanisms. (English summary) **2005a:74043**
Dáger, René Simultaneous interior controllability of elastic strings. (English summary) (*see* **2005b:00020**)
Dawson, Darren M. *see* **Dadfarnia, Mohsen et al., 2005a:74043**
Deĭneka, V. S. *see* **Sergienko, Ivan V., 2005h:49063**; **2005i:49005**; **2005j:49001**; **2005k:49011** *and* **2005m:49009**
Delfour, Michel C. Addendum and remarks on doubly conservative numerical schemes for the nonlinear Schrödinger equation and its control: "Finite-difference solutions of a nonlinear Schrödinger equation" [J. Comput. Phys. **44** (1981), no. 2, 277–288; MR0645840 (83c:65195)] by Delfour, M. Fortin and G. Payre. (English summary) **2005a:65082**
Demetriou, Michael A. Natural second-order observers for second-order distributed parameter systems. (English summary) **2005b:93025**
Devi, Sunita *see* **Prasad, Rajendra, 2005k:93043**
Díaz Díaz, Jesús Ildefonso (*with* Tello, José Ignacio) Mathematical analysis, controllability and numerical simulation of a simple model of avascular tumor growth. **2005f:92004**
Domingos Cavalcanti, Valéria N. *see* **Cavalcanti, Marcelo Moreira et al., 2005a:35200**
Dorville, René (*with* Nakoulima, Ousseynou; Omrane, Abdennebi) Contrôle optimal pour les problèmes de contrôlabilité des systèmes distribués à données manquantes. (English and French summaries) [Optimal control for the controllability of distributed systems with incomplete data] **2005b:93017**
Duda, Jan T. *see* **Kowalewski, Adam, 2005a:49047**
Dupaix, C. *see* **Ammar-Khodja, Farid et al., 2005b:93014**
Efe, Mehmet Önder (*with* Özbay, Hitay) Low dimensional modelling and Dirichlét boundary controller design for Burgers equation. (English summary) **2005e:93056**
El Jaï, Abdelhak *see* **Zerrik, E. et al., 2005a:65095** *and* **2005e:93026**
Fabrizio, Mauro (*with* Giorgi, Claudio; Naso, Maria Grazia) Viscoelastic solids of exponential type. I. Minimal representations and controllability. (English summary) **2005k:74016**
Feng, De Xing *see* **Wang, QuanFang et al., 2005a:93049**; **Yan, Qing-Xu et al., 2005g:93098** *and* **Feng, Shao Ji, 2005m:35190**
Feng, Shao Ji (*with* Feng, De Xing) Nonlinear internal damping of wave equations with variable coefficients. (English summary) **2005m:35190**
Ferchichi, J. *see* **Chaabane, S. et al., 2005f:49006**
Fernández Cara, Enrique (*with* Guerrero, Sergio; Imanuvilov, Oleg Yurievich; Puel, Jean-Pierre) Remarks on exact controllability for Stokes and Navier-Stokes systems. (English and French summaries) **2005c:93011**
— (*with* de Teresa, Luz) Null controllability of a cascade system of parabolic-hyperbolic equations. (English summary) **2005f:93011**
— (*with* Guerrero, Sergio; Imanuvilov, Oleg Yurievich; Puel, Jean-Pierre) Local exact controllability of the Navier-Stokes system. (English and French summaries) **2005g:93013**
Fleming, Andrew J. *see* **Moheimani, S. O. Reza et al., 2005h:74028**
(Fortin, Michel) *see* **Delfour, Michel C., 2005a:65082**
Fragnelli, Genni Classical solutions for PDEs with nonautonomous past in L^p-spaces. (English summary) **2005b:34113**
Francfort, Gilles A. (*with* Gérard, Patrick) The wave equation on a thin domain: energy density and observability. (English summary) **2005d:35148**
Fullmer, Rees *see* **Liang, Jinsong et al.**
Gałkowski, K. (*with* Vinnikov, Victor) Guest editorial [Multidimensional control systems: theory with a view to applications].
Gao, Hang (*with* Lei, Peidong; Zhang, Bo[1]) A class of nonlinear degenerate integrodifferential control systems. (English summary) **2005m:93012**
Ge, Shuzhi Sam (*with* Lee, Tong Heng; Hong, Fan[2]; Goh, Cher Hiang) Energy-based robust controller design for flexible spacecraft. (English summary)
— *see also* **Gong, Jianqin et al., 2005f:93066**
Ge, Zhaoqiang (*with* Zhang, Beibei) Feedback and pole assignment of the second order singular distributed parameter control systems. (English summary) **2005e:93063**
George, Raju K. *see* **Nandakumaran, Akambadath K., 2005d:93016**
Gérard, Patrick *see* **Francfort, Gilles A., 2005d:35148**
Gervasio, Paola (*with* Naso, Maria Grazia) Numerical approximation of controllability of trajectories for Euler-Bernoulli thermoelastic plates. (English summary) **2005g:74084**
Gilbert, Robert P. *see* **Lin, Zhongyan, 2005f:65119**
Giorgi, Claudio *see* **Fabrizio, Mauro et al., 2005k:74016**
Glasman, A. *see* **Belishev, M. I., (2005b:00020)**
Glass, Olivier On the controllability of the Vlasov-Poisson system. (English summary) **2005a:93016**
Glowinski, Roland (*with* Periaux, Jacques; Toivanen, Jari) Time-periodic solutions of wave equation via controllability and fictitious domain methods. (English summary) (*see* **2005b:00020**)
Goh, Cher Hiang *see* **Ge, Shuzhi Sam et al.**
Golovin, Alexander A. *see* **Nepomnyashchy, Alexander A. et al., 2005g:93058**
Gong, Jianqin (*with* Ge, Shuzhi Sam; Wan, Bai Wu) Robust distributed controller design of rotational single-link smart materials beam. (English summary) **2005f:93066**
González-Burgos, Manuel *see* **Bodart, Olivier et al., 2005d:93009**; **2005h:93008** *and* **2005h:93009**
Grobbelaar-Van Dalsen, Marié Dynamic boundary stabilization of a Reissner-Mindlin plate with Timoshenko beam. (English summary) **2005h:49070**
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Guerrero, Sergio *see* **Fernández Cara, Enrique et al., 2005c:93011** *and* **2005g:93013**
Gugat, Martin (*with* Leugering, Günter; Schmidt, E. J. P. Georg) Global controllability between steady supercritical flows in channel networks. (English summary) **2005a:93017**
Guo, Bao Zhu (*with* Zhang, Qiong) On harmonic disturbance rejection of an undamped Euler-Bernoulli beam with rigid tip body. (English summary) **2005h:93073**
— (*with* Xu, Gen Qi) Riesz bases and exact controllability of C_0-groups with one-dimensional input operators. (English summary) **2005c:93016**
— (*with* Wang, Jun Min[2]; Yung, Siu Pang) On the C_0-semigroup generation and exponential stability resulting from a shear force feedback on a rotating beam. (English summary) **2005k:93149**
Ha, Junhong (*with* Nakagiri, Shin-ichi) Identification problems for the system governed by abstract nonlinear damped second order evolution equations. (English summary) **2005b:93046**
— *see also* **Nakagiri, Shin-ichi, 2005d:93041**
(Hagen, Gregory) *see* **Aamo, Ole Morten, 2005m:93119**
Hagstrom, Thomas (*with* Hariharan, S. I.; Thompson, David) High-order radiation boundary conditions for the convective wave equation in exterior domains. (English summary) **2005a:35225**
Halim, Dunant *see* **Moheimani, S. O. Reza et al., 2005h:74028**
de Halleux, Jonathan *see* **Prieur, Christophe[2], 2005d:93115**
Hariharan, S. I. *see* **Hagstrom, Thomas et al., 2005a:35225**
Hasler, Martin *see* **Hélie, Thomas, 2005h:65180**
Hazra, Subhendu Bikash (*with* Schulz, Volker) On efficient computation of the optimization problem arising in the inverse modeling of non-stationary multiphase multicomponent flow through porous media. **2005m:49064**
Hélie, Thomas (*with* Hasler, Martin) Volterra series for solving weakly non-linear partial differential equations: application to a dissipative Burgers' equation. (English summary) **2005h:65180**
Heminna, Amar *see* **Bey, Rabah et al., 2005f:93133**
Hong, Fan[2] *see* **Ge, Shuzhi Sam et al.**
Hong, Keum-Shik *see* **Choi, Ji-Yun et al., 2005c:74056**
Hou, Xue-Zhang (*with* Tsui, Sze-Kai) Analysis and control of a two-link and three-joint elastic robot arm. (English summary) **2005b:93041**
Huang, Yu[1] Boundary feedback anticontrol of spatiotemporal chaos for 1D hyperbolic dynamical systems. (English summary) **2005g:37156**
Ichihara, Naoyuki Homogenization for stochastic partial differential equations derived from nonlinear filterings with feedback. (English summary) **2005m:60135**
Il'in, Vladimir Aleksandrovich[1] Boundary control of spherically symmetric oscillations of a ball under the condition of the existence of finite energy. (Russian) **2005f:93013**
— (*with* Moiseev, E. I.) Boundary control of radially symmetric oscillations of a round membrane. (Russian) **2005f:93014**
Imanuvilov, Oleg Yurievich (*with* Yamamoto, Masahiro) Carleman estimates for the non-stationary Lamé system and the application to an inverse problem. (English summary) **2005k:35429**
— *see also* **Fernández Cara, Enrique et al., 2005c:93011** *and* **2005g:93013**
Jalili, Nader *see* **Dadfarnia, Mohsen et al., 2005a:74043**
Jellouli, Mohamed *see* **Ammari, Kais, 2005h:93127**
Johansen, Tor Arne (*with* Storaa, Camilla) Energy-based control of a distributed solar collector field. (English summary)
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Kang, Jum Ran (*with* Kwun, Young Chel; Park, Jong Seo) Controllability of nonlinear second order differential equations. (English summary) **2005d:93011**
Kapitonov, Boris V. Simultaneous exact controllability for a class of evolution systems. (English and Portuguese summaries) **2005h:93014**
— (*with* Raupp, Marco Antonio) Boundary stabilization in a problem of transmission for an inhomogeneous plasma. (English summary) **2005c:35026**
Kapustyan, Olena A. Approximate synthesis of optimal bounded control for a parabolic boundary value problem. (Ukrainian. English and Ukrainian summaries) **2005a:49071**
Karachik, V. V. Normalized system of functions with respect to the Laplace operator and its applications. (English summary) **2005f:35037**
Karagiannis, Dimitrios (*with* Astolfi, Alessandro; Ortega, Romeo) Two results for adaptive output feedback stabilization of nonlinear systems. (English summary)
Kashtan, S. S. *see* **Bomba, A. Ya. et al., 2005f:31004**
Khapalov, Alexander Controllability properties of a vibrating string with variable axial load. (English summary) **2005e:93015**
Kheowan, On-Uma (*with* Müller, Stefan C.) Control of spiral waves in excitable media.

(English summary)

Kim, Seon Yu (*with* Kwun, Young Chel; Park, Jong Seo) Complete T-controllability of nonlinear delay parabolic equations under boundary control. (English summary) **2005h:93016**

— *see also* **Park, Dong Gun et al., 2005f:93019**

King, Belinda B. *see* **Atwell, Jeanne A., 2005m:93028**

Kobayashi, Toshihiro Low-gain adaptive stabilization of semilinear second-order hyperbolic systems. (English summary) **2005f:93148**

Komornik, Vilmos (*with* Loreti, Paola; Mazzini, Leonardo) Null controllability of the free surface of a liquid in a container. (English summary) **2005e:93016**

Kornev, A. A. On an iterative method for constructing "Hadamard whiskers". (Russian. Russian summary) **2005k:37197**

Kostin, I. N. *see* **Ammar-Khodja, Farid et al., 2005b:93014**

Kowalewski, Adam (*with* Duda, Jan T.) An optimization problem for time lag distributed parabolic systems. (English summary) **2005a:49047**

Kowalski, Tadeusz (*with* Sadkowski, Wawrzyniec) The null-exact controllability of the generalized wave problem governed by once integrated semigroups. (English summary) **2005f:93016**

Krstić, Miroslav *see* **Balogh, Andras, 2005e:93120**; **Smyshlyaev, Andrey, 2005h:93078** *and* **Aamo, Ole Morten, 2005m:93119**

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Łada, Andrzej (*with* Sidz, Leszek) Approximate boundary controllability for the system of linear elasticity. (English summary) **2005h:93017**

Lagnese, John E. (*with* Leugering, Günter) Time-domain decomposition of optimal control problems for the wave equation. (English summary) **2005a:49062**

— (*with* Leugering, Günter) ★ Domain decomposition methods in optimal control of partial differential equations. **2005g:49002**

Lasiecka, Irena (*with* Triggiani, Roberto; Yao, P. F.) Carleman estimates for a plate equation on a Riemann manifold with energy level terms. (English summary) **2005g:58073**

— (*with* Triggiani, Roberto) $L_2(\Sigma)$-regularity of the boundary to boundary operator B^*L for hyperbolic and Petrowski PDEs. (English summary) **2005i:35164**

— Optimal control problems and Riccati equations for systems with unbounded controls and partially analytic generators—applications to boundary and point control problems. **2005m:49038**

— (*with* Triggiani, Roberto) The operator B^*L for the wave equation with Dirichlet control. **2005i:35162**

— (*with* Triggiani, Roberto; Zhang, Xu[1]) Global uniqueness, observability and stabilization of nonconservative Schrödinger equations via pointwise Carleman estimates. II. $L_2(\Omega)$-estimates. (English summary) **2005g:35274**

— *see also* **Avalos, George, 2005b:93015** *and* **2005e:93009**

Lee, Charles H. (*with* Tran, Hien T.) Reduced-order-based feedback control of the Kuramoto-Sivashinsky equation. (English summary) **2005e:93128**

Lee, Tong Heng *see* **Ge, Shuzhi Sam et al.**

Lei, Peidong *see* **Gao, Hang et al., 2005m:93012**

Leugering, Günter *see* **Lagnese, John E., 2005a:49062**; **2005g:49002** *and* **Gugat, Martin et al., 2005a:93017**

Li, Shu Gang *see* **Wang, Geng Sheng, 2005e:93137**

Li, Ta Tsien (*with* Rao, Bopeng) Some results on the exact boundary controllability for quasilinear hyperbolic systems. (English summary) **2005e:93018**

— Exact boundary controllability for 1-D quasilinear wave equations. (English summary) (*see* **2005c:35004**)

— Exact controllability for quasilinear hyperbolic systems and its application to unsteady flows in a network of open canals. (English summary) **2005b:76030**

Li, Xiao Chun *see* **Sui, Ming**

Li, Zhaoqi *see* **Chen, Zhen-Guo et al., 2005c:93079**

Liang, Jinsong (*with* Chen, Yang Quan; Fullmer, Rees) Boundary stabilization and disturbance rejection for time fractional order diffusion-wave equations. (English summary)

Límaco, J. *see* **de Menezes, Silvano Bezerra et al., 2005c:35027**

Lin, Zhongyan (*with* Gilbert, Robert P.) Numerical algorithm based on transmutation for solving inverse wave equation. (English summary) **2005f:65119**

Lions, Jacques Louis Sur le contrôle des équations de Navier-Stokes. (French summary) [Control of Navier-Stokes equations] **2005d:76036**

Liu, Kang Sheng (*with* Rao, Bopeng) Stabilité exponentielle des équations des ondes avec amortissement local de Kelvin-Voigt. (English and French summaries) [Exponential stability for wave equations with local Kelvin-Voigt damping] **2005g:93095**

Lohéac, Jean-Pierre *see* **Bey, Rabah et al., 2005f:93133**

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Lou, Yiming *see* **Orlov, Yuri V. et al., 2005e:93028**

Lu, Dian Chen (*with* Yan, Min Juan; Tian, Li Xin; Zhang, Zheng Di) H_∞ control of nonlinear simply supported beam vibrations. (Chinese. English and Chinese summaries)

Macchelli, Alessandro (*with* Melchiorri, Claudio) Modeling and control of the Timoshenko beam. The distributed port Hamiltonian approach. (English summary) **2005m:74066**

Marchenko, Vladimir Matveevich (*with* Shklyar, B.) Approximate controllability of distributed systems with bounded input operator by distributed controller. (English summary) **2005f:93017**

— *see also* **Shklyar, B., 2005k:93027**

Marquez, Horacio J. *see* **Polushin, Ilya G.**

Martinez, Patrick *see* **Cannarsa, Piermarco et al., 2005i:93011** *and* **2005j:93010**

Martín-Gómez, José D. *see* **Casado Díaz, Juan et al., 2005e:49047**

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Medeiros, Luis Adauto *see* **de Menezes, Silvano Bezerra et al., 2005c:35027**

Mehrenberger, Michel Observability of coupled systems. (English summary) **2005c:93018**

— Critical length for a Beurling type theorem. (English and Italian summaries) **2005i:42009**

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Mel'nik, V. S. *see* **Zgurovskiĭ, M. Z., 2005e:93001**

de Menezes, Silvano Bezerra (*with* Límaco, J.; Medeiros, Luis Adauto) Finite approximate controllability for semilinear heat equations in noncylindrical domains. (English and Portuguese summaries) **2005c:35027**

Micu, S. (*with* Ortega, J. H.; de Teresa, Luz) An example of ε-insensitizing controls for the heat equation with no intersecting observation and control regions. (English summary) **2005d:93013**

Migórski, Stanisław Identification and conrol of strongly damped nonlinear hyperbolic problems with applications. (English summary) **2005f:49007**

Miller, Luc How violent are fast controls for Schrödinger and plate vibrations? (English summary) **2005d:93022**

— Geometric bounds on the growth rate of null-controllability cost for the heat equation in small time. (English summary) **2005f:93018**

— Controllability cost of conservative systems: resolvent condition and transmutation. (English summary) **2005i:93015**

Mitkowski, Wojciech (*with* Oprzędkiewicz, Krzysztof) A sample time assign for a discrete interval parabolic system with the two-dimensional uncertain parameter space. (English summary) **2005j:93068**

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Moiseev, E. I. *see* **Il'in, Vladimir Aleksandrovich[1], 2005f:93014**

Mordukhovich, Boris S. (*with* Shvartsman, Ilya) Optimization and feedback control of constrained parabolic systems under uncertain perturbations. **2005d:49045**

— (*with* Raymond, Jean-Pierre) Dirichlet boundary control of hyperbolic equations in the presence of state constraints. (English summary) **2005c:49057**

— (*with* Raymond, Jean-Pierre) Neumann boundary control of hyperbolic equations with pointwise state constraints. (English summary) **2005k:49069**

Moreles, Miguel Ángel Exact controllability and perturbation analysis for elastic beams. (English summary) **2005d:93014**

Mortazavi, Iraj *see* **Creusé, Emmanuel, 2005f:76043**

Müller, Stefan C. *see* **Kheowan, On-Uma**

Müller, T. G. (*with* Timmer, Jens) Parameter identification techniques for partial differential equations. (English summary)

Muñoz Rivera, Jaime Edilberto (*with* Naso, Maria Grazia) Exact controllability for hyperbolic thermoelastic systems with large memory. (English summary) **2005h:93019**

Muravnik, A. B. On the stabilization of solutions of some singular quasilinear parabolic problems. (Russian. Russian summary) **2005g:35157**

Nakagiri, Shin-ichi (*with* Ha, Junhong) Constant parameters identification problems of coupled sine-Gordon equations. (English summary) **2005d:93041**

— *see also* **Ha, Junhong, 2005b:93046**

Nakoulima, Ousseynou Contrôlabilité à zéro avec contraintes sur le contrôle. (English and French summaries) [Null-controllability with constraints on the control] **2005e:93019**

— *see also* **Dorville, René et al., 2005b:93017**

Nandakumaran, Akambadath K. (*with* George, Raju K.) Exact controllability of a semilinear thermoelastic system. (English summary) **2005d:93016**

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Negreanu, Mihaela (*with* Zuazua, Enrique) A 2-grid algorithm for the 1-d wave equation. (English summary) (*see* **2005b:00020**)

— (*with* Zuazua, Enrique) Discrete Ingham inequalities and applications. (English and French summaries) **2005b:93021**

Nepomnyashchy, Alexander A. (*with* Golovin, Alexander A.; Gubareva, V.; Panfilov, V.) Global feedback control of a long-wave morphological instability. (English summary) **2005g:93058**

Ng, Douglas K. S. *see* **Caldwell, James, 2005a:93002**

de Oliveira, Frederico Ricardo Ferreira *see* **de Toledo Fleury, Agenor, (2005b:93006)**

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Oprzędkiewicz, Krzysztof *see* **Mitkowski, Wojciech, 2005j:93068**

Orlov, Yuri V. (*with* Lou, Yiming; Christofides, Panagiotis D.) Robust stabilization of infinite-dimensional systems using sliding-mode output feedback control. (English summary) **2005e:93028**

Ortega, J. H. *see* **Micu, S. et al., 2005d:93013**

Ortega, Romeo *see* **Karagiannis, Dimitrios et al.**

Özbay, Hitay *see* **Efe, Mehmet Önder, 2005e:93056**

Padhi, Radhakant (*with* Balakrishnan, S. N.; Randolph, Timothy) Adaptive-critic based optimal neuro control synthesis for distributed parameter systems. (English summary)

Panfilov, V. *see* **Nepomnyashchy, Alexander A. et al., 2005g:93058**

Park, Dong Gun (*with* Kim, Seon Yu; Kwun, Young Chel) T-controllability of nonlinear delay parabolic equations under boundary control. (English summary) **2005f:93019**

Park, Jong Seo *see* **Kang, Jum Ran et al., 2005d:93011** *and* **Kim, Seon Yu et al., 2005h:93016**

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Periaux, Jacques *see* **Glowinski, Roland et al., (2005b:00020)**

Phung, Kim Dang Stabilization of the incompressible 2D Euler equations in a simply connected domain utilizing the Lorentz force. (English summary) **2005i:76126**

— Note on the cost of the approximate controllability for the heat equation with potential. (English summary) **2005d:93017**

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Polis, Michael P. *see* **Sivergina, Irina F., 2005i:93016**

Polushin, Ilya G. (*with* Marquez, Horacio J.) Boundedness properties of nonlinear quasi-dissipative systems. (English summary)

Pommaret, Jean-François Algebraic analysis of control systems defined by partial differential equations. **2005m:93034**

Prasad, Rajendra (*with* Devi, Sunita) Reduction of linear discrete time systems in frequency domain using continued fraction expansions. (English summary) **2005k:93043**

Prieur, Christophe[2] (*with* de Halleux, Jonathan) Stabilization of a 1-D tank containing a fluid modeled by the shallow water equations. (English summary) **2005d:93115**

Puel, Jean-Pierre *see* **Fernández Cara, Enrique et al., 2005c:93011**; **2005g:93013** *and* **Baudouin, Lucie, 2005c:93025**

Quadrat, A. On a general structure of the stabilizing controllers based on stable range. (English summary) **2005b:93137**

Randolph, Timothy *see* **Padhi, Radhakant et al.**

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Raymond, Jean-Pierre *see* **Mordukhovich, Boris S.**, 2005c:49057 *and* 2005k:49069
Rebiai, S. E. Boundary stabilization of Schrödinger equations with variable coefficients. (English summary) 2005f:35264
Romanovskiĭ, M. R. Estimation of all mathematical model parameters and experiment informativeness. (English summary) (*see* 2005d:35008)
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Seidman, Thomas I. Positive reachability for diffusion equations. (English summary) 2005d:93008
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— (*with* Deĭneka, V. S.) Optimal control of the deformed state of a composite body. (Russian. English, Russian and Ukrainian summaries) 2005h:49063
— (*with* Deĭneka, V. S.) Optimal control of a parabolic system with concentrated heat capacity conditions. (Russian. English, Russian and Ukrainian summaries) 2005m:49009
— (*with* Deĭneka, V. S.) Control of a dynamic elastic equilibrium system with adjoint conditions. (Russian. English, Russian and Ukrainian summaries) 2005k:49011
— (*with* Deĭneka, V. S.) ★ Optimal control of distributed systems with conjugation conditions. 2005j:49001
Shishlenin, M. A. *see* **Kabanikhin, S. I.**, 2005e:93038
Shklyar, B. (*with* Marchenko, Vladimir Matveevich) Approximate null-controllability of distributed systems with unbounded input operator by distributed controller. (English summary) 2005k:93027
— *see also* **Marchenko, Vladimir Matveevich**, 2005f:93017
Shorygin, P. O. Approximate controllability of the Navier-Stokes system in unbounded domains. (Russian. Russian summary) 2005c:93013
— Approximate controllability of the Navier-Stokes system specified in an unbounded domain. (Russian. Russian summary) 2005e:93025
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Sikolya, Eszter Simultaneous observability of networks of beams and strings. (English summary) 2005d:93025
Sivergina, Irina F. (*with* Polis, Michael P.) Exact null controllability of a nonlinear thermoelastic contact problem. (English summary) 2005i:93016
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Smaoui, Nejib Nonlinear boundary control of the generalized Burgers equation. (English summary) 2005e:93144
Smyshlyaev, Andrey (*with* Krstić, Miroslav) Closed-form boundary state feedbacks for a class of 1-D partial integro-differential equations. (English summary) 2005h:93078
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Storaa, Camilla *see* **Johansen, Tor Arne**
Sui, Ming (*with* Li, Xiao Chun) Variable structure control of a thermoelastic system. (Chinese. English and Chinese summaries)
Tachim Medjo, T. (*with* Tcheugoué Tébou, L. R.) Adjoint-based iterative method for robust control problems in fluid mechanics. (English summary) 2005c:65090
Tcheugoué Tébou, L. R. *see* **Tachim Medjo, T.**, 2005c:65090
Tello, José Ignacio *see* **Díaz Díaz, Jesús Ildefonso**, 2005f:92004
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Toivanen, Jari *see* **Glowinski, Roland et al.**, (2005b:00020)
de Toledo Fleury, Agenor (*with* de Oliveira, Frederico Ricardo Ferreira) Dynamics and control of a flexible rotating arm through the movement of a sliding mass. (English summary) (*see* 2005b:93006)
Tran, Hien T. *see* **Lee, Charles H.**, 2005e:93128
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Tukhtasinov, M. On the starting control of the oscillations of a string. (Russian. English and Ukrainian summaries) 2005a:91021
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Wang, Geng Sheng (*with* Li, Shu Gang) Stabilization of the phase-field system via internal feedback control. (Chinese. English and Chinese summaries) 2005e:93137
— *see also* **Wang, Li Juan**, 2005c:49058
Wang, Jun Min² (*with* Xu, Gen Qi; Yung, Siu Pang) Exponential stability of variable coefficients Rayleigh beams under boundary feedback controls: a Riesz basis approach. (English summary) 2005d:93120
— *see also* **Guo, Bao Zhu et al.**, 2005k:93149
Wang, Li Juan (*with* Wang, Geng Sheng) The optimal time control of a phase-field system. (English summary) 2005c:49058
Wang, QuanFang (*with* Feng, De Xing; Cheng, Dai Zhan) Parameters identification problems for Hopfield-type neural network equations. (English summary) 2005a:93049
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Yamamoto, Masahiro *see* **Imanuvilov, Oleg Yurievich**, 2005k:35429
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Yan, Qing-Xu (*with* Wan, Li²; Feng, De Xing) On boundary feedback stabilization of Timoshenko beam with rotor inertia at the tip. (English summary) 2005g:93098
— *see also* **Chen, Zhen-Guo et al.**, 2005c:93079
Yang, Kyung-Jinn *see* **Choi, Ji-Yun et al.**, 2005c:74056
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Yao, P. F. *see* **Lasiecka, Irena et al.**, 2005g:58073
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Yu, Yong Exact boundary controllability of unsteady flows in open canals. (Chinese. English and Chinese summaries) 2005g:93018
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Zavalishchin, S. T. Control of motion of mechanical systems in a viscous medium for optimum energy consumption. (English summary) 2005h:93031
Zerrik, E. (*with* Bourray, H.; El Jaï, Abdelhak) Regional flux reconstruction for parabolic systems. (English summary) 2005a:65095
— (*with* Bourray, H.; El Jaï, Abdelhak) Regional observability for semilinear distributed parabolic systems. (English summary) 2005e:93026
Zerz, Eva Multidimensional behaviours: an algebraic approach to control theory for PDE. (English summary) 2005d:93037
Zgurovskiĭ, M. Z. (*with* Mel′nik, V. S.) ★ Nonlinear analysis and control of physical processes and fields. 2005e:93001
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Zhang, Qiong *see* **Guo, Bao Zhu**, 2005h:93073
Zhang, Shu Qin (*with* Yao, Cui Zhen) The dynamic behavior of Euler-Bernoulli beam under self-excited boundary feedback. (Chinese. English and Chinese summaries)
Zhang, Xu¹ (*with* Zuazua, Enrique) Controllability of nonlinear partial differential equations. (English summary) 2005e:93020
— (*with* Zuazua, Enrique) Polynomial decay and control of a $1-d$ hyperbolic-parabolic coupled system. (English summary) 2005e:93021
— *see also* **Lasiecka, Irena et al.**, 2005g:35274
Zhang, Zheng Di *see* **Lu, Dian Chen et al.**
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Chen, Jenq-Der Robust control for uncertain neutral systems with time-delays in state and control input via LMI and GAs. (English summary)
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Darouach, M. Linear functional observers for systems with delays in state variables: the discrete-time case. (English summary)
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Fiagbedzi, Yawvi A. (*with* Boucherif, Abdelkader) Finite dimensional representation of distributed delay systems. (English summary) 2005k:93109
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Guan, Xin Ping (*with* Wu, Jing³; Long, Cheng Nian) Resilient controller design for a class of large-scale delay systems: adaptive approach. (Chinese. English and Chinese summaries)
Guan, Zhi Hong *see* **Chen, Wu Hua et al.**
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He, Han Lin² (*with* Wang, Zhong Sheng; Liao, Xiao Xin) On the order of stable compensators for a class of time-delay system. (English summary) 2005d:93074
He, Yong³ *see* **Wu, Min² et al.**
Jeong, Seung Cheol (*with* Park, PooGyeon) Constrained MPC algorithm for uncertain time-varying systems with state-delay. (English summary)
Jiang, Xie Fu (*with* Xu, Wen Li¹) Robust exponential stabilization for linearly uncertain time-delay systems. (Chinese. English and Chinese summaries)
Jing, Xing-Jian (*with* Tan, Da-Long; Wang, Yue-Chao) An LMI approach to stability of systems with severe time-delay. (English summary) 2005b:93082
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Li, Hong Fei (*with* Luo, Xue Bo) Design of feedback controller for neutral linear systems based on observational state. (Chinese. English and Chinese summaries)
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Luo, Ningsu *see* **de la Sen, Manuel, 2005k:93113**
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Mahmoud, Magdi S. (*with* Al-Muthairi, Naser F.) Linear parameter-varying state-delay (LPVSD) systems: stability and $\mathscr{L}_2$-gain controllers. (English summary) **2005g:93066**
— Uncertain jumping systems with strong and weak functional delays. (English summary) **2005m:93079**
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Michel, Anthony N. (*with* Zhai, Guisheng; Chen, Xinkai; Sun, Ye) $\mathscr{L}_2$ gain analysis of switched symmetric systems with time delays. (English summary) **2005c:93048**
Michiels, Wim (*with* Engelborghs, Koen; Vansevenant, P.; Roose, Dirk) Continuous pole placement for delay equations. (English summary) **2005k:93110**
Mirkin, Boris M. (*with* Gutman, Per-Olof) Model reference adaptive control of state delayed system with actuator failures. (English summary) **2005k:93111**
Mondié, Sabine (*with* Loiseau, Jean Jacques) Finite eigenstructure assignment for input delay systems. (English summary) **2005e:93079**
— (*with* Kharitonov, Vladimir L.) Exponential estimates for retarded time-delay systems: an LMI approach. (English summary)
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Olgac, Nejat *see* **Sipahi, Rifat, (2005d:93003)**
Park, Juhyun[1] Delay-dependent guaranteed cost stabilization criterion for neutral delay-differential systems: matrix inequality approach. (English summary) **2005b:93083**
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Rabah, Rabah (*with* Malabre, Michel) Weak structure at infinity and row-by-row decoupling for linear delay systems. (English summary) **2005e:93081**
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Sieber, Jan (*with* Krauskopf, Bernd) Complex balancing motions of an inverted pendulum subject to delayed feedback control. (English summary) **2005d:93075**
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Sun, Ye *see* **Michel, Anthony N. et al., 2005c:93048**
Tan, Da-Long *see* **Jing, Xing-Jian et al., 2005b:93082**
Tang, Gong You (*with* Liu, Peng[2]; Xie, Nan[1]) Feedforward and feedback optimal control for time-delay systems with persistent disturbances. (Chinese. English and Chinese summaries)
Tarbouriech, Sophie (*with* Abdallah, Chaouki T.; Ariola, Marco) Bounded control of multiple-delay systems with applications to ATM networks. (*see* **2005d:93003**)
Vansevenant, P. *see* **Michiels, Wim et al., 2005k:93110**
Wang, Dejin Delay-dependent observer-based stabilizing controller design for linear multiple state-delayed systems. (English summary)
Wang, Jian Liang *see* **Xu, Sheng Yuan et al., 2005b:93084**
Wang, Yue-Chao *see* **Jing, Xing-Jian et al., 2005b:93082**
Wang, Zhong Sheng *see* **He, Han Lin[2] et al., 2005d:93074**
Wu, Jing[3] *see* **Guan, Xin Ping et al.**
Wu, Min[2] (*with* He, Yong[3]; She, Jin-Hua) Delay-dependent criteria for the robust stability of systems with time-varying delay. (English summary)
Wu, Qing-Hua *see* **Zhang, Dong Wen**
Xie, Nan[1] *see* **Tang, Gong You et al.**
Xu, Sheng Yuan (*with* Lam, James; Wang, Jian Liang; Yang, Guang-Hong) Non-fragile positive real control for uncertain linear neutral delay systems. (English summary) **2005b:93084**
Xu, Wen Li[1] *see* **Jiang, Xie Fu**
Yang, Guang-Hong *see* **Xu, Sheng Yuan et al., 2005b:93084**
Yin, Shan Shan (*with* Hao, Fei) Stability and performance to bounded disturbance of linear neutral time-delay systems. (Chinese. English and Chinese summaries)
Yu, Hai Bin *see* **Liu, Yu Zhong**
Yumagulov, Marat G. *see* **Muzafarov, S. M., 2005e:93080**
Zhai, Guisheng *see* **Michel, Anthony N. et al., 2005c:93048**
Zhang, Dong Wen (*with* Wu, Qing-Hua) Robust quadratic performance for linear neutral systems with uncertainties. (Chinese. English and Chinese summaries)
Zhang, Fa-ming Absolute stability for control systems with multiple time-varying delays. (English and Chinese summaries) **2005e:93082**
Zhong, Qing-Chang On distributed delay in linear control laws. II. Rational implementations inspired from the δ-operator. (English summary) **2005m:93080**
Zuber, I. E. *see* **Gelig, A. Kh., 2005a:93087**

Items with secondary classifications in 93C23

Abdallah, Chaouki T. *see* **Birdwell, J. Douglas et al., (2005d:93003)** *and* **Hayat, Majeed M. et al., (2005d:93003)**
Ahn, Seong Joon *see* **Kim, Jong Hae et al.**
Ahn, Seungjoon *see* **Kim, Jong Hae et al.**
Anandhi, E. R. *see* **Balachandran, Krishnan, 2005e:93010**
Annaswamy, Anuradha M. Active-adaptive control of acoustic resonances in flows. (English summary) (*see* **2005d:93003**)
Anthoni, S. Marshal *see* **Sakthivel, R. et al., 2005f:93020**
Aracil, R. *see* **Azorin, J. M. et al.**
Arcak, Murat *see* **Fan, Xingzhe et al., 2005b:93145**
Azorin, J. M. (*with* Reinoso, O.; Aracil, R.; Ferre, M.) Generalized control method by state convergence for teleoperation systems with time delay. (English summary)
Baker, Christopher T. H. (*with* Parmuzin, Evgeny I.) Analysis via integral equations of an identification problem for delay differential equations. (English summary) **2005i:34104**
Balachandran, Krishnan (*with* Anandhi, E. R.) Boundary controllability of neutral integrodifferential systems in Banach spaces. (English summary) **2005e:93010**
Basin, Michael V. (*with* Martinez-Zuñiga, Rodolfo) Optimal linear filtering over observations with multiple delays. (English summary) **2005d:93139**
— (*with* Rodriguez Gonzalez, Jesus G.; Martinez-Zuñiga, Rodolfo) Optimal controller for linear systems with time delays in input and observations. (English summary)
— (*with* Rodriguez Gonzalez, Jesus G.; Martinez-Zuñiga, Rodolfo) Optimal filtering for linear state delay systems. (English summary) **2005k:93223**
Belkoura, Lotfi (*with* Dambrine, Michel; Orlov, Yuri V.; Richard, Jean-Pierre) Identifiability and identification of linear systems with delays. (English summary) **2005e:93037**
Belmiloudi, Aziz Robust control problems associated with time-varying delay nonlinear parabolic equations. (English summary) **2005a:93050**
Benchohra, Mouffak (*with* Ntouyas, Sotiris K.) Controllability of neutral functional differential and integrodifferential inclusions in Banach spaces. (English summary) **2005e:93011**
Benner, Hartmut *see* **Just, Wolfram et al., 2005k:37065**
Bezruchko, B. P. *see* **Prokhorov, M. D. et al.**
Birdwell, J. Douglas (*with* Chiasson, John; Tang, Zhong; Abdallah, Chaouki T.; Hayat, Majeed M.; Wang, Tsewei) Dynamic time delay models for load balancing. I. Deterministic models. (English summary) (*see* **2005d:93003**)
— *see also* **Hayat, Majeed M. et al., (2005d:93003)**
Bliman, Pierre-Alexandre Absolute stability criteria with prescribed decay rate for finite-dimensional and delay systems. (English summary)
— From Lyapunov-Krasovskii functionals for delay-independent stability to LMI conditions for μ-analysis. (English summary) **2005f:34207**
Bonnet, Catherine (*with* Partington, Jonathan R.) Analysis of fractional delay systems of retarded and neutral type. (English summary) **2005k:93060**
— (*with* Partington, Jonathan R.) Robust stability analysis of various classes of delay systems. (English summary) **2005e:93140**
— *see also* **Partington, Jonathan R., 2005d:93055**
Boukas, E. K. (*with* Liu, Zi-Kuan) Delay-dependent stabilization of singularly perturbed jump linear systems. (English summary) **2005a:93130**
— *see also* **Shi, Peng, 2005a:93060**
von Bremen, Hubertus F. *see* **Udwadia, Firdaus E. et al., 2005b:93075**
Busawon, K. *see* **Tingey, D. et al.**
Cabrera, Juan Luis (*with* Milton, John G.) Stick balancing: on-off intermittency and survival times. (English summary) **2005c:93053**
Cao, Jin De (*with* Wang, Jun[3]) Delay-dependent robust stability of uncertain nonlinear systems with time delay. (English summary) **2005a:93125**
— (*with* Chen, Tian Ping) Globally exponentially robust stability and periodicity of delayed neural networks. (English summary) **2005e:93108**
— (*with* Huang, De-Shuang; Qu, Yuzhong) Global robust stability of delayed recurrent neural networks. (English summary) **2005f:93122**
— (*with* Li, Han-Xiong; Ho, Daniel W. C.) Synchronization criteria of Lur'e systems with time-delay feedback control. (English summary) **2005e:93121**
— (*with* Wang, Jun[3]) Global asymptotic and robust stability of recurrent neural networks with time delays. (English summary) **2005j:93056**
— *see also* **Li, Xiaolin, 2005f:93127**
Castillo, Pedro *see* **Lozano Leal, Rogelio et al., (2005d:93003)**
Castillo-Toledo, B. *see* **Luk'yanov, A. G. et al., 2005b:93034**
Chalishajar, Dimplekumar N. *see* **George, Raju K. et al., 2005j:93011**
Chang, Yuan-Chang (*with* Chen, Song-Shyong; Su, Shun-Feng; Lee, Tsu-Tian) Static output feedback stabilization for nonlinear interval time-delay systems via fuzzy control approach. (English summary) **2005f:93097**
Chellaboina, Vijaya-Sekhar (*with* Haddad, Wassim M.; Kamath, Ajeet) A dissipative dynamical systems approach to stability analysis of time delay systems. (English summary) **2005h:34199**
— *see also* **Haddad, Wassim M., 2005e:34232**
Chen, Bing[2] (*with* Zhou, Yu Cheng) Delay-dependent stability analysis and stabilization of T-S fuzzy models with time-delay. (Chinese. English and Chinese summaries)
— Reliable fuzzy H_∞ control of uncertain systems with time-varying delay. (English summary) **2005b:93089**
— (*with* Liu, Xiao Ping[2]) Reliable control design of fuzzy dynamic systems with time-varying delay. (English summary) **2005b:93090**
— (*with* Lam, James) Reliable observer-based H_∞ control of uncertain state-delayed systems. (English summary)
— *see also* **Sun, Xi Ming et al.**
Chen, Cailian *see* **Guan, Xin Ping et al., 2005k:93159**
Chen, Cheng-Wu (*with* Chiang, W. L.; Hsiao, F. H.) Stability analysis of T-S fuzzy models for nonlinear multiple time-delay interconnected systems. (English summary) **2005b:93091**
Chen, Feng De Positive periodic solutions of neutral Lotka-Volterra system with feedback control. (English summary) **2005h:34184**
— *see also* **Zhang, Hui Ying**
Chen, Ke Dong *see* **Li, Guangwei[1]**
Chen, Mao Yin (*with* Zhou, Dong Hua; Shang, Yun) A simple time-delayed method to control chaotic systems. (English summary) **2005h:93129**
Chen, Peng Nian *see* **Fang, Zhong et al.**
Chen, Song-Shyong *see* **Chang, Yuan-Chang et al., 2005f:93097**
Chen, Tian Ping *see* **Cao, Jin De, 2005e:93108**
Chen, Wan Yi Global asymptotic stability for a class of Hopfield neural networks with

delays. (Chinese. English and Chinese summaries)
Chen, Wu Hua (*with* Guan, Zhi Hong; Lu, Xiao Mei) Delay-dependent robust stabilization and H_∞-control of uncertain stochastic systems with time-varying delay. (English summary) **2005e:93044**
— (*with* Guan, Zhi Hong; Lu, Xiao Mei) Delay-dependent exponential stability of uncertain stochastic systems with multiple delays: an LMI approach. (English summary) **2005k:93233**
— *see also* **Guan, Zhi Hong et al., 2005k:93160**
Chen, Yang Quan (*with* Moore, Kevin L.) Analytical stability bound for delayed second-order systems with repeating poles using Lambert function W. (English summary)
Cherid, Ali Output feedback dynamic controller for retarded systems. (English summary) **2005k:93092**
Chiang, W. L. *see* **Chen, Cheng-Wu et al., 2005b:93091**
Chiasson, John *see* **Birdwell, J. Douglas et al.,** (**2005d:93003**) *and* **Hayat, Majeed M. et al.,** (**2005d:93003**)
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Collado, Joaquin *see* **Kharitonov, Vladimir L. et al., 2005k:93151**
Cui, Bao Tong (*with* Wang, Wei[8]; Deng, Fei Qi) Variable structure control of a class of distributed parameter systems with delays. (Chinese. English and Chinese summaries)
Dadfarnia, Mohsen (*with* Jalili, Nader; Xian, Bin; Dawson, Darren M.) Lyapunov-based vibration control of translational Euler-Bernoulli beams using the stabilizing effect of beam damping mechanisms. (English summary) **2005a:74043**
Dambrine, Michel *see* **Belkoura, Lotfi et al., 2005e:93037** *and* **Michiels, Wim et al., 2005e:93113**
Danaher, S. *see* **Tingey, D. et al.**
Datko, Richard Empirical methods for determining the stability of certain linear delay systems. (English summary) **2005e:34182**
Dauer, J. P. (*with* Mahmudov, N. I.) Controllability of some nonlinear systems in Hilbert spaces. (English summary) **2005h:93011**
Dawson, Darren M. *see* **Dadfarnia, Mohsen et al., 2005a:74043**
Delli Priscoli, Francesco (*with* Pietrabissa, Antonio) Design of a bandwidth-on-demand (BoD) protocol for satellite networks modelled as time-delay systems. (English summary)
Deng, Fei Qi *see* **Cui, Bao Tong et al.** *and* **Luo, Yi Ping et al.**
Dhakal, Sagar *see* **Hayat, Majeed M. et al.,** (**2005d:93003**)
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Dong, Hai Rong (*with* Geng, Zhi Yong; Huang, Lin[1]) Robust control of time-delay systems with mixed uncertainties. (Chinese. English and Chinese summaries)
Du, Dongyun (*with* Tang, Yun) Bifurcation analysis of differential-difference-algebraic equations. (English summary) **2005d:34155**
Duan, Guang Ren *see* **Hua, Changchun et al., 2005f:93098** *and* **Fu, Yan Ming et al.**
Dugard, Luc *see* **Rodriguez, Salvador A. et al., 2005e:93115**; **2005h:93126** *and* **Ivănescu, Dan et al.**
Dzhafarov, É. M. Robust sliding mode control of multivariable time-delay systems. (English summary) **2005b:93031**
Dzul, Alejandro *see* **Lozano Leal, Rogelio et al.,** (**2005d:93003**)
Engelborghs, Koen *see* **Roose, Dirk et al.,** (**2005d:93003**)
Escoto Hernández, Jaime *see* **Luk'yanov, A. G. et al., 2005b:93034**
Fan, Gui Hong (*with* Li, Yong Kun; Qin, Mao Chang) The existence of positive periodic solutions for periodic feedback control systems with delays. (English summary) **2005b:34136**
Fan, Xingzhe (*with* Arcak, Murat; Wen, John T.) Robustness of network flow control against disturbances and time-delay. (English summary) **2005b:93145**
Fang, Hua Jing *see* **Zheng, Ying[3]**
Fang, Zhong (*with* Han, Zheng Zhi; Chen, Peng Nian) A sampled-data iterative learning control algorithm for a class of delayed nonlinear systems. (Chinese. English and Chinese summaries)
Fattouh, Anas (*with* Sename, Olivier) A model matching solution of robust observer design for time-delay systems. (English summary) **2005e:93024**
Ferre, M. *see* **Azorin, J. M. et al.**
Fiagbedzi, Yawvi A. Finite-dimensional approximation of neutral systems with v_0-stable root chains. (English summary) **2005b:65074**
Finogenko, I. A. On sliding regimes of controlled discontinuous systems with aftereffect. (Russian. Russian summary) **2005g:93023**
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Fridman, Emilia Effects of small delays on stability of singularly perturbed systems. (English summary) **2005m:93111**
— (*with* Shaked, U.) On reachable sets for linear systems with delay and bounded peak inputs. (English summary)
— Output regulation of nonlinear neutral systems. (English summary) **2005e:93062**
Fu, Yan Ming (*with* Zhang, Peng[5]; Duan, Guang Ren) Design of state observer for a class of linear time-delay systems. (Chinese. English and Chinese summaries)
Fuh, Chyun-Chau (*with* Tsai, Hsun-Heng; Tung, Pi-Cheng) Stabilizing unstable periodic orbits via universal input-output delayed-feedback control. (English summary)
Fujita, Masayuki[1] *see* **Uchida, Kenko et al.**
Gabasov, R. (*with* Kirillova, F. M.) Optimal on-line control with delays. (English and Georgian summaries) **2005a:49070**
Gao, Cunchen *see* **Li, Hai Yan[2]**
Gao, Huijun (*with* Lam, James; Wang, Chang Hong[1]; Xu, Sheng Yuan) $\mathscr{H}_\infty$ model reduction for discrete time-delay systems: delay-independent and dependent approaches. (English summary) **2005a:93054**
— (*with* Lam, James; Wang, Chang Hong[1]; Wang, Qing[6]) Hankel norm approximation of linear systems with time-varying delay: continuous and discrete cases. (English summary) **2005g:93027**
— *see also* **Wang, Qing[6] et al.**
Gao, Jianping (*with* Huang, Biao) Delay-dependent robust guaranteed cost control of an uncertain linear system with state and input delay. (English summary) **2005h:93046**
Garcia, Pedro *see* **Lozano Leal, Rogelio et al.**
Ge, Wei Gao *see* **Yang, Ping-Hua**
Geng, Zhi Yong *see* **Dong, Hai Rong et al.**
George, Raju K. (*with* Chalishajar, Dimplekumar N.; Nandakumaran, Akambadath K.) Controllability of second order semi-linear neutral functional differential inclusions in Banach spaces. (English summary) **2005j:93011**
Gil, Pedro Garcia *see* **Lozano Leal, Rogelio et al.,** (**2005d:93003**)
Glizer, Valery Y. On stabilization of nonstandard singularly perturbed systems with small delays in state and control. (English summary) **2005c:93060**
— Observability of singularly perturbed linear time-dependent differential systems with small delay. (English summary) **2005c:93015**
Gu, Keqin *see* **Advances in time-delay systems, 2005d:93003** *and* **Taoutaou, Damia et al., 2005e:93117**
Guan, Xin Ping (*with* Chen, Cailian; Shi, Peng) On robust stability for uncertain time-delay systems: a polyhedral Lyapunov-Krasovskiĭ approach. (English summary) **2005k:93159**
— *see also* **Hua, Changchun et al., 2005b:93147**; **2005f:93098**; **2005m:93023** *and* **2005m:93086**
Guan, Zhi Hong (*with* Chen, Wu Hua; Xu, Jian-Xin) Delay-dependent stability and stabilizability of uncertain jump bilinear stochastic systems with mode-dependent time-delays. (English summary) **2005k:93160**
— *see also* **Chen, Wu Hua et al., 2005e:93044**; **2005k:93233** *and* **Huang, Jian et al.**
Haddad, Wassim M. (*with* Chellaboina, Vijaya-Sekhar) Stability and dissipativity theory for nonnegative and compartmental dynamical systems with time delay. (English summary) **2005e:34232**
— *see also* **Chellaboina, Vijaya-Sekhar et al., 2005h:34199**
Hale, Jack K. (*with* Verduyn Lunel, Sjoerd M.) Stability and control of feedback systems with time delays. (English summary) **2005a:34112**
Han, Qing-Long Robust stability of uncertain delay-differential systems of neutral type. (English summary)
— On robust stability of neutral systems with time-varying discrete delay and norm-bounded uncertainty. (English summary)
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— *see also* **Yue, Dong** *and* **Jiang, Xie Fu et al.**
Han, Zheng Zhi *see* **Fang, Zhong et al.**
Hao, Fei (*with* Wang, Long[1]; Yu, Mei[3]; Chu, Tianguang) Robust stability and performance of uncertain Lurie systems with state delays. (English summary) **2005c:93070**
Hayat, Majeed M. (*with* Dhakal, Sagar; Abdallah, Chaouki T.; Birdwell, J. Douglas; Chiasson, John) Dynamic time delay models for load balancing. II. A stochastic analysis of the effect of delay uncertainty. (English summary) (*see* **2005d:93003**)
— *see also* **Birdwell, J. Douglas et al.,** (**2005d:93003**)
He, Yong[3] (*with* Wu, Min[2]; She, Jin-Hua; Liu, Guo-Ping) Robust stability for delay Lur'e control systems with multiple nonlinearities. (English summary) **2005i:93068**
— *see also* **Wu, Min[2] et al.**
Ho, Daniel W. C. *see* **Cao, Jin De et al., 2005e:93121**; **Yue, Dong et al., 2005f:93130** *and* **Wang, Zi Dong[1]**
Hong, Jang-Lee A chain-scattering matrix approach to the H^∞ output feedback control for state-delayed systems. (English summary) **2005f:93049**
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Hsiao, F. H. *see* **Chen, Cheng-Wu et al., 2005b:93091**
Hu, Hai Yan Using delayed state feedback to stabilize periodic motions of an oscillator. (English summary) **2005e:93126**
— *see also* **Wang, Zai Hua et al., 2005c:93075**
Hu, Pin-hui (*with* Yan, Feng) Predictive control to multi-time delayed systems. (Chinese. English and Chinese summaries)
Hu, Shou Song (*with* Zhu, Qixin) Stochastic optimal control and analysis of stability of networked control systems with long delay. (English summary)
— (*with* Liu, Ya) Robust H_∞ control of multiple time-delay uncertain nonlinear system using fuzzy model and adaptive neural network. (English summary) **2005f:93050**
Hu, Wei Li *see* **Zhu, Zhang Qing et al.**
Hua, Changchun (*with* Guan, Xin Ping; Shi, Peng) Robust stabilization of a class of nonlinear time-delay systems. (English summary) **2005b:93147**
— (*with* Guan, Xin Ping; Duan, Guang Ren) Variable structure adaptive fuzzy control for a class of nonlinear time-delay systems. (English summary) **2005f:93098**
— (*with* Guan, Xin Ping; Shi, Peng) Adaptive fuzzy control for uncertain interconnected time-delay systems. (English summary) **2005m:93086**
— (*with* Guan, Xin Ping; Shi, Peng) Robust backstepping control for a class of time delayed systems. (English summary) **2005m:93023**
Huang, Biao *see* **Gao, Jianping, 2005h:93046**
Huang, De-Shuang *see* **Cao, Jin De et al., 2005f:93122**
Huang, Jian (*with* Guan, Zhi Hong; Wang, Zhongdong) Exponential stability for networked control systems based on the model of nonlinear discrete-time system with time-varying delay. (English summary)
Huang, Lin[1] *see* **Dong, Hai Rong et al.**
Huang, Wen Jun *see* **Lu, Ren Quan et al.**
Ikeda, Kojiro *see* **Uchida, Kenko et al.**
Ilchmann, Achim (*with* Sangwin, C. J.) Output feedback stabilisation of minimum phase systems by delays. (English summary) **2005d:93113**
— (*with* Ryan, Eugene P.; Trenn, Stephan) Tracking control: performance funnels and prescribed transient behaviour. (English summary) **2005k:93179**
Ismail, Abdulla (*with* Mahmoud, Magdi S.; Shi, Peng) Output feedback stabilization and disturbance attenuation of time-delay systems with Markovian jump parameters. (English summary) **2005g:93120**
— (*with* Mahmoud, Magdi S.) A descriptor approach to simultaneous $\mathscr{H}_2/\mathscr{H}_\infty$ control of jumping time-delay systems. (English summary) **2005a:93056**
— (*with* Mahmoud, Magdi S.) LMI approach to robust stability and $\mathscr{H}_\infty$ control of

uncertain neutral jumping systems. (English summary) **2005a:93055**
— *see also* **Mahmoud, Magdi S., 2005g:93043** *and* **2005k:93214**
Ivănescu, Dan (*with* Niculescu, Silviu-Iulian; Dugard, Luc; Dion, Jean-Michel; Verriest, Erik I.) On delay-dependent stability for linear neutral systems. (English summary)
Izuta, Guido (*with* Watanabe, Keiji) A note on the two disk mixed sensitivity design for control system with multiple output time delays. (English summary) **2005b:93049**
Jabedar-Maralani, Parviz *see* **Karimi, H. R. et al., 2005k:93068**
Jalili, Nader *see* **Dadfarnia, Mohsen et al., 2005a:74043**
Ji, Guo Jun H^∞ control of linear uncertain systems with time-delay input. (Chinese. English and Chinese summaries)
Jia, Yingmin (*with* Kokame, Hideki) Improved LMI representations for delay-independent and delay-dependent stability conditions. (English summary) **2005e:34233**
— *see also* **Yu, Li[1]**
Jiang, Pei Gang[2] (*with* Li, Chun Wen) Observer-based robust stabilization for uncertain systems with unknown time-varying delay. (English summary) **2005e:93142**
Jiang, Xie Fu (*with* Xu, Wen Li[1]) Output-feedback adaptive control for delay parameters in time-delay system. (Chinese. English and Chinese summaries)
— (*with* Xu, Wen Li[1]; Han, Qing-Long) Observer-based fuzzy control design with adaptation to delay parameter for time-delay systems. (English summary)
Jing, Yuan Wei *see* **Zhang, You et al., 2005e:93053** *and* **Liu, Xiao Zhi et al.**
Just, Wolfram (*with* Benner, Hartmut; von Loewenich, Clemens) On global properties of time-delayed feedback control: weakly nonlinear analysis. (English summary) **2005k:37065**
Kamath, Ajeet *see* **Chellaboina, Vijaya-Sekhar et al., 2005h:34199**
Kao, Chung-Yao (*with* Lincoln, Bo) Simple stability criteria for systems with time-varying delays. (English summary)
Karavaev, A. S. *see* **Prokhorov, M. D. et al.**
Karimi, H. R. (*with* Moshiri, B.; Lucas, Caro) Robust fuzzy linear control of a class of stochastic nonlinear time-delay systems. (English summary) **2005g:93072**
— (*with* Jabedar-Maralani, Parviz; Lohmann, B.; Moshiri, B.) H_∞ control of parameter-dependent state-delayed systems using polynomial parameter-dependent quadratic functions. (English summary) **2005k:93068**
Kharitonov, Vladimir L. (*with* Zhabko, A. P.) Lyapunov-Krasovskiĭ approach to the robust stability analysis of time-delay systems. (English summary) **2005k:93161**
— Complete type Lyapunov-Krasovskii functionals. (English summary) **2005g:34191**
— (*with* Niculescu, Silviu-Iulian; Moreno, Jaime A.; Michiels, Wim) Static output feedback stabilization: necessary conditions for multiple delay controllers. (English summary) **2005g:93104**
— (*with* Mondié, Sabine; Collado, Joaquin) Exponential estimates for neutral time-delay systems: an LMI approach. (English summary) **2005k:93151**
— *see also* **Rodriguez, Salvador A. et al., 2005e:93115**
Khartouski, V. On the reconstruction of the current state of the linear difference-differential system with commensurable delays. (English summary) **2005h:93042**
Kim, A. V. (*with* Volkanin, L. S.; Choi, Young-Sik) Generalized Riccati equations in linear-quadratic control problems. (English summary) **2005k:49101**
— (*with* Volkanin, L. S.) On the synthesis of a control for systems with aftereffect in the control parameters. (Russian. English and Russian summaries) **2005b:93066**
Kim, Jong Hae (*with* Ahn, Seong Joon; Ahn, Seungjoon) Guaranteed cost and H_∞ filtering for discrete-time polytopic uncertain systems with time delay. (English summary)
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Kwon, O. M. (*with* Park, Juhyun[1]) On improved delay-dependent robust control for uncertain time-delay systems. (English summary) **2005f:93126**
— *see also* **Park, Juhyun[1] et al., 2005e:93050; 2005h:93140** *and* **2005m:93129**
Kwon, Wook Hyun *see* **Lee, Young Sam et al., 2005m:93047**
Lafay, J.-F. *see* **Van Assche, Vincent et al., 2005a:93072**
Lam, James *see* **Gao, Huijun et al., 2005a:93054; 2005g:93027; Xu, Sheng Yuan et al., 2005a:93063; 2005b:93062; 2005j:93058; Yue, Dong et al., 2005b:93070; 2005f:93130; 2005j:93026; Zhong, Maiying et al., 2005f:93044; Chen, Bing[2]** *and* **Wang, Qing[6] et al.**
Lee, Seongno *see* **Park, Juhyun[1] et al., 2005e:93050**
Lee, Tsu-Tian *see* **Chang, Yuan-Chang et al., 2005f:93097**
Lee, Young Sam (*with* Moon, Young Soo; Kwon, Wook Hyun; Park, PooGyeon) Delay-dependent robust H_∞ control for uncertain systems with a state-delay. (English summary) **2005m:93047**
Li, Chuandong (*with* Liao, Xiaofeng; Wong, Kwok-Wo) Chaotic lag synchronization of coupled time-delayed systems and its applications in secure communication. (English summary) **2005b:93142**
— (*with* Liao, Xiaofeng) Lag synchronization of Rossler system and Chua circuit via a scalar signal. (English summary) **2005g:93094**
— (*with* Liao, Xiaofeng; Zhang, Rong[3]) Delay-dependent exponential stability analysis of bi-directional associative memory neural networks with time delay: an LMI approach. (English summary) **2005h:34201**
Li, Chun Guang (*with* Liao, Xiaofeng; Wang, Houjun) Stability analysis of fuzzy large-scale systems with time delays in interconnections. (English summary)
Li, Chun Wen *see* **Jiang, Pei Gang[2], 2005e:93142**
Li, Guangwei[1] (*with* Chen, Ke Dong) Robust output feedback control for a class of nonlinear uncertain systems with time-delay. (Chinese. English and Chinese summaries)
Li, Hai Yan[2] (*with* Gao, Cunchen) On the robust stability of interval coefficients nonlinear time-invariant large scale continuous control system with multi-group multi-delay. (English summary)
Li, Han-Xiong *see* **Cao, Jin De et al., 2005e:93121**
Li, Hong Fei (*with* Luo, Xue Bo) Robust absolute stability of a neutral Lurie control system. (Chinese. English and Chinese summaries)
Li, Hua *see* **Liu, Xiao Zhi et al.**
Li, Wen Lin *see* **Quan, Sheng Hui**
Li, Xiaolin (*with* Cao, Jin De) Global exponential robust stability of delayed neural networks. (English summary) **2005f:93127**
Li, Yin Ya (*with* Sheng, An Dong; Wang, Yuan Gang) Robust control design for time-delay systems with parameter uncertainties using the PID controller. (Chinese. English and Chinese summaries)
Li, Yong Kun (*with* Liu, Ping[1]; Zhu, Lifei) Positive periodic solutions of a class of functional differential systems with feedback controls. (English summary) **2005d:34151**
— Positive periodic solutions for a periodic neutral differential equation with feedback control. (English summary) **2005g:34210**
— *see also* **Fan, Gui Hong et al., 2005b:34136**
Liao, Xiaofeng (*with* Wong, Kwok-Wo; Yang, Shizhong) Stability analysis for delayed cellular neural networks based on linear matrix inequality approach. (English summary) **2005g:34193**
— *see also* **Li, Chuandong et al., 2005b:93142; 2005g:93094; 2005h:34201** *and* **Li, Chun Guang et al.**
Lin, Chang Jun State feedback controls of linear delay systems. (Chinese. English and Chinese summaries)
Lincoln, Bo *see* **Kao, Chung-Yao**
Liu, Bin[2] Controllability of neutral functional differential and integrodifferential inclusions with infinite delay. (English summary) **2005g:93015**
Liu, Guo-Ping *see* **He, Yong[3] et al., 2005i:93068** *and* **Wu, Min[2] et al.**
Liu, Guo Rong *see* **Luo, Yi Ping et al.**
Liu, Mei Qin *see* **Tong, Qing Yi et al.**
Liu, Pin-Lin Delay-dependent asymptotic stabilization for uncertain time-delay systems with saturating actuators. (English summary) **2005k:93203**
Liu, Ping[1] *see* **Li, Yong Kun et al., 2005d:34151**
Liu, Xiao Ping[2] *see* **Chen, Bing[2], 2005b:93090**
Liu, Xiao Zhi (*with* Jing, Yuan Wei; Zhang, Si Ying) Robust decentralized stabilization for uncertain interconnected delayed systems using reduction method. (Chinese. English and Chinese summaries)
— (*with* Li, Hua; Jing, Yuan Wei; Zhang, Si Ying) Observer-based robust decentralized stabilization for a class of uncertain interconnected time-delay systems. (Chinese. English and Chinese summaries)
Liu, Xin Zhi (*with* Teo, Kok Lay; Zhang, Yi[2]) Absolute stability of impulsive control systems with time delay. (English summary) **2005m:93137**
Liu, Xingwen (*with* Zhang, Hongbin[1]; Zhang, Fengli) Delay-dependent stability of uncertain fuzzy large-scale systems with time delays. (English summary)
Liu, Ya *see* **Hu, Shou Song, 2005f:93050**
Liu, Zi-Kuan *see* **Boukas, E. K., 2005a:93130**
von Loewenich, Clemens *see* **Just, Wolfram et al., 2005k:37065**
Lohmann, B. *see* **Karimi, H. R. et al., 2005k:93068**
Loiseau, Jean Jacques *see* **Van Assche, Vincent et al., 2005a:93072**
Lorenzo, Nieves *see* **Montejo, Noelia et al., (2005d:92001)**
Lozano Leal, Rogelio (*with* Gil, Pedro Garcia; Castillo, Pedro; Dzul, Alejandro) Robust prediction-based control for unstable delay systems. (English summary) (*see* **2005d:93003**)
— (*with* Castillo, Pedro; Garcia, Pedro; Dzul, Alejandro) Robust prediction-based control for unstable delay systems: application to the yaw control of a mini-helicopter. (English summary)
Lu, Chien-Yu *see* **Tsai, Jason Sheng Hong et al., 2005e:93156**
Lu, Ren Quan (*with* Huang, Wen Jun; Su, Hong Ye; Chu, Jian) Robust H_∞ control for a class of uncertain Lurie singular systems with time-delays. (Chinese. English and Chinese summaries)
Lu, Xiao Mei *see* **Chen, Wu Hua et al., 2005e:93044** *and* **2005k:93233**
Lucas, Caro *see* **Karimi, H. R. et al., 2005g:93072**
Luk′yanov, A. G. (*with* Castillo-Toledo, B.; Escoto Hernández, Jaime; Núñez-Perez, E.) On the problem of tracking for a class of linear systems with delays and sliding modes. (English summary) **2005b:93034**
Luo, Xue Bo *see* **Li, Hong Fei**
Luo, Yi Ping (*with* Deng, Fei Qi; Liu, Guo Rong) LMI-based approach for stabilization of distributed parameter control systems with delay. (Chinese. English and Chinese summaries)
Luzyanina, Tatyana *see* **Roose, Dirk et al., (2005d:93003)**
Mahmoud, Magdi S. ★ Resilient control of uncertain dynamical systems. **2005b:93004**
— New results on linear parameter-varying time-delay systems. (English summary) **2005i:93079**
— (*with* Ismail, Abdulla) New results on delay-dependent control of time-delay systems. (English summary) **2005g:93043**
— (*with* Ismail, Abdulla) Robust performance analysis and synthesis of multi-state-delay jumping systems. (English summary) **2005k:93214**
— *see also* **Ismail, Abdulla et al., 2005a:93055; 2005a:93056** *and* **2005g:93120**
Mahmudov, N. I. *see* **Dauer, J. P., 2005h:93011**
(Makoudi, Meryem) *see* **de Mathelin, Michel F.**
Maksimov, Vyacheslav I. (*with* Skuratov, E. N.; Pandolfi, Luciano) On the realization of a prescribed motion in a system with aftereffect. (Russian. Russian summary) **2005g:93057**
— On the reconstruction of the structure of a linear system with delay. (Russian. English and Russian summaries) **2005b:93048**
— The method of smoothing functional in inverse control problems for delay systems. (English summary) **2005b:49068**
Márquez-Martínez, Luis Alejandro *see* **Xia, Xiaohua et al., 2005k:93046**
Martinez-Zuñiga, Rodolfo *see* **Basin, Michael V. et al., 2005d:93139** *and* **2005k:93223**
de Mathelin, Michel F. Comments on: "A robust model reference adaptive control for non-minimum phase systems with unknown or time-varying delay" [Automatica J. IFAC **36** (2000), no. 7, 1057–1065; MR1829704] by M. Makoudi and L. Radouane. (English summary)
Matveev, A. S. The instability of optimal control problems to time delay. (English summary) **2005k:49084**
Mazenc, Frédéric (*with* Mondié, Sabine; Niculescu, Silviu-Iulian) On the stabilization of systems with bounded and delayed input. (English summary) **2005e:93131**
— (*with* Mondié, Sabine; Francisco, R.) Global asymptotic stabilization of feedforward

systems with delay in the input. (English summary) **2005c:93082**
— (*with* Mondié, Sabine; Niculescu, Silviu-Iulian) Global stabilization of oscillators with bounded delayed input. (English summary) **2005f:93140**
Meinsma, Gjerrit (*with* Mirkin, Leonid) H^∞ control of systems with multiple I/O delays via decomposition to adobe problems. (English summary) **2005k:93070**
Metel'skiĭ, A. V. (*with* Minyuk, S. A.) On constructive methods for solving dual problems of the controllability and identifiability of linear systems of neutral type. (Russian. Russian summary) **2005a:93022**
Michiels, Wim (*with* Mondié, Sabine; Roose, Dirk; Dambrine, Michel) The effect of approximating distributed delay control laws on stability. (English summary) **2005e:93113**
— (*with* Niculescu, Silviu-Iulian; Moreau, Luc[2]) Using delays and time-varying gains to improve the static output feedback stabilizability of linear systems: a comparison. (English summary) **2005e:93132**
— (*with* Van Assche, Vincent; Niculescu, Silviu-Iulian) Stabilization of time-delay systems with a controlled time-varying delay and applications. (English summary) **2005k:93184**
— *see also* **Kharitonov, Vladimir L. et al., 2005g:93104** *and* **Roose, Dirk et al., (2005d:93003)**
Milton, John G. *see* **Cabrera, Juan Luis, 2005c:93053**
Minyuk, S. A. *see* **Metel'skiĭ, A. V., 2005a:93022**
Mirkin, Leonid *see* **Meinsma, Gjerrit, 2005k:93070**
Mondié, Sabine *see* **Mazenc, Frédéric et al., 2005c:93082; 2005e:93131; 2005f:93140; Michiels, Wim et al., 2005e:93113** *and* **Kharitonov, Vladimir L. et al., 2005k:93151**
Montejo, Noelia (*with* Lorenzo, Nieves; Pérez-Muñuzuri, Vicente; Pérez-Villar, Vicente) Control of the behavior in a neuronal system with time-delay. (English summary) (*see* **2005d:92001**)
Montgomery, K. A. (*with* Silber, Mary) Feedback control of travelling wave solutions of the complex Ginzburg-Landau equation. (English summary) **2005g:93097**
Moog, Claude H. *see* **Xia, Xiaohua et al., 2005k:93046**
Moon, Young Soo *see* **Lee, Young Sam et al., 2005m:93047**
Moore, Kevin L. *see* **Chen, Yang Quan**
Moreau, Luc[2] *see* **Michiels, Wim et al., 2005e:93132**
Moreno, Jaime A. *see* **Kharitonov, Vladimir L. et al., 2005g:93104**
Moshiri, B. *see* **Karimi, H. R. et al., 2005g:93072** *and* **2005k:93068**
Mukaidani, Hiroaki An LMI approach to decentralized guaranteed cost control for a class of uncertain nonlinear large-scale delay systems. (English summary) **2005f:93054**
Nandakumaran, Akambadath K. *see* **George, Raju K. et al., 2005j:93011**
Nguyễn Khoa So'n *see* **Pham Huu Anh Ngoc, 2005c:34150**
Niculescu, Silviu-Iulian *see* **Advances in time-delay systems, 2005d:93003; Taoutaou, Damia et al., 2005e:93117; Mazenc, Frédéric et al., 2005e:93131; 2005f:93140; Michiels, Wim et al., 2005e:93132; 2005k:93184; Kharitonov, Vladimir L. et al., 2005g:93104** *and* **Ivănescu, Dàn et al.**
Ntouyas, Sotiris K. *see* **Benchohra, Mouffak, 2005e:93011**
Núñez-Perez, E. *see* **Luk'yanov, A. G. et al., 2005b:93034**
Olgac, Nejat (*with* Sipahi, Rifat) A practical method for analyzing the stability of neutral type LTI-time delayed systems. (English summary)
Orlov, Yuri V. *see* **Belkoura, Lotfi et al., 2005e:93037**
Özbay, Hitay *see* **Quet, Pierre-François, 2005a:90026**
Pandolfi, Luciano *see* **Maksimov, Vyacheslav I. et al., 2005g:93057**
Park, Juhyun[1] (*with* Kwon, O. M.; Lee, Seongno; Won, Sangchul) On robust $\mathscr{H}_\infty$ filter design for uncertain neural systems: LMI optimization approach. (English summary) **2005e:93050**
— Robust non-fragile guaranteed cost control of uncertain large-scale systems with time-delays in subsystem interconnections. (English summary) **2005b:93136**
— (*with* Kwon, O. M.) On robust stabilization for neutral delay-differential systems with parametric uncertainties and its application. (English summary) **2005h:93140**
— Dynamic output guaranteed cost controller for neutral systems with input delay. (English summary) **2005f:93155**
— (*with* Choi, Kwonhue) Guaranteed cost control for uncertain nonlinear neutral systems via memory state feedback. (English summary)
— (*with* Kwon, O. M.) Controlling uncertain neutral dynamic systems with delay in control input. (English summary) **2005m:93129**
— Delay-dependent criterion for guaranteed cost control of neutral delay systems. (English summary) **2005m:93130**
— *see also* **Kwon, O. M., 2005f:93126**
Park, PooGyeon *see* **Lee, Young Sam et al., 2005m:93047**
Parmuzin, Evgeny I. *see* **Baker, Christopher T. H., 2005i:34104**
Parsheva, E. A. Adaptive decentralized control of multiply connected plants with control delay. (Russian. Russian summary) **2005g:93005**
Partington, Jonathan R. (*with* Bonnet, Catherine) H_∞ and BIBO stabilization of delay systems of neutral type. (English summary) **2005d:93055**
— *see also* **Bonnet, Catherine, 2005e:93140** *and* **2005k:93060**
Pérez-Muñuzuri, Vicente *see* **Montejo, Noelia et al., (2005d:92001)**
Pérez-Villar, Vicente *see* **Montejo, Noelia et al., (2005d:92001)**
Peyton Jones, J. C. Practical frequency response analysis of non-linear time-delayed differential or difference equation models. (English summary) **2005h:93107**
Pham Huu Anh Ngoc (*with* Nguyễn Khoa So'n) Stability radii of linear systems under multi-perturbations. (English summary) **2005c:34150**
Pietrabissa, Antonio *see* **Delli Priscoli, Francesco**
Ponomarenko, Vladimir I. *see* **Prokhorov, M. D. et al.**
Popescu, Dan[2] *see* **Răsvan, Vladimir, 2005e:93134** *and* **2005k:93188**
Prokhorov, M. D. (*with* Ponomarenko, Vladimir I.; Karavaev, A. S.; Bezruchko, B. P.) Reconstruction of time-delayed feedback systems from time series. (English summary)
Qi, Li *see* **Zhang, You et al., 2005e:93053**
Qin, Mao Chang *see* **Fan, Gui Hong et al., 2005b:34136**
Qu, Yuzhong *see* **Cao, Jin De et al., 2005f:93122**
Quan, Sheng Hui (*with* Li, Wen Lin) Observer design based on time-delay systems with nonlinear disturbance. (Chinese. English and Chinese summaries)
Quet, Pierre-François (*with* Özbay, Hitay) On the design of AQM supporting TCP flows using robust control theory. (English summary) **2005a:90026**
Rabah, Rabah (*with* Sklyar, Grigory M.) Strong stabilizability for a class of linear time delay systems of neutral type. (English summary) **2005h:93142**
(Radouane, Larbi) *see* **de Mathelin, Michel F.**
Răsvan, Vladimir (*with* Popescu, Dan[2]) Control and stabilization of discretized systems with delay in control. (English summary) **2005k:93188**
— (*with* Popescu, Dan[2]) Control of systems with input delay—an elementary approach. (English summary) **2005e:93134**
Reinoso, O. *see* **Azorin, J. M. et al.**
Remmers, John E. *see* **Topor, Zbigniew L. et al.**
Ren, Gexue *see* **Wu, Shaobo, 2005f:34218**
Richard, Jean-Pierre *see* **Belkoura, Lotfi et al., 2005e:93037**
Rodriguez, Salvador A. (*with* Dion, Jean-Michel; Dugard, Luc) Robust delay dependent stability analysis of neutral systems. (English summary) **2005h:93126**
— (*with* Kharitonov, Vladimir L.; Dion, Jean-Michel; Dugard, Luc) Robust stability of neutral systems: a Lyapunov-Krasovskii constructive approach. (English summary) **2005e:93115**
Rodriguez Gonzalez, Jesus G. *see* **Basin, Michael V. et al., 2005k:93223**
Roose, Dirk (*with* Luzyanina, Tatyana; Engelborghs, Koen; Michiels, Wim) Software for stability and bifurcation analysis of delay differential equations and applications to stabilization. (English summary) (*see* **2005d:93003**)
— *see also* **Michiels, Wim et al., 2005e:93113**
Ryan, Eugene P. *see* **Ilchmann, Achim et al., 2005k:93179**
Sakthivel, R. (*with* Choi, Q-Heung; Anthoni, S. Marshal) Controllability result for nonlinear evolution integrodifferential systems. (English summary) **2005f:93020**
Sangwin, C. J. *see* **Ilchmann, Achim, 2005d:93113**
de la Sen, Manuel Sufficiency-type stability and stabilization criteria for linear time-invariant systems with constant point delays. (English summary) **2005e:34236**
— Pole placement controllers for linear time-delay systems with commensurate point delays. (English summary) **2005h:93080**
— Adaptive control of time-varying systems with time-varying delays. (English summary) **2005f:93094**
Sename, Olivier *see* **Fattouh, Anas, 2005e:93024**
Shaked, U. *see* **Fridman, Emilia**
Shang, Yun *see* **Chen, Mao Yin et al., 2005h:93129**
She, Jin-Hua *see* **He, Yong[3] et al., 2005i:93068** *and* **Wu, Min[2] et al.**
Sheng, An Dong *see* **Li, Yin Ya et al.**
Sheng, Jie[2] (*with* Sun, Jian-Qiao) Feedback controls and optimal gain design of delayed periodic linear systems. (English summary)
Shi, Peng (*with* Boukas, E. K.) On H_∞ control design for singular continuous-time delay systems with parametric uncertainties. (English summary) **2005a:93060**
— *see also* **Hua, Changchun et al., 2005b:93147; 2005m:93023; 2005m:93086; Ismail, Abdulla et al., 2005g:93120** *and* **Guan, Xin Ping et al., 2005k:93159**
Shieh, Cheng-Shion Observer-based H_∞ controller for perturbed system with state and input delays. (English summary) **2005b:93060**
Shu, Huisheng (*with* Wei, Guoliang) H_∞ analysis of nonlinear stochastic time-delay systems. (English summary)
Shu, Wei Ren (*with* Zhang, Qing Ling) Robust and non-fragile H_∞ control for uncertain singular systems with time-delay in state. (Chinese. English and Chinese summaries)
Silber, Mary *see* **Montgomery, K. A., 2005g:93097**
Sipahi, Rifat *see* **Olgac, Nejat**
Sklyar, Grigory M. *see* **Rabah, Rabah, 2005h:93142**
Skogestad, Sigurd Simple analytic rules for model reduction and PID controller tuning. (English summary)
Skuratov, E. N. *see* **Maksimov, Vyacheslav I. et al., 2005g:93057**
Song, Qian Kun Criteria for exponential stability of time-varying interval Lurie control systems with multi-delay. (Chinese. English and Chinese summaries)
Su, Hong Ye (*with* Xiang, Ji; Chu, Jian) New results of robust quadratically stabilizing control for uncertain linear time-delay systems. (English summary) **2005k:93207**
— *see also* **Lu, Ren Quan et al.**
Su, Shun-Feng *see* **Chang, Yuan-Chang et al., 2005f:93097**
Su, Te-Jen *see* **Tsai, Jason Sheng Hong et al., 2005e:93156**
Sun, Jian-Qiao *see* **Sheng, Jie[2]**
Sun, Wen An *see* **Sun, Xi Ming et al.**
Sun, Xi Ming (*with* Zhao, Jun[2]; Chen, Bing[2]) Robust H-infinity reliable control for a class of nonlinear uncertain neutral delay systems. (English summary)
— (*with* Chen, Bing[2]; Sun, Wen An; Zhao, Jun[2]) Design of delay-dependent observer for a class of neutral delay. (Chinese. English and Chinese summaries)
Suyama, Koichi An internally stable realization of a finite-dimensional approximation of a delay element. (English summary) **2005b:93061**
Tang, Yun *see* **Du, Dongyun, 2005d:34155**
Tang, Zhong *see* **Birdwell, J. Douglas et al., (2005d:93003)**
Taoutaou, Damia (*with* Niculescu, Silviu-Iulian; Gu, Keqin) Robust stability of teleoperation schemes subject to constant and time-varying communication delays. (English summary) **2005e:93117**
Teo, Kok Lay *see* **Liu, Xin Zhi et al., 2005m:93137**
Tingey, D. (*with* Busawon, K.; Danaher, S.; Waterworth, G.) A control design for linear time-delay systems. (English summary)
Tong, Qing Yi (*with* Liu, Mei Qin; Yan, Gang Feng; Zhao, Guang Zhou) Stability of hybrid systems with time-varying delayed perturbations. (Chinese. English and Chinese summaries)
Topor, Zbigniew L. (*with* Vasilakos, Konstantinon; Remmers, John E.) Interaction of two chemoreflex loops in determining ventilatory stability. (English summary)
Trenn, Stephan *see* **Ilchmann, Achim et al., 2005k:93179**
Tsai, Hsun-Heng *see* **Fuh, Chyun-Chau et al.**
Tsai, Jason Sheng Hong (*with* Lu, Chien-Yu; Su, Te-Jen) Robust Kalman filtering for delay-dependent interval systems. (English summary) **2005e:93156**
Tung, Pi-Cheng *see* **Fuh, Chyun-Chau et al.**
Uchida, Kenko (*with* Fujita, Masayuki[1]; Ikeda, Kojiro) Another look at finite horizon H^∞ control problems for systems with input delays. (English summary)
Udwadia, Firdaus E. (*with* von Bremen, Hubertus F.; Kumar, Ravi; Hosseini, Mohamed) Time delayed control of structural systems. (English summary) **2005b:93075**

Van Assche, Vincent (*with* Lafay, J.-F.; Loiseau, Jean Jacques) Feedback realization of non-singular precompensators for linear systems over a polynomial ring. (English summary) **2005a:93072**
— *see also* **Michiels, Wim et al., 2005k:93184**
Vasilakos, Konstantinon *see* **Topor, Zbigniew L. et al.**
Verduyn Lunel, Sjoerd M. Spectral theory for neutral delay equations with applications to control and stabilization. (English summary) **2005i:34107**
— *see also* **Hale, Jack K., 2005a:34112**
Verriest, Erik I. *see* **Ivănescu, Dan et al.**
Volkanin, L. S. *see* **Kim, A. V. et al., 2005b:93066** *and* **2005k:49101**
Wang, Chang Hong[1] *see* **Gao, Huijun et al., 2005a:93054** *and* **2005g:93027**
Wang, Haibo *see* **Zhong, Maiying et al., 2005f:93044**
Wang, Houjun *see* **Li, Chun Guang et al.**
Wang, Huailei *see* **Wang, Zai Hua et al.**
Wang, Jun[3] *see* **Cao, Jin De, 2005a:93125** *and* **2005j:93056**
Wang, Long[1] *see* **Hao, Fei et al., 2005c:93070** *and* **Wang, Zhi Zhen et al.**
Wang, Qing[6] (*with* Lam, James; Xu, Sheng Yuan; Gao, Huijun) Delay-dependent and delay-independent energy-to-peak model approximation for systems with time-varying delay. (English summary)
— *see also* **Gao, Huijun et al., 2005g:93027**
Wang, Tsewei *see* **Birdwell, J. Douglas et al., (2005d:93003)**
Wang, Wei[8] *see* **Cui, Bao Tong et al.**
Wang, Yuan Gang *see* **Li, Yin Ya et al.**
Wang, Zai Hua (*with* Hu, Hai Yan; Küpper, Tassilo) Robust Hurwitz stability test for linear systems with uncertain commensurate time delays. (English summary) **2005c:93075**
— (*with* Hu, Hai Yan; Wang, Huailei) Robust stabilization to non-linear delayed systems via delayed state feedback: the averaging method. (English summary)
Wang, Zhi Zhen (*with* Wang, Long[1]; Yu, Wen Sheng) Analysis on the robustness of two classes of uncertain systems with time delay. (Chinese. English and Chinese summaries)
Wang, Zhongdong *see* **Huang, Jian et al.**
Wang, Zi Dong[1] (*with* Ho, Daniel W. C.) Filtering on nonlinear time-delay stochastic systems. (English summary)
Watanabe, Keiji *see* **Izuta, Guido, 2005b:93049**
Waterworth, G. *see* **Tingey, D. et al.**
Wei, Guoliang *see* **Shu, Huisheng**
Wen, John T. *see* **Fan, Xingzhe et al., 2005b:93145**
Won, Sangchul *see* **Park, Juhyun[1] et al., 2005e:93050**
Wong, Kwok-Wo *see* **Li, Chuandong et al., 2005b:93142** *and* **Liao, Xiaofeng et al., 2005g:34193**
Wu, Min[2] (*with* He, Yong[3]; She, Jin-Hua; Liu, Guo-Ping) Delay-dependent criteria for robust stability of time-varying delay systems. (English summary)
— (*with* He, Yong[3]; She, Jin-Hua) New delay-dependent stability criteria and stabilizing method for neutral systems. (English summary)
— *see also* **He, Yong[3] et al., 2005i:93068**
Wu, Shaobo (*with* Ren, Gexue) Delay-independent stability criteria for a class of retarded dynamical systems with two delays. (English summary) **2005f:34218**
Xia, Xiaohua (*with* Márquez-Martínez, Luis Alejandro; Zagalak, Petr; Moog, Claude H.) Analysis of nonlinear time-delay systems using modules over non-commutative rings. (English summary) **2005k:93046**
Xia, Yuan-Qing Author's reply: "Comments and improvement on: 'Robust control of state delayed systems with polytopic type uncertainties via parameter-dependent Lyapunov functionals'" [Systems Control Lett. **53** (2004), no. 3-4, 321–323; MR2092523] by L. Yu.
— *see also* **Yu, Li[1]**
Xian, Bin *see* **Dadfarnia, Mohsen et al., 2005a:74043**
Xiang, Ji *see* **Su, Hong Ye et al., 2005k:93207**
Xie, Lihua *see* **Zhang, Huanshui et al.**
Xu, Bugong Stability criteria for linear systems with multiple time-varying delays. (English summary) **2005d:34166**
Xu, Jian-Xin *see* **Guan, Zhi Hong et al., 2005k:93160**
Xu, Sheng Yuan (*with* Lam, James; Yang, Cheng Wu) Robust H_∞ control for uncertain singular systems with state delay. (English summary) **2005b:93062**
— (*with* Lam, James) On H_∞ filtering for a class of uncertain nonlinear neutral systems. (English summary) **2005a:93063**
— (*with* Lam, James; Zou, Yun) Further results on delay-dependent robust stability conditions of uncertain neutral systems. (English summary) **2005j:93058**
— *see also* **Gao, Huijun et al., 2005a:93054** *and* **Wang, Qing[6] et al.**
Xu, Wen Li[1] *see* **Jiang, Xie Fu et al.**
Yan, Feng *see* **Hu, Pin-hui**
Yan, Gang Feng *see* **Tong, Qing Yi et al.**
Yang, Cheng Wu *see* **Xu, Sheng Yuan et al., 2005b:93062**
Yang, Fan[1] (*with* Zhang, Qing Ling; Yang, Jun) Dynamic output-feedback robust H_∞ control of neutral differential systems with parameter uncertainties. (Chinese. English and Chinese summaries)
— (*with* Zhang, Qing Ling) Robust dynamic output feedback H_∞ control of singular systems with time-varying delays and nonlinear parameter uncertainty. (Chinese. English and Chinese summaries)
Yang, Jun *see* **Yang, Fan[1] et al.**
Yang, Ping-Hua (*with* Ge, Wei Gao) Periodic solution for a delayed ratio-dependent P-P system with feedback control. (English summary)
Yang, Shizhong *see* **Liao, Xiaofeng et al., 2005g:34193**
Yoneyama, Jun Design of H_∞-control for fuzzy time-delay systems. (English summary)
Yu, Li[1] Comments and improvement on: "Robust control of state delayed systems with polytopic type uncertainties via parameter-dependent Lyapunov functionals" [Systems Control Lett. **50** (2003), no. 3, 183–193; MR2010811 (2004g:93118)] by Y. Xia and Y. Jia. (English summary)
— *see also* **Xia, Yuan-Qing**
Yu, Mei[3] *see* **Hao, Fei et al., 2005c:93070**
Yu, Wen Sheng *see* **Wang, Zhi Zhen et al.**
Yu, Wen-Shyong H_∞ tracking-based adaptive fuzzy-neural control for MIMO uncertain robotic systems with time delays. (English summary) **2005b:93094**
Yue, Dong Robust stabilization of uncertain systems with unknown input delay. (English summary)
— (*with* Lam, James) Suboptimal robust mixed H_2/H_∞ controller design for uncertain descriptor systems with distributed delays. (English summary) **2005b:93070**
— (*with* Lam, James; Ho, Daniel W. C.) Delay-dependent robust exponential stability of uncertain descriptor systems with time-varying delays. (English summary) **2005f:93130**
— (*with* Han, Qing-Long) Delay-dependent exponential stability of stochastic systems with time-varying delay, nonlinearity, and Markovian switching. (English summary)
— (*with* Lam, James) Non-fragile guaranteed cost control for uncertain descriptor systems with time-varying state and input delays. (English summary) **2005j:93026**
Zagalak, Petr *see* **Xia, Xiaohua et al., 2005k:93046**
Zhabko, A. P. *see* **Kharitonov, Vladimir L., 2005k:93161**
Zhang, David[1] *see* **Zhang, Huanshui et al.**
Zhang, Fengli *see* **Liu, Xingwen et al.**
Zhang, Hongbin[1] *see* **Liu, Xingwen et al.**
Zhang, Huanshui (*with* Zhang, David[1]; Xie, Lihua) An innovation approach to H_∞ prediction for continuous-time systems with application to systems with delayed measurements. (English summary)
Zhang, Hui Ying (*with* Chen, Feng De) Permanence and positive periodic solution of an n-species nonautonomous periodic competition system with feedback controls. (Chinese. English and Chinese summaries)
Zhang, Peng[5] *see* **Fu, Yan Ming et al.**
Zhang, Qing Ling *see* **Yang, Fan[1] et al.** *and* **Shu, Wei Ren**
Zhang, Rong[3] *see* **Li, Chuandong et al., 2005h:34201**
Zhang, Si Ying *see* **Zhang, You et al., 2005e:93053** *and* **Liu, Xiao Zhi et al.**
Zhang, Yi[2] *see* **Liu, Xin Zhi et al., 2005m:93137**
Zhang, You (*with* Jing, Yuan Wei; Zhang, Si Ying) Observer-based H_∞ control for a class of linear neutral delay systems. (Chinese. English and Chinese summaries)
— (*with* Qi, Li; Jing, Yuan Wei; Zhang, Si Ying) Delay-dependent H_∞ control of linear neutral delay systems. (Chinese. English and Chinese summaries) **2005e:93053**
Zhao, Guang Zhou *see* **Tong, Qing Yi et al.**
Zhao, Jun[2] *see* **Sun, Xi Ming et al.**
Zheng, Ying[3] (*with* Fang, Hua Jing) Robust fault tolerant control of networked control system with time-varying delays. (Chinese. English and Chinese summaries)
Zhong, Maiying (*with* Ding, Steven Xianchun; Lam, James; Wang, Haibo) An optimization approach to fault detection observer design for neutral delay systems. (English summary) **2005f:93044**
Zhong, Qing-Chang Frequency domain solution to delay-type Nehari problem. (English summary)
— Correction to: "Frequency domain solution to delay-type Nehari problem [Automatica J. IFAC **39** (2003), no. 3, 499–508; MR2138091].
— On distributed delay in linear control laws. I. Discrete-delay implementations. (English summary) **2005g:93045**
Zhou, Chuan[1] *see* **Zhu, Zhang Qing et al.**
Zhou, Dong Hua *see* **Chen, Mao Yin et al., 2005h:93129**
Zhou, Yu Cheng *see* **Chen, Bing[2]**
Zhu, Lifei *see* **Li, Yong Kun et al., 2005d:34151**
Zhu, Qixin *see* **Hu, Shou Song**
Zhu, Zhang Qing (*with* Zhou, Chuan[1]; Hu, Wei Li) Design of robust H_2/H_∞ states observer for networked control systems with short time-delay. (Chinese. English and Chinese summaries)
Zou, Yun *see* **Xu, Sheng Yuan et al., 2005j:93058**
Zuber, I. E. Solution of the stabilization problem for a class of nonlinear systems with retarded argument. (Russian. English and Russian summaries) **2005c:93090**
— Synthesis of a stabilizing output control for a class of nonlinear systems with retarded argument. (Russian. English and Russian summaries) **2005e:93138**

Items listed otherwise than by author

Advances in time-delay systems ★ Advances in time-delay systems. **2005d:93003**
Lecture Notes in Control and Information Sciences *see* **Mahmoud, Magdi S., 2005b:93004**

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Bounit, Hamid (*with* Idrissi, Abdelali) Regular bilinear systems. (English summary) **2005j:93043**
Idrissi, Abdelali *see* **Bounit, Hamid, 2005j:93043**
Jacob, Birgit (*with* Zwart, Hans) Counterexamples concerning observation operators for C_0-semigroups. (English summary) **2005f:93086**
Otsuka, Naohisa A note on generalized invariant subspaces for infinite-dimensional systems. (English summary) **2005i:93052**
Staffans, Olof J. (*with* Weiss, George) Transfer functions of regular linear systems. III. Inversions and duality. (English summary) **2005g:93067**
Truffet, L. Comparison and classification of linear systems over idempotent semirings inspired by total positivity. (English summary) **2005m:93081**
Uetake, Yoichi Some local properties of spectrum of linear dynamical systems in Hilbert space. (English summary) **2005k:93114**
Weiss, George *see* **Staffans, Olof J., 2005g:93067**
Zwart, Hans Transfer functions for infinite-dimensional systems. (English summary) **2005c:93049**
— *see also* **Jacob, Birgit, 2005f:93086**

Items with secondary classifications in 93C25

Abrahamsen, Rune B. *see* **Niemann, Hans Henrik et al., 2005b:93135**
Ahmed, N. U. Controllability of evolution equations and inclusions driven by vector measures. (English summary) **2005i:93009**
— Optimal control for evolution equations with discontinuous vector fields. (English summary) **2005e:49007**

— Measure solutions for evolution equations with discontinuous vector fields. (English summary) **2005f:34168**
Anandhi, E. R. *see* **Balachandran, Krishnan**, **2005h:93006**
Arara, Amaria (*with* Benchohra, Mouffak; Ouahab, Abdelghani) Some uniqueness results on controllability for functional semilinear differential equations in Fréchet spaces. (English and Ukrainian summaries) **2005f:34230**
Balachandran, Krishnan (*with* Anandhi, E. R.) Controllability of neutral functional integrodifferential infinite delay systems in Banach spaces. (English summary) **2005h:93006**
Bamieh, Bassam *see* **Jovanović, Mihailo R.**, **2005i:93006**
Bârză, Sorina (*with* Buşe, Constantin; Pečarić, Josip E.) New characterizations of asymptotic stability for evolution families on Banach spaces. (English summary) **2005b:34112**
Benchohra, Mouffak (*with* Ouahab, Abdelghani) Controllability results for functional semilinear differential inclusions in Fréchet spaces. (English summary) **2005k:34237**
— *see also* **Arara, Amaria et al.**, **2005f:34230**
Billings, Stephen A. *see* **Coca, Daniel**
Bondarko, V. A. (*with* Fradkov, A. L.) Necessary and sufficient conditions for passivability of linear distributed systems. (Russian. Russian summary) **2005i:93077**
Bourray, H. *see* **Zerrik, E. et al.**, **2005e:93026**
Bovyrin, A. V. *see* **Brusin, V. A.**, **2005h:93049**
Brusin, V. A. (*with* Bovyrin, A. V.) Construction of a class of finite H^∞ controllers for infinite-dimensional systems. (English summary) **2005h:93049**
Buşe, Constantin *see* **Bârză, Sorina et al.**, **2005b:34112**
Cagri Saglam, H. *see* **Le Van, Cuong**, **2005d:91079**
Cao, Huai Xin (*with* Xu, Zong Ben) Lipschitz operators and the solvability of non-linear operator equations. (English summary) **2005h:47111**
Chentsov, A. G. The abstract problem of attainability under constraints of an asymptotic nature. (Russian) **2005e:93006**
Chilarescu, Constantin (*with* Pogan, Alin; Preda, Ciprian) On the connection between the exponential stability of C_0-semigroups and the admissibility of a certain Sobolev space. (English summary) **2005f:34162**
Coca, Daniel (*with* Billings, Stephen A.) Identification of finite dimensional models of infinite dimensional dynamical systems. (English summary)
Curtain, Ruth F. Model reduction for control design for distributed parameter systems. **2005d:93027**
— Riccati equations for stable well-posed linear systems: the generic case. (English summary) **2005c:49070**
— (*with* Logemann, Hartmut; Staffans, Olof J.) Absolute-stability results in infinite dimensions. (English summary) **2005b:93131**
— *see also* **Opmeer, Mark R.**, **2005m:49061**
Dauer, J. P. (*with* Mahmudov, N. I.) Exact null controllability of semilinear integrodifferential systems in Hilbert spaces. (English summary) **2005f:93010**
— (*with* Mahmudov, N. I.) Controllability of some nonlinear systems in Hilbert spaces. (English summary) **2005h:93011**
Divya *see* **Sukavanam, N.**
El Jaï, Abdelhak *see* **Zerrik, E. et al.**, **2005e:93026**
Fattorini, H. O. Vanishing of the costate in Pontryagin's maximum principle and singular time optimal controls. (English summary) **2005a:49049**
Fedorov, V. E. (*with* Ruzakova, O. A.) One- and two-dimensional controllability of Sobolev-type equations in Banach spaces. (Russian. Russian summary) **2005e:93014**
Feng, De Xing *see* **Xu, Cheng-Zhong[1]**, **2005m:93142**
Fradkov, A. L. *see* **Bondarko, V. A.**, **2005i:93077**
Gatsori, E. P. Controllability results for nondensely defined evolution differential inclusions with nonlocal conditions. (English summary) **2005d:34135**
Grabowski, Piotr On the circle criterion for boundary control systems in factor form. (English summary) **2005a:93040**
Gümüşsoy, Suat (*with* Özbay, Hitay) On the mixed sensitivity minimization for systems with infinitely many unstable modes. (English summary) **2005d:93053**
Guo, Bao Zhu (*with* Xu, Gen Qi) Riesz bases and exact controllability of C_0-groups with one-dimensional input operators. (English summary) **2005c:93016**
Ha, Junhong (*with* Nakagiri, Shin-ichi) Identification problems for the system governed by abstract nonlinear damped second order evolution equations. (English summary) **2005b:93046**
Immonen, Eero On the concept of point value in the infinite-dimensional realization theory. (English summary) **2005j:93018**
Jacob, Birgit (*with* Partington, Jonathan R.) Admissibility of control and observation operators for semigroups: a survey. (English summary) **2005c:93023**
— (*with* Partington, Jonathan R.) Admissible control and observation operators for Volterra integral equations. (English summary) **2005i:93019**
Jovanović, Mihailo R. (*with* Bamieh, Bassam) Lyapunov-based distributed control of systems on lattices. (English summary) **2005i:93006**
Kobayashi, Toshihiro Stabilization of infinite-dimensional undamped second order systems by using a parallel compensator. (English summary) **2005a:93135**
Kowalski, Tadeusz (*with* Sadkowski, Wawrzyniec) The null-exact controllability of the generalized wave problem governed by once integrated semigroups. (English summary) **2005f:93016**
Kunimatsu, Noboru Robust stability of population dynamical systems. (English summary)
Latushkin, Yu. D. (*with* Räbiger, Frank) Operator valued Fourier multipliers and stability of strongly continuous semigroups. (English summary) **2005m:42022**
— (*with* Randolph, Timothy; Schnaubelt, Roland) Regularization and frequency-domain stability of well-posed systems. (English summary) **2005m:93143**
Le Van, Cuong (*with* Cagri Saglam, H.) Optimal growth models and the Lagrange multiplier. (English summary) **2005d:91079**
Li, Guocheng (*with* Song, Shi Ji; Wu, Cheng[3]) Controllability of evolution inclusions with nonlocal conditions. (English summary) **2005k:93016**
Liu, Bin[2] Controllability of nonlinear neutral evolution integrodifferential systems with infinite delay. (English summary) **2005g:93014**
Logemann, Hartmut *see* **Curtain, Ruth F. et al.**, **2005b:93131**
Mahmudov, N. I. *see* **Dauer, J. P.**, **2005f:93010** *and* **2005h:93011**
Marchenko, Vladimir Matveevich (*with* Shklyar, B.) Approximate controllability of distributed systems with bounded input operator by distributed controller. (English summary) **2005f:93017**
Nakagiri, Shin-ichi *see* **Ha, Junhong**, **2005b:93046**
van Neerven, J. M. A. M. Null controllability and the algebraic Riccati equation in Banach spaces. (English summary) **2005k:93021**
Niemann, Hans Henrik (*with* Stoustrup, Jakob; Abrahamsen, Rune B.) Switching between multivariable controllers. (English summary) **2005b:93135**
Opmeer, Mark R. (*with* Curtain, Ruth F.) New Riccati equations for well-posed linear systems. (English summary) **2005m:49061**
Ouahab, Abdelghani *see* **Arara, Amaria et al.**, **2005f:34230** *and* **Benchohra, Mouffak**, **2005k:34237**
Özbay, Hitay *see* **Gümüşsoy, Suat**, **2005d:93053**
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Pogan, Alin *see* **Chilarescu, Constantin et al.**, **2005f:34162**
Preda, Ciprian *see* **Chilarescu, Constantin et al.**, **2005f:34162**
Räbiger, Frank *see* **Latushkin, Yu. D.**, **2005m:42022**
Randolph, Timothy *see* **Latushkin, Yu. D. et al.**, **2005m:93143**
Rozanova, A. V. Controllability for a nonlinear abstract evolution equation. (Russian. Russian summary) **2005h:93021**
Ruzakova, O. A. *see* **Fedorov, V. E.**, **2005e:93014**
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Stoustrup, Jakob *see* **Niemann, Hans Henrik et al.**, **2005b:93135**
Sukavanam, N. (*with* Divya) Approximate controllability of abstract semilinear deterministic control system. (English summary)
Vieru, Alina On null controllability of linear systems in Banach spaces. (English summary) **2005m:93018**
Vũ Ngọc Phát Nonlinear H_∞ control in Hilbert spaces via Riccati operator equation. (English summary) **2005a:93062**
Wu, Cheng[3] *see* **Li, Guocheng et al.**, **2005k:93016**
Xu, Cheng-Zhong[1] (*with* Feng, De Xing) Robust integral stabilization of regular linear systems. (English summary) **2005m:93142**
Xu, Gen Qi *see* **Guo, Bao Zhu**, **2005c:93016**
Xu, Zong Ben *see* **Cao, Huai Xin**, **2005h:47111**
Zerrik, E. (*with* Bourray, H.; El Jaï, Abdelhak) Regional observability for semilinear distributed parabolic systems. (English summary) **2005e:93026**
Zhang, Xu[1] (*with* Zuazua, Enrique) Controllability of nonlinear partial differential equations. (English summary) **2005e:93020**
Zuazua, Enrique *see* **Zhang, Xu[1]**, **2005e:93020**

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Granichin, O. N. (*with* Khantuleva, T. A.) Hybrid systems and randomized measuring in nonequilibrium processes. (English and Russian summaries)
Khantuleva, T. A. *see* **Granichin, O. N.**

Items with secondary classifications in 93C30

Benvenuti, Luca (*with* De Santis, Alberto; Farina, Lorenzo) On model consistency in compartmental systems identification. (English summary)
Cao, Guang Yi *see* **Wang, Zhen Bin et al.**, **2005e:93161**
Chen, De Cheng *see* **Yang, J. B. et al.**
Corduneanu, Constantin (*with* Li, Yizeng) A duality principle in the theory of dynamical systems. (English summary) **2005m:34135**
Cummings, Linda Jane (*with* Waters, S. L.; Wattis, Jonathan A. D.; Graham, S. J.) The effect of ureteric stents on urine flow: reflux. (English summary) **2005d:92009**
De Santis, Alberto *see* **Benvenuti, Luca et al.**
Farina, Lorenzo *see* **Benvenuti, Luca et al.**
Graham, S. J. *see* **Cummings, Linda Jane et al.**, **2005d:92009**
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Li, Yizeng *see* **Corduneanu, Constantin**, **2005m:34135**
Michta, Mariusz On weak solutions to stochastic differential inclusions driven by semimartingales. (English summary) **2005h:34032**
Narang, Atul *see* **Pilyugin, Sergei S. et al.**, **2005j:92024**
Pilyugin, Sergei S. (*with* Reeves, Gregory T.; Narang, Atul) Predicting stability of mixed microbial cultures from single species experiments. I. Phenomenological model. (English summary) **2005j:92024**
Reeves, Gregory T. *see* **Pilyugin, Sergei S. et al.**, **2005j:92024**
Ryzhikh, D. A. *see* **Volodin, A. V. et al.**, **2005d:93005**
Shcheglova, A. A. Observability of degenerate linear hybrid systems with constant coefficients. (Russian. Russian summary) **2005h:93030**
Tang, Wan Sheng (*with* Zou, Ming Neng; Zhang, Li Xia) Estimator design based on extension principles for hybrid dynamic systems. (Chinese. English and Chinese summaries)
Tolstonogov, A. A. Properties of attainable sets of evolution inclusions and control systems of subdifferential type. (Russian. Russian summary) **2005e:93008**
Utkin, O. B. *see* **Volodin, A. V. et al.**, **2005d:93005**
Volodin, A. V. (*with* Krivonozhko, V. E.; Ryzhikh, D. A.; Utkin, O. B.) Construction of three-dimensional sections in the analysis of the efficiency of complex multidimensional systems, based on parametric optimization algorithms. (Russian. Russian summary) **2005d:93005**
Wang, Zhen Bin (*with* Cao, Guang Yi; Zhu, Xin Jian) Identification algorithm for a kind of fractional order system. (English and Chinese summaries) **2005e:93161**
Waters, S. L. *see* **Cummings, Linda Jane et al.**, **2005d:92009**

Wattis, Jonathan A. D. *see* **Cummings, Linda Jane et al., 2005d:92009**
Yang, J. B. (*with* Jiang, L. J.; Chen, De Cheng) Dynamic modelling and control of a rotating Euler-Bernoulli beam. (English summary)
Zhang, Li Xia *see* **Tang, Wan Sheng et al.**
Zhu, Xin Jian *see* **Wang, Zhen Bin et al., 2005e:93161**
Zou, Ming Neng *see* **Tang, Wan Sheng et al.**

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Albrecht, Andreas (*with* Gottschling, Peter; Naumann, Uwe) Markowitz-type heuristics for computing Jacobian matrices efficiently. (English summary) (*see* **2005c:00015**)
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Diversi, Roberto *see* **Guidorzi, Roberto**
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Gottschling, Peter *see* **Albrecht, Andreas et al.,** (**2005c:00015**)
Guidorzi, Roberto (*with* Diversi, Roberto) Minimal representations of MIMO time-varying systems and realization of cyclostationary models. (English summary)
Kaczorek, Tadeusz Generalization of Cayley-Hamilton theorem for n-D polynomial matrices. (English summary) **2005k:93115**
Lampe, Bernhard P. (*with* Rozenvasser, E. N.) A polynomial method for solving the problem of stabilizing multidimensional impulsive systems. (Russian. Russian summary) **2005f:93087**
Marro, Giovanni (*with* Prattichizzo, Domenico; Zattoni, Elena) Convolution profiles for right inversion of multivariable non-minimum phase discrete-time systems. (English summary)
— (*with* Ntogramatzidis, Lorenzo) A feedforward compensation scheme for perfect decoupling of measurable input functions. (English summary) **2005k:93116**
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Ntogramatzidis, Lorenzo *see* **Marro, Giovanni, 2005k:93116**
Orozco, Jorge Luis *see* **Ruiz-León, José Javier et al., 2005m:93082**
Prattichizzo, Domenico *see* **Marro, Giovanni et al.**
Prepeliță, Valeriu (*with* Drăgușin, Constantin) The duality principle in a class of 2D continuous-discrete linear systems. (English summary) **2005d:93076**
Rozenvasser, E. N. *see* **Lampe, Bernhard P., 2005f:93087**
Ruiz-León, José Javier (*with* Orozco, Jorge Luis; Begovich, Ofelia) Closed-loop structure of decouplable linear multivariable systems. (English summary) **2005m:93082**
Wang, Guo Rong[1] *see* **Zheng, Bing, 2005h:93094**
Zattoni, Elena *see* **Marro, Giovanni et al.**
Zheng, Bing (*with* Wang, Guo Rong[1]) Leverrier's algorithm and Cayley-Hamilton theorem for 2-D system. (English summary) **2005h:93094**

Items with secondary classifications in 93C35

(Akçay, Hüseyin) *see* **Petersen, Ian R.**
Albertos, P. (*with* Sala, Antonio) ★ Multivariable control systems. **2005a:93001**
Antoniou, E. N. (*with* Vardulakis, A. I. G.) On the computation and parametrization of proper denominator assigning compensators for strictly proper plants. (English summary) **2005i:93025**
Ball, Joseph A. (*with* Vinnikov, Victor) Overdetermined multidimensional systems: state space and frequency domain methods. (English summary) **2005b:47170**
Cai, Xiu Shan (*with* Han, Zheng Zhi; Kou, Chun Hai) Semiglobally practical stabilization of a class of multivariable nonlinear systems with uncertainty. (Chinese. English and Chinese summaries)
Chen, Tong Wen *see* **Ding, Feng[2], 2005i:93094**
Ding, Feng[2] (*with* Chen, Tong Wen) Hierarchical least squares identification methods for multivariable systems. (English summary) **2005i:93094**
Fornasini, Ettore (*with* Valcher, Maria Elena) Controllability and reachability of 2-D positive systems: a graph theoretic approach. (English summary) **2005m:93011**
Fujii, Takao *see* **Kaneko, Osamu, 2005e:93002**
Guo, Shu-Mei *see* **Zhang, Yongpeng et al., 2005e:93061**
Han, Zheng Zhi *see* **Cai, Xiu Shan et al.**
Helmersson, Anders *see* **McKelvey, Thomas et al.**
Kaneko, Osamu (*with* Fujii, Takao) When is a storage function a state function in discrete time? (English summary) **2005e:93002**
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Lam, James *see* **Xu, Hui Ling et al., 2005i:93035** *and* **Xu, Sheng Yuan et al., 2005m:93155**
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Liu, Ce Richard *see* **Zhang, Yongpeng et al., 2005e:93061**
Liu, Mu Lan *see* **Lu, Peizhong et al., 2005c:16035**
Lozowicki, Adam (*with* Tiano, Antonio) On the design of a high precision robust control system. (English summary) **2005b:93069**
Lu, Peizhong (*with* Liu, Mu Lan; Oberst, Ulrich) Linear recurring arrays, linear systems and multidimensional cyclic codes over quasi-Frobenius rings. (English summary) **2005c:16035**
McKelvey, Thomas (*with* Helmersson, Anders; Ribarits, Thomas) Data driven local coordinates for multivariable linear systems and their application to system identification. (English summary)
Oberst, Ulrich *see* **Lu, Peizhong et al., 2005c:16035**
Paszke, Wojciech *see* **Xu, Sheng Yuan et al., 2005m:93155**
Petersen, Ian R. Multivariable control of noise in an acoustic duct. (English summary)
Postlethwaite, Ian *see* **Turner, Matthew C., 2005e:93058**
Ribarits, Thomas *see* **McKelvey, Thomas et al.**
Rocha, Paula (*with* Zerz, Eva) Strong controllability and extendibility of discrete multidimensional behaviors. (English summary) **2005k:93025**
Sala, Antonio *see* **Albertos, P., 2005a:93001**
Salman, Raied Neural networks of adaptive inverse control systems. (English summary)
Shieh, Leang-San *see* **Zhang, Yongpeng et al., 2005e:93061**
Tiano, Antonio *see* **Lozowicki, Adam, 2005b:93069**
Turner, Matthew C. (*with* Postlethwaite, Ian) Multivariable override control for systems with output and state constraints. (English summary) **2005e:93058**
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Varga, Andras Computation of minimal periodic realizations of transfer-function matrices. (English summary) **2005b:93036**
Vinnikov, Victor *see* **Ball, Joseph A., 2005b:47170**
Xu, Hui Ling (*with* Zou, Yun; Xu, Sheng Yuan; Lam, James) Bounded real lemma and robust H_∞ control of 2-D singular Roesser models. (English summary) **2005i:93035**
Xu, Sheng Yuan (*with* Lam, James; Zou, Yun; Lin, Zhiping; Paszke, Wojciech) Robust H_∞ filtering for uncertain 2-D continuous systems. (English summary) **2005m:93155**
— *see also* **Xu, Hui Ling et al., 2005i:93035**
Zerz, Eva *see* **Rocha, Paula, 2005k:93025**
Zhang, Yongpeng (*with* Shieh, Leang-San; Liu, Ce Richard; Guo, Shu-Mei) Digital PID controller design for multivariable analogue systems with computational input-delay. (English summary) **2005e:93061**
Zou, Yun *see* **Xu, Hui Ling et al., 2005i:93035** *and* **Xu, Sheng Yuan et al., 2005m:93155**

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Akella, Maruthi R. (*with* Subbarao, Kamesh) A novel parameter projection mechanism for smooth and stable adaptive control. (English summary) **2005f:93088**
Aleksandrov, Aleksandr G. Adaptive control with a reference model with external perturbations. (Russian. Russian summary) **2005g:93068**
Alonso-Quesada, S. (*with* de la Sen, Manuel; Bilbao-Guillerna, A.) A supervised discrete adaptive control scheme with multiestimation. (English summary)
Annaswamy, Anuradha M. Active-adaptive control of acoustic resonances in flows. (English summary) (*see* **2005d:93003**)
Astolfi, Alessandro *see* **Rodríguez, Hugo et al.,** (**2005b:93007**)
Bernstein, Dennis S. *see* **Roup, Alexander V., 2005d:93079**
Bessonov, A. A. *see* **Rudenko, O. G.**
Bhoir, Nilesh (*with* Singh, Sahjendra N.) Output feedback modular adaptive control of a nonlinear prototypical wing section. (English summary) **2005f:93089**
Bi, Wei Ping (*with* Mu, Xiao Wu; Yu, Ji Min) Robust adaptive control of a class of nonlinear uncertain systems. (English summary) **2005i:93053**
Bilbao-Guillerna, A. *see* **Alonso-Quesada, S. et al.**
Blanchini, Franco (*with* Giannattasio, Pietro) Adaptive control of compressor surge instability. (English summary)
Cai, Yan Rong *see* **Liu, Fen Lin et al.**
Calise, Anthony J. (*with* Ovakimyan, N. V.; Idan, Moshe) Adaptive output feedback control of nonlinear systems using neural networks. (English summary)
Cao, Guang Yi *see* **Dong, Wei[3] et al.**
Chellaboina, Vijaya-Sekhar *see* **Haddad, Wassim M. et al.**
Chen, Guanrong *see* **Feng, Gang[1], 2005e:93083**
Chen, Lingji (*with* Narendra, Kumpati S.) Nonlinear adaptive control using neural networks and multiple models. (English summary)
Chen, Shuhao (*with* Tao, Gang; Joshi, Suresh Meghashyam) Adaptive actuator failure compensation control for MIMO systems. (English summary) **2005f:93090**
Chen, Yan-Kwang An adaptive control scheme for monitoring serially correlated process data. (English summary)
Choi, Jin Young[1] *see* **Stoev, Julian et al.**
Costa, Ramon R. *see* **Imai, Alvaro K. et al., 2005j:93044**
Czornik, Adam (*with* Świerniak, Andrzej) On adaptive control for the continuous time-varying JLQG problem. (English summary) **2005k:93117**
Dai, Rongyang *see* **Li, Hong[6] et al.**
Dong, Wei[3] (*with* Cao, Guang Yi; Zhu, Xin Jian) Nonlinear modelling and control based on adaptive fuzzy technique for PEMFC. (English summary)
Driollet, Osvaldo A. *see* **Narendra, Kumpati S. et al.,** (**2005a:00024**)
Efimov, D. V. Adaptive control of bifurcation modes in nonautonomous nonlinear systems. (Russian. Russian summary) **2005m:93083**
Farrell, Jay *see* **Stoev, Julian et al.**
Feng, Gang[1] (*with* Chen, Guanrong) Adaptive control of discrete-time chaotic systems: a fuzzy control approach. (English summary) **2005e:93083**
Fidan, Barış (*with* Zhang, Youping; Ioannou, Petros A.) Adaptive control of a class of slowly time varying systems with modeling uncertainties. (English summary) **2005m:93084**
Fiorelli, Edward *see* **Ögren, Petter et al., 2005b:93086**
Fliegner, T. (*with* Logemann, Hartmut; Ryan, Eugene P.) Low-gain integral control of continuous-time linear systems subject to input and output nonlinearities. (English summary)
French, M. (*with* Szepesvári, Cs.; Rogers, Eric) LQ performance bounds for adaptive output feedback controllers for functionally uncertain nonlinear systems. (English summary) **2005k:93118**
George, Koshy *see* **Narendra, Kumpati S. et al.,** (**2005a:00024**)
Giannattasio, Pietro *see* **Blanchini, Franco**
Glumov, V. M. (*with* Zemlyakov, S. D.; Rutkovskiĭ, V. Yu.; Sukhanov, V. M.) Application of a principle for the design of adaptive systems with a reference model to problems of monitoring the current state of transmission shafts. (Russian. Russian summary) **2005f:93091**
— (*with* Krutova, I. N.; Sukhanov, V. M.) An adaptive control system based on fuzzy logic for a large orbiter structured under assembly during orbiting. (Russian. Russian summary)
Gong, Miao Kun *see* **Yang, Chang Li et al.**
Guan, Xin Ping *see* **Hua, Changchun et al., 2005b:93085**
Guo, Lei[1] *see* **Xu, Fei[1] et al.**
Haddad, Wassim M. (*with* Hayakawa, Tomohisa; Chellaboina, Vijaya-Sekhar) Robust adaptive control for nonlinear uncertain systems. (English summary)
— (*with* Hayakawa, Tomohisa) Adaptive control for nonlinear nonnegative dynamical systems. (English summary)
Han, Zhi Gang An integrated approach to modeling and adaptive control. (Chinese. English and Chinese summaries)
Hayakawa, Tomohisa *see* **Haddad, Wassim M. et al.**
He, Tao[2] *see* **Li, Hong[6] et al.**

Hong, Keum-Shik *see* **Yang, Kyung-Jinn et al., 2005b:93087**
Hsieh, K.-Y. *see* **Wai, R.-J. et al.**
Hsu, Liu *see* **Imai, Alvaro K. et al., 2005j:93044**
Hua, Changchun (*with* Guan, Xin Ping) Adaptive control for chaotic systems. (English summary) **2005b:93085**
— (*with* Guan, Xin Ping; Shi, Peng) Adaptive feedback control for a class of chaotic systems. (English summary)
Huang, Minyi *see* **Xu, Fei[1] et al.**
Huang, S. N. (*with* Tan, Kok Kiong; Lee, Tong Heng) An improvement on stable adaptive control for a class of nonlinear systems. (English summary) **2005d:93077**
— *see also* **Tan, Kok Kiong et al., 2005e:93085**
Ibeas, Asier (*with* de la Sen, Manuel) Representations of multi-model based controllers by using artificial intelligence tools. (English and Lithuanian summaries)
Idan, Moshe *see* **Calise, Anthony J. et al.**
Ilchmann, Achim (*with* Ryan, Eugene P.) On tracking and disturbance rejection by adaptive control. (English summary) **2005a:93088**
— (*with* Trenn, Stephan) Input constrained funnel control with applications to chemical reactor models. (English summary) **2005e:93084**
Imai, Alvaro K. (*with* Costa, Ramon R.; Hsu, Liu; Tao, Gang; Kokotović, Petar V.) Multivariable adaptive control using high-frequency gain matrix factorization. (English summary) **2005j:93044**
Ioannou, Petros A. *see* **Fidan, Barış et al., 2005m:93084**
Jing, Yuan Wei *see* **Wang, Qiang De et al., 2005e:93087** *and* **Wei, Xin Jiang et al.**
Joshi, Suresh Meghashyam *see* **Chen, Shuhao et al., 2005f:93090**
Kan, Rui[2] Adaptive switching control of discrete time nonlinear systems based on multiple models. (English summary)
Khorrami, Farshad *see* **Krishnamurthy, Prashanth, 2005k:93119**
Kokotović, Petar V. *see* **Imai, Alvaro K. et al., 2005j:93044**
Krishnamurthy, Prashanth (*with* Khorrami, Farshad) Dynamic high-gain scaling: state and output feedback with application to systems with ISS appended dynamics driven by all states. (English summary) **2005k:93119**
— (*with* Khorrami, Farshad) A high-gain scaling technique for adaptive output feedback control of feedforward systems. (English summary)
Krutova, I. N. *see* **Glumov, V. M. et al.**
Lara-Rosano, F. *see* **Liu, Xiang-Jie**
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Leonard, Naomi Ehrich *see* **Ögren, Petter et al., 2005b:93086**
Li, Chun Tao (*with* Tan, Yong Hong) Observer-based adaptive output feedback control of systems preceded by unknown hysteresis. (Chinese. English and Chinese summaries)
— (*with* Tan, Yong Hong) Neural model-based adaptive control for systems with unknown Preisach-type hysteresis. (English summary) **2005f:93092**
Li, Hong[6] (*with* Zhou, Zhiyuan; Dai, Rongyang; Luo, Bo; Zheng, Xiaoli; Yang, Wenli; He, Tao[2]; Wu, Minglu) Self-adaptive controls of a complex cellular signaling transduction system. (English summary)
Li, Shao Yuan[2] *see* **Wang, Xin[7]**
Li, Wei Feng *see* **Wang, Zhong Sheng et al.**
Liao, Xiao Xin *see* **Wang, Zhong Sheng et al.**
Liu, Fen Lin (*with* Luo, Jun Yong; Cai, Yan Rong) Model-following adaptive robust control for a class of uncertain systems with nonlinear actuators. (Chinese. English and Chinese summaries)
Liu, Xiang-Jie (*with* Lara-Rosano, F.) Model-reference adaptive control using associate memory network. (English summary)
Ljung, Lennart *see* **Poznyak, Alexander S.**
Logemann, Hartmut *see* **Fliegner, T. et al.**
Lu, Junwei *see* **Niu, Yugang et al., 2005d:93078**
Luo, Bo *see* **Li, Hong[6] et al.**
Luo, Jun Yong *see* **Liu, Fen Lin et al.**
Marino, Riccardo (*with* Tomei, Patrizio) Adaptive control of linear time-varying systems. (English summary)
— (*with* Tomei, Patrizio) Adaptive tracking and disturbance rejection for uncertain nonlinear systems. (English summary) **2005g:93069**
Matsuno, Fumitoshi *see* **Yang, Kyung-Jinn et al., 2005b:93087**
Medvedev, Aleksandr Vladislavovich *see* **Sokolov, B. M. et al., 2005f:93095**
Miller, Daniel E. A new approach to adaptive control: no nonlinearities. (English summary) **2005f:93093**
Mu, Xiao Wu *see* **Bi, Wei Ping et al., 2005i:93053**
Muramatsu, Eiichi (*with* Watanabe, Keiji) Feedback error learning control without recourse to positive realness. (English summary)
Narendra, Kumpati S. (*with* Driollet, Osvaldo A.; George, Koshy) Adaptive control using multiple models: a methodology. (English summary) (*see* **2005a:00024**)
— *see also* **Chen, Lingji**
Nikiforov, V. O. (*with* Voronov, K. V.) Adaptive backstepping with a high-order tuner. (English summary)
Niu, Yugang (*with* Wang, Xing Yu; Lu, Junwei) Dissipative-based adaptive neural control for nonlinear systems. (English summary) **2005d:93078**
Ögren, Petter (*with* Fiorelli, Edward; Leonard, Naomi Ehrich) Cooperative control of mobile sensor networks: adaptive gradient climbing in a distributed environment. (English summary) **2005b:93086**
Ortega, Romeo *see* **Rodríguez, Hugo et al., (2005b:93007)**
Ovakimyan, N. V. *see* **Calise, Anthony J. et al.**
Parisini, Thomas *see* **Zhang, Xiaodong[3] et al., 2005b:93088**
Polycarpou, Marios M. *see* **Zhang, Xiaodong[3] et al., 2005b:93088**
Poznyak, Alexander S. (*with* Ljung, Lennart) On-line identification and adaptive trajectory tracking for nonlinear stochastic continuous time systems using differential neural networks. (English summary)
Rodríguez, Hugo (*with* Ortega, Romeo; Astolfi, Alessandro) On the control of a class of electromechanical systems. (English summary) (*see* **2005b:93007**)
Rogers, Eric *see* **French, M. et al., 2005k:93118**
Roup, Alexander V. (*with* Bernstein, Dennis S.) Adaptive stabilization of linear second-order systems with bounded time-varying coefficients. (English summary) **2005d:93079**
Ruan, Rong Yao *see* **Yang, Chang Li et al.**
Rudenko, O. G. (*with* Bessonov, A. A.) Adaptive control of nonlinear systems using the CMAC neural network. (Russian. English, Russian and Ukrainian summaries)
Rutkovskiĭ, V. Yu. *see* **Glumov, V. M. et al., 2005f:93091**
Ryan, Eugene P. *see* **Ilchmann, Achim, 2005a:93088** *and* **Fliegner, T. et al.**
de la Sen, Manuel On the adaptive control of a class of SISO dynamic hybrid systems. (English summary)
— Adaptive control of time-varying systems with time-varying delays. (English summary) **2005f:93094**
— *see also* **Ibeas, Asier** *and* **Alonso-Quesada, S. et al.**
Shepelyavyĭ, A. I. *see* **Sokolov, B. M. et al., 2005f:93095**
Shi, Peng *see* **Hua, Changchun et al.**
Singh, Sahjendra N. *see* **Bhoir, Nilesh, 2005f:93089**
Sokolov, B. M. (*with* Shepelyavyĭ, A. I.; Medvedev, Aleksandr Vladislavovich) Adaptive control of convertor fusible steel. (English summary) **2005f:93095**
Stoev, Julian (*with* Choi, Jin Young[1]; Farrell, Jay) Adaptive control for output feedback nonlinear systems in the presence of modeling errors. (English summary)
Subbarao, Kamesh *see* **Akella, Maruthi R., 2005f:93088**
Sukhanov, V. M. *see* **Glumov, V. M. et al., 2005f:93091**
Świerniak, Andrzej *see* **Czornik, Adam, 2005k:93117**
Szepesvári, Cs. *see* **French, M. et al., 2005k:93118**
Tan, Kok Kiong (*with* Huang, S. N.; Lee, Tong Heng) Adaptive backstepping control for a class of nonlinear systems using neural network approximations. (English summary) **2005e:93085**
— *see also* **Huang, S. N. et al., 2005d:93077**
Tan, Yong Hong *see* **Li, Chun Tao, 2005f:93092**
Tao, Gang *see* **Chen, Shuhao et al., 2005f:93090** *and* **Imai, Alvaro K. et al., 2005j:93044**
Tomei, Patrizio *see* **Marino, Riccardo, 2005g:93069**
Tomizuka, Masayoshi *see* **Yao, Bin**
Treesatayapun, C. (*with* Uatrongjit, S.) Controlling and synchronization of chaotic system using FREN with sliding bounds. (English summary)
Trenn, Stephan *see* **Ilchmann, Achim, 2005e:93084**
Tu, C.-Y. *see* **Wai, R.-J. et al.**
Tyukin, I. Yu. Adaptation algorithms in finite form for a class of nonlinear dynamic plants. (Russian. Russian summary) **2005e:93086**
Uatrongjit, S. *see* **Treesatayapun, C.**
Voronov, K. V. *see* **Nikiforov, V. O.**
Wai, R.-J. (*with* Tu, C.-Y.; Hsieh, K.-Y.) Adaptive tracking control for robot manipulator. (English summary)
Wang, Qiang De (*with* Jing, Yuan Wei; Zhang, Si Ying) Adaptive and practical output tracking control of nonlinear systems. (English and Chinese summaries)
— (*with* Jing, Yuan Wei; Zhang, Si Ying) Adaptive practical output tracking of a class of nonlinear systems. (English summary) **2005e:93087**
Wang, Xin[7] (*with* Li, Shao Yuan[2]) Multiple-model adaptive feedforward decoupling controller. (Chinese. English and Chinese summaries)
Wang, Xing Yu *see* **Niu, Yugang et al., 2005d:93078**
Wang, Zhong Sheng (*with* Li, Wei Feng; Liao, Xiao Xin) Adaptive tracking control for a Duffing chaotic system with uncertainty. (Chinese. English and Chinese summaries)
Watanabe, Keiji *see* **Muramatsu, Eiichi**
Wei, Xin Jiang (*with* Yang, Wei Guo[3]; Jing, Yuan Wei) Robust adaptive control for nonlinear fuzzy time-delay systems. (Chinese. English and Chinese summaries)
Wen, Changyun *see* **Zhou, Jing et al., 2005d:93080**
Wu, Minglu *see* **Li, Hong[6] et al.**
Xu, Fei[1] (*with* Guo, Lei[1]; Huang, Minyi) Towards understanding the capability of adaptation for time-varying systems. (English summary)
Xu, Jian-Xin A new periodic adaptive control approach for time-varying parameters with known periodicity. (English summary) **2005c:93050**
Yang, Chang Li (*with* Ruan, Rong Yao; Gong, Miao Kun) Design and analysis of robust adaptive state-feedback controller for a class of uncertain nonlinear systems. (Chinese. English and Chinese summaries)
Yang, Kyung-Jinn (*with* Hong, Keum-Shik; Matsuno, Fumitoshi) Robust adaptive boundary control of an axially moving string under a spatiotemporally varying tension. (English summary) **2005b:93087**
Yang, Wei Guo[3] *see* **Wei, Xin Jiang et al.**
Yang, Wenli *see* **Li, Hong[6] et al.**
Yao, Bin (*with* Tomizuka, Masayoshi) Adaptive robust control of MIMO nonlinear systems in semi-strict feedback forms. (English summary)
Yu, Ji Min *see* **Bi, Wei Ping et al., 2005i:93053**
Yuan, Jing[1] Improving an adaptive controller for non-minimum phase plants. (English summary)
Zemlyakov, S. D. *see* **Glumov, V. M. et al., 2005f:93091**
Zhang, Si Ying *see* **Wang, Qiang De et al., 2005e:93087**
Zhang, Xiaodong[3] (*with* Parisini, Thomas; Polycarpou, Marios M.) Adaptive fault-tolerant control of nonlinear uncertain systems: an information-based diagnostic approach. (English summary) **2005b:93088**
Zhang, Ying[4] *see* **Zhou, Jing et al., 2005d:93080**
Zhang, Youping *see* **Fidan, Barış et al., 2005m:93084**
Zheng, Xiaoli *see* **Li, Hong[6] et al.**
Zhou, Jing (*with* Wen, Changyun; Zhang, Ying[4]) Adaptive backstepping control of a class of uncertain nonlinear systems with unknown backlash-like hysteresis. (English summary) **2005d:93080**
Zhou, Zhiyuan *see* **Li, Hong[6] et al.**
Zhu, Xin Jian *see* **Dong, Wei[3] et al.**

Items with secondary classifications in 93C40

Agiza, Hamdy N. Chaos synchronization of Lü dynamical system. (English summary) **2005a:37050**
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Altunel, Haluk *see* **Sezer, M. Erol, 2005a:93006**

Angelov, Plamen A fuzzy controller with evolving structure. (English summary) **2005a:93089**
(Arkun, Yaman) *see* **Cao, Yong-Yan**
Arslan, Gürdal (*with* Başar, Tamer) Disturbance attenuating controller design for strict-feedback systems with structurally unknown dynamics. (English summary)
Ataei, M. *see* **Khaki-Sedigh, A. et al., 2005b:37198**
Atencia, Miguel (*with* Joya, Gonzalo; Sandoval, Francisco) Gray box identification with Hopfield neural networks. (English and Spanish summaries)
Bacic, M. (*with* Cannon, Mark; Kouvaritakis, Basil) Extension of efficient predictive control to the nonlinear case. (English summary) **2005i:93047**
Bakan, G. M. Analytic synthesis of algorithms for the guaranteed estimation of the states of dynamic processes. (Russian. English, Russian and Ukrainian summaries) **2005g:93033**
Başar, Tamer *see* **Arslan, Gürdal**
Baumann, William T. *see* **Vaudrey, Michael A. et al., 2005m:93108**
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Bernard, Olivier *see* **Mailleret, Ludovic et al.**
Bien, Zeungnam *see* **Kim, Yong-Tae[1], 2005f:93100**
Bolkvadze, G. R. The Hammerstein-Wiener model in problems of the identification of stochastic systems. (Russian. Russian summary) **2005f:93170**
Boucherit, Mohamed Seghir *see* **Labiod, Salim et al.**
Bourray, H. *see* **Zerrik, E. et al., 2005a:65095**
Brugarolas, Paul B. (*with* Safonov, Michael G.) Learning about dynamical systems via unfalsification of hypotheses. (English summary) **2005a:93042**
Burnham, Keith J. *see* **Koshkouei, Ali J.**
Burrage, Kevin *see* **Burrage, P. M. et al., 2005f:65011**
Burrage, P. M. (*with* Herdiana, R.; Burrage, Kevin) Adaptive stepsize based on control theory for stochastic differential equations. (English summary) **2005f:65011**
Cannon, Mark *see* **Bacic, M. et al., 2005i:93047**
Cao, Guang Yi *see* **Wang, Zhen Lei et al.**
Cao, Yong-Yan (*with* Xue, Anke) Comments on: "Quasi-min-max MPC algorithms for LPV systems" [Automatica J. IFAC **36** (2000), no. 4, 527–540; MR1828899 (2002a:93052)] by Y. Lu and Y. Arkun. (English summary)
Chang, Wei-Der Robust adaptive single neural control for a class of uncertain nonlinear systems with input nonlinearity. (English summary) **2005i:93049**
Chen, Bor-Sen *see* **Tseng, Chung-Shi**
Chen, Shuhao *see* **Tao, Gang et al.**
Chien, Chiang-Ju (*with* Yao, Chia-Yu) An output-based adaptive iterative learning controller for high relative degree uncertain linear systems. (English summary)
Chisci, L. (*with* Rossiter, J. A.; Zappa, Giovanni) Systems with persistent disturbances: predictive control with restricted constraints. (English summary)
Correia, Isidoro F. P. *see* **Simões Moita, José M. et al.**
Costa, Márcio H. (*with* Bermudez, José Carlos M.) A new adaptive algorithm for reducing non-linear effects from saturation in active noise control systems. (English summary)
Cutforth, Craig F. (*with* Pao, Lucy Y.) Adaptive input shaping for maneuvering flexible structures. (English summary)
Damm, Gilney (*with* Marino, Riccardo; Lamnabhi-Lagarrigue, Françoise) Adaptive nonlinear output feedback for transient stabilization and voltage regulation of power generators with unknown parameters. (English summary) **2005e:93141**
Djouadi, Seddik M. MIMO disturbance and plant uncertainty attenuation by feedback. (English summary) **2005g:93054**
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Doelman, Niek J. *see* **Fraanje, Rufus et al.**
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El Jaï, Abdelhak *see* **Zerrik, E. et al., 2005a:65095**
Filatov, N. M. (*with* Unbehauen, H.) ★Adaptive dual control. **2005a:93004**
Fraanje, Rufus (*with* Sayed, Ali H.; Verhaegen, Michel; Doelman, Niek J.) A fast-array Kalman filter solution to active noise control. (English summary)
Gabriel, S. B. *see* **Pongvthithum, R. et al.**
Gavel, Donald T. *see* **Wiberg, Donald M. et al.**
Ge, Shuzhi Sam (*with* Li, Guangyong; Zhang, Jin[5]; Lee, Tong Heng) Direct adaptive control for a class of MIMO nonlinear systems using neural networks. (English summary) **2005f:93105**
Gu, Hai Jun *see* **Zhang, Tian Ping[1] et al.**
Guan, Xin Ping (*with* Wu, Jing[3]; Long, Cheng Nian) Resilient controller design for a class of large-scale delay systems: adaptive approach. (Chinese. English and Chinese summaries)
— *see also* **Hua, Changchun et al., 2005b:93147; 2005f:93098** *and* **2005m:93086**
Guay, Martin (*with* Dochain, Denis; Perrier, M.) Adaptive extremum seeking control of continuous stirred tank bioreactors with unknown growth kinetics. (English summary)
Guerra, Thierry Marie *see* **Labiod, Salim et al.**
Herdiana, R. *see* **Burrage, P. M. et al., 2005f:65011**
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Hong, Henry *see* **Wang, Xing-Song et al., 2005m:93141**
Hua, Changchun (*with* Guan, Xin Ping; Shi, Peng) Robust stabilization of a class of nonlinear time-delay systems. (English summary) **2005b:93147**
— (*with* Guan, Xin Ping; Duan, Guang Ren) Variable structure adaptive fuzzy control for a class of nonlinear time-delay systems. (English summary) **2005f:93098**
— (*with* Guan, Xin Ping; Shi, Peng) Adaptive fuzzy control for uncertain interconnected time-delay systems. (English summary) **2005m:93086**
Ibeas, Asier (*with* de la Sen, Manuel; Alonso-Quesada, S.) Stable multi-estimation model for single-input single-output discrete adaptive control systems. (English summary)
Ikhouane, F. *see* **Mañosa, V. et al.**
Ilchmann, Achim (*with* Thuto, Mosalagae; Townley, Stuart) Input constrained adaptive tracking with applications to exothermic chemical reaction models. (English summary) **2005d:93072**
Il'ichev, V. G. Parameter adaptation methods in ecological models. (Russian. English and Russian summaries) **2005a:92063**
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Joshi, Suresh Meghashyam *see* **Tao, Gang et al.**
Joya, Gonzalo *see* **Atencia, Miguel et al.**
Justh, E. W. (*with* Krishnaprasad, P. S.; Vorontsov, M. A.) Analysis of a high-resolution optical wave-front control system. (English summary)
Kang, Yu (*with* Xi, Hong Sheng; Ji, Hai Bo; Wang, Jun[8]) Robust adaptive control for a class of uncertain hybrid linear systems. (Chinese. English and Chinese summaries)
Kapila, Vikram *see* **Wong, Hong et al., (2005c:93005)**
Khaki-Sedigh, A. (*with* Ataei, M.; Lohmann, B.; Lucas, Caro) Adaptive calculation of Lyapunov exponents from time series observations of chaotic time varying dynamical systems. (English summary) **2005b:37198**
Kim, Seong-Hwan *see* **Park, Jang-Hyun et al., 2005m:93087**
Kim, Yong-Tae[1] (*with* Bien, Zeungnam) Robust adaptive fuzzy control in the presence of external disturbance and approximation error. (English summary) **2005f:93100**
Kobayashi, Hiroaki (*with* Ozawa, Ryuta) Adaptive neural network control of tendon-driven mechanisms with elastic tendons. (English summary) **2005m:93102**
Koshkouei, Ali J. (*with* Burnham, Keith J.) Adaptive sliding mode backstepping output tracking controllers for feedforward uncertain systems. (English summary)
Kosut, Robert L. (*with* Rabitz, Herschel; Walmsley, Ian A.) Indirect adaptive control of quantum systems. (English summary) (*see* **2005b:93007**)
Kouvaritakis, Basil *see* **Bacic, M. et al., 2005i:93047**
Krishnaprasad, P. S. *see* **Justh, E. W. et al.**
Labiod, Salim (*with* Boucherit, Mohamed Seghir; Guerra, Thierry Marie) Adaptive fuzzy control of a class of MIMO nonlinear systems. (English summary)
Lamberton, Damien (*with* Pagès, Gilles; Tarrès, Pierre) When can the two-armed bandit algorithm be trusted? (English summary) **2005k:62183**
Lamnabhi-Lagarrigue, Françoise *see* **Damm, Gilney et al., 2005e:93141**
Lee, Gean-Pao *see* **Liu, Van-Tsai et al., 2005c:93081**
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Li, Han-Xiong *see* **Tong, Shao Cheng et al., 2005h:93097**
Li, Jun Min (*with* Ho, Daniel W. C.) Efficient recursive adaptive pole placement algorithm. (English summary) **2005e:93065**
Li, Wen Lin (*with* Quan, Sheng Hui; Liu, Guo Hua) Adaptive neural network control based on observer for a class of nonlinear systems. (Chinese. English and Chinese summaries)
Li, Zheng[1] (*with* Schmid, Christian) A time-varying generalised minimum variance controller. (English summary)
Lin, Chun-Liang *see* **Liu, Van-Tsai et al., 2005c:93081**
Liu, Fei[2] *see* **Wu, Jun Liang**
Liu, Guo Hua *see* **Li, Wen Lin et al.**
Liu, Van-Tsai (*with* Lin, Chun-Liang; Lee, Gean-Pao) Neural-network-based identification and control of a thin plate using piezoelectric actuators and sensors. (English summary) **2005c:93081**
Lohmann, B. *see* **Khaki-Sedigh, A. et al., 2005b:37198**
Long, Cheng Nian *see* **Guan, Xin Ping et al.**
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Lucas, Caro *see* **Khaki-Sedigh, A. et al., 2005b:37198**
Mailleret, Ludovic (*with* Bernard, Olivier; Steyer, Jean-Philippe) Nonlinear adaptive control for bioreactors with unknown kinetics. (English summary)
Mañosa, V. (*with* Ikhouane, F.; Rodellar, J.) Control of uncertain non-linear systems via adaptive backstepping. (English summary)
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Mota Soares, Carlos A. *see* **Simões Moita, José M. et al.**
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Park, Jang-Hyun (*with* Park, Gwi-Tae; Kim, Seong-Hwan; Moon, Chae-Joo) Direct adaptive self-structuring fuzzy controller for nonaffine nonlinear system. (English summary) **2005m:93087**
Perrier, M. *see* **Guay, Martin et al.**
Pongvthithum, R. (*with* Veres, S. M.; Gabriel, S. B.; Rogers, Eric) Universal adaptive control of satellite formation flying. (English summary)
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Quan, Sheng Hui *see* **Li, Wen Lin et al.**
de Queiroz, Marcio Santos *see* **Wong, Hong et al., (2005c:93005)**
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Rogers, Eric *see* **Pongvthithum, R. et al.**
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Rovithakis, George A. Stable adaptive neuro-control design via Lyapunov function derivative estimation. (English summary)
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Sandoval, Francisco *see* **Atencia, Miguel et al.**
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de la Sen, Manuel Robust stable pole-placement-based adaptive control of continuous linear systems with two parametrical estimation schemes. (English summary) **2005d:93064**
— *see also* **Ibeas, Asier et al.**

Sezer, M. Erol (*with* Altunel, Haluk) Adaptive decentralized control of interconnected systems. (English summary) **2005a:93006**
Shen, Yan Jun (*with* Wang, Bing Wen; Zhang, Lin Guo) Adaptive control of a singularly perturbed system based on TAF-MFNN. (Chinese. English and Chinese summaries)
Shi, Peng *see* **Hua, Changchun et al., 2005b:93147** *and* **2005m:93086**
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Simões Moita, José M. (*with* Correia, Isidoro F. P.; Mota Soares, Cristóvão M.; Mota Soares, Carlos A.) Active control of adaptive laminated structures with bonded piezoelectric sensors and actuators. (English summary)
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Tao, Gang (*with* Chen, Shuhao; Joshi, Suresh Meghashyam) An adaptive control scheme for systems with unknown actuator failures. (English summary)
— *see also* **Taware, Avinash et al.**
Tarrès, Pierre *see* **Lamberton, Damien et al., 2005k:62183**
Taware, Avinash (*with* Tao, Gang; Pradhan, Nilesh; Teolis, Carole) Friction compensation for a sandwich dynamic system. (English summary)
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Tertychnyĭ-Dauri, V. Yu. Solution of variational dynamic problems under conditions of parametric uncertainty. (Russian. Russian summary) **2005m:49046**
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— (*with* Li, Han-Xiong; Wang, Wei[5]) Observer-based adaptive fuzzy control for SISO nonlinear systems. (English summary) **2005h:93097**
Torres-Muñoz, Jorge Antonio (*with* Zagalak, Petr; Duarte-Mermoud, Manuel A.) Some remarks on the problem of model matching by state feedback. (English summary) **2005k:93045**
Townley, Stuart *see* **Ilchmann, Achim et al., 2005d:93072**
Tseng, Chung-Shi (*with* Chen, Bor-Sen) A mixed H_2/H_∞ adaptive tracking control for constrained non-holonomic systems. (English summary)
Unbehauen, H. *see* **Filatov, N. M., 2005a:93004**
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Wang, Bing Wen *see* **Shen, Yan Jun et al.**
Wang, Jun[8] *see* **Kang, Yu et al.**
Wang, Li Xin[1] (*with* Wan, Feng) Structured neural networks for constrained model predictive control. (English summary)
Wang, Wei[5] *see* **Tong, Shao Cheng et al., 2005h:93097**
Wang, Xing-Song (*with* Su, Chun-Yi; Hong, Henry) Robust adaptive control of a class of nonlinear systems with unknown dead-zone. (English summary) **2005m:93141**
Wang, Zhen Lei (*with* Cao, Guang Yi; Zhu, Xin Jian) Fuzzy-neural network adaptive controller for a nonlinear multivariable system. (Chinese. English and Chinese summaries)
Wei, Xin Jiang (*with* Jing, Yuan Wei) Adaptive fuzzy control based on approximation errors for nonlinear systems. (Chinese. English and Chinese summaries)
Wen, J. Y. *see* **Wu, Qing-Hua et al., 2005e:93145**
Wiberg, Donald M. (*with* Max, Claire E.; Gavel, Donald T.) Geometric view of adaptive optics control. (English summary)
Wong, Hong (*with* Pan, Haizhou; de Queiroz, Marcio Santos; Kapila, Vikram) Adaptive learning control for spacecraft formation flying. (English summary) (*see* **2005c:93005**)
Wu, Jing[3] *see* **Guan, Xin Ping et al.**
Wu, Jun Liang (*with* Liu, Fei[2]) Control model of ill-posed linear system and its iterative solution method. (Chinese. English and Chinese summaries)
Wu, Qing-Hua (*with* Jiang, Lin; Wen, J. Y.) Decentralized adaptive control of interconnected non-linear systems using high gain observer. (English summary) **2005e:93145**
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Zagalak, Petr *see* **Torres-Muñoz, Jorge Antonio et al., 2005k:93045**
Zappa, Giovanni *see* **Chisci, L. et al.**
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Zhang, Jin[5] *see* **Ge, Shuzhi Sam et al., 2005f:93105**
Zhang, Lin Guo *see* **Shen, Yan Jun et al.**
Zhang, Tian Ping[1] (*with* Gu, Hai Jun; Yi, Yang) Decentralized hybrid adaptive intelligent control of nonlinear interconnected systems. (Chinese. English and Chinese summaries)
Zhao, Dianpin *see* **Tong, Shao Cheng, 2005d:93031**
Zhu, Xin Jian *see* **Wang, Zhen Lei et al.**

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Qu, Zhihua (*with* Ihlefeld, Curtis M.; Jin, Yufang; Saengdeejing, Apiwat) Robust fault-tolerant self-recovering control of nonlinear uncertain systems. (English summary)
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Sun, Xi Ming (*with* Qi, Li; Zhao, Jun[2]) Hybrid state-feedback guaranteed cost control for a class of uncertain linear systems. (Chinese. English and Chinese summaries)
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Wang, Dan[1] (*with* Huang, Jie[1]) Adaptive neural network control for a class of uncertain nonlinear systems in pure-feedback form. (English summary)
Zhang, Bao Lin *see* **Tang, Gong You et al.**
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Items with secondary classifications in 93C41

Angeli, David *see* **Casavola, Alessandro et al., 2005h:93071**
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(De Santis, Elena) *see* **Casavola, Alessandro et al., 2005h:93071**
Ding, Zhengtao Global stabilization and disturbance suppression of a class of nonlinear systems with uncertain internal model. (English summary)
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Filatov, N. M. (*with* Unbehauen, H.) ★ Adaptive dual control. **2005a:93004**
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Liu, Hui Ming (*with* Jing, Yuan Wei; Zhang, Si Ying) Variable structure model-following control for a class of uncertain linear composite systems. (Chinese. English and Chinese summaries)
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— *see also* **Fagnani, Fabio et al., 2005b:93044**
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Pintelon, Rik (*with* Schoukens, Johan) Some peculiarities of identification in the presence of model errors. (English summary)
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Wang, Zhong Sheng (*with* Li, Wei Feng; Liao, Xiao Xin) Adaptive tracking control for a Duffing chaotic system with uncertainty. (Chinese. English and Chinese summaries)
Ward, David G. *see* **Cao, Yong-Yan et al.**
Wu, Huai-Ning (*with* Cai, Kai-Yuan) H_2 guaranteed cost fuzzy control for uncertain nonlinear systems via linear matrix inequalities. (English summary) **2005f:93101**
Zelyk, Ya. I. (*with* Lychak, M. M.) Computer technology of interval-set analysis in MATLAB. (Russian. English and Ukrainian summaries) **2005h:65078**
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Items listed otherwise than by author

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Alique, J. R. *see* **Haber, Rodolfo E. et al., (2005c:00014)**
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Arrifano, Natache S. D. (*with* Oliveira, Vilma A.) Guaranteed cost fuzzy controllers for a class of uncertain nonlinear dynamic systems. (English summary)
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Cai, Yong[2] (*with* Zhang, You Gang; Xiao, Jian[1]) LMI-based decentralized stabilization of fuzzy large-scale systems with time-delay interconnections. (Chinese. English and Chinese summaries)
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Chang, Wen Jer (*with* Sun, Chein-Chung) Authors' reply to: "Comments on: 'Constrained fuzzy controller design of discrete Takagi-Sugeno fuzzy models' " [Fuzzy Sets and Systems **146** (2004), no. 3, 473–476; MR2082238] by F. Sun, H. P. Liu and Z. Sun.
— (*with* Shing, Chong-Cheng) Discrete fuzzy covariance control for specified decay rate. (English summary)
— *see also* **Sun, Fu-Chun et al.**
Chang, Yuan-Chang (*with* Chen, Song-Shyong; Su, Shun-Feng; Lee, Tsu-Tian) Static output feedback stabilization for nonlinear interval time-delay systems via fuzzy control approach. (English summary) **2005f:93097**
Chen, Bing[2] (*with* Zhou, Yu Cheng) Delay-dependent stability analysis and stabilization of T-S fuzzy models with time-delay. (Chinese. English and Chinese summaries)
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— (*with* Liu, Xiao Ping[2]) Reliable control design of fuzzy dynamic systems with time-varying delay. (English summary) **2005b:93090**
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Haber, R. H. *see* **Haber, Rodolfo E. et al., (2005c:00014)**
Haber, Rodolfo E. (*with* Alique, J. R.; Alique, A.; Haber, R. H.) Nonlinear internal model control using neural networks and fuzzy logic: application to an electromechanical process. (English summary) (*see* **2005c:00014**)
Haj-Ali, Amin (*with* Ying, Hao) Structural analysis of fuzzy controllers with nonlinear input fuzzy sets in relation to nonlinear PID control with variable gains. (English summary)
Han, Hugang Analysis and design of adaptive fuzzy control for a class of discrete-time nonlinear systems. (English summary) **2005h:93096**
Han, Qing-Long *see* **Jiang, Xie Fu et al.**
Herrera, L. J. (*with* Pomares, H.; Rojas, I.; Valenzuela, O.; Prieto Espinosa, Alberto) TaSe, a Taylor series-based fuzzy system model that combines interpretability and accuracy. (English summary)
Hesketh, T. *see* **Zhang, Ying Wei et al.**
Ho, Wen-Hao *see* **Lin, Cheng-Jian**
Hong, Lin *see* **Kau, Shih-Wei et al.**
Horiuchi, Kazuo *see* **Endo, Yasunori, 2005g:93071**
Hsiao, F. H. *see* **Chen, Cheng-Wu et al., 2005b:93091**
Hsu, Chun-Fei (*with* Lin, Chih-Min) Fuzzy-identification-based adaptive controller design via backstepping approach. (English summary)
Hu, Shou Song *see* **Liu, Ya**
Hu, Wei Li *see* **Xing, Zong Yi et al.**
Hua, Changchun (*with* Guan, Xin Ping; Duan, Guang Ren) Variable structure adaptive fuzzy control for a class of nonlinear time-delay systems. (English summary) **2005f:93098**
— (*with* Guan, Xin Ping; Shi, Peng) Adaptive fuzzy control for uncertain interconnected time-delay systems. (English summary) **2005m:93086**
Huang, Chih-Peng Stability analysis of discrete singular fuzzy systems. (English summary)
Huang, Sen-Wei *see* **Lin, Chun-Liang et al., 2005d:93081**
Huang, Zhen Yu[2] *see* **Sun, Tao et al.**
Huo, Wei *see* **Shi, Wu Xi et al.**
Ichikawa, Akira *see* **Katayama, Hitoshi, 2005f:93099**
Jha, A. N. *see* **Purwar, S. et al.**
Jia, Li Min *see* **Xing, Zong Yi et al.**
Jia, Xinchun (*with* Zheng, Nanning) Reliable fuzzy control with domain guaranteed cost for fuzzy systems with actuator failures. (English summary)
Jiang, Xie Fu (*with* Xu, Wen Li[1]; Han, Qing-Long) Observer-based fuzzy control design with adaptation to delay parameter for time-delay systems. (English summary)
Jing, Yuan Wei *see* **Wei, Xin Jiang** *and* **Mi, Yang**
Juang, Jih-Gau (*with* Chio, Jern-Zuin) Fuzzy modelling control for aircraft automatic landing system. (English summary)

Kadmiry, B. (*with* Driankov, D.) A fuzzy flight controller combining linguistic and model-based fuzzy control. (English summary) **2005b:93092**
Kar, I. N. *see* **Purwar, S. et al.**
Karimi, H. R. (*with* Moshiri, B.; Lucas, Caro) Robust fuzzy linear control of a class of stochastic nonlinear time-delay systems. (English summary) **2005g:93072**
Katayama, Hitoshi (*with* Ichikawa, Akira) H_∞ control for sampled-data nonlinear systems described by Takagi-Sugeno fuzzy systems. (English summary) **2005f:93099**
Kau, Shih-Wei (*with* Liu, Yung-Sheng; Lee, Ching-Hsiang; Hong, Lin; Fang, Chun-Hsiung) Static output feedback fuzzy controller design for T-S fuzzy descriptor systems. (English summary)
Kim, Seong-Hwan *see* **Park, Jang-Hyun et al., 2005m:93087**
Kim, Yong-Tae[1] (*with* Bien, Zeungnam) Robust adaptive fuzzy control in the presence of external disturbance and approximation error. (English summary) **2005f:93100**
Labiod, Salim (*with* Boucherit, Mohamed Seghir; Guerra, Thierry Marie) Adaptive fuzzy control of a class of MIMO nonlinear systems. (English summary)
Lai, Rei-Min *see* **Lin, Chun-Liang et al., 2005d:93081**
Lan, Lawrence W. *see* **Chiou, Yu-Chiun**
Lee, Ching-Hsiang *see* **Kau, Shih-Wei et al.**
Lee, Taih-Shyun (*with* Chen, Ye-Hwa; Chuang, Jason C.-H.) Robust control design of fuzzy dynamical systems. (English summary)
Lee, Tsu-Tian *see* **Chang, Yuan-Chang et al., 2005f:93097**
Li, Chun Guang (*with* Liao, Xiaofeng; Wang, Houjun) Stability analysis of fuzzy large-scale systems with time delays in interconnections. (English summary)
Li, Han-Xiong *see* **Tong, Shao Cheng et al., 2005h:93097**
Li, Hong Xing *see* **Liu, Puyin**
Li, Ning[4] (*with* Li, Shao Yuan[2]; Xi, Yu Geng) Multi-model predictive control based on the Takagi-Sugeno fuzzy models: a case study. (English summary)
Li, Shao Yuan[2] (*with* Zou, Tao; Yang, Yi-Peng) Finding the fuzzy satisfying solutions to constrained optimal control systems and application to robot path planning. (English summary)
— *see also* **Li, Ning[4] et al.**
Li, Yong Ming[1] *see* **Wu, Jing Jie**
Li, Zhiyuan[2] *see* **Wang, Yin He[1]**
Liao, Xiaofeng *see* **Li, Chun Guang et al.**
Lin, Cheng-Jian (*with* Ho, Wen-Hao) An asymmetry-similarity-measure-based neural fuzzy inference system. (English summary)
Lin, Chih-Min *see* **Hsu, Chun-Fei**
Lin, Chun-Liang (*with* Lai, Rei-Min; Huang, Sen-Wei) Missile autopilot design using dynamic fuzzy gain-scheduling technique. (English summary) **2005d:93081**
Lin, Min-Long *see* **Lo, Ji-Chang, 2005a:93090**
Lin, Yu-Ting *see* **Lo, Ji-Chang**
Liu, Derong *see* **Zhang, Hua Guang et al.**
Liu, Guo Yi (*with* Zhang, Qing Ling; Yang, Li[4]; Zhai, Ding) Quadratic stability of a class of T-S fuzzy descriptor systems. (Chinese. English and Chinese summaries)
Liu, Hua Ping[2] *see* **Chang, Wen Jer** *and* **Sun, Fu-Chun et al.**
Liu, Puyin (*with* Li, Hong Xing) Hierarchical TS fuzzy system and its universal approximation. (English summary)
Liu, Xiao Dong[1] (*with* Zhang, Qing Ling) New approaches to H_∞ controller designs based on fuzzy observers for T-S fuzzy systems via LMI. (English summary)
Liu, Xiao Ping[2] *see* **Chen, Bing[2], 2005b:93090**
Liu, Xingwen (*with* Zhang, Hongbin[1]) Stability analysis of uncertain fuzzy large-scale system. (English summary)
— (*with* Zhang, Hongbin[1]; Zhang, Fengli) Delay-dependent stability of uncertain fuzzy large-scale systems with time delays. (English summary)
Liu, Ya (*with* Hu, Shou Song) Fuzzy robust tracking control for uncertain nonlinear systems. (Chinese. English and Chinese summaries)
Liu, Yung-Sheng *see* **Kau, Shih-Wei et al.**
Llanes-Santiago, Orestes *see* **Alvarez-López, Ihosvany et al., 2005h:93095**
Lo, Ji-Chang (*with* Lin, Min-Long) Robust H^∞ nonlinear modeling and control via uncertain fuzzy systems. (English summary) **2005a:93090**
— (*with* Lin, Yu-Ting) Robust control for uncertain fuzzy systems via circle criterion. (English summary)
Lucas, Caro *see* **Karimi, H. R. et al., 2005g:93072**
Man, Zhihong *see* **Yu, Shuanghe et al., 2005f:93103**
Melin, Patricia (*with* Castillo, Oscar) Intelligent control of aircraft dynamic systems with a new hybrid neuro-fuzzy-fractal approach. (English summary) (*see* **2005c:93005**)
Mendonça, L. F. (*with* Sousa, J. M.; Sá da Costa, J. M. G.) Optimization problems in multivariable fuzzy predictive control. (English summary) **2005b:93093**
Mi, Yang (*with* Jing, Yuan Wei) Design of fuzzy sliding mode controller for SISO discrete-time systems. (English summary)
Michels, Kai TS control—the link between fuzzy control and classical control theory. (English summary) (*see* **2005m:41001**)
Mohan, B. M. *see* **Patel, Ambalal V.**
Moon, Chae-Joo *see* **Park, Jang-Hyun et al., 2005m:93087**
Moshiri, B. *see* **Karimi, H. R. et al., 2005g:93072**
Nandi, Arup Kumar (*with* Pratihar, Dilip Kumar) Design of a genetic-fuzzy system to predict surface finish and power requirement in grinding. (English summary)
Nguang, Sing Kiong *see* **Assawinchaichote, Wudhichai, 2005g:93070**
Oliveira, Vilma A. *see* **Arrifano, Natache S. D.**
Park, Gwi-Tae *see* **Park, Jang-Hyun et al., 2005m:93087**
Park, Jang-Hyun (*with* Park, Gwi-Tae; Kim, Seong-Hwan; Moon, Chae-Joo) Output-feedback control of uncertain nonlinear systems using a self-structuring adaptive fuzzy observer. (English summary)
— (*with* Park, Gwi-Tae; Kim, Seong-Hwan; Moon, Chae-Joo) Direct adaptive self-structuring fuzzy controller for nonaffine nonlinear system. (English summary) **2005m:93087**
Patel, Ambalal V. (*with* Mohan, B. M.) Analytical structures and analysis of the simplest fuzzy PI controllers. (English summary)
Picó, Jesús *see* **Bondia, Jorge, 2005c:93051**
Pomares, H. *see* **Herrera, L. J. et al.**
Pratihar, Dilip Kumar *see* **Nandi, Arup Kumar**
Prieto Espinosa, Alberto *see* **Herrera, L. J. et al.**
Purwar, S. (*with* Kar, I. N.; Jha, A. N.) Adaptive control of robot manipulators using fuzzy logic systems under actuator constraints. (English summary)
Ren, Guang *see* **Xiu, Zhi Hong et al.**
Rojas, I. *see* **Herrera, L. J. et al.**
Sá da Costa, J. M. G. *see* **Mendonça, L. F. et al., 2005b:93093**
Salarieh, Hassan *see* **Alasty, Aria**
Shi, Peng *see* **Hua, Changchun et al., 2005m:93086**
Shi, Wu Xi (*with* Huo, Wei; Wu, Hong Xin) Direct adaptive fuzzy predictive control for a class of unknown nonlinear discrete systems. (Chinese. English and Chinese summaries)
Shi, Xiao Yan (*with* Gao, Zhi Wei) Stability analysis and controller design of fuzzy descriptor systems. (Chinese. English and Chinese summaries)
Shieh, Leang-San *see* **Barajas-Ramírez, Juan Gonzalo et al., 2005f:93096**
Shing, Chong-Cheng *see* **Chang, Wen Jer**
Song, Chong Hui (*with* Wang, Yong Fu; Chai, Tian You) Dual-mode predictive control scheme for nonlinear discrete systems by using fuzzy system. (Chinese. English and Chinese summaries)
Sousa, J. M. *see* **Mendonça, L. F. et al., 2005b:93093**
Su, Shun-Feng *see* **Chang, Yuan-Chang et al., 2005f:93097**
Sun, Chein-Chung *see* **Chang, Wen Jer** *and* **Sun, Fu-Chun et al.**
Sun, Fu-Chun (*with* Liu, Hua Ping[2]; Sun, Zeng Qi) Comments on: "Constrained fuzzy controller design of discrete Takagi-Sugeno fuzzy models" [Fuzzy Sets and Systems **133** (2003), no. 1, 37–55; MR1952637] by W.-J. Chang and C.-C. Sun. (English summary)
— *see also* **Chang, Wen Jer**
Sun, Tao (*with* Huang, Zhen Yu[2]; Chen, Dayue) Signal frequency-based semi-active fuzzy control for two-stage vibration isolation system. (English summary)
Sun, Zeng Qi *see* **Chang, Wen Jer** *and* **Sun, Fu-Chun et al.**
Szala, Marek *see* **Bubnicki, Zdzisław**
Tan, Wen[2] (*with* Wang, Yao Nan) Direct adaptive fuzzy-neural control of unknown chaotic systems. (Chinese. English and Chinese summaries)
Tong, Shao Cheng (*with* Li, Han-Xiong; Wang, Wei[5]) Observer-based adaptive fuzzy control for SISO nonlinear systems. (English summary) **2005h:93097**
— *see also* **Wang, Yong Fu et al.**
Uang, Huey-Jian A robust fuzzy model following control design for nonlinear systems based on LMI approach. (English summary)
Valenzuela, O. *see* **Herrera, L. J. et al.**
Verdegay, José Luis *see* **Alvarez-López, Ihosvany et al., 2005h:93095**
Wang, Fu Li *see* **Zhang, Ying Wei et al.**
Wang, Houjun *see* **Li, Chun Guang et al.**
Wang, Jiang (*with* Guo-Dong, Qiao; Bin, Deng) Observer-based robust adaptive variable universe fuzzy control for chaotic system. (English summary) **2005d:93082**
Wang, Rong-Jyue Observer-based fuzzy control of fuzzy time-delay systems with parametric uncertainties. (English summary)
— Nonlinear decentralized state feedback controller for uncertain fuzzy time-delay interconnected systems. (English summary)
Wang, Wei[5] *see* **Tong, Shao Cheng et al., 2005h:93097**
Wang, Yao Nan *see* **Tan, Wen[2]** *and* **Yuan, Xiao Fang**
Wang, Yin He[1] (*with* Li, Zhiyuan[2]) Adaptive tracking control for a class of nonlinear systems based on fuzzy logic systems. (Chinese. English and Chinese summaries)
Wang, Yong Fu (*with* Chai, Tian You; Tong, Shao Cheng) Robust adaptive fuzzy tracking control of uncertain nonlinear systems. (Chinese. English and Chinese summaries)
— *see also* **Song, Chong Hui et al.**
Wang, Zhen Lei (*with* Cao, Guang Yi; Zhu, Xin Jian) Fuzzy-neural network adaptive controller for a nonlinear multivariable system. (Chinese. English and Chinese summaries)
Wang, Zhi Liang *see* **Zhang, Hua Guang et al.**
Wei, Xin Jiang (*with* Jing, Yuan Wei) Adaptive fuzzy control based on approximation errors for nonlinear systems. (Chinese. English and Chinese summaries)
— (*with* Jing, Yuan Wei) Fuzzy robust control of a class of uncertain time-delay systems and its stability analysis. (Chinese. English and Chinese summaries)
Wong, A. S. M. An improved multivariate grey model with radial basis functions. (*see* **2005m:00008**)
Wu, Hong Xin *see* **Shi, Wu Xi et al.**
Wu, Huai-Ning (*with* Cai, Kai-Yuan) H_2 guaranteed cost fuzzy control for uncertain nonlinear systems via linear matrix inequalities. (English summary) **2005f:93101**
Wu, Jing Jie (*with* Li, Yong Ming[1]) Stabilization of fuzzy control systems. (Chinese. English and Chinese summaries)
Wu, Zhong Qiang The stable control of an uncertain T-S fuzzy system with input and state time delay. (Chinese. English and Chinese summaries)
Xi, Yu Geng *see* **Li, Ning[4] et al.**
Xia, Yang[1] *see* **Gu, Zhou Cong et al.**
Xiao, Jian[1] *see* **Cai, Yong[2] et al.**
Xing, Zong Yi (*with* Hu, Wei Li; Jia, Li Min) Fuzzy predictive control based on T-S model. (Chinese. English and Chinese summaries)
Xiu, Zhi Hong (*with* Ren, Guang) Stability analysis and systematic design of T-S fuzzy control systems. (Chinese. English and Chinese summaries)
— (*with* Zhang, Yun Jie; Ren, Guang) Properties and stability analysis of fuzzy control systems employing standard fuzzy partition inputs. (Chinese. English and Chinese summaries)
Xu, Wen Li[1] *see* **Jiang, Xie Fu et al.**
Yang, Li[4] *see* **Liu, Guo Yi et al.**
Yang, Yansheng Direct robust adaptive fuzzy control (DRAFC) for uncertain nonlinear systems using small gain theorem. (English summary)
— (*with* Zhou, Changjiu) Robust adaptive fuzzy tracking control for a class of perturbed strict-feedback nonlinear systems via small-gain approach. (English summary) **2005k:93122**
Yang, Yi-Peng *see* **Li, Shao Yuan[2] et al.**
Yang, Zhi Ping[1] (*with* Cao, Chang Xiu) Fuzzy control of nonlinear systems based on synthesis of a fuzzy sub-model. (Chinese. English and Chinese summaries)

Yi, Yang (*with* Zhang, Tian Ping[1]; Chen, Jing) Robust adaptive fuzzy control for a class of certain nonlinear systems. (Chinese. English and Chinese summaries)
Ying, Hao A general technique for deriving analytical structure of fuzzy controllers using arbitrary trapezoidal input fuzzy sets and Zadeh AND operator. (English summary)
— *see also* **Haj-Ali, Amin**
Yu, Jianjiang (*with* Zhang, Tian Ping[1]; Gu, Hai Jun) Robust adaptive fuzzy control for a class of perturbed pure-feedback nonlinear systems. (English summary) **2005f:93102**
Yu, Qi Hong *see* **Gu, Zhou Cong et al.**
Yu, Shuanghe (*with* Yu, Xinghuo; Man, Zhihong) A fuzzy neural network approximator with fast terminal sliding mode and its applications. (English summary) **2005f:93103**
Yu, Wen-Shyong H_∞ tracking-based adaptive fuzzy-neural control for MIMO uncertain robotic systems with time delays. (English summary) **2005b:93094**
Yu, Xinghuo *see* **Yu, Shuanghe et al., 2005f:93103**
Yuan, Xiao Fang (*with* Wang, Yao Nan) On fuzzy support vector machine controller. (Chinese. English and Chinese summaries)
Zhai, Ding *see* **Liu, Guo Yi et al.**
Zhang, Fengli *see* **Liu, Xingwen et al.**
Zhang, Hongbin[1] *see* **Liu, Xingwen et al.**
Zhang, Hua Guang (*with* Wang, Zhi Liang; Liu, Derong) Chaotifying fuzzy hyperbolic model using adaptive inverse optimal control approach. (English summary)
Zhang, Nai Yao *see* **Du, Xin Yu**
Zhang, Qing Ling *see* **Zhu, Bao Yan et al.**; **Liu, Guo Yi et al.** *and* **Liu, Xiao Dong[1]**
Zhang, Tian Ping[1] *see* **Yu, Jianjiang et al., 2005f:93102** *and* **Yi, Yang et al.**
Zhang, Xin-chang Grey dispelling superfluous control for information transmission process with applications to classroom teaching. (English summary)
Zhang, Xuefeng *see* **Zhu, Bao Yan et al.**
Zhang, Ying Wei (*with* Wang, Fu Li; Hesketh, T.; Clements, D. J.; Eaton, R.) Fault accommodation for nonlinear systems using fuzzy adaptive sliding control. (English summary)
Zhang, You Gang *see* **Cai, Yong[2] et al.**
Zhang, Yun Jie *see* **Xiu, Zhi Hong et al.**
Zheng, Nanning *see* **Jia, Xinchun**
Zhou, Changjiu *see* **Yang, Yansheng, 2005k:93122**
Zhou, Shao Sheng (*with* Feng, Gang[1]; Feng, Chun Bo) Robust control for a class of uncertain nonlinear systems: adaptive fuzzy approach based on backstepping. (English summary)
Zhou, Yu Cheng *see* **Chen, Bing[2]**
Zhu, Bao Yan (*with* Zhang, Qing Ling; Da, Ke Ning) State feedback robust H_∞ control for T-S fuzzy descriptor systems. (Chinese. English and Chinese summaries)
— (*with* Zhang, Qing Ling; Zhang, Xuefeng) Decentralized robust guaranteed cost control for uncertain T-S fuzzy interconnected systems with time delays. (English summary)
Zhu, Xin Jian *see* **Wang, Zhen Lei et al.**
Zou, Tao *see* **Li, Shao Yuan[2] et al.**

Items with secondary classifications in 93C42

Açıkmeşe, Ahmet Behçet (*with* Corless, Martin) Robust output tracking for uncertain/nonlinear systems subject to almost constant disturbances. (English summary)
Agamennoni, O. (*with* Škrjanc, I.; Lepetic, M.; Chiacchiarini, H.; Matko, D.) Nonlinear uncertainty model of a magnetic suspension system. (English summary) **2005j:78036**
Aguilar Castro, Jose Lisandro *see* **Cerrada, M. et al.**
Assawinchaichote, Wudhichai (*with* Nguang, Sing Kiong) $\mathscr{H}_\infty$ filtering for fuzzy singularly perturbed systems with pole placement constraints: an LMI approach. (English summary) **2005a:93052**
Bin, Deng *see* **Wang, Jiang et al., 2005k:93073**
Bouamama, Belkacem Ould *see* **Habbi, Hacene et al.**
Bubnicki, Zdzisław ★ Analysis and decision making in uncertain systems. **2005a:93003**
Buyakhiyauĭ, K. (*with* Grigor′ev, L.; Laauad, F.; Khellasi, A.) Optimal fuzzy control for the reduction of energy consumption in distillation columns. (Russian. Russian summary)
Cao, Bing Yuan Research for fuzzy Duoma debt model and its fuzzy solution. (English summary)
Cao, Guang Yi *see* **Dong, Wei[3] et al.**
Cerrada, M. (*with* Aguilar Castro, Jose Lisandro; Colina-Morles, Eliezer; Titli, A.) Dynamical membership functions: an approach for adaptive fuzzy modelling. (English summary)
Chen, Bing[2] *see* **Xu, Sheng Yuan et al.**
Chen, Chung-Ho Robust design based on fuzzy optimization. (English summary) **2005e:93059**
Chen, Guanrong *see* **Feng, Gang[1], 2005e:93083**
Chen, Wen Shi *see* **Zhou, Jun[1] et al.**
Chiacchiarini, H. *see* **Agamennoni, O. et al., 2005j:78036**
Chin, Cheng-Chung *see* **Lin, Cheng-Jian**
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Dey, Sitansu *see* **Ray, Goshaidas, 2005f:93030**
Donchenko, V. S. (*with* Kirichenko, N. F.; Krivonos, Yu. G.) Plural uncertainty models: the Hough transform. (Ukrainian. English summary)
Dong, Wei[3] (*with* Cao, Guang Yi; Zhu, Xin Jian) Nonlinear modelling and control based on adaptive fuzzy technique for PEMFC. (English summary)
Dou, Chun Xia (*with* Zhang, Shu Qing[2]) H_∞ tracking control for coupled spatio-temporal chaos with uncertain model based on fuzzy observers. (Chinese. English and Chinese summaries)
Dumitrescu, Silviu *see* **Pop, Bogdana, 2005a:90204**
Espinosa, Jairo (*with* Vandewalle, Joos; Wertz, Vincent) ★ Fuzzy logic, identification and predictive control. **2005g:93001**
Feng, Gang[1] (*with* Chen, Guanrong) Adaptive control of discrete-time chaotic systems: a fuzzy control approach. (English summary) **2005e:93083**
Fujimoto, Hideo (*with* Tao, Yu; Yamakawa, Satoko) An interactive approach to fuzzy-based robust design. (English summary) (*see* **2005b:90008**)
Gao, Mei Jing *see* **Wu, Zhong Qiang et al.**
Gerla, Giangiacomo Fuzzy logic programming and fuzzy control. (English summary) **2005k:68193**
Grigor′ev, L. *see* **Buyakhiyauĭ, K. et al.**
Gu, Hai Jun *see* **Zhang, Tian Ping[1] et al.**
Guerra, Thierry Marie (*with* Vermeiren, Laurent) LMI-based relaxed nonquadratic stabilization conditions for nonlinear systems in the Takagi-Sugeno's form. (English summary)
Guo, Xiao Jun (*with* Hu, Yun An; Wang, Jing Ye) Design of multi-surface sliding mode controller for a class of nonlinear systems. (Chinese. English and Chinese summaries) **2005a:93032**
Guo-Dong, Qiao *see* **Wang, Jiang et al., 2005k:93073**
Habbi, Hacene (*with* Zelmat, Mimoun; Bouamama, Belkacem Ould) A dynamic fuzzy model for a drum-boiler-turbine system. (English summary)
Hirst, A. J. *see* **Latif-Shabgahi, G.**
Hu, Shou Song (*with* Liu, Ya) Robust H_∞ control of multiple time-delay uncertain nonlinear system using fuzzy model and adaptive neural network. (English summary) **2005f:93050**
Hu, Yun An *see* **Guo, Xiao Jun et al., 2005a:93032**
Huang, Chongfu (*with* Moraga, Claudio) Extracting fuzzy if-then rules by using the information matrix technique. (English summary) **2005k:68200**
Jia, Li[1] (*with* Yu, Jin Shou) An intelligent control system based on recurrent neural fuzzy network and its application to CSTR. (English summary)
Jing, Yuan Wei *see* **Wei, Xin Jiang et al.**
Kang, Hyung-Jin *see* **Park, Chang-Woo**
Khellasi, A. *see* **Buyakhiyauĭ, K. et al.**
Kim, Euntai *see* **Kim, Jae-Hun et al., 2005h:37075**
Kim, Jae-Hun (*with* Park, Chang-Woo; Kim, Euntai; Park, Mignon) Fuzzy adaptive synchronization of uncertain chaotic systems. (English summary) **2005h:37075**
Kirichenko, N. F. *see* **Donchenko, V. S. et al.**
Klimke, Andreas (*with* Willner, Kai; Wohlmuth, Barbara I.) Uncertainty modeling using fuzzy arithmetic based on sparse grids: applications to dynamic systems. (English summary) **2005i:70007**
Kouikoglou, Vassilis S. *see* **Zhang, Runtong et al., 2005f:60005**
Krivonos, Yu. G. *see* **Donchenko, V. S. et al.**
Kruglov, V. V. (*with* Uskov, A. A.) A sufficient condition for the stability of closed-loop control systems with fuzzy logic controllers. (Russian. Russian summary)
Laauad, F. *see* **Buyakhiyauĭ, K. et al.**
Lam, James *see* **Xu, Sheng Yuan et al.**
Lara-Rosano, F. *see* **Liu, Xiang-Jie**
Latif-Shabgahi, G. (*with* Hirst, A. J.) A fuzzy voting scheme for hardware and software fault tolerant systems. (English summary)
Le Khung Lan Analysis of the robust stability of systems with fuzzy parameters. (Russian. Russian summary) **2005k:93163**
Lepetic, M. *see* **Agamennoni, O. et al., 2005j:78036**
Łęski, Jacek M. (*with* Czogała, Tomasz) A fuzzy system with ε-insensitive learning of premises and consequences of if-then rules. (English summary) **2005m:68181**
Li, Jie *see* **Wu, Zhong Qiang et al.**
Li, Tao[4] *see* **Zhou, Shao Sheng**
Lin, Cheng-Jian (*with* Chin, Cheng-Chung) Recurrent wavelet-based neuro fuzzy networks for dynamic system identification. (English summary)
Liu, Guo Rong (*with* Luo, Yi Ping; Wan, Bai Wu) H_2/H_∞ fuzzy output feedback control for nonlinear MIMO systems. (Chinese. English and Chinese summaries)
Liu, Peng[2] *see* **Tang, Gong You et al.**
Liu, Pin-Lin (*with* Shyr, Wen-Jye) Another sufficient condition for the stability of grey discrete-time systems. (English summary)
Liu, Xiang-Jie (*with* Lara-Rosano, F.) Model-reference adaptive control using associate memory network. (English summary)
Liu, Ya *see* **Hu, Shou Song, 2005f:93050**
Luo, Yi Ping *see* **Liu, Guo Rong et al.**
Matko, D. *see* **Agamennoni, O. et al., 2005j:78036**
Moraga, Claudio *see* **Huang, Chongfu, 2005k:68200**
Nguang, Sing Kiong (*with* Shi, Peng) Fuzzy $\mathscr{H}_\infty$ output feedback control of nonlinear systems under sampled measurements. (English summary)
— *see also* **Assawinchaichote, Wudhichai, 2005a:93052**
Okuda, Tetsuji *see* **Yoshikawa, Shin-ichi, (2005b:90008)**
Park, Chang-Woo (*with* Kang, Hyung-Jin) Graphical and numerical approach to robust stability analysis of fuzzy modeled systems with parametric uncertainty and disturbance. (English summary)
— *see also* **Kim, Jae-Hun et al., 2005h:37075**
Park, Mignon *see* **Kim, Jae-Hun et al., 2005h:37075**
Phillis, Yannis A. *see* **Zhang, Runtong et al., 2005f:60005**
Pop, Bogdana (*with* Dumitrescu, Silviu) Fuzzy control rules in linear fractional programming problems. (English and Romanian summaries) **2005a:90204**
Qiu, Yang *see* **Qu, Wenzhong et al.**
Qu, Wenzhong (*with* Sun, Jin Cai; Qiu, Yang) Active control of vibration using a fuzzy control method. (English summary)
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Zinober, Alan S. I. *see* **Xia, Xiaohua**, **2005b:93107** *and* **Engelberg, Shlomo**, **2005m:93088**
Zou, Yun *see* **Xu, Hui Ling**
Zuber, I. E. Terminal control for nonstationary discrete systems. (English summary) **2005f:93110**

— Terminal output control for nonlinear time-dependent discrete systems. (Russian. English and Russian summaries) **2005g:93075**

Items with secondary classifications in 93C55

Abd-Elrady, E. (*with* Söderström, Torsten; Wigren, T.) Periodic signal modeling based on Liénard's equation. (English summary) **2005f:93038**

Alessandri, Angelo (*with* Baglietto, Marco; Battistelli, Giorgio) On estimation error bounds for receding-horizon filters using quadratic boundedness. (English summary) **2005b:93152**

— (*with* Baglietto, Marco; Battistelli, Giorgio) Robust receding-horizon state estimation for uncertain discrete-time linear systems. (English summary) **2005k:93216**

Alonso-Quesada, S. *see* **Bilbao-Guillerna, A. et al.**

Alpay, Daniel (*with* Dijksma, Aad; Volok, Dan) Évaluation ponctuelle et espace de Hardy: le cas multi-échelle. (English and French summaries) [Point evaluation and Hardy space: the multiscale case] **2005k:46059**

Amato, Francesco[2] (*with* Ariola, Marco) Finite-time control of discrete-time linear systems. (English summary) **2005k:93090**

Ammar, Sabeur (*with* Vivalda, Jean-Claude) On the genericity of the observability of controlled discrete-time systems. (English summary) **2005m:93020**

Angeli, David *see* **Casavola, Alessandro et al., 2005h:93071**

Aranda-Bricaire, Eduardo (*with* Kotta, Ülle) A geometric solution to the dynamic disturbance decoupling for discrete-time nonlinear systems. (English summary) **2005a:93076**

Ariola, Marco *see* **Amato, Francesco[2], 2005k:93090**

Arutyunov, Aram V. (*with* Marinkovich, B.) Necessary optimality conditions for discrete optimal control problems. (Russian. Russian summary) **2005m:49043**

Baglietto, Marco *see* **Alessandri, Angelo et al., 2005b:93152** *and* **2005k:93216**

Bailey, James M. *see* **Chellaboina, Vijaya-Sekhar et al., 2005e:39027**

Baklan, I. V. *see* **Bidyuk, P. I. et al., 2005h:62233**

Bakule, L. (*with* Rodellar, J.; Rossell i Garriga, Josep Maria) Overlapping quadratic optimal control of time-varying discrete-time systems. (English summary) **2005c:49069**

Balint, A. M. *see* **Kaslik, E. et al., 2005m:93014**

Balint, Ş. *see* **Kaslik, E. et al., 2005m:93014**

Balogh, Andras (*with* Krstić, Miroslav) Stability of partial difference equations governing control gains in infinite-dimensional backstepping. (English summary) **2005e:93120**

Bara, G. Iulia (*with* Boutayeb, Mohamed) Static output feedback stabilization with $\mathscr{H}_\infty$ performance for linear discrete-time systems. (English summary)

Barambones, O. *see* **de la Sen, Manuel et al.**

Barbosa, Ramiro S. (*with* Tenreiro Machado, J. A.; Ferreira, Isabel M.) PID controller tuning using fractional calculus concepts. (English summary) **2005c:93040**

Barreiro Blas, Antonio *see* **Delgado Romero, Emma, 2005d:93099**

Bashkov, A. (*with* Kolmanovskiĭ, V. B.; Mao, Xuerong; Matasov, A.) Mean-square filtering problem for discrete Volterra equations. (English summary) **2005c:93098**

Battistelli, Giorgio *see* **Alessandri, Angelo et al., 2005b:93152** *and* **2005k:93216**

Baturin, V. A. (*with* Urbanovich, D. E.) Approximate methods for solving discrete problems of optimal control. (Russian) (*see* **2005c:00020**)

Bauer, Dietmar (*with* Ljung, Lennart) Some facts about the choice of the weighting matrices in Larimore type of subspace algorithms. (English summary) **2005k:93218**

Bian, Guo-Xing *see* **Zhu, Kai-En et al., 2005b:37059**

Bidyuk, P. I. (*with* Baklan, I. V.; Gasanov, A. S.) A systems approach to the analysis of the adequacy of nonlinear models of time series. (Russian. English and Ukrainian summaries) **2005h:62233**

Bilbao-Guillerna, A. (*with* de la Sen, Manuel; Ibeas, Asier; Alonso-Quesada, S.) Robustly multiestimation scheme for discrete control and identification with model reduction and use of fractional hold. (English summary)

Bisiacco, Mauro (*with* Valcher, Maria Elena) Unknown input observers for 2D state-space models. (English summary) **2005e:93022**

Blot, Joël (*with* Crettez, Bertrand) On the smoothness of optimal paths. (English summary) **2005f:91095**

Boutayeb, Mohamed *see* **Bara, G. Iulia**

Boyarski, S. (*with* Shaked, U.) Discrete-time H_∞ and H_2 control with structured disturbances and probability-relaxed requirements. (English summary) **2005f:93045**

Bru, Rafael (*with* Romero, Sergio; Sánchez, Elena) Structural properties of positive periodic discrete-time linear systems: canonical forms. (English summary) **2005d:93026**

Bunich, A. L. Passive and active identification of a linear discrete plant with bounded noise. (Russian. Russian summary) **2005d:93040**

Busłowicz, Mikołaj *see* **Kaczorek, Tadeusz, 2005a:93034**

Caccetta, Louis (*with* Foulds, L. R.; Rumchev, Ventseslav G.) A positive linear discrete-time model of capacity planning and its controllability properties. (English summary) **2005h:93010**

Cai, Xiu Shan *see* **Kou, Chun Hai et al.**

Cai, Yun Ze (*with* He, Xing; Xu, Xiao Ming; Zhang, Wei Dong[1]) Robust H_∞ filtering for an uncertain discrete system with state delay. (Chinese. English and Chinese summaries)

Cao, Yong-Yan (*with* Lin, Zongli) Stability analysis of discrete-time systems with actuator saturation by a saturation-dependent Lyapunov function. (English summary)

Casavola, Alessandro (*with* Angeli, David; Mosca, Edoardo) Global regulation of input-saturated discrete-time linear systems subject to persistent disturbances. (English summary) **2005h:93071**

Chang, Wen Jer (*with* Shing, Chong-Cheng) Discrete fuzzy covariance control for specified decay rate. (English summary)

Chellaboina, Vijaya-Sekhar (*with* Haddad, Wassim M.; Bailey, James M.; Ramakrishnan, Jayanthy) On monotonicity of solutions of discrete-time nonnegative and compartmental dynamical systems. **2005e:39027**

— *see also* **Haddad, Wassim M. et al., 2005a:93008**

Chen, Guanrong *see* **Zhang, Huaizhou**

Chen, Jie[1] (*with* Pan, Feng[2]; Tu, Xuyan) Stability analysis of particle swarm optimization without Lipschitz constraint. (English summary)

Chen, Shinn-Horng (*with* Chou, Jyh-Horng) D-stability robustness for linear discrete uncertain singular systems with delayed perturbations. (English summary) **2005e:93109**

— (*with* Chou, Jyh-Horng) Robust stability analysis for discrete-time LQG system under finite wordlength effects, noise uncertainties and time-varying structured parameter perturbations. (English summary) **2005c:93065**

Chen, Tian-Lun *see* **Zhu, Kai-En et al., 2005b:37059**

Chen, Tie Jun *see* **Zhao, Xue Ping et al.**

Chen, Tong Wen *see* **Xu, Sheng Yuan et al., 2005f:93168** *and* **2005k:93235**

Chen, Wen-Hua *see* **Hu, Xiao-Bing, 2005f:93125**

Chen, Wu Hua (*with* Guan, Zhi Hong; Lu, Xiao Mei) Delay-dependent guaranteed cost control for uncertain discrete-time systems with both state and input delays. (English summary) **2005e:93122**

Chou, Jyh-Horng *see* **Chen, Shinn-Horng, 2005c:93065** *and* **2005e:93109**

Coll, Carmen (*with* Fullana, Màrius J.; Sánchez, Elena) Reachability and observability indices of a discrete-time periodic descriptor system. (English summary) **2005d:93018**

Combettes, Patrick L. (*with* Pesquet, Jean-Christophe) Wavelet-constrained image restoration. (English summary) **2005g:94008**

Commault, Christian A simple graph theoretic characterization of reachability for positive linear systems. (English summary) **2005i:93048**

de Cooman, Gert (*with* Troffaes, Matthias C. M.) Dynamic programming for deterministic discrete-time systems with uncertain gain. (English summary) **2005k:90196**

Coutinho, D. F. (*with* Fu, Minyue; Trofino-Neto, Alexandre) Robust analysis and control for a class of uncertain nonlinear discrete-time systems. (English summary) **2005e:93110**

Crettez, Bertrand *see* **Blot, Joël, 2005f:91095**

Czornik, Adam (*with* Świerniak, Andrzej) On direct controllability of discrete time jump linear system. (English summary) **2005d:93010**

D'Amico, María Belén (*with* Moiola, Jorge L.; Paolini, Eduardo E.) A frequency domain method for analyzing period doubling bifurcations in discrete-time systems. (English summary) **2005g:37096**

— (*with* Moiola, Jorge L.; Paolini, Eduardo E.) Study of degenerate bifurcations in maps: a feedback systems approach. (English summary) **2005b:37105**

De Doná, José A. *see* **Goodwin, Graham C. et al., 2005c:93001**

Delgado Romero, Emma (*with* Barreiro Blas, Antonio) Sonar-based robot navigation using non-linear robust discrete-time observers. (English summary) **2005d:93099**

De Nicolao, Giuseppe *see* **Magni, Lalo et al., 2005g:93106**

(De Santis, Elena) *see* **Casavola, Alessandro et al., 2005h:93071**

Dijksma, Aad *see* **Alpay, Daniel et al., 2005k:46059**

Ding, Steven Xianchun *see* **Zhang, Ping[8] et al.**

Dombrovskiĭ, V. V. (*with* Lyashenko, E. A.) Linear-quadratic control of discrete systems with random parameters and multiplicative noise with an application to the optimization of an investment portfolio. (Russian. Russian summary) **2005e:49069**

Dong, Yuewu (*with* Sun, Ji-tao) Robust stochastic stability and H_∞ performance for a class of uncertain impulsive stochastic systems. (English summary) **2005m:93158**

Du, Chunling *see* **Xie, Lihua et al., 2005d:93045**

Edwards, Christopher *see* **Lai, Nai One et al., 2005b:93151**

ElAli, Taan S. ★ Discrete systems and digital signal processing with MATLAB®. **2005d:93001**

Elia, Nicola When Bode meets Shannon: control-oriented feedback communication schemes. (English summary) **2005d:90019**

Emelichev, Vladimir A. (*with* Krichko, V. N.) A formula for the stability radius of a vector l_∞-extremal trajectory problem. (Russian. Russian summary) **2005d:93101**

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Fagnani, Fabio (*with* Zampieri, Sandro) Quantized stabilization of linear systems: complexity versus performance. (English summary) **2005e:93125**

Fausett, Laurene V. (*with* Murty, Kanuri N.) Controllability, observability and realizability criteria on time scale dynamical systems. (English summary) **2005e:93013**

Feng, En Min *see* **Li, Chun-fa, 2005a:49050**

Feng, Gang[1] H_∞ controller synthesis of piecewise discrete time linear systems. (English summary) **2005d:93052**

— Robust filtering design of piecewise discrete time linear systems. (English summary)

Fernandez-Anaya, Guillermo (*with* Torres-Muñoz, Jorge Antonio) Preservation of stability and stabilization by substitutions in SISO discrete-time systems. (English summary) **2005j:93063**

Ferreira, Cristina (*with* Silva, Fernando Conceição) On the stabilization of linear discrete-time systems. (English summary) **2005d:93111**

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Foo, Y. K. Discrete-time H^∞ filtering with initial condition. (English summary) **2005k:93224**

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Fu, Minyue *see* **Coutinho, D. F. et al., 2005e:93110**

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Fujii, Takao *see* **Kaneko, Osamu, 2005e:93002**

Fullana, Màrius J. *see* **Coll, Carmen et al., 2005d:93018**

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Gałkowski, K. (*with* Vinnikov, Victor) Guest editorial [Multidimensional control systems: theory with a view to applications].

Gao, Huijun (*with* Lam, James; Wang, Chang Hong[1]; Xu, Sheng Yuan) $\mathscr{H}_\infty$ model reduction for discrete time-delay systems: delay-independent and dependent approaches. (English summary) **2005a:93054**

— (*with* Wang, Chang Hong[1]) Robust H_∞ filtering for uncertain discrete-time state-delayed systems: a parameter-dependent Lyapunov approach. (English summary) **2005c:93035**

García Muñoz, T. M. *see* **Sánchez González, C., 2005f:93163**

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Gasanov, A. S. *see* **Bidyuk, P. I. et al., 2005h:62233**

Gatt, George (*with* Kalouptsidis, Nicholas) Identification of discrete-time state affine state space models using cumulants. (English summary)

Gershon, E. (*with* Limebeer, D. J. N.; Shaked, U.; Yaesh, I.) Stochastic H_∞ tracking with preview for state-multiplicative systems. (English summary) **2005f:93047**
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Gilbert, Elmer (*with* Kolmanovsky, Ilya) Nonlinear tracking control in the presence of state and control constraints: a generalized reference governor. (English summary)
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Haddad, Wassim M. (*with* Hui, Qing; Chellaboina, Vijaya-Sekhar; Nersesov, Sergey G.) Vector dissipativity theory for discrete-time large-scale nonlinear dynamical systems. **2005a:93008**
— *see also* **Chellaboina, Vijaya-Sekhar et al.**, **2005e:39027**
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Halpern, Mark E. (*with* Polyak, Boris Teodorovich) Optimization-based design of fixed-order controllers for command following. (English summary)
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Hasiewicz, Zygmunt (*with* Pawlak, Mirosław; Śliwiński, Przemysław) Nonparametric identification of nonlinearities in block-oriented systems by orthogonal wavelets with compact support. (English summary) **2005h:93041**
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Hildebrand, Roland (*with* Gevers, Michel) Quantification of the variance of estimated transfer functions in the presence of undermodeling. (English summary) **2005b:93153**
Hong, Jang-Lee An H^∞ output feedback control for discrete-time state-delayed systems. (English summary) **2005b:93058**
Hsieh, Fu-Shiung Robustness of deadlock avoidance algorithms for sequential processes. (English summary) **2005k:90059**
Hu, Ting Shu (*with* Miller, Daniel E.; Qiu, Li) Null controllable region of LTI discrete-time systems with input saturation. (English summary)
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Huang, Jie[1] *see* **Lan, Weiyao**, **2005a:93051** *and* **2005h:93075**
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Jiang, Guo-Ping (*with* Zheng, Wei Xing[1]) A simple method of chaos control for a class of chaotic discrete-time systems. (English summary)
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Kan, Rui[2] Adaptive switching control of discrete time nonlinear systems based on multiple models. (English summary)
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Kaslik, E. (*with* Balint, A. M.; Grigis, Alain; Balint, Ştefan) On the controllability of some steady states in the case of nonlinear discrete dynamical systems with control. (English summary) **2005m:93014**
Kellett, Christopher M. (*with* Teel, Andrew R.) Discrete-time asymptotic controllability implies smooth control-Lyapunov function. (English summary) **2005d:93105**
— (*with* Teel, Andrew R.) Smooth Lyapunov functions and robustness of stability for difference inclusions. (English summary) **2005c:93071**
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Konigsberg, Zvi Retchkiman To become unstable can be a good dynamical property! (English summary)
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Kotta, Ülle (*with* Pawłuszewicz, Ewa; Nõmm, S.) Generalization of transfer equivalence for discrete-time non-linear systems: comparison of two definitions. (English summary) **2005b:93037**
— Controller and controllability canonical forms for discrete-time nonlinear systems. (English and Estonian summaries) **2005k:93034**
— *see also* **Aranda-Bricaire, Eduardo**, **2005a:93076**
Kou, Chun Hai (*with* Cai, Xiu Shan; Han, Zheng Zhi) Feedback stabilization of discrete-time nonlinear systems by using the control Lyapunov functions. (Chinese. English and Chinese summaries)
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Krstić, Miroslav *see* **Balogh, Andras**, **2005e:93120**
Kuo, Yuen-Cheng (*with* Lin, Wen Wei; Xu, Shu-Fang) Regularization of linear discrete-time periodic descriptor systems by derivative and proportional state feedback. (English summary) **2005b:93026**
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Lan, Weiyao (*with* Huang, Jie[1]) On the discrete-time robust nonlinear servomechanism problem. (English summary) **2005a:93051**
— (*with* Huang, Jie[1]) Robust output regulation for discrete-time nonlinear systems. (English summary) **2005h:93075**
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Li, Yong Xian (*with* Qin, Chao Ying) Distributive multi-sensor data fusion with state equality constraints. (Chinese. English and Chinese summaries)
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Liu, Hua Ping[2] (*with* Sun, Fu-Chun; Sun, Zeng Qi) Reduced-order filtering with energy-to-peak performance for discrete-time Markovian jumping systems. (English summary) **2005f:93167**
Liu, Rui Hua (*with* Zhang, Qing[1]; Yin, Gang George) Asymptotically optimal controls of hybrid linear quadratic regulators in discrete time. (English summary)
Liu, Shi-Qian (*with* Wang, Yuan Gang; Guo, Zhi) Satisfactory filter of linear periodic systems with parameter uncertainty. (English and Chinese summaries)
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— (*with* Shi, Peng; Ismail, Abdulla) Robust Kalman filtering for discrete-time Markovian jump systems with parameter uncertainty. (English summary) **2005h:93166**
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— (*with* Savkin, A. V.) Optimal control via asynchronous communication channels. (English summary) **2005d:93150**

— (*with* Savkin, A. V.) The problem of LQG optimal control via a limited capacity communication channel. (English summary) **2005b:93165**

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Sanfridson, Martin *see* **Rehbinder, Henrik**, **2005m:93091**
de la Sen, Manuel (*with* Garrido, A. J.; Barambones, O.; Maseda, F. J.) Expert schemes for the obtaining of discrete models for LTI systems using real sampling and parameter identification. (English summary)
Shen, Xuemin *see* **Khadra, Anmar et al.**
Sun, Mingxuan (*with* Wang, Danwei; Wang, You Yi[2]) Sampled-data iterative learning control with well-defined relative degree. (English summary) **2005d:93096**
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Zhang, Hua Guang *see* **Huang, Wei**
Zhang, Ping[8] (*with* Ding, Steven Xianchun; Wang, Gui Zeng; Zhou, Dong Hua) A frequency domain approach to fault detection in sampled-data systems. (English summary)
Zheng, Ying[3] *see* **Xie, Linbo et al.**, **2005f:93113**
Zhou, Dong Hua *see* **Zhang, Ping[8] et al.**

Items with secondary classifications in 93C57

Aghdam, Amir G. (*with* Davison, Edward Joseph) Pseudo-decentralized switching control. (English summary)
Alonso-Quesada, S. (*with* de la Sen, Manuel; Bilbao-Guillerna, A.) A supervised discrete adaptive control scheme with multiestimation. (English summary)
Altunel, Haluk *see* **Sezer, M. Erol**, **2005a:93006**
Ammar, Sabeur (*with* Vivalda, Jean-Claude) On the preservation of observability under sampling. (English summary) **2005b:93024**
Artstein, Zvi (*with* Weiss, Gera) State nullification by memoryless output feedback. (English summary) **2005i:93046**
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Benmahammed, K. *see* **Boumehraz, M.**
Bilbao-Guillerna, A. *see* **Alonso-Quesada, S. et al.**
Bokor, József *see* **Stikkel, G. et al.**
Boumehraz, M. (*with* Benmahammed, K.) A switching controller for nonlinear systems via TS fuzzy models. (English summary)
Broomhead, D. S. (*with* Huke, J. P.; Muldoon, M. R.; Stark, Jaroslav) Iterated function system models of digital channels. (English summary) **2005h:94035**
Chadeev, V. M. Digital identification of nonlinear dynamic objects. (Russian. Russian summary) **2005i:93087**
Chen, Guanrong *see* **Yu, Xinghuo et al.**
Chen, Shu Zhong *see* **Wang, Zhi Ming[3] et al.**
Chen, Tong Wen *see* **Xu, Sheng Yuan** *and* **Zhang, Guo Feng[3]**
Chen, Zhi-Long Simultaneous job scheduling and resource allocation on parallel machines. (English summary) **2005a:90059**
Cheng, Dai Zhan (*with* Guo, Lei[1]; Lin, Yuandan; Wang, Yuan[2]) Stabilization of switched linear systems. (English summary) **2005k:93172**
Davison, Edward Joseph *see* **Aghdam, Amir G.**
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Fridman, Emilia (*with* Seuret, Alexandre; Richard, Jean-Pierre) Robust sampled-data stabilization of linear systems: an input delay approach. (English summary)
— (*with* Shaked, U.; Suplin, V.) Input/output delay approach to robust sampled-data H_∞ control. (English summary) **2005j:93027**
Gao, Li Qun (*with* Jing, Li) Asymptotical stabilization of switched linear systems via periodic switching sequences. (Chinese. English and Chinese summaries)
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Ge, Shuzhi Sam *see* **Sun, Zhendong et al.**, **2005k:93028**
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Ichikawa, Akira *see* **Katayama, Hitoshi**, **2005f:93099**
Ishii, Hideaki (*with* Francis, Bruce A.) Quadratic stabilization of sampled-data systems with quantization. (English summary)
— (*with* Başar, Tamer; Tempo, Roberto) Randomized algorithms for quadratic stability of quantized sampled-data systems. (English summary)
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— (*with* Teel, Andrew R.) Weak converse Lyapunov theorems and control-Lyapunov functions. (English summary) **2005e:34026**
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Kim, Dong Kyoo (*with* Park, PooGyeon; Ko, Jeong Wan) Output-feedback $\mathscr{H}_\infty$ control of systems over communication networks using a deterministic switching system approach. (English summary)
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Kollár, László E. (*with* Stépán, Gábor; Turi, János) Dynamics of piecewise linear discontinuous maps. (English summary) **2005d:37179**
Kumar, Ratnesh (*with* Jiang, Shengbing; Zhou, Changyan; Qiu, Wenbin) Polynomial synthesis of supervisor for partially observed discrete-event systems by allowing nondeterminism in control. (English summary) **2005j:93049**
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Li, Zhengguo (*with* Wen, Changyun; Soh, Yeng Chai) Observer-based stabilization of switching linear systems. (English summary)
— (*with* Soh, Yeng Chai; Wen, Changyun) ★ Switched and impulsive systems. **2005k:93001**
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de la Sen, Manuel On the adaptive control of a class of SISO dynamic hybrid systems. (English summary)
— *see also* **Alonso-Quesada, S. et al.**
Seuret, Alexandre *see* **Fridman, Emilia et al.**
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Stikkel, G. (*with* Bokor, József; Szabó, Zoltán István) Necessary and sufficient condition for the controllability of switching linear hybrid systems. (English summary)
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Sun, Zhendong (*with* Ge, Shuzhi Sam; Lee, Tong Heng) Controllability and reachability criteria for switched linear systems. (English summary) **2005k:93028**
— Sampling and control of switched linear systems. (English summary) **2005f:93116**
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Toivonen, Hannu Tapio (*with* Medvedev, Aleksandr Vladislavovich) Damping of harmonic disturbances in sampled-data systems—parameterization of all optimal controllers.

(English summary)
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Wang, Rui (*with* Sun, Wen An; Qi, Li; Zhao, Jun[2]) Guaranteed cost robust control for a class of uncertain switched linear systems. (Chinese. English and Chinese summaries)
Wang, Yuan[2] *see* **Mancilla-Aguilar, J. L. et al., 2005k:49013** *and* **Cheng, Dai Zhan et al., 2005k:93172**
Wang, Zhi Ming[3] (*with* Zheng, Yu Fan; Chen, Shu Zhong) Prototype approach to the stabilization of nonlinear sampled-data systems. (Chinese)
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Xu, Sheng Yuan (*with* Chen, Tong Wen) Robust H_∞ filtering for uncertain impulsive stochastic systems under sampled measurements. (English summary)
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Yi, Yong-Il *see* **Wang, Hsun-Pang et al., 2005f:93129**
Yu, Xinghuo (*with* Yang, Ling[2]; Chen, Guanrong) Discretization behavior analysis of a switching control system from a unified mathematical approach. (English summary)
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Zheng, Yu Fan *see* **Wang, Zhi Ming[3] et al.**
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Items listed otherwise than by author

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Chen, Tong Wen *see* **Zhang, Guo Feng[3]**
De Koning, Willem L. Digital optimal reduced-order control of pulse-width-modulated switched linear systems. (English summary)
Zhang, Guo Feng[3] (*with* Chen, Tong Wen) Comparing digital implementation via the bilinear and step-invariant transformations. (English summary)

Items with secondary classifications in 93C62

Chen, Tong Wen *see* **Li, Dongguang et al.**
Doi, Akimitsu *see* **Hinamoto, Takao et al., 2005d:94032**
Hinamoto, Takao (*with* Sugie, Yuji; Doi, Akimitsu; Muneyasu, Mitsuji) Synthesis of 3-D separable-denominator state-space digital filters with minimum L_2-sensitivity. (English summary) **2005d:94032**
Li, Dongguang (*with* Shah, Sirish L.; Chen, Tong Wen) Analysis of dual-rate inferential control systems. (English summary)
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Chen, Tzer-Shyong (*with* Huang, Jen-Yan) A novel key management scheme for dynamic access control in a user hierarchy. (English summary)
Chen, Wu Hua (*with* Guan, Zhi Hong; Yu, Pei[1]) Delay-dependent stability and H_∞ control of uncertain discrete-time Markovian jump systems with mode-dependent time delays. (English summary) **2005b:93112**
Chen, Yang-zhou (*with* Zhang, Li-guo; Cui, Ping-yuan) Stabilization of linear time-invariant (LTI) planar switched systems. (English and Chinese summaries)
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Fu, Jinbo (*with* Ray, Asok; Lagoa, Constantino M.) Unconstrained optimal control of regular languages. (English summary)
— *see also* **Ray, Asok et al., 2005e:93097**
Gaudin, B. (*with* Marchand, Hervé) Supervisory control of product and hierarchical discrete event systems. (English summary) **2005m:93094**
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Haro, Christophe (*with* Martineau, Patrick[2]; Proust, Christian) Une nouvelle transformation des réseaux de Petri généralisés: l'abstraction généralisée. (English and French summaries) [A new transformation of generalized Petri nets: generalized abstraction] **2005e:93096**
Hashtrudi Zad, S. (*with* Kwong, Raymond H.; Wonham, W. M.) Fault diagnosis in discrete-event systems: incorporating timing information. (English summary) **2005m:93095**
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Hespanha, João P. (*with* Liberzon, Daniel; Morse, A. Stephen) Hysteresis-based switching algorithms for supervisory control of uncertain systems. (English summary)
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Lahaye, Sébastien (*with* Boimond, Jean Louis; Hardouin, Laurent) Linear periodic systems over dioids. (English summary) **2005a:93105**
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Li, Yan Ping[1] (*with* Li, Xue Fei; Wan, Fu Cai; Yuan, Zhong Hu) Research on time-varied process/transition Petri net and its applications. (Chinese. English and Chinese summaries)
Liberzon, Daniel *see* **Hespanha, João P. et al.**
Lin, Feng[1] Theorem of abstraction for equivalent controllers in hybrid systems. (English summary)
— *see also* **Heymann, Michael et al., 2005i:93057**
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Middleton, Richard H. *see* **Zhivoglyadov, Peter V.**
Moon, Jeongseung (*with* Wardi, Yoraï) Optimal control of processing times in single-stage discrete event dynamic systems with blocking. (English summary) **2005m:93097**
Morse, A. Stephen *see* **De Persis, Claudio et al., 2005m:93093** *and* **Hespanha, João P. et al.**
Mosca, Edoardo (*with* Agnoloni, Tommaso) Closed-loop monitoring for early detection of performance losses in feedback-control systems. (English summary) **2005k:93132**
— *see also* **Angeli, David, 2005m:93092**
Murray, Richard M. *see* **Olfati-Saber, Reza, 2005c:93057**
Nijmeijer, Henk *see* **Pogromsky, A. Yu. et al.**
Olfati-Saber, Reza (*with* Murray, Richard M.) Consensus problems in networks of agents with switching topology and time-delays. (English summary) **2005c:93057**
Olsder, Geert Jan Discrete events: timetables, capacity questions, and planning issues for railway systems. **2005a:93107**
Panayiotou, Christos G. *see* **Sun, Gang[1] et al., 2005h:93105**
Parisini, Thomas (*with* Sacone, S.) Stable hybrid control based on discrete-event automata and receding-horizon neural regulators. (English summary)
Plavka, Ján Eigenproblem for monotone and Toeplitz matrices in a max-algebra. (English summary) **2005b:93115**
Pogromsky, A. Yu. (*with* Heemels, W. P. M. H.; Nijmeijer, Henk) On solution concepts and well-posedness of linear relay systems. (English summary)
Prabhu, Vittaldas V. *see* **Cho, Sohyung**
Proust, Christian *see* **Haro, Christophe et al., 2005e:93096**
Qiu, Wenbin *see* **Kumar, Ratnesh et al., 2005j:93049**
Quadrat, Jean-Pierre *see* **Lotito, Pablo A. et al., 2005k:93131**
(de Queiroz, Max H.) *see* **Gaudin, B., 2005m:93094**
Ramachandran, Parthasarathy (*with* Kamath, Manjunath) A sufficient condition for reachability in a general Petri net. (English summary) **2005a:93108**
Ray, Asok (*with* Fu, Jinbo; Lagoa, Constantino M.) Optimal supervisory control of finite state automata. (English summary) **2005e:93097**
— *see also* **Fu, Jinbo et al.**
Ren, Wei[4] (*with* Beard, Randal W.) Consensus seeking in multiagent systems under dynamically changing interaction topologies. (English summary) **2005k:93133**
Resmerita, Stefan *see* **Heymann, Michael et al., 2005i:93057**
Rezg, Nidhal *see* **Achour, Zied et al., 2005f:93114**
Riley, George F. *see* **Sun, Gang[1] et al., 2005h:93105**
Rohloff, Kurt (*with* Lafortune, Stéphane[1]) PSPACE-completeness of modular supervisory control problems. (English summary) **2005k:93134**
Sacone, S. *see* **Parisini, Thomas**
Sangiovanni-Vincentelli, Alberto L. *see* **Balluchi, Andrea et al., 2005a:93099**
Schneider, Gerardo Computing invariance kernels of polygonal hybrid systems. (English summary) **2005h:93104**
Seatzu, Carla *see* **Giua, Alessandro et al., 2005b:93113**
Sheth-Voss, Pieter A. (*with* Willemain, Thomas R.; Haddock, Jorge) Estimating the steady-state mean from short transient simulations. (English summary) **2005k:93135**
Signahl, Mikael Sensitivity analysis via simulation in the presence of discontinuities. (English summary) **2005k:93136**
Simon, Daniel (*with* Benattar, F.) Design of real-time periodic control systems through synchronization and fixed priorities. (English summary)
Su, Rong (*with* Wonham, W. M.) Supervisor reduction for discrete-event systems. (English summary) **2005b:93116**
Sun, Gang[1] (*with* Cassandras, Christos G.; Wardi, Yoraï; Panayiotou, Christos G.; Riley, George F.) Perturbation analysis and optimization of stochastic flow networks. (English summary) **2005h:93105**
Sun, Wen An (*with* Sun, Xi Ming; Zhao, Jun[2]) Asymptotic stability of linear switched systems with polytopic perturbations. (Chinese. English and Chinese summaries)
Sun, Xi Ming *see* **Sun, Wen An et al.**
Sun, Zhendong Stabilizability and insensitivity of switched linear systems. (English summary) **2005c:93058**
— Sampling and control of switched linear systems. (English summary) **2005f:93116**
Tabakow, Iwan Using place invariants to isolate faults in concurrent systems. (English summary)
Takai, Shigemasa Maximizing robustness of supervisors for partially observed discrete event systems. (English summary)
— (*with* Ushio, Toshimitsu) Supervisory control of a class of concurrent discrete event systems under partial observation. (English summary) **2005h:93106**
— (*with* Kumar, Ratnesh; Ushio, Toshimitsu) Characterization of co-observable languages and formulas for their super/sublanguages. (English summary) **2005i:93059**
Thistle, J. G. Undecidability in decentralized supervision. (English summary) **2005k:93137**
Truffet, L. New bounds for timed event graphs inspired by stochastic majorization results. (English summary) **2005i:93060**
— Exploring positively invariant sets by linear systems over idempotent semirings. (English summary) **2005b:93117**
Ushio, Toshimitsu *see* **Takai, Shigemasa et al., 2005h:93106** *and* **2005i:93059**
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Wan, Fu Cai *see* **Li, Yan Ping[1] et al.**
Wardi, Yoraï *see* **Sun, Gang[1] et al., 2005h:93105** *and* **Moon, Jeongseung, 2005m:93097**
Willemain, Thomas R. *see* **Sheth-Voss, Pieter A. et al., 2005k:93135**
Wong, Kai C. (*with* Wonham, W. M.) On the computation of observers in discrete-event systems. (English summary) **2005b:93118**
Wong-Toi, Howard *see* **Balluchi, Andrea et al., 2005a:93099**
Wonham, W. M. *see* **Su, Rong, 2005b:93116**; **Wong, Kai C., 2005b:93118** *and* **Hashtrudi Zad, S. et al., 2005m:93095**
Xie, Xiao-Lan *see* **Achour, Zied et al., 2005f:93114**
Xu, Xuping (*with* Antsaklis, Panos J.) Optimal control of switched systems based on parameterization of the switching instants. (English summary) **2005c:93059**
Yang, Ke (*with* Zhao, Qianchuan) The balance problem of min-max systems is co-NP hard. (English summary) **2005f:93117**
Yu, Haining (*with* Cassandras, Christos G.) Perturbation analysis of feedback-controlled stochastic flow systems. (English summary) **2005b:93119**
Yu, Pei[1] *see* **Chen, Wu Hua et al., 2005b:93112**
Yuan, Zhong Hu *see* **Li, Yan Ping[1] et al.**
Yue, Wuyi *see* **Hu, Qiying, 2005j:93047**
Zhang, Li-guo *see* **Chen, Yang-zhou et al.**
Zhao, Jun[2] *see* **Sun, Wen An et al.**
Zhao, Qianchuan (*with* Zheng, Da-Zhong) On stabilization of min-max systems. (English summary)
— A remark on inseparability of min-max systems. (English summary) **2005a:93109**
— *see also* **Yang, Ke, 2005f:93117**
Zheng, Da-Zhong *see* **Cheng, Yiping, 2005k:93128** *and* **Zhao, Qianchuan**
Zhivoglyadov, Peter V. (*with* Middleton, Richard H.) Stability and switching control design issues for a class of discrete time hybrid systems. (English summary)
Zhou, Changyan *see* **Kumar, Ratnesh et al., 2005j:93049**

Items with secondary classifications in 93C65

Agarwal, Ramesh K. *see* **Mahmoud, Magdi S. et al., 2005h:93051**
Alla, Hassane *see* **David, René Marcel, 2005k:68148**
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Bragen, M. J. *see* **Howard, D. L. et al.**
Burke, J. F., Jr. *see* **Howard, D. L. et al.**
Cao, Xi-Ren Basic ideas for event-based optimization of Markov systems. (English summary) **2005k:90198**
Castillo, Oscar *see* **Melin, Patricia, (2005c:93005)**
Chang, Hyeong Soo On ordinal comparison of policies in Markov reward processes. (English summary) **2005e:93166**
Cheung, To-Yat *see* **Huang, He Jiao et al., 2005f:68107**
Cohen, Guy (*with* Gaubert, Stéphane; Quadrat, Jean-Pierre) Duality and separation theorems in idempotent semimodules. (English summary) **2005e:46007**
Cordier, Marie-Odile *see* **Pencolé, Yannick, 2005m:68207**
Corona, Daniele *see* **Giua, Alessandro et al., 2005i:68062**
Cuzzola, Francesco Alessandro *see* **Ferrari-Trecate, Giancarlo et al.**
Danca, Marius-F. Chaotifying discontinuous dynamical systems via time-delay feedback algorithm. (English summary) **2005c:37055**
Darondeau, Ph. (*with* Xie, Xiao-Lan) Linear control of live marked graphs. (English summary) **2005k:93139**
David, René Marcel (*with* Alla, Hassane) ★ Discrete, continuous, and hybrid Petri nets. **2005k:68148**
van Delft, Ch. (*with* Vial, J.-Ph.) A practical implementation of stochastic programming: an application to the evaluation of option contracts in supply chains. (English summary)
Fang, Yuguang *see* **Loparo, Kenneth A., 2005b:34111**
Feinberg, Eugene A. Continuous time discounted jump Markov decision processes: a discrete-event approach. (English summary) **2005b:90151**
Ferrari-Trecate, Giancarlo (*with* Cuzzola, Francesco Alessandro; Mignone, Domenico; Morari, Manfred) Analysis of discrete-time piecewise affine and hybrid systems. (English summary)
Fujimoto, Kenji (*with* Sugie, Toshiharu) Basic framework for I/O based optimal control of Hamiltonian systems. (English summary) **2005c:49051**
Gao, Huijun (*with* Lam, James; Xu, Sheng Yuan; Wang, Chang Hong[1]) Stabilization and $\mathscr{H}_\infty$ control of two-dimensional Markovian jump systems. (English summary) **2005e:93046**
Garavello, Mauro (*with* Piccoli, Benedetto) Hybrid necessary principle. (English summary) **2005m:49035**
Gaubert, Stéphane *see* **Cohen, Guy et al., 2005e:46007**
Giua, Alessandro (*with* Corona, Daniele; Seatzu, Carla) State estimation of λ-free labeled Petri nets with contact-free nondeterministic transitions. (English summary) **2005i:68062**
Guiaş, Flavius Stochastic models for population dynamics with nonlinear interaction and their deterministic limits. (English summary) (*see* **2005d:92001**)
Hespanha, João P. (*with* Morse, A. Stephen) Switching between stabilizing controllers. (English summary)
Howard, D. L. (*with* Bragen, M. J.; Burke, J. F., Jr.; Love, R. J.) PORTSIM 5: modeling from a seaport level. (English summary)
Huang, He Jiao (*with* Cheung, To-Yat; Mak, Wai Ming) Structure and behavior preservation by Petri-net-based refinements in system design. (English summary) **2005f:68107**
Imura, Jun-ichi Optimal control of sampled-data piecewise affine systems. (English summary)
Ismail, Abdulla (*with* Mahmoud, Magdi S.; Shi, Peng) Output feedback stabilization and disturbance attenuation of time-delay systems with Markovian jump parameters. (English summary) **2005g:93120**

— *see also* **Mahmoud, Magdi S. et al., 2005h:93051**
Jin, Gang *see* **Zhao, Jun[2], 2005b:93139**
Jönsson, Ulf T. Robustness of trajectories with finite time extent. (English summary) **2005k:49083**
Jucan, Toader *see* **Vidraşcu, Cristian, 2005a:68152**
Konigsberg, Zvi Retchkiman Stability analysis of difference equations and its application to discrete event systems modeled with Petri nets. (English summary) **2005g:39012**
Lakshmikantham, V. (*with* Sivasundaram, S.) Asymptotic controllability in terms of two measures of hybrid dynamic systems. **2005d:93123**
Lam, James *see* **Gao, Huijun et al., 2005e:93046**
Liu, Bin[8] (*with* Xi, Yu Geng) Stable nonlinear model predictive controller based on aggregation strategy. (Chinese. English and Chinese summaries)
Loparo, Kenneth A. (*with* Fang, Yuguang) Stability of continuous time jump linear systems. (English summary) **2005b:34111**
Lopez-Benitez, Noé *see* **Tarek, Ahmed, 2005d:90075**
López-Mellado, Ernesto *see* **Rivera-Rangel, I. et al., 2005m:90051**
Love, R. J. *see* **Howard, D. L. et al.**
Mahmoud, Magdi S. (*with* Ismail, Abdulla; Shi, Peng; Agarwal, Ramesh K.) State transformation for $\mathscr{H}_\infty$ control of uncertain jumping delayed systems. (English summary) **2005h:93051**
— *see also* **Ismail, Abdulla et al., 2005g:93120**
Mak, Wai Ming *see* **Huang, He Jiao et al., 2005f:68107**
Melin, Patricia (*with* Castillo, Oscar) Intelligent control of aircraft dynamic systems with a new hybrid neuro-fuzzy-fractal approach. (English summary) (*see* **2005c:93005**)
Middleton, Richard H. *see* **Zhivoglyadov, Peter V., 2005k:93089**
Mignone, Domenico *see* **Ferrari-Trecate, Giancarlo et al.**
Morari, Manfred *see* **Ferrari-Trecate, Giancarlo et al.**
Morse, A. Stephen *see* **Hespanha, João P.**
Pencolé, Yannick (*with* Cordier, Marie-Odile) A formal framework for the decentralised diagnosis of large scale discrete event systems and its application to telecommunication networks. (English summary) **2005m:68207**
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Quadrat, Jean-Pierre *see* **Cohen, Guy et al., 2005e:46007**
Ramírez-Treviño, A. *see* **Rivera-Rangel, I. et al., 2005m:90051**
Rivera-Rangel, I. (*with* Ramírez-Treviño, A.; López-Mellado, Ernesto) Building reduced Petri net models of discrete manufacturing systems. (English summary) **2005m:90051**
Seatzu, Carla *see* **Giua, Alessandro et al., 2005i:68062**
Shi, Peng *see* **Ismail, Abdulla et al., 2005g:93120** *and* **Mahmoud, Magdi S. et al., 2005h:93051**
(Silva, Manuel) *see* **David, René Marcel, 2005k:68148**
Sivasundaram, S. *see* **Lakshmikantham, V., 2005d:93123**
Slyn'ko, V. I. On the stability of a quasilinear hybrid system with inexactly specified switching moments. (Russian. English summary) **2005h:93119**
Song, Wen[2] (*with* Yi, Liang Zhong; Yan, Bing) Liveness of new extended strong asymmetric choice nets. (Chinese. English and Chinese summaries)
Stikkel, G. (*with* Bokor, József; Szabó, Zoltán István) Necessary and sufficient condition for the controllability of switching linear hybrid systems. (English summary)
Sugie, Toshiharu *see* **Fujimoto, Kenji, 2005c:49051**
Szabó, Zoltán István *see* **Stikkel, G. et al.**
Tan, Jindong (*with* Xi, Ning; Wang, Yue-Chao) A singularity-free motion control algorithm for robot manipulators—a hybrid system approach. (English summary)
Tarek, Ahmed (*with* Lopez-Benitez, Noé) Optimal legal firing sequence of Petri nets using linear programming. (English summary) **2005d:90075**
Trakhtenbrot, Boris A. Understanding basic automata theory in the continuous time setting. (English summary) **2005g:68087**
Tripakis, Stavros Decentralized control of discrete-event systems with bounded or unbounded delay communication. (English summary) **2005c:93006**
Ugrinovskiĭ, V. A. *see* **Yoon, Myung-Gon et al., 2005c:93101**
Vial, J.-Ph. *see* **van Delft, Ch.**
Vidraşcu, Cristian (*with* Jucan, Toader) Concurrency-degrees for P/T-nets. **2005a:68152**
Wang, Chang Hong[1] *see* **Gao, Huijun et al., 2005e:93046**
Wang, Long[1] *see* **Xie, Guangming[1], 2005a:93025**
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Xi, Ning *see* **Tan, Jindong et al.**
Xi, Yu Geng *see* **Liu, Bin[8]**
Xie, Guangming[1] (*with* Wang, Long[1]) Necessary and sufficient conditions for controllability and observability of switched impulsive control systems. (English summary) **2005a:93025**
Xie, Xiao-Lan *see* **Darondeau, Ph., 2005k:93139**
Xu, Sheng Yuan *see* **Gao, Huijun et al., 2005e:93046**
Yan, Bing *see* **Song, Wen[2] et al.**
Yang, Zhenyu An algebraic approach towards the controllability of controlled switching linear hybrid systems. (English summary)
Yi, Liang Zhong *see* **Song, Wen[2] et al.**
Yin, Gang George (*with* Zhang, Qing[1]) Stability of nonlinear hybrid systems. (English summary) **2005b:93158**
— *see also* **Zhang, Qing[1], 2005d:91063**
Yoon, Myung-Gon (*with* Ugrinovskiĭ, V. A.; Petersen, Ian R.) Robust finite horizon minimax filtering for discrete-time stochastic uncertain systems. (English summary) **2005c:93101**
Zhang, Qing[1] (*with* Yin, Gang George) Nearly-optimal asset allocation in hybrid stock investment models. (English summary) **2005d:91063**
— *see also* **Yin, Gang George, 2005b:93158**
Zhao, Jun[2] (*with* Jin, Gang) Robust fault-tolerant control for a class of uncertain switched nonlinear systems. (Chinese. English and Chinese summaries) **2005b:93139**
Zhivoglyadov, Peter V. (*with* Middleton, Richard H.) Switching controller design via convex polyhedral Lyapunov functions. (English summary) **2005k:93089**

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Artstein, Zvi On impulses induced by singular perturbations. (English summary) **2005d:93098**
Bernussou, Jacques *see* **Garcia, Germain et al.**
Cao, Liyu (*with* Schwartz, Howard M.) Complementary results on the stability bounds of singularly perturbed systems. (English summary) **2005f:93118**
Chen, Shuwei *see* **Yu, Ji Min et al., 2005a:93111**
Daafouz, Jamal *see* **Garcia, Germain et al.**
Donchev, Tzanko D. (*with* Dontchev, Asen L.) Singular perturbations in infinite-dimensional control systems. (English summary) **2005a:93110**
Dontchev, Asen L. *see* **Donchev, Tzanko D., 2005a:93110**
Dubovik, S. A. Robustness and nonstiffness of singularly perturbed control systems. (Russian. English, Russian and Ukrainian summaries)
Fridman, Leonid M. Application of the method of boundary functions for finding slow periodic solutions of singularly perturbed bang-bang systems. (Russian. Russian summary) **2005m:93098**
Garcia, Germain (*with* Daafouz, Jamal; Bernussou, Jacques) The infinite time near optimal decentralized regulator problem for singularly perturbed systems: a convex optimization approach. (English summary)
Glizer, Valery Y. On stabilization of nonstandard singularly perturbed systems with small delays in state and control. (English summary) **2005c:93060**
Haurie, Alain (*with* Moresino, F.; Vial, J.-Ph.) Singularly perturbed hybrid control systems approximated by structured linear programs. **2005b:93120**
Kabakova, E. V. (*with* Myshkov, S. K.) Stabilization of singular perturbated control systems with incomplete information. (English summary) **2005g:93076**
Mizukami, Koichi *see* **Mukaidani, Hiroaki et al.**
Moresino, F. *see* **Haurie, Alain et al., 2005b:93120**
Mu, Chun Lai *see* **Yu, Ji Min et al., 2005a:93111**
Mu, Xiao Wu *see* **Yu, Ji Min et al., 2005a:93111**
Mukaidani, Hiroaki (*with* Xu, Hua; Mizukami, Koichi) New results for near-optimal control of linear multiparameter singularly perturbed systems. (English summary)
Myshkov, S. K. *see* **Kabakova, E. V., 2005g:93076**
Oloomi, H. (*with* Shafai, B.) Two-time-scale distributions and singular perturbations. (English summary) **2005f:93119**
Schwartz, Howard M. *see* **Cao, Liyu, 2005f:93118**
Semenova, M. M. Decomposition of multirate models of controllable systems. (Russian. English and Russian summaries) **2005m:93099**
Shafai, B. *see* **Oloomi, H., 2005f:93119**
Shen, Yan Jun (*with* Wang, Bing Wen; Zhang, Lin Guo) Adaptive control of a singularly perturbed system based on TAF-MFNN. (Chinese. English and Chinese summaries)
Vial, J.-Ph. *see* **Haurie, Alain et al., 2005b:93120**
Wang, Bing Wen *see* **Shen, Yan Jun et al.**
Xu, Hua *see* **Mukaidani, Hiroaki et al.**
Yu, Ji Min (*with* Mu, Chun Lai; Mu, Xiao Wu; Chen, Shuwei) Output regulation of nonlinear singularly perturbed systems. (English summary) **2005a:93111**
Zhang, Lin Guo *see* **Shen, Yan Jun et al.**

Items with secondary classifications in 93C70

Abbad, Mohammed *see* **El Azouzi, Rachid et al., 2005k:93066**
Akulenko, L. D. The averaging method in problems of the optimal control of oscillations on an extended time interval. (Russian) **2005j:49017**
Altman, Eitan *see* **El Azouzi, Rachid et al., 2005k:93066**
Assawinchaichote, Wudhichai (*with* Nguang, Sing Kiong) $\mathscr{H}_\infty$ filtering for fuzzy singularly perturbed systems with pole placement constraints: an LMI approach. (English summary) **2005a:93052**
Chen, Heng-Hui Stability and chaotic dynamics of a rate gyro with feedback control under uncertain vehicle spin and acceleration. (English summary) **2005g:93053**
Czarnecki, Marc-Olivier Asymptotic control of pairs of oscillators coupled by a repulsion, with nonisolated equilibria. II. The singular case. (English summary) **2005f:34106**
Danilin, A. R. Approximation of a singularly perturbed elliptic optimal control problem with geometric constraints on the control. (English summary) **2005g:49047**
Datta, K. B. (*with* RaiChaudhuri, A.) H_2/H_∞ control of discrete singularly perturbed systems: the state feedback case. (English summary)
El Azouzi, Rachid (*with* Altman, Eitan; Abbad, Mohammed) A Taylor series expansion for H^∞ control of perturbed Markov jump linear systems. (English summary) **2005k:93066**
Ezhov, Vladimir V. (*with* Filar, Jerzy A.; Gondzio, Jacek) An interior point heuristic for the Hamiltonian cycle problem via Markov decision processes. (English summary) **2005k:90202**
Filar, Jerzy A. *see* **Ezhov, Vladimir V. et al., 2005k:90202**
Filatov, O. P. A proof of averaging theorems for differential inclusions. (Russian. English and Russian summaries) **2005h:34029**
Fridman, Emilia Effects of small delays on stability of singularly perturbed systems. (English summary) **2005m:93111**
Gaitsgory, Vladimir On a representation of the limit occupational measures set of a control system with applications to singularly perturbed control systems. (English summary) **2005g:49049**
Glizer, Valery Y. Observability of singularly perturbed linear time-dependent differential systems with small delay. (English summary) **2005c:93015**
Gondzio, Jacek *see* **Ezhov, Vladimir V. et al., 2005k:90202**
Goodall, D. P. *see* **Lin-Chen, Y. Y., 2005h:93137**
Greco, Luca *see* **Innocenti, M. et al.**
Innocenti, M. (*with* Greco, Luca; Pollini, L.) Sliding mode control for two-time scale systems: stability issues. (English summary)
Kalinin, A. I. (*with* Semënov, K. V.) An asymptotic method for optimizing linear singularly perturbed systems with multidimensional controls. (Russian. Russian summary) **2005e:49053**
Krishnarayalu, M. S. Singular perturbation methods for a class of initial and boundary value problems in multi-parameter classical digital control systems. (English summary) **2005b:93095**

Li, Yan (*with* Wang, Jian Liang; Yang, Guang-Hong) Linear quadratic control for singularly perturbed systems. (English summary) **2005g:49063**

Lin-Chen, Y. Y. (*with* Goodall, D. P.) Stabilizing feedbacks for imperfectly known, singularly perturbed nonlinear systems with discrete and distributed delays. (English summary) **2005h:93137**

Ljung, Lennart *see* **Tjärnström, Fredrik**, **2005k:93037**

Maĭlybaev, A. A. Uncontrollability for linear autonomous multi-input dynamical systems depending on parameters. (English summary) **2005a:93021**

Martynyuk, A. A. (*with* Miladzhanov, V. G.) Stability in singularly perturbed systems with structural perturbations. Some applications. (Russian. English and Ukrainian summaries) **2005e:34159**

Miladzhanov, V. G. *see* **Martynyuk, A. A.**, **2005e:34159**

Moreau, Luc[2] *see* **Teel, Andrew R. et al.**, **2005a:93124**

Mukaidani, Hiroaki (*with* Xu, Hua) Recursive computation of Nash strategy for multiparameter singularly perturbed systems. (English summary) **2005g:49066**

— A new design approach for solving linear quadratic Nash games of multiparameter singularly perturbed systems. (English summary)

Nešić, Dragan *see* **Teel, Andrew R. et al.**, **2005a:93124**

Nguang, Sing Kiong *see* **Assawinchaichote, Wudhichai**, **2005a:93052**

Nguyễn Hữ'u Du' (*with* Vu Hoang Linh) Implicit-system approach to the robust stability for a class of singularly perturbed linear systems. (English summary) **2005h:93124**

Nickel, Gregor A new look at boundary perturbations of generators. (English summary) **2005i:47068**

Pollini, L. *see* **Innocenti, M. et al.**

RaiChaudhuri, A. *see* **Datta, K. B.**

Saker, Samir H. Oscillation criteria of second-order half-linear dynamic equations on time scales. (English summary) **2005m:34153**

Semënov, K. V. *see* **Kalinin, A. I.**, **2005e:49053**

Teel, Andrew R. (*with* Moreau, Luc[2]; Nešić, Dragan) A unified framework for input-to-state stability in systems with two time scales. (English summary) **2005a:93124**

Tjärnström, Fredrik (*with* Ljung, Lennart) L_2 model reduction and variance reduction. (English summary) **2005k:93037**

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Vu Hoang Linh *see* **Nguyễn Hữ'u Du'**, **2005h:93124**

Wang, Jian Liang *see* **Li, Yan et al.**, **2005g:49063**

Wang, Jiang (*with* Tsang, Kai Ming) Second-order sliding mode control of a nonlinear singular perturbation system. (Chinese. English and Chinese summaries)

Xu, Hua *see* **Mukaidani, Hiroaki**, **2005g:49066**

Yang, Guang-Hong *see* **Li, Yan et al.**, **2005g:49063**

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Artstein, Zvi Invariant measures and their projections in nonautonomous dynamical systems. (English summary) **2005e:93098**

Cacuci, Dan G. (*with* Ionescu-Bujor, Mihaela; Navon, Ionel Michael) ★ Sensitivity and uncertainty analysis. Vol. II.

Ionescu-Bujor, Mihaela *see* **Cacuci, Dan G. et al.**

Navon, Ionel Michael *see* **Cacuci, Dan G. et al.**

Schaffer, Andrei Stability of the adjoint differential-algebraic equation of the index-3 multibody system equation of motion. (English summary) **2005k:93138**

Items with secondary classifications in 93C73

Angelova, Vera A. (*with* Gu, Da-Wei; Konstantinov, Mikhail M.; Petkov, Petko Khr.) Perturbation bounds for general coupled matrix Riccati equations. (English and Bulgarian summaries) (*see* **2005f:00011**)

Bullo, Francesco Series expansions for analytic systems linear in control. (English summary)

Cassandras, Christos G. *see* **Yu, Haining**, **2005b:93119**

Chlamtac, I. *see* **Zeng, Guoping et al.**, **2005f:93027**

Chung, Wan Kyun *see* **Kwon, S. J.**, **2005d:93002**

Grivet-Talocia, Stefano Passivity enforcement via perturbation of Hamiltonian matrices. (English summary) **2005f:93033**

Gu, Da-Wei *see* **Angelova, Vera A. et al.**, (**2005f:00011**)

Jing, Xing-Jian (*with* Tan, Da-Long; Wang, Yue-Chao) An LMI approach to stability of systems with severe time-delay. (English summary) **2005b:93082**

Konstantinov, Mikhail M. *see* **Angelova, Vera A. et al.**, (**2005f:00011**)

Krasnova, Svetlana Anatol'evna Cascade design of a state observer for nonlinear systems under external perturbations. (Russian. Russian summary) **2005f:93021**

Kuznetsov, V. I. On a construction of an extension of the problem of pure impulse control with boundary conditions. (Russian. Russian summary) **2005d:93007**

Kwon, S. J. (*with* Chung, Wan Kyun) ★ Perturbation compensator based robust tracking control and state estimation of mechanical systems. **2005d:93002**

Mukaidani, Hiroaki Recursive approach of optimal Kalman filtering problem for multiparameter singularly perturbed systems. (English summary) **2005h:93168**

Nakoulima, Ousseynou (*with* Omrane, Abdennebi; Velin, J.) On the Pareto control and no-regret control for distributed systems with incomplete data. (English summary) **2005a:49051**

Omrane, Abdennebi *see* **Nakoulima, Ousseynou et al.**, **2005a:49051**

Petkov, Petko Khr. *see* **Angelova, Vera A. et al.**, (**2005f:00011**)

Puerta, X. *see* **Puerta Sales, Fernando et al.**, **2005e:58069**

Puerta Sales, Fernando (*with* Puerta, X.; Tarragona, S.) Versal deformations in orbit spaces. (English summary) **2005e:58069**

Su, Yi *see* **Zeng, Guoping et al.**, **2005f:93027**

Tan, Da-Long *see* **Jing, Xing-Jian et al.**, **2005b:93082**

Tarragona, S. *see* **Puerta Sales, Fernando et al.**, **2005e:58069**

Velin, J. *see* **Nakoulima, Ousseynou et al.**, **2005a:49051**

Vittot, Michel Perturbation theory and control in classical or quantum mechanics by an inversion formula. (English summary) **2005d:81145**

Wang, Yue-Chao *see* **Jing, Xing-Jian et al.**, **2005b:93082**

Yu, Haining (*with* Cassandras, Christos G.) Perturbation analysis of feedback-controlled stochastic flow systems. (English summary) **2005b:93119**

Zeng, Guoping (*with* Chlamtac, I.; Su, Yi) Nonlinear observers for two classes of perturbed systems. (English summary) **2005f:93027**

Items listed otherwise than by author

Lecture Notes in Control and Information Sciences *see* **Kwon, S. J.**, **2005d:93002**

93C80 Frequency-response methods

de Arruda, G. H. M. (*with* Barros, P. R.) Relay-based closed loop transfer function frequency points estimation. (English summary)

Barros, P. R. *see* **de Arruda, G. H. M.**

Cai, Xiaowen *see* **Loh, Ai Poh et al.**, **2005m:93100**

Chen, Jie[4] *see* **Liu, Wenguo**, **2005a:93112**

Heath, William P. Bias of indirect non-parametric transfer function estimates for plants in closed loop. (English summary)

Liu, Wenguo (*with* Chen, Jie[4]) Model invalidation in l_1 using frequency-domain data. (English summary) **2005a:93112**

Loh, Ai Poh (*with* Cai, Xiaowen; Tan, W. W.) Auto-tuning of phase lead/lag compensators. (English summary) **2005m:93100**

Mazzaro, María Cecilia (*with* Sznaier, Mario) Convex necessary and sufficient conditions for frequency domain model (in)validation under SLTV structured uncertainty. (English summary) **2005e:93099**

Peyton Jones, J. C. Practical frequency response analysis of non-linear time-delayed differential or difference equation models. (English summary) **2005h:93107**

Sznaier, Mario *see* **Mazzaro, María Cecilia**, **2005e:93099**

Tan, W. W. *see* **Loh, Ai Poh et al.**, **2005m:93100**

Vykhovanets, V. S. Polynomial factorization of spectral bases. (Russian. Russian summary) **2005j:93050**

Items with secondary classifications in 93C80

Abdollahi, Abdolaziz *see* **Chademan, A.**, (**2005g:00015**)

Ahmad, M. Omair *see* **Samadi, Saed et al.**, **2005h:94019**

Amaro, Carlos C. (*with* Baruah, Sanjoy K.; Stoyen, Alexander D.; Halang, Wolfgang A.) Non-preemptive scheduling to maximize the minimum global inter-completion time. (English summary)

Anderson, Brian D. O. *see* **Varga, Andras**

Astolfi, Alessandro (*with* Colaneri, P.) A note on the existence of positive realizations. (English summary) **2005f:93032**

Barbosa, Ramiro S. (*with* Tenreiro Machado, J. A.; Ferreira, Isabel M.) PID controller tuning using fractional calculus concepts. (English summary) **2005c:93040**

Baruah, Sanjoy K. *see* **Amaro, Carlos C. et al.**

Boiko, Igor (*with* Fridman, Leonid M.; Castellanos, M. I.) Analysis of second-order sliding-mode algorithms in the frequency domain. (English summary) **2005a:93030**

Braslavsky, Julio H. *see* **Goodwin, Graham C. et al.**

Brown, Lyndon J. (*with* Zhang, Qing[7]) Periodic disturbance cancellation with uncertain frequency. (English summary)

Cantoni, Michael *see* **Date, Paresh**, **2005k:93061** *and* **2005k:93080**

Castellanos, M. I. *see* **Boiko, Igor et al.**, **2005a:93030**

Chademan, A. (*with* Abdollahi, Abdolaziz) Taylor coefficients of rational functions. (English summary) (*see* **2005g:00015**)

Chaoui, F. Z. (*with* Giri, F.; Rochdi, Y.; Haloua, M.; Naitali, A.) System identification based on Hammerstein model. (English summary) **2005m:93037**

Chen, Xinkai (*with* Zhai, Guisheng) Robust control for a class of dynamical systems with uncertainties. (English summary) **2005c:93041**

Cohen, Nir Decoupling of proper transfer functions. (English summary) **2005g:47145**

Colaneri, P. *see* **Astolfi, Alessandro**, **2005f:93032**

Date, Paresh (*with* Cantoni, Michael) A bound on closed-loop performance based on finite-frequency response samples. (English summary) **2005k:93080**

— (*with* Cantoni, Michael) On validating closed-loop behaviour from noisy frequency-response measurements. (English summary) **2005k:93061**

Ding, Steven Xianchun *see* **Zhang, Ping[8] et al.**

Duan, Zhi-Sheng (*with* Huang, Lin[1]; Wang, Long[1]) Multiplier design for extended strict positive realness and its applications. (English summary) **2005g:93048**

Edgar, Thomas F. *see* **Lee, Jietae**

Ferreira, Isabel M. *see* **Barbosa, Ramiro S. et al.**, **2005c:93040**

Fridman, Leonid M. *see* **Boiko, Igor et al.**, **2005a:93030**

Ge, Shuzhi Sam (*with* Li, Guangyong; Lee, Tong Heng) Adaptive NN control for a class of strict-feedback discrete-time nonlinear systems. (English summary)

Gelig, A. Kh. (*with* Zuber, I. E.) Stabilization of time-dependent impulsive systems. (Russian. Russian summary) **2005f:93137**

Giri, F. *see* **Chaoui, F. Z. et al.**, **2005m:93037**

Goodwin, Graham C. (*with* Braslavsky, Julio H.; Serón, María M.) Non-stationary stochastic embedding for transfer function estimation. (English summary)

Halang, Wolfgang A. *see* **Amaro, Carlos C. et al.**

Haloua, M. *see* **Chaoui, F. Z. et al.**, **2005m:93037**

Hara, Shinji *see* **Iwasaki, Tetsuya**, **2005h:93070**

Hsieh, Fu-Shiung Model and control holonic manufacturing systems based on fusion of contract nets and Petri nets. (English summary)

Huang, Lin[1] *see* **Duan, Zhi-Sheng et al.**, **2005g:93048**

Iwasaki, Tetsuya (*with* Hara, Shinji) Generalized KYP lemma: unified frequency domain inequalities with design applications. (English summary) **2005h:93070**

Kiselev, O. N. Minimization of basic performance indices in linear discrete systems. (Russian. Russian summary) **2005k:93082**

Lee, Jietae (*with* Edgar, Thomas F.) ISE tuning rule revisited. (English summary)

Lee, Tong Heng *see* **Ge, Shuzhi Sam et al.**

Li, Guangyong *see* **Ge, Shuzhi Sam et al.**

Muzafarov, S. M. (*with* Yumagulov, Marat G.) The method of elementary components in the problem of the approximate investigation of systems with complex delays. (Russian.

Russian summary) **2005e:93080**
Naitali, A. *see* **Chaoui, F. Z. et al., 2005m:93037**
Pintelon, Rik Frequency-domain subspace system identification using non-parametric noise models. (English summary) **2005k:93241**
— (*with* Schoukens, Johan; Rolain, Y.) Uncertainty of transfer function modelling using prior estimated noise models. (English summary) **2005k:93120**
Prepeliţă, Valeriu 2D continuous-discrete Laplace transformation and applications to 2D systems. (English summary) **2005i:44001**
Proskurnikov, A. V. Properties of the control system providing the smallness of stationary output. (English summary) **2005j:93055**
Rochdi, Y. *see* **Chaoui, F. Z. et al., 2005m:93037**
Rolain, Y. *see* **Pintelon, Rik et al., 2005k:93120**
Rustamov, G. A. Synthesis of a finite control of variable structure for controllable plants whose transfer functions contain zeros. (Russian. Russian summary)
Samadi, Saed (*with* Ahmad, M. Omair; Swamy, M. N. S.) Z-transform of quantized ramp signal. (English summary) **2005h:94019**
Sandberg, Irwin W. Transfer functions and the representation of linear systems. (English summary) **2005h:93082**
Schoukens, Johan *see* **Pintelon, Rik et al., 2005k:93120**
Serón, María M. *see* **Goodwin, Graham C. et al.**
Ştefan, Radu Disturbance attenuation in the chain-scattering formalism: a Popov function based approach. (English summary) **2005a:93061**
Stoyen, Alexander D. *see* **Amaro, Carlos C. et al.**
Swamy, M. N. S. *see* **Samadi, Saed et al., 2005h:94019**
Tenreiro Machado, J. A. *see* **Barbosa, Ramiro S. et al., 2005c:93040**
Tikhonov, A. S. Transfer functions for "curved" conservative systems. (English summary) **2005j:47014**
Varga, Andras (*with* Anderson, Brian D. O.) Accuracy-enhancing methods for balancing-related frequency-weighted model and controller reduction. (English summary)
Wahlberg, Bo Orthogonal rational functions: a transformation analysis. (English summary) **2005d:94021**
Wang, Gui Zeng *see* **Zhang, Ping[8] et al.**
Wang, Long[1] *see* **Duan, Zhi-Sheng et al., 2005g:93048**
Yumagulov, Marat G. *see* **Muzafarov, S. M., 2005e:93080**
Zhai, Guisheng *see* **Chen, Xinkai, 2005c:93041**
Zhang, Ping[8] (*with* Ding, Steven Xianchun; Wang, Gui Zeng; Zhou, Dong Hua) A frequency domain approach to fault detection in sampled-data systems. (English summary)
Zhang, Qing[7] *see* **Brown, Lyndon J.**
Zhou, Dong Hua *see* **Zhang, Ping[8] et al.**
Zuber, I. E. *see* **Gelig, A. Kh., 2005f:93137**

93C83 Control problems involving computers (process control, etc.)

Abdallah, Chaouki T. *see* **Dhakal, Sagar et al., (2005g:93003); Tang, Zhong et al., (2005g:93003)** *and* **Bengea, Sorin C. et al., (2005g:93003)**
Ahmed, N. U. (*with* Li, Cheng[2]) Optimum feedback strategy for access control mechanism modelled as stochastic differential equation in computer network. (English summary) **2005g:93077**
Aĭnutdinov, V. A. (*with* Zaĭtsev, K. S.) Distribution of computational jobs in automatic control systems using the concepts of infinite-valued logic. (Russian. Russian summary)
Ammor, Nezha *see* **El Yacoubi, Samira et al., 2005e:93100**
Ataşlar, Banu *see* **Quet, Pierre-François et al., 2005k:93140**
Bengea, Sorin C. (*with* Hokayem, Peter F.; DeCarlo, Ray A.; Abdallah, Chaouki T.) Suboptimal control techniques for networked hybrid systems. (*see* **2005g:93003**)
Billings, Stephen A. (*with* Mei, S. S.) A new fast cellular automata orthogonal least-squares identification method. (English summary)
Birdwell, J. Douglas *see* **Dhakal, Sagar et al., (2005g:93003)** *and* **Tang, Zhong et al., (2005g:93003)**
Cassandras, Christos G. *see* **Panayiotou, Christos G. et al., (2005g:93003)**
Che, Hao *see* **Movsichoff, Bernardo A. et al., (2005g:93003)**
Chiasson, John *see* **Dhakal, Sagar et al., (2005g:93003)** *and* **Tang, Zhong et al., (2005g:93003)**
D'Andrea, Raffaello *see* **Dullerud, Geir E., 2005h:93108**
Darondeau, Ph. (*with* Xie, Xiao-Lan) Linear control of live marked graphs. (English summary) **2005k:93139**
DeCarlo, Ray A. *see* **Bengea, Sorin C. et al., (2005g:93003)**
Dhakal, Sagar (*with* Hayat, Majeed M.; Ghanem, Jean; Abdallah, Chaouki T.; Jerez, Henry; Chiasson, John; Birdwell, J. Douglas) On the optimization of load balancing in distributed networks in the presence of delay. (*see* **2005g:93003**)
Dullerud, Geir E. (*with* D'Andrea, Raffaello) Distributed control of heterogeneous systems. (English summary) **2005h:93108**
Elia, Nicola *see* **Tatikonda, Sekhar, (2005g:93003)**
El Yacoubi, Samira (*with* Jacewicz, Przemyslaw; Ammor, Nezha) Analyse et contrôle par automates cellulaires. (French summary) [Analysis and control by cellular automata] **2005e:93100**
Evtushenko, N. V. *see* **Vetrova, M. V., 2005k:93141**
Fliess, Michel (*with* Join, Cédric; Mounier, Hugues) An introduction to nonlinear fault diagnosis with an application to a congested internet router. (*see* **2005g:93003**)
Gaĭdamakin, N. A. A thematic differentiation model of information access for a hierarchical structure of a classifier in automated control systems. (Russian. Russian summary) **2005c:93061**
Ghanem, Jean *see* **Dhakal, Sagar et al., (2005g:93003)**
Giua, Alessandro (*with* Piccaluga, Aldo; Seatzu, Carla) Firing rate optimization of cyclic timed event graphs by token allocations. (English summary)
Han, Chong Zhao *see* **Wei, Rui Xuan et al.**
Hayat, Majeed M. *see* **Dhakal, Sagar et al., (2005g:93003)** *and* **Tang, Zhong et al., (2005g:93003)**
Hokayem, Peter F. *see* **Bengea, Sorin C. et al., (2005g:93003)**
Hu, Pin-hui (*with* Yan, Feng) Predictive control to multi-time delayed systems. (Chinese. English and Chinese summaries)
İftar, Altuğ *see* **Quet, Pierre-François et al., 2005k:93140**
Jacewicz, Przemyslaw *see* **El Yacoubi, Samira et al., 2005e:93100**
Jagannathan, Sarargapani (*with* Talluri, J.) Predictive congestion control of ATM networks: multiple sources/single buffer scenario. (English summary)
Jerez, Henry *see* **Dhakal, Sagar et al., (2005g:93003)**
Jia, Li[1] (*with* Yu, Jin Shou) An intelligent control system based on recurrent neural fuzzy network and its application to CSTR. (English summary)
Join, Cédric *see* **Fliess, Michel et al., (2005g:93003)**
Kalyanaraman, Shivkumar *see* **Quet, Pierre-François et al., 2005k:93140**
Kang, Taesam *see* **Quet, Pierre-François et al., 2005k:93140**
Kong, Xiang Yu *see* **Wei, Rui Xuan et al.**
Lagoa, Constantino M. *see* **Movsichoff, Bernardo A. et al., (2005g:93003)**
Levin, Vitaliĭ Il'ich Methods of continuous logic in control problems. (Russian. Russian summary) **2005e:93101**
Lewis, Frank L. *see* **Selmic, Rastko R.**
Li, Cheng[2] *see* **Ahmed, N. U., 2005g:93077**
Mascolo, Saverio Modeling and designing the internet congestion control. (*see* **2005g:93003**)
Mei, S. S. *see* **Billings, Stephen A.**
Mesbahi, Mehran On state-dependent dynamic graphs and their controllability properties. (English summary) **2005i:93061**
Mounier, Hugues *see* **Fliess, Michel et al., (2005g:93003)**
Movsichoff, Bernardo A. (*with* Lagoa, Constantino M.; Che, Hao) A sliding mode approach to traffic engineering in computer networks. (*see* **2005g:93003**)
Özbay, Hitay *see* **Quet, Pierre-François et al., 2005k:93140**
Panayiotou, Christos G. (*with* Cassandras, Christos G.; Sun, Gang[1]; Wardi, Yoraï) Control of communication networks using infinitesimal perturbation analysis of stochastic fluid models. (*see* **2005g:93003**)
Piccaluga, Aldo *see* **Giua, Alessandro et al.**
Quet, Pierre-François (*with* Ataşlar, Banu; Iftar, Altuğ; Özbay, Hitay; Kalyanaraman, Shivkumar; Kang, Taesam) Rate-based flow controllers for communication networks in the presence of uncertain time-varying multiple time-delays. (English summary) **2005k:93140**
Ruan, Xiaoe (*with* Wang, Jianguo; Wan, Bai Wu) Filter-based iterative learning control for linear large-scale industrial processes. (English summary)
Salman, Raied Neural networks of adaptive inverse control systems. (English summary)
Seatzu, Carla *see* **Giua, Alessandro et al.**
Selmic, Rastko R. (*with* Lewis, Frank L.) Neural net backlash compensation with Hebbian tuning using dynamic inversion. (English summary)
Srikant, Rayadurgam Models and methods for analyzing internet congestion control algorithms. (*see* **2005g:93003**)
Sun, Gang[1] *see* **Panayiotou, Christos G. et al., (2005g:93003)**
Talluri, J. *see* **Jagannathan, Sarargapani**
Tang, Zhong (*with* Birdwell, J. Douglas; Chiasson, John; Abdallah, Chaouki T.; Hayat, Majeed M.) Closed loop control of a load balancing network with time delays and processor resource constraints. (*see* **2005g:93003**)
Tatikonda, Sekhar (*with* Elia, Nicola) Communication requirements for networked control. (*see* **2005g:93003**)
Vetrova, M. V. (*with* Evtushenko, N. V.) Synthesis of controllers for abstract and structural automata. (Russian. Russian summary) **2005k:93141**
Wan, Bai Wu *see* **Ruan, Xiaoe et al.**
Wan, Feng *see* **Wang, Li Xin[1]**
Wang, Jianguo *see* **Ruan, Xiaoe et al.**
Wang, Li Xin[1] (*with* Wan, Feng) Structured neural networks for constrained model predictive control. (English summary)
Wardi, Yoraï *see* **Panayiotou, Christos G. et al., (2005g:93003)**
Wei, Rui Xuan (*with* Kong, Xiang Yu; Han, Chong Zhao; Zhang, You Yun; Wu, Li Xun) New online modeling method for a class of nonlinear systems. (Chinese. English and Chinese summaries)
Wu, Li Xun *see* **Wei, Rui Xuan et al.**
Xie, Xiao-Lan *see* **Darondeau, Ph., 2005k:93139**
Yan, Feng *see* **Hu, Pin-hui**
Yu, Jin Shou *see* **Jia, Li[1]**
Zaĭtsev, K. S. *see* **Aĭnutdinov, V. A.**
Zhang, You Yun *see* **Wei, Rui Xuan et al.**

Items with secondary classifications in 93C83

Abdallah, Chaouki T. *see* **Advances in communication control networks, 2005g:93003; Tarbouriech, Sophie et al., 2005g:93003** *and* **(2005g:93003)**
Ahmed, N. U. (*with* Song, Hui) Real-time feedback control of computer networks based on predicted state estimation.
Ariola, Marco *see* **Tarbouriech, Sophie et al., (2005g:93003)**
Balakrishnan, S. N. *see* **Padhi, Radhakant et al.**
Beard, Randal W. *see* **Ren, Wei[4], 2005k:93133**
Bessonov, A. A. *see* **Rudenko, O. G.**
Bortoff, Scott A. *see* **Lynch, Alan F. et al.**
Cerqueira, Jés J. F. *see* **Jungbeck, Mario**
Chatté, Fabien *see* **Niculescu, Silviu-Iulian et al., (2005g:93003)**
Chen, Lingji (*with* Narendra, Kumpati S.) Nonlinear adaptive control using neural networks and multiple models. (English summary)
(Chiasson, John) *see* **Advances in communication control networks, 2005g:93003**
Chiou, Yu-Chiun (*with* Lan, Lawrence W.) Genetic fuzzy logic controller: an iterative evolution algorithm with new encoding method. (English summary)
Choe, Hyojeong (*with* Low, Steven H.) Stabilized Vegas. (*see* **2005g:93003**)
(Dawson, Darren M.) *see* **Jungbeck, Mario**
De Persis, Claudio (*with* De Santis, Raffaella; Morse, A. Stephen) Supervisory control with state-dependent dwell-time logic and constraints. (English summary) **2005m:93093**
De Santis, Raffaella *see* **De Persis, Claudio et al., 2005m:93093**

Fu, Jinbo *see* **Ray, Asok et al., 2005h:68084**
Giua, Alessandro *see* **He, Kevin X., 2005c:68203** *and* **Xie, Xiao-Lan, 2005c:68209**
Gong, Jianqin (*with* Yao, Bin) Neural network adaptive robust control of nonlinear systems in semi-strict feedback form. (English summary)
Gu, Keqin *see* **Niculescu, Silviu-Iulian et al., (2005g:93003)**
Hashtrudi Zad, S. (*with* Kwong, Raymond H.; Wonham, W. M.) Fault diagnosis in discrete-event systems: incorporating timing information. (English summary) **2005m:93095**
He, Kevin X. (*with* Lemmon, Michael D.) Author's reply to: "Counterexamples to: 'Liveness-enforcing supervision of bounded ordinary Petri nets using partial-order methods' " [IEEE Trans. Automat. Control **49** (2004), no. 7, 1217–1220] by X. Xia and A. Giua. **2005c:68203**
— *see also* **Xie, Xiao-Lan, 2005c:68209**
Hou, Zeng-Guang A hierarchical optimization neural network for large-scale dynamic systems. (English summary)
Huang, Jie[1] *see* **Wang, Jin**
Ibeas, Asier (*with* de la Sen, Manuel) Representations of multi-model based controllers by using artificial intelligence tools. (English and Lithuanian summaries)
Jungbeck, Mario (*with* Cerqueira, Jés J. F.) Comments on: "Intelligent optimal control of robotic manipulators using neural networks [Automatica J. IFAC **36** (2000), no. 9, 1355–1364; MR1834727] by Y. H. Kim, F. L. Lewis and D. M. Dawson. (English summary)
(Kim, Young Ho[2]) *see* **Jungbeck, Mario**
Kwong, Raymond H. *see* **Hashtrudi Zad, S. et al., 2005m:93095**
Lagoa, Constantino M. *see* **Ray, Asok et al., 2005h:68084**
Lai, C. D. *see* **Zhang, Lingyun, 2005f:60107**
Lan, Lawrence W. *see* **Chiou, Yu-Chiun**
Lemmon, Michael D. *see* **He, Kevin X., 2005c:68203** *and* **Xie, Xiao-Lan, 2005c:68209**
Levin, Vitaliĭ Il'ich Extension of continuous logic to uncertain variables. (Russian. Russian summary) **2005d:03045**
Lewis, Frank L. *see* **Narendra, Kumpati S.** *and* **Jungbeck, Mario**
Li, Yan (*with* Sundararajan, Narasimman; Saratchandran, P.) Neuro-controller design for nonlinear fighter aircraft maneuver using fully tuned RBF networks. (English summary)
Lotito, Pablo A. (*with* Mancinelli, Elina M.; Quadrat, Jean-Pierre) A min-plus derivation of the fundamental car-traffic law. (English summary) **2005k:93131**
Low, Steven H. *see* **Choe, Hyojeong, (2005g:93003)**
Luzyanina, Tatyana *see* **Niculescu, Silviu-Iulian et al., (2005g:93003)**
Lynch, Alan F. (*with* Bortoff, Scott A.; Röbenack, Klaus) Nonlinear tension observers for web machines. (English summary)
Mahulea, Cristian *see* **Matcovschi, Mihaela-Hanako**
Mancinelli, Elina M. *see* **Lotito, Pablo A. et al., 2005k:93131**
Matcovschi, Mihaela-Hanako (*with* Mahulea, Cristian) Timing in rule-based control of flexible manufacturing systems. (French summary)
Mazenc, Frédéric *see* **Niculescu, Silviu-Iulian et al., (2005g:93003)**
McPhee, D. (*with* Yagoub, M. C. E.) A generic procedure for exact high frequency device characterization using post-processing data. (English summary)
Melchor-Aguilar, Daniel *see* **Niculescu, Silviu-Iulian et al., (2005g:93003)**
Michiels, Wim *see* **Niculescu, Silviu-Iulian et al., (2005g:93003)**
Morse, A. Stephen *see* **De Persis, Claudio et al., 2005m:93093**
Narendra, Kumpati S. (*with* Lewis, Frank L.) Editorial [Special issue on neural network feedback control].
— *see also* **Chen, Lingji**
Niculescu, Silviu-Iulian On delay robustness analysis of a simple control algorithm in high-speed networks. (English summary)
— (*with* Michiels, Wim; Melchor-Aguilar, Daniel; Luzyanina, Tatyana; Mazenc, Frédéric; Gu, Keqin; Chatté, Fabien) Delay effects on the asymptotic stability of various fluid models in high-performance networks. (*see* **2005g:93003**)
Padhi, Radhakant (*with* Balakrishnan, S. N.; Randolph, Timothy) Adaptive-critic based optimal neuro control synthesis for distributed parameter systems. (English summary)
Paganini, Fernando *see* **Wang, Zhikui, (2005g:93003)**
Quadrat, Jean-Pierre *see* **Lotito, Pablo A. et al., 2005k:93131**
Randolph, Timothy *see* **Padhi, Radhakant et al.**
Ray, Asok (*with* Fu, Jinbo; Lagoa, Constantino M.) Optimal supervisory control of regular languages. (English summary) **2005h:68084**
Ren, Wei[4] (*with* Beard, Randal W.) Consensus seeking in multiagent systems under dynamically changing interaction topologies. (English summary) **2005k:93133**
Röbenack, Klaus *see* **Lynch, Alan F. et al.**
Rudenko, O. G. (*with* Bessonov, A. A.) Adaptive control of nonlinear systems using the CMAC neural network. (Russian. English, Russian and Ukrainian summaries)
Runolfsson, Thordur Robust control of discrete-time hybrid systems with uncertain modal dynamics. (English summary)
Saratchandran, P. *see* **Li, Yan et al.**
Schmid, Wolfgang P. (*with* Tzotchev, Dobromir) Statistical surveillance of the parameters of a one-factor Cox-Ingersoll-Ross model. (English summary) **2005c:62190**
Seiler, Peter (*with* Sengupta, Raja) An H_∞ approach to networked control. (English summary) **2005k:93071**
de la Sen, Manuel *see* **Ibeas, Asier**
Sengupta, Raja *see* **Seiler, Peter, 2005k:93071**
Shakkottai, Sanjay Asymptotics of search strategies over a sensor network. (English summary) **2005k:90054**
Song, Hui *see* **Ahmed, N. U.**
Sundararajan, Narasimman *see* **Li, Yan et al.**
Tarbouriech, Sophie (*with* Ariola, Marco; Abdallah, Chaouki T.) Saturated controller design of an ABR explicit rate algorithm for ATM switches. (*see* **2005g:93003**)
— *see also* **Advances in communication control networks, 2005g:93003**
Tavernini, Lucio Generic properties of impulsive hybrid systems. (English summary) **2005h:34015**
Tzotchev, Dobromir *see* **Schmid, Wolfgang P., 2005c:62190**
Wang, Jin (*with* Huang, Jie[1]) Neural network enhanced output regulation in nonlinear systems. (English summary)
Wang, Jun[3] *see* **Zhang, Yunong**
Wang, Zhikui (*with* Paganini, Fernando) Global stability of nonlinear congestion control with time-delay. (*see* **2005g:93003**)
Wonham, W. M. *see* **Hashtrudi Zad, S. et al., 2005m:93095**
Xie, Xiao-Lan (*with* Giua, Alessandro) Counterexamples to: "Liveness-enforcing supervision of bounded ordinary Petri nets using partial-order methods" [IEEE Trans. Automat. Control **47** (2002), no. 7, 1042–1055; MR1911475 (2003d:68191)] by K. X. He and M. D. Lemmon. (English summary) **2005c:68209**
— *see also* **He, Kevin X., 2005c:68203**
Yagoub, M. C. E. *see* **McPhee, D.**
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Zhang, Lingyun (*with* Lai, C. D.) Variance of a randomly stopped sum. (English summary) **2005f:60107**
Zhang, Yunong (*with* Wang, Jun[3]) Recurrent neural networks for nonlinear output regulation. (English summary)

Items listed otherwise than by author

Advances in communication control networks ★ Advances in communication control networks. **2005g:93003**
Lecture Notes in Control and Information Sciences ★ Advances in communication control networks. **2005g:93003**

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Abichou, A. *see* **Beji, L.**
Acho Zuppa, Leonardo *see* **Aguilar, L. T. et al., 2005k:93142**
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Aguilar Ibañez, Carlos (*with* Gutiérrez Frias, O.; Suárez Castañón, M.) Lyapunov-based controller for the inverted pendulum cart system. (English summary)
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Barreiro Blas, Antonio *see* **Delgado Romero, Emma, 2005d:93099**
Beard, Randal W. *see* **Lawton, Jonathan R.**
Beji, L. (*with* Abichou, A.) Tracking control of trim trajectories of a blimp for ascent and descent flight manoeuvres. (English summary)
Berdyshev, V. I. Informativity of a trajectory in the problem of navigation by the field of altitudes. (Russian)
Bertozzi, Andrea L. (*with* Kemp, Mathieu; Marthaler, Daniel) Determining environmental boundaries: asynchronous communication and physical scales. (English summary) **2005h:93109**
Blanchini, Franco (*with* Pellegrino, Felice Andrea; Visentini, Luca) Control of manipulators in a constrained workspace by means of linked invariant sets. (English summary) **2005e:93103**
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Cerqueira, Jés J. F. *see* **Jungbeck, Mario**
Cheah, C. C. (*with* Kawamura, Sadao; Arimoto, Suguru) Stability of hybrid position and force control for robotic manipulator with kinematics and dynamics uncertainties. (English summary)
— (*with* Hirano, Masanori; Kawamura, Sadao; Arimoto, Suguru) Approximate Jacobian control with task-space damping for robot manipulators. (English summary) **2005c:93062**
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Choukri, S. *see* **Kailil, A. et al., 2005e:93105**
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Dawson, Darren M. *see* **Jungbeck, Mario** *and* **Xian, Bin et al.**
Delgado Romero, Emma (*with* Barreiro Blas, Antonio) Sonar-based robot navigation using non-linear robust discrete-time observers. (English summary) **2005d:93099**
Drakunov, S. V. (*with* Floquet, Thierry; Perruquetti, Wilfrid) Stabilization and tracking control for an extended Heisenberg system with a drift. (English summary) **2005k:93145**
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El Alami, Noureddine *see* **Kailil, A. et al., 2005e:93105**
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Gukasyan, A. A. (*with* Matevosyan, A. G.) A stochastic game-theoretic problem for the control of the movement of a two-link manipulator. (Russian. Russian and Armenian summaries)
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Jing, Zhongliang Neural network-based state fusion and adaptive tracking for maneuvering targets. (English summary)
Jungbeck, Mario (*with* Cerqueira, Jés J. F.) Comments on: "Intelligent optimal control of robotic manipulators using neural networks [Automatica J. IFAC **36** (2000), no. 9, 1355–1364; MR1834727] by Y. H. Kim, F. L. Lewis and D. M. Dawson. (English summary)
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Lambrechts, P. F. *see* **Noijen, S. P. M. et al.**
Larin, Vladimir B. Nonsteady modes of movement of a hopping apparatus. (Russian. English, Russian and Ukrainian summaries)
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Lawton, Jonathan R. (*with* Beard, Randal W.) Synchronized multiple spacecraft rotations. (English summary)
Lee, Ho-Hoon (*with* Prevost, J.) A coupled sliding-surface approach for the trajectory control of a flexible-link robot based on a distributed dynamic model. (English summary)
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Li, Guang[2] (*with* Khajepour, Amir) Robust control of a hydraulically driven flexible arm using backstepping technique. (English summary)
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— *see also* **Marshall, Joshua A. et al., 2005h:93111**
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Matevosyan, A. G. *see* **Gukasyan, A. A.**
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Shim, Hyungbo *see* **Son, Young I. et al., 2005e:93106**
Sieber, Jan (*with* Krauskopf, Bernd) Extending the permissible control loop latency for the controlled inverted pendulum. (English summary)
Skjetne, Roger (*with* Fossen, Thor I.; Kokotović, Petar V.) Robust output maneuvering for a class of nonlinear systems. (English summary) **2005m:93104**
Skrzypczyk, Krzysztof Control of a team of mobile robots based on non-cooperative equilibria with partial coordination. (English summary) **2005j:93051**
Slotine, Jean-Jacques E. (*with* Wang, Wei[18]) A study of synchronization and group cooperation using partial contraction theory. (*see* **2005g:93004**)
Son, Young I. (*with* Shim, Hyungbo; Seo, Jin Heon) A dynamic output feedback control law for elastic joint robots via feedback-passivity approach. (English summary) **2005e:93106**
Spong, Mark W. *see* **Chopra, Nikhil et al.,** (**2005g:93003**)
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Sun, Fu-Chun (*with* Li, Han-Xiong; Li, Lei) Robot discrete adaptive control based on dynamic inversion using dynamical neural networks. (English summary)
Szkodny, Tadeusz Modelling and simulation of experimental robot. (English summary)
Tan, Jindong (*with* Xi, Ning; Wang, Yue-Chao) A singularity-free motion control algorithm for robot manipulators—a hybrid system approach. (English summary)
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Wang, Hong[5] *see* **Wen, Jin Huan, 2005g:93081**
Wang, Wei[18] *see* **Slotine, Jean-Jacques E.,** (**2005g:93004**)
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— (*with* Yeung, Simon; Murray, Richard M.) Bifurcation control of rotating stall with actuator magnitude and rate limits. II. Control synthesis and comparison with experiments. (English summary)

Wang, Yue-Chao *see* **Tan, Jindong et al.**
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Wen, Jin Huan (*with* Wang, Hong[5]) A class of robust control strategies for trajectory tracking of uncertain robot manipulators. (Chinese. English and Chinese summaries) **2005g:93081**
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Xi, Ning *see* **Tan, Jindong et al.**
Xian, Bin (*with* de Queiroz, Marcio Santos; Dawson, Darren M.; McIntyre, M. L.) A discontinuous output feedback controller and velocity observer for nonlinear mechanical systems. (English summary)
Xin, Xin (*with* Kaneda, Masahiro[2]) Analysis of the energy-based control for swinging up two pendulums. (English summary) **2005k:93148**
Yang, Lei (*with* Gao, Xiao Hui; Liu, Hong[9]; Cai, He Gao) Cartesian impedance control for HIT dexterous robot hand based on fingertip force sensor. (Chinese. English and Chinese summaries)
Yang, Xin (*with* Watanabe, Keigo; Izumi, Kiyotaka; Kiguchi, Kazuo) A decentralized control system for cooperative transportation by multiple non-holonomic mobile robots. (English summary)
Yeung, Simon *see* **Wang, Yong et al.**
Zhang, Fan (*with* Grocholsky, Ben; Kumar, Vijay[5]; Mintz, Max) Cooperative control for localization of mobile sensor networks. (English summary) (*see* **2005g:93004**)
— (*with* Pereira, Guilherme S.; Kumar, Vijay[5]) Cooperative localization and tracking in distributed robot-sensor networks. (English summary)

Items with secondary classifications in 93C85

Ackermann, Jürgen *see* **Kordt, Michael**
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Aĭrapetyan, V. V. (*with* Gukasyan, A. A.; Manukyan, A. A.) On a problem of the optimal guaranteed control of a manipulator under incomplete information. (Russian. English and Armenian summaries)
Akturk, M. Selim (*with* Gultekin, Hakan; Karasan, Oya Ekin) Robotic cell scheduling with operational flexibility. (English summary) **2005h:90030**
Alvarez-Ramírez, J. (*with* Kelly, Rafael; Cervantes, Ilse) Semiglobal stability of saturated linear PID control for robot manipulators. (English summary)
Anderson, Brian D. O. *see* **Lin, Jie[2] et al., (2005g:93004)**
Andreĭchenko, D. K. (*with* Andreĭchenko, K. P.) On the theory of the stabilization of satellites with elastic rods. (Russian. Russian summary)
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Anisi, David A. (*with* Hamberg, Johan; Hu, Xiao Ming) Nearly time-optimal paths for a ground vehicle. (English summary)
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Arimoto, Suguru (*with* Bae, Ji-Hun; Hashiguchi, H.; Ozawa, Ryuta) Natural resolution of ill-posedness of inverse kinematics for redundant robots under constraints. (English summary) **2005m:70006**
Avetisyan, Vahan Vardgesi (*with* Barsegyan, A. R.) Optimization of the control of the capture of a target object by a robot manipulator under incomplete information. (Russian. English and Armenian summaries)
Bae, Ji-Hun *see* **Arimoto, Suguru et al., 2005m:70006**
Bajodah, Abdulrahman H. (*with* Hodges, Dewey H.; Chen, Ye-Hwa) Inverse dynamics of servo-constraints based on the generalized inverse. (English summary) **2005j:70056**
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Banavar, Ravi N. *see* **Mahindrakar, Arun D. et al.**
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Bartolini, Giorgio (*with* Punta, Elisabetta; Zolezzi, Tullio) Simplex methods for nonlinear uncertain sliding-mode control. (English summary) **2005a:93029**
Beamish, Dan (*with* Peskun, Christopher; Wu, Jian Hong) Critical delay for overshooting in planned arm movements with delayed feedback. (English summary) **2005i:92003**
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Berdyshev, V. I. Navigation by means of the field of altitudes and its fragment. (English summary) **2005h:70029**
Bernardin, Frédéric (*with* Schatzman, Michelle; Lamarque, Claude-Henri) A Stochastic differential equation from friction mechanics. (English and French summaries) **2005j:60123**
Bicchi, Antonio (*with* Chitour, Yacine; Marigo, Alessia) Reachability and steering of rolling polyhedra: a case study in discrete nonholonomy. (English summary) **2005b:93009**
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Bochard, S. *see* **Gaudiller, L., 2005m:74065**
Borisov, V. G. (*with* Ermilov, A. S.; Ermilova, T. V.; Sukhanov, V. M.) Control of the angular motion of a semi-active bundle of bodies, based on estimates of nonmeasurable coordinates obtained by Kalman filtering methods. (Russian. Russian summary)
Broucke, Mireille E. *see* **Marshall, Joshua A. et al., 2005f:91034**
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— (*with* Lewis, Andrew D.) ★ Geometric control of mechanical systems. **2005h:70030**
Burdakov, S. F. (*with* Miroshnik, I. V.; Stel′makov, R. È.) ★ Системы управления движением колесных роботов. (Russian. English and Russian summaries) [Systems for the control of the motion of wheeled robots] **2005a:70008**
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Chen, Guanrong *see* **Cao, Hongjun et al., 2005g:70007**
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Chen, Shuhao (*with* Tao, Gang; Joshi, Suresh Meghashyam) Adaptive actuator failure compensation control for MIMO systems. (English summary) **2005f:93090**
Chen, Xinkai (*with* Kano, Hiroyuki[1]) State observer for a class of nonlinear systems and its application to machine vision. (English summary) **2005g:93019**
Chen, Ye-Hwa *see* **Bajodah, Abdulrahman H. et al., 2005j:70056**
Cherchas, D. B. *see* **Wong, R., 2005f:70011**
Chettibi, T. (*with* Haddad, M.; Labed, A.; Hanchi, S.) Generating optimal dynamic motions for closed-chain robotic systems. (English summary)
Chi, Xue Bin *see* **Cao, Hongjun et al., 2005g:70007**
Chitour, Yacine *see* **Bicchi, Antonio et al., 2005b:93009**
Choi, Dong-Soo (*with* Kim, Seung-Jean; Ha, In-Joong) A phase-plane approach to time-optimal control of single-DOF mechanical systems with friction. (English summary)
Ciraolo, Guido (*with* Chandre, C.; Lima, Ricardo; Vittot, Michel; Pettini, Marco) Control of chaos in Hamiltonian systems. (English summary) **2005i:70032**
Delli Priscoli, Francesco (*with* Pietrabissa, Antonio) Design of a bandwidth-on-demand (BoD) protocol for satellite networks modelled as time-delay systems. (English summary)
Ditkovskiĭ, A. E. *see* **Golubev, Yu. F., 2005h:74049**
Dong, Wenjie On trajectory and force tracking control of constrained mobile manipulators with parameter uncertainty. (English summary)
Duan, Zhi-Sheng *see* **Wang, Jin-Zhi et al.**
Duindam, Vincent (*with* Stramigioli, Stefano) Passive asymptotic curve tracking. (English summary) **2005m:93036**
— (*with* Stramigioli, Stefano) Port-based asymptotic curve tracking for mechanical systems. (English summary) **2005k:70050**
Egeland, Olav *see* **Shiryaev, A. S. et al., 2005m:93132**
El-Gohary, Awad I. Optimal control of damping rotation of a rigid body using fly wheels with friction. (English summary)
— Optimal control of rigid body motion with the help of rotors using stereographic coordinates. (English summary) **2005m:70090**
Ermilov, A. S. *see* **Borisov, V. G. et al.**
Ermilova, T. V. *see* **Borisov, V. G. et al.**
Farber, Michael S. (*with* Yuzvinsky, Sergey) Topological robotics: subspace arrangements and collision free motion planning. (English summary) **2005i:55019**
Feng, Yong[2] (*with* Yu, Xinghuo; Man, Zhihong) Non-singular terminal sliding mode control of rigid manipulators. (English summary)
— *see also* **Zhang, Niao Na et al.**
Ferretti, Gianni (*with* Magnani, Gianantonio; Rocco, Paolo) Single and multistate integral friction models. (English summary) **2005g:70028**
(Fet, Ya. I.) *see* **Kolmogorov and cybernetics, 2005a:94001**
Figurina, Tatiana Controlled quasistatic motions of a two-link robot on a horizontal plane. (Russian. Russian summary) **2005e:70009**
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Francis, Bruce A. *see* **Marshall, Joshua A. et al., 2005f:91034**
Frangos, C. (*with* Yavin, Y.) Control of the motion of a small-scale car with four steerable wheels. (English summary)
— *see also* **Yavin, Y.**
Galaguz, T. A. *see* **Tunik, A. A., 2005c:93093**
Gao, Xin Bo *see* **Li, Jie et al.**
García-Canseco, Eloísa *see* **Ortega, Romeo, 2005k:93187**
Gaudiller, L. (*with* Bochard, S.) Adaptive active control of flexible structures subjected to rigid body displacements. (English summary) **2005m:74065**
Ge, Shuzhi Sam (*with* Wang, Zhuping; Lee, Tong Heng) Adaptive stabilization of uncertain nonholonomic systems by state and output feedback. (English summary)
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Glumov, V. M. *see* **Rutkovskiĭ, V. Yu. et al., 2005d:70012**
Golubev, Yu. F. (*with* Ditkovskiĭ, A. E.) Control of an elastic manipulator taking into account the useful load and the force of gravity. (Russian. Russian summary) **2005h:74049**
Gómez-Estern, Fabio (*with* van der Schaft, A. J.) Physical damping in IDA-PBC controlled underactuated mechanical systems. (English summary) **2005k:93178**
Goto, Norihiro (*with* Kawakita, Takashi) Bifurcation analysis for the inertial coupling problem of a reentry vehicle. (English summary) (*see* **2005c:93005**)
Goto, Satoru *see* **Nakamura, Masatoshi[2] et al.**
Griesse, Roland (*with* Walther, Andrea) Using AD-generated derivatives in optimal control of an industrial robot. (English summary) (*see* **2005a:00022**)
Gukasyan, A. A. *see* **Aĭrapetyan, V. V. et al.**
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Hacioglu, Yuksel *see* **Yagiz, Nurkan**
Haddad, M. *see* **Chettibi, T. et al.**
Hamberg, Johan *see* **Anisi, David A. et al.**
Han, Youngmo A robust algorithm for model-following control of under-actuated systems, and its application to a non-holonomic robot and an aircraft. (English summary)
Hanchi, S. *see* **Chettibi, T. et al.**
Hashem, M. M. A. *see* **Watanabe, Keigo, 2005c:93003**
Hashiguchi, H. *see* **Arimoto, Suguru et al., 2005m:70006**
Herman, Przemysław Inverse dynamics control in terms of unnormalized quasi-velocities. (English summary) **2005i:70008**
Ho, Ming-Tzu (*with* Lu, Jun-Ming) H_∞ PID controller design for Lur'e systems and its application to a ball and wheel apparatus. (English summary)
Hodges, Dewey H. *see* **Bajodah, Abdulrahman H. et al., 2005j:70056**
Holzhüter, Thomas Optimal regulator for the inverted pendulum via Euler-Lagrange backward integration. (English summary)
Hou, Xue-Zhang (*with* Tsui, Sze-Kai) Analysis and control of a two-link and three-joint elastic robot arm. (English summary) **2005b:93041**
Hristu-Varsakelis, D. (*with* Shao, Cheng[2]) Biologically-inspired optimal control: learning from social insects. (English summary) **2005h:49097**
— (*with* Shao, Cheng[2]) Corrections to: "Biologically-inspired optimal control: learning from social insects" [Internat. J. Control **77** (2004), no. 18, 1549–1566; MR2110215 (2005h:49097)].

Hsieh, K.-Y. *see* **Wai, R.-J. et al.**
Hu, Xiao Ming *see* **Anisi, David A. et al.** *and* **Rehbinder, Henrik**
Huang, Lin[1] *see* **Wang, Jin-Zhi et al.**
Huang, Sen-Wei *see* **Lin, Chun-Liang et al., 2005d:93081**
Huang, Yuan Can Stability analysis of Lagrange neural networks. (Chinese. English and Chinese summaries)
Ikuta, Koya (*with* Sakaki, Makoto) A note on the optimality of Riemannian cubic polynomials. (English summary) **2005d:58024**
Indri, Marina Experimental control of a simple robot subject to impacts. (English summary) (*see* **2005b:93007**)
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Jiang, Zhong-Ping *see* **Khac Duc Do et al., 2005e:93070**
Jiao, Li Cheng *see* **Li, Jie et al.**
Jing, Xing-Jian (*with* Wang, Yue-Chao; Tan, Da-Long) Artificial coordinating field and its application to motion planning of robots in uncertain dynamic environments. (English summary) **2005j:70006**
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Justh, E. W. (*with* Krishnaprasad, P. S.) Equilibria and steering laws for planar formations. (English summary) **2005a:93078**
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Kaneda, Masahiro[2] *see* **Xin, Xin et al., 2005b:70005**
Kano, Hiroyuki[1] *see* **Chen, Xinkai, 2005g:93019**
Kapitonov, Boris V. (*with* Perla Menzala, G.) Uniform stabilization and exact control of a multilayered piezoelectric body. (English summary) **2005d:93126**
Kar, I. N. *see* **Purwar, S. et al.**
Karafyllis, Iasson (*with* Tsinias, J.) Non-uniform in time stabilization for linear systems and tracking control for non-holonomic systems in chained form. (English summary) **2005e:93127**
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Kelly, Rafael *see* **Alvarez-Ramírez, J. et al.**
Khac Duc Do (*with* Jiang, Zhong-Ping; Pan, Jie[1]) Simultaneous tracking and stabilization of mobile robots: an adaptive approach. (English summary) **2005e:93070**
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(Kolmogorov, Andreĭ Nikolaevich) *see* **Kolmogorov and cybernetics, 2005a:94001**
Kooi, Bob W. *see* **Reijenga, Karin A. et al.**
Koon, Wang S. *see* **Serban, Radu et al., 2005m:70084**
Kordt, Michael (*with* Ackermann, Jürgen) Aircraft load alleviation by robust yaw-lateral decoupling. (English summary)
Kotta, Ülle *see* **Wang, Jihong et al.**
Krishnaprasad, P. S. *see* **Justh, E. W., 2005a:93078** *and* **Manikonda, Vikram**
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Labed, A. *see* **Chettibi, T. et al.**
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Lamarque, Claude-Henri *see* **Bernardin, Frédéric et al., 2005j:60123**
Larin, Vladimir B. (*with* Matiyasevich, V. M.) An algorithm for the control of the spatial motion of a hopping device. (Russian. English and Ukrainian summaries)
Lee, Tong Heng *see* **Ge, Shuzhi Sam et al.**
Leine, Remco I. (*with* Nijmeijer, Henk) ★ Dynamics and bifurcations of non-smooth mechanical systems. **2005k:34001**
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Lewis, Andrew D. *see* **Bullo, Francesco, 2005h:70030**
Li, Jie (*with* Gao, Xin Bo; Jiao, Li Cheng) Fuzzy CLOPE algorithm and its parameter optimal choice. (Chinese. English and Chinese summaries)
Li, Shihua *see* **Tian, Yu Ping**[1]
Lima, Ricardo *see* **Ciraolo, Guido et al., 2005i:70032**
Lin, Chun-Liang (*with* Lai, Rei-Min; Huang, Sen-Wei) Missile autopilot design using dynamic fuzzy gain-scheduling technique. (English summary) **2005d:93081**
Lin, Jie[2] (*with* Morse, A. Stephen; Anderson, Brian D. O.) The multi-agent rendezvous problem. An extended summary. (English summary) (*see* **2005g:93004**)
Liu, Yun-Gang (*with* Zhang, Ji-Feng) Output-feedback adaptive stabilization control design for non-holonomic systems with strong non-linear drifts. (English summary) **2005m:93139**
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Lu, Jun-Ming *see* **Ho, Ming-Tzu**
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Lynch, Kevin M. Optimal control of the thrusted skate. (English summary)
Magnani, Gianantonio *see* **Ferretti, Gianni et al., 2005g:70028**
Mahindrakar, Arun D. (*with* Banavar, Ravi N.; Reyhanoglu, Mahmut) Controllability and point-to-point control of 3-DOF planar horizontal underactuated manipulators. (English summary)
— (*with* Banavar, Ravi N.; Reyhanoglu, Mahmut) Corrections to: "Controllability and point-to-point control of 3-DOF planar horizontal underactuated manipulators" [Internat. J. Control **78** (2005), no. 1, 1–13; MR2115680].
Man, Zhihong *see* **Feng, Yong**[2] **et al.**
Mangan, Stephen *see* **Wang, Jihong et al.**
Manikonda, Vikram (*with* Krishnaprasad, P. S.) Controllability of a class of underactuated mechanical systems with symmetry. (English summary)
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Marconi, Lorenzo (*with* Isidori, Alberto; Serrani, Andrea) Autonomous vertical landing on an oscillating platform: an internal-model based approach. (English summary)
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Marshall, Joshua A. (*with* Broucke, Mireille E.; Francis, Bruce A.) Formations of vehicles in cyclic pursuit. (English summary) **2005f:91034**
Martynyuk-Chernienko, Yu. A. (*with* Slyn′ko, V. I.) On the synthesis of controls of an inexact system with a conditionally invariant set. (Russian. English and Ukrainian summaries) **2005f:93062**
Matiyasevich, V. M. *see* **Larin, Vladimir B.**
Matyukhin, V. I. Stabilization of the motions of a descent vehicle in the upper layers of the atmosphere. (Russian. Russian summary) **2005f:93150**
— (*with* Pyatnitskiĭ, Evgeniĭ Serafimovich) Controllability of mechanical systems in a class of controls bounded together with their derivatives. (Russian. Russian summary) **2005g:93016**
Mazur, Alicja Hybrid adaptive control laws solving a path following problem for non-holonomic mobile manipulators. (English summary) **2005g:70008**
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van Megen, Yvonne M. G. A. *see* **Reijenga, Karin A. et al.**
Menini, Laura (*with* Tornambè, Antonio) State estimation of (otherwise unobservable) linear mechanical systems through the use of non-smooth impacts: the case of two mating gears. (English summary)
— (*with* Tornambè, Antonio) Velocity observers for non-linear mechanical systems subject to non-smooth impacts. (English summary)
Menon, Padmanabhan K. (*with* Ohlmeyer, E. J.) Computer-aided synthesis of nonlinear autopilots for missiles. (English summary) **2005a:93066**
Miroshnik, I. V. *see* **Burdakov, S. F. et al., 2005a:70008**
Mita, Tsutomu *see* **Xin, Xin et al., 2005b:70005**
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Nakamura, Masatoshi[2] (*with* Goto, Satoru; Kyura, N.) ★ Mechatronic servo system control.
Nijmeijer, Henk *see* **Leine, Remco I., 2005k:34001**
Ögren, Petter (*with* Fiorelli, Edward; Leonard, Naomi Ehrich) Cooperative control of mobile sensor networks: adaptive gradient climbing in a distributed environment. (English summary) **2005b:93086**
Ohlmeyer, E. J. *see* **Menon, Padmanabhan K., 2005a:93066**
Orlov, Yuri V. (*with* Aguilar, L. T.) Non-smooth $\mathscr{H}_\infty$-position control of mechanical manipulators with frictional joints. (English summary) **2005e:93049**
Ortega, Romeo (*with* García-Canseco, Eloísa) Interconnection and damping assignment passivity-based control: a survey. (English summary) **2005k:93187**
Ozawa, Ryuta *see* **Arimoto, Suguru et al., 2005m:70006**
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(Pospelov, D. A.) *see* **Kolmogorov and cybernetics, 2005a:94001**
Prado, Antonio F. Bertachini A. Bi-impulsive control to build a satellite constellation. (English summary) **2005m:70083**
Punta, Elisabetta *see* **Bartolini, Giorgio et al., 2005a:93029**
Purwar, S. (*with* Kar, I. N.; Jha, A. N.) Adaptive control of robot manipulators using fuzzy logic systems under actuator constraints. (English summary)
Pyatnitskiĭ, Evgeniĭ Serafimovich *see* **Matyukhin, V. I., 2005g:93016**
Qi, Ying Celia *see* **Zhao, Yiyuan J.**
Quadrelli, Marco B. Effect of distributed rod and string flexibility on formation dynamic stability. (English summary) **2005c:70031**
Reddy, Chevva Konda *see* **Woolsey, C. A. et al., 2005m:70093**
Rehbinder, Henrik (*with* Hu, Xiao Ming) Drift-free attitude estimation for accelerated rigid bodies. (English summary)
Reif, John H. (*with* Sun, Zheng[1]) On frictional mechanical systems and their computational power. (English summary) **2005f:68145**
Reijenga, Karin A. (*with* van Megen, Yvonne M. G. A.; Kooi, Bob W.; Bakker, Barbara M.; Snoep, Jacky L.; van Verseveld, Henk W.; Westerhoff, Hans V.) Yeast glycolytic oscillations that are not controlled by a single oscillophore: a new definition of oscillophore strength. (English summary)
Ren, Wei[4] (*with* Beard, Randal W.; McLain, Timothy W.) Coordination variables and consensus building in multiple vehicle systems. (English summary) (*see* **2005g:93004**)
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Rocco, Paolo *see* **Ferretti, Gianni et al., 2005g:70028**
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Rutkovskiĭ, V. Yu. (*with* Zemlyakov, S. D.; Sukhanov, V. M.; Glumov, V. M.) A control algorithm for nonlinear multiconnected objects. (English summary) **2005d:70012**
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Sampei, Mitsuji Nonholonomic control experiments—what we have learned from experiments. (English summary) (*see* **2005b:93007**)
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Sepulchre, Rodolphe (*with* Paley, Derek; Leonard, Naomi Ehrich) Collective motion and oscillator synchronization. (English summary) **2005h:37062**
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Shiryaev, A. S. (*with* Ludvigsen, H.; Egeland, Olav) Swinging up the spherical pendulum via stabilization of its first integrals. (English summary) **2005m:93132**

Sirotin, A. N. On the problem of reorientation, optimal with respect to power consumption, with simultaneous braking of a spherically symmetric body over unspecified time. (Russian. Russian summary) **2005j:70057**
(Sivasundaram, S.) *see* **Advances in dynamics and control, 2005c:93005**
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Sukhanov, V. M. *see* **Rutkovskiĭ, V. Yu. et al., 2005d:70012** *and* **Borisov, V. G. et al.**
Suleman, A. Multibody dynamics and nonlinear control of flexible space structures. (English summary)
Sun, Li Xia *see* **Zhang, Niao Na et al.**
Sun, Zheng[1] *see* **Reif, John H., 2005f:68145**
Tabuada, Paulo (*with* Pappas, George J.) Abstractions of Hamiltonian control systems. (English summary) **2005k:93102**
Tan, Da-Long *see* **Jing, Xing-Jian et al., 2005j:70006**
Tanner, Herbert G. ISS properties of nonholonomic vehicles. (English summary) **2005f:93156**
— (*with* Jadbabaie, Ali; Pappas, George J.) Flocking in teams of nonholonomic agents. (English summary) **2005h:70032**
Tao, Gang *see* **Chen, Shuhao et al., 2005f:93090**
Tayebi, Abdelhamid Adaptive iterative learning control for robot manipulators. (English summary)
Tian, Yu Ping[1] (*with* Li, Shihua) Exponential stabilization of nonholonomic dynamic systems by smooth time-varying control. (English summary)
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Tu, C.-Y. *see* **Wai, R.-J. et al.**
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Udrişte, Daniel Ion On a control system of trailer-truck jackknifing. (English summary) (*see* **2005b:00022**)
Urakubo, Takateru (*with* Tsuchiya, Kazuo; Tsujita, Katsuyoshi) Attitude control of a spacecraft with two reaction wheels. (English summary)
Vanualailai, Jito (*with* Sharma, Bibhya) Moving a robot arm: an interesting application of the direct method of Lyapunov. (English and Spanish summaries) **2005i:70009**
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Vittot, Michel *see* **Ciraolo, Guido et al., 2005i:70032**
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Wang, Fu Zhong *see* **Yao, Bo et al.**
Wang, Jihong (*with* Kotta, Ülle; Mangan, Stephen; Wei, Jianlin) Tracking control of nonlinear pneumatic systems using input/output linearization by state feedback. (English summary)
Wang, Jin-Zhi (*with* Huang, Lin[1]; Duan, Zhi-Sheng) Design of controller for a class of pendulum-like system guaranteeing dichotomy. (English summary)
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Watanabe, Keigo (*with* Hashem, M. M. A.) ★ Evolutionary computations. **2005c:93003**
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Wong, R. (*with* Cherchas, D. B.) Hybrid constraint space dynamics and control for robot manipulators. (English summary) **2005f:70011**
Woolsey, C. A. (*with* Leonard, Naomi Ehrich) Stabilizing underwater vehicle motion using internal rotors. (English summary)
— (*with* Reddy, Chevva Konda; Bloch, Anthony M.; Chang, Dong Eui; Leonard, Naomi Ehrich; Marsden, Jerrold E.) Controlled Lagrangian systems with gyroscopic forcing and dissipation. (English summary) **2005m:70093**
Wu, Jian Hong *see* **Beamish, Dan et al., 2005i:92003**
Xin, Xin (*with* Mita, Tsutomu; Kaneda, Masahiro[2]) The posture control of a two-link free flying acrobot with initial angular momentum. (English summary) **2005b:70005**
Yagiz, Nurkan (*with* Hacioglu, Yuksel) Fuzzy sliding modes with moving surface for the robust control of a planar robot. (English summary)
Yang, Chi-Ching (*with* Chen, Hsin-Yuan) Closed-form solution of three-dimensional ideal proportional navigation. (English summary) (*see* **2005c:93005**)
Yao, Bo (*with* Wang, Fu Zhong; Zhang, Qing Ling) LMI-based design of reliable tracking controller. (Chinese. English and Chinese summaries)
Yavin, Y. (*with* Frangos, C.) Control of a three-link manipulator: collision avoidance of a moving obstacle. (English summary)
— (*with* Frangos, C.) Control of a three-link manipulator driven by three spinning disks. (English summary)
— *see also* **Frangos, C.**
Yu, Wen-Shyong H_∞ tracking-based adaptive fuzzy-neural control for MIMO uncertain robotic systems with time delays. (English summary) **2005b:93094**
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Zeng, Hairong (*with* Sepehri, Nariman) Non-linear position control of cooperative hydraulic manipulators handling unknown payloads. (English summary)
Zhang, Ji-Feng *see* **Liu, Yun-Gang, 2005m:93139**
Zhang, Niao Na (*with* Feng, Yong[2]; Sun, Li Xia) Terminal sliding mode control of two-link flexible manipulators. (Chinese. English and Chinese summaries)
Zhang, Qing Ling *see* **Yao, Bo et al.**
(Zhang, Tao[1]) *see* **Nakamura, Masatoshi[2] et al.**
Zhao, Jun[2] (*with* Spong, Mark W.) Hybrid control for global stabilization of the cart-pendulum system. (English summary)
Zhao, Yiyuan J. (*with* Qi, Ying Celia) Minimum fuel powered dynamic soaring of unmanned aerial vehicles utilizing wind gradients. (English summary)
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Items listed otherwise than by author

Advances in dynamics and control ★ Advances in dynamics and control. **2005c:93005**
Cooperative control ★ Cooperative control. **2005g:93004**
Kolmogorov and cybernetics ★ Колмогоров и кибернетика. (Russian) [Kolmogorov and cybernetics] **2005a:94001**
Lecture Notes in Control and Information Sciences ★ Cooperative control. **2005g:93004**

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Abdel Fattah, Hossam A. (*with* Loparo, Kenneth A.) Passivity-based torque and flux tracking for induction motors with magnetic saturation. (English summary)
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Ackermann, Jürgen *see* **Kordt, Michael**
Ahn, Hyeong-Joon (*with* Lee, Sang-Wook; Lee, Sang-Ho; Han, Dong-Chul) Frequency domain control-relevant identification of MIMO AMB rigid rotor. (English summary)
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Azorin, J. M. (*with* Reinoso, O.; Aracil, R.; Ferre, M.) Generalized control method by state convergence for teleoperation systems with time delay. (English summary)
Baillieul, John The geometry of sensor information utilization in nonlinear feedback control of vehicle formations. (English summary) **2005h:93114**
Balint, A. M. *see* **Kaslik, E. et al., 2005g:93083** *and* **2005g:93084**
Balint, Ş.t. *see* **Kaslik, E. et al., 2005g:93083** *and* **2005g:93084**
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Benvenuti, Luca (*with* Di Benedetto, M. D.; Di Gennaro, S.; Sangiovanni-Vincentelli, Alberto L.) Individual cylinder characteristic estimation for a spark injection engine. (English summary)
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Borisov, V. G. (*with* Ermilov, A. S.; Ermilova, T. V.; Sukhanov, V. M.) Control of the angular motion of a semi-active bundle of bodies, based on estimates of nonmeasurable coordinates obtained by Kalman filtering methods. (Russian. Russian summary)
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Caines, Peter E. *see* **Huang, Minyi et al.**
Cassandras, Christos G. (*with* Gokbayrak, Kagan) Optimal control for discrete event and hybrid systems. (English summary) **2005a:93117**
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— (*with* Balint, A. M.; Grigis, Alain; Balint, Şt.) The controllability of the "path capture" and "steady descent" flight of ALFLEX. (English summary) **2005g:93084**
Khatir, Maziar E. (*with* Davison, Edward Joseph) Cooperative control of large systems. (English summary) (*see* **2005g:93004**)
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Lee, Sang-Wook *see* **Ahn, Hyeong-Joon et al.**
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Li, Yan (*with* Sundararajan, Narasimman; Saratchandran, P.) Neuro-controller design for nonlinear fighter aircraft maneuver using fully tuned RBF networks. (English summary)
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Halanay, Andrei (*with* Safta, Carmen Anca) Stabilization of some nonlinear controlled electrohydraulic servosystems. (English summary)
Haurie, Caroline *see* **Mackey, Michael C. et al., (2005a:92001)**
Hennet, Jean-Claude A bimodal scheme for multi-stage production and inventory control. (English summary) **2005k:90025**
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Huang, A. C. *see* **Chen, P. C.**
Huang, Zhi Long *see* **Zhu, W. Q. et al., 2005e:93172**
Ibrir, Salim (*with* Botez, Ruxandra) Robust stabilization of uncertain aircraft active systems. (English summary) **2005k:93201**
Ilchmann, Achim (*with* Thuto, Mosalagae; Townley, Stuart) Input constrained adaptive tracking with applications to exothermic chemical reaction models. (English summary) **2005d:93072**
İnalhan, Gökhan *see* **Stipanović, Dušan M. et al.**
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Jagannathan, Sarargapani (*with* Talluri, J.) Predictive congestion control of ATM networks: multiple sources/single buffer scenario. (English summary)
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Jeltsema, Dimitri (*with* Ortega, Romeo; Scherpen, Jacquelien M. A.) An energy-balancing perspective of interconnection and damping assignment control of nonlinear systems. (English summary)
Jiang, Zhong-Ping *see* **Lee, Ti-Chung** *and* **Khac Duc Do et al.**
Jonsson, B. Lars G. (*with* Gustafsson, Mats; Weston, Vaughan H.; de Hoop, Maarten V.) Retrofocusing of acoustic wave fields by iterated time reversal. (English summary) **2005k:93015**
Joshi, Suresh Meghashyam *see* **Tang, Xidong et al.**
Juang, Jih-Gau (*with* Chio, Jern-Zuin) Fuzzy modelling control for aircraft automatic landing system. (English summary)
Jutan, A. *see* **Liu, Xiao Ping[2] et al.**
Kappel, Franz *see* **Batzel, Jerry J. et al., 2005k:92026**
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Khac Duc Do (*with* Jiang, Zhong-Ping; Pan, Jie[1]; Nijmeijer, Henk) A global output-feedback controller for stabilization and tracking of underactuated ODIN: a spherical underwater vehicle. (English summary)
— (*with* Jiang, Zhong-Ping; Pan, Jie[1]) Robust adaptive path following of underactuated ships. (English summary)
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Koon, Wang S. *see* **Serban, Radu et al., 2005m:70084**
Kozłowski, Krzysztof (*with* Pazderski, Dariusz) Modeling and control of a 4-wheel skid-steering mobile robot. (English summary)
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Kutsenko, I. A. *see* **Volosov, V. V. et al., 2005g:70048**
Lawton, Jonathan R. (*with* Beard, Randal W.) Synchronized multiple spacecraft rotations. (English summary)
Lee, Ti-Chung (*with* Jiang, Zhong-Ping) New cascade approach for global κ-exponential tracking of underactuated ships. (English summary)
Leloup, Jean-Christophe (*with* Goldbeter, Albert) Modeling the mammalian circadian clock: sensitivity analysis and multiplicity of oscillatory mechanisms. (English summary)
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Liao, Ho-En Two discrete oscillator based adaptive notch filters (OSC ANFs) for noisy sinusoids. (English summary)
Liu, Xiao Ping[2] (*with* Jutan, A.; Rohani, S.) Almost disturbance decoupling of MIMO nonlinear systems and application to chemical processes. (English summary)

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Lozano Leal, Rogelio *see* **Avila Vilchis, J. C. et al.**
Mackey, Michael C. (*with* Haurie, Caroline; Bélair, Jacques) Cell replication and control. (*see* **2005a:92001**)
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Martsenyuk, Vasil' P. Qualitative analysis of human cells dynamics: stability, periodicity, bifurcations, control problems. (*see* **2005h:00012**)
— On the problem of choosing a chemotherapy treatment from the point of view of control theory. (Russian. English, Russian and Ukrainian summaries)
Matsuno, Fumitoshi (*with* Ohno, Takashi; Orlov, Yuri V.) Proportional derivative and strain (PDS) boundary feedback control of a flexible space structure with a closed-loop chain mechanism. (English summary)
Matvīchuk, K. S. Asymptotic technical stability with respect to measure of the nonlinear controlled motion of an elastic flying system. (Russian. English and Ukrainian summaries)
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Miele, Angelo On feasibility of interplanetary travel: the flight from earth to mars and back. (English summary) (*see* **2005a:00024**)
Mikulski, Leszek Control structure in optimization problems of bar systems. (English summary)
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Popadinets, V. I. *see* **Volosov, V. V. et al., 2005g:70048**
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Tao, Gang *see* **Tang, Xidong et al.**
Teo, Rodney *see* **Stipanović, Dušan M. et al.**
Thuto, Mosalagae *see* **Ilchmann, Achim et al., 2005d:93072**
Tian, Yu Ping[1] (*with* Yang, Hong Yong[2]) Stability of the internet congestion control with diverse delays. (English summary)
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Verhaegen, Michel *see* **Verdult, Vincent et al., 2005f:93041**
Vielle, B. Mathematical analysis of Mayer waves. (English summary) **2005m:92013**
Volosov, V. V. (*with* Kutsenko, I. A.; Popadinets, V. I.) Mathematical models of the rotational motion of spacecraft with redundant systems of gyrodines and flywheels, and problems of attitude control. I. (Russian. English, Russian and Ukrainian summaries) **2005g:70048**
Voronov, V. A. (*with* Druzhinin, È. I.) The problem of the programmed control of a spacecraft as a nonlinear boundary value problem in state space. (Russian. Russian summary) **2005d:93100**
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Yasins'kiĭ, V. K. (*with* Nīkītīn, Anatolīĭ V.; Dariĭchuk, I. V.) Automatic stabilization of the course of an ocean linear taking into account random perturbations by the methods of Lyapunov-Krasovskiĭ functionals. II. (Russian. English, Russian and Ukrainian summaries) **2005k:93190b**
— *see also* **Rogol', S. L. et al., 2005k:93190a**
Yu, Shuanghe (*with* Yu, Xinghuo; Man, Zhihong) A fuzzy neural network approximator with fast terminal sliding mode and its applications. (English summary) **2005f:93103**
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Zhu, W. Q. (*with* Huang, Zhi Long; Ko, Jan Ming; Ni, Yi Qing) Optimal feedback control of strongly non-linear systems excited by bounded noise. (English summary) **2005e:93172**

Items listed otherwise than by author

Cooperative control ★ Cooperative control. **2005g:93004**
Lecture Notes in Control and Information Sciences ★ Cooperative control. **2005g:93004**

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Bloemen, Hayco H. J. (*with* van den Boom, Ton J. J.; Verbruggen, Henk B.) Optimizing the end-point state-weighting matrix in model-based predictive control. (English summary)
van den Boom, Ton J. J. *see* **Bloemen, Hayco H. J. et al.**
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— *see also* **Goeleven, Daniel, 2005j:93052**
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Chenafa, Mohammed (*with* Mansouri, Abdellah; Bouhenna, Abderrahmane; Etien, Erik; Belaidi, Abdelkader; Denai, Mouloud Azzedine) Global stability of linearizing control with a new robust nonlinear observer of the induction motor. (English summary)
Cheng, Chuwang (*with* Zhao, Qing[3]; Tao, Feng[1]) Analysis of the stability and performance of the integrated fault tolerant control systems. (English summary) **2005b:93121**
Chentsov, A. G. Generalized attraction sets and approximate solutions forming them. (English summary) **2005h:93116**
Chesi, Graziano (*with* Garulli, Andrea; Tesi, Alberto; Vicino, Antonio) Homogeneous Lyapunov functions for systems with structured uncertainties. (English summary)
— (*with* Garulli, Andrea; Tesi, Alberto; Vicino, Antonio) LMI-based computation of optimal quadratic Lyapunov functions for odd polynomial systems. (English summary) **2005g:93085**
— Establishing stability and instability of matrix hypercubes. (English summary) **2005i:93065**
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— (*with* Chellaboina, Vijaya-Sekhar) Stability and dissipativity theory for nonnegative dynamical systems: a unified analysis framework for biological and physiological systems. (English summary) **2005g:93086**
Haeri, Mohammad (*with* Zadehmorshed Beik, H.) Analysis of the convergence and closed loop stability in EDMC. (English summary)
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Heertjes, Marcel (*with* Steinbuch, Maarten) Stability and performance of a variable gain controller with application to a dvd storage drive. (English summary)
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Ohta, Yuzo (*with* Tsuji, Kohkichi; Matsumoto, Tadashi) On the use of piecewise linear M- and M_0-functions for stability analysis of nonlinear composite hereditary systems. (English summary) **2005b:93122**
Olgac, Nejat (*with* Sipahi, Rifat) A practical method for analyzing the stability of neutral type LTI-time delayed systems. (English summary)
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— *see also* **Matcovschi, Mihaela-Hanako, 2005i:93066**
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Sun, Hai Yan (*with* Hou, Chao Zhen) Stability of networked control systems with data packet dropout and multiple-packet transmission. (Chinese. English and Chinese summaries)
Sun, Wen An (*with* Sun, Xi Ming; Zhao, Jun[2]) A sufficient condition for quadratic stability of switched linear systems. (Chinese. English and Chinese summaries)
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Zhao, Qing[3] *see* **Cheng, Chuwang et al., 2005b:93121**
Zhou, Yan[3] *see* **Ji, Guo Jun**
Zhukov, V. P.[1] Instability conditions for a class of nonlinear nonautonomous dynamical systems. (Russian. Russian summary)

Items with secondary classifications in 93D05

Aassila, Mohammed Stability and asymptotic behaviour of solutions of the heat equation. (English summary) **2005c:35140**
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Chen, Xiao Xing Global stability of periodic solutions for a discrete time nonautonomous ratio-dependent predator-prey system. (Chinese. English and Chinese summaries)
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Chesi, Graziano (*with* Garulli, Andrea; Tesi, Alberto; Vicino, Antonio) Polynomially parameter-dependent Lyapunov functions for robust stability of polytopic systems: an LMI approach. (English summary) **2005i:93067**
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— *see also* **Chellaboina, Vijaya-Sekhar et al., 2005h:34199**
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Li, Chun Guang (*with* Liao, Xiaofeng; Wang, Houjun) Stability analysis of fuzzy large-scale systems with time delays in interconnections. (English summary)
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Liberzon, Daniel (*with* Hespanha, João P.) Stabilization of nonlinear systems with limited information feedback. (English summary) **2005m:93126**
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Liu, Qi Ming[2] (*with* Xu, Rui[2]) Persistence and global stability for a delayed nonautonomous single-species model with dispersion and feedback control. (English summary) **2005b:34160**
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Liu, Xingwen (*with* Zhang, Hongbin[1]) Stability analysis of uncertain fuzzy large-scale system. (English summary)
— (*with* Zhang, Hongbin[1]; Zhang, Fengli) Delay-dependent stability of uncertain fuzzy large-scale systems with time delays. (English summary)
— (*with* Zhang, Hongbin[1]) New stability criterion of uncertain systems with time-varying delay. (English summary) **2005m:34180**
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Martsenyuk, Vasil' P. Qualitative analysis of human cells dynamics: stability, periodicity, bifurcations, control problems. (*see* **2005h:00012**)
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Nishimura, Kazuo (*with* Stachurski, John) Stability of stochastic optimal growth models: a new approach. (English summary) **2005k:91222**
de Oliveira, P. J. (*with* Oliveira, Ricardo C. L. F.; Leite, V. J. S.; Montagner, Vinícius F.; Peres, Pedro L. D.) $\mathscr{H}_\infty$ guaranteed cost computation by means of parameter-dependent Lyapunov functions. (English summary)
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Ortega, Romeo Some applications and extensions of interconnection and damping assignment passivity-based control. (English summary) (*see* **2005b:93007**)
Østby, Ivar (*with* Winther, Ragnar) Stability of a model of human granulopoiesis using continuous maturation. (English summary) **2005f:92038**
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Park, Juhyun[1] Stability for a competitive Lotka-Volterra system with delays: LMI optimization approach. (English summary) **2005k:34300**
Park, PooGyeon (*with* Jeong, Seung Cheol) Constrained RHC for LPV systems with bounded rates of parameter variations. (English summary)
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Sadkane, Miloud Norm estimates of the Fourier series coefficients of the matrix resolvent. (English summary) **2005j:15031**
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Shi, Xiao Yan (*with* Gao, Zhi Wei) Stability analysis and controller design of fuzzy descriptor systems. (Chinese. English and Chinese summaries)
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Wei, Xin Jiang (*with* Jing, Yuan Wei) Fuzzy robust control of a class of uncertain time-delay systems and its stability analysis. (Chinese. English and Chinese summaries)
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Zang, Zi Long Connective set-stability of large discrete systems with respect to partial variables. (Chinese. English and Chinese summaries)
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— (*with* Chou, Jyh-Horng; Zheng, Liang-An) Stability robustness of linear output feedback systems with both time-varying structured and unstructured parameter uncertainties as well as delayed perturbations. (English summary) **2005h:93122**
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— (*with* Garulli, Andrea; Tesi, Alberto; Vicino, Antonio) An LMI-based technique for robust stability analysis of linear systems with polynomial parametric uncertainties. (English summary) **2005k:93158**
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— (*with* Wu, Min[2]; She, Jin-Hua; Liu, Guo-Ping) Robust stability for delay Lur′e control systems with multiple nonlinearities. (English summary) **2005i:93068**
— *see also* **Wu, Min[2] et al.**
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Li, Hai Yan[2] (*with* Gao, Cunchen) On the robust stability of interval coefficients nonlinear time-invariant large scale continuous control system with multi-group multi-delay. (English summary)
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Lin, Jong Lick *see* **Chen, Shin Ju, 2005b:93124**
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Liu, Derong (*with* Molchanov, A. P.) Criteria for robust absolute stability of time-varying nonlinear continuous-time systems. (English summary) **2005k:93164**
Liu, Guo-Ping *see* **He, Yong[3] et al., 2005i:93068** *and* **Wu, Min[2] et al.**
Liu, Xin Zhi (*with* Liao, Xiao Xin) Comparison method and robust stability of large-scale dynamic systems. (English summary) **2005c:93073**
Lizárraga, David A. Obstructions to the existence of universal stabilizers for smooth control systems. (English summary) **2005e:93112**
Lu, Bei *see* **Wu, Fen, 2005b:93129**
Maksimov, E. A. *see* **Kurdyukov, A. P., 2005k:93162**
Mao, Xuerong *see* **Yuan, Cheng Gui, 2005m:93118**
Matvīĭchuk, K. S. Technical stability of forced motion in time-dependent automatic

control systems with variable structure. (Russian. English and Ukrainian summaries) **2005m:93115**

— Asymptotic technical stability with respect to measure of the nonlinear controlled motion of an elastic flying system. (Russian. English and Ukrainian summaries)

Megretskiĭ, A. V. *see* **Kao, Chung-Yao et al., 2005m:93114**

Mehdi, Driss *see* **Bachelier, Olivier et al., 2005h:93121**

Michiels, Wim (*with* Mondié, Sabine; Roose, Dirk; Dambrine, Michel) The effect of approximating distributed delay control laws on stability. (English summary) **2005e:93113**

Molchanov, A. P. *see* **Liu, Derong, 2005k:93164**

Mondié, Sabine *see* **Michiels, Wim et al., 2005e:93113**

Moore, Kevin L. *see* **Chen, Yang Quan**

Nguyễn Hữu Du' (*with* Vu Hoang Linh) Implicit-system approach to the robust stability for a class of singularly perturbed linear systems. (English summary) **2005h:93124**

Niculescu, Silviu-Iulian *see* **Taoutaou, Damia et al., 2005e:93117** *and* **Ivănescu, Dan et al.**

Nie, Yi Yong (*with* Debeljkovic, D. Lj.) Non-Lyapunov stability of linear singular systems: a quite new approach in time domain. (English summary) **2005b:93128**

Oliveira, Ricardo C. L. F. (*with* Peres, Pedro L. D.) Stability of polytopes of matrices via affine parameter-dependent Lyapunov functions: asymptotically exact LMI conditions. (English summary) **2005m:93116**

Orlov, Yuri V. Finite time stability and robust control synthesis of uncertain switched systems. (English summary) **2005k:93165**

Ortiz-Moctezuma, Manuel Benjamin *see* **Kharitonov, Vladimir L. et al., 2005a:93127**

Park, Chang-Woo (*with* Kang, Hyung-Jin) Graphical and numerical approach to robust stability analysis of fuzzy modeled systems with parametric uncertainty and disturbance. (English summary)

Park, Juhyun[1] Novel robust stability criterion for a class of neutral systems with mixed delays and nonlinear perturbations. (English summary) **2005h:93125**

— *see also* **Kwon, O. M., 2005f:93126**

Peaucelle, Dimitri *see* **Henrion, Didier et al.**

Peng, Shou-Tao On a modification approach to a class of Lyapunov-based robust controllers subject to input constraint. (English summary) **2005c:93074**

Peres, Pedro L. D. *see* **Oliveira, Ricardo C. L. F., 2005m:93116**

Petersen, Ian R. *see* **Vũ Ngọc Phát et al., 2005f:93128**

Polyak, Boris Teodorovich Generalized superstability in control theory. (Russian. Russian summary) **2005j:93057**

Popchev, Ivan *see* **Savov, Svetoslav, 2005e:93116**

Pradin, Bernard *see* **Bachelier, Olivier et al., 2005h:93121**

Qu, Yuzhong *see* **Cao, Jin De et al., 2005f:93122**

Qu, Zhihua Global stabilization and convergence of nonlinear systems with uncertain exogenous dynamics. (English summary) **2005e:93114**

Rachik, Mostafa (*with* Lhous, M.; Tridane, A.) The admissible disturbance for discrete nonlinear perturbed controlled systems. (English summary) **2005d:93107**

Rodriguez, Salvador A. (*with* Dion, Jean-Michel; Dugard, Luc) Robust delay dependent stability analysis of neutral systems. (English summary) **2005h:93126**

— (*with* Kharitonov, Vladimir L.; Dion, Jean-Michel; Dugard, Luc) Robust stability of neutral systems: a Lyapunov-Krasovskii constructive approach. (English summary) **2005e:93115**

Roose, Dirk *see* **Michiels, Wim et al., 2005e:93113**

Safta, Carmen Anca *see* **Halanay, Andrei et al., 2005c:93069**

Savkin, A. V. *see* **Vũ Ngọc Phát et al., 2005f:93128**

Savov, Svetoslav (*with* Popchev, Ivan) On the stability analysis of uncertain systems via parameter dependent Lyapunov function. (English and Bulgarian summaries) **2005e:93116**

Shang, Yun *see* **Chen, Mao Yin et al., 2005b:93123**

She, Jin-Hua *see* **He, Yong**[3] **et al., 2005i:93068** *and* **Wu, Min**[2] **et al.**

Shi, Peng *see* **Guan, Xin Ping et al., 2005k:93159**

Shieh, Leang-San *see* **Wang, Hsun-Pang et al., 2005f:93129**

Skarpetis, M. G. *see* **Koumboulis, F. N. et al., 2005a:93128**

Smith, Malcolm C. *see* **James, M. R. et al., 2005m:93113**

Taoutaou, Damia (*with* Niculescu, Silviu-Iulian; Gu, Keqin) Robust stability of teleoperation schemes subject to constant and time-varying communication delays. (English summary) **2005e:93117**

Teel, Andrew R. *see* **Kellett, Christopher M., 2005c:93071** *and* **2005d:93105**

Tesi, Alberto *see* **Chesi, Graziano et al., 2005b:93126; 2005i:93067** *and* **2005k:93158**

Torres-Muñoz, Jorge Antonio *see* **Kharitonov, Vladimir L. et al., 2005a:93127**

Tridane, A. *see* **Rachik, Mostafa et al., 2005d:93107**

Trofino-Neto, Alexandre *see* **Coutinho, D. F. et al., 2005e:93110**

Truhar, Ninoslav An efficient algorithm for damper optimization for linear vibrating systems using Lyapunov equation. (English summary) **2005e:93118**

Tsai, Jason Sheng Hong *see* **Wang, Hsun-Pang et al., 2005f:93129**

Tu, Qing Wei (*with* Wang, Mian Sen) A new approach to finding stability robustness bounds for continuous perturbed systems. (Chinese. English and Chinese summaries)

Ugrinovskiĭ, V. A. Randomized algorithms for robust stability and guaranteed cost control of stochastic jump parameter systems with uncertain switching policies. (English summary) **2005k:93166**

Ursu, F. *see* **Halanay, Andrei et al., 2005c:93069**

Ursu, Ioan I. *see* **Halanay, Andrei et al., 2005c:93069**

Vadutov, O. S. (*with* Gaĭvoronskiĭ, S. A.) Application of edge routing to the stability analysis of interval polynomials. (Russian. Russian summary) **2005a:93129**

Van den Hof, Paul M. J. *see* **Douma, Sippe G. et al.**

Verriest, Erik I. *see* **Ivănescu, Dan et al.**

Vicino, Antonio *see* **Chesi, Graziano et al., 2005b:93126; 2005i:93067** *and* **2005k:93158**

Vinnicombe, Glenn *see* **James, M. R. et al., 2005m:93113**

Vu Hoang Linh *see* **Nguyễn Hữu Du', 2005h:93124**

Vũ Ngọc Phát (*with* Jiang, Jianming; Savkin, A. V.; Petersen, Ian R.) Robust stabilization of linear uncertain discrete-time systems via a limited capacity communication channel. (English summary) **2005f:93128**

Wang, Hsun-Pang (*with* Tsai, Jason Sheng Hong; Yi, Yong-Il; Shieh, Leang-San) Lifted digital redesign of prediction-based digital controller for hybrid chaotic system. (English summary) **2005f:93129**

Wang, Jun[3] *see* **Cao, Jin De, 2005a:93125** *and* **2005j:93056**

Wang, Long[1] *see* **Hao, Fei et al., 2005c:93070** *and* **Wang, Zhi Zhen et al.**

Wang, Mian Sen *see* **Tu, Qing Wei**

Wang, Qing-Guo *see* **He, Yong**[3] **et al., 2005m:93112**

Wang, Zai Hua (*with* Hu, Hai Yan; Küpper, Tassilo) Robust Hurwitz stability test for linear systems with uncertain commensurate time delays. (English summary) **2005c:93075**

Wang, Zhi Hua *see* **Gao, Li Xin**

Wang, Zhi Zhen (*with* Wang, Long[1]; Yu, Wen Sheng) Analysis on the robustness of two classes of uncertain systems with time delay. (Chinese. English and Chinese summaries)

Wu, Fen (*with* Lu, Bei) Anti-windup control design for exponentially unstable LTI systems with actuator saturation. (English summary) **2005b:93129**

Wu, Min[2] (*with* He, Yong[3]; She, Jin-Hua; Liu, Guo-Ping) Delay-dependent criteria for robust stability of time-varying delay systems. (English summary)

— *see also* **He, Yong**[3] **et al., 2005i:93068**

Xia, Yuan-Qing (*with* Han, Jing-Qing) Robust H_2 control with regional stability constraints. (English and Chinese summaries)

— Author's reply: "Comments and improvement on: 'Robust control of state delayed systems with polytopic type uncertainties via parameter-dependent Lyapunov functionals'" [Systems Control Lett. **53** (2004), no. 3-4, 321–323; MR2092523] by L. Yu.

— *see also* **Yu, Li**[1]

Xu, Jian-Xin *see* **Guan, Zhi Hong et al., 2005k:93160**

Xu, Sheng Yuan (*with* Lam, James; Zou, Yun) Further results on delay-dependent robust stability conditions of uncertain neutral systems. (English summary) **2005j:93058**

Yang, Xiaojing Some necessary conditions for Hurwitz stability. (English summary) **2005m:93117**

Yedavalli, Rama K. Necessary and sufficient vertex solutions for robust stability analysis of families of linear state space systems. (English summary) **2005b:93130**

Yi, Yong-Il *see* **Wang, Hsun-Pang et al., 2005f:93129**

Yu, Li[1] Comments and improvement on: "Robust control of state delayed systems with polytopic type uncertainties via parameter-dependent Lyapunov functionals" [Systems Control Lett. **50** (2003), no. 3, 183–193; MR2010811 (2004g:93118)] by Y. Xia and Y. Jia. (English summary)

— *see also* **Xia, Yuan-Qing**

Yu, Mei[3] *see* **Hao, Fei et al., 2005c:93070**

Yu, Wen Sheng *see* **Wang, Zhi Zhen et al.**

Yuan, Cheng Gui (*with* Mao, Xuerong) Robust stability and controllability of stochastic differential delay equations with Markovian switching. (English summary) **2005m:93118**

Yue, Dong (*with* Lam, James; Ho, Daniel W. C.) Delay-dependent robust exponential stability of uncertain descriptor systems with time-varying delays. (English summary) **2005f:93130**

— (*with* Han, Qing-Long) Delay-dependent exponential stability of stochastic systems with time-varying delay, nonlinearity, and Markovian switching. (English summary)

Zhabko, A. P. *see* **Kharitonov, Vladimir L., 2005k:93161**

Zheng, Liang-An *see* **Chen, Shinn-Horng et al., 2005h:93122**

Zheng, Wei Xing[1] *see* **He, Yong**[3] **et al., 2005m:93112**

Zhong, Qing-Chang Robust stability analysis of simple systems controlled over communication networks. (English summary)

Zhou, Kemin *see* **Chen, Xinjia et al., 2005c:93066**

Zong, Guang-Deng *see* **Chen, Mao Yin et al., 2005b:93123**

Zou, Yun *see* **Xu, Sheng Yuan et al., 2005j:93058**

Items with secondary classifications in 93D09

An, Senjian (*with* Liu, Wan Quan) Robust $\mathscr{D}$-stability with mixed-type uncertainties. (English summary) **2005d:93046**

Anazawa, Yoshihisa *see* **Xu, Li**[1] **et al., 2005b:93108**

Ancona, Fabio (*with* Bressan, Alberto) Stabilization by patchy feedbacks and robustness properties. (English summary) **2005c:93076**

— (*with* Bressan, Alberto) Stability rates for patchy vector fields. (English summary) **2005d:34016**

Angeli, David (*with* Mosca, Edoardo) Adaptive switching supervisory control of nonlinear systems with no prior knowledge of noise bounds. (English summary) **2005m:93092**

Arik, Sabri Global robust stability analysis of neural networks with discrete time delays. (English summary) **2005m:34173**

Arizmendi, C. M. *see* **Family, Fereydoon et al., (2005d:92001)**

Balakrishnan, V. Ragu *see* **Vandenberghe, Lieven et al., 2005m:90080**

Balandin, D. V. (*with* Kogan, M. M.; Fedyukov, A. A.) Optimal damping of oscillations of a pendulum under uncertain external and parametric perturbations. (Russian. Russian summary) **2005c:34070**

Barhen, Jacob *see* **Protopopescu, Vladimir A., 2005c:70034**

Batra, Prashant Bound for all coefficient diameters of real Schur-stable interval polynomials. (English summary) **2005e:30005**

Benlemkadem, A. *see* **Mesquine, Fouad et al., 2005e:93066**

Benzaouia, Abdellah *see* **Mesquine, Fouad et al., 2005e:93066**

Bise, Ryoma (*with* Takahashi, Norikazu; Nishi, Tetsuo) An improvement of the design method of cellular neural networks based on generalized eigenvalue minimization. (English summary) **2005d:94216**

Bliman, Pierre-Alexandre From Lyapunov-Krasovskii functionals for delay-independent stability to LMI conditions for μ-analysis. (English summary) **2005f:34207**

Bonnet, Catherine (*with* Partington, Jonathan R.) Robust stability analysis of various classes of delay systems. (English summary) **2005e:93140**

Bose, Tamal *see* **Radenkovic, Miloje, 2005c:93100**

Botez, Ruxandra *see* **Ibrir, Salim, 2005k:93201**

Boukas, E. K. Nonfragile robust controller for linear Markovian jumping parameter systems with multiplicative Brownian disturbance. (English summary) **2005d:93133**

(Braatz, R. D.) *see* **Heath, William P.**

Bressan, Alberto *see* **Ancona, Fabio, 2005c:93076** *and* **2005d:34016**

Budman, Hector M. *see* **Gao, Jianying, 2005f:93104**

Cabrera, Juan Luis (*with* Milton, John G.) Human stick balancing: tuning Lèvy flights to improve balance control. (English summary)
Calafiore, Giuseppe (*with* Dabbene, Fabrizio) Control design with hard/soft performance specifications: a Q-parameter randomization approach. (English summary) **2005b:93067**
Cao, Chang Xiu *see* **Yang, Zhi Ping[1]**
Cao, Liyu (*with* Schwartz, Howard M.) Complementary results on the stability bounds of singularly perturbed systems. (English summary) **2005f:93118**
Cârsteanu, Alin *see* **Clempner, Julio et al., 2005k:91013**
Castillo, Pedro *see* **Lozano Leal, Rogelio et al., (2005d:93003)**
Chen, Bing[2] (*with* Liu, Xiao Ping[2]) Reliable control design of fuzzy dynamic systems with time-varying delay. (English summary) **2005b:93090**
Chen, Hsin-Yuan 3D nonlinear H_2/H_1 guidance law. (English summary) **2005f:93046**
Chen, Jenq-Der Robust control for uncertain neutral systems with time-delays in state and control input via LMI and GAs. (English summary)
Chen, Jie[4] (*with* Niculescu, Silviu-Iulian) Robust stability conditions of quasipolynomials by frequency sweeping. (English summary) **2005h:93093**
Chen, Wu Hua (*with* Guan, Zhi Hong; Lu, Xiao Mei) Delay-dependent robust stabilization and H_∞-control of uncertain stochastic systems with time-varying delay. (English summary) **2005e:93044**
— (*with* Guan, Zhi Hong; Lu, Xiao Mei) Delay-dependent guaranteed cost control for uncertain discrete-time systems with both state and input delays. (English summary) **2005e:93122**
— (*with* Guan, Zhi Hong; Yu, Pei[1]) Delay-dependent stability and H_∞ control of uncertain discrete-time Markovian jump systems with mode-dependent time delays. (English summary) **2005b:93112**
— (*with* Guan, Zhi Hong; Lu, Xiao Mei) Delay-dependent exponential stability of uncertain stochastic systems with multiple delays: an LMI approach. (English summary) **2005k:93233**
Chen, Xinkai (*with* Zhai, Guisheng) Robust control for a class of dynamical systems with uncertainties. (English summary) **2005c:93041**
Chen, Yue Peng *see* **Zhai, Ding et al., 2005a:93143**
Chernetskaya, L. N. *see* **Martynyuk, A. A., 2005k:34298**
Chesi, Graziano Computing output feedback controllers to enlarge the domain of attraction in polynomial systems. (English summary) **2005h:93083**
(Chu, Jian) *see* **Yang, Guang-Hong, 2005j:93070**
Chung, Wan Kyun *see* **Kwon, S. J., 2005d:93002**
Clempner, Julio (*with* Medel, Jesus; Cârsteanu, Alin) Extending games with local and robust Lyapunov equilibrium and stability condition. (English summary) **2005k:91013**
(Cockburn, Juan C.) *see* **Hecker, Simon, 2005j:93038**
Cox, Steven J. (*with* Nakić, Ivica; Rittmann, Annette; Veselić, Krešimir) Lyapunov optimization of a damped system. (English summary) **2005f:93135**
Crück, Eva (*with* Seube, N.; Leitmann, George) Estimation of the attractor for an uncertain epidemic model. (English summary) **2005b:92052**
Dabbene, Fabrizio (*with* Gay, Paolo; Polyak, Boris Teodorovich) Recursive algorithms for inner ellipsoidal approximation of convex polytopes. (English summary)
— *see also* **Calafiore, Giuseppe, 2005b:93067**
Dijkstra, Tjeerd M. H. (*with* Katsumata, Hiromu; de Rugy, Aymar; Sternad, Dagmar) The dialogue between data and model: passive stability and relaxation behavior in a ball bouncing task. (English summary) **2005c:93054**
Drăgan, Vasile (*with* Morozan, Toader; Stoica, Adrian) Stability radii for a class of differential stochastic systems. (English summary) **2005e:93162**
Du, Haiping (*with* Lam, James; Sze, Kam Yim) Non-fragile H_∞ vibration control for uncertain structural systems. (English summary) **2005b:93054**
Duan, Zhi-Sheng (*with* Huang, Lin[1]; Wang, Long[1]; Wang, Jin-Zhi) Some applications of small gain theorem to interconnected systems. (English summary) **2005a:93007**
Dzhafarov, É. M. Robust sliding mode control of multivariable time-delay systems. (English summary) **2005b:93031**
Dzul, Alejandro *see* **Lozano Leal, Rogelio et al., (2005d:93003)**
El-Gohary, Awad I. Optimal stabilization of an equilibrium position of a rigid body using rotors system with friction forces. (English summary)
Family, Fereydoon (*with* Larrondo, Hilda A.; Arizmendi, C. M.) Basins of attraction and control of current in inertia ratchets. (English summary) (*see* **2005d:92001**)
Fang, Hua Jing *see* **Xie, Linbo et al., 2005f:93113**
Fedyukov, A. A. *see* **Balandin, D. V. et al., 2005c:34070**
Feng, Gang[1] H_∞ controller synthesis of piecewise discrete time linear systems. (English summary) **2005d:93052**
Forti, Mauro (*with* Tesi, Alberto) Absolute stability of analytic neural networks: an approach based on finite trajectory length. (English summary)
Fu, Rao *see* **Yang, Ying[1] et al., 2005h:93068**
Funahashi, Yasuyuki *see* **Ooba, Tatsushi, 2005g:93100**
Gao, Jianying (*with* Budman, Hector M.) Reducing conservatism in the design of a robust gain-scheduled controller for non-linear chemical processes. (English summary) **2005f:93104**
Garashchenko, F. G. (*with* Pīchkur, V. V.) Properties of optimal sets of external practical weak stability of differential inclusions. (Russian. English, Russian and Ukrainian summaries) **2005k:34044**
(Garulli, Andrea) *see* **Positive polynomials in control, 2005i:93005**
Gay, Paolo *see* **Dabbene, Fabrizio et al.**
Gil, Pedro Garcia *see* **Lozano Leal, Rogelio et al., (2005d:93003)**
Grebenikov, E. A. (*with* Prokopenya, A. N.) Determination of the boundaries between the domains of stability and instability for the Hill's equation. (English and Ukrainian summaries) **2005e:34077**
Grüne, Lars Robust asymptotic controllability under time-varying perturbations. (English summary) **2005f:93012**
Gu, Dan Ying *see* **Liu, Tao[2] et al.**
Gu, Hai Jun *see* **Yu, Jianjiang et al., 2005f:93102**
Gu, Xiao-Hui *see* **Li, Miao[2] et al., 2005e:34181**
Guan, Zhi Hong *see* **Chen, Wu Hua et al., 2005b:93112; 2005e:93044; 2005e:93122** *and* **2005k:93233**
Guo, Faming (*with* Yu, Wei; Huang, Fa-Lun) Robustness with respect to small delays for exponential stability of non-autonomous systems. (English summary) **2005a:34084**
Hansson, Anders *see* **Vandenberghe, Lieven et al., 2005m:90080**
He, Yong[3] *see* **Wu, Min[2] et al., 2005g:93107**
Heath, William P. (*with* Wills, Adrian G.) Design of a cross-directional controllers with optimal steady state performance. (English summary)
Hecker, Simon (*with* Varga, Andras) Generalized LFT-based representation of parametric uncertain models. (English summary) **2005j:93038**
(Henrion, Didier) *see* **Positive polynomials in control, 2005i:93005**
Huang, Biao *see* **Zhang, Li Qian[2], 2005c:93037**
Huang, Fa-Lun *see* **Guo, Faming et al., 2005a:34084** *and* **Li, Miao[2] et al., 2005e:34181**
Huang, Lin[1] *see* **Duan, Zhi-Sheng et al., 2005a:93007; Li, Xin Bin, 2005f:34136** *and* **Yang, Ying[1] et al., 2005h:93068**
Ibrir, Salim (*with* Botez, Ruxandra) Robust stabilization of uncertain aircraft active systems. (English summary) **2005k:93201**
Il'ichev, V. G. Evolution-stable parameters in a periodically changing environment. (Russian. Russian summary) **2005e:92029**
(Ingalls, Brian P.) *see* **Karafyllis, Iasson, 2005j:93073**
Ismail, Abdulla (*with* Mahmoud, Magdi S.) A descriptor approach to simultaneous $\mathscr{H}_2/\mathscr{H}_\infty$ control of jumping time-delay systems. (English summary) **2005a:93056**
— (*with* Mahmoud, Magdi S.) LMI approach to robust stability and $\mathscr{H}_\infty$ control of uncertain neutral jumping systems. (English summary) **2005a:93055**
— *see also* **Mahmoud, Magdi S., 2005d:93091**
Izzo, D. (*with* Valente, Chiara) A globally stable Lyapunov non linear controller for the attitude of a platform equipped with a system of actuating gyroscopes. (English summary) (*see* **2005c:00016**)
Jia, Yingmin (*with* Kokame, Hideki) Improved LMI representations for delay-independent and delay-dependent stability conditions. (English summary) **2005e:34233**
Jiang, Zhong-Ping Control of interconnected nonlinear systems: a small-gain viewpoint. (English summary) **2005f:93147**
Jin, Gang *see* **Zhao, Jun[2], 2005b:93139**
Jing, Xing-Jian (*with* Tan, Da-Long; Wang, Yue-Chao) An LMI approach to stability of systems with severe time-delay. (English summary) **2005b:93082**
Jing, Yuan Wei *see* **Wang, Fu Zhong et al.** *and* **Liu, Man et al.**
Karafyllis, Iasson The non-uniform in time small-gain theorem for a wide class of control systems with outputs. (English summary) **2005j:93073**
Katsumata, Hiromu *see* **Dijkstra, Tjeerd M. H. et al., 2005c:93054**
Kerrigan, Eric C. (*with* Maciejowski, Jan M.) Feedback min-max model predictive control using a single linear program: robust stability and the explicit solution. (English summary) **2005f:93070**
Kharitonov, Vladimir L. Complete type Lyapunov-Krasovskii functionals. (English summary) **2005g:34191**
— Lyapunov-Krasovskii functionals for scalar time delay equations. (English summary) **2005b:34158**
Kim, Ki Baek Disturbance attenuation for constrained discrete-time systems via receding horizon controls. (English summary) **2005a:93057**
Kogan, M. M. *see* **Balandin, D. V. et al., 2005c:34070**
Kokame, Hideki *see* **Jia, Yingmin, 2005e:34233**
Kowalczuk, Zdzisław (*with* Suchomski, Piotr) Robust continuous-time controller design via structural Youla-Kučera parameterization with application to predictive control. (English summary)
Kwon, O. M. *see* **Park, Juhyun[1], 2005h:93140**
Kwon, S. J. (*with* Chung, Wan Kyun) ★ Perturbation compensator based robust tracking control and state estimation of mechanical systems. **2005d:93002**
Lakshmikantham, V. (*with* Sivasundaram, S.) Asymptotic controllability in terms of two measures of hybrid dynamic systems. **2005d:93123**
Lam, James *see* **Du, Haiping et al., 2005b:93054** *and* **Xu, Sheng Yuan, 2005j:34103**
Larrondo, Hilda A. *see* **Family, Fereydoon et al., (2005d:92001)**
Lee, Chien-Hua Solution bounds of the continuous and discrete Lyapunov matrix equations. (English summary) **2005a:93036**
Leitmann, George *see* **Crück, Eva et al., 2005b:92052** *and* **Dynamical systems and control, 2005b:93006**
Li, Miao[2] (*with* Gu, Xiao-Hui; Huang, Fa-Lun) Robustness with respect to small time-varied delay for linear dynamical systems on Banach spaces. (English summary) **2005e:34181**
Li, Xin Bin (*with* Huang, Lin[1]) Lagrange stability analysis and synthesis for uncertain pendulum-like systems. (English summary) **2005f:34136**
Li, Yin Ya (*with* Sheng, An Dong; Wang, Yuan Gang) Robust control design for time-delay systems with parameter uncertainties using the PID controller. (Chinese. English and Chinese summaries)
Liao, Xiao Xin *see* **Liu, Bin[6] et al., 2005k:34025** *and* **Zhang, Yu Min et al.**
Lin, Yu-Ting *see* **Lo, Ji-Chang**
Lin, Zhiping *see* **Xu, Li[1] et al., 2005b:93108**
Liu, Bin[6] (*with* Liu, Xin Zhi; Liao, Xiao Xin) Robust global exponential stability of uncertain impulsive systems. (English summary) **2005k:34025**
Liu, Guo Yi *see* **Zhai, Ding et al., 2005a:93143**
Liu, Man (*with* Jing, Yuan Wei; Zhang, Si Ying) D-stable robust fault-tolerant control for delta operator systems. (Chinese. English and Chinese summaries)
Liu, Pin-Lin Delay-dependent asymptotic stabilization for uncertain time-delay systems with saturating actuators. (English summary) **2005k:93203**
Liu, Tao[2] (*with* Zhang, Wei Dong[1]; Gu, Dan Ying) Analytical design for a class of open-loop unstable cascade control systems. (Chinese. English and Chinese summaries)
Liu, Wan Quan *see* **An, Senjian, 2005d:93046**
Liu, Xiao Ping[2] *see* **Chen, Bing[2], 2005b:93090**
Liu, Xin Zhi *see* **Liu, Bin[6] et al., 2005k:34025**
Lo, Ji-Chang (*with* Lin, Yu-Ting) Robust control for uncertain fuzzy systems via circle criterion. (English summary)
Lozano Leal, Rogelio (*with* Gil, Pedro Garcia; Castillo, Pedro; Dzul, Alejandro) Robust prediction-based control for unstable delay systems. (English summary) (*see* **2005d:93003**)
Lu, Junwei *see* **Niu, Yugang et al., 2005d:93078**

Lu, Xiao Mei *see* **Chen, Wu Hua et al., 2005e:93044; 2005e:93122** *and* **2005k:93233**
Lum, Kai-Yew *see* **Yang, Guang-Hong, 2005j:93070**
Maciejowski, Jan M. *see* **Kerrigan, Eric C., 2005f:93070**
Mahmoud, Magdi S. (*with* Ismail, Abdulla) Passivity analysis and synthesis of discrete-time delay systems. (English summary) **2005d:93091**
— New results on linear parameter-varying time-delay systems. (English summary) **2005i:93079**
— *see also* **Ismail, Abdulla, 2005a:93055** *and* **2005a:93056**
Maĭlybaev, A. A. *see* **Seĭranyan, A. P., 2005d:70011**
Mammadov, Musa (*with* Orsi, Robert) H_∞ synthesis via a nonsmooth, nonconvex optimization approach. (English summary) **2005m:93049**
(Mao, Wei-Jie) *see* **Yang, Guang-Hong, 2005j:93070**
Martynyuk, A. A. (*with* Chernetskaya, L. N.) On the practical stability of motion under perturbations with delays. (Russian. English summary) **2005k:34298**
Masterkov, Yu. V. (*with* Rodina, L. I.) Sufficient and necessary conditions for the stable controllability of a nonlinear time-dependent system on the plane in the critical case. (Russian. Russian summary) **2005m:93015**
Matvĭchuk, K. S. Determination of conditions for the technical stability of the nonlinear states of a controlled elastic aircraft. (Russian. Russian and Armenian summaries)
— Technical stability with respect to measure of solutions of nonlinear differential equations that characterize the controlled vertical motion of an elastic body. (Russian. Russian summary) **2005j:74042**
Mazko, A. G. Stability of positive and monotone systems in a partially ordered space. (Russian. English and Ukrainian summaries) **2005h:34093**
Medel, Jesus *see* **Clempner, Julio et al., 2005k:91013**
Mesquine, Fouad (*with* Benlemkadem, A.; Benzaouia, Abdellah) Robust constrained regulator problem for linear uncertain systems. (English summary) **2005e:93066**
Milton, John G. *see* **Cabrera, Juan Luis**
Montagner, Vinícius F. (*with* Peres, Pedro L. D.) Robust stability and $\mathscr{H}_\infty$ performance of linear time-varying systems in polytopic domains. (English summary) **2005f:90055**
Morozan, Toader *see* **Drăgan, Vasile et al., 2005e:93162**
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Niculescu, Silviu-Iulian *see* **Chen, Jie[4], 2005h:93093**
Nishi, Tetsuo *see* **Bise, Ryoma et al., 2005d:94216**
Niu, Yugang (*with* Wang, Xing Yu; Lu, Junwei) Dissipative-based adaptive neural control for nonlinear systems. (English summary) **2005d:93078**
Oliveira, Ricardo C. L. F. (*with* Peres, Pedro L. D.) A simple and less conservative test for $\mathbb{D}$-stability. (English summary) **2005k:93154**
Omrane, Abdennebi *see* **Nakoulima, Ousseynou et al., 2005a:49051**
Ooba, Tatsushi (*with* Funahashi, Yasuyuki) Stability analysis of two-dimensional systems by means of finitely constructed bilateral quadratic forms. (English summary) **2005g:93100**
Orsi, Robert *see* **Mammadov, Musa, 2005m:93049**
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Parisini, Thomas *see* **Zhang, Xiaodong[3] et al., 2005b:93088**
Park, Juhyun[1] Delay-dependent guaranteed cost stabilization criterion for neutral delay-differential systems: matrix inequality approach. (English summary) **2005b:93083**
— Robust non-fragile guaranteed cost control of uncertain large-scale systems with time-delays in subsystem interconnections. (English summary) **2005b:93136**
— (*with* Kwon, O. M.) On robust stabilization for neutral delay-differential systems with parametric uncertainties and its application. (English summary) **2005h:93140**
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Pĭchkur, V. V. Practical stability of set-dynamical systems. (Ukrainian. English and Ukrainian summaries) **2005e:34150**
— *see also* **Garashchenko, F. G., 2005k:34044**
Polyak, Boris Teodorovich *see* **Dabbene, Fabrizio et al.**
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Prokopenya, A. N. *see* **Grebenikov, E. A., 2005e:34077**
Protopopescu, Vladimir A. (*with* Barhen, Jacob) Non-Lipschitzian control algorithms for extended mechanical systems. (English summary) **2005c:70034**
Radenkovic, Miloje (*with* Bose, Tamal) Global stability of adaptive IIR filters based on the output error method and parameter truncation. (English summary) **2005c:93100**
Rittmann, Annette *see* **Cox, Steven J. et al., 2005f:93135**
Rodina, L. I. *see* **Masterkov, Yu. V., 2005m:93015**
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Schwartz, Howard M. *see* **Cao, Liyu, 2005f:93118**
Seĭranyan, A. P. (*with* Maĭlybaev, A. A.) ★ Multiparameter stability theory with mechanical applications. **2005d:70011**
de la Sen, Manuel Sufficiency-type stability and stabilization criteria for linear time-invariant systems with constant point delays. (English summary) **2005e:34236**
— Adaptive control of time-varying systems with time-varying delays. (English summary) **2005f:93094**
Seube, N. *see* **Crück, Eva et al., 2005b:92052**
She, Jin-Hua *see* **Wu, Min[2] et al., 2005g:93107**
Shen, Tie Long (*with* Sun, Yuan Zhang; Ortega, Romeo) Editorial: Special issue on robust and nonlinear control of power systems.
Shen, Yi[2] *see* **Zhang, Yu Min et al.**
Sheng, An Dong *see* **Li, Yin Ya et al.**
Sivasundaram, S. *see* **Lakshmikantham, V., 2005d:93123**
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Suchomski, Piotr *see* **Kowalczuk, Zdzisław**
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Sun, Zhendong Stabilizability and insensitivity of switched linear systems. (English summary) **2005c:93058**
Sze, Kam Yim *see* **Du, Haiping et al., 2005b:93054**
Takahashi, Norikazu *see* **Bise, Ryoma et al., 2005d:94216**
Tan, Da-Long *see* **Jing, Xing-Jian et al., 2005b:93082**
Teel, Andrew R. Discrete time receding horizon optimal control: is the stability robust? (*see* **2005b:49001**)
Tesi, Alberto *see* **Forti, Mauro**
Tong, Shao Cheng (*with* Zhao, Dianpin) Fuzzy adaptive sliding mode output feedback control for nonlinear systems. (English summary) **2005d:93031**
Uang, Huey-Jian A robust fuzzy model following control design for nonlinear systems based on LMI approach. (English summary)
(Udwadia, Firdaus E.) *see* **Dynamical systems and control, 2005b:93006**
Valente, Chiara *see* **Izzo, D., (2005c:00016)**
(VanAntwerp, J. G.) *see* **Heath, William P.**
Vandenberghe, Lieven (*with* Balakrishnan, V. Ragu; Wallin, Ragnar; Hansson, Anders; Roh, Tae) Interior-point algorithms for semidefinite programming problems derived from the KYP lemma. (English summary) **2005m:90080**
Varga, Andras *see* **Hecker, Simon, 2005j:93038**
Velin, J. *see* **Nakoulima, Ousseynou et al., 2005a:49051**
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Wallin, Ragnar *see* **Vandenberghe, Lieven et al., 2005m:90080**
Wang, Fu Zhong (*with* Yao, Bo; Jing, Yuan Wei; Zhang, Si Ying) Reliable control with variance constraints for linear uncertain systems. (Chinese. English and Chinese summaries)
Wang, Jin-Zhi *see* **Duan, Zhi-Sheng et al., 2005a:93007**
Wang, Long[1] *see* **Duan, Zhi-Sheng et al., 2005a:93007**
Wang, Xing Yu *see* **Niu, Yugang et al., 2005d:93078**
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Wang, Yue-Chao *see* **Jing, Xing-Jian et al., 2005b:93082**
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Wirth, Fabian The generalized spectral radius is strictly increasing. (English summary) **2005m:15027**
Wu, Min[2] (*with* He, Yong[3]; She, Jin-Hua) Delay-dependent criteria for the robust stability of systems with time-varying delay. (English summary)
— (*with* He, Yong[3]; She, Jin-Hua) On absolute stability of Lur′e control systems with multiple non-linearities using linear matrix inequalities. (English summary) **2005g:93107**
Wu, Qing-Hua *see* **Xu, Li[1] et al., 2005b:93108**
Wu, Zhong Qiang The stable control of an uncertain T-S fuzzy system with input and state time delay. (Chinese. English and Chinese summaries)
Xie, Linbo (*with* Fang, Hua Jing; Zheng, Ying[3]) Guaranteed cost control for networked control systems. (English summary) **2005f:93113**
Xu, Bugong Stability criteria for linear systems with multiple time-varying delays. (English summary) **2005d:34166**
Xu, Li[1] (*with* Wu, Qing-Hua; Lin, Zhiping; Anazawa, Yoshihisa) A μ approach to robust stability analysis of nD discrete systems. (English summary) **2005b:93108**
Xu, Sheng Yuan (*with* Lam, James) Improved delay-dependent stability criteria for time-delay systems. (English summary) **2005j:34103**
Yang, Guang-Hong (*with* Lum, Kai-Yew) Comments on: "Quadratic stability and stabilization of dynamic interval systems" [IEEE Trans. Automat. Control **48** (2003), no. 6, 1007–1012; MR1986268 (2004d:93116)] by W.-J. Mao and J. Chu. (English summary) **2005j:93070**
Yang, Ying[1] (*with* Fu, Rao; Huang, Lin[1]) Robust analysis and synthesis for a class of uncertain nonlinear systems with multiple equilibria. (English summary) **2005h:93068**
Yang, Zhi Ping[1] (*with* Cao, Chang Xiu) Fuzzy control of nonlinear systems based on synthesis of a fuzzy sub-model. (Chinese. English and Chinese summaries)
Yao, Bo *see* **Wang, Fu Zhong et al.**
Yu, Jen-te A new static output feedback approach to the suboptimal mixed H_2/H_∞ problem. (English summary) **2005d:93056**
Yu, Jianjiang (*with* Zhang, Tian Ping[1]; Gu, Hai Jun) Robust adaptive fuzzy control for a class of perturbed pure-feedback nonlinear systems. (English summary) **2005f:93102**
Yu, Pei[1] *see* **Chen, Wu Hua et al., 2005b:93112**
Yu, Wei *see* **Guo, Faming et al., 2005a:34084**
Yu, Wen-Shyong H_∞ tracking-based adaptive fuzzy-neural control for MIMO uncertain robotic systems with time delays. (English summary) **2005b:93094**
Yuan, Zhong Hu *see* **Zhang, Guoshan**
Zhai, Ding (*with* Zhang, Qing Ling; Chen, Yue Peng; Liu, Guo Yi) Decentralized robust stabilization for an uncertain composite system with input saturation. (Chinese. English and Chinese summaries) **2005a:93143**
Zhai, Guisheng *see* **Chen, Xinkai, 2005c:93041**
Zhang, Chuan Yi New limit power function spaces. (English summary)
Zhang, Guoshan (*with* Yuan, Zhong Hu) Some new results on the reliable decomposition for linear plants. (English summary)
Zhang, Li Qian[2] (*with* Huang, Biao) Robust model predictive control of singular systems. (English summary) **2005c:93037**
Zhang, Qing Ling *see* **Zhai, Ding et al., 2005a:93143**
Zhang, Si Ying *see* **Wang, Fu Zhong et al.** *and* **Liu, Man et al.**
Zhang, Tian Ping[1] *see* **Yu, Jianjiang et al., 2005f:93102**
Zhang, Wei Dong[1] *see* **Liu, Tao[2] et al.**

Zhang, Wei Hai Robust H_∞ control of stochastic uncertain systems. (Chinese. English and Chinese summaries)
Zhang, Xiaodong[3] (*with* Parisini, Thomas; Polycarpou, Marios M.) Adaptive fault-tolerant control of nonlinear uncertain systems: an information-based diagnostic approach. (English summary) **2005b:93088**
Zhang, Yu Min (*with* Shen, Yi[2]; Liao, Xiao Xin) Robust stability of neutral stochastic interval systems. (English summary)
Zhao, Dianpin *see* **Tong, Shao Cheng**, **2005d:93031**
Zhao, Jun[2] (*with* Jin, Gang) Robust fault-tolerant control for a class of uncertain switched nonlinear systems. (Chinese. English and Chinese summaries) **2005b:93139**
Zheng, Ying[3] *see* **Xie, Linbo et al.**, **2005f:93113**

Items listed otherwise than by author

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Lecture Notes in Control and Information Sciences ★ Positive polynomials in control. **2005i:93005**
Positive polynomials in control ★ Positive polynomials in control. **2005i:93005**
Rio de Janeiro ★ Dynamical systems and control. **2005b:93006**

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Arcak, Murat (*with* Kokotović, Petar V.) Feasibility conditions for circle criterion designs. (English summary) **2005e:93119**
— (*with* Larsen, Michael M.; Kokotović, Petar V.) Circle and Popov criteria as tools for nonlinear feedback design. (English summary)
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Pinsky, Mark A.[2] *see* **Zevin, Aleksandr Aronovich**, **2005i:93070**
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Staffans, Olof J. *see* **Curtain, Ruth F. et al.**, **2005b:93131**
Zevin, Aleksandr Aronovich (*with* Pinsky, Mark A.[2]) A new approach to the Lur′e problem in the theory of absolute stability. (English summary) **2005i:93070**

Items with secondary classifications in 93D10

Benzaouia, Abdellah *see* **Mejhed, N. H. et al.**
Churilov, A. N. Local stabilization of a linear plant by a pulse signal. (English summary) **2005d:93094**
Gelig, A. Kh. (*with* Zuber, I. E.) Stabilization of pulse-modulated systems with nonstationary linear part. (English summary) **2005a:93087**
— *see also* **Yakubovich, V. A. et al.**, **2005i:93004**
Groen, M. *see* **Starosolski, Z. et al.**, **2005k:93156**
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Hmamed, A. *see* **Mejhed, N. H. et al.**
Jeltsema, Dimitri (*with* Ortega, Romeo; Scherpen, Jacquelien M. A.) An energy-balancing perspective of interconnection and damping assignment control of nonlinear systems. (English summary) **2005f:93139**
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She, Jin-Hua *see* **Wu, Min**[2] **et al.**, **2005g:93107**
Starosolski, Z. (*with* Polańska, J.; Groen, M.; Polański, Andrzej) Estimating regions of absolute stability with the use of piecewise linear Lyapunov functions. (English summary) **2005k:93156**
Ştefan, Radu State-space characterization of (J, J')-lossless systems. (English summary) **2005c:93024**
Wu, Min[2] (*with* He, Yong[3]; She, Jin-Hua) On absolute stability of Lur′e control systems with multiple non-linearities using linear matrix inequalities. (English summary) **2005g:93107**
Yakubovich, V. A. (*with* Leonov, G. A.; Gelig, A. Kh.) ★ Stability of stationary sets in control systems with discontinuous nonlinearities. **2005i:93004**
Yan, Zhen-Ya A new scheme to generalized (lag, anticipated, and complete) synchronization in chaotic and hyperchaotic systems. (English summary) **2005k:37072**
Zhang, Fa-ming Absolute stability for control systems with multiple time-varying delays. (English and Chinese summaries) **2005e:93082**
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Aamo, Ole Morten (*with* Krstić, Miroslav) Global stabilization of a nonlinear Ginzburg-Landau model of vortex shedding. (English summary) **2005m:93119**
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Andreĭchenko, D. K. (*with* Andreĭchenko, K. P.) On the theory of the stabilization of satellites with elastic rods. (Russian. Russian summary)
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Andrievskiĭ, B. R. (*with* Fradkov, A. L.) Control of chaos: methods and applications. II. Applications. (Russian. Russian summary) **2005g:93087**
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Berrahmoune, Larbi Pointwise stabilization of strings with non-linear feedback. (English summary) **2005g:93088**
Bey, Rabah (*with* Heminna, Amar; Lohéac, Jean-Pierre) Boundary stabilization of the linear elastodynamic system by a Lyapunov-type method. **2005f:93133**
Bi, Zhenfu (*with* Wang, Fusheng) Stabilization of multiple independent linear systems with control networks. (English summary)
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Bobtsov, A. A. Synthesis of a control law for the stabilization of a nonlinear system, based on measurements of the output. (Russian. Russian summary) **2005f:93134**
Boukas, E. K. (*with* Liu, Zi-Kuan) Delay-dependent stabilization of singularly perturbed jump linear systems. (English summary) **2005a:93130**
Bowong, Samuel (*with* Moukam Kakmeni, F. M.; Koina, Rodoumta) A new synchronization principle for a class of Lur′e systems with applications in secure communication. (English summary) **2005c:93078**
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Bressan, Alberto *see* **Ancona, Fabio**, **2005c:93076**
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— (*with* Celani, Fabio; Isidori, Alberto) Omega-limit sets of a class of nonlinear systems that are semiglobally practically stabilized. (English summary) **2005k:93170**
Cai, Xiu Shan *see* **Kou, Chun Hai et al.**
Cao, Jin De (*with* Li, Han-Xiong; Ho, Daniel W. C.) Synchronization criteria of Lur'e systems with time-delay feedback control. (English summary) **2005e:93121**
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Chen, Li[1] *see* **Chen, Shi Hua**[3] **et al.**, **2005d:93109**
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— (*with* Zhou, Dong Hua; Shang, Yun) A simple time-delayed method to control chaotic systems. (English summary) **2005h:93129**
Chen, Shi Hua[3] (*with* Wang, Dongxiao; Chen, Li[1]; Zhang, Qunjiao; Wang, Chang Ping[2]) Synchronizing strict-feedback chaotic system via a scalar driving signal. (English summary) **2005d:93109**
— *see also* **Wang, Feng et al.**, **2005h:93146** *and* **Feng, Jian Wen et al.**, **2005m:93123**
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Chen, Wu Hua (*with* Guan, Zhi Hong; Lu, Xiao Mei) Delay-dependent guaranteed cost

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Chen, Yue Peng *see* **Zhai, Ding et al., 2005a:93143**

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Chen, Zeng Qiang *see* **Qi, Guo Yuan et al.** *and* **Gao, Tie Gang et al.**

Chen, Zhen (*with* Yu, Pei[1]) Controlling and anti-controlling Hopf bifurcations in discrete maps using polynomial functions. (English summary)

Chen, Zhen-Guo (*with* Yan, Qing-Xu; Li, Zhaoqi) Boundary stabilization of nonuniform Timoshenko beam with rotor inertia at the tip. (English summary) **2005c:93079**

Cheng, Chao-Jung (*with* Liao, Teh-Lu; Hwang, Chi-Chuan) Exponential synchronization of a class of chaotic neural networks. (English summary)

Cheng, Dai Zhan (*with* Xi, Zairong; Feng, Gang[1]) Stabilization of general nonlinear control systems via center manifold and approximation techniques. (English summary) **2005b:93132**

— (*with* Guo, Lei[1]; Lin, Yuandan; Wang, Yuan[2]) Stabilization of switched linear systems. (English summary) **2005k:93172**

Chentouf, Boumediène Dynamic boundary controls of a rotating body-beam system with time-varying angular velocity. **2005h:93130**

Chipman, J. C. *see* **Lindsey, William A. et al.**

Chitour, Yacine *see* **Yakoubi, Karim, 2005k:93195**

Choe, Hyojeong (*with* Low, Steven H.) Stabilized Vegas. (*see* **2005g:93003**)

Choi, Jinhoon (*with* Kwon, Wook Hyun) Continuity and exponential stability of mixed constrained model predictive control. (English summary) **2005a:93131**

Christofides, Panagiotis D. *see* **El-Farra, Nael H. et al.**

Chu, Jian *see* **Yang, Guang-Hong, 2005j:93070** *and* **Xiang, Ji et al.**

Costa, Eduardo F. *see* **do Val, João B. R., 2005k:93193**

Costa, Oswaldo L. V. *see* **Fragoso, Marcelo D., 2005c:93080**

Costa, Ramon R. (*with* Hsu, Liu; Imai, Alvaro K.; Kokotović, Petar V.) Lyapunov-based adaptive control of MIMO systems. (English summary)

Cox, Steven J. (*with* Nakić, Ivica; Rittmann, Annette; Veselić, Krešimir) Lyapunov optimization of a damped system. (English summary) **2005f:93135**

Crauel, Hans (*with* Matsikis, Iakovos; Townley, Stuart) Noise assisted high-gain stabilization: almost surely or in second mean. (English summary) **2005a:93132**

Curtis, J. Willard (*with* Beard, Randal W.) A complete parameterization of clf-based input-to-state stabilizing control laws. (English summary) **2005e:93123**

Czornik, Adam (*with* Świerniak, Andrzej) On the continuous time-varying JLQ problem. (English summary) **2005h:93131**

Daafouz, Jamal *see* **Fotsin, Hilaire et al.**

Dai, Dan (*with* Wang, Jing Cheng) Anti-windup compensation design using linear matrix inequality (LMI)-based dynamic feedback. (Chinese. English and Chinese summaries)

Danaher, S. *see* **Tingey, D. et al.**

Dariĭchuk, I. V. *see* **Yasins'kiĭ, V. K. et al., 2005k:93190b**

De Leenheer, Patrick (*with* Aeyels, Dirk) Stabilization of positive systems with first integrals. (English summary) **2005k:93173**

Deng, Fei Qi *see* **Luo, Yi Ping et al.**

De Persis, Claudio (*with* Isidori, Alberto) Stabilizability by state feedback implies stabilizability by encoded state feedback. (English summary) **2005e:93124**

— *n*-bit stabilization of *n*-dimensional nonlinear systems in feedforward form. (English summary) **2005m:93121**

Deshmukh, Venkatesh (*with* Sinha, S. C.) Control of dynamic systems with time-periodic coefficients via the Lyapunov-Floquet transformation and backstepping technique. (English summary) **2005f:93136**

Di Gennaro, S. Output attitude tracking for flexible spacecraft. (English summary)

Dimitrova, Neli (*with* Krastanov, Mikhail I.) Asymptotic stabilization of a biotechnological process with substrate inhibition. (English and Bulgarian summaries) (*see* **2005f:00011**)

Dong, Wenjie On trajectory and force tracking control of constrained mobile manipulators with parameter uncertainty. (English summary)

— (*with* Guo, Yi) Global time-varying stabilization of underactuated surface vessel. (English summary) **2005k:93174**

Dong, Xu Hua (*with* Zhou, Sheng Fan) Asymptotic synchronization in lattices of coupled non-identical Lorenz equations. (Chinese. English and Chinese summaries) **2005m:93122**

Dunn, Alex C. *see* **Tsai, Jason Sheng Hong et al., 2005i:93072**

Dzul, Alejandro *see* **Lozano Leal, Rogelio et al., (2005d:93003)**

Egeland, Olav *see* **Shiryaev, A. S. et al., 2005m:93132**

Eissa, M. (*with* Amer, Y. A.) Vibration control of a cantilever beam subject to both external and parametric excitation. (English summary) **2005a:93133**

Elaiw, A. M. Stabilization of sampled-data nonlinear systems by an *l*-step receding horizon control based on their approximate discrete-time models. (English summary) **2005h:93132**

— Receding horizon control method applied to antiviral treatment of AIDS. (English summary) **2005d:93110**

El-Farra, Nael H. (*with* Mhaskar, Prashant; Christofides, Panagiotis D.) Uniting bounded control and MPC for stabilization of constrained linear systems. (English summary)

Elia, Nicola Remote stabilization over fading channels. (English summary) **2005j:93062**

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— (*with* Zampieri, Sandro) Quantized stabilization of linear systems: complexity versus performance. (English summary) **2005e:93125**

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Feng, Gang[1] *see* **Cheng, Dai Zhan et al., 2005b:93132**

Feng, Jian Wen (*with* Chen, Shi Hua[3]; Wang, Chang Ping[2]) Adaptive synchronization of uncertain hyperchaotic systems based on parameter identification. (English summary) **2005m:93123**

Fernandez-Anaya, Guillermo (*with* Torres-Muñoz, Jorge Antonio) Preservation of stability and stabilization by substitutions in SISO discrete-time systems. (English summary) **2005j:93063**

Ferreira, Cristina (*with* Silva, Fernando Conceição) On the stabilization of linear discrete-time systems. (English summary) **2005d:93111**

Fossas i Colet, Enric *see* **Navarro-López, Eva M.**

Fotsin, Hilaire (*with* Woafo, P.) Adaptive synchronization of a modified and uncertain chaotic van der Pol-Duffing oscillator based on parameter identification. (English summary)

— (*with* Bowong, Samuel; Daafouz, Jamal) Adaptive synchronization of two chaotic systems consisting of modified Van der Pol-Duffing and Chua oscillators. (English summary)

Fradkov, A. L. *see* **Andrievskiĭ, B. R., 2005g:93087**

Fragoso, Marcelo D. (*with* Costa, Oswaldo L. V.) Mean square stabilizability of continuous-time linear systems with partial information on the Markovian jumping parameters. (English summary) **2005c:93080**

— *see also* **Czornik, Adam, 2005h:93131**

Francis, Bruce A. *see* **Ishii, Hideaki**

Francisco, R. *see* **Mazenc, Frédéric et al., 2005c:93082**

Fu, Yusun (*with* Tian, Zuohua; Shi, Song Jiao) Output feedback stabilization for a class of stochastic time-delay nonlinear systems. (English summary) **2005m:93124**

Fuh, Chyun-Chau (*with* Tsai, Hsun-Heng; Tung, Pi-Cheng) Stabilizing unstable periodic orbits via universal input-output delayed-feedback control. (English summary)

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Fujimoto, Kenji (*with* Sakurama, Kazunori; Sugie, Toshiharu) Trajectory tracking control of port-controlled Hamiltonian systems via generalized canonical transformations. (English summary) **2005k:93176**

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Gabasov, R. (*with* Kirillova, F. M.; Ruzhitskaya, E. A.) Feedback design for systems that perform prescribed motions. (Russian. Russian summary) **2005d:93112**

Galaz, Martha *see* **Ortega, Romeo et al., 2005h:93139**

Gao, Huijun (*with* Lam, James; Xu, Sheng Yuan; Wang, Chang Hong[1]) Stability and stabilization of uncertain 2-D discrete systems with stochastic perturbation. (English summary) **2005j:93064**

Gao, Li Qun (*with* Jing, Li) Asymptotical stabilization of switched linear systems via periodic switching sequences. (Chinese. English and Chinese summaries)

Gao, Shi Chen (*with* Wan, Li[2]; Yan, Qing-Xu) A note on nonlinear boundary stabilization of nonuniform Euler-Bernoulli beam. (English and Chinese summaries) **2005j:93065**

Gao, Tie Gang (*with* Chen, Zeng Qiang; Yuan, Zhu Zhi) Control of chaotic systems based on partial variables feedback. (Chinese. English and Chinese summaries)

García-Canseco, Eloísa *see* **Ortega, Romeo, 2005k:93187**

Ge, Shuzhi Sam (*with* Wang, Zhuping; Lee, Tong Heng) Adaptive stabilization of uncertain nonholonomic systems by state and output feedback. (English summary)

Ge, Zheng Ming (*with* Chen, Yen-Sheng) Adaptive synchronization of unidirectional and mutual coupled chaotic systems. (English summary)

Gelig, A. Kh. (*with* Kabrits, M. S.) Stabilization of nonlinear pulse systems. (English summary) **2005g:93091**

— (*with* Zuber, I. E.) Stabilization of time-dependent impulsive systems. (Russian. Russian summary) **2005f:93137**

Gil, Pedro García *see* **Lozano Leal, Rogelio et al., (2005d:93003)**

Gilbert, Elmer (*with* Kolmanovsky, Ilya) Nonlinear tracking control in the presence of state and control constraints: a generalized reference governor. (English summary)

Goebel, Rafal Stabilizing a linear system with saturation through optimal control. (English summary) **2005k:93177**

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Gordillo, Francisco *see* **Aracil, Javier et al., 2005k:93167**

Grüne, Lars (*with* Junge, Oliver) A set oriented approach to optimal feedback stabilization. (English summary) **2005g:93092**

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Guan, Zhi Hong *see* **Chen, Wu Hua et al., 2005e:93122**

Guerra, Thierry Marie (*with* Vermeiren, Laurent) LMI-based relaxed nonquadratic stabilization conditions for nonlinear systems in the Takagi-Sugeno's form. (English summary)

Guo, Lei[1] *see* **Cheng, Dai Zhan et al., 2005k:93172**

Guo, Yi *see* **Dong, Wenjie, 2005k:93174**

(Hagen, Gregory) *see* **Aamo, Ole Morten, 2005m:93119**

Halanay, Andrei (*with* Safta, Carmen Anca) Stabilization of some nonlinear controlled electrohydraulic servosystems. (English summary)

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Han, X. (*with* Lu, Jun An; Wu, Xiao Qun) Adaptive feedback synchronization of Lü system. (English summary) **2005a:93134**

Han, Zheng Zhi *see* **Kou, Chun Hai et al.**

He, Han Lin[2] (*with* Liao, Xiao Xin; Zhang, Xiang Ming) Sufficient conditions for strong simultaneous stabilization of scalar feedback systems. (Chinese. English and Chinese summaries)

Heminna, Amar *see* **Bey, Rabah et al., 2005f:93133**

Hensen, R. H. A. (*with* van de Molengraft, M. J. G.; Steinbuch, Maarten) Friction induced hunting limit cycles: a comparison between the LuGre and switch friction model. (English summary)

Hespanha, João P. (*with* Liberzon, Daniel; Morse, A. Stephen) Supervision of integral-input-to-state stabilizing controllers. (English summary)

— (*with* Morse, A. Stephen) Switching between stabilizing controllers. (English summary)

— *see also* **Liberzon, Daniel, 2005m:93126**

Ho, Daniel W. C. *see* **Cao, Jin De et al., 2005e:93121** *and* **Liu, Xiao Ping[2], 2005e:93129**

Hsu, Liu *see* **Costa, Ramon R. et al.**

Hu, Hai Yan Using delayed state feedback to stabilize periodic motions of an oscillator. (English summary) **2005e:93126**

Hu, Ting Shu (*with* Lin, Zongli) Output regulation of linear systems with bounded continuous feedback. (English summary) **2005j:93066**

Huang, Fa-Lun *see* **Liu, Yan[4] et al., 2005h:93138**

Huang, Wei Hong[1] On the stabilization of internally coupled map lattice systems. **2005f:93138**

Huang, Xiaohua *see* **Wu, Xiaofeng et al.**

Hwang, Chi-Chuan *see* **Cheng, Chao-Jung et al.**

Ilchmann, Achim (*with* Sangwin, C. J.) Output feedback stabilisation of minimum phase systems by delays. (English summary) **2005d:93113**

— (*with* Ryan, Eugene P.; Trenn, Stephan) Tracking control: performance funnels and prescribed transient behaviour. (English summary) **2005k:93179**

Imai, Alvaro K. *see* **Costa, Ramon R. et al.**

Inman, Daniel J. *see* **Lopes, Vicente, Jr. et al., (2005b:93006)**

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— (*with* Francis, Bruce A.) Quadratic stabilization of sampled-data systems with quantization. (English summary)

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— (*with* Ortega, Romeo; Scherpen, Jacquelien M. A.) An energy-balancing perspective of interconnection and damping assignment control of nonlinear systems. (English summary)

Jerbi, H. Asymptotic stabilizability of three-dimensional homogeneous polynomial systems of degree three. (English summary) **2005g:93093**

Jian, Ji Gui *see* **Luo, Hai Geng et al.**

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Jiang, Zhong-Ping Comments on: "A remark on partial-state feedback stabilization of cascade systems using small gain theorem" [IEEE Trans. Automat. Control **48** (2003), no. 3, 497–500; MR1962260 (2004a:93074)] by W. Lin and Q. Gong. (English summary)

— *see also* **Praly, Laurent, 2005h:93141** *and* **Khac Duc Do et al.**

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Kabrits, M. S. *see* **Gelig, A. Kh., 2005g:93091**

Kaliora, Georgia (*with* Astolfi, Alessandro) On the stabilization of feedforward systems with bounded control. (English summary) **2005h:93133**

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Kawamoto, Atsushi (*with* Katayama, Tohru) The semi-stabilizing solution of generalized algebraic Riccati equation for descriptor systems. (English summary)

Khac Duc Do (*with* Jiang, Zhong-Ping; Pan, Jie[1]; Nijmeijer, Henk) A global output-feedback controller for stabilization and tracking of underactuated ODIN: a spherical underwater vehicle. (English summary)

Khalil, Hassan K. Performance recovery under output feedback sampled-data stabilization of a class of nonlinear systems. (English summary) **2005h:93134**

Kim, Euntai *see* **Kim, Jae-Hun et al.**

Kim, Jae-Hun (*with* Park, Chang-Woo; Kim, Euntai; Park, Mignon) Adaptive synchronization of T-S fuzzy chaotic systems with unknown parameters. (English summary)

Kim, Ki Baek Design of receding horizon controls for constrained time-varying systems. (English summary)

Kirillova, F. M. *see* **Gabasov, R. et al., 2005d:93112**

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Kolmanovsky, Ilya *see* **Gilbert, Elmer**

Konishi, Keiji Estimation of an attraction region in one-dimensional delayed-feedback control systems. (English summary)

Kotel'nikova, A. N. A problem of game stochastic stabilization of a controlled object. (English summary) **2005h:93135**

Kou, Chun Hai (*with* Cai, Xiu Shan; Han, Zheng Zhi) Feedback stabilization of discrete-time nonlinear systems by using the control Lyapunov functions. (Chinese. English and Chinese summaries)

Krastanov, Mikhail I. (*with* Vel'ov, Vladimir M.) On the stabilizability of control constrained linear systems. (English summary) **2005a:93136**

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Krstić, Miroslav *see* **Balogh, Andras, 2005e:93120** *and* **Aamo, Ole Morten, 2005m:93119**

Kruglov, V. V. (*with* Uskov, A. A.) A sufficient condition for the stability of closed-loop control systems with fuzzy logic controllers. (Russian. Russian summary)

Kwek, Keng Huat *see* **Lin, Chong et al., 2005a:93137**

Kwon, O. M. *see* **Park, Juhyun[1], 2005h:93140** *and* **2005m:93129**

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Lagoa, Constantino M. A convex parametrization of risk-adjusted stabilizing controllers. (English summary)

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Lambadarie, Dan Local stabilization for affine and bilinear control systems. (English summary) **2005d:93114**

Larin, Vladimir B. (*with* Al-Lawama, A.; Tuník, A. A.) Exogenous disturbance compensation with static output feedback. (English summary) **2005j:93067**

— Stabilization of a system of output feedback. (Russian. English, Russian and Ukrainian summaries) **2005h:93136**

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Lauko, I. G. *see* **Armstrong-Hélouvry, Brian et al., 2005k:93168**

Lee, Charles H. (*with* Tran, Hien T.) Reduced-order-based feedback control of the Kuramoto-Sivashinsky equation. (English summary) **2005e:93128**

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Lee, Suk G. *see* **Park, Juhyun[1] et al., 2005f:93141**

Lee, Ti-Chung Exponential stabilization for nonlinear systems with applications to nonholonomic systems. (English summary)

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Leonard, Naomi Ehrich *see* **Woolsey, C. A.**

Leonov, G. A. (*with* Shumafov, M. M.) Elementary proof of stabilization theorem for linear controllable systems. (English summary)

Li, Chuandong (*with* Liao, Xiaofeng) Lag synchronization of Rossler system and Chua circuit via a scalar signal. (English summary) **2005g:93094**

— *see also* **Zhang, Xiao Hong[4] et al.**

Li, Chun Guang *see* **Zhang, Hongbin[1] et al., 2005b:93138**

Li, Han-Xiong *see* **Cao, Jin De et al., 2005e:93121**

Li, Ji *see* **Qian, Chunjiang, 2005m:93131**

Li, Shihua (*with* Lin, Xiang Ze; Tian, Yu Ping[1]) Set stabilization of Chua's circuit via piece-wise linear feedbacks. (English summary) **2005m:93125**

— (*with* Tian, Yu Ping[1]) Set stabilization of a modified Chua's circuit. (English summary)

— *see also* **Tian, Yu Ping[1]**

Li, Shu Gang *see* **Wang, Geng Sheng, 2005e:93137**

Li, Tie Min *see* **Wu, Jun et al.**

Li, Zhaoqi *see* **Chen, Zhen-Guo et al., 2005c:93079**

Li, Zhengguo (*with* Wen, Changyun; Soh, Yeng Chai) Observer-based stabilization of switching linear systems. (English summary)

Liang, Jinsong (*with* Chen, Yang Quan; Fullmer, Rees) Boundary stabilization and disturbance rejection for time fractional order diffusion-wave equations. (English summary)

Liao, Teh-Lu *see* **Cheng, Chao-Jung et al.** *and* **Lin, Jui-Sheng et al.**

Liao, Xiao Xin *see* **He, Han Lin[2] et al.** *and* **Luo, Hai Geng et al.**

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Liberzon, Daniel Hybrid feedback stabilization of systems with quantized signals. (English summary) **2005k:93181**

— (*with* Hespanha, João P.) Stabilization of nonlinear systems with limited information feedback. (English summary) **2005m:93126**

— *see also* **Hespanha, João P. et al.**

Lin, Chang Jun State feedback controls of linear delay systems. (Chinese. English and Chinese summaries)

Lin, Chong (*with* Wang, Qing-Guo; Lee, Tong Heng; Loh, Ai Poh; Kwek, Keng Huat) Stability criteria and bounds for limit cycles of relay feedback systems. (English summary) **2005a:93137**

Lin, Chun-Liang *see* **Liu, Van-Tsai et al., 2005c:93081**

Lin, Jui-Sheng (*with* Liao, Teh-Lu; Yan, Jun-Juh; Yau, Her-Terng) Synchronization of unidirectional coupled chaotic systems with unknown channel time-delay: adaptive robust observer-based approach. (English summary)

Lin, Jun Y. *see* **Tsai, Jason Sheng Hong et al., 2005i:93072**

(Lin, Wei[2]) *see* **Jiang, Zhong-Ping**

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Lin, Yuandan *see* **Cheng, Dai Zhan et al., 2005k:93172**

Lin, Zongli *see* **Hu, Ting Shu, 2005j:93066**

Lin-Chen, Y. Y. (*with* Goodall, D. P.) Stabilizing feedbacks for imperfectly known, singularly perturbed nonlinear systems with discrete and distributed delays. (English summary) **2005h:93137**

Lindsey, William A. (*with* Spagnuolo, Anna Maria; Chipman, J. C.; Shillor, Meir) Numerical simulations of vehicle platform stabilization. (English summary)

Litsyn, Elena (*with* Myasnikova, Marina; Nepomnyashchikh, Yurii V.; Ponosov, A. V.) Efficient criteria for the stabilization of planar linear systems by hybrid feedback controls. **2005a:93138**

— (*with* Nepomnyashchikh, Yurii V.; Ponosov, A. V.) Hybrid feedback stabilization of quasilinear systems in the plane. (English summary) **2005k:93182**

Liu, Guo Rong *see* **Luo, Yi Ping et al.**

Liu, Guo Yi *see* **Zhai, Ding et al., 2005a:93143**

Liu, Kang Sheng (*with* Rao, Bopeng) Stabilité exponentielle des équations des ondes avec amortissement local de Kelvin-Voigt. (English and French summaries) [Exponential stability for wave equations with local Kelvin-Voigt damping] **2005g:93095**

Liu, Pai-Chuan *see* **Sheu, Tsung-Sheng et al., 2005h:93144**

Liu, Van-Tsai (*with* Lin, Chun-Liang; Lee, Gean-Pao) Neural-network-based identification and control of a thin plate using piezoelectric actuators and sensors. (English summary) **2005c:93081**

Liu, Wenyuan (*with* Xiao, Jinghua; Yang, Junzhong) Synchronization in coupled chaotic oscillators with a no-flux boundary condition. (English summary) **2005k:93183**

Liu, Xiao Ping[2] (*with* Ho, Daniel W. C.) Stabilization of non-linear differential-algebraic equation systems. (English summary) **2005e:93129**

Liu, Xiaohui *see* **Wang, Zi Dong[1] et al., 2005k:93194**

Liu, Yan[4] (*with* Jiang, Wei-sheng; Huang, Fa-Lun) On the stabilization of elastic plates with dynamical boundary control. (English summary) **2005h:93138**

Liu, Zi-Kuan *see* **Boukas, E. K., 2005a:93130**

Loh, Ai Poh *see* **Lin, Chong et al., 2005a:93137**

Lohéac, Jean-Pierre *see* **Bey, Rabah et al., 2005f:93133**

Lopes, Vicente, Jr. (*with* Steffen, Valder, Jr.; Inman, Daniel J.) Optimal placement of

piezoelectric sensor/actuators for smart structures vibration control. (English summary) (*see* **2005b:93006**)
Low, Steven H. *see* **Choe, Hyojeong**, (**2005g:93003**)
Lozano Leal, Rogelio (*with* Gil, Pedro Garcia; Castillo, Pedro; Dzul, Alejandro) Robust prediction-based control for unstable delay systems. (English summary) (*see* **2005d:93003**)
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Lum, Kai-Yew *see* **Yang, Guang-Hong**, **2005j:93070**
Luo, Hai Geng (*with* Jian, Ji Gui; Liao, Xiao Xin) Stabilization of unstable equilibrium points in a new chaotic system. (Chinese. English and Chinese summaries)
Luo, Yi Ping (*with* Deng, Fei Qi; Liu, Guo Rong) LMI-based approach for stabilization of distributed parameter control systems with delay. (Chinese. English and Chinese summaries)
Malisoff, Michael (*with* Sontag, Eduardo D.) Asymptotic controllability and input-to-state stabilization: the effect of actuator errors. (English summary) **2005g:93096**
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— (*with* Zhao, Yi[1]; Zhou, Sheng) Lag synchronization of chaotic Lur′e systems via replacing variables control. (English summary) **2005m:93133**

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Xu, Zhen Lin (*with* Wang, Jia Jun[1]; Meng, Ming; Wang, Hao) Stabilization of an uncertain nonholonomic control system based on backstepping. (Chinese. English and Chinese summaries)

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— *see also* **Chen, Zhen-Guo et al., 2005c:93079** *and* **Gao, Shi Chen et al., 2005j:93065**

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Zhang, Wei Dong[1] (*with* Xu, Xiao Ming) On minimal-order stabilization of minimum phase plants. (English summary)
Zhang, Wei Hai (*with* Chen, Bor-Sen) On stabilizability and exact observability of stochastic systems with their applications. (English summary) **2005m:93134**
Zhang, Xiang Ming *see* **He, Han Lin[2] et al.**
Zhang, Xiao Hong[4] (*with* Liao, Xiaofeng; Li, Chuandong) Impulsive control, complete and lag synchronization of unified chaotic system with continuous periodic switch. (English summary)
Zhang, Xiao Yu *see* **Xiang, Ji et al.**
Zhang, Yinping (*with* Sun, Ji-tao) Delay-dependent stability criteria for coupled chaotic systems via unidirectional linear error feedback approach. (English summary) **2005a:93144**
— (*with* Sun, Ji-tao) Controlling chaotic Lu systems using impulsive control. (English summary)
— *see also* **Sun, Ji-tao, 2005c:93086**
Zhao, Jun[2] (*with* Spong, Mark W.) Hybrid control for global stabilization of the cart-pendulum system. (English summary)
— (*with* Jin, Gang) Robust fault-tolerant control for a class of uncertain switched nonlinear systems. (Chinese. English and Chinese summaries) **2005b:93139**
Zhao, Yi[1] *see* **Wu, Xiaofeng et al., 2005m:93133**
Zheng, Yu Fan *see* **Wang, Zhi Ming[3] et al.**
Zhou, Dong Hua *see* **Chen, Mao Yin et al., 2005h:93129** *and* **2005j:93061**
Zhou, Shangbo (*with* Liao, Xiaofeng; Wu, Zhongfu; Wong, Kwok-Wo) Hopf bifurcation in a control system for the washout filter-based delayed neural equation. (English summary) **2005h:93147**
Zhou, Sheng *see* **Wu, Xiaofeng et al., 2005m:93133**
Zhou, Sheng Fan *see* **Dong, Xu Hua, 2005m:93122**
Zhou, Tianshou (*with* Chen, Guanrong; Yang, Qi Gui) A simple time-delay feedback anticontrol method made rigorous. (English summary) **2005d:93121**
Zou, Hui-chao *see* **Yan, Qing-Xu et al., 2005c:93089**
Zou, Yun *see* **Wang, Weiqun, 2005a:93142**
Zuber, I. E. Solution of the stabilization problem for a class of nonlinear systems with retarded argument. (Russian. English and Russian summaries) **2005c:93090**
— Synthesis of canonical similarity transformations for nonlinear time-dependent dynamical control systems. (Russian. English and Russian summaries) **2005d:93122**
— Synthesis of a stabilizing output control for a class of nonlinear systems with retarded argument. (Russian. English and Russian summaries) **2005e:93138**
— *see also* **Gelig, A. Kh., 2005f:93137**
Zubov, Vladimir Ivanovich[2] On the control contour method. (Russian) **2005h:93148**
Zuo, Zhiqiang Semi-global stabilization and output regulation for discrete-time singular systems with actuator saturation. (English summary)

Items with secondary classifications in 93D15

Abdel-Rohman, Mohamed (*with* Spencer, Billie F.) Control of wind-induced nonlinear oscillations in suspended cables. (English summary)
Abed, Eyad H. *see* **Nayfeh, Mahir A.**
Agiza, Hamdy N. *see* **Elabbasy, Elmetwally M. et al., 2005d:34096**
Aguilar Ibañez, Carlos (*with* Gutiérrez Frias, O.; Suárez Castañón, M.) Lyapunov-based controller for the inverted pendulum cart system. (English summary)
Aguirre, B. (*with* Ibarra-Valdez, Carlos; Suárez, Rodolfo) Sufficient algebraic conditions for stability of cones of polynomials. (English summary) **2005a:93119**
Ait Rami, M. *see* **Benzaouia, Abdellah et al., 2005c:93039**
Akhtar, Suhail (*with* Venugopal, Ravinder; Bernstein, Dennis S.) Logarithmic Lyapunov functions for direct adaptive stabilization with normalized adaptive laws. (English summary) **2005f:93144**
Alabau-Boussouira, Fatiha Convexity and weighted integral inequalities for energy decay rates of nonlinear dissipative hyperbolic systems. (English summary) **2005h:34149**
Albu, Felix *see* **Bouchard, Martin**
Aloui, L. Stabilisation Neumann pour l'équation des ondes dans un domaine extérieur. (English and French summaries) [Neumann stabilization for the wave equation in an exterior domain] **2005b:35163**
Alvarez-Ramírez, J. (*with* Cervantes, Ilse; Femat, Ricardo) An equilibrium point stabilization strategy for the Chen system. (English summary) **2005c:94092**
Ancona, Fabio (*with* Bressan, Alberto) Stability rates for patchy vector fields. (English summary) **2005d:34016**
d'Andréa-Novel, B. *see* **de Halleux, Jonathan et al., 2005k:93106**
Andrievskiĭ, B. R. (*with* Fradkov, A. L.) Control of chaos: methods and applications. I. Methods. (Russian. Russian summary) **2005d:37062**
Angeli, David *see* **De Leenheer, Patrick et al., 2005m:34087**
Annaswamy, Anuradha M. Active-adaptive control of acoustic resonances in flows. (English summary) (*see* **2005d:93003**)
Antonelli, R. (*with* Astolfi, Alessandro) Continuous stirred tank reactors: easy to stabilise? (English summary)
Antsaklis, Panos J. *see* **Montestruque, Luis A.**
Aouf, Nabil (*with* Paiva, Henrique Mohallem; Rabbath, C. A.; Lauzon, Marc) Model following control approach for missile autopilot design. (English summary) **2005a:93113**
Aravena, Jorge L. *see* **Chen, Xinjia et al., 2005c:93066**
Arcak, Murat (*with* Kokotović, Petar V.) Feasibility conditions for circle criterion designs. (English summary) **2005e:93119**
— *see also* **Praly, Laurent, 2005d:93024**
Arnold, Ludwig (*with* Chueshov, Igor D.; Ochs, Gunter) Random dynamical systems methods in ship stability: a case study. (English summary) **2005k:34216**
Arrowsmith, D. K. *see* **Gutiérrez, Eugenio**
Astolfi, Alessandro *see* **Lovera, Marco, 2005f:93071**; **Kaliora, Georgia, 2005h:93151**; **Rodríguez, Hugo et al., (2005b:93007)** *and* **Antonelli, R.**
Atmanspacher, Harald (*with* Scheingraber, Herbert) Inherent global stabilization of unstable local behavior in coupled map lattices. (English summary)
Balandin, D. V. (*with* Kogan, M. M.) Optimal damping of the vibrations of high-rise structures under seismic actions. (Russian. Russian summary)
— (*with* Kogan, M. M.) Synthesis of controllers on the basis of the solution of linear matrix inequalities and an algorithm for finding mutually inverse matrices. (Russian. Russian summary) **2005k:93076**
Bamieh, Bassam *see* **Hagen, Gregory et al., 2005c:93044**
Bao, Jundong *see* **Luo, Qi et al., 2005j:35123**
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Başar, Tamer *see* **Ishii, Hideaki, 2005f:93112**
Bastin, Georges *see* **de Halleux, Jonathan et al., 2005k:93106** *and* **Grognard, Frédéric et al.**
Bătineţu-Giurgiu, Maria Non-homogeneous linear feedback for optimal stabilization by boundary control of the heat equation. (English summary) **2005e:93074**
Batra, Prashant On small circles containing zeros and ones of analytic functions. (English summary) **2005h:30010**
Battilotti, Stefano Stochastic stabilization of nonlinear systems in feedforward form with noisy outputs. (English summary) **2005g:93119**
Bazanella, Alexandre S. (*with* Conceição, C. L.) Transient stability improvement through excitation control. (English summary)
Benzaouia, Abdellah (*with* Ait Rami, M.; El Faiz, S.) Stabilization of linear systems with saturation: a Sylvester equation approach. (English summary) **2005c:93039**
Berdyshev, Yu. I. On the problem of the sequential traversing of a set of smooth manifolds by a nonlinear controlled object. (Russian. Russian summary) **2005b:49050**
Bernstein, Dennis S. *see* **Akhtar, Suhail et al., 2005f:93144**
Bian, Guo-Xing *see* **Zhu, Kai-En et al., 2005b:37059**
Blajer, Wojciech (*with* Kołodziejczyk, Krzysztof) A geometric approach to solving problems of control constraints: theory and a DAE framework. (English summary) **2005g:70049**
Blanchini, Franco (*with* Giannattasio, Pietro) Adaptive control of compressor surge instability. (English summary)
Boĭkov, I. V. On the stability of Hopfield neural networks. (Russian. Russian summary) **2005h:34129**
Bolouri, Hamid *see* **Orrell, David**
Bondarko, V. A. (*with* Fradkov, A. L.) Necessary and sufficient conditions for passivability of linear distributed systems. (Russian. Russian summary) **2005i:93077**
Bouchard, Martin (*with* Albu, Felix) The Gauss-Seidel fast affine projection algorithm for multichannel active noise control and sound reproduction systems. (English summary)
Boukas, E. K. Nonfragile controller design for linear Markovian jumping parameters systems. (English summary) **2005d:93097**
Bowong, Samuel *see* **Moukam Kakmeni, F. M. et al., 2005f:37065** *and* **Mazenc, Frédéric, 2005i:93044**
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Budhraja, M. *see* **Saha, L. M. et al.**
Cai, Kai-Yuan *see* **Wu, Huai-Ning, 2005f:93101**
Cai, Yan Rong *see* **Liu, Fen Lin et al.**
Campos-Delgado, Daniel U. (*with* Zhou, Kemin) A parametric optimization approach to H_∞ and H_2 strong stabilization. (English summary)
Cao, Deng Qing (*with* Ge, Yumei; Yang, Y. R.) Stability criteria for nonclassically damped systems with nonlinear uncertainties. (English summary) **2005f:93145**
Cavalcanti, Marcelo Moreira (*with* Portillo Oquendo, Higidio) Frictional versus viscoelastic damping in a semilinear wave equation. (English summary) **2005d:35257**
— (*with* Domingos Cavalcanti, Valéria N.; Soriano, Juan A.; Souza, Joel S.) Homogenization and uniform stabilization for a nonlinear hyperbolic equation in domains with holes of small capacity. (English summary) **2005a:35200**
Čelikovský, Sergej Observer form of the hyperbolic-type generalized Lorenz system and its use for chaos synchronization. (English summary) **2005i:93017**
Cervantes, Ilse *see* **Alvarez-Ramírez, J. et al., 2005c:94092**
Chai, Shu Gen (*with* Guo, Yuxia) Boundary stabilization of wave equations with variable coefficients and memory. (English summary) **2005e:93075**
Chandre, C. *see* **Vittot, Michel et al., 2005g:37121**
Chang, Yuan-Chang (*with* Chen, Song-Shyong; Su, Shun-Feng; Lee, Tsu-Tian) Static output feedback stabilization for nonlinear interval time-delay systems via fuzzy control approach. (English summary) **2005f:93097**
Chellaboina, Vijaya-Sekhar *see* **Haddad, Wassim M. et al., 2005g:93006**
Chen, Ben M. *see* **He, Ying Jie[1] et al., 2005k:93099**
Chen, Chung Cheng (*with* Chien, T. L.; Wei, C. L.) Application of feedback linearization to tracking and almost disturbance decoupling control of the AMIRA ball and beam system. (English summary) **2005g:93026**
Chen, Guanrong (*with* Zhou, Jin[1]; Liu, Zeng Rong) Global synchronization of coupled delayed neural networks and applications to chaotic CNN models. (English summary) **2005h:34208**

— *see also* **Yu, Pei[1], 2005b:37108** *and* **Yang, Ruoting et al.**
Chen, Hsien-Keng Synchronization of two different chaotic systems: a new system and each of the dynamical systems Lorenz, Chen and Lü. (English summary)
Chen, Jian[1] *see* **Xian, Bin et al., 2005b:93076**
Chen, Lan Sun *see* **Liu, Bing[3] et al., 2005d:34019**
Chen, Shi Hua[3] (*with* Zhang, Qin; Wang, Chang Ping[2]) Existence and stability of equilibria of the continuous-time Hopfield neural network. (English summary) **2005i:37103**
Chen, Shinn-Horng (*with* Chou, Jyh-Horng) Robust stability analysis for discrete-time LQG system under finite wordlength effects, noise uncertainties and time-varying structured parameter perturbations. (English summary) **2005c:93065**
Chen, Song-Shyong *see* **Chang, Yuan-Chang et al., 2005f:93097**
Chen, Tian-Lun *see* **Zhu, Kai-En et al., 2005b:37059**
Chen, Tong Wen *see* **Xu, Sheng Yuan, 2005k:93235**
Chen, Xi[4] (*with* Zhou, Xun Yu) Stochastic linear-quadratic control with conic control constraints on an infinite time horizon. (English summary) **2005k:49099**
Chen, Xinjia (*with* Zhou, Kemin; Aravena, Jorge L.) Fast construction of robustness degradation function. (English summary) **2005c:93066**
Chen, Zeng Qiang *see* **Wang, Xin Hua[1] et al.**
Chen, Zhen-Guo *see* **Yan, Qing-Xu et al.**
Chen, Zhiyong (*with* Huang, Jie[1]) A general formulation and solvability of the global robust output regulation problem. (English summary) **2005k:93200**
Cherid, Ali Output feedback dynamic controller for retarded systems. (English summary) **2005k:93092**
Chien, T. L. *see* **Chen, Chung Cheng et al., 2005g:93026**
Choi, Ji-Yun (*with* Hong, Keum-Shik; Yang, Kyung-Jinn) Exponential stabilization of an axially moving tensioned strip by passive damping and boundary control. (English summary) **2005c:74056**
Choi, Young-Sik *see* **Kim, A. V. et al., 2005k:49101**
Chou, Jyh-Horng *see* **Chen, Shinn-Horng, 2005c:93065**
Christofides, Panagiotis D. *see* **Orlov, Yuri V. et al., 2005e:93028**
Chueshov, Igor D. *see* **Arnold, Ludwig et al., 2005k:34216**
Ciraolo, Guido *see* **Vittot, Michel et al., 2005g:37121**
Clarke, Francis H. (*with* Ledyaev, Yu. S.; Stern, Ronald Jay) Proximal analysis and feedback construction. (English summary) **2005a:93073**
— Lyapunov functions and feedback in nonlinear control. (English summary) **2005j:93034**
Coller, B. D. Intriguing nonlinear dynamics of a controller with a sluggish actuator. (English summary) **2005k:93098**
Conceição, C. L. *see* **Bazanella, Alexandre S.**
Corduneanu, Constantin (*with* Mahdavi, Mehran) A class of second order functional differential equations of neutral type. (English summary) **2005d:34176**
Cornejo-Pérez, Octavio (*with* Femat, Ricardo) Unidirectional synchronization of Hodgkin-Huxley neurons. (English summary) **2005k:34289**
Coron, Jean-Michel *see* **de Halleux, Jonathan et al., 2005k:93106**
Cuccagna, Scipio Erratum: "Stabilization of solutions to nonlinear Schrödinger equations" [Comm. Pure Appl. Math. **54** (2001), no. 9, 1110–1145; MR1835384 (2002g:35193)]. **2005g:35266**
Dadfarnia, Mohsen (*with* Jalili, Nader; Xian, Bin; Dawson, Darren M.) Lyapunov-based vibration control of translational Euler-Bernoulli beams using the stabilizing effect of beam damping mechanisms. (English summary) **2005a:74043**
Dambrine, Michel *see* **Michiels, Wim et al., 2005e:93113**
Daniels, M. *see* **Repperger, D. W. et al.**
Dawson, Darren M. *see* **Dadfarnia, Mohsen et al., 2005a:74043** *and* **Xian, Bin et al., 2005b:93076**
De Leenheer, Patrick (*with* Angeli, David; Sontag, Eduardo D.) On predator-prey systems and small-gain theorems. (English summary) **2005m:34087**
Demenkov, M. N. *see* **Goman, M. G., 2005f:93124**
Deng, Fei Qi *see* **Luo, Qi et al., 2005j:35123**
De Nicolao, Giuseppe *see* **Magni, Lalo et al., 2005g:93106**
Devanathan, Rajagopalan Necessary and sufficient conditions for quadratic linearization of a linearly controllable system. (English summary) **2005e:93031**
Domingos Cavalcanti, Valéria N. *see* **Cavalcanti, Marcelo Moreira et al., 2005a:35200**
Duan, Zhi-Sheng (*with* Wang, Jin-Zhi; Huang, Lin[1]) Multi-input and multi-output nonlinear systems: interconnected Chua's circuits. (English summary) **2005f:34130**
Edwards, Christopher *see* **Lai, Nai One et al., 2005b:93151**
Elabbasy, Elmetwally M. (*with* Agiza, Hamdy N.; El-Dessoky, Mohamed M.) Controlling and synchronization of Rossler system with uncertain parameters. (English summary) **2005d:34096**
— (*with* Agiza, Hamdy N.; El-Dessoky, Mohamed M.) Synchronization of modified Chen system. (English summary)
Elbeyli, O. (*with* Sun, Jian-Qiao; Ünal, Gazanfer) A semi-discretization method for delayed stochastic systems. (English summary) **2005e:93163**
El-Dessoky, Mohamed M. *see* **Elabbasy, Elmetwally M. et al., 2005d:34096**
El Faiz, S. *see* **Benzaouia, Abdellah et al., 2005c:93039**
El-Gohary, Awad I. Optimal stabilization of an equilibrium position of a rigid body using rotors system with friction forces. (English summary)
Elia, Nicola When Bode meets Shannon: control-oriented feedback communication schemes. (English summary) **2005d:90019**
Engelberg, Shlomo Comments on: "Periodic orbits from Δ-modulation of stable linear systems" [IEEE Trans. Automat. Control **49** (2004), no. 8, 1376–1380; MR2078250 (2005b:93107)] by X. Xia and A. S. I. Zinober. (English summary) **2005m:93088**
Engelborghs, Koen *see* **Michiels, Wim et al., 2005k:93110**
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Evans, Robin J. *see* **Nair, Girish N. et al., 2005e:94050**
Fan, Chun Xia (*with* Jiang, Chang Sheng) Backstepping-based synchronization control for unified chaotic systems. (Chinese. English and Chinese summaries)
Femat, Ricardo *see* **Alvarez-Ramírez, J. et al., 2005c:94092** *and* **Cornejo-Pérez, Octavio, 2005k:34289**
Feng, De Xing *see* **Yan, Qing-Xu et al.**
Feng, En Min *see* **Luo, Cheng-Xin, 2005b:93164**
Floquet, Thierry (*with* Barbot, Jean-Pierre; Perruquetti, Wilfrid) Higher-order sliding mode stabilization for a class of nonholonomic perturbed systems. (English summary)
Fomina, Yu. S. *see* **Loskutov, A. Yu. et al., 2005g:37071**
Fradkov, A. L. *see* **Andrievskiĭ, B. R., 2005d:37062** *and* **Bondarko, V. A., 2005i:93077**
Freeman, Randy A. *see* **Ito, Hiroshi[1], 2005f:93067**
Freire Macías, Emilio *see* **Muñoz-Almaraz, F. J. et al., (2005b:93007)**
French, M. (*with* Szepesvári, Cs.; Rogers, Eric) LQ performance bounds for adaptive output feedback controllers for functionally uncertain nonlinear systems. (English summary) **2005k:93118**
Fu, Yuli *see* **Luo, Qi et al., 2005j:35123**
Gaĭshun, I. V. Controllability and stabilization of discrete systems in a function space on a finite commutative group with values in a commutative ring. (Russian. Russian summary) **2005e:93089**
Galán-Vioque, J. *see* **Muñoz-Almaraz, F. J. et al., (2005b:93007)**
Gałkowski, K. *see* **Lam, James et al., 2005f:93149**
Gao, Jin Feng (*with* Liang, Zhan Hong) A general scalar chaotic signal synchronization system and its controller via backstepping design. (Chinese. English and Chinese summaries)
Ge, Shuzhi Sam (*with* Zhang, Jin[5]; Lee, Tong Heng) Adaptive MNN control for a class of non-affine NARMAX systems with disturbances. (English summary) **2005d:93087**
Ge, Yumei *see* **Cao, Deng Qing et al., 2005f:93145**
Ge, Zheng Ming (*with* Lee, Jui-Kai) Chaos synchronization and parameter identification for gyroscope system. (English summary) **2005j:70007**
Gentili, Luca (*with* Marconi, Lorenzo) Robust nonlinear disturbance suppression of a magnetic levitation system. (English summary)
Giannattasio, Pietro *see* **Blanchini, Franco**
Glizer, Valery Y. On stabilization of nonstandard singularly perturbed systems with small delays in state and control. (English summary) **2005c:93060**
Goman, M. G. (*with* Demenkov, M. N.) Stabilization of unstable aircraft dynamics under control constraints. (English summary) **2005f:93124**
Gorshkov, A. V. Stabilization of a semilinear parabolic equation defined in the exterior of a bounded domain by means of a boundary control. (Russian. Russian summary) **2005a:93083**
Grobbelaar-Van Dalsen, Marié Dynamic boundary stabilization of a Reissner-Mindlin plate with Timoshenko beam. (English summary) **2005h:49070**
Grognard, Frédéric (*with* Sepulchre, Rodolphe; Bastin, Georges) Improving the performance of low-gain designs for bounded control of linear systems. (English summary)
Grüne, Lars (*with* Nešić, Dragan) Optimization-based stabilization of sampled-data nonlinear systems via their approximate discrete-time models. (English summary) **2005b:93109**
Gu, En-Guo (*with* Ruan, Jiong; Lin, Wei[4]) Algorithm for estimation of the stable basin in controlling chaotic discrete dynamics. (English summary) **2005e:37065**
Guan, Xin Ping (*with* Wu, Jing[3]; Long, Cheng Nian) Resilient controller design for a class of large-scale delay systems: adaptive approach. (Chinese. English and Chinese summaries)
Guardabassi, Guido O. Robust absolute stability of a class of s.i.s.o. control systems. (English summary) **2005b:93127**
Guay, Martin (*with* Zhang, Tao[1]) Adaptive extremum seeking control of nonlinear dynamic systems with parametric uncertainties. (English summary)
Guo, Bao Zhu (*with* Xie, Yu[1]) Basis property and stabilization of a translating tensioned beam through a pointwise control force. (English summary) **2005d:74023**
— (*with* Xie, Yu[1]) A sufficient condition on Riesz basis with parentheses of non-self-adjoint operator and application to a serially connected string system under joint feedbacks. (English summary) **2005i:93050**
— *see also* **Zhang, Q., 2005e:93078**
Guo, Rong Wei[2] (*with* Huang, De Bin; Zhang, Li Zhen[2]) Chaotic synchronization based on Lie derivative method. (English summary) **2005m:37072**
Guo, Yuxia *see* **Chai, Shu Gen, 2005e:93075**
Gutiérrez, Eugenio (*with* Arrowsmith, D. K.) Control of a double impacting mechanical oscillator using displacement feedback. (English summary)
Gutiérrez Frias, O. *see* **Aguilar Ibañez, Carlos et al.**
Haddad, Wassim M. (*with* Chellaboina, Vijaya-Sekhar; Nersesov, Sergey G.) Vector dissipativity theory and stability of feedback interconnections for large-scale non-linear dynamical systems. (English summary) **2005g:93006**
Haeri, Mohammad (*with* Zadehmorshed Beik, H.) Analysis of the convergence and closed loop stability in EDMC. (English summary)
Hagen, Gregory (*with* Mezić, Igor; Bamieh, Bassam) Distributed control design for parabolic evolution equations: application to compressor stall control. (English summary) **2005c:93044**
de Halleux, Jonathan (*with* Prieur, Christophe[2]; Coron, Jean-Michel; d'Andréa-Novel, B.; Bastin, Georges) Boundary feedback control in networks of open channels. (English summary) **2005k:93106**
Hatanaka, T. (*with* Takaba, K.) Reference management using state observers. (English summary) **2005m:93058**
He, Ying Jie[1] (*with* Chen, Ben M.; Wu, Chao) Composite nonlinear control with state and measurement feedback for general multivariable systems with input saturation. (English summary) **2005k:93099**
Hong, Keum-Shik *see* **Yang, Kyung-Jinn et al., 2005b:93087** *and* **Choi, Ji-Yun et al., 2005c:74056**
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Hosseini, Mohamed *see* **Udwadia, Firdaus E. et al., 2005b:93075**
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Huang, De Bin *see* **Guo, Rong Wei[2] et al., 2005m:37072**
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Huang, Jie[1] *see* **Lan, Weiyao, 2005a:93051** *and* **Chen, Zhiyong, 2005k:93200**
Huang, Li Min Partial stability and its applications in system stabilization. (Chinese. English and Chinese summaries)
Huang, Lin[1] *see* **Duan, Zhi-Sheng et al., 2005f:34130**

Huang, Wei (*with* Zhang, Hua Guang) Synchronized impulsive control of a class of chaotic systems. (Chinese. English and Chinese summaries)
Ibarra-Valdez, Carlos *see* **Aguirre, B. et al., 2005a:93119**
Ibrir, Salim Linear time-derivative trackers. (English summary) **2005m:93089**
Ikeda, Masao (*with* Zhai, Guisheng; Uezato, Eiho) Centralized design of decentralized controllers for interconnected descriptor systems. (English summary) **2005h:93002**
Indri, Marina Experimental control of a simple robot subject to impacts. (English summary) (*see* **2005b:93007**)
Ishii, Hideaki (*with* Başar, Tamer) Remote control of LTI systems over networks with state quantization. (English summary) **2005f:93112**
Isidori, Alberto *see* **Marconi, Lorenzo et al., 2005h:93025**
Ismail, Abdulla (*with* Mahmoud, Magdi S.; Shi, Peng) Output feedback stabilization and disturbance attenuation of time-delay systems with Markovian jump parameters. (English summary) **2005g:93120**
Ito, Hiroshi[1] (*with* Freeman, Randy A.) Uniting local and global controllers for uncertain nonlinear systems: beyond global inverse optimality. (English summary) **2005f:93067**
Jalili, Nader *see* **Dadfarnia, Mohsen et al., 2005a:74043**
Ji, Ce (*with* Zhang, Hua Guang; Wang, Zhan Shan) Global stability of a class of generalized Hopfield neural networks with time delay. (Chinese. English and Chinese summaries)
Ji, Guo Jun (*with* Zhou, Yan[3]) Stability of a class of semilinear systems. (Chinese. English and Chinese summaries)
Jiang, Chang Sheng *see* **Fan, Chun Xia**
Jiang, Wei-sheng (*with* Liu, Yan[4]; Huang, Fa-Lun) Exponential stabilization of elastic plates with damping and dynamical boundary conditions. (English and Chinese summaries)
Jiang, Zhong-Ping Decentralized disturbance attenuating output-feedback trackers for large-scale nonlinear systems. (English summary)
— Control of interconnected nonlinear systems: a small-gain viewpoint. (English summary) **2005f:93147**
Jin, Chao Yong (*with* Zhang, Xiang Wei) On decentralized stabilization of linear large scale systems with symmetric circulant structure. (Chinese. English and Chinese summaries) **2005m:93069**
Jing, Hai Ying (*with* Yang, Zhaoyu) The impact of state feedback control on a predator-prey model with functional response. (English summary) **2005h:93085**
Jing, Yuan Wei *see* **Wang, Qiang De et al.**
Jing, Zhongliang Neural network-based state fusion and adaptive tracking for maneuvering targets. (English summary)
Kabakova, E. V. (*with* Myshkov, S. K.) Stabilization of singular perturbated control systems with incomplete information. (English summary) **2005g:93076**
Kalenova, V. I. (*with* Morozov, V. M.; Salmina, M. A.) On the stability and stabilization of the steady motions of nonholonomic mechanical systems of a certain class. (Russian. Russian summary) **2005j:70031**
Kaliora, Georgia (*with* Astolfi, Alessandro) Nonlinear control of feedfoward systems with bounded signals. (English summary) **2005h:93151**
Kang, Li Shan *see* **Lu, Jun An et al., 2005a:37055**
Kappos, Efthimios A geometric approach to linear and nonlinear achievable dynamics. (English summary) **2005e:93034**
Kaptouom, E. *see* **Moukam Kakmeni, F. M. et al., 2005f:37065**
Kellett, Christopher M. (*with* Teel, Andrew R.) Weak converse Lyapunov theorems and control-Lyapunov functions. (English summary) **2005e:34026**
Khadra, Anmar (*with* Liu, Xin Zhi; Shen, Xuemin) Impulsive control and synchronization of spatiotemporal chaos. (English summary)
Kim, A. V. (*with* Volkanin, L. S.; Choi, Young-Sik) Generalized Riccati equations in linear-quadratic control problems. (English summary) **2005k:49101**
Kirichenko, N. F. (*with* Matvienko, V. T.) Algorithms for the asymptotic, terminal, and adaptive stabilization of the rotational motions of a rigid body. (Russian. English, Russian and Ukrainian summaries) **2005g:70050**
Kirillov, Oleg N. (*with* Seĭranyan, A. P.) Stabilization and destabilization of a circulatory system by small velocity-dependent forces. (English summary)
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Kothare, Mayuresh V. *see* **Wan, Zhaoyang, 2005b:93106**
Kotta, Ülle *see* **Wang, Jihong et al.**
Kozyakin, V. S. A short introduction to asynchronous systems. (English summary) **2005e:93003**
Krishchenko, A. P. (*with* Panfilov, D. Yu.; Tkachev, S. B.) Construction of minimal-phase affine systems. (Russian. Russian summary) **2005f:49061**
Krstić, Miroslav Feedback linearizability and explicit integrator forwarding controllers for classes of feedforward systems. (English summary) **2005e:93072**
— *see also* **Smyshlyaev, Andrey, 2005h:93078**
Krut'ko, P. D. Algorithms for intensive energy damping in problems of the control of oscillations. (Russian. Russian summary) **2005a:93120**
Kubo, Tomohiro Exponential stability assignment of neutral delay-differential systems by a class of linear-quadratic regulators. (English summary) **2005d:49054**
Kumar, Ravi *see* **Udwadia, Firdaus E. et al., 2005b:93075**
Lai, Nai One (*with* Edwards, Christopher; Spurgeon, Sarah K.) On discrete time output feedback min-max controllers. (English summary) **2005b:93151**
Lam, James (*with* Xu, Sheng Yuan; Zou, Yun; Lin, Zhiping; Gałkowski, K.) Robust output feedback stabilization for two-dimensional continuous systems in Roesser form. (English summary) **2005f:93149**
— *see also* **Yue, Dong, 2005b:93070** *and* **Xu, Sheng Yuan, 2005f:93174**
Lan, Weiyao (*with* Huang, Jie[1]) On the discrete-time robust nonlinear servomechanism problem. (English summary) **2005a:93051**
Lasiecka, Irena (*with* Triggiani, Roberto; Zhang, Xu[1]) Global uniqueness, observability and stabilization of nonconservative Schrödinger equations via pointwise Carleman estimates. I. $H^1(\Omega)$-estimates. (English summary) **2005a:93084**
— (*with* Triggiani, Roberto; Zhang, Xu[1]) Global uniqueness, observability and stabilization of nonconservative Schrödinger equations via pointwise Carleman estimates. II. $L_2(\Omega)$-estimates. (English summary) **2005g:35274**
Lauzon, Marc *see* **Aouf, Nabil et al., 2005a:93113**
Ławryńczuk, Maciej (*with* Tatjewski, Piotr) An infinite horizon predictive control algorithm based on multivariable input-output models. (English summary) **2005a:93094**
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Lee, Jui-Kai *see* **Ge, Zheng Ming, 2005j:70007**
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Lee, Tsu-Tian *see* **Chang, Yuan-Chang et al., 2005f:93097**
Li, Chuandong (*with* Liao, Xiaofeng; Zhang, Rong[3]) Impulsive synchronization of nonlinear coupled chaotic systems. (English summary)
— (*with* Liao, Xiaofeng; Zhang, Xing-you) Impulsive synchronization of chaotic systems. (English summary)
Li, Yong Ming[1] *see* **Wu, Jing Jie**
Li, Zhiyuan[2] *see* **Wang, Yin He**[1]
Liang, Zhan Hong *see* **Gao, Jin Feng**
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Liberzon, Daniel Output-input stability implies feedback stabilization. (English summary) **2005f:93154**
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Lin, Zhiping *see* **Lam, James et al., 2005f:93149**
Liu, Bing[3] (*with* Zhang, Yu Juan; Chen, Lan Sun) Dynamic complexities of a Holling I predator-prey model concerning periodic biological and chemical control. (English summary) **2005d:34019**
Liu, Fen Lin (*with* Luo, Jun Yong; Cai, Yan Rong) Model-following adaptive robust control for a class of uncertain systems with nonlinear actuators. (Chinese. English and Chinese summaries)
Liu, Xin Zhi *see* **Khadra, Anmar et al.**
Liu, Yan[4] *see* **Jiang, Wei-sheng et al.**
Liu, Yu Zhong (*with* Yu, Hai Bin) Analysis of stability for networked control systems with large delays. (Chinese. English and Chinese summaries)
Liu, Yun-Gang (*with* Zhang, Ji-Feng) Reduced-order observer-based control design for nonlinear stochastic systems. (English summary) **2005a:93154**
Liu, Zeng Rong *see* **Chen, Guanrong et al., 2005h:34208**
Lombardo, Maria Carmela (*with* Sammartino, Marco) Delayed feedback control for the Bénard problem. (English summary) (*see* **2005c:00016**)
Long, Cheng Nian *see* **Guan, Xin Ping et al.**
Lorenzo, Nieves *see* **Montejo, Noelia et al., (2005d:92001**)
Loskutov, A. Yu. (*with* Prokhorov, A. K.; Rybalko, Sergei; Fomina, Yu. S.) Parametric perturbations and dynamic system control. (English summary) **2005g:37071**
Lou, Yiming *see* **Orlov, Yuri V. et al., 2005e:93028**
Lovera, Marco (*with* Astolfi, Alessandro) Global spacecraft attitude control using magnetic actuators. (English summary) **2005f:93071**
Lü, Jinhu *see* **Lu, Jun An et al., 2005a:37055**
Lu, Jun An (*with* Wu, Xiao Qun; Lü, Jinhu; Kang, Li Shan) A new discrete chaotic system with rational fraction and its dynamical behaviors. (English summary) **2005a:37055**
Lu, Junwei *see* **Niu, Yugang et al., 2005d:93078** *and* **Xu, Sheng Yuan et al., 2005d:93093**
Luo, Cheng-Xin (*with* Feng, En Min) Indefinite stochastic optimal LQR control with cross term under IQ constraints. (English summary) **2005b:93164**
Luo, Jun Yong *see* **Liu, Fen Lin et al.**
Luo, Qi (*with* Deng, Fei Qi; Bao, Jundong; Zhao, Birong; Fu, Yuli) Stabilization of stochastic Hopfield neural network with distributed parameters. (English summary) **2005j:35123**
Ma, Xi-Kui *see* **Zhang, Hao**[4] **et al., 2005b:93077**
Magni, Lalo (*with* De Nicolao, Giuseppe; Scattolini, Riccardo) On the stabilization of nonlinear discrete-time systems with output feedback. (English summary) **2005g:93106**
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Mangan, Stephen *see* **Wang, Jihong et al.**
Marconi, Lorenzo (*with* Isidori, Alberto; Serrani, Andrea) Non-resonance conditions for uniform observability in the problem of nonlinear output regulation. (English summary) **2005h:93025**
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Mareels, Iven M. Y. *see* **Nair, Girish N. et al., 2005e:94050**
Marino, Riccardo (*with* Tomei, Patrizio; Verrelli, C. M.) A global tracking control for speed-sensorless induction motors. (English summary)
Marro, Giovanni (*with* Ntogramatzidis, Lorenzo) A feedforward compensation scheme for perfect decoupling of measurable input functions. (English summary) **2005k:93116**
Martynyuk-Chernienko, Yu. A. (*with* Slyn'ko, V. I.) On the synthesis of controls of an inexact system with a conditionally invariant set. (Russian. English and Ukrainian summaries) **2005f:93062**
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Matvienko, V. T. *see* **Kirichenko, N. F., 2005g:70050**
Maya-Ortiz, Paul (*with* Espinosa-Pérez, Gerardo) Output feedback excitation control of synchronous generators. (English summary) **2005c:93091**
Mazenc, Frédéric (*with* Bowong, Samuel) Tracking trajectories of the cart-pendulum system. (English summary)
— (*with* Bowong, Samuel) Backstepping with bounded feedbacks for time-varying systems. (English summary) **2005i:93044**
Mehra, Raman K. (*with* Prasanth, Ravi K.) Model predictive control of nonlinear rotorcraft dynamics with application to the XV-15 tilt rotor. (English summary) (*see* **2005c:93005**)
Mezić, Igor *see* **Hagen, Gregory et al., 2005c:93044**
Michiels, Wim (*with* Engelborghs, Koen; Vansevenant, P.; Roose, Dirk) Continuous pole placement for delay equations. (English summary) **2005k:93110**

— (*with* Mondié, Sabine; Roose, Dirk; Dambrine, Michel) The effect of approximating distributed delay control laws on stability. (English summary) **2005e:93113**
Miroshnik, I. V. (*with* Sergeev, K. A.) Control of spatial motion relative to moving external objects. (Russian. Russian summary) **2005k:93147**
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Montejo, Noelia (*with* Lorenzo, Nieves; Pérez-Muñuzuri, Vicente; Pérez-Villar, Vicente) Control of the behavior in a neuronal system with time-delay. (English summary) (*see* **2005d:92001**)
Montesinos, Gaspar D. (*with* Pérez-García, Víctor M.; Torres, Pedro J.) Stabilization of solitons of the multidimensional nonlinear Schrödinger equation: matter-wave breathers. (English summary) **2005a:35253**
Montestruque, Luis A. (*with* Antsaklis, Panos J.) On the model-based control of networked systems. (English summary)
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Moukam Kakmeni, F. M. (*with* Bowong, Samuel; Tchawoua, Clement; Kaptouom, E.) Strange attractors and chaos control in a Duffing-van der Pol oscillator with two external periodic forces. (English summary) **2005f:37065**
Muñoz-Almaraz, F. J. (*with* Freire Macías, Emilio; Galán-Vioque, J.) Bifurcations and control of periodic orbits in symmetric Hamiltonian systems: an application to the Furuta pendulum. (English summary) (*see* **2005b:93007**)
Myshkov, S. K. *see* **Kabakova, E. V.**, **2005g:93076**
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Nayfeh, Mahir A. (*with* Abed, Eyad H.) High-gain feedback control of rotating stall in axial flow compressors. (English summary)
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Orlov, Yuri V. (*with* Lou, Yiming; Christofides, Panagiotis D.) Robust stabilization of infinite-dimensional systems using sliding-mode output feedback control. (English summary) **2005e:93028**
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— *see also* **Krishchenko, A. P. et al.**, **2005f:49061**
Park, Juhyun[1] On dynamic output feedback guaranteed cost control of uncertain discrete-delay systems: LMI optimization approach. (English summary) **2005b:93102**
Peng, Shou-Tao On a modification approach to a class of Lyapunov-based robust controllers subject to input constraint. (English summary) **2005c:93074**
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Prokhorov, A. K. *see* **Loskutov, A. Yu. et al.**, **2005g:37071**
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Protas, Bartosz Linear feedback stabilization of laminar vortex shedding based on a point vortex model. (English summary) **2005g:76048**
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Rabah, Rabah (*with* Sklyar, Grigory M.; Rezunenko, A. V.) On strong stability and stabilizability of linear systems of neutral type. (English summary) **2005e:34235**
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Repperger, D. W. (*with* Buckholtz, K.; Daniels, M.) A study on the stabilization of the van der Pol limit cycle. (English summary)
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Rocha, Eugénio M. (*with* Sarychev, Andrei V.; Pereira, A.; Rodrigues, R.) An application of control-theoretic methods to digital arithmetic algorithms. **2005f:68008**
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Saha, L. M. (*with* Erjaee, G. H.; Budhraja, M.) Controlling chaos in 2-dimensional systems. (English summary)
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Smaoui, Nejib Controlling the dynamics of Burgers equation with a high-order nonlinearity. (English summary) **2005m:93074**
Smyshlyaev, Andrey (*with* Krstić, Miroslav) Closed-form boundary state feedbacks for a class of 1-D partial integro-differential equations. (English summary) **2005h:93078**
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Stoorvogel, Anton A. (*with* Shi, Guoyong; Saberi, Ali) External stability of a double integrator with saturated linear control laws. (English summary) **2005c:93064**
— (*with* Saberi, Ali) Editorial: The challenge of constraints [Special issue on control of linear systems subject to hard constraints].
Su, Shun-Feng *see* **Chang, Yuan-Chang et al.**, **2005f:93097**
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Szepesvári, Cs. *see* **French, M. et al.**, **2005k:93118**
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— (*with* Mitter, Sanjoy K.) Control over noisy channels. (English summary) **2005c:90015**
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Vittot, Michel (*with* Chandre, C.; Ciraolo, Guido; Lima, Ricardo) Localized control for non-resonant Hamiltonian systems. (English summary) **2005g:37121**
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Wang, Hong[5] *see* **Wen, Jin Huan**, **2005g:93081**
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— *see also* **Wang, Zai Hua et al.**

Wang, Jianguo *see* **Ruan, Xiaoe et al.**
Wang, Jihong (*with* Kotta, Ülle; Mangan, Stephen; Wei, Jianlin) Tracking control of nonlinear pneumatic systems using input/output linearization by state feedback. (English summary)
Wang, Jin-Zhi *see* **Duan, Zhi-Sheng et al., 2005f:34130**
Wang, Qiang De (*with* Jing, Yuan Wei; Zhang, Si Ying) Adaptive and practical output tracking control of nonlinear systems. (English and Chinese summaries)
Wang, Xin Hua[1] (*with* Chen, Zeng Qiang; Yuan, Zhu Zhi) Output tracking based on extended observer for nonlinear uncertain systems. (Chinese. English and Chinese summaries)
Wang, Xing Yu *see* **Niu, Yugang et al., 2005d:93078**
Wang, Yin He[1] (*with* Li, Zhiyuan[2]) Adaptive tracking control for a class of nonlinear systems based on fuzzy logic systems. (Chinese. English and Chinese summaries)
Wang, Zai Hua (*with* Hu, Hai Yan; Wang, Huailei) Robust stabilization to non-linear delayed systems via delayed state feedback: the averaging method. (English summary)
— *see also* **Wang, Huailei et al., 2005d:34079**
Wang, Zhan Shan *see* **Ji, Ce et al.**
Wei, C. L. *see* **Chen, Chung Cheng et al., 2005g:93026**
Wei, Jianlin *see* **Wang, Jihong et al.**
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(Wolenski, Peter R.) *see* **Optimal control, stabilization and nonsmooth analysis, 2005b:49001**
Wu, Chao *see* **He, Ying Jie**[1] **et al., 2005k:93099**
Wu, Huai-Ning (*with* Cai, Kai-Yuan) H_2 guaranteed cost fuzzy control for uncertain nonlinear systems via linear matrix inequalities. (English summary) **2005f:93101**
Wu, Jing[3] *see* **Guan, Xin Ping et al.**
Wu, Jing Jie (*with* Li, Yong Ming[1]) Stabilization of fuzzy control systems. (Chinese. English and Chinese summaries)
Wu, Qing-Hua *see* **Zhang, Dong Wen**
Wu, Xiao Qun *see* **Lu, Jun An et al., 2005a:37055**
Xia, Xiaohua (*with* Zinober, Alan S. I.) Periodic orbits from Δ-modulation of stable linear systems. (English summary) **2005b:93107**
— *see also* **Engelberg, Shlomo, 2005m:93088**
Xian, Bin (*with* Dawson, Darren M.; de Queiroz, Marcio Santos; Chen, Jian[1]) A continuous asymptotic tracking control strategy for uncertain nonlinear systems. (English summary) **2005b:93076**
— *see also* **Dadfarnia, Mohsen et al., 2005a:74043**
Xie, Yu[1] *see* **Guo, Bao Zhu, 2005d:74023** *and* **2005i:93050**
Xu, Dao Yi *see* **Zhang, Zi Fang et al., 2005f:30015**
Xu, Jian[2] (*with* Yu, Pei[1]) Delay-induced bifurcations in a nonautonomous system with delayed velocity feedbacks. (English summary) **2005h:34198**
Xu, Sheng Yuan (*with* Lu, Junwei; Zhou, Shao Sheng; Yang, Cheng Wu) An LMI approach to positive real control for discrete time-delay systems. (English summary) **2005d:93093**
— (*with* Lam, James) Robust output feedback stabilization of uncertain discrete time-delay stochastic systems with multiplicative noise. (English summary) **2005f:93174**
— (*with* Chen, Tong Wen) Robust H_∞ control for uncertain discrete-time stochastic bilinear systems with Markovian switching. (English summary) **2005k:93235**
— *see also* **Lam, James et al., 2005f:93149**
Xue, Bian-ling *see* **Zhang, Hao**[4] **et al., 2005b:93077**
Yakubovich, V. A. *see* **Proskurnikov, A. V., 2005i:93040**
Yan, Qing-Xu (*with* Chen, Zhen-Guo; Feng, De Xing) Exponential stabilization of Euler-Bernoulli beam with dissipative boundary feedback. (English and Chinese summaries)
Yang, Bo[7] (*with* Lin, Wei[2]) Homogeneous observers, iterative design, and global stabilization of high-order nonlinear systems by smooth output feedback. (English summary) **2005d:93069**
Yang, Cheng Wu *see* **Xu, Sheng Yuan et al., 2005d:93093**
Yang, Kyung-Jinn (*with* Hong, Keum-Shik; Matsuno, Fumitoshi) Robust adaptive boundary control of an axially moving string under a spatiotemporally varying tension. (English summary) **2005b:93087**
— *see also* **Choi, Ji-Yun et al., 2005c:74056**
Yang, Ruoting (*with* Hong, Yiguang; Qin, Huashu; Chen, Guanrong) Anticontrol of chaos for dynamic systems in p-normal form: a homogeneity-based approach. (English summary)
Yang, Y. R. *see* **Cao, Deng Qing et al., 2005f:93145**
Yang, Zhaoyu *see* **Jing, Hai Ying, 2005h:93085**
Yao, David D. (*with* Zhang, Shu Zhong; Zhou, Xun Yu) Stochastic linear-quadratic control via primal-dual semidefinite programming. (English summary) **2005h:93178**
Yebari, Naji Decay estimates for solutions of some systems for elasticity with nonlinear boundary feedback. (English summary) (*see* **2005i:35003**)
Yu, Hai Bin *see* **Liu, Yu Zhong**
Yu, Pei[1] (*with* Chen, Guanrong) Hopf bifurcation control using nonlinear feedback with polynomial functions. (English summary) **2005b:37108**
— *see also* **Xu, Jian**[2]**, 2005h:34198**
Yuan, Zhu Zhi *see* **Wang, Xin Hua**[1] **et al.**
Yue, Dong (*with* Lam, James) Suboptimal robust mixed H_2/H_∞ controller design for uncertain descriptor systems with distributed delays. (English summary) **2005b:93070**
Zadehmorshed Beik, H. *see* **Haeri, Mohammad**
Zhai, Guisheng *see* **Ikeda, Masao et al., 2005h:93002**
Zhang, Dong Wen (*with* Wu, Qing-Hua) Robust quadratic performance for linear neutral systems with uncertainties. (Chinese. English and Chinese summaries)
Zhang, Hao[4] (*with* Ma, Xi-Kui; Xue, Bian-ling) A novel boundedness-based linear and nonlinear approach to control chaos. (English summary) **2005b:93077**
Zhang, Hua Guang *see* **Ji, Ce et al.** *and* **Huang, Wei**
Zhang, Ji-Feng *see* **Liu, Yun-Gang, 2005a:93154**
Zhang, Jin[5] *see* **Ge, Shuzhi Sam et al., 2005d:93087**
Zhang, Li Zhen[2] *see* **Guo, Rong Wei**[2] **et al., 2005m:37072**
Zhang, Q. (*with* Guo, Bao Zhu) Stabilization of an elastic plate with viscoelastic boundary conditions. (English summary) **2005e:93078**
Zhang, Qin *see* **Chen, Shi Hua**[3] **et al., 2005i:37103**
Zhang, Rong[3] *see* **Li, Chuandong et al.**
Zhang, Shu Zhong *see* **Yao, David D. et al., 2005h:93178**
Zhang, Si Ying *see* **Wang, Qiang De et al.**
Zhang, Tao[1] *see* **Guay, Martin**
Zhang, Xiang Wei *see* **Jin, Chao Yong, 2005m:93069**
Zhang, Xing-you *see* **Li, Chuandong et al.**
Zhang, Xu[1] *see* **Lasiecka, Irena et al., 2005a:93084** *and* **2005g:35274**
Zhang, Yu Juan *see* **Liu, Bing**[3] **et al., 2005d:34019**
Zhang, Zi Fang (*with* Xu, Dao Yi; Niu, Jian Ren) Further results on the bounds of the zeros of quasi-critical polynomials. (English summary) **2005f:30015**
Zhao, Birong *see* **Luo, Qi et al., 2005j:35123**
Zhao, Qianchuan (*with* Zheng, Da-Zhong) On stabilization of min-max systems. (English summary)
Zheng, Da-Zhong *see* **Zhao, Qianchuan**
Zhou, Jin[1] *see* **Chen, Guanrong et al., 2005h:34208**
Zhou, Kemin *see* **Chen, Xinjia et al., 2005c:93066** *and* **Campos-Delgado, Daniel U.**
Zhou, Shao Sheng *see* **Xu, Sheng Yuan et al., 2005d:93093**
Zhou, Xun Yu *see* **Yao, David D. et al., 2005h:93178** *and* **Chen, Xi**[4]**, 2005k:49099**
Zhou, Yan[3] *see* **Ji, Guo Jun**
Zhu, Kai-En (*with* Chen, Tian-Lun; Bian, Guo-Xing) Controlling spatiotemporal chaos in coupled map lattices to periodic orbits. (English summary) **2005b:37059**
Zhu, W. Q. Feedback stabilization of quasi nonintegrable Hamiltonian systems by using Lyapunov exponent. (English summary) **2005f:93175**
Zinober, Alan S. I. *see* **Xia, Xiaohua, 2005b:93107** *and* **Engelberg, Shlomo, 2005m:93088**
Zou, Yun *see* **Lam, James et al., 2005f:93149**

Items listed otherwise than by author

Baton Rouge, LA ★ Optimal control, stabilization and nonsmooth analysis. **2005b:49001**
Lecture Notes in Control and Information Sciences ★ Optimal control, stabilization and nonsmooth analysis. **2005b:49001**
Optimal control, stabilization and nonsmooth analysis ★ Optimal control, stabilization and nonsmooth analysis. **2005b:49001**

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Alekseeva, S. A. (*with* Vorotnikov, V. I.; Feofanova, V. A.) On problems of partial equi-asymptotic stability of nonlinear dynamical systems. (Russian. Russian summary) **2005m:93135**
Angeli, David (*with* De Leenheer, Patrick; Sontag, Eduardo D.) A small-gain theorem for almost global convergence of monotone systems. (English summary) **2005b:93140**
Avanyan, M. V. *see* **Avanyan, V. T.**
Avanyan, V. T. (*with* Avanyan, M. V.) An application of the Lyapunov vector function in K^{ω}_{Δ}-stability problems. (Russian. English and Armenian summaries)
Bao, Jun Yan *see* **Wang, Pei Guang, 2005b:93144**
Cao, Guang Yi *see* **Zeng, Qing Shan et al.**
Cao, Jin De *see* **Zhou, Dong Ming**[2] **et al.**
Chatté, Fabien *see* **Niculescu, Silviu-Iulian et al., (2005g:93003)**
Curran, Paul F. *see* **Shorten, Robert N. et al., 2005e:93139**
De Leenheer, Patrick *see* **Angeli, David et al., 2005b:93140**
Ding, Juan (*with* Yao, Hong Xing) Gain control of a kind of nonlinear chaotic finance system. (Chinese. English and Chinese summaries)
Drăgan, Vasile (*with* Freiling, Gerhard; Hochhaus, Andreas; Morozan, Toader) A class of nonlinear differential equations on the space of symmetric matrices. (English summary) **2005k:93196**
Espinosa-Pérez, Gerardo *see* **Maya-Ortiz, Paul, 2005c:93091**
Fang, Haijun (*with* Lin, Zongli) Stability analysis for linear systems under state constraints. (English summary) **2005b:93141**
Feofanova, V. A. *see* **Alekseeva, S. A. et al., 2005m:93135**
Freiling, Gerhard *see* **Drăgan, Vasile et al., 2005k:93196**
Funahashi, Yasuyuki *see* **Ooba, Tatsushi, 2005g:93100**
Gelig, A. Kh. (*with* Kabrits, M. S.) Asymptotic stability of nonlinear pulse systems. (English summary) **2005f:93143**
Gil', Michael Iosif The Aizerman-Myshkis problem for functional-differential equations with causal nonlinearities. (English summary) **2005m:93136**
Gitizadeh, Rabin *see* **Margaliot, Michael**
Gu, Keqin *see* **Niculescu, Silviu-Iulian et al., (2005g:93003)**
Guan, Zhi Hong *see* **Huang, Jian et al.**
Guo, Wei Hua *see* **Xu, Hou Bao et al., 2005g:93102**
Hespanha, João P. *see* **Teel, Andrew R., 2005d:93124**
Hochhaus, Andreas *see* **Drăgan, Vasile et al., 2005k:93196**
Huang, Jian (*with* Guan, Zhi Hong; Wang, Zhongdong) Exponential stability for networked control systems based on the model of nonlinear discrete-time system with time-varying delay. (English summary)
Huang, Jie[1] *see* **Wang, Jin**
Jiang, Ming Hui[2] *see* **Shen, Yi**[2] **et al., 2005k:93197**
Kabrits, M. S. *see* **Gelig, A. Kh., 2005f:93143**
Konigsberg, Zvi Retchkiman Modeling and stability analysis for a class of dynamical systems with switching inputs. (English summary) (*see* **2005i:00016**)
Lakshmikantham, V. (*with* Sivasundaram, S.) Asymptotic controllability in terms of two measures of hybrid dynamic systems. **2005d:93123**
Li, Chuandong (*with* Liao, Xiaofeng; Wong, Kwok-Wo) Chaotic lag synchronization of coupled time-delayed systems and its applications in secure communication. (English summary) **2005b:93142**
Liao, Xiao Xin *see* **Xu, Bing Ji et al.**
Liao, Xiaofeng *see* **Li, Chuandong et al., 2005b:93142**
Lin, Zongli *see* **Fang, Haijun, 2005b:93141**
Liu, Xin Zhi (*with* Teo, Kok Lay; Zhang, Yi[2]) Absolute stability of impulsive control systems with time delay. (English summary) **2005m:93137**
Luzyanina, Tatyana *see* **Niculescu, Silviu-Iulian et al., (2005g:93003)**

Margaliot, Michael (*with* Gitizadeh, Rabin) The problem of absolute stability: a dynamic programming approach. (English summary)
Maya-Ortiz, Paul (*with* Espinosa-Pérez, Gerardo) Output feedback excitation control of synchronous generators. (English summary) **2005c:93091**
Mazenc, Frédéric *see* **Niculescu, Silviu-Iulian et al.**, (**2005g:93003**)
Melchor-Aguilar, Daniel *see* **Niculescu, Silviu-Iulian et al.**, (**2005g:93003**)
Michiels, Wim *see* **Niculescu, Silviu-Iulian et al.**, (**2005g:93003**)
Morgül, Ömer An exponential stability result for the wave equation. (English summary)
Morozan, Toader *see* **Drăgan, Vasile et al.**, **2005k:93196**
Niculescu, Silviu-Iulian (*with* Michiels, Wim; Melchor-Aguilar, Daniel; Luzyanina, Tatyana; Mazenc, Frédéric; Gu, Keqin; Chatté, Fabien) Delay effects on the asymptotic stability of various fluid models in high-performance networks. (*see* **2005g:93003**)
Ooba, Tatsushi (*with* Funahashi, Yasuyuki) Stability analysis of two-dimensional systems by means of finitely constructed bilateral quadratic forms. (English summary) **2005g:93100**
Paganini, Fernando *see* **Wang, Zhikui**, (**2005g:93003**)
Pastravanu, Octavian (*with* Voicu, Mihail) Necessary and sufficient conditions for componentwise stability of interval matrix systems. (English summary) **2005b:93143**
Shen, Yi[2] (*with* Jiang, Ming Hui[2]; Yao, Hong Shan) Exponential stability of cellular neural networks. (Chinese. English and Chinese summaries) **2005k:93197**
— *see also* **Xu, Bing Ji et al.**
Shorten, Robert N. (*with* Curran, Paul F.; Wulff, Kai) On time-domain multiplier criteria for single-input single-output systems. (English summary) **2005e:93139**
Shumafov, M. M. On the asymptotic stability of a dynamical system with the Watt governor. (Russian. Russian summary) **2005k:93198**
Sivasundaram, S. *see* **Lakshmikantham, V.**, **2005d:93123**
Song, Qian Kun Criteria for exponential stability of time-varying interval Lurie control systems with multi-delay. (Chinese. English and Chinese summaries)
Sontag, Eduardo D. *see* **Angeli, David et al.**, **2005b:93140**
Spasskiĭ, R. A. Invariance and absolute stability of a class of control systems. (Russian. Russian summary) **2005g:93101**
Sun, Mei[1] (*with* Tian, Li Xin) Inverse optimal control for a new chaotic system. (Chinese. English and Chinese summaries)
Teel, Andrew R. (*with* Hespanha, João P.) Examples of GES systems that can be driven to infinity by arbitrarily small additive decaying exponentials. (English summary) **2005d:93124**
Teo, Kok Lay *see* **Liu, Xin Zhi et al.**, **2005m:93137**
Tian, Li Xin *see* **Sun, Mei**[1]
Voicu, Mihail *see* **Pastravanu, Octavian**, **2005b:93143**
Vorotnikov, V. I. *see* **Alekseeva, S. A. et al.**, **2005m:93135**
Wang, Jin (*with* Huang, Jie[1]) Neural network enhanced output regulation in nonlinear systems. (English summary)
Wang, Pei Guang (*with* Bao, Jun Yan) Absolute stability of a multi-nonlinear nonstationary Lurie control system. (Chinese. English and Chinese summaries) **2005b:93144**
Wang, Yan Qun *see* **Xu, Hui et al.**
Wang, Zai Hua Robust Hurwitz stability of a class of complex polynomials arising from H_∞ control theory. (English summary) **2005d:93125**
Wang, Zhikui (*with* Paganini, Fernando) Global stability of nonlinear congestion control with time-delay. (*see* **2005g:93003**)
Wang, Zhongdong *see* **Huang, Jian et al.**
Wong, Kwok-Wo *see* **Li, Chuandong et al.**, **2005b:93142**
Wulff, Kai *see* **Shorten, Robert N. et al.**, **2005e:93139**
Xu, Bing Ji (*with* Shen, Yi[2]; Liao, Xiao Xin) Absolute stability of a general neutral type of Lurie indirect control systems. (Chinese. English and Chinese summaries)
Xu, Hou Bao (*with* Guo, Wei Hua; Yu, Jing Yuan; Zhu, Guang Tian) Asymptotic stability of k-out-of-N:G redundant system. (English and Chinese summaries) **2005g:93102**
Xu, Hui (*with* Zhang, Meng Qiu; Wang, Yan Qun) Necessary and sufficient conditions for 4th-order absolute stability of some direct control systems. (Chinese. English and Chinese summaries)
Yang, Xiao Song Existence of unbounded solutions of time varying systems and failure of global asymptotic stability in discrete-time cascade systems. (English summary) **2005k:93199**
Yao, Hong Shan *see* **Shen, Yi**[2] **et al.**, **2005k:93197**
Yao, Hong Xing *see* **Ding, Juan**
Yu, Jing Yuan *see* **Xu, Hou Bao et al.**, **2005g:93102**
Zeng, Qing Shan (*with* Cao, Guang Yi; Zhu, Xin Jian) Asymptotic stability of sequential fractional-order systems. (Chinese. English and Chinese summaries)
Zhang, Liming[2] *see* **Zhou, Dong Ming**[2] **et al.**
Zhang, Meng Qiu *see* **Xu, Hui et al.**
Zhang, Yi[2] *see* **Liu, Xin Zhi et al.**, **2005m:93137**
Zhou, Dong Ming[2] (*with* Cao, Jin De; Zhang, Liming[2]) Global asymptotic stability conditions of delayed neural networks. (Chinese. English and Chinese summaries)
Zhu, Guang Tian *see* **Xu, Hou Bao et al.**, **2005g:93102**
Zhu, Xin Jian *see* **Zeng, Qing Shan et al.**

Items with secondary classifications in 93D20

Abdursul, Rixat (*with* Inaba, Hiroshi; Ghosh, Bijoy K.) Nonlinear observers for perspective time-invariant linear systems. (English summary) **2005m:93019**
Adesina, Olufemi Adeyinka On the exponential stability of a certain Lurie system. (English summary)
Agler, Jim (*with* Young, Nicholas J.) The hyperbolic geometry of the symmetrized bidisc. (English summary) **2005e:32022**
Agrawal, Sunil K. *see* **Zhang, Yuhong**[1] **et al.**
Aguirre, Luis A. *see* **Tôrres, Leonardo A. B.**
Ailon, Amit Asymptotic stability in a flexible-joint robot with model uncertainty and multiple time delays in feedback. (English summary) **2005e:93102**
Angeli, David (*with* Ingalls, Brian P.; Sontag, Eduardo D.; Wang, Yuan[2]) Uniform global asymptotic stability of differential inclusions. (English summary) **2005b:34024**
— (*with* Ingalls, Brian P.; Sontag, Eduardo D.; Wang, Yuan[2]) Separation principles for input-output and integral-input-to-state stability. (English summary) **2005k:93210**
Arcak, Murat (*with* Teel, Andrew R.) Input-to-state stability for a class of Lurie systems. (English summary)
— Certainty-equivalence output-feedback design with circle-criterion observers. (English summary) **2005m:93059**
Ateiwi, Ali Mahmud *see* **Komashins'ka, Ī. V.**
Bacciotti, Andrea Stabilization by means of state space depending switching rules. (English summary) **2005d:93108**
Barbosa, Karina A. (*with* de Souza, Carlos E.; Trofino-Neto, Alexandre) Robust $\mathscr{H}_2$ filtering for uncertain linear systems: LMI based methods with parametric Lyapunov functions. (English summary) **2005k:93222**
Barcena, R. *see* **de la Sen, Manuel**, **2005g:34164**
Bazanella, Alexandre S. *see* **Coutinho, D. F. et al.**, **2005f:34006**
Belkhouche, Fethi Trajectory-based optimal linearization for nonlinear autonomous vector fields. (English summary) **2005k:34189**
Benlemkadem, A. *see* **Mesquine, Fouad et al.**, **2005e:93066**
Benzaouia, Abdellah *see* **Mesquine, Fouad et al.**, **2005e:93066**
Bowong, Samuel *see* **Mazenc, Frédéric**, **2005i:93044**
Cai, Yong[2] (*with* Zhang, You Gang; Xiao, Jian[1]) LMI-based decentralized stabilization of fuzzy large-scale systems with time-delay interconnections. (Chinese. English and Chinese summaries)
Cantó, Begoña (*with* Coll, Carmen; Sánchez, Elena) Positive N-periodic descriptor control systems. (English summary) **2005i:93055**
Cao, Jin De (*with* Ho, Daniel W. C.) A general framework for global asymptotic stability analysis of delayed neural networks based on LMI approach. (English summary) **2005i:34092**
— *see also* **Chen, An Ping**[2] **et al.**, **2005d:93103** *and* **Li, Xiaolin**, **2005f:93127**
Castillo-Toledo, B. (*with* Čelikovský, Sergej; Di Gennaro, S.) Generalized immersion and nonlinear robust output regulation problem. (English summary) **2005a:93079**
Čelikovský, Sergej *see* **Castillo-Toledo, B. et al.**, **2005a:93079**
Chen, An Ping[2] (*with* Cao, Jin De; Huang, Li Hong[1]) Global robust stability of interval cellular neural networks with time-varying delays. (English summary) **2005d:93103**
Chen, Bing[2] Reliable fuzzy H_∞ control of uncertain systems with time-varying delay. (English summary) **2005b:93089**
Chen, Feng De *see* **Zhang, Hui Ying**
Chen, Guanrong *see* **Liao, Xiaofeng et al.**
Chen, Shi Hua[3] (*with* Zhang, Qin; Wang, Chang Ping[2]) Existence and stability of equilibria of the continuous-time Hopfield neural network. (English summary) **2005i:37103**
Chen, Shuhao (*with* Tao, Gang; Joshi, Suresh Meghashyam) Adaptive actuator failure compensation control for MIMO systems. (English summary) **2005f:93090**
Chen, Wan Yi Global asymptotic stability for a class of Hopfield neural networks with delays. (Chinese. English and Chinese summaries)
Chen, Wu Hua (*with* Guan, Zhi Hong; Lu, Xiao Mei) Absolute stability of Lurie indirect control systems with multiple variable delays. (Chinese. English and Chinese summaries) **2005k:34288**
Chen, Yang-zhou (*with* Zhang, Li-guo; Cui, Ping-yuan) Stabilization of linear time-invariant (LTI) planar switched systems. (English and Chinese summaries)
Chen, Yu Shu *see* **Ma, Jun Hai et al.**
Chen, Zhen-Guo *see* **Yan, Qing-Xu et al.**
Coll, Carmen *see* **Cantó, Begoña et al.**, **2005i:93055**
Coutinho, D. F. (*with* Bazanella, Alexandre S.; Trofino-Neto, Alexandre; e Silva, A. S.) Stability analysis and control of a class of differential-algebraic nonlinear systems. (English summary) **2005f:34006**
Cui, Ping-yuan *see* **Chen, Yang-zhou et al.**
De Persis, Claudio (*with* Isidori, Alberto) Stabilizability by state feedback implies stabilizability by encoded state feedback. (English summary) **2005e:93124**
Deshmukh, Venkatesh (*with* Sinha, S. C.) Control of dynamic systems with time-periodic coefficients via the Lyapunov-Floquet transformation and backstepping technique. (English summary) **2005f:93136**
Di Gennaro, S. *see* **Castillo-Toledo, B. et al.**, **2005a:93079**
Ding, Changming The limit sets of uniformly asymptotically Zhukovskij stable orbits. (English summary) **2005a:37038**
Diong, Bill M. Sliding-mode control design for a class of systems with non-matching nonlinearities and disturbances. (English summary) **2005b:93030**
Duan, Zhi-Sheng (*with* Wang, Jin-Zhi; Huang, Lin[1]) Input and output coupled nonlinear systems. (English summary)
Fang, Hua Jing *see* **Xie, Linbo et al.**, **2005f:93113**
Feng, De Xing *see* **Yan, Qing-Xu et al.**
Ghosh, Bijoy K. *see* **Abdursul, Rixat et al.**, **2005m:93019**
Gorshkov, A. V. Stabilization of solutions of parabolic equations in an unbounded domain. (Russian. Russian summary) **2005f:93085**
Guan, Xin Ping *see* **Hua, Changchun et al.**, **2005m:93023**
Guan, Zhi Hong *see* **Chen, Wu Hua et al.**, **2005k:34288**
Guo, Wei Hua *see* **Xu, Hou Bao**
Hagedorn, Peter *see* **Zhang, Yuhong**[1] **et al.**
Hinrichsen, Diederich *see* **Kharitonov, Vladimir L.**, **2005g:34192**
Ho, Daniel W. C. *see* **Cao, Jin De**, **2005i:34092**
Hua, Changchun (*with* Guan, Xin Ping; Shi, Peng) Robust backstepping control for a class of time delayed systems. (English summary) **2005m:93023**
Huang, Chunqing (*with* Shi, Song Jiao) Globally robust nonlinear PID controllers for robot manipulators with an uncertain Jacobian matrix. (English summary)
Huang, Fa-Lun *see* **Liu, Yan**[4] **et al.**, **2005h:93138**
Huang, Li Hong[1] *see* **Chen, An Ping**[2] **et al.**, **2005d:93103**
Huang, Lin[1] *see* **Duan, Zhi-Sheng et al.**
Inaba, Hiroshi *see* **Abdursul, Rixat et al.**, **2005m:93019**
Ingalls, Brian P. *see* **Angeli, David et al.**, **2005b:34024** *and* **2005k:93210**
Isidori, Alberto *see* **De Persis, Claudio**, **2005e:93124**
Jiang, Wei[1] Eigenvalue and stability of singular differential delay systems. (English summary) **2005e:34234**
Jiang, Wei-sheng *see* **Liu, Yan**[4] **et al.**, **2005h:93138**

Jin, Gang *see* **Zhao, Jun[2], 2005b:93139**
Jing, Yuan Wei *see* **Zhang, You et al., 2005e:93053**
Johansen, Tor Arne Approximate explicit receding horizon control of constrained nonlinear systems. (English summary) **2005m:93062**
Joshi, Suresh Meghashyam *see* **Chen, Shuhao et al., 2005f:93090**
Kaneda, Masahiro[2] *see* **Xin, Xin et al., 2005b:70005**
Kellett, Christopher M. (*with* Shim, Hyungbo; Teel, Andrew R.) Further results on robustness of (possibly discontinuous) sample and hold feedback. (English summary) **2005b:93051**
— (*with* Teel, Andrew R.) Smooth Lyapunov functions and robustness of stability for difference inclusions. (English summary) **2005c:93071**
Kharitonov, Vladimir L. (*with* Hinrichsen, Diederich) Exponential estimates for time delay systems. (English summary) **2005g:34192**
Komashins'ka, Ī. V. (*with* Ateiwi, Ali Mahmud) On preservation of stability under transition from difference to differential equations. (English summary)
Konigsberg, Zvi Retchkiman Switching modeling, stability and regulation for biological systems: genomics. (English summary) **2005a:92030**
Krishchenko, A. P. (*with* Panfilov, D. Yu.; Tkachev, S. B.) Construction of minimal-phase affine systems. (Russian. Russian summary) **2005f:49061**
Kwon, O. M. *see* **Park, Juhyun[1], 2005m:93129**
Lam, James *see* **Zhang, Qing Ling et al., 2005c:93055**
Lee, Ho-Hoon A new design approach for the anti-swing trajectory control of overhead cranes with high-speed hoisting. (English summary) **2005g:93050**
Lhous, M. *see* **Rachik, Mostafa et al., 2005d:93107**
Li, Chuandong (*with* Liao, Xiaofeng; Zhang, Rong[3]) Delay-dependent exponential stability analysis of bi-directional associative memory neural networks with time delay: an LMI approach. (English summary) **2005h:34201**
Li, Xiaolin (*with* Cao, Jin De) Global exponential robust stability of delayed neural networks. (English summary) **2005f:93127**
Liao, Xiaofeng (*with* Chen, Guanrong; Sanchez, Edgar N.) Corrections to: "LMI-based approach for asymptotically stability analysis of delayed neural networks" [IEEE Trans. Circuits Systems I Fund. Theory Appl. **49** (2002), no. 7, 1033–1039; MR1916631 (2004h:82087)].
— *see also* **Li, Chuandong et al., 2005h:34201**
Lien, Chang-Hua Robust observer-based control of systems with state perturbations via LMI approach. (English summary) **2005d:93128**
Liu, Bin[8] (*with* Xi, Yu Geng) Stable nonlinear model predictive controller based on aggregation strategy. (Chinese. English and Chinese summaries)
Liu, Xin Zhi (*with* Shen, Xuemin; Zhang, Yi[2]) Absolute stability of nonlinear systems with time delays and applications to neural networks. (English summary) **2005i:34095**
Liu, Yan[4] (*with* Jiang, Wei-sheng; Huang, Fa-Lun) On the stabilization of elastic plates with dynamical boundary control. (English summary) **2005h:93138**
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— (*with* Mondié, Sabine; Niculescu, Silviu-Iulian) Global stabilization of oscillators with bounded delayed input. (English summary) **2005f:93140**
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Muñoz-Lecanda, Miguel C. (*with* Yániz-Fernández, F. Javier) A global study of the stability of nonholonomic dissipative systems. (English summary) **2005e:70020**
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— (*with* Teel, Andrew R.) A framework for stabilization of nonlinear sampled-data systems based on their approximate discrete-time models. (English summary) **2005c:93056**
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Park, Juhyun[1] Robust non-fragile guaranteed cost control of uncertain large-scale systems with time-delays in subsystem interconnections. (English summary) **2005b:93136**
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— (*with* van de Wouw, Nathan; Nijmeijer, Henk) The local approximate output regulation problem: convergence region estimates. (English summary) **2005h:93077**
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— *see also* **Megan, Mihail et al., 2005f:34131**
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de Souza, Carlos E. *see* **Barbosa, Karina A. et al., 2005k:93222**
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Xiao, Jian[1] *see* **Cai, Yong[2] et al.**
Xie, Linbo (*with* Fang, Hua Jing; Zheng, Ying[3]) Guaranteed cost control for networked control systems. (English summary) **2005f:93113**
Xin, Xin (*with* Mita, Tsutomu; Kaneda, Masahiro[2]) The posture control of a two-link free flying acrobot with initial angular momentum. (English summary) **2005b:70005**
Xu, Hou Bao (*with* Guo, Wei Hua) Asymptotic stability of a parallel repairable system with warm standby. (English summary)
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Zasadzinski, M. (*with* Magarotto, E.; Rafaralahy, H.; Souley Ali, H.) Residual generator design for singular bilinear systems subjected to unmeasurable disturbances: an LMI approach. (English summary)
Zhang, Hui Ying (*with* Chen, Feng De) Permanence and positive periodic solution of an n-species nonautonomous periodic competition system with feedback controls. (Chinese. English and Chinese summaries)
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— *see also* **Sun, Wen An et al.**
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Cai, Xiu Shan (*with* Han, Zheng Zhi; Kou, Chun Hai) Semiglobally practical stabilization of a class of multivariable nonlinear systems with uncertainty. (Chinese. English and Chinese summaries)
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— *see also* **Huang, Jie[1], 2005h:93150**
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Diao, Yixin (*with* Passino, Kevin M.) Stable adaptive control of feedback linearizable time-varying non-linear systems with application to fault-tolerant engine control. (English summary)
Ding, Zhengtao Global stabilization and disturbance suppression of a class of nonlinear systems with uncertain internal model. (English summary)
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Ito, Hiroshi[1] (*with* Jiang, Zhong-Ping) Robust disturbance attenuation of nonlinear systems using output feedback and state-dependent scaling. (English summary)
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Jiang, Xie Fu (*with* Xu, Wen Li[1]) Output-feedback adaptive control for delay parameters in time-delay system. (Chinese. English and Chinese summaries)
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— *see also* **Ito, Hiroshi[1]**
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Kaliora, Georgia (*with* Astolfi, Alessandro) Nonlinear control of feedfoward systems with bounded signals. (English summary) **2005h:93151**
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— (*with* Ortega, Romeo; Astolfi, Alessandro) Nonlinear adaptive stabilization via system immersion: control design and applications. **2005k:93202**

Kharitonov, Vladimir L. (*with* Niculescu, Silviu-Iulian; Moreno, Jaime A.; Michiels, Wim) Static output feedback stabilization: necessary conditions for multiple delay controllers. (English summary) **2005g:93104**

Kim, Ki Baek Implementation of stabilizing receding horizon controls for time-varying systems. (English summary)

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Kou, Chun Hai *see* **Cai, Xiu Shan et al.**

Kulkarni, A. M. *see* **Gupta, Rajeev et al.**

Kuntsevich, V. M. Robust stabilizability of discrete control systems. (Russian. English, Russian and Ukrainian summaries)

Lam, James (*with* Xu, Sheng Yuan; Zou, Yun; Lin, Zhiping; Gałkowski, K.) Robust output feedback stabilization for two-dimensional continuous systems in Roesser form. (English summary) **2005f:93149**

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Li, Dongguang (*with* Shah, Sirish L.; Chen, Tong Wen) Analysis of dual-rate inferential control systems. (English summary)

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Li, Tao[4] *see* **Zhou, Shao Sheng**

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Lin, Wei[2] *see* **Yang, Bo[7], 2005k:93209**

Lin, Xiang Ze (*with* Tian, Yu Ping[1]) Invariance principle and state feedback stabilization of invariant sets of switched systems. (Chinese. English and Chinese summaries)

Lin, Zhiping *see* **Lam, James et al., 2005f:93149**

Liu, Bin[6] (*with* Chen, Guanrong; Teo, Kok Lay; Liu, Xin Zhi) Robust global exponential synchronization of general Lur′e chaotic systems subject to impulsive disturbances and time delays. (English summary) **2005g:93105**

Liu, Fen Lin (*with* Li, Jing Bo; Luo, Jun Yong) Continuous adaptive robust output feedback stabilization for a class of uncertain nonlinear systems. (Chinese. English and Chinese summaries)

Liu, Pin-Lin Delay-dependent asymptotic stabilization for uncertain time-delay systems with saturating actuators. (English summary) **2005k:93203**

Liu, Xiao Ping[2] (*with* Jutan, A.; Rohani, S.) Almost disturbance decoupling of MIMO nonlinear systems and application to chemical processes. (English summary)

Liu, Xiao Zhi (*with* Jing, Yuan Wei; Zhang, Si Ying) Robust decentralized stabilization for uncertain interconnected delayed systems using reduction method. (Chinese. English and Chinese summaries)

— (*with* Li, Hua; Jing, Yuan Wei; Zhang, Si Ying) Observer-based robust decentralized stabilization for a class of uncertain interconnected time-delay systems. (Chinese. English and Chinese summaries)

Liu, Xin Zhi *see* **Liu, Bin[6] et al., 2005g:93105** *and* **Xu, Hong Lei et al., 2005k:93208**

Liu, Yun-Gang (*with* Zhang, Ji-Feng) Minimal-order observer and output-feedback stabilization control design of stochastic nonlinear systems. (English summary) **2005k:93204**

— (*with* Zhang, Ji-Feng) Output-feedback adaptive stabilization control design for non-holonomic systems with strong non-linear drifts. (English summary) **2005m:93139**

Lizárraga, David A. (*with* Aneke, Nnaedozie P. I.; Nijmeijer, Henk) Robust point stabilization of underactuated mechanical systems via the extended chained form. (English summary) **2005e:93143**

Luo, Jun Yong *see* **Liu, Fen Lin et al.**

Ma, Haitao (*with* Deshmukh, Venkatesh; Butcher, Eric; Averina, Victoria) Delayed state feedback and chaos control for time-periodic systems via a symbolic approach. (English summary)

Magnani, Lorenzo *see* **Magni, Lalo et al.**

Magni, Lalo (*with* De Nicolao, Giuseppe; Magnani, Lorenzo; Scattolini, Riccardo) A stabilizing model-based predictive control algorithm for nonlinear systems. (English summary)

— (*with* De Nicolao, Giuseppe; Scattolini, Riccardo) On the stabilization of nonlinear discrete-time systems with output feedback. (English summary) **2005g:93106**

(Makoudi, Meryem) *see* **de Mathelin, Michel F.**

Malabre, Michel *see* **Torres-Muñoz, Jorge Antonio**

Mao, Wei-Jie Robust stabilization of uncertain time-varying discrete systems and comments on: "An improved approach for constrained robust model predictive control" [Automatica J. IFAC **38** (2002), no. 8, 1183–1189; MR2133479] by F. A. Cuzzola, J. C. Geromel and M. Morari. (English summary)

Marchand, Nicolas (*with* Alamir, Mazen) Discontinuous exponential stabilization of chained form systems. (English summary)

Marino, Riccardo (*with* Santosuosso, G. L.; Tomei, Patrizio) Robust adaptive compensation of biased sinusoidal disturbances with unknown frequency. (English summary)

— *see also* **Damm, Gilney et al., 2005e:93141**

de Mathelin, Michel F. Comments on: "A robust model reference adaptive control for non-minimum phase systems with unknown or time-varying delay" [Automatica J. IFAC **36** (2000), no. 7, 1057–1065; MR1829704] by M. Makoudi and L. Radouane. (English summary)

Matyukhin, V. I. Stabilization of the motions of a descent vehicle in the upper layers of the atmosphere. (Russian. Russian summary) **2005f:93150**

Michiels, Wim *see* **Kharitonov, Vladimir L. et al., 2005g:93104**

(Morari, Manfred) *see* **Mao, Wei-Jie**

Moreno, Jaime A. *see* **Kharitonov, Vladimir L. et al., 2005g:93104**

Moya, Paloma *see* **Panteley, Elena et al., 2005k:93205**

Ngamroo, Issarachai (*with* Dechanupaprittha, Sanchai) Robust decentralized design of power system stabilizers taking into consideration system uncertainties. (English summary) **2005h:93152**

Niculescu, Silviu-Iulian *see* **Kharitonov, Vladimir L. et al., 2005g:93104**

Nijmeijer, Henk *see* **Lizárraga, David A. et al., 2005e:93143**

Ortega, Romeo *see* **Karagiannis, Dimitrios et al., 2005k:93202** *and* **Panteley, Elena et al., 2005k:93205**

Pang, Sulin (*with* Huang, Jie[1]; Bai, Yuanhuai) Robust output regulation of singular nonlinear systems via a nonlinear internal model. (English summary)

Panteley, Elena (*with* Ortega, Romeo; Moya, Paloma) Overcoming the detectability obstacle in certainty equivalence adaptive control. (English summary) **2005k:93205**

Partington, Jonathan R. *see* **Bonnet, Catherine, 2005e:93140**

Passino, Kevin M. *see* **Diao, Yixin**

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Pradin, Bernard *see* **Garcia, Germain et al.**

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Qin, Yi *see* **Guan, Zhi Hong et al.**

de Queiroz, Marcio Santos *see* **Xian, Bin et al., 2005c:93094**

(Radouane, Larbi) *see* **de Mathelin, Michel F.**

Reinschke, Johannes (*with* Smith, Malcolm C.) Designing robustly stabilising controllers for LTI spatially distributed systems using coprime factor synthesis. (English summary) **2005k:93206**

Richard, Jean-Pierre *see* **Fridman, Emilia et al.**

Rohani, S. *see* **Liu, Xiao Ping[2] et al.**

Santosuosso, G. L. *see* **Marino, Riccardo et al.**

Scattolini, Riccardo *see* **Magni, Lalo et al., 2005g:93106**

de la Sen, Manuel Adaptive stabilization of continuous-time systems through a controllable modified estimation model. (English summary) **2005d:93129**

Seuret, Alexandre *see* **Fridman, Emilia et al.**

Shah, Sirish L. *see* **Li, Dongguang et al.**

Shi, Peng *see* **Hua, Changchun et al., 2005b:93147**

Shyu, Kuo-Kai *see* **Yan, Jun-Juh et al.**

Smaoui, Nejib Nonlinear boundary control of the generalized Burgers equation. (English summary) **2005e:93144**

Smith, Malcolm C. *see* **Reinschke, Johannes, 2005k:93206**

Sokolov, V. F. Iterative design of robust controllers under unknown bounded perturbation norms. (Russian. Russian summary) **2005m:93140**

Song, Chong Hui (*with* Chai, Tian You) A weighted predictive control algorithm with guaranteed stability. (Chinese. English and Chinese summaries)

Su, Chun-Yi *see* **Wang, Xing-Song et al., 2005m:93141**

Su, Hong Ye (*with* Xiang, Ji; Chu, Jian) New results of robust quadratically stabilizing control for uncertain linear time-delay systems. (English summary) **2005k:93207**

Sun, Dong Position synchronization of multiple motion axes with adaptive coupling control. (English summary)

Sun, Ji-tao (*with* Zhang, Yinping) Impulsive control of n-scroll grid attractors. (English summary) **2005f:93151**

Tang, Xidong (*with* Tao, Gang; Joshi, Suresh Meghashyam) Adaptive actuator failure compensation for parametric strict feedback systems and an aircraft application. (English summary)

Tao, Gang *see* **Tang, Xidong et al.**

Tarbouriech, Sophie *see* **Gomes da Silva, João Manoel, Jr., 2005h:93149** *and* **Garcia, Germain et al.**

Teo, Kok Lay *see* **Liu, Bin[6] et al., 2005g:93105** *and* **Xu, Hong Lei et al., 2005k:93208**

Tian, Yu Ping[1] *see* **Lin, Xiang Ze**

Tomei, Patrizio *see* **Marino, Riccardo et al.**

Torres-Muñoz, Jorge Antonio (*with* Malabre, Michel) Simultaneous model matching and disturbance rejection with stability by state feedback. (English summary)

Tunik, A. A. (*with* Galaguz, T. A.) Robust stabilization and nominal performance of the flight control system for small UAV. (English summary) **2005c:93093**

Unbehauen, H. *see* **Ye, Xu Dong, 2005a:93145**

Venugopal, Ravinder *see* **Akhtar, Suhail et al., 2005f:93144**

Vidyasagar, M. Randomized algorithms for robust controller synthesis using statistical learning theory. (English summary)

Wan, Sheng (*with* Huang, Biao) Robust performance assessment of feedback control systems. (English summary)

Wang, Qiang De (*with* Jing, Yuan Wei; Zhang, Si Ying) Global adaptive output tracking control of a class of nonlinear systems. (Chinese. English and Chinese summaries)

Wang, Qing-Guo *see* **Lin, Chong et al., 2005i:93076**

Wang, Xing-Song (*with* Su, Chun-Yi; Hong, Henry) Robust adaptive control of a class of nonlinear systems with unknown dead-zone. (English summary) **2005m:93141**

Wen, J. Y. *see* **Wu, Qing-Hua et al., 2005e:93145**

Wen, John T. *see* **Fan, Xingzhe et al., 2005b:93145**

Wo, Song Lin (*with* Zou, Yun) Decentralized robust stabilization for singular large scale systems with parameter uncertainty. (Chinese. English and Chinese summaries)

Wu, Qing-Hua (*with* Xu, Li[1]; Anazawa, Yoshihisa) On the necessary solvability conditions of parametric robust stabilization problem. (Chinese. English and Chinese summaries)

— (*with* Jiang, Lin; Wen, J. Y.) Decentralized adaptive control of interconnected non-linear systems using high gain observer. (English summary) **2005e:93145**

Wu, Zhao Jing (*with* Xie, Xue Jun; Jing, Yuan Wei; Zhang, Si Ying) Robust decentralized adaptive stabilization for large-scale systems with dynamic and static interconnections. (Chinese. English and Chinese summaries)

— (*with* Xie, Xue Jun; Zhang, Si Ying) Robust decentralized adaptive stabilization for a class of interconnected systems with unmodelled dynamics. (English summary) **2005b:93148**

— (*with* Xie, Xue Jun; Zhang, Si Ying) Robust decentralized adaptive stabilization for a class of interconnected systems. (English summary) **2005f:93152**

Xian, Bin (*with* de Queiroz, Marcio Santos; Dawson, Darren M.) A continuous control mechanism for uncertain nonlinear systems. **2005c:93094**

Xiang, Ji *see* **Su, Hong Ye et al., 2005k:93207**
Xie, Xue Jun *see* **Wu, Zhao Jing et al., 2005b:93148** *and* **2005f:93152**
Xu, Cheng-Zhong[1] (*with* Feng, De Xing) Robust integral stabilization of regular linear systems. (English summary) **2005m:93142**
Xu, Hong Lei (*with* Liu, Xin Zhi) Impulsive robust stabilization of Chen's chaotic system. (Chinese. English and Chinese summaries)
— (*with* Liu, Xin Zhi; Teo, Kok Lay) Robust H_∞ stabilisation with definite attenuance of an uncertain impulsive switched system. (English summary) **2005k:93208**
Xu, Li[1] *see* **Wu, Qing-Hua et al.**
Xu, Sheng Yuan *see* **Lam, James et al., 2005f:93149**
Xu, Wen Li[1] *see* **Jiang, Xie Fu**
Yan, Jun-Juh (*with* Shyu, Kuo-Kai; Lin, Jui-Sheng) Adaptive variable structure control for uncertain chaotic systems containing dead-zone nonlinearity. (English summary)
Yang, Bo[7] (*with* Lin, Wei[2]) Robust output feedback stabilization of uncertain nonlinear systems with uncontrollable and unobservable linearization. (English summary) **2005k:93209**
Yang, Y. R. *see* **Cao, Deng Qing et al., 2005f:93145**
Yassen, M. T. Feedback and adaptive synchronization of chaotic Lü system. (English summary)
Ye, Xu Dong (*with* Unbehauen, H.) Global adaptive stabilization for a class of feedforward nonlinear systems. (English summary) **2005a:93145**
Yu, Jen-te A convergent algorithm for computing stabilizing static output feedback gains. (English summary)
Yu, Xinghuo *see* **Guan, Zhi Hong et al.**
Yue, Dong Robust stabilization of uncertain systems with unknown input delay. (English summary)
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Zhang, Ji-Feng *see* **Liu, Yun-Gang, 2005k:93204** *and* **2005m:93139**
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Zhang, Yinping *see* **Sun, Ji-tao, 2005f:93151**
Zhao, Sheng Zhi (*with* Jiang, Xiao Yan) Stabilization of a class of nonlinear switched systems. (Chinese. English and Chinese summaries)
Zhou, Jin[1] *see* **Chen, Guanrong et al., 2005m:93138**
Zhou, Shao Sheng (*with* Li, Tao[4]) Robust stabilization for delayed discrete-time fuzzy systems via basis-dependent Lyapunov-Krasovskii function. (English summary)
Zou, Yun *see* **Lam, James et al., 2005f:93149** *and* **Wo, Song Lin**

Items with secondary classifications in 93D21

Abdel Fattah, Hossam A. (*with* Loparo, Kenneth A.) Passivity-based torque and flux tracking for induction motors with magnetic saturation. (English summary)
Abrahamsen, Rune B. *see* **Niemann, Hans Henrik et al., 2005b:93135**
Akella, Maruthi R. (*with* Subbarao, Kamesh) A novel parameter projection mechanism for smooth and stable adaptive control. (English summary) **2005f:93088**
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Benlemkadem, A. *see* **Mesquine, Fouad et al., 2005e:93066**
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Chen, Bing[2] (*with* Zhou, Yu Cheng) Delay-dependent stability analysis and stabilization of T-S fuzzy models with time-delay. (Chinese. English and Chinese summaries)
— (*with* Liu, Xiao Ping[2]) Reliable control design of fuzzy dynamic systems with time-varying delay. (English summary) **2005b:93090**
Chen, Di-lan (*with* Sun, Ji-tao) Impulsive control of a advertising system. (English and Chinese summaries) **2005k:90061**
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Chen, Jing *see* **Yi, Yang et al.**
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Cheng, Dai Zhan *see* **Mu, Xiao Wu et al., 2005a:93081**
Cherepova, T. I. (*with* Shubladze, A. M.) Systems, optimal with respect to the degree of stability, for the control of plants with an "unstable" numerator in the transfer function. (Russian. Russian summary) **2005f:93074**
Chisci, L. (*with* Rossiter, J. A.; Zappa, Giovanni) Systems with persistent disturbances: predictive control with restricted constraints. (English summary)
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Costa, Ramon R. (*with* Hsu, Liu; Imai, Alvaro K.; Kokotović, Petar V.) Lyapunov-based adaptive control of MIMO systems. (English summary)
Dahleh, Munther A. *see* **Elia, Nicola et al., 2005i:93030**
Darbha, Swaroop On the synthesis of controllers for continuous time LTI systems that achieve a non-negative impulse response. (English summary)
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Diakonos, Fotis K. *see* **Pingel, Detlef et al., 2005k:37193**
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Fidan, Barış (*with* Zhang, Youping; Ioannou, Petros A.) Adaptive control of a class of slowly time varying systems with modeling uncertainties. (English summary) **2005m:93084**
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— *see also* **Wang, Jun**[8] **et al., 2005e:93164**
Kelemen, Matei (*with* Bensoussan, David) On the design, robustness, implementation and use of quasi-linear feedback compensators. (English summary) **2005d:93063**
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Krishnamurthy, Prashanth (*with* Khorrami, Farshad) A high-gain scaling technique for adaptive output feedback control of feedforward systems. (English summary)
Lagoa, Constantino M. A convex parametrization of risk-adjusted stabilizing controllers. (English summary)

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Lam, James *see* **Gao, Huijun et al., 2005j:93064**
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Liu, Xiao Ping[2] *see* **Chen, Bing[2], 2005b:93090**
Liu, Ya (*with* Hu, Shou Song) Fuzzy robust tracking control for uncertain nonlinear systems. (Chinese. English and Chinese summaries)
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Muravnik, A. B. On the stabilization of solutions of some singular quasilinear parabolic problems. (Russian. Russian summary) **2005g:35157**
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Park, Gwi-Tae *see* **Park, Jang-Hyun et al.**
Park, Jang-Hyun (*with* Park, Gwi-Tae; Kim, Seong-Hwan; Moon, Chae-Joo) Output-feedback control of uncertain nonlinear systems using a self-structuring adaptive fuzzy observer. (English summary)
Patel, Vijay V. (*with* Deodhare, Girish; Viswanath, Talasila) Some applications of randomized algorithms for control system design. (English summary)
Peaucelle, Dimitri (*with* Arzelier, Denis) Ellipsoidal sets for resilient and robust static output-feedback. (English summary) **2005m:93044**
Phung, Kim Dang Stabilization of the incompressible 2D Euler equations in a simply connected domain utilizing the Lorentz force. (English summary) **2005i:76126**
Pingel, Detlef (*with* Schmelcher, Peter; Diakonos, Fotis K.) Stability transformation: a tool to solve nonlinear problems. (English summary) **2005k:37193**
Pisano, Alessandro *see* **Bartolini, Giorgio et al., 2005d:93028**
Pradhan, Nilesh *see* **Taware, Avinash et al.**
Qi, Li *see* **Zhang, You et al., 2005e:93053**
(de Queiroz, Marcio Santos) *see* **Optimal control, stabilization and nonsmooth analysis, 2005b:49001**
Robinson, James Cooper *see* **Caraballo Garrido, Tomás, 2005e:60125**
Roschke, P. N. *see* **Wang, Sheng-Guo et al., 2005h:93053**
Rossiter, J. A. *see* **Chisci, L. et al.**
Roup, Alexander V. (*with* Bernstein, Dennis S.) Adaptive stabilization of linear second-order systems with bounded time-varying coefficients. (English summary) **2005d:93079**
Rozenvasser, E. N. *see* **Lampe, Bernhard P., 2005f:93087**
Ruan, Rong Yao *see* **Yang, Chang Li et al.**
Ryan, Eugene P. *see* **Fliegner, T. et al.**
Safonov, Michael G. *see* **Mancera, Ricardo, 2005k:93152**
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Schmelcher, Peter *see* **Pingel, Detlef et al., 2005k:37193**
Seo, Jin Heon *see* **Son, Young I. et al., 2005b:93039**
Seshagiri, Sridhar (*with* Khalil, Hassan K.) Robust output regulation of minimum phase nonlinear systems using conditional servocompensators. (English summary) **2005k:93093**
Sezer, M. Erol (*with* Altunel, Haluk) Adaptive decentralized control of interconnected systems. (English summary) **2005a:93006**
Shen, Tie Long (*with* Mei, Shengwei; Lu, Qiang[1]; Hu, Wei[4]; Tamura, Katsutoshi) Adaptive nonlinear excitation control with L_2 disturbance attenuation for power systems. (English summary)
Shi, Yan *see* **Hua, Changchun et al., 2005h:93173**
Shim, Hyungbo *see* **Son, Young I. et al., 2005b:93039**
Shkolnikov, Ilya A. (*with* Shtessel′, Yu. B.) Tracking in a class of nonminimum-phase systems with nonlinear internal dynamics via sliding mode control using method of system center. (English summary)
Shpilevaya, O. Ya. Adaptive stabilization of systems with parametric uncertainty on the basis of the localization principle. (Russian. English, Russian and Ukrainian summaries)
Shtessel′, Yu. B. *see* **Shkolnikov, Ilya A.**
Shubladze, A. M. *see* **Cherepova, T. I., 2005f:93074**
Singh, Sahjendra N. *see* **Bhoir, Nilesh, 2005f:93089**
Son, Young I. (*with* Yang, J. W.; Jo, Nam H.; Shim, Hyungbo; Seo, Jin Heon) Feedback passivity approach to output feedback disturbance attenuation for uncertain nonlinear systems. (English summary) **2005b:93039**
Spurgeon, Sarah K. *see* **Yan, Xing Gang et al., 2005f:93031**
Stern, Ronald Jay *see* **Clarke, Francis H. et al., 2005a:93073**
Stoustrup, Jakob *see* **Niemann, Hans Henrik et al., 2005b:93135**
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Sun, Ji-tao *see* **Chen, Di-lan, 2005k:90061**
Tamura, Katsutoshi *see* **Shen, Tie Long et al.**
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Tao, Gang *see* **Taware, Avinash et al.**
Taware, Avinash (*with* Tao, Gang; Pradhan, Nilesh; Teolis, Carole) Friction compensation for a sandwich dynamic system. (English summary)
Teel, Andrew R. Discrete time receding horizon optimal control: is the stability robust? (*see* **2005b:49001**)
Teolis, Carole *see* **Taware, Avinash et al.**
Thuto, Mosalagae *see* **Ilchmann, Achim et al., 2005d:93072**
Tomizuka, Masayoshi *see* **Pagilla, Prabhakar R.** *and* **Yao, Bin**
Townley, Stuart *see* **Ilchmann, Achim et al., 2005d:93072**
Ugrinovskiĭ, V. A. Randomized algorithms for robust stability and guaranteed cost control of stochastic jump parameter systems with uncertain switching policies. (English summary) **2005k:93166**
Ukhobotov, V. I. Synthesis of guaranteed control based on approximating scheme. (English summary) **2005a:93069**
Unbehauen, H. *see* **Filatov, N. M., 2005a:93004**
Usai, Elio *see* **Bartolini, Giorgio et al., 2005d:93028**
Viswanath, Talasila *see* **Patel, Vijay V. et al.**
Voronov, K. V. *see* **Nikiforov, V. O.**
Wan, Bai Wu *see* **Gong, Jianqin et al., 2005f:93066**
Wang, Chang Hong[1] *see* **Gao, Huijun et al., 2005j:93064**
Wang, Jiang (*with* Guo-Dong, Qiao; Bin, Deng) Observer-based robust adaptive variable universe fuzzy control for chaotic system. (English summary) **2005d:93082**
Wang, Jun[8] (*with* Xi, Hong Sheng; Ji, Hai Bo; Kang, Yu) Robust adaptive control for a class of stochastic nonlinear systems based on gradient algorithms. (Chinese. English and Chinese summaries) **2005e:93164**
— *see also* Kang, Yu et al.
Wang, Qiang De (*with* Jing, Yuan Wei; Zhang, Si Ying) Adaptive practical output tracking of a class of nonlinear systems. (English summary) **2005e:93087**
Wang, Sheng-Guo (*with* Yeh, Hsiang; Roschke, P. N.) Robust active control for structural systems with structured uncertainties. (English summary) **2005h:93053**
Wang, Xin Hua[1] (*with* Chen, Zeng Qiang; Yuan, Zhu Zhi) Centre-manifold-based sliding mode output tracking for non-minimum nonlinear systems. (English summary) **2005i:93022**
Wang, Zhong Sheng *see* **He, Han Lin[2] et al., 2005d:93074**
(Wolenski, Peter R.) *see* **Optimal control, stabilization and nonsmooth analysis, 2005b:49001**
Wu, Huai-Ning (*with* Cai, Kai-Yuan) H_2 guaranteed cost fuzzy control for uncertain nonlinear systems via linear matrix inequalities. (English summary) **2005f:93101**
Wu, Jun (*with* Li, Tie Min; Tang, Xiao Qiang) Robust trajectory tracking control of a planar parallel mechanism. (Chinese. English and Chinese summaries)
Xi, Hong Sheng *see* **Wang, Jun[8] et al., 2005e:93164** *and* **Kang, Yu et al.**
Xu, Hui Ling (*with* Zou, Yun) A matrix inequalities approach to the robust stabilization for uncertain 2-D singular Roesser models. (Chinese. English and Chinese summaries)
Xu, Jian-Xin *see* **Guan, Zhi Hong et al., 2005k:93160**
Xu, Li[2] (*with* Yao, Bin) Output feedback adaptive robust precision motion control of linear motors. (English summary)
Xu, Sheng Yuan *see* **Gao, Huijun et al., 2005j:93064**
Xu, Wen Li[1] *see* **Jiang, Xie Fu**
Yakubovich, V. A. (*with* Leonov, G. A.; Gelig, A. Kh.) ★ Stability of stationary sets in control systems with discontinuous nonlinearities. **2005i:93004**
Yan, Xing Gang (*with* Edwards, Christopher; Spurgeon, Sarah K.) Output feedback sliding mode control for non-minimum phase systems with non-linear disturbances. (English summary) **2005f:93031**
Yang, Chang Li (*with* Ruan, Rong Yao; Gong, Miao Kun) Design and analysis of robust adaptive state-feedback controller for a class of uncertain nonlinear systems. (Chinese. English and Chinese summaries)
Yang, J. W. *see* **Son, Young I. et al., 2005b:93039**
Yang, Yansheng Direct robust adaptive fuzzy control (DRAFC) for uncertain nonlinear systems using small gain theorem. (English summary)

Yaniv, Oded (*with* Nagurka, M.) Design of PID controllers satisfying gain margin and sensitivity constraints on a set of plants. (English summary)
Yao, Bin (*with* Tomizuka, Masayoshi) Adaptive robust control of MIMO nonlinear systems in semi-strict feedback forms. (English summary)
— *see also* **Xu, Li**[2]
Yeh, Hsiang *see* **Wang, Sheng-Guo et al., 2005h:93053**
Yi, Yang (*with* Zhang, Tian Ping[1]; Chen, Jing) Robust adaptive fuzzy control for a class of certain nonlinear systems. (Chinese. English and Chinese summaries)
Young, Peter M. *see* **Elia, Nicola et al., 2005i:93030**
Yu, Ji Min *see* **Mu, Xiao Wu et al., 2005a:93081**
Yuan, Zhu Zhi *see* **Wang, Xin Hua**[1] **et al., 2005i:93022**
Zappa, Giovanni *see* **Chisci, L. et al.**
Zhang, Si Ying *see* **Zhang, You et al., 2005e:93053** *and* **Wang, Qiang De et al., 2005e:93087**
Zhang, Tian Ping[1] *see* **Yi, Yang et al.**
Zhang, You (*with* Qi, Li; Jing, Yuan Wei; Zhang, Si Ying) Delay-dependent H_∞ control of linear neutral delay systems. (Chinese. English and Chinese summaries) **2005e:93053**
Zhang, Youping *see* **Fidan, Barış et al., 2005m:93084**
Zhou, Yu Cheng *see* **Chen, Bing**[2]
Zou, Yun *see* **Xu, Hui Ling**

Items listed otherwise than by author

Baton Rouge, LA ★ Optimal control, stabilization and nonsmooth analysis. **2005b:49001**
Lecture Notes in Control and Information Sciences ★ Optimal control, stabilization and nonsmooth analysis. **2005b:49001**
Optimal control, stabilization and nonsmooth analysis ★ Optimal control, stabilization and nonsmooth analysis. **2005b:49001**

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Agafonov, P. A. (*with* Chestnov, V. N.) Simultaneous assurance of input and output stability margins for a multivariate system, based on the H_∞-approach. (Russian. Russian summary) **2005f:93153**
Angeli, David An almost global notion of input-to-state stability. (English summary) **2005b:93150**
— (*with* Ingalls, Brian P.; Sontag, Eduardo D.; Wang, Yuan[2]) Separation principles for input-output and integral-input-to-state stability. (English summary) **2005k:93210**
Bondarko, V. A. (*with* Fradkov, A. L.) Necessary and sufficient conditions for passivability of linear distributed systems. (Russian. Russian summary) **2005i:93077**
Cherepova, T. I. (*with* Shubladze, A. M.) Systems, optimal with respect to the degree of stability, for the control of aperiodic plants. (Russian. Russian summary) **2005d:93130**
Chestnov, V. N. *see* **Agafonov, P. A., 2005f:93153**
Dai, Guan-Zhong *see* **Ye, Hua-Wen et al.**
Edwards, Christopher *see* **Lai, Nai One et al., 2005b:93151**
Fradkov, A. L. *see* **Bondarko, V. A., 2005i:93077**
Golubev, A. E. (*with* Johanson, R.; Robertson, A.; Tkachev, S. B.) Output stabilization for nonminimum-phase systems using observer backstepping. (English summary)
Ingalls, Brian P. *see* **Karafyllis, Iasson, 2005j:93073** *and* **Angeli, David et al., 2005k:93210**
Johanson, R. *see* **Golubev, A. E. et al.**
Karafyllis, Iasson The non-uniform in time small-gain theorem for a wide class of control systems with outputs. (English summary) **2005j:93073**
Kotta, Ülle *see* **Wang, Jihong et al.**
Lai, Nai One (*with* Edwards, Christopher; Spurgeon, Sarah K.) On discrete time output feedback min-max controllers. (English summary) **2005b:93151**
Laila, Dina Shona (*with* Nešić, Dragan) Changing supply rates for input-output to state stable discrete-time nonlinear systems with applications. (English summary) **2005k:93211**
Latushkin, Yu. D. (*with* Randolph, Timothy; Schnaubelt, Roland) Regularization and frequency-domain stability of well-posed systems. (English summary) **2005m:93143**
Liberzon, Daniel Output-input stability implies feedback stabilization. (English summary) **2005f:93154**
Mangan, Stephen *see* **Wang, Jihong et al.**
Martin, Philippe Pierre (*with* Rouchon, Pierre[1]; Rudolph, Joachim) Invariant tracking. (English summary) **2005d:93131**
Nešić, Dragan (*with* Teel, Andrew R.) Input-output stability properties of networked control systems. (English summary) **2005k:93212**
— *see also* **Laila, Dina Shona, 2005k:93211**
Park, Juhyun[1] Dynamic output guaranteed cost controller for neutral systems with input delay. (English summary) **2005f:93155**
Randolph, Timothy *see* **Latushkin, Yu. D. et al., 2005m:93143**
Robertson, A. *see* **Golubev, A. E. et al.**
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Sontag, Eduardo D. *see* **Angeli, David et al., 2005k:93210**
Spurgeon, Sarah K. *see* **Lai, Nai One et al., 2005b:93151**
Tanner, Herbert G. ISS properties of nonholonomic vehicles. (English summary) **2005f:93156**
Teel, Andrew R. *see* **Nešić, Dragan, 2005k:93212**
Tkachev, S. B. *see* **Golubev, A. E. et al.**
Wang, Hong[5] *see* **Ye, Hua-Wen et al.**
Wang, Jihong (*with* Kotta, Ülle; Mangan, Stephen; Wei, Jianlin) Tracking control of nonlinear pneumatic systems using input/output linearization by state feedback. (English summary)
Wang, Yuan[2] *see* **Angeli, David et al., 2005k:93210**
Wei, Jianlin *see* **Wang, Jihong et al.**
Ye, Hua-Wen (*with* Dai, Guan-Zhong; Wang, Hong[5]) The application of the control Lyapunov function to stabilization designs. (English and Chinese summaries)

Items with secondary classifications in 93D25

Arcak, Murat *see* **Fan, Xingzhe et al., 2005b:93145**
Baram, Reza Mahmoodi *see* **Kouvaritakis, Basil et al., 2005d:93090**
Beard, Randal W. *see* **Curtis, J. Willard, 2005e:93123**
Bhoir, Nilesh (*with* Singh, Sahjendra N.) Output feedback modular adaptive control of a nonlinear prototypical wing section. (English summary) **2005f:93089**
Bloch, Gerard *see* **Millerioux, Gilles et al., 2005b:93099**
Bonnet, Catherine *see* **Partington, Jonathan R., 2005d:93055**
Cannon, Mark *see* **Kouvaritakis, Basil et al., 2005d:93090**
Chaoui, F. Z. *see* **Giri, F. et al., 2005b:93146**
Chater, A. *see* **Giri, F. et al., 2005b:93146**
Chu, Jian *see* **Xiang, Ji et al.**
Curtis, J. Willard (*with* Beard, Randal W.) A complete parameterization of clf-based input-to-state stabilizing control laws. (English summary) **2005e:93123**
Daafouz, Jamal *see* **Millerioux, Gilles et al., 2005b:93099**
Damm, Gilney (*with* Marino, Riccardo; Lamnabhi-Lagarrigue, Françoise) Adaptive nonlinear output feedback for transient stabilization and voltage regulation of power generators with unknown parameters. (English summary) **2005e:93141**
Delli Priscoli, Francesco Output regulation with nonlinear internal models. (English summary) **2005f:93083**
Fan, Xingzhe (*with* Arcak, Murat; Wen, John T.) Robustness of network flow control against disturbances and time-delay. (English summary) **2005b:93145**
Giri, F. (*with* Chaoui, F. Z.; Chater, A.) Adaptive stabilization of input-saturated plants with known unstable poles. (English summary) **2005b:93146**
Hammer, Jacob Tracking and approximate model matching for non-linear systems. (English summary) **2005k:93006**
Jacob, Birgit What is the better signal space for discrete-time systems: $l_2(\mathbb{Z})$ or $l_2(\mathbb{N}_0)$? (English summary) **2005k:93180**
Ji, Hai Bo *see* **Wang, Jun**[8] **et al., 2005e:93164**
Jiang, Zhong-Ping *see* **Praly, Laurent, 2005h:93141**
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Karas, A. *see* **Kouvaritakis, Basil et al., 2005d:93090**
Khorrami, Farshad *see* **Krishnamurthy, Prashanth, 2005k:93119**
Koumboulis, F. N. (*with* Koussiouris, T. G.; Skarpetis, M. G.) Robust Morgan's problem. (English summary) **2005a:93128**
Koussiouris, T. G. *see* **Koumboulis, F. N. et al., 2005a:93128**
Kouvaritakis, Basil (*with* Cannon, Mark; Rohal-Ilkiv, B.; Karas, A.; Baram, Reza Mahmoodi) Constrained predictive control of linear distributed parameter systems. (English summary) **2005d:93090**
Krishnamurthy, Prashanth (*with* Khorrami, Farshad) Dynamic high-gain scaling: state and output feedback with application to systems with ISS appended dynamics driven by all states. (English summary) **2005k:93119**
Kurdyukov, A. P. (*with* Maksimov, E. A.) Robust stability of linear discrete time-invariant systems with uncertainty bounded in the anisotropic norm. (Russian. Russian summary) **2005k:93162**
Lam, James *see* **Xu, Sheng Yuan, 2005f:93174**
Lamnabhi-Lagarrigue, Françoise *see* **Damm, Gilney et al., 2005e:93141**
Larin, Vladimir B. Stabilization of a system of output feedback. (Russian. English, Russian and Ukrainian summaries) **2005h:93136**
Latushkin, Yu. D. (*with* Räbiger, Frank) Operator valued Fourier multipliers and stability of strongly continuous semigroups. (English summary) **2005m:42022**
Lee, Suk G. *see* **Park, Juhyun**[1] **et al., 2005f:93141**
Lhous, M. *see* **Rachik, Mostafa et al., 2005e:93094**
Li, Chun Tao (*with* Tan, Yong Hong) Observer-based adaptive output feedback control of systems preceded by unknown hysteresis. (Chinese. English and Chinese summaries)
Li, Hong Fei (*with* Luo, Xue Bo) Design of feedback controller for neutral linear systems based on observational state. (Chinese. English and Chinese summaries)
Lin, Xiang Ze (*with* Tian, Yu Ping[1]) Invariance principle and state feedback stabilization of invariant sets of switched systems. (Chinese. English and Chinese summaries)
Liu, Yun-Gang (*with* Zhang, Ji-Feng) Reduced-order observer-based control design for nonlinear stochastic systems. (English summary) **2005a:93154**
Luo, Xue Bo *see* **Li, Hong Fei**
Ma, Xiao Ping *see* **Wang, Hong Jun**[2]
Maksimov, E. A. *see* **Kurdyukov, A. P., 2005k:93162**
Marino, Riccardo *see* **Damm, Gilney et al., 2005e:93141**
Millerioux, Gilles (*with* Rosier, Lionel; Bloch, Gerard; Daafouz, Jamal) Bounded state reconstruction error for LPV systems with estimated parameters. (English summary) **2005b:93099**
Park, Juhyun[1] (*with* Jung, Ho Y.; Park, Jung I.; Lee, Suk G.) Decentralized dynamic output feedback controller design for guaranteed cost stabilization of large-scale discrete-delay systems. (English summary) **2005f:93141**
Park, Jung I. *see* **Park, Juhyun**[1] **et al., 2005f:93141**
Partington, Jonathan R. (*with* Bonnet, Catherine) H_∞ and BIBO stabilization of delay systems of neutral type. (English summary) **2005d:93055**
Praly, Laurent (*with* Jiang, Zhong-Ping) Linear output feedback with dynamic high gain for nonlinear systems. (English summary) **2005h:93141**
Quadrat, A. On a general structure of the stabilizing controllers based on stable range. (English summary) **2005b:93137**
Räbiger, Frank *see* **Latushkin, Yu. D., 2005m:42022**
Rachik, Mostafa (*with* Lhous, M.; Tridane, A.) On the improvement to linear discrete system stability: the maximal set of the F-admissible initial states. (English summary) **2005e:93094**
Rohal-Ilkiv, B. *see* **Kouvaritakis, Basil et al., 2005d:93090**
Rosier, Lionel *see* **Millerioux, Gilles et al., 2005b:93099**
Seo, Jin Heon *see* **Son, Young I. et al., 2005b:93039**
Shim, Hyungbo *see* **Son, Young I. et al., 2005b:93039**
Singh, Sahjendra N. *see* **Bhoir, Nilesh, 2005f:93089**
Skarpetis, M. G. *see* **Koumboulis, F. N. et al., 2005a:93128**

Son, Young I. (*with* Yang, J. W.; Jo, Nam H.; Shim, Hyungbo; Seo, Jin Heon) Feedback passivity approach to output feedback disturbance attenuation for uncertain nonlinear systems. (English summary) **2005b:93039**
Su, Hong Ye *see* **Xiang, Ji et al.**
Tan, Yong Hong *see* **Li, Chun Tao**
Tian, Yu Ping[1] *see* **Lin, Xiang Ze**
Tridane, A. *see* **Rachik, Mostafa et al., 2005e:93094**
Wang, Hong Jun[2] (*with* Ma, Xiao Ping) Decentralized variable-structure control based on state observer for uncertain nonlinear composite systems. (Chinese. English and Chinese summaries)
Wang, Jun[8] (*with* Xi, Hong Sheng; Ji, Hai Bo; Kang, Yu) Robust adaptive control for a class of stochastic nonlinear systems based on gradient algorithms. (Chinese. English and Chinese summaries) **2005e:93164**
Wen, John T. *see* **Fan, Xingzhe et al., 2005b:93145**
Xi, Hong Sheng *see* **Wang, Jun[8] et al., 2005e:93164**
Xiang, Ji (*with* Zhang, Xiao Yu; Su, Hong Ye; Chu, Jian) Static output feedback stabilization based on structured Lyapunov matrix. (Chinese. English and Chinese summaries)
Xu, Sheng Yuan (*with* Lam, James) Robust output feedback stabilization of uncertain discrete time-delay stochastic systems with multiplicative noise. (English summary) **2005f:93174**
Yang, J. W. *see* **Son, Young I. et al., 2005b:93039**
Yu, Jen-te A new static output feedback approach to the suboptimal mixed H_2/H_∞ problem. (English summary) **2005d:93056**
Zhang, Ji-Feng *see* **Liu, Yun-Gang, 2005a:93154**
Zhang, Xiao Yu *see* **Xiang, Ji et al.**
Zuber, I. E. Synthesis of a stabilizing output control for a class of nonlinear systems with retarded argument. (Russian. English and Russian summaries) **2005e:93138**

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Antonovskaya, O. G. Construction of Lyapunov quadratic functions that satisfy given constraints for continuous and discrete dynamical systems. (Russian) **2005d:93132**
Arcak, Murat (*with* Teel, Andrew R.) Input-to-state stability for a class of Lurie systems. (English summary)
Bliman, Pierre-Alexandre Absolute stability criteria with prescribed decay rate for finite-dimensional and delay systems. (English summary)
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He, Yong[3] *see* **Wu, Min[2] et al., 2005g:93107**
Hu, Ting Shu (*with* Lin, Zongli) Properties of the composite quadratic Lyapunov functions. (English summary) **2005c:93095**
Konigsberg, Zvi Retchkiman To become unstable can be a good dynamical property! (English summary)
Lemmon, Michael D. *see* **Ling, Qiang, 2005k:93213**
Liberzon, Daniel (*with* Tempo, Roberto) Common Lyapunov functions and gradient algorithms. (English summary) **2005e:93146**
Lin, Zongli *see* **Hu, Ting Shu, 2005c:93095**
Ling, Qiang (*with* Lemmon, Michael D.) Stability of quantized control systems under dynamic bit assignment. (English summary) **2005k:93213**
Loría, Antonio (*with* Panteley, Elena; Popović, Dobrivoje; Teel, Andrew R.) A nested Matrosov theorem and persistency of excitation for uniform convergence in stable nonautonomous systems. (English summary) **2005i:93078**
Mahmoud, Magdi S. New results on linear parameter-varying time-delay systems. (English summary) **2005i:93079**
Nešić, Dragan (*with* Teel, Andrew R.) Matrosov theorem for parameterized families of discrete-time systems. (English summary)
Panteley, Elena *see* **Loría, Antonio et al., 2005i:93078**
Popović, Dobrivoje *see* **Loría, Antonio et al., 2005i:93078**
She, Jin-Hua *see* **Wu, Min[2] et al., 2005g:93107**
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Wu, Min[2] (*with* He, Yong[3]; She, Jin-Hua) On absolute stability of Lur'e control systems with multiple non-linearities using linear matrix inequalities. (English summary) **2005g:93107**

Items with secondary classifications in 93D30

Aissa, N. (*with* Hamroun, Djamila) Stabilization of a wave-wave system. (English summary) **2005b:93078**
Alazard, D. *see* **Pellanda, P. C. et al., 2005h:93052**
Apkarian, Pierre *see* **Pellanda, P. C. et al., 2005h:93052**
Balint, A. M. *see* **Kaslik, E. et al., 2005g:93083** *and* **2005g:93084**
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Chen, Chao Tian *see* **Sun, Shui Ling**
Chen, Jenq-Der Robust control for uncertain neutral systems with time-delays in state and control input via LMI and GAs. (English summary)
Chen, Xiao Xing Global stability of periodic solutions for a discrete time nonautonomous ratio-dependent predator-prey system. (Chinese. English and Chinese summaries)
Chentouf, Boumediène Dynamic boundary controls of a rotating body-beam system with time-varying angular velocity. **2005h:93130**
Clarke, Francis H. (*with* Ledyaev, Yu. S.; Stern, Ronald Jay) Proximal analysis and feedback construction. (English summary) **2005a:93073**
Curtis, J. Willard (*with* Beard, Randal W.) Satisficing: a new approach to constructive nonlinear control. (English summary) **2005c:93067**
Dai, Guan-Zhong *see* **Ye, Hua-Wen et al.**
Delli Priscoli, Francesco Output regulation with nonlinear internal models. (English summary) **2005f:93083**
Dey, Sitansu *see* **Ray, Goshaidas, 2005f:93030**
Ding, Juan (*with* Yao, Hong Xing) Gain control of a kind of nonlinear chaotic finance system. (Chinese. English and Chinese summaries)
El-Gohary, Awad I. (*with* Tawfik, T. S.) Optimal control of the rotational motion of a rigid body using moving masses. (English summary) **2005a:70033**
Gao, Huijun (*with* Wang, Chang Hong[1]) Robust H_∞ filtering for uncertain discrete-time state-delayed systems: a parameter-dependent Lyapunov approach. (English summary) **2005c:93035**
Grigis, Alain *see* **Kaslik, E. et al., 2005g:93084**
Haddad, Wassim M. (*with* Hui, Qing; Chellaboina, Vijaya-Sekhar; Nersesov, Sergey G.) Vector dissipativity theory for discrete-time large-scale nonlinear dynamical systems. **2005a:93008**
— (*with* Chellaboina, Vijaya-Sekhar; Nersesov, Sergey G.) Vector dissipativity theory and stability of feedback interconnections for large-scale non-linear dynamical systems. (English summary) **2005g:93006**
— (*with* Chellaboina, Vijaya-Sekhar; Hui, Qing; Nersesov, Sergey G.) Vector dissipativity theory for large-scale impulsive dynamical systems. (English summary) **2005h:93117**
Hamroun, Djamila *see* **Aissa, N., 2005b:93078**
Ho, Daniel W. C. *see* **Yue, Dong et al., 2005f:93130**
Hui, Qing *see* **Haddad, Wassim M. et al., 2005a:93008** *and* **2005h:93117**
Kaslik, E. (*with* Balint, A. M.; Birauas, S.; Balint, Ş t.) On the controllability of the roll rate of the ALFLEX reentry vehicle. (English summary) **2005g:93083**
— (*with* Balint, A. M.; Grigis, Alain; Balint, Ş t.) The controllability of the "path capture" and "steady descent" flight of ALFLEX. (English summary) **2005g:93084**
Kellett, Christopher M. (*with* Teel, Andrew R.) Discrete-time asymptotic controllability implies smooth control-Lyapunov function. (English summary) **2005d:93105**
Konigsberg, Zvi Retchkiman Stability analysis of difference equations and its application to discrete event systems modeled with Petri nets. (English summary) **2005g:39012**
Krstić, Miroslav Feedback linearizability and explicit integrator forwarding controllers for classes of feedforward systems. (English summary) **2005e:93072**
Lam, James *see* **Yue, Dong et al., 2005f:93130**
Ledyaev, Yu. S. *see* **Clarke, Francis H. et al., 2005a:93073**
Luk'yanova, T. O. (*with* Martynyuk, A. A.) Hierarchical Lyapunov functions for stability analysis of discrete-time systems with applications to the neural networks. (English summary) **2005d:39070**
Martynyuk, A. A. *see* **Luk'yanova, T. O., 2005d:39070**
Matvīichuk, K. S. Technical stability of nonlinear three-dimensional dynamic states of continuous systems that interact with a fluid flow. (Ukrainian. English and Ukrainian summaries) **2005e:74026**
Mazenc, Frédéric (*with* Nešić, Dragan) Strong Lyapunov functions for systems satisfying the conditions of La Salle. (English summary) **2005b:34104**
Nersesov, Sergey G. *see* **Haddad, Wassim M. et al., 2005a:93008**; **2005g:93006** *and* **2005h:93117**
Nešić, Dragan (*with* Teel, Andrew R.) A framework for stabilization of nonlinear sampled-data systems based on their approximate discrete-time models. (English summary) **2005c:93056**
— *see also* **Mazenc, Frédéric, 2005b:34104**
Pellanda, P. C. (*with* Simões, A. M.; Apkarian, Pierre; Alazard, D.) Synthesis of missile gain-scheduled autopilots using an H_∞-LPV technique with piecewise continuously differentiable parameter-dependent Lyapunov functions. (English summary) **2005h:93052**
Popchev, Ivan *see* **Savov, Svetoslav, 2005e:93116**
Postlethwaite, Ian *see* **Turner, Matthew C., 2005f:93109**
Qu, Zhihua Global stabilization and convergence of nonlinear systems with uncertain exogenous dynamics. (English summary) **2005e:93114**
Radenkovic, Miloje (*with* Bose, Tamal) Global stability of adaptive IIR filters based on the output error method and parameter truncation. (English summary) **2005c:93100**
Ray, Goshaidas (*with* Dey, Sitansu) Design of reaching phase for variable structure controller based on SVD method. (English summary) **2005f:93030**
Sambandham, M. Method of vector Lyapunov-like functions and hybrid fuzzy differential systems. (English summary) **2005g:34110**
Savov, Svetoslav (*with* Popchev, Ivan) On the stability analysis of uncertain systems via parameter dependent Lyapunov function. (English and Bulgarian summaries) **2005e:93116**
Simões, A. M. *see* **Pellanda, P. C. et al., 2005h:93052**
Stern, Ronald Jay *see* **Clarke, Francis H. et al., 2005a:93073**
Sun, Mei[1] (*with* Tian, Li Xin) Inverse optimal control for a new chaotic system. (Chinese. English and Chinese summaries)
Sun, Shui Ling (*with* Chen, Chao Tian) Connective stability of family of nonlinear discrete large-scale systems. (Chinese. English and Chinese summaries)
Sun, Wen An (*with* Sun, Xi Ming; Zhao, Jun[2]) Asymptotic stability of linear switched systems with polytopic perturbations. (Chinese. English and Chinese summaries)
Sun, Xi Ming *see* **Sun, Wen An et al.**
Tawfik, T. S. *see* **El-Gohary, Awad I., 2005a:70033**
Teel, Andrew R. *see* **Nešić, Dragan, 2005c:93056** *and* **Kellett, Christopher M., 2005d:93105**
Tian, Li Xin *see* **Sun, Mei[1]**
Turner, Matthew C. (*with* Postlethwaite, Ian) Nonlinear regulation in constrained input discrete-time linear systems. (English summary) **2005f:93109**
Wang, Chang Hong[1] *see* **Gao, Huijun, 2005c:93035**
Wang, Hong[5] *see* **Ye, Hua-Wen et al.**
Wang, Yan Qun *see* **Xu, Hui et al.**
Xu, Hui (*with* Zhang, Meng Qiu; Wang, Yan Qun) Necessary and sufficient conditions for 4th-order absolute stability of some direct control systems. (Chinese. English and Chinese summaries)
Yao, Hong Xing *see* **Ding, Juan**
Yassen, M. T. Adaptive synchronization of Rossler and Lü systems with fully uncertain parameters. (English summary) **2005g:93099**
Ye, Hua-Wen (*with* Dai, Guan-Zhong; Wang, Hong[5]) The application of the control Lyapunov function to stabilization designs. (English and Chinese summaries)

Yue, Dong (*with* Lam, James; Ho, Daniel W. C.) Delay-dependent robust exponential stability of uncertain descriptor systems with time-varying delays. (English summary) **2005f:93130**
Zhang, Meng Qiu *see* **Xu, Hui et al.**
Zhao, Jun[2] *see* **Sun, Wen An et al.**

93D99 None of the above, but in this section

Items with secondary classifications in 93D99

Nicaise, Serge Stability and controllability of an abstract evolution equation of hyperbolic type and concrete applications. (English summary) **2005a:93024**
Tonkov, E. L. Uniform attainability and Lyapunov reducibility of bilinear control system. (English summary) **2005a:93013**

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Aliyu, M. D. S. Dissipative analysis and stability of nonlinear stochastic state-delayed systems. (English summary) **2005j:93074**
Baturin, V. A. *see* **Goncharova, E. V. et al.**, (**2005g:00019**)
Boukas, E. K. Nonfragile robust controller for linear Markovian jumping parameter systems with multiplicative Brownian disturbance. (English summary) **2005d:93133**
Dai, Li Yan (*with* Shi, Song Jiao) A new method to deduce the information state in the output feedback control for stochastic systems. (Chinese. English and Chinese summaries)
Drăgan, Vasile (*with* Morozan, Toader) Stochastic observability and applications. (English summary) **2005d:93134**
Goncharova, E. V. (*with* Baturin, V. A.; Sousa, J. B.; Pereïra, F. L.) A reachable set estimation algorithm for impulsive control systems. (*see* **2005g:00019**)
Han, Soo Hee *see* **Kwon, Wook Hyun**, **2005h:93153**
Ismail, Abdulla *see* **Mahmoud, Magdi S.**, **2005k:93214**
Kadirkamanathan, Visakan *see* **Li, Ping**[6], **2005f:93158**
Kostousova, E. K. Polyhedral estimates of reachable sets to linear discrete systems with integral bounds on controls. (*see* **2005g:00019**)
Kwon, Wook Hyun (*with* Han, Soo Hee) Receding horizon finite memory controls for output feedback controls of state-space systems. (English summary) **2005h:93153**
Li, Ping[6] (*with* Kadirkamanathan, Visakan) Fault detection and isolation in non-linear stochastic systems—a combined adaptive Monte Carlo filtering and likelihood ratio approach. (English summary) **2005f:93158**
Li, Zheng[1] (*with* Schmid, Christian) A time-varying generalised minimum variance controller. (English summary)
Liao, Xiao Xin *see* **Zhang, Yu Min et al.**
Liu, Rui Hua (*with* Zhang, Qing[1]; Yin, Gang George) Asymptotically optimal controls of hybrid linear quadratic regulators in discrete time. (English summary)
Mahmoud, Magdi S. (*with* Ismail, Abdulla) Robust performance analysis and synthesis of multi-state-delay jumping systems. (English summary) **2005k:93214**
Morozan, Toader *see* **Drăgan, Vasile**, **2005d:93134**
Pereïra, F. L. *see* **Goncharova, E. V. et al.**, (**2005g:00019**)
Petersen, Mark Adam (*with* Raubenheimer, Helgard; van der Walt, Frederik C.; van Rooy, Herrie F., II) Stochastic controllability of linear interest rate models. (English summary) **2005d:93135**
Raubenheimer, Helgard *see* **Petersen, Mark Adam et al.**, **2005d:93135**
van Rooy, Herrie F., II *see* **Petersen, Mark Adam et al.**, **2005d:93135**
Schmid, Christian *see* **Li, Zheng**[1]
Sesekin, A. N. (*with* Vdovina, O. I.) Numerical constructing the attainability sets for systems with the products of distributions. (English summary) (*see* **2005g:00019**)
Shen, Yi[2] *see* **Zhang, Yu Min et al.**
Shi, Song Jiao *see* **Dai, Li Yan**
Sousa, J. B. *see* **Goncharova, E. V. et al.**, (**2005g:00019**)
Stengel, Robert F. *see* **Wang, Qian**[7]
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Sun, Zheng Shun *see* **Zhou, Tong**[1] **et al.**, **2005k:93215**
Ugrinovskiĭ, V. A. Observability of linear stochastic uncertain systems. (English summary) **2005e:93147**
Ünal, Gazanfer (*with* Sun, Jian-Qiao) Symmetries and conserved quantities of stochastic dynamical control systems. (English summary) **2005e:93148**
Ungureanu, Viorica Mariela Uniform exponential stability for linear discrete time systems with stochastic perturbations in Hilbert spaces. (English and Italian summaries) **2005f:93159**
Vdovina, O. I. *see* **Sesekin, A. N.**, (**2005g:00019**)
van der Walt, Frederik C. *see* **Petersen, Mark Adam et al.**, **2005d:93135**
Wang, Hong[4] (*with* Yue, Hong[2]) Detecting and diagnosing faults in dynamic stochastic distributions using a rational *B*-splines approximation to output PDFs. (English summary)
Wang, Ling[1] *see* **Zhou, Tong**[1] **et al.**, **2005k:93215**
Wang, Qian[7] (*with* Stengel, Robert F.) Robust control of nonlinear systems with parametric uncertainty. (English summary)
Wu, De Ting Approximate schemes for stochastic oscillators and stochastic resonance of noninvasive control. (English summary)
Yin, Gang George *see* **Liu, Rui Hua et al.**
Yue, Hong[2] *see* **Wang, Hong**[4]
Zhang, Qing[1] *see* **Liu, Rui Hua et al.**
Zhang, Yu Min (*with* Shen, Yi[2]; Liao, Xiao Xin) Robust stability of neutral stochastic interval systems. (English summary)
Zhao, Hong[1] (*with* Zhou, Tong[1]) Model validation with input perturbations in a stochastic environment. (Chinese. English and Chinese summaries) **2005h:93154**
Zhou, Tong[1] (*with* Wang, Ling[1]; Sun, Zheng Shun) Closed-loop model set validation under a stochastic framework. (English summary) **2005k:93215**
— *see also* **Zhao, Hong**[1], **2005h:93154**

Items with secondary classifications in 93E03

Adam, Klaus On the relation between robust and Bayesian decision making. (English summary) **2005b:91061**
Allen, M. R. *see* **Khellah, F. et al.**
Bakstein, David *see* **Capasso, Vincenzo**, **2005g:60001**
Balasubramaniam, P. (*with* Dauer, J. P.) Controllability of semilinear stochastic evolution equations with nonlocal conditions. (English summary)
Bontempi, Gianluca Simulating continuous dynamical systems under conditions of uncertainty: the probability and the possibility approaches. (English summary) **2005c:37163**
Brualdi, Richard A. Correction to: "On a class of rational matrix differential equations arising in stochastic control" [Linear Algebra Appl. **379** (2004), 43–68; MR2039296 (2005b:34016)] by G. Freiling and A. Hochhaus.
Burrage, Kevin *see* **Burrage, P. M. et al.**, **2005f:65011**
Burrage, P. M. (*with* Herdiana, R.; Burrage, Kevin) Adaptive stepsize based on control theory for stochastic differential equations. (English summary) **2005f:65011**
Calafiore, Giuseppe *see* **Tempo, Roberto et al.**, **2005m:93003**
Capasso, Vincenzo (*with* Bakstein, David) ★ An introduction to continuous-time stochastic processes. **2005g:60001**
Cassandras, Christos G. *see* **Yu, Haining**, **2005b:93119**
Chen, Bor-Sen *see* **Feng, Jun'e et al.**, **2005i:93033** *and* **Zhang, Wei Hai**, **2005m:93134**
Chen, Wu Hua (*with* Guan, Zhi Hong; Yu, Pei[1]) Delay-dependent stability and H_∞ control of uncertain discrete-time Markovian jump systems with mode-dependent time delays. (English summary) **2005b:93112**
Costa, Eduardo F. (*with* do Val, João B. R.; Fragoso, Marcelo D.) On a detectability concept of discrete-time infinite Markov jump linear systems. (English summary) **2005k:90200**
Dabbene, Fabrizio *see* **Fujisaki, Yasumasa et al.**, **2005k:93077** *and* **Tempo, Roberto et al.**, **2005m:93003**
Danos, Vincent (*with* Desharnais, Josée; Panangaden, Prakash) Conditional expectation and the approximation of labelled Markov processes. (English summary) **2005c:68211**
Dauer, J. P. (*with* Mahmudov, N. I.) Controllability of stochastic semilinear functional differential equations in Hilbert spaces. (English summary) **2005d:60094**
— *see also* **Balasubramaniam, P.**
Desharnais, Josée *see* **Danos, Vincent et al.**, **2005c:68211**
Feng, Chunmei *see* **Xu, Sheng Yuan et al.**, **2005g:93020**
Feng, Jun'e (*with* Zhang, Wei Hai; Chen, Bor-Sen) H_∞ control for a class of nonlinear stochastic time-delay systems. (English summary) **2005i:93033**
Ferrante, Augusto Minimal representations of continuous-time processes having spectral density with zeros in the extended imaginary axis. (English summary) **2005m:93032**
Fetisov, V. N. Some problems of the robust control of a stochastic plant. (Russian. Russian summary) **2005e:93041**
Fieguth, P. *see* **Khellah, F. et al.**
Fragoso, Marcelo D. *see* **Costa, Eduardo F. et al.**, **2005k:90200**
Frazho, A. E. (*with* Yagci, B.; Sumali, H.) On sinusoid estimation on nonstationary noise. (English summary) **2005g:93108**
Freiling, Gerhard (*with* Hochhaus, Andreas) On a class of rational matrix differential equations arising in stochastic control. (English summary) **2005b:34016**
— *see also* **Brualdi, Richard A.**
Fujisaki, Yasumasa (*with* Dabbene, Fabrizio; Tempo, Roberto) Probabilistic design of LPV control systems. (English summary) **2005k:93077**
Germani, Alfredo (*with* Manes, Costanzo; Palumbo, Pasquale) Polynomial filtering for stochastic non-Gaussian descriptor systems. (English summary) **2005e:93154**
Gershon, E. (*with* Limebeer, D. J. N.; Shaked, U.; Yaesh, I.) Stochastic H_∞ tracking with preview for state-multiplicative systems. (English summary) **2005f:93047**
— (*with* Shaked, U.; Yaesh, I.) Static output-feedback of state-multiplicative systems with application to altitude control. (English summary) **2005f:93048**
Goodwin, Graham C. (*with* Haimovich, Hernan; Quevedo, Daniel E.; Welsh, James S.) A moving horizon approach to networked control system design. (English summary) **2005d:93059**
Gregorčič, Gregor (*with* Lightbody, Gordon) An affine Gaussian process approach for nonlinear system identification. (English summary) **2005b:93045**
Guan, Zhi Hong *see* **Chen, Wu Hua et al.**, **2005b:93112**
Gubina, Andrej *see* **Skantze, Petter et al.**
Guo, Yiqian *see* **Xu, Sheng Yuan et al.**, **2005g:93020**
Gushchin, Alexander A. (*with* Küchler, Uwe) On oscillations of the geometric Brownian motion with time-delayed drift. (English summary) **2005j:60115**
Gutiérrez, María-José (*with* Vázquez, Jesús) Switching equilibria: the present value model for stock prices revisited. (English summary) **2005d:91052**
Haimovich, Hernan *see* **Goodwin, Graham C. et al.**, **2005d:93059**
Herdiana, R. *see* **Burrage, P. M. et al.**, **2005f:65011**
Hochhaus, Andreas *see* **Freiling, Gerhard**, **2005b:34016** *and* **Brualdi, Richard A.**
Hu, Ying[1] (*with* Ma, Jin[1]) Nonlinear Feynman-Kac formula and discrete-functional-type BSDEs with continuous coefficients. (English summary) **2005c:60074**
Ilić-Spong, Marija *see* **Skantze, Petter et al.**
Ismail, Abdulla *see* **Shi, Peng et al.**, **2005i:93034**
Kan, Rui[2] Adaptive switching control of discrete time nonlinear systems based on multiple models. (English summary)
Kantz, Holger (*with* Ragwitz, Mario) Phase space reconstruction and nonlinear predictions for stationary and nonstationary Markovian processes. (English summary)
Karimi, H. R. (*with* Moshiri, B.; Lucas, Caro) Robust fuzzy linear control of a class of stochastic nonlinear time-delay systems. (English summary) **2005g:93072**
Khellah, F. (*with* Fieguth, P.; Murray, M. J.; Allen, M. R.) Statistical processing of large image sequences. (English summary)
Kisielewicz, Michał Some applications of Girsanov's theorem to the theory of stochastic differential inclusions. (English summary) **2005g:60061**

Krishnamurthy, Vikram (*with* Wang, Xiaodong[2]; Yin, Gang George) Spreading code optimization and adaptation in CDMA via discrete stochastic approximation. (English summary) **2005f:94035**
Krivulin, N. K. Estimation of the rate of growth of the state vector of a generalized linear dynamical system with random matrix. (English summary) **2005g:93028**
Küchler, Uwe *see* **Gushchin, Alexander A., 2005j:60115**
Ladde, G. S. Hybrid systems: convergence and stability analysis of stochastic large-scale approximation schemes. (English summary) **2005j:93078**
Lam, James *see* **Xu, Sheng Yuan, 2005f:93174**
Lightbody, Gordon *see* **Gregorčič, Gregor, 2005b:93045**
Limebeer, D. J. N. *see* **Gershon, E. et al., 2005f:93047**
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Masiero, Federica Semilinear Kolmogorov equations and applications to stochastic optimal control. (English summary) **2005j:35104**
Michta, Mariusz On weak solutions to stochastic differential inclusions driven by semimartingales. (English summary) **2005h:34032**
Moshiri, B. *see* **Karimi, H. R. et al., 2005g:93072**
Muradore, Riccardo (*with* Picci, Giorgio) Mixed $\mathscr{H}_2/\mathscr{H}_\infty$ control: the discrete-time case. (English summary) **2005f:93106**
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Murray, M. J. *see* **Khellah, F. et al.**
Nakamori, Seiichi New design of recursive Wiener fixed-lag smoother in linear discrete-time stochastic systems. (English summary) **2005f:62113**
Nazin, Alexander V. *see* **Poznyak, Alexander S. et al., 2005d:93023**
Øksendal, Bernt K. (*with* Sulem, Agnès) ★ Applied stochastic control of jump diffusions. **2005i:93003**
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Pan, Zigang Canonical forms for stochastic nonlinear systems. (English summary) **2005k:93035**
Panangaden, Prakash *see* **Danos, Vincent et al., 2005c:68211**
Picci, Giorgio *see* **Muradore, Riccardo, 2005f:93106**
Popkov, Yu. S. Positive dynamical systems with an entropy operator. (Russian. Russian summary) **2005g:34122**
Pota, H. R. *see* **Ugrinovskiĭ, V. A.**
Poznyak, Alexander S. (*with* Ljung, Lennart) On-line identification and adaptive trajectory tracking for nonlinear stochastic continuous time systems using differential neural networks. (English summary)
— (*with* Nazin, Alexander V.; Murano, Daishi) Observer matrix gain optimization for stochastic continuous time nonlinear systems. (English summary) **2005d:93023**
Quevedo, Daniel E. *see* **Goodwin, Graham C. et al., 2005d:93059**
Ragwitz, Mario *see* **Kantz, Holger**
Reneke, James A. Stochastic linearization of nonlinear point dissipative systems. (English summary) **2005j:93022**
Shaked, U. *see* **Gershon, E. et al., 2005f:93047** *and* **2005f:93048**
Shi, Peng (*with* Mahmoud, Magdi S.; Ismail, Abdulla) Robust $\mathscr{H}_\infty$ analysis and synthesis for jumping time-delay systems using transformation methods. (English summary) **2005i:93034**
— *see also* **Xu, Sheng Yuan et al., 2005g:93020**
Skantze, Petter (*with* Ilić-Spong, Marija; Gubina, Andrej) Modelling locational price spreads in competitive electricity markets: applications for transmission rights valuation and replication. (English summary)
Skiadas, Costis Robust control and recursive utility. (English summary) **2005e:91052**
Sulem, Agnès *see* **Øksendal, Bernt K., 2005i:93003**
Sumali, H. *see* **Frazho, A. E. et al., 2005g:93108**
Tempo, Roberto (*with* Calafiore, Giuseppe; Dabbene, Fabrizio) ★ Randomized algorithms for analysis and control of uncertain systems. **2005m:93003**
— *see also* **Fujisaki, Yasumasa et al., 2005k:93077**
Tjärnström, Fredrik (*with* Ljung, Lennart) L_2 model reduction and variance reduction. (English summary) **2005k:93037**
Torondzhadze, T. A. Stochastic equations in the problems of semimartingale parameter estimation. **2005h:60176**
Ugrinovskiĭ, V. A. (*with* Pota, H. R.) Decentralized control of power systems via robust control of uncertain Markov jump parameter systems. (English summary)
do Val, João B. R. *see* **Costa, Eduardo F. et al., 2005k:90200**
Vázquez, Jesús *see* **Gutiérrez, María-José, 2005d:91052**
Vega-Amaya, Oscar Zero-sum average semi-Markov games: fixed-point solutions of the Shapley equation. (English summary) **2005h:91016**
(Vidyasagar, M.) *see* **Tempo, Roberto et al., 2005m:93003**
Wang, Xiaodong[2] *see* **Krishnamurthy, Vikram et al., 2005f:94035**
Welsh, James S. *see* **Goodwin, Graham C. et al., 2005d:93059**
Xu, Sheng Yuan (*with* Shi, Peng; Feng, Chunmei; Guo, Yiqian; Zou, Yun) Robust observers for a class of uncertain nonlinear stochastic systems with state delays. (English summary) **2005g:93020**
— (*with* Lam, James) Robust output feedback stabilization of uncertain discrete time-delay stochastic systems with multiplicative noise. (English summary) **2005f:93174**
Yaesh, I. *see* **Gershon, E. et al., 2005f:93047** *and* **2005f:93048**
Yagci, B. *see* **Frazho, A. E. et al., 2005g:93108**
Yang, Xiao Song An estimate of topological entropy of N-buffer fluid networks. (English summary) **2005h:37211**
Yin, Gang George (*with* Zhang, Qing[1]) Stability of nonlinear hybrid systems. (English summary) **2005b:93158**
— *see also* **Krishnamurthy, Vikram et al., 2005f:94035**
Yu, Haining (*with* Cassandras, Christos G.) Perturbation analysis of feedback-controlled stochastic flow systems. (English summary) **2005b:93119**
Yu, Pei[1] *see* **Chen, Wu Hua et al., 2005b:93112**
Zhang, Qing[1] *see* **Yin, Gang George, 2005b:93158**
Zhang, Wei Hai (*with* Chen, Bor-Sen) On stabilizability and exact observability of stochastic systems with their applications. (English summary) **2005m:93134**
— Robust H_∞ control of stochastic uncertain systems. (Chinese. English and Chinese summaries)
— *see also* **Feng, Jun'e et al., 2005i:93033**
Zou, Yun *see* **Xu, Sheng Yuan et al., 2005g:93020**

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Akçay, Hüseyin The size of the membership-set in a probabilistic framework. (English summary) **2005m:93144**
Alessandri, Angelo (*with* Baglietto, Marco; Battistelli, Giorgio) On estimation error bounds for receding-horizon filters using quadratic boundedness. (English summary) **2005b:93152**
— (*with* Baglietto, Marco; Battistelli, Giorgio) Robust receding-horizon state estimation for uncertain discrete-time linear systems. (English summary) **2005k:93216**
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— Outliers, inliers and the generalized least trimmed squares estimator in system identification. (English summary) **2005e:93149**
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Bauer, Dietmar Order estimation for subspace methods. (English summary)
— (*with* Ljung, Lennart) Some facts about the choice of the weighting matrices in Larimore type of subspace algorithms. (English summary) **2005k:93218**
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Belforte, Gustavo (*with* Gay, Paolo) Optimal worst case estimation for LPV-FIR models with bounded errors. (English summary) **2005f:93160**
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Bliman, Pierre-Alexandre (*with* Piunovskiĭ, A. B.; Sorine, Michel) Controlled linear system with delayed relay output under impulse random disturbances. (English summary)
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Broersen, Piet M. T. Mean square error of the empirical transfer function estimator for stochastic input signals. (English summary)
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Chen, Jie[4] *see* **Qiu, Li et al., 2005e:93151**
Ching, J. (*with* Au, S. K.; Beck, J. L.) Reliability estimation for dynamical systems subject to stochastic excitation using subset simulation with splitting. (English summary) **2005h:93155**
Chiuso, Alessandro (*with* Picci, Giorgio) Numerical conditioning and asymptotic variance of subspace estimates. (English summary)
(Chu, Kai-ching) *see* **Hodoshima, Jiro**
Crama, Philippe (*with* Schoukens, Johan; Pintelon, Rik) Generation of enhanced initial estimates for Hammerstein systems. (English summary)
— (*with* Schoukens, Johan) Hammerstein-Wiener system estimator initialization. (English summary)
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Del Vecchio, Domitilla (*with* Murray, Richard M.; Perona, Pietro) Decomposition of human motion into dynamics-based primitives with application to drawing tasks. (English summary) **2005k:93219**
De Nicolao, Giuseppe (*with* Ferrari-Trecate, Giancarlo) Regularization networks for inverse problems: a state-space approach. (English summary)
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— (*with* Ben-Tal, Aharon; Nemirovskii, Arkadii) Robust mean-squared error estimation in the presence of model uncertainties. (English summary) **2005h:93156**
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Goodwin, Graham C. (*with* Braslavsky, Julio H.; Serón, María M.) Non-stationary stochastic embedding for transfer function estimation. (English summary)
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Hodoshima, Jiro Rejoinder to: "Author's reply: 'Comments on: "Estimation and decision for linear systems with elliptical random processes"'" [IEEE Trans. Automat. Control **47** (2002), no. 1, 200; MR1879714 (2002m:93056b)] by K. Chu.
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Kirilyuk, V. S. On a nonparametric estimation of systems with two types of outputs from the results of input-output observations. (Russian. English and Ukrainian summaries)
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Lee, Kiryung (*with* Kim, Dong Sik[2]; Kim, Taejeong) Regression-based prediction for blocking artifact reduction in JPEG-compressed images. (English summary)
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— *see also* **Söderström, Torsten et al.**
Menini, Laura (*with* Tornambè, Antonio) State estimation of (otherwise unobservable) linear mechanical systems through the use of non-smooth impacts: the case of two mating gears. (English summary)
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Prattichizzo, Domenico *see* **Di Marco, M. et al.**
Pupeikis, Rimantas On the identification of Wiener systems having saturation-like functions with positive slopes. (English and Lithuanian summaries)
Qiu, Li (*with* Ren, Zhiyuan; Chen, Jie[4]) Fundamental performance limitations in estimation problems. (English summary) **2005e:93151**
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Ruan, Rong Yao (*with* Yang, Chang Li; Chen, Huixin; Li, Bin) On-line order estimation and parameter identification for linear stochastic feedback control systems (CARMA model). (English summary)
Saif, Mehrdad *see* **Xiong, Yi**
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de Schutter, Joris *see* **Lefebvre, Tine et al., 2005a:93147**
Serón, María M. *see* **Goodwin, Graham C. et al.**
Severin, V. P. Minimization of integral quadratic estimates for automatic control systems. I. Computation of estimates. (Russian. English, Russian and Ukrainian summaries)
— Minimization of integral quadratic estimates for automatic control systems. II. A step-by-step approach. (Russian. English, Russian and Ukrainian summaries)
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Xia, Xiaohua Estimation of HIV/AIDS parameters. (English summary)
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Zasadzinski, M. *see* **Darouach, M. et al.**
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Zhang, Huanshui (*with* Xie, Lihua; Zhang, David[1]; Soh, Yeng Chai) A reorganized innovation approach to linear estimation. (English summary) **2005d:93137**
Zhang, Ping[8] (*with* Ding, Steven Xianchun; Wang, Gui Zeng; Zhou, Dong Hua) Fault detection of linear discrete-time periodic systems. (English summary)
Zheng, Wei Xing[1] Parameter estimation of stochastic linear systems with noisy input. (English summary) **2005c:93097**
Zhou, Dong Hua *see* **Zhang, Ping[8] et al.**

Items with secondary classifications in 93E10

Ahmed, N. U. (*with* Song, Hui) Real-time feedback control of computer networks based on predicted state estimation.
Anan'ev, B. I. On an approach to the problem of estimating the state of discrete stochastic inclusions. (Russian. Russian summary) **2005g:93110**
de Arruda, G. H. M. (*with* Barros, P. R.) Relay-based closed loop transfer function frequency points estimation. (English summary)
Arteaga, Marco A. Robot control and parameter estimation with only joint position measurements. (English summary)
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Blank, Luise Preconditioning via a Schur complement method: an application in state estimation. (English summary) **2005b:65029**
— State estimation without regularizing the initial data. (English summary) **2005h:34005**
Bliman, Pierre-Alexandre From Lyapunov-Krasovskii functionals for delay-independent stability to LMI conditions for μ-analysis. (English summary) **2005f:34207**
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Borisov, Andrei V. Analysis and estimation of the states of special Markov jump processes. I. A martingale representation. (Russian. Russian summary) **2005j:60156**
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Breitenbach, Jan *see* **Haid, Markus, 2005k:93225**
Broersen, Piet M. T. (*with* de Waele, Stijn; Bos, Robert) Autoregressive spectral analysis when observations are missing. (English summary)
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Chen, Tong Wen *see* **Ding, Feng[2], 2005i:65045**
Chen, Xinkai (*with* Zhai, Guisheng) Robust control for a class of dynamical systems with uncertainties. (English summary) **2005c:93041**
Chernozhukov, Victor (*with* Hong, Han) Likelihood estimation and inference in a class of nonregular econometric models. (English summary) **2005g:62055**
Chiann, Chang (*with* Morettin, Pedro A.) Time-domain estimation of time-varying linear systems. (English summary) **2005j:62139**
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Dabbene, Fabrizio (*with* Gay, Paolo; Polyak, Boris Teodorovich) Recursive algorithms for inner ellipsoidal approximation of convex polytopes. (English summary)
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Ding, Feng[2] (*with* Chen, Tong Wen) Iterative least-squares solutions of coupled Sylvester matrix equations. (English summary) **2005i:65045**
Dong, Yan (*with* Xu, Xingzhong; Lu, Chang Yu) Admissibility of nonnegative quadratic estimators for error variance with respect to restricted ellipsoidal parameter space. (English and Chinese summaries) **2005e:62012**
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Duin, R. P. W. *see* **van der Heijden, F. et al., 2005h:62004**
Eldar, Yonina C. (*with* Merhav, Neri) A competitive minimax approach to robust estimation of random parameters. (English summary) **2005k:62088**
Eppert, A. *see* **Feng, Zhi Lan et al.**
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Feng, Zhi Lan (*with* Eppert, A.; Milner, F. A.; Minchella, D. J.) Estimation of parameters governing the transmission dynamics of schistosomes. (English summary)
Filippova, Tatiana F. On the generalized solutions for uncertain systems with applications to optimal control and estimation problems. (English summary)
— *see also* **Vzdoronova, O. G., (2005c:00020)**
Frery, Alejandro C. (*with* Cribari-Neto, Francisco; de Souza, Marcelo O.) Analysis of minute features in speckled imagery with maximum likelihood estimation. (English summary)
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van der Heijden, F. (*with* Duin, R. P. W.; de Ridder, D.; Tax, D. M. J.) ★ Classification, parameter estimation and state estimation. **2005h:62004**
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Hong, Han *see* **Chernozhukov, Victor, 2005g:62055**
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Jaulin, Luc Nonlinear bounded-error state estimation of continuous-time systems. (English summary)
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Kim, Kyung Youn (*with* Kang, Sook In; Kim, Sin; Kim, Min Chan; Kang, Chang Ik; Lee, Junghoon) Dynamic electrical impedance imaging of binary-mixture fields with external and internal electrodes. (English summary)
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Kim, Sin *see* **Kim, Kyung Youn et al., 2005b:35295**
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Mirkin, Leonid On the H^∞ fixed-lag smoothing: how to exploit the information preview. (English summary)
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Polycarpou, Marios M. *see* **Zhang, Xiaodong[3] et al., 2005i:93090**
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Raimondi, Francesco M. (*with* Melluso, Maurizio) Manipulator control system model estimation using a real time finite state machine based on statistical LPC analysis. (English summary)
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Sengupta, Debasis On the Kalman filter with possibly degenerate and correlated errors. (English summary) **2005d:93141**
Shah, Sirish L. *see* **Gopaluni, R. B. et al.**
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Shi, Peng *see* **Mahmoud, Magdi S. et al., 2005h:93166**
Šimandl, Miroslav (*with* Královec, Jakub; Tichavský, Petr) Filtering, predictive, and smoothing Cramér-Rao bounds for discrete-time nonlinear dynamic systems. (English summary)
Sinopoli, Bruno (*with* Schenato, Luca; Franceschetti, Massimo; Poolla, Kameshwar; Jordan, Michael I.; Sastry, S. Shankar) Kalman filtering with intermittent observations. (English summary) **2005h:93169**
Sitz, A. (*with* Schwarz, U.; Kurths, Jürgen) The unscented Kalman filter, a powerful tool for data analysis. (English summary) **2005b:93155**
Soh, Yeng Chai *see* **Zhu, Xing et al.** *and* **Zhang, Huanshui et al.**
Solari, G. *see* **Hildebrand, Roland et al., 2005d:93140**
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Soverini, Umberto *see* **Guidorzi, Roberto et al.**
Stigter, J. D. (*with* Beck, M. B.) On the development and application of a continuous-discrete recursive prediction error algorithm. (English summary)
Su, Te-Jen *see* **Tsai, Jason Sheng Hong et al., 2005e:93156**
Subramanian, Ananth (*with* Sayed, Ali H.) Regularized robust filters for time-varying uncertain discrete-time systems. (English summary) **2005d:93142**
Sun, Fu-Chun (*with* Liu, Hua Ping[2]; He, Kezhong; Sun, Zeng Qi) Reduced-order H_∞ filtering for linear systems with Markovian jump parameters. (English summary) **2005m:93154**
— *see also* **Liu, Hua Ping[2] et al., 2005f:93167**
Sun, Kunpeng (*with* Packard, Andrew) Robust H_2 and H_∞ filters for uncertain LFT systems. (English summary) **2005k:93226**
Sun, Shu Li[1] (*with* Deng, Zi-Li) Multi-sensor optimal information fusion Kalman filter. (English summary)
— Multi-sensor information fusion white noise filter weighted by scalars based on Kalman predictor. (English summary)

— (*with* Deng, Zi-Li) Distributed optimal fusion steady-state Kalman filter for systems with coloured measurement noises. (English summary) **2005i:93085**

Sun, Zeng Qi *see* **Liu, Hua Ping[2] et al., 2005f:93167** *and* **Sun, Fu-Chun et al., 2005m:93154**

Takawira, Fambirai *see* **Whitehead, James Bruce**

Tam, Peter Kwong-Shun *see* **Ho, C. Y. F. et al.**

Tang, Wan Sheng (*with* Zou, Ming Neng; Zhang, Li Xia) Estimator design based on extension principles for hybrid dynamic systems. (Chinese. English and Chinese summaries)

Tantaratana, Sawasd *see* **Boonyanant, Phakphoom, 2005g:93111**

Teo, Kok Lay *see* **Liu, Yan Qun et al., 2005g:93113** *and* **Ho, C. Y. F. et al.**

Tertychnyĭ-Dauri, V. Yu. Parametric filtering: optimal synthesis on a nonlinear dynamic manifold. (Russian. Russian summary) **2005g:93114**

Tichavský, Petr *see* **Šimandl, Miroslav et al.**

Treebushny, Dimitri (*with* Madsen, Henrik) A new reduced rank square root Kalman filter for data assimilation in mathematical models. (English summary) (*see* **2005c:00014**)

Trofino-Neto, Alexandre *see* **Barbosa, Karina A. et al., 2005k:93222**

Tsai, Jason Sheng Hong (*with* Lu, Chien-Yu; Su, Te-Jen) Robust Kalman filtering for delay-dependent interval systems. (English summary) **2005e:93156**

Tseng, Chien Hsun *see* **Liu, Yan Qun et al., 2005g:93113**

Tseng, Chung-Shi *see* **Zhang, Wei Hai et al., 2005h:93170**

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Verhaegen, Michel *see* **Fraanje, Rufus et al.**

Wang, Chang Hong[1] *see* **Gao, Huijun et al., 2005i:93080** *and* **2005j:93076**

Wang, Dong (*with* Zhou, Dong Hua; Jin, Yi Hui) An extended nonlinear state predictor for a class of nonlinear time delay systems. (English summary) **2005e:93157**

Wang, Haibo *see* **Zhong, Maiying et al.**

Wang, Zi Dong[1] (*with* Ho, Daniel W. C.) Filtering on nonlinear time-delay stochastic systems. (English summary)

Whitehead, James Bruce (*with* Takawira, Fambirai) Performance analysis of the linearly constrained constant modulus algorithm-based multiuser detector. (English summary)

Whittle, Jon (*with* Schumann, Johann) Automating the implementation of Kalman filter algorithms. (English summary)

Williamson, Geoffrey A. *see* **Dunne, Bruce E., 2005g:93112**

Wu, P. (*with* Elliott, Robert J.) Hidden Markov chain filtering for a jump diffusion model. (English summary) **2005i:93086**

Xie, Lihua (*with* Lu, Lilei; Zhang, David[1]; Zhang, Huanshui) Improved robust H_2 and H_∞ filtering for uncertain discrete-time systems. (English summary)

— *see also* **Zhu, Xing et al.** *and* **Zhang, Huanshui et al.**

Xie, Zhong Jie *see* **Li, Dong Feng[1], 2005i:93081**

Xu, Sheng Yuan (*with* Chen, Tong Wen) Robust H_∞ filtering for uncertain impulsive stochastic systems under sampled measurements. (English summary)

— (*with* Chen, Tong Wen; Lam, James) Robust H_∞ filtering for a class of nonlinear discrete-time Markovian jump systems. (English summary) **2005f:93168**

— (*with* Lam, James; Zou, Yun; Lin, Zhiping; Paszke, Wojciech) Robust H_∞ filtering for uncertain 2-D continuous systems. (English summary) **2005m:93155**

— *see also* **Zou, Yun et al., 2005f:93169** *and* **Gao, Huijun et al., 2005i:93080**

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Yin, Gang George (*with* Zhang, Qing[1]; Liu, Yuan-jin) Discrete-time approximation of Wonham filters. (English summary) **2005e:93158**

Yoon, Myung-Gon (*with* Ugrinovskiĭ, V. A.; Petersen, Ian R.) Robust finite horizon minimax filtering for discrete-time stochastic uncertain systems. (English summary) **2005c:93101**

Zaghloul, Kareem A. (*with* Boahen, Kwabena A.) An ON-OFF log domain circuit that recreates adaptive filtering in the retina. (English summary)

Zhang, David[1] *see* **Xie, Lihua et al.** *and* **Zhang, Huanshui et al.**

Zhang, Huanshui (*with* Xie, Lihua; Soh, Yeng Chai) Risk-sensitive filtering, prediction and smoothing for discrete-time singular systems. (English summary)

— (*with* Zhang, David[1]; Xie, Lihua; Lin, Jun) Robust filtering under stochastic parametric uncertainties. (English summary)

— *see also* **Xie, Lihua et al.**

Zhang, Li Xia *see* **Tang, Wan Sheng et al.**

Zhang, Qing[1] *see* **Yin, Gang George et al., 2005e:93158**

Zhang, Wei Hai (*with* Chen, Bor-Sen; Tseng, Chung-Shi) Robust H_∞ filtering for nonlinear stochastic systems. (English summary) **2005h:93170**

Zhong, Maiying (*with* Ding, Steven Xianchun; Lam, James; Wang, Haibo) An LMI approach to design robust fault detection filter for uncertain LTI systems. (English summary)

Zhong, Ningfan *see* **Zou, Yun et al., 2005f:93169**

Zhou, Dong Hua *see* **Wang, Dong et al., 2005e:93157**

Zhu, Xing (*with* Soh, Yeng Chai; Xie, Lihua) Design and analysis of discrete-time robust Kalman filters. (English summary)

Zolghadri, A. *see* **Henry, David, 2005m:93151**

Zou, Ming Neng *see* **Tang, Wan Sheng et al.**

Zou, Yun (*with* Sheng, Mei; Zhong, Ningfan; Xu, Sheng Yuan) A generalized Kalman filter for 2D discrete systems. (English summary) **2005f:93169**

— *see also* **Xu, Sheng Yuan et al., 2005m:93155**

Items with secondary classifications in 93E11

Aggoun, Lakhdar On a stochastic capture-recapture predator-prey model. (English summary) **2005h:60229**

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Azimi-Sadjadi, Babak (*with* Krishnaprasad, P. S.) A particle filtering approach to change detection for nonlinear systems. (English summary)

Boers, Yvo (*with* Driessen, Hans) Hybrid state estimation: a target tracking application. (English summary)

Borisov, V. G. (*with* Ermilov, A. S.; Ermilova, T. V.; Sukhanov, V. M.) Control of the angular motion of a semi-active bundle of bodies, based on estimates of nonmeasurable coordinates obtained by Kalman filtering methods. (Russian. Russian summary)

Bovik, Alan Conrad (*with* Raj, Raghu G.) Approximating filtered scale-variant signals. (English summary) **2005h:94005**

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Bruyninckx, Herman *see* **Lefebvre, Tine et al., 2005a:93147**

Canelon, Jose I. *see* **Tsai, Jason Sheng Hong et al., 2005i:94010**

Chen, Jie[4] *see* **Qiu, Li et al., 2005e:93151**

Chen, Qiuhui (*with* Micchelli, Charles A.; Peng, Silong; Xu, Yuesheng) Multivariate filter banks having matrix factorizations. (English summary) **2005a:42025**

Chen, Robert H. (*with* Mingori, D. Lewis; Speyer, Jason L.) Optimal stochastic fault detection filter. (English summary) **2005k:93229**

Chen, Rong[1] *see* **Guo, Dong et al., 2005h:94026**

Chen, Sheng[2] *see* **Whidborne, James F. et al.**

Chen, Wen-Hua *see* **Guo, Lei[1], 2005j:93072**

Cheung-Mon-Chan, Pascal (*with* Moulines, Éric) Global sampling for sequential filtering over discrete state space. (English summary) **2005h:94025**

Chigansky, Pavel (*with* Liptser, Robert) Stability of nonlinear filters in nonmixing case. (English summary) **2005h:62265**

Costa, Oswaldo L. V. (*with* Fragoso, Marcelo D.; Marques, R. P.) ★ Discrete-time Markov jump linear systems. **2005i:93002**

Cotronei, Mariantonia (*with* Lo Cascio, Maria Laura; Sauer, Thomas) Dual non-negative rational symbols with arbitrary approximation order. (English summary) **2005f:41038**

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Dahlke, Scott *see* **Vergez, Paul et al., 2005m:70087**

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Ermilova, T. V. *see* **Borisov, V. G. et al.**

de Figueiredo, R. J. P. *see* **Figueroa, J. L. et al.**

Figueroa, J. L. (*with* Cousseau, J. E.; de Figueiredo, R. J. P.) A simplicial canonical piecewise linear adaptive filter. (English summary)

Finesso, Lorenzo *see* **Mevel, Laurent, 2005d:93143**

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Fragoso, Marcelo D. *see* **Costa, Oswaldo L. V. et al., 2005i:93002**

Gao, Huijun (*with* Wang, Chang Hong[1]) A delay-dependent approach to robust H_∞ filtering for uncertain discrete-time state-delayed systems. (English summary) **2005a:93093**

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Genon-Catalot, Valentine (*with* Kessler, Mathieu) Random scale perturbation of an AR(1) process and its properties as a nonlinear explicit filter. (English summary) **2005g:60111**

Gravereaux, Jean-Bernard (*with* Ledoux, James) Poisson approximation for some point processes in reliability. (English summary) **2005f:60112**

Green, Alan C. (*with* Dougherty, Edward R.; Marshall, Stephen; Greenhalgh, David) Optimal filters with multiresolution apertures. (English summary) **2005a:94015**

Greenhalgh, David *see* **Green, Alan C. et al., 2005a:94015**

Gu, Da-Wei *see* **Whidborne, James F. et al.**

Guillin, Arnaud *see* **Douc, Randal et al., 2005k:60086**

Guo, Dong (*with* Wang, Xiaodong[2]; Chen, Rong[1]) Multilevel mixture Kalman filter. (English summary) **2005h:94026**

Guo, Lei[1] (*with* Chen, Wen-Hua) Disturbance attenuation and rejection for systems with nonlinearity via DOBC approach. (English summary) **2005j:93072**

Gyöngy, István (*with* Krylov, Nicolai) On the rate of convergence of splitting-up approximations for SPDEs. (English summary) **2005f:65012**

Han, Soo Hee *see* **Kwon, Wook Hyun, 2005h:93153**

van der Heijden, F. (*with* Duin, R. P. W.; de Ridder, D.; Tax, D. M. J.) ★ Classification, parameter estimation and state estimation. **2005h:62004**

Hou, Zhen Ting (*with* Luo, Jiaowan; Shi, Peng) Stochastic stability of linear systems with semi-Markovian jump parameters. (English summary) **2005k:93234**

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Ivanov, M. P. (*with* Kashinov, V. V.) Are a correlator and its matched filter the unique optimal sensors of a known signal against a white noise background? (Russian. Russian summary)

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Kashinov, V. V. *see* **Ivanov, M. P.**

Katulev, A. N. (*with* Kuznetsov, V. N.; Malevinskiĭ, M. F.; Solomakha, G. M.) A two-dimensional polynomial filter. (Russian. Russian summary) **2005f:94009**

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Kleptsyna, M. L. (*with* Le Breton, A.; Viot, M.) Asymptotically optimal filtering in linear systems with fractional Brownian noises. (English summary) **2005j:60083**

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Maskell, Simon Joint tracking of manoeuvring targets and classification of their manoeuvrability. (English summary)
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Mevel, Laurent (*with* Finesso, Lorenzo) Asymptotical statistics of misspecified hidden Markov models. (English summary) **2005d:93143**
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Papaodysseus, Constantin (*with* Alexiou, Constantin; Roussopoulos, George D; Panagopoulos, Thanasis E.) Quantization effects and stabilization of the fast-Kalman algorithm. (English summary)
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Safi, S. (*with* Zeroual, A.) Blind parametric identification of non-Gaussian FIR systems using higher order cumulants. (English summary)
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Semushin, I. V. (*with* Tsyganova, Julia; Kulikova, Maria V.) Fault point detection with the bank of competitive Kalman filters. (English summary) (*see* **2005c:00015**)
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Tsai, Jason Sheng Hong (*with* Yu, Jiang Ming; Canelon, Jose I.; Shieh, Leang-San) Extended-Kalman-filter-based chaotic communication. (English summary) **2005i:94010**
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Whidborne, James F. (*with* Gu, Da-Wei; Wu, Jun[3]; Chen, Sheng[2]) Optimal controller and filter realizations using finite-precision, floating-point arithmetic. (English summary)
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Gubarev, V. F. Iterative synthesis of a control with selective identification of the model. (Russian. English, Russian and Ukrainian summaries)
Gustafsson, Tony Subspace-based system identification: weighting and pre-filtering of instruments. (English summary)
Hasiewicz, Zygmunt (*with* Mzyk, Grzegorz) Combined parametric-nonparametric identification of Hammerstein systems. (English summary) **2005c:93102**
— *see also* **Śliwiński, Przemysław**
Hetthéssy, J. *see* **Vajk, I.**
Hirasawa, Kotaro *see* **Hu, Jinglu et al.**
Horton, K. G. *see* **Campbell, S. L. et al., 2005k:93228**
Hu, Jinglu (*with* Hirasawa, Kotaro; Kumamaru, Kousuke) A homotopy approach to improving PEM identification of ARMAX models. (English summary)
Kachanov, B. O. The Laplace transform of random processes, and nonparametric identification of continuous systems. (Russian. Russian summary) **2005h:93172**
Kameyama, Kentaro *see* **Ohsumi, Akira et al.**
Kondrat′ev, A. V. *see* **Fatyanova, Olga, (2005c:00015)**
Kostina, Ekaterina Robust parameter estimation in dynamic systems. (English summary) **2005g:93117**
Kouvaritakis, Basil *see* **Tortora, Giacomo et al.**
Kumamaru, Kousuke *see* **Hu, Jinglu et al.**
Kurths, Jürgen *see* **Voss, Henning U. et al., 2005c:93103**
Kwon, Wook Hyun *see* **Luo, Guiming**
Lagoa, Constantino M. *see* **Sznaier, Mario et al., 2005i:93089**
Larsson, Erik K. (*with* Söderström, Torsten) Identification of continuous-time AR processes from unevenly sampled data. (English summary)
Ljung, Lennart *see* **Reinelt, Wolfgang et al., 2005k:93230**
Luo, Guiming (*with* Kwon, Wook Hyun) New identification approaches for disturbed models. (English summary)
Maciejowski, Jan M. *see* **Chui, Nelson L. C., 2005m:93156**
Mazzaro, María Cecilia *see* **Sznaier, Mario et al., 2005i:93089**
Mevel, Laurent (*with* Finesso, Lorenzo) Asymptotical statistics of misspecified hidden Markov models. (English summary) **2005d:93143**
Mingori, D. Lewis *see* **Chen, Robert H. et al., 2005k:93229**

Mzyk, Grzegorz *see* **Hasiewicz, Zygmunt, 2005c:93102**
Nikoukhah, Ramine *see* **Campbell, S. L. et al., 2005k:93228**
Ninness, Brett (*with* Gibson, Stuart) Quantifying the accuracy of Hammerstein model estimation. (English summary)
Ohsumi, Akira (*with* Kameyama, Kentaro; Yamaguchi, Ken-Ichi) Subspace identification for continuous-time stochastic systems via distribution-based approach. (English summary)
Parisini, Thomas *see* **Zhang, Xiaodong[3] et al., 2005i:93090**
Pintelon, Rik *see* **Schoukens, Johan et al.**
Polycarpou, Marios M. *see* **Zhang, Xiaodong[3] et al., 2005i:93090**
Reinelt, Wolfgang (*with* Garulli, Andrea; Ljung, Lennart) Comparing different approaches to model error modeling in robust identification. (English summary) **2005k:93230**
Rolain, Y. *see* **Schoukens, Johan et al.**
Safi, S. (*with* Zeroual, A.) Blind parametric identification of non-Gaussian FIR systems using higher order cumulants. (English summary)
Sarychev, A. P. Identification of systems of regression models with random coefficients. (Russian. English, Russian and Ukrainian summaries) **2005i:93088**
Schoukens, Johan (*with* Rolain, Y.; Pintelon, Rik) Modified AIC rule for model selection in combination with prior estimated noise models. (English summary)
Śliwiński, Przemysław (*with* Hasiewicz, Zygmunt) Computational algorithms for multiscale identification of nonlinearities in Hammerstein systems with random inputs. (English summary)
Sobolev, L. G. Identification of experimental trends by L_χ-transform methods. (Russian. Russian summary) **2005e:93160**
Söderström, Torsten *see* **Larsson, Erik K.**
Speyer, Jason L. *see* **Chen, Robert H. et al., 2005k:93229**
Sznaier, Mario (*with* Lagoa, Constantino M.; Mazzaro, María Cecilia) An algorithm for sampling subsets of $\mathscr{H}_\infty$ with applications to risk-adjusted performance analysis and model (in)validation. (English summary) **2005i:93089**
Tan, Ai Hui (*with* Godfrey, Keith R.; Barker, H. Anthony) Application of multi-level signals to the identification of direction-dependent processes. (English summary)
Timmer, Jens *see* **Voss, Henning U. et al., 2005c:93103**
Tortora, Giacomo (*with* Kouvaritakis, Basil; Clarke, David W.) Fault-accommodation with intelligent sensors. (English summary)
Vajk, I. (*with* Hetthéssy, J.) Identification of nonlinear errors-in-variables models. (English summary)
Venkatesh, Saligrama Necessary and sufficient conditions for robust identification of uncertain LTI systems. (English summary) **2005f:93171**
Voss, Henning U. (*with* Timmer, Jens; Kurths, Jürgen) Nonlinear dynamical system identification from uncertain and indirect measurements. (English summary) **2005c:93103**
Wang, Le Yi (*with* Yin, Gang George) Closed-loop persistent identification of linear systems with unmodeled dynamics and stochastic disturbances. (English summary) **2005k:93231**
— (*with* Zhang, Ji-Feng; Yin, Gang George) System identification using binary sensors. (English summary) **2005d:93144**
Wang, Zhen Bin (*with* Cao, Guang Yi; Zhu, Xin Jian) Identification algorithm for a kind of fractional order system. (English and Chinese summaries) **2005e:93161**
Yamaguchi, Ken-Ichi *see* **Ohsumi, Akira et al.**
Yin, Gang George *see* **Wang, Le Yi et al., 2005d:93144** *and* **2005k:93231**
Zeroual, A. *see* **Safi, S.**
Zhang, Ji-Feng *see* **Wang, Le Yi et al., 2005d:93144**
Zhang, Xiaodong[3] (*with* Parisini, Thomas; Polycarpou, Marios M.) Sensor bias fault isolation in a class of nonlinear systems. (English summary) **2005i:93090**
Zhu, Xin Jian *see* **Wang, Zhen Bin et al., 2005e:93161**
Zhu, Yucai Estimation of an N-L-N Hammerstein-Wiener model. (English summary)

Items with secondary classifications in 93E12

Albera, Laurent (*with* Ferréol, Anne; Comon, Pierre; Chevalier, Pascal) Blind identification of overcomplete mixtures of sources (BIOME). (English summary) **2005f:94016**
Alcorta García, Ma. Aracelia *see* **Basin, Michael V., 2005d:93138**
Anderson, Brian D. O. *see* **Bombois, Xavier et al., 2005k:93050**
Bai, Er-Wei Identification of linear systems with hard input nonlinearities of known structure. (English summary) **2005k:93048**
— A blind approach to the Hammerstein-Wiener model identification. (English summary) **2005k:93049**
— Frequency domain identification of Wiener models. (English summary) **2005k:93217**
— A random least-trimmed-squares identification algorithm. (English summary)
— Outliers, inliers and the generalized least trimmed squares estimator in system identification. (English summary) **2005e:93149**
Basin, Michael V. (*with* Alcorta García, Ma. Aracelia) Optimal filtering for bilinear system states and its application to terpolymerization process identification. (English summary) **2005d:93138**
Bauer, Dietmar (*with* Ljung, Lennart) Some facts about the choice of the weighting matrices in Larimore type of subspace algorithms. (English summary) **2005k:93218**
Billings, Stephen A. (*with* Wei, H. L.) The wavelet-NARMAX representation: a hybrid model structure combining polynomial models with multiresolution wavelet decompositions. (English summary) **2005i:93027**
Bombois, Xavier (*with* Anderson, Brian D. O.; Gevers, Michel) Quantification of frequency domain error bounds with guaranteed confidence level in prediction error identification. (English summary) **2005k:93050**
Broersen, Piet M. T. Mean square error of the empirical transfer function estimator for stochastic input signals. (English summary)
Camps, Octavia *see* **Sznaier, Mario et al.**
Charalambous, C. D. (*with* Elliott, Robert J.; Krishnamurthy, Vikram) Conditional moment generating functions for integrals and stochastic integrals. (English summary) **2005c:93099**
Chen, Huixin *see* **Ruan, Rong Yao et al.**
Chen, Tong Wen *see* **Ding, Feng[2], 2005i:93094**
Chen, Xinkai (*with* Zhai, Guisheng) Robust control for a class of dynamical systems with uncertainties. (English summary) **2005c:93041**
Chen, Yang Quan *see* **Ma, Lili et al.**
Chevalier, Pascal *see* **Albera, Laurent et al., 2005f:94016**
Comon, Pierre *see* **Albera, Laurent et al., 2005f:94016**
Crama, Philippe (*with* Schoukens, Johan) Hammerstein-Wiener system estimator initialization. (English summary)
Del Vecchio, Domitilla (*with* Murray, Richard M.; Perona, Pietro) Decomposition of human motion into dynamics-based primitives with application to drawing tasks. (English summary) **2005k:93219**
Ding, Feng[2] (*with* Chen, Tong Wen) Hierarchical least squares identification methods for multivariable systems. (English summary) **2005i:93094**
— (*with* Chen, Tong Wen) Hierarchical identification of lifted state-space models for general dual-rate systems. (English summary)
Di Ruscio, David Subspace system identification of the Kalman filter. (English summary) **2005b:93154**
Duffie, Darrell (*with* Glynn, Peter W.) Estimation of continuous-time Markov processes sampled at random time intervals. (English summary) **2005e:62115**
Elliott, Robert J. (*with* Malcolm, W. P.) Robust M-ary detection filters and smoothers for continuous-time jump Markov systems. (English summary) **2005e:93153**
— *see also* **Charalambous, C. D. et al., 2005c:93099**
Ferréol, Anne *see* **Albera, Laurent et al., 2005f:94016**
Fetisov, V. N. Some problems of the robust control of a stochastic plant. (Russian. Russian summary) **2005e:93041**
Fursov, Vladimir Estimates conformity principle in the problems of identification. (English summary) **2005g:93035**
Gevers, Michel *see* **Bombois, Xavier et al., 2005k:93050**
Glynn, Peter W. *see* **Duffie, Darrell, 2005e:62115**
Guillaume, Patrick *see* **Vanlanduit, S., (2005c:62006)**
Gunther, Jacob H. (*with* López-Valcarce, Roberto) Blind input, initial state, and system identification of SIMO Laguerre systems. (English summary) **2005k:93056**
Guo, Zi Jun Stability of stochastic Lotka-Volterra systems. (Chinese. English and Chinese summaries) **2005g:60104**
Heath, William P. The variation of non-parametric estimates in closed-loop. (English summary)
Henry, David (*with* Zolghadri, A.; Monsion, M.; Ygorra, S.) Off-line robust fault diagnosis using the generalized structured singular value. (English summary)
Hjalmarsson, Håkan *see* **Ninness, Brett, 2005e:93040** *and* **2005e:93150**
Hwang, Shyh-Hong (*with* Lai, Shih-Tsung) Use of two-stage least-squares algorithms for identification of continuous systems with time delay based on pulse responses. (English summary)
Kacewicz, Bolesław Weighted average errors in set-membership estimation. (English summary) **2005h:93157**
Kalouptsidis, Nicholas *see* **Koukoulas, P. et al.**
Khosrowjerdi, M. J. (*with* Nikoukhah, Ramine; Safari-Shad, N.) A mixed $\mathscr{H}_2/\mathscr{H}_\infty$ approach to simultaneous fault detection and control. (English summary) **2005m:93046**
Kitagawa, Genshiro *see* **Tanokura, Yoko**
Koukoulas, P. (*with* Tsoulkas, V.; Kalouptsidis, Nicholas) A cumulant based algorithm for the identification of input–output quadratic systems. (English summary)
Krenk, Steen *see* **Rüdinger, Finn, 2005e:70036**
Krishnamurthy, Vikram *see* **Charalambous, C. D. et al., 2005c:93099**
Küchler, Uwe (*with* Vasiliev, Vyacheslav) Sequential identification of linear dynamic systems with memory. (English summary) **2005m:62146**
Lai, Shih-Tsung *see* **Hwang, Shyh-Hong**
Li, Bin *see* **Ruan, Rong Yao et al.**
Ljung, Lennart *see* **Bauer, Dietmar, 2005k:93218**
López-Valcarce, Roberto *see* **Gunther, Jacob H., 2005k:93056**
Ma, Jinghong *see* **Tugnait, Jitendra K.**
Ma, Lili (*with* Chen, Yang Quan; Moore, Kevin L.) Range identification for a perspective dynamic system with a single homogeneous observation. (English summary)
Mahata, Kaushik *see* **Söderström, Torsten et al.**
Malcolm, W. P. *see* **Elliott, Robert J., 2005e:93153**
Mazzaro, Cecilia *see* **Sznaier, Mario et al.**
Monsion, M. *see* **Henry, David et al.**
Moore, Kevin L. *see* **Ma, Lili et al.**
Murano, Daishi *see* **Poznyak, Alexander S. et al., 2005d:93023**
Murray, Richard M. *see* **Del Vecchio, Domitilla et al., 2005k:93219**
Nazin, Alexander V. *see* **Poznyak, Alexander S. et al., 2005d:93023**
Nepevný, Petr *see* **Vychodil, Hynek et al.**
Nikoukhah, Ramine *see* **Khosrowjerdi, M. J. et al., 2005m:93046**
Ninness, Brett (*with* Hjalmarsson, Håkan) The effect of regularization on variance error. (English summary) **2005e:93150**
— (*with* Hjalmarsson, Håkan) Variance error quantifications that are exact for finite-model order. (English summary) **2005e:93040**
Perona, Pietro *see* **Del Vecchio, Domitilla et al., 2005k:93219**
Pivoňka, Petr *see* **Vychodil, Hynek et al.**
Poznyak, Alexander S. (*with* Nazin, Alexander V.; Murano, Daishi) Observer matrix gain optimization for stochastic continuous time nonlinear systems. (English summary) **2005d:93023**
Ruan, Rong Yao (*with* Yang, Chang Li; Chen, Huixin; Li, Bin) On-line order estimation and parameter identification for linear stochastic feedback control systems (CARMA model). (English summary)
Rüdinger, Finn (*with* Krenk, Steen) Identification of nonlinear oscillator with parametric white noise excitation. (English summary) **2005e:70036**
Safari-Shad, N. *see* **Khosrowjerdi, M. J. et al., 2005m:93046**
Schmidt, Michal *see* **Vychodil, Hynek et al.**
Schoukens, Johan *see* **Crama, Philippe**
Semenikhin, K. V. Optimality of linear estimation algorithms in the minimax identification problem. (Russian. Russian summary) **2005h:62033**
Semushin, I. V. Identifying parameters of linear stochastic differential equations from incomplete noisy measurements. (English summary) (*see* **2005d:35008**)

Shaĭkin, M. E. Bilinear approximation of the equations of the optimal estimator of the state vector of a stochastic bilinear system. (Russian. Russian summary) **2005m:93146**
Söderström, Torsten (*with* Mahata, Kaushik; Soverini, Umberto) Identification of dynamic errors-in-variables models: approaches based on two-dimensional ARMA modeling of the data. (English summary)
Soverini, Umberto *see* **Söderström, Torsten et al.**
Sznaier, Mario (*with* Mazzaro, Cecilia; Camps, Octavia) Open-loop worst-case identification of nonSchur plants. (English summary)
Tanokura, Yoko (*with* Kitagawa, Genshiro) Power contribution analysis for multivariate time series with correlated noise sources. (English summary)
Tsoulkas, V. *see* **Koukoulas, P. et al.**
Tugnait, Jitendra K. (*with* Ma, Jinghong) A hypothesis testing approach to blind DS-CDMA user acquisition, identification, and detection via code-constrained successive cancellation. (English summary)
Vanlanduit, S. (*with* Guillaume, Patrick) Robust processing of mechanical vibration measurements. (English summary) (*see* **2005c:62006**)
Vasiliev, Vyacheslav *see* **Küchler, Uwe, 2005m:62146**
Vychodil, Hynek (*with* Schmidt, Michal; Nepevný, Petr; Pivoňka, Petr) Non-linear predictive control with a neural autoregressive model. (English summary)
Wang, Hong[4] (*with* Yue, Hong[2]) Detecting and diagnosing faults in dynamic stochastic distributions using a rational B-splines approximation to output PDFs. (English summary)
Wei, H. L. *see* **Billings, Stephen A., 2005i:93027**
Yan, Wen Jun *see* **Zheng, Jun[2] et al.**
Yang, Chang Li *see* **Ruan, Rong Yao et al.**
Ygorra, S. *see* **Henry, David et al.**
Yue, Hong[2] *see* **Wang, Hong[4]**
Zhai, Guisheng *see* **Chen, Xinkai, 2005c:93041**
Zheng, Jun[2] (*with* Yan, Wen Jun; Zhu, Jing[1]) Nonparametric identification approach based on wavelet approximation and scale transformation. (Chinese. English and Chinese summaries)
Zhu, Jing[1] *see* **Zheng, Jun[2] et al.**
Zolghadri, A. *see* **Henry, David et al.**

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Nakamori, Seiichi New design of fixed-lag smoother using covariance information in linear discrete-time stochastic systems. (English summary) **2005j:93077**
Pasik-Duncan, Bozenna Random walk around some problems in identification and stochastic adaptive control with applications to finance. (English summary) **2005b:93156**
Pavon, Michele (*with* Wimmer, Harald K.) Suboptimal Markovian smoothing estimates based on continuous curves of solutions of the algebraic Riccati inequality. (English summary)
Wimmer, Harald K. *see* **Pavon, Michele**

Items with secondary classifications in 93E14

Demetriou, I. C. Least squares convex-concave data smoothing. (English summary) **2005e:65009**
Jiang, Lin *see* **Wu, Qing-Hua et al., 2005e:93145**
Kiesmüller, Gudrun P. (*with* de Kok, A. G.; Smits, Sanne R.; van Laarhoven, Peter J. M.) Evaluation of divergent N-echelon (s, nQ)-policies under compound renewal demand. (English summary) **2005d:90008**
de Kok, A. G. *see* **Kiesmüller, Gudrun P. et al., 2005d:90008**
van Laarhoven, Peter J. M. *see* **Kiesmüller, Gudrun P. et al., 2005d:90008**
Lu, Xiao[1] *see* **Zhang, Huanshui et al.**
Smits, Sanne R. *see* **Kiesmüller, Gudrun P. et al., 2005d:90008**
Soh, Yeng Chai *see* **Zhang, Huanshui et al.**
Wang, Wei[5] *see* **Zhang, Huanshui et al.**
Wen, J. Y. *see* **Wu, Qing-Hua et al., 2005e:93145**
Wu, Qing-Hua (*with* Jiang, Lin; Wen, J. Y.) Decentralized adaptive control of interconnected non-linear systems using high gain observer. (English summary) **2005e:93145**
Xie, Lihua *see* **Zhang, Huanshui et al.**
Zhang, Huanshui (*with* Xie, Lihua; Soh, Yeng Chai) Risk-sensitive filtering, prediction and smoothing for discrete-time singular systems. (English summary)
— (*with* Xie, Lihua; Wang, Wei[5]; Lu, Xiao[1]) An innovation approach to H_∞ fixed-lag smoothing for continuous time-varying systems. (English summary)•

93E15 Stochastic stability

Akulenko, L. D. (*with* Kovaleva, A. S.) An asymptotic estimate for the probability and mean sojourn time of a moving target in a given domain. (Russian) **2005g:93118**
Battilotti, Stefano Stochastic stabilization of nonlinear systems in feedforward form with noisy outputs. (English summary) **2005g:93119**
Calafiore, Giuseppe (*with* Dabbene, Fabrizio) A probabilistic framework for problems with real structured uncertainty in systems and control. (English summary) **2005k:93232**
Chen, Tong Wen *see* **Xu, Sheng Yuan, 2005k:93235**
Chen, Wu Hua (*with* Guan, Zhi Hong; Lu, Xiao Mei) Delay-dependent exponential stability of uncertain stochastic systems with multiple delays: an LMI approach. (English summary) **2005k:93233**
Costa, Oswaldo L. V. (*with* Fragoso, Marcelo D.) Comments on: "Stochastic stability of jump linear systems" [IEEE Trans. Automat. Control **47** (2002), no. 7, 1204–1208; MR1911501] by Y. Fang and K. A. Loparo. (English summary)
Dabbene, Fabrizio *see* **Calafiore, Giuseppe, 2005k:93232**
Dong, Yuewu (*with* Sun, Ji-tao) Robust stochastic stability and H_∞ performance for a class of uncertain impulsive stochastic systems. (English summary) **2005m:93158**
Drăgan, Vasile (*with* Morozan, Toader; Stoica, Adrian) Stability radii for a class of differential stochastic systems. (English summary) **2005e:93162**
Elbeyli, O. (*with* Sun, Jian-Qiao; Ünal, Gazanfer) A semi-discretization method for delayed stochastic systems. (English summary) **2005e:93163**
Evans, Robin J. *see* **Nair, Girish N., 2005d:93145**
Fang, Tong *see* **Jin, Yan Fei et al.**
(Fang, Yuguang) *see* **Costa, Oswaldo L. V.**
Fragoso, Marcelo D. *see* **Costa, Oswaldo L. V.**
Guan, Xin Ping *see* **Hua, Changchun et al., 2005h:93173**
Guan, Zhi Hong *see* **Chen, Wu Hua et al., 2005k:93233**
Hou, Zhen Ting (*with* Luo, Jiaowan; Shi, Peng) Stochastic stability of linear systems with semi-Markovian jump parameters. (English summary) **2005k:93234**
Hua, Changchun (*with* Guan, Xin Ping; Shi, Yan) Robust adaptive control for a class of nonlinear stochastic time-delay systems. (English summary) **2005h:93173**
Huang, Zhi Long *see* **Zhu, W. Q., 2005d:93146**
Ismail, Abdulla (*with* Mahmoud, Magdi S.; Shi, Peng) Output feedback stabilization and disturbance attenuation of time-delay systems with Markovian jump parameters. (English summary) **2005g:93120**
Ji, Hai Bo *see* **Wang, Jun[8] et al., 2005e:93164**
Jin, Yan Fei (*with* Xu, Wei[3]; Xu, Meng[2]; Fang, Tong) Stochastic resonance in linear system due to dichotomous noise modulated by bias signal. (English summary)
Kang, Yu *see* **Wang, Jun[8] et al., 2005e:93164**
Keel, L. H. *see* **Sathananthan, S., 2005b:93157**
Kovaleva, A. S. *see* **Akulenko, L. D., 2005g:93118**
Ladde, G. S. Hybrid systems: convergence and stability analysis of stochastic large-scale approximation schemes. (English summary) **2005j:93078**
Lam, James *see* **Xu, Sheng Yuan, 2005f:93174**
Liew, K. M. (*with* Liu, Xian Bin) The maximal Lyapunov exponent for a three-dimensional stochastic system. (English summary) **2005f:93172**
Liu, Xian Bin *see* **Liew, K. M., 2005f:93172**
Liu, Yun-Gang (*with* Zhang, Ji-Feng) Reduced-order observer-based control design for nonlinear stochastic systems. (English summary) **2005a:93154**
(Loparo, Kenneth A.) *see* **Costa, Oswaldo L. V.**
Lu, Xiao Mei *see* **Chen, Wu Hua et al., 2005k:93233**
Luo, Jiaowan *see* **Hou, Zhen Ting et al., 2005k:93234**
Mahmoud, Magdi S. (*with* Shi, Peng) Optimal guaranteed cost filtering for Markovian jump discrete-time systems. **2005f:93173**
— *see also* **Ismail, Abdulla et al., 2005g:93120**
Morozan, Toader *see* **Drăgan, Vasile et al., 2005e:93162**
Nair, Girish N. (*with* Evans, Robin J.) Stabilizability of stochastic linear systems with finite feedback data rates. (English summary) **2005d:93145**
Sathananthan, S. (*with* Keel, L. H.) Connective practical stabilization of large-scale decentralized controlled stochastic systems. (English summary) **2005b:93157**
Shi, Peng *see* **Mahmoud, Magdi S., 2005f:93173; Ismail, Abdulla et al., 2005g:93120** *and* **Hou, Zhen Ting et al., 2005k:93234**
Shi, Yan *see* **Hua, Changchun et al., 2005h:93173**
Stoica, Adrian *see* **Drăgan, Vasile et al., 2005e:93162**
Sun, Ji-tao *see* **Dong, Yuewu, 2005m:93158**
Sun, Jian-Qiao *see* **Elbeyli, O. et al., 2005e:93163**
Ünal, Gazanfer *see* **Elbeyli, O. et al., 2005e:93163**
Wang, Jun[8] (*with* Xi, Hong Sheng; Ji, Hai Bo; Kang, Yu) Robust adaptive control for a class of stochastic nonlinear systems based on gradient algorithms. (Chinese. English and Chinese summaries) **2005e:93164**
Xi, Hong Sheng *see* **Wang, Jun[8] et al., 2005e:93164**
Xu, Meng[2] *see* **Jin, Yan Fei et al.**
Xu, Sheng Yuan (*with* Lam, James) Robust output feedback stabilization of uncertain discrete time-delay stochastic systems with multiplicative noise. (English summary) **2005f:93174**
— (*with* Chen, Tong Wen) Robust H_∞ control for uncertain discrete-time stochastic bilinear systems with Markovian switching. (English summary) **2005k:93235**
Xu, Wei[3] *see* **Jin, Yan Fei et al.**
Yin, Gang George (*with* Zhang, Qing[1]) Stability of nonlinear hybrid systems. (English summary) **2005b:93158**
— (*with* Zhang, Qing[1]) Stability of Markov modulated discrete-time dynamic systems. (English summary) **2005k:93236**
Zhang, Ji-Feng *see* **Liu, Yun-Gang, 2005a:93154**
Zhang, Qing[1] *see* **Yin, Gang George, 2005b:93158** *and* **2005k:93236**
Zhu, W. Q. (*with* Huang, Zhi Long) Stochastic stabilization of quasi non-integrable Hamiltonian systems. (English summary) **2005d:93146**
— Feedback stabilization of quasi nonintegrable Hamiltonian systems by using Lyapunov exponent. (English summary) **2005f:93175**

Items with secondary classifications in 93E15

Agarwal, Ramesh K. *see* **Mahmoud, Magdi S. et al., 2005h:93051**
Agastya, Murali Stochastic stability in a double auction. (English summary) **2005d:91043**
Agrawal, Rajeev (*with* Baccelli, François; Rajan, Rajendran) An algebra for queueing networks with time-varying service and its application to the analysis of integrated service networks. (English summary) **2005h:60268**
Antsaklis, Panos J. *see* **Montestruque, Luis A., 2005c:90011**
Arnold, Ludwig (*with* Chueshov, Igor D.; Ochs, Gunter) Random dynamical systems methods in ship stability: a case study. (English summary) **2005k:34216**
Baccelli, François *see* **Agrawal, Rajeev et al., 2005h:60268**
Bauer, Dietmar Order estimation for subspace methods. (English summary)
Boukas, E. K. (*with* Liu, Zi-Kuan) Delay-dependent stabilization of singularly perturbed jump linear systems. (English summary) **2005a:93130**
— Nonfragile controller design for linear Markovian jumping parameters systems. (English summary) **2005d:93097**
— Nonfragile robust controller for linear Markovian jumping parameter systems with multiplicative Brownian disturbance. (English summary) **2005d:93133**
Buche, Robert (*with* Kushner, Harold J.) Control of mobile communication systems with time-varying channels via stability methods. (English summary) **2005f:90019**
Chang, Hyeong Soo On ordinal comparison of policies in Markov reward processes. (English summary) **2005e:93166**
Chen, Bor-Sen *see* **Zhang, Wei Hai, 2005m:93134**

Chen, Wu Hua (*with* Guan, Zhi Hong; Lu, Xiao Mei) Delay-dependent robust stabilization and H_∞-control of uncertain stochastic systems with time-varying delay. (English summary) **2005e:93044**
— (*with* Guan, Zhi Hong; Yu, Pei[1]) Delay-dependent stability and H_∞ control of uncertain discrete-time Markovian jump systems with mode-dependent time delays. (English summary) **2005b:93112**
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— (*with* Øksendal, Bernt K.; Sulem, Agnès) Errata corrige: "Sufficient stochastic maximum principle for the optimal control of jump diffusions and applications to finance" [J. Optim. Theory Appl. **121** (2004), no. 1, 77–98; MR2062971 (2005d:93148)]. (English summary) **2005j:93079**
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Yan, Xiang Ping (*with* Chang, Ying Xiang; Zhang, Cun Hua) Qualitative analysis of a kind of multimolecules reaction model. (Chinese. English and Chinese summaries)

Yang, Rui-Cheng (*with* Liu, Kun Hui; Xia, Bing) Optimal impulse and regular control strategies for proportional reinsurance problem. (English summary) **2005k:93246**

Yao, David D. (*with* Zhang, Shu Zhong; Zhou, Xun Yu) Stochastic linear-quadratic control via primal-dual semidefinite programming. (English summary) **2005h:93178**

Ying, Z. G. (*with* Ni, Yi Qing; Ko, Jan Ming) Non-linear stochastic optimal control for coupled-structures system of multi-degree-of-freedom. (English summary) **2005e:93171**

Yu, Wen[1] *see* **Guo, Xianping et al.**

Zes, Dean *see* **Margulies, William, 2005k:93238**

Zhang, Cun Hua *see* **Yan, Xiang Ping et al.**

Zhang, Li Qian[2] *see* **Huang, Xin et al., 2005b:93162**

Zhang, Shu Zhong *see* **Yao, David D. et al., 2005h:93178**

Zhao, Jun Feng[2] *see* **Li, Wei**[16] **et al., 2005m:93163**

Zhou, Xun Yu *see* **Li, Xun**[1]**, 2005f:93178**; **Yao, David D. et al., 2005h:93178** *and* **Lim, Andrew E. B. et al.**

Zhou, Yi Shao *see* **Jönsson, Ulf T. et al., 2005c:93106**

Zhu, Jinghao On stochastic Riccati equations for the stochastic LQR problem. (English summary) **2005g:93124**

Zhu, Qixin *see* **Hu, Shou Song**

Zhu, W. Q. (*with* Huang, Zhi Long; Ko, Jan Ming; Ni, Yi Qing) Optimal feedback control of strongly non-linear systems excited by bounded noise. (English summary) **2005e:93172**

Zidani, Housnaa *see* **Bonnans, Joseph Frédéric et al., 2005e:93165**

Zohoor, Hassan *see* **Marzbanrad, Javad et al., 2005e:93169**

Items with secondary classifications in 93E20

Adachi, Takashi[2] The value of the perpetual American call on the time-average of the stock. (English summary) **2005a:91051**

Adamo, Massimiliano (*with* Amadori, Anna Lisa; Bernaschi, Massimo; La Chioma, Claudia; Marigo, Alessia; Piccoli, Benedetto; Sbaraglia, Simone; Uboldi, Adamo; Vergni, Davide; Fabbri, Paola; Iacovoni, Davide; Natale, Francesco; Scalera, Stefano; Spilotro, Lucia; Valletta, Antonella) Optimal strategies for the issuances of public debt securities. (English summary)

Ahmed, N. U. Impulsive stochastic evolution inclusions with multi valued diffusion. (English summary) (*see* **2005d:00012**)

— (*with* Li, Cheng[2]) Optimum feedback strategy for access control mechanism modelled as stochastic differential equation in computer network. (English summary) **2005g:93077**

Akulenko, L. D. (*with* Kovaleva, A. S.) An asymptotic estimate for the probability and mean sojourn time of a moving target in a given domain. (Russian) **2005g:93118**

Allahverdiyeva, Jalala J. Maximum principle for one problem of stochastic optimal control with variable delay. (English summary) **2005h:49073**

Amadori, Anna Lisa *see* **Adamo, Massimiliano et al.**

Anderson, C. K. (*with* Davison, Matt; Rasmussen, Henning) Revenue management: a real options approach. (English summary) **2005a:90007**

Arkin, Adam P. *see* **Wolf, Denise M. et al.**

Ata, Barış (*with* Harrison, J. Michael; Shepp, Larry A.) Drift rate control of a Brownian processing system. (English summary) **2005k:60265**

Atar, Rami (*with* Mandelbaum, Avishai; Reiman, Martin I.) Scheduling a multi class queue with many exponential servers: asymptotic optimality in heavy traffic. (English summary) **2005d:90028**

— (*with* Shwartz, Adam; Dupuis, Paul) Explicit solution for a network control problem in the large deviation regime. (English summary) **2005g:60042**

Aurell, Erik (*with* Muratore-Ginanneschi, Paolo) Growth-optimal strategies with quadratic friction over finite-time investment horizons. (English summary)

Aurnhammer, Andreas (*with* Marti, Kurt) Real-time robust optimal trajectory planning of industrial robots. (English summary) **2005a:93114**

Back, Kerry Incomplete and asymmetric information in asset pricing theory. **2005k:91141**

Barro, Diana (*with* Canestrelli, Elio) Dynamic portfolio optimization: time decomposition using the maximum principle with a scenario approach. (English summary) **2005j:91036**

Bassan, Bruno *see* **Ceci, Claudia, 2005h:60120**

Baten, Md. Azizul On the smoothness of solutions of linear-quadratic regulator for degenerate diffusions. (English summary) **2005m:49060**

Battauz, A. (*with* Pratelli, Maurizio) Optimal stopping and American options with discrete dividends and exogenous risk. (English summary) **2005f:91062**

Bäuerle, Nicole (*with* Rieder, Ulrich) Portfolio optimization with Markov-modulated stock prices and interest rates. (English summary) **2005b:91101**

— Approximation of optimal reinsurance and dividend payout policies. (English summary) **2005d:91065**

Benhadid, Yacine *see* **Bounkhel, Messaoud et al., 2005h:49093**

Bensoussan, Alain Remarks on the pricing of contingent claims under constraints. (English summary) **2005b:91102**

Bernaschi, Massimo *see* **Adamo, Massimiliano et al.**

Biagini, Sara (*with* Frittelli, Marco) On the super replication price of unbounded claims. (English summary) **2005h:91096**

Bielecki, Tomasz R. (*with* Jeanblanc-Picqué, Monique; Rutkowski, Marek) Pricing and hedging of credit risk: replication and mean-variance approaches. I. (English summary) **2005f:91064**

— (*with* Jeanblanc-Picqué, Monique; Rutkowski, Marek) Pricing and hedging of credit risk: replication and mean-variance approaches. II. (English summary) **2005f:91065**

— (*with* Pliska, Stanley R.) Risk-sensitive ICAPM with application to fixed-income management. (English summary) **2005b:91105**

— (*with* Jin, Hanqing; Pliska, Stanley R.; Zhou, Xun Yu) Continuous-time mean-variance portfolio selection with bankruptcy prohibition. (English summary) **2005m:91090**

Bobrovnits′ka, Ol′ga (*with* Schweizer, Martin) Mean-variance hedging and stochastic control: beyond the Brownian setting. (English summary) **2005c:91051**

Boda, Kang (*with* Filar, Jerzy A.; Lin, Yuanlie; Spanjers, Lieneke) Stochastic target hitting time and the problem of early retirement. (English summary) **2005b:91106**

Bouchard, Bruno (*with* Touzi, Nizar; Zeghal, Amina) Dual formulation of the utility maximization problem: the case of nonsmooth utility. (English summary) **2005a:91042**

Bounkhel, Messaoud (*with* Tadj, Lotfi; Benhadid, Yacine) Optimal control of a production system with inventory-level-dependent demand. (English summary) **2005h:49093**

Buckdahn, Rainer (*with* Ichihara, Naoyuki) Limit theorem for controlled backward SDEs and homogenization of Hamilton-Jacobi-Bellman equations. (English summary) **2005j:60131**

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Castañeda-Leyva, Netzahualcóyotl (*with* Hernández-Hernández, Daniel) Optimal portfolio management with consumption. (English summary) **2005e:93032**

van Casteren, Jan A. The Hamilton-Jacobi-Bellman equation and the stochastic Noether theorem. **2005d:49047**

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— (*with* Bassan, Bruno) Mixed optimal stopping and stochastic control problems with semicontinuous final reward for diffusion processes. (English summary) **2005h:60120**

Chang, Fwu-Ranq ★ Stochastic optimization in continuous time. **2005b:91001**

Chen, Shinn-Horng (*with* Chou, Jyh-Horng) Robust stability analysis for discrete-time LQG system under finite wordlength effects, noise uncertainties and time-varying structured parameter perturbations. (English summary) **2005c:93065**

Chen, Xi[4] (*with* Zhou, Xun Yu) Stochastic linear-quadratic control with conic control constraints on an infinite time horizon. (English summary) **2005k:49099**

Chen, Xian Qiang (*with* Zhao, Yi[1]) Finite-dimensional feedback control of a reaction-diffusion equation. (Chinese. English and Chinese summaries) **2005h:93072**

Chiarella, Carl (*with* Clewlow, Les; Musti, Silvana) A volatility decomposition control variate technique for Monte Carlo simulations of Heath Jarrow Morton models. (English summary)

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Choi, Seungmook S. (*with* Marcozzi, M. D.) On the application of MQ-RBF to the valuation of derivative securities. (English summary) **2005g:91098**

Chou, Jyh-Horng *see* **Chen, Shinn-Horng, 2005c:93065**

Clewlow, Les *see* **Chiarella, Carl et al.**

Costa, Eduardo F. (*with* do Val, João B. R.; Fragoso, Marcelo D.) On a detectability concept of discrete-time infinite Markov jump linear systems. (English summary) **2005k:90200**

Costa, Oswaldo L. V. (*with* Dufour, François) On the Poisson equation for piecewise-deterministic Markov processes. (English summary) **2005b:60190**

— (*with* Fragoso, Marcelo D.; Marques, R. P.) ★ Discrete-time Markov jump linear systems. **2005i:93002**

Crespo, Luis G. (*with* Sun, Jian-Qiao) Stochastic optimal control via Bellman's principle. (English summary)

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Cuzzola, Francesco Alessandro (*with* Geromel, Jose C.; Morari, Manfred) An improved approach for constrained robust model predictive control. (English summary)

— *see also* **Mao, Wei-Jie**

Czornik, Adam (*with* Świerniak, Andrzej) On the continuous time-varying JLQG. (English summary) **2005e:49068**

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Dai, Min[2] *see* **Jiang, Lishang, 2005j:91041**

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Derieva, E. N. (*with* Pepelyaeva, T. V.) On a problem of the control of random processes. (Russian. English and Ukrainian summaries) **2005f:49056**

Dombrovskiĭ, V. V. (*with* Lyashenko, E. A.) Linear-quadratic control of discrete systems with random parameters and multiplicative noise with an application to the optimization of an investment portfolio. (Russian. Russian summary) **2005e:49069**

— *see also* **Gal′perin, V. A. et al., 2005m:91098**

Dong, Cheng Fei *see* **Yuan, Qing Sheng et al., 2005f:91082**

Drăgan, Vasile (*with* Morozan, Toader; Stoica, Adrian) Stability radii for a class of differential stochastic systems. (English summary) **2005e:93162**

Du, Rong (*with* Hu, Qiying; Meng, Zhiqing) Modeling the dynamic optimal advertising in stochastic condition. (English summary)

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Ferris, Michael C. (*with* Voelker, Meta M.) Fractionation in radiation treatment planning. (English summary)
Filar, Jerzy A. (*with* Haurie, Alain) A two-factor stochastic production model with two time scales. (English summary)
— *see also* **Boda, Kang et al., 2005b:91106**
Fisher, Lance A. (*with* Kingston, Geoffrey H.) Theory of tax smoothing in the small open economy. (English summary)
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Gal′perin, V. A. (*with* Dombrovskiĭ, V. V.; Fedosov, E. N.) Dynamic management of an investment portfolio in a jump-diffusion financial market with switching modes. (Russian. Russian summary) **2005m:91098**
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Guo, Xin (*with* Liu, Jun; Zhou, Xun Yu) A constrained non-linear regular-singular stochastic control problem, with applications. (English summary) **2005g:49054**
— (*with* Pham, Huyên) Optimal partially reversible investment with entry decision and general production function. (English summary) **2005m:60143**
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Hanson, Floyd B. (*with* Westman, John J.) Optimal portfolio and consumption policies subject to Rishel's important jump events model: computational methods. (English summary) **2005b:91116**
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Huang, Li Hong[1] *see* **Yang, Zhaojun, 2005m:91115**
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— *see also* **Bielecki, Tomasz R. et al., 2005f:91064** *and* **2005f:91065**
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Mahmoud, Magdi S. (*with* Shi, Peng) Optimal guaranteed cost filtering for Markovian jump discrete-time systems. **2005f:93173**
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Mao, Wei-Jie Robust stabilization of uncertain time-varying discrete systems and comments on: "An improved approach for constrained robust model predictive control" [Automatica J. IFAC **38** (2002), no. 8, 1183–1189; MR2133479] by F. A. Cuzzola, J. C. Geromel and M. Morari. (English summary)
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Pham, Huyên *see* **Pagès, Gilles et al.**, 2005i:65014 *and* **Guo, Xin**, 2005m:60143
Piccoli, Benedetto *see* **Adamo, Massimiliano et al.**
Piunovskiĭ, A. B. Optimal interventions in countable jump Markov processes. (English summary) **2005e:60194**
Pliska, Stanley R. *see* **Bielecki, Tomasz R. et al.**, 2005b:91105 *and* 2005m:91090
Pratelli, Maurizio *see* **Battauz, A.**, 2005f:91062
Printems, Jacques *see* **Pagès, Gilles et al.**, 2005i:65014
Protas, Bartosz Linear feedback stabilization of laminar vortex shedding based on a point vortex model. (English summary) **2005g:76048**
Pukhlikov, Aleksandr V. Optimal control of distributions. (English summary) **2005f:49074**
Quenez, Marie-Claire Optimal portfolio in a multiple-priors model. (English summary) **2005h:91116**
Rasmussen, Henning *see* **Anderson, C. K. et al.**, 2005a:90007 *and* **Thompson, Matt et al.**
Reiman, Martin I. *see* **Atar, Rami et al.**, 2005d:90028
Rieder, Ulrich *see* **Bäuerle, Nicole**, 2005b:91101
Riley, George F. *see* **Sun, Gang**[1] **et al.**, 2005h:93105
Risebro, Nils Henrik *see* **Larssen, Bjørnar**, 2005h:49074
Rogers, L. C. G. Why is the effect of proportional transaction costs $O(\delta^{2/3})$? (English summary) **2005h:91117**
Rong, Xi Min (*with* Deng, Li Hong) Security portfolio with very small loss. (Chinese. English and Chinese summaries)
Runggaldier, Wolfgang J. *see* **Dai Pra, Paolo et al.**, 2005c:91055
Rust, John *see* **Santos, Manuel S.**, 2005d:90136
Rutkowski, Marek *see* **Bielecki, Tomasz R. et al.**, 2005f:91064 *and* 2005f:91065
Sağlam, Vadat (*with* Torun, Hakan) On optimization of stochastic service system with two heterogeneous channels. (English summary)
Salem-Silva, Francisco *see* **Cruz-Suárez, Daniel et al.**, 2005k:90201
Sammartino, Marco Asymptotic methods in option pricing. (English summary) (*see* 2005c:00016)
Santos, Manuel S. (*with* Rust, John) Convergence properties of policy iteration. (English summary) **2005d:90136**
Sass, Jörn (*with* Haussmann, Ulrich G.) Portfolio optimization under partial information: stochastic volatility in a hidden Markov model. (English summary) **2005e:91092**
Sathananthan, S. (*with* Keel, L. H.) Connective practical stabilization of large-scale decentralized controlled stochastic systems. (English summary) **2005b:93157**
Sbaraglia, Simone *see* **Adamo, Massimiliano et al.**
Scalera, Stefano *see* **Adamo, Massimiliano et al.**
Schäl, Manfred *see* **Forwick, Lothar et al.**, 2005c:49063
Schmitz, Michael *see* **Forwick, Lothar et al.**, 2005c:49063
Schweizer, Martin *see* **Bobrovnits′ka, Ol′ga**, 2005c:91051
Sethi, Suresh P. (*with* Zhang, Han Qin; Zhang, Qing[1]) ★ Average-cost control of stochastic manufacturing systems. **2005k:93002**
Shepp, Larry A. *see* **Ata, Barış et al.**, 2005k:60265
Shi, Peng *see* **Mahmoud, Magdi S. et al.**, 2005f:93173 *and* 2005m:93048
Shi, Yan *see* **Mahmoud, Magdi S. et al.**, 2005m:93048
Shmerling, Efraim *see* **Hochberg, Kenneth J.**, 2005i:60159
Shwartz, Adam *see* **Atar, Rami et al.**, 2005g:60042
Sircar, K. Ronnie *see* **Jonsson, Mattias**, 2005b:91120 *and* **Ilhan, Aytac et al.**, 2005e:91080
Situ, Rong On solutions of backward stochastic differential equations with jumps and stochastic control. (English summary) **2005i:60113**
Söderlind, Paul *see* **Giordani, Paolo**[2], 2005e:91124
Soner, H. Mete ★ Stochastic optimal control in finance. **2005m:93002**
Spanjers, Lieneke *see* **Boda, Kang et al.**, 2005b:91106
Spilotro, Lucia *see* **Adamo, Massimiliano et al.**
Stachurski, John *see* **Nishimura, Kazuo**, 2005k:91222
Stengel, Robert F. (*with* Ghigliazza, Raffaele) Stochastic optimal therapy for enhanced immune response. (English summary)
Stettner, Lukasz Duality and risk sensitive portfolio optimization. (English summary) **2005d:91060**
Stoica, Adrian *see* **Drăgan, Vasile et al.**, 2005e:93162
Sudderth, William D. *see* **Laraki, Rida**, 2005e:60091
Sun, Gang[1] (*with* Cassandras, Christos G.; Wardi, Yoraï; Panayiotou, Christos G.; Riley, George F.) Perturbation analysis and optimization of stochastic flow networks. (English summary) **2005h:93105**
Sun, Jian-Qiao *see* **Crespo, Luis G.**
Sun, Shi Liang Explicit structure of the solution of a symmetric variational equation of stationary type. (Chinese. English and Chinese summaries)
Sung, Joo-Ho *see* **Haberman, Steven**, 2005k:91184
Świerniak, Andrzej *see* **Czornik, Adam**, 2005e:49068
Tadj, Lotfi *see* **Bounkhel, Messaoud et al.**, 2005h:49093
Taksar, Michael *see* **Højgaard, Bjarne**, 2005c:91058
Teneketzis, Demosthenis *see* **Javidi, Tara**, 2005b:93050
Tessitore, Gianmario *see* **Fuhrman, Marco**, 2005b:60167
Thompson, Matt (*with* Davison, Matt; Rasmussen, Henning) Valuation and optimal operation of electric power plants in competitive markets. (English summary)
Timofeeva, G. A. Nonlinear confidence estimates for statistically uncertain systems. (Russian. Russian summary) **2005e:93095**
— *see also* **Nikonov, O. I.**, 2005b:91127
Tolotti, Marco *see* **Dai Pra, Paolo et al.**, 2005c:91055
Torun, Hakan *see* **Sağlam, Vadat**
Touzi, Nizar ★ Stochastic control problems, viscosity solutions and application to finance. **2005h:93001**
— *see also* **Bouchard, Bruno et al.**, 2005a:91042
Uboldi, Adamo *see* **Adamo, Massimiliano et al.**
Ugrinovskiĭ, V. A. (*with* Petersen, Ian R.) Robust output feedback stabilization via risk-sensitive control. (English summary) **2005k:93192**
— Randomized algorithms for robust stability and guaranteed cost control of stochastic jump parameter systems with uncertain switching policies. (English summary) **2005k:93166**
do Val, João B. R. *see* **Costa, Eduardo F. et al.**, 2005k:90200
Valletta, Antonella *see* **Adamo, Massimiliano et al.**
Vazirani, Vijay V. *see* **Wolf, Denise M. et al.**
Vergni, Davide *see* **Adamo, Massimiliano et al.**
Vigna, Elena *see* **Gerrard, Russell et al.**, 2005g:91119
Viot, M. *see* **Kleptsyna, M. L. et al.**, 2005j:60083
Viscolani, Bruno *see* **Grosset, Luca**, 2005d:90062
Voelker, Meta M. *see* **Ferris, Michael C.**
Wang, Hai Jun[2] (*with* Hu, Shi Geng; Zhang, Xue-qing) Portfolio, stochastic economic growth and effects of government policies. (English and Chinese summaries) **2005c:91099**
Wang, Shou Yang *see* **Zhu, Shu-Shang et al.**, 2005e:91097
Wardi, Yoraï *see* **Sun, Gang**[1] **et al.**, 2005h:93105
Wei, Mu Sheng (*with* De Pierro, Alvaro R.; Yin, Jiahong) Iterative methods based on polynomial interpolation filters to detect discontinuities and recover point values from Fourier data. (English summary) **2005j:42004**
Westman, John J. *see* **Hanson, Floyd B.**, 2005b:91116
Wolf, Denise M. (*with* Vazirani, Vijay V.; Arkin, Adam P.) Diversity in times of adversity: probabilistic strategies in microbial survival games. (English summary)
Wong, Samuel Po-Shing *see* **Lai, Tze Leung**, 2005b:91121
Wu, Cheng-Ru *see* **Lin, Chin-Tsai**, 2005h:91139
Wu, Zhen Forward-backward stochastic differential equations, linear quadratic stochastic optimal control and nonzero sum differential games. (English summary) **2005m:60127**
Wybraniec, Jacek The range of American contingent claims prices in the jump-diffusion model. (English summary) **2005b:91137**
Xu, Shi Meng (*with* Zhang, Yu Zhong[1]) The properties of discount asset optimization under transaction costs. (Chinese. English and Chinese summaries) **2005b:91138**
Xue, Ming Gao A consumption-investment growth model. (Chinese. English and Chinese summaries)
Yang, Rui-Cheng (*with* Liu, Kun Hui) Optimal singular stochastic problem on harvesting system. (English summary) **2005j:91061**
Yang, Zhaojun (*with* Huang, Li Hong[1]) Optimal portfolio strategies with a liability and random risk: the case of different lending and borrowing rates. (English summary) **2005m:91115**
Yin, Gang George (*with* Zhou, Xun Yu) Markowitz's mean-variance portfolio selection with regime switching: from discrete-time models to their continuous-time limits. (English summary) **2005b:91139**
Yin, Jiahong *see* **Wei, Mu Sheng et al.**, 2005j:42004
Ying, Z. G. (*with* Ni, Yi Qing; Ko, Jan Ming) Semi-active optimal control of linearized systems with multi-degree of freedom and application. (English summary) **2005g:74086**
Yokomizo, Hiroyuki (*with* Haccou, Patsy; Iwasa, Yoh) Multiple-year optimization of conservation effort and monitoring effort for a fluctuating population. (English summary)
Young, Virginia R. Pricing in an incomplete market with an affine term structure. (English summary) **2005d:91062**
Yu, Haining (*with* Cassandras, Christos G.) Perturbation analysis for production control and optimization of manufacturing systems. (English summary)
Yuan, Qing Sheng (*with* Dong, Cheng Fei; Huang, Jian Guo) A Riemannian geometry underlying stochastic algorithm for log-optimal portfolio problem with risk control. (Chinese. English and Chinese summaries) **2005f:91082**
Zagrodny, Dariusz *see* **Gajek, Lesław**, 2005d:91067
Zariphopoulou, Thaleia *see* **Musiela, Marek**, 2005j:91044
Zeevi, Assaf *see* **Harrison, J. Michael**, 2005a:90081
Zeghal, Amina *see* **Bouchard, Bruno et al.**, 2005a:91042
Zhang, Han Qin *see* **Sethi, Suresh P. et al.**, 2005k:93002
Zhang, Qing[1] *see* **Sethi, Suresh P. et al.**, 2005k:93002

Zhang, Xue-qing *see* **Wang, Hai Jun[2] et al., 2005c:91099**
Zhang, Yu Zhong[1] *see* **Xu, Shi Meng, 2005b:91138**
Zhao, Yi[1] *see* **Chen, Xian Qiang, 2005h:93072**
Zhou, Xun Yu *see* **Yin, Gang George, 2005b:91139; Guo, Xin et al., 2005g:49054; Chen, Xi[4], 2005k:49099** *and* **Bielecki, Tomasz R. et al., 2005m:91090**
Zhu, Shu-Shang (*with* Li, Duan; Wang, Shou Yang) Risk control over bankruptcy in dynamic portfolio selection: a generalized mean-variance formulation. (English summary) **2005e:91097**
Zhu, W. Q. (*with* Huang, Zhi Long) Stochastic stabilization of quasi non-integrable Hamiltonian systems. (English summary) **2005d:93146**
— (*with* Deng, M. L.) Optimal bounded control for minimizing the response of quasi-integrable Hamiltonian systems. (English summary) **2005e:70025**

Items listed otherwise than by author

Lecture Notes in Economics and Mathematical Systems *see* **Kraft, Holger, 2005b:91006**

93E24 Least squares and related methods

Bai, Er-Wei A random least-trimmed-squares identification algorithm. (English summary)
Chang, Dong-Xia (*with* Feng, Da-Zheng; Zheng, Wei Xing[1]; Li, Lei) A fast recursive total least squares algorithm for adaptive IIR filtering. (English summary) **2005i:93093**
Chen, Tong Wen *see* **Ding, Feng[2], 2005i:93094** *and* **2005i:93095**
Chien, Chiang-Ju (*with* Yao, Chia-Yu) Iterative learning of model reference adaptive controller for uncertain nonlinear systems with only output measurement. (English summary)
Ding, Feng[2] (*with* Chen, Tong Wen) Hierarchical least squares identification methods for multivariable systems. (English summary) **2005i:93094**
— (*with* Chen, Tong Wen) Performance bounds of forgetting factor least-squares algorithms for time-varying systems with finite meaurement data. (English summary) **2005i:93095**
Feng, Da-Zheng *see* **Chang, Dong-Xia et al., 2005i:93093**
Lee, Jay H. *see* **Robertson, Douglas G., 2005k:93247**
Li, Lei *see* **Chang, Dong-Xia et al., 2005i:93093**
Robertson, Douglas G. (*with* Lee, Jay H.) On the use of constraints in least squares estimation and control. (English summary) **2005k:93247**
Yao, Chia-Yu *see* **Chien, Chiang-Ju**
Zheng, Wei Xing[1] *see* **Chang, Dong-Xia et al., 2005i:93093**

Items with secondary classifications in 93E24

Alexiou, Constantin *see* **Papaodysseus, Constantin et al.**
Arıkan, Orhan *see* **Pınar, Mustafa Ç., 2005e:65060**
Baksalary, Jerzy K. A new approach to the concept of a strong unified-least-squares matrix. (English summary) **2005h:15014**
Bolkvadze, G. R. A class of Hammerstein models in problems of the identification of stochastic systems. (Russian. Russian summary) **2005h:93171**
Burke, James V. (*with* Luke, D. Russell) Variational analysis applied to the problem of optical phase retrieval. (English summary) **2005b:78012**
Caballero-Águila, Raquel *see* **Nakamori, Seiichi et al., 2005c:93096**
Cao, Xi-Ren A sensitivity view of Markov decision processes and reinforcement learning. (English summary) **2005a:90175**
Chi, Zheru *see* **Huang, De-Shuang et al., 2005i:65073**
De Doná, José A. *see* **Goodwin, Graham C. et al., 2005c:93001**
Deng, Tian-Bo Design of arbitrary-phase variable digital filters using SVD-based vector-array decomposition. (English summary) **2005h:93164**
Dunne, Bruce E. (*with* Williamson, Geoffrey A.) Analysis of gradient algorithms for TLS-based adaptive IIR filters. (English summary) **2005g:93112**
Goodwin, Graham C. (*with* Serón, María M.; De Doná, José A.) ★ Constrained control and estimation. **2005c:93001**
Gubanov, V. S. ★ Обобщенный метод наименьших квадратов. (Russian. Russian summary) [The generalized method of least squares] **2005e:65010**
Hasiewicz, Zygmunt (*with* Mzyk, Grzegorz) Combined parametric-nonparametric identification of Hammerstein systems. (English summary) **2005c:93102**
Hermoso Carazo, Aurora *see* **Nakamori, Seiichi et al., 2005c:93096**
Horace, H. S. Ip *see* **Huang, De-Shuang et al., 2005i:65073**
Huang, De-Shuang (*with* Horace, H. S. Ip; Law, Ken Chee Keung; Chi, Zheru; Wong, H. S.) A new partitioning neural network model for recursively finding arbitrary roots of higher order arbitrary polynomials. (English summary) **2005i:65073**
Kalaba, Robert E. (*with* Natsuyama, H.) Dynamic programming and minimal norm solutions of least squares problems. **2005e:90147**
Kan, Rui[2] Adaptive switching control of discrete time nonlinear systems based on multiple models. (English summary)
Lagoudakis, Michail G. (*with* Parr, Ronald) Least-squares policy iteration. (English summary) **2005k:68172**
Law, Ken Chee Keung *see* **Huang, De-Shuang et al., 2005i:65073**
Linares Pérez, Josefa *see* **Nakamori, Seiichi et al., 2005c:93096**
Lovera, Marco *see* **Previdi, F.** *and* **Young, P. C.**
Luke, D. Russell *see* **Burke, James V., 2005b:78012**
Mäkilä, Pertti M. On optimal LTI approximation of nonlinear systems. (English summary) **2005b:93096**
Mzyk, Grzegorz *see* **Hasiewicz, Zygmunt, 2005c:93102**
Nakamori, Seiichi (*with* Caballero-Águila, Raquel; Hermoso Carazo, Aurora; Linares Pérez, Josefa) Quadratic estimation from uncertain observations with white plus coloured noises using covariance information. (English summary) **2005c:93096**
Natsuyama, H. *see* **Kalaba, Robert E., 2005e:90147**
Panagopoulos, Thanasis E. *see* **Papaodysseus, Constantin et al.**
Papaodysseus, Constantin (*with* Alexiou, Constantin; Roussopoulos, George D; Panagopoulos, Thanasis E.) Quantization effects and stabilization of the fast-Kalman algorithm. (English summary)
Parr, Ronald *see* **Lagoudakis, Michail G., 2005k:68172**
Petersen, Ian R. *see* **Yoon, Myung-Gon et al., 2005c:93101**
Pınar, Mustafa Ç. (*with* Arıkan, Orhan) On robust solutions to linear least squares problems affected by data uncertainty and implementation errors with application to stochastic signal modeling. (English summary) **2005e:65060**
Prajna, Stephen *see* **Wu, Fen, 2005m:93054**
Previdi, F. (*with* Lovera, Marco) Identification of non-linear parametrically varying models using separable least squares. (English summary)
— *see also* **Young, P. C.**
Roussopoulos, George D *see* **Papaodysseus, Constantin et al.**
Serón, María M. *see* **Goodwin, Graham C. et al., 2005c:93001**
Stubberud, Allen R. Sequential target tracking using constrained nonlinear estimators. (English summary)
Ugrinovskiĭ, V. A. *see* **Yoon, Myung-Gon et al., 2005c:93101**
Williamson, Geoffrey A. *see* **Dunne, Bruce E., 2005g:93112**
Wong, H. S. *see* **Huang, De-Shuang et al., 2005i:65073**
Wu, Fen (*with* Prajna, Stephen) SOS-based solution approach to polynomial LPV system analysis and synthesis problems. (English summary) **2005m:93054**
Yoon, Myung-Gon (*with* Ugrinovskiĭ, V. A.; Petersen, Ian R.) Robust finite horizon minimax filtering for discrete-time stochastic uncertain systems. (English summary) **2005c:93101**
Young, P. C. Comments on: "Identification of non-linear parametrically varying models using separable least squares" [Internat. J. Control **77** (2004), no. 16, 1382–1392; MR2102711] by F. Previdi and M. Lovera: black-box or open box? (English summary)
Zheng, Wei Xing[1] Parameter estimation of stochastic linear systems with noisy input. (English summary) **2005c:93097**

93E25 Other computational methods

Aya, Julio C. C. *see* **Costa, Oswaldo L. V.**
Barabanov, A. E. (*with* Gel′, Yu. R.) Convergence of the least squares method with a polynomial regularizer for an infinite-dimensional autoregression equation. (Russian. Russian summary) **2005k:93248**
Costa, Oswaldo L. V. (*with* Aya, Julio C. C.) Monte Carlo $TD(\lambda)$-methods for the optimal control of discrete-time Markovian jump linear systems. (English summary)
Gel′, Yu. R. *see* **Barabanov, A. E., 2005k:93248**
Hwang, Shyh-Hong (*with* Lai, Shih-Tsung) Use of two-stage least-squares algorithms for identification of continuous systems with time delay based on pulse responses. (English summary)
Kieffer, Michel (*with* Walter, Eric) Guaranteed nonlinear state estimator for cooperative systems. (English summary)
Lai, Shih-Tsung *see* **Hwang, Shyh-Hong**
Walter, Eric *see* **Kieffer, Michel**

Items with secondary classifications in 93E25

De Iorio, Maria (*with* Griffiths, Robert C.) Importance sampling on coalescent histories. I. (English summary) **2005b:60106**
— (*with* Griffiths, Robert C.) Importance sampling on coalescent histories. II. Subdivided population models. (English summary) **2005b:60107**
Griffiths, Robert C. *see* **De Iorio, Maria, 2005b:60106** *and* **2005b:60107**
Gustafsson, Tony Subspace-based system identification: weighting and pre-filtering of instruments. (English summary)
Ikramov, Kh. D. (*with* Matin far, M.) Computer-algebra procedures for the least squares problem with linear inequality constraints. (Russian. Russian summary) **2005m:90077**
Kushner, Harold J. Numerical approximations for stochastic differential games: the ergodic case. (English summary) **2005d:91014**
Liu, Yuan-jin *see* **Yin, Gang George et al., 2005e:93158**
Matin far, M. *see* **Ikramov, Kh. D., 2005m:90077**
Wang, J. W. (*with* Zhang, Qing[1]) Pricing defaultable bond with regime switching. (English summary) (*see* **2005b:91010**)
Yin, Gang George (*with* Zhang, Qing[1]; Liu, Yuan-jin) Discrete-time approximation of Wonham filters. (English summary) **2005e:93158**
Zhang, Qing[1] *see* **Yin, Gang George et al., 2005e:93158** *and* **Wang, J. W., (2005b:91010)**

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Albu, Felix *see* **Bouchard, Martin**
Bermudez, José Carlos M. *see* **Costa, Márcio H.**
Bien, Zeungnam *see* **Ruan, Xiaoe et al.**
Bodson, Marc Rejection of periodic disturbances of unknown and time-varying frequency. (English summary)
Bouchard, Martin (*with* Albu, Felix) The Gauss-Seidel fast affine projection algorithm for multichannel active noise control and sound reproduction systems. (English summary)
Cao, Wen-Jun *see* **Xu, Jian-Xin**
Chen, Peng Nian *see* **Fang, Zhong et al.**
Chen, Shuhao *see* **Tao, Gang et al.**
Chien, Chiang-Ju (*with* Yao, Chia-Yu) An output-based adaptive iterative learning controller for high relative degree uncertain linear systems. (English summary)
Costa, Márcio H. (*with* Bermudez, José Carlos M.) A new adaptive algorithm for reducing non-linear effects from saturation in active noise control systems. (English summary)
Fang, Xue Yi Optimal higher-order algorithm for iterative learning control. (Chinese. English and Chinese summaries)
Fang, Zhong (*with* Han, Zheng Zhi; Chen, Peng Nian) A sampled-data iterative learning control algorithm for a class of delayed nonlinear systems. (Chinese. English and Chinese summaries)
Goldsmith, Peter B. On the equivalence of causal LTI iterative learning control and feedback control. (English summary)
— Author's reply to: "Comments on: 'On the equivalence of causal LTI iterative learning control and feedback control'" [Automatica J. IFAC **40** (2004), no. 5, 895–898 (2005); MR2152197] by D. H. Owens and E. Rogers.
— *see also* **Owens, D. H.**
Han, Zheng Zhi *see* **Fang, Zhong et al.**

Hätönen, J. (*with* Owens, D. H.) Convex modifications to an iterative learning control law. (English summary)
Huang, S. N. (*with* Tan, Kok Kiong; Lee, Tong Heng) Necessary and sufficient condition for convergence of iterative learning algorithm. (English summary)
Ikuta, Akira *see* **Xiao, Yegui et al.**
Joshi, Suresh Meghashyam *see* **Tao, Gang et al.**
Kohno, Toshikazu (*with* Sano, Akira) Direct adaptive active noise control algorithms in case of uncertain secondary path dynamics. (English summary)
Lee, Tong Heng *see* **Huang, S. N. et al.** *and* **Xu, Jian-Xin et al.**
Loría, Antonio Explicit convergence rates for MRAC-type systems. (English summary)
Ma, Liying *see* **Xiao, Yegui et al.**
Nepevný, Petr *see* **Vychodil, Hynek et al.**
Owens, D. H. (*with* Rogers, Eric) Comments on: "On the equivalence of causal LTI iterative learning control and feedback control" [Automatica J. IFAC **38** (2002), no. 4, 703–708; MR2131476] by P. B. Goldsmith.
— *see also* **Hätönen, J.** *and* **Goldsmith, Peter B.**
Park, Kwang-Hyun An average operator-based PD-type iterative learning control for variable initial state error. (English summary) **2005m:93167**
— *see also* **Ruan, Xiaoe et al.**
Pivoňka, Petr *see* **Vychodil, Hynek et al.**
Rogers, Eric *see* **Owens, D. H.** *and* **Goldsmith, Peter B.**
Ruan, Xiaoe (*with* Bien, Zeungnam; Park, Kwang-Hyun) Iterative learning controllers for discrete-time large-scale systems to track trajectories with distinct magnitudes. (English summary)
Sano, Akira *see* **Kohno, Toshikazu**
Schmidt, Michal *see* **Vychodil, Hynek et al.**
Sun, Mingxuan (*with* Wang, Danwei) Iterative learning control with initial rectifying action. (English summary)
Tan, Kok Kiong *see* **Huang, S. N. et al.**
Tan, Ying[1] *see* **Xu, Jian-Xin et al.**
Tao, Gang (*with* Chen, Shuhao; Joshi, Suresh Meghashyam) An adaptive control scheme for systems with unknown actuator failures. (English summary)
Tayebi, Abdelhamid Adaptive iterative learning control for robot manipulators. (English summary)
Tian, Yu Ping[1] (*with* Yu, Xinghuo) Robust learning control for a class of nonlinear systems with periodic and aperiodic uncertainties. (English summary)
Vychodil, Hynek (*with* Schmidt, Michal; Nepevný, Petr; Pivoňka, Petr) Non-linear predictive control with a neural autoregressive model. (English summary)
Wang, Danwei *see* **Sun, Mingxuan**
Ward, Rabab Kreidieh *see* **Xiao, Yegui et al.**
Xiao, Yegui (*with* Ikuta, Akira; Ma, Liying; Xu, Li[1]; Ward, Rabab Kreidieh) Statistical properties of the LMS Fourier analyzer in the presence of frequency mismatch. (English summary)
Xu, Jian-Xin (*with* Cao, Wen-Jun) Learning variable structure control approaches for repeatable tracking control tasks. (English summary)
— (*with* Tan, Ying[1]) On the P-type and Newton-type ILC schemes for dynamic systems with non-affine-in-input factors. (English summary)
— (*with* Tan, Ying[1]) Robust optimal design and convergence properties analysis of iterative learning control approaches. (English summary)
— (*with* Tan, Ying[1]; Lee, Tong Heng) Iterative learning control design based on composite energy function with input saturation. (English summary)
Xu, Li[1] *see* **Xiao, Yegui et al.**
Yao, Chia-Yu *see* **Chien, Chiang-Ju**
Yu, Xinghuo *see* **Tian, Yu Ping[1]**

Items with secondary classifications in 93E35

Barabanov, A. E. (*with* Gel′, Yu. R.) Convergence of the least squares method with a polynomial regularizer for an infinite-dimensional autoregression equation. (Russian. Russian summary) **2005k:93248**
Beigy, Hamid (*with* Meybodi, M. R.) Stochastic optimization using continuous action-set learning automata. (English summary) **2005m:90070**
Bershad, Neil J. (*with* Bist, Anurag) Fast coupled adaptation for sparse impulse responses using a partial Haar transform. (English summary)
Bhatnagar, Shalabh (*with* Kumar, Shishir) A simultaneous perturbation stochastic approximation-based actor-critic algorithm for Markov decision processes. (English summary) **2005e:90149**
Bist, Anurag *see* **Bershad, Neil J.**
Bodson, Marc *see* **Wu, Biqing, 2005m:93166**
de Diego, María *see* **González, Alberto et al.**
Ferrer, Miguel *see* **González, Alberto et al.**
Gel′, Yu. R. *see* **Barabanov, A. E., 2005k:93248**
Gómez-Ramírez, E. *see* **Najim, K. et al.**
González, Alberto (*with* Ferrer, Miguel; de Diego, María; Piñero, Gema; López, José J.) Practical implementation of multichannel adaptive filters based on FTF and AP algorithms for active control. (English summary)
He, Jiping *see* **Zhu, Liqiang et al., 2005k:92019**
Hoppensteadt, Frank C. *see* **Zhu, Liqiang et al., 2005k:92019**
Kumar, Shishir *see* **Bhatnagar, Shalabh, 2005e:90149**
Lai, Ying-Cheng *see* **Zhu, Liqiang et al., 2005k:92019**
López, José J. *see* **González, Alberto et al.**
Meybodi, M. R. *see* **Beigy, Hamid, 2005m:90070**
Najim, K. (*with* Poznyak, Alexander S.; Gómez-Ramírez, E.) Adaptive policy for two finite Markov chains zero-sum stochastic game with unknown transition matrices and average payoffs. (English summary)
Pagès, Gilles (*with* Pham, Huyên; Printems, Jacques) An optimal Markovian quantization algorithm for multi-dimensional stochastic control problems. (English summary) **2005i:65014**
Pasik-Duncan, Bozenna Random walk around some problems in identification and stochastic adaptive control with applications to finance. (English summary) **2005b:93156**
Pham, Huyên *see* **Pagès, Gilles et al., 2005i:65014**
Piñero, Gema *see* **González, Alberto et al.**
Poznyak, Alexander S. *see* **Najim, K. et al.**
Printems, Jacques *see* **Pagès, Gilles et al., 2005i:65014**
de la Sen, Manuel Adaptive stabilization of continuous-time systems through a controllable modified estimation model. (English summary) **2005d:93129**
Sun, Shu Li[1] Multi-sensor information fusion white noise filter weighted by scalars based on Kalman predictor. (English summary)
Wang, Fu Li *see* **Zhang, Ying Wei et al.**
Wang, Yao Nan *see* **Yuan, Xiao Fang**
Wu, Biqing (*with* Bodson, Marc) Multi-channel active noise control for periodic sources—indirect approach. (English summary) **2005m:93166**
Yu, Ge *see* **Zhang, Ying Wei et al.**
Yuan, Xiao Fang (*with* Wang, Yao Nan) On fuzzy support vector machine controller. (Chinese. English and Chinese summaries)
Zhang, Ying Wei (*with* Wang, Fu Li; Yu, Ge) Fault accommodation of a class of nonlinear systems using a learning approach. (Chinese. English and Chinese summaries)
Zhu, Liqiang (*with* Lai, Ying-Cheng; Hoppensteadt, Frank C.; He, Jiping) Characterization of neural interaction during learning and adaptation from spike-train data. (English summary) **2005k:92019**

93E99 None of the above, but in this section

Items with secondary classifications in 93E99

Auzerais, François *see* **Burridge, Robert et al., 2005a:91101**
Burridge, Robert (*with* Couët, Benoît; Auzerais, François; Vassiliadis, Vassilios) Optimal stimulation of oil production. (English summary) **2005a:91101**
Chen, Wen Cai (*with* Ye, Zhong Xing) Stock market models and invariant price manifolds. (Chinese. English and Chinese summaries) **2005c:91053**
Couët, Benoît *see* **Burridge, Robert et al., 2005a:91101**
Vassiliadis, Vassilios *see* **Burridge, Robert et al., 2005a:91101**
Ye, Zhong Xing *see* **Chen, Wen Cai, 2005c:91053**

94–XX Information and communication, circuits

94–01 Instructional exposition (textbooks, tutorial papers, etc.)

Bierbrauer, Jürgen ★ Introduction to coding theory. **2005f:94001**
Høholdt, Tom *see* **Justesen, Jørn**, **2005e:94001**
Jain, Surender Kumar *see* **Nagpaul, S. R.**, **2005m:94002**
Justesen, Jørn (*with* Høholdt, Tom) ★ A course in error-correcting codes. **2005e:94001**
(Kac, Mark) *see* **McEliece, Robert J.**, **2005m:94001**
Ling, San (*with* Xing, Chaoping) ★ Coding theory. **2005c:94001**
Martin, Bruno ★ Codage, cryptologie et applications. (French) [Coding, cryptology and applications] **2005j:94001**
McEliece, Robert J. ★ The theory of information and coding. **2005m:94001**
Nagpaul, S. R. (*with* Jain, Surender Kumar) ★ Topics in applied abstract algebra. **2005m:94002**
(Vaudenay, Serge) *see* **Martin, Bruno**, **2005j:94001**
Xing, Chaoping *see* **Ling, San**, **2005c:94001**

Items with secondary classifications in 94–01

(Berger, Toby) *see* **Yeung, Raymond W.**, **2005a:94028**
Blackledge, Jonathan M. ★ Digital signal processing. (English summary) **2005a:94009**
Bracewell, Ronald ★ Fourier analysis and imaging. **2005g:94006**
Buchmann, Johannes ★ Introduction to cryptography. **2005f:94084**
(Contucci, Pierluigi) *see* **Crato, Nuno**
Crato, Nuno Undecipherable codes, secure messages. Alice, Bob and the meddler. Quantum cryptography. (Italian)
ElAli, Taan S. ★ Discrete systems and digital signal processing with MATLAB®. **2005d:93001**
Goldreich, Oded ★ Foundations of cryptography. II. **2005i:94008**
Humphreys, J. F. (*with* Prest, M. Y.) ★ Numbers, groups and codes. **2005d:00002**
Landau, Susan Polynomials in the nation's service: using algebra to design the advanced encryption standard. **2005d:94124**
Prest, M. Y. *see* **Humphreys, J. F.**, **2005d:00002**
Shokrollahi, Mohammad Amin LDPC codes: an introduction. (English summary) **2005d:94210**
van Tilborg, Henk C. A. ★ Fundamentals of cryptology. **2005e:94209**
Yeung, Raymond W. ★ A first course in information theory. **2005a:94028**

94–02 Research exposition (monographs, survey articles)

Logachëv, O. A. (*with* Sal′nikov, A. A.; Yashchenko, V. V.) ★ Булевы функции в теории кодирования и криптологии. (Russian) [Boolean functions in coding theory and cryptology] **2005g:94001**
(Sadovnichiĭ, Viktor Antonovich) *see* **Logachëv, O. A. et al.**, **2005g:94001**
Sal′nikov, A. A. *see* **Logachëv, O. A. et al.**, **2005g:94001**
Yashchenko, V. V. *see* **Logachëv, O. A. et al.**, **2005g:94001**
Zayed, Ahmed I. A prelude to sampling, wavelets, and tomography. (English summary) (*see* **2005h:94001**)

Items with secondary classifications in 94–02

Ahrens, Andreas *see* **Lange, Christoph²**, (**2005b:94001**)
Al Jabri, A. A statistical decoding algorithm for general linear block codes. (English summary) (*see* **2005b:94001**)
Astola, Jaakko T. *see* **Stanković, Radomir S. et al.**, **2005f:94177**
Bellare, Mihir (*with* Yee, Bennet) Forward-security in private-key cryptography. (English summary) (*see* **2005b:94045**)
Canteaut, Anne (*with* Charpin, Pascale; Videau, Marion) Cryptanalysis of block ciphers and weight divisibility of some binary codes. (English summary) (*see* **2005a:94003**)
Charpin, Pascale *see* **Canteaut, Anne et al.**, (**2005a:94003**)
Cohn, P. M. On the factorization of codes. (English summary) **2005c:94035**
Cusick, Thomas W. (*with* Ding, Cunsheng; Renvall, Ari) ★ Stream ciphers and number theory. **2005f:11288**
Daemen, Joan (*with* Rijmen, Vincent) The wide trail design strategy. (English summary) (*see* **2005b:94001**)
Ding, Cunsheng *see* **Cusick, Thomas W. et al.**, **2005f:11288**
(Drechsler, Rolf) *see* **Advanced formal verification**, **2005i:94027**
Eldar, Yonina C. Sampling without input constraints: consistent reconstruction in arbitrary spaces. (English summary) (*see* **2005h:94001**)
Fujiwara, Toru *see* **Yoshida, Maki**, (**2005b:94001**)
Garello, Rene *see* **Le Caillec, Jean-Marc**, **2005m:94008**
Hankerson, Darrel (*with* Menezes, Alfred; Vanstone, Scott A.) ★ Guide to elliptic curve cryptography. **2005c:94049**
He, Zhao-Shui *see* **Zhang, Jin-Long et al.**
Hiramatsu, Toyokazu (*with* Köhler, Günter[1]) ★ Coding theory and number theory. **2005f:94152**
Hwang, Frank K. ★ The mathematical theory of nonblocking switching networks. **2005h:94091**
Joux, Antoine The Weil and Tate pairings as building blocks for public key cryptosystems. **2005a:14030**
Kabashima, Yoshiyuki (*with* Saad, David) Statistical mechanics of low-density parity-check codes. (English summary) **2005m:94052**
Katz, Jonathan² Binary tree encryption: constructions and applications. (English summary) **2005f:94108**
Köhler, Günter[1] *see* **Hiramatsu, Toyokazu**, **2005f:94152**
Kontorovich, V. Ya. *see* **Primak, Serguei et al.**, **2005i:60132**
Kötter, Ralf (*with* Vardy, Alexander) On the theory of linear trellises. (English summary) **2005c:94076**
Kurakin, V. L. *see* **Kuz′min, A. S. et al.**, **2005j:11010**
Kuz′min, A. S. (*with* Kurakin, V. L.; Markov, Viktor T.; Mikhalëv, A. V.; Nechaev, Aleksandr A.) Linear recurrent sequences and their applications. (Russian) **2005j:11010**
Lange, Christoph² (*with* Ahrens, Andreas) On the undetected error probability for shortened Hamming codes on channels with memory. (English summary) (*see* **2005b:94001**)
Le Caillec, Jean-Marc (*with* Garello, Rene) Asymptotic bias and variance of conventional bispectrum estimates for 2-D signals. (English summary) **2005m:94008**
Li, Jin[1] Image compression: the mathematics of JPEG 2000. (English summary) **2005c:94010**
Lyandres, Vladimir *see* **Primak, Serguei et al.**, **2005i:60132**
Markov, Viktor T. *see* **Kuz′min, A. S. et al.**, **2005j:11010**
Menezes, Alfred *see* **Hankerson, Darrel et al.**, **2005c:94049**
Mikhalëv, A. V. *see* **Kuz′min, A. S. et al.**, **2005j:11010**
Moraga, Claudio *see* **Stanković, Radomir S. et al.**, **2005f:94177**
Nechaev, Aleksandr A. *see* **Kuz′min, A. S. et al.**, **2005j:11010**
Neuenschwander, Daniel ★ Probabilistic and statistical methods in cryptology. **2005j:94028**
Niederreiter, Harald (*with* Shparlinski, Igor E.) Dynamical systems generated by rational functions. (English summary) **2005a:94047**
— Linear complexity and related complexity measures for sequences. (English summary) (*see* **2005d:94154**)
Primak, Serguei (*with* Kontorovich, V. Ya.; Lyandres, Vladimir) ★ Stochastic methods and their applications to communications. **2005i:60132**
Rabenstein, Rudolf *see* **Trautmann, Lutz**, **2005b:94010**
Renvall, Ari *see* **Cusick, Thomas W. et al.**, **2005f:11288**
Rijmen, Vincent *see* **Daemen, Joan**, (**2005b:94001**)
Saad, David *see* **Kabashima, Yoshiyuki**, **2005m:94052**
Shparlinski, Igor E. *see* **Niederreiter, Harald**, **2005a:94047**
Smart, Nigel P. The exact security of ECIES in the generic group model. (English summary) (*see* **2005b:94001**)
Stanković, Radomir S. (*with* Moraga, Claudio; Astola, Jaakko T.) Reed-Muller expressions in the previous decade. (English summary) **2005f:94177**
Stern, Jacques Why provable security matters? (English summary) **2005e:94208**
Trautmann, Lutz (*with* Rabenstein, Rudolf) ★ Digital sound synthesis by physical modeling using the functional transformation method. **2005b:94010**
(Välimäki, Vesa) *see* **Trautmann, Lutz**, **2005b:94010**
Vanstone, Scott A. *see* **Hankerson, Darrel et al.**, **2005c:94049**
Vardy, Alexander *see* **Kötter, Ralf**, **2005c:94076**
Varnovskiĭ, N. P. Mathematical cryptography. Some studies. (Russian) **2005h:94057**
Videau, Marion *see* **Canteaut, Anne et al.**, (**2005a:94003**)
Walton, Richard Uses and abuses of cryptography. (*see* **2005d:94152**)
Xie, Sheng Li *see* **Zhang, Jin-Long et al.**
Yee, Bennet *see* **Bellare, Mihir**, (**2005b:94045**)
Yoshida, Maki (*with* Fujiwara, Toru) Further improvement of Kumar-Rajagopalan-Sahai coding constructions for blacklisting problem. (English summary) (*see* **2005b:94001**)
Zemanian, Armen H. ★ Graphs and networks. **2005d:94235**
Zhang, Jin-Long (*with* Xie, Sheng Li; He, Zhao-Shui) Separability theory for blind signal separation. (English and Chinese summaries)

Items listed otherwise than by author

Advanced formal verification ★ Advanced formal verification. **2005i:94027**
Lecture Notes in Computer Science *see* **Neuenschwander, Daniel**, **2005j:94028**

94–03 Historical (must also be assigned at least one classification number from Section 01)

(Fet, Ya. I.) *see* **Kolmogorov and cybernetics**, **2005a:94001**
Huang, Hsing-Hui *see* **Yan, Hong Sen[1]**, (**2005d:94150**)
(Kolmogorov, Andreĭ Nikolaevich) *see* **Kolmogorov and cybernetics**, **2005a:94001**
Nosov, V. A. A brief historical sketch of the development of cryptography. (Russian) (*see* **2005g:94088**)
— *see also* **Sadovnichiĭ, Viktor Antonovich et al.**, (**2005g:94088**)
(Pospelov, D. A.) *see* **Kolmogorov and cybernetics**, **2005a:94001**
Sachkov, V. N. The contribution of the graduates of Moscow State University to the development of theoretical cryptography in Russia in the second half of the 20th century. (Russian) (*see* **2005g:94088**)
Sadovnichiĭ, Viktor Antonovich (*with* Nosov, V. A.; Yashchenko, V. V.) Cryptography as one of the sources in the development of mathematics. (Russian) (*see* **2005g:94088**)
Sidel′nikov, V. M. Cryptography and coding theory. (Russian) (*see* **2005g:94088**)
Yan, Hong Sen[1] (*with* Huang, Hsing-Hui) The secret and beauty of ancient Chinese padlocks. (English summary) (*see* **2005d:94150**)
Yashchenko, V. V. *see* **Sadovnichiĭ, Viktor Antonovich et al.**, (**2005g:94088**)

Items listed otherwise than by author

Kolmogorov and cybernetics ★ Колмогоров и кибернетика. (Russian) [Kolmogorov and cybernetics] **2005a:94001**

Items with secondary classifications in 94–03

Astola, Jaakko T. *see* **Stanković, Radomir S. et al.**, **2005f:94177**
Bissell, Chris Models and "black boxes": mathematics as an enabling technology in the history of communications and control engineering. (English and French summaries)
Conway, Flo (*with* Siegelman, Jim) ★ Dark hero of the information age. **2005i:01008**
Darrigol, Olivier The origins of the entropy concept. (*see* **2005c:82002**)
Gaj, Kris (*with* Orłowski, Arkadiusz) Facts and myths of Enigma: breaking stereotypes. (English summary) **2005e:94143**
Mollin, Richard A. Cryptography—a brief history. (English summary) **2005d:94133**
Moraga, Claudio *see* **Stanković, Radomir S. et al.**, **2005f:94177**
Orłowski, Arkadiusz *see* **Gaj, Kris**, **2005e:94143**
Sachkov, V. N. Development of combinatorial-probability directions in mathematics and cryptography. (Russian) (*see* **2005g:94088**)
Siegelman, Jim *see* **Conway, Flo**, **2005i:01008**
Stanković, Radomir S. (*with* Moraga, Claudio; Astola, Jaakko T.) Reed-Muller expressions in the previous decade. (English summary) **2005f:94177**

(Wiener, Norbert) *see* **Conway, Flo, 2005i:01008**

Items listed otherwise than by author

Biography:
Wiener, Norbert G. *see* **Conway, Flo, 2005i:01008**

94–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 94–04

Gashkov, I. B. Error correcting codes with Mathematica. (English summary) (*see* **2005c:00014**)

94–06 Proceedings, conferences, collections, etc.

(Benedetto, John J.) *see* **Sampling, wavelets, and tomography, 2005h:94001**
(Biham, Eli) *see* **Advances in cryptology—EUROCRYPT 2003, 2005c:94003**
(Feng, Ke Qin) *see* **Coding, cryptography and combinatorics, 2005c:94005**
Golovanov, P. N. The influence of the graduates of Moscow University on the establishment of cryptographic education in Russia. (Russian) (*see* **2005g:94088**)
(Gupta, Piyush) *see* **Advances in network information theory, 2005c:94004**
(Heys, Howard M.) *see* **Selected areas in cryptography, 2005c:94006**
(Honary, Bahram) *see* **Cryptography and coding, 2005b:94001**
(Kramer, Gerhard) *see* **Advances in network information theory, 2005c:94004**
(Niederreiter, Harald) *see* **Coding, cryptography and combinatorics, 2005c:94005**
(Nyberg, Kaisa) *see* **Selected areas in cryptography, 2005c:94006**
(Osher, Stanley) *see* **Geometric level set methods in imaging, vision, and graphics, 2005a:94002**
(Paragios, Nikos) *see* **Geometric level set methods in imaging, vision, and graphics, 2005a:94002**
(van Wijngaarden, Adriaan J.) *see* **Advances in network information theory, 2005c:94004**
(Xing, Chaoping) *see* **Coding, cryptography and combinatorics, 2005c:94005**
(Zayed, Ahmed I.) *see* **Sampling, wavelets, and tomography, 2005h:94001**
(Zheng, Yuliang) *see* **Advances in cryptology—ASIACRYPT 2002, 2005c:94002**

Items listed otherwise than by author

Advances in cryptology—ASIACRYPT 2002 ★ Advances in cryptology—ASIACRYPT 2002. **2005c:94002**
Advances in cryptology—EUROCRYPT 2003 ★ Advances in cryptology—EUROCRYPT 2003. **2005c:94003**
Advances in network information theory ★ Advances in network information theory. **2005c:94004**
Cirencester ★ Cryptography and coding. **2005b:94001**
Coding, cryptography and combinatorics ★ Coding, cryptography and combinatorics. **2005c:94005**
Cryptography and coding ★ Cryptography and coding. **2005b:94001**
Geometric level set methods in imaging, vision, and graphics ★ Geometric level set methods in imaging, vision, and graphics. **2005a:94002**
Lecture Notes in Computer Science ★ Cryptography and coding. **2005b:94001**
—★ Advances in cryptology—ASIACRYPT 2002. **2005c:94002**
—★ Advances in cryptology—EUROCRYPT 2003. **2005c:94003**
—★ Selected areas in cryptography. **2005c:94006**
Piscataway, NJ ★ Advances in network information theory. **2005c:94004**
Queenstown ★ Advances in cryptology –ASIACRYPT 2002. **2005c:94002**
Sampling, wavelets, and tomography ★ Sampling, wavelets, and tomography. **2005h:94001**
Selected areas in cryptography ★ Selected areas in cryptography. **2005c:94006**
St. John's, NL ★ Selected areas in cryptography. **2005c:94006**
Warsaw ★ Advances in cryptology—EUROCRYPT 2003. **2005c:94003**

Items with secondary classifications in 94–06

Antsaklis, Panos J. (*with* Baillieul, John) Guest editorial. Special issue on networked control systems.
Baillieul, John *see* **Antsaklis, Panos J.**
(Bao, Feng) *see* **Public key cryptography—PKC 2004, 2005d:94155**
(Blaum, Mario) *see* **Information, coding and mathematics, 2005a:94003**
(Boneh, Dan) *see* **Advances in cryptology—CRYPTO 2003, 2005d:94151**
(Deng, Robert H.) *see* **Public key cryptography—PKC 2004, 2005d:94155**
(Farrell, Patrick G.) *see* **Information, coding and mathematics, 2005a:94003**
(Fet, Ya. I.) *see* **Kolmogorov and cybernetics, 2005a:94001**
Gorrieri, Roberto (*with* Martinelli, Fabio) Preface [Theoretical foundations of security analysis and design. II].
(Healy, Dennis M., Jr.) *see* **Modern signal processing, 2005b:94011**
(Hurley, Stephen) *see* **Methods and algorithms for radio channel assignment, 2005f:94006**
(Johansson, Thomas) *see* **Progress in cryptology—INDOCRYPT 2003, 2005d:94154**
(Joye, Marc) *see* **Topics in cryptology—CT-RSA 2003, 2005b:94045**
(Kolmogorov, Andreĭ Nikolaevich) *see* **Kolmogorov and cybernetics, 2005a:94001**
(Laih, Chi Sung) *see* **Advances in cryptology—ASIACRYPT 2003, 2005d:94150**
(Lee, Dong Hoon²) *see* **Information security and cryptology—ICISC 2003, 2005d:94153**
(Lee, Pil Joong) *see* **Information security and cryptology—ICISC 2002, 2005b:94052**
(Leese, Robert) *see* **Methods and algorithms for radio channel assignment, 2005f:94006**
(Lim, Chae Hoon) *see* **Information security and cryptology—ICISC 2002, 2005b:94052**
(Lim, Jong In) *see* **Information security and cryptology—ICISC 2003, 2005d:94153**
(Maitra, Subhamoy) *see* **Progress in cryptology—INDOCRYPT 2003, 2005d:94154**
Martinelli, Fabio *see* **Gorrieri, Roberto**
(Matsui, Mitsuru) *see* **Selected areas in cryptography, 2005d:94156**
(McEliece, Robert J.) *see* **Information, coding and mathematics, 2005a:94003**
(Menezes, Alfred) *see* **Progress in cryptology—INDOCRYPT 2002, 2005b:94043**
(Myasnikov, Aleksei G.) *see* **Group theory, statistics, and cryptography, 2005f:20001**
(Naccache, David) *see* **Public key cryptography, 2005b:94044**
(Okamoto, Tatsuaki) *see* **Topics in cryptology—CT-RSA 2004, 2005d:94157**
(Paillier, Pascal) *see* **Public key cryptography, 2005b:94044**
(Paterson, Kenneth G.) *see* **Cryptography and coding, 2005d:94152**
(Pospelov, D. A.) *see* **Kolmogorov and cybernetics, 2005a:94001**
(Rockmore, Daniel N.) *see* **Modern signal processing, 2005b:94011**
(Sarkar, Palash) *see* **Progress in cryptology—INDOCRYPT 2002, 2005b:94043**
(Shpilrain, Vladimir) *see* **Group theory, statistics, and cryptography, 2005f:20001**
(van Tilborg, Henk C. A.) *see* **Information, coding and mathematics, 2005a:94003**
(Yashchenko, V. V.) *see* **Moscow University and the development of cryptography in Russia, 2005g:94088**
(Zhou, Jianying) *see* **Public key cryptography—PKC 2004, 2005d:94155**
(Zuccherato, Robert) *see* **Selected areas in cryptography, 2005d:94156**

Items listed otherwise than by author

Advances in cryptology—ASIACRYPT 2003 ★ Advances in cryptology—ASIACRYPT 2003. **2005d:94150**
Advances in cryptology—CRYPTO 2003 ★ Advances in cryptology—CRYPTO 2003. **2005d:94151**
Cirencester ★ Cryptography and coding. **2005d:94152**
Contemporary Mathematics ★ Group theory, statistics, and cryptography. **2005f:20001**
Cryptography and coding ★ Cryptography and coding. **2005d:94152**
Group theory, statistics, and cryptography ★ Group theory, statistics, and cryptography. **2005f:20001**
Hyderabad ★ Progress in cryptology—INDOCRYPT 2002. **2005b:94043**
Information, coding and mathematics ★ Information, coding and mathematics. **2005a:94003**
Information security and cryptology—ICISC 2002 ★ Information security and cryptology—ICISC 2002. **2005b:94052**
Information security and cryptology—ICISC 2003 ★ Information security and cryptology—ICISC 2003. **2005d:94153**
Kolmogorov and cybernetics ★ Колмогоров и кибернетика. (Russian) [Kolmogorov and cybernetics] **2005a:94001**
Lecture Notes in Computer Science ★ Progress in cryptology—INDOCRYPT 2002. **2005b:94043**
—★ Public key cryptography. **2005b:94044**
—★ Topics in cryptology –CT-RSA 2003. **2005b:94045**
—★ Information security and cryptology—ICISC 2002. **2005b:94052**
—★ Advances in cryptology—ASIACRYPT 2003. **2005d:94150**
—★ Advances in cryptology—CRYPTO 2003. **2005d:94151**
—★ Cryptography and coding. **2005d:94152**
—★ Progress in cryptology—INDOCRYPT 2003. **2005d:94154**
—★ Information security and cryptology—ICISC 2003. **2005d:94153**
—★ Public key cryptography—PKC 2004. **2005d:94155**
—★ Selected areas in cryptography. **2005d:94156**
—★ Topics in cryptology –CT-RSA 2004. **2005d:94157**
Methods and algorithms for radio channel assignment ★ Methods and algorithms for radio channel assignment. **2005f:94006**
Modern signal processing ★ Modern signal processing. **2005b:94011**
Moscow ★ Московский Университет и развитие криптографии в России. (Russian) [Moscow University and the development of cryptography in Russia] **2005g:94088**
Moscow University and the development of cryptography in Russia ★ Московский Университет и развитие криптографии в России. (Russian) [Moscow University and the development of cryptography in Russia] **2005g:94088**
New Delhi ★ Progress in cryptology—INDOCRYPT 2003. **2005d:94154**
New York ★ Group theory, statistics, and cryptography. **2005f:20001**
Ottawa, ON ★ Selected areas in cryptography. **2005d:94156**
Paris ★ Public key cryptography. **2005b:94044**
Pasadena, CA ★ Information, coding and mathematics. **2005a:94003**
Progress in cryptology—INDOCRYPT 2002 ★ Progress in cryptology—INDOCRYPT 2002. **2005b:94043**
Progress in cryptology—INDOCRYPT 2003 ★ Progress in cryptology—INDOCRYPT 2003. **2005d:94154**
Public key cryptography ★ Public key cryptography. **2005b:94044**
Public key cryptography—PKC 2004 ★ Public key cryptography—PKC 2004. **2005d:94155**
San Francisco, CA ★ Topics in cryptology—CT-RSA 2003. **2005b:94045**
—★ Topics in cryptology—CT-RSA 2004. **2005d:94157**
Santa Barbara, CA ★ Advances in cryptology—CRYPTO 2003. **2005d:94151**
Selected areas in cryptography ★ Selected areas in cryptography. **2005d:94156**
Seoul ★ Information security and cryptology—ICISC 2002. **2005b:94052**
—★ Information security and cryptology—ICISC 2003. **2005d:94153**
Singapore ★ Public key cryptography—PKC 2004. **2005d:94155**
Taipei ★ Advances in cryptology—ASIACRYPT 2003. **2005d:94150**
Topics in cryptology—CT-RSA 2003 ★ Topics in cryptology—CT-RSA 2003. **2005b:94045**
Topics in cryptology—CT-RSA 2004 ★ Topics in cryptology—CT-RSA 2004. **2005d:94157**

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(Blaum, Mario) *see* **Information, coding and mathematics, 2005a:94003**
(Farrell, Patrick G.) *see* **Information, coding and mathematics, 2005a:94003**
(McEliece, Robert J.) *see* **Information, coding and mathematics, 2005a:94003**
(van Tilborg, Henk C. A.) *see* **Information, coding and mathematics, 2005a:94003**

Items listed otherwise than by author

Information, coding and mathematics ★ Information, coding and mathematics. **2005a:94003**
Pasadena, CA ★ Information, coding and mathematics. **2005a:94003**

Items with secondary classifications in 94Axx

Bierbrauer, Jürgen ★ Introduction to coding theory. **2005f:94001**
(Kac, Mark) *see* **McEliece, Robert J., 2005m:94001**

McEliece, Robert J. ★The theory of information and coding. **2005m:94001**

94A05 Communication theory [see also 60G35, 90B18]

Abhayapala, Thushara D. *see* **Zhang, Jian[7] et al.**
Al-Dhahir, Naofal *see* **Diggavi, Suhas N. et al., 2005e:94004**
Alexander, Paul D. *see* **Rasmussen, Lars K. et al., 2005c:94007**
Amin, Moeness G. *see* **He, Lin[2] et al.**
Arunkumar, M. *see* **Makur, Anamitra**
Asano, Tomoyuki A revocation scheme with minimal storage at receivers. (English summary) **2005e:94002**
Beheshti, Mohammadali *see* **Shahbazpanahi, Shahram et al.**
Boche, Holger (*with* Stańczak, Sławomir) On systems of linear equations with nonnegative coefficients. (English summary) **2005a:94004**
Bröcker, Jochen (*with* Parlitz, Ulrich) Analyzing communication schemes using methods from nonlinear filtering. (English summary) **2005f:94002**
Caire, Giuseppe (*with* Müller, Ralf R.; Tanaka, Toshiyuki[2]) Iterative multiuser joint decoding: optimal power allocation and low-complexity implementation. (English summary) **2005e:94003**
— *see also* **El Gamal, Hesham et al.**
Calderbank, A. R. *see* **Diggavi, Suhas N. et al., 2005e:94004**
Chaufray, Jean-Marie (*with* Hachem, Walid; Loubaton, Philippe) Asymptotic analysis of optimum and suboptimum CDMA downlink MMSE receivers. (English summary)
Choo, Hyunseung *see* **Shakhov, Vladimir V., (2005c:00014)**
Chu, Wensong (*with* Colbourn, Charles J.) Sequence designs for ultra-wideband impulse radio with optimal correlation properties. (English summary)
Colbourn, Charles J. (*with* Ling, Alan C. H.; Syrotiuk, Violet R.) Cover-free families and topology-transparent scheduling for MANETs. (English summary) **2005d:94001**
— *see also* **Chu, Wensong**
Damen, Mohamed Oussama *see* **El Gamal, Hesham et al.**
Devetak, Igor (*with* Winter, Andreas) Distilling common randomness from bipartite quantum states. (English summary)
Dhillon, Inderjit S. *see* **Tropp, Joel A. et al.**
Diggavi, Suhas N. (*with* Al-Dhahir, Naofal; Calderbank, A. R.) Diversity embedding in multiple antenna communications. (English summary) **2005e:94004**
Dougherty, Randall (*with* Freiling, Christopher; Zeger, Kenneth) Linearity and solvability in multicast networks. (English summary)
El Gamal, Abbas *see* **Uysal-Biyikoglu, Elif, 2005h:94004**
El Gamal, Hesham (*with* Caire, Giuseppe; Damen, Mohamed Oussama) Lattice coding and decoding achieve the optimal diversity-multiplexing tradeoff of MIMO channels. (English summary)
Erdogmus, Deniz (*with* Hild, Kenneth E.; Principe, Jose C.; Lázaro, Marcelino; Santamaría, Ignacio) Adaptive blind deconvolution of linear channels using Renyi's entropy with Parzen window estimation. (English summary) **2005a:94005**
Eun, Yu-Chang (*with* Jin, Seok-Yong; Hong, Yun-Pyo; Song, Hong-Yeop) Frequency hopping sequences with optimal partial autocorrelation properties. (English summary) **2005e:94005**
Farserotu, John R. *see* **Gerrits, John F. M. et al.**
Fitzpatrick, Shannon (*with* Janssen, Jeannette C. M.; Nowakowski, Richard) Distributive online channel assignment for hexagonal cellular networks with constraints. (English summary) **2005h:94002**
Freiling, Christopher *see* **Dougherty, Randall et al.**
Fuji-Hara, Ryoh (*with* Miao, Ying; Mishima, Miwako) Optimal frequency hopping sequences: a combinatorial approach. (English summary)
Gerrits, John F. M. (*with* Kouwenhoven, Michiel H. L.; van der Meer, Paul R.; Farserotu, John R.; Long, John R.) Principles and limitations of ultra-wideband FM communications systems. (English summary)
Gershman, Alex B. *see* **Shahbazpanahi, Shahram et al.**
Gharavi-Alkhansari, Mohammad *see* **Shahbazpanahi, Shahram et al.**
Glauche, Ingmar *see* **Krause, Wolfram et al., 2005d:94003**
Goldsmith, Andrea *see* **Jindal, Nihar et al., (2005a:94003)**
Gong, Chuan Xin *see* **Liu, Shu Li, 2005g:94002**
Grant, Alex J. *see* **Rasmussen, Lars K. et al., 2005c:94007**
Greiner, Martin *see* **Krause, Wolfram et al., 2005d:94003**
Guess, Tommy CDMA with power control and sequence design: the capacity region with and without multidimensional signaling. (English summary)
Gusmão Cavalcante, Rodrigo (*with* Palazzo, Reginaldo, Jr.) Performance analysis of M-PSK signal constellations in Riemannian varieties. (English summary) **2005b:94002**
Guzakov, N. N. *see* **Vishnevskiĭ, V. M. et al.**
Hachem, Walid *see* **Chaufray, Jean-Marie et al.**
Hassibi, Babak *see* **Jing, Yindi, 2005e:94006** *and* **Sharif, Masoud**
He, Lin[2] (*with* Amin, Moeness G.; Reed, Charles, Jr.; Malkemes, Robert C.) A hybrid adaptive blind equalization algorithm for QAM signals in wireless communications. (English summary)
Heath, Robert W., Jr. *see* **Tropp, Joel A. et al.**
Hild, Kenneth E. *see* **Erdogmus, Deniz et al., 2005a:94005**
Hochwald, Bertrand M. (*with* Marzetta, Thomas L.; Tarokh, Vahid) Multiple-antenna channel hardening and its implications for rate feedback and scheduling. (English summary)
Hong, Yun-Pyo *see* **Eun, Yu-Chang et al., 2005e:94005**
(Hurley, Stephen) *see* **Methods and algorithms for radio channel assignment, 2005f:94006**
Hwang, Wei-Chen *see* **Yu, Gwo-Jong**
Iversen, V. B. *see* **Stepanov, S. N., 2005e:94007**
Janssen, Jeannette C. M. *see* **Fitzpatrick, Shannon et al., 2005h:94002**
Jeske, Daniel R. (*with* Sampath, Ashwin) Signal-to-interference-plus-noise ratio estimation for wireless communication systems: methods and analysis. (English summary) **2005j:94002**
Jin, Seok-Yong *see* **Eun, Yu-Chang et al., 2005e:94005**
Jindal, Nihar (*with* Vishwanath, Sriram; Goldsmith, Andrea) Duality, dirty paper coding, and capacity for multiuser wireless channels. (English summary) (*see* **2005a:94003**)
Jing, Yindi (*with* Hassibi, Babak) Design of fully diverse multiple-antenna codes based on Sp(2). (English summary) **2005e:94006**
Jöngren, George (*with* Skoglund, Mikael) Quantized feedback information in orthogonal space-time block coding. (English summary)
Kar, Koushik (*with* Sarkar, Saswati; Tassiulas, Leandros) Achieving proportional fairness using local information in Aloha networks. (English summary) **2005d:94002**
Kennedy, Rodney A. *see* **Zhang, Jian[7] et al.**
Ki, Ju Hee (*with* Kim, Hyun Jeong; Lee, Dong Hoon[2]; Park, Chang Seop) Efficient multicast key management for stateless receivers. (English summary) (*see* **2005b:94052**)
Kim, Hyun Jeong *see* **Ki, Ju Hee et al., (2005b:94052)**
Kotsyuruba, P. I. (*with* Nazarov, A. A.) Investigation of the asymptotic average characteristics of non-Markov models of unstable random access networks. (Russian. Russian summary) **2005f:94003**
Kouwenhoven, Michiel H. L. *see* **Gerrits, John F. M. et al.**
Krause, Wolfram (*with* Glauche, Ingmar; Sollacher, Rudolf; Greiner, Martin) Impact of network structure on the capacity of wireless multihop ad hoc communication. (English summary) **2005d:94003**
Kulhan, Nilgun *see* **Siap, Irfan, 2005h:94003**
Kulkarni, Sanjeev R. (*with* Viswanath, Pramod) A deterministic approach to throughput scaling in wireless networks. (English summary)
Kumar, Panganamala Ramana *see* **Xie, Liang-Liang, 2005e:94008**
Lázaro, Marcelino *see* **Erdogmus, Deniz et al., 2005a:94005**
Lee, Dong Hoon[2] *see* **Ki, Ju Hee et al., (2005b:94052)**
(Leese, Robert) *see* **Methods and algorithms for radio channel assignment, 2005f:94006**
Ling, Alan C. H. *see* **Colbourn, Charles J. et al., 2005d:94001**
Liu, Ruoheng *see* **Soljanin, Emina et al., 2005k:94002**
Liu, Shu Li (*with* Gong, Chuan Xin) Several minimal 2-fault-tolerant broadcast networks. (Chinese. English and Chinese summaries) **2005g:94002**
Long, John R. *see* **Gerrits, John F. M. et al.**
Loubaton, Philippe *see* **Chaufray, Jean-Marie et al.**
Lyakhov, A. I. *see* **Vishnevskiĭ, V. M. et al.**
Makur, Anamitra (*with* Arunkumar, M.) Minimization of quantization noise amplification in biorthogonal subband coders. (English summary)
Malkemes, Robert C. *see* **He, Lin[2] et al.**
Marzetta, Thomas L. *see* **Hochwald, Bertrand M. et al.**
van der Meer, Paul R. *see* **Gerrits, John F. M. et al.**
Miao, Ying *see* **Fuji-Hara, Ryoh et al.**
Mishima, Miwako *see* **Fuji-Hara, Ryoh et al.**
Miyajima, Teruyuki (*with* Yamanaka, Kazuo) Phasor model with application to multiuser communication. (*see* **2005b:00018**)
Müller, Ralf R. *see* **Caire, Giuseppe et al., 2005e:94003**
Narayanan, Lata (*with* Tang, Yihui) Worst-case analysis of a dynamic channel assignment strategy. (English summary) **2005k:94001**
Nazarov, A. A. (*with* Shokhor, S. L.) Ergodicity of Markov chains with band graphs and their application to problems of the analysis of conditions for the existence of stationary regimes in dynamic random multiple access communication networks. (Russian. Russian summary) **2005g:94003**
— *see also* **Kotsyuruba, P. I., 2005f:94003**
Nolan, A. John Bisectored unit disk graphs. (English summary) **2005a:94006**
Nowakowski, Richard *see* **Fitzpatrick, Shannon et al., 2005h:94002**
Palazzo, Reginaldo, Jr. *see* **Gusmão Cavalcante, Rodrigo, 2005b:94002**
Park, Chang Seop *see* **Ki, Ju Hee et al., (2005b:94052)**
Parlitz, Ulrich *see* **Bröcker, Jochen, 2005f:94002**
Poor, H. Vincent *see* **Yao, Yingwei et al.**
Principe, Jose C. *see* **Erdogmus, Deniz et al., 2005a:94005**
Rasmussen, Lars K. (*with* Grant, Alex J.; Alexander, Paul D.) An extrinsic Kalman filter for iterative multiuser decoding. (English summary) **2005c:94007**
Reed, Charles, Jr. *see* **He, Lin[2] et al.**
Sampath, Ashwin *see* **Jeske, Daniel R., 2005j:94002**
Santamaría, Ignacio *see* **Erdogmus, Deniz et al., 2005a:94005**
Sarkar, Saswati *see* **Kar, Koushik et al., 2005d:94002**
Shahbazpanahi, Shahram (*with* Beheshti, Mohammadali; Gershman, Alex B.; Gharavi-Alkhansari, Mohammad; Wong, Kon Max) Minimum variance linear receivers for multiaccess MIMO wireless systems with space-time block coding. (English summary)
Shakhov, Vladimir V. (*with* Choo, Hyunseung) Analytical approach for channel assignments in cellular networks. (English summary) (*see* **2005c:00014**)
Shamai, Shlomo *see* **Tuninetti, Daniela, 2005f:94004**
Sharif, Masoud (*with* Hassibi, Babak) On multicarrier signals where the PMEPR of a random codeword is asymptotically $\log n$. (English summary)
Shokhor, S. L. *see* **Nazarov, A. A., 2005g:94003**
Siap, Irfan (*with* Kulhan, Nilgun) The structure of generalized quasi cyclic codes. (English summary) **2005h:94003**
Skoglund, Mikael *see* **Jöngren, George**
Soljanin, Emina (*with* Liu, Ruoheng; Spasojevic, Predrag) Hybrid ARQ with random transmission assignments. (English summary) **2005k:94002**
Sollacher, Rudolf *see* **Krause, Wolfram et al., 2005d:94003**
Song, Hong-Yeop *see* **Eun, Yu-Chang et al., 2005e:94005**
Spasojevic, Predrag *see* **Soljanin, Emina et al., 2005k:94002**
Stańczak, Sławomir *see* **Boche, Holger, 2005a:94004**
Stepanov, S. N. (*with* Iversen, V. B.) Methods for reducing the amount of computations in the modeling of a communication system with losses, based on ignoring low-probability states. (Russian. Russian summary) **2005e:94007**
Sun, Feng-Wen *see* **Yao, Yingwei et al.**
Syrotiuk, Violet R. *see* **Colbourn, Charles J. et al., 2005d:94001**
Tanaka, Toshiyuki[2] *see* **Caire, Giuseppe et al., 2005e:94003**
Tang, Yihui *see* **Narayanan, Lata, 2005k:94001**
Tarokh, Vahid *see* **Hochwald, Bertrand M. et al.**
Tassiulas, Leandros *see* **Kar, Koushik et al., 2005d:94002**
Tropp, Joel A. (*with* Dhillon, Inderjit S.; Heath, Robert W., Jr.) Finite-step algorithms for constructing optimal CDMA signature sequences. (English summary)

Tuninetti, Daniela (*with* Shamai, Shlomo) Fading Gaussian broadcast channels with state information at the receivers. (English summary) **2005f:94004**

Tyurikov, M. Yu. Multiplicativity of Markov networks with multicast routing. (Russian. Russian summary) **2005g:94004**

Uysal-Biyikoglu, Elif (*with* El Gamal, Abbas) On adaptive transmission for energy efficiency in wireless data networks. (English summary) **2005h:94004**

Vishnevskiĭ, V. M. (*with* Guzakov, N. N.; Lyakhov, A. I.) Estimation of the maximum throughput of wireless access to the internet. (Russian. Russian summary)

Vishwanath, Sriram *see* **Jindal, Nihar et al.**, (**2005a:94003**)

Viswanath, Pramod Sum rate of a class of multiterminal Gaussian source coding problems. (English summary) **2005f:94005**

— *see also* **Kulkarni, Sanjeev R.**

Wang, Genyuan (*with* Xia, Xiang-Gen) An orthogonal space-time coded CPM system with fast decoding for two transmit antennas. (English summary) **2005d:94004**

Wiener, Gábor Recognition problems and communication complexity. (English summary) **2005b:94003**

Winter, Andreas *see* **Devetak, Igor**

Wong, Kon Max *see* **Shahbazpanahi, Shahram et al.**

Xia, Xiang-Gen *see* **Wang, Genyuan**, **2005d:94004**

Xie, Liang-Liang (*with* Kumar, Panganamala Ramana) Wireless network information theory. (English summary) **2005e:94008**

Yamanaka, Kazuo *see* **Miyajima, Teruyuki**, (**2005b:00018**)

Yao, Yingwei (*with* Poor, H. Vincent; Sun, Feng-Wen) User capacity for synchronous multirate CDMA systems with linear MMSE receivers. (English summary)

Yu, Gwo-Jong (*with* Hwang, Wei-Chen) A minimum delay routing protocol for Bluetooth radio networks. (English summary)

Zeger, Kenneth *see* **Dougherty, Randall et al.**

Zhang, Jian[7] (*with* Kennedy, Rodney A.; Abhayapala, Thushara D.) Cramér-Rao lower bounds for the synchronization of UWB signals. (English summary)

Items listed otherwise than by author

Methods and algorithms for radio channel assignment ★ Methods and algorithms for radio channel assignment. **2005f:94006**

Items with secondary classifications in 94A05

Abdollahi, Abdolaziz (*with* Taghavi, Mohsen) Dyadic representation of the Rudin-Shapiro coefficients with applications. (English summary) **2005k:42025**

Ageev, A. A. (*with* Fishkin, Aleksei V.; Kononov, Aleksandr Veniaminovich; Sevast′yanov, S. V.) Open block scheduling in optical communication networks. (English summary) (*see* **2005c:68005**)

Agrawal, Rajeev (*with* Baccelli, François; Rajan, Rajendran) An algebra for queueing networks with time-varying service and its application to the analysis of integrated service networks. (English summary) **2005h:60268**

Al-Dabbagh, Ahmed (*with* Darnell, Michael) The synthesis of TD-sequences and their application to multi-functional communication systems. (English summary) (*see* **2005b:94001**)

Anand, R. Sai (*with* Erlebach, Thomas; Hall, Alexander; Stefanakos, Stamatis) Call control with k rejections. (English summary) **2005e:68084**

Azou, S. *see* **Bouder, C. et al.**, **2005h:94038**

Baccelli, François *see* **Agrawal, Rajeev et al.**, **2005h:60268**

Balakirskiĭ, V. B. (*with* Vinck, Adrianus J.) On the characteristics of permutation codes for multi-user communication systems. (Russian. Russian summary) **2005g:94057**

Barkan, Elad (*with* Biham, Eli; Keller, Nathan) Instant ciphertext-only cryptanalysis of GSM encrypted communication. (English summary) **2005e:94108**

Başar, Tamer *see* **Kashyap, Akshay et al.**

Baum, Dieter (*with* Kovalenko, Igor Nikolaevich) Graph models in the communication of mobile devices in access zones. (Russian. English and Ukrainian summaries) **2005e:94083**

Beimel, Amos (*with* Dolev, Shlomi) Buses for anonymous message delivery. (English summary) **2005a:94050**

Berdyshev, V. I. Informativity of a trajectory in the problem of navigation by the field of altitudes. (Russian)

Bertossi, Alan A. (*with* Pinotti, Cristina M.; Rizzi, Romeo; Shende, Anil M.) Channel assignment in honeycomb networks. (English summary) (*see* **2005b:68027**)

Biedl, Therese (*with* Demaine, Erik D.; Golynski, Alexander; Horton, Joseph D.; López-Ortiz, Alejandro; Poirier, Guillaume; Quimper, Claude-Guy) Optimal dynamic video-on-demand using adaptive broadcasting. (English summary) (*see* **2005c:68003**)

Biham, Eli *see* **Barkan, Elad et al.**, **2005e:94108**

Billionnet, Alain (*with* Elloumi, Sourour; Grouz Djerbi, Leila) Designing radio-mobile access networks based on synchronous digital hierarchy rings. (English summary) **2005d:90065**

Boche, Holger (*with* Jorswieck, Eduard A.) On Schur-convexity of expectation of weighted sum of random variables with applications. (English summary) **2005j:60093**

Bolić, Miodrag (*with* Djurić, Petar M.; Hong, Sangjin) Resampling algorithms for particle filters: a computational complexity perspective. (English summary) **2005h:93162**

Bouder, C. (*with* Azou, S.; Burel, Gilles) Performance analysis of a spreading sequence estimator for spread spectrum transmissions. (English summary) **2005h:94038**

Bowong, Samuel (*with* Moukam Kakmeni, F. M.; Koina, Rodoumta) A new synchronization principle for a class of Lur′e systems with applications in secure communication. (English summary) **2005c:93078**

Brehler, Matthias *see* **Dayal, Pranav et al.**

Brito, Carlos (*with* Gafni, Eli; Vaya, Shailesh) An information theoretic lower bound for broadcasting in radio networks. (English summary) **2005e:68005**

Burel, Gilles *see* **Bouder, C. et al.**, **2005h:94038**

Cai, Ning *see* **Song, Lihua et al.**, **2005a:94115**

Canelon, Jose I. *see* **Tsai, Jason Sheng Hong et al.**, **2005i:94010**

Caragiannis, Ioannis (*with* Kaklamanis, Christos; Kanellopoulos, Panagiotis) Energy-efficient wireless network design. (English summary) (*see* **2005c:68004**)

— (*with* Kaklamanis, Christos; Papaioannou, Evi) Simple on-line algorithms for call control in cellular networks. (English summary) (*see* **2005c:68005**)

Carlet, Claude *see* **Klapper, Andrew**, **2005a:94048**

Carmi, Paz (*with* Dolev, Shlomi; Har-Peled, Sariel; Katz, Matthew J.; Segal, Michael) Geographic quorum system approximations. (English summary) **2005k:68203**

Chartrand, Gary (*with* Erwin, David J.; Zhang, Ping[5]) A graph labeling problem suggested by FM channel restrictions. (English summary) **2005h:05175**

Choi, Bong Dae *see* **Hwang, Gang Uk**, **2005b:68030**

Chu, Wensong (*with* Colbourn, Charles J.; Dukes, Peter) Constructions for permutation codes in powerline communications. (English summary) **2005c:94030**

Colbourn, Charles J. (*with* Kløve, Torleiv; Ling, Alan C. H.) Permutation arrays for powerline communication and mutually orthogonal Latin squares. (English summary) **2005e:94316**

— *see also* **Chu, Wensong et al.**, **2005c:94030**

Concha, Julio I. (*with* Poor, H. Vincent) Multiaccess quantum channels. (English summary) **2005e:94086**

Cordier, Marie-Odile *see* **Pencolé, Yannick**, **2005m:68207**

Cormode, Graham (*with* Muthukrishnan, S. Muthu) An improved data stream summary: the Count-Min Sketch and its applications. (English summary) (*see* **2005d:68010**)

Darnell, Michael *see* **Al-Dabbagh, Ahmed**, (**2005b:94001**) *and* **Komninos, N. et al.**, (**2005b:94001**)

Dayal, Pranav (*with* Brehler, Matthias; Varanasi, Mahesh K.) Leveraging coherent space-time codes for noncoherent communication via training. (English summary)

Demaine, Erik D. *see* **Biedl, Therese et al.**, (**2005c:68003**)

Djurić, Petar M. *see* **Bolić, Miodrag et al.**, **2005h:93162**

Dodson, Maurice M. Shannon's sampling theorem, incongruent residue classes and Plancherel's theorem. (English and French summaries) **2005a:94036**

Dolev, Shlomi *see* **Beimel, Amos**, **2005a:94050** *and* **Carmi, Paz et al.**, **2005k:68203**

Dukes, Peter *see* **Chu, Wensong et al.**, **2005c:94030**

Ďuriš, Pavol Multiparty communication complexity and very hard functions. (English summary) **2005b:68101**

— (*with* Hromkovič, Juraj; Jukna, Stasys; Sauerhoff, Martin; Schnitger, Georg) On multi-partition communication complexity. (English summary) **2005e:68062**

Elia, Michele *see* **Interlando, J. Carmelo**, **2005h:11257**

Elloumi, Sourour *see* **Billionnet, Alain et al.**, **2005d:90065**

Engelberg, Shlomo Spread spectrum from two perspectives. (English summary) **2005c:94023**

Erez, Elona (*with* Feder, Meir) The capacity region of broadcast networks with two receivers. (English summary) **2005d:94064**

Ergün, Funda (*with* Muthukrishnan, S. Muthu; Şahinalp, Süleyman Cenk) Sublinear methods for detecting periodic trends in data streams. (English summary) (*see* **2005d:68010**)

Erlebach, Thomas (*with* Jacob, Riko; Mihaľák, Matúš; Nunkesser, Marc; Szabo, Gabor Vilmos; Widmayer, Peter) An algorithmic view on OVSF code assignment. (English summary) (*see* **2005d:68012**)

— *see also* **Anand, R. Sai et al.**, **2005e:68084**

Erwin, David J. *see* **Chartrand, Gary et al.**, **2005h:05175**

Evans, Robin J. *see* **Nair, Girish N.**, **2005d:93145**

Fan, Ping Zhi *see* **Peng, Daiyuan**, **2005e:94073**

Feder, Meir *see* **Erez, Elona**, **2005d:94064**

Fishkin, Aleksei V. *see* **Ageev, A. A. et al.**, (**2005c:68005**)

Flammini, Michele (*with* Navarra, Alfredo; Proskurowski, Andrzej) On routing of wavebands for all-to-all communications in all-optical paths and cycles. (English summary) **2005j:68012**

Fujiwara, Toru *see* **Yoshida, Maki**, (**2005b:94001**)

Furuichi, Shigeru *see* **Yanagi, Kenjiro et al.**, **2005i:15033**

Furuta, Takayuki A counterexample to the question proposed by Yanagi-Furuichi-Kuriyama on matrix inequalities and related counterexamples. (English summary) **2005j:15021**

Gafni, Eli *see* **Brito, Carlos et al.**, **2005e:68005**

Gao, Jun[3] *see* **Ma, Shuai et al.**

Georgiadis, Leonidas *see* **Tsibonis, Vagelis et al.**, **2005f:94059**

Goldsmith, Andrea *see* **Jindal, Nihar et al.**, **2005d:94069**

Golynski, Alexander *see* **Biedl, Therese et al.**, (**2005c:68003**)

Goodwin, Graham C. (*with* Haimovich, Hernan; Quevedo, Daniel E.; Welsh, James S.) A moving horizon approach to networked control system design. (English summary) **2005d:93059**

Gour, Gilad Faithful teleportation with partially entangled states. (English summary) **2005h:81093**

Gracia, Ignacio *see* **Padró, Carles et al.**, **2005d:94134**

Grouz Djerbi, Leila *see* **Billionnet, Alain et al.**, **2005d:90065**

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Haimovich, Hernan *see* **Goodwin, Graham C. et al.**, **2005d:93059**

Hall, Alexander *see* **Anand, R. Sai et al.**, **2005e:68084**

Har-Peled, Sariel *see* **Carmi, Paz et al.**, **2005k:68203**

Hassibi, Babak *see* **Rao, Chaitanya**

Helleseth, Tor *see* **Jang, Ji-Woong et al.**

Hilliam, Rachel M. (*with* Lawrance, Anthony J.) The dynamics and statistics of bivariate chaotic maps in communications modeling. (English summary) **2005a:37172**

Honary, Bahram *see* **Komninos, N. et al.**, (**2005b:94001**)

Hong, Sangjin *see* **Bolić, Miodrag et al.**, **2005h:93162**

Horton, Joseph D. *see* **Biedl, Therese et al.**, (**2005c:68003**)

Hromkovič, Juraj *see* **Ďuriš, Pavol et al.**, **2005e:68062**

Hu, Han Ping[1] *see* **Liu, Ling**[1] **et al.**, **2005d:94217**

Hwang, Gang Uk (*with* Choi, Bong Dae) Performance analysis of the $DAR(1)/D/c$ priority queue under partial buffer sharing policy. (English summary) **2005b:68030**

Interlando, J. Carmelo (*with* Elia, Michele) On the effective computation of isomorphisms between $\sigma_F(\mathfrak{O}_F/\mathfrak{p})$ and $\mathrm{GF}(N_F(\mathfrak{p}))$. (English summary) **2005h:11257**

Iordănescu, Anca Timing analysis of the handover algorithm in wireless Bluetooth networks. (English summary)

Jacob, Riko *see* **Erlebach, Thomas et al.**, (**2005d:68012**)

Jang, Ji-Woong (*with* Kim, Young-Sik; No, Jong-Seon; Helleseth, Tor) New family

of p-ary sequences with optimal correlation property and large linear span. (English summary)

Jindal, Nihar (*with* Vishwanath, Sriram; Goldsmith, Andrea) On the duality of Gaussian multiple-access and broadcast channels. (English summary) **2005d:94069**

Jorswieck, Eduard A. *see* **Boche, Holger**, **2005j:60093**

Jovičić, Aleksandar (*with* Viswanath, Pramod; Kulkarni, Sanjeev R.) Upper bounds to transport capacity of wireless networks. (English summary)

Jukna, Stasys *see* **Ďuriš, Pavol et al.**, **2005e:68062**

Kaklamanis, Christos *see* **Caragiannis, Ioannis et al.**, (**2005c:68004**) *and* (**2005c:68005**)

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Kashyap, Akshay (*with* Başar, Tamer; Srikant, Rayadurgam) Correlated jamming on MIMO Gaussian fading channels. (English summary)

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Keller, Nathan *see* **Barkan, Elad et al.**, **2005e:94108**

Kim, Che Soong *see* **Sztrik, János**, **2005j:60175**

Kim, Young-Sik *see* **Jang, Ji-Woong et al.**

Klapper, Andrew (*with* Carlet, Claude) Spectral methods for cross correlations of geometric sequences. (English summary) **2005a:94048**

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Koina, Rodoumta *see* **Bowong, Samuel et al.**, **2005c:93078**

Komninos, N. (*with* Honary, Bahram; Darnell, Michael) An efficient stream cipher Alpha1 for mobile and wireless devices. (English summary) (*see* **2005b:94001**)

Kononov, Aleksandr Veniaminovich *see* **Ageev, A. A. et al.**, (**2005c:68005**)

Kontorovich, V. Ya. *see* **Primak, Serguei et al.**, **2005i:60132**

Korže, Danilo (*with* Vesel, Aleksander) $L(2,1)$-labeling of strong products of cycles.

Kovalenko, Igor Nikolaevich *see* **Baum, Dieter**, **2005e:94083**

Kowalski, Dariusz R. (*with* Pelc, Andrzej) Time of deterministic broadcasting in radio networks with local knowledge. (English summary) **2005e:68253**

— (*with* Pelc, Andrzej) Time complexity of radio broadcasting: adaptiveness vs. obliviousness and randomization vs. determinism. (English summary) **2005j:68014**

Kráľ, Daniel An exact algorithm for the channel assignment problem. (English summary) **2005i:05186**

Kramer, Gerhard Correction to: "Feedback strategies for white Gaussian interference networks", and a capacity theorem for Gaussian interference channels with feedback [IEEE Trans. Inform. Theory **48** (2002), no. 6, 1423–1438; MR1908984 (2003e:94044)].

Krishnamurthy, Vikram (*with* Wang, Xiaodong[2]; Yin, Gang George) Spreading code optimization and adaptation in CDMA via discrete stochastic approximation. (English summary) **2005f:94035**

Kulkarni, Sanjeev R. *see* **Jovičić, Aleksandar et al.**

Kuriyama, Ken *see* **Yanagi, Kenjiro et al.**, **2005i:15033**

Laneman, J. Nicholas (*with* Tse, David N. C.; Wornell, Gregory W.) Cooperative diversity in wireless networks: efficient protocols and outage behavior. (English summary)

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Liang, Xue-Bin Orthogonal designs with maximal rates. (English summary) **2005a:05045**

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Ling, Alan C. H. *see* **Colbourn, Charles J. et al.**, **2005e:94316**

Liu, Ling[1] (*with* Wu, Xiao Gang; Hu, Han Ping[1]) Estimating system parameters of Chua's circuit from synchronizing signal. (English summary) **2005d:94217**

Liu, Ping[2] *see* **Xu, Zhengyuan et al.**, **2005a:94025**

López-Ortiz, Alejandro *see* **Biedl, Therese et al.**, (**2005c:68003**)

Lozano, Angel *see* **Tulino, Antonia M. et al.**, **2005a:94046**

Lyandres, Vladimir *see* **Primak, Serguei et al.**, **2005i:60132**

Ma, Shuai (*with* Tang, Shi Wei; Yang, Dong Qing; Wang, Teng Jiao; Gao, Jun[3]) Mining maximal moving sequential patterns in mobile environment. (English and Chinese summaries)

Malyshev, V. A. (*with* Pirogov, S. A.; Rybko, A. N.) Random walks and chemical networks. (English and Russian summaries) **2005g:90021**

Marcus, Brian H. Combining modulation codes and error correcting codes. (English summary) **2005d:94191**

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Moukam Kakmeni, F. M. *see* **Bowong, Samuel et al.**, **2005c:93078**

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Mu, Yi (*with* Susilo, Willy; Lin, Yan-Xia) Identity-based broadcasting. (English summary) **2005e:94244**

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Nair, Girish N. (*with* Evans, Robin J.) Stabilizability of stochastic linear systems with finite feedback data rates. (English summary) **2005d:93145**

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Navarra, Alfredo *see* **Flammini, Michele et al.**, **2005j:68012**

Nikoletseas, Sotiris E. (*with* Spirakis, Paul G.) The characteristic algorithmic approaches for ad-hoc mobile networks. (English summary)

No, Jong-Seon *see* **Jang, Ji-Woong et al.**

Nunkesser, Marc *see* **Erlebach, Thomas et al.**, (**2005d:68012**)

Padró, Carles (*with* Gracia, Ignacio; Martín Molleví, Sebastià) Improving the trade-off between storage and communication in broadcast encryption schemes. (English summary) **2005d:94134**

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Pelc, Andrzej *see* **Kowalski, Dariusz R.**, **2005e:68253** *and* **2005j:68014**

Pencolé, Yannick (*with* Cordier, Marie-Odile) A formal framework for the decentralised diagnosis of large scale discrete event systems and its application to telecommunication networks. (English summary) **2005m:68207**

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Popescu, Otilia (*with* Rose, Christopher) Sum capacity and TSC bounds in collaborative multibase wireless systems. (English summary)

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Rao, Chaitanya (*with* Hassibi, Babak) Analysis of multiple-antenna wireless links at low SNR. (English summary)

Rath, Gagan (*with* Guillemot, Christine) Characterization of a class of error correcting frames for robust signal transmission over wireless communication channels. (English summary)

Rizzi, Romeo *see* **Bertossi, Alan A. et al.**, (**2005b:68027**)

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Tadić, Bosiljka Modeling traffic of information packets on graphs with complex topology. (English summary) (*see* **2005c:00014**)

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Tassiulas, Leandros *see* **Tsibonis, Vagelis et al.**, **2005f:94059**

Torii, Hideyuki (*with* Nakamura, Makato[3]; Suehiro, Naoki) A new class of zero-correlation zone sequences. (English summary) **2005c:94041**

Tsai, Jason Sheng Hong (*with* Yu, Jiang Ming; Canelon, Jose I.; Shieh, Leang-San) Extended-Kalman-filter-based chaotic communication. (English summary) **2005i:94010**

Tse, David N. C. (*with* Viswanath, Pramod) On the capacity of the multiple antenna broadcast channel. (English summary) **2005f:94043**

— (*with* Viswanath, Pramod; Zheng, Lizhong) Diversity-multiplexing tradeoff in multiple-access channels. (English summary)

— *see also* **Laneman, J. Nicholas et al.**

Tsibonis, Vagelis (*with* Georgiadis, Leonidas; Tassiulas, Leandros) Exploiting wireless channel state information for throughput maximization. (English summary) **2005f:94059**

Tulino, Antonia M. (*with* Lozano, Angel; Verdú, Sergio) Bandwidth-power tradeoff of multi-antenna systems in the low-power regime. (English summary) **2005a:94046**

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Worthen, Andrew P. (*with* Stark, Wayne E.) On the channel memory-diversity tradeoff in communication systems. (English summary) (*see* **2005a:94003**)

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Xu, Zhengyuan (*with* Liu, Ping[2]; Zoltowski, Michael D.) Diversity-assisted channel estimation and multiuser detection for downlink CDMA with long spreading codes. (English summary) **2005a:94025**

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Hirota, Kaoru (*with* Nobuhara, H.; Kawamoto, Kazuhiko; Yoshida, Shinichi) On a lossy image compression/reconstruction method based on fuzzy relational equations. (English summary)
Hu, Y. S. *see* **Chang, Chin-Chen et al., (2005i:42002)**
Huan, Zhong Dan (*with* Kong, Ling Hai; Huang, Hai Yang) An enhanced denoising PDE model in image restoration. (Chinese. English and Chinese summaries) **2005b:94005**
Huang, Hai Yang *see* **Huan, Zhong Dan et al., 2005b:94005**
Hughes, Joy V. Cellular automata for imaging, art, and video. (*see* **2005b:82059**)
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Icho, Keiji (*with* Iiguni, Youji; Maeda, Hajime) Nonlinear image restoration using a radial basis function network. (English summary)
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Kang, Jing Application of a higher-order approximation biorthogonal multiwavelet in image compression. (Chinese. English and Chinese summaries)
Kang, Kyeongok *see* **Chang, Hyun Sung**
Karam, Lina J. *see* **Liu, Zhen[4]**, 2005j:94006
Katritzke, F. (*with* Merzenich, W.; Thomas, Michael[1]) Enhancements of partitioning techniques for image compression using weighted finite automata. (English summary) 2005c:94009
Katsaggelos, Aggelos K. *see* **Wang, Haohong et al.**, 2005d:94017
Katulev, A. N. (*with* Kuznetsov, V. N.; Malevinskiĭ, M. F.; Solomakha, G. M.) A two-dimensional polynomial filter. (Russian. Russian summary) 2005f:94009
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Kawamoto, Kazuhiko *see* **Hirota, Kaoru et al.**
Kawata, Sotaro (*with* Hirose, Akira) Coherent lightwave neural network systems: use of frequency domain. (*see* 2005b:00018)
Keller, Yosi (*with* Averbuch, Amir Z.) Fast motion estimation using bidirectional gradient methods. (English summary)
— (*with* Averbuch, Amir Z.; Israeli, Moshe) Pseudopolar-based estimation of large translations, rotations, and scalings in images. (English summary) 2005h:94007
Keriven, Renaud *see* **Faugeras, Olivier et al.**, (2005a:94002)
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Khrennikov, Andrei Yu. *see* **Kotovich, N. V. et al.**
Kieffer, John C. *see* **Peng, Kewu**
Kimmel, Ron *see* **Sochen, Nir A. et al.**, 2005g:94010
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Kong, Ling Hai *see* **Huan, Zhong Dan et al.**, 2005b:94005
Kotovich, N. V. (*with* Khrennikov, Andrei Yu.; Borzistaya, E. L.) Image compression by means of representation by p-adic mappings and approximation by Mahler polynomials. (Russian)
Krim, Hamid *see* **He, Yun et al.**, 2005d:94008 *and* **Ben Hamza, A. et al.**
Křížek, Pavel The use of bilinear rectangular elements in reconstruction of panoramic images. (*see* 2005c:65003)
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Lai, Shang-Hong *see* **Yang, Chyuan-Huei Thomas et al.**
Lee, Chin-Fan *see* **Chan, Yung-Kuan et al.**
Lee, Sanghoon (*with* Crawford, Melba M.) Unsupervised multistage image classification using hierarchical clustering with a Bayesian similarity measure. (English summary) 2005h:94008
Li, Jin[1] Image compression: the mathematics of JPEG 2000. (English summary) 2005c:94010
Li, Qiang *see* **Xiao, Zhitao et al.**, (2005i:42002)
Li, Suo Ping (*with* Yin, Xiaopei) New model used for image denoising and its grid numerical algorithm. (English summary)
Li, Zhihui *see* **Liu, Yuanning et al.**, (2005i:42002)
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Liang, Hua Guo (*with* Jiang, Cui Yun) Efficient test data compression and decompression based on alternation and run length codes. (Chinese. English and Chinese summaries) 2005d:94009
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Lin, En-Bing (*with* Liu, Paul C.) Wavelet based comparison of infrared and water vapor images. (English summary)
Lintner, Stéphane (*with* Malgouyres, François) Solving a variational image restoration model which involves L^∞ constraints. (English summary) 2005f:94010
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Liu, Shaohui (*with* Yao, Hongxun; Fan, Xiaopeng; Gao, Wen[1]) Steganalysis of images created in wavelet domain using quantization modulation. (English summary) (*see* 2005i:42002)
Liu, Weiguang (*with* Zhou, Lihua) Image fusion using wavelet packet transform. (English summary) (*see* 2005i:42002)
Liu, Yuanning (*with* Li, Zhihui; Yuan, Shenmiao; Xu, Tao) Iris image analysis and reconstruction based on zero-crossing wavelet transform. (English summary) (*see* 2005i:42002)
Liu, Zhen[4] (*with* Karam, Lina J.) Mutual information-based analysis of JPEG2000 contexts. (English summary) 2005j:94006
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Lu, Hong Jiong Processing fragmentary images by several level sets. (Chinese. English and Chinese summaries)
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Mao, Yao Bin (*with* Chen, Guanrong; Lian, Shi Guo) A novel fast image encryption scheme based on 3D chaotic Baker maps. (English summary) 2005j:94007
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Mikula, Karol (*with* Preußer, Tobias; Rumpf, Martin) Morphological image sequence processing. (English summary) 2005f:94011
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Nikolova, Mila A variational approach to remove outliers and impulse noise. (English summary) 2005b:94006
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Oh, Seungseok (*with* Milstein, Adam B.; Bouman, Charles A.; Webb, Kevin J.) A general framework for nonlinear multigrid inversion. (English summary) 2005h:94009
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Park, Jiho (*with* Park, Dong-Chul; Marks, Robert J., II; El-Sharkawi, Mohamed A.) Recovery of image blocks using the method of alternating projections. (English summary)
Peng, Kewu (*with* Kieffer, John C.) Embedded image compression based on wavelet pixel classification and sorting. (English summary)
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Popa, Constantin (*with* Zdunek, Rafal) Kaczmarz extended algorithm for tomographic image reconstruction from limited data. (English summary) 2005i:94001
Prasad, V. Shiv Naga (*with* Yegnanarayana, B.) Finding axes of symmetry from potential fields. (English summary) 2005g:94009
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— *see also* **Paragios, Nikos**, (2005a:94002)
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Shen, Jianhong Bayesian video dejittering by the BV image model. (English summary) 2005h:94010
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Sochen, Nir A. (*with* Sagiv, Chen; Kimmel, Ron) Stereographic combing a porcupine or studies on direction diffusion in image processing. (English summary) **2005g:94010**
Solé, Andreas F. (*with* Caselles, Vicent; Sapiro, Guillermo R.; Aràndiga, Francesc) Morse description and geometric encoding of digital elevation maps. (English summary)
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Son, Jun Wan (*with* Miyata, Manabu; Yamada, Masashi[1]; Kawaguchi, Tomoaki) On a discrimination of texture images based on the intricacy of functions. **2005d:94011**
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Tanács, Attila Image registration methods based on interactively identified point pairs. (Hungarian. English and Hungarian summaries) **2005f:94015**
Tanaka, Kazuyuki[2] Statistical-mechanical approach to image processing. (English summary) **2005d:94015**
— (*with* Shouno, Hayaru; Okada, Masato; Titterington, D. Michael) Accuracy of the Bethe approximation for hyperparameter estimation in probabilistic image processing. (English summary) **2005d:94016**
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Vaganova, N. A. The image postprocessing by local average integrals for fractal image compression. (English summary) (*see* **2005i:65006**)
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Wang, Dong Mei (*with* Jin, Yi Qing) Semi-period of doubly even order magic square transformed digital image. (Chinese. English and Chinese summaries)
Wang, Haohong (*with* Schuster, Guido M.; Katsaggelos, Aggelos K.; Pappas, Thrasyvoulos N.) An efficient rate-distortion optimal shape coding approach utilizing a skeleton-based decomposition. (English summary) **2005d:94017**
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Wang, Mao Hua[3] (*with* Ma, Hong[1]) Wavelet transformation on hidden Markov models. (English summary) (*see* **2005i:42002**)
Wang, Shengqian (*with* Zou, Daowen; Shen, Shihua; Fang, Zhijun) Inter-scale dependency based adaptive shrinkage de-noising for image. (English summary) (*see* **2005i:42002**)
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— *see also* **Ballester, Coloma et al., 2005b:68271**; **Andreu, Fuensanta et al., 2005c:35002** *and* **Bellettini, Giovanni et al., 2005m:35209**
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Ronse, Christian (*with* Tajine, Mohamed) Morphological sampling of closed sets. (English summary) **2005h:68162**
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Rumpf, Martin *see* **Droske, M.**, **2005a:49022** *and* **Strzodka, R. et al.**, **2005k:65114**
Sanfeliu, Alberto *see* **Staffetti, Ernesto et al.**, **2005m:68230**
Santhanam, Narayana P. *see* **Orlitsky, Alon et al.**, **2005f:94066** *and* **Jevtić, Nikola et al.**, **2005i:68018**
Sapiro, Guillermo R. *see* **Caselles, Vicent et al.**, **2005a:68219**
Schelkens, Peter *see* **Andreopoulos, Yiannis et al.**, **2005j:94009**
Schell, Thomas (*with* Uhl, Andreas; Zinterhof, Peter) Measures of uniform distribution in wavelet based image compression. (English summary)

Scherzer, Otmar Taut-string algorithm and regularization programs with G-norm data fit. (English summary) **2005m:62021**
— *see also* **Frigaard, I. A. et al., 2005b:35022**
Scheunders, Paul *see* **Hung, Chih-Cheng et al.**
Schölkopf, Bernhard *see* **Romdhani, Sami et al.**
Schonberg, Daniel *see* **Johnson, Mark et al., 2005e:94166**
Sciortino, Marinella *see* **Giancarlo, Raffaele, (2005a:68010)**
Seidel, Hans-Peter *see* **Theisel, Holger et al., (2005j:68003)**
Selesnick, Ivan W. *see* **Abdelnour, A. Farras, 2005h:42065**
Sendov, Blagovest Hausdorff distance and image processing. (Russian. Russian summary) **2005e:41088**
Serëzhnikova, T. I. *see* **Vasin, V. V., 2005f:65080**
Serratosa, Francesc *see* **Staffetti, Ernesto et al., 2005m:68230**
Sessa, Salvatore *see* **Loia, Vincenzo**
Setarehdan, S. Kamal *see* **Dooley, Saul R. et al., 2005d:68137**
Sethian, J. A. *see* **Malladi, Ravikanth, (2005a:92002)**
Ševčovič, Daniel *see* **Mikula, Karol, 2005e:35116**
Shang, Xiaoqing (*with* Zhang, Bin; Song, Guo Xiang) Multiwavelet thresholding with context modeling for image denoising. (English summary) (*see* **2005i:42002**)
Shaw, Chandrama *see* **Maji, Pradipta et al., 2005d:68095**
Shchepin, E. V. (*with* Shevelev, M. V.; Shchepin, N. E.) On the topology of the number 64. (Russian)
Shchepin, N. E. *see* **Shchepin, E. V. et al.**
Shevelev, M. V. *see* **Shchepin, E. V. et al.**
Shih, Frank Y. (*with* Cheng, Shouxian) Adaptive mathematical morphology for edge linking. (English summary)
Shimizu, Eiko (*with* Kaneko, Akira) Implementation of algebraic-geometric code by a Miura curve and its visualization. (English summary) **2005a:94107**
Sikdar, Biplab K. *see* **Maji, Pradipta et al., 2005d:68095**
Sikdar, Somnath *see* **Adhikari, Avishek, (2005d:94154)**
Simon, Károly[1] *see* **Keane, Michael S. et al., 2005d:28019**
Sokol, Dina *see* **Amir, Amihood et al., 2005g:68179**
Solé, Andreas F. *see* **Caselles, Vicent et al., 2005a:68219**
Solomyak, Boris *see* **Keane, Michael S. et al., 2005d:28019**
Sommer, Gerald *see* **Felsberg, M., 2005b:68273**
Song, Guo Xiang *see* **Shang, Xiaoqing et al., (2005i:42002)**
Soraghan, John J. *see* **Dooley, Saul R. et al., 2005d:68137**
Srivastava, Anuj *see* **Mio, W. et al., 2005d:41008**
Staffetti, Ernesto (*with* Grau, Antoni; Serratosa, Francesc; Sanfeliu, Alberto) Object and image indexing based on region connection calculus and oriented matroid theory. (English summary) **2005m:68230**
Stewart, Robert W. *see* **Dooley, Saul R. et al., 2005d:68137**
(Stiehl, Siegfried H.) *see* **Lim, Ji-Young, 2005k:68214**
Stockmeyer, Larry *see* **Ajtai, Miklós et al., 2005m:68060**
Storer, James A. *see* **Rizzo, Francesco et al.**
Strzodka, R. (*with* Droske, M.; Rumpf, Martin) Image registration by a regularized gradient flow. A streaming implementation in DX9 graphics hardware. (English summary) **2005k:65114**
Su, Mu-Chun *see* **Chou, Chien-Hsin et al.** *and* **Hung, Chih-Cheng et al.**
Sur, Frédéric *see* **Cao, Frédéric et al., 2005m:68222**
Svalbe, Imants Sampling properties of the discrete Radon transform. (English summary) **2005b:44005**
Tajine, Mohamed *see* **Ronse, Christian, 2005h:68162**
Tang, Yu *see* **Zhou, Hai Fang et al.**
Tapia-Rodriguez, Ernesto *see* **Van Horebeek, Johan, (2005j:68006)**
Tasche, Manfred *see* **Plonka, Gerlind, (2005a:41001)**
Theisel, Holger (*with* Rössl, Christian; Seidel, Hans-Peter) Topology preserving thinning of vector fields on triangular meshes. (English summary) (*see* **2005j:68003**)
Thorens, Lionel *see* **Alpers, Andreas et al., (2005j:68006)**
Torr, Philip *see* **Romdhani, Sami et al.**
Tougne, Laure *see* **Feschet, Fabien, 2005b:68274**
Tsogka, Chrysoula *see* **Borcea, Liliana et al., 2005a:94010**
Turski, Jacek Geometric Fourier analysis of the conformal camera for active vision. (English summary) **2005i:43010**
Uhl, Andreas *see* **Schell, Thomas et al.**
Van der Auwera, Geert *see* **Andreopoulos, Yiannis et al., 2005j:94009**
Van Droogenbroeck, M. (*with* Buckley, Michael James) Morphological erosions and openings: fast algorithms based on anchors. (English summary) **2005m:68233**
Van Horebeek, Johan (*with* Tapia-Rodriguez, Ernesto) About the limiting behaviour of iterated robust morphological operators. (English summary) (*see* **2005j:68006**)
Vasconcelos, Nuno On the efficient evaluation of probabilistic similarity functions for image retrieval. (English summary) **2005e:68038**
— Minimum probability of error image retrieval. (English summary)
Vasin, V. V. (*with* Serëzhnikova, T. I.) A two-stage method for the approximation of nonsmooth solutions, and the restoration of a noisy image. (Russian. Russian summary) **2005f:65080**
Verdera, Joan[2] *see* **Ballester, Coloma et al., 2005b:68271**
Vese, Luminita *see* **Cecil, Thomas C. et al., 2005j:65062**
Vetterli, Martin *see* **Dragotti, Pier Luigi, 2005a:94012**
Villanueva Micó, R. J. *see* **Baeza, I. et al.**
Villanueva-Oller, J. *see* **Baeza, I. et al.**
Virgilio, Michele *see* **Benci, Vieri et al., 2005j:94015**
Vogel, Curtis R. *see* **Bardsley, Johnathan M., 2005d:65094**
Wang, Dong *see* **Du, Yang, (2005i:42002)**
Wang, Gui (*with* Guan, Zhicheng) A variational image smoothing model with global convergence. (English summary)
Wang, Hai-hui A new multiwavelet-based approach to image fusion. (English summary)
Wang, Jian Min[1] (*with* Mao, M. Z.; Xue, Y. Y.) Global distortion optimal bit allocation scheme for image compression. (English summary) (*see* **2005i:42002**)
Wang, Li Sheng[3] (*with* Xu, Zong Ben) Review on PDE-based image processing techniques and their applications in biomedical images analysis. (Chinese. English and Chinese summaries)
Wang, Yalin (*with* Gu, Xianfeng; Yau, Shing-Tung) Volumetric harmonic map. (English summary) **2005k:68211**
Wang, Yong Ge[2] *see* **Peng, Li Zhong, 2005g:94011**
Wang, Zhao *see* **Fu, Xianping et al., (2005i:42002)**
Wang, Zhi He *see* **Zhao, Xue Feng**
Weickert, Joachim (*with* Kühne, Gerald) Fast methods for implicit active contour models. (English summary) (*see* **2005a:94002**)
Wells, William, III *see* **Leventon, Michael et al., (2005a:94002)**
Whitaker, Ross *see* **Museth, Ken et al., (2005a:94002)**
Williams, Lance R. *see* **Zweck, John, 2005d:68131**
Wong, Kin Hong (*with* Or, S. H.; Chang, M. M. Y.) Pose tracking for virtual walk-through environment construction. (English summary) (*see* **2005d:35008**)
Wu, Wei Biao (*with* Ravishankar, Chinya V.) The performance of difference coding for sets and relational tables. (English summary) **2005m:68065**
Wu, Xiaobo *see* **Lu, Jingtai et al., (2005i:42002)**
Wu, Xiaodong[1] Segmenting doughnut-shaped objects in medical images. (English summary) (*see* **2005c:68004**)
Xu, Chenyang *see* **Han, Xiao[2] et al., (2005a:94002)**
Xu, Xian-bin (*with* Yu, Wei; Chen, Xin-meng) RTP-packets' loss recovery scheme based on layered buffer-routers. (English summary)
Xu, Zong Ben *see* **Wang, Li Sheng[3]**
Xue, Y. Y. *see* **Wang, Jian Min[1] et al., (2005i:42002)**
Yamanaka, Kazuo *see* **Miyajima, Teruyuki, (2005b:00018)**
Yang, En-Hui *see* **He, Da-ke, 2005d:68033**
Yang, Shuping (*with* Lin, Xinggang) Key frame extraction using unsupervised clustering based on a statistical model. (English summary)
Yang, Xue Jun[2] *see* **Zhou, Hai Fang et al.**
Yannakakis, Mihalis *see* **Alur, Rajeev et al., (2005b:68010)**
Yau, Shing-Tung *see* **Wang, Yalin et al., 2005k:68211**
Younes, Laurent ★ Invariance, déformations et reconnaissance de formes. (French) [Invariance, deformations and pattern recognition] **2005b:68252**
Yu, Pao-Ta *see* **Lin, Tzu-Chao**
Yu, Sheng *see* **Ilie, Lucian et al., 2005a:68167**
Yu, Wei *see* **Xu, Xian-bin et al.**
Yu, Yuan-Hui (*with* Chang, Chin-Chen) Scenery image segmentation using support vector machines. (English summary)
Zhang, Bin *see* **Shang, Xiaoqing et al., (2005i:42002)**
Zhang, Daoqiang (*with* Chen, Songcan; Zhou, Zhi-Hua) A new face recognition method based on SVD perturbation for single example image per person. (English summary)
Zhang, Junan *see* **Orlitsky, Alon et al., 2005f:94066**
Zhang, Kaizhong *see* **Ilie, Lucian et al., 2005a:68167**
Zhao, Xue Feng (*with* Wang, Zhi He) Digital image scrambling scheme based on Möbius band. (Chinese. English and Chinese summaries)
Zhong, Hua *see* **Gao, Xie Ping, 2005d:94020**
Zhou, Hai Fang (*with* Tang, Yu; He, Kai Tao; Liu, Guang Ming; Yang, Xue Jun[2]) An automatic global registration algorithm based on wavelet and its parallel implementation. (Chinese. English and Chinese summaries)
Zhou, Zhi-Hua *see* **Zhang, Daoqiang et al.**
Zhu, Lian *see* **Reza, Ali Moghaddamjoo, 2005i:42047**
Zhu, Rihong *see* **Ding, Xuxing et al., (2005i:42002)**
Zinterhof, Peter *see* **Schell, Thomas et al.**
Zweck, John (*with* Williams, Lance R.) Euclidean group invariant computation of stochastic completion fields using shiftable-twistable functions. (English summary) **2005d:68131**

Items listed otherwise than by author

Complex-valued neural networks ★ Complex-valued neural networks. **2005b:00018**
Geometric level set methods in imaging, vision, and graphics ★ Geometric level set methods in imaging, vision, and graphics. **2005a:94002**
Geometric methods in bio-medical image processing ★ Geometric methods in bio-medical image processing. **2005a:92002**
Progress in Mathematics *see* **Andreu, Fuensanta et al., 2005c:35002**

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Bracciali, C. F. (*with* Li, Xin[3]; Sri Ranga, A.) Real orthogonal polynomials in frequency analysis. (English summary) **2005e:94014**
Gao, Xie Ping (*with* Zhong, Hua) Parameterization of 3-channel non-separable 2-D wavelets and filters. (English summary) **2005d:94020**
Kadous, Tamer *see* **Liu, Ke[2] et al., 2005e:94015**
Li, Xin[3] *see* **Bracciali, C. F. et al., 2005e:94014**
Liu, Ke[2] (*with* Kadous, Tamer; Sayeed, Akbar M.) Orthogonal time-frequency signaling over doubly dispersive channels. (English summary) **2005e:94015**
Peng, Li Zhong (*with* Wang, Yong Ge[2]) Construction of compactly supported orthonormal wavelets with beautiful structure. (English summary) **2005g:94011**
Raich, Raviv (*with* Zhou, G. Tong) Orthogonal polynomials for complex Gaussian processes. (English summary) **2005e:94016**
Sayeed, Akbar M. *see* **Liu, Ke[2] et al., 2005e:94015**
Sri Ranga, A. *see* **Bracciali, C. F. et al., 2005e:94014**
Wahlberg, Bo Orthogonal rational functions: a transformation analysis. (English summary) **2005d:94021**
Wang, Yong Ge[2] *see* **Peng, Li Zhong, 2005g:94011**
Zhong, Hua *see* **Gao, Xie Ping, 2005d:94020**
Zhou, G. Tong *see* **Raich, Raviv, 2005e:94016**

Items with secondary classifications in 94A11

Adhami, Reza *see* **Ashrafi, Ashkan et al., 2005e:94018**

Ashrafi, Ashkan (*with* Adhami, Reza; Joiner, Laurie L.; Kaveh, Parisa) Arbitrary waveform DDFS utilizing Chebyshev polynomials interpolation. (English summary) **2005e:94018**

Borwein, Peter B. (*with* Ferguson, R. A.) A complete description of Golay pairs for lengths up to 100. (English summary) **2005c:11028**

Cotronei, Mariantonia (*with* Lo Cascio, Maria Laura; Sauer, Thomas) Dual non-negative rational symbols with arbitrary approximation order. (English summary) **2005f:41038**

Ferguson, R. A. *see* **Borwein, Peter B., 2005c:11028**

Goresky, Mark (*with* Klapper, Andrew) Periodicity and correlation properties of d-FCSR sequences. (English summary) **2005m:94021**

Huang, Da Ren (*with* Li, Feng; Yang, Li Hua[1]) L^1-based decomposition and reconstruction algorithms and W-matrices. (English summary) **2005a:94018**

Iinbor, Ruska *see* **Nikolov, Zdravko et al., 2005f:94055**

Jacovitti, Giovanni *see* **Neri, Alessandro, 2005a:94022**

Joiner, Laurie L. *see* **Ashrafi, Ashkan et al., 2005e:94018**

Kaveh, Parisa *see* **Ashrafi, Ashkan et al., 2005e:94018**

Klapper, Andrew *see* **Goresky, Mark, 2005m:94021**

Klassen, Eric Paul *see* **Srivastava, Anuj, 2005a:62131**

Korsemov, Chavdar *see* **Nikolov, Zdravko et al., 2005f:94055**

Li, Feng *see* **Huang, Da Ren et al., 2005a:94018**

Liang, Xue-Bin Orthogonal designs with maximal rates. (English summary) **2005a:05045**

Lo Cascio, Maria Laura *see* **Cotronei, Mariantonia et al., 2005f:41038**

Mukundan, R. Some computational aspects of discrete orthonormal moments. (English summary) **2005f:42056**

Neri, Alessandro (*with* Jacovitti, Giovanni) Maximum likelihood localization of 2-D patterns in the Gauss-Laguerre transform domain: theoretic framework and preliminary results. (English summary) **2005a:94022**

Nikolov, Zdravko (*with* Iinbor, Ruska; Korsemov, Chavdar; Toshev, Hristo) Sampling and interpolation of periodic signals. (English and Bulgarian summaries) **2005f:94055**

Sauer, Thomas *see* **Cotronei, Mariantonia et al., 2005f:41038**

Shen, Xiaoping *see* **Walter, Gilbert G., 2005c:42041**

Srivastava, Anuj (*with* Klassen, Eric Paul) Bayesian and geometric subspace tracking. (English summary) **2005a:62131**

Toshev, Hristo *see* **Nikolov, Zdravko et al., 2005f:94055**

Waadeland, Haakon A limit theorem for approximants of PPC-fractions used in frequency analysis. **2005d:30005**

Walter, Gilbert G. (*with* Shen, Xiaoping) Wavelets based on prolate spheroidal wave functions. (English summary) **2005c:42041**

Yang, Li Hua[1] *see* **Huang, Da Ren et al., 2005a:94018**

94A12 Signal theory (characterization, reconstruction, etc.)

Abeida, Habti *see* **Delmas, Jean-Pierre**

Adhami, Reza *see* **Ashrafi, Ashkan et al., 2005e:94018**

Agaian, Sos (*with* Sarukhanyan, A. G.; Astola, Jaakko T.) Skew Williamson-Hadamard transforms. (English summary) **2005j:94008**

Ahmad, M. Omair *see* **Bouguezel, Saad et al., 2005f:94017**; **Samadi, Saed et al., 2005g:94022** *and* **2005h:94019**

Ainsleigh, Phillip L. (*with* Greineder, Stephen G.; Kehtarnavaz, Nasser) Classification of nonstationary narrowband signals using segmented chirp features and hidden Gauss-Markov models. (English summary) **2005h:94011**

Al-Akaidi, Marwan ★ Fractal speech processing. **2005g:94012**

Alameda-Hernández, Enrique *see* **Blanco, David et al., 2005c:94014**

Albera, Laurent (*with* Ferréol, Anne; Comon, Pierre; Chevalier, Pascal) Blind identification of overcomplete mixtures of sources (BIOME). (English summary) **2005f:94016**

Al-Dabbagh, Ahmed (*with* Darnell, Michael) The synthesis of TD-sequences and their application to multi-functional communication systems. (English summary) (*see* **2005b:94001**)

Amari, Shun-ichi (*with* Burnashev, M. V.) On some singularities in problems of parameter estimation. (Russian. Russian summary) **2005g:94013**

— *see also* **Burnashev, M. V., 2005g:94015**

Andrade, Roberto F. S. *see* **Borges, Ernesto P. et al., 2005d:94024**

Andreopoulos, Yiannis (*with* Munteanu, Adrian; Van der Auwera, Geert; Cornelis, Jan P. H.; Schelkens, Peter) Complete-to-overcomplete discrete wavelet transforms: theory and applications. (English summary) **2005j:94009**

Andrieu, Christophe (*with* Davy, Manuel; Doucet, Arnaud) Efficient particle filtering for jump Markov systems. Application to time-varying autoregressions. (English summary) **2005e:94017**

Apkarian, Pierre *see* **Hoang, Nguyen Thien et al., 2005f:94022**

Arce, Gonzalo R. *see* **Hoyos, Sebastian et al., 2005d:94033**

Arıkan, Orhan *see* **Durak, Lütfiye, 2005a:94013**

Ashrafi, Ashkan (*with* Adhami, Reza; Joiner, Laurie L.; Kaveh, Parisa) Arbitrary waveform DDFS utilizing Chebyshev polynomials interpolation. (English summary) **2005e:94018**

Astola, Jaakko T. *see* **Stanković, Milena et al., 2005c:94021** *and* **Agaian, Sos et al., 2005j:94008**

Athaudage, Chandranath R. N. *see* **Krishnamurthy, Vikram et al.**

Atoyan, A. (*with* Patera, Jiří) Properties of continuous Fourier extension of the discrete cosine transform and its multidimensional generalization. (English summary) **2005d:94022**

Aviyente, Selin (*with* Williams, William J.) A centrosymmetric kernel decomposition for time-frequency distribution computation. (English summary) **2005c:94013**

Azzalini, Alexandre (*with* Farge, Marie; Schneider, Kai) Nonlinear wavelet thresholding: a recursive method to determine the optimal denoising threshold. (English summary) **2005j:94010**

Bacca, Jan *see* **Hoyos, Sebastian et al., 2005d:94033**

Baggeroer, Arthur B. *see* **Xu, Wen[2] et al., 2005g:94025**

Banerjee, Santo *see* **Saha, Papri et al., 2005f:94027**

Bao, Paul *see* **Zhang, Lei et al.**

Bao, Zheng *see* **Shui, Peng-Lang, 2005f:94028**

Barrera, Junior *see* **Brun, Marcel et al.**

Bass, Richard F. (*with* Gröchenig, Karlheinz) Random sampling of multivariate trigonometric polynomials. (English summary) **2005j:94011**

Beauchemin, Steven S. *see* **Beaudoin, Normand, 2005e:94019**

Beaudoin, Normand (*with* Beauchemin, Steven S.) A new numerical Fourier transform in d-dimensions. (English summary) **2005e:94019**

Benesty, Jacob (*with* Gänsler, Tomas) New insights into the RLS algorithm. (English summary) **2005d:94023**

Bershad, Neil J. (*with* Bist, Anurag) Fast coupled adaptation for sparse impulse responses using a partial Haar transform. (English summary)

Besson, Olivier[2] (*with* Monakov, Andrei A.; Chalus, Christophe) Signal waveform estimation in the presence of uncertainties about the steering vector. (English summary)

— (*with* Vincent, François) Performance analysis of beamformers using generalized loading of the covariance matrix in the presence of random steering vector errors. (English summary)

Biancalana, Martin *see* **Stuff, Mark A. et al., 2005a:94023**

Bist, Anurag *see* **Bershad, Neil J.**

Blackledge, Jonathan M. ★ Digital signal processing. (English summary) **2005a:94009**

Blanco, David (*with* Ruiz, Diego P.; Alameda-Hernández, Enrique; Carrión, María C.) A fourth-order stationarity and ergodicity conditions for harmonic processes. (English summary) **2005c:94014**

Blu, Thierry (*with* Thévenaz, Philippe; Unser, Michael) Complete parameterization of piecewise-polynomial interpolation kernels. (English summary) **2005e:94020**

Boĭko, L. L. Wavelets and the estimation of discontinuous functions. (Russian. Russian summary) **2005h:94012**

Bonaventura, Marco *see* **Ysebaert, Geert et al.**

Bonnet, Catherine (*with* Partington, Jonathan R.; Sorine, Michel) A modified matching pursuit algorithm applied to the approximation of vecto-cardiogram data. (English summary)

Borcea, Liliana (*with* Papanicolaou, George; Tsogka, Chrysoula) Theory and applications of time reversal and interferometric imaging. (English summary) **2005a:94010**

Borges, Ernesto P. (*with* Tsallis, Constantino; Miranda, José G. V.; Andrade, Roberto F. S.) Mother wavelet functions generalized through q-exponentials. (English summary) **2005d:94024**

Borgosz, Jan (*with* Cyganek, Bogusław) Telecommunication jitter measurement in the transmultipexer systems method based on the wavelet pattern correlation. (English summary) (*see* **2005c:00015**)

Borloz, Bruno *see* **Xerri, Bernard, 2005d:94044**

Bose, N. K. (*with* Lertrattanapanich, S.) Polynomial matrix factorization, multidimensional filter banks, and wavelets. (English summary) (*see* **2005h:94001**)

Bouguezel, Saad (*with* Ahmad, M. Omair; Swamy, M. N. S.) A new split-radix FHT algorithm for length-$q * 2^m$ DHTs. (English summary) **2005f:94017**

Boyer, Eric *see* **Forster, Philippe et al., 2005f:94021**

Bradley, Elizabeth *see* **Robins, Vanessa et al., 2005e:94034**

Braga-Neto, Ulisses (*with* Goutsias, John) Supremal multiscale signal analysis. (English summary) **2005g:94014**

Brezulianu, Adrian (*with* Teodorescu, Horia-Nicolai) A perceptual approach to signal processing for medical applications: neuro-fuzzy filtering system using orthogonal representation. (French summary)

Brito, Alejandro E. (*with* Villalobos, Cristina; Cabrera, Sergio D.) Interior-point methods in l_1 optimal sparse representation algorithms for harmonic retrieval. (English summary) **2005i:94003**

Brun, Marcel (*with* Hirata, Roberto, Jr.; Barrera, Junior; Dougherty, Edward R.) Nonlinear filter design using envelopes. (English summary)

Burel, Gilles Optimal design of transform-based block digital filters using a quadratic criterion. (English summary)

Burnashev, M. V. (*with* Amari, Shun-ichi) Estimation of distribution density with relative entropy as the loss criterion. (Russian. Russian summary) **2005g:94015**

— *see also* **Amari, Shun-ichi, 2005g:94013**

Buzzi, Stefano (*with* Lops, Marco; Sardellitti, Stefania) Further results on Cramér-Rao bounds for parameter estimation in long-code DS/CDMA systems. (English summary) **2005i:94004**

Byerly, Robert E. (*with* Drager, Lance D.; Lee, Jeffrey M.) Observability of permutations, and stream ciphers. (English summary) **2005a:94011**

Caballero-Águila, Raquel *see* **Nakamori, Seiichi et al., 2005h:94017**

Cabrera, Sergio D. *see* **Brito, Alejandro E. et al., 2005i:94003**

Carini, Alberto *see* **Sicuranza, Giovanni L.**

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Cattani, Carlo Haar wavelet-based technique for sharp jumps classification. (English summary) **2005m:94003**

Chalus, Christophe *see* **Besson, Olivier[2] et al.**

Chan, Shing-Chow *see* **Yeung, K. S.**

Chang, Ja-Han *see* **Pei, Soo-Chang et al., 2005e:94033**

Chen, Biao (*with* Wang, Hao[6]) Blind estimation of OFDM carrier frequency offset via oversampling. (English summary)

Chen, Che-Hong (*with* Liu, Bin-Da; Yang, Jar-Ferr; Wang, Jiun-Lung) Efficient recursive structures for forward and inverse discrete cosine transform. (English summary) **2005f:94018**

Chen, Tian Ping *see* **Hua, Yingbo, 2005c:94016**

Chen, Yu-Wei (*with* Chiu, Chui-Chang) A novel broadcasting scheme for considering the limitation of STB capability. (English summary)

Cheng, Kuang-Peng *see* **Lee, Ju Hong, 2005h:94015**

Chevalier, Pascal *see* **Albera, Laurent et al., 2005f:94016**

Chin, Francois Po-Shin *see* **Ko, C. C. et al.**

Ching, Pak-Chung *see* **Ma, Wing-Kin et al., 2005f:94025**

Chiu, Chui-Chang *see* **Chen, Yu-Wei**

Cho, E. C. *see* **Iyengar, S. Sitharama et al., 2005d:94034**

Cho, Joon Ho Joint transmitter and receiver optimization in additive cyclostationary noise. (English summary)

Cho, Jun Dong *see* **Erzin, A. I., 2005e:94021**

Cho, Nam Ik *see* **Park, Sang Yoon**

Christophersen, Nils *see* **Dahl, Tobias et al.**
Chudnovsky, David V. (*with* Chudnovsky, Gregory V.) One bit world. **2005b:94007**
Chudnovsky, Gregory V. *see* **Chudnovsky, David V., 2005b:94007**
Chung, Henry S. H. *see* **Lau, W. H. et al.**
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— (*with* Hermoso Carazo, Aurora; Jim'enez-L'opez, Jos'e Domingo; Linares Pérez, Josefa) Filtering of signals transmitted in multichannel from Chandrasekhar and Riccati recursions.
Nakayama, Kenji *see* **Wang, Youhua et al.**, **2005d:94042**
Nekrasov, S. A. Probability-theoretic and statistical models for computing the characteristics of dictionary structures. (Russian. Russian summary) **2005d:94038**
Neri, Alessandro (*with* Jacovitti, Giovanni) Maximum likelihood localization of 2-D patterns in the Gauss-Laguerre transform domain: theoretic framework and preliminary results. (English summary) **2005a:94022**
Ng, Shek-wai (*with* Lee, Yim-Shu) A unified small-signal simulation algorithm for SMPS. (English summary)
Ng, William (*with* Reilly, James P.; Kirubarajan, T.; Larocque, Jean-René) Wideband array signal processing using MCMC methods. (English summary)
Nicoli, Monica (*with* Spagnolini, Umberto) Reduced-rank channel estimation for time-slotted mobile communication systems. (English summary)
Nielsen, Morten[2] *see* **Gribonval, Rémi**, **2005a:94016**
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Plastino, Angel Luis (*with* Martin, María Teresa; Rosso, O. A.) Generalized information measures and the analysis of brain electrical signals. (English summary) (*see* **2005g:82001**)
Pollak, Ilya (*with* Willsky, Alan S.; Huang, Yan[3]) Nonlinear evolution equations as fast and exact solvers of estimation problems. (English summary)
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Rafajłowicz, Ewaryst Testing (non-)existence of input-output relationships by estimating fractal dimensions. (English summary)
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Rensaa, Ragnhild Johanne Adjacent frequencies or small amplitudes in frequency analysis. (English summary)
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— (*with* Ahmad, M. Omair; Swamy, M. N. S.) Characterization of nonuniform perfect-reconstruction filterbanks using unit-step signal. (English summary)
— (*with* Ahmad, M. Omair; Swamy, M. N. S.) Z-transform of quantized ramp signal. (English summary) **2005h:94019**
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Sardellitti, Stefania *see* **Buzzi, Stefano et al.**, **2005i:94004**
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Takeda, Mitsuo (*with* Kishigami, Takaaki) Complex neural network model with analogy to self-oscillation generated in an optical phase-conjugate resonator. (*see* **2005b:00018**)
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Trautmann, Lutz (*with* Rabenstein, Rudolf) ★Digital sound synthesis by physical modeling using the functional transformation method. **2005b:94010**
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Trifonov, P. V. (*with* Fedorenko, S. V.) A method for the fast computation of the Fourier transform over a finite field. (Russian. Russian summary) **2005g:94023**
Tropp, Joel A. Greed is good: algorithmic results for sparse approximation. (English summary) **2005e:94036**
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Waldron, Shayne Generalized Welch bound equality sequences are tight frames. (English summary) **2005a:94024**
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Wang, Feng-qiong *see* **Wang, Li Qing[1] et al., 2005e:94038**
Wang, Haixiang (*with* Johnson, Bruce R.) The discrete wavelet transform for a symmetric-antisymmetric multiwavelet family on the interval. (English summary)
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Wang, Jiun-Lung *see* **Chen, Che-Hong et al., 2005f:94018**
Wang, Li Qing[1] (*with* Xu, Qiong; Wang, Feng-qiong) A remark about the Shannon's sampling theorem. (English and Chinese summaries) **2005e:94038**
Wang, Qiao *see* **Liu, Qiangsheng et al.**
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Xu, Wen[2] (*with* Baggeroer, Arthur B.; Richmond, Christ D.) Bayesian bounds for matched-field parameter estimation. (English summary) **2005g:94025**
Xu, Zhengyuan (*with* Liu, Ping[2]; Zoltowski, Michael D.) Diversity-assisted channel estimation and multiuser detection for downlink CDMA with long spreading codes. (English summary) **2005a:94025**
Yang, Jar-Ferr *see* **Chen, Che-Hong et al., 2005f:94018**
Yang, Li Hua[1] *see* **Huang, Da Ren et al., 2005a:94018**
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Zarzycki, Jan Multidimensional nonlinear Schur parametrization of nonGaussian stochastic signals. I. Statement of the problem. (English summary) **2005e:94040a**
— Multidimensional nonlinear Schur parametrization of nonGaussian stochastic signals. II. Generalized Schur algorithm. (English summary) **2005e:94040b**
— Multidimensional nonlinear Schur parametrization of nonGaussian stochastic signals. III. Low-complexity staircase solution. (English summary) **2005e:94040c**
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Zhang, Jing Yuan[2] *see* **Du, Hai et al., (2005i:42002)**
Zhang, Lei (*with* Bao, Paul; Wu, Xiaolin[1]) Wavelet estimation of fractional Brownian motion embedded in a noisy environment. (English summary)
— (*with* Wu, Xiaolin[1]; Pan, Quan; Zhang, Hong-Cai) Multiresolution modeling and estimation of multisensor data. (English summary) **2005f:94031**
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Zhou, Bin[5] *see* **Lau, W. H. et al.**
Zhou, Jie[2] *see* **Zhu, Yunmin et al., 2005m:94011**
Zhu, Yunmin (*with* Song, Enbin; Zhou, Jie[2]; You, Zhi Sheng) Optimal dimensionality reduction of sensor data in multisensor estimation fusion. (English summary) **2005m:94011**
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Items listed otherwise than by author

Modern signal processing ★Modern signal processing. **2005b:94011**

Items with secondary classifications in 94A12

de Abreu, Giuseppe Thadeu Freitas Closed-form correlation functions of generalized Hermite wavelets. (English summary) **2005m:42057**
Abutaleb, Ahmed S. Instantaneous frequency estimation when the amplitude is a stochastic process using stochastic calculus and bootstrapping. (English summary) **2005m:62152**
Ahmad, M. Omair *see* **Samadi, Saed et al., 2005c:41016** *and* **Bouguezel, Saad et al., 2005h:65267**
Akbarpour, Behzad (*with* Tahar, Sofiène) Error analysis of digital filters using theorem proving. (English summary) (*see* **2005m:68012**)
Alajaji, Fady (*with* Chen, Po-Ning; Rached, Ziad) Csiszár's cutoff rates for the general hypothesis testing problem. (English summary) **2005e:62009**
Ali, Syed Twareque (*with* Führ, Hartmut; Krasowska, Anna E.) Plancherel inversion as unified approach to wavelet transforms and Wigner functions. (English summary) **2005a:43006**
Allay, Najib *see* **Tarczynski, Andrzej, 2005g:94039**
Allen, Jeffery C. (*with* Healy, Dennis M., Jr.) Hyperbolic geometry, Nehari's theorem, electric circuits, and analog signal processing. (English summary) **2005i:94025**
(Álvarez Sánchez, Jóse Ramón) *see* **Artificial neural nets problem solving methods, 2005a:68006**
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Anand, Christopher Kumar (*with* Terlaky, Tamás; Wang, Bixiang) Rapid, embeddable design method for spiral magnetic resonance image reconstruction resampling kernels. (English summary) **2005g:90171**
Arciero, Michael Limits for Szegő polynomials in frequency analysis. (English summary) **2005k:42064**
Arenas-García, Jerónimo *see* **Sánchez-Fernández, Matilde et al., 2005c:62102**
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Bacchelli, Barbara (*with* Bozzini, Mira; Rabut, Christophe; Varas S., María Leonor) Decomposition and reconstruction of multidimensional signals using polyharmonic pre-wavelets. (English summary) **2005m:42058**
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Bahsoun, Wael *see* **Thirulogasanthar, K., 2005f:42098**
Bardaro, Carlo (*with* Vinti, Gianluca) An abstract approach to sampling-type operators inspired by the work of P. L. Butzer. I. Linear operators. (English summary) **2005f:41048**
— (*with* Vinti, Gianluca) An abstract approach to sampling-type operators inspired by the work of P. L. Butzer. II. Nonlinear operators. (English summary) **2005f:41097**
Barnabei, Marilena (*with* Guerrini, Carla; Bacchelli Montefusco, Laura) An algebraic framework for biorthogonal M-band filters. (English summary) **2005e:42089**
Barry, D. A. (*with* Li, Lei[1]; Jeng, D.-S.) Comments on: "Numerical evaluation of the Lambert W function and application to generation of generalized Gaussian noise with exponent 1/2" [IEEE Trans. Signal Process. **50** (2002), no. 9, 2160–2165; MR1959340 (2004c:33043)] by F. Chapeau-Blondeau and A. Monir. (English summary) **2005b:33024**
(Benedetto, John J.) *see* **Sampling, wavelets, and tomography, 2005h:94001**
Bertero, M. (*with* Boccacci, P.; Robberto, M.) Inversion of second-difference operators with application to infrared astronomy. (English summary) **2005d:39096**
Besbes, Hichem (*with* Jaïdane, Mériem; Ezzine, Jelel) Performance analysis of adaptive Volterra filters in the finite-alphabet input case. (English summary)
Bitmead, Robert R. *see* **Ko, Sangho, 2005h:93033**

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Bouder, C. (*with* Azou, S.; Burel, Gilles) Performance analysis of a spreading sequence estimator for spread spectrum transmissions. (English summary) **2005h:94038**
Bougas, Paul (*with* Kalivas, Paraskevas; Tsirikos, Andreas; Pekmestzi, Kiamal Z.) Pipelined array-based FIR filter folding. (English summary)
Bouguezel, Saad (*with* Ahmad, M. Omair; Swamy, M. N. S.) A new radix-2/8 FFT algorithm for length-$q \times 2^m$ DFTs. (English summary) **2005h:65267**
Boukerroui, Djamal (*with* Noble, J. Alison; Brady, John Michael) On the choice of band-pass quadrature filters. (English summary)
Bozzini, Mira *see* **Bacchelli, Barbara et al., 2005m:42058**
Bracciali, C. F. (*with* Li, Xin[3]; Sri Ranga, A.) Real orthogonal polynomials in frequency analysis. (English summary) **2005e:94014**
Bracewell, Ronald ★ Fourier analysis and imaging. **2005g:94006**
Brady, John Michael *see* **Boukerroui, Djamal et al.**
Bregović, Robert *see* **Lu, Wu-Sheng et al., 2005h:93165**
Breitzman, Anthony F. *see* **Johnson, Jeremy R., 2005e:65220**
Bresler, Yoram *see* **Venkataramani, Raman, 2005e:94058**
Brown, J. L., Jr. Estimation of energy aliasing error for nonbandlimited signals. (English summary) **2005b:94020**
Buchleitner, Andreas *see* **Shatokhin, Vyacheslav et al.**
Burel, Gilles *see* **Bouder, C. et al., 2005h:94038**
Burkhardt, Stefan (*with* Kärkkäinen, Juha) One-gapped q-gram filters for Levenshtein distance. (English summary) (*see* **2005a:68009**)
Burnashev, M. V. On optimal linear detectors, asymptotic efficiency, and some CDMA problems. (Russian. Russian summary) **2005g:94026**
Burrus, C. Sidney *see* **Fernandes, Felix C. A. et al., 2005k:42098**
(Butzer, Paul L.) *see* **Bardaro, Carlo, 2005f:41048**
Cabrelli, Carlos A. (*with* Heil, Christopher; Molter, Ursula M.) Self-similarity and multiwavelets in higher dimensions. (English summary) **2005d:42037**
Cachier, Pascal (*with* Ayache, Nicholas) Isotropic energies, filters and splines for vector field regularization. (English summary) **2005a:68218**
Callegari, Sergio (*with* Rovatti, Riccardo; Setti, Gianluca) Embeddable ADC-based true random number generator for cryptographic applications exploiting nonlinear signal processing and chaos. (English summary) **2005h:94042**
Cao, Jihua (*with* Wang, Zhaohua; Li, Fengting) DC coefficients recovery-based error concealment technique for MPEG-2 video streams. (English summary) (*see* **2005i:42002**)
Carin, Lawrence *see* **Dong, Yanting, 2005g:94056**
Casazza, Peter G. An introduction to irregular Weyl-Heisenberg frames. (English summary) (*see* **2005h:94001**)
Caulfield, H. John (*with* Karavolos, Angelo; Ludman, Jacques E.) Improving optical Fourier pattern recognition by accommodating the missing information. (English summary) **2005a:68173**
Cesa-Bianchi, Nicolò (*with* Conconi, Alex; Gentile, Claudio) On the generalization ability of on-line learning algorithms. (English summary) **2005g:68140**
Chandramouli, R. *see* **Trivedi, Shalin**
Chaux, Caroline *see* **Duval, Laurent, 2005h:42069**
Chaves, Ricardo *see* **Sousa, Leonel, 2005m:68027**
Chen, Che-Hong (*with* Liu, Bin-Da; Yang, Jar-Ferr) Direct recursive structures for computing radix-r two-dimensional DCT/IDCT/DST/IDST. (English summary) **2005h:65269**
Chen, Fa-Lai *see* **Mustafa, Ghulam et al., 2005e:42124**
Chen, Po-Ning *see* **Alajaji, Fady et al., 2005e:62009**
Chen, Qiuhui (*with* Micchelli, Charles A.; Peng, Silong; Xu, Yuesheng) Multivariate filter banks having matrix factorizations. (English summary) **2005a:42025**
— (*with* Micchelli, Charles A.; Xu, Yuesheng) Biorthogonal multivariate filter banks from centrally symmetric matrices. (English summary) **2005m:42061**
Cheney, Margaret (*with* Borden, Brett) Microlocal structure of inverse synthetic aperture radar data. (English summary) **2005b:78019**
Cheng, Chao (*with* Parhi, Keshab K.) Hardware efficient fast parallel FIR filter structures based on iterated short convolution. (English summary) **2005f:93165**
Cheng, Rong (*with* Li, Wan She) Increasing approximation order of finite element multi-scaling functions by two-scale similarity transform. (Chinese. English and Chinese summaries
Cheng, Zheng Xing *see* **Yang, Jian Wei et al., 2005f:42099**
Chrissikopoulos, Vassilis *see* **Poulos, Marios et al.**
Christen, M. (*with* Kern, A.; Nikitchenko, A.; Steeb, Willi-Hans; Stoop, R.) Fast spike pattern detection using the correlation integral. (English summary) **2005j:92010**
Chui, Charles K. *see* **Bittner, Kai, 2005d:42032**
Colonna, Flavia (*with* Easley, Glenn R.) The multichannel deconvolution problem: a discrete analysis. (English summary) **2005g:42017**
Conconi, Alex *see* **Cesa-Bianchi, Nicolò et al., 2005g:68140**
Cordero, Elena (*with* Gröchenig, Karlheinz) Localization of frames. II. (English summary) **2005f:42066**
— Wavelet MRA on the interval with dilation factor M. (English summary) **2005m:42055**
Cormode, Graham (*with* Muthukrishnan, S. Muthu) Estimating dominance norms of multiple data streams. (English summary) (*see* **2005c:68003**)
Corral, Celestino A. *see* **Lindquist, Claude S.**
Cui, Ningzhou *see* **Hong, Lang et al.**
Dai, Xing De (*with* Diao, Yuanan; Gu, Qing[1]) Frame wavelets with frame set support in the frequency domain. (English summary) **2005e:42110**
Deepa, G. V. (*with* Radha, Ramakrishnan) Wavelets in a finite dimensional vector space and decomposition of a signal. (English summary)
De Lathauwer, Lieven (*with* Vandewalle, Joos) Dimensionality reduction in higher-order signal processing and rank-$(R_1, R_2, \ldots, R_N)$ reduction in multilinear algebra. (English summary) **2005g:15049**
Dëmin, N. S. (*with* Safronova, Irina; Rozhkova, Svetlana) About structure of Shannon information amount for joint filtering and extrapolation problem by continuous-discrete memory observations. (English and Lithuanian summaries) **2005g:94033**
Deng, Guang Iterative learning algorithms for linear Gaussian observation models. (English summary) **2005d:68119**
De Pierro, Alvaro R. *see* **Wei, Mu Sheng et al., 2005j:42004**
Devassia, V. P. (*with* Mini, M. G.; Thomas, Tessamma) Feature enhancement using PSWT technique: a study on instrumental music. (English summary) **2005e:42113**
Diao, Yuanan *see* **Dai, Xing De et al., 2005e:42110**
Ding, Jian-Jiun *see* **Pei, Soo-Chang, 2005e:42101**
Diop, Sette *see* **Ibrir, Salim, 2005a:93152**
Dong, Yanting (*with* Carin, Lawrence) Quantization of multiaspect scattering data: target classification and pose estimation. (English summary) **2005g:94056**
Donoho, David L. (*with* Levi, Ofer) Fast X-ray and beamlet transforms for three-dimensional data. (English summary) **2005g:65191**
— (*with* Raimondo, Marc E.) Translation invariant deconvolution in a periodic setting. (English summary) **2005h:42068**
Dumitrescu, Sorina *see* **Wu, Xiaolin[1] et al., 2005f:94074**
Dunne, Bruce E. (*with* Williamson, Geoffrey A.) Analysis of gradient algorithms for TLS-based adaptive IIR filters. (English summary) **2005g:93112**
Dutkay, Dorin Ervin Positive definite maps, representations and frames. (English summary) **2005e:42115**
Duval, Laurent (*with* Chaux, Caroline) Lapped transforms and hidden Markov models for seismic data filtering. (English summary) **2005h:42069**
Dyn, Nira (*with* Levin, David; Luzzatto, Ariel) Refining oscillatory signals by non-stationary subdivision schemes. (English summary) (*see* **2005a:41001**)
Easley, Glenn R. *see* **Colonna, Flavia, 2005g:42017**
Egner, Sebastian (*with* Püschel, Markus) Symmetry-based matrix factorization. (English summary) **2005e:65029**
ElAli, Taan S. ★ Discrete systems and digital signal processing with MATLAB®. **2005d:93001**
Erdogmus, Deniz (*with* Hild, Kenneth E.; Principe, Jose C.; Lázaro, Marcelino; Santamaría, Ignacio) Adaptive blind deconvolution of linear channels using Renyi's entropy with Parzen window estimation. (English summary) **2005a:94005**
— *see also* **Rao, Yadunandana N. et al., 2005i:93084**
Ermakov, M. S. Asymptotically minimax and Bayes estimation in a deconvolution problem. (English summary) **2005a:62089**
Etter, Delores M. *see* **Griesbach, Jacob D. et al.**
Evangelou, Agelos *see* **Poulos, Marios et al.**
Ezzine, Jelel *see* **Besbes, Hichem et al.**
Fernandes, Felix C. A. (*with* van Spaendonck, Rutger L. C.; Burrus, C. Sidney) Multidimensional, mapping-based complex wavelet transforms. (English summary) **2005k:42098**
Fettweis, Alfred *see* **Bose, N. K., 2005h:65070**
Franceschetti, Massimo *see* **Sinopoli, Bruno et al., 2005b:93169**
Frazho, A. E. (*with* Yagci, B.; Sumali, H.) On sinusoid estimation on nonstationary noise. (English summary) **2005g:93108**
Fu, Dengwei (*with* Willson, Alan N., Jr.) Trigonometric polynomial interpolation for timing recovery. (English summary)
Führ, Hartmut *see* **Ali, Syed Twareque et al., 2005a:43006**
Gabardo, Jean-Pierre (*with* Han, De Guang) Balian-Low phenomenon for subspace Gabor frames. (English summary) **2005e:42093**
Galindo Soto, Félix Some remarks on: "On the windowed Fourier transform and wavelet transform of almost periodic functions" [Appl. Comput. Harmon. Anal. **10** (2001), no. 1, 45–60; MR1808199 (2002c:42056)] by J. R. Partington and B. Ünalmış. (English summary) **2005a:42027**
Gao, Jing[1] (*with* Liu, Hua Ning) Generalized Möbius transform and arithmetic Fourier transform. (Chinese. English and Chinese summaries) **2005m:65319**
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Georgiacodis, Fotis *see* **Poulos, Marios et al.**
Germani, Alfredo (*with* Manes, Costanzo; Palumbo, Pasquale) Polynomial filtering for stochastic non-Gaussian descriptor systems. (English summary) **2005e:93154**
Gogoshin, G. *see* **Papadakis, Manos et al., 2005g:42084**
Griesbach, Jacob D. (*with* Lightner, Michael R.; Etter, Delores M.) Constituent subband allocation for system modeling nonuniform subband adaptive filters. (English summary)
— (*with* Lightner, Michael R.; Etter, Delores M.) Mean square error analysis of nonuniform subband adaptive filters for system modeling. (English summary)
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— *see also* **Cordero, Elena, 2005f:42066**
Gu, Qing[1] *see* **Dai, Xing De et al., 2005e:42110**
Guerrini, Carla *see* **Barnabei, Marilena et al., 2005e:42089**
Gunther, Jacob H. (*with* López-Valcarce, Roberto) Blind input, initial state, and system identification of SIMO Laguerre systems. (English summary) **2005k:93056**
Guo, Xiu Lan *see* **Yang, Jian Wei et al., 2005f:42099**
Hadwin, Don (*with* Harrison, K. J.; Ward, Jo) Lebesgue constants for Hadamard matrices. (English summary) **2005h:15080**
Hager, William W. *see* **Jiang, Yi[1] et al., 2005h:15045**
Hall, Peter G. (*with* Yin, Ji Ying) Nonuniform sequential sampling for signal analysis. (English summary)
Han, Bin[2] (*with* Mo, Qun) Splitting a matrix of Laurent polynomials with symmetry and its application to symmetric framelet filter banks. (English summary) **2005m:42064**
Han, De Guang *see* **Gabardo, Jean-Pierre, 2005e:42093**
Han, Qing-Long *see* **Yue, Dong, 2005e:93052**
Handlery, Marc (*with* Johannesson, Rolf; Zyablov, Viktor V.) An encoder and distance

properties of woven convolutional codes with a tail-biting component code. (Russian. Russian summary) **2005g:94105**

Hao, Pengwei *see* **She, Yiyuan, 2005k:15028**

Harrison, K. J. *see* **Hadwin, Don et al., 2005h:15080**

Hasler, Martin *see* **Schimming, Thomas et al., 2005f:37177**

He, Shibiao (*with* Yang, Shizhong; Wu, Lehua) A new method to choose the thresholds in wavelet denoising. (English summary) (*see* **2005i:42002**)

He, Zhao-Shui *see* **Zhang, Jin-Long et al.**

Healy, Dennis M., Jr. *see* **Allen, Jeffery C., 2005i:94025**

Heijmans, Henk J. A. M. (*with* Pesquet-Popescu, Béatrice; Piella, Gemma) Building nonredundant adaptive wavelets by update lifting. (English summary) **2005m:42066**

— *see also* **Zhan, Yinwei, 2005k:42113**

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Hild, Kenneth E. *see* **Erdogmus, Deniz et al., 2005a:94005**

Hoffman, David K. *see* **Papadakis, Manos et al., 2005g:42084**

Hogan, Jeffrey A. (*with* Lakey, Joseph D.) ★ Time-frequency and time-scale methods. **2005k:42102**

Holschneider, Matthias *see* **Nazaret, Bruno, 2005j:35231**

Hong, Lang (*with* Cui, Ningzhou; Pronobis, Mark T.; Scott, Stephen) Simultaneous ground moving target tracking and identification using wavelets features from HRR data. (English summary)

Hu, Zhong (*with* Wan, Hong Hui) A novel generic fast Fourier transform pruning technique and complexity analysis. (English summary) **2005h:65272**

Huang, Zhangjin *see* **Mustafa, Ghulam et al., 2005e:42124**

Ibrir, Salim (*with* Diop, Sette) A numerical procedure for filtering and efficient high-order signal differentiation. (English summary) **2005a:93152**

Jafarizadeh, M. A. (*with* Mirzaee, M.; Rezaee, M.) Connection between quantum tomography based on homogeneous space and projective representation and wavelet transform in Banach spaces. (English summary) **2005h:43012**

Jaffard, Stéphane Beyond Besov spaces. I. Distributions of wavelet coefficients. (English summary) **2005h:28020**

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Jeng, D.-S. *see* **Barry, D. A. et al., 2005b:33024**

Ji, Chuanyi *see* **Ma, Sheng, 2005i:60191**

Jiang, Yi[1] (*with* Hager, William W.; Li, Jian[4]) The geometric mean decomposition. (English summary) **2005h:15045**

Jin, Guofan *see* **Yang, Xingpeng et al., 2005h:65274**

Johannesson, Rolf *see* **Handlery, Marc et al., 2005g:94105**

Johnson, Jeremy R. (*with* Breitzman, Anthony F.) Automatic derivation and implementation of fast convolution algorithms. (English summary) **2005e:65220**

Jordan, Michael I. *see* **Sinopoli, Bruno et al., 2005h:93169**

Jørgensen, Palle E. T. Closed subspaces which are attractors for representations of the Cuntz algebras. (English summary) **2005g:46105**

Jouini, Abdellatif Dunkl wavelets and applications to inversion of the Dunkl intertwining operator and its dual. (English summary) **2005e:42121**

Kahng, Byungik The invariant fractals of symplectic piecewise affine elliptic dynamics. (English summary) **2005j:37086**

Kaiblinger, Norbert Approximation of the Fourier transform and the dual Gabor window. (English summary) **2005m:42009**

Kaiser, Gerald Physical wavelets and their sources: real physics in complex spacetime. (English summary) **2005a:81098**

Kak, Subhash *see* **Rajagopal, Pritam, (2005b:00018)**

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Karavolos, Angelo *see* **Caulfield, H. John et al., 2005a:68173**

Kärkkäinen, Juha *see* **Burkhardt, Stefan, (2005a:68009)**

Keinert, Fritz ★ Wavelets and multiwavelets. **2005b:42001**

Kern, A. *see* **Christen, M. et al., 2005j:92010**

Khramov, A. E. *see* **Koronovskiĭ, A. A., 2005i:42044**

Ko, Sangho (*with* Bitmead, Robert R.) Covariance calculation for floating-point state-space realizations. (English summary) **2005h:93033**

Koronovskiĭ, A. A. (*with* Khramov, A. E.) ★ Непрерывный вейвлетный анализ в приложениях к задачам нелинейной динамики. (Russian. Russian summary) [Continuous wavelet analysis in applications to problems of nonlinear dynamics] **2005i:42044**

Kouri, Donald J. *see* **Papadakis, Manos et al., 2005g:42084**

Krasowska, Anna E. *see* **Ali, Syed Twareque et al., 2005a:43006**

Kundu, Debasis *see* **Nandi, Swagata[2], 2005h:62090**

Lacaze, Bernard (*with* Mailhes, Corinne) Random process reconstruction from multiple noisy source observations. (English summary)

Lakey, Joseph D. *see* **Hogan, Jeffrey A., 2005k:42102**

Lawson, Stuart *see* **Tseng, Chien Hsun**

Lawton, Wayne M. Hermite interpolation in loop groups and conjugate quadrature filter approximation. (English summary) **2005i:41025**

Lazar, Aurel A. (*with* Tóth, László T.) Perfect recovery and sensitivity analysis of time encoded bandlimited signals. (English summary)

Lázaro, Marcelino *see* **Erdogmus, Deniz et al., 2005a:94005**

Levi, Ofer *see* **Donoho, David L., 2005g:65191**

Levin, David *see* **Dyn, Nira et al., (2005a:41001)**

Li, Fengting *see* **Cao, Jihua et al., (2005i:42002)**

Li, Jian[4] *see* **Jiang, Yi[1] et al., 2005h:15045**

Li, Lei[1] *see* **Barry, D. A. et al., 2005b:33024**

Li, Shidong (*with* Ogawa, Hidemitsu) Pseudoframes for subspaces with applications. (English summary) **2005e:42098**

— Irregular sampling in a generic subspace. (English summary) **2005g:94038**

Li, Wan She *see* **Cheng, Rong**

Li, Xin[3] *see* **Bracciali, C. F. et al., 2005e:94014**

Liandrat, Jacques *see* **Amat, Sergio, 2005k:41058**

Lightner, Michael R. *see* **Griesbach, Jacob D. et al.**

Lin, Wei *see* **Wen, Xian Bin et al., 2005m:62069**

Lindquist, Claude S. (*with* Corral, Celestino A.) A new type of transitional filter based on summation of polynomials. (English summary)

Liu, Bin-Da *see* **Chen, Che-Hong et al., 2005h:65269**

Liu, Hua Ning *see* **Gao, Jing[1], 2005m:65319**

Liu, K. J. Ray *see* **Su, Weifeng et al.**

Logeswaran, Rajasvaran Fast two-stage Lempel-Ziv lossless numeric telemetry data compression using a neural network predictor. (English summary)

López-Valcarce, Roberto *see* **Gunther, Jacob H., 2005k:93056**

Lu, Wu-Sheng (*with* Saramäki, Tapio; Bregović, Robert) Design of practically perfect-reconstruction cosine-modulated filter banks: a second-order cone programming approach. (English summary) **2005h:93165**

Ludman, Jacques E. *see* **Caulfield, H. John et al., 2005a:68173**

Luzzatto, Ariel *see* **Dyn, Nira et al., (2005a:41001)**

Ma, Jian-Fen (*with* Wang, H. Q.) The speech analysis and segmentation by discrete wavelet transform (DWT). (English summary) (*see* **2005i:42002**)

Ma, Jian Wei An exploration of multiresolution symplectic scheme for wave propagation using second-generation wavelets. (English summary) **2005k:65282**

Ma, Sheng (*with* Ji, Chuanyi) Modeling network traffic in wavelet domain. (English summary) **2005i:60191**

Madych, W. R. Band limited functions and extensions of classical interpolation series. (English summary) **2005e:94057**

Mailhes, Corinne *see* **Lacaze, Bernard**

Manes, Costanzo *see* **Germani, Alfredo et al., 2005e:93154**

Manton, Jonathan H. (*with* Neumann, Walter D.; Norbury, Paul T.) On the algebraic identifiability of finite impulse response channels driven by linearly precoded signals. (English summary) **2005g:93037**

Maravić, Irena (*with* Vetterli, Martin) Exact sampling results for some classes of parametric nonbandlimited 2-D signals. (English summary) **2005a:94037**

Maslen, David Keith (*with* Rockmore, Daniel N.) The Cooley-Tukey FFT and group theory. (English summary) **2005e:20009**

Matei, Basarab Smoothness characterization and stability in nonlinear multiscale framework: theoretical results. (English summary) **2005m:42068**

Meikle, Hamish D. ★ A new twist to Fourier transforms. **2005m:42001**

Meneguette, Messias, Jr. (*with* Messias, Marcelo) Theoretical aspects of the cosine transform. (English and Portuguese summaries)

Messias, Marcelo *see* **Meneguette, Messias, Jr.**

Micchelli, Charles A. *see* **Chen, Qiuhui et al., 2005a:42025** *and* **2005m:42061**

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Mini, M. G. *see* **Devassia, V. P. et al., 2005e:42113**

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Mirzaee, M. *see* **Jafarizadeh, M. A. et al., 2005h:43012**

Mo, Qun *see* **Han, Bin[2], 2005m:42064**

Molter, Ursula M. *see* **Cabrelli, Carlos A. et al., 2005d:42037**

Murakami, Hideo Prime-length real-valued polynomial residue division algorithms. (English summary) **2005g:65198**

Mustafa, Ghulam (*with* Chen, Fa-Lai; Huang, Zhangjin) Ternary wavelets and their applications to signal compression. (English summary) **2005e:42124**

Muthukrishnan, S. Muthu *see* **Cormode, Graham, (2005c:68003)**

Nakamura, Makato[3] *see* **Torii, Hideyuki et al., 2005c:94041**

Nandi, Swagata[2] (*with* Kundu, Debasis) Asymptotic properties of the least squares estimators of the parameters of the chirp signals. (English summary) **2005h:62090**

Nazaret, Bruno (*with* Holschneider, Matthias) An interpolation family between Gabor and wavelet transformations: application to differential calculus and construction of anisotropic Banach spaces. (English summary) **2005j:35231**

Neumann, Walter D. *see* **Manton, Jonathan H. et al., 2005g:93037**

Ng, Esmond G. *see* **Yang, Chao[2] et al., 2005h:65058**

Nikitchenko, A. *see* **Christen, M. et al., 2005j:92010**

Nikolova, Mila A variational approach to remove outliers and impulse noise. (English summary) **2005b:94006**

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Norbury, Paul T. *see* **Manton, Jonathan H. et al., 2005g:93037**

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Okoudjou, Kasso A. *see* **Gröchenig, Karlheinz et al., 2005e:42118**

Palumbo, Pasquale *see* **Germani, Alfredo et al., 2005e:93154**

Pang, Jong-Shi (*with* Yu, Thomas P.-Y.) Continuous M-estimators and their interpolation by polynomials. (English summary) **2005k:65020**

Papadakis, Manos (*with* Gogoshin, G.; Kakdiaris, I. A.; Kouri, Donald J.; Hoffman, David K.) Nonseparable radial frame multiresolution analysis in multidimensions. (English summary) **2005g:42084**

— Generalized frame multiresolution analysis of abstract Hilbert spaces. (English summary) (*see* **2005h:94001**)

Parhi, Keshab K. *see* **Cheng, Chao, 2005f:93165**

(Partington, Jonathan R.) *see* **Galindo Soto, Félix, 2005a:42027**

Pei, Soo-Chang (*with* Ding, Jian-Jiun) Generalized eigenvectors and fractionalization of offset DFTs and DCTs. (English summary) **2005e:42101**

Pekmestzi, Kiamal Z. *see* **Bougas, Paul et al.**

Pemba, Jean-Paul Projection-invariants, Gram-Schmidt operators, and wavelets. (English summary) **2005e:42126**

Penczek, Pawel A. *see* **Yang, Chao[2] et al., 2005h:65058**

Peng, Li Zhong (*with* Wang, Hai Hui) Construction for a class of smooth wavelet tight frames. (English summary) **2005a:42030**

Peng, Silong *see* **Chen, Qiuhui et al., 2005a:42025**

Pérez-Cruz, Fernando *see* **Sánchez-Fernández, Matilde et al., 2005c:62102**

Pesquet-Popescu, Béatrice *see* **Heijmans, Henk J. A. M. et al., 2005m:42066**

Piella, Gemma *see* **Heijmans, Henk J. A. M. et al., 2005m:42066**

Poolla, Kameshwar *see* **Sinopoli, Bruno et al., 2005h:93169**

Poulos, Marios (*with* Rangoussi, Maria; Chrissikopoulos, Vassilis; Evangelou, Agelos; Georgiacodis, Fotis) Comparative analysis of the computational geometry and neural

network classification methods for person identification purposes via the EEG. I. (English summary)

de Prado-Cumplido, Mario *see* **Sánchez-Fernández, Matilde et al., 2005c:62102**

Prasad, Mohit K. Stack filter design using selection probabilities. (English summary)

Principe, Jose C. *see* **Erdogmus, Deniz et al., 2005a:94005** *and* **Rao, Yadunandana N. et al., 2005i:93084**

Pronobis, Mark T. *see* **Hong, Lang et al.**

Püschel, Markus *see* **Egner, Sebastian, 2005e:65029**

Rabut, Christophe *see* **Bacchelli, Barbara et al., 2005m:42058**

Rached, Ziad *see* **Alajaji, Fady et al., 2005c:62009**

Radha, Ramakrishnan *see* **Deepa, G. V.**

Raimondo, Marc E. *see* **Donoho, David L., 2005h:42068**

Rajagopal, Pritam (*with* Kak, Subhash) Instantaneously trained neural networks with complex inputs. (*see* **2005b:00018**)

Ramlau, Ronny (*with* Teschke, Gerd) Regularization of Sobolev embedding operators and applications. I. Fourier and wavelet based methods. (English summary) **2005e:65074**

— (*with* Teschke, Gerd) Regularization of Sobolev embedding operators and applications. II. Data driven regularization and applications. (English summary) **2005k:65103**

Ran, Qiwen (*with* Yeung, Daniel S.; Tsang, Eric C. C.; Wang, Qi[5]) General multifractional Fourier transform method based on the generalized permutation matrix group. (English summary) **2005h:65273**

Rangoussi, Maria *see* **Poulos, Marios et al.**

Rao, Yadunandana N. (*with* Erdogmus, Deniz; Principe, Jose C.) Error whitening criterion for adaptive filtering: theory and algorithms. (English summary) **2005i:93084**

Razdan, Ashok Wavelet correlation coefficient of 'strongly correlated' time series. (English summary) **2005h:62257**

Reza, Ali Moghaddamjoo (*with* Zhu, Lian) Analysis of error in the fixed-point implementation of two-dimensional discrete wavelet transforms. (English summary) **2005i:42047**

Rezaee, M. *see* **Jafarizadeh, M. A. et al., 2005h:43012**

Robberto, M. *see* **Bertero, M. et al., 2005d:39096**

Rockmore, Daniel N. *see* **Maslen, David Keith, 2005e:20009**

Rovatti, Riccardo *see* **Callegari, Sergio et al., 2005h:94042**

Rozhkova, Svetlana *see* **Dëmin, N. S. et al., 2005g:94033**

Safar, Zoltan *see* **Su, Weifeng et al.**

Safronova, Irina *see* **Dëmin, N. S. et al., 2005g:94033**

Samadi, Saed (*with* Ahmad, M. Omair; Swamy, M. N. S.) Characterization of B-spline digital filters. (English summary) **2005c:41016**

Sánchez-Fernández, Matilde (*with* de Prado-Cumplido, Mario; Arenas-García, Jerónimo; Pérez-Cruz, Fernando) SVM multiregression for nonlinear channel estimation in multiple-input multiple-output systems. (English summary) **2005c:62102**

Santamaría, Ignacio *see* **Erdogmus, Deniz et al., 2005a:94005**

Saramäki, Tapio *see* **Lu, Wu-Sheng et al., 2005h:93165**

Sastry, S. Shankar *see* **Sinopoli, Bruno et al., 2005h:93169**

Schenato, Luca *see* **Sinopoli, Bruno et al., 2005h:93169**

Schimming, Thomas (*with* Bizzarri, Federico; Storace, Marco; Hasler, Martin) Classification of chaotic sequences with open-loop estimator—optimal design for noisy environments. (English summary) **2005f:37177**

Scott, Clayton (*with* Nowak, Robert D.) TEMPLAR: a wavelet-based framework for pattern learning and analysis. (English summary)

Scott, Stephen *see* **Hong, Lang et al.**

Setti, Gianluca *see* **Callegari, Sergio et al., 2005h:94042**

Shakhmurov, Veli B. Fractional Weyl-Heisenberg frames and applications. (English summary) **2005f:42071**

Shatokhin, Vyacheslav (*with* Wellens, Thomas; Buchleitner, Andreas) The noise makes the signal: what a small fry should know about stochastic resonance. (English summary)

She, Yiyuan (*with* Hao, Pengwei) Block TERM factorization of block matrices. (English summary) **2005k:15028**

Shen, Xiaoping *see* **Walter, Gilbert G., 2005c:42041**

Sinopoli, Bruno (*with* Schenato, Luca; Franceschetti, Massimo; Poolla, Kameshwar; Jordan, Michael I.; Sastry, S. Shankar) Kalman filtering with intermittent observations. (English summary) **2005h:93169**

Sousa, Leonel (*with* Chaves, Ricardo) A universal architecture for designing efficient modulo $2^n + 1$ multipliers. (English summary) **2005m:68027**

van Spaendonck, Rutger L. C. *see* **Fernandes, Felix C. A. et al., 2005k:42098**

Sri Ranga, A. *see* **Bracciali, C. F. et al., 2005e:94014**

Steeb, Willi-Hans *see* **Christen, M. et al., 2005j:92010**

Stoop, R. *see* **Christen, M. et al., 2005j:92010**

Storace, Marco *see* **Schimming, Thomas et al., 2005f:37177**

Su, Weifeng (*with* Safar, Zoltan; Liu, K. J. Ray) Diversity analysis of space-time modulation over time-correlated Rayleigh-Fading channels. (English summary)

Suehiro, Naoki *see* **Torii, Hideyuki et al., 2005c:94041**

Sumali, H. *see* **Frazho, A. E. et al., 2005g:93108**

Swamy, M. N. S. *see* **Samadi, Saed et al., 2005c:41016** *and* **Bouguezel, Saad et al., 2005h:65267**

Tahar, Sofiène *see* **Akbarpour, Behzad, (2005m:68012)**

Tan, Qiaofeng *see* **Yang, Xingpeng et al., 2005h:65274**

Tarczynski, Andrzej (*with* Allay, Najib) Spectral analysis of randomly sampled signals: suppression of aliasing and sampler jitter. (English summary) **2005g:94039**

Tawfiq, I. (*with* Vinh, T.) Nonlinear behaviour of structures using the Volterra series—signal processing and testing methods. (English summary) **2005f:74055**

Terlaky, Tamás *see* **Anand, Christopher Kumar et al., 2005g:90171**

Tertychnyĭ-Dauri, V. Yu. Parametric filtering: optimal synthesis on a nonlinear dynamic manifold. (Russian. Russian summary) **2005g:93114**

Teschke, Gerd *see* **Ramlau, Ronny, 2005e:65074** *and* **2005k:65103**

Thévenaz, Philippe *see* **Blu, Thierry et al., 2005e:94010**

Thirulogasanthar, K. (*with* Bahsoun, Wael) Frames built on fractal sets. (English summary) **2005f:42098**

Thomas, Tessamma *see* **Devassia, V. P. et al., 2005e:42113**

Tian, Zheng *see* **Wen, Xian Bin et al., 2005m:62069**

Torii, Hideyuki (*with* Nakamura, Makato[3]; Suehiro, Naoki) A new class of zero-correlation zone sequences. (English summary) **2005c:94041**

Tóth, László T. *see* **Lazar, Aurel A.**

Trivedi, Shalin (*with* Chandramouli, R.) Secret key estimation in sequential steganography. (English summary)

Tsang, Eric C. C. *see* **Ran, Qiwen et al., 2005h:65273**

Tseng, Chien Hsun (*with* Lawson, Stuart) Initial and boundary conditions in multidimensional wave digital filter algorithms for plate vibration. (English summary)

Tsirikos, Andreas *see* **Bougas, Paul et al.**

(Ünalmış, Banu) *see* **Galindo Soto, Félix, 2005a:42027**

Unser, Michael *see* **Blu, Thierry et al., 2005e:94010**

Vaidyanathan, P. P. *see* **Yoon, Byung-Jun**

Vandewalle, Joos *see* **De Lathauwer, Lieven, 2005g:15049**

Varas S., María Leonor *see* **Bacchelli, Barbara et al., 2005m:42058**

Venkataramani, Raman (*with* Bresler, Yoram) Multiple-input multiple-output sampling: necessary density conditions. (English summary) **2005e:94058**

Vetterli, Martin *see* **Maravić, Irena, 2005a:94037**

Vinh, T. *see* **Tawfiq, I., 2005f:74055**

Vinti, Gianluca *see* **Bardaro, Carlo, 2005f:41048** *and* **2005f:41097**

Waadeland, Haakon A limit theorem for approximants of PPC-fractions used in frequency analysis. **2005d:30005**

Walter, Gilbert G. (*with* Shen, Xiaoping) Wavelets based on prolate spheroidal wave functions. (English summary) **2005c:42041**

Wan, Hong Hui *see* **Hu, Zhong, 2005h:65272**

Wang, Bixiang *see* **Anand, Christopher Kumar et al., 2005g:90171**

Wang, H. Q. *see* **Ma, Jian-Fen, (2005i:42002)**

Wang, Hai Hui *see* **Peng, Li Zhong, 2005a:42030**

Wang, Qi[5] *see* **Ran, Qiwen et al., 2005h:65273**

Wang, Zhaohua *see* **Cao, Jihua et al., (2005i:42002)**

Wang, Zhe[2] *see* **Wu, Xiaolin[1] et al., 2005f:94074**

Ward, Jo *see* **Hadwin, Don et al., 2005h:15080**

Wei, Mu Sheng (*with* De Pierro, Alvaro R.; Yin, Jiahong) Iterative methods based on polynomial interpolation filters to detect discontinuities and recover point values from Fourier data. (English summary) **2005j:42004**

Wei, Xiaofeng *see* **Yang, Xingpeng et al., 2005h:65274**

Wellens, Thomas *see* **Shatokhin, Vyacheslav et al.**

Wen, Xian Bin (*with* Tian, Zheng; Lin, Wei; Yang, Zheng) Bootstrap approximation of parameters in a damped exponential signal model. (Chinese. English and Chinese summaries) **2005m:62069**

Wickerhauser, Mladen Victor Some problems related to wavelet packet bases and convergence. (English and Arabic summaries) **2005g:42090**

Williamson, Geoffrey A. *see* **Dunne, Bruce E., 2005g:93112**

Willson, Alan N., Jr. *see* **Fu, Dengwei**

von Wolfersdorf, Lothar On the autocorrelation and the triple correlation equation for complex-valued signals. (English and German summaries) **2005d:45011**

Wu, Lehua *see* **He, Shibiao et al., (2005i:42002)**

Wu, Wei Biao (*with* Michailidis, George; Zhang, Danlu) Simulating sample paths of linear fractional stable motion. (English summary) **2005g:60075**

Wu, Xiaolin[1] (*with* Dumitrescu, Sorina; Wang, Zhe[2]) Monotonicity-based fast algorithms for MAP estimation of Markov sequences over noisy channels. (English summary) **2005f:94074**

Xiang, Yong[1] *see* **Yang, Xingpeng et al., 2005h:65274**

Xie, Sheng Li *see* **Zhang, Jin-Long et al.**

Xu, Yuesheng *see* **Chen, Qiuhui et al., 2005a:42025** *and* **2005m:42061**

Yagci, B. *see* **Frazho, A. E. et al., 2005g:93108**

Yan, Yingbai *see* **Yang, Xingpeng et al., 2005h:65274**

Yang, Chao[2] (*with* Ng, Esmond G.; Penczek, Pawel A.) Matrix-free constructions of circulant and block circulant preconditioners. (English summary) **2005h:65058**

Yang, Jar-Ferr *see* **Chen, Che-Hong et al., 2005h:65269**

Yang, Jian Wei (*with* Cheng, Zheng Xing; Guo, Xiu Lan) Construction of compactly supported bivariate orthogonal wavelet filter. (Chinese. English and Chinese summaries) **2005f:42099**

Yang, Shizhong *see* **He, Shibiao et al., (2005i:42002)**

Yang, Shou Zhi Compactly supported interpolatory orthogonal multiwavelet packets. (English summary) **2005m:42072**

Yang, Xingpeng (*with* Tan, Qiaofeng; Wei, Xiaofeng; Xiang, Yong[1]; Yan, Yingbai; Jin, Guofan) Improved fast fractional-Fourier-transform algorithm. (English summary) **2005h:65274**

Yang, Zheng *see* **Wen, Xian Bin et al., 2005m:62069**

Yau, Stephen S. T. Computation of Fokker-Planck equation. (English summary) **2005m:82122**

Yazici, Birsen Stochastic deconvolution over groups. (English summary) **2005b:43014**

Yeung, Daniel S. *see* **Ran, Qiwen et al., 2005h:65273**

Yin, Ji Ying *see* **Hall, Peter G.**

Yin, Jiahong *see* **Wei, Mu Sheng et al., 2005j:42004**

Yoon, Byung-Jun (*with* Vaidyanathan, P. P.) A multirate DSP model for estimation of discrete probability density functions. (English summary)

Yu, Thomas P.-Y. *see* **Pang, Jong-Shi, 2005k:65020**

Yue, Dong (*with* Han, Qing-Long) Robust H_∞ filter design of uncertain descriptor systems with discrete and distributed delays. (English summary) **2005e:93052**

Zaghloul, Kareem A. (*with* Boahen, Kwabena A.) An ON-OFF log domain circuit that recreates adaptive filtering in the retina. (English summary)

Zasyad'ko, A. A. Comparing the Tikhonov method and the multicriterial optimization method for the solution of the signal restoration problem. (Russian. English, Russian and Ukrainian summaries) **2005k:65299**

(Zayed, Ahmed I.) *see* **Sampling, wavelets, and tomography, 2005h:94001**

Zhan, Yinwei (*with* Heijmans, Henk J. A. M.) Non-separable 2D biorthogonal wavelets with two-row filters. (English summary) **2005k:42113**

Zhang, Danlu *see* **Wu, Wei Biao et al., 2005g:60075**

Zhang, Feng Xia Chaotic private communication based on observer design method. (Chinese. English and Chinese summaries)
Zhang, Jin-Long (*with* Xie, Sheng Li; He, Zhao-Shui) Separability theory for blind signal separation. (English and Chinese summaries)
Zhang, Yanwu Complex-valued generalized Hebbian algorithm and its applications to sensor array signal processing. (*see* **2005b:00018**)
Zhang, Zhihua Generalized dyadic wavelet and signal processing. (English and Chinese summaries)
Zhu, Lian *see* **Reza, Ali Moghaddamjoo, 2005i:42047**
Zyablov, Viktor V. *see* **Handlery, Marc et al., 2005g:94105**

Items listed otherwise than by author

Artificial neural nets problem solving methods ★ Artificial neural nets problem solving methods. **2005a:68006**
Lecture Notes in Computer Science ★ Artificial neural nets problem solving methods. **2005a:68006**
Maó ★ Artificial neural nets problem solving methods. **2005a:68006**
Sampling, wavelets, and tomography ★ Sampling, wavelets, and tomography. **2005h:94001**

94A13 Detection theory

Antoniou, Andreas *see* **Wang, Xianmin et al.**
Asraf, Daniel E. (*with* Gustafsson, Mats G.) An analytical series expansion solution to the problem of noncoherent detection. (English summary)
Burnashev, M. V. On optimal linear detectors, asymptotic efficiency, and some CDMA problems. (Russian. Russian summary) **2005g:94026**
— On optimal detectors in multi-user detection problems. (Russian. Russian summary) **2005f:94032**
Butler, Ronald W. *see* **Kraut, Shawn et al., 2005j:94014**
Chida, Koji (*with* Komiya, Teruyuki; Hayashi, Toru) Anonymous networks with a robust anonymity revocation scheme. (Japanese. English and Japanese summaries)
Christensen, Lars P. B. A low-complexity joint synchronization and detection algorithm for single-band DS-CDMA UWB communications. (English summary)
Chu, Xiao-li *see* **Dong, Xue Dong et al., 2005m:94012**
Cichocki, Andrzej *see* **Li, Yuanqing et al.**
Comon, Pierre Blind identification and source separation in 2×3 under-determined mixtures. (English summary) **2005b:94012**
Das, Deepak (*with* Varanasi, Mahesh K.) Optimum noncoherent multiuser decision feedback detection. (English summary)
Dlay, S. S. *see* **Woo, W. L.**
Dong, Xue Dong (*with* Li, Yuan-yuan; Hua, Zheng-han; Chu, Xiao-li) Block codes for coding three dimensional signals. (English and Chinese summaries) **2005m:94012**
Eldar, Yonina C. (*with* Merhav, Neri) Minimax MSE-ratio estimation with signal covariance uncertainties. (English summary)
Ephremides, Anthony *see* **Li, Yun²**
Feng, Jun *see* **Qiu, Ya Zhu**
Gershman, Alex B. *see* **Zarifi, Keyvan et al.**
Gubner, John A. (*with* Scharf, Louis L.) Detection of constrained subspace signals in additive infinite-dimensional interference and noise. (English summary) **2005f:94033**
Gustafsson, Mats G. *see* **Asraf, Daniel E.**
Hayashi, Toru *see* **Chida, Koji et al.**
He, Zhao-Shui *see* **Zhang, Jin-Long et al.**
Ho, Dominic K. C. (*with* Xu, Wenwei) An accurate algebraic solution for moving source location using TDOA and FDOA measurements. (English summary) **2005f:94034**
Hua, Zheng-han *see* **Dong, Xue Dong et al., 2005m:94012**
Ingster, Yu. I. (*with* Lepskiĭ, O. V.) Multichannel nonparametric signal detection. (English summary) **2005b:94013**
Jaldén, Joakim (*with* Ottersten, Björn) On the complexity of sphere decoding in digital communications. (English summary) **2005j:94013**
Komiya, Teruyuki *see* **Chida, Koji et al.**
Kraut, Shawn (*with* Scharf, Louis L.; Butler, Ronald W.) The adaptive coherence estimator: a uniformly most-powerful-invariant adaptive detection statistic. (English summary) **2005j:94014**
Krishnamurthy, Vikram (*with* Wang, Xiaodong²; Yin, Gang George) Spreading code optimization and adaptation in CDMA via discrete stochastic approximation. (English summary) **2005f:94035**
Lepskiĭ, O. V. *see* **Ingster, Yu. I., 2005b:94013**
Li, Linbo (*with* Tulino, Antonia M.; Verdú, Sergio) Design of reduced-rank MMSE multiuser detectors using random matrix methods. (English summary)
Li, Yuan-yuan *see* **Dong, Xue Dong et al., 2005m:94012**
Li, Yuanqing (*with* Wang, Jun³; Cichocki, Andrzej) Blind source extraction from convolutive mixtures in ill-conditioned multi-input multi-output channels. (English summary)
Li, Yun² (*with* Ephremides, Anthony) Linear multiuser detectors for incompletely known symmetric signals in CDMA systems. (English summary)
Lu, Wu-Sheng *see* **Wang, Xianmin et al.**
Luo, Zhi-Quan *see* **Zarifi, Keyvan et al.**
Merhav, Neri *see* **Eldar, Yonina C.**
Ottersten, Björn *see* **Jaldén, Joakim, 2005j:94013**
Petropulu, Athina P. *see* **Yang, Xueshi et al., 2005c:94022**
Poor, H. Vincent *see* **Yang, Xueshi et al., 2005c:94022** *and* **Yao, Yingwei**
Prasad, Narayan² (*with* Varanasi, Mahesh K.) Analysis of decision feedback detection for MIMO Rayleigh-fading channels and the optimization of power and rate allocations. (English summary)
Pronyaev, E. V. *see* **Trifonov, A. P. et al., 2005g:94027**
Qiu, Ya Zhu (*with* Feng, Jun) A new detection method of ECG based on wavelet transform. (Chinese. English and Chinese summaries)
Scharf, Louis L. *see* **Gubner, John A., 2005f:94033** *and* **Kraut, Shawn et al., 2005j:94014**
Shahbazpanahi, Shahram *see* **Zarifi, Keyvan et al.**
Trifonov, A. P. (*with* Zakharov, A. V.; Pronyaev, E. V.) Adaptive detection of a stochastic signal under conditions of parametric a priori uncertainty. (Russian. Russian summary) **2005g:94027**
Tulino, Antonia M. *see* **Li, Linbo et al.**
Varanasi, Mahesh K. *see* **Prasad, Narayan²** *and* **Das, Deepak**
Verdú, Sergio *see* **Li, Linbo et al.**
Wang, Jun³ *see* **Li, Yuanqing et al.**
Wang, Xianmin (*with* Lu, Wu-Sheng; Antoniou, Andreas) Multiuser detectors for synchronous DS-CDMA systems based on a recursive p-norm convex relaxation approach. (English summary)
Wang, Xiaodong² *see* **Krishnamurthy, Vikram et al., 2005f:94035** *and* **Xu, Zhengyuan**
Woo, W. L. (*with* Dlay, S. S.) Neural network approach to blind signal separation of mono-nonlinearly mixed sources.
Xie, Sheng Li *see* **Zhang, Jin-Long et al.**
Xu, Bing Lian (*with* Yi, Xu Ming) The singularity detection of signal based on the wavelet transform. (Chinese. English and Chinese summaries)
Xu, Wenwei *see* **Ho, Dominic K. C., 2005f:94034**
Xu, Zhengyuan (*with* Wang, Xiaodong²) Large-sample performance of blind and group-blind multiuser detectors: a perturbation perspective. (English summary)
Yang, Xueshi (*with* Poor, H. Vincent; Petropulu, Athina P.) Memoryless discrete-time signal detection in long-range dependent noise. (English summary) **2005c:94022**
Yao, Yingwei (*with* Poor, H. Vincent) Blind detection of synchronous CDMA in non-Gaussian channels. (English summary)
Yi, Xu Ming *see* **Xu, Bing Lian**
Yin, Gang George *see* **Krishnamurthy, Vikram et al., 2005f:94035**
Zakharov, A. V. *see* **Trifonov, A. P. et al., 2005g:94027**
Zarifi, Keyvan (*with* Shahbazpanahi, Shahram; Gershman, Alex B.; Luo, Zhi-Quan) Robust blind multiuser detection based on the worst-case performance optimization of the MMSE receiver. (English summary)
Zhang, Jin-Long (*with* Xie, Sheng Li; He, Zhao-Shui) Separability theory for blind signal separation. (English and Chinese summaries)

Items with secondary classifications in 94A13

Bradley, Elizabeth *see* **Robins, Vanessa et al., 2005e:94034**
Caire, Giuseppe (*with* Müller, Ralf R.; Tanaka, Toshiyuki²) Iterative multiuser joint decoding: optimal power allocation and low-complexity implementation. (English summary) **2005e:94003**
Eldar, Yonina C. (*with* Megretskiĭ, A. V.; Verghese, George C.) Optimal detection of symmetric mixed quantum states. (English summary) **2005d:81044**
Gualtierotti, A. F. Skew-normal processes as models for random signals corrupted by Gaussian noise. (English summary)
Jin, Jiashun Detecting a target in very noisy data from multiple looks. (English summary) **2005m:62128**
Kel′manov, A. V. (*with* Khamidullin, S. A.) A posteriori detection of a quasiperiodically repeating fragment of a numerical sequence under conditions of noise and data loss. (Russian. Russian summary) **2005c:94017**
— (*with* Khamidullin, S. A.) Recognition of a numerical sequence from fragments of a quasiperiodically repeating standard sequence. (Russian. Russian summary) **2005m:62122**
— (*with* Mikhaĭlova, L. V.) Simultaneous detection in a quasiperiodic sequence of a given number of fragments from a standard set and its partition into sections that include series of identical fragments. (Russian. Russian summary) **2005m:62123**
Khamidullin, S. A. *see* **Kel′manov, A. V., 2005c:94017** *and* **2005m:62122**
Kitazawa, Shigeki (*with* Soshi, Masakazu; Miyaji, Atsuko) On anonymity metrics for practical anonymous communication protocols. (English summary)
Li, Xiao Hua¹ Blind channel estimation and equalization in wireless sensor networks based on correlations among sensors. (English summary)
Manton, Jonathan H. (*with* Neumann, Walter D.; Norbury, Paul T.) On the algebraic identifiability of finite impulse response channels driven by linearly precoded signals. (English summary) **2005g:93037**
Megretskiĭ, A. V. *see* **Eldar, Yonina C. et al., 2005d:81044**
Mikhaĭlova, L. V. *see* **Kel′manov, A. V., 2005m:62123**
Miyaji, Atsuko *see* **Kitazawa, Shigeki et al.**
Müller, Ralf R. *see* **Caire, Giuseppe et al., 2005e:94003**
Narayanan, Krishna R. *see* **Wang, Xiaodong² et al.**
Neumann, Walter D. *see* **Manton, Jonathan H. et al., 2005g:93037**
Norbury, Paul T. *see* **Manton, Jonathan H. et al., 2005g:93037**
Poor, H. Vincent *see* **Yao, Yingwei et al.**
Robins, Vanessa (*with* Ross, Natalie Dawn; Bradley, Elizabeth) Topology-based signal separation. (English summary) **2005e:94034**
Ross, Natalie Dawn *see* **Robins, Vanessa et al., 2005e:94034**
Shurenkov, G. Asymptotics of median estimates for multiple change points. (Ukrainian. Ukrainian summary) **2005j:62107**
Soshi, Masakazu *see* **Kitazawa, Shigeki et al.**
Sun, Feng-Wen *see* **Yao, Yingwei et al.**
Takawira, Fambirai *see* **Whitehead, James Bruce**
Tanaka, Toshiyuki² *see* **Caire, Giuseppe et al., 2005e:94003**
Verghese, George C. *see* **Eldar, Yonina C. et al., 2005d:81044**
Wang, Xiaodong² (*with* Yue, Guosen; Narayanan, Krishna R.) Optimization of LDPC-coded turbo CDMA systems. (English summary)
Whitehead, James Bruce (*with* Takawira, Fambirai) Performance analysis of the linearly constrained constant modulus algorithm-based multiuser detector. (English summary)
Yao, Yingwei (*with* Poor, H. Vincent; Sun, Feng-Wen) User capacity for synchronous multirate CDMA systems with linear MMSE receivers. (English summary)
Yue, Guosen *see* **Wang, Xiaodong² et al.**

94A14 Modulation and demodulation

Akgül, Murat *see* **Morgül, Ömer et al., 2005f:94036**

Arora, Himanshu (*with* Klemmer, Nikolaus; Morizio, James C.; Wolf, Patrick D.) Enhanced phase noise modeling of fractional-N frequency synthesizers. (English summary) **2005h:94020**
Engelberg, Shlomo Spread spectrum from two perspectives. (English summary) **2005c:94023**
Gerfers, Friedel *see* **Ortmanns, Maurits et al.**
Güntürk, C. Sinan (*with* Thao, Nguyen T.) Refined error analysis in second-order ΣΔ modulation with constant inputs. (English summary) **2005e:94041**
Karam, Jalal R. (*with* Karam, Marcel R.) Perfect reconstruction of hypermedia elements via filter banks. (English summary)
Karam, Marcel R. *see* **Karam, Jalal R.**
Kim, Beomsup *see* **Shim, Jae Hoon et al.**
Klemmer, Nikolaus *see* **Arora, Himanshu et al., 2005h:94020**
Krob, Daniel (*with* Vasil′eva, E. A.) Performance evaluation of demodulation with diversity—a combinatorial approach. II. Bijective methods. (English summary) **2005k:94009**
Li, Jian[4] *see* **Stoica, Petre et al., 2005d:94047**
Liu, Jianhua[2] *see* **Stoica, Petre et al., 2005d:94047**
Manoli, Yiannos *see* **Ortmanns, Maurits et al.**
Morgül, Ömer (*with* Solak, Ercan; Akgül, Murat) Observer based chaotic message transmission. (English summary) **2005f:94036**
Morizio, James C. *see* **Arora, Himanshu et al., 2005h:94020**
Ortmanns, Maurits (*with* Gerfers, Friedel; Manoli, Yiannos) A continuous-time ΣΔ modulator with reduced sensitivity to clock jitter through SCR feedback. (English summary)
Park, In-Cheol *see* **Shim, Jae Hoon et al.**
Shim, Jae Hoon (*with* Park, In-Cheol; Kim, Beomsup) Hybrid ΣΔ modulators with adaptive calibration. (English summary)
Solak, Ercan *see* **Morgül, Ömer et al., 2005f:94036**
Stoica, Petre (*with* Liu, Jianhua[2]; Li, Jian[4]) Maximum-likelihood double differential detection clarified. (English summary) **2005d:94047**
Thao, Nguyen T. The tiling phenomenon in ΣΔ-modulation. (English summary)
— Breaking the feedback loop of a class of ΣΔ A/D converters. (English summary)
— *see also* **Güntürk, C. Sinan, 2005e:94041**
Vasil′eva, E. A. *see* **Krob, Daniel, 2005k:94009**
Wolf, Patrick D. *see* **Arora, Himanshu et al., 2005h:94020**

Items with secondary classifications in 94A14

Fraser, Neil A. (*with* Nowrouzian, Behrouz) A novel statistical technique for the estimation of DC stability in higher-order Σ-Δ A/D converters. (English summary) **2005m:94005**
Fu, Fang Wei (*with* Kløve, Torleiv) Two constructions of permutation arrays. (English summary)
Giannakis, Georgios B. *see* **Zhao, Wanlun et al., 2005e:94093**
Janssen, Erwin *see* **Reefman, Derk et al., 2005m:94054**
Kløve, Torleiv *see* **Fu, Fang Wei**
Leus, Geert *see* **Zhao, Wanlun et al., 2005e:94093**
Nowrouzian, Behrouz *see* **Fraser, Neil A., 2005m:94005**
Reefman, Derk (*with* Reiss, Josh; Janssen, Erwin; Sandler, Mark) Description of limit cycles in sigma-delta modulators. (English summary) **2005m:94054**
Reiss, Josh *see* **Reefman, Derk et al., 2005m:94054**
Sandler, Mark *see* **Reefman, Derk et al., 2005m:94054**
Tse, David N. C. (*with* Viswanath, Pramod) On the capacity of the multiple antenna broadcast channel. (English summary) **2005f:94043**
Viswanath, Pramod Sum rate of a class of multiterminal Gaussian source coding problems. (English summary) **2005f:94005**
— *see also* **Tse, David N. C., 2005f:94043**
Zhao, Wanlun (*with* Leus, Geert; Giannakis, Georgios B.) Orthogonal design of unitary constellations for uncoded and Trellis-coded noncoherent space-time systems. (English summary) **2005e:94093**

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Aguirre, Luis A. *see* **Tôrres, Leonardo A. B.**
Ahlswede, Rudolf F. (*with* Blinovskiĭ, V. M.) Large deviations in quantum information theory. (Russian. Russian summary) **2005g:94028**
Alvo, M. *see* **Ratnarajah, T. et al., 2005b:94016**
Asadi, Majid (*with* Ebrahimi, Nader; Hamedani, G. G.; Soofi, Ehsan S.) Maximum dynamic entropy models. (English summary) **2005b:94014**
Baldi, Pierre A computational theory of surprise. (English summary) **2005d:94048**
Barron, Andrew *see* **Liang, Feng[1], 2005f:94040**
Benci, Vieri (*with* Bonanno, Claudio; Galatolo, Stefano; Menconi, G.; Virgilio, Michele) Dynamical systems and computable information. (English summary) **2005j:94015**
(Berger, Toby) *see* **Yeung, Raymond W., 2005a:94028**
Blakley, G. R. (*with* Borosh, I.; Holcomb, T.; Klappenecker, Andreas) Categorical code constructions. (English summary) **2005c:94024**
Blinovskiĭ, V. M. *see* **Ahlswede, Rudolf F., 2005g:94028**
Bohman, Tom A limit theorem for the Shannon capacities of odd cycles. II. (English summary) **2005h:94021**
Bonanno, Claudio *see* **Benci, Vieri et al., 2005j:94015**
Borosh, I. *see* **Blakley, G. R. et al., 2005c:94024**
Burgin, Mark Information theory: a multifaceted model of information. (English summary) **2005b:94015**
Cai, David *see* **Majda, Andrew J. et al., 2005a:94026**
Cao, Jia *see* **Zhang, Wei Ming[4] et al.**
Chan, Terence H. Balanced information inequalities. (English summary) **2005c:94025**
Chen, Xin (*with* Francia, Brent; Li, Ming[1]; McKinnon, Brian; Seker, Amit) Shared information and program plagiarism detection. (English summary) **2005f:94037**
Chkhartishvili, A. G. *see* **Novikov, D. A., 2005d:94050**
Chung, Fan (*with* Graham, Ronald L.; Lu, Linyuan) Guessing secrets with inner product questions. (English summary) **2005k:94010**
Conrad, Brian (*with* Mitzenmacher, Michael) Power laws for monkeys typing randomly: the case of unequal probabilities. (English summary) **2005f:94038**
Divsalar, Dariush (*with* Shamai, Shlomo) Worst-case mutual information trajectories in concatenated codes with asymptotic interleavers. (English summary) (*see* **2005a:94003**)
Ebrahimi, Nader *see* **Asadi, Majid et al., 2005b:94014**
Ferrara, Anna Lisa (*with* Masucci, Barbara) An information-theoretic approach to the access control problem. (English summary) (*see* **2005b:68027**)
Francia, Brent *see* **Chen, Xin et al., 2005f:94037**
Galatolo, Stefano *see* **Benci, Vieri et al., 2005j:94015**
Giovannetti, Vittorio (*with* Lloyd, Seth; Maccone, Lorenzo; Shapiro, Jeffrey H.; Yen, Brent J.) Minimum Rényi and Wehrl entropies at the output of bosonic channels. (English summary) **2005e:94042**
Golubtsov, P. V. Monoidal Kleisli category structure of classes of information transformers. (English, Russian and Ukrainian summaries) **2005e:94043**
Graham, Ronald L. *see* **Chung, Fan et al., 2005k:94010**
Hamedani, G. G. *see* **Asadi, Majid et al., 2005b:94014**
Harrow, Aram W. (*with* Lo, Hoi-Kwong) A tight lower bound on the classical communication cost of entanglement dilution. (English summary) **2005e:94044**
Holcomb, T. *see* **Blakley, G. R. et al., 2005c:94024**
Kakihara, Yûichirô Operator theoretic review for information channels. (English summary) **2005f:94039**
Kalker, Ton *see* **Willems, Frans M. J., 2005f:94044**
Khmelëv, D. V. *see* **Kukushkina, O. V. et al., 2005g:94029**
Klappenecker, Andreas *see* **Blakley, G. R. et al., 2005c:94024**
Kleeman, Richard *see* **Majda, Andrew J. et al., 2005a:94026**
Kukushkina, O. V. (*with* Polikarpov, A. A.; Khmelëv, D. V.) Determination of the authorship of a text using literal and grammatical information. (Russian. Russian summary) **2005g:94029**
Kumar, Panganamala Ramana *see* **Xie, Liang-Liang, 2005e:94046**
Kumar, Pranesh *see* **Taneja, Inder Jeet, 2005g:94031**
Li, Ming[1] *see* **Chen, Xin et al., 2005f:94037**
Li, Shi Qu *see* **Zhang, Wei Ming[4] et al.**
Liang, Feng[1] (*with* Barron, Andrew) Exact minimax strategies for predictive density estimation, data compression, and model selection. (English summary) **2005f:94040**
Liu, Jiu-fen *see* **Zhang, Wei Ming[4] et al.**
Lloyd, Seth *see* **Giovannetti, Vittorio et al., 2005e:94042**
Lo, Hoi-Kwong *see* **Harrow, Aram W., 2005e:94044**
Lu, Linyuan *see* **Chung, Fan et al., 2005k:94010**
Maccone, Lorenzo *see* **Giovannetti, Vittorio et al., 2005e:94042**
Machikina, E. P. *see* **Ryabko, B. Ya., 2005g:94030**
Majda, Andrew J. (*with* Kleeman, Richard; Cai, David) A mathematical framework for quantifying predictability through relative entropy. (English summary) **2005a:94026**
Masucci, Barbara *see* **Ferrara, Anna Lisa, (2005b:68027)**
McKinnon, Brian *see* **Chen, Xin et al., 2005f:94037**
Menant, Christophe Information and meaning. (English summary) **2005a:94027**
Menconi, G. *see* **Benci, Vieri et al., 2005j:94015**
Middendorf, Manuel *see* **Ziv, Etay et al., 2005m:94013**
Mitzenmacher, Michael *see* **Conrad, Brian, 2005f:94038**
Mossel, Elchanan Survey: information flow on trees. (English summary) **2005d:94049**
Moustakas, Aris L. *see* **Simon, Steven H., 2005f:94042**
Novikov, D. A. (*with* Chkhartishvili, A. G.) Information equilibrium: point structures of awareness. (Russian. Russian summary) **2005d:94050**
Polikarpov, A. A. *see* **Kukushkina, O. V. et al., 2005g:94029**
Ratnarajah, T. (*with* Vaillancourt, Rémi; Alvo, M.) Complex random matrices and Rayleigh channel capacity. (English summary) **2005b:94016**
Ryabko, B. Ya. (*with* Machikina, E. P.) An efficient method for generating uniformly distributed random numbers. (Russian. Russian summary) **2005g:94030**
Seker, Amit *see* **Chen, Xin et al., 2005f:94037**
Seroussi, Gadiel Universal types and simulation of individual sequences. (English summary) **2005f:94041**
Shamai, Shlomo *see* **Divsalar, Dariush, (2005a:94003)**
Shapiro, Jeffrey H. *see* **Giovannetti, Vittorio et al., 2005e:94042**
Shkarin, D. A. Improving the efficiency of the PPM algorithm. (Russian. Russian summary)
Simon, Steven H. (*with* Moustakas, Aris L.) Optimality of beamforming in multiple transmitter multiple receiver communication systems with partial channel knowledge. (English summary) **2005f:94042**
Soofi, Ehsan S. *see* **Asadi, Majid et al., 2005b:94014**
Taneja, Inder Jeet (*with* Kumar, Pranesh) Relative information of type s, Csiszár's f-divergence, and information inequalities. (English summary) **2005g:94031**
Tôrres, Leonardo A. B. (*with* Aguirre, Luis A.) Transmitting information by controlling nonlinear oscillators. (English summary)
Tronin, S. N. On the relation between the cardinalities of 1-orbits and 1-information of words. (Russian. Russian summary) **2005g:94032**
Tse, David N. C. (*with* Viswanath, Pramod) On the capacity of the multiple antenna broadcast channel. (English summary) **2005f:94043**
Vaillancourt, Rémi *see* **Ratnarajah, T. et al., 2005b:94016**
Virgilio, Michele *see* **Benci, Vieri et al., 2005j:94015**
Viswanath, Pramod *see* **Tse, David N. C., 2005f:94043**
Vorontsov, K. V. Combinatorial bounds for the quality of learning by precedents. (Russian) **2005e:94045**
Wiggins, Chris H. *see* **Ziv, Etay et al., 2005m:94013**
Willems, Frans M. J. (*with* Kalker, Ton) Coding theorems for reversible embedding. (English summary) **2005f:94044**
Xie, Liang-Liang (*with* Kumar, Panganamala Ramana) A network information theory for wireless communication: scaling laws and optimal operation. (English summary) **2005e:94046**

Yang, Ke On the (im)possibility of non-interactive correlation distillation. (English summary) **2005f:94045**
Yen, Brent J. *see* **Giovannetti, Vittorio et al., 2005e:94042**
Yeung, Raymond W. ★ A first course in information theory. **2005a:94028**
Zhang, Wei Ming[4] (*with* Li, Shi Qu; Cao, Jia; Liu, Jiu-fen) Information-theoretic analysis for the difficulty of extracting hidden information. (English summary)
Ziv, Etay (*with* Middendorf, Manuel; Wiggins, Chris H.) Information-theoretic approach to network modularity. (English summary) **2005m:94013**

Items with secondary classifications in 94A15

Abe, Sumiyoshi Generalized nonadditive information theory and quantum entanglement. (English summary) (*see* **2005g:82001**)
Abramov, Rafail V. *see* **Haven, Kyle et al.**
Al-Dhahir, Naofal *see* **Diggavi, Suhas N. et al., 2005e:94004**
de Alfaro, Luca (*with* Faella, Marco) Information flow in concurrent games. (English summary) **2005c:68194**
Alvo, M. *see* **Ratnarajah, T. et al., 2005m:94017**
Anantharam, Venkat *see* **Pakzad, Payam, 2005g:94126**
Audenaert, Koenraad M. R. (*with* Braunstein, Samuel L.) On strong superadditivity of the entanglement of formation. (English summary) **2005e:81021**
Badino, Massimiliano An application of information theory to the problem of the scientific experiment. (English summary)
Baronchelli, Andrea (*with* Caglioti, Emanuele; Loreto, Vittorio) Artificial sequences and complexity measures. (English summary) **2005m:68061**
Bartlett, Stephen D. (*with* Terno, Daniel R.) Relativistically invariant quantum information. (English summary) **2005m:81016**
Bar-Yossef, Ziv (*with* Jayram, T. S.; Kumar, S. Ravi; Sivakumar, Dandapani) An information statistics approach to data stream and communication complexity. (English summary) **2005b:68099**
Başar, Tamer *see* **Kashyap, Akshay et al.**
Beimel, Amos (*with* Ishai, Yuval) Information-theoretic private information retrieval: a unified construction (extended abstract). (English summary) (*see* **2005a:68007**)
Béjar, Ramón (*with* Domshlak, Carmel; Fernández, Cèsar; Gomes, Carla P.; Krishnamachari, Bhaskar; Selman, Bart; Valls, Magda) Sensor networks and distributed CSP: communication, computation and complexity. (English summary)
Bennett, Charles H. A resource-based view of quantum information. (English summary) **2005i:81025**
Biau, Gérard (*with* Devroye, Luc) A note on density model size testing. (English summary) **2005b:62045**
Binz, Ernst (*with* Pods, Sonja) Classical and quantum information transmission. (English summary) **2005j:81034**
Bjelaković, Igor (*with* Krüger, Tyll; Siegmund-Schultze, Rainer; Szkoła, Arleta) The Shannon-McMillan theorem for ergodic quantum lattice systems. (English summary) **2005g:81168**
Bossi, Annalisa (*with* Macedonio, Damiano; Piazza, Carla; Rossi, Sabina) Information flow security and recursive systems. (English summary) (*see* **2005b:68027**)
Brânzei, Rodica A Markov chain approach to three-person games with entropic criteria. (English summary) **2005f:91022**
Braunstein, Samuel L. *see* **Audenaert, Koenraad M. R., 2005e:81021**
Brito, Carlos (*with* Gafni, Eli; Vaya, Shailesh) An information theoretic lower bound for broadcasting in radio networks. (English summary) **2005e:68005**
Bucklew, James Antonio (*with* Nitinawarat, Sirin; Wierer, Jay) Universal simulation distributions. (English summary) **2005e:94054**
Busch, P. Less (precision) is more (information): quantum information in fuzzy probability theory. (English summary) **2005j:81005**
Caglioti, Emanuele *see* **Baronchelli, Andrea et al., 2005m:68061**
Caire, Giuseppe (*with* Shamai, Shlomo) Writing on dirty tape with LDPC codes. (English summary) **2005e:94084**
— (*with* Tuninetti, Daniela; Verdú, Sergio) Variable-rate coding for slowly fading Gaussian multiple-access channels. (English summary)
Calderbank, A. R. *see* **Diggavi, Suhas N. et al., 2005e:94004**
Chafaï, Djalil Entropies, convexity, and functional inequalities: on Φ-entropies and Φ-Sobolev inequalities. (English summary) **2005e:60170**
Chaitin, Gregory Two philosophical applications of algorithmic information theory. (English summary) **2005c:68115**
Chen, Xi[5] *see* **Qin, Gan[2] et al., 2005m:81046**
Childs, Andrew M. (*with* Leung, Debbie W.; Vidal, Guifré) Reversible simulation of bipartite product Hamiltonians. (English summary) **2005e:94085**
Cicalese, Ferdinando (*with* Deppe, Christian) Quasi-perfect minimally adaptive q-ary search with unreliable tests. (English summary) **2005d:68101**
Coullet, Pierre (*with* Toniolo, C.; Tresser, Charles) How much information can one store in a nonequilibrium medium? (English summary) **2005f:37189**
Deppe, Christian *see* **Cicalese, Ferdinando, 2005d:68101**
Devroye, Luc *see* **Biau, Gérard, 2005b:62045**
Diggavi, Suhas N. (*with* Al-Dhahir, Naofal; Calderbank, A. R.) Diversity embedding in multiple antenna communications. (English summary) **2005e:94004**
Dimitrov, Alex *see* **Mumey, Brendan et al., (2005j:92002)**
Domshlak, Carmel *see* **Béjar, Ramón et al.**
Dougherty, Randall (*with* Freiling, Christopher; Zeger, Kenneth) Linearity and solvability in multicast networks. (English summary)
Drmota, Michael (*with* Szpankowski, Wojciech) Precise minimax redundancy and regret. (English summary) **2005e:94066**
Du, Jiangfeng *see* **Qin, Gan[2] et al., 2005m:81046**
Ebrahimi, Nader (*with* Soofi, Ehsan S.) Information functions for reliability. (English summary) (*see* **2005a:62018**)
Effros, Michelle (*with* Médard, Muriel; Ho, Tracey; Ray, Siddharth; Karger, David R.; Kötter, Ralf; Hassibi, Babak) Linear network codes: a unified framework for source, channel, and network coding. (English summary) **2005h:94029**
Elze, Hans-Thomas (*with* Kodama, T.) On supercorrelated systems and phase space entrainment. (English summary) **2005m:82077**
Faella, Marco *see* **de Alfaro, Luca, 2005c:68194**
Fax, J. Alexander (*with* Murray, Richard M.) Information flow and cooperative control of vehicle formations. (English summary) **2005e:90013**
Feng, Jian Feng[1] *see* **Tuckwell, Henry C., (2005h:92008)**
Fernández, Cèsar *see* **Béjar, Ramón et al.**
Fisher, John W., III *see* **Learned-Miller, Erik G.**
Freiling, Christopher *see* **Dougherty, Randall et al.**
Frieden, B. Roy ★ Science from Fisher information. **2005f:81048**
Fujiwara, Akio Statistical estimation of a quantum operation. (English summary) **2005k:81028**
Gafni, Eli *see* **Brito, Carlos et al., 2005e:68005**
Gaĭdamakin, N. A. A thematic differentiation model of information access for a hierarchical structure of a classifier in automated control systems. (Russian. Russian summary) **2005c:93061**
Gedeon, Tomáš *see* **Mumey, Brendan et al., (2005j:92002)**
Gomes, Carla P. *see* **Béjar, Ramón et al.**
Gour, Gilad Faithful teleportation with partially entangled states. (English summary) **2005h:81093**
Grendar, Marian, Jr. Asymptotic identity of μ-projections and I-projections. (English summary) **2005m:62111**
Grinbaum, A. Elements of information-theoretic derivation of the formalism of quantum theory. (English summary) **2005h:81019**
Gröpl, Clemens (*with* Prömel, Hans Jürgen; Srivastav, Anand) Ordered binary decision diagrams and the Shannon effect. (English summary) **2005f:68032**
Halliwell, Garry T. (*with* Mercer, Peter R.) A refinement of an inequality from information theory. (English summary) **2005a:26025**
Halvorson, Hans On information-theoretic characterizations of physical theories. (English summary) **2005d:81015**
Hasegawa, Hiroshi H. Dual geometry of the Wigner-Yanase-Dyson information content. (English summary) **2005f:82009**
Hassibi, Babak *see* **Jing, Yindi, 2005e:94006** *and* **Effros, Michelle et al., 2005h:94029**
Haven, Kyle (*with* Majda, Andrew J.; Abramov, Rafail V.) Quantifying predictability through information theory: small sample estimation in a non-Gaussian framework. (English summary)
Hazewinkel, Michiel Dynamic stochastic models for indexes and thesauri, identification clouds, and information retrieval and storage. (English summary) (*see* **2005f:60007**)
Ho, Tracey *see* **Effros, Michelle et al., 2005h:94029**
Hoffman, D. G. (*with* Johnson, Peter D., Jr.; Wilson, Nadine) Generating Huffman sequences. (English summary) **2005m:94020**
Hradil, Z. *see* **Řeháček, Jaroslav**
Ishai, Yuval *see* **Beimel, Amos, (2005a:68007)**
Jacquet, Philippe (*with* Szpankowski, Wojciech) Markov types and minimax redundancy for Markov sources. (English summary) **2005f:94061**
Janke, Wolfhard (*with* Johnston, Desmond A.; Kenna, R.) Information geometry and phase transitions. (English summary) **2005a:82034**
Jayram, T. S. *see* **Bar-Yossef, Ziv et al., 2005b:68099**
Jing, Yindi (*with* Hassibi, Babak) Design of fully diverse multiple-antenna codes based on Sp(2). (English summary) **2005e:94006**
Johnson, Peter D., Jr. *see* **Hoffman, D. G. et al., 2005m:94020**
Johnston, Desmond A. *see* **Janke, Wolfhard et al., 2005a:82034**
Kahng, Byungik The invariant fractals of symplectic piecewise affine elliptic dynamics. (English summary) **2005j:37086**
Kaiser, Andreas (*with* Schreiber, Thomas[2]) Nonparametric detection of dependences in stochastic point processes. (English summary) **2005b:37196**
Kakihara, Yûichirô Pseudoergodicity in information channels. (English summary) **2005e:94090**
Kar, Koushik (*with* Sarkar, Saswati; Tassiulas, Leandros) Achieving proportional fairness using local information in Aloha networks. (English summary) **2005d:94002**
Karger, David R. *see* **Effros, Michelle et al., 2005h:94029**
Kashyap, Akshay (*with* Başar, Tamer; Srikant, Rayadurgam) Correlated jamming on MIMO Gaussian fading channels. (English summary)
Kenna, R. *see* **Janke, Wolfhard et al., 2005a:82034**
Khrennikov, Andrei Yu. ★ Information dynamics in cognitive, psychological, social and anomalous phenomena. **2005b:91005**
Kocsis, Imre On the stability of a sum form equation in several variables. (English summary) **2005i:39030**
Kodama, T. *see* **Elze, Hans-Thomas, 2005m:82077**
Korotkov, E. V. (*with* Korotkova, M. A.; Kudryashov, Nikolai A.) Information decomposition method to analyze symbolical sequences. (English summary) **2005a:92037**
Korotkova, M. A. *see* **Korotkov, E. V. et al., 2005a:92037**
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Kumar, S. Ravi *see* **Bar-Yossef, Ziv et al., 2005b:68099**
Learned-Miller, Erik G. (*with* Fisher, John W., III) ICA using spacings estimates of entropy. (English summary)
Leung, Debbie W. *see* **Childs, Andrew M. et al., 2005e:94085**
Lombardi, Olimpia What is information? (English summary) **2005a:94033**
Loreto, Vittorio *see* **Baronchelli, Andrea et al., 2005m:68061**
Luo, Shunlong (*with* Zhang, Zhengmin) An informational characterization of Schrödinger's uncertainty relations. (English summary) **2005d:81063**
Macedonio, Damiano *see* **Bossi, Annalisa et al., (2005b:68027)**
Majda, Andrew J. *see* **Haven, Kyle et al.**
Manthey, Bodo (*with* Reischuk, Rüdiger) The intractability of computing the Hamming distance. (English summary) **2005m:68089**
Matsumoto, Keiji[2] (*with* Shimono, Toshiyuki; Winter, Andreas) Remarks on additivity of the Holevo channel capacity and of the entanglement of formation. (English summary) **2005i:81018**

— *see also* **Tsuda, Yoshiyuki, 2005j:81026**
McCall, John J. Induction: from Kolmogorov and Solomonoff to de Finetti and back to Kolmogorov. (English summary) **2005h:60012**
Médard, Muriel *see* **Effros, Michelle et al., 2005h:94029**
Melik-Gaĭkazyan, I. V. ★ Информационные процессы и реальность. (Russian. Russian summary) [Information processes and reality] **2005c:00004**
Mercer, Peter R. *see* **Halliwell, Garry T., 2005a:26025**
Merhav, Neri (*with* Weinberger, Marcelo J.) On universal simulation of information sources using training data. (English summary) **2005b:62018**
Miller, John P. *see* **Mumey, Brendan et al., (2005j:92002)**
Moscarini, Giuseppe Limited information capacity as a source of inertia. (English summary) **2005b:91187**
Mumey, Brendan (*with* Sarkar, Aditi; Gedeon, Tomáš; Dimitrov, Alex; Miller, John P.) Finding neural codes using random projections. (English summary) (*see* **2005j:92002**)
Murray, Richard M. *see* **Fax, J. Alexander, 2005e:90013**
Nielsen, Mogens (*with* Krukow, Karl) On the formal modelling of trust in reputation-based systems. (English summary) (*see* **2005g:68002**)
Nikov, Ventzislav (*with* Nikova, Svetla; Preneel, Bart) On multiplicative linear secret schemes. (English summary) **2005e:94245**
Nikova, Svetla *see* **Nikov, Ventzislav et al., 2005e:94245**
Nishio, Hidenosuke (*with* Saito, Takashi[1]) Information dynamics of cellular automata. I. An algebraic study. (English summary) **2005f:68100**
Nitinawarat, Sirin *see* **Bucklew, James Antonio et al., 2005e:94054**
Pakzad, Payam (*with* Anantharam, Venkat) A new look at the generalized distributive law. (English summary) **2005g:94126**
Piazza, Carla *see* **Bossi, Annalisa et al., (2005b:68027)**
Pods, Sonja *see* **Binz, Ernst, 2005j:81034**
Preneel, Bart *see* **Nikov, Ventzislav et al., 2005e:94245**
Prömel, Hans Jürgen *see* **Gröpl, Clemens et al., 2005f:68032**
Qin, Gan[2] (*with* Chen, Xi[3]; Sun, Min; Du, Jiangfeng) Quantum Bertrand duopoly of incomplete information. (English summary) **2005m:81046**
Ratnarajah, T. (*with* Vaillancourt, Rémi; Alvo, M.) Complex random matrices and the capacity of a Rician channel. (Russian. Russian summary) **2005m:94017**
Ray, Siddharth *see* **Effros, Michelle et al., 2005h:94029**
Řeháček, Jaroslav (*with* Hradil, Z.) Uncertainty relations from Fisher information. (English summary)
Reischuk, Rüdiger *see* **Manthey, Bodo, 2005m:68089**
Renner, Renato (*with* Wolf, Stefan) Unconditional authenticity and privacy from an arbitrarily weak secret. (English summary) **2005e:94201**
— (*with* Wolf, Stefan) New bounds in secret-key agreement: the gap between formation and secrecy extraction. (English summary) **2005d:94186**
Romashchenko, Andrei A criterion for the extractability of mutual information for a triple of strings. (Russian. Russian summary) **2005f:68029**
Rossi, Sabina *see* **Bossi, Annalisa et al., (2005b:68027)**
Saito, Takashi[1] *see* **Nishio, Hidenosuke, 2005f:68100**
Sarkar, Aditi *see* **Mumey, Brendan et al., (2005j:92002)**
Sarkar, Saswati *see* **Kar, Koushik et al., 2005d:94002**
Savari, Serap A. Compressing a representation of events in a concurrent system. (English summary) **2005d:68034**
Schreiber, Thomas[2] *see* **Kaiser, Andreas, 2005b:37196**
Selman, Bart *see* **Béjar, Ramón et al.**
Shalizi, Cosma Rohilla Optimal nonlinear prediction of random fields on networks. (English summary) **2005k:60161**
Shamai, Shlomo *see* **Caire, Giuseppe, 2005e:94084**
Shimono, Toshiyuki *see* **Matsumoto, Keiji[2] et al., 2005i:81018**
Shor, Peter W. Equivalence of additivity questions in quantum information theory. (English summary) **2005e:81033a**
— *see also* **Errata: "Equivalence of additivity questions in quantum information theory", 2005e:81033b**
Siegmund-Schultze, Rainer *see* **Bjelaković, Igor et al., 2005g:81168**
Sivakumar, Dandapani *see* **Bar-Yossef, Ziv et al., 2005b:68099**
Small, Michael (*with* Tse, Chi K.) Optimal embedding parameters: a modelling paradigm. (English summary) **2005b:37199**
Soofi, Ehsan S. *see* **Ebrahimi, Nader, (2005a:62018)**
Srikant, Rayadurgam *see* **Kashyap, Akshay et al.**
Srivastav, Anand *see* **Gröpl, Clemens et al., 2005f:68032**
Stănică, Pantelimon (*with* Sung, Soo Hak) Boolean functions with five controllable cryptographic properties. (English summary) **2005a:94069**
Sun, Min *see* **Qin, Gan[2] et al., 2005m:81046**
Sung, Soo Hak *see* **Stănică, Pantelimon, 2005a:94069**
Suyari, Hiroki Generalization of Shannon-Khinchin axioms to nonextensive systems and the uniqueness theorem for the nonextensive entropy. (English summary)
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Szpankowski, Wojciech *see* **Drmota, Michael, 2005e:94066** *and* **Jacquet, Philippe, 2005f:94061**
Tassiulas, Leandros *see* **Kar, Koushik et al., 2005d:94002**
Terno, Daniel R. *see* **Bartlett, Stephen D., 2005m:81016**
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Tresser, Charles *see* **Coullet, Pierre et al., 2005f:37189**
Tse, Chi K. *see* **Small, Michael, 2005b:37199**
Tsuda, Yoshiyuki (*with* Matsumoto, Keiji[2]) Quantum estimation for non-differentiable models. (English summary) **2005j:81026**
Tuckwell, Henry C. (*with* Feng, Jian Feng[1]) A theoretical overview. (*see* **2005h:92008**)
Tuninetti, Daniela *see* **Caire, Giuseppe et al.**
Uchida, Osamu Maximum generating rate of variable-length Markov random sequences. (English summary) **2005a:94041**
Vaillancourt, Rémi *see* **Ratnarajah, T. et al., 2005m:94017**
Valls, Magda *see* **Béjar, Ramón et al.**
Vaya, Shailesh *see* **Brito, Carlos et al., 2005e:68005**
Verdú, Sergio *see* **Caire, Giuseppe et al.**
Vidal, Guifré *see* **Childs, Andrew M. et al., 2005e:94085**
V′yugin, Vladimir V. On the instability of an individual ergodic theorem. (Russian. Russian summary) **2005g:37004**
Wang, Guandong *see* **Zhang, Weixiong et al.**
Wang, Qiuping-A. Extensive generalization of statistical mechanics based on incomplete information theory. (English summary) **2005a:82008**
Weinberger, Marcelo J. *see* **Merhav, Neri, 2005b:62018**
Wierer, Jay *see* **Bucklew, James Antonio et al., 2005e:94054**
von Willich, Manfred A technique with an information-theoretic basis for protecting secret data from differential power attacks. (English summary) (*see* **2005b:94001**)
Wilson, Nadine *see* **Hoffman, D. G. et al., 2005m:94020**
Winter, Andreas *see* **Matsumoto, Keiji[2] et al., 2005i:81018**
Wittenburg, Lars *see* **Zhang, Weixiong et al.**
Wolf, Stefan *see* **Renner, Renato, 2005d:94186** *and* **2005e:94201**
Xing, Xiu San Nonequilibrium statistical information theory. (Chinese. English and Chinese summaries) **2005m:82081**
Xing, Zhao *see* **Zhang, Weixiong et al.**
Yamano, Takuya A statistical measure of complexity with nonextensive entropy. (English summary) **2005d:94060**
Zbăganu, Gheorghiță A new inequality with applications in measure and information theories. (English summary) **2005b:60222**
Zeger, Kenneth *see* **Dougherty, Randall et al.**
Zhang, Weixiong (*with* Wang, Guandong; Xing, Zhao; Wittenburg, Lars) Distributed stochastic search and distributed breakout: properties, comparison and applications to constraint optimization problems in sensor networks. (English summary)
Zhang, Zhengmin *see* **Luo, Shunlong, 2005d:81063**

Items listed otherwise than by author

Errata:
"Equivalence of additivity questions in quantum information theory" Erratum: "Equivalence of additivity questions in quantum information theory" [Comm. Math. Phys. **246** (2004), no. 3, 453–472; MR2053939 (2005e:81033a)] by P. W. Shor. **2005e:81033b**

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Abe, Sumiyoshi (*with* Kaniadakis, Giorgio; Scarfone, A. M.) Stabilities of generalized entropies. (English summary) **2005f:94046**
Abellán, Joaquín (*with* Moral, Serafín) Range of entropy for credal sets. (*see* **2005i:62007**)
Aczél, János Entropies old and new (and both new and old) and their characterizations. (English summary) (*see* **2005c:62004**)
Agrawal, Satya Narayan *see* **Verma, S. K. et al.**
Alajaji, Fady *see* **Rached, Ziad et al.**
Arimitsu, Toshihico *see* **Jizba, Petr, 2005d:94054**
Artstein, Shiri (*with* Ball, Keith M.; Barthe, Franck; Naor, Assaf) Solution of Shannon's problem on the monotonicity of entropy. **2005e:94047**
Balian, Roger Entropy, a protean concept. (English summary) (*see* **2005c:82002**)
Ball, Keith M. *see* **Artstein, Shiri et al., 2005e:94047**
Barnett, N. S. (*with* Cerone, Pietro; Dragomir, Sever Silvestru; Roumeliotis, John) Approximating Csiszár f-divergence via two integral identities and applications. (English summary) **2005f:94047**
— (*with* Cerone, Pietro; Dragomir, Sever Silvestru; Sofo, Anthony) Approximating Csiszár f-divergence via an Ostrowski type identity for n-time differentiable functions. (English summary) **2005f:94048**
Barthe, Franck *see* **Artstein, Shiri et al., 2005e:94047**
Bar-Yam, Yaneer Multiscale complexity/entropy. (English summary)
Batu, Tuğkan (*with* Dasgupta, Sanjoy; Kumar, S. Ravi; Rubinfeld, Ronitt) The complexity of approximating entropy. (English summary) (*see* **2005i:68004**)
Campbell, L. Lorne *see* **Rached, Ziad et al.**
Cerone, Pietro *see* **Barnett, N. S. et al., 2005f:94047** *and* **2005f:94048**
Chen, Wen-bo *see* **Wang, Zhong Zhi[1]**
Chen, Yun-mei *see* **Rao, Murali et al., 2005e:94052**
Csiszár, Imre (*with* Matúš, František) On information closures of exponential families: a counterexample. (English summary)
Curado, Evaldo M. F. (*with* Nobre, Fernando D.) On the stability of analytic entropic forms. (English summary) **2005a:94029**
Dasgupta, Sanjoy *see* **Batu, Tuğkan et al., (2005i:68004)**
Dëmin, N. S. (*with* Safronova, Irina; Rozhkova, Svetlana) About structure of Shannon information amount for joint filtering and extrapolation problem by continuous-discrete memory observations. (English and Lithuanian summaries) **2005g:94033**
Dragomir, Sever Silvestru (*with* Gluščević, V.) New estimates of the Kullback-Leibler distance and applications. (English summary) **2005d:94051**
— (*with* Gluščević, V.; Pearce, Charles E. M.) Approximations for Csiszár f-divergence via midpoint inequalities. (English summary) **2005d:94052**
— A converse inequality for the Csiszár Φ-divergence. (English summary) **2005g:94034**
— *see also* **Barnett, N. S. et al., 2005f:94047** *and* **2005f:94048**
Ebrahimi, Nader (*with* Soofi, Ehsan S.; Zahedi, Hassan) Information properties of order statistics and spacings. (English summary) **2005a:94030**
Emelyanova, Natalya A. *see* **Yul′met′ev, R. M. et al., 2005d:94061**
Evans, Robin J. *see* **Nair, Girish N. et al., 2005e:94050**
Ferreira, Paulo J. S. G. (*with* Reis, Manuel J. C. S.) Fuzzy information on discrete and continuous domains: approximation results. (English summary) **2005g:94035**
Friedgut, Ehud Hypergraphs, entropy, and inequalities.
Frigg, Roman In what sense is the Kolmogorov-Sinai entropy a measure for chaotic behaviour?—Bridging the gap between dynamical systems theory and communication theory. (English summary) **2005f:94049**
Gafarov, Fail M. *see* **Yul′met′ev, R. M. et al., 2005d:94061**
Gallager, Robert *see* **Prabhakar, Balaji, 2005a:94035**
Garliauskas, Algis Conceptions and modeling for transmitted information evaluation by ANN. (English and Lithuanian summaries) **2005h:94022**

Girardin, Valerie On the different extensions of the ergodic theorem of information theory. (English summary) (*see* **2005f:60007**)
Gluščević, V. *see* **Dragomir, Sever Silvestru et al., 2005d:94051** *and* **2005d:94052**
Godavarti, Mahesh (*with* Hero, A. O., III) Convergence of differential entropies. (English summary) **2005a:94031**
Grassberger, Peter *see* **Kraskov, Alexander et al.**
Grendar, Marian *see* **Grendar, Marian, Jr., 2005d:94053**
Grendar, Marian, Jr. (*with* Grendar, Marian) Maximum entropy method: Shannon-Kullback vs. Rényi-Tsallis. (English summary) **2005d:94053**
Grishanin, B. A. Coherent information as a natural information measure of a quantum channel. (Russian. Russian summary) **2005g:94036**
Harremoës, Peter (*with* Vignat, Christophe) An entropy power inequality for the binomial family. (English summary) **2005a:94032**
— (*with* Ruzankin, Pavel S.) Rate of convergence to Poisson law in terms of information divergence. (English summary)
Hemlata *see* **Vinocha, O. P., 2005d:94058**
Hero, A. O., III *see* **Godavarti, Mahesh, 2005a:94031**
Hu, Qinghua (*with* Yu, Da Ren) Entropies of fuzzy indiscernibility relation and its operations. (English summary) **2005j:94016**
Jizba, Petr (*with* Arimitsu, Toshihico) Generalized statistics: yet another generalization. (English summary) **2005d:94054**
Johnson, Oliver A conditional entropy power inequality for dependent variables. (English summary)
Kaniadakis, Giorgio (*with* Lissia, Marcello; Scarfone, A. M.) Deformed logarithms and entropies. (English summary) **2005e:94048**
— *see also* **Abe, Sumiyoshi et al., 2005f:94046**
Kraskov, Alexander (*with* Stögbauer, Harald; Grassberger, Peter) Estimating mutual information. (English summary)
Kumar, S. Ravi *see* **Batu, Tuğkan et al., (2005i:68004)**
Lamberti, Pedro W. (*with* Martin, María Teresa; Plastino, Angel Luis; Rosso, O. A.) Intensive entropic non-triviality measure. (English summary) **2005d:94055**
Lausmaa, Tõnu On informational properties of covers. (English and Estonian summaries) **2005m:94014**
Lavenda, B. H. Information and coding discrimination of pseudo-additive entropies (PAE). (English summary) **2005h:94023**
Leus, V. A. On a geometric generalization of entropy. (Russian. Russian summary)
Lissia, Marcello *see* **Kaniadakis, Giorgio et al., 2005e:94048**
Lombardi, Olimpia What is information? (English summary) **2005a:94033**
Luo, Shunlong (*with* Zhang, Qiang[1]) On skew information. (English summary) **2005e:94049**
Malone, David (*with* Sullivan, Wayne G.) Guesswork and entropy. (English summary) **2005a:94034**
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Martin, María Teresa *see* **Lamberti, Pedro W. et al., 2005d:94055**
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Moran, William *see* **Nair, Girish N. et al., 2005e:94050**
Nair, Girish N. (*with* Evans, Robin J.; Mareels, Iven M. Y.; Moran, William) Topological feedback entropy and nonlinear stabilization. (English summary) **2005e:94050**
Naor, Assaf *see* **Artstein, Shiri et al., 2005e:94047**
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Pfister, Charles E. (*with* Sullivan, Wayne G.) Rényi entropy, guesswork moments, and large deviations. (English summary) **2005f:94050**
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Plastino, Angel Luis *see* **Lamberti, Pedro W. et al., 2005d:94055**
Prabhakar, Balaji (*with* Gallager, Robert) Entropy and the timing capacity of discrete queues. (English summary) **2005a:94035**
Prasad, Sudhakar (*with* Menicucci, N. C.) Fisher information with respect to cumulants. (English summary) **2005e:94051**
Rached, Ziad (*with* Alajaji, Fady; Campbell, L. Lorne) The Kullback-Leibler divergence rate between Markov sources. (English summary)
Rao, Murali (*with* Chen, Yun-mei; Vemuri, Baba C.; Wang, Fei[4]) Cumulative residual entropy: a new measure of information. (English summary) **2005e:94052**
Reis, Manuel J. C. S. *see* **Ferreira, Paulo J. S. G., 2005g:94035**
Rosso, O. A. *see* **Lamberti, Pedro W. et al., 2005d:94055**
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Scarfone, A. M. *see* **Kaniadakis, Giorgio et al., 2005e:94048** *and* **Abe, Sumiyoshi et al., 2005f:94046**
Schroeder, Marcin J. An alternative to entropy in the measurement of information. (English summary) **2005j:94018**
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Solé, Ricard V. (*with* Valverde, Sergi) Information theory of complex networks: on evolution and architectural constraints. (English summary) **2005k:94011**
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Sreevally, Akella (*with* Varma, Sushama K.) Generating measure of cross entropy by using measure of weighted entropy. (English summary) **2005c:94026**
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Varma, Sushama K. (*with* Sharma, T. C.) On hyperbolic measure of entropy. (English summary)
— *see also* **Sreevally, Akella, 2005c:94026**
Vemuri, Baba C. *see* **Rao, Murali et al., 2005e:94052**
Verma, S. K. (*with* Pandey, Shiv Kumar) Relation between MEP and MDIP with reference to Kapur's entropy. (English summary)
— (*with* Sharma, T. C.; Agrawal, Satya Narayan) On generalisation of information radius. (English summary)
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Vinocha, O. P. (*with* Hemlata) Havrda and Charvat's entropy and the probability of error. (English summary) **2005d:94058**
Wang, Fei[4] *see* **Rao, Murali et al., 2005e:94052**
Wang, Zhong Zhi[1] (*with* Chen, Wen-bo) The comparison between an arbitrary information source and Markov chains and its limit properties. (English and Chinese summaries)
Yamano, Takuya On a simple derivation of a family of nonextensive entropies from information content. (English summary)
— A statistical complexity measure with nonextensive entropy and quasi-multiplicativity. (English summary) **2005d:94059**
— A statistical measure of complexity with nonextensive entropy. (English summary) **2005d:94060**
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Yu, Da Ren *see* **Hu, Qinghua, 2005j:94016**
Yul′met′ev, R. M. (*with* Emelyanova, Natalya A.; Gafarov, Fail M.) Dynamical Shannon entropy and information Tsallis entropy in complex systems. (English summary) **2005d:94061**
Zahedi, Hassan *see* **Ebrahimi, Nader et al., 2005a:94030**
Zhang, Qian Sheng Information representation of knowledge in database and its rough dynamic system. (Chinese. English and Chinese summaries)
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Items with secondary classifications in 94A17

Abe, Sumiyoshi Tsallis entropy: how unique? (English summary) **2005b:82001**
— (*with* Rajagopal, A. K.) The second law in nonextensive quantum thermostatistics for small systems. (English summary) **2005c:82003**
— Stability analysis of generalized entropies and q-exponential distributions. (English summary) **2005d:82057**
Ahlswede, Rudolf F. (*with* Cai, Ning) On lossless quantum data compression with a classical helper. (English summary) **2005h:94028**
Amigó, José M. *see* **Szczepański, Janusz et al., (2005j:92002)**
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Auletta, Gennaro Quantum information and inferential reasoning. (English summary)
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Bachmat, E. *see* **Stotland, A. et al., 2005d:81074**
Bălcău, Costel Maximum entropy methods for countable Markov chains. (English summary) **2005h:60226**
Barak, Boaz (*with* Shaltiel, Ronen; Wigderson, Avi) Computational analogues of entropy. (English summary) **2005c:68042**
Bar-Yossef, Ziv Sampling lower bounds via information theory. (English summary) **2005k:68081**
Bercher, J.-F. *see* **Vignat, Christophe, 2005b:62019**
Berlinet, Alain (*with* Brunel, Elodie) Cross-validated density estimates based on Kullback-Leibler information. (English summary) **2005d:62063**
Bjelaković, Igor (*with* Siegmund-Schultze, Rainer) An ergodic theorem for the quantum relative entropy. (English summary) **2005i:82042**
Bober, Mirosław *see* **Skarbek, Władysław et al., 2005b:62139**
Borwein, Jonathan Michael (*with* Karamanos, K.) Algebraic dynamics of certain gamma function values. (English summary) **2005j:11091**
Boţ, Radu Ioan (*with* Grad, Sorin-Mihai; Wanka, Gert) Duality for optimization problems with entropy-like objective functions. (English summary) **2005m:90148**
Braess, Dietrich (*with* Forster, Jürgen; Sauer, Thomas; Simon, Hans Ulrich) How to achieve minimax expected Kullback-Leibler distance from an unknown finite distribution. (English summary) (*see* **2005a:68003**)
Brindza, Béla (*with* Maksa, Gyula) A note on non-negative information functions. (English summary) **2005b:39029**
Broomhead, D. S. (*with* Sidorov, Nikita) Mutual information and capacity of a linear digital channel. (English summary) **2005h:94034**
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Cai, David *see* **Majda, Andrew J. et al., 2005a:94026**
Cai, Haixiao (*with* Kulkarni, Sanjeev R.; Verdú, Sergio) Universal entropy estimation via block sorting. (English summary) **2005g:94040a**
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Cai, Ning *see* **Ahlswede, Rudolf F., 2005h:94028**
Canosa, N. (*with* Rossignoli, R.) General non-additive entropic forms and the inference of quantum density operators. (English summary) **2005h:81089**
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Claesson, Ingvar *see* **Persson, Per et al., 2005i:93083**

Coecke, Bob (*with* Martin, Keye) Partiality in physics. (English summary) **2005j:81036**
Coffey, Mark W. Asymptotic relation for the quantum entropy of momentum in energy eigenstates. (English summary) **2005d:81147**
Cohen, Doron *see* **Stotland, A. et al., 2005d:81074**
Comănescu, D. (*with* Dragomir, Sever Silvestru; Pearce, Charles E. M.) Geometric means, index mappings and entropy. (English summary) **2005c:26044**
Costa, Jose A. (*with* Hero, A. O., III) Geodesic entropic graphs for dimension and entropy estimation in manifold learning. (English summary) **2005d:68118**
— *see also* **Vignat, Christophe et al., 2005c:82008**
Crutchfield, James P. *see* **Feldman, David P., 2005h:37040**
(Dalibard, Jean) *see* **Seminar: Poincaré, 2003, 2005c:82002**
Darrigol, Olivier The origins of the entropy concept. (*see* **2005c:82002**)
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Diamond, Phil (*with* Kloeden, Peter E.; Vladimirov, Igor) Mean anisotropy of homogeneous Gaussian random fields and anisotropic norms of linear translation-invariant operators on multidimensional integer lattices. (English summary) **2005k:60156**
Dover, Yaniv A short account of a connection of power laws to the information entropy. (English summary) **2005a:82003**
Dragomir, Sever Silvestru (*with* Gluščević, V.; Pearce, Charles E. M.) The approximation of Csiszár f-divergence for absolutely continuous mappings. (English summary) **2005e:26024**
— (*with* Gluščević, V.; Pearce, Charles E. M.) The approximation of Csiszár f-divergence for mappings of bounded variation. (English summary) **2005e:26025**
— A converse of the Jensen inequality for convex mappings of several variables and applications. (English summary) **2005a:26023**
— *see also* **Comănescu, D. et al., 2005c:26044**
(Duplantier, Bertrand) *see* **Seminar: Poincaré, 2003, 2005c:82002**
Erb, Ionas (*with* Ay, Nihat) Multi-information in the thermodynamic limit. (English summary) **2005m:82018**
Evans, Robin J. *see* **Nair, Girish N., 2005d:93145**
Falcioni, Massimo (*with* Loreto, Vittorio; Vulpiani, Angelo) Kolmogorov's legacy about entropy, chaos, and complexity. (English summary) **2005b:82003**
— (*with* Palatella, Luigi; Vulpiani, Angelo) Production rate of the coarse-grained Gibbs entropy and the Kolmogorov-Sinai entropy: A real connection? (English summary) **2005m:82078**
Fătu-Mihoc, Cristina Ioana *see* **Mihoc, Ion, 2005a:62041**
Feldman, David P. (*with* Crutchfield, James P.) Synchronizing to periodicity: the transient information and synchronization time of periodic sequences. (English summary) **2005h:37040**
Forster, Jürgen *see* **Braess, Dietrich et al., (2005a:68003)**
Frank, T. D. Complete description of a generalized Ornstein-Uhlenbeck process related to the nonextensive Gaussian entropy. (English summary)
Frieden, B. Roy ★ Science from Fisher information. **2005f:81048**
Friedland, Shmuel (*with* Peled, Uri N.) Computation of entropy in statistical mechanics and information theory. (English summary) **2005k:82002**
Fuglede, Bent Spirals in Hilbert space: with an application in information theory. (English summary) **2005m:47085**
Gallavotti, Giovanni Entropy production and thermodynamics of nonequilibrium stationary states: a point of view. (English summary) **2005h:82070**
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(Gell-Mann, Murray) *see* **Nonextensive entropy—interdisciplinary applications, 2005g:82001**
Gilardoni, Gustavo L. Accuracy of posterior approximations via χ^2 and harmonic divergences. (English summary)
Giovannetti, Vittorio (*with* Guha, Saikat; Lloyd, Seth; Maccone, Lorenzo; Shapiro, Jeffrey H.; Yen, Brent J.; Yuen, Horace P.) Classical capacity of free-space optical communication. (English summary) **2005k:81384**
Girardin, Valerie Entropy maximization for Markov and semi-Markov processes. (English summary) **2005a:60117**
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Grad, Sorin-Mihai *see* **Boţ, Radu Ioan et al., 2005m:90148**
Greenwood, Priscilla E. (*with* Müller, Ursula U.; Ward, Lawrence M.) Soft threshold stochastic resonance. (English summary) **2005k:92009**
Grigelionis, B. On information processes in statistical experiments with distributed observations. (English summary) **2005b:60088**
Grünwald, Peter D. (*with* Dawid, A. Philip) Game theory, maximum entropy, minimum discrepancy and robust Bayesian decision theory. (English summary) **2005g:62019**
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Gühne, Otfried (*with* Lewenstein, Maciej) Entropic uncertainty relations and entanglement. (English summary) **2005c:81025**
Hayashi, Masahito (*with* Imai, Hiroshi; Matsumoto, Keiji[2]; Ruskai, Mary Beth; Shimono, Toshiyuki) Qubit channels which require four inputs to achieve capacity: implications for additivity conjectures. (English summary) **2005k:81048**
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Hiai, Fumio Free relative entropy and q-deformation theory. (English summary) **2005k:46176**
Hotta, Masahiro (*with* Ozawa, Masanao) Quantum estimation by local observables. (English summary) **2005d:81054**
Huang, Tian-min *see* **Qing, Ming et al.**
Imai, Hideki (*with* Müller-Quade, Jörn; Nascimento, Anderson C. A.; Tuyls, Pim; Winter, Andreas) An information theoretical model for quantum secret sharing. (English summary) **2005m:81062**
Imai, Hiroshi *see* **Hayashi, Masahito et al., 2005k:81048**
Iwase, Kōsei *see* **Kawamura, Toshihiko, 2005k:62065**
Jenčová, Anna Geodesic distances on density matrices. (English summary) **2005d:81055**
Jizba, Petr (*with* Arimitsu, Toshihico) The world according to Rényi: thermodynamics of multifractal systems. (English summary) **2005g:82012**
— (*with* Arimitsu, Toshihico) Observability of Rényi's entropy. (English summary) **2005e:82002**
Kai, Du[2] (*with* Wan, Hui[2]; Xin, Xiao Long) Infinite non-probabilistic measure entropy in the setting of fuzzy sets theory. (Chinese. English and Chinese summaries)
Kaniadakis, Giorgio (*with* Scarfone, A. M.) Lesche stabilty of κ-entropy. (English summary)
— *see also* **News and expectations in thermostatistics**
Karam, Lina J. *see* **Liu, Zhen[4], 2005j:94006**
Karamanos, K. *see* **Borwein, Jonathan Michael, 2005j:11091**
Kawamura, Toshihiko (*with* Iwase, Kōsei) Composition of estimators based on characterizations by maximum entropy method of a generalized Pareto distribution. (Japanese. English and Japanese summaries) **2005k:62065**
Kieffer, John C. (*with* Yang, En-Hui) Grammar-based lossless universal refinement source coding. (English summary) **2005f:94062**
Kleeman, Richard *see* **Majda, Andrew J. et al., 2005a:94026**
Kloeden, Peter E. *see* **Diamond, Phil et al., 2005k:60156**
(Kolmogorov, Andreĭ Nikolaevich) *see* **Falcioni, Massimo et al., 2005b:82003**
Kopf, C. Coding and entropy for piecewise continuous piecewise monotone transformations. (English summary) **2005i:37042**
Kucharski, Krzysztof *see* **Skarbek, Władysław et al., 2005b:62139**
Kulkarni, Sanjeev R. *see* **Cai, Haixiao et al., 2005g:94040a**; **2005g:94040b** *and* **Errata:"Universal entropy estimation via block sorting", 2005g:94040b**
Ledoux, Michel A (one-dimensional) free Brunn-Minkowski inequality. (English and French summaries) **2005m:60036**
Levy, Bernard C. (*with* Nikoukhah, Ramine) Robust least-squares estimation with a relative entropy constraint. (English summary) **2005d:62019**
Lewenstein, Maciej *see* **Gühne, Otfried, 2005c:81025**
Li, Mingyan (*with* Poovendran, Radha) Broadcast enforced threshold schemes with disenrollment. (English summary) **2005f:94136**
Li, Xing Si (*with* Pan, Shaohua[2]) Duality for entropy optimization and its applications. (English summary) **2005h:90156**
(Lissia, Marcello) *see* **News and expectations in thermostatistics**
Liu, Baoding ★ Uncertainty theory. **2005i:68078**
Liu, Wen[1] *see* **Yang, Wei Guo[1], 2005i:60056**
Liu, Zhen[4] (*with* Karam, Lina J.) Mutual information-based analysis of JPEG2000 contexts. (English summary) **2005j:94006**
Lloyd, Seth *see* **Giovannetti, Vittorio et al., 2005k:81384**
Loreto, Vittorio *see* **Falcioni, Massimo et al., 2005b:82003**
Maccone, Lorenzo *see* **Giovannetti, Vittorio et al., 2005k:81384**
Magaril-Il'yaev, Georgiĭ Georgievich (*with* Osipenko, Konstantin Yu.; Tikhomirov, Vladimir Mikhaĭlovich) Uncertain knowledge about an object and the accuracy of methods for its recovery. (Russian. Russian summary) **2005i:62061**
Majda, Andrew J. (*with* Kleeman, Richard; Cai, David) A mathematical framework for quantifying predictability through relative entropy. (English summary) **2005a:94026**
Maksa, Gyula *see* **Brindza, Béla, 2005b:39029**
Martin, Keye *see* **Coecke, Bob, 2005j:81036**
Matsumoto, Keiji[2] *see* **Hayashi, Masahito et al., 2005k:81048**
Maybank, Stephen J. Fisher information and model selection for projective transformations of the line. (English summary) **2005c:62112**
Merhav, Neri *see* **Weissman, Tsachy, 2005d:62154**
Miclo, Laurent Notes on the speed of entropic convergence in the central limit theorem. (English summary) **2005h:60070**
Mihoc, Ion (*with* Fătu-Mihoc, Cristina Ioana) On the bilateral truncated exponential distributions. (English summary) **2005a:62041**
Mitter, Sanjoy K. (*with* Newton, Nigel J.) Information and entropy flow in the Kalman-Bucy filter. (English summary) **2005i:93082**
Moustakas, Aris L. *see* **Simon, Steven H., 2005f:94042**
Müller, Ursula U. *see* **Greenwood, Priscilla E. et al., 2005k:92009**
Müller-Quade, Jörn *see* **Imai, Hideki et al., 2005m:81062**
Nadarajah, Saralees (*with* Zografos, Konstantinos) Expressions for Rényi and Shannon entropies for bivariate distributions. (English summary)
Nair, Girish N. (*with* Evans, Robin J.) Stabilizability of stochastic linear systems with finite feedback data rates. (English summary) **2005d:93145**
Nascimento, Anderson C. A. *see* **Imai, Hideki et al., 2005m:81062**
Nath, Prem On the measurable solutions of a functional equation related to some measures of entropy in information theory. (English summary) **2005e:39061**
Naudts, Jan Escort density operators and generalized quantum information measures. (English summary) **2005m:82011**
Newton, Nigel J. *see* **Mitter, Sanjoy K., 2005i:93082**
Nikoukhah, Ramine *see* **Levy, Bernard C., 2005d:62019**
Niven, Robert K. The constrained entropy and cross-entropy functions. (English summary) **2005a:82006**
Nordebo, Sven *see* **Persson, Per et al., 2005i:93083**
Ohya, Masanori Information dynamics and its application to recognition process. **2005f:94072**
Osipenko, Konstantin Yu. *see* **Magaril-Il'yaev, Georgiĭ Georgievich et al., 2005i:62061**
Ozawa, Masanao *see* **Hotta, Masahiro, 2005d:81054**
Özaydin, Murad (*with* Przebinda, Tomasz) An entropy-based uncertainty principle for a locally compact abelian group. (English summary) **2005j:43005**
Palatella, Luigi *see* **Falcioni, Massimo et al., 2005m:82078**
Pan, Hong *see* **Wang, De Hui et al., 2005g:62057**
Pan, Shaohua[2] *see* **Li, Xing Si, 2005h:90156**
Pardo Llorente, Julio Ángel *see* **Pérez Pérez, Maria Teresa, 2005a:62052**
Pearce, Charles E. M. *see* **Comănescu, D. et al., 2005c:26044**; **Dragomir, Sever Silvestru et al., 2005e:26024** *and* **2005e:26025**
Peled, Uri N. *see* **Friedland, Shmuel, 2005k:82002**
Pennini, F. (*with* Plastino, Angel Luis) Power-law distributions and Fisher's information measure. (English summary) **2005a:82007**
Pérez Pérez, Maria Teresa (*with* Pardo Llorente, Julio Ángel) Asymptotic approximations for the distributions of the $K\varphi$-divergence goodness-of-fit statistics. (English summary) **2005a:62052**
Persson, Per (*with* Nordebo, Sven; Claesson, Ingvar) Design of discrete coefficient FIR filters by a fast entropy-directed deterministic annealing algorithm. (English summary)

2005i:93083

Plastino, Angel Luis A conceptual framework for the Wheeler program. (English summary)
— *see also* **Pennini, F., 2005a:82007**
Pomeranskiĭ, A. A. *see* **Stotland, A. et al., 2005d:81074**
Poovendran, Radha *see* **Li, Mingyan, 2005f:94136**
Prelov, Vyacheslav V. (*with* Verdú, Sergio) Second-order asymptotics of mutual information. (English summary)
Przebinda, Tomasz *see* **Özaydin, Murad, 2005j:43005**
Qing, Ming (*with* Cao, Yue; Huang, Tian-min) Fuzzy entropy: axiomatic definition and neural networks model. (English summary)
Rajagopal, A. K. *see* **Abe, Sumiyoshi, 2005c:82003**
Rajković, Milan Entropic nonextensivity as a measure of time series complexity. (English summary) **2005c:37164**
Renner, Renato (*with* Wolf, Stefan) New bounds in secret-key agreement: the gap between formation and secrecy extraction. (English summary) **2005d:94186**
(Rivasseau, Vincent) *see* **Seminar: Poincaré, 2003, 2005c:82002**
Romashchenko, Andrei A criterion for the extractability of mutual information for a triple of strings. (Russian. Russian summary) **2005f:68029**
Rossignoli, R. *see* **Canosa, N., 2005h:81089**
Ruskai, Mary Beth Erratum: "Inequalities for quantum entropy: a review with conditions for equality" [J. Math. Phys. **43** (2002), no. 9, 4358–4375; MR1924445 (2004e:82007)]. **2005h:82010**
— *see also* **Hayashi, Masahito et al., 2005k:81048**
Sanchez-Vives, M. V. *see* **Szczepański, Janusz et al., (2005j:92002)**
Sauer, Thomas *see* **Braess, Dietrich et al., (2005a:68003)**
Savari, Serap A. Compression of words over a partially commutative alphabet. (English summary) **2005d:68100**
Scarfone, A. M. *see* **Kaniadakis, Giorgio**
Segre, Gavriel Physical complexity of classical and quantum objects and their dynamical evolution from an information-theoretic viewpoint. (English summary) **2005i:37010**
Shaltiel, Ronen *see* **Barak, Boaz et al., 2005c:68042**
Shapiro, Jeffrey H. *see* **Giovannetti, Vittorio et al., 2005k:81384**
Shimono, Toshiyuki *see* **Hayashi, Masahito et al., 2005k:81048**
Sidorov, Nikita *see* **Broomhead, D. S., 2005h:94034**
Siegmund-Schultze, Rainer *see* **Bjelaković, Igor, 2005i:82042**
Sieniutycz, Stanisław Extremum properties of entropy to determine dynamics of growth and evolution in complex systems. (English summary) **2005c:82089**
Simon, Hans Ulrich *see* **Braess, Dietrich et al., (2005a:68003)**
Simon, Steven H. (*with* Moustakas, Aris L.) Optimality of beamforming in multiple transmitter multiple receiver communication systems with partial channel knowledge. (English summary) **2005f:94042**
Skarbek, Władysław (*with* Kucharski, Krzysztof; Bober, Mirosław) Dual LDA for face recognition. (English summary) **2005b:62139**
Słomczyński, Wojciech (*with* Zastawniak, Tomasz) Utility maximizing entropy and the second law of thermodynamics. (English summary) **2005f:60090**
Sonis, M. Discrete non-linear probabilistic chains. (English summary) **2005b:60090**
Stotland, A. (*with* Pomeranskiĭ, A. A.; Bachmat, E.; Cohen, Doron) The information entropy of quantum-mechanical states. (English summary) **2005d:81074**
Szczepański, Janusz (*with* Amigó, José M.; Wajnryb, E.; Sanchez-Vives, M. V.) Characterizing spike trains with Lempel-Ziv complexity. (English summary) (*see* **2005j:92002**)
Taneja, Inder Jeet Generalized relative information and information inequalities. (English summary) **2005c:26038**
Tikhomirov, Vladimir Mikhaĭlovich *see* **Magaril-Il'yaev, Georgiĭ Georgievich et al., 2005i:62061**
Tsallis, Constantino Nonextensive statistical mechanics: construction and physical interpretation. (*see* **2005g:82001**)
— *see also* **Nonextensive entropy—interdisciplinary applications, 2005g:82001** *and* **Tsekouras, G. A., 2005m:82004**
Tsekouras, G. A. (*with* Tsallis, Constantino) Generalized entropy arising from a distribution of q indices. (English summary) **2005m:82004**
Tuyls, Pim *see* **Imai, Hideki et al., 2005m:81062**
Vasconcelos, Nuno On the efficient evaluation of probabilistic similarity functions for image retrieval. (English summary) **2005e:68038**
Verdú, Sergio *see* **Cai, Haixiao et al., 2005g:94040a; 2005g:94040b; Errata:"Universal entropy estimation via block sorting", 2005g:94040b** *and* **Prelov, Vyacheslav V.**
Vignat, Christophe (*with* Bercher, J.-F.) On Fisher information inequalities and score functions in non-invertible linear systems. (English summary) **2005b:62019**
— (*with* Hero, A. O., III; Costa, Jose A.) About closedness by convolution of the Tsallis maximizers. (English summary) **2005c:82008**
Vladimirov, Igor *see* **Diamond, Phil et al., 2005k:60156**
Vulpiani, Angelo *see* **Falcioni, Massimo et al., 2005b:82003** *and* **2005m:82078**
Vyugin, Mikhail V. Systems of strings with large mutual complexity. (Russian. Russian summary) **2005f:68062**
Wada, Tatsuaki Thermodynamic stability conditions for nonadditive composable entropies. (English summary)
Wajnryb, E. *see* **Szczepański, Janusz et al., (2005j:92002)**
Wan, Hui² *see* **Kai, Du² et al.**
Wang, De Hui (*with* Zhao, Shi Shun; Pan, Hong) Statistics inferences of the number of psychological state under entropy loss function. (Chinese. English and Chinese summaries) **2005g:62057**
Wanka, Gert *see* **Boţ, Radu Ioan et al., 2005m:90148**
Ward, Lawrence M. *see* **Greenwood, Priscilla E. et al., 2005k:92009**
Weissman, Tsachy (*with* Merhav, Neri) Universal prediction of random binary sequences in a noisy environment. (English summary) **2005d:62154**
Wigderson, Avi *see* **Barak, Boaz et al., 2005c:68042**
Winter, Andreas *see* **Imai, Hideki et al., 2005m:81062**
Wolf, Stefan *see* **Renner, Renato, 2005d:94186**
Xin, Xiao Long *see* **Kai, Du² et al.**
Yamano, Takuya Does the Lesche condition for stability validate generalized entropies? (English summary) **2005g:82003**
Yang, En-Hui *see* **Kieffer, John C., 2005f:94062**
Yang, Wei Guo[1] (*with* Liu, Wen[1]) The asymptotic equipartition property for mth-order nonhomogeneous Markov information sources. (English summary) **2005i:60056**
Yen, Brent J. *see* **Giovannetti, Vittorio et al., 2005k:81384**
Yin, Xiangrong Canonical correlation analysis based on information theory. (English summary) **2005c:62106**
Yuen, Horace P. *see* **Giovannetti, Vittorio et al., 2005k:81384**
Zaripov, R. G. Change in distinction information in the evolution of nonextensive systems in the space of control parameters. (Russian. Russian summary) **2005e:82059**
Zastawniak, Tomasz *see* **Słomczyński, Wojciech, 2005f:60090**
Zhao, Shi Shun *see* **Wang, De Hui et al., 2005g:62057**
Zografos, Konstantinos *see* **Nadarajah, Saralees**

Items listed otherwise than by author

Errata:
"Universal entropy estimation via block sorting" Erratum to: "Universal entropy estimation via block sorting" [IEEE Trans. Inform. Theory **50** (2004), no. 7, 1551–1561; MR2095858 (2005g:94040a)] by H. Cai, S. R. Kulkarni and S. Verdú. **2005g:94040b**
News and expectations in thermostatistics ★ News and expectations in thermostatistics.
Nonextensive entropy—interdisciplinary applications ★ Nonextensive entropy—interdisciplinary applications. **2005g:82001**
Paris ★ Poincaré Seminar 2003. **2005c:82002**
Seminar:
Poincaré, 2003 ★ Poincaré Seminar 2003. **2005c:82002**
Villasimius ★ News and expectations in thermostatistics.

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Alexiou, Constantin *see* **Papaodysseus, Constantin et al.**
Allay, Najib *see* **Tarczynski, Andrzej, 2005g:94039**
Beaty, M. G. (*with* Dodson, Maurice M.) The Whittaker-Kotel'nikov-Shannon theorem, spectral translates and Plancherel's formula. (English summary) **2005b:94019**
Brehler, Matthias *see* **Dayal, Pranav et al.**
Bresler, Yoram *see* **Venkataramani, Raman, 2005e:94058**
Brown, J. L., Jr. Estimation of energy aliasing error for nonbandlimited signals. (English summary) **2005b:94020**
Bucklew, James Antonio (*with* Nitinawarat, Sirin; Wierer, Jay) Universal simulation distributions. (English summary) **2005e:94054**
Campbell, L. Lorne Fourier and Hankel bandlimited functions. (English summary) **2005e:94055**
Chellappa, Rama *see* **Qian, Gang et al.**
Chen, Rong[1] *see* **Guo, Dong et al., 2005h:94026**
Cheung-Mon-Chan, Pascal (*with* Moulines, Éric) Global sampling for sequential filtering over discrete state space. (English summary) **2005h:94025**
Chung, Soon-Yeong *see* **Shin, Chang Eon et al., 2005f:94056**
Dayal, Pranav (*with* Brehler, Matthias; Varanasi, Mahesh K.) Leveraging coherent space-time codes for noncoherent communication via training. (English summary)
Dodson, Maurice M. Shannon's sampling theorem, incongruent residue classes and Plancherel's theorem. (English and French summaries) **2005a:94036**
— *see also* **Beaty, M. G., 2005b:94019**
Eldar, Yonina C. Sampling without input constraints: consistent reconstruction in arbitrary spaces. (English summary) (*see* **2005h:94001**)
Fang, Gen Sun *see* **Long, Jing Fan, 2005f:94054**
Faridani, Adel Sampling theory and parallel-beam tomography. (English summary) (*see* **2005h:94001**)
Feichtinger, Hans G. (*with* Werther, Tobias) Robustness of regular sampling in Sobolev algebras. (English summary) (*see* **2005h:94001**)
García, Antonio G. (*with* Portal, Alberto) Hypercircle inequalities and sampling theory. (English summary) **2005f:94051**
— (*with* Portal, Alberto) Sampling in the functional Hilbert space induced by a Hilbert space valued kernel. (English summary) **2005f:94052**
— (*with* Muñoz-Bouzo, M. J.; Portal, Alberto) Irregular sampling of generalized harmonizable processes. (English summary) **2005g:94037**
Güntürk, C. Sinan Number theoretical error estimates in a quantization scheme for bandlimited signals. (English summary) **2005e:94056**
Guo, Dong (*with* Wang, Xiaodong[2]; Chen, Rong[1]) Multilevel mixture Kalman filter. (English summary) **2005h:94026**
Hall, Peter G. (*with* Yin, Ji Ying) Nonuniform sequential sampling for signal analysis. (English summary)
Hammerich, Edwin A sampling theorem for time-frequency localized signals. (English summary) **2005f:94053**
Iinbor, Ruska *see* **Nikolov, Zdravko et al., 2005f:94055**
Javidi, Bahram *see* **Stern, Adrian, 2005a:94038**
Kim, Dohan *see* **Shin, Chang Eon et al., 2005f:94056**
Korsemov, Chavdar *see* **Nikolov, Zdravko et al., 2005f:94055**
Lacaze, Bernard (*with* Mailhes, Corinne) Random process reconstruction from multiple noisy source observations. (English summary)
Lazar, Aurel A. (*with* Tóth, László T.) Perfect recovery and sensitivity analysis of time encoded bandlimited signals. (English summary)
Li, Shidong Irregular sampling in a generic subspace. (English summary) **2005g:94038**
Long, Jing Fan (*with* Fang, Gen Sun) On uniform truncation error bounds and aliasing error for multidimensional sampling expansion. (English summary) **2005f:94054**
Madych, W. R. Band limited functions and extensions of classical interpolation series. (English summary) **2005e:94057**
Mailhes, Corinne *see* **Lacaze, Bernard**
Maravić, Irena (*with* Vetterli, Martin) Exact sampling results for some classes of parametric nonbandlimited 2-D signals. (English summary) **2005a:94037**
Miotke, J. R. (*with* Rebollo-Neira, Laura) Oversampling of Fourier coefficients for hiding messages. (English summary) **2005c:94027**

Moulines, Éric *see* **Cheung-Mon-Chan, Pascal**, 2005h:94025
Muñoz-Bouzo, M. J. *see* **García, Antonio G. et al.**, 2005g:94037
Na, Sangsin On the support of fixed-rate minimum mean-squared error scalar quantizers for a Laplacian source. (English summary)
Nikolov, Zdravko (*with* Iinbor, Ruska; Korsemov, Chavdar; Toshev, Hristo) Sampling and interpolation of periodic signals. (English and Bulgarian summaries) **2005f:94055**
Nitinawarat, Sirin *see* **Bucklew, James Antonio et al.**, 2005e:94054
Panagopoulos, Thanasis E. *see* **Papaodysseus, Constantin et al.**
Papaodysseus, Constantin (*with* Alexiou, Constantin; Roussopoulos, George D; Panagopoulos, Thanasis E.) Quantization effects and stabilization of the fast-Kalman algorithm. (English summary)
Portal, Alberto *see* **García, Antonio G. et al.**, 2005f:94051; 2005f:94052 *and* 2005g:94037
Qian, Gang (*with* Chellappa, Rama; Zheng, Qinfen) Bayesian algorithms for simultaneous structure from motion estimation of multiple independently moving objects. (English summary)
Qian, Tao Paley-Wiener theorems and Shannon sampling in Clifford analysis setting. (English summary) **2005b:94021**
Rebollo-Neira, Laura *see* **Miotke, J. R.**, 2005c:94027
Roussopoulos, George D *see* **Papaodysseus, Constantin et al.**
Shin, Chang Eon (*with* Chung, Soon-Yeong; Kim, Dohan) General sampling theorem using contour integral. (English summary) **2005f:94056**
Smale, Stephen (*with* Zhou, Ding-Xuan) Shannon sampling and function reconstruction from point values. **2005b:94022**
Stern, Adrian (*with* Javidi, Bahram) Sampling in the light of Wigner distribution. (English summary) **2005a:94038**
Strohmer, Thomas (*with* Tanner, Jared) Implementations of Shannon's sampling theorem, a time-frequency approach. (English summary) **2005k:94012**
Sun, Wenchang Sampling theorems for multivariate shift invariant subspaces. (English summary) **2005k:94013**
Tanner, Jared *see* **Strohmer, Thomas**, 2005k:94012
Tanner, Robert Michael On graph constructions for LDPC codes by quasi-cyclic extension. (English summary) (*see* **2005a:94003**)
Tarczynski, Andrzej (*with* Allay, Najib) Spectral analysis of randomly sampled signals: suppression of aliasing and sampler jitter. (English summary) **2005g:94039**
Toshev, Hristo *see* **Nikolov, Zdravko et al.**, 2005f:94055
Tóth, László T. *see* **Lazar, Aurel A.**
Vaidyanathan, P. P. Sampling theorems for nonbandlimited signals. (English summary) (*see* **2005h:94001**)
Varanasi, Mahesh K. *see* **Dayal, Pranav et al.**
Venkataramani, Raman (*with* Bresler, Yoram) Multiple-input multiple-output sampling: necessary density conditions. (English summary) **2005e:94058**
Vetterli, Martin *see* **Maravić, Irena**, 2005a:94037
Wang, Xiaodong[2] *see* **Guo, Dong et al.**, 2005h:94026
Werther, Tobias *see* **Feichtinger, Hans G.**, (2005h:94001)
Wierer, Jay *see* **Bucklew, James Antonio et al.**, 2005e:94054
Yin, Ji Ying *see* **Hall, Peter G.**
Zhao, Chun[1] (*with* Zhao, Ping[3]) Sampling theorem and irregular sampling theorem for multiwavelet subspaces. (English summary)
Zhao, Ping[3] *see* **Zhao, Chun[1]**
Zheng, Qinfen *see* **Qian, Gang et al.**
Zhou, Ding-Xuan *see* **Smale, Stephen**, 2005b:94022

Items with secondary classifications in 94A20

Abu-Risha, M. H. (*with* Annaby, Mahmoud; Asharabi, R. M.) Spectral and sampling theorems in $l^2(a,b;\omega)\oplus\mathbb{C}^r$. (English summary) **2005e:39052**
Ahmad, M. Omair *see* **Samadi, Saed et al.**, 2005i:93028
Aldroubi, Akram (*with* Sun, Qiyu; Tang, Wai-Shing) Nonuniform average sampling and reconstruction in multiply generated shift-invariant spaces. (English summary) **2005d:42036**
— (*with* Larson, David Royal; Tang, Wai-Shing; Weber, Eric) Geometric aspects of frame representations of abelian groups. (English summary) **2005g:42067**
Almansa, Andrés (*with* Durand, Sylvain; Rougé, Bernard) Measuring and improving image resolution by adaptation of the reciprocal cell. (English summary)
Annaby, Mahmoud *see* **Abu-Risha, M. H. et al.**, 2005e:39052
Asharabi, R. M. *see* **Abu-Risha, M. H. et al.**, 2005e:39052
Baillieul, John *see* **Li, Keyong**, 2005d:93095
Bar-Yossef, Ziv Sampling lower bounds via information theory. (English summary) **2005k:68081**
Bass, Richard F. (*with* Gröchenig, Karlheinz) Random sampling of multivariate trigonometric polynomials. (English summary) **2005j:94011**
(Benedetto, John J.) *see* **Sampling, wavelets, and tomography**, 2005h:94001
Blu, Thierry (*with* Thévenaz, Philippe; Unser, Michael) Complete parameterization of piecewise-polynomial interpolation kernels. (English summary) **2005e:94020**
Bolić, Miodrag (*with* Djurić, Petar M.; Hong, Sangjin) Resampling algorithms for particle filters: a computational complexity perspective. (English summary) **2005h:93162**
Djurić, Petar M. *see* **Bolić, Miodrag et al.**, 2005h:93162
Durand, Sylvain *see* **Almansa, Andrés et al.**
Effros, Michelle *see* **Fleming, Michael Ian James et al.**, 2005g:94049
Fang, Gen Sun (*with* Long, Jing Fan) n-widths on the classes of multivariate bandlimited functions. (English summary) **2005k:41085**
Fleming, Michael Ian James (*with* Zhao, Qian[1]; Effros, Michelle) Network vector quantization. (English summary) **2005g:94049**
Fleury, Gilles Alain *see* **Rivoira, Arnaud**, 2005f:94026
Gogoshin, G. *see* **Papadakis, Manos et al.**, 2005g:42084
Gröchenig, Karlheinz (*with* Schwab, Harald) Fast local reconstruction methods for nonuniform sampling in shift-invariant spaces. (English summary) **2005e:42094**
— *see also* **Bass, Richard F.**, 2005j:94011
Hara-Mimachi, Yuko (*with* Nakao, Hidehito) An upper bound for the entropy of a substitution related to the Cantor sequence. (English summary) **2005g:37006**
Higgins, J. R. Two basic formulae of Euler and their equivalence to Tschakalov's sampling theorem. (English summary) **2005c:01013**
Hoffman, David K. *see* **Papadakis, Manos et al.**, 2005g:42084
Hogan, Jeffrey A. (*with* Lakey, Joseph D.) ★ Time-frequency and time-scale methods. **2005k:42102**
Hong, Sangjin *see* **Bolić, Miodrag et al.**, 2005h:93162
Hurst, Paul J. *see* **Prendergast, Ryan S. et al.**
Iske, Armin Adaptive irregular sampling in meshfree flow simulation. (English summary) (*see* **2005h:94001**)
Kakdiaris, I. A. *see* **Papadakis, Manos et al.**, 2005g:42084
Kempf, Achim Covariant information-density cutoff in curved space-time. (English summary) **2005h:81102**
Kivinukk, Andi (*with* Tamberg, Gert) On sampling operators defined by the Hann window and some of their extensions. (English summary) **2005e:42006**
Kouri, Donald J. *see* **Papadakis, Manos et al.**, 2005g:42084
Lakey, Joseph D. *see* **Hogan, Jeffrey A.**, 2005k:42102
Larson, David Royal *see* **Aldroubi, Akram et al.**, 2005g:42067
Levy, Bernard C. *see* **Prendergast, Ryan S. et al.**
Li, Keyong (*with* Baillieul, John) Robust quantization for digital finite communication bandwidth (DFCB) control. (English summary) **2005d:93095**
Li, Yun-Zhang A note on Gabor orthonormal bases. (English summary) **2005m:42039**
Long, Jing Fan *see* **Fang, Gen Sun**, 2005k:41085
Macià, Fabricio Wigner measures in the discrete setting: high-frequency analysis of sampling and reconstruction operators. (English summary) **2005k:94007**
Nakao, Hidehito *see* **Hara-Mimachi, Yuko**, 2005g:37006
Oberlin, Richard (*with* Street, Brian; Strichartz, Robert S.) Sampling on the Sierpinski gasket. (English summary) **2005b:28018**
Papadakis, Manos (*with* Gogoshin, G.; Kakdiaris, I. A.; Kouri, Donald J.; Hoffman, David K.) Nonseparable radial frame multiresolution analysis in multidimensions. (English summary) **2005g:42084**
Pesenson, Isaac Variational splines on Riemannian manifolds with applications to integral geometry. (English summary) **2005h:58032**
Pogány, Tibor K. Multidimensional Lagrange-Yen type interpolation via Kotel'nikov-Shannon sampling formulae. (English and Ukrainian summaries) **2005h:41006**
Popeska, Žaneta Sufficient equivalences in a sampling space. (English summary) **2005g:62009**
Prendergast, Ryan S. (*with* Levy, Bernard C.; Hurst, Paul J.) Reconstruction of band-limited periodic nonuniformly sampled signals through multirate filter banks. (English summary)
Ramlau, Ronny (*with* Teschke, Gerd) Regularization of Sobolev embedding operators and applications. I. Fourier and wavelet based methods. (English summary) **2005e:65074**
— (*with* Teschke, Gerd) Regularization of Sobolev embedding operators and applications. II. Data driven regularization and applications. (English summary) **2005k:65103**
Rivoira, Arnaud (*with* Fleury, Gilles Alain) A consistent nonparametric spectral estimator for randomly sampled signals. (English summary) **2005f:94026**
Ronse, Christian (*with* Tajine, Mohamed) Morphological sampling of closed sets. (English summary) **2005h:68162**
Rougé, Bernard *see* **Almansa, Andrés et al.**
Samadi, Saed (*with* Ahmad, M. Omair; Swamy, M. N. S.) Complete characterization of systems for simultaneous Lagrangian upsampling and fractional-sample delaying. (English summary) **2005i:93028**
Sasaki, Masahide Toward implementation of coding for quantum sources and channels. (English summary) **2005i:81031**
Schwab, Harald *see* **Gröchenig, Karlheinz**, 2005e:42094
Seip, Kristian ★ Interpolation and sampling in spaces of analytic functions. **2005c:30038**
Shtrom, D. V. The Delsarte method in the problem of the contact numbers of Euclidean spaces of high dimensions. (English summary) **2005g:43015**
Street, Brian *see* **Oberlin, Richard et al.**, 2005b:28018
Strichartz, Robert S. *see* **Oberlin, Richard et al.**, 2005b:28018
Sun, Qiyu *see* **Aldroubi, Akram et al.**, 2005d:42036
Swamy, M. N. S. *see* **Samadi, Saed et al.**, 2005i:93028
Tajine, Mohamed *see* **Ronse, Christian**, 2005h:68162
Tamberg, Gert *see* **Kivinukk, Andi**, 2005e:42006
Tang, Wai-Shing *see* **Aldroubi, Akram et al.**, 2005d:42036 *and* 2005g:42067
Teschke, Gerd *see* **Ramlau, Ronny**, 2005e:65074 *and* 2005k:65103
Thévenaz, Philippe *see* **Blu, Thierry et al.**, 2005e:94020
Unser, Michael *see* **Blu, Thierry et al.**, 2005e:94020
Weber, Eric *see* **Aldroubi, Akram et al.**, 2005g:42067
(Zayed, Ahmed I.) *see* **Sampling, wavelets, and tomography**, 2005h:94001
Zhao, Qian[1] *see* **Fleming, Michael Ian James et al.**, 2005g:94049

Items listed otherwise than by author

Sampling, wavelets, and tomography ★ Sampling, wavelets, and tomography. **2005h:94001**

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Abdel-Ghaffar, Khaled A. S. *see* **Djurdjevic, Ivana et al.**, 2005h:94027
(Alsugair, A. A.) *see* **Djonin, Dejan V.**, 2005f:94057
Alvo, M. *see* **Ratnarajah, T. et al.**, 2005m:94017
Ban, Masashi (*with* Kitajima, Sachiko; Shibata, Fumiaki) The classical capacity of a quantum dense coding system. (English summary) **2005d:94062**
Barak, Ohad (*with* Burshtein, David; Feder, Meir) Bounds on achievable rates of LDPC codes used over the binary erasure channel. (English summary)
Bhargava, Vijay K. *see* **Djonin, Dejan V.**, 2005f:94057
Bogoyavlenskaya, O. Yu. Analysis of a random flow generated by the feedback transport protocol in a data transmission network. (Russian. Russian summary) **2005d:94063**
Boyd, Stephen P. *see* **Chiang, Mung**, 2005c:94028 *and* **Yu, Wei[1] et al.**, 2005d:94065
Burshtein, David *see* **Barak, Ohad et al.**
Cai, Haixiao (*with* Kulkarni, Sanjeev R.; Verdú, Sergio) Universal entropy estimation via block sorting. (English summary) **2005g:94040a**

— *see also* **Errata:"Universal entropy estimation via block sorting", 2005g:94040b**
Caire, Giuseppe *see* **Roumy, Aline et al., 2005e:94062**
Chen, Tai-Ann *see* **Lau, Vincent K. N. et al.**
(Cheng, Roger S.) *see* **Djonin, Dejan V., 2005f:94057**
Chiang, Mung (*with* Boyd, Stephen P.) Geometric programming duals of channel capacity and rate distortion. (English summary) **2005c:94028**
Cioffi, John M. *see* **Yu, Wei[1] et al., 2005d:94065**
Cohen, Aaron S. (*with* Zamir, Ram) Unbounded loss in writing on dirty paper is possible. (English summary) **2005e:94059**
Djonin, Dejan V. (*with* Bhargava, Vijay K.) Comments on "Symmetric capacity and signal design for L-out-of-K symbol-synchronous CDMA Gaussian channels" [IEEE Trans. Inform. Theory **41** (1995), no. 4, 1072–1082] by A. A. Alsugair and R. S. Cheng. (English summary) **2005f:94057**
Djurdjevic, Ivana (*with* Xu, Jun; Abdel-Ghaffar, Khaled A. S.; Lin, Shu) A class of low-density parity-check codes constructed based on Reed-Solomon codes with two information symbols. (English summary) **2005h:94027**
Ekhanin, S. M. Improved upper bound for the redundancy of fix-free codes. (English summary)
Erez, Elona (*with* Feder, Meir) The capacity region of broadcast networks with two receivers. (English summary) **2005d:94064**
Erez, Uri (*with* Zamir, Ram) Achieving $\frac{1}{2}\log(1+\mathrm{SNR})$ on the AWGN channel with lattice encoding and decoding. (English summary)
— *see also* **Zamir, Ram, 2005e:94065**
Fan, John L. (*with* Poo, T. Lei; Marcus, Brian H.) Constraint gain. (English summary)
Feder, Meir *see* **Erez, Elona, 2005d:94064** *and* **Barak, Ohad et al.**
Fu, Fang Wei (*with* Vinck, Adrianus J.; Wei, Victor K.-W.; Yeung, Raymond W.) On the capacity of write-unidirectional memories with nonperiodic codes. (English summary) **2005g:94041**
Georgiadis, Leonidas *see* **Tsibonis, Vagelis et al., 2005f:94059**
Gerstacker, Wolfgang H. *see* **Müller, Ralf R.**
Ghrayeb, Ali *see* **Zeng, Xiang Nian**
Grant, Alex J. *see* **Rezaeian, Mohammad**
Gruber, Peter M. Optimum quantization and its applications. (English summary) **2005e:94060**
Guemghar, Souad *see* **Roumy, Aline et al., 2005e:94062**
Guillemot, Christine *see* **Marinkovic, Slavica**
Güntürk, C. Sinan One-bit sigma-delta quantization with exponential accuracy. (English summary) **2005f:94058**
Ha, Jeongseok (*with* Kim, Jaehong; McLaughlin, Steven W.) Rate-compatible puncturing of low-density parity-check codes. (English summary)
Hen, Ilan (*with* Merhav, Neri) On the threshold effect in the estimation of chaotic sequences. (English summary)
Hranilovic, Steve (*with* Kschischang, Frank R.) Capacity bounds for power- and band-limited optical intensity channels corrupted by Gaussian noise. (English summary)
Jovičić, Aleksandar (*with* Viswanath, Pramod; Kulkarni, Sanjeev R.) Upper bounds to transport capacity of wireless networks. (English summary)
Katz, Michael (*with* Shamai, Shlomo) On the capacity-achieving distribution of the discrete-time noncoherent and partially coherent AWGN channels. (English summary)
Khandani, Amir K. *see* **Lahouti, Farshad**
Kim, Jaehong *see* **Ha, Jeongseok et al.**
Kitajima, Sachiko *see* **Ban, Masashi et al., 2005d:94062**
Korepin, Vladimir (*with* Terilla, John) Thermodynamic interpretation of the quantum error correcting criterion. (English summary) **2005a:94039**
Kramer, Gerhard Outer bounds on the capacity of Gaussian interference channels. (English summary) **2005a:94040**
— Correction to: "Feedback strategies for white Gaussian interference networks", and a capacity theorem for Gaussian interference channels with feedback [IEEE Trans. Inform. Theory **48** (2002), no. 6, 1423–1438; MR1908984 (2003e:94044)].
Kschischang, Frank R. *see* **Hranilovic, Steve**
Kulkarni, Sanjeev R. *see* **Cai, Haixiao et al., 2005g:94040a**; **2005g:94040b**; **Errata:"Universal entropy estimation via block sorting", 2005g:94040b** *and* **Jovičić, Aleksandar et al.**
Lahouti, Farshad (*with* Khandani, Amir K.) Efficient source decoding over memoryless noisy channels using higher order Markov models. (English summary)
Lau, Vincent K. N. (*with* Liu, Youjian; Chen, Tai-Ann) Capacity of memoryless channels and block-fading channels with designable cardinality-constrained channel state feedback. (English summary)
Lin, Shu *see* **Djurdjevic, Ivana et al., 2005h:94027**
Liu, Youjian *see* **Lau, Vincent K. N. et al.**
Marcus, Brian H. *see* **Fan, John L. et al.**
Marinkovic, Slavica (*with* Guillemot, Christine) Joint source-channel coding based on cosine-modulated filter banks for erasure-resilient-signal transmission. (English summary)
McLaughlin, Steven W. *see* **Ha, Jeongseok et al.**
Merhav, Neri *see* **Somekh-Baruch, Anelia, 2005e:94064** *and* **Hen, Ilan**
Mıhçak, M. Kıvanç *see* **Moulin, Pierre, 2005m:94016**
Moulin, Pierre (*with* Mıhçak, M. Kıvanç) The parallel-Gaussian watermarking game. (English summary) **2005m:94016**
Müller, Ralf R. (*with* Gerstacker, Wolfgang H.) On the capacity loss due to separation of detection and decoding. (English summary)
Pfister, Henry D. *see* **Soriaga, Joseph B. et al., (2005a:94003)**
Poo, T. Lei *see* **Fan, John L. et al.**
Popescu, Otilia (*with* Rose, Christopher) Sum capacity and TSC bounds in collaborative multibase wireless systems. (English summary)
Prelov, Vyacheslav V. (*with* Verdú, Sergio) Second-order asymptotics of mutual information. (English summary)
Raj, Sibi (*with* Telatar, İ. Emre; Tse, David N. C.) Job scheduling and multiple access. (English summary) **2005e:94061**
Ratnarajah, T. (*with* Vaillancourt, Rémi; Alvo, M.) Complex random matrices and the capacity of a Rician channel. (Russian. Russian summary) **2005m:94017**
Rezaeian, Mohammad (*with* Grant, Alex J.) Computation of total capacity for discrete memoryless multiple-access channels. (English summary)
Rhee, Wonjong *see* **Yu, Wei[1] et al., 2005d:94065**
Rose, Christopher *see* **Popescu, Otilia**
Roumy, Aline (*with* Guemghar, Souad; Caire, Giuseppe; Verdú, Sergio) Design methods for irregular repeat-accumulate codes. (English summary) **2005e:94062**
Sason, Igal (*with* Urbanke, Rüdiger L.) Complexity versus performance of capacity-achieving irregular repeat-accumulate codes on the binary erasure channel. (English summary) **2005e:94063**
— On achievable rate regions for the Gaussian interference channel. (English summary) **2005g:94042**
Shamai, Shlomo *see* **Katz, Michael**
Shibata, Fumiaki *see* **Ban, Masashi et al., 2005d:94062**
Siegel, Paul H. *see* **Soriaga, Joseph B. et al., (2005a:94003)**
Somekh-Baruch, Anelia (*with* Merhav, Neri) On the capacity game of public watermarking systems. (English summary) **2005e:94064**
Soriaga, Joseph B. (*with* Pfister, Henry D.; Siegel, Paul H.) On approaching the capacity of finite-state intersymbol interference channels. (English summary) (*see* **2005a:94003**)
Su, Weifeng (*with* Xia, Xiang-Gen) Signal constellations for quasi-orthogonal space-time block codes with full diversity. (English summary)
Tassiulas, Leandros *see* **Tsibonis, Vagelis et al., 2005f:94059**
Tchamkerten, Aslan On the discreteness of capacity-achieving distributions. (English summary)
Telatar, İ. Emre *see* **Raj, Sibi et al., 2005e:94061**
Terilla, John *see* **Korepin, Vladimir, 2005a:94039**
Tse, David N. C. *see* **Raj, Sibi et al., 2005e:94061**
Tsibonis, Vagelis (*with* Georgiadis, Leonidas; Tassiulas, Leandros) Exploiting wireless channel state information for throughput maximization. (English summary) **2005f:94059**
Uchida, Osamu Maximum generating rate of variable-length Markov random sequences. (English summary) **2005a:94041**
Ulukus, Sennur (*with* Yates, Roy D.) User capacity of asynchronous CDMA systems with matched filter receivers and optimum signature sequences. (English summary)
Urbanke, Rüdiger L. *see* **Sason, Igal, 2005e:94063**
Vaillancourt, Rémi *see* **Ratnarajah, T. et al., 2005m:94017**
Verdú, Sergio *see* **Roumy, Aline et al., 2005e:94062**; **Cai, Haixiao et al., 2005g:94040a**; **2005g:94040b**; **Errata:"Universal entropy estimation via block sorting", 2005g:94040b** *and* **Prelov, Vyacheslav V.**
Vinck, Adrianus J. *see* **Fu, Fang Wei et al., 2005g:94041**
Viswanath, Pramod *see* **Jovičić, Aleksandar et al.**
Wei, Victor K.-W. *see* **Fu, Fang Wei et al., 2005g:94041**
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Xu, Jun *see* **Djurdjevic, Ivana et al., 2005h:94027**
Yates, Roy D. *see* **Ulukus, Sennur**
Yeung, Raymond W. *see* **Fu, Fang Wei et al., 2005g:94041**
Yu, Wei[1] (*with* Rhee, Wonjong; Boyd, Stephen P.; Cioffi, John M.) Iterative water-filling for Gaussian vector multiple-access channels. (English summary) **2005d:94065**
— (*with* Cioffi, John M.) Sum capacity of Gaussian vector broadcast channels. (English summary)
Zamir, Ram (*with* Erez, Uri) A Gaussian input is not too bad. (English summary) **2005e:94065**
— *see also* **Cohen, Aaron S., 2005e:94059** *and* **Erez, Uri**
Zeng, Xiang Nian (*with* Ghrayeb, Ali) Performance bounds for space-time block codes with receive antenna selection. (English summary)
Ziv, Jacob Correction to: "An efficient universal prediction algorithm for unknown sources with limited training data" [IEEE Trans. Inform. Theory **48** (2002), no. 6, 1690–1693; MR1909481 (2003f:94046)].

Items listed otherwise than by author

Errata:
"Universal entropy estimation via block sorting" Erratum to: "Universal entropy estimation via block sorting" [IEEE Trans. Inform. Theory **50** (2004), no. 7, 1551–1561; MR2095858 (2005g:94040a)] by H. Cai, S. R. Kulkarni and S. Verdú. **2005g:94040b**

Items with secondary classifications in 94A24

Angeloni, Laura (*with* Vinti, Gianluca) A unified approach to approximation results with applications to nonlinear sampling theory. (English summary) **2005j:41015**
Ball, Jonathan L. (*with* Dragan, Andrzej; Banaszek, Konrad) Exploiting entanglement in communication channels with correlated noise. (English summary) **2005d:81032**
Banaszek, Konrad *see* **Ball, Jonathan L. et al., 2005d:81032**
Barg, Alexander (*with* Zémor, Gilles) Error exponents of expander codes under linear-complexity decoding. (English summary) **2005b:94065**
Barnett, Stephen M. Optical demonstrations of statistical decision theory for quantum systems. (English summary) **2005k:81044**
Barros, João (*with* Servetto, Sergio D.) Coding theorems for the sensor reachback problem with partially cooperating nodes. (English summary) **2005g:94046**
Bjelaković, Igor (*with* Krüger, Tyll; Siegmund-Schultze, Rainer; Szkoła, Arleta) The Shannon-McMillan theorem for ergodic quantum lattice systems. (English summary) **2005g:81168**
Bleichenbacher, Daniel (*with* Kiayias, Aggelos; Yung, Moti) Decoding of interleaved Reed Solomon codes over noisy data. (English summary) **2005b:94062**
Blum, Jeremy (*with* Ding, Min; Thaeler, Andrew; Cheng, Xiuzhen) Connected dominating set in sensor networks and MANETs. (*see* **2005h:90001**)
Brehler, Matthias *see* **Dayal, Pranav et al.**
Byun, Myung-Kwang (*with* Park, Daeyoung; Lee, Byeong Gi) On the performance analysis of space-time codes in quasi-static Rayleigh-fading channels. (English summary) **2005f:94070**
Caire, Giuseppe (*with* Shamai, Shlomo) Writing on dirty tape with LDPC codes. (English summary) **2005e:94084**

— (*with* Müller, Ralf R.; Tanaka, Toshiyuki[2]) Iterative multiuser joint decoding: optimal power allocation and low-complexity implementation. (English summary) **2005e:94003**
Cheng, Xiuzhen *see* **Blum, Jeremy et al.**, (2005h:90001)
Dayal, Pranav (*with* Brehler, Matthias; Varanasi, Mahesh K.) Leveraging coherent space-time codes for noncoherent communication via training. (English summary)
Ding, Min *see* **Blum, Jeremy et al.**, (2005h:90001)
Dragan, Andrzej *see* **Ball, Jonathan L. et al.**, 2005d:81032
Elia, Nicola When Bode meets Shannon: control-oriented feedback communication schemes. (English summary) **2005d:90019**
Feder, Meir *see* **Shulman, Nadav**, 2005e:94091
Fozunbal, Majid (*with* McLaughlin, Steven W.; Schafer, Ronald W.; Landsberg, Joseph M.) On space-time coding in the presence of spatio-temporal correlation. (English summary) **2005e:94088**
Furuichi, Shigeru *see* **Yanagi, Kenjiro et al.**, 2005f:47048
Gerstel, Ornan (*with* Kutten, Shay; Matichin, Rachel; Peleg, David) Hotlink enhancement algorithms for web directories (extended abstract). (English summary) (*see* **2005c:68004**)
Giannakis, Georgios B. *see* **Ohno, Shyuichi**
Goldsmith, Andrea *see* **Jindal, Nihar et al.**, 2005d:94069
Imai, Hideki *see* **Winter, Andreas et al.**, 2005e:94217
Jain, Rahul[2] *see* **Simsek, Tunc et al.**, 2005d:93136
Javidi, Bahram *see* **Stern, Adrian**, 2005d:94013
Jindal, Nihar (*with* Vishwanath, Sriram; Goldsmith, Andrea) On the duality of Gaussian multiple-access and broadcast channels. (English summary) **2005d:94069**
Kalker, Ton *see* **Willems, Frans M. J.**, 2005f:94044
Karam, Jalal R. (*with* Karam, Marcel R.) Perfect reconstruction of hypermedia elements via filter banks. (English summary)
Karam, Marcel R. *see* **Karam, Jalal R.**
Kaya, Onur (*with* Ulukus, Sennur) Optimum power control for CDMA with deterministic sequences in fading channels. (English summary)
Kiayias, Aggelos *see* **Bleichenbacher, Daniel et al.**, 2005b:94062
Klein, Shmuel Tomi (*with* Wiseman, Yair) Parallel Lempel Ziv coding. (English summary) 2005h:68028
Krüger, Tyll *see* **Bjelaković, Igor et al.**, 2005g:81168
Kumar, Panganamala Ramana *see* **Xie, Liang-Liang**, 2005e:94008 *and* 2005e:94046
Kuriyama, Ken *see* **Yanagi, Kenjiro et al.**, 2005f:47048
Kutten, Shay *see* **Gerstel, Ornan et al.**, (2005c:68004)
Landsberg, Joseph M. *see* **Fozunbal, Majid et al.**, 2005e:94088
Lee, Byeong Gi *see* **Byun, Myung-Kwang et al.**, 2005f:94070
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McLaughlin, Steven W. *see* **Fozunbal, Majid et al.**, 2005e:94088
Müller, Ralf R. *see* **Caire, Giuseppe et al.**, 2005e:94003
Nascimento, Anderson C. A. *see* **Winter, Andreas et al.**, 2005e:94217
Ohno, Shyuichi (*with* Giannakis, Georgios B.) Capacity maximizing MMSE-optimal pilots for wireless OFDM over frequency-selective block Rayleigh-Fading channels. (English summary)
Ordentlich, Erik (*with* Roth, Ron M.) Independent sets in regular hypergraphs and multidimensional runlength-limited constraints. (English summary) **2005m:68160**
Park, Daeyoung *see* **Byun, Myung-Kwang et al.**, 2005f:94070
Peleg, David *see* **Gerstel, Ornan et al.**, (2005c:68004)
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Schafer, Ronald W. *see* **Fozunbal, Majid et al.**, 2005e:94088
Servetto, Sergio D. *see* **Barros, João**, 2005g:94046
Shamai, Shlomo *see* **Caire, Giuseppe**, 2005e:94084
Shulman, Nadav (*with* Feder, Meir) The uniform distribution as a universal prior. (English summary) **2005e:94091**
Siegmund-Schultze, Rainer *see* **Bjelaković, Igor et al.**, 2005g:81168
Simsek, Tunc (*with* Jain, Rahul[2]; Varaiya, Pravin P.) Scalar estimation and control with noisy binary observations. (English summary) **2005d:93136**
Stern, Adrian (*with* Javidi, Bahram) Shannon number and information capacity of three-dimensional integral imaging. (English summary) **2005d:94013**
Szkoła, Arleta *see* **Bjelaković, Igor et al.**, 2005g:81168
Tanaka, Toshiyuki[2] *see* **Caire, Giuseppe et al.**, 2005e:94003
Tanner, Robert Michael On graph constructions for LDPC codes by quasi-cyclic extension. (English summary) (*see* **2005a:94003**)
Thaeler, Andrew *see* **Blum, Jeremy et al.**, (2005h:90001)
Trevisan, Luca Some applications of coding theory in computational complexity. 2005k:68071
Tse, David N. C. (*with* Viswanath, Pramod) On the capacity of the multiple antenna broadcast channel. (English summary) **2005f:94043**
Ulukus, Sennur *see* **Kaya, Onur**
Varaiya, Pravin P. *see* **Simsek, Tunc et al.**, 2005d:93136
Varanasi, Mahesh K. *see* **Dayal, Pranav et al.**
Vinti, Gianluca *see* **Angeloni, Laura**, 2005j:41015
Vishwanath, Sriram *see* **Jindal, Nihar et al.**, 2005d:94069
Viswanath, Pramod *see* **Tse, David N. C.**, 2005f:94043
Weissman, Tsachy Universally attainable error exponents for rate-distortion coding of noisy sources. (English summary) **2005g:94055**
Willems, Frans M. J. (*with* Kalker, Ton) Coding theorems for reversible embedding. (English summary) **2005f:94044**
Winter, Andreas (*with* Nascimento, Anderson C. A.; Imai, Hideki) Commitment capacity of discrete memoryless channels. (English summary) **2005e:94217**
— Quantum and classical message protect identification via quantum channels. (English summary) **2005m:81073**
Wiseman, Yair *see* **Klein, Shmuel Tomi**, 2005h:68028
Xie, Liang-Liang (*with* Kumar, Panganamala Ramana) Wireless network information theory. (English summary) **2005e:94008**
— (*with* Kumar, Panganamala Ramana) A network information theory for wireless communication: scaling laws and optimal operation. (English summary) **2005e:94046**
Yanagi, Kenjiro (*with* Kuriyama, Ken; Furuichi, Shigeru) Generalized Shannon inequalities based on Tsallis relative operator entropy. (English summary) **2005f:47048**
Yung, Moti *see* **Bleichenbacher, Daniel et al.**, 2005b:94062
Zémor, Gilles *see* **Barg, Alexander**, 2005b:94065

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Ahlswede, Rudolf F. (*with* Cai, Ning) On lossless quantum data compression with a classical helper. (English summary) **2005h:94028**
Anīsīmov, Anatolīĭ V. Data coding by linear forms of number sequences. (Russian. English and Ukrainian summaries) **2005g:94043**
Astola, Jaakko T. *see* **Ryabko, B. Ya. et al.**, 2005e:94076
Avgustinovich, Sergei V. (*with* Solov'eva, Faina I.; Heden, Olof) On the problem of ranks and kernels of perfect codes. (Russian. Russian summary) **2005g:94044**
Balakirskiĭ, V. B. Coding of source messages for transmission along a channel using codes of variable word length. (Russian. Russian summary) **2005g:94045**
Baron, Dror (*with* Bresler, Yoram) An $O(N)$ semipredictive universal encoder via the BWT. (English summary)
Barros, João (*with* Servetto, Sergio D.) Coding theorems for the sensor reachback problem with partially cooperating nodes. (English summary) **2005g:94046**
Béal, Marie-Pierre Extensions of the method of poles for code construction. (English summary) **2005c:94029**
Brailovskiĭ, I. V. A new method of partial generalized interval transformations for memoryless source coding. (Russian) **2005d:94066**
Bresler, Yoram *see* **Baron, Dror**
Cai, Ning *see* **Ahlswede, Rudolf F.**, 2005h:94028
Cardinal, Jean Entropy-constrained index assignments for multiple description quantizers. (English summary) **2005a:94042**
Chang, Yanxun *see* **Ma, Shikui**
Chen, Jiangxin *see* **Halevy, Shirley et al.**, 2005e:94068
Chu, Wensong (*with* Colbourn, Charles J.; Dukes, Peter) Constructions for permutation codes in powerline communications. (English summary) **2005c:94030**
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Dumer, I. I. (*with* Pinsker, Mark Semenovich; Prelov, Vyacheslav V.) Epsilon entropy of an ellipsoid in the Hamming space. (Russian. Russian summary) **2005g:94047**
— (*with* Pinsker, Mark Semenovich; Prelov, Vyacheslav V.) An optimization problem associated with the computation of epsilon entropy of an ellipsoid in the Hamming space. (Russian. Russian summary) **2005g:94048**
Effros, Michelle (*with* Médard, Muriel; Ho, Tracey; Ray, Siddharth; Karger, David R.; Kötter, Ralf; Hassibi, Babak) Linear network codes: a unified framework for source, channel, and network coding. (English summary) **2005h:94029**
— (*with* Feng, Hanying[2]; Zeger, Kenneth) Suboptimality of the Karhunen-Loève transform for transform coding. (English summary) **2005f:94060**
— (*with* Dugatkin, Diego) Multiresolution vector quantization. (English summary)
— *see also* **Fleming, Michael Ian James et al.**, 2005g:94049
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— (*with* Yang, En-Hui) Grammar-based lossless universal refinement source coding. (English summary) **2005f:94062**
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Ogata, Wakaha (*with* Kurosawa, Kaoru) Oblivious keyword search. (English summary) **2005j:94019**
Orlitsky, Alon (*with* Santhanam, Narayana P.; Zhang, Junan) Universal compression of memoryless sources over unknown alphabets. (English summary) **2005f:94066**
— (*with* Santhanam, Narayana P.) Speaking of infinity. (English summary) **2005e:94072**
Paterson, Kenneth G. On codes with low peak-to-average power ratio for multicode CDMA. (English summary) **2005a:94045**
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Prelov, Vyacheslav V. (*with* van der Meulen, Edward C.) On the epsilon entropy of a class of ellipsoids in the Hamming space. (Russian. Russian summary) **2005g:94053**
— *see also* **Dumer, I. I. et al.**, **2005g:94047** *and* **2005g:94048**
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— (*with* Guillemot, Christine) Characterization of a class of error correcting frames for robust signal transmission over wireless communication channels. (English summary)
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Ryabko, B. Ya. (*with* Astola, Jaakko T.; Egiazarian, Karen O.) Fast codes for large alphabets. (English summary) **2005e:94076**
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Seroussi, Gadiel *see* **Martín, Alvaro et al.**, **2005g:94052**
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Shevelev, Vladimir S. *see* **Litsyn, Simon**, **2005a:94044**
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— (*with* Tjalkens, Tjalling J.; Willems, Frans M. J.) Optimal universal coding by the maximum individual relative redundancy criterion. (Russian. Russian summary) **2005e:94078**
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Takahashi, Hayato Redundancy of universal coding, Kolmogorov complexity, and Hausdorff dimension. (English summary) **2005f:94068**
Tallini, Luca G. Geometric properties of high-order spectral-null codes. (English summary) **2005e:94081**
Tian, Chao (*with* Hemami, Sheila S.) Universal multiple description scalar quantization: analysis and design. (English summary)
— (*with* Hemami, Sheila S.) Optimality and suboptimality of multiple-description vector quantization with a lattice codebook. (English summary)
Tjalkens, Tjalling J. *see* **Shtar'kov, Yu. M. et al.**, **2005e:94078**
Tsvetkov, K. Yu. *see* **Malozëmov, V. N. et al.**, **2005g:94051**
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— (*with* Vajnovszki, Vincent) Gray code for derangements. (English summary) **2005c:05011**
Berman, Piotr (*with* Karpinski, Marek; Nekrich, Yakov) Approximating Huffman codes in parallel. (English summary) (*see* **2005a:68008**)
Caire, Giuseppe (*with* Shamai, Shlomo; Verdú, Sergio) Noiseless data compression with low-density parity-check codes. (English summary) **2005d:68032**
Cheng, Jung-Fu Performance of MIMO space-time coding with discrete modulations. (English summary) (*see* **2005a:94003**)
Cordero, Elena Wavelet MRA on the interval with dilation factor M. (English summary) **2005m:42055**
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Dumer, I. I. (*with* Pinsker, Mark Semenovich; Prelov, Vyacheslav V.) On coverings of ellipsoids in Euclidean spaces. (English summary) **2005i:11087**
Evans, Robin J. *see* **Nair, Girish N.**, **2005d:93145**
Fan, John L. (*with* Poo, T. Lei; Marcus, Brian H.) Constraint gain. (English summary)
Fozunbal, Majid (*with* McLaughlin, Steven W.; Schafer, Ronald W.; Landsberg, Joseph M.) On space-time coding in the presence of spatio-temporal correlation. (English summary) **2005e:94088**
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Güntürk, C. Sinan One-bit sigma-delta quantization with exponential accuracy. (English summary) **2005f:94058**
Hen, Ilan (*with* Merhav, Neri) On the threshold effect in the estimation of chaotic sequences. (English summary)
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Nair, Girish N. (*with* Evans, Robin J.) Stabilizability of stochastic linear systems with finite feedback data rates. (English summary) **2005d:93145**
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Tatikonda, Sekhar (*with* Mitter, Sanjoy K.) Control over noisy channels. (English summary) **2005c:90015**
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Verdú, Sergio *see* **Caire, Giuseppe et al., 2005d:68032**
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Ha, Jeongseok (*with* Kim, Jaehong; McLaughlin, Steven W.) Rate-compatible puncturing of low-density parity-check codes. (English summary)
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Zhao, Wanlun (*with* Leus, Geert; Giannakis, Georgios B.) Orthogonal design of unitary constellations for uncoded and Trellis-coded noncoherent space-time systems. (English summary) **2005e:94093**

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Ban, Masashi Symmetric and asymmetric quantum channels in quantum communication systems. (English summary) **2005m:94019**
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Benachour, P. (*with* Farrell, Patrick G.; Honary, Bahram) A line code construction for the adder channel with rates higher than time-sharing. (English summary) (*see* **2005b:94001**)
Bennatan, Amir (*with* Burshtein, David) On the application of LDPC codes to arbitrary discrete-memoryless channels. (English summary) **2005d:94068**
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Bhaskar, Vidhyacharan (*with* Adjallah, Kondo Hloindo; Joiner, Laurie L.) Subspace based channel estimation for downlink W-CDMA. (English summary)
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Broydé, Frédéric (*with* Clavelier, Evelyne) A new method for the reduction of crosstalk and echo in multiconductor interconnections. (English summary)
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Byun, Myung-Kwang (*with* Park, Daeyoung; Lee, Byeong Gi) On the performance analysis of space-time codes in quasi-static Rayleigh-fading channels. (English summary) **2005f:94070**
Caire, Giuseppe (*with* Shamai, Shlomo) Writing on dirty tape with LDPC codes. (English summary) **2005e:94084**
— (*with* Tuninetti, Daniela; Verdú, Sergio) Variable-rate coding for slowly fading Gaussian multiple-access channels. (English summary)
Chen, Biao (*with* Jiang, Ruixiang; Kasetkasem, Teerasit; Varshney, Pramod K.) Channel aware decision fusion in wireless sensor networks. (English summary)
Chen, Han Wu Characterizations of Gaussian channel capacity functions. (Chinese. English and Chinese summaries)
Chen, Rong-Rong (*with* Hajek, Bruce; Kötter, Ralf; Madhow, Upamanyu) On fixed input distributions for noncoherent communication over high-SNR Rayleigh-fading channels. (English summary)
Chen, Ying-Jui (*with* Oraintara, Soontorn; Amaratunga, Kevin S.) Dyadic-based factorizations for regular paraunitary filterbanks and M-band orthogonal wavelets with structural vanishing moments. (English summary)
Cheng, Jung-Fu Performance of MIMO space-time coding with discrete modulations. (English summary) (*see* **2005a:94003**)
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— *see also* **Laneman, J. Nicholas et al.**

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Lange, Christoph[2] (*with* Ahrens, Andreas) On the undetected error probability for shortened Hamming codes on channels with memory. (English summary) (*see* **2005b:94001**)
Lau, Vincent K. N. (*with* Liu, Youjian; Chen, Tai-Ann) Capacity of memoryless channels and block-fading channels with designable cardinality-constrained channel state feedback. (English summary)
Lee, Jung-Yeun (*with* Cheon, Jung Hee; Kim, Seungjoo) An analysis of proxy signatures: is a secure channel necessary? (English summary) (*see* **2005b:94045**)
Lev, Alexandr Y. (*with* Lev, Yuliy A.; Okhrymenko, Vyacheslav N.) Non-binary block inseparable errors control codes. (English summary) (*see* **2005b:94001**)
Lev, Yuliy A. *see* **Lev, Alexandr Y. et al., (2005b:94001)**
Liao, Huiyong *see* **Wang, Genyuan et al.**
Liu, Ke[2] (*with* Kadous, Tamer; Sayeed, Akbar M.) Orthogonal time-frequency signaling over doubly dispersive channels. (English summary) **2005e:94015**
Liu, Wen An (*with* Zhang, Qi Min; Nie, Zan Kan) Optimal error-correcting codes for asymmetric channels with feedback. (Chinese. English and Chinese summaries) **2005b:94070**
Liu, Youjian *see* **Lau, Vincent K. N. et al.**
Lloyd, Seth *see* **Giovannetti, Vittorio et al., 2005e:94042**
Loubaton, Philippe *see* **Chaufray, Jean-Marie et al.**
Maccone, Lorenzo *see* **Giovannetti, Vittorio et al., 2005e:94042**
Malhamé, Roland P. *see* **Huang, Minyi et al., 2005d:93149**
Manthey, Bodo (*with* Reischuk, Rüdiger) The intractability of computing the Hamming distance. (English summary) **2005d:68052**
Marcus, Brian H. *see* **Fan, John L. et al.**
Mareels, Iven M. Y. *see* **Nair, Girish N. et al., 2005e:94050**
Marinkovic, Slavica (*with* Guillemot, Christine) Joint source-channel coding based on cosine-modulated filter banks for erasure-resilient-signal transmission. (English summary)
Marzetta, Thomas L. *see* **Hochwald, Bertrand M. et al.**
Matsumoto, Keiji[2] (*with* Yura, Fumitaka) Entanglement cost of antisymmetric states and additivity of capacity of some quantum channels. (English summary) **2005b:81015**
— *see also* **Hayashi, Masahito et al., 2005k:81048**
McIver, John K. *see* **Daffer, Sonja et al., 2005a:81271**
Médard, Muriel *see* **Effros, Michelle et al., 2005h:94029**
Merhav, Neri Achievable key rates for universal simulation of random data with respect to a set of statistical tests. (English summary) **2005b:62017**
Mıhçak, M. Kıvanç *see* **Moulin, Pierre, 2005m:94016**

Miller, Gadi *see* **Burshtein, David**
Miller, Scott L. *see* **Bouzekri, Hicham, 2005e:94263**
Mitchinson, Ben (*with* Harrison, Robert F.) Adaptive kernel-based equalization for non-stationary digital communications channels. (English summary) **2005g:94018**
Mitter, Sanjoy K. *see* **Tatikonda, Sekhar, 2005b:93105** *and* **2005c:90015**
Moran, William *see* **Nair, Girish N. et al., 2005e:94050**
Moulin, Pierre (*with* Mıhçak, M. Kıvanç) The parallel-Gaussian watermarking game. (English summary) **2005m:94016**
Moustakas, Aris L. *see* **Simon, Steven H., 2005f:94042**
Müller, Ralf R. (*with* Gerstacker, Wolfgang H.) On the capacity loss due to separation of detection and decoding. (English summary)
Nadakuditi, Raj (*with* Preisig, James C.) A channel subspace post-filtering approach to adaptive least-squares estimation. (English summary)
Nair, Girish N. (*with* Evans, Robin J.; Mareels, Iven M. Y.; Moran, William) Topological feedback entropy and nonlinear stabilization. (English summary) **2005e:94050**
Nascimento, Anderson C. A. *see* **Winter, Andreas et al., 2005e:94217**
Nicoli, Monica (*with* Spagnolini, Umberto) Reduced-rank channel estimation for time-slotted mobile communication systems. (English summary)
Nie, Zan Kan *see* **Liu, Wen An et al., 2005b:94070**
Okhrymenko, Vyacheslav N. *see* **Lev, Alexandr Y. et al., (2005b:94001)**
Oprisan, Paul (*with* Bose, Bella) On asymmetric error detection with feedback. (English summary) (*see* **2005a:94003**)
Pan, Jian-Wei *see* **Brukner, Časlav et al., 2005d:81037**
Pedrycz, Witold *see* **Han, Soowhan et al.**
Petersen, Ian R. *see* **Vũ Ngọc Phát et al., 2005f:93128** *and* **Xie, Li[1] et al., 2005i:60142**
Phoong, See-May (*with* Chang, Yubing; Chen, Chun-Yang) DFT-modulated filterbank transceivers for multipath fading channels. (English summary)
Poo, T. Lei *see* **Fan, John L. et al.**
Poor, H. Vincent *see* **Bui, Thanh Ngoc et al.**
Poulin, David *see* **Holbrook, John A. et al., 2005j:81039**
Pradhan, S. Sandeep (*with* Ramchandran, Kannan) Duality in multi-user source and channel coding. (English summary) **2005h:94031**
Prasad, Narayan[2] (*with* Varanasi, Mahesh K.) Analysis of decision feedback detection for MIMO Rayleigh-fading channels and the optimization of power and rate allocations. (English summary)
Preisig, James C. *see* **Nadakuditi, Raj**
Prelov, Vyacheslav V. (*with* Verdú, Sergio) Second-order asymptotics of mutual information. (English summary)
Raj, Sibi (*with* Telatar, İ. Emre; Tse, David N. C.) Job scheduling and multiple access. (English summary) **2005e:94061**
Ramchandran, Kannan *see* **Pradhan, S. Sandeep, 2005h:94031**
Rath, Gagan (*with* Guillemot, Christine) Characterization of a class of error correcting frames for robust signal transmission over wireless communication channels. (English summary)
Ray, Siddharth *see* **Effros, Michelle et al., 2005h:94029**
Reischuk, Rüdiger *see* **Manthey, Bodo, 2005d:68052**
Rezaeian, Mohammad (*with* Grant, Alex J.) Computation of total capacity for discrete memoryless multiple-access channels. (English summary)
Rhee, Wonjong *see* **Yu, Wei[1] et al., 2005d:94065**
Richardson, Thomas J. *see* **Bazzi, Louay et al., 2005e:94280**
Rotter, I. (*with* Sadreev, A. F.) Zeros in single-channel transmission through double quantum dots. (English summary)
Ruskai, Mary Beth *see* **Hayashi, Masahito et al., 2005k:81048**
Saad, David *see* **Kabashima, Yoshiyuki, 2005m:94052**
Sadreev, A. F. *see* **Rotter, I.**
Savkin, A. V. *see* **Vũ Ngọc Phát et al., 2005f:93128**
Sayeed, Akbar M. *see* **Liu, Ke[2] et al., 2005e:94015**
Schnoebelen, Philippe *see* **Bertrand, Nathalie, 2005c:68165**
Seroussi, Gadiel Universal types and simulation of individual sequences. (English summary) **2005f:94041**
Shamai, Shlomo *see* **Tuninetti, Daniela, 2005f:94004** *and* **Katz, Michael**
Shao, Zhen Dong (*with* Yeh, Roger K.) The $L(2,1)$-labeling and operations of graphs. (English summary) **2005i:05170**
Shapiro, Jeffrey H. *see* **Giovannetti, Vittorio et al., 2005e:94042**
Shimono, Toshiyuki *see* **Hayashi, Masahito et al., 2005k:81048**
Shirokov, Maksim Evgen′evich *see* **Kholevo, Aleksandr Semenovich, 2005j:81041**
Simon, Steven H. (*with* Moustakas, Aris L.) Optimality of beamforming in multiple transmitter multiple receiver communication systems with partial channel knowledge. (English summary) **2005f:94042**
Simsek, Tunc (*with* Jain, Rahul[2]; Varaiya, Pravin P.) Scalar estimation and control with noisy binary observations. (English summary) **2005d:93136**
Sosík, Petr *see* **Kari, Lila et al., (2005m:68009)**
Spagnolini, Umberto *see* **Nicoli, Monica**
Tanaka, Toshiyuki[2] *see* **Ikeda, Shiro et al., 2005g:94107**
Tarokh, Vahid *see* **Hochwald, Bertrand M. et al.**
Ta-Shma, Amnon (*with* Zuckerman, David) Extractor codes. (English summary) **2005f:94170**
Tatikonda, Sekhar (*with* Mitter, Sanjoy K.) Control under communication constraints. (English summary) **2005b:93105**
— (*with* Mitter, Sanjoy K.) Control over noisy channels. (English summary) **2005c:90015**
Tchamkerten, Aslan On the discreteness of capacity-achieving distributions. (English summary)
Telatar, İ. Emre *see* **Raj, Sibi et al., 2005e:94061**
Tralli, Velio *see* **Chiani, Marco et al., 2005e:94264**
Tse, David N. C. (*with* Viswanath, Pramod) On the capacity of the multiple antenna broadcast channel. (English summary) **2005f:94043**
— *see also* **Raj, Sibi et al., 2005e:94061**
Tuninetti, Daniela (*with* Shamai, Shlomo) Fading Gaussian broadcast channels with state information at the receivers. (English summary) **2005f:94004**
Ugrinovskiĭ, V. A. *see* **Xie, Li[1] et al., 2005i:60142**
Uhlmann, Armin Concurrence and foliations induced by some 1-qubit channels. (English summary) **2005h:81075**
Urbanke, Rüdiger L. *see* **Bazzi, Louay et al., 2005e:94280**
Uysal-Biyikoglu, Elif (*with* El Gamal, Abbas) On adaptive transmission for energy efficiency in wireless data networks. (English summary) **2005h:94004**
Valembois, Antoine (*with* Fossorier, Marc P. C.) Sphere-packing bounds revisited for moderate block lengths. (English summary)
Varaiya, Pravin P. *see* **Simsek, Tunc et al., 2005d:93136**
Varanasi, Mahesh K. *see* **Prasad, Narayan[2]**
Verdú, Sergio *see* **Prelov, Vyacheslav V.**
Vinck, Adrianus J. *see* **Fu, Fang Wei et al., 2005g:94041**
Vishwanath, Sriram *see* **Jindal, Nihar et al., (2005a:94003)**
Viswanath, Pramod *see* **Tse, David N. C., 2005f:94043**
Vũ Ngọc Phát (*with* Jiang, Jianming; Savkin, A. V.; Petersen, Ian R.) Robust stabilization of linear uncertain discrete-time systems via a limited capacity communication channel. (English summary) **2005f:93128**
Wang, Genyuan (*with* Liao, Huiyong; Wang, Haiquan; Xia, Xiang-Gen) Systematic and optimal cyclotomic lattices and diagonal space-time block code designs. (English summary)
Wang, Haiquan *see* **Wang, Genyuan et al.**
Wei, Victor K.-W. *see* **Fu, Fang Wei et al., 2005g:94041**
Werner, R. F. *see* **Gregoratti, M., 2005d:81049**
Winter, Andreas (*with* Nascimento, Anderson C. A.; Imai, Hideki) Commitment capacity of discrete memoryless channels. (English summary) **2005e:94217**
— Quantum and classical message protect identification via quantum channels. (English summary) **2005m:81073**
— *see also* **Cai, Ning et al., 2005m:81060** *and* **Devetak, Igor**
Wódkiewicz, Krzysztof *see* **Daffer, Sonja et al., 2005a:81271**
Xia, Xiang-Gen *see* **Wang, Genyuan et al.**
Xie, Li[1] (*with* Ugrinovskiĭ, V. A.; Petersen, Ian R.) Probabilistic distances between finite-state finite-alphabet hidden Markov models. (English summary) **2005i:60142**
Xu, Yinlong *see* **Zhou, Fengfeng et al., 2005g:68012**
Yao, Chun-Mei *see* **Gu, Yong-Jian et al., 2005j:81017**
Yeh, Roger K. *see* **Shao, Zhen Dong, 2005i:05170**
Yen, Brent J. *see* **Giovannetti, Vittorio et al., 2005e:94042**
Yeung, Raymond W. *see* **Fu, Fang Wei et al., 2005g:94041** *and* **Cai, Ning et al., 2005m:81060**
Yousefi, Shahram (*with* Khandani, Amir K.) A new upper bound on the ML decoding error probability of linear binary block codes in AWGN interference. (English summary)
Yu, Wei[1] (*with* Rhee, Wonjong; Boyd, Stephen P.; Cioffi, John M.) Iterative water-filling for Gaussian vector multiple-access channels. (English summary) **2005d:94065**
— (*with* Cioffi, John M.) Sum capacity of Gaussian vector broadcast channels. (English summary)
Yura, Fumitaka *see* **Matsumoto, Keiji[2], 2005b:81015**
Zamir, Ram *see* **Erez, Uri**
Zeilinger, Anton *see* **Brukner, Časlav et al., 2005d:81037**
Zeng, Xiang Nian (*with* Ghrayeb, Ali) Performance bounds for space-time block codes with receive antenna selection. (English summary)
Zhang, Qi Min *see* **Liu, Wen An et al., 2005b:94070**
Zhang, Rong *see* **Fang, Jian-Xing et al., 2005b:81011**
Zhou, Fengfeng (*with* Xu, Yinlong; Chen, Guo Liang[2]) No-wait scheduling in single-hop multi-channel LANs. (English summary) **2005g:68012**
Zhou, Zheng Wei[2] *see* **Gu, Yong-Jian et al., 2005j:81017**
Zhu, Shi-Qun *see* **Fang, Jian-Xing et al., 2005b:81011**
Zuckerman, David *see* **Ta-Shma, Amnon, 2005f:94170**
Żukowski, Marek *see* **Brukner, Časlav et al., 2005d:81037**

94A45 Prefix, length-variable, comma-free codes [see also 20M35, 68Q45]

Boyd, Stephen P. *see* **Gupta, Pankaj[3] et al.**
Cohn, P. M. On the factorization of codes. (English summary) **2005c:94035**
Cummings, Larry Overlaps in binary systematic codes. (English summary)
Dai, Zongduo (*with* Jiang, Shaoquan; Imamura, Kyoki; Gong, Guang) Asymptotic behavior of normalized linear complexity of ultimately nonperiodic binary sequences. (English summary)
Do Long Van *see* **Kieu Van Hung et al., 2005i:94006**
Fúster-Sabater, Amparo Aspects of pseudorandomness in nonlinear generators of binary sequences. (English summary) (*see* **2005b:68027**)
Gabidulin, Ernst M. (*with* Shorin, V. V.) New sequences with zero autocorrelation. (Russian. Russian summary)
Gong, Guang *see* **Dai, Zongduo et al.**
Gupta, Pankaj[3] (*with* Prabhakar, Balaji; Boyd, Stephen P.) Near-optimal depth-constrained codes. (English summary)
Hoffman, D. G. (*with* Johnson, Peter D., Jr.; Wilson, Nadine) Generating Huffman sequences. (English summary) **2005m:94020**
Imamura, Kyoki *see* **Dai, Zongduo et al.**
Jiang, Shaoquan *see* **Dai, Zongduo et al.**
Johnson, Peter D., Jr. *see* **Hoffman, D. G. et al., 2005m:94020**
Jürgensen, Helmut (*with* Konstantinidis, Stavros; Nguyen Huong Lâm) Asymptotically optimal low-cost solid codes. (English summary) **2005f:94075**
Karpinski, Marek (*with* Larmore, Lawrence L.; Nekrich, Yakov) Work-efficient algorithms for the construction of length-limited Huffman codes. (English summary) **2005c:94036**
Kieu Van Hung (*with* Phan Trung Huy; Do Long Van) On some classes of codes defined by binary relations. (English summary) **2005i:94006**
Konstantinidis, Stavros *see* **Jürgensen, Helmut et al., 2005f:94075**
Kurmaev, O. F. Enumerative coding of sequences with constrained length of zero runs and constrained weight. (Russian. Russian summary)
Larmore, Lawrence L. *see* **Karpinski, Marek et al., 2005c:94036**
Levenshtein, Vladimir I. Combinatorial problems motivated by comma-free codes. (English summary) **2005e:94094**

Nekrich, Yakov *see* **Karpinski, Marek et al., 2005c:94036**
Nguyen Huong Lâm *see* **Jürgensen, Helmut et al., 2005f:94075**
Niederreiter, Harald (*with* Shparlinski, Igor E.) Dynamical systems generated by rational functions. (English summary) **2005a:94047**
Parker, Matthew G. Spectrally bounded sequences, codes, and states: graph constructions and entanglement. (English summary) (*see* **2005b:94001**)
Pei, Ding Yi *see* **Wang, Liping et al.**
Phan Trung Huy *see* **Kieu Van Hung et al., 2005i:94006**
Prabhakar, Balaji *see* **Gupta, Pankaj[3] et al.**
Shorin, V. V. *see* **Gabidulin, Ernst M.**
Shparlinski, Igor E. *see* **Niederreiter, Harald, 2005a:94047**
Wang, Liping (*with* Zhu, Yue Fei; Pei, Ding Yi) On the lattice basis reduction multisequence synthesis algorithm. (English summary)
Wilson, Nadine *see* **Hoffman, D. G. et al., 2005m:94020**
Zhu, Yue Fei *see* **Wang, Liping et al.**

Items with secondary classifications in 94A45

Blanchet-Sadri, F. Codes, orderings, and partial words. (English summary) **2005i:68068**
Caire, Giuseppe (*with* Shamai, Shlomo; Verdú, Sergio) Noiseless data compression with low-density parity-check codes. (English summary) **2005d:68032**
Domaratzki, Michael Trajectory-based codes. (English summary) **2005b:68169**
— Trajectory-based embedding relations. (English summary) **2005c:68134**
Ilie, Lucian (*with* Yu, Sheng; Zhang, Kaizhong) Word complexity and repetitions in words. (English summary) **2005a:68167**
Kari, Lila (*with* Konstantinidis, Stavros) Language equations, maximality and error-detection. (English summary) **2005g:68081**
Knessl, Charles (*with* Szpankowski, Wojciech) On the number of full levels in tries. (English summary) **2005f:68023**
Konstantinidis, Stavros *see* **Kari, Lila, 2005g:68081**
Lavenda, B. H. Information and coding discrimination of pseudo-additive entropies (PAE). (English summary) **2005h:94023**
Li, Zheng-Zhu (*with* Tsai, Yen Shung; Yih, Gian-Chi) Characterizations on codes with three elements. (English summary) **2005e:68202**
Nguyen Huong Lâm Finite completion of comma-free codes. I. (English summary) **2005d:68112**
— Finite completion of comma-free codes. II. (English summary) **2005d:68113**
No, Jong-Seon New cyclic difference sets with Singer parameters constructed from d-homogeneous functions. (English summary) **2005g:05028**
Perrin, Dominique (*with* Rindone, Giuseppina) On syntactic groups. (English and French summaries) **2005d:68114**
Pippenger, Nicholas Entropy and expected acceptance counts for finite automata. (English summary) **2005b:94017**
Rindone, Giuseppina *see* **Perrin, Dominique, 2005d:68114**
Shamai, Shlomo *see* **Caire, Giuseppe et al., 2005d:68032**
Szpankowski, Wojciech *see* **Knessl, Charles, 2005f:68023**
Tsai, Yen Shung *see* **Li, Zheng-Zhu et al., 2005e:68202**
Verdú, Sergio *see* **Caire, Giuseppe et al., 2005d:68032**
Walsh, Timothy R. S. Generating Gray codes in $O(1)$ worst-case time per word. (English summary) **2005a:68155**
Wolf, Jack Keil An information-theoretic approach to bit-stuffing for network protocols. (English summary) **2005j:94020**
Yih, Gian-Chi *see* **Li, Zheng-Zhu et al., 2005e:68202**
Yu, Sheng *see* **Ilie, Lucian et al., 2005a:68167**
Zhang, Kaizhong *see* **Ilie, Lucian et al., 2005a:68167**

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Jang, Gil-Jin (*with* Lee, Te-Won) A maximum likelihood approach to single-channel source separation. (English summary)
Lee, Te-Won *see* **Jang, Gil-Jin**

Items with secondary classifications in 94A50

Aigner, Martin Variants of the majority problem. (English summary) **2005b:05003**
— The k-equal problem. (English summary) **2005m:05004**
(Giovannetti, Vittorio) *see* **Publisher's note: "Conditions for multiplicativity of maximal l_p-norms of channels for fixed integer p"**
(Lloyd, Seth) *see* **Publisher's note: "Conditions for multiplicativity of maximal l_p-norms of channels for fixed integer p"**
(Ruskai, Mary Beth) *see* **Publisher's note: "Conditions for multiplicativity of maximal l_p-norms of channels for fixed integer p"**
Wiener, Gábor Recognition problems and communication complexity. (English summary) **2005b:94003**

Items listed otherwise than by author

Publisher's note: "Conditions for multiplicativity of maximal l_p-norms of channels for fixed integer p" Publisher's note: "Conditions for multiplicativity of maximal l_p-norms of channels for fixed integer p" [J. Math. Phys. **46** (2005), no. 4, 042105, 23 pp.; MR2131221] by V. Giovannetti, S. Lloyd and M. B. Ruskai.

94A55 Shift register sequences and sequences over finite alphabets

Armand, Marc A. Multisequence shift register synthesis over commutative rings with identity with applications to decoding cyclic codes over integer residue rings. (English summary) **2005k:94015**
Arnault, François (*with* Berger, Thierry P.; Necer, Abdelkader) Feedback with carry shift registers synthesis with the Euclidean algorithm. (English summary) **2005e:94095**
Azou, S. *see* **Bouder, C. et al., 2005h:94038**
Berger, Thierry P. *see* **Arnault, François et al., 2005e:94095**
Blackburn, Simon R. (*with* Gomez-Perez, Domingo; Gutierrez, Jaime; Shparlinski, Igor E.) Predicting the inversive generator. (English summary) **2005e:94096**
Borwein, Peter B. (*with* Choi, Kwok-Kwong Stephen; Jedwab, Jonathan) Binary sequences with merit factor greater than 6.34. (English summary)
Bouder, C. (*with* Azou, S.; Burel, Gilles) Performance analysis of a spreading sequence estimator for spread spectrum transmissions. (English summary) **2005h:94038**
Burel, Gilles *see* **Bouder, C. et al., 2005h:94038**
Burman, Sanjay (*with* Sarkar, Palash) An efficient algorithm for software generation of binary linear recurrences. (English summary)
Camion, Paul (*with* Mihaljević, Miodrag J.; Imai, Hideki) Two alerts for design of certain stream ciphers: trapped LFSR and weak resilient function over GF(q). (English summary) **2005e:94097**
Carlet, Claude *see* **Klapper, Andrew, 2005a:94048**
Choi, Kwok-Kwong Stephen *see* **Borwein, Peter B. et al.**
Chu, Wensong *see* **Golomb, Solomon W., 2005c:94037**
Courtois, Nicolas T. (*with* Meier, Willi) Algebraic attacks on stream ciphers with linear feedback. (English summary) **2005e:94098**
Ding, Cunsheng *see* **Xing, Chaoping et al., 2005d:94074**
Golomb, Solomon W. (*with* Chu, Wensong) On a Boolean maximization problem. (English summary) **2005c:94037**
Gomez-Perez, Domingo *see* **Blackburn, Simon R. et al., 2005e:94096**
Goresky, Mark (*with* Klapper, Andrew) Periodicity and correlation properties of d-FCSR sequences. (English summary) **2005m:94021**
Gutierrez, Jaime *see* **Blackburn, Simon R. et al., 2005e:94096**
Harley, Thomas R. (*with* Maheshwaramurthy, G. P.) Address generators for mapping arrays in bit-reversed order. (English summary) **2005c:94038**
Helleseth, Tor (*with* Maas, Martijn; Mathiassen, John Erik; Segers, Toon) Linear complexity over F_p of Sidel'nikov sequences. (English summary)
— *see also* **Jang, Ji-Woong et al.**
Hu, Yu Pu (*with* Xiao, Guo Zhen[1]) Generalized self-shrinking generator. (English summary) **2005e:94099**
Huang, Lianzhen *see* **Lu, Peizhong, 2005d:94070**
Imai, Hideki *see* **Camion, Paul et al., 2005e:94097**
Jang, Ji-Woong (*with* Kim, Young-Sik; No, Jong-Seon; Helleseth, Tor) New family of p-ary sequences with optimal correlation property and large linear span. (English summary)
Jedwab, Jonathan *see* **Borwein, Peter B. et al.**
Kashyap, Navin (*with* Siegel, Paul H.) Equalities among capacities of (d, k)-constrained systems. (English summary) **2005b:94026**
Kim, Young-Sik *see* **Jang, Ji-Woong et al.**
Klapper, Andrew (*with* Xu, Jinzhong) Register synthesis for algebraic feedback shift registers based on non-primes. (English summary) **2005e:94100**
— (*with* Carlet, Claude) Spectral methods for cross correlations of geometric sequences. (English summary) **2005a:94048**
— Distributional properties of d-FCSR sequences. (English summary) **2005c:94039**
— *see also* **Goresky, Mark, 2005m:94021**
Kristiansen, Raymond A. (*with* Parker, Matthew G.) Binary sequences with merit factor > 6.3. (English summary)
Kumar, P. Vijay *see* **Xing, Chaoping et al., 2005d:94074**
Lahtonen, Jyrki (*with* Ling, San; Solé, Patrick; Zinov'ev, D. V.) Z_8-Kerdock codes and pseudorandom binary sequences. (English summary) **2005k:94016**
Ling, San *see* **Lahtonen, Jyrki et al., 2005k:94016**
Lu, Peizhong (*with* Huang, Lianzhen) A new correlation attack on LFSR sequences with high error tolerance. (English summary) **2005d:94070**
Maas, Martijn *see* **Helleseth, Tor et al.**
Maheshwaramurthy, G. P. *see* **Harley, Thomas R., 2005c:94038**
Maitra, Subhamoy *see* **Sarkar, Palash**
Mathiassen, John Erik *see* **Helleseth, Tor et al.**
Mayhew, Gregory L. Piecewise projections of de Bruijn weight classes. (English summary) **2005m:94022**
Meidl, Wilfried Linear complexity and k-error linear complexity for p^n-periodic sequences. (English summary) **2005d:94071**
— How many bits have to be changed to decrease the linear complexity? (English summary) **2005d:94072**
Meier, Willi *see* **Courtois, Nicolas T., 2005e:94098**
Mihaljević, Miodrag J. *see* **Camion, Paul et al., 2005e:94097**
Nakamura, Makato[3] *see* **Torii, Hideyuki et al., 2005c:94041**
Necer, Abdelkader *see* **Arnault, François et al., 2005e:94095**
Niederreiter, Harald (*with* Shparlinski, Igor E.) Periodic sequences with maximal linear complexity and almost maximal k-error linear complexity. (English summary) **2005e:94101**
— Linear complexity and related complexity measures for sequences. (English summary) (*see* **2005d:94154**)
No, Jong-Seon *see* **Jang, Ji-Woong et al.**
Parker, Matthew G. *see* **Kristiansen, Raymond A.**
Qi, Wen Feng *see* **Zhu, Xuan Yong**
Reger, Johann (*with* Schmidt, K.) Modeling and analyzing finite state automata in the finite field F_2. (English summary) **2005c:94040**
Sarkar, Palash (*with* Maitra, Subhamoy) Construction of nonlinear resilient Boolean functions using "small" affine functions. (English summary)
— *see also* **Burman, Sanjay**
Schmidt, K. *see* **Reger, Johann, 2005c:94040**
Segers, Toon *see* **Helleseth, Tor et al.**
Shen, Shi Ying (*with* Zhang, Yue Hui) Nonlinear feedback shift registers of Dynkin type D_n. (Chinese. English and Chinese summaries) **2005d:94073**
Shparlinski, Igor E. *see* **Blackburn, Simon R. et al., 2005e:94096** *and* **Niederreiter, Harald, 2005e:94101**
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Torii, Hideyuki (*with* Nakamura, Makato[3]; Suehiro, Naoki) A new class of zero-correlation zone sequences. (English summary) **2005c:94041**

Tsuneda, Akio Design of binary sequences with tunable exponential autocorrelations and run statistics based on one-dimensional chaotic maps. (English summary) **2005h:94039**
Tsypyshev, V. N. A matrix linear congruent generator over a Galois ring of odd characteristic. (Russian. Russian summary) **2005b:94027**
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Zhu, Xuan Yong (*with* Qi, Wen Feng) Compression mappings on primitive sequences over $Z/(p^e)$. (English summary)
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Zubkov, A. M. Generators of pseudorandom numbers and their applications. (Russian) (*see* **2005g:94088**)

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Boesgaard, Martin *see* **Scavenius, Ove et al., 2005e:94204**
Booth, Hilary S. (*with* MacNamara, Shevarl F.; Nielsen, Ole M.; Wilson, Susan R.) An iterative approach to determining the length of the longest common subsequence of two strings. (English summary) **2005g:60020**
Byerly, Robert E. (*with* Drager, Lance D.; Lee, Jeffrey M.) Observability of permutations, and stream ciphers. (English summary) **2005a:94011**
Cai, Kai *see* **Qiu, Wei Sheng, 2005j:05011**
Carlet, Claude (*with* Prouff, Emmanuel) On a new notion of nonlinearity relevant to multi-output pseudo-random generators. (English summary) **2005f:94085**
Chen, Lu Sheng (*with* Fu, Fang Wei; Wei, Victor K.-W.) On the constructions and nonlinearity of binary vector-output correlation-immune functions. (English summary) **2005g:94068**
Choi, Se Ah (*with* Yang, Kyeongcheol) Balanced shrinking generators. (English summary) **2005d:94094**
Christiansen, Jesper *see* **Scavenius, Ove et al., 2005e:94204**
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Cusick, Thomas W. (*with* Ding, Cunsheng; Renvall, Ari) ★ Stream ciphers and number theory. **2005f:11288**
— Polynomials over base 2 finite fields with evenly distributed values. (English summary) **2005m:11227**
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Dorfer, Gerhard (*with* Meidl, Wilfried; Winterhof, Arne) Counting functions and expected values for the lattice profile at n. (English summary) **2005f:11139**
Drager, Lance D. *see* **Byerly, Robert E. et al., 2005a:94011**
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— *see also* **Molland, Håvard et al., 2005e:94185**
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Kuz'min, A. S. (*with* Kurakin, V. L.; Markov, Viktor T.; Mikhalëv, A. V.; Nechaev, Aleksandr A.) Linear recurrent sequences and their applications. (Russian) **2005j:11010**
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Scavenius, Ove (*with* Boesgaard, Martin; Pedersen, Thomas; Christiansen, Jesper; Rijmen, Vincent) Periodic properties of counter assisted stream ciphers. (English summary) **2005e:94204**
Solé, Patrick (*with* Zinov'ev, D. V.) The most significant bit of maximum-length sequences over $\mathbb{Z}_{2^l}$: autocorrelation and imbalance. (English summary)
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Abdikalikov, K. A. Fast coding using the Chinese remainder theorem. (Russian)
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Álvarez Marañón, G. (*with* Hernández Encinas, Luis; Montoya Vitini, F.; Muñoz Masqué, J.) Cryptanalysis of a novel cryptosystem based on chaotic oscillators and feedback inversion. **2005g:94064**
— (*with* Montoya Vitini, F.; Romera, Miguel; Pastor, Gerardo) Cryptanalysis of dynamic look-up table based chaotic cryptosystems. (English summary) **2005j:94021**
— *see also* **Shahruz, S. M., 2005g:94065**
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Arbekov, I. M. Key secrecy in a quantum cryptography system that uses correcting codes. (Russian. Russian summary) **2005e:94104**
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— (*with* Mihăilescu, Preda) Generic efficient arithmetic algorithms for PAFFs (processor adequate finite fields) and related algebraic structures. (English summary) **2005f:94079**
Backes, Michael Unifying simulatability definitions in cryptographic systems under different timing assumptions (extended abstract). (English summary) **2005c:94043**
— (*with* Pfitzmann, Birgit) A cryptographically sound security proof of the Needham-Schroeder-Lowe public-key protocol. (English summary) **2005e:94106**

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— (*with* Lindell, Yehuda) Strict polynomial-time in simulation and extraction. (English summary) **2005d:94076**
Barg, Alexander (*with* Kabatyanskiĭ, G. A.) A class of I.P.P. codes with efficient identification. (English summary) **2005c:94044**
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Bellare, Mihir (*with* Kohno, Tadayoshi) A theoretical treatment of related-key attacks: RKA-PRPs, RKA-PRFs, and applications. (English summary) **2005d:94078**
— (*with* Micciancio, Daniele; Warinschi, Bogdan) Foundations of group signatures: formal definitions, simplified requirements, and a construction based on general assumptions. (English summary) **2005d:94079**
— (*with* Yee, Bennet) Forward-security in private-key cryptography. (English summary) (*see* **2005b:94045**)
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— *see also* **Barkan, Elad et al., 2005d:94077** *and* **2005e:94108**
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— (*with* De Cannière, Christophe; Braeken, An; Preneel, Bart) A toolbox for cryptanalysis: linear and affine equivalence algorithms. (English summary) **2005d:94081**
— (*with* Lano, Joseph; Preneel, Bart) Cryptanalysis of the alleged SecurID hash function. (English summary) **2005g:94066**
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Black, John (*with* Rogaway, Phillip; Shrimpton, Thomas) Black-box analysis of the block-cipher-based hash-function constructions from PGV. (English summary) **2005a:94051**
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— (*with* Gentry, Craig; Lynn, Ben; Shacham, Hovav) Aggregate and verifiably encrypted signatures from bilinear maps. (English summary) **2005d:94084**
— (*with* Mironov, Ilya; Shoup, Victor) A secure signature scheme from bilinear maps. (English summary) (*see* **2005b:94045**)
— (*with* Lynn, Ben; Shacham, Hovav) Short signatures from the Weil pairing. (English summary) **2005h:94040**
— *see also* **Advances in cryptology—CRYPTO 2003, 2005d:94151**
Boreale, Michele Symbolic trace analysis of cryptographic protocols. (English summary) (*see* **2005a:68007**)
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— (*with* Ceccato, Ambra; Rossi, Sabina) Context-sensitive equivalences for non-interference based protocol analysis. (English summary) **2005b:94028**
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Hernández Castro, Carlos Javier (*with* García Villalba, Luis Javier; Hernández Castro, Julio César; Sierra Cámara, José María) On MARS's s-boxes strength against linear cryptanalysis. (English summary) **2005j:94027**
Hernández Castro, Julio César (*with* Sierra Cámara, José María; Ribagorda, Arturo; Ramos, Benjamín; Mex-Perera, J. C.) Distinguishing TEA from a random permutation: reduced round versions of TEA do not have the SAC or do not generate random numbers. (English summary) (*see* **2005b:94001**)
— (*with* Isasi, Pedro) Finding efficient distinguishers for cryptographic mappings, with an application to the block cipher tea. (English summary)
— *see also* **Hernández Castro, Carlos Javier et al., 2005j:94027**
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— *see also* **Hattori, Mitsuhiro[2] et al., 2005e:94152**
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— (*with* Silverman, Joseph H.) Random small Hamming weight products with applications to cryptography. (English summary) **2005a:94057**
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Hong, Seokhie (*with* Kim, Jongsung; Kim, Guil; Sung, Jaechul; Lee, Changhoon[1]; Lee, Sangjin) Impossible differential attack on 30-round SHACAL-2. (English summary) (*see* **2005d:94154**)
— (*with* Hong, Deukjo; Ko, Youngdai; Chang, Donghoon; Lee, Wonil; Lee, Sangjin) Differential cryptanalysis of TEA and XTEA. (English summary) **2005f:94103**
— *see also* **Kim, Jongsung et al., 2005d:94122**; **(2005d:94154)** *and* **(2005d:94153)**
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— *see also* **Fouque, Pierre-Alain et al., 2005e:94142** *and* **Hoffstein, Jeffrey et al., (2005b:94045)**
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Hu, Han Ping[1] (*with* Liu, Shuang Hong; Wang, Zu Xi; Wu, Xiao Gang) A method for generating chaotic key stream. (Chinese. English and Chinese summaries) **2005b:94033**
Hu, Yu Pu (*with* Xiao, Guo Zhen[1]) Pseudo-randomness of the fourth class of GSS sequences. (English summary) **2005f:94104**
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Huang, Dong Wei Study on Hill-n encryption by computer algebra. (Chinese. English and Chinese summaries)
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Ishai, Yuval (*with* Kushilevitz, Eyal) Perfect constant-round secure computation via perfect randomizing polynomials. (English summary) (*see* **2005a:68008**)
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— *see also* **Kurosawa, Kaoru, 2005a:94060** *and* **(2005b:94045)**
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Karpunin, G. A. On the McEliece public-key cryptosystem based on Reed-Muller binary codes. (Russian. Russian summary) **2005c:94051**
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— (*with* Hong, Seokhie; Sung, Jaechul; Lee, Sangjin; Lim, Jong In; Sung, Soo Hak) Impossible differential cryptanalysis for block cipher structures. (English summary) (*see* **2005d:94154**)
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— *see also* **Hong, Seokhie et al.**, (**2005d:94154**)
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— (*with* Mambo, Masahiro; Zheng, Yuliang) Rethinking chosen-ciphertext security under Kerckhoffs' assumption. (English summary) (*see* **2005b:94045**)
— *see also* **Lee, Jung-Yeun et al.**, (**2005b:94045**) *and* **Yie, Ikkwon et al.**, (**2005d:94154**)
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— *see also* **Szczepański, Janusz et al.**, **2005h:94055**
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— Polynomials in the nation's service: using algebra to design the advanced encryption standard. **2005d:94124**
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— (*with* Mou, Xuanqin; Yang, Boliya L.; Ji, Zhen; Zhang, Ji Hong) Problems with a probabilistic encryption scheme based on chaotic systems. (English summary) **2005e:94177**
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Shahruz, S. M. Comments on: "Cryptanalysis of a novel cryptosystem based on chaotic oscillators and feedback inversion" [J. Sound Vibration **275** (2004), no. 1-2, 423–430; MR2086093 (2005g:94064)] by G. Álvarez Marañón, L. Hernández Encinas, F. Montoya Vitini, and J. Muñoz Masqué. **2005g:94065**
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— *see also* **Muzereau, A. et al., 2005b:94038**; **Stern, Jacques et al., 2005d:94140**; **Geißler, Katharina, 2005e:94144**; **Malone-Lee, John, 2005e:94181** *and* **Menezes, Alfred, 2005f:94113**
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Sun, Da-Zhi (*with* Cao, Zhen Fu; Sun, Yu[1]) Comment: "Cryptanalysis of Lee-Hwang-Li's key authentication scheme" [Appl. Math. Comput. **161** (2005), no. 1, 101–107; MR2111332 (2005h:94061)] by F. Zhang and K. Kim. (English summary) **2005k:94026**
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Tabatabaian, Seyed J. (*with* Ikeshiro, Sam; Gumussoy, Murat; Dhanda, Mungal S.) A new search pattern in multiple residue method (MRM) and its importance in the cryptanalysis of the RSA. (English summary) (*see* **2005b:94001**)
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— Constructing locally computable extractors and cryptosystems in the bounded-storage model. (English summary) **2005e:94211**
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Wang, Yu Min[2] *see* **Jiang, Zheng-tao et al.**
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Xiao, Lu[1] (*with* Heys, Howard M.) Hardware design and analysis of block cipher components. (English summary) (*see* **2005b:94052**)
— (*with* Heys, Howard M.) Hardware performance characterization of block cipher structures. (English summary) (*see* **2005b:94045**)
— (*with* Heys, Howard M.) A simple power analysis attack against the key schedule of the Camellia block cipher. (English summary) **2005m:94030**
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Xu, Wen Li[2] *see* **Jiang, Zheng-tao et al.**
Yalçın, Müştak E. (*with* Suykens, Johan A. K.; Vandewalle, Joos) True random bit generation from a double-scroll attractor. (English summary)
Yang, Boliya L. *see* **Li, Shujun et al.**, **2005e:94177**
Yang, Chou-Chen (*with* Wang, Ren-Chiun) Cryptanalysis of improved authenticated multiple-key agreement protocol without using conventional one-way function. (English summary) **2005h:94059**
— (*with* Wang, Ren-Chiun; Chang, Ting-Yi) An improvement of the Yang-Shieh password authentication schemes. (English summary) **2005h:94060**
Yang, Chun-De *see* **Zhang, Qing-Hua et al.**, (**2005i:42002**)
Yang, Hyungjin *see* **Kim, Jongsung et al.**, (**2005d:94153**)
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Yao, Gang (*with* Bao, Feng; Deng, Robert H.) Security analysis of three oblivious transfer protocols. (English summary) **2005d:94144**
— (*with* Wang, Guilin; Wang, Yong[4]) An improved identification scheme. (English summary) **2005e:94218**
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Yıldırım, Hamdi Murat Nonlinearity properties of the mixing operations of the block cipher IDEA. (English summary) (*see* **2005d:94154**)
Yoo, Hyeong Seon (*with* Kim, Eui Sun) Efficient inversion algorithm for optimal normal bases type II. (English summary) (*see* **2005g:65008**)
Yoo, Kee-Young *see* **Lee, Sung-Woo et al.**, **2005h:94050**; **2005h:94051**; **Kim, Kee-Won et al.**, **2005k:94021** *and* **Kim, Nam-Yeun et al.**, (**2005a:68012**)
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Yoon, Joong Chul (*with* Jung, Seok Won; Lee, Sung-Woo) Architecture for an elliptic curve scalar multiplication resistant to some side-channel attacks. (English summary) **2005f:94127**
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— (*with* Zhang, Huan Guo; Liu, He Guo) Differential characters of the advanced encryption standard. (Chinese. English and Chinese summaries) **2005d:94146**
— (*with* Fu, Jian-ming; Liu, He Guo; Zhang, Huan Guo) Trace representations of S-boxes and their application. (English summary) **2005b:94042**
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— (*with* Kim, Kwangjo) Cryptanalysis of Lee-Hwang-Li's key authentication scheme. (English summary) **2005h:94061**
— *see also* **Sun, Da-Zhi et al., 2005k:94026**
Zhang, Huan Guo *see* **Zeng, Xiang Yong et al., 2005b:94042**; **2005d:94145**; **2005d:94146** *and* **Wang, Zhang-yi et al.**
Zhang, Ji Hong *see* **Li, Shujun et al., 2005e:94177**
Zhang, Linhua (*with* Liao, Xiaofeng; Wang, Xuebing) An image encryption approach based on chaotic maps. (English summary)
Zhang, Qing-Hua (*with* Zheng, Ji-Ming; Yang, Chun-De) On the security for the fail-stop digital signatures. (English summary) (*see* **2005i:42002**)
Zhang, Rui[1] (*with* Hanaoka, Goichiro; Shikata, Junji; Imai, Hideki) On the security of multiple encryption or CCA-security + CCA-security = CCA-security? (English summary) **2005e:94221**
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Zhang, Zhang (*with* Araki, Shunsuke; Xiao, Guo Zhen[1]) Improvement of Tseng et al.'s authenticated encryption scheme with message linkages. (English summary) **2005j:94031**
Zhang, Zhanjun (*with* Man, Zhongxiao; Li, Yong) Improving Wójcik's eavesdropping attack on the ping-pong protocol. (English summary) **2005h:94062**
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— *see also* **Kim, Seungjoo et al.**, (**2005b:94001**); (**2005b:94045**) *and* **Baek, Joonsang**, (**2005d:94155**)
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Advances in cryptology—CRYPTO 2003 ★ Advances in cryptology—CRYPTO 2003. **2005d:94151**
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— ★ Public key cryptography. **2005b:94044**
— ★ Topics in cryptology—CT-RSA 2003. **2005b:94045**
— ★ Advances in cryptology—ASIACRYPT 2003. **2005d:94150**
— ★ Advances in cryptology—CRYPTO 2003. **2005d:94151**
— ★ Cryptography and coding. **2005d:94152**
— ★ Progress in cryptology—INDOCRYPT 2003. **2005d:94154**
— ★ Information security and cryptology—ICISC 2003. **2005d:94153**
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— ★ Selected areas in cryptography. **2005d:94156**
— ★ Topics in cryptology—CT-RSA 2004. **2005d:94157**
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— ★ Topics in cryptology—CT-RSA 2004. **2005d:94157**
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Topics in cryptology—CT-RSA 2003 ★ Topics in cryptology—CT-RSA 2003. **2005b:94045**
Topics in cryptology—CT-RSA 2004 ★ Topics in cryptology—CT-RSA 2004. **2005d:94157**

Items with secondary classifications in 94A60

Abadi, Martín (*with* Blanchet, Bruno) Analyzing security protocols with secrecy types and logic programs. (English summary) **2005m:68021**
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Barua, Rana (*with* Dutta, Ratna; Sarkar, Palash) Extending Joux's protocol to multi party key agreement (extended abstract). (English summary) (*see* **2005d:94154**)
Ben-Sasson, Eli (*with* Sudan, Madhu; Vadhan, Salil P.; Wigderson, Avi) Randomness-efficient low degree tests and short PCPs via epsilon-biased sets. (English summary) **2005k:68058**
— (*with* Goldreich, Oded; Harsha, Prahladh; Sudan, Madhu; Vadhan, Salil P.) Robust PCPs of proximity, shorter PCPs and applications to coding. (English summary) **2005j:68034**
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Blundo, Carlo (*with* D'Arco, Paolo; De Santis, Alfredo; Stinson, Douglas R.) New results on unconditionally secure distributed oblivious transfer (extended abstract). (English summary) **2005e:94225**
— (*with* D'Arco, Paolo; De Santis, Alfredo; Listo, Massimiliano) Design of self-healing key distribution schemes. (English summary) **2005h:94063**
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— *see also* **Chang, Ya-Fen et al.**, **2005h:94064**
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— Normal Boolean functions. (English summary) **2005g:94144**
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Chen, Li Hong *see* **Chen, Gang**[3] **et al.**
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Dam, Mads *see* **Giambiagi, Pablo**, **2005d:94169**
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Duursma, Iwan M. (*with* Lee, Hyang-Sook) Tate pairing implementation for hyperelliptic curves $y^2 = x^p - x + d$. (English summary) **2005f:14054**
Ebinger, Peter (*with* Teske, Edlyn) Factoring $N = pq^2$ with the elliptic curve method. (English summary) **2005c:11160**
Eisenträger, Kirsten (*with* Lauter, Kristin; Montgomery, Peter L.) Fast elliptic curve arithmetic and improved Weil pairing evaluation. (English summary) (*see* **2005b:94045**)
Feng, Deng Guo *see* **Li, Hong Da et al.**, **2005g:94091** *and* **Xue, Rui**, **2005h:68027**
Feng, Ke Qin (*with* Liu, Feng Mei) The number of non-zero valuation of Walsh transformation of a Boolean function. (Chinese. English and Chinese summaries) **2005m:94056**
— *see also* **Coding, cryptography and combinatorics**, **2005c:94005**
Feng, Zhi Gang[1] *see* **Chen, Gang**[3] **et al.**
Fenner, Stephen A. (*with* Fortnow, Lance; Naik, Ashish V.; Rogers, John D.) Inverting onto functions. (English summary) **2005c:68067**
Ferrara, Anna Lisa *see* **De Santis, Alfredo et al.**, **2005e:94228**
Fischer, Wieland (*with* Seifert, Jean-Pierre) Unfolded modular multiplication. (English summary) **2005e:94087**
— (*with* Seifert, Jean-Pierre) High-speed modular multiplication. (English summary) (*see* **2005d:94157**)
Flon, Stéphane (*with* Oyono, Roger) Fast arithmetic on Jacobians of Picard curves. (English summary) **2005k:14049**
(Forster, Otto) *see* **Husemöller, Dale**, **2005a:11078**
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Fujisaki, Eiichiro *see* **Damgård, Ivan Bjerre**, **2005f:94134**
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Furukawa, Jun Efficient, verifiable shuffle decryption and its requirement of unlinkability. (English summary) (*see* **2005d:94155**)
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von zur Gathen, Joachim (*with* Nöcker, Michael) Fast arithmetic with general Gaußperiods. (English summary) **2005d:11173**
— *see also* **Allender, Eric et al.**, **2005b:68119**
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— (*with* Jarecki, Stanisław; Krawczyk, Hugo; Rabin, Tal) Secure applications of Pedersen's distributed key generation protocol. (English summary) (*see* **2005b:94045**)
— *see also* **Di Raimondo, Mario**, **2005d:94165**
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Gower, Jason E. Rotations and translations of number field sieve polynomials. (English summary) **2005f:11038**
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Jeong, Ik Rae (*with* Jeong, Hee Yun; Rhee, Hyun Sook; Lee, Dong Hoon^2; Lim, Jong In) Provably secure encrypt-then-sign composition in hybrid signcryption. (English summary) (*see* **2005b:94052**)
Ji, Dong-Yao *see* **Li, Hong Da et al., 2005g:94091**
Jin, Chen Hui (*with* Li, Shi Qu) Linear approximation to composite transformations over finite fields. (Chinese. English and Chinese summaries) **2005j:11087**
Jin, Hai (*with* Sun, Jianhua; Chen, Hao; Han, Zong Fen) A risk-sensitive intrusion detection model. (English summary) (*see* **2005b:94052**)
Jonsson, Jakob (*with* Kaliski, Burton S., Jr.) On the security of RSA encryption in TLS. (English summary) **2005a:94080**
Joux, Antoine The Weil and Tate pairings as building blocks for public key cryptosystems. **2005a:14030**
Joye, Marc (*with* Quisquater, Jean-Jacques) On Rabin-type signatures. (English summary) (*see* **2005b:94001**)
— *see also* **Brier, Eric, 2005a:14029**
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— (*with* Konstantinidis, Stavros; Sosík, Petr) Substitutions, trajectories and noisy channels. (English summary) (*see* **2005m:68009**)
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— Efficient and non-malleable proofs of plaintext knowledge and applications (extended abstract). (English summary) **2005e:94237**
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Kiayias, Aggelos (*with* Yung, Moti) Secure games with polynomial expressions. (English summary) (*see* **2005a:68007**)
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Kim, Chang Hoon (*with* Kwon, Soonhak; Kim, Jong Jin; Hong, Chun Pyo) A compact and fast division architecture for a finite field GF(2^m). (English summary) **2005h:11278**
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Kim, Howon *see* **Chang, Ku-Young et al., 2005g:68205**
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Kim, Kee-Won *see* **Ryu, Eun-Kyung et al., (2005c:68004)**
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King, Brian S. A point compression method for elliptic curves defined over GF(2^n). (English summary) **2005h:14065**
Kitaev, Alexei (*with* Mayers, Dominic; Preskill, John) Superselection rules and quantum protocols. (English summary) **2005e:81044**
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— *see also* **Blakley, G. R. et al., 2005c:94024**
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Ku, Kyo-Min (*with* Ha, Kyeoung-Ju; Yoo, Kee-Young) Fast exponentiation over GF(2^m) based on cellular automata. (English summary) (*see* **2005c:00015**)
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Lafrance, Stéphane (*with* Mullins, John) An information flow method to detect denial of service vulnerabilities. (English summary)
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Lamoureux, Louis-Philippe (*with* Cerf, Nicolas J.) Asymmetric phase covariant d-dimensional cloning. (English summary) **2005i:81028**
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Lee, Hyang-Sook A self-pairing map and its applications to cryptography. (English summary) **2005b:14047**
— *see also* **Duursma, Iwan M., 2005f:14054**

Lee, Lap-Piu (*with* Wong, Kwok-Wo) A random number generator based on elliptic curve operations. (English summary) **2005g:65020**
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Lee, Mun-Kyu (*with* Kim, Yoonjeong; Park, Kunsoo; Cho, Yookun) Efficient parallel exponentiation in GF(q^n) using normal basis representations. (English summary) **2005j:11088**
Lee, Narn-Yih (*with* Lee, Ming-Feng) The security of a strong proxy signature scheme with proxy signer privacy protection. (English summary) **2005m:94033**
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Lee, Seon Ok (*with* Jung, Seok Won; Kim, Chang Han; Yoon, Janghong; Koh, Jae-Young; Kim, Daeho) Design of bit parallel multiplier with lower time complexity. (English summary) (*see* **2005d:94153**)
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Leprévost, Franck (*with* Monnerat, Jean; Varrette, Sébastien; Vaudenay, Serge) Generating anomalous elliptic curves. (English summary) **2005j:11044**
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Li, Bai Yan (*with* Yao, Wen Sheng; You, Jin Yuan) Formalizing PKI interoperability trust models with trust logic. (Chinese. English and Chinese summaries) **2005h:03038**
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— (*with* Liao, Xiaofeng; Wong, Kwok-Wo) Lag synchronization of hyperchaos with application to secure communications. (English summary)
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Li, Shi Qu *see* **Jin, Chen Hui**, **2005j:11087** *and* **Zhang, Wen Ying[1] et al.**
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Liu, Joseph K. (*with* Wei, Victor K.-W.; Wong, Duncan S.) A separable threshold ring signature scheme. (English summary) **2005f:94138**
Liu, Yu Zhen[1] (*with* Qin, Zhong-ping; Zhang, Huan Guo) An FPGA implementation of GF(p) elliptic curve cryptographic coprocessor. (English summary)
Logachëv, O. A. (*with* Sal′nikov, A. A.; Yashchenko, V. V.) ★ Булевы функции в теории кодирования и криптологии. (Russian) [Boolean functions in coding theory and cryptology] **2005g:94001**
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Martinelli, Fabio Symbolic semantics and analysis for Crypto-CCS with (almost) generic inference systems. (English summary) (*see* **2005b:68019**)
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Miller, Victor S. The Weil pairing, and its efficient calculation. (English summary) **2005g:11112**
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Möller, Bodo Improved techniques for fast exponentiation. (English summary) (*see* **2005b:94052**)
Monnerat, Jean (*with* Vaudenay, Serge) Undeniable signatures based on characters: how to sign with one bit. (English summary) (*see* **2005d:94155**)
— *see also* **Leprévost, Franck et al.**, **2005j:11044**
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Naor, Moni (*with* Reingold, Omer; Rosen, Alon) Pseudo-random functions and factoring (extended abstract). (*see* **2005i:68003**)
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Nart, Enric (*with* Sadornil, Daniel) Hyperelliptic curves of genus three over finite fields of even characteristic. (English summary) **2005a:11090**
Nascimento, Anderson C. A. (*with* Otsuka, Akira; Imai, Hideki; Müller-Quade, Jörn) Unconditionally secure homomorphic pre-distributed commitments. (English summary) **2005a:94081**
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Nosov, V. A. A brief historical sketch of the development of cryptography. (Russian) (*see* **2005g:94088**)
— *see also* **Sadovnichiĭ, Viktor Antonovich et al.**, (**2005g:94088**)
Ogata, Wakaha (*with* Kurosawa, Kaoru) Bounds for robust metering schemes and their relationship with A^2-code. (English summary) **2005f:94141**
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Podufalov, N. D. On the functions on linear spaces. (English summary) **2005j:51005**

Pomerance, Carl (*with* Shparlinski, Igor E.) Smooth orders and cryptographic applications. (English summary) **2005e:11117**
Poupard, Guillaume *see* **Fouque, Pierre-Alain, 2005e:94231**
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Rubin, Karl (*with* Silverberg, Alice) Supersingular abelian varieties in cryptology. (English summary) **2005a:14031**
— (*with* Silverberg, Alice) Algebraic tori in cryptography. (English summary) **2005g:14053**
Rubio, C. Fraile (*with* Hernández Encinas, Luis; Hoya White, S.; Martín del Rey, Ángel; Rodríguez Sánchez, G.) The use of linear hybrid cellular automata as pseudorandom bit generators in cryptography. (English summary) **2005k:65012**
Rudolph, Terry (*with* Spekkens, Robert W.) Quantum state targeting. (English summary) **2005g:81068**
Ryabko, B. Ya. (*with* Stognienko, V. S.; Shokin, Yu. I.) An adaptive χ^2 test for the discrimination of similar hypotheses with a large number of classes and its application to some cryptography problems. (Russian. Russian summary) **2005j:62041**
— (*with* Stognienko, V. S.; Shokin, Yu. I.) A new test for randomness and its application to some cryptographic problems. (English summary) **2005f:62075**
Ryu, Eun-Kyung (*with* Kim, Kee-Won; Yoo, Kee-Young) A promising key agreement protocol. (English summary) (*see* **2005c:68004**)
Sachkov, V. N. Development of combinatorial-probability directions in mathematics and cryptography. (Russian) (*see* **2005g:94088**)
Sadornil, Daniel *see* **Nart, Enric, 2005a:11090**
Sadovnichĭ, Viktor Antonovich (*with* Nosov, V. A.; Yashchenko, V. V.) Cryptography as one of the sources in the development of mathematics. (Russian) (*see* **2005g:94088**)
— *see also* **Logachëv, O. A. et al., 2005g:94001**
Saeednia, Shahrokh (*with* Kremer, Steve; Markowitch, Olivier) An efficient strong designated verifier signature scheme. (English summary) **2005g:94092**
Safavi-Naini, Reihaneh (*with* McAven, Luke; Yung, Moti) General group authentication codes and their relation to "unconditionally-secure signatures". (English summary) **2005e:94248**
— *see also* **Martin, Keith M. et al., 2005c:94066** *and* **Susilo, Willy, (2005b:94052)**
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Servedio, Rocco A. Separating quantum and classical learning. (English summary) (*see* **2005a:68007**)
Shamir, Adi *see* **Lenstra, Arjen K. et al., 2005e:11163**
Shen, Li Min (*with* Chen, Gong Liang; You, Yong Xing) Fast elliptic curve arithmetic over fields of characteristic three. (Chinese. English and Chinese summaries) **2005h:14067**
Shi, Ting Jun (*with* Ma, Jian-Feng[2]) An efficient fault-tolerant conference-key agreement protocol. (Chinese. English and Chinese summaries)
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Singh, Yumnam Kirani (*with* Parui, Swapan Kumar) Simplet and its application in signal encryption. (English summary)
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Susilo, Willy (*with* Safavi-Naini, Reihaneh) An efficient fail-stop signature scheme based on factorization. (English summary) (*see* **2005b:94052**)
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Szegedy, Mario Probabilistic verification and non-approximability. **2005i:68027**
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Vadhan, Salil P. Probabilistic proof systems. I.
— *see also* **Ben-Sasson, Eli et al., 2005j:68034** *and* **2005k:68058**
Vanackère, Vincent History-dependent scheduling for cryptographic processes. (English summary) (*see* **2005d:68013**)
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Wang, Chih-Hung Untraceable fair network payment protocols with off-line TTP. (English summary) **2005e:94249**
— (*with* Chen, Yen-Cheng) Proxy confirmation signatures. (English and Lithuanian summaries)
Wang, Guilin On the security of a group signature scheme with forward security. (English summary) **2005f:94147**
— (*with* Bao, Feng; Zhou, Jianying; Deng, Robert H.) Security analysis of some proxy signatures. (English summary) **2005f:94148**
Wang, Huaxiong (*with* Pieprzyk, Josef) Shared generation of pseudo-random functions with cumulative maps. (English summary) (*see* **2005b:94045**)
— *see also* **Martin, Keith M. et al., 2005c:94066**
Wang, Lida *see* **Kapur, Deepak et al., (2005a:68016)**
Wang, Shiuh-Jeng (*with* Chuang, Chen-Ming) Anonymous message communications with user hierarchy in a multicast system. (English summary) **2005e:68010**
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Wu, Chuan-Kun *see* **Zhang, Wen Ying[1] et al.**
Wu, Huapeng (*with* Hasan, M. Anwarul; Blake, Ian F.) Speeding up RSA and elliptic curve systems by choosing suitable moduli. (English summary) **2005e:68040**
Wu, Tzong-Sun *see* **Hsu, Chien-Lung**, **2005e:94233**
Xia, Tianbing (*with* Seberry, Jennifer; Pieprzyk, Josef; Charnes, Chris) Homogeneous bent functions of degree n in $2n$ variables do not exist for $n > 3$. (English summary) **2005b:06025**
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(Xing, Chaoping) *see* **Coding, cryptography and combinatorics**, **2005c:94005**
Xu, Lihao Dynamic group key distribution using MDS codes. (English summary) **2005b:94050**
Xu, Shouhuai (*with* Sandhu, Ravi) Two efficient and provably secure schemes for server-assisted threshold signatures. (English summary) (*see* **2005b:94045**)
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Zhang, Wen Ying[1] (*with* Wu, Chuan-Kun; Li, Shi Qu) Construction of cryptographically important Boolean permutations. (English summary)
Zhao, Yunlei (*with* Deng, Xiao Tie; Lee, Chan Hee; Zhu, Hong[1]) Resettable zero-knowledge in the weak public-key model. (English summary) **2005e:94250**
Zheng, Yong Hui (*with* Zhu, Yue Fei) Partial key exposure attack on RSA. (Chinese. English and Chinese summaries) **2005d:11177**
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Items listed otherwise than by author

Advances in cryptology—ASIACRYPT 2002 ★ Advances in cryptology—ASIACRYPT 2002. **2005c:94002**
Cirencester ★ Cryptography and coding. **2005b:94001**
Coding, cryptography and combinatorics ★ Coding, cryptography and combinatorics. **2005c:94005**
Cryptography and coding ★ Cryptography and coding. **2005b:94001**
Information security and cryptology—ICISC 2002 ★ Information security and cryptology—ICISC 2002. **2005b:94052**
Lecture Notes in Computer Science ★ Cryptography and coding. **2005b:94001**
— ★ Advances in cryptology—ASIACRYPT 2002. **2005c:94002**
— ★ Information security and cryptology—ICISC 2002. **2005b:94052**
Queenstown ★ Advances in cryptology—ASIACRYPT 2002. **2005c:94002**
Seoul ★ Information security and cryptology—ICISC 2002. **2005b:94052**

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Abe, Masayuki (*with* Cramer, Ronald; Fehr, Serge) Non-interactive distributed-verifier proofs and proving relations among commitments. (English summary) **2005d:94158**
Abrardo, Andrea (*with* Barni, Mauro) Informed watermarking by means of orthogonal and quasi-orthogonal dirty paper coding. (English summary)
Adhikari, Avishek (*with* Sikdar, Somnath) A new $(2, n)$-visual threshold scheme for color images. (English summary) (*see* **2005d:94154**)
von Ahn, Luis (*with* Blum, Manuel; Hopper, Nicholas J.; Langford, John) CAPTCHA: using hard AI problems for security. (English summary) **2005e:94222**
Alattar, Adnan M. Reversible watermark using the difference expansion of a generalized integer transform. (English summary) **2005d:94159**
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Alon, Noga (*with* Cohen, Gérard Denis; Krivelevich, Michael; Litsyn, Simon) Generalized hashing and parent-identifying codes. (English summary) **2005c:94061**
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Ambainis, Andris (*with* Shi, Yaoyun) Distributed construction of quantum fingerprints. (English summary) **2005c:94062**
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— *see also* **Shao, Jun[3] et al.**
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— *see also* **Blundo, Carlo et al., 2005d:94160**; **2005e:94226** *and* **Martí-Farré, Jaume, 2005f:94139**
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— (*with* Bao, Feng; Zhou, Jianying; Deng, Robert H.) Security analysis of some proxy signatures. (English summary) **2005f:94148**
— (*with* Bao, Feng; Zhou, Jianying) On the security of a certified e-mail scheme. (English summary)
Wang, Hong[4] (*with* Zhang, Zhen Feng[2]; Feng, Deng Guo) Robust threshold Guillou-Quisquater signature scheme. (English summary)
Wang, Huaxiong (*with* Pieprzyk, Josef) A combinatorial approach to anonymous membership broadcast. (English summary) (*see* **2005a:68012**)
— (*with* Pieprzyk, Josef) Efficient one-time proxy signatures. (English summary) **2005g:94093**
— (*with* Pieprzyk, Josef) Shared generation of pseudo-random functions with cumulative maps. (English summary) (*see* **2005b:94045**)
— *see also* **Martin, Keith M. et al.**, **2005c:94066**; **Steinfeld, Ron et al.**, **2005f:94142** *and* **Kurnio, Hartono et al.**, (**2005b:94052**)
Wang, Hui Rong (*with* Lü, Xue Qin; Liu, Huan Ping) A verifiable threshold secret sharing scheme based on the ElGamal system. (Chinese. English and Chinese summaries)
Wang, Jie[3] *see* **Han, Song et al.**, **2005a:94079**
Wang, Jilin *see* **Chen, Zewen et al.**, (**2005d:94153**)
Wang, Li-na *see* **Liu, Yi-chun et al.** *and* **Fei, Ru-chun**
Wang, Ming Qiang *see* **Ji, Jia Hui et al.**
Wang, Shao-bin (*with* Hong, Fan[1]; Zhu, Xian) Fair electronic payment scheme based on DSA. (English summary)
Wang, Shiuh-Jeng Threshold verification scheme to a valid-signature using identity only on specialized approval. (English summary) **2005b:94049**
Wang, Xiao Ming[4] (*with* Fu, Fang Wei; Zhang, Zhen) A forward secure multisignature scheme. (Chinese. English and Chinese summaries) **2005m:94037**
Wang, Xin-mei *see* **Lu, Jiqiang et al.**, **2005m:94035** *and* **Cheng, Xiang-guo et al.**
Wang, Yan *see* **Ma, Chuan-gui et al.**
Wang, Yingjie (*with* Li, Jian Hua; Tie, Ling) A simple protocol for deniable authentication based on ElGamal cryptography. (English summary) **2005m:94038**
Wang, Yu Min[2] *see* **Gao, Hu Ming et al.**, **2005e:94232**; **Wang, Changjie et al.**, **2005f:94146**; **Huang, Zhen Jie et al.**, **2005m:94032**; **Kang, Bao Yuan**; **Chen, Zewen et al.**, (**2005d:94153**); **Zhang, Jianhong et al.** *and* **Pang, Liao-jun**
Wei, Victor K.-W. *see* **Liu, Joseph K. et al.**, **2005f:94138**
Weimerskirch, André (*with* Westhoff, Dirk) Zero common-knowledge authentication for pervasive networks. (English summary) **2005f:94149**
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— (*with* Hwang, Sheng-Yu; Hwang, Tzonelih) On the unlinkability of randomization-enhanced Chaum's blind signature scheme. (English summary)
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Wong, Duncan S. *see* **Liu, Joseph K. et al.**, **2005f:94138**
Wu, Jin Hai (*with* Lin, Fu Zong) Image authentication based on digital watermarking. (Chinese. English and Chinese summaries)
Wu, Lin-Chuan (*with* Yeh, Yi-Shiung; Fan, Chun-I.) Fail-stop blind signature scheme based on the integer factorization. (English summary)
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Yang, Ke *see* **Garay, Juan A. et al.**, **2005d:94167**
Yang, Ming Fu *see* **Zhang, Ai Xin et al.**
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Yeh, Yi-Shiung *see* **Wu, Lin-Chuan et al.**
Yi, Jonghyon (*with* Lee, Chulhan; Kim, Jaihie) Online signature verification using temporal shift estimated by the phase of Gabor filter. (English summary)
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Yuan, Ding (*with* Fan, Ping Zhi) An electronic evidence and non-repudiation protocol and its formal analysis. (Chinese. English and Chinese summaries)
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Yung, Moti *see* **Katz, Jonathan[2]**, **2005e:94238**; **Safavi-Naini, Reihaneh et al.**, **2005e:94248** *and* **Kiayias, Aggelos**, (**2005a:68007**)
Zhan, Xiong Quan (*with* Hong, Jing Xin) A forward-secure digital signature scheme of elliptic curve cryptography. (Chinese. English and Chinese summaries) **2005m:94040**
Zhang, Ai Xin (*with* Yang, Ming Fu; Li, Sheng Hong[2]; Li, Jian Hua) An analysis and design logic for authentication security. (Chinese. English and Chinese summaries)
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Zhang, Huan Guo *see* **Liu, Yi-chun et al.**
Zhang, Jian Zhong *see* **He, Ye Feng**
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Zhang, Muxiang Adaptive protocol for entity authentication and key agreement in mobile networks. (English summary) (*see* **2005d:94153**)
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Zhang, Ya-juan (*with* Zhu, Yue Fei; Huang, Qiu-sheng) An identity-based key-exchange protocol. (English summary)
— *see also* **Gu, Chun-xiang et al.**

Zhang, Yi-chen *see* **Li, Ji-guo et al.**
Zhang, Yuan[3] (*with* Chung, Moon Jung; Kim, Hyun) Layer-based access control model in the manufacturing infrastructure and design automation system. (English summary) (*see* **2005d:94153**)
Zhang, Zhang (*with* Xiao, Guo Zhen[1]) New multisignature scheme for specified group of verifiers. (English summary) **2005f:94151**
Zhang, Zhen *see* **Wang, Xiao Ming[4] et al., 2005m:94037**
Zhang, Zhen Feng[2] *see* **Wang, Hong[4] et al.**
Zhao, Yunlei (*with* Deng, Xiao Tie; Lee, Chan Hee; Zhu, Hong[1]) Resettable zero-knowledge in the weak public-key model. (English summary) **2005e:94250**
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Zhou, Yuan *see* **Lu, Rong Xing et al., 2005h:94065**
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Zhu, Yue Fei *see* **Zhang, Ya-juan et al.; Lu, Hai-jun et al.** *and* **Gu, Chun-xiang et al.**
Zhu, Yue-long *see* **Li, Ji-guo et al.**

Items listed otherwise than by author

Information security and cryptology—ICISC 2002 ★ Information security and cryptology—ICISC 2002. **2005b:94052**
Lecture Notes in Computer Science ★ Information security and cryptology—ICISC 2002. **2005b:94052**
Seoul ★ Information security and cryptology—ICISC 2002. **2005b:94052**

Items with secondary classifications in 94A62

Al-Riyami, Sattam S. (*with* Paterson, Kenneth G.) Certificateless public key cryptography. (English summary) **2005f:94076**
Banerjee, Anindya[2] (*with* Naumann, David A.) Stack-based access control and secure information flow. (English summary) **2005k:68023**
(Bao, Feng) *see* **Public key cryptography—PKC 2004, 2005d:94155**
Bartoletti, Massimo (*with* Degano, Pierpaolo; Ferrari, Gian Luigi) Security-aware program transformations. (English summary) (*see* **2005b:68027**)
Bellare, Mihir (*with* Micciancio, Daniele; Warinschi, Bogdan) Foundations of group signatures: formal definitions, simplified requirements, and a construction based on general assumptions. (English summary) **2005d:94079**
Beth, Thomas (*with* Müller-Quade, Jörn; Steinwandt, Rainer) Cryptanalysis of a practical quantum key distribution with polarization-entangled photons. (English summary) **2005m:94024**
Bhargavan, Karthikeyan (*with* Fournet, Cédric; Gordon, Andrew D.) A semantics for web services authentication. (English summary) **2005m:68235**
Biham, Eli (*with* Boyer, Michel; Boykin, P. Oscar; Mor, Tal; Roychowdhury, Vwani) A proof of the security of quantum key distribution (extended abstract). (*see* **2005i:68003**)
Blanchet, Bruno (*with* Podelski, Andreas) Verification of cryptographic protocols: tagging enforces termination. (English summary) **2005m:94025**
Boldyreva, Alexandra (*with* Taesombut, Nut) Online encryption schemes: new security notions and constructions. (English summary) **2005e:94114**
Boneh, Dan (*with* Gentry, Craig; Lynn, Ben; Shacham, Hovav) Aggregate and verifiably encrypted signatures from bilinear maps. (English summary) **2005d:94084**
Borisov, Yurii Fedorovich (*with* Manev, Nickolai) Minimal codewords in linear codes. (English summary) **2005h:94068**
Boyen, Xavier Multipurpose identity-based signcryption: a Swiss Army knife for identity-based cryptography. (English summary) **2005f:94083**
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Boykin, P. Oscar *see* **Biham, Eli et al., (2005i:68003)**
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Chen, Ke-Fei *see* **Li, Xiang-xue et al.**
Chen, Zewen *see* **Gu, Limin et al., (2005d:94153)**
Cheon, Jung Hee *see* **Lee, Jung-Yeun et al., (2005b:94045)**
Choi, Kyu Young (*with* Hwang, Jung Yeon; Lee, Dong Hoon[2]) Efficient ID-based group key agreement with bilinear maps. (English summary) **2005e:94127**
Choi, Se Ah (*with* Yang, Kyeongcheol) Balanced shrinking generators. (English summary) **2005d:94094**
Cohen, Robert F. *see* **Goodrich, Michael T. et al., (2005b:94045)**
Collberg, Christian S. (*with* Kobourov, Stephen G.; Carter, Edward; Thomborson, Clark) Error-correcting graphs for software watermarking. (English summary) (*see* **2005b:05002**)
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Cramer, Ronald (*with* Damgård, Ivan Bjerre; Dziembowski, Stefan) On the complexity of verifiable secret sharing and multiparty computation. (*see* **2005i:68003**)
Crary, Karl (*with* Kliger, Aleksey; Pfenning, Frank) A monadic analysis of information flow security with mutable state. (English summary) **2005k:68018**
Crépeau, Claude (*with* Slakmon, Alain) Simple backdoors for RSA key generation. (English summary) (*see* **2005b:94045**)
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Das, Tanmoy Kanti Cryptanalysis of block based spatial domain watermarking schemes. (English summary) (*see* **2005d:94154**)
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(Deng, Robert H.) *see* **Public key cryptography—PKC 2004, 2005d:94155**
Deng, Xiao Tie *see* **Zhao, Yunlei et al., 2005a:68081**
Dent, Alexander W. Adapting the weaknesses of the random oracle model to the generic group model. (English summary) **2005d:94099**
— A designer's guide to KEMs. (English summary) **2005e:94136**
De Santis, Alfredo (*with* Masucci, Barbara) Anonymous membership broadcast schemes. (English summary) **2005h:94044**
Ding, Cunsheng (*with* Niederreiter, Harald) Systematic authentication codes from highly nonlinear functions. (English summary)
— *see also* **Tian, Xiaojian, 2005d:94142**
Dodis, Yevgeniy (*with* Oliveira, Roberto Imbuzeiro) On extracting private randomness over a public channel. (English summary) (*see* **2005b:68007**)
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Feigenbaum, Joan (*with* Ishai, Yuval; Malkin, Tal; Nissim, Kobbi; Strauss, Martin Joel; Wright, Rebecca N.) Secure multiparty computation of approximations (extended abstract). (English summary) (*see* **2005a:68007**)
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Ferrara, Anna Lisa (*with* Masucci, Barbara) An information-theoretic approach to the access control problem. (English summary) (*see* **2005b:68027**)
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Fischlin, Marc Progressive verification: the case of message authentication (extended abstract). (English summary) (*see* **2005d:94154**)
Fouque, Pierre-Alain (*with* Joux, Antoine; Martinet, Gwenaëlle; Valette, Frédéric) Authenticated on-line encryption. (English summary) **2005f:94095**
Fournet, Cédric *see* **Bhargavan, Karthikeyan et al., 2005m:68235**
Furuya, Soichi *see* **Phan, Raphael Chung-Wei, (2005b:94052)**
Galbraith, Steven D. (*with* Mao, Wenbo) Invisibility and anonymity of undeniable and confirmer signatures. (English summary) (*see* **2005b:94045**)
Gentry, Craig (*with* Silverberg, Alice) Hierarchical ID-based cryptography. (English summary) **2005d:94104**
— Certificate-based encryption and the certificate revocation problem. (English summary) **2005d:94105**
— *see also* **Boneh, Dan et al., 2005d:94084**
Ghelli, Giorgio *see* **Cardelli, Luca et al., 2005k:68145**
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Golle, Philippe (*with* Jakobsson, Markus; Juels, Ari; Syverson, Paul) Universal re-encryption for mixnets. (English summary) **2005e:94146**
Goodrich, Michael T. (*with* Tamassia, Roberto; Triandopoulos, Nikos; Cohen, Robert F.) Authenticated data structures for graph and geometric searching. (English summary) (*see* **2005b:94045**)
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Gorrieri, Roberto (*with* Martinelli, Fabio) Preface [Theoretical foundations of security analysis and design. II].
Gracia, Ignacio *see* **Padró, Carles et al., 2005d:94134**
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Imai, Hideki (*with* Müller-Quade, Jörn; Nascimento, Anderson C. A.; Tuyls, Pim; Winter, Andreas) An information theoretical model for quantum secret sharing. (English summary) **2005m:81062**
Ishai, Yuval *see* **Feigenbaum, Joan et al., (2005a:68007)**
Iwata, Tetsu (*with* Kurosawa, Kaoru) On the security of a new variant of OMAC. (English summary) (*see* **2005d:94153**)
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— *see also* **Golle, Philippe et al., 2005e:94146**
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Kushilevitz, Eyal (*with* Ostrovsky, Rafail; Rosén, Adi) Amortizing randomness in private multiparty computations. (English summary) **2005f:68061**
Lafrance, Stéphane Symbolic approach to the analysis of security protocols. (English summary)
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Lee, Hyang-Sook *see* **Lee, Young-Ran et al., 2005g:94079**
Lee, Jin-Seok *see* **Shin, Wook et al., (2005d:94153)**
Lee, Jung-Yeun (*with* Cheon, Jung Hee; Kim, Seungjoo) An analysis of proxy signatures: is a secure channel necessary? (English summary) (*see* **2005b:94045**)
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Lee, Young-Ran (*with* Lee, Hyang-Sook; Lee, Ho-Kyu) Multi-party authenticated key agreement protocols from multi-linear forms. (English summary) **2005g:94079**
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Li, Bai Yan (*with* Yao, Wen Sheng; You, Jin Yuan) Formalizing PKI interoperability trust models with trust logic. (Chinese. English and Chinese summaries) **2005h:03038**
Li, Meng Jun (*with* Li, Zhou Jun; Chen, Huo Wang) Verifying security protocols based on logic program. (Chinese. English and Chinese summaries)
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Li, Xiang-xue (*with* Chen, Ke-Fei; Li, Shi-qun) Cryptanalysis and improvement of signcryption schemes on elliptic curves. (English summary)
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Micciancio, Daniele *see* **Bellare, Mihir et al., 2005d:94079**
Min, Le-Quan (*with* Chen, Guanrong; Zhang, Xiao Dan; Zhang, Xia-Hua; Yang, Miao) Approach to generalized synchronization with application to chaos-based secure communication. (English summary)
Mitchell, Chris J. Remote user authenticaton using public information. (English summary) (*see* **2005d:94152**)
Mor, Tal *see* **Biham, Eli et al., (2005i:68003)**
Müller-Quade, Jörn *see* **Imai, Hideki et al., 2005m:81062** *and* **Beth, Thomas et al., 2005m:94024**
(Naccache, David) *see* **Public key cryptography, 2005b:94044**
Nascimento, Anderson C. A. *see* **Imai, Hideki et al., 2005m:81062**
Naumann, David A. *see* **Banerjee, Anindya[2], 2005k:68023**
Nguyen Ba An Quantum dialogue. (English summary) **2005d:81097**
Niederreiter, Harald *see* **Ding, Cunsheng**
Nissim, Kobbi *see* **Feigenbaum, Joan et al., (2005a:68007)**
Ogata, Wakaha (*with* Kurosawa, Kaoru; Stinson, Douglas R.; Saido, Hajime) New combinatorial designs and their applications to authentication codes and secret sharing schemes. (English summary) **2005e:05020**
(Okamoto, Tatsuaki) *see* **Topics in cryptology—CT-RSA 2004, 2005d:94157**
Oliveira, Roberto Imbuzeiro *see* **Dodis, Yevgeniy, (2005b:68007)**
Ostrovsky, Rafail *see* **Kushilevitz, Eyal et al., 2005f:68061**
Padró, Carles (*with* Gracia, Ignacio; Martín Molleví, Sebastià) Improving the trade-off between storage and communication in broadcast encryption schemes. (English summary) **2005d:94134**
(Paillier, Pascal) *see* **Public key cryptography, 2005b:94044**
Paterson, Kenneth G. *see* **Al-Riyami, Sattam S., 2005f:94076**
Peinado, A. Cryptanalysis of LHL-key authentication scheme. (English summary) **2005c:94054**
Pfenning, Frank *see* **Crary, Karl et al., 2005k:68018**
Phan, Raphael Chung-Wei (*with* Furuya, Soichi) Sliding properties of the DES key schedule and potential extensions to the slide attacks. (English summary) (*see* **2005b:94052**)
Pieprzyk, Josef *see* **Wang, Huaxiong, 2005f:94124**
Podelski, Andreas *see* **Blanchet, Bruno, 2005m:94025**
Pointcheval, David *see* **Stern, Jacques et al., 2005d:94140**
Reischuk, Rüdiger *see* **Jakoby, Andreas et al., 2005b:68031**
Roberds, William *see* **Kahn, Charles M. et al., 2005m:91155**
Rosén, Adi *see* **Kushilevitz, Eyal et al., 2005f:68061**
Roychowdhury, Vwani *see* **Biham, Eli et al., (2005i:68003)**
Safavi-Naini, Reihaneh *see* **Tô, Vu Dong, 2005e:68193**; **Zhang, Fang Guo et al., 2005e:94220** *and* **(2005d:94154)**
Saido, Hajime *see* **Ogata, Wakaha et al., 2005e:05020**
(Sarkar, Palash) *see* **Progress in cryptology—INDOCRYPT 2002, 2005b:94043**
Schaathun, Hans Georg (*with* Helleseth, Tor) Separating and intersecting properties of BCH and Kasami codes. (English summary) **2005d:94209**
Sella, Yaron Speeding up secure sessions establishment on the Internet. (English summary) (*see* **2005b:94052**)
Shacham, Hovav *see* **Boneh, Dan et al., 2005d:94084**
Shin, Wook (*with* Lee, Dong-Ik; Kim, Hyoung-Chun; Kang, Jung-Min; Lee, Jin-Seok) Extended role based access control and procedural restrictions. (English summary) (*see* **2005d:94153**)
Silverberg, Alice *see* **Gentry, Craig, 2005d:94104**
Slakmon, Alain *see* **Crépeau, Claude, (2005b:94045)**
Smart, Nigel P. Access control using pairing based cryptography. (English summary) (*see* **2005b:94045**)
— *see also* Stern, Jacques et al., 2005d:94140
Soriano, Miguel *see* **Fernandez, Marcel, 2005c:94083**
Steinwandt, Rainer *see* **Beth, Thomas et al., 2005m:94024**
Stern, Jacques (*with* Pointcheval, David; Malone-Lee, John; Smart, Nigel P.) Flaws in applying proof methodologies to signature schemes. (English summary) **2005d:94140**
Stinson, Douglas R. *see* **Ogata, Wakaha et al., 2005e:05020**
Strauss, Martin Joel *see* **Feigenbaum, Joan et al., (2005a:68007)**
Sun, Hung-Min (*with* Chen, Bing-Chang; Yeh, Her-Tyan) On the design of time-stamped signatures. (English summary) **2005a:68062**
Susilo, Willy *see* **Zhang, Fang Guo et al., 2005e:94220** *and* **(2005d:94154)**
Syverson, Paul *see* **Golle, Philippe et al., 2005e:94146**
Szydlo, Michael Hypercubic lattice reduction and analysis of GGH and NTRU signatures. (English summary) **2005d:94141**
— *see also* Jakobsson, Markus et al., (2005b:94045)
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Tamassia, Roberto *see* **Goodrich, Michael T. et al., (2005b:94045)**
Tapp, Alain *see* **Brassard, Gilles et al., 2005e:81022**
Thomborson, Clark *see* **Collberg, Christian S. et al., (2005b:05002)**
Tian, Xiaojian (*with* Ding, Cunsheng) A construction of authentication codes with secrecy. (English summary) **2005d:94142**
Tô, Vu Dong (*with* Safavi-Naini, Reihaneh) On the maximal codes of length 3 with the 2-identifiable parent property. (English summary) **2005e:68193**
Triandopoulos, Nikos *see* **Goodrich, Michael T. et al., (2005b:94045)**
Tsai, Piyu *see* **Chang, Chin-Chen et al.**
Tsudik, Gene (*with* Xu, Shouhuai) Accumulating composites and improved group signing. (English summary) **2005i:94011**
Tuyls, Pim *see* **Imai, Hideki et al., 2005m:81062**
Valette, Frédéric *see* **Fouque, Pierre-Alain et al., 2005f:94095**
de Vink, E. P. *see* **Hommersom, Arjen et al., 2005k:03034**
Walter, Colin D. Seeing through Mist given a small fraction of an RSA private key. (English summary) (*see* **2005b:94045**)
Wang, Guilin Security analysis of several group signature schemes. (English summary) **2005e:94215**
Wang, Huaxiong (*with* Pieprzyk, Josef) Shared generation of pseudo-random functions. (English summary) **2005f:94124**
Warinschi, Bogdan *see* **Bellare, Mihir et al., 2005d:94079**
Winter, Andreas *see* **Imai, Hideki et al., 2005m:81062**
Wright, Rebecca N. *see* **Feigenbaum, Joan et al., (2005a:68007)**
Xie, Qi (*with* Yu, Xiu Yuan) Cryptanalysis of Tseng et al.'s authenticated encryption schemes. (English summary) **2005d:94143**
Xu, Shouhuai *see* **Tsudik, Gene, 2005i:94011**
Yang, Kyeongcheol *see* **Choi, Se Ah, 2005d:94094**
Yang, Miao *see* **Min, Le-Quan et al.**
Yao, Andrew Chi-Chih On the power of quantum fingerprinting. (English summary) **2005k:81051**
— *see also* Mayers, Dominic, 2005g:81063
Yao, Wen Sheng *see* **Li, Bai Yan et al., 2005h:03038**
Yeh, Her-Tyan *see* **Sun, Hung-Min et al., 2005a:68062**
Yi, Xun Authenticated key agreement in dynamic peer groups. (English summary) **2005e:68013**
You, Jin Yuan *see* **Li, Bai Yan et al., 2005h:03038**
Yu, Xiu Yuan *see* **Xie, Qi, 2005d:94143**
Yum, Dae Hyun (*with* Lee, Pil Joong) Efficient key updating signature schemes based on IBS. (English summary) **2005e:94219**
Yung, Moti *see* **Kiayias, Aggelos, 2005d:94121**
Zhan, You-Bang Assisted cloning of an unknown two-particle entangled state. (English summary) **2005i:81024**
Zhang, Fang Guo (*with* Kim, Kwangjo) ID-based blind signature and ring signature from pairings. (English summary) **2005d:94147**
— (*with* Safavi-Naini, Reihaneh; Susilo, Willy) Efficient verifiably encrypted signature and partially blind signature from bilinear pairings. (English summary) (*see* **2005d:94154**)
— (*with* Safavi-Naini, Reihaneh; Susilo, Willy) An efficient signature scheme from bilinear pairings and its applications. (English summary) **2005e:94220**
— (*with* Kim, Kwangjo) Cryptanalysis of Lee-Hwang-Li's key authentication scheme. (English summary) **2005h:94061**
Zhang, Wei Ming[4] (*with* Li, Shi Qu; Cao, Jia; Liu, Jiu-fen) Information-theoretic analysis for the difficulty of extracting hidden information. (English summary)
Zhang, Xia-Hua *see* **Min, Le-Quan et al.**
Zhang, Xiao Dan *see* **Min, Le-Quan et al.**

Zhao, Yunlei (*with* Deng, Xiao Tie; Lee, Chan Hee; Zhu, Hong[1]) Reduction zero-knowledge. (English summary) **2005a:68081**
(Zheng, Yuliang) *see* **Advances in cryptology—ASIACRYPT 2002, 2005c:94002**
(Zhou, Jianying) *see* **Public key cryptography—PKC 2004, 2005d:94155**
Zhu, Hong[1] *see* **Zhao, Yunlei et al., 2005a:68081**
Zhu, Huafei Constructing committed signatures from strong-RSA assumption in the standard complexity model. (English summary) (*see* **2005d:94155**)

Items listed otherwise than by author

Advances in cryptology—ASIACRYPT 2002 ★ Advances in cryptology—ASIACRYPT 2002. **2005c:94002**
Advances in cryptology—ASIACRYPT 2003 ★ Advances in cryptology—ASIACRYPT 2003. **2005d:94150**
Hyderabad ★ Progress in cryptology—INDOCRYPT 2002. **2005b:94043**
Lecture Notes in Computer Science ★ Progress in cryptology—INDOCRYPT 2002. **2005b:94043**
— ★ Public key cryptography. **2005b:94044**
— ★ Advances in cryptology—ASIACRYPT 2002. **2005c:94002**
— ★ Advances in cryptology—ASIACRYPT 2003. **2005d:94150**
— ★ Progress in cryptology—INDOCRYPT 2003. **2005d:94154**
— ★ Public key cryptography—PKC 2004. **2005d:94155**
— ★ Topics in cryptology—CT-RSA 2004. **2005d:94157**
New Delhi ★ Progress in cryptology—INDOCRYPT 2003. **2005d:94154**
Paris ★ Public key cryptography. **2005b:94044**
Progress in cryptology—INDOCRYPT 2002 ★ Progress in cryptology—INDOCRYPT 2002. **2005b:94043**
Progress in cryptology—INDOCRYPT 2003 ★ Progress in cryptology—INDOCRYPT 2003. **2005d:94154**
Public key cryptography ★ Public key cryptography. **2005b:94044**
Public key cryptography—PKC 2004 ★ Public key cryptography—PKC 2004. **2005d:94155**
Queenstown ★ Advances in cryptology—ASIACRYPT 2002. **2005c:94002**
San Francisco, CA ★ Topics in cryptology—CT-RSA 2004. **2005d:94157**
Singapore ★ Public key cryptography—PKC 2004. **2005d:94155**
Taipei ★ Advances in cryptology—ASIACRYPT 2003. **2005d:94150**
Topics in cryptology—CT-RSA 2004 ★ Topics in cryptology—CT-RSA 2004. **2005d:94157**

94A99 None of the above, but in this section

Items with secondary classifications in 94A99

Katona, Gyula O. H. Strong qualitative independence. (English summary) **2005b:05018**
Khrennikov, Andrei Yu. ★ Неархимедов анализ и его приложения. (Russian) [Non-Archimedean analysis and its applications] **2005c:46111**

94Bxx Theory of error-correcting codes and error-detecting codes

Hiramatsu, Toyokazu (*with* Köhler, Günter[1]) ★ Coding theory and number theory. **2005f:94152**
Köhler, Günter[1] *see* **Hiramatsu, Toyokazu, 2005f:94152**

Items with secondary classifications in 94Bxx

Bierbrauer, Jürgen ★ Introduction to coding theory. **2005f:94001**
(Feng, Ke Qin) *see* **Coding, cryptography and combinatorics, 2005c:94005**
Høholdt, Tom *see* **Justesen, Jørn, 2005e:94001**
Humphreys, J. F. (*with* Prest, M. Y.) ★ Numbers, groups and codes. **2005d:00002**
Jain, Surender Kumar *see* **Nagpaul, S. R., 2005m:94002**
Justesen, Jørn (*with* Høholdt, Tom) ★ A course in error-correcting codes. **2005e:94001**
(Kac, Mark) *see* **McEliece, Robert J., 2005m:94001**
Ling, San (*with* Xing, Chaoping) ★ Coding theory. **2005c:94001**
Martin, Bruno ★ Codage, cryptologie et applications. (French) [Coding, cryptology and applications] **2005j:94001**
McEliece, Robert J. ★ The theory of information and coding. **2005m:94001**
Nagpaul, S. R. (*with* Jain, Surender Kumar) ★ Topics in applied abstract algebra. **2005m:94002**
(Niederreiter, Harald) *see* **Coding, cryptography and combinatorics, 2005c:94005**
(Paterson, Kenneth G.) *see* **Cryptography and coding, 2005d:94152**
Prest, M. Y. *see* **Humphreys, J. F., 2005d:00002**
(Vaudenay, Serge) *see* **Martin, Bruno, 2005j:94001**
Xing, Chaoping *see* **Ling, San, 2005c:94001** *and* **Coding, cryptography and combinatorics, 2005c:94005**

Items listed otherwise than by author

Cirencester ★ Cryptography and coding. **2005d:94152**
Coding, cryptography and combinatorics ★ Coding, cryptography and combinatorics. **2005c:94005**
Cryptography and coding ★ Cryptography and coding. **2005d:94152**
Lecture Notes in Computer Science ★ Cryptography and coding. **2005d:94152**

94B05 Linear codes, general

Avedillo, María J. *see* **Quintana, José María et al., 2005b:94057**
Avgustinovich, Sergei V. (*with* Solov′eva, Faina I.) On the metric rigidity of binary codes. (Russian. Russian summary)
— (*with* Heden, Olof; Solov′eva, Faina I.) The classification of some perfect codes. (English summary) **2005a:94083**
Bachoc, Christine (*with* Gaborit, Philippe) Designs and self-dual codes with long shadows. (English summary) **2005a:94084**
Baicheva, Tsonka (*with* Gancheva, Irina) Ternary cyclic and negacyclic LUEP codes of lengths up to 26. (English summary) **2005c:94067**
— (*with* Bouyukliev, Iliya; Dodunekov, Stefan M.; Willems, Wolfgang) Teaching linear codes. (English summary)
Bannai, Eiichi (*with* Harada, Masaaki; Ibukiyama, T.; Munemasa, Akihiro; Oura, M.) Type II codes over $\mathbb{F}_2 + u\mathbb{F}_2$ and applications to Hermitian modular forms. **2005a:94085**
Ben-Sasson, Eli (*with* Goldreich, Oded; Sudan, Madhu) Bounds on 2-query codeword testing. (English summary) **2005d:94188**
Bereg, Sergei (*with* Kelarev, Andrei V.; Salagean-Mandache, Ana Maria) Directed graphs and minimum distances of error-correcting codes in matrix rings. (English summary) **2005i:94016**
Bertolo, Riccardo (*with* Östergård, Patric R. J.; Weakley, William D.) An updated table of binary/ternary mixed covering codes. (English summary) **2005a:94086**
Betsumiya, Koichi (*with* Harada, Masaaki) Optimal self-dual codes over $\mathbb{F}_2 \times \mathbb{F}_2$ with respect to the Hamming weight. (English summary) **2005a:94087**
Blokhuis, Aart (*with* Brouwer, Andries E.) Small additive quaternary codes. (English summary) **2005c:94068**
Bogdanova, G. T. (*with* Kapralov, S. N.) Enumeration of optimal ternary codes with a given composition. (Russian. Russian summary)
Borisov, Yurii Fedorovich (*with* Manev, Nickolai) Minimal codewords in linear codes. (English summary) **2005h:94068**
Bouyukliev, Iliya (*with* Grassl, Markus; Varbanov, Zlatko) New bounds for $n_4(k, d)$ and classification of some optimal codes over GF(4). (English summary) **2005g:94094**
— *see also* **Baicheva, Tsonka et al.**
Boyarinov, I. M. (*with* Martin, Ian; Honary, Bahram) A class of composite codes with minimal distance 8. (Russian. Russian summary) **2005g:94095**
Braun, Michael Construction of linear codes with large minimum distance. (English summary) **2005e:94251**
Brouwer, Andries E. *see* **Blokhuis, Aart, 2005c:94068**
Buyuklieva, Stefka Some optimal self-orthogonal and self-dual codes. (English summary) **2005e:94252**
— (*with* Ruseva, Radka; Yankov, Nikolay) Binary self-dual codes having an automorphism of order p^2. (English summary) **2005h:94069**
Chang, Dong Mei (*with* Xin, Xiao Long) Algebraic structures of general period for linear codes. (Chinese. English and Chinese summaries)
Chen, Wen De (*with* Kløve, Torleiv) Finite projective geometries and classification of the weight hierarchies of codes. I. (English summary) **2005d:94189**
— (*with* Kløve, Torleiv) On the second greedy weight for linear codes of dimension at least 4. (English summary) **2005a:94088**
— (*with* Kløve, Torleiv) On the second greedy weight for linear codes satisfying the fullrank condition. (English summary) **2005j:94035**
— *see also* **Liu, Zihui, 2005a:94100**
Choie, Young Ju (*with* Dougherty, Steven T.) Codes over Σ_{2m} and Jacobi forms over the quaternions. (English summary) **2005g:94096**
Chong, Chan Vee (*with* Venkataramani, Raman; Tarokh, Vahid) Correction to: "A new construction of 16-QAM Golay complementary sequences" [IEEE Trans. Inform. Theory **49** (2003), no. 11, 2953–2959; MR2027571 (2004k:94081)].
Chu, Wensong (*with* Colbourn, Charles J.; Dukes, Peter) Tables for constant composition codes. (English summary)
Chung, Fan (*with* Cooper, Joshua N.) De Bruijn cycles for covering codes. (English summary) **2005f:94153**
Colbourn, Charles J. *see* **Chu, Wensong et al.**
Cooper, Joshua N. *see* **Chung, Fan, 2005f:94153**
Cui, Jie[1] (*with* Pei, Junying) Generalized MacWilliams identities for $\mathbb{Z}_4$-linear codes. (English summary)
Dalan, Daniel B. Extremal binary self-dual codes of lengths 42 and 44 with new weight enumerators. (English summary) **2005a:94089**
Daneshgaran, Fred (*with* Mondin, Marina; Mulassano, Paolo) Linear subcodes of turbo codes with improved distance spectra. (English summary)
Daskalov, R. N. (*with* Gulliver, T. Aaron) New bounds for the minimum distance of linear codes over small fields. (Russian. Russian summary) **2005e:94253**
— (*with* Hristov, Plamen) New quasicyclic degenerate linear codes over GF(8). (Russian. Russian summary)
— (*with* Metodieva, Elena) The nonexistence of ternary [105, 6, 68] and [230, 6, 152] codes. (English summary) **2005c:94069**
— (*with* Metodieva, Elena; Hristov, Plamen) New bounds for the minimal distance of linear codes over GF(9). (Russian. Russian summary)
— (*with* Metodieva, Elena) On the nonexistence of ternary [284, 6, 188] codes. (Russian. Russian summary) **2005e:94254**
Davydov, Aleksandr A. (*with* Marcugini, Stefano; Pambianco, Fernanda) Linear codes with covering radius 2, 3 and saturating sets in projective geometry. (English summary) **2005a:94090**
Delsarte, Philippe Beyond the orthogonal array concept. (English summary) **2005g:94097**
Dey, Partha Pratim Exploring invariant linear codes through generators and centralizers. (English summary) **2005i:94017**
Dinh, Hai Quang (*with* López-Permouth, Sergio R.) On the equivalence of codes over rings and modules. (English summary) **2005g:94098**
Dodunekov, Stefan M. *see* **Dontcheva, Radinka A. et al., 2005a:94091**; **Dodunekova, Rositsa D.** *and* **Baicheva, Tsonka et al.**
Dodunekova, Rositsa D. (*with* Dodunekov, Stefan M.) t-good and t-proper linear error correcting codes. (English summary)
— Generalized binomial moments of a linear code, and the probability of undetected errors. (Russian. Russian summary) **2005e:94255**
Dong, Xue Dong (*with* Soh, Cheong Boon; Gunawan, Erry) On codes from cyclotomic fields for multidimensional signals. (English summary) **2005j:94036**
Dontcheva, Radinka A. (*with* van Zanten, A. J.; Dodunekov, Stefan M.) Binary self-dual codes with automorphisms of composite order. (English summary) **2005a:94091**
Dougherty, Steven T. A new construction of self-dual codes from projective planes. (English summary) **2005m:94041**
— *see also* **Choie, Young Ju, 2005g:94096**
Dukes, Peter *see* **Chu, Wensong et al.**
Esmaeili, Morteza (*with* Gulliver, T. Aaron) On the structure of optimal linear block codes

of length a multiple of 4 and $d = 4$. (English summary)
— (*with* Yazdani, M. R.; Gulliver, T. Aaron) Optimal binary linear codes containing the $[6, 5, 2] \otimes [3, 1, 3]$ product code. (English summary) **2005k:94033**
Fan, Yun (*with* Liu, Hongwei[1]) On self-orthogonal integral table algebra codes. (Chinese. English and Chinese summaries) **2005m:94042**
Fang, Yang *see* **Xing, Chaoping**
Fossorier, Marc P. C. *see* **Weber, Jos H.**
Gaborit, Philippe *see* **Bachoc, Christine, 2005a:94084**
Galand, F. On the minimum distance of some families of $\mathbb{Z}_{2^k}$-linear codes. (English summary) **2005a:94092**
Gancheva, Irina *see* **Baicheva, Tsonka, 2005c:94067**
Gashkov, I. B. Error correcting codes with Mathematica. (English summary) (*see* **2005c:00014**)
— *see also* **Kazarin, L. S. et al., 2005b:94053**
Georgiou, Stelios (*with* Koukouvinos, Christos) Self-orthogonal and self-dual codes constructed via combinatorial designs and Diophantine equations. (English summary) **2005e:94256**
Goldreich, Oded *see* **Ben-Sasson, Eli et al., 2005d:94188**
González-Sarabia, M. (*with* Rentería Márquez, Carlos; Hernández de la Torre, M. A.) Minimum distance and second generalized Hamming weight of two particular linear codes. (English summary) **2005a:94093**
Goodwin, Vanere (*with* Ivorgov, Vasil I.) New extremal self-dual doubly-even binary codes of length 88. (English summary) **2005h:94070**
Grassl, Markus *see* **Bouyukliev, Iliya et al., 2005g:94094**
Greferath, Marcus (*with* Nechaev, Aleksandr A.; Wisbauer, Robert) Finite quasi-Frobenius modules and linear codes. (English summary) **2005g:94099**
Gueye, Cheikh Thiécoumba (*with* Sanghare, Mamadou) Affine invariant codes over Z_4 and their binary image. (English summary)
Gulliver, T. Aaron (*with* Östergård, Patric R. J.) Binary optimal linear rate 1/2 codes. (English summary) **2005a:94094**
— (*with* Harada, Masaaki; Kim, Jon-Lark) Erratum to: "Construction of new extremal self-dual codes" [Discrete Math. **263** (2003), no. 1-3, 81–91; MR1955716 (2003m:94083)]. **2005h:94071**
— *see also* **Daskalov, R. N., 2005e:94253** *and* **Esmaeili, Morteza et al., 2005k:94033**
Gunawan, Erry *see* **Dong, Xue Dong et al., 2005j:94036**
Gupta, Manish K. On $\mathbb{Z}_4$ codes satisfying the chain condition. (English summary) **2005m:94043**
Guruswami, Venkatesan Limits to list decodability of linear codes. (English summary) (*see* **2005i:68004**)
Harada, Masaaki (*with* Munemasa, Akihiro; Tanabe, Kenichiro) Extremal self-dual $[40, 20, 8]$ codes with covering radius 7. (English summary) **2005d:94190**
— (*with* Kitazume, Masaaki; Munemasa, Akihiro) On a 5-design related to an extremal doubly even self-dual code of length 72. (English summary) **2005c:94070**
— (*with* Kitazume, Masaaki; Munemasa, Akihiro; Venkov, Boris B.) On some self-dual codes and unimodular lattices in dimension 48. (English summary) **2005m:94044**
— *see also* **Bannai, Eiichi et al., 2005a:94085**; **Betsumiya, Koichi, 2005a:94087** *and* **Gulliver, T. Aaron et al., 2005h:94071**
Heden, Olof On the faces problem for perfect codes. (English summary) **2005a:94095**
— On the symmetry group of perfect 1-error correcting binary codes. (English summary) **2005j:94037**
— *see also* **Avgustinovich, Sergei V. et al., 2005a:94083**
Helleseth, Tor (*with* Kløve, Torleiv; Levenshtein, Vladimir I.) The simplex codes and other even-weight binary linear codes for error correction. (English summary)
— (*with* Lahtonen, Jyrki; Ranto, Kalle) A simple proof to the minimum distance of Z_4-linear Goethals-like codes. (English summary) **2005c:94071**
— *see also* **Zinov′ev, V. A., 2005e:94262**
Hernández de la Torre, M. A. *see* **González-Sarabia, M. et al., 2005a:94093**
Honary, Bahram *see* **Boyarinov, I. M. et al., 2005g:94095**
Honkala, Iiro (*with* Laihonen, Tero; Ranto, Sanna) On locating-dominating codes in binary Hamming spaces. (English summary) **2005f:94154**
Horváth, Ákos G. On the second-order Reed-Muller code. (English summary) **2005a:94096**
Houghten, Sheridan K. *see* **Letourneau, Michael J.**
Hristov, Plamen *see* **Daskalov, R. N. et al.**
Hu, Wan Bao The dual of a generalized Calderbank-McGuire code over $\mathbb{Z}_4$. (Chinese. English and Chinese summaries) **2005a:94097**
Huertas, José L. *see* **Quintana, José María et al., 2005b:94057**
Hyun, Jong Yoon (*with* Kim, Hyun Kwang) The poset structures admitting the extended binary Hamming code to be a perfect code. (English summary) **2005h:94072**
Ibukiyama, T. *see* **Bannai, Eiichi et al., 2005a:94085**
Ivorgov, Vasil I. New self-dual codes of length 106. (English summary) **2005a:94098**
— *see also* **Goodwin, Vanere, 2005h:94070**
Kapralov, S. N. *see* **Bogdanova, G. T.**
Katsura, Toshiyuki (*with* Kawakita, Motoko Qiu) On the distribution of linear codes. (English summary) **2005m:94045**
Kawakita, Motoko Qiu *see* **Katsura, Toshiyuki, 2005m:94045**
Kazarin, L. S. (*with* Sidel′nikov, V. M.; Gashkov, I. B.) Relative duality in MacWilliams identity. (English summary) **2005b:94053**
Kelarev, Andrei V. *see* **Bereg, Sergei et al., 2005i:94016**
Key, J. D. (*with* Moori, J.; Rodrigues, B. G.) Binary codes from graphs on triples. (English summary) **2005b:94054**
Killian, Charles E. (*with* Savage, Carla D.) Antipodal Gray codes. (English summary) **2005b:94055**
Kim, Hyun Kwang (*with* Lebedev, V. S.) On the optimality of trivial (w, r)-cover-free codes. (Russian. Russian summary) **2005g:94100**
— *see also* **Hyun, Jong Yoon, 2005h:94072**
Kim, Jon-Lark (*with* Mellinger, Keith E.; Pless, Vera) Projections of binary linear codes onto larger fields. (English summary) **2005a:94099**
— *see also* **Gulliver, T. Aaron et al., 2005h:94071**
Kitazume, Masaaki (*with* Ooi, Takeshi) Classification of type II Z_6-codes of length 8. (English summary)
— *see also* **Harada, Masaaki et al., 2005c:94070** *and* **2005m:94044**
Kløve, Torleiv *see* **Chen, Wen De, 2005a:94088**; **2005d:94189**; **2005j:94035** *and* **Helleseth, Tor et al.**
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Krotov, D. S. Inductive constructions of perfect ternary constant-weight codes with distance 3. (Russian. Russian summary) **2005e:94257**
— (*with* Potapov, V. N.) Multiple MDS and perfect codes that are not splittable into single codes. (Russian. Russian summary) **2005e:94258**
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Laihonen, Tero *see* **Honkala, Iiro et al., 2005f:94154**
Landgev, Ivan N. The geometric approach to linear codes. (English summary) (*see* **2004k:51001**)
— *see also* **Maruta, Tatsuya et al., 2005j:94038**
Lebedev, V. S. An asymptotic upper bound for the rate of (w, r)-cover-free codes. (Russian. Russian summary) **2005g:94101**
— *see also* **Kim, Hyun Kwang, 2005g:94100**
Letourneau, Michael J. (*with* Houghten, Sheridan K.) Optimal ternary (11, 7) and (14, 10) error-correcting codes. (English summary)
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Liu, Hongwei[1] *see* **Fan, Yun, 2005m:94042**
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Los′, A. V. Construction of perfect q-ary codes by sequential shifts of the $\widetilde{\alpha}$-components. (Russian. Russian summary)
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Masol, V. I. Investigation of linear codes possessing some extra properties. (English summary) (*see* **2005b:94001**)
Mellinger, Keith E. LDPC codes from triangle-free line sets. (English summary) **2005b:94056**
— *see also* **Kim, Jon-Lark et al., 2005a:94099**
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Niederreiter, Harald (*with* Xing, Chaoping) Disjoint linear codes from algebraic function fields. (English summary)
Nishimura, Takuji A new extremal self-dual code of length 64. (English summary) **2005e:94261**
Nocon, Ederlina G. On the construction of some type II codes over $\mathbb{Z}_4 \times \mathbb{Z}_4$. (English summary) **2005c:94072**
Ooi, Takeshi *see* **Kitazume, Masaaki**
Östergård, Patric R. J. There exists no Hermitian self-dual quaternary $[26, 13, 10]_4$ code. (English summary)
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Ozen, Mehmet (*with* Siap, Irfan) On the structure and decoding of linear codes with respect to the Rosenbloom-Tsfasman metric. (English summary)
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Romanov, A. M. On partitions of q-ary Hamming codes into disjoint components. (Russian. Russian summary) **2005k:94034**
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Schaathun, Hans Georg Duality and support weight distributions. (English summary)
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Siap, Irfan The complete weight enumerator for codes over $\mathscr{M}_{n\times s}(\mathbb{F}_q)$. (English summary) (*see* **2005b:94001**)
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Sidel′nikov, V. M. *see* **Kazarin, L. S. et al., 2005b:94053**
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— *see also* **Harada, Masaaki et al., 2005d:94190**
Tang, Yuansheng On the error exponents of reliability-order-based decoding algorithms for linear block codes. (English summary) **2005d:94193**
Tardos, Gábor Optimal probabilistic fingerprint codes. (English summary) **2005j:94040**
Tarokh, Vahid *see* **Chong, Chan Vee et al.**
Tsybakov, B. S. (*with* Rubinov, A. R.) Some constructions of conflict-avoiding codes. (Russian. Russian summary)
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Venkataramani, Raman *see* **Chong, Chan Vee et al.**
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Wakabayashi, Takehisa On the self-dual codes over GF(7) generated by Hadamard matrices of order 28. (English summary)
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Weakley, William D. *see* **Bertolo, Riccardo et al., 2005a:94086**
Weber, Jos H. (*with* Fossorier, Marc P. C.) Limited-trial Chase-like algorithms achieving bounded-distance decoding. (English summary)
Willems, Wolfgang *see* **Martínez-Pérez, Conchita, 2005e:94259**; **2005f:94155** *and* **Baicheva, Tsonka et al.**
Wisbauer, Robert *see* **Greferath, Marcus et al., 2005g:94099**
Xin, Xiao Long *see* **Chang, Dong Mei**
Xing, Chaoping (*with* Fang, Yang) A class of polynomial codes. (English summary)
— *see also* **Niederreiter, Harald**
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— (*with* Zinov′ev, D. V.) Binary perfect codes of length 15 obtained by a generalized concatenated construction. (Russian. Russian summary) **2005f:94158**
— (*with* Helleseth, Tor) On weight distributions of shifts of Goethals-like codes. (Russian. Russian summary) **2005e:94262**
Zou, Zi De A mathematical proof for the weight distribution of one Hermitian code. (Chinese. English and Chinese summaries)

Items with secondary classifications in 94B05

Anokhin, M. I. On some sets of group functions. (Russian. Russian summary) **2005b:16050**
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Bannai, Eiichi *see* **Bachoc, Christine et al., 2005f:05029**
Barak, Ohad (*with* Burshtein, David; Feder, Meir) Bounds on achievable rates of LDPC codes used over the binary erasure channel. (English summary)
Barát, János (*with* Edel, Yves; Hill, Raymond; Storme, Leo) On complete caps in the projective geometries over $\mathbb{F}_3$. II. New improvements. (English summary) **2005d:51016**
Betsumiya, Koichi (*with* Choie, Young Ju) Jacobi forms over totally real fields and type II codes over Galois rings $\mathrm{GR}(2^m, f)$. (English summary) **2005c:11058**
— (*with* Choie, Young Ju) Codes over $\mathbb{F}_4$, Jacobi forms and Hilbert-Siegel modular forms over $\mathbb{Q}(\sqrt{5})$. (English summary) **2005m:94047**
Britz, Thomas (*with* Rutherford, Carrie G.) Covering radii are not matroid invariants. (English summary) **2005m:05048**
Brown, Ezra The fabulous (11, 5, 2) biplane.
Burshtein, David *see* **Barak, Ohad et al.**
Carpi, Arturo (*with* de Luca, Aldo) Completions in measure of languages and related combinatorial problems. (English summary) **2005k:68114**
Choie, Young Ju *see* **Betsumiya, Koichi, 2005c:11058** *and* **2005m:94047**
Cohen, Myra B. (*with* Colbourn, Charles J.) Ladder orderings of pairs and RAID performance. (English summary) **2005c:68218**
Colbourn, Charles J. *see* **Cohen, Myra B., 2005c:68218**
Cooke, Charlie H. Linear circulant matrices over a finite field. (English summary) **2005i:15029**
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Damelin, Steven B. (*with* Michalski, G.; Mullen, Gary L.; Stone, David R.) The number of linearly independent binary vectors with applications to the construction of hypercubes and orthogonal arrays, pseudo (t, m, s)-nets and linear codes. (English summary) **2005a:05044**
Dey, Bikash Kumar (*with* Rajan, B. Sundar) Affine invariant extended cyclic codes over Galois rings. (English summary) **2005g:94113**
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Duursma, Iwan M. Combinatorics of the two-variable zeta function. (English summary) **2005k:05063**
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Evangelaras, H. (*with* Kolaiti, E.; Koukouvinos, Christos) Regular fractional factorial designs: resolution, defining relations and blocking via coding theory. (English summary)
Fagoonee, Lina (*with* Honary, Bahram) A multifunctional turbo-based receiver using partial unit memory codes. (English summary) (*see* **2005d:94152**)
Feder, Meir *see* **Barak, Ohad et al.**
Gao, Ying[1] Linear block codes from cyclotomic fields. (Chinese. English and Chinese summaries) **2005b:11199**
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Gordon, Neil A. *see* **Shaw, Ronald et al., 2005m:51011**
Gulliver, T. Aaron (*with* Kim, Jon-Lark) Circulant based extremal additive self-dual codes over GF(4). (English summary) **2005a:94113**
Hill, Raymond *see* **Barát, János et al., 2005d:51016**
Honary, Bahram *see* **Fagoonee, Lina, (2005d:94152)**
Honkala, Iiro (*with* Lobstein, Antoine) On identification in $\mathbb{Z}^2$ using translates of given patterns. (English summary) **2005m:68013**
Hoory, Shlomo (*with* Linial, Nathan) Colorings of the d-regular infinite tree. (English summary) **2005m:05092**
Huang, Yi-Zhi Conformal-field-theoretic analogues of codes and lattices. (English summary) **2005m:81274**
Kaski, Petteri (*with* Östergård, Patric R. J.) There exist non-isomorphic STS(19) with equivalent point codes. (English summary) **2005i:05018**
Katona, Gyula O. H. (*with* Sali, Attila) New type of coding problem motivated by database theory. (English summary) **2005e:68036**
Kerber, Adalbert (*with* Kohnert, Axel) Modular irreducible representations of the symmetric group as linear codes. (English summary) **2005g:20019**
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Kim, Jon-Lark (*with* Pless, Vera) Designs in additive codes over $GF(4)$. (English summary) **2005b:94067**
— *see also* **Gulliver, T. Aaron, 2005a:94113**
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Kolaiti, E. *see* **Evangelaras, H. et al.**
Koukouvinos, Christos *see* **Evangelaras, H. et al.**
Ling, Alan C. H. *see* **Ge, Gen-Nian, 2005k:05032**
Ling, San (*with* Özbudak, Ferruh) An improvement on the bounds of Weil exponential sums over Galois rings with some applications. (English summary) **2005e:11160**
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Mercier, Dany-Jack The number of solutions of the equation $\mathrm{Tr}_{\mathbb{F}_r/\mathbb{F}_s}(f(x)+v\cdot x)=b$ and some applications. (English summary) **2005m:11230**
Michalski, G. *see* **Damelin, Steven B. et al., 2005a:05044**
Minbashian, F. David The group structure of irreducible polynomials over finite fields. (English summary) **2005c:11155**
Mullen, Gary L. *see* **Damelin, Steven B. et al., 2005a:05044**
Munemasa, Akihiro (*with* Tonchev, Vladimir D.) A new quasi-symmetric 2-(56,16,6) design obtained from codes. (English summary) **2005b:05027**
Niederreiter, Harald Digital nets and coding theory. (English summary) **2005f:11161**
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Ren, Jian On the structure of Hermitian codes and decoding for burst errors. (English summary)
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— A necessary condition for the existence of arcs and codes. (English summary) **2005b:51015**
Rutherford, Carrie G. *see* **Britz, Thomas, 2005m:05048**
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Tang, Yuansheng (*with* Ling, San) On Viterbi-like algorithms and their application to Reed-Muller codes. (English summary) **2005g:94128**
Terada, Sachiyo Perfect codes in $\mathrm{SL}(2, 2^f)$. (English summary) **2005g:20002**
Tonchev, Vladimir D. On generalized Hadamard matrices of minimum rank. (English summary) **2005k:05054**
— *see also* **Munemasa, Akihiro, 2005b:05027**
Vertigan, Dirk Latroids and their representation by codes over modules. (English summary) **2005g:05036**
Vojtěchovský, Petr Combinatorial polarization, code loops, and codes of high level. (English summary) **2005f:20112**

Vu, Van H. De Bruijn covering codes with arbitrary alphabets. (English summary) **2005k:05009**
Wang, Xuesong *see* **Ding, Cunsheng**, **2005k:94018**
Wehlau, David L. Complete caps in projective space which are disjoint from a subspace of codimension two. (English summary) **2005g:51020**
Yang, Li[4] (*with* Dong, Xue Dong; Zhang, Qing Ling) Codes constructed from generalized Hadamard matrices. (Chinese. English and Chinese summaries)
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Daneshgaran, Fred (*with* Laddomada, Massimiliano; Mondin, Marina) Interleaver design for serially concatenated convolutional codes: theory and application. (English summary)
Desideri Bracco, Anne Treillis de codes quasi-cycliques. (French summary) [Lattices of quasicyclic codes] **2005c:94073**
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Graell i Amat, Alexandre (*with* Montorsi, Guido; Benedetto, Sergio) Design and decoding of optimal high-rate convolutional codes. (English summary) **2005e:94265**
Handlery, Marc (*with* Johannesson, Rolf; Zyablov, Viktor V.) An encoder and distance properties of woven convolutional codes with a tail-biting component code. (Russian. Russian summary) **2005g:94105**
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Jordan, Ralph (*with* Pavlushkov, Victor; Zyablov, Viktor V.) Maximum slope convolutional codes. (English summary)
— (*with* Höst, Stefan; Johannesson, Rolf; Bossert, Martin; Zyablov, Viktor V.) Woven convolutional codes. II. Decoding aspects. (English summary) **2005f:94159**
Koyama, Toshiko (*with* Homma, Yuko) The relations between binary Reed-Muller codes and cyclic codes. (English summary)
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Laddomada, Massimiliano *see* **Daneshgaran, Fred et al.**
Lally, Kristine Quasicyclic codes of index l over $\mathbf{F}_q$ viewed as $\mathbf{F}_q[x]$-submodules of $\mathbf{F}_{q^l}[x]/\langle x^m - 1\rangle$. (English summary) **2005d:94194**
Lin, Xiaoyan[2] Quantum cyclic and constacyclic codes. (English summary) **2005a:94104**
Ling, San A family of group character codes. (English summary) **2005c:94075**
Los′, A. V. Letter to the editors: "Construction of perfect q-ary codes by sequential shifts of the $\widetilde{\alpha}$-components" [Problemy Peredachi Informatsii **40** (2004), no. 1, 40–47; MR2099018]. (Russian)
Miller, Scott L. *see* **Bouzekri, Hicham**, **2005e:94263**
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Sridharan, Arvind *see* **Tanner, Robert Michael et al.**, **2005g:94108**
Tanaka, Toshiyuki[2] *see* **Ikeda, Shiro et al.**, **2005g:94107**
Tanner, Robert Michael (*with* Sridhara, Deepak; Sridharan, Arvind; Fuja, Thomas E.; Costello, Daniel J., Jr.) LDPC block and convolutional codes based on circulant matrices. (English summary) **2005g:94108**
Tralli, Velio *see* **Chiani, Marco et al.**, **2005e:94264**
Ytrehus, Øyvind *see* **Rosnes, Eirik**, **2005e:94266**
Zampieri, Sandro *see* **Fagnani, Fabio**, **2005c:94074**
Zyablov, Viktor V. (*with* Johannesson, Rolf; Pavlushkov, Victor) Detecting and correcting capabilities of convolutional codes. (Russian. Russian summary) **2005g:94109**
— *see also* **Jordan, Ralph et al.**, **2005f:94159** *and* **Handlery, Marc et al.**, **2005g:94105**

Items with secondary classifications in 94B10

Ahmad, M. Omair *see* **Guo, Man et al.**, **2005h:94082**
Armand, Marc A. Generalized rational interpolation over commutative rings and remainder decoding. (English summary) **2005c:94084**
Benedetto, Sergio *see* **Perotti, Alberto**
Bocharova, Irina E. (*with* Handlery, Marc; Johannesson, Rolf; Kudryashov, Boris D.) A BEAST for prowling in trees. (English summary) **2005e:94267**
Dey, Bikash Kumar (*with* Rajan, B. Sundar) Codes closed under arbitrary abelian group of permutations. (English summary) **2005h:94084**
Feldman, Jon (*with* Karger, David R.) Decoding turbo-like codes via linear programming. (English summary) **2005c:94085**
Guo, Man (*with* Ahmad, M. Omair; Swamy, M. N. S.; Wang, Chunyan) FPGA design and implementation of a low-power systolic array-based adaptive Viterbi decoder. (English summary) **2005h:94082**
Handlery, Marc (*with* Johannesson, Rolf; Zyablov, Viktor V.) Decoding in a window from the point of view of distances. (Russian. Russian summary) **2005g:94125**
— *see also* **Bocharova, Irina E. et al.**, **2005e:94267**
Johannesson, Rolf *see* **Bocharova, Irina E. et al.**, **2005e:94267**; **Ståhl, Per**, **2005g:94111** *and* **Handlery, Marc et al.**, **2005g:94125**
Karger, David R. *see* **Feldman, Jon**, **2005c:94085**
Kudryashov, Boris D. *see* **Bocharova, Irina E. et al.**, **2005e:94267**
Lentmaier, Michael (*with* Trukhachev, D. V.; Zigangirov, Kamil Sh.) Analytic expressions for the bit error probabilities of rate-1/2 memory 2 convolutional encoders. (English summary)
Perotti, Alberto (*with* Benedetto, Sergio) A new upper bound on the minimum distance of turbo codes. (English summary)
Rajan, B. Sundar *see* **Dey, Bikash Kumar**, **2005h:94084**
Rosnes, Eirik (*with* Ytrehus, Øyvind) On maximum length convolutional codes under a trellis complexity constraint. (English summary) **2005e:94075**
Ståhl, Per (*with* Johannesson, Rolf) On systematic encoders of tail-biting codes. (Russian. Russian summary) **2005g:94111**
Swamy, M. N. S. *see* **Guo, Man et al.**, **2005h:94082**
Trukhachev, D. V. *see* **Lentmaier, Michael et al.**
Wang, Chunyan *see* **Guo, Man et al.**, **2005h:94082**
Ytrehus, Øyvind *see* **Rosnes, Eirik**, **2005e:94075**
Zigangirov, Kamil Sh. *see* **Lentmaier, Michael et al.**
Zyablov, Viktor V. *see* **Handlery, Marc et al.**, **2005g:94125**

94B12 Combined modulation schemes (including trellis codes)

Al-Salman, Hesham M. (*with* Al-Semari, Saud A.) Multidimensional distance properties of space-time trellis codes. (English and Arabic summaries)
Al-Semari, Saud A. *see* **Al-Salman, Hesham M.**
Beaulieu, Norman C. *see* **Damen, Mohamed Oussama et al.**, **2005b:94058**
Bocharova, Irina E. (*with* Handlery, Marc; Johannesson, Rolf; Kudryashov, Boris D.) A BEAST for prowling in trees. (English summary) **2005e:94267**
Breiling, Marco A logarithmic upper bound on the minimum distance of turbo codes. (English summary)
Burnashev, M. V. On upper bounds for the error probability of decoding convolutional codes. (Russian. Russian summary) **2005g:94110**
Climescu-Haulica, Adriana Large deviation analysis of space-time trellis codes. (English summary) (*see* **2005d:00014**)
Damen, Mohamed Oussama (*with* El Gamal, Hesham; Beaulieu, Norman C.) Systematic construction of full diversity algebraic constellations. (English summary) **2005b:94058**
El Gamal, Hesham *see* **Damen, Mohamed Oussama et al.**, **2005b:94058**
Fagoonee, Lina (*with* Honary, Bahram) A multifunctional turbo-based receiver using partial unit memory codes. (English summary) (*see* **2005d:94152**)
Handlery, Marc (*with* Johannesson, Rolf; Zyablov, Viktor V.) On error exponents for woven convolutional codes with one tailbiting component code. (English summary)
— *see also* **Bocharova, Irina E. et al.**, **2005e:94267**
Honary, Bahram *see* **Fagoonee, Lina**, (**2005d:94152**)
Huang, Xiaoling *see* **Wu, Keying et al.**
Ionescu, D. Mihai *see* **Yan, Zhiyuan**
Johannesson, Rolf *see* **Bocharova, Irina E. et al.**, **2005e:94267**; **Ståhl, Per**, **2005g:94111** *and* **Handlery, Marc et al.**
Kötter, Ralf (*with* Vardy, Alexander) On the theory of linear trellises. (English summary) **2005c:94076**
Kudryashov, Boris D. *see* **Bocharova, Irina E. et al.**, **2005e:94267**
Kumar, P. N. A. *see* **Shankar, Priti et al.**, (**2005a:68007**)
Lentmaier, Michael (*with* Trukhachev, D. V.; Zigangirov, Kamil Sh.) On the theory of low-density convolutional codes. II. (Russian. Russian summary) **2005h:94074**
— *see also* **Trukhachev, D. V. et al.**, **2005e:94268**
Ma, Xiao (*with* Ping, Li) Coded modulation using superimposed binary codes. (English summary)
Phamdo, Nam *see* **Wu, Keying et al.**
Ping, Li *see* **Wu, Keying et al.** *and* **Ma, Xiao**
Rajan, B. Sundar *see* **Shankar, Priti et al.**, (**2005a:68007**)
Rosnes, Eirik (*with* Ytrehus, Øyvind) Sphere-packing bounds for convolutional codes. (English summary) **2005f:94160**
Shankar, Priti (*with* Kumar, P. N. A.; Singh, Harmeet; Rajan, B. Sundar) Minimal tail-biting trellises for certain cyclic block codes are easy to construct. (English summary) (*see* **2005a:68007**)
Singh, Harmeet *see* **Shankar, Priti et al.**, (**2005a:68007**)
Ståhl, Per (*with* Johannesson, Rolf) On systematic encoders of tail-biting codes. (Russian. Russian summary) **2005g:94111**
Trukhachev, D. V. (*with* Lentmaier, Michael; Zigangirov, Kamil Sh.) Some results on the design and decoding of turbo codes. (Russian. Russian summary) **2005e:94268**
— *see also* **Lentmaier, Michael et al.**, **2005h:94074**
Vardy, Alexander *see* **Kötter, Ralf**, **2005c:94076**
Wang, Genyuan *see* **Wang, Haiquan et al.**
Wang, Haiquan (*with* Wang, Genyuan; Xia, Xiang-Gen) Some 2×2 unitary space-time codes from sphere packing theory with optimal diversity product of code size 6. (English summary)

Wu, Keying (*with* Ping, Li; Huang, Xiaoling; Phamdo, Nam) Performance analysis of turbo-SPC codes. (English summary)
Xia, Xiang-Gen *see* **Wang, Haiquan et al.**
Yan, Zhiyuan (*with* Ionescu, D. Mihai) Geometrical uniformity of a class of space-time trellis codes. (English summary)
Ytrehus, Øyvind *see* **Rosnes, Eirik, 2005f:94160**
Zigangirov, Kamil Sh. *see* **Trukhachev, D. V. et al., 2005e:94268** *and* **Lentmaier, Michael et al., 2005h:94074**
Zyablov, Viktor V. *see* **Handlery, Marc et al.**

Items with secondary classifications in 94B12

Bazzi, Louay (*with* Richardson, Thomas J.; Urbanke, Rüdiger L.) Exact thresholds and optimal codes for the binary-symmetric channel and Gallager's decoding algorithm A. (English summary) **2005e:94280**
Benedetto, Sergio *see* **Graell i Amat, Alexandre et al., 2005e:94265** *and* **Tarable, Alberto et al., 2005e:94287**
Bocharova, Irina E. (*with* Johannesson, Rolf; Kudryashov, Boris D.) Low state complexity block codes via convolutional codes. (English summary)
Caire, Giuseppe *see* **Roumy, Aline et al., 2005e:94062**
Fischer, Thomas Robert *see* **Kang, Sangwon et al., 2005g:94050**
Graell i Amat, Alexandre (*with* Montorsi, Guido; Benedetto, Sergio) Design and decoding of optimal high-rate convolutional codes. (English summary) **2005e:94265**
Guemghar, Souad *see* **Roumy, Aline et al., 2005e:94062**
Johannesson, Rolf *see* **Bocharova, Irina E. et al.**
Kang, Sangwon (*with* Shin, Yongwon; Fischer, Thomas Robert) Low-complexity predictive trellis-coded quantization of speech line spectral frequencies. (English summary) **2005g:94050**
Kudryashov, Boris D. *see* **Bocharova, Irina E. et al.**
Liu, K. J. Ray *see* **Safar, Zoltan, 2005f:94073**
MacKay, David J. C. Almost-certainly runlength-limiting codes. (English summary) (*see* **2005b:94001**)
Montorsi, Guido *see* **Graell i Amat, Alexandre et al., 2005e:94265** *and* **Tarable, Alberto et al., 2005e:94287**
Richardson, Thomas J. *see* **Bazzi, Louay et al., 2005e:94280**
Roumy, Aline (*with* Guemghar, Souad; Caire, Giuseppe; Verdú, Sergio) Design methods for irregular repeat-accumulate codes. (English summary) **2005e:94062**
Safar, Zoltan (*with* Liu, K. J. Ray) Systematic space-time trellis code construction for correlated Rayleigh-fading channels. (English summary) **2005f:94073**
Shin, Yongwon *see* **Kang, Sangwon et al., 2005g:94050**
Tarable, Alberto (*with* Benedetto, Sergio; Montorsi, Guido) Mapping interleaving laws to parallel turbo and LDPC decoder architectures. (English summary) **2005e:94287**
Urbanke, Rüdiger L. *see* **Bazzi, Louay et al., 2005e:94280**
Verdú, Sergio *see* **Roumy, Aline et al., 2005e:94062**

94B15 Cyclic codes

Abdel-Ghaffar, Khaled A. S. *see* **Tang, Heng et al., 2005e:94274**
Abualrub, Taher (*with* Ghrayeb, Ali; Oehmke, Robert H.) A mass formula and rank of $\mathbb{Z}_4$ cyclic codes of length 2^e. (English summary)
Agustini, Edson *see* **Rodrigues Costa, Sueli I. et al., 2005g:94114**
Araya, Makoto (*with* Harada, Masaaki) MDS codes over $\mathbb{F}_9$ related to the ternary Golay code. (English summary) **2005b:94059**
Bakshi, Gurmeet K. (*with* Raka, Madhu) Minimal cyclic codes of length 2^m. (English summary) **2005a:94105**
Be'ery, Yair *see* **Shany, Yaron et al., 2005c:94078**
Charpin, Pascale Cyclic codes with few weights and Niho exponents. (English summary) **2005h:94075**
Daskalov, R. N. (*with* Hristov, Plamen) New quasicyclic codes over GF(7) with a one-generator polynomial. (Russian. Russian summary) **2005g:94112**
— (*with* Hristov, Plamen) One-generator quasi-cyclic quaternary linear codes and construction X. (English summary) **2005c:94077**
Dass, Bal Kishan (*with* Jain, Sapna) High-density close-closed loop burst error detecting codes. (English summary) **2005e:94269**
Dey, Bikash Kumar (*with* Rajan, B. Sundar) Affine invariant extended cyclic codes over Galois rings. (English summary) **2005g:94113**
— (*with* Rajan, B. Sundar) $\mathbf{F}_q$-linear cyclic codes over $\mathbf{F}_{q^m}$: DFT approach. (English summary) **2005m:94046**
Dinh, Hai Quang (*with* López-Permouth, Sergio R.) Cyclic and negacyclic codes over finite chain rings. (English summary) **2005e:94270**
Fu, Fang Wei (*with* Ling, San; Xing, Chaoping) Constructions of nonbinary codes correcting t-symmetric errors and detecting all unidirectional errors: magnitude error criterion. (English summary) **2005d:94195**
Gao, Ying[1] Bilinear forms and linear codes. (English summary) **2005d:94196**
Ghrayeb, Ali *see* **Abualrub, Taher et al.**
Han, Wen Bao *see* **Li, Guang Song, 2005d:94197**
Harada, Masaaki *see* **Araya, Makoto, 2005b:94059**
Helleseth, Tor *see* **Shin, Dong-Joon et al., 2005b:94060**
Hristov, Plamen *see* **Daskalov, R. N., 2005c:94077** *and* **2005g:94112**
Jain, Sapna Solid burst error detecting cyclic codes. (English summary) **2005e:94271**
— *see also* **Dass, Bal Kishan, 2005e:94269**
Justesen, Jørn Upper bounds on the number of errors corrected by a convolutional code. (English summary) **2005e:94272**
Kou, Yu *see* **Tang, Heng et al., 2005e:94274**
Kumar, P. Vijay *see* **Shin, Dong-Joon et al., 2005b:94060**
Li, Guang Song (*with* Han, Wen Bao) Cyclic codes and their Mattson-Solomon polynomials over finite chain rings. (Chinese. English and Chinese summaries) **2005d:94197**
Li, Lei[3] *see* **Sun, Guang Ren, 2005b:94061**
Lin, Shu *see* **Tang, Heng et al., 2005e:94274**
Ling, San (*with* Solé, Patrick) Good self-dual quasi-cyclic codes over F_q, q odd. (English summary) **2005d:94198**
— *see also* **Fu, Fang Wei et al., 2005d:94195**
Loidreau, Pierre Sur la reconstruction des polynômes linéaires: un nouvel algorithme de décodage des codes de Gabidulin. (English and French summaries) [On the reconstruction of linearized polynomials: a new decoding algorithm for Gabidulin codes] **2005h:94076**
López-Permouth, Sergio R. *see* **Dinh, Hai Quang, 2005e:94270**
Metodieva, Elena Six new quasi-cyclic linear codes over GF(7). (English and Bulgarian summaries) (*see* **2005f:00011**)
Muniz, Marcelo *see* **Rodrigues Costa, Sueli I. et al., 2005g:94114**
Narayanan, Krishna R. *see* **Wang, Xiaodong[2] et al.**
Oehmke, Robert H. *see* **Abualrub, Taher et al.**
Palazzo, Reginaldo, Jr. *see* **Rodrigues Costa, Sueli I. et al., 2005g:94114**
Rajan, B. Sundar *see* **Dey, Bikash Kumar, 2005g:94113** *and* **2005m:94046**
Raka, Madhu *see* **Bakshi, Gurmeet K., 2005a:94105**
Reuven, Ilan *see* **Shany, Yaron et al., 2005c:94078**
Rodrigues Costa, Sueli I. (*with* Muniz, Marcelo; Agustini, Edson; Palazzo, Reginaldo, Jr.) Graphs, tessellations, and perfect codes on flat tori. (English summary) **2005g:94114**
Séguin, Gérald E. A class of 1-generator quasi-cyclic codes. (English summary) **2005e:94273**
Shany, Yaron (*with* Reuven, Ilan; Be'ery, Yair) Lower bounds on the state complexity of linear tail-biting trellises. (English summary) **2005c:94078**
Shin, Dong-Joon (*with* Kumar, P. Vijay; Helleseth, Tor) An Assmus-Mattson-type approach for identifying 3-designs from linear codes over Z_4. (English summary) **2005b:94060**
Solé, Patrick *see* **Ling, San, 2005d:94198** *and* **Zinov'ev, D. V., 2005f:94162**
Sun, Guang Ren (*with* Li, Lei[3]) Some researches on the duals of binary irreducible cyclic codes. (Chinese. English and Chinese summaries) **2005b:94061**
Tang, Heng (*with* Xu, Jun; Kou, Yu; Lin, Shu; Abdel-Ghaffar, Khaled A. S.) On algebraic construction of Gallager and circulant low-density parity-check codes. (English summary) **2005e:94274**
Vega, Gerardo (*with* Wolfmann, Jacques) Some families of $\mathbb{Z}_4$-cyclic codes. (English summary) **2005f:94161**
Wang, Xiaodong[2] (*with* Yue, Guosen; Narayanan, Krishna R.) Optimization of LDPC-coded turbo CDMA systems. (English summary)
Wolfmann, Jacques *see* **Vega, Gerardo, 2005f:94161**
Xing, Chaoping *see* **Fu, Fang Wei et al., 2005d:94195**
Xiong, Yu The multicovering radii of tensor product codes. (Chinese. English and Chinese summaries)
Xu, Jun *see* **Tang, Heng et al., 2005e:94274**
Yue, Guosen *see* **Wang, Xiaodong[2] et al.**
Zinov'ev, D. V. (*with* Solé, Patrick) Quaternary codes and two-phase sequences obtained from codes over $\mathbb{Z}_8$. (Russian. Russian summary) **2005f:94162**

Items with secondary classifications in 94B15

Abdukhalikov, Kanat Lattices invariant under the affine general linear group. (English summary) **2005g:11122**
Bereg, Sergei (*with* Kelarev, Andrei V.; Salagean-Mandache, Ana Maria) Directed graphs and minimum distances of error-correcting codes in matrix rings. (English summary) **2005i:94016**
Borisov, Yurii Fedorovich (*with* Manev, Nickolai) Minimal codewords in linear codes. (English summary) **2005h:94068**
Buccimazza, Biagio (*with* Dass, Bal Kishan; Jain, Sapna) High-density-burst error detection. (English summary) **2005h:94077**
Chang, Yanxun *see* **Ma, Shikui**
Cohen, Stephen D. *see* **Franken, Ralf, 2005g:94136**
Cui, Jie[1] (*with* Pei, Junying) Generalized MacWilliams identities for $\mathbb{Z}_4$-linear codes. (English summary)
Dass, Bal Kishan *see* **Buccimazza, Biagio et al., 2005h:94077**
Franken, Ralf (*with* Cohen, Stephen D.) The covering radius of some primitive ternary BCH codes. (English summary) **2005g:94136**
Glüsing-Lüerssen, Heide (*with* Schmale, Wiland) On cyclic convolutional codes. (English summary) **2005g:94104**
Jain, Sapna *see* **Buccimazza, Biagio et al., 2005h:94077**
Kelarev, Andrei V. *see* **Bereg, Sergei et al., 2005i:94016**
Lax, R. F. On the character of S_n acting on subspaces of $\mathbb{F}_q^n$. (English summary) **2005c:51015**
Ma, Shikui (*with* Chang, Yanxun) A new class of optimal optical orthogonal codes with weight five. (English summary)
Manev, Nickolai *see* **Borisov, Yurii Fedorovich, 2005h:94068**
Pei, Junying *see* **Cui, Jie[1]**
Salagean-Mandache, Ana Maria *see* **Bereg, Sergei et al., 2005i:94016**
Sason, Igal (*with* Urbanke, Rüdiger L.) Complexity versus performance of capacity-achieving irregular repeat-accumulate codes on the binary erasure channel. (English summary) **2005e:94063**
Schmale, Wiland *see* **Glüsing-Lüerssen, Heide, 2005g:94104**
Urbanke, Rüdiger L. *see* **Sason, Igal, 2005e:94063**

94B20 Burst-correcting codes

Buccimazza, Biagio (*with* Dass, Bal Kishan; Jain, Sapna) High-density-burst error detection. (English summary) **2005h:94077**
— (*with* Dass, Bal Kishan; Jain, Sapna) Ternary $(1, 2)$ optimal linear codes. (English summary) **2005d:94199**
Dass, Bal Kishan (*with* Innamorati, Stefano; Sobha, Gangmei) Low-density CT burst error-locating linear codes. (English summary) **2005j:94041**
— *see also* **Buccimazza, Biagio et al., 2005d:94199** *and* **2005h:94077**
Innamorati, Stefano *see* **Dass, Bal Kishan et al., 2005j:94041**

Jain, Sapna (*with* Nam, Ki-Bong) Bound for burst error correction with Lee weight. (English summary) **2005i:94018**
— *see also* **Buccimazza, Biagio et al., 2005d:94199** *and* **2005h:94077**
Nam, Ki-Bong *see* **Jain, Sapna, 2005i:94018**
Ren, Jian On the structure of Hermitian codes and decoding for burst errors. (English summary)
Sobha, Gangmei *see* **Dass, Bal Kishan et al., 2005j:94041**

Items with secondary classifications in 94B20

Itskov, Mikhail Comments on: "Exact expansions of arbitrary tensor functions $\mathbf{F}(\mathbf{A})$ and their derivatives" [Internat. J. Solids Structures **41** (2004), no. 2, 337–349; MR2027212 (2004j:74011)] by J. Lu. (English summary)
(Lu, Jia) *see* **Itskov, Mikhail**

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Agrell, Erik (*with* Lassing, Johan; Ström, Erik G.; Ottosson, Tony) On the optimality of the binary reflected gray code. (English summary)
Ammar, Bassem (*with* Honary, Bahram; Kou, Yu; Xu, Jun; Lin, Shu) Construction of low-density parity-check codes based on balanced incomplete block designs. (English summary) **2005g:94115**
Bertrand, Nathalie (*with* Charon, Irène; Hudry, Olivier; Lobstein, Antoine) 1-identifying codes on trees. (English summary) **2005k:94036**
Betsumiya, Koichi (*with* Choie, Young Ju) Codes over $\mathbb{F}_4$, Jacobi forms and Hilbert-Siegel modular forms over $\mathbf{Q}(\sqrt{5})$. (English summary) **2005m:94047**
Bilu, Yonatan (*with* Hoory, Shlomo) On codes from hypergraphs. (English summary) **2005d:94200**
Cai, Qing Jun (*with* Pei, Ding Yi) Some new frameproof codes and secure frameproof codes. (Chinese. English and Chinese summaries)
Charon, Irène *see* **Bertrand, Nathalie et al., 2005k:94036**
Choie, Young Ju *see* **Betsumiya, Koichi, 2005m:94047**
Coahran, Marge M. (*with* Colbourn, Charles J.) Maximum and average access cost in double erasure RAID disk arrays. (English summary) **2005i:94019**
Colbourn, Charles J. *see* **Coahran, Marge M., 2005i:94019**
Dey, Bikash Kumar On existence of good self-dual quasi-cyclic codes. (English summary) **2005e:94275**
Dodunekov, Stefan M. *see* **Dodunekova, Rositsa D. et al., 2005m:94048**
Dodunekova, Rositsa D. (*with* Dodunekov, Stefan M.; Nikolova, E.) On the capability of some classes of block codes to detect errors. (Russian. Russian summary) **2005m:94048**
Fossorier, Marc P. C. Quasi-cyclic low-density parity-check codes from circulant permutation matrices. (English summary) **2005e:94276**
Gabidulin, Ernst M. (*with* Pilipchuk, N. I.) Symmetric rank codes. (Russian. Russian summary) **2005h:94078**
Georgiou, Stelios (*with* Koukouvinos, Christos) Self-dual codes over F_p and orthogonal designs. (English summary) **2005f:94163**
Gutiérrez, N. *see* **Tapia-Recillas, Horacio**
Honary, Bahram *see* **Ammar, Bassem et al., 2005g:94115**
Hoory, Shlomo *see* **Bilu, Yonatan, 2005d:94200**
Hudry, Olivier *see* **Bertrand, Nathalie et al., 2005k:94036**
Jerebic, Janja (*with* Klavžar, Sandi; Špacapan, Simon) Characterizing r-perfect codes in direct products of two and three cycles. (English summary) **2005i:94020**
Key, J. D. (*with* Limbupasiriporn, J.) Partial permutation decoding for codes from Paley graphs. (English summary) **2005i:94021**
Kim, Hyun Kwang (*with* Lebedev, V. S.) On optimal superimposed codes. (English summary) **2005c:94079**
Klavžar, Sandi *see* **Jerebic, Janja et al., 2005i:94020**
Kou, Yu *see* **Ammar, Bassem et al., 2005g:94115**
Koukouvinos, Christos *see* **Georgiou, Stelios, 2005f:94163**
Lassing, Johan *see* **Agrell, Erik et al.**
Lebedev, V. S. *see* **Kim, Hyun Kwang, 2005c:94079**
Limbupasiriporn, J. *see* **Key, J. D., 2005i:94021**
Lin, Shu *see* **Ammar, Bassem et al., 2005g:94115**
Ling, San (*with* Xing, Chaoping) Polyadic codes revisited. (English summary) **2005a:94106**
Lobstein, Antoine *see* **Bertrand, Nathalie et al., 2005k:94036**
Nikolova, E. *see* **Dodunekova, Rositsa D. et al., 2005m:94048**
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Pei, Ding Yi *see* **Cai, Qing Jun**
Pilipchuk, N. I. *see* **Gabidulin, Ernst M., 2005h:94078**
Špacapan, Simon *see* **Jerebic, Janja et al., 2005i:94020**
Strehl, Alexander L. Ternary codes through ternary designs. (English summary) **2005f:94164**
Ström, Erik G. *see* **Agrell, Erik et al.**
Tapia-Recillas, Horacio (*with* Gutiérrez, N.) Systematic authentication codes based on affine transformations. (English summary)
Xing, Chaoping *see* **Ling, San, 2005a:94106**
Xu, Jun *see* **Ammar, Bassem et al., 2005g:94115**

Items with secondary classifications in 94B25

Benini, Anna PBIBDs from weakly divisible nearrings and related codes. (English summary) **2005m:05030**
Bereg, Sergei (*with* Kelarev, Andrei V.; Salagean-Mandache, Ana Maria) Directed graphs and minimum distances of error-correcting codes in matrix rings. (English summary) **2005i:94016**
Braun, Michael (*with* Kerber, Adalbert; Laue, Reinhard) Systematic construction of q-analogs of t-(v, k, λ)-designs. (English summary) **2005k:05031**
Buyuklieva, Stefka (*with* Varbanov, Zlatko) Quasi-symmetric 2-(37,9,8) designs and self-orthogonal codes with automorphisms of order 5. (English summary) **2005h:05033**
Chang, Yanxun *see* **Ma, Shikui, 2005k:05041**
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Maharaj, Hiren (*with* Matthews, Gretchen L.; Pirsic, Gottlieb) Riemann-Roch spaces of the Hermitian function field with applications to algebraic geometry codes and low-discrepancy sequences. (English summary) **2005j:14029**
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Swamy, M. N. S. *see* **Guo, Man et al.**, **2005h:94082**
Tang, Yuansheng (*with* Ling, San) On Viterbi-like algorithms and their application to Reed-Muller codes. (English summary) **2005g:94128**
Tarable, Alberto (*with* Benedetto, Sergio; Montorsi, Guido) Mapping interleaving laws to parallel turbo and LDPC decoder architectures. (English summary) **2005e:94287**
Ta-Shma, Amnon (*with* Zucherman, David) Extractor codes. (English summary) (*see* **2005j:68008**)
Tezuka, Satoru *see* **Fujii, Yasuhiro et al.**
Tokushige, Hitoshi (*with* Asatani, Jun; Fossorier, Marc P. C.; Kasami, Tadao) Selection method of test patterns in soft-input and output iterative bounded distance decoding algorithm. (English summary) **2005d:94203**
Tolhuizen, Ludo M. G. M. *see* **Cai, Ning et al.**, **2005a:94109**
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Wang, Chung-Hsuan *see* **Wu, Wei-Sheng et al.**, **2005d:94205**
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de Wolf, Ronald *see* **Kerenidis, Iordanis**, **2005k:94037**
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Wu, Guixing (*with* Yang, En-Hui) Joint watermarking and compression using scalar quantization for maximizing robustness in the presence of additive Gaussian attacks. (English summary)
Wu, Wei-Sheng (*with* Wang, Chung-Hsuan; Chiu, Mao-Ching; Chao, Chi-chao) Stability analysis of the turbo decoding algorithm using max-log-MAP. (English summary) **2005d:94205**
Wu, Xin-Wen *see* **Pellikaan, Ruud**, **2005g:94127**
Yamada, Takaaki *see* **Fujii, Yasuhiro et al.**
Yang, En-Hui *see* **Wu, Guixing**
Yoshiura, Hiroshi *see* **Fujii, Yasuhiro et al.**
Yousefi, Shahram (*with* Khandani, Amir K.) Generalized tangential sphere bound on the ML decoding error probability of linear binary block codes in AWGN interference. (English summary)
Yung, Moti *see* **Bleichenbacher, Daniel et al.**, **2005b:94062**
Zucherman, David *see* **Ta-Shma, Amnon**, (**2005j:68008**)
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Chen, Jiangxin *see* **Halevy, Shirley et al.**, **2005e:94068**
Coles, Drue *see* **Bouganis, Thanasis**, **2005c:94081**
Damen, Mohamed Oussama *see* **El Gamal, Hesham et al.**
El Gamal, Hesham (*with* Caire, Giuseppe; Damen, Mohamed Oussama) Lattice coding and decoding achieve the optimal diversity-multiplexing tradeoff of MIMO channels. (English summary)
Esmaeili, Morteza (*with* Yazdani, M. R.; Gulliver, T. Aaron) Optimal binary linear codes containing the $[6, 5, 2] \otimes [3, 1, 3]$ product code. (English summary) **2005k:94033**
Fossorier, Marc P. C. Quasi-cyclic low-density parity-check codes from circulant permutation matrices. (English summary) **2005e:94276**
Golić, Jovan Dj. (*with* Menicocci, Renato) Correlation analysis of the alternating step generator. (English summary) **2005d:94107**
Grant, Alex J. *see* **Rasmussen, Lars K. et al.**, **2005c:94007**
Guemghar, Souad *see* **Roumy, Aline et al.**, **2005e:94062**
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Guruswami, Venkatesan Limits to list decodability of linear codes. (English summary) (*see* **2005i:68004**)
— (*with* Indyk, Piotr) Linear time encodable and list decodable codes. (English summary) **2005j:94025**
— Better extractors for better codes? (English summary) **2005j:68056**
Halevy, Shirley (*with* Chen, Jiangxin; Roth, Ron M.; Siegel, Paul H.; Wolf, Jack Keil) Improved bit-stuffing bounds on two-dimensional constraints. (English summary) **2005e:94068**
Hassibi, Babak (*with* Vikalo, Haris) Maximum-likelihood decoding and integer least-squares: the expected complexity. (English summary) **2005a:94017**
Helleseth, Tor (*with* Kløve, Torleiv; Levenshtein, Vladimir I.) The simplex codes and other even-weight binary linear codes for error correction. (English summary)
Höst, Stefan *see* **Jordan, Ralph et al.**, **2005f:94159**
Ikeda, Shiro (*with* Tanaka, Toshiyuki[2]; Amari, Shun-ichi) Information geometry of turbo and low-density parity-check codes. (English summary) **2005g:94107**
Indyk, Piotr *see* **Guruswami, Venkatesan**, **2005j:94025**
Johannesson, Rolf *see* **Jordan, Ralph et al.**, **2005f:94159**
Johansson, Thomas *see* **Urivskiĭ, A. V.**, **2005g:94086**
Jordan, Ralph (*with* Höst, Stefan; Johannesson, Rolf; Bossert, Martin; Zyablov, Viktor V.) Woven convolutional codes. II. Decoding aspects. (English summary) **2005f:94159**
Kashyap, Navin (*with* Siegel, Paul H.) Sliding-block decodable encoders between (d, k) runlength-limited constraints of equal capacity. (English summary) **2005e:94069**

Khandani, Amir K. *see* **Lahouti, Farshad**
Kim, Jon-Lark (*with* Mellinger, Keith E.; Pless, Vera) Projections of binary linear codes onto larger fields. (English summary) **2005a:94099**
Kløve, Torleiv *see* **Helleseth, Tor et al.**
Lahouti, Farshad (*with* Khandani, Amir K.) Efficient source decoding over memoryless noisy channels using higher order Markov models. (English summary)
Lentmaier, Michael (*with* Trukhachev, D. V.; Zigangirov, Kamil Sh.) Analytic expressions for the bit error probabilities of rate-1/2 memory 2 convolutional encoders. (English summary)
Levenshtein, Vladimir I. *see* **Helleseth, Tor et al.**
Macdonald, Thomas G. (*with* Pursley, Michael B.) Coding for slow-frequency-hop transmission: variations on a theme of McEliece. (English summary) (*see* **2005a:94003**)
MacKay, David J. C. (*with* Mitchison, Graeme; McFadden, Paul L.) Sparse-graph codes for quantum error correction. (English summary)
McFadden, Paul L. *see* **MacKay, David J. C. et al.**
Mellinger, Keith E. *see* **Kim, Jon-Lark et al., 2005a:94099**
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Pursley, Michael B. *see* **Macdonald, Thomas G., (2005a:94003)**
Rasmussen, Lars K. (*with* Grant, Alex J.; Alexander, Paul D.) An extrinsic Kalman filter for iterative multiuser decoding. (English summary) **2005c:94007**
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Roumy, Aline (*with* Guemghar, Souad; Caire, Giuseppe; Verdú, Sergio) Design methods for irregular repeat-accumulate codes. (English summary) **2005e:94062**
Shamai, Shlomo *see* **Weingarten, Hanan et al., 2005e:94092**
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Tang, Yuansheng On the error exponents of reliability-order-based decoding algorithms for linear block codes. (English summary) **2005d:94193**
Trukhachev, D. V. *see* **Lentmaier, Michael et al.**
Urivskiĭ, A. V. (*with* Johansson, Thomas) New methods for decoding codes in a rank metric and their cryptographic applications. (Russian. Russian summary) **2005g:94086**
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Vikalo, Haris *see* **Hassibi, Babak, 2005a:94017**
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Yazdani, M. R. *see* **Esmaeili, Morteza et al., 2005k:94033**
Zhang, Tong[4] *see* **Zhong, Hao**
Zhong, Hao (*with* Zhang, Tong[4]) Block-LDPC: a pratical LDPC coding system design approach. (English summary)
Zigangirov, Kamil Sh. *see* **Lentmaier, Michael et al.**
Zyablov, Viktor V. *see* **Jordan, Ralph et al., 2005f:94159**

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Helleseth, Tor (*with* Voloch, José Felipe) Double circulant quadratic residue codes. (English summary) **2005e:94288**
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Zhu, Shi Xin *see* **Yang, Shan Lin et al.**

Items with secondary classifications in 94B40

Ajtai, Miklós (*with* Kumar, S. Ravi; Sivakumar, Dandapani) A sieve algorithm for the shortest lattice vector problem. (English summary) **2005k:68224**
de Andrade, Antonio Aparecido (*with* Palazzo, Reginaldo, Jr.) Decoding of BCH and alternant codes by using Fourier transform in a Galois ring. (English summary)
Kantor, William M. (*with* Williams, Michael E.) Symplectic semifield planes and $\mathbb{Z}_4$-linear codes. (English summary) **2005e:51011**
Kumar, S. Ravi *see* **Ajtai, Miklós et al., 2005k:68224**
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Wang, Yejing (*with* McAven, Luke; Safavi-Naini, Reihaneh) Deletion correcting using generalized Reed-Solomon codes. (English summary) **2005d:94206**

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Abel, R. Julian R. (*with* Buratti, Marco) Some progress on $(v, 4, 1)$ difference families and optical orthogonal codes. (English summary) **2005a:94111**
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Baliga, A. R. *see* **Pinnawala, Nimalsiri**
Barg, Alexander (*with* Zémor, Gilles) Error exponents of expander codes under linear-complexity decoding. (English summary) **2005b:94065**
Bassalygo, L. A. (*with* Pinsker, Mark Semenovich) Correction of ordinary and localized errors. (Russian. Russian summary)
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Bessios, Anthony G. A class of high-rate $N/(N+1)$ low-complexity error-detecting RLL codes. (English summary)
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Cohen, Gérard Denis (*with* Schaathun, Hans Georg) Separating codes: constructions and bounds. (English summary) (*see* **2005d:68010**)
Couselo, Elena *see* **González Jiménez, Santos et al., 2005f:94168**
Denisov, O. V. Binary codes formed by functions with a nontrivial inertia group. (Russian. Russian summary) **2005g:94130**
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Dougherty, Steven T. (*with* Shiromoto, Keisuke) Maximum distance codes in $\mathrm{Mat}_{n,s}(\mathbb{Z}_k)$ with a non-Hamming metric and uniform distributions. (English summary) **2005h:94085**
González Jiménez, Santos (*with* Couselo, Elena; Markov, Viktor T.; Nechaev, Aleksandr A.) Group codes and their nonassociative generalizations. (Russian. Russian summary) **2005f:94168**
Grassl, Markus Algorithmic aspects of quantum error-correcting codes. (English summary) **2005g:94131**
Gulliver, T. Aaron (*with* Kim, Jon-Lark) Circulant based extremal additive self-dual codes over GF(4). (English summary) **2005a:94113**
Helleseth, Tor *see* **Schaathun, Hans Georg, 2005d:94209**
Holbrook, John A. (*with* Kribs, David W.; Laflamme, Raymond) Noiseless subsystems and the structure of the commutant in quantum error correction. (English summary) **2005f:94169**
Honkala, Iiro *see* **Charon, Irène et al., 2005a:94112**
Hudry, Olivier *see* **Charon, Irène et al., 2005a:94112**
Izbash, V. (*with* Syrbu, P.) Recursively differentiable quasigroups and complete recursive codes. (English summary) **2005k:94038**
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Kabatyanskiĭ, G. A. On pair-separating codes. (Russian. Russian summary)
Karpovsky, Mark G. (*with* Taubin, A. R.) New class of nonlinear systematic error detecting codes. (English summary)
Kieu Van Hung (*with* Phan Trung Huy; Do Long Van) Codes concerning roots of words. (English summary) **2005i:94023**
Kim, Jon-Lark (*with* Pless, Vera) Designs in additive codes over $GF(4)$. (English summary) **2005b:94067**
— *see also* **Gulliver, T. Aaron, 2005a:94113**
Klappenecker, Andreas (*with* Rötteler, Martin) Unitary error bases: constructions, equivalence, and applications. (English summary) **2005c:94088**
— (*with* Rötteler, Martin) On the structure of nonstabilizer Clifford codes. (English summary) **2005h:94086**
Kribs, David W. *see* **Holbrook, John A. et al., 2005f:94169**
Laflamme, Raymond *see* **Holbrook, John A. et al., 2005f:94169**
Li, Jing[2] Combinatorially designed LDPC codes using Zech logarithms and congruential sequences. (English summary) **2005d:94207**
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Li, Ruihu (*with* Li, Xue-liang) Binary construction of quantum codes of minimum distance three and four. (English summary) **2005e:94289**
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Liu, Maili *see* **Wei, Daxiu et al., 2005e:94293**
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Long, Shoulun *see* **Li, Lei[3], 2005d:94208**
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MacKay, David J. C. (*with* Mitchison, Graeme; McFadden, Paul L.) Sparse-graph codes for quantum error correction. (English summary)
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Mullen, Gary L. (*with* Shcherbakov, Viktor Alekseevich) n-T-quasigroup codes with one check symbol and their error detection capabilities. (English summary) **2005g:94132**
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Obata, Kenji Optimal lower bounds for 2-query locally decodable linear codes. (English summary) **2005b:94068**
Phan Trung Huy *see* **Kieu Van Hung et al., 2005i:94023**
Pinnawala, Nimalsiri (*with* Baliga, A. R.) Cocyclic simplex codes of type α over Z_4 and Z_2. (English summary)
Pinsker, Mark Semenovich *see* **Bassalygo, L. A.**
Pless, Vera *see* **Kim, Jon-Lark, 2005b:94067**
Pollatsek, Harriet (*with* Ruskai, Mary Beth) Permutationally invariant codes for quantum error correction. (English summary) **2005g:94133**

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Ruskai, Mary Beth *see* **Pollatsek, Harriet**, 2005g:94133
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Shany, Yaron (*with* Be'ery, Yair) A note on nonlinear Xing codes. (English summary) **2005a:94114**
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Shokrollahi, Mohammad Amin LDPC codes: an introduction. (English summary) **2005d:94210**
Sidel'nikov, V. M. Quantum codes and abelian subgroups of the extra-special group. (Russian. Russian summary) **2005g:94134**
Song, Lihua (*with* Yeung, Raymond W.; Cai, Ning) Zero-error network coding for acyclic networks. (English summary) **2005a:94115**
Spence, Sarah A. Identifying high-dimension subspace subcodes of Reed-Solomon codes. (English summary) **2005e:94291**
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Taubin, A. R. *see* **Karpovsky, Mark G.**
Vasic, Bane (*with* Milenković, Olgica) Combinatorial constructions of low-density parity-check codes for iterative decoding. (English summary) **2005e:94292**
Wei, Daxiu (*with* Luo, Jun[3]; Sun, Xianping; Zeng, Xizhi; Liu, Maili) Three-qubit quantum error-correction scheme based on quantum cloning. (English summary) **2005e:94293**
Yeung, Raymond W. *see* **Song, Lihua et al.**, 2005a:94115
Zémor, Gilles *see* **Barg, Alexander**, 2005b:94065
Zeng, Xizhi *see* **Wei, Daxiu et al.**, 2005e:94293
Zhang, Ai Li (*with* Liu, Xiu Feng) Chinese remainder codes. (Chinese. English and Chinese summaries) **2005c:94090**
Zhang, Tong[4] *see* **Zhong, Hao**
Zhong, Hao (*with* Zhang, Tong[4]) Block-LDPC: a pratical LDPC coding system design approach. (English summary)
Zuckerman, David *see* **Ta-Shma, Amnon**, 2005f:94170

Items with secondary classifications in 94B60

Abdel-Ghaffar, Khaled A. S. *see* **Djurdjevic, Ivana et al.**, 2005h:94027
Abdikalikov, K. A. Fast coding using the Chinese remainder theorem. (Russian)
Ahlswede, Rudolf F. (*with* Cai, Ning) On lossless quantum data compression with a classical helper. (English summary) **2005h:94028**
Al-Dhahir, Naofal *see* **Diggavi, Suhas N. et al.**, 2005e:94004
Alon, Noga (*with* Cohen, Gérard Denis; Krivelevich, Michael; Litsyn, Simon) Generalized hashing and parent-identifying codes. (English summary) **2005c:94061**
Ammar, Bassem *see* **Gabidulin, Ernst M. et al.**, 2005b:94030
Belyavskaya, G. B. On check character systems over quasigroups and loops. (English summary) **2005d:20113**
Bennatan, Amir (*with* Burshtein, David) On the application of LDPC codes to arbitrary discrete-memoryless channels. (English summary) **2005d:94068**
Ben-Sasson, Eli (*with* Goldreich, Oded; Harsha, Prahladh; Sudan, Madhu; Vadhan, Salil P.) Robust PCPs of proximity, shorter PCPs and applications to coding. (English summary) **2005j:68034**
Beth, Thomas *see* **Charnes, Chris**, 2005m:05031
Burshtein, David (*with* Miller, Gadi) Asymptotic enumeration methods for analyzing LDPC codes. (English summary) **2005h:94081**
— *see also* **Bennatan, Amir**, 2005d:94068
Cai, Ning *see* **Ahlswede, Rudolf F.**, 2005h:94028
Calderbank, A. R. *see* **Diggavi, Suhas N. et al.**, 2005e:94004
Chang, Yanxun (*with* Yin, Jianxing) Further results on optimal optical orthogonal codes with weight 4. (English summary) **2005a:05061**
— (*with* Ji, Lijun) Optimal $(4up, 5, 1)$ optical orthogonal codes. (English summary) **2005g:05027**
Charnes, Chris (*with* Beth, Thomas) Combinatorial aspects of jump codes. (English summary) **2005m:05031**
Cohen, Gérard Denis *see* **Alon, Noga et al.**, 2005c:94061
Daley, Mark (*with* Domaratzki, Michael) On codes defined by bio-operations. (English summary)
Dass, Bal Kishan (*with* Innamorati, Stefano; Sobha, Gangmei) Low-density CT burst error-locating linear codes. (English summary) **2005j:94041**
Devoret, Michel *see* **Rigetti, Chad et al.**, 2005i:81030
Dey, Bikash Kumar (*with* Rajan, B. Sundar) Affine invariant extended cyclic codes over Galois rings. (English summary) **2005g:94113**
— (*with* Rajan, B. Sundar) $\mathbf{F}_q$-linear cyclic codes over $\mathbf{F}_{q^m}$: DFT approach. (English summary) **2005m:94046**
Diggavi, Suhas N. (*with* Al-Dhahir, Naofal; Calderbank, A. R.) Diversity embedding in multiple antenna communications. (English summary) **2005e:94004**
Djurdjevic, Ivana (*with* Xu, Jun; Abdel-Ghaffar, Khaled A. S.; Lin, Shu) A class of low-density parity-check codes constructed based on Reed-Solomon codes with two information symbols. (English summary) **2005h:94027**
Domaratzki, Michael *see* **Daley, Mark**
Forney, G. David (*with* Trott, Mitchell D.) The dynamics of group codes: dual abelian group codes and systems. (English summary) **2005h:93035**
Fu, Fang Wei (*with* Ling, San; Xing, Chaoping) Constructions of nonbinary codes correcting t-symmetric errors and detecting all unidirectional errors: magnitude error criterion. (English summary) **2005d:94195**
Gabidulin, Ernst M. (*with* Urivskiĭ, A. V.; Ammar, Bassem; Honary, Bahram) Reducible rank codes and applications to cryptography. (English summary) **2005b:94030**
Giurcăneanu, Ciprian Doru On some properties of the NML estimator for Bernoulli strings. (English summary) **2005b:94023**
Goldreich, Oded *see* **Ben-Sasson, Eli et al.**, 2005j:68034
Guruswami, Venkatesan (*with* Indyk, Piotr) Linear time encodable and list decodable codes. (English summary) **2005j:94025**
Harsha, Prahladh *see* **Ben-Sasson, Eli et al.**, 2005j:68034
Helleseth, Tor (*with* Mykkeltveit, Johannes) A proof of Simmons' conjecture. (English summary) **2005e:05005**
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Indyk, Piotr *see* **Guruswami, Venkatesan**, 2005j:94025
Innamorati, Stefano *see* **Dass, Bal Kishan et al.**, 2005j:94041
Ishai, Yuval (*with* Kushilevitz, Eyal; Ostrovsky, Rafail; Sahai, Amit) Batch codes and their applications. (English summary) **2005j:68030**
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Junge, Marius (*with* Kim, Peter T.; Kribs, David W.) Universal collective rotation channels and quantum error correction. (English summary) **2005j:81040**
Kim, Peter T. *see* **Junge, Marius et al.**, 2005j:81040
Kitazume, Masaaki (*with* Ooi, Takeshi) Classification of type II Z_6-codes of length 8. (English summary)
Korepin, Vladimir (*with* Terilla, John) Thermodynamic interpretation of the quantum error correcting criterion. (English summary) **2005a:94039**
Kribs, David W. *see* **Junge, Marius et al.**, 2005j:81040
Krivelevich, Michael *see* **Alon, Noga et al.**, 2005c:94061
Kulhan, Nilgun *see* **Siap, Irfan**, 2005h:94003
Kushilevitz, Eyal *see* **Ishai, Yuval et al.**, 2005j:68030
Lin, Shu *see* **Djurdjevic, Ivana et al.**, 2005h:94027
Ling, San *see* **Fu, Fang Wei et al.**, 2005d:94195
Litsyn, Simon *see* **Alon, Noga et al.**, 2005c:94061
Liu, Wen An (*with* Nie, Zan Kan) Ulam-Rényi problem on searching with errors and optimal error-correcting codes. (Chinese. English and Chinese summaries) **2005g:94138**
Lu, Chi-Jen (*with* Reingold, Omer; Vadhan, Salil P.; Wigderson, Avi) Extractors: optimal up to constant factors. (English summary) **2005k:68227**
McAven, Luke *see* **Wang, Yejing et al.**, 2005d:94206
Miller, Gadi *see* **Burshtein, David**, 2005h:94081
Miyamoto, Nobuko (*with* Shinohara, Satoshi) Mutually M-intersecting (k, d)-arcs and its application to optical orthogonal codes. (English summary) **2005j:51004**
Mosseri, Rémy *see* **Rigetti, Chad et al.**, 2005i:81030
Mykkeltveit, Johannes *see* **Helleseth, Tor**, 2005e:05005
Nebe, Gabriele (*with* Rains, E. M.; Sloane, N. J. A.) Codes and invariant theory. (English summary) **2005e:94260**
Nie, Zan Kan *see* **Liu, Wen An**, 2005g:94138
Ooi, Takeshi *see* **Kitazume, Masaaki**
Ostrovsky, Rafail *see* **Ishai, Yuval et al.**, 2005j:68030
Ozen, Mehmet (*with* Siap, Irfan) On the structure and decoding of linear codes with respect to the Rosenbloom-Tsfasman metric. (English summary)
Parker, Matthew G. Spectrally bounded sequences, codes, and states: graph constructions and entanglement. (English summary) (*see* **2005b:94001**)
Rains, E. M. *see* **Nebe, Gabriele et al.**, 2005e:94260
Rajan, B. Sundar *see* **Dey, Bikash Kumar**, 2005g:94113 *and* 2005m:94046
Razborov, A. A. An upper bound on the threshold quantum decoherence rate. (English summary) **2005g:81065**
Reingold, Omer *see* **Lu, Chi-Jen et al.**, 2005k:68227
Renes, Joseph M. Spherical-code key-distribution protocols for qubits. (English summary) **2005g:81066**
Rigetti, Chad (*with* Mosseri, Rémy; Devoret, Michel) Geometric approach to digital quantum information. (English summary) **2005i:81030**
Romanov, A. M. On partitions of q-ary Hamming codes into disjoint components. (Russian. Russian summary) **2005k:94034**
Safavi-Naini, Reihaneh *see* **Wang, Yejing et al.**, 2005d:94206
Sahai, Amit *see* **Ishai, Yuval et al.**, 2005j:68030
Schlingemann, Dirk Cluster states, algorithms and graphs. (English summary) **2005i:81032**
Shany, Yaron Toward an explicit construction of nonlinear codes exceeding the Tsfasman-Vlăduţ-Zink bound. (English summary) **2005f:94171**
Shinohara, Satoshi *see* **Miyamoto, Nobuko**, 2005j:51004
Siap, Irfan (*with* Kulhan, Nilgun) The structure of generalized quasi cyclic codes. (English summary) **2005h:94003**
— *see also* **Ozen, Mehmet**
Sloane, N. J. A. *see* **Nebe, Gabriele et al.**, 2005e:94260
Sobha, Gangmei *see* **Dass, Bal Kishan et al.**, 2005j:94041
Sudan, Madhu *see* **Ben-Sasson, Eli et al.**, 2005j:68034
Terilla, John *see* **Korepin, Vladimir**, 2005a:94039
Trott, Mitchell D. *see* **Forney, G. David**, 2005h:93035
Tse, David N. C. (*with* Viswanath, Pramod) On the capacity of the multiple antenna broadcast channel. (English summary) **2005f:94043**
Urivskiĭ, A. V. *see* **Gabidulin, Ernst M. et al.**, 2005b:94030
Vadhan, Salil P. *see* **Ben-Sasson, Eli et al.**, 2005j:68034 *and* **Lu, Chi-Jen et al.**, 2005k:68227
Viswanath, Pramod Sum rate of a class of multiterminal Gaussian source coding problems. (English summary) **2005f:94005**
— *see also* **Tse, David N. C.**, 2005f:94043
Wang, Yejing (*with* McAven, Luke; Safavi-Naini, Reihaneh) Deletion correcting using generalized Reed-Solomon codes. (English summary) **2005d:94206**
Wigderson, Avi *see* **Lu, Chi-Jen et al.**, 2005k:68227
Xing, Chaoping *see* **Fu, Fang Wei et al.**, 2005d:94195
Xu, Jun *see* **Djurdjevic, Ivana et al.**, 2005h:94027
Yin, Jianxing *see* **Chang, Yanxun**, 2005a:05061

94B65 Bounds on codes

Ahlswede, Rudolf F. (*with* Cai, Ning; Deppe, Christian) An isoperimetric theorem for sequences generated by feedback, and feedback codes for unequal protection of

messages. (Russian. Russian summary) **2005g:94135**
Ahrens, Andreas *see* **Lange, Christoph[2]**, (**2005b:94001**)
Benedetto, Sergio *see* **Perotti, Alberto**
Berardi, Luigia (*with* Dass, Bal Kishan; Sobha, Gangmei) High-density burst error correcting linear codes. (English summary) **2005a:94116**
Blinovskiĭ, V. M. A uniform estimate for the spectrum of a linear code. (Russian. Russian summary)
— Code bounds for multiple packings over a nonbinary finite alphabet. (Russian. Russian summary) **2005m:94050**
Bose, Bella *see* **Oprisan, Paul**, (**2005a:94003**)
Cai, Ning *see* **Ahlswede, Rudolf F. et al.**, **2005g:94135**
Cohen, Gérard Denis (*with* Schaathun, Hans Georg) Upper bounds on separating codes. (English summary) **2005e:94294**
Cohen, Stephen D. *see* **Franken, Ralf**, **2005g:94136**
Dass, Bal Kishan *see* **Berardi, Luigia et al.**, **2005a:94116**
Deppe, Christian *see* **Ahlswede, Rudolf F. et al.**, **2005g:94135**
Dumer, I. I. *see* **Ekhanin, S. M.**
Duursma, Iwan M. Extremal weight enumerators and ultraspherical polynomials. (English summary) **2005e:94295**
Ekhanin, S. M. (*with* Dumer, I. I.) Long nonbinary codes exceeding the Gilbert-Varshamov bound for any fixed distance. (English summary)
Etzion, Tuvi (*with* Schwartz, Moshe) Perfect constant-weight codes. (English summary)
Fazekas, G. An extremum problem for polynomials and bounds for codes with given distance and diameter. (English summary) **2005d:94211**
Franken, Ralf (*with* Cohen, Stephen D.) The covering radius of some primitive ternary BCH codes. (English summary) **2005g:94136**
Fu, Fang Wei (*with* Ling, San; Xing, Chaoping) New lower bounds and constructions for binary codes correcting asymmetric errors. (English summary) **2005a:94117**
Greferath, Marcus (*with* O'Sullivan, Michael E.) On bounds for codes over Frobenius rings under homogeneous weights. (English summary) **2005m:94051**
Handlery, Marc (*with* Höst, Stefan; Johannesson, Rolf; Zyablov, Viktor V.) Distance tailored to tail-biting codes. (Russian. Russian summary)
Helleseth, Tor (*with* Schaathun, Hans Georg) On the (2, 1)-separating weight of the Kerdock code. (English summary) **2005g:94137**
Höst, Stefan *see* **Handlery, Marc et al.**
Jiang, Tao[5] (*with* Vardy, Alexander) Asymptotic improvement of the Gilbert-Varshamov bound on the size of binary codes. (English summary) **2005e:94296**
Johannesson, Rolf *see* **Handlery, Marc et al.**
Kabashima, Yoshiyuki *see* **Saad, David et al.**, (**2005b:94001**)
Lange, Christoph[2] (*with* Ahrens, Andreas) On the undetected error probability for shortened Hamming codes on channels with memory. (English summary) (*see* **2005b:94001**)
Lefmann, Hanno Sparse parity-check matrices over finite fields (extended abstract). (English summary) (*see* **2005a:05002**)
Ling, San *see* **Fu, Fang Wei et al.**, **2005a:94117**
Liu, Wen An (*with* Nie, Zan Kan) Ulam-Rényi problem on searching with errors and optimal error-correcting codes. (Chinese. English and Chinese summaries) **2005g:94138**
Murayama, Tatsuto *see* **Saad, David et al.**, (**2005b:94001**)
Nie, Zan Kan *see* **Liu, Wen An**, **2005g:94138**
Oprisan, Paul (*with* Bose, Bella) On asymmetric error detection with feedback. (English summary) (*see* **2005a:94003**)
O'Sullivan, Michael E. *see* **Greferath, Marcus**, **2005m:94051**
Perotti, Alberto (*with* Benedetto, Sergio) A new upper bound on the minimum distance of turbo codes. (English summary)
Saad, David (*with* Kabashima, Yoshiyuki; Murayama, Tatsuto; Vicente, Renato) Statistical physics of low density parity check error correcting codes. (English summary) (*see* **2005b:94001**)
Schaathun, Hans Georg A lower bound on the greedy weights of product codes. (English summary) **2005b:94069**
— *see also* **Cohen, Gérard Denis**, **2005e:94294** *and* **Helleseth, Tor**, **2005g:94137**
Schwartz, Moshe *see* **Etzion, Tuvi**
Sendrier, Nicolas Linear codes with complementary duals meet the Gilbert-Varshamov bound. (English summary) **2005d:94212**
Shany, Yaron Toward an explicit construction of nonlinear codes exceeding the Tsfasman-Vlăduţ-Zink bound. (English summary) **2005f:94171**
Sobha, Gangmei *see* **Berardi, Luigia et al.**, **2005a:94116**
Vardy, Alexander *see* **Jiang, Tao[5]**, **2005e:94296**
Vicente, Renato *see* **Saad, David et al.**, (**2005b:94001**)
Xing, Chaoping *see* **Fu, Fang Wei et al.**, **2005a:94117**
Zyablov, Viktor V. *see* **Handlery, Marc et al.**

Items with secondary classifications in 94B65

Alon, Noga (*with* Stav, Uri) New bounds on parent-identifying codes: the case of multiple parents. (English summary) **2005h:94083**
Arvind, V. (*with* Kurur, Piyush P.; Parthasarathy, Kalyanapuram Rangachari) Non-stabilizer quantum codes from abelian subgroups of the error group. (English summary) **2005m:81056**
Be'ery, Yair *see* **Shany, Yaron et al.**, **2005c:94078**
Bouyukliev, Iliya (*with* Grassl, Markus; Varbanov, Zlatko) New bounds for $n_4(k, d)$ and classification of some optimal codes over GF(4). (English summary) **2005g:94094**
Breiling, Marco A logarithmic upper bound on the minimum distance of turbo codes. (English summary)
Bshouty, Nader H. (*with* Burroughs, Lynn) Maximizing agreements and coagnostic learning. (English summary) (*see* **2005a:68003**)
Burroughs, Lynn *see* **Bshouty, Nader H.**, (**2005a:68003**)
Chen, Wen De (*with* Kløve, Torleiv) Finite projective geometries and classification of the weight hierarchies of codes. I. (English summary) **2005d:94189**
Daskalov, R. N. (*with* Gulliver, T. Aaron) New bounds for the minimum distance of linear codes over small fields. (Russian. Russian summary) **2005e:94253**
— (*with* Hristov, Plamen) One-generator quasi-cyclic quaternary linear codes and construction X. (English summary) **2005c:94077**
De Bonis, Annalisa (*with* Vaccaro, Ugo) Efficient constructions of generalized superimposed codes with applications to group testing and conflict resolution in multiple access channels. (English summary) (*see* **2005c:68002**)
Dey, Bikash Kumar On existence of good self-dual quasi-cyclic codes. (English summary) **2005e:94275**
— (*with* Rajan, B. Sundar) $\mathbf{F}_q$-linear cyclic codes over $\mathbf{F}_{q^m}$: DFT approach. (English summary) **2005m:94046**
Dougherty, Steven T. (*with* Shiromoto, Keisuke) Maximum distance codes in $\mathrm{Mat}_{n,s}(\mathbb{Z}_k)$ with a non-Hamming metric and uniform distributions. (English summary) **2005h:94085**
Dumer, I. I. Recursive decoding and its performance for low-rate Reed-Muller codes. (English summary) **2005e:94283**
Fitzgerald, Robert W. (*with* Yucas, Joseph L.) Sums of Gauss sums and weights of irreducible codes. (English summary) **2005k:11236**
Fossorier, Marc P. C. *see* **Valembois, Antoine**, **2005d:94204**
Galand, F. On the minimum distance of some families of $\mathbb{Z}_{2^k}$-linear codes. (English summary) **2005a:94092**
Grassl, Markus *see* **Bouyukliev, Iliya et al.**, **2005g:94094**
Gulliver, T. Aaron (*with* Östergård, Patric R. J.) Binary optimal linear rate 1/2 codes. (English summary) **2005a:94094**
— *see also* **Daskalov, R. N.**, **2005e:94253**
Güneri, Cem Artin-Schreier curves and weights of two-dimensional cyclic codes. (English summary) **2005k:14051**
Hristov, Plamen *see* **Daskalov, R. N.**, **2005c:94077**
Hyun, Jong Yoon (*with* Kim, Hyun Kwang) The poset structures admitting the extended binary Hamming code to be a perfect code. (English summary) **2005h:94072**
Jain, Sapna (*with* Nam, Ki-Bong) Bound for burst error correction with Lee weight. (English summary) **2005i:94018**
Justesen, Jørn Upper bounds on the number of errors corrected by a convolutional code. (English summary) **2005e:94272**
Kerenidis, Iordanis (*with* de Wolf, Ronald) Exponential lower bound for 2-query locally decodable codes via a quantum argument. (English summary) **2005e:68042**
Kim, Hyun Kwang *see* **Hyun, Jong Yoon**, **2005h:94072**
Klapper, Andrew Improved multicovering bounds from linear inequalities and supercodes. (English summary) **2005a:94118**
Kløve, Torleiv *see* **Chen, Wen De**, **2005d:94189**
Kurur, Piyush P. *see* **Arvind, V. et al.**, **2005m:81056**
Li, Lei[3] (*with* Long, Shoulun) New constructions of constant-weight codes. (English summary) **2005d:94208**
Ling, San (*with* Solé, Patrick) Good self-dual quasi-cyclic codes over F_q, q odd. (English summary) **2005d:94198**
Long, Shoulun *see* **Li, Lei[3]**, **2005d:94208**
MacKay, David J. C. Almost-certainly runlength-limiting codes. (English summary) (*see* **2005b:94001**)
Martínez-Pérez, Conchita (*with* Willems, Wolfgang) On the weight hierarchy of product codes. (English summary) **2005f:94155**
Minbashian, F. David The group structure of irreducible polynomials over finite fields. (English summary) **2005c:11155**
Mullen, Gary L. (*with* Shcherbakov, Viktor Alekseevich) n-T-quasigroup codes with one check symbol and their error detection capabilities. (English summary) **2005g:94132**
Munuera Gómez, Carlos (*with* Torres, Fernando) Bounding the trellis state complexity of algebraic geometric codes. (English summary) **2005g:94120**
Nam, Ki-Bong *see* **Jain, Sapna**, **2005i:94018**
Niederreiter, Harald (*with* Özbudak, Ferruh) Constructive asymptotic codes with an improvement on the Tsfasman-Vlăduţ-Zink and Xing bounds. (English summary) **2005e:94278**
Östergård, Patric R. J. *see* **Gulliver, T. Aaron**, **2005a:94094**
Özbudak, Ferruh *see* **Niederreiter, Harald**, **2005e:94278**
Parthasarathy, Kalyanapuram Rangachari *see* **Arvind, V. et al.**, **2005m:81056**
Quistorff, Jörn Slight improvements of the Singleton bound. (English summary) **2005d:94192**
Rajan, B. Sundar *see* **Dey, Bikash Kumar**, **2005m:94046**
Reuven, Ilan *see* **Shany, Yaron et al.**, **2005c:94078**
Rosnes, Eirik (*with* Ytrehus, Øyvind) High rate convolutional codes with optimal cycle weights. (English summary) **2005e:94266**
Roth, Ron M. *see* **Ruckenstein, Gitit**, **2005b:94064**
Ruckenstein, Gitit (*with* Roth, Ron M.) Bounds on the list-decoding radius of Reed-Solomon codes. (English summary) **2005b:94064**
Russeva, Assia P. On the characterization of plane $(q^2 + sq + s + 1, q + s + 1)$-arcs. (English summary) **2005a:51017**
Shany, Yaron (*with* Reuven, Ilan; Be'ery, Yair) Lower bounds on the state complexity of linear tail-biting trellises. (English summary) **2005c:94078**
Shcherbakov, Viktor Alekseevich *see* **Mullen, Gary L.**, **2005g:94132**
Shiromoto, Keisuke *see* **Dougherty, Steven T.**, **2005h:94085**
Solé, Patrick *see* **Ling, San**, **2005d:94198**
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Tardos, Gábor Optimal probabilistic fingerprint codes. (English summary) **2005j:94040**
Torres, Fernando *see* **Munuera Gómez, Carlos**, **2005g:94120**
Vaccaro, Ugo *see* **De Bonis, Annalisa**, (**2005c:68002**)
Valembois, Antoine (*with* Fossorier, Marc P. C.) Box and match techniques applied to soft-decision decoding. (English summary) **2005d:94204**
Varbanov, Zlatko *see* **Bouyukliev, Iliya et al.**, **2005g:94094**
Ward, Harold N. A sequence of unique quaternary Griesmer codes. (English summary) **2005g:94102**
Willems, Wolfgang *see* **Martínez-Pérez, Conchita**, **2005f:94155**
de Wolf, Ronald *see* **Kerenidis, Iordanis**, **2005e:68042**
Ytrehus, Øyvind *see* **Rosnes, Eirik**, **2005e:94266**
Yucas, Joseph L. *see* **Fitzgerald, Robert W.**, **2005k:11236**

94B70 Error probability

Abdel-Ghaffar, Khaled A. S. A simple derivation of the undetected error probabilities of complementary codes. (English summary) **2005d:94213**
Dubrova, Elena (*with* Sack, Harald) Probabilistic equivalence checking of multiple-valued functions. (English summary) **2005h:94087**
Fossorier, Marc P. C. *see* **Valembois, Antoine**
Khandani, Amir K. *see* **Yousefi, Shahram**
Lentmaier, Michael (*with* Trukhachev, D. V.; Zigangirov, Kamil Sh.) Analytic expressions for the bit error probabilities of rate-1/2 memory 2 convolutional encoders. (English summary)
Lev, Alexandr Y. (*with* Lev, Yuliy A.; Okhrymenko, Vyacheslav N.) Non-binary block inseparable errors control codes. (English summary) (*see* **2005b:94001**)
Lev, Yuliy A. *see* **Lev, Alexandr Y. et al.**, (**2005b:94001**)
Liu, Wen An (*with* Zhang, Qi Min; Nie, Zan Kan) Optimal error-correcting codes for asymmetric channels with feedback. (Chinese. English and Chinese summaries) **2005b:94070**
Nie, Zan Kan *see* **Liu, Wen An et al., 2005b:94070**
Okhrymenko, Vyacheslav N. *see* **Lev, Alexandr Y. et al.**, (**2005b:94001**)
Sack, Harald *see* **Dubrova, Elena, 2005h:94087**
Trukhachev, D. V. *see* **Lentmaier, Michael et al.**
Valembois, Antoine (*with* Fossorier, Marc P. C.) Sphere-packing bounds revisited for moderate block lengths. (English summary)
Yousefi, Shahram (*with* Khandani, Amir K.) A new upper bound on the ML decoding error probability of linear binary block codes in AWGN interference. (English summary)
Zhang, Qi Min *see* **Liu, Wen An et al., 2005b:94070**
Zigangirov, Kamil Sh. *see* **Lentmaier, Michael et al.**

Items with secondary classifications in 94B70

Sason, Igal (*with* Urbanke, Rüdiger L.) Complexity versus performance of capacity-achieving irregular repeat-accumulate codes on the binary erasure channel. (English summary) **2005e:94063**
Urbanke, Rüdiger L. *see* **Sason, Igal, 2005e:94063**

94B75 Applications of the theory of convex sets and geometry of numbers (covering radius, etc.) [see also 11H31]

Borisov, Yurīĭ Fedorovich (*with* Braeken, An; Nikova, Svetla; Preneel, Bart) On the covering radius of second order binary Reed-Muller code in the set of resilient Boolean functions. (English summary) **2005e:94297**
Braeken, An *see* **Borisov, Yurīĭ Fedorovich et al., 2005e:94297**
Castro, Francis N. *see* **Moreno, Oscar, 2005d:94215**
Harada, Masaaki (*with* Ozeki, Michio; Tanabe, Kenichiro) On the covering radius of ternary extremal self-dual codes. (English summary) **2005d:94214**
Klapper, Andrew Improved multicovering bounds from linear inequalities and supercodes. (English summary) **2005a:94118**
Mertz, Andrew On the complexity of multicovering radii. (English summary) **2005e:94298**
Mitton, Michel Theoretical upper bounds on the covering radii of Boolean functions. (English summary) **2005f:94172**
Moreno, Oscar (*with* Castro, Francis N.) Divisibility properties for covering radius of certain cyclic codes. (English summary) **2005d:94215**
Nikova, Svetla *see* **Borisov, Yurīĭ Fedorovich et al., 2005e:94297**
Ozeki, Michio *see* **Harada, Masaaki et al., 2005d:94214**
Preneel, Bart *see* **Borisov, Yurīĭ Fedorovich et al., 2005e:94297**
Tanabe, Kenichiro *see* **Harada, Masaaki et al., 2005d:94214**

Items with secondary classifications in 94B75

Davydov, Aleksandr A. (*with* Marcugini, Stefano; Pambianco, Fernanda) Linear codes with covering radius 2, 3 and saturating sets in projective geometry. (English summary) **2005a:94090**
Iwata, Tetsu *see* **Kurosawa, Kaoru, 2005a:94060**
Kurosawa, Kaoru (*with* Iwata, Tetsu) New covering radius of Reed-Muller codes for t-resilient functions. (English summary) **2005a:94060**
Marcugini, Stefano *see* **Davydov, Aleksandr A. et al., 2005a:94090**
Pambianco, Fernanda *see* **Davydov, Aleksandr A. et al., 2005a:94090**
Rodier, François Sur la non-linéarité des fonctions booléennes. [On the nonlinearity of Boolean functions] **2005m:11231**

94B99 None of the above, but in this section

Kabashima, Yoshiyuki (*with* Saad, David) Statistical mechanics of low-density parity-check codes. (English summary) **2005m:94052**
Konstantinidis, Stavros Error-detecting properties of languages. (English summary) **2005g:94139**
Saad, David *see* **Kabashima, Yoshiyuki, 2005m:94052**

Items with secondary classifications in 94B99

Cohen, Joel E. (*with* Kemperman, Johannes H. B.; Zbăganu, Gheorghiță) A family of inequalities originating from coding of messages. (English summary) **2005h:26025**
Cummings, Larry Divisibility exponents and the Zimin recursion. (English summary) **2005c:94031**
Farr, Graham Some results on generalised Whitney functions. (English summary) **2005a:05052**
González Jiménez, Santos (*with* Markov, Viktor T.; Martínez López, Consuelo; Nechaev, Aleksandr A.; Rúa, Ignacio F.) On cyclic top-associative generalized Galois rings. (English summary) **2005h:17006**
Hadjicostis, Christoforos N. *see* **Wu, Yingquan, 2005k:65099**
Katz, Jonathan[2] (*with* Trevisan, Luca) On the efficiency of local decoding procedures for error-correcting codes. (*see* **2005i:68003**)
Kemperman, Johannes H. B. *see* **Cohen, Joel E. et al., 2005h:26025**
Leu, Yung-Ho *see* **Tang, Shyue-Ming et al., 2005e:05139**
Markov, Viktor T. *see* **González Jiménez, Santos et al., 2005h:17006**
Martínez López, Consuelo *see* **González Jiménez, Santos et al., 2005h:17006**
Nechaev, Aleksandr A. *see* **González Jiménez, Santos et al., 2005h:17006**
Rúa, Ignacio F. *see* **González Jiménez, Santos et al., 2005h:17006**
Sharma, Bhu Dev (*with* Sookoo, Norris) The difference matrices of the classes of a Sharma-Kaushik partition. (English summary) **2005c:05201**
Shearer, James B. Symmetric Golomb squares. (English summary)
Sidel′nikov, V. M. A Mac Williams relation for group association schemes. (Russian) **2005k:05246**
Sookoo, Norris *see* **Sharma, Bhu Dev, 2005c:05201**
Tang, Shyue-Ming (*with* Wang, Yue-Li; Leu, Yung-Ho) Optimal independent spanning trees on hypercubes. (English summary) **2005e:05139**
Trevisan, Luca Some applications of coding theory in computational complexity. **2005k:68071**
— *see also* **Katz, Jonathan[2]**, (**2005i:68003**)
Wang, Yue-Li *see* **Tang, Shyue-Ming et al., 2005e:05139**
Wu, Yingquan (*with* Hadjicostis, Christoforos N.) On solving composite power polynomial equations. (English summary) **2005k:65099**
Zbăganu, Gheorghiță *see* **Cohen, Joel E. et al., 2005h:26025**

94Cxx Circuits, networks

Items with secondary classifications in 94Cxx

Peleg, David (*with* Sibeyn, Jop F.) Preface [Structural information and communication complexity].
Sibeyn, Jop F. *see* **Peleg, David**

94C05 Analytic circuit theory

Adachi, Susumu *see* **Lee, Jia et al.**
Aeyels, Dirk *see* **Moreau, Luc[2], 2005k:94039**
Alì, Giuseppe (*with* Bartel, Andreas) A priori estimates for multiphysics models in electric circuit design. (English summary) (*see* **2005a:00022**)
— (*with* Bartel, Andreas) Multi-physics models in electric network design. (English summary) (*see* **2005c:00016**)
Allen, Jeffery C. ★ H^∞ engineering and amplifier optimization. **2005f:94173**
Artioli, Marcello *see* **Filippetti, Fiorenzo, 2005h:94088**
Bartel, Andreas *see* **Alì, Giuseppe**, (**2005a:00022**) *and* (**2005c:00016**)
Baskoutas, S. *see* **Jannussis, A.**, (**2005i:00015**)
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Bise, Ryoma (*with* Takahashi, Norikazu; Nishi, Tetsuo) An improvement of the design method of cellular neural networks based on generalized eigenvalue minimization. (English summary) **2005d:94216**
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Burioni, Raffaella (*with* Cassi, Davide; Neri, F. M.) Electrical circuits on mesoscopic Sierpinski gaskets. (English summary)
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Damavandi, Nader (*with* Safavi-Naeini, Safieddin) A hybrid evolutionary programming method for circuit optimization. (English summary)
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Houben, S. H. M. J. Simulating multi-tone free-running oscillators with optimal sweep following. (English summary) (*see* **2005a:00022**)
Hu, Han Ping[1] *see* **Liu, Ling[1] et al., 2005d:94217**
Jannussis, A. (*with* Baskoutas, S.) Time dependent Hamilton operator of an RLC circuit with a source. (English summary) (*see* **2005i:00015**)
Janssen, Erwin *see* **Reefman, Derk et al., 2005m:94054**
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Laudebat, Lionel (*with* Bidan, Pierre; Montseny, Gérard) Modeling and optimal identification of pseudodifferential electrical dynamics by means of diffusive representation I. Modeling. (English summary) **2005e:94302**

Law, K. K. (*with* Cheng, K. W. E.; Yeung, Y. P. Benny) Design and analysis of switched-capacitor-based step-up resonant converters. (English summary)

Lee, Jia (*with* Peper, Ferdinand; Adachi, Susumu; Mashiko, Shinro) Universal delay-insensitive systems with buffering lines. (English summary)

Lehman, Brad *see* **Mihajlovic, Zoran et al.**

Ling, Bingo Wing-Kuen (*with* Chan, Albert Yick-Po; Wong, Thomas Pak-Lin; Tam, Peter Kwong-Shun) Autonomous response of a third-order digital filter with two's complement arithmetic realized in parallel form. (English summary)

Liu, Ling[1] (*with* Wu, Xiao Gang; Hu, Han Ping[1]) Estimating system parameters of Chua's circuit from synchronizing signal. (English summary) **2005d:94217**

Long, John R. *see* **Tasić, Aleksandar et al.**

Lu, Qing-Lin Catalan numbers, Lucas numbers, and circuits. (English summary) **2005h:94089**

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Mendler, Michael *see* **Norton, Barry et al.**, (**2005b:68010**)

Mihajlovic, Zoran (*with* Lehman, Brad; Sun, Chunxiao) Output ripple analysis of switching DC-DC converters. (English summary)

Mishra, Pramod Kumar Complexity of VLSI using optimal discrete Fourier transform. (English summary)

Montseny, Gérard *see* **Laudebat, Lionel et al.**, **2005e:94302**

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Neri, F. M. *see* **Burioni, Raffaella et al.**

Nishi, Tetsuo *see* **Bise, Ryoma et al.**, **2005d:94216**

Norton, Barry (*with* Lüttgen, Gerald; Mendler, Michael) A compositional semantic theory for synchronous component-based design. (English summary) (*see* **2005b:68010**)

Pelap, François B. (*with* Faye, Mansour M.) Solitonlike excitations in a one-dimensional electrical transmission line. (English summary) **2005m:94053**

Peper, Ferdinand *see* **Lee, Jia et al.**

Preneel, Bart *see* **Quisquater, Michaël et al.**, **2005g:94142**

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Serdijn, Wouter A. *see* **Tasić, Aleksandar et al.**

Stehmann, T. (*with* Heiss, W. Dieter; Scholtz, Frederik G.) Observation of exceptional points in electronic circuits. (English summary)

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Sun, Chunxiao *see* **Mihajlovic, Zoran et al.**

Tadeusiewicz, Michał (*with* Hałgas, Stanisław) Computing multivalued input-output characteristics in the circuits containing bipolar transistors. (English summary) **2005d:94218**

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Tam, Peter Kwong-Shun *see* **Ling, Bingo Wing-Kuen et al.**

Tariboon, Jessada On the application of the periodic distribution $e^{\alpha t}\delta_T^{(k)}$ to the electrical networks. (English summary)

Tasić, Aleksandar (*with* Serdijn, Wouter A.; Long, John R.) Adaptivity of voltage-controlled oscillators—theory and design. (English summary)

Thompson, Mark[2] (*with* Fidler, J. Kel) Determination of the impedance matching domain of impedance matching networks. (English summary)

Vanassche, Piet (*with* Gielen, Georges; Sansen, Willy) Efficient analysis of slow-varying oscillator dynamics. (English summary) **2005e:94303**

Vandewalle, Joos *see* **Quisquater, Michaël et al.**, **2005g:94142**

Wong, Thomas Pak-Lin *see* **Ling, Bingo Wing-Kuen et al.**

Wu, F. Y. Theory of resistor networks: the two-point resistance. (English summary) **2005d:94219**

Wu, Xiao Gang *see* **Liu, Ling[1] et al.**, **2005d:94217**

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Zemanian, Armen H. Hyperreal operating points in transfinite resistive networks. (English summary) **2005d:94220**

Items with secondary classifications in 94C05

Adli, Mehmet Arif *see* **Doğruel, M.**, **2005k:93129**

Algaba, Antonio (*with* Gamero, Estanislao; Rodríguez-Luis, Alejandro J.) A bifurcation analysis of a simple electronic circuit. (English summary) **2005f:34115**

Allender, Eric Arithmetic circuits and counting complexity classes. **2005m:68071**

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Bessmertnyĭ, M. F. On realizations of rational matrix functions of several complex variables. **2005d:47023**

Bonilla, Luis L. (*with* Kindelan, Manuel; Keller, Joseph B.) Periodically generated propagating pulses. (English summary) **2005m:34122**

Bowong, Samuel (*with* Moukam Kakmeni, F. M.; Koina, Rodoumta) A new synchronization principle for a class of Lur'e systems with applications in secure communication. (English summary) **2005c:93078**

Chaves, Ricardo *see* **Sousa, Leonel**, **2005m:68027**

Chen, Guanrong *see* **Han, Fengling et al.**, **2005g:34098**

Chu, Min (*with* Allstot, David J.) Elitist nondominated sorting genetic algorithm based RF IC optimizer. (English summary)

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De Feo, Oscar *see* **Maggio, Gian Mario et al.**, **2005d:34064**

Denk, Georg (*with* Meintrup, David; Schäffler, Stefan) Transient noise simulation: modeling and simulation of $1/f$-noise. (English summary) **2005a:60103**

Doğruel, M. (*with* Adli, Mehmet Arif) Hybrid state approach for modelling electrical and mechanical systems. (English summary) **2005k:93129**

Duan, Zhi-Sheng (*with* Wang, Jin-Zhi; Huang, Lin[1]) Multi-input and multi-output nonlinear systems: interconnected Chua's circuits. (English summary) **2005f:34130**

Feng, Yong[2] *see* **Han, Fengling et al.**, **2005g:34098**

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Gao, Ying-hui Bifurcations and stability boundary of a power system. (English summary) **2005h:34104**

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Grolmusz, Vince Computing elementary symmetric polynomials with a subpolynomial number of multiplications. (English summary) **2005a:13051**

Günther, Michael M. Preconditioned splitting in dynamic iteration schemes for coupled DAE systems in RC network design. (English summary) (*see* **2005a:00022**)

Han, Fengling (*with* Lü, Jinhu; Yu, Xinghuo; Chen, Guanrong; Feng, Yong[2]) Generating multi-scroll chaotic attractors via a linear second-order hysteresis system. (English summary) **2005g:34098**

Huang, Lin[1] *see* **Duan, Zhi-Sheng et al.**, **2005f:34130**

Itoh, Makoto (*with* Chua, Leon O.) Multipurpose hysteresis CNN. (English summary) **2005i:37031**

Jiang, Yao-Lin On time-domain simulation of lossless transmission lines with nonlinear terminations. (English summary) **2005i:65111**

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Keller, Joseph B. *see* **Bonilla, Luis L. et al.**, **2005m:34122**

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Kuznetsov, Dmitriĭ Yur'evich[1] (*with* Nazarov, A. A.) Investigation of a communication network governed by an adaptive random access protocol under critical load conditions. (Russian. Russian summary) **2005g:68005**

Li, Guang Hui[2] (*with* Li, Xiao Wei) Combinational equivalence checking based on incremental satisfiability. (Chinese. English and Chinese summaries)

Li, Hong Xing *see* **You, Fei et al.**

Li, Xiao Wei *see* **Li, Guang Hui[2]**

Li, Zhengguo (*with* Soh, Yeng Chai; Wen, Changyun) ★ Switched and impulsive systems. **2005k:93001**

Lü, Jinhu *see* **Han, Fengling et al.**, **2005g:34098**

Ma, Yue[2] (*with* Kawakami, Hiroshi; Tse, Chi K.) Bifurcation analysis of switched dynamical systems with periodically moving borders. (English summary) **2005c:37090**

Maggio, Gian Mario (*with* De Feo, Oscar; Kennedy, Michael P.) A general method to predict the amplitude of oscillation in nearly sinusoidal oscillators. (English summary) **2005d:34064**

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Rommes, J. (*with* van der Vorst, Henk A.; ter Maten, E. Jan W.) Jacobi-Davidson methods and preconditioning with applications in pole-zero analysis. (English summary) (*see* **2005a:00022**)

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Shi, Guoyong (*with* Shi, C.-J. Richard) Model-order reduction by dominant subspace projection: error bound, subspace computation, and circuit applications. (English summary) **2005m:68264**

Soh, Yeng Chai *see* **Li, Zhengguo et al.**, **2005k:93001**

Sousa, Leonel (*with* Chaves, Ricardo) A universal architecture for designing efficient

modulo $2^n + 1$ multipliers. (English summary) **2005m:68027**
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Items listed otherwise than by author

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— Parallelization of methods to calculate Walsh spectra for logic functions. (English summary)
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Pan, Wei Zhen (*with* Xiao, Lin Rong; Chen, Xie Xiong) Method for minimization of SUBTRACTION-NOT and DIVISION-NOT expansions of logic functions. (Chinese. English and Chinese summaries) **2005f:94176**
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Pasalic, Enes Degree optimized resilient Boolean functions from Maiorana-McFarland class. (English summary) **2005e:94308**
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Pogossova, Ekaterina (*with* Egiazarian, Karen O.) Reed-Muller representation of symmetric functions. (English summary) **2005e:94309**
Popel′, Dènis V. (*with* Yanushkevich, S. N.) Modeling combinational circuits using linear word-level representations. (Russian. Russian summary) **2005h:94092**
Prasad, Mohit K. Stack filter design using selection probabilities. (English summary)
Preneel, Bart *see* **Quisquater, Michaël et al.**
Quisquater, Michaël (*with* Preneel, Bart; Vandewalle, Joos) Spectral characterization of cryptographic Boolean functions satisfying the (extended) propagation criterion of degree l and order k. (English summary)
Rahardja, Susanto (*with* Fal′kovski, B.) Fast mixed linearly independent arithmetic logic transforms for multiple-valued functions. (English summary)
Rocchi, S. *see* **Alioto, M. et al.**
Ruehli, Albert E. *see* **Gander, Martin J., 2005d:94228**
Saïzlend, R. (*with* Xie, Y.) Representation of logic circuits by linear decision diagrams for the purposes of rapid prototyping. (Russian. Russian summary) **2005d:94231**
Savov, V. N. (*with* Georgiev, Zh. D.; Todorov, T. G.) Analysis of oscillations in quasi-conservative strongly nonlinear oscillator systems. (English summary) **2005b:94072**
Shkrebela, I. S. On the complexity of the realization of linear Boolean functions by circuits of functional elements in the basis $\{x \to y, \overline{x}\}$. (Russian. Russian summary) **2005b:94073**
Shmerko, V. P. Malyugin's theorems: a new concept in logical control, VLSI design, and data structures for new technologies. (Russian. Russian summary) **2005h:94093**
— *see also* **Dzyuzhan′ski, P. et al., 2005f:94174** *and* **Yanushkevich, S. N. et al., 2005k:94041**
Shmulevich, Ilya *see* **Just, Winfried et al., 2005e:94307**
Stănică, Pantelimon *see* **Clark, John A. et al.**
Stanković, Milena *see* **Astola, Jaakko T. et al., 2005d:94221**

Stanković, Radomir S. (*with* Moraga, Claudio; Astola, Jaakko T.) Reed-Muller expressions in the previous decade. (English summary) **2005f:94177**
— Arithmetic transform ternary decision diagrams for exact minimization of fixed-polarity arithmetic expressions. (English summary) **2005e:94310**
— *see also* **Astola, Jaakko T. et al., 2005d:94221**; **Karpovsky, Mark G. et al., 2005d:94230** *and* **Jankovic, Dragan et al., 2005g:94145**
Tapia-Recillas, Horacio Some binary bent functions arising from bent functions over $\mathbb{Z}_4$. (English summary) **2005b:94074**
Tarasov, V. V. Boolean functions with improper parameters. (Russian. Russian summary) **2005g:94146**
— On the indication of external factors by circuits of multivalued functional elements. (Russian. Russian summary)
Thornton, Mitchell A. Mixed representation of multiple-valued logic functions by spectra and decision diagrams. (Russian. Russian summary) **2005f:94178**
— (*with* Miller, D. Michael) Computation of discrete function Chrestenson spectrum using Cayley color graphs. (English summary) **2005d:94232**
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Tu, Chao-Kai *see* **Chang, Cheng-Shang et al.**
Vandewalle, Joos *see* **Quisquater, Michaël et al.**
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Wagner, Christopher G. *see* **Cowen, Lenore J., 2005a:94119**
Wu, Chuan-Kun *see* **Zhang, Wen Ying[1] et al.**
Wu, Gui Chu (*with* Liu, Guan Sheng; Chen, Xie Xiong) A new method for calculating Boolean differences based on b_j maps. (Chinese. English and Chinese summaries) **2005a:94120**
Xiao, Lin Rong (*with* Chen, Xie Xiong; Li, Xiao Hua) Standard expansions of a logic function in Boolean subtraction-XOR, division-coincidence algebraic system. (Chinese. English and Chinese summaries)
— *see also* **Pan, Wei Zhen et al., 2005f:94176**
Xie, Min[4] (*with* Pei, Ding Yi) Construction of resilient functions and best functions with three-value Walsh spectra. (Chinese. English and Chinese summaries) **2005c:94094**
— (*with* Pei, Ding Yi) On the number of 5-variable best Boolean functions. (Chinese. English and Chinese summaries) **2005m:94058**
Xie, Y. *see* **Saïzlend, R., 2005d:94231**
Yanushkevich, S. N. Multiplicative properties of spectral Walsh coefficients of a Boolean function. (Russian. Russian summary) **2005d:94233**
— (*with* Shmerko, V. P.; Malyugin, V. D.; Dzyuzhan′ski, P.; Tomaszewska, A. M.) Linearity of word-level representations of multiple-valued networks. (English summary) **2005k:94041**
— *see also* **Dzyuzhan′ski, P. et al., 2005f:94174** *and* **Popel′, Dènis V., 2005h:94092**
Yücel, Melek D. *see* **Kavut, Selçuk, (2005d:94154)**
Zakrevskiĭ, A. D. Algorithms for synthesizing polynomials that implement weakly specified Boolean functions and systems. (Russian. Russian summary) **2005g:94148**
Zhang, Wen Ying[1] (*with* Wu, Chuan-Kun; Li, Shi Qu) Construction of cryptographically important Boolean permutations. (English summary)
— (*with* Li, Shi Qu) Analysis of 3-dimensional bent functions of degree 3 on $GF^6(2)$. (Chinese. English and Chinese summaries) **2005f:94179**
Zhukov, D. A. On the computation of partial Boolean functions by cellular schemes. (Russian. Russian summary) **2005f:94180**
Zwick, Martin *see* **Al-Rabadi, Anas N. et al., 2005e:94304** *and* **2005g:94143**

Items with secondary classifications in 94C10

Allender, Eric (*with* Bernasconi, Anna; Damm, Carsten; von zur Gathen, Joachim; Saks, Michael; Shparlinski, Igor E.) Complexity of some arithmetic problems for binary polynomials. (English summary) **2005b:68119**
Amano, Kazuyuki (*with* Maruoka, Akira) On learning monotone Boolean functions under the uniform distribution. (English summary) (*see* **2005a:68003**)
Astola, Jaakko T. *see* **Stanković, Milena et al., 2005c:94021**
Avedillo, María J. *see* **Quintana, José María et al., 2005b:94057**
Barrett, Chris L. (*with* Chen, William Y. C.; Zheng, Michelle J.) Discrete dynamical systems on graphs and Boolean functions. (English summary) **2005b:37025**
Bernasconi, Anna *see* **Allender, Eric et al., 2005b:68119**
Borisov, Yuriĭ Fedorovich (*with* Braeken, An; Nikova, Svetla; Preneel, Bart) On the covering radius of second order binary Reed-Muller code in the set of resilient Boolean functions. (English summary) **2005e:94297**
Boutros, Joseph *see* **Leveiller, Sabine et al., 2005d:94127**
Braeken, An *see* **Borisov, Yuriĭ Fedorovich et al., 2005e:94297**
Braxmeier, Hans (*with* Schmidt, Volker[1]; Spodarev, Eugene) Spatial extrapolation of anisotropic road traffic data. (English summary)
Cai, Jin-Yi *see* **Kabanets, Valentine, (2005i:68003)**
Cárdenas Martín, Santiago *see* **Ramos, José Fernández et al., 2005a:68102**
Carlet, Claude (*with* Gouget, Aline) An upper bound on the number of m-resilient Boolean functions. (English summary) **2005e:94122**
— On the secondary constructions of resilient and bent functions. (English summary) **2005d:94092**
— On the degree, nonlinearity, algebraic thickness, and nonnormally of Boolean functions, with developements on symmetric functions. (English summary)
Caulfield, H. John (*with* Westphal, Jonathan) The logic of optics and the optics of logic. (English summary) **2005a:03055**
Chashkin, A. V. On the reconstruction of a Boolean function from its values in a limited number of domains. (Russian. Russian summary) **2005e:06020**
— Modeling circuits consisting of functional elements on a universal Turing machine. (Russian. Russian summary) **2005b:68089**
— On the average monotone complexity of Boolean functions. (Russian. Russian summary) **2005g:68048**
Chauvin, Brigitte (*with* Flajolet, Philippe; Gardy, Danièle; Gittenberger, Bernhard) And/or trees revisited. (English summary) **2005g:68049**
Chekhovich, Yu. V. *see* **Rudakov, K. V.**
Chen, William Y. C. *see* **Barrett, Chris L. et al., 2005b:37025**
Chen, Xiaomin *see* **Szegedy, Mario, 2005g:68043**
Cheremushkin, A. V. Repetition-free decomposition of strongly dependent functions. (Russian. Russian summary) **2005i:20103**
Chu, Wensong *see* **Golomb, Solomon W., 2005c:94037**
Clote, Peter (*with* Kranakis, Evangelos) ★ Boolean functions and computation models. **2005d:68002**
Couceiro, Miguel (*with* Foldes, Stephan) Definability of Boolean function classes by linear equations over GF(2). (English summary) **2005b:06024**
Damm, Carsten *see* **Allender, Eric et al., 2005b:68119**
Dawson, Edward *see* **Wu, Chuan-Kun, 2005a:94071** *and* **Millan, William et al.**
D'Souza, Raissa M. (*with* Homsy, George E.; Margolus, Norman H.) Simulating digital logic with the reversible aggregation model of crystal growth. **2005f:82072**
D'yakonov, A. G. Codings and their use in the disjunctive normal form realization of binary functions. (Russian) **2005c:06012**
Egiazarian, Karen O. *see* **Stanković, Milena et al., 2005c:94021**
Flajolet, Philippe *see* **Chauvin, Brigitte et al., 2005g:68049**
Foldes, Stephan (*with* Pogosyan, Grant R.) Post classes characterized by functional terms. (English summary) **2005d:06017**
— (*with* Hammer, Peter L.) Disjunctive analogues of submodular and supermodular pseudo-Boolean functions. (English summary) **2005f:06015**
— *see also* **Couceiro, Miguel, 2005b:06024**
Frandsen, Gudmund Skovbjerg (*with* Miltersen, Peter Bro) Reviewing bounds on the circuit size of the hardest functions. (English summary) **2005m:68078**
Fu, Pei Li *see* **Zhang, Wen Ying[1] et al., 2005d:94149**
Fuller, Joanne *see* **Millan, William et al.**
Gago Bohórquez, Alfonso *see* **Ramos, José Fernández et al., 2005a:68102**
Gardy, Danièle *see* **Chauvin, Brigitte et al., 2005g:68049**
von zur Gathen, Joachim *see* **Allender, Eric et al., 2005b:68119**
Geche, F. E. (*with* Kotsovs′kiĭ, V. M.) Neuron elements over the ring $\mathbb{Z}_{p^n}$. (Ukrainian. English summary)
— *see also* **Gritsyk, V. V.**
Ghaznavi-Ghoushchi, M. B. (*with* Nabavi, A. R.) Simplification of Boolean functions using Boolean differences. (English summary)
Gittenberger, Bernhard *see* **Chauvin, Brigitte et al., 2005g:68049**
Golomb, Solomon W. (*with* Chu, Wensong) On a Boolean maximization problem. (English summary) **2005c:94037**
Gouget, Aline *see* **Carlet, Claude, 2005e:94122**
Gritsyk, V. V. (*with* Geche, F. E.) Realization of Boolean and multivalued logic functions on neuron elements. (Ukrainian. English summary)
Grolmusz, Vince Computing elementary symmetric polynomials with a subpolynomial number of multiplications. (English summary) **2005a:13051**
Guillot, Philippe *see* **Leveiller, Sabine et al., 2005d:94127**
Gupta, Kishan Chand (*with* Sarkar, Palash) Construction of perfect nonlinear and maximally nonlinear multi-output Boolean functions satisfying higher order strict avalanche criteria (extended abstract). (English summary) (*see* **2005d:94154**)
Halevi, Shai (*with* Krauthgamer, Robert; Kushilevitz, Eyal; Nissim, Kobbi) Private approximation of NP-hard functions. (English summary) (*see* **2005j:68008**)
Hammer, Peter L. *see* **Foldes, Stephan, 2005f:06015**
Homsy, George E. *see* **D'Souza, Raissa M. et al., 2005f:82072**
Huertas, José L. *see* **Quintana, José María et al., 2005b:94057**
Iwama, Kazuo (*with* Morizumi, Hiroki) An explicit lower bound of $5n - o(n)$ for Boolean circuits. (English summary) (*see* **2005b:68019**)
Jain, Surender Kumar *see* **Nagpaul, S. R., 2005m:94002**
Jiang, Yingtao (*with* Wang, Yuke; Song, Xiaoyu; Savaria, Y.) Computation of signal output probability for Boolean functions represented by OBDD. (English summary) **2005d:94035**
Kabanets, Valentine (*with* Cai, Jin-Yi) Circuit minimization problem. (*see* **2005i:68003**)
Kari, Lila (*with* Konstantinidis, Stavros; Sosík, Petr) Substitution on trajectories. (English summary) **2005h:68077**
Kenyon, Claire (*with* Kutin, Samuel) Sensitivity, block sensitivity, and l-block sensitivity of Boolean functions. (English summary) **2005b:68137**
Klauck, Hartmut Quantum and classical communication-space tradeoffs from rectangle bounds (extended abstract). (English summary) (*see* **2005m:68007**)
Köbler, Johannes (*with* Lindner, Wolfgang) A general dimension for approximately learning Boolean functions. (English summary) (*see* **2005a:68003**)
Kolpakov, A. (*with* Latypov, R. Kh.) Approximate algorithms for the minimization of binary decision diagrams on the basis of linear transformations of variables. (Russian. Russian summary) **2005d:68037**
Konstantinidis, Stavros *see* **Kari, Lila et al., 2005h:68077**
Korshunov, A. D. Monotone Boolean functions. (Russian. Russian summary) **2005b:68139**
Kotsovs′kiĭ, V. M. *see* **Geche, F. E.**
Kranakis, Evangelos *see* **Clote, Peter, 2005d:68002**
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Kurosawa, Kaoru (*with* Matsumoto, Ryutaroh) Almost security of cryptographic Boolean functions. (English summary) **2005f:94109**
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Kutin, Samuel *see* **Kenyon, Claire, 2005b:68137**
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Leporati, Alberto *see* **Mauri, Giancarlo, 2005c:68050**
Leveiller, Sabine (*with* Zémor, Gilles; Guillot, Philippe; Boutros, Joseph) A new cryptanalytic attack for PN-generators filtered by a Boolean function. (English summary) **2005d:94127**
Li, Shi Qu *see* **Zhang, Wen Ying[1] et al., 2005d:94149**
Lindner, Wolfgang *see* **Köbler, Johannes, (2005a:68003)**
Logachëv, O. A. (*with* Sal′nikov, A. A.; Yashchenko, V. V.) Cryptographic properties of discrete functions. (Russian) (*see* **2005g:94088**)
— (*with* Sal′nikov, A. A.; Yashchenko, V. V.) ★ Булевы функции в теории кодирования и криптологии. (Russian) [Boolean functions in coding theory and cryptology] **2005g:94001**

López García, Javier *see* Ramos, José Fernández et al., 2005a:68102
Lüttgen, Gerald *see* Norton, Barry et al., (2005b:68010)
Ma, Zhi (*with* Wang, Ye Qing; Pei, Ding Yi) Study and construction of Boolean functions with given number of non-zero Walsh spectrum values. (Chinese. English and Chinese summaries) 2005a:94063
Maitra, Subhamoy *see* Sarkar, Palash
Margolus, Norman H. *see* D'Souza, Raissa M. et al., 2005f:82072
Markov, Igor L. *see* Shende, Vivek V., 2005m:81067
Maruoka, Akira *see* Amano, Kazuyuki, (2005a:68003)
Matrosova, A. Yu. (*with* Pleshkov, A. G.; Ubar, R. R.) Construction of tests for malfunctions in combinational circuits on the basis of the analysis of orthogonal disjunctive normal forms represented by alternative graphs. (Russian. Russian summary) 2005m:94059
Matsumoto, Ryutaroh *see* Kurosawa, Kaoru, 2005f:94109
Mauri, Giancarlo (*with* Leporati, Alberto) On the computational complexity of conservative computing. (English summary) 2005c:68050
Mendler, Michael *see* Norton, Barry et al., (2005b:68010)
Millan, William (*with* Fuller, Joanne; Dawson, Edward) New concepts in evolutionary search for Boolean functions in cryptology. (English summary)
Miltersen, Peter Bro (*with* Radhakrishnan, Jaikumar; Wegener, Ingo) On converting CNF to DNF. (English summary) 2005c:68212
— *see also* Frandsen, Gudmund Skovbjerg, 2005m:68078
Mitton, Michel Theoretical upper bounds on the covering radii of Boolean functions. (English summary) 2005f:94172
Morizumi, Hiroki *see* Iwama, Kazuo, (2005b:68019)
Nabavi, A. R. *see* Ghaznavi-Ghoushchi, M. B.
Nagpaul, S. R. (*with* Jain, Surender Kumar) ★Topics in applied abstract algebra. 2005m:94002
Nikova, Svetla *see* Borisov, Yuriĭ Fedorovich et al., 2005e:94297
Nissim, Kobbi *see* Halevi, Shai et al., (2005j:68008)
Norton, Barry (*with* Lüttgen, Gerald; Mendler, Michael) A compositional semantic theory for synchronous component-based design. (English summary) (*see* 2005b:68010)
O'Donnell, Ryan (*with* Servedio, Rocco A.) New degree bounds for polynomial threshold functions. (English summary) 2005k:68104
Pei, Ding Yi *see* Ma, Zhi et al., 2005a:94063
Pleshkov, A. G. *see* Matrosova, A. Yu. et al., 2005m:94059
Pogosyan, Grant R. *see* Foldes, Stephan, 2005d:06017
Preneel, Bart *see* Borisov, Yuriĭ Fedorovich et al., 2005e:94297 *and* Quisquater, Michaël et al., 2005g:94142
Quintana, José María (*with* Avedillo, María J.; Huertas, José L.) Simplified Reed-Muller expressions for residue threshold functions. (English summary) 2005b:94057
Quisquater, Michaël (*with* Preneel, Bart; Vandewalle, Joos) A new inequality in discrete Fourier theory. (English summary) 2005g:94142
Radhakrishnan, Jaikumar *see* Miltersen, Peter Bro et al., 2005c:68212
Ramos, José Fernández (*with* López García, Javier; Cárdenas Martín, Santiago; Gago Bohórquez, Alfonso) A new theorem in threshold logic and its application to multioperand binary adders. (English summary) 2005a:68102
Raz, Ran (*with* Shpilka, Amir) Lower bounds for matrix product, in bounded depth circuits with arbitrary gates. (English summary) (*see* 2005j:68008)
Razborov, A. A. On the quantum communication complexity of symmetric predicates. (Russian. Russian summary) 2005e:68051
Rodier, François Sur la non-linéarité des fonctions booléennes. [On the nonlinearity of Boolean functions] 2005m:11231
Rudakov, K. V. (*with* Chekhovich, Yu. V.) Criteria for the completeness of families of correcting operations and models of algorithmic operators for classification problems with set-theoretic restrictions. (Russian)
(Sadovnichiĭ, Viktor Antonovich) *see* Logachëv, O. A. et al., 2005g:94001
Saks, Michael *see* Allender, Eric et al., 2005b:68119
Sal'nikov, A. A. *see* Logachëv, O. A. et al., 2005g:94001 *and* (2005g:94088)
Sarkar, Palash (*with* Maitra, Subhamoy) Construction of nonlinear resilient Boolean functions using "small" affine functions. (English summary)
— *see also* Gupta, Kishan Chand, (2005d:94154)
Sarkar, Saswati Optimum scheduling and memory management in input queued switches with finite buffer space. (English summary) 2005f:90056
Savaria, Y. *see* Jiang, Yingtao et al., 2005d:94035
Schmidt, Volker[1] *see* Braxmeier, Hans et al.
Servedio, Rocco A. On learning embedded midbit functions. (English summary) (*see* 2005a:68003)
— *see also* O'Donnell, Ryan, 2005k:68104
Shende, Vivek V. (*with* Markov, Igor L.) Quantum circuits for incompletely specified two-qubit operators. (English summary) 2005m:81067
Shparlinski, Igor E. *see* Allender, Eric et al., 2005b:68119
Shpilka, Amir *see* Raz, Ran, (2005j:68008)
Šimovcová, Marta (*with* Stanek, Martin) Generating cryptographically strong Boolean functions using partial information. (English summary) 2005f:94121
Skordev, Dimit″r G. Maximal depths of Boolean functions. (English summary) 2005a:06016
Song, Xiaoyu *see* Jiang, Yingtao et al., 2005d:94035
Sosík, Petr *see* Kari, Lila et al., 2005h:68077
Spodarev, Eugene *see* Braxmeier, Hans et al.
Stanek, Martin *see* Šimovcová, Marta, 2005f:94121
Stănică, Pantelimon (*with* Sung, Soo Hak) Boolean functions with five controllable cryptographic properties. (English summary) 2005a:94069
Stanković, Milena (*with* Stanković, Radomir S.; Astola, Jaakko T.; Egiazarian, Karen O.) Fibonacci spectral transforms: calculation, algorithms and circuit realizations. (English summary) 2005c:94021
Stanković, Radomir S. *see* Stanković, Milena et al., 2005c:94021
Sung, Soo Hak *see* Stănică, Pantelimon, 2005a:94069
Szegedy, Mario (*with* Chen, Xiaomin) Computing Boolean functions from multiple faulty copies of input bits. (English summary) 2005g:68043
Tarasov, V. V. On the problem of expressibility in the algebra of partial Boolean functions. (Russian. Russian summary) 2005m:06025
Tohumoğlu, Gülay Analysis of periodically time-varying discrete-time systems in spectral domain. (English summary) 2005h:93100
Travers, Stephen D. The complexity of membership problems for circuits over sets of integers. (English summary) 2005m:68091
Trevisan, Luca Pseudorandomness. II.
Ubar, R. R. *see* Matrosova, A. Yu. et al., 2005m:94059
Ünlüyurt, Tonguç Sequential testing of complex systems: a review. (English summary) 2005g:94150
Vandewalle, Joos *see* Quisquater, Michaël et al., 2005g:94142
Vyalyĭ, M. N. Approximate computation of the weight function of a linear binary code. (Russian. Russian summary) 2005m:81071
Wang, Ye Qing *see* Ma, Zhi et al., 2005a:94063
Wang, Yuke *see* Jiang, Yingtao et al., 2005d:94035
Wegener, Ingo *see* Miltersen, Peter Bro et al., 2005c:68212
Westphal, Jonathan *see* Caulfield, H. John, 2005a:03055
Woods, Alan R. Subset sum "cubes" and the complexity of primality testing. (English summary) 2005g:68044
Wu, Chuan-Kun (*with* Dawson, Edward) Correlation immunity and resiliency of symmetric Boolean functions. (English summary) 2005a:94071
Yashchenko, V. V. *see* Logachëv, O. A. et al., 2005g:94001 *and* (2005g:94088)
Yıldırım, Hamdi Murat Nonlinearity properties of the mixing operations of the block cipher IDEA. (English summary) (*see* 2005d:94154)
Zabaluev, R. N. On the complexity of the realization of Zhegalkin polynomials. (Russian. Russian summary) 2005e:68105
— On the mean complexity of Boolean functions defined by Zhegalkin polynomials. (Russian. Russian summary) 2005h:68052
Zakrevskiĭ, A. D. Optimization problems in a linear Boolean space. (Russian. English and Russian summaries)
Zémor, Gilles *see* Leveiller, Sabine et al., 2005d:94127
Zhang, Wen Ying[1] (*with* Li, Shi Qu; Fu, Pei Li) Construction of multi-output bent functions with highest algebraic degree. (Chinese. English and Chinese summaries) 2005d:94149
Zhang, Xian-Mo *see* Zheng, Yuliang, 2005g:94087
Zheng, Michelle J. *see* Barrett, Chris L. et al., 2005b:37025
Zheng, Yuliang (*with* Zhang, Xian-Mo) The generalized XOR lemma. (English summary) 2005g:94087
Zhukov, D. A. Fast cellular schemes for multiplication. (Russian. Russian summary) 2005b:68145

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Alekhina, M. A. Lower bounds for the reliability of schemes in some bases with single-type constant faults at the inputs of the elements. (Russian. Russian summary) 2005e:94311
— On the complexity of reliable circuits consisting of unreliable elements with single-type constant faults. (Russian. Russian summary) 2005f:94181
Cancela, H. (*with* Petingi, L.) Reliability of communication networks with delay constraints: computational complexity and complete topologies. (English summary) 2005g:94149
Cvetković, Ljubomir An addition to the methods of test determination for fault detection in combinational circuits. (English summary) 2005h:94094
Ding, Steven Xianchun *see* Zhong, Maiying et al., 2005e:94313
Juričić, Đani (*with* Žele, Mina) Robust detection of sensor faults by means of a statistical test. (English summary)
Kleinberg, Jon Detecting a network failure. (English summary) 2005e:94312
Lam, James *see* Zhong, Maiying et al., 2005e:94313
Li, Guang Hui[2] (*with* Li, Xiao Wei) Combinational equivalence checking based on incremental satisfiability. (Chinese. English and Chinese summaries)
Li, Xiao Wei *see* Li, Guang Hui[2]
Macula, Anthony J. Trivial two-stage group testing with high error rates. (English summary) 2005b:94075
Matrosova, A. Yu. (*with* Pleshkov, A. G.; Ubar, R. R.) Construction of tests for malfunctions in combinational circuits on the basis of the analysis of orthogonal disjunctive normal forms represented by alternative graphs. (Russian. Russian summary) 2005m:94059
Nomura, Kumiko *see* Yamada, Toshinori et al., 2005b:94076
Noskov, V. N. Efficient diagnosis of faults in automaton networks. (Russian. Russian summary) 2005m:94060
Oshman, Yaakov *see* Rapoport, Ilia
Petingi, L. *see* Cancela, H., 2005g:94149
Pleshkov, A. G. *see* Matrosova, A. Yu. et al., 2005m:94059
Rapoport, Ilia (*with* Oshman, Yaakov) A new estimation error lower bound for interruption indicators in systems with uncertain measurements. (English summary)
Shi, Peng *see* Zhong, Maiying et al., 2005e:94313
Ubar, R. R. *see* Matrosova, A. Yu. et al., 2005m:94059
Ueno, Shuichi *see* Yamada, Toshinori et al., 2005b:94076
Ünlüyurt, Tonguç Sequential testing of complex systems: a review. (English summary) 2005g:94150
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Yamada, Toshinori (*with* Nomura, Kumiko; Ueno, Shuichi) Sparse networks tolerating random faults. (English summary) 2005b:94076
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Items with secondary classifications in 94C12

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with single-type constant faults at the inputs of elements. (Russian. Russian summary) **2005b:94071**

— On the reliability of schemes in the bases $\{-\!\!\!

Li, Xiang[2] (*with* Wang, Xiao Fan; Chen, Guanrong) Pinning a complex dynamical network to its equilibrium. (English summary) **2005g:94151**
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94D05 Fuzzy sets and logic [see also 03B52, 03E72, 28E10]

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97–XX Mathematics education

97–03 Historical (must also be assigned at least one classification number from Section 01)

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97B40 Higher education

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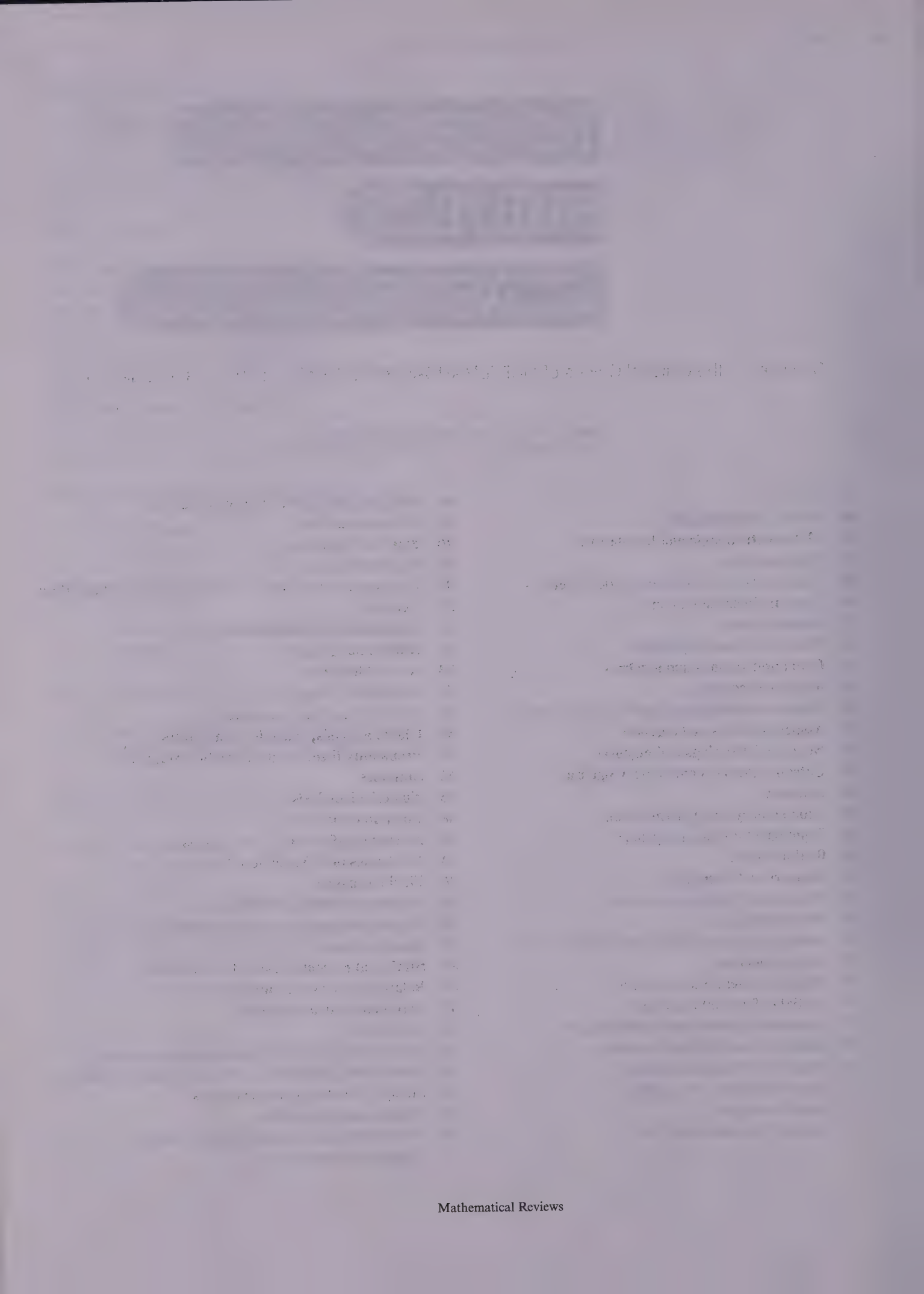
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2000 MATHEMATICS SUBJECT CLASSIFICATION

Compiled in the Editorial Offices of MATHEMATICAL REVIEWS and ZENTRALBLATT MATH

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Mathematics Subject Classification 2000

Mathematics Subject Classification 2000 (MSC2000)

This is a reprint of MSC2000, which has been in use at MR starting with the January 2000 issue. MSC2000 was first printed in the Annual Index for 1999 together with a brief summary of the changes from the 1991 MSC. Conversion tables are available at the AMS website, www.ams.org.

How to use the Mathematics Subject Classification [MSC]

The main purpose of the classification of items in the mathematical literature using the Mathematics Subject Classification scheme is to help users find the items of present or potential interest to them as readily as possible—in products derived from the Mathematical Reviews Database (MRDB), in Zentralblatt MATH, or anywhere else where this classification scheme is used. An item in the mathematical literature should be classified so as to attract the attention of all those possibly interested in it. The item may be something which falls squarely within one clear area of the MSC, or it may involve several areas. Ideally, the MSC codes attached to an item should represent the subjects to which the item contains a contribution. The classification should serve both those closely concerned with specific subject areas, and those familiar enough with subjects to apply their results and methods elsewhere, inside or outside of mathematics. It will be extremely useful for both users and classifiers to familiarize themselves with the entire classification system and thus to become aware of all the classifications of possible interest to them.

Every item in the MRDB receives precisely one *primary* classification, which is simply the MSC code that describes its principal contribution. When an item contains several principal contributions to different areas, the primary classification should cover the most important among them. A paper or book may be assigned one or several secondary classification numbers to cover any remaining principal contributions, ancillary results, motivation or origin of the matters discussed, intended or potential field of application, or other significant aspects worthy of notice.

The principal contribution is meant to be the one including the most important part of the work actually done in the item. For example, a paper whose main overall content is the solution of a problem in graph theory, which arose in computer science and whose solution is (perhaps) at present only of interest to computer scientists, would have a primary classification in 05C (Graph Theory) with one or more secondary classifications in 68 (Computer Science); conversely, a paper whose overall content lies mainly in computer science should receive a primary classification in 68, even if it makes heavy use of graph theory and proves several new graph-theoretic results along the way.

There are two types of cross-references given at the end of many of the entries in the MSC. The first type is in braces: "{For A, see X}"; if this appears in section Y, it means that contributions described by A should usually be assigned the classification code X, not Y. The other type of cross-reference merely points out related classifications; it is in brackets: "[See also ...]", "[See mainly ...]", etc., and the classification codes listed in the brackets may, but need not, be included in the classification codes of a paper, or they may be used in place of the classification where the cross-reference is given. The classifier must judge which classification is the most appropriate for the paper at hand.

00–XX GENERAL
00–01 Instructional exposition (textbooks, tutorial papers, etc.)
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00Axx General and miscellaneous specific topics
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00A15 Bibliographies
00A17 External book reviews
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00B55 Miscellaneous volumes of translations
00B60 Collections of reprinted articles [See also 01A75]

01–XX HISTORY AND BIOGRAPHY [See also the classification number –03 in the other sections]
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01–01 Instructional exposition (textbooks, tutorial papers, etc.)
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01–06 Proceedings, conferences, collections, etc.
01–08 Computational methods
01Axx History of mathematics and mathematicians
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01A80 Sociology (and profession) of mathematics
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03–XX MATHEMATICAL LOGIC AND FOUNDATIONS
03–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
03–01 Instructional exposition (textbooks, tutorial papers, etc.)
03–02 Research exposition (monographs, survey articles)
03–03 Historical (must also be assigned at least one classification number from Section 01)
03–04 Explicit machine computation and programs (not the theory of computation or programming)
03–06 Proceedings, conferences, collections, etc.
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03B05 Classical propositional logic
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03B20 Subsystems of classical logic (including intuitionistic logic)
03B22 Abstract deductive systems

03B25 Decidability of theories and sets of sentences [See also 11U05, 12L05, 20F10]
03B30 Foundations of classical theories (including reverse mathematics) [See also 03F35]
03B35 Mechanization of proofs and logical operations [See also 68T15]
03B40 Combinatory logic and lambda-calculus [See also 68N18]
03B42 Logic of knowledge and belief
03B44 Temporal logic
03B45 Modal logic {For knowledge and belief see 03B42; for temporal logic see 03B44; for provability logic see also 03F45}
03B47 Substructural logics (including relevance, entailment, linear logic, Lambek calculus, BCK and BCI logics) {For proof-theoretic aspects see 03F52}
03B48 Probability and inductive logic [See also 60A05]
03B50 Many-valued logic
03B52 Fuzzy logic; logic of vagueness [See also 68T27, 68T37, 94D05]
03B53 Logics admitting inconsistency (paraconsistent logics, discussive logics, etc.)
03B55 Intermediate logics
03B60 Other nonclassical logic
03B65 Logic of natural languages [See also 68T50, 91F20]
03B70 Logic in computer science [See also 68–XX]
03B80 Other applications of logic
03B99 None of the above, but in this section

03Cxx Model theory

03C05 Equational classes, universal algebra [See also 08Axx, 08Bxx, 18C05]
03C07 Basic properties of first-order languages and structures
03C10 Quantifier elimination, model completeness and related topics
03C13 Finite structures [See also 68Q15, 68Q19]
03C15 Denumerable structures
03C20 Ultraproducts and related constructions
03C25 Model-theoretic forcing
03C30 Other model constructions
03C35 Categoricity and completeness of theories
03C40 Interpolation, preservation, definability
03C45 Classification theory, stability and related concepts
03C50 Models with special properties (saturated, rigid, etc.)
03C52 Properties of classes of models
03C55 Set-theoretic model theory
03C57 Effective and recursion-theoretic model theory [See also 03D45]
03C60 Model-theoretic algebra [See also 08C10, 12Lxx, 13L05]
03C62 Models of arithmetic and set theory [See also 03Hxx]
03C64 Model theory of ordered structures; o-minimality
03C65 Models of other mathematical theories
03C68 Other classical first-order model theory
03C70 Logic on admissible sets
03C75 Other infinitary logic
03C80 Logic with extra quantifiers and operators [See also 03B42, 03B44, 03B45, 03B48]
03C85 Second- and higher-order model theory
03C90 Nonclassical models (Boolean-valued, sheaf, etc.)
03C95 Abstract model theory
03C98 Applications of model theory [See also 03C60]
03C99 None of the above, but in this section

03Dxx Computability and recursion theory

03D03 Thue and Post systems, etc.
03D05 Automata and formal grammars in connection with logical questions [See also 68Q45, 68Q70, 68R15]
03D10 Turing machines and related notions [See also 68Q05]
03D15 Complexity of computation [See also 68Q15, 68Q17]
03D20 Recursive functions and relations, subrecursive hierarchies
03D25 Recursively (computably) enumerable sets and degrees
03D28 Other Turing degree structures
03D30 Other degrees and reducibilities
03D35 Undecidability and degrees of sets of sentences
03D40 Word problems, etc. [See also 06B25, 08A50, 20F10, 68R15]
03D45 Theory of numerations, effectively presented structures [See also 03C57; for intuitionistic and similar approaches see 03F55]
03D50 Recursive equivalence types of sets and structures, isols
03D55 Hierarchies
03D60 Computability and recursion theory on ordinals, admissible sets, etc.
03D65 Higher-type and set recursion theory
03D70 Inductive definability
03D75 Abstract and axiomatic computability and recursion theory
03D80 Applications of computability and recursion theory
03D99 None of the above, but in this section

03Exx Set theory

03E02 Partition relations
03E04 Ordered sets and their cofinalities; pcf theory
03E05 Other combinatorial set theory
03E10 Ordinal and cardinal numbers
03E15 Descriptive set theory [See also 28A05, 54H05]
03E17 Cardinal characteristics of the continuum
03E20 Other classical set theory (including functions, relations, and set algebra)
03E25 Axiom of choice and related propositions
03E30 Axiomatics of classical set theory and its fragments
03E35 Consistency and independence results
03E40 Other aspects of forcing and Boolean-valued models
03E45 Inner models, including constructibility, ordinal definability, and core models
03E47 Other notions of set-theoretic definability
03E50 Continuum hypothesis and Martin's axiom
03E55 Large cardinals
03E60 Determinacy principles
03E65 Other hypotheses and axioms
03E70 Nonclassical and second-order set theories
03E72 Fuzzy set theory
03E75 Applications of set theory
03E99 None of the above, but in this section

03Fxx Proof theory and constructive mathematics

03F03 Proof theory, general
03F05 Cut-elimination and normal-form theorems
03F07 Structure of proofs
03F10 Functionals in proof theory
03F15 Recursive ordinals and ordinal notations
03F20 Complexity of proofs
03F25 Relative consistency and interpretations
03F30 First-order arithmetic and fragments
03F35 Second- and higher-order arithmetic and fragments [See also 03B30]
03F40 Gödel numberings in proof theory
03F45 Provability logics and related algebras (e.g., diagonalizable algebras) [See also 03B45, 03G25, 06E25]
03F50 Metamathematics of constructive systems
03F52 Linear logic and other substructural logics [See also 03B47]
03F55 Intuitionistic mathematics
03F60 Constructive and recursive analysis [See also 03B30, 03D45, 26E40, 46S30, 47S30]
03F65 Other constructive mathematics [See also 03D45]
03F99 None of the above, but in this section

03Gxx Algebraic logic

03G05 Boolean algebras [See also 06Exx]
03G10 Lattices and related structures [See also 06Bxx]
03G12 Quantum logic [See also 06C15, 81P10]
03G15 Cylindric and polyadic algebras; relation algebras
03G20 Łukasiewicz and Post algebras [See also 06D25, 06D30]
03G25 Other algebras related to logic [See also 03F45, 06D20, 06E25, 06F35]
03G30 Categorical logic, topoi [See also 18B25, 18C05, 18C10]
03G99 None of the above, but in this section

03Hxx Nonstandard models [See also 03C62]

03H05 Nonstandard models in mathematics [See also 26E35, 28E05, 30G06, 46S20, 47S20, 54J05]
03H10 Other applications of nonstandard models (economics, physics, etc.)
03H15 Nonstandard models of arithmetic [See also 11U10, 12L15, 13L05]
03H99 None of the above, but in this section

05–XX COMBINATORICS {For finite fields, see 11Txx}

05–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
05–01 Instructional exposition (textbooks, tutorial papers, etc.)
05–02 Research exposition (monographs, survey articles)
05–03 Historical (must also be assigned at least one classification number from Section 01)
05–04 Explicit machine computation and programs (not the theory of computation or programming)
05–06 Proceedings, conferences, collections, etc.

05Axx Enumerative combinatorics

05A05 Combinatorial choice problems (subsets, representatives, permutations)
05A10 Factorials, binomial coefficients, combinatorial functions [See also 11B65, 33Cxx]
05A15 Exact enumeration problems, generating functions [See also 33Cxx, 33Dxx]
05A16 Asymptotic enumeration
05A17 Partitions of integers [See also 11P81, 11P82, 11P83]
05A18 Partitions of sets
05A19 Combinatorial identities
05A20 Combinatorial inequalities
05A30 q-calculus and related topics [See also 03Dxx]
05A40 Umbral calculus
05A99 None of the above, but in this section

05Bxx Designs and configurations {For applications of design theory, see 94C30}

05B05 Block designs [See also 51E05, 62K10]
05B07 Triple systems

05B10 Difference sets (number-theoretic, group-theoretic, etc.) [See also 11B13]
05B15 Orthogonal arrays, Latin squares, Room squares
05B20 Matrices (incidence, Hadamard, etc.)
05B25 Finite geometries [See also 51D20, 51Exx]
05B30 Other designs, configurations [See also 51E30]
05B35 Matroids, geometric lattices [See also 52B40, 90C27]
05B40 Packing and covering [See also 11H31, 52C15, 52C17]
05B45 Tessellation and tiling problems [See also 52C20, 52C22]
05B50 Polyominoes
05B99 None of the above, but in this section
05Cxx Graph theory {For applications of graphs, see 68R10, 90C35, 94C15}
05C05 Trees
05C07 Degree sequences
05C10 Topological graph theory, imbedding [See also 57M15, 57M25]
05C12 Distance in graphs
05C15 Coloring of graphs and hypergraphs
05C17 Perfect graphs
05C20 Directed graphs (digraphs), tournaments
05C22 Signed, gain and biased graphs
05C25 Graphs and groups [See also 20F65]
05C30 Enumeration of graphs and maps
05C35 Extremal problems [See also 90C35]
05C38 Paths and cycles [See also 90B10]
05C40 Connectivity
05C45 Eulerian and Hamiltonian graphs
05C50 Graphs and matrices
05C55 Generalized Ramsey theory
05C60 Isomorphism problems (reconstruction conjecture, etc.)
05C62 Graph representations (geometric and intersection representations, etc.)
05C65 Hypergraphs
05C69 Dominating sets, independent sets, cliques
05C70 Factorization, matching, covering and packing
05C75 Structural characterization of types of graphs
05C78 Graph labelling (graceful graphs, bandwidth, etc.)
05C80 Random graphs
05C83 Graph minors
05C85 Graph algorithms [See also 68R10, 68W05]
05C90 Applications
05C99 None of the above, but in this section
05Dxx Extremal combinatorics
05D05 Extremal set theory
05D10 Ramsey theory
05D15 Transversal (matching) theory
05D40 Probabilistic methods
05D99 None of the above, but in this section
05Exx Algebraic combinatorics
05E05 Symmetric functions
05E10 Tableaux, representations of the symmetric group [See also 20C30]
05E15 Combinatorial problems concerning the classical groups [See also 22E45, 33C80]
05E20 Group actions on designs, geometries and codes
05E25 Group actions on posets and homology groups of posets [See also 06A11]
05E30 Association schemes, strongly regular graphs
05E35 Orthogonal polynomials [See also 33C45, 33C50, 33D45]
05E99 None of the above, but in this section

06–XX ORDER, LATTICES, ORDERED ALGEBRAIC STRUCTURES [See also 18B35]

06-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
06–01 Instructional exposition (textbooks, tutorial papers, etc.)
06–02 Research exposition (monographs, survey articles)
06-03 Historical (must also be assigned at least one classification number from Section 01)
06–04 Explicit machine computation and programs (not the theory of computation or programming)
06–06 Proceedings, conferences, collections, etc.
06Axx Ordered sets
06A05 Total order
06A06 Partial order, general
06A07 Combinatorics of partially ordered sets
06A11 Algebraic aspects of posets [See also 05E25]
06A12 Semilattices [See also 20M10; for topological semilattices see 22A26]
06A15 Galois correspondences, closure operators
06A99 None of the above, but in this section
06Bxx Lattices [See also 03G10]
06B05 Structure theory
06B10 Ideals, congruence relations
06B15 Representation theory
06B20 Varieties of lattices
06B23 Complete lattices, completions
06B25 Free lattices, projective lattices, word problems [See also 03D40, 08A50, 20F10]
06B30 Topological lattices, order topologies [See also 06F30, 22A26, 54F05, 54H12]
06B35 Continuous lattices and posets, applications [See also 06B30, 06D10, 06F30, 18B35, 22A26, 68Q55]
06B99 None of the above, but in this section
06Cxx Modular lattices, complemented lattices
06C05 Modular lattices, Desarguesian lattices
06C10 Semimodular lattices, geometric lattices
06C15 Complemented lattices, orthocomplemented lattices and posets [See also 03G12, 81P10]
06C20 Complemented modular lattices, continuous geometries
06C99 None of the above, but in this section
06Dxx Distributive lattices
06D05 Structure and representation theory
06D10 Complete distributivity
06D15 Pseudocomplemented lattices
06D20 Heyting algebras [See also 03G25]
06D22 Frames, locales {For topological questions see 54–XX}
06D25 Post algebras [See also 03G20]
06D30 De Morgan algebras, Łukasiewicz algebras [See also 03G20]
06D35 MV-algebras
06D50 Lattices and duality
06D72 Fuzzy lattices (soft algebras) and related topics
06D99 None of the above, but in this section
06Exx Boolean algebras (Boolean rings) [See also 03G05]
06E05 Structure theory
06E10 Chain conditions, complete algebras
06E15 Stone space and related constructions
06E20 Ring-theoretic properties [See also 16E50, 16G30]
06E25 Boolean algebras with additional operations (diagonalizable algebras, etc.) [See also 03G25, 03F45]
06E30 Boolean functions [See also 94C10]
06E99 None of the above, but in this section
06Fxx Ordered structures
06F05 Ordered semigroups and monoids [See also 20Mxx]
06F07 Quantales
06F10 Noether lattices
06F15 Ordered groups [See also 20F60]
06F20 Ordered abelian groups, Riesz groups, ordered linear spaces [See also 46A40]
06F25 Ordered rings, algebras, modules {For ordered fields, see 12J15; see also 13J25, 16W80}
06F30 Topological lattices, order topologies [See also 06B30, 22A26, 54F05, 54H12]
06F35 BCK-algebras, BCI-algebras [See also 03G25]
06F99 None of the above, but in this section

08–XX GENERAL ALGEBRAIC SYSTEMS

08–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
08–01 Instructional exposition (textbooks, tutorial papers, etc.)
08–02 Research exposition (monographs, survey articles)
08–03 Historical (must also be assigned at least one classification number from Section 01)
08–04 Explicit machine computation and programs (not the theory of computation or programming)
08–06 Proceedings, conferences, collections, etc.
08Axx Algebraic structures [See also 03C05]
08A02 Relational systems, laws of composition
08A05 Structure theory
08A30 Subalgebras, congruence relations
08A35 Automorphisms, endomorphisms
08A40 Operations, polynomials, primal algebras
08A45 Equational compactness
08A50 Word problems [See also 03D40, 06B25, 20F10, 68R15]
08A55 Partial algebras
08A60 Unary algebras
08A62 Finitary algebras
08A65 Infinitary algebras
08A68 Heterogeneous algebras
08A70 Applications of universal algebra in computer science
08A72 Fuzzy algebraic structures
08A99 None of the above, but in this section
08Bxx Varieties [See also 03C05]
08B05 Equational logic, Mal′cev (Mal′tsev) conditions
08B10 Congruence modularity, congruence distributivity
08B15 Lattices of varieties
08B20 Free algebras
08B25 Products, amalgamated products, and other kinds of limits and colimits [See also 18A30]

08B26 Subdirect products and subdirect irreducibility
08B30 Injectives, projectives
08B99 None of the above, but in this section
08Cxx Other classes of algebras
08C05 Categories of algebras [See also 18C05]
08C10 Axiomatic model classes [See also 03Cxx, in particular 03C60]
08C15 Quasivarieties
08C99 None of the above, but in this section

11–XX NUMBER THEORY
11–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
11–01 Instructional exposition (textbooks, tutorial papers, etc.)
11–02 Research exposition (monographs, survey articles)
11–03 Historical (must also be assigned at least one classification number from Section 01)
11–04 Explicit machine computation and programs (not the theory of computation or programming)
11–06 Proceedings, conferences, collections, etc.
11Axx Elementary number theory {For analogues in number fields, see 11R04}
11A05 Multiplicative structure; Euclidean algorithm; greatest common divisors
11A07 Congruences; primitive roots; residue systems
11A15 Power residues, reciprocity
11A25 Arithmetic functions; related numbers; inversion formulas
11A41 Primes
11A51 Factorization; primality
11A55 Continued fractions {For approximation results, see 11J70} [See also 11K50, 30B70, 40A15]
11A63 Radix representation; digital problems {For metric results, see 11K16}
11A67 Other representations
11A99 None of the above, but in this section
11Bxx Sequences and sets
11B05 Density, gaps, topology
11B13 Additive bases [See also 05B10]
11B25 Arithmetic progressions [See also 11N13]
11B34 Representation functions
11B37 Recurrences {For applications to special functions, see 33–XX}
11B39 Fibonacci and Lucas numbers and polynomials and generalizations
11B50 Sequences (mod m)
11B57 Farey sequences; the sequences $1^k, 2^k, \cdots$
11B65 Binomial coefficients; factorials; q-identities [See also 05A10, 05A30]
11B68 Bernoulli and Euler numbers and polynomials
11B73 Bell and Stirling numbers
11B75 Other combinatorial number theory
11B83 Special sequences and polynomials
11B85 Automata sequences
11B99 None of the above, but in this section
11Cxx Polynomials and matrices
11C08 Polynomials [See also 13F20]
11C20 Matrices, determinants [See also 15A36]
11C99 None of the above, but in this section
11Dxx Diophantine equations [See also 11Gxx, 14Gxx]
11D04 Linear equations
11D09 Quadratic and bilinear equations
11D25 Cubic and quartic equations
11D41 Higher degree equations; Fermat's equation
11D45 Counting solutions of Diophantine equations
11D57 Multiplicative and norm form equations
11D59 Thue-Mahler equations
11D61 Exponential equations
11D68 Rational numbers as sums of fractions
11D72 Equations in many variables [See also 11P55]
11D75 Diophantine inequalities [See also 11J25]
11D79 Congruences in many variables
11D85 Representation problems [See also 11P55]
11D88 p-adic and power series fields
11D99 None of the above, but in this section
11Exx Forms and linear algebraic groups [See also 19Gxx] {For quadratic forms in linear algebra, see 15A63}
11E04 Quadratic forms over general fields
11E08 Quadratic forms over local rings and fields
11E10 Forms over real fields
11E12 Quadratic forms over global rings and fields
11E16 General binary quadratic forms
11E20 General ternary and quaternary quadratic forms; forms of more than two variables
11E25 Sums of squares and representations by other particular quadratic forms
11E39 Bilinear and Hermitian forms
11E41 Class numbers of quadratic and Hermitian forms
11E45 Analytic theory (Epstein zeta functions; relations with automorphic forms and functions)
11E57 Classical groups [See also 14Lxx, 20Gxx]
11E70 K-theory of quadratic and Hermitian forms
11E72 Galois cohomology of linear algebraic groups [See also 20G10]
11E76 Forms of degree higher than two
11E81 Algebraic theory of quadratic forms; Witt groups and rings [See also 19G12, 19G24]
11E88 Quadratic spaces; Clifford algebras [See also 15A63, 15A66]
11E95 p-adic theory
11E99 None of the above, but in this section
11Fxx Discontinuous groups and automorphic forms [See also 11R39, 11S37, 14Gxx, 14Kxx, 22E50, 22E55, 30F35, 32Nxx] {For relations with quadratic forms, see 11E45}
11F03 Modular and automorphic functions
11F06 Structure of modular groups and generalizations; arithmetic groups [See also 20H05, 20H10, 22E40]
11F11 Modular forms, one variable
11F12 Automorphic forms, one variable
11F20 Dedekind eta function, Dedekind sums
11F22 Relationship to Lie algebras and finite simple groups
11F23 Relations with algebraic geometry and topology
11F25 Hecke-Petersson operators, differential operators (one variable)
11F27 Theta series; Weil representation
11F30 Fourier coefficients of automorphic forms
11F32 Modular correspondences, etc.
11F33 Congruences for modular and p-adic modular forms [See also 14G20, 22E50]
11F37 Forms of half-integer weight; nonholomorphic modular forms
11F41 Hilbert and Hilbert-Siegel modular groups and their modular and automorphic forms; Hilbert modular surfaces [See also 14J20]
11F46 Siegel modular groups and their modular and automorphic forms
11F50 Jacobi forms
11F52 Modular forms associated to Drinfel'd modules
11F55 Other groups and their modular and automorphic forms (several variables)
11F60 Hecke-Petersson operators, differential operators (several variables)
11F66 Dirichlet series and functional equations in connection with modular forms
11F67 Special values of automorphic L-series, periods of modular forms, cohomology, modular symbols
11F70 Representation-theoretic methods; automorphic representations over local and global fields
11F72 Spectral theory; Selberg trace formula
11F75 Cohomology of arithmetic groups
11F80 Galois representations
11F85 p-adic theory, local fields [See also 14G20, 22E50]
11F99 None of the above, but in this section
11Gxx Arithmetic algebraic geometry (Diophantine geometry) [See also 11Dxx, 14Gxx, 14Kxx]
11G05 Elliptic curves over global fields [See also 14H52]
11G07 Elliptic curves over local fields [See also 14G20, 14H52]
11G09 Drinfel'd modules; higher-dimensional motives, etc. [See also 14L05]
11G10 Abelian varieties of dimension > 1 [See also 14Kxx]
11G15 Complex multiplication and moduli of abelian varieties [See also 14K22]
11G16 Elliptic and modular units [See also 11R27]
11G18 Arithmetic aspects of modular and Shimura varieties [See also 14G35]
11G20 Curves over finite and local fields [See also 14H25]
11G25 Varieties over finite and local fields [See also 14G15, 14G20]
11G30 Curves of arbitrary genus or genus $\neq 1$ over global fields [See also 14H25]
11G35 Varieties over global fields [See also 14G25]
11G40 L-functions of varieties over global fields; Birch-Swinnerton-Dyer conjecture [See also 14G10]
11G45 Geometric class field theory [See also 11R37, 14C35, 19F05]
11G50 Heights [See also 14G40]
11G55 Polylogarithms and relations with K-theory
11G99 None of the above, but in this section
11Hxx Geometry of numbers {For applications in coding theory, see 94B75}
11H06 Lattices and convex bodies [See also 11P21, 52C05, 52C07]
11H16 Nonconvex bodies
11H31 Lattice packing and covering [See also 05B40, 52C15, 52C17]
11H46 Products of linear forms
11H50 Minima of forms
11H55 Quadratic forms (reduction theory, extreme forms, etc.)
11H56 Automorphism groups of lattices
11H60 Mean value and transfer theorems
11H71 Relations with coding theory
11H99 None of the above, but in this section
11Jxx Diophantine approximation, transcendental number theory [See also 11K60]
11J04 Homogeneous approximation to one number
11J06 Markov and Lagrange spectra and generalizations

11J13 Simultaneous homogeneous approximation, linear forms
11J17 Approximation by numbers from a fixed field
11J20 Inhomogeneous linear forms
11J25 Diophantine inequalities [See also 11D75]
11J54 Small fractional parts of polynomials and generalizations
11J61 Approximation in non-Archimedean valuations
11J68 Approximation to algebraic numbers
11J70 Continued fractions and generalizations [See also 11A55, 11K50]
11J71 Distribution modulo one [See also 11K06]
11J72 Irrationality; linear independence over a field
11J81 Transcendence (general theory)
11J82 Measures of irrationality and of transcendence
11J83 Metric theory
11J85 Algebraic independence; Gel′fond's method
11J86 Linear forms in logarithms; Baker's method
11J89 Transcendence theory of elliptic and abelian functions
11J91 Transcendence theory of other special functions
11J93 Transcendence theory of Drinfel′d and t-modules
11J95 Results involving abelian varieties
11J97 Analogues of methods in Nevanlinna theory (work of Vojta et al.)
11J99 None of the above, but in this section

11Kxx Probabilistic theory: distribution modulo 1; metric theory of algorithms
11K06 General theory of distribution modulo 1 [See also 11J71]
11K16 Normal numbers, radix expansions, etc. [See also 11A63]
11K31 Special sequences
11K36 Well-distributed sequences and other variations
11K38 Irregularities of distribution, discrepancy [See also 11Nxx]
11K41 Continuous, p-adic and abstract analogues
11K45 Pseudo-random numbers; Monte Carlo methods
11K50 Metric theory of continued fractions [See also 11A55, 11J70]
11K55 Metric theory of other algorithms and expansions; measure and Hausdorff dimension [See also 11N99, 28Dxx]
11K60 Diophantine approximation [See also 11Jxx]
11K65 Arithmetic functions [See also 11Nxx]
11K70 Harmonic analysis and almost periodicity
11K99 None of the above, but in this section

11Lxx Exponential sums and character sums {For finite fields, see 11Txx}
11L03 Trigonometric and exponential sums, general
11L05 Gauss and Kloosterman sums; generalizations
11L07 Estimates on exponential sums
11L10 Jacobsthal and Brewer sums; other complete character sums
11L15 Weyl sums
11L20 Sums over primes
11L26 Sums over arbitrary intervals
11L40 Estimates on character sums
11L99 None of the above, but in this section

11Mxx Zeta and L-functions: analytic theory
11M06 $\zeta(s)$ and $L(s,\chi)$
11M20 Real zeros of $L(s,\chi)$; results on $L(1,\chi)$
11M26 Nonreal zeros of $\zeta(s)$ and $L(s,\chi)$; Riemann and other hypotheses
11M35 Hurwitz and Lerch zeta functions
11M36 Selberg zeta functions and regularized determinants; applications to spectral theory, Dirichlet series, Eisenstein series, etc. Explicit formulas
11M38 Zeta and L-functions in characteristic p
11M41 Other Dirichlet series and zeta functions {For local and global ground fields, see 11R42, 11R52, 11S40, 11S45; for algebro-geometric methods, see 14G10; see also 11E45, 11F66, 11F70, 11F72}
11M45 Tauberian theorems [See also 40E05]
11M99 None of the above, but in this section

11Nxx Multiplicative number theory
11N05 Distribution of primes
11N13 Primes in progressions [See also 11B25]
11N25 Distribution of integers with specified multiplicative constraints
11N30 Turán theory [See also 30Bxx]
11N32 Primes represented by polynomials; other multiplicative structure of polynomial values
11N35 Sieves
11N36 Applications of sieve methods
11N37 Asymptotic results on arithmetic functions
11N45 Asymptotic results on counting functions for algebraic and topological structures
11N56 Rate of growth of arithmetic functions
11N60 Distribution functions associated with additive and positive multiplicative functions
11N64 Other results on the distribution of values or the characterization of arithmetic functions
11N69 Distribution of integers in special residue classes
11N75 Applications of automorphic functions and forms to multiplicative problems [See also 11Fxx]
11N80 Generalized primes and integers
11N99 None of the above, but in this section

11Pxx Additive number theory; partitions
11P05 Waring's problem and variants
11P21 Lattice points in specified regions
11P32 Goldbach-type theorems; other additive questions involving primes
11P55 Applications of the Hardy-Littlewood method [See also 11D85]
11P70 Inverse problems of additive number theory
11P81 Elementary theory of partitions [See also 05A17]
11P82 Analytic theory of partitions
11P83 Partitions; congruences and congruential restrictions
11P99 None of the above, but in this section

11Rxx Algebraic number theory: global fields {For complex multiplication, see 11G15}
11R04 Algebraic numbers; rings of algebraic integers
11R06 PV-numbers and generalizations; other special algebraic numbers
11R09 Polynomials (irreducibility, etc.)
11R11 Quadratic extensions
11R16 Cubic and quartic extensions
11R18 Cyclotomic extensions
11R20 Other abelian and metabelian extensions
11R21 Other number fields
11R23 Iwasawa theory
11R27 Units and factorization
11R29 Class numbers, class groups, discriminants
11R32 Galois theory
11R33 Integral representations related to algebraic numbers; Galois module structure of rings of integers [See also 20C10]
11R34 Galois cohomology [See also 12Gxx, 16H05, 19A31]
11R37 Class field theory
11R39 Langlands-Weil conjectures, nonabelian class field theory [See also 11Fxx, 22E55]
11R42 Zeta functions and L-functions of number fields [See also 11M41, 19F27]
11R44 Distribution of prime ideals [See also 11N05]
11R45 Density theorems
11R47 Other analytic theory [See also 11Nxx]
11R52 Quaternion and other division algebras: arithmetic, zeta functions
11R54 Other algebras and orders, and their zeta and L-functions [See also 11S45, 16H05, 16Kxx]
11R56 Adèle rings and groups
11R58 Arithmetic theory of algebraic function fields [See also 14–XX]
11R60 Cyclotomic function fields (class groups, Bernoulli objects, etc.)
11R65 Class groups and Picard groups of orders
11R70 K-theory of global fields [See also 19Fxx]
11R80 Totally real and totally positive fields [See also 12J15]
11R99 None of the above, but in this section

11Sxx Algebraic number theory: local and p-adic fields
11S05 Polynomials
11S15 Ramification and extension theory
11S20 Galois theory
11S23 Integral representations
11S25 Galois cohomology [See also 12Gxx, 16H05]
11S31 Class field theory; p-adic formal groups [See also 14L05]
11S37 Langlands-Weil conjectures, nonabelian class field theory [See also 11Fxx, 22E50]
11S40 Zeta functions and L-functions [See also 11M41, 19F27]
11S45 Algebras and orders, and their zeta functions [See also 11R52, 11R54, 16H05, 16Kxx]
11S70 K-theory of local fields [See also 19Fxx]
11S80 Other analytic theory (analogues of beta and gamma functions, p-adic integration, etc.)
11S85 Other nonanalytic theory
11S90 Prehomogeneous vector spaces
11S99 None of the above, but in this section

11Txx Finite fields and commutative rings (number-theoretic aspects)
11T06 Polynomials
11T22 Cyclotomy
11T23 Exponential sums
11T24 Other character sums and Gauss sums
11T30 Structure theory
11T55 Arithmetic theory of polynomial rings over finite fields
11T60 Finite upper half-planes
11T71 Algebraic coding theory; cryptography
11T99 None of the above, but in this section

11Uxx Connections with logic
11U05 Decidability [See also 03B25]
11U07 Ultraproducts [See also 03C20]
11U09 Model theory [See also 03Cxx]
11U10 Nonstandard arithmetic [See also 03H15]
11U99 None of the above, but in this section

11Yxx Computational number theory [See also 11–04]
11Y05 Factorization
11Y11 Primality
11Y16 Algorithms; complexity [See also 68Q25]
11Y35 Analytic computations
11Y40 Algebraic number theory computations
11Y50 Computer solution of Diophantine equations
11Y55 Calculation of integer sequences
11Y60 Evaluation of constants
11Y65 Continued fraction calculations
11Y70 Values of arithmetic functions; tables
11Y99 None of the above, but in this section
11Z05 Miscellaneous applications of number theory

12–XX FIELD THEORY AND POLYNOMIALS
12–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
12–01 Instructional exposition (textbooks, tutorial papers, etc.)
12–02 Research exposition (monographs, survey articles)
12–03 Historical (must also be assigned at least one classification number from Section 01)
12–04 Explicit machine computation and programs (not the theory of computation or programming)
12–06 Proceedings, conferences, collections, etc.
12Dxx Real and complex fields
12D05 Polynomials: factorization
12D10 Polynomials: location of zeros (algebraic theorems) {For the analytic theory, see 26C10, 30C15}
12D15 Fields related with sums of squares (formally real fields, Pythagorean fields, etc.) [See also 11Exx]
12D99 None of the above, but in this section
12Exx General field theory
12E05 Polynomials (irreducibility, etc.)
12E10 Special polynomials
12E12 Equations
12E15 Skew fields, division rings [See also 11R52, 11R54, 11S45, 16Kxx]
12E20 Finite fields (field-theoretic aspects)
12E25 Hilbertian fields; Hilbert's irreducibility theorem
12E30 Field arithmetic
12E99 None of the above, but in this section
12Fxx Field extensions
12F05 Algebraic extensions
12F10 Separable extensions, Galois theory
12F12 Inverse Galois theory
12F15 Inseparable extensions
12F20 Transcendental extensions
12F99 None of the above, but in this section
12Gxx Homological methods (field theory)
12G05 Galois cohomology [See also 14F22, 16H05, 16K50]
12G10 Cohomological dimension
12G99 None of the above, but in this section
12Hxx Differential and difference algebra
12H05 Differential algebra [See also 13Nxx]
12H10 Difference algebra [See also 39Axx]
12H20 Abstract differential equations [See also 34Mxx]
12H25 p-adic differential equations [See also 11S80, 14G20]
12H99 None of the above, but in this section
12Jxx Topological fields
12J05 Normed fields
12J10 Valued fields
12J12 Formally p-adic fields
12J15 Ordered fields
12J17 Topological semifields
12J20 General valuation theory [See also 13A18]
12J25 Non-Archimedean valued fields [See also 30G06, 32P05, 46S10, 47S10]
12J27 Krasner-Tate algebras [See mainly 32P05; see also 46S10, 47S10]
12J99 None of the above, but in this section
12Kxx Generalizations of fields
12K05 Near-fields [See also 16Y30]
12K10 Semifields [See also 16Y60]
12K99 None of the above, but in this section
12Lxx Connections with logic
12L05 Decidability [See also 03B25]
12L10 Ultraproducts [See also 03C20]
12L12 Model theory [See also 03C60]
12L15 Nonstandard arithmetic [See also 03H15]
12L99 None of the above, but in this section
12Y05 Computational aspects of field theory and polynomials

13–XX COMMUTATIVE RINGS AND ALGEBRAS
13–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
13–01 Instructional exposition (textbooks, tutorial papers, etc.)
13–02 Research exposition (monographs, survey articles)
13–03 Historical (must also be assigned at least one classification number from Section 01)
13–04 Explicit machine computation and programs (not the theory of computation or programming)
13–06 Proceedings, conferences, collections, etc.
13Axx General commutative ring theory
13A02 Graded rings [See also 16W50]
13A05 Divisibility
13A10 Radical theory
13A15 Ideals; multiplicative ideal theory
13A18 Valuations and their generalizations [See also 12J20]
13A30 Associated graded rings of ideals (Rees ring, form ring), analytic spread and related topics
13A35 Characteristic p methods (Frobenius endomorphism) and reduction to characteristic p; tight closure [See also 13B22]
13A50 Actions of groups on commutative rings; invariant theory [See also 14L24]
13A99 None of the above, but in this section
13Bxx Ring extensions and related topics
13B02 Extension theory
13B05 Galois theory
13B10 Morphisms
13B21 Integral dependence
13B22 Integral closure of rings and ideals [See also 13A35]; integrally closed rings, related rings (Japanese, etc.)
13B24 Going up; going down; going between
13B25 Polynomials over commutative rings [See also 11C08, 13F20, 13M10]
13B30 Quotients and localization
13B35 Completion [See also 13J10]
13B40 Étale and flat extensions; Henselization; Artin approximation [See also 13J15, 14B12, 14B25]
13B99 None of the above, but in this section
13Cxx Theory of modules and ideals
13C05 Structure, classification theorems
13C10 Projective and free modules and ideals [See also 19A13]
13C11 Injective and flat modules and ideals
13C12 Torsion modules and ideals
13C13 Other special types
13C14 Cohen-Macaulay modules [See also 13H10]
13C15 Dimension theory, depth, related rings (catenary, etc.)
13C20 Class groups [See also 11R29]
13C40 Linkage, complete intersections and determinantal ideals [See also 14M06, 14M10, 14M12]
13C99 None of the above, but in this section
13Dxx Homological methods {For noncommutative rings, see 16Exx; for general categories, see 18Gxx}
13D02 Syzygies and resolutions
13D03 (Co)homology of commutative rings and algebras (e.g., Hochschild, André-Quillen, cyclic, dihedral, etc.)
13D05 Homological dimension
13D07 Homological functors on modules (Tor, Ext, etc.)
13D10 Deformations and infinitesimal methods [See also 14B10, 14B12, 14D15, 32Gxx]
13D15 Grothendieck groups, K-theory [See also 14C35, 18F30, 19Axx, 19D50]
13D22 Homological conjectures (intersection theorems)
13D25 Complexes
13D30 Torsion theory [See also 13C12, 18E40]
13D40 Hilbert-Samuel and Hilbert-Kunz functions; Poincaré series
13D45 Local cohomology [See also 14B15]
13D99 None of the above, but in this section
13Exx Chain conditions, finiteness conditions
13E05 Noetherian rings and modules
13E10 Artinian rings and modules, finite-dimensional algebras
13E15 Rings and modules of finite generation or presentation; number of generators
13E99 None of the above, but in this section
13Fxx Arithmetic rings and other special rings
13F05 Dedekind, Prüfer and Krull rings and their generalizations
13F07 Euclidean rings and generalizations
13F10 Principal ideal rings
13F15 Factorial rings, unique factorization domains [See also 14M05]
13F20 Polynomial rings and ideals; rings of integer-valued polynomials [See also 11C08, 13B25]
13F25 Formal power series rings [See also 13J05]
13F30 Valuation rings [See also 13A18]
13F40 Excellent rings
13F45 Seminormal rings

13F50 Rings with straightening laws, Hodge algebras
13F55 Face and Stanley-Reisner rings; simplicial complexes [See also 55U10]
13F99 None of the above, but in this section
13G05 Integral domains
13Hxx Local rings and semilocal rings
13H05 Regular local rings
13H10 Special types (Cohen-Macaulay, Gorenstein, Buchsbaum, etc.) [See also 14M05]
13H15 Multiplicity theory and related topics [See also 14C17]
13H99 None of the above, but in this section
13Jxx Topological rings and modules [See also 16W60, 16W80]
13J05 Power series rings [See also 13F25]
13J07 Analytical algebras and rings [See also 32B05]
13J10 Complete rings, completion [See also 13B35]
13J15 Henselian rings [See also 13B40]
13J20 Global topological rings
13J25 Ordered rings [See also 06F25]
13J30 Real algebra [See also 12D15, 14Pxx]
13J99 None of the above, but in this section
13K05 Witt vectors and related rings
13L05 Applications of logic to commutative algebra [See also 03Cxx, 03Hxx]
13Mxx Finite commutative rings {For number-theoretic aspects, see 11Txx}
13M05 Structure
13M10 Polynomials
13M99 None of the above, but in this section
13Nxx Differential algebra [See also 12H05, 14F10]
13N05 Modules of differentials
13N10 Rings of differential operators and their modules [See also 16S32, 32C38]
13N15 Derivations
13N99 None of the above, but in this section
13Pxx Computational aspects of commutative algebra [See also 68W30]
13P05 Polynomials, factorization [See also 12Y05]
13P10 Polynomial ideals, Gröbner bases [See also 13F20]
13P99 None of the above, but in this section

14–XX ALGEBRAIC GEOMETRY

14 00 General reference works (handbooks, dictionaries, bibliographies, etc.)
14 01 Instructional exposition (textbooks, tutorial papers, etc.)
14–02 Research exposition (monographs, survey articles)
14–03 Historical (must also be assigned at least one classification number from Section 01)
14 04 Explicit machine computation and programs (not the theory of computation or programming)
14–06 Proceedings, conferences, collections, etc.
14Axx Foundations
14A05 Relevant commutative algebra [See also 13–XX]
14A10 Varieties and morphisms
14A15 Schemes and morphisms
14A20 Generalizations (algebraic spaces, stacks)
14A22 Noncommutative algebraic geometry
14A25 Elementary questions
14A99 None of the above, but in this section
14Bxx Local theory
14B05 Singularities [See also 14E15, 14H20, 14J17, 32Sxx, 58Kxx]
14B07 Deformations of singularities [See also 14D15, 32S30]
14B10 Infinitesimal methods [See also 13D10]
14B12 Local deformation theory, Artin approximation, etc. [See also 13B40, 13D10]
14B15 Local cohomology [See also 13D45, 32C36]
14B20 Formal neighborhoods
14B25 Local structure of morphisms: étale, flat, etc. [See also 13B40]
14B99 None of the above, but in this section
14Cxx Cycles and subschemes
14C05 Parametrization (Chow and Hilbert schemes)
14C15 Chow groups and rings
14C17 Intersection theory, characteristic classes, intersection multiplicities [See also 13H15]
14C20 Divisors, linear systems, invertible sheaves
14C21 Pencils, nets, webs [See also 53A60]
14C22 Picard groups
14C25 Algebraic cycles
14C30 Transcendental methods, Hodge theory [See also 14D07, 32G20, 32J25, 32S35], Hodge conjecture
14C34 Torelli problem [See also 32G20]
14C35 Applications of methods of algebraic K-theory [See also 19Exx]
14C40 Riemann-Roch theorems [See also 19E20, 19L10]
14C99 None of the above, but in this section
14Dxx Families, fibrations
14D05 Structure of families (Picard-Lefschetz, monodromy, etc.)
14D06 Fibrations, degenerations
14D07 Variation of Hodge structures [See also 32G20]
14D10 Arithmetic ground fields (finite, local, global)
14D15 Formal methods; deformations [See also 13D10, 14B07, 32Gxx]
14D20 Algebraic moduli problems, moduli of vector bundles {For analytic moduli problems, see 32G13}
14D21 Applications of vector bundles and moduli spaces in mathematical physics (twistor theory, instantons, quantum field theory)
14D22 Fine and coarse moduli spaces
14D99 None of the above, but in this section
14Exx Birational geometry
14E05 Rational and birational maps
14E07 Birational automorphisms, Cremona group and generalizations
14E08 Rationality questions
14E15 Global theory and resolution of singularities [See also 14B05, 32S20, 32S45]
14E20 Coverings [See also 14H30]
14E22 Ramification problems [See also 11S15]
14E25 Embeddings
14E30 Minimal model program (Mori theory, extremal rays)
14E99 None of the above, but in this section
14Fxx (Co)homology theory [See also 13Dxx]
14F05 Vector bundles, sheaves, related constructions [See also 14H60, 14J60, 18F20, 32Lxx, 46M20]
14F10 Differentials and other special sheaves [See also 13Nxx, 32C38]
14F17 Vanishing theorems [See also 32L20]
14F20 Étale and other Grothendieck topologies and cohomologies
14F22 Brauer groups of schemes [See also 12G05, 16K50]
14F25 Classical real and complex cohomology
14F30 p-adic cohomology, crystalline cohomology
14F35 Homotopy theory; fundamental groups [See also 14H30]
14F40 de Rham cohomology [See also 14C30, 32C35, 32L10]
14F42 Motivic cohomology
14F43 Other algebro-geometric (co)homologies (e.g., intersection, equivariant, Lawson, Deligne (co)homologies)
14F45 Topological properties
14F99 None of the above, but in this section
14Gxx Arithmetic problems. Diophantine geometry [See also 11Dxx, 11Gxx]
14G05 Rational points
14G10 Zeta-functions and related questions [See also 11G40] (Birch-Swinnerton-Dyer conjecture)
14G15 Finite ground fields
14G20 Local ground fields
14G22 Rigid analytic geometry
14G25 Global ground fields
14G27 Other nonalgebraically closed ground fields
14G32 Universal profinite groups (relationship to moduli spaces, projective and moduli towers, Galois theory)
14G35 Modular and Shimura varieties [See also 11F41, 11F46, 11G18]
14G40 Arithmetic varieties and schemes; Arakelov theory; heights [See also 11G50]
14G50 Applications to coding theory and cryptography [See also 94A60, 94B27, 94B40]
14G99 None of the above, but in this section
14Hxx Curves
14H05 Algebraic functions; function fields [See also 11R58]
14H10 Families, moduli (algebraic)
14H15 Families, moduli (analytic) [See also 30F10, 32Gxx]
14H20 Singularities, local rings [See also 13Hxx, 14B05]
14H25 Arithmetic ground fields [See also 11Dxx, 11G05, 14Gxx]
14H30 Coverings, fundamental group [See also 14E20, 14F35]
14H37 Automorphisms
14H40 Jacobians, Prym varieties [See also 32G20]
14H42 Theta functions; Schottky problem [See also 14K25, 32G20]
14H45 Special curves and curves of low genus
14H50 Plane and space curves
14H51 Special divisors (gonality, Brill-Noether theory)
14H52 Elliptic curves [See also 11G05, 11G07, 14Kxx]
14H55 Riemann surfaces; Weierstrass points; gap sequences [See also 30Fxx]
14H60 Vector bundles on curves and their moduli [See also 14D20, 14F05]
14H70 Relationships with integrable systems
14H81 Relationships with physics
14H99 None of the above, but in this section
14Jxx Surfaces and higher-dimensional varieties {For analytic theory, see 32Jxx}
14J10 Families, moduli, classification: algebraic theory
14J15 Moduli, classification: analytic theory; relations with modular forms [See also 32G13]
14J17 Singularities [See also 14B05, 14E15]
14J20 Arithmetic ground fields [See also 11Dxx, 11G25, 11G35, 14Gxx]
14J25 Special surfaces {For Hilbert modular surfaces, see 14G35}
14J26 Rational and ruled surfaces
14J27 Elliptic surfaces
14J28 $K3$ surfaces and Enriques surfaces

14J29 Surfaces of general type
14J30 3-folds
14J32 Calabi-Yau manifolds, mirror symmetry
14J35 4-folds
14J40 n-folds ($n > 4$)
14J45 Fano varieties
14J50 Automorphisms of surfaces and higher-dimensional varieties
14J60 Vector bundles on surfaces and higher-dimensional varieties, and their moduli [See also 14D20, 14F05, 32Lxx]
14J70 Hypersurfaces
14J80 Topology of surfaces (Donaldson polynomials, Seiberg-Witten invariants)
14J81 Relationships with physics
14J99 None of the above, but in this section

14Kxx Abelian varieties and schemes
14K02 Isogeny
14K05 Algebraic theory
14K10 Algebraic moduli, classification [See also 11G15]
14K12 Subvarieties
14K15 Arithmetic ground fields [See also 11Dxx, 11Fxx, 11Gxx, 14Gxx]
14K20 Analytic theory; abelian integrals and differentials
14K22 Complex multiplication [See also 11G15]
14K25 Theta functions [See also 14H42]
14K30 Picard schemes, higher Jacobians [See also 14H40, 32G20]
14K99 None of the above, but in this section

14Lxx Algebraic groups {For linear algebraic groups, see 20Gxx; for Lie algebras, see 17B45}
14L05 Formal groups, p-divisible groups [See also 55N22]
14L10 Group varieties
14L15 Group schemes
14L17 Affine algebraic groups, hyperalgebra constructions [See also 17B45, 18D35]
14L24 Geometric invariant theory [See also 13A50]
14L30 Group actions on varieties or schemes (quotients) [See also 13A50, 14L24]
14L35 Classical groups (geometric aspects) [See also 20Gxx, 51N30]
14L40 Other algebraic groups (geometric aspects)
14L99 None of the above, but in this section

14Mxx Special varieties
14M05 Varieties defined by ring conditions (factorial, Cohen-Macaulay, seminormal) [See also 13F45, 13H10]
14M06 Linkage [See also 13C40]
14M07 Low codimension problems
14M10 Complete intersections [See also 13C40]
14M12 Determinantal varieties [See also 13C40]
14M15 Grassmannians, Schubert varieties, flag manifolds [See also 32M10, 51M35]
14M17 Homogeneous spaces and generalizations [See also 32M10, 53C30, 57T15]
14M20 Rational and unirational varieties
14M25 Toric varieties, Newton polyhedra [See also 52B20]
14M30 Supervarieties [See also 32C11, 58A50]
14M99 None of the above, but in this section

14Nxx Projective and enumerative geometry [See also 51–XX]
14N05 Projective techniques [See also 51N35]
14N10 Enumerative problems (combinatorial problems)
14N15 Classical problems, Schubert calculus
14N20 Configurations of linear subspaces
14N25 Varieties of low degree
14N30 Adjunction problems
14N35 Gromov-Witten invariants, quantum cohomology [See also 53D45]
14N99 None of the above, but in this section

14Pxx Real algebraic and real analytic geometry
14P05 Real algebraic sets [See also 12Dxx]
14P10 Semialgebraic sets and related spaces
14P15 Real analytic and semianalytic sets [See also 32B20, 32C05]
14P20 Nash functions and manifolds [See also 32C07, 58A07]
14P25 Topology of real algebraic varieties
14P99 None of the above, but in this section

14Qxx Computational aspects in algebraic geometry [See also 12Y05, 13Pxx, 68W30]
14Q05 Curves
14Q10 Surfaces, hypersurfaces
14Q15 Higher-dimensional varieties
14Q20 Effectivity
14Q99 None of the above, but in this section

14Rxx Affine geometry
14R05 Classification of affine varieties
14R10 Affine spaces (automorphisms, embeddings, exotic structures, cancellation problem)
14R15 Jacobian problem
14R20 Group actions on affine varieties [See also 13A50, 14L30]
14R25 Affine fibrations [See also 14D06]
14R99 None of the above, but in this section

15–XX LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY
15–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
15–01 Instructional exposition (textbooks, tutorial papers, etc.)
15–02 Research exposition (monographs, survey articles)
15–03 Historical (must also be assigned at least one classification number from Section 01)
15–04 Explicit machine computation and programs (not the theory of computation or programming)
15–06 Proceedings, conferences, collections, etc.
15A03 Vector spaces, linear dependence, rank
15A04 Linear transformations, semilinear transformations
15A06 Linear equations
15A09 Matrix inversion, generalized inverses
15A12 Conditioning of matrices [See also 65F35]
15A15 Determinants, permanents, other special matrix functions [See also 19B10, 19B14]
15A18 Eigenvalues, singular values, and eigenvectors
15A21 Canonical forms, reductions, classification
15A22 Matrix pencils [See also 47A56]
15A23 Factorization of matrices
15A24 Matrix equations and identities
15A27 Commutativity
15A29 Inverse problems
15A30 Algebraic systems of matrices [See also 16S50, 20Gxx, 20Hxx]
15A33 Matrices over special rings (quaternions, finite fields, etc.)
15A36 Matrices of integers [See also 11C20]
15A39 Linear inequalities
15A42 Inequalities involving eigenvalues and eigenvectors
15A45 Miscellaneous inequalities involving matrices
15A48 Positive matrices and their generalizations; cones of matrices
15A51 Stochastic matrices
15A52 Random matrices
15A54 Matrices over function rings in one or more variables
15A57 Other types of matrices (Hermitian, skew-Hermitian, etc.)
15A60 Norms of matrices, numerical range, applications of functional analysis to matrix theory [See also 65F35, 65J05]
15A63 Quadratic and bilinear forms, inner products [See mainly 11Exx]
15A66 Clifford algebras, spinors
15A69 Multilinear algebra, tensor products
15A72 Vector and tensor algebra, theory of invariants [See also 13A50, 14L24]
15A75 Exterior algebra, Grassmann algebras
15A78 Other algebras built from modules
15A90 Applications of matrix theory to physics
15A99 Miscellaneous topics

16–XX ASSOCIATIVE RINGS AND ALGEBRAS {For the commutative case, see 13–XX}
16–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
16–01 Instructional exposition (textbooks, tutorial papers, etc.)
16–02 Research exposition (monographs, survey articles)
16–03 Historical (must also be assigned at least one classification number from Section 01)
16–04 Explicit machine computation and programs (not the theory of computation or programming)
16–06 Proceedings, conferences, collections, etc.

16Bxx General and miscellaneous
16B50 Category-theoretic methods and results (except as in 16D90) [See also 18–XX]
16B70 Applications of logic [See also 03Cxx]
16B99 None of the above, but in this section

16Dxx Modules, bimodules and ideals
16D10 General module theory
16D20 Bimodules
16D25 Ideals
16D30 Infinite-dimensional simple rings (except as in 16Kxx)
16D40 Free, projective, and flat modules and ideals [See also 19A13]
16D50 Injective modules, self-injective rings [See also 16L60]
16D60 Simple and semisimple modules, primitive rings and ideals
16D70 Structure and classification (except as in 16Gxx), direct sum decomposition, cancellation
16D80 Other classes of modules and ideals [See also 16G50]
16D90 Module categories [See also 16Gxx, 16S90]; module theory in a category-theoretic context; Morita equivalence and duality
16D99 None of the above, but in this section

16Exx Homological methods {For commutative rings, see 13Dxx; for general categories, see 18Gxx}
16E05 Syzygies, resolutions, complexes
16E10 Homological dimension
16E20 Grothendieck groups, K-theory, etc. [See also 18F30, 19Axx, 19D50]

16E30 Homological functors on modules (Tor, Ext, etc.)
16E40 (Co)homology of rings and algebras (e.g. Hochschild, cyclic, dihedral, etc.)
16E45 Differential graded algebras and applications
16E50 von Neumann regular rings and generalizations
16E60 Semihereditary and hereditary rings, free ideal rings, Sylvester rings, etc.
16E65 Homological conditions on rings (generalizations of regular, Gorenstein, Cohen-Macaulay rings, etc.)
16E99 None of the above, but in this section
16Gxx Representation theory of rings and algebras
16G10 Representations of Artinian rings
16G20 Representations of quivers and partially ordered sets
16G30 Representations of orders, lattices, algebras over commutative rings [See also 16H05]
16G50 Cohen-Macaulay modules
16G60 Representation type (finite, tame, wild, etc.)
16G70 Auslander-Reiten sequences (almost split sequences) and Auslander-Reiten quivers
16G99 None of the above, but in this section
16H05 Orders and arithmetic, separable algebras, Azumaya algebras [See also 11R52, 11R54, 11S45]
16Kxx Division rings and semisimple Artin rings [See also 12E15, 15A30]
16K20 Finite-dimensional {For crossed products, see 16S35}
16K40 Infinite-dimensional and general
16K50 Brauer groups [See also 12G05, 14F22]
16K99 None of the above, but in this section
16Lxx Local rings and generalizations
16L30 Noncommutative local and semilocal rings, perfect rings
16L60 Quasi-Frobenius rings [See also 16D50]
16L99 None of the above, but in this section
16Nxx Radicals and radical properties of rings
16N20 Jacobson radical, quasimultiplication
16N40 Nil and nilpotent radicals, sets, ideals, rings
16N60 Prime and semiprime rings [See also 16D60, 16U10]
16N80 General radicals and rings {For radicals in module categories, see 16S90}
16N99 None of the above, but in this section
16Pxx Chain conditions, growth conditions, and other forms of finiteness
16P10 Finite rings and finite-dimensional algebras {For semisimple, see 16K20; for commutative, see 11Txx, 13Mxx}
16P20 Artinian rings and modules
16P40 Noetherian rings and modules
16P50 Localization and Noetherian rings [See also 16U20]
16P60 Chain conditions on annihilators and summands: Goldie-type conditions [See also 16U20], Krull dimension
16P70 Chain conditions on other classes of submodules, ideals, subrings, etc.; coherence
16P90 Growth rate, Gel'fand-Kirillov dimension
16P99 None of the above, but in this section
16Rxx Rings with polynomial identity
16R10 T-ideals, identities, varieties of rings and algebras
16R20 Semiprime p.i. rings, rings embeddable in matrices over commutative rings
16R30 Trace rings and invariant theory
16R40 Identities other than those of matrices over commutative rings
16R50 Other kinds of identities (generalized polynomial, rational, involution)
16R99 None of the above, but in this section
16Sxx Rings and algebras arising under various constructions
16S10 Rings determined by universal properties (free algebras, coproducts, adjunction of inverses, etc.)
16S15 Finite generation, finite presentability, normal forms (diamond lemma, term-rewriting)
16S20 Centralizing and normalizing extensions
16S30 Universal enveloping algebras of Lie algebras [See mainly 17B35]
16S32 Rings of differential operators [See also 13N10, 32C38]
16S34 Group rings [See also 20C05, 20C07], Laurent polynomial rings
16S35 Twisted and skew group rings, crossed products
16S36 Ordinary and skew polynomial rings and semigroup rings [See also 20M25]
16S37 Quadratic and Koszul algebras
16S38 Rings arising from non-commutative algebraic geometry
16S40 Smash products of general Hopf actions [See also 16W30]
16S50 Endomorphism rings; matrix rings [See also 15–XX]
16S60 Rings of functions, subdirect products, sheaves of rings
16S70 Extensions of rings by ideals
16S80 Deformations of rings [See also 13D10, 14D15]
16S90 Maximal ring of quotients, torsion theories, radicals on module categories [See also 13D30, 18E40] {For radicals of rings, see 16Nxx}
16S99 None of the above, but in this section
16Uxx Conditions on elements
16U10 Integral domains
16U20 Ore rings, multiplicative sets, Ore localization
16U30 Divisibility, noncommutative UFDs
16U60 Units, groups of units
16U70 Center, normalizer (invariant elements)
16U80 Generalizations of commutativity
16U99 None of the above, but in this section
16Wxx Rings and algebras with additional structure
16W10 Rings with involution; Lie, Jordan and other nonassociative structures [See also 17B60, 17C50, 46Kxx]
16W20 Automorphisms and endomorphisms
16W22 Actions of groups and semigroups; invariant theory
16W25 Derivations, actions of Lie algebras
16W30 Coalgebras, bialgebras, Hopf algebras [See also 16S40, 57T05]; rings, modules, etc. on which these act
16W35 Ring-theoretic aspects of quantum groups [See also 17B37, 20G42, 81R50]
16W50 Graded rings and modules
16W55 "Super" (or "skew") structure [See also 17A70, 17Bxx, 17C70] {For exterior algebras, see 15A75; for Clifford algebras, see 11E88, 15A66}
16W60 Valuations, completions, formal power series and related constructions [See also 13Jxx]
16W70 Filtered rings; filtrational and graded techniques
16W80 Topological and ordered rings and modules [See also 06F25, 13Jxx]
16W99 None of the above, but in this section
16Yxx Generalizations {For nonassociative rings, see 17–XX}
16Y30 Near-rings [See also 12K05]
16Y60 Semirings [See also 12K10]
16Y99 None of the above, but in this section
16Z05 Computational aspects of associative rings [See also 68W30]

17–XX NONASSOCIATIVE RINGS AND ALGEBRAS

17–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
17–01 Instructional exposition (textbooks, tutorial papers, etc.)
17–02 Research exposition (monographs, survey articles)
17–03 Historical (must also be assigned at least one classification number from Section 01)
17–04 Explicit machine computation and programs (not the theory of computation or programming)
17–06 Proceedings, conferences, collections, etc.
17–08 Computational methods
17Axx General nonassociative rings
17A01 General theory
17A05 Power-associative rings
17A15 Noncommutative Jordan algebras
17A20 Flexible algebras
17A30 Algebras satisfying other identities
17A32 Leibniz algebras
17A35 Division algebras
17A36 Automorphisms, derivations, other operators
17A40 Ternary compositions
17A42 Other n-ary compositions ($n \geq 3$)
17A45 Quadratic algebras (but not quadratic Jordan algebras)
17A50 Free algebras
17A60 Structure theory
17A65 Radical theory
17A70 Superalgebras
17A75 Composition algebras
17A80 Valued algebras
17A99 None of the above, but in this section
17Bxx Lie algebras and Lie superalgebras {For Lie groups, see 22Exx}
17B01 Identities, free Lie (super)algebras
17B05 Structure theory
17B10 Representations, algebraic theory (weights)
17B15 Representations, analytic theory
17B20 Simple, semisimple, reductive (super)algebras (roots)
17B25 Exceptional (super)algebras
17B30 Solvable, nilpotent (super)algebras
17B35 Universal enveloping (super)algebras [See also 16S30]
17B37 Quantum groups (quantized enveloping algebras) and related deformations [See also 16W35, 20G42, 81R50, 82B23]
17B40 Automorphisms, derivations, other operators
17B45 Lie algebras of linear algebraic groups [See also 14Lxx and 20Gxx]
17B50 Modular Lie (super)algebras
17B55 Homological methods in Lie (super)algebras
17B56 Cohomology of Lie (super)algebras
17B60 Lie (super)algebras associated with other structures (associative, Jordan, etc.) [See also 16W10, 17C40, 17C50]
17B62 Lie bialgebras
17B63 Poisson algebras
17B65 Infinite-dimensional Lie (super)algebras [See also 22E65]

17B66 Lie algebras of vector fields and related (super) algebras
17B67 Kac-Moody (super)algebras (structure and representation theory)
17B68 Virasoro and related algebras
17B69 Vertex operators; vertex operator algebras and related structures
17B70 Graded Lie (super)algebras
17B75 Color Lie (super)algebras
17B80 Applications to integrable systems
17B81 Applications to physics
17B99 None of the above, but in this section

17Cxx Jordan algebras (algebras, triples and pairs)
17C05 Identities and free Jordan structures
17C10 Structure theory
17C17 Radicals
17C20 Simple, semisimple algebras
17C27 Idempotents, Peirce decompositions
17C30 Associated groups, automorphisms
17C36 Associated manifolds
17C37 Associated geometries
17C40 Exceptional Jordan structures
17C50 Jordan structures associated with other structures [See also 16W10]
17C55 Finite-dimensional structures
17C60 Division algebras
17C65 Jordan structures on Banach spaces and algebras [See also 46H70, 46L70]
17C70 Super structures
17C90 Applications to physics
17C99 None of the above, but in this section

17Dxx Other nonassociative rings and algebras
17D05 Alternative rings
17D10 Mal′cev (Mal′tsev) rings and algebras
17D15 Right alternative rings
17D20 (γ, δ)-rings, including $(1, -1)$-rings
17D25 Lie-admissible algebras
17D92 Genetic algebras
17D99 None of the above, but in this section

18–XX CATEGORY THEORY; HOMOLOGICAL ALGEBRA {For commutative rings see 13Dxx, for associative rings 16Exx, for groups 20Jxx, for topological groups and related structures 57Txx; see also 55Nxx and 55Uxx for algebraic topology}
18–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
18–01 Instructional exposition (textbooks, tutorial papers, etc.)
18–02 Research exposition (monographs, survey articles)
18–03 Historical (must also be assigned at least one classification number from Section 01)
18–04 Explicit machine computation and programs (not the theory of computation or programming)
18–06 Proceedings, conferences, collections, etc.

18Axx General theory of categories and functors
18A05 Definitions, generalizations
18A10 Graphs, diagram schemes, precategories [See especially 20L05]
18A15 Foundations, relations to logic and deductive systems [See also 03–XX]
18A20 Epimorphisms, monomorphisms, special classes of morphisms, null morphisms
18A22 Special properties of functors (faithful, full, etc.)
18A23 Natural morphisms, dinatural morphisms
18A25 Functor categories, comma categories
18A30 Limits and colimits (products, sums, directed limits, pushouts, fiber products, equalizers, kernels, ends and coends, etc.)
18A32 Factorization of morphisms, substructures, quotient structures, congruences, amalgams
18A35 Categories admitting limits (complete categories), functors preserving limits, completions
18A40 Adjoint functors (universal constructions, reflective subcategories, Kan extensions, etc.)
18A99 None of the above, but in this section

18Bxx Special categories
18B05 Category of sets, characterizations [See also 03–XX]
18B10 Category of relations, additive relations
18B15 Embedding theorems, universal categories [See also 18E20]
18B20 Categories of machines, automata, operative categories [See also 03D05, 68Qxx]
18B25 Topoi [See also 03G30]
18B30 Categories of topological spaces and continuous mappings [See also 54–XX]
18B35 Preorders, orders and lattices (viewed as categories) [See also 06–XX]
18B40 Groupoids, semigroupoids, semigroups, groups (viewed as categories) [See also 20Axx, 20L05, 20Mxx]
18B99 None of the above, but in this section

18Cxx Categories and theories
18C05 Equational categories [See also 03C05, 08C05]
18C10 Theories (e.g. algebraic theories), structure, and semantics [See also 03G30]
18C15 Triples (= standard construction, monad or triad), algebras for a triple, homology and derived functors for triples [See also 18Gxx]
18C20 Algebras and Kleisli categories associated with monads
18C30 Sketches and generalizations
18C35 Accessible and locally presentable categories
18C50 Categorical semantics of formal languages [See also 68Q55, 68Q65]
18C99 None of the above, but in this section

18Dxx Categories with structure
18D05 Double categories, 2-categories, bicategories and generalizations
18D10 Monoidal categories (= multiplicative categories), symmetric monoidal categories, braided categories [See also 19D23]
18D15 Closed categories (closed monoidal and Cartesian closed categories, etc.)
18D20 Enriched categories (over closed or monoidal categories)
18D25 Strong functors, strong adjunctions
18D30 Fibered categories
18D35 Structured objects in a category (group objects, etc.)
18D50 Operads [See also 55P48]
18D99 None of the above, but in this section

18Exx Abelian categories
18E05 Preadditive, additive categories
18E10 Exact categories, abelian categories
18E15 Grothendieck categories
18E20 Embedding theorems [See also 18B15]
18E25 Derived functors and satellites
18E30 Derived categories, triangulated categories
18E35 Localization of categories
18E40 Torsion theories, radicals [See also 13D30, 16S90]
18E99 None of the above, but in this section

18Fxx Categories and geometry
18F05 Local categories and functors
18F10 Grothendieck topologies [See also 14F20]
18F15 Abstract manifolds and fiber bundles [See also 55Rxx, 57Pxx]
18F20 Presheaves and sheaves [See also 14F05, 32C35, 32L10, 54B40, 55N30]
18F25 Algebraic K-theory and L-theory [See also 11Exx, 11R70, 11S70, 12–XX, 13D15, 14Cxx, 16E20, 19–XX, 46L80, 57R65, 57R67]
18F30 Grothendieck groups [See also 13D15, 16E20, 19Axx]
18F99 None of the above, but in this section

18Gxx Homological algebra [See also 13Dxx, 16Exx, 20Jxx, 55Nxx, 55Uxx, 57Txx]
18G05 Projectives and injectives [See also 13C10, 13C11, 16D40, 16D50]
18G10 Resolutions; derived functors [See also 13D02, 16E05, 18E25]
18G15 Ext and Tor, generalizations, Künneth formula [See also 55U25]
18G20 Homological dimension [See also 13D05, 16E10]
18G25 Relative homological algebra, projective classes
18G30 Simplicial sets, simplicial objects (in a category) [See also 55U10]
18G35 Chain complexes [See also 18E30, 55U15]
18G40 Spectral sequences, hypercohomology [See also 55Txx]
18G50 Nonabelian homological algebra
18G55 Homotopical algebra
18G60 Other (co)homology theories [See also 19D55, 46L80, 58J20, 58J22]
18G99 None of the above, but in this section

19–XX K-THEORY [See also 16E20, 18F25]
19–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
19–01 Instructional exposition (textbooks, tutorial papers, etc.)
19–02 Research exposition (monographs, survey articles)
19–03 Historical (must also be assigned at least one classification number from Section 01)
19–04 Explicit machine computation and programs (not the theory of computation or programming)
19–06 Proceedings, conferences, collections, etc.

19Axx Grothendieck groups and K_0 [See also 13D15, 18F30]
19A13 Stability for projective modules [See also 13C10]
19A15 Efficient generation
19A22 Frobenius induction, Burnside and representation rings
19A31 K_0 of group rings and orders
19A49 K_0 of other rings
19A99 None of the above, but in this section

19Bxx Whitehead groups and K_1
19B10 Stable range conditions
19B14 Stability for linear groups
19B28 K_1 of group rings and orders [See also 57Q10]
19B37 Congruence subgroup problems [See also 20H05]
19B99 None of the above, but in this section

19Cxx **Steinberg groups and K_2**
19C09 Central extensions and Schur multipliers
19C20 Symbols, presentations and stability of K_2
19C30 K_2 and the Brauer group
19C40 Excision for K_2
19C99 None of the above, but in this section
19Dxx **Higher algebraic K-theory**
19D06 Q- and plus-constructions
19D10 Algebraic K-theory of spaces
19D23 Symmetric monoidal categories [See also 18D10]
19D25 Karoubi-Villamayor-Gersten K-theory
19D35 Negative K-theory, NK and Nil
19D45 Higher symbols, Milnor K-theory
19D50 Computations of higher K-theory of rings [See also 13D15, 16E20]
19D55 K-theory and homology; cyclic homology and cohomology [See also 18G60]
19D99 None of the above, but in this section
19Exx **K-theory in geometry**
19E08 K-theory of schemes [See also 14C35]
19E15 Algebraic cycles and motivic cohomology [See also 14C25, 14C35]
19E20 Relations with cohomology theories [See also 14Fxx]
19E99 None of the above, but in this section
19Fxx **K-theory in number theory [See also 11R70, 11S70]**
19F05 Generalized class field theory [See also 11G45]
19F15 Symbols and arithmetic [See also 11R37]
19F27 Étale cohomology, higher regulators, zeta and L-functions [See also 11G40, 11R42, 11S40, 14F20, 14G10]
19F99 None of the above, but in this section
19Gxx **K-theory of forms [See also 11Exx]**
19G05 Stability for quadratic modules
19G12 Witt groups of rings [See also 11E81]
19G24 L-theory of group rings [See also 11E81]
19G38 Hermitian K-theory, relations with K-theory of rings
19G99 None of the above, but in this section
19Jxx **Obstructions from topology**
19J05 Finiteness and other obstructions in K_0
19J10 Whitehead (and related) torsion
19J25 Surgery obstructions [See also 57R67]
19J35 Obstructions to group actions
19J99 None of the above, but in this section
19Kxx **K-theory and operator algebras [See mainly 46L80, and also 46M20]**
19K14 K_0 as an ordered group, traces
19K33 EXT and K-homology [See also 55N22]
19K35 Kasparov theory (KK-theory) [See also 58J22]
19K56 Index theory [See also 58J20, 58J22]
19K99 None of the above, but in this section
19Lxx **Topological K-theory [See also 55N15, 55R50, 55S25]**
19L10 Riemann-Roch theorems, Chern characters
19L20 J-homomorphism, Adams operations [See also 55Q50]
19L41 Connective K-theory, cobordism [See also 55N22]
19L47 Equivariant K-theory [See also 55N91, 55P91, 55Q91, 55R91, 55S91]
19L64 Computations, geometric applications
19L99 None of the above, but in this section
19M05 **Miscellaneous applications of K-theory**

20–XX GROUP THEORY AND GENERALIZATIONS

20–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
20–01 Instructional exposition (textbooks, tutorial papers, etc.)
20–02 Research exposition (monographs, survey articles)
20–03 Historical (must also be assigned at least one classification number from Section 01)
20–04 Explicit machine computation and programs (not the theory of computation or programming)
20–06 Proceedings, conferences, collections, etc.
20Axx **Foundations**
20A05 Axiomatics and elementary properties
20A10 Metamathematical considerations {For word problems, see 20F10}
20A15 Applications of logic to group theory
20A99 None of the above, but in this section
20Bxx **Permutation groups**
20B05 General theory for finite groups
20B07 General theory for infinite groups
20B10 Characterization theorems
20B15 Primitive groups
20B20 Multiply transitive finite groups
20B22 Multiply transitive infinite groups
20B25 Finite automorphism groups of algebraic, geometric, or combinatorial structures [See also 05Bxx, 12F10, 20G40, 20H30, 51–XX]
20B27 Infinite automorphism groups [See also 12F10]
20B30 Symmetric groups
20B35 Subgroups of symmetric groups
20B40 Computational methods
20B99 None of the above, but in this section
20Cxx **Representation theory of groups [See also 19A22 (for representation rings and Burnside rings)]**
20C05 Group rings of finite groups and their modules [See also 16S34]
20C07 Group rings of infinite groups and their modules [See also 16S34]
20C08 Hecke algebras and their representations
20C10 Integral representations of finite groups
20C11 p-adic representations of finite groups
20C12 Integral representations of infinite groups
20C15 Ordinary representations and characters
20C20 Modular representations and characters
20C25 Projective representations and multipliers
20C30 Representations of finite symmetric groups
20C32 Representations of infinite symmetric groups
20C33 Representations of finite groups of Lie type
20C34 Representations of sporadic groups
20C35 Applications of group representations to physics
20C40 Computational methods
20C99 None of the above, but in this section
20Dxx **Abstract finite groups**
20D05 Classification of simple and nonsolvable groups
20D06 Simple groups: alternating groups and groups of Lie type [See also 20Gxx]
20D08 Simple groups: sporadic groups
20D10 Solvable groups, theory of formations, Schunck classes, Fitting classes, π-length, ranks [See also 20F17]
20D15 Nilpotent groups, p-groups
20D20 Sylow subgroups, Sylow properties, π-groups, π-structure
20D25 Special subgroups (Frattini, Fitting, etc.)
20D30 Series and lattices of subgroups
20D35 Subnormal subgroups
20D40 Products of subgroups
20D45 Automorphisms
20D60 Arithmetic and combinatorial problems
20D99 None of the above, but in this section
20Exx **Structure and classification of infinite or finite groups**
20E05 Free nonabelian groups
20E06 Free products, free products with amalgamation, Higman-Neumann-Neumann extensions, and generalizations
20E07 Subgroup theorems; subgroup growth
20E08 Groups acting on trees [See also 20F65]
20E10 Quasivarieties and varieties of groups
20E15 Chains and lattices of subgroups, subnormal subgroups [See also 20F22]
20E18 Limits, profinite groups
20E22 Extensions, wreath products, and other compositions [See also 20J05]
20E25 Local properties
20E26 Residual properties and generalizations
20E28 Maximal subgroups
20E32 Simple groups [See also 20D05]
20E34 General structure theorems
20E36 General theorems concerning automorphisms of groups
20E42 Groups with a BN-pair; buildings [See also 51E24]
20E45 Conjugacy classes
20E99 None of the above, but in this section
20Fxx **Special aspects of infinite or finite groups**
20F05 Generators, relations, and presentations
20F06 Cancellation theory; application of van Kampen diagrams [See also 57M05]
20F10 Word problems, other decision problems, connections with logic and automata [See also 03B25, 03D05, 03D40, 06B25, 08A50, 68Q70]
20F12 Commutator calculus
20F14 Derived series, central series, and generalizations
20F16 Solvable groups, supersolvable groups [See also 20D10]
20F17 Formations of groups, Fitting classes [See also 20D10]
20F18 Nilpotent groups [See also 20D15]
20F19 Generalizations of solvable and nilpotent groups
20F22 Other classes of groups defined by subgroup chains
20F24 FC-groups and their generalizations
20F28 Automorphism groups of groups [See also 20E36]
20F29 Representations of groups as automorphism groups of algebraic systems
20F34 Fundamental groups and their automorphisms [See also 57M05, 57Sxx]
20F36 Braid groups; Artin groups
20F38 Other groups related to topology or analysis
20F40 Associated Lie structures
20F45 Engel conditions
20F50 Periodic groups; locally finite groups
20F55 Reflection and Coxeter groups [See also 22E40, 51F15]
20F60 Ordered groups [See mainly 06F15]
20F65 Geometric group theory [See also 05C25, 20E08, 57Mxx]
20F67 Hyperbolic groups and nonpositively curved groups

20F69 Asymptotic properties of groups
20F99 None of the above, but in this section
20Gxx Linear algebraic groups (classical groups) {For arithmetic theory, see 11E57, 11H56; for geometric theory, see 14Lxx, 22Exx; for other methods in representation theory, see 15A30, 22E45, 22E46, 22E47, 22E50, 22E55}
20G05 Representation theory
20G10 Cohomology theory
20G15 Linear algebraic groups over arbitrary fields
20G20 Linear algebraic groups over the reals, the complexes, the quaternions
20G25 Linear algebraic groups over local fields and their integers
20G30 Linear algebraic groups over global fields and their integers
20G35 Linear algebraic groups over adèles and other rings and schemes
20G40 Linear algebraic groups over finite fields
20G42 Quantum groups (quantized function algebras) and their representations [See also 16W35, 17B37, 81R50]
20G45 Applications to physics
20G99 None of the above, but in this section
20Hxx Other groups of matrices [See also 15A30]
20H05 Unimodular groups, congruence subgroups [See also 11F06, 19B37, 22E40, 51F20]
20H10 Fuchsian groups and their generalizations [See also 11F06, 22E40, 30F35, 32Nxx]
20H15 Other geometric groups, including crystallographic groups [See also 51–XX, especially 51F15, and 82D25]
20H20 Other matrix groups over fields
20H25 Other matrix groups over rings
20H30 Other matrix groups over finite fields
20H99 None of the above, but in this section
20Jxx Connections with homological algebra and category theory
20J05 Homological methods in group theory
20J06 Cohomology of groups
20J15 Category of groups
20J99 None of the above, but in this section
20Kxx Abelian groups
20K01 Finite abelian groups
20K10 Torsion groups, primary groups and generalized primary groups
20K15 Torsion-free groups, finite rank
20K20 Torsion-free groups, infinite rank
20K21 Mixed groups
20K25 Direct sums, direct products, etc.
20K27 Subgroups
20K30 Automorphisms, homomorphisms, endomorphisms, etc.
20K35 Extensions
20K40 Homological and categorical methods
20K45 Topological methods [See also 22A05, 22B05]
20K99 None of the above, but in this section
20L05 Groupoids (i.e. small categories in which all morphisms are isomorphisms) {For sets with a single binary operation, see 20N02; for topological groupoids, see 22A22, 58H05}
20Mxx Semigroups
20M05 Free semigroups, generators and relations, word problems
20M07 Varieties of semigroups
20M10 General structure theory
20M11 Radical theory
20M12 Ideal theory
20M14 Commutative semigroups
20M15 Mappings of semigroups
20M17 Regular semigroups
20M18 Inverse semigroups
20M19 Orthodox semigroups
20M20 Semigroups of transformations, etc. [See also 47D03, 47H20, 54H15]
20M25 Semigroup rings, multiplicative semigroups of rings [See also 16S36, 16Y60]
20M30 Representation of semigroups; actions of semigroups on sets
20M35 Semigroups in automata theory, linguistics, etc. [See also 03D05, 68Q70, 68T50]
20M50 Connections of semigroups with homological algebra and category theory
20M99 None of the above, but in this section
20Nxx Other generalizations of groups
20N02 Sets with a single binary operation (groupoids)
20N05 Loops, quasigroups [See also 05Bxx]
20N10 Ternary systems (heaps, semiheaps, heapoids, etc.)
20N15 n-ary systems ($n \geq 3$)
20N20 Hypergroups
20N25 Fuzzy groups [See also 03E72]
20N99 None of the above, but in this section
20P05 Probabilistic methods in group theory [See also 60Bxx]

22–XX TOPOLOGICAL GROUPS, LIE GROUPS {For transformation groups, see 54H15, 57Sxx, 58–XX. For abstract harmonic analysis, see 43–XX}
22–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
22–01 Instructional exposition (textbooks, tutorial papers, etc.)
22–02 Research exposition (monographs, survey articles)
22–03 Historical (must also be assigned at least one classification number from Section 01)
22–04 Explicit machine computation and programs (not the theory of computation or programming)
22–06 Proceedings, conferences, collections, etc.
22Axx Topological and differentiable algebraic systems {For topological rings and fields, see 12Jxx, 13Jxx, 16W80}
22A05 Structure of general topological groups
22A10 Analysis on general topological groups
22A15 Structure of topological semigroups
22A20 Analysis on topological semigroups
22A22 Topological groupoids (including differentiable and Lie groupoids) [See also 58H05]
22A25 Representations of general topological groups and semigroups
22A26 Topological semilattices, lattices and applications [See also 06B30, 06B35, 06F30]
22A30 Other topological algebraic systems and their representations
22A99 None of the above, but in this section
22Bxx Locally compact abelian groups (LCA groups)
22B05 General properties and structure of LCA groups
22B10 Structure of group algebras of LCA groups
22B99 None of the above, but in this section
22C05 Compact groups
22Dxx Locally compact groups and their algebras
22D05 General properties and structure of locally compact groups
22D10 Unitary representations of locally compact groups
22D12 Other representations of locally compact groups
22D15 Group algebras of locally compact groups
22D20 Representations of group algebras
22D25 C^*-algebras and W^*-algebras in relation to group representations [See also 46Lxx]
22D30 Induced representations
22D35 Duality theorems
22D40 Ergodic theory on groups [See also 28Dxx]
22D45 Automorphism groups of locally compact groups
22D99 None of the above, but in this section
22Exx Lie groups {For the topology of Lie groups and homogeneous spaces, see 57Sxx, 57Txx; for analysis thereon, see 43A80, 43A85, 43A90}
22E05 Local Lie groups [See also 34–XX, 35–XX, 58H05]
22E10 General properties and structure of complex Lie groups [See also 32M05]
22E15 General properties and structure of real Lie groups
22E20 General properties and structure of other Lie groups
22E25 Nilpotent and solvable Lie groups
22E27 Representations of nilpotent and solvable Lie groups (special orbital integrals, non-type I representations, etc.)
22E30 Analysis on real and complex Lie groups [See also 33C80, 43–XX]
22E35 Analysis on p-adic Lie groups
22E40 Discrete subgroups of Lie groups [See also 20Hxx, 32Nxx]
22E41 Continuous cohomology [See also 57R32, 57Txx, 58H10]
22E43 Structure and representation of the Lorentz group
22E45 Representations of Lie and linear algebraic groups over real fields: analytic methods {For the purely algebraic theory, see 20G05}
22E46 Semisimple Lie groups and their representations
22E47 Representations of Lie and real algebraic groups: algebraic methods (Verma modules, etc.) [See also 17B10]
22E50 Representations of Lie and linear algebraic groups over local fields [See also 20G05]
22E55 Representations of Lie and linear algebraic groups over global fields and adèle rings [See also 20G05]
22E60 Lie algebras of Lie groups {For the algebraic theory of Lie algebras, see 17Bxx}
22E65 Infinite-dimensional Lie groups and their Lie algebras [See also 17B65, 58B25, 58H05]
22E67 Loop groups and related constructions, group-theoretic treatment [See also 58D05]
22E70 Applications of Lie groups to physics; explicit representations [See also 81R05, 81R10]
22E99 None of the above, but in this section
22Fxx Noncompact transformation groups
22F05 General theory of group and pseudogroup actions {For topological properties of spaces with an action, see 57S20}
22F10 Measurable group actions [See also 22D40, 28Dxx, 37Axx]
22F30 Homogeneous spaces {For general actions on manifolds or preserving geometrical structures, see 57M60, 57Sxx; for discrete subgroups of Lie groups see especially 22E40}

22F50 Groups as automorphisms of other structures
22F99 None of the above, but in this section

26–XX REAL FUNCTIONS [See also 54C30]
26–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
26–01 Instructional exposition (textbooks, tutorial papers, etc.)
26–02 Research exposition (monographs, survey articles)
26–03 Historical (must also be assigned at least one classification number from Section 01)
26–04 Explicit machine computation and programs (not the theory of computation or programming)
26–06 Proceedings, conferences, collections, etc.
26Axx Functions of one variable
26A03 Foundations: limits and generalizations, elementary topology of the line
26A06 One-variable calculus
26A09 Elementary functions
26A12 Rate of growth of functions, orders of infinity, slowly varying functions [See also 26A48]
26A15 Continuity and related questions (modulus of continuity, semicontinuity, discontinuities, etc.) {For properties determined by Fourier coefficients, see 42A16; for those determined by approximation properties, see 41A25, 41A27}
26A16 Lipschitz (Hölder) classes
26A18 Iteration [See also 37Bxx, 37Cxx, 37Exx, 39B12, 47H10, 54H25]
26A21 Classification of real functions; Baire classification of sets and functions [See also 03E15, 28A05, 54C50]
26A24 Differentiation (functions of one variable): general theory, generalized derivatives, mean-value theorems [See also 28A15]
26A27 Nondifferentiability (nondifferentiable functions, points of nondifferentiability), discontinuous derivatives
26A30 Singular functions, Cantor functions, functions with other special properties
26A33 Fractional derivatives and integrals
26A36 Antidifferentiation
26A39 Denjoy and Perron integrals, other special integrals
26A42 Integrals of Riemann, Stieltjes and Lebesgue type [See also 28–XX]
26A45 Functions of bounded variation, generalizations
26A46 Absolutely continuous functions
26A48 Monotonic functions, generalizations
26A51 Convexity, generalizations
26A99 None of the above, but in this section
26Bxx Functions of several variables
26B05 Continuity and differentiation questions
26B10 Implicit function theorems, Jacobians, transformations with several variables
26B12 Calculus of vector functions
26B15 Integration: length, area, volume [See also 28A75, 51M25]
26B20 Integral formulas (Stokes, Gauss, Green, etc.)
26B25 Convexity, generalizations
26B30 Absolutely continuous functions, functions of bounded variation
26B35 Special properties of functions of several variables, Hölder conditions, etc.
26B40 Representation and superposition of functions
26B99 None of the above, but in this section
26Cxx Polynomials, rational functions
26C05 Polynomials: analytic properties, etc. [See also 12Dxx, 12Exx]
26C10 Polynomials: location of zeros [See also 12D10, 30C15, 65H05]
26C15 Rational functions [See also 14Pxx]
26C99 None of the above, but in this section
26Dxx Inequalities {For maximal function inequalities, see 42B25; for functional inequalities, see 39B72; for probabilistic inequalities, see 60E15}
26D05 Inequalities for trigonometric functions and polynomials
26D07 Inequalities involving other types of functions
26D10 Inequalities involving derivatives and differential and integral operators
26D15 Inequalities for sums, series and integrals
26D20 Other analytical inequalities
26D99 None of the above, but in this section
26Exx Miscellaneous topics [See also 58Cxx]
26E05 Real-analytic functions [See also 32B05, 32C05]
26E10 C^∞-functions, quasi-analytic functions [See also 58C25]
26E15 Calculus of functions on infinite-dimensional spaces [See also 46G05, 58Cxx]
26E20 Calculus of functions taking values in infinite-dimensional spaces [See also 46E40, 46G10, 58Cxx]
26E25 Set-valued functions [See also 28B20, 54C60] {For nonsmooth analysis, see 49J52, 58Cxx, 90Cxx}
26E30 Non-Archimedean analysis [See also 12J25]
26E35 Nonstandard analysis [See also 03H05, 28E05, 54J05]
26E40 Constructive real analysis [See also 03F60]
26E50 Fuzzy real analysis [See also 03E72, 28E10]
26E60 Means [See also 47A64]
26E99 None of the above, but in this section

28–XX MEASURE AND INTEGRATION {For analysis on manifolds, see 58–XX}
28–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
28–01 Instructional exposition (textbooks, tutorial papers, etc.)
28–02 Research exposition (monographs, survey articles)
28–03 Historical (must also be assigned at least one classification number from Section 01)
28–04 Explicit machine computation and programs (not the theory of computation or programming)
28–06 Proceedings, conferences, collections, etc.
28Axx Classical measure theory
28A05 Classes of sets (Borel fields, σ-rings, etc.), measurable sets, Suslin sets, analytic sets [See also 03E15, 26A21, 54H05]
28A10 Real- or complex-valued set functions
28A12 Contents, measures, outer measures, capacities
28A15 Abstract differentiation theory, differentiation of set functions [See also 26A24]
28A20 Measurable and nonmeasurable functions, sequences of measurable functions, modes of convergence
28A25 Integration with respect to measures and other set functions
28A33 Spaces of measures, convergence of measures [See also 46E27, 60Bxx]
28A35 Measures and integrals in product spaces
28A50 Integration and disintegration of measures
28A51 Lifting theory [See also 46G15]
28A60 Measures on Boolean rings, measure algebras [See also 54H10]
28A75 Length, area, volume, other geometric measure theory [See also 26B15, 49Q15]
28A78 Hausdorff and packing measures
28A80 Fractals [See also 37Fxx]
28A99 None of the above, but in this section
28Bxx Set functions, measures and integrals with values in abstract spaces
28B05 Vector-valued set functions, measures and integrals [See also 46G10]
28B10 Group- or semigroup-valued set functions, measures and integrals
28B15 Set functions, measures and integrals with values in ordered spaces
28B20 Set-valued set functions and measures; integration of set-valued functions; measurable selections [See also 26E25, 54C60, 54C65, 91B14]
28B99 None of the above, but in this section
28Cxx Set functions and measures on spaces with additional structure [See also 46G12, 58C35, 58D20]
28C05 Integration theory via linear functionals (Radon measures, Daniell integrals, etc.), representing set functions and measures
28C10 Set functions and measures on topological groups, Haar measures, invariant measures [See also 22Axx, 43A05]
28C15 Set functions and measures on topological spaces (regularity of measures, etc.)
28C20 Set functions and measures and integrals in infinite-dimensional spaces (Wiener measure, Gaussian measure, etc.) [See also 46G12, 58C35, 58D20, 60B11]
28C99 None of the above, but in this section
28Dxx Measure-theoretic ergodic theory [See also 11K50, 11K55, 22D40, 37Axx, 47A35, 54H20, 60Fxx, 60G10]
28D05 Measure-preserving transformations
28D10 One-parameter continuous families of measure-preserving transformations
28D15 General groups of measure-preserving transformations
28D20 Entropy and other invariants
28D99 None of the above, but in this section
28Exx Miscellaneous topics in measure theory
28E05 Nonstandard measure theory [See also 03H05, 26E35]
28E10 Fuzzy measure theory [See also 03E72, 26E50, 94D05]
28E15 Other connections with logic and set theory
28E99 None of the above, but in this section

30–XX FUNCTIONS OF A COMPLEX VARIABLE {For analysis on manifolds, see 58–XX}
30–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
30–01 Instructional exposition (textbooks, tutorial papers, etc.)
30–02 Research exposition (monographs, survey articles)
30–03 Historical (must also be assigned at least one classification number from Section 01)
30–04 Explicit machine computation and programs (not the theory of computation or programming)
30–06 Proceedings, conferences, collections, etc.
30Axx General properties
30A05 Monogenic properties of complex functions (including polygenic and areolar monogenic functions)
30A10 Inequalities in the complex domain
30A99 None of the above, but in this section

30Bxx **Series expansions**
30B10 Power series (including lacunary series)
30B20 Random power series
30B30 Boundary behavior of power series, over-convergence
30B40 Analytic continuation
30B50 Dirichlet series and other series expansions, exponential series [See also 11M41, 42–XX]
30B60 Completeness problems, closure of a system of functions
30B70 Continued fractions [See also 11A55, 40A15]
30B99 None of the above, but in this section
30Cxx **Geometric function theory**
30C10 Polynomials
30C15 Zeros of polynomials, rational functions, and other analytic functions (e.g. zeros of functions with bounded Dirichlet integral) {For algebraic theory, see 12D10; for real methods, see 26C10}
30C20 Conformal mappings of special domains
30C25 Covering theorems in conformal mapping theory
30C30 Numerical methods in conformal mapping theory [See also 65E05]
30C35 General theory of conformal mappings
30C40 Kernel functions and applications
30C45 Special classes of univalent and multivalent functions (starlike, convex, bounded rotation, etc.)
30C50 Coefficient problems for univalent and multivalent functions
30C55 General theory of univalent and multivalent functions
30C62 Quasiconformal mappings in the plane
30C65 Quasiconformal mappings in $\mathbf{R}^n$, other generalizations
30C70 Extremal problems for conformal and quasiconformal mappings, variational methods
30C75 Extremal problems for conformal and quasiconformal mappings, other methods
30C80 Maximum principle; Schwarz's lemma, Lindelöf principle, analogues and generalizations; subordination
30C85 Capacity and harmonic measure in the complex plane [See also 31A15]
30C99 None of the above, but in this section
30Dxx **Entire and meromorphic functions, and related topics**
30D05 Functional equations in the complex domain, iteration and composition of analytic functions [See also 34Mxx, 37Fxx, 39–XX]
30D10 Representations of entire functions by series and integrals
30D15 Special classes of entire functions and growth estimates
30D20 Entire functions, general theory
30D30 Meromorphic functions, general theory
30D35 Distribution of values, Nevanlinna theory
30D40 Cluster sets, prime ends, boundary behavior
30D45 Bloch functions, normal functions, normal families
30D50 Blaschke products, bounded mean oscillation, bounded characteristic, bounded functions, functions with positive real part
30D55 H^p-classes
30D60 Quasi-analytic and other classes of functions
30D99 None of the above, but in this section
30Exx **Miscellaneous topics of analysis in the complex domain**
30E05 Moment problems, interpolation problems
30E10 Approximation in the complex domain
30E15 Asymptotic representations in the complex domain
30E20 Integration, integrals of Cauchy type, integral representations of analytic functions [See also 45Exx]
30E25 Boundary value problems [See also 45Exx]
30E99 None of the above, but in this section
30Fxx **Riemann surfaces**
30F10 Compact Riemann surfaces and uniformization [See also 14H15, 32G15]
30F15 Harmonic functions on Riemann surfaces
30F20 Classification theory of Riemann surfaces
30F25 Ideal boundary theory
30F30 Differentials on Riemann surfaces
30F35 Fuchsian groups and automorphic functions [See also 11Fxx, 20H10, 22E40, 32Gxx, 32Nxx]
30F40 Kleinian groups [See also 20H10]
30F45 Conformal metrics (hyperbolic, Poincaré, distance functions)
30F50 Klein surfaces
30F60 Teichmüller theory [See also 32G15]
30F99 None of the above, but in this section
30Gxx **Generalized function theory**
30G06 Non-Archimedean function theory [See also 12J25]; nonstandard function theory [See also 03H05]
30G12 Finely holomorphic functions and topological function theory
30G20 Generalizations of Bers or Vekua type (pseudoanalytic, p-analytic, etc.)
30G25 Discrete analytic functions
30G30 Other generalizations of analytic functions (including abstract-valued functions)
30G35 Functions of hypercomplex variables and generalized variables
30G99 None of the above, but in this section
30H05 **Spaces and algebras of analytic functions [See also 32A38, 46Exx, 46J15]**

31–XX **POTENTIAL THEORY {For probabilistic potential theory, see 60J45}**
31–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
31–01 Instructional exposition (textbooks, tutorial papers, etc.)
31–02 Research exposition (monographs, survey articles)
31–03 Historical (must also be assigned at least one classification number from Section 01)
31–04 Explicit machine computation and programs (not the theory of computation or programming)
31–06 Proceedings, conferences, collections, etc.
31Axx **Two-dimensional theory**
31A05 Harmonic, subharmonic, superharmonic functions
31A10 Integral representations, integral operators, integral equations methods
31A15 Potentials and capacity, harmonic measure, extremal length [See also 30C85]
31A20 Boundary behavior (theorems of Fatou type, etc.)
31A25 Boundary value and inverse problems
31A30 Biharmonic, polyharmonic functions and equations, Poisson's equation
31A35 Connections with differential equations
31A99 None of the above, but in this section
31Bxx **Higher-dimensional theory**
31B05 Harmonic, subharmonic, superharmonic functions
31B10 Integral representations, integral operators, integral equations methods
31B15 Potentials and capacities, extremal length
31B20 Boundary value and inverse problems
31B25 Boundary behavior
31B30 Biharmonic and polyharmonic equations and functions
31B35 Connections with differential equations
31B99 None of the above, but in this section
31Cxx **Other generalizations**
31C05 Harmonic, subharmonic, superharmonic functions
31C10 Pluriharmonic and plurisubharmonic functions [See also 32U05]
31C12 Potential theory on Riemannian manifolds [See also 53C20; for Hodge theory, see 58A14]
31C15 Potentials and capacities
31C20 Discrete potential theory and numerical methods
31C25 Dirichlet spaces
31C35 Martin boundary theory [See also 60J50]
31C40 Fine potential theory
31C45 Other generalizations (nonlinear potential theory, etc.)
31C99 None of the above, but in this section
31D05 **Axiomatic potential theory**

32–XX **SEVERAL COMPLEX VARIABLES AND ANALYTIC SPACES {For infinite-dimensional holomorphy, see 46G20, 58B12}**
32–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
32–01 Instructional exposition (textbooks, tutorial papers, etc.)
32–02 Research exposition (monographs, survey articles)
32–03 Historical (must also be assigned at least one classification number from Section 01)
32–04 Explicit machine computation and programs (not the theory of computation or programming)
32–06 Proceedings, conferences, collections, etc.
32Axx **Holomorphic functions of several complex variables**
32A05 Power series, series of functions
32A07 Special domains (Reinhardt, Hartogs, circular, tube)
32A10 Holomorphic functions
32A12 Multifunctions
32A15 Entire functions
32A17 Special families of functions
32A18 Bloch functions, normal functions
32A19 Normal families of functions, mappings
32A20 Meromorphic functions
32A22 Nevanlinna theory (local); growth estimates; other inequalities {For geometric theory, see 32H25, 32H30}
32A25 Integral representations; canonical kernels (Szegő, Bergman, etc.)
32A26 Integral representations, constructed kernels (e.g. Cauchy, Fantappiè-type kernels)
32A27 Local theory of residues [See also 32C30]
32A30 Other generalizations of function theory of one complex variable (should also be assigned at least one classification number from Section 30) {For functions of several hypercomplex variables, see 30G35}
32A35 H^p-spaces, Nevanlinna spaces [See also 32M15, 42B30, 43A85, 46J15]
32A36 Bergman spaces
32A37 Other spaces of holomorphic functions (e.g. bounded mean oscillation (BMOA), vanishing mean oscillation (VMOA)) [See also 46Exx]
32A38 Algebras of holomorphic functions [See also 30H05, 46J10, 46J15]
32A40 Boundary behavior of holomorphic functions

32A45 Hyperfunctions [See also 46F15]
32A50 Harmonic analysis of several complex variables [See mainly 43–XX]
32A55 Singular integrals
32A60 Zero sets of holomorphic functions
32A65 Banach algebra techniques [See mainly 46Jxx]
32A70 Functional analysis techniques [See mainly 46Exx]
32A99 None of the above, but in this section
32Bxx Local analytic geometry [See also 13–XX and 14–XX]
32B05 Analytic algebras and generalizations, preparation theorems
32B10 Germs of analytic sets, local parametrization
32B15 Analytic subsets of affine space
32B20 Semi-analytic sets and subanalytic sets [See also 14P15]
32B25 Triangulation and related questions
32B99 None of the above, but in this section
32Cxx Analytic spaces
32C05 Real-analytic manifolds, real-analytic spaces [See also 14Pxx, 58A07]
32C07 Real-analytic sets, complex Nash functions [See also 14P15, 14P20]
32C09 Embedding of real analytic manifolds
32C11 Complex supergeometry [See also 14A22, 14M30, 58A50]
32C15 Complex spaces
32C18 Topology of analytic spaces
32C20 Normal analytic spaces
32C22 Embedding of analytic spaces
32C25 Analytic subsets and submanifolds
32C30 Integration on analytic sets and spaces, currents {For local theory, see 32A25 or 32A27}
32C35 Analytic sheaves and cohomology groups [See also 14Fxx, 18F20, 55N30]
32C36 Local cohomology of analytic spaces
32C37 Duality theorems
32C38 Sheaves of differential operators and their modules, D-modules [See also 14F10, 16S32, 35A27, 58J15]
32C55 The Levi problem in complex spaces; generalizations
32C81 Applications to physics
32C99 None of the above, but in this section
32Dxx Analytic continuation
32D05 Domains of holomorphy
32D10 Envelopes of holomorphy
32D15 Continuation of analytic objects
32D20 Removable singularities
32D26 Riemann domains
32D99 None of the above, but in this section
32Exx Holomorphic convexity
32E05 Holomorphically convex complex spaces, reduction theory
32E10 Stein spaces, Stein manifolds
32E20 Polynomial convexity
32E30 Holomorphic and polynomial approximation, Runge pairs, interpolation
32E35 Global boundary behavior of holomorphic functions
32E40 The Levi problem
32E99 None of the above, but in this section
32Fxx Geometric convexity
32F10 q-convexity, q-concavity
32F17 Other notions of convexity
32F18 Finite-type conditions
32F27 Topological consequences of geometric convexity
32F32 Analytical consequences of geometric convexity (vanishing theorems, etc.)
32F45 Invariant metrics and pseudodistances
32F99 None of the above, but in this section
32Gxx Deformations of analytic structures
32G05 Deformations of complex structures [See also 13D10, 16S80, 58H10, 58H15]
32G07 Deformations of special (e.g. CR) structures
32G08 Deformations of fiber bundles
32G10 Deformations of submanifolds and subspaces
32G13 Analytic moduli problems {For algebraic moduli problems, see 14D20, 14D22, 14H10, 14J10} [See also 14H15, 14J15]
32G15 Moduli of Riemann surfaces, Teichmüller theory [See also 14H15, 30Fxx]
32G20 Period matrices, variation of Hodge structure; degenerations [See also 14D05, 14D07, 14K30]
32G34 Moduli and deformations for ordinary differential equations (e.g. Khnizhnik-Zamolodchikov equation) [See also 34Mxx]
32G81 Applications to physics
32G99 None of the above, but in this section
32Hxx Holomorphic mappings and correspondences
32H02 Holomorphic mappings, (holomorphic) embeddings and related questions
32H04 Meromorphic mappings
32H12 Boundary uniqueness of mappings
32H25 Picard-type theorems and generalizations {For function-theoretic properties, see 32A22}
32H30 Value distribution theory in higher dimensions {For function-theoretic properties, see 32A22}
32H35 Proper mappings, finiteness theorems
32H40 Boundary regularity of mappings
32H50 Iteration problems
32H99 None of the above, but in this section
32Jxx Compact analytic spaces {For Riemann surfaces, see 14Hxx, 30Fxx; for algebraic theory, see 14Jxx}
32J05 Compactification of analytic spaces
32J10 Algebraic dependence theorems
32J15 Compact surfaces
32J17 Compact 3-folds
32J18 Compact n-folds
32J25 Transcendental methods of algebraic geometry [See also 14C30]
32J27 Compact Kähler manifolds: generalizations, classification
32J81 Applications to physics
32J99 None of the above, but in this section
32Kxx Generalizations of analytic spaces (should also be assigned at least one other classification number from Section 32 describing the type of problem)
32K05 Banach analytic spaces [See also 58Bxx]
32K07 Formal and graded complex spaces [See also 58C50]
32K15 Differentiable functions on analytic spaces, differentiable spaces [See also 58C25]
32K99 None of the above, but in this section
32Lxx Holomorphic fiber spaces [See also 55Rxx]
32L05 Holomorphic bundles and generalizations
32L10 Sheaves and cohomology of sections of holomorphic vector bundles, general results [See also 14F05, 18F20, 55N30]
32L15 Bundle convexity [See also 32F10]
32L20 Vanishing theorems
32L25 Twistor theory, double fibrations [See also 53C28]
32L81 Applications to physics
32L99 None of the above, but in this section
32Mxx Complex spaces with a group of automorphisms
32M05 Complex Lie groups, automorphism groups acting on complex spaces [See also 22E10]
32M10 Homogeneous complex manifolds [See also 14M17, 57T15]
32M12 Almost homogeneous manifolds and spaces [See also 14M17]
32M15 Hermitian symmetric spaces, bounded symmetric domains, Jordan algebras [See also 22E10, 22E40, 53C35, 57T15]
32M17 Automorphism groups of $\mathbf{C}^n$ and affine manifolds
32M25 Complex vector fields
32M99 None of the above, but in this section
32Nxx Automorphic functions [See also 11Fxx, 20H10, 22E40, 30F35]
32N05 General theory of automorphic functions of several complex variables
32N10 Automorphic forms
32N15 Automorphic functions in symmetric domains
32N99 None of the above, but in this section
32P05 Non-Archimedean complex analysis (should also be assigned at least one other classification number from Section 32 describing the type of problem)
32Qxx Complex manifolds
32Q05 Negative curvature manifolds
32Q10 Positive curvature manifolds
32Q15 Kähler manifolds
32Q20 Kähler-Einstein manifolds [See also 53Cxx]
32Q25 Calabi-Yau theory
32Q28 Stein manifolds
32Q30 Uniformization
32Q35 Complex manifolds as subdomains of Euclidean space
32Q40 Embedding theorems
32Q45 Hyperbolic and Kobayashi hyperbolic manifolds
32Q55 Topological aspects of complex manifolds
32Q57 Classification theorems
32Q60 Almost complex manifolds
32Q65 Pseudoholomorphic curves
32Q99 None of the above, but in this section
32Sxx Singularities [See also 58Kxx]
32S05 Local singularities [See also 14J17]
32S10 Invariants of analytic local rings
32S15 Equisingularity (topological and analytic) [See also 14E15]
32S20 Global theory of singularities; cohomological properties [See also 14E15]
32S22 Relations with arrangements of hyperplanes [See also 52C35]
32S25 Surface and hypersurface singularities [See also 14J17]
32S30 Deformations of singularities; vanishing cycles [See also 14B07]
32S35 Mixed Hodge theory of singular varieties [See also 14C30, 14D07]
32S40 Monodromy; relations with differential equations and D-modules
32S45 Modifications; resolution of singularities [See also 14E15]

32S50 Topological aspects: Lefschetz theorems, topological classification, invariants
32S55 Milnor fibration; relations with knot theory [See also 57M25, 57Q45]
32S60 Stratifications; constructible sheaves; intersection cohomology [See also 58Kxx]
32S65 Singularities of holomorphic vector fields and foliations
32S70 Other operations on singularities
32S99 None of the above, but in this section

32Txx Pseudoconvex domains
32T05 Domains of holomorphy
32T15 Strongly pseudoconvex domains
32T20 Worm domains
32T25 Finite type domains
32T27 Geometric and analytic invariants on weakly pseudoconvex boundaries
32T35 Exhaustion functions
32T40 Peak functions
32T99 None of the above, but in this section

32Uxx Pluripotential theory
32U05 Plurisubharmonic functions and generalizations [See also 31C10]
32U10 Plurisubharmonic exhaustion functions
32U15 General pluripotential theory
32U20 Capacity theory and generalizations
32U25 Lelong numbers
32U30 Removable sets
32U35 Pluricomplex Green functions
32U40 Currents
32U99 None of the above, but in this section

32Vxx CR manifolds
32V05 CR structures, CR operators, and generalizations
32V10 CR functions
32V15 CR manifolds as boundaries of domains
32V20 Analysis on CR manifolds
32V25 Extension of functions and other analytic objects from CR manifolds
32V30 Embeddings of CR manifolds
32V35 Finite type conditions on CR manifolds
32V40 Real submanifolds in complex manifolds
32V99 None of the above, but in this section

32Wxx Differential operators in several variables
32W05 $\overline{\partial}$ and $\overline{\partial}$-Neumann operators
32W10 $\overline{\partial}_b$ and $\overline{\partial}_b$-Neumann operators
32W20 Complex Monge-Ampère operators
32W25 Pseudodifferential operators in several complex variables
32W30 Heat kernels in several complex variables
32W50 Other partial differential equations of complex analysis
32W99 None of the above, but in this section

33–XX SPECIAL FUNCTIONS (33–XX deals with the properties of functions as functions){For orthogonal functions, see 42Cxx; for aspects of combinatorics see 05Axx; for number-theoretic aspects see 11–XX; for representation theory see 22Exx}

33–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
33–01 Instructional exposition (textbooks, tutorial papers, etc.)
33–02 Research exposition (monographs, survey articles)
33–03 Historical (must also be assigned at least one classification number from Section 01)
33–04 Explicit machine computation and programs (not the theory of computation or programming)
33–06 Proceedings, conferences, collections, etc.

33Bxx Elementary classical functions
33B10 Exponential and trigonometric functions
33B15 Gamma, beta and polygamma functions
33B20 Incomplete beta and gamma functions (error functions, probability integral, Fresnel integrals)
33B30 Higher logarithm functions
33B99 None of the above, but in this section

33Cxx Hypergeometric functions
33C05 Classical hypergeometric functions, ${}_2F_1$
33C10 Bessel and Airy functions, cylinder functions, ${}_0F_1$
33C15 Confluent hypergeometric functions, Whittaker functions, ${}_1F_1$
33C20 Generalized hypergeometric series, ${}_pF_q$
33C45 Orthogonal polynomials and functions of hypergeometric type (Jacobi, Laguerre, Hermite, Askey scheme, etc.) [See also 42C05 for general orthogonal polynomials and functions]
33C47 Other special orthogonal polynomials and functions
33C50 Orthogonal polynomials and functions in several variables expressible in terms of special functions in one variable
33C52 Orthogonal polynomials and functions associated with root systems
33C55 Spherical harmonics
33C60 Hypergeometric integrals and functions defined by them (E, G and H functions)
33C65 Appell, Horn and Lauricella functions
33C67 Hypergeometric functions associated with root systems
33C70 Other hypergeometric functions and integrals in several variables
33C75 Elliptic integrals as hypergeometric functions
33C80 Connections with groups and algebras, and related topics
33C90 Applications
33C99 None of the above, but in this section

33Dxx Basic hypergeometric functions
33D05 q-gamma functions, q-beta functions and integrals
33D15 Basic hypergeometric functions in one variable, ${}_r\varphi_s$
33D45 Basic orthogonal polynomials and functions (Askey-Wilson polynomials, etc.)
33D50 Orthogonal polynomials and functions in several variables expressible in terms of basic hypergeometric functions in one variable
33D52 Basic orthogonal polynomials and functions associated with root systems (Macdonald polynomials, etc.)
33D60 Basic hypergeometric integrals and functions defined by them
33D65 Bibasic functions and multiple bases
33D67 Basic hypergeometric functions associated with root systems
33D70 Other basic hypergeometric functions and integrals in several variables
33D80 Connections with quantum groups, Chevalley groups, p-adic groups, Hecke algebras, and related topics
33D90 Applications
33D99 None of the above, but in this section

33Exx Other special functions
33E05 Elliptic functions and integrals
33E10 Lamé, Mathieu, and spheroidal wave functions
33E12 Mittag-Leffler functions and generalizations
33E15 Other wave functions
33E17 Painlevé-type functions
33E20 Other functions defined by series and integrals
33E30 Other functions coming from differential, difference and integral equations
33E50 Special functions in characteristic p (gamma functions, etc.)
33E99 None of the above, but in this section

33Fxx Computational aspects
33F05 Numerical approximation [See also 65D20]
33F10 Symbolic computation (Gosper and Zeilberger algorithms, etc.) [See also 68W30]
33F99 None of the above, but in this section

34–XX ORDINARY DIFFERENTIAL EQUATIONS

34–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
34–01 Instructional exposition (textbooks, tutorial papers, etc.)
34–02 Research exposition (monographs, survey articles)
34–03 Historical (must also be assigned at least one classification number from Section 01)
34–04 Explicit machine computation and programs (not the theory of computation or programming)
34–06 Proceedings, conferences, collections, etc.

34Axx General theory
34A05 Explicit solutions and reductions
34A09 Implicit equations, differential-algebraic equations [See also 65L80]
34A12 Initial value problems, existence, uniqueness, continuous dependence and continuation of solutions
34A25 Analytical theory: series, transformations, transforms, operational calculus, etc. [See also 44–XX]
34A26 Geometric methods in differential equations
34A30 Linear equations and systems, general
34A34 Nonlinear equations and systems, general
34A35 Differential equations of infinite order
34A36 Discontinuous equations
34A37 Differential equations with impulses
34A40 Differential inequalities [See also 26D20]
34A45 Theoretical approximation of solutions {For numerical analysis, see 65Lxx}
34A55 Inverse problems
34A60 Differential inclusions [See also 49J24, 49K24]
34A99 None of the above, but in this section

34Bxx Boundary value problems {For ordinary differential operators, see 34Lxx}
34B05 Linear boundary value problems
34B07 Linear boundary value problems with nonlinear dependence on the spectral parameter
34B08 Multi-parameter boundary value problems
34B09 Boundary value problems with an indefinite weight
34B10 Multipoint boundary value problems
34B15 Nonlinear boundary value problems
34B16 Singular nonlinear boundary value problems
34B18 Positive solutions of nonlinear boundary value problems
34B20 Weyl theory and its generalizations
34B24 Sturm-Liouville theory [See also 34Lxx]
34B27 Green functions

34B30 Special equations (Mathieu, Hill, Bessel, etc.)
34B37 Boundary value problems with impulses
34B40 Boundary value problems on infinite intervals
34B45 Boundary value problems on graphs and networks
34B60 Applications
34B99 None of the above, but in this section
34Cxx Qualitative theory [See also 37–XX]
34C05 Location of integral curves, singular points, limit cycles
34C07 Theory of limit cycles of polynomial and analytic vector fields (existence, uniqueness, bounds, Hilbert's 16th problem and ramifications)
34C08 Connections with real algebraic geometry (fewnomials, desingularization, zeros of Abelian integrals, etc.)
34C10 Oscillation theory, zeros, disconjugacy and comparison theory
34C11 Growth, boundedness, comparison of solutions
34C12 Monotone systems
34C14 Symmetries, invariants
34C15 Nonlinear oscillations, coupled oscillators
34C20 Transformation and reduction of equations and systems, normal forms
34C23 Bifurcation [See mainly 37Gxx]
34C25 Periodic solutions
34C26 Relaxation oscillations
34C27 Almost periodic solutions
34C28 Complex behavior, chaotic systems [See mainly 37Dxx]
34C29 Averaging method
34C30 Manifolds of solutions
34C37 Homoclinic and heteroclinic solutions
34C40 Equations and systems on manifolds
34C41 Equivalence, asymptotic equivalence
34C45 Method of integral manifolds
34C55 Hysteresis
34C60 Applications
34C99 None of the above, but in this section
34Dxx Stability theory [See also 37C75, 93Dxx]
34D05 Asymptotic properties
34D08 Characteristic and Lyapunov exponents
34D09 Dichotomy, trichotomy
34D10 Perturbations
34D15 Singular perturbations
34D20 Lyapunov stability
34D23 Global stability
34D30 Structural stability and analogous concepts [See also 37C20]
34D35 Stability of manifolds of solutions
34D40 Ultimate boundedness
34D45 Attractors [See also 37C70, 37D45]
34D99 None of the above, but in this section
34Exx Asymptotic theory
34E05 Asymptotic expansions
34E10 Perturbations, asymptotics
34E13 Multiple scale methods
34E15 Singular perturbations, general theory
34E18 Methods of nonstandard analysis
34E20 Singular perturbations, turning point theory, WKB methods
34E99 None of the above, but in this section
34F05 Equations and systems with randomness [See also 34K50, 60H10, 93E03]
34Gxx Differential equations in abstract spaces [See also 34Lxx, 37Kxx, 47Dxx, 47Hxx, 47Jxx, 58D25]
34G10 Linear equations [See also 47D06, 47D09]
34G20 Nonlinear equations [See also 47Hxx, 47Jxx]
34G25 Evolution inclusions
34G99 None of the above, but in this section
34H05 Control problems [See also 49J25, 49K25, 93C15]
34Kxx Functional-differential and differential-difference equations, with or without deviating arguments [See also 37–XX]
34K05 General theory
34K06 Linear functional-differential equations
34K07 Theoretical approximation of solutions
34K10 Boundary value problems
34K11 Oscillation theory
34K12 Growth, boundedness, comparison of solutions
34K13 Periodic solutions
34K14 Almost periodic solutions
34K17 Transformation and reduction of equations and systems, normal forms
34K18 Bifurcation theory
34K19 Invariant manifolds
34K20 Stability theory
34K23 Complex (chaotic) behavior of solutions
34K25 Asymptotic theory
34K26 Singular perturbations
34K28 Numerical approximation of solutions
34K29 Inverse problems
34K30 Equations in abstract spaces [See also 34Gxx, 47Dxx, 47Jxx]
34K35 Control problems [See also 49J25, 49K25, 93C15]
34K40 Neutral equations
34K45 Equations with impulses
34K50 Stochastic delay equations [See also 34F05, 60Hxx]
34K60 Applications
34K99 None of the above, but in this section
34Lxx Ordinary differential operators [See also 47E05]
34L05 General spectral theory
34L10 Eigenfunction expansions, completeness of eigenfunctions
34L15 Estimation of eigenvalues, upper and lower bounds
34L16 Numerical approximation of eigenvalues and of other parts of the spectrum
34L20 Asymptotic distribution of eigenvalues, asymptotic theory of eigenfunctions
34L25 Scattering theory
34L30 Nonlinear ordinary differential operators
34L40 Particular operators (Dirac, one-dimensional Schrödinger, etc.)
34L99 None of the above, but in this section
34Mxx Differential equations in the complex domain [See also 30Dxx, 32G34]
34M05 Entire and meromorphic solutions
34M10 Oscillation, growth of solutions
34M15 Algebraic aspects (differential-algebraic, hypertranscendence, group-theoretical)
34M20 Nonanalytic aspects
34M25 Formal solutions, transform techniques
34M30 Asymptotics, summation methods
34M35 Singularities, monodromy, local behavior of solutions, normal forms
34M37 Resurgence phenomena
34M40 Stokes phenomena and connection problems (linear and nonlinear)
34M45 Differential equations on complex manifolds
34M50 Inverse problems (Riemann-Hilbert, inverse differential Galois, etc.)
34M55 Painlevé and other special equations; classification, hierarchies; isomonodromic deformations
34M60 Singular perturbation problems in the complex domain (complex WKB, turning points, steepest descent) [See also 34E20]
34M99 None of the above, but in this section

35–XX PARTIAL DIFFERENTIAL EQUATIONS
35–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
35–01 Instructional exposition (textbooks, tutorial papers, etc.)
35–02 Research exposition (monographs, survey articles)
35–03 Historical (must also be assigned at least one classification number from Section 01)
35–04 Explicit machine computation and programs (not the theory of computation or programming)
35–06 Proceedings, conferences, collections, etc.
35Axx General theory
35A05 General existence and uniqueness theorems
35A07 Local existence and uniqueness theorems [See also 35Hxx, 35Sxx]
35A08 Fundamental solutions
35A10 Cauchy-Kovalevskaya theorems
35A15 Variational methods
35A17 Parametrices
35A18 Wave front sets
35A20 Analytic methods, singularities
35A21 Propagation of singularities
35A22 Transform methods (e.g. integral transforms)
35A25 Other special methods
35A27 Microlocal methods; methods of sheaf theory and homological algebra in PDE [See also 32C38, 58J15]
35A30 Geometric theory, characteristics, transformations [See also 58J70, 58J72]
35A35 Theoretical approximation to solutions {For numerical analysis, see 65Mxx, 65Nxx}
35A99 None of the above, but in this section
35Bxx Qualitative properties of solutions
35B05 General behavior of solutions of PDE (comparison theorems; oscillation, zeros and growth of solutions; mean value theorems)
35B10 Periodic solutions
35B15 Almost periodic solutions
35B20 Perturbations
35B25 Singular perturbations
35B27 Homogenization; partial differential equations in media with periodic structure [See also 74Qxx, 76M50]
35B30 Dependence of solutions of PDE on initial and boundary data, parameters [See also 37Cxx]
35B32 Bifurcation [See also 37Gxx, 37K50]
35B33 Critical exponents
35B34 Resonances
35B35 Stability, boundedness

35B37 PDE in connection with control problems [See also 49J20, 49K20, 93C20]
35B38 Critical points
35B40 Asymptotic behavior of solutions
35B41 Attractors
35B42 Inertial manifolds
35B45 A priori estimates
35B50 Maximum principles
35B60 Continuation and prolongation of solutions of PDE [See also 58A15, 58A17, 58Hxx]
35B65 Smoothness and regularity of solutions of PDE
35B99 None of the above, but in this section
35Cxx Representations of solutions
35C05 Solutions in closed form
35C10 Series solutions, expansion theorems
35C15 Integral representations of solutions of PDE
35C20 Asymptotic expansions
35C99 None of the above, but in this section
35Dxx Generalized solutions of partial differential equations
35D05 Existence of generalized solutions
35D10 Regularity of generalized solutions
35D99 None of the above, but in this section
35Exx Equations and systems with constant coefficients [See also 35N05]
35E05 Fundamental solutions
35E10 Convexity properties
35E15 Initial value problems
35E20 General theory
35E99 None of the above, but in this section
35Fxx General first-order equations and systems
35F05 General theory of linear first-order PDE
35F10 Initial value problems for linear first-order PDE, linear evolution equations
35F15 Boundary value problems for linear first-order PDE
35F20 General theory of nonlinear first-order PDE
35F25 Initial value problems for nonlinear first-order PDE, nonlinear evolution equations
35F30 Boundary value problems for nonlinear first-order PDE
35F99 None of the above, but in this section
35Gxx General higher-order equations and systems
35G05 General theory of linear higher-order PDE
35G10 Initial value problems for linear higher-order PDE, linear evolution equations
35G15 Boundary value problems for linear higher-order PDE
35G20 General theory of nonlinear higher-order PDE
35G25 Initial value problems for nonlinear higher-order PDE, nonlinear evolution equations
35G30 Boundary value problems for nonlinear higher-order PDE
35G99 None of the above, but in this section
35Hxx Close-to-elliptic equations
35H10 Hypoelliptic equations
35H20 Subelliptic equations
35H30 Quasi-elliptic equations
35H99 None of the above, but in this section
35Jxx Partial differential equations of elliptic type [See also 58J10, 58J20]
35J05 Laplace equation, reduced wave equation (Helmholtz), Poisson equation [See also 31Axx, 31Bxx]
35J10 Schrödinger operator [See also 35Pxx]
35J15 General theory of second-order, elliptic equations
35J20 Variational methods for second-order, elliptic equations
35J25 Boundary value problems for second-order, elliptic equations
35J30 General theory of higher-order, elliptic equations [See also 31A30, 31B30]
35J35 Variational methods for higher-order, elliptic equations
35J40 Boundary value problems for higher-order, elliptic equations
35J45 General theory of elliptic systems of PDE
35J50 Variational methods for elliptic systems
35J55 Boundary value problems for elliptic systems
35J60 Nonlinear PDE of elliptic type
35J65 Nonlinear boundary value problems for linear elliptic PDE; boundary value problems for nonlinear elliptic PDE
35J67 Boundary values of solutions to elliptic PDE
35J70 Elliptic partial differential equations of degenerate type
35J85 Unilateral problems and variational inequalities for elliptic PDE [See also 35R35, 49J40]
35J99 None of the above, but in this section
35Kxx Parabolic equations and systems [See also 35Bxx, 35Dxx, 35R30, 35R35, 58J35]
35K05 Heat equation
35K10 General theory of second-order, parabolic equations
35K15 Initial value problems for second-order, parabolic equations
35K20 Boundary value problems for second-order, parabolic equations
35K25 General theory of higher-order, parabolic equations
35K30 Initial value problems for higher-order, parabolic equations
35K35 Boundary value problems for higher-order, parabolic equations
35K40 General theory of parabolic systems of PDE
35K45 Initial value problems for parabolic systems
35K50 Boundary value problems for parabolic systems
35K55 Nonlinear PDE of parabolic type
35K57 Reaction-diffusion equations
35K60 Nonlinear boundary value problems for linear parabolic PDE; boundary value problems for nonlinear parabolic PDE
35K65 Parabolic partial differential equations of degenerate type
35K70 Ultraparabolic, pseudoparabolic PDE, etc.
35K85 Unilateral problems and variational inequalities for parabolic PDE [See also 35R35, 49J40]
35K90 Abstract parabolic evolution equations
35K99 None of the above, but in this section
35Lxx Partial differential equations of hyperbolic type [See also 58J45]
35L05 Wave equation
35L10 General theory of second-order, hyperbolic equations
35L15 Initial value problems for second-order, hyperbolic equations
35L20 Boundary value problems for second-order, hyperbolic equations
35L25 General theory of higher-order, hyperbolic equations
35L30 Initial value problems for higher-order, hyperbolic equations
35L35 Boundary value problems for higher-order, hyperbolic equations
35L40 General theory of hyperbolic systems of first-order PDE
35L45 Initial value problems for hyperbolic systems of first-order PDE
35L50 Boundary value problems for hyperbolic systems of first-order PDE
35L55 Hyperbolic systems of higher-order PDE
35L60 Nonlinear first-order PDE of hyperbolic type
35L65 Conservation laws
35L67 Shocks and singularities [See also 58Kxx, 76L05]
35L70 Nonlinear second-order PDE of hyperbolic type
35L75 Nonlinear hyperbolic PDE of higher (>2) order
35L80 Hyperbolic PDE of degenerate type
35L82 Pseudohyperbolic equations
35L85 Unilateral problems; variational inequalities for hyperbolic PDE [See also 35R35, 49J40]
35L90 Abstract hyperbolic evolution equations
35L99 None of the above, but in this section
35Mxx Partial differential equations of special type (mixed, composite, etc.) {For degenerate types, see 35J70, 35K65, 35L80}
35M10 PDE of mixed type
35M20 PDE of composite type
35M99 None of the above, but in this section
35Nxx Overdetermined systems [See also 58Hxx, 58J10, 58J15]
35N05 Overdetermined systems with constant coefficients
35N10 Overdetermined systems with variable coefficients (general)
35N15 $\overline{\partial}$-Neumann problem and generalizations; formal complexes [See also 32W05, 32W10, 58J10]
35N99 None of the above, but in this section
35Pxx Spectral theory and eigenvalue problems for partial differential operators [See also 47Axx, 47Bxx, 47F05]
35P05 General spectral theory of PDE
35P10 Completeness of eigenfunctions, eigenfunction expansions for PDO
35P15 Estimation of eigenvalues, upper and lower bounds
35P20 Asymptotic distribution of eigenvalues and eigenfunctions for PDO
35P25 Scattering theory for PDE [See also 47A40]
35P30 Nonlinear eigenvalue problems, nonlinear spectral theory for PDO
35P99 None of the above, but in this section
35Qxx Equations of mathematical physics and other areas of application [See also 35J05, 35J10, 35K05, 35L05]
35Q05 Euler-Poisson-Darboux equation and generalizations
35Q15 Riemann-Hilbert problems [See also 30E25, 31A25, 31B20]
35Q30 Stokes and Navier-Stokes equations [See also 76D05, 76D07, 76N10]
35Q35 Other equations arising in fluid mechanics
35Q40 Equations from quantum mechanics
35Q51 Solitons [See also 37K40]
35Q53 KdV-like equations (Korteweg-de Vries, Burgers, sine-Gordon, sinh-Gordon, etc.) [See also 37K10]
35Q55 NLS-like (nonlinear Schrödinger) equations [See also 37K10]
35Q58 Other completely integrable equations [See also 37J35, 37K10]
35Q60 Equations of electromagnetic theory and optics
35Q72 Other equations from mechanics
35Q75 PDE in relativity
35Q80 Applications of PDE in areas other than physics
35Q99 None of the above, but in this section
35Rxx Miscellaneous topics involving partial differential equations {For equations on manifolds, see 58Jxx; for manifolds of solutions, see 58Bxx; for stochastic PDEs, see also 60H15}
35R05 PDE with discontinuous coefficients or data
35R10 Partial functional-differential or differential-difference equations, with or without deviating arguments
35R12 Impulsive partial differential equations

35R15 Partial differential equations on infinite-dimensional (e.g. function) spaces (= PDE in infinitely many variables) [See also 46Gxx, 58D25]
35R20 Partial operator-differential equations (i.e. PDE on finite-dimensional spaces for abstract space valued functions) [See also 34Gxx, 47A50, 47D03, 47D06, 47D09, 47H20, 47Jxx]
35R25 Improperly posed problems for PDE
35R30 Inverse problems (undetermined coefficients, etc.) for PDE
35R35 Free boundary problems for PDE
35R45 Partial differential inequalities
35R50 Partial differential equations of infinite order
35R60 Partial differential equations with randomness [See also 60H15]
35R70 PDE with multivalued right-hand sides
35R99 None of the above, but in this section
35Sxx Pseudodifferential operators and other generalizations of partial differential operators [See also 47G30, 58J40]
35S05 General theory of PsDO
35S10 Initial value problems for PsDO
35S15 Boundary value problems for PsDO
35S30 Fourier integral operators
35S35 Topological aspects: intersection cohomology, stratified sets, etc. [See also 32C38, 32S40, 32S60, 58J15]
35S50 Paradifferential operators
35S99 None of the above, but in this section

37–XX DYNAMICAL SYSTEMS AND ERGODIC THEORY [See also 26A18, 28Dxx, 34Cxx, 34Dxx, 35Bxx, 46Lxx, 58Jxx, 70–XX]
37–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
37–01 Instructional exposition (textbooks, tutorial papers, etc.)
37–02 Research exposition (monographs, survey articles)
37–03 Historical (must also be assigned at least one classification number from Section 01)
37–04 Explicit machine computation and programs (not the theory of computation or programming)
37–06 Proceedings, conferences, collections, etc.
37Axx Ergodic theory [See also 28Dxx]
37A05 Measure-preserving transformations
37A10 One-parameter continuous families of measure-preserving transformations
37A15 General groups of measure-preserving transformations [See mainly 22Fxx]
37A17 Homogeneous flows [See also 22Fxx]
37A20 Orbit equivalence, cocycles, ergodic equivalence relations
37A25 Ergodicity, mixing, rates of mixing
37A30 Ergodic theorems, spectral theory, Markov operators {For operator ergodic theory, see mainly 47A35}
37A35 Entropy and other invariants, isomorphism, classification
37A40 Nonsingular (and infinite-measure preserving) transformations
37A45 Relations with number theory and harmonic analysis [See also 11Kxx]
37A50 Relations with probability theory and stochastic processes [See also 60Fxx and 60G10]
37A55 Relations with the theory of C^*-algebras [See mainly 46L55]
37A60 Dynamical systems in statistical mechanics [See also 82Cxx]
37A99 None of the above, but in this section
37Bxx Topological dynamics [See also 54H20]
37B05 Transformations and group actions with special properties (minimality, distality, proximality, etc.)
37B10 Symbolic dynamics [See also 37Cxx, 37Dxx]
37B15 Cellular automata
37B20 Notions of recurrence
37B25 Lyapunov functions and stability; attractors, repellers
37B30 Index theory, Morse-Conley indices
37B35 Gradient-like and recurrent behavior; isolated (locally-maximal) invariant sets
37B40 Topological entropy
37B45 Continua theory in dynamics
37B50 Multi-dimensional shifts of finite type, tiling dynamics
37B55 Nonautonomous dynamical systems
37B99 None of the above, but in this section
37Cxx Smooth dynamical systems: general theory [See also 34Cxx, 34Dxx]
37C05 Smooth mappings and diffeomorphisms
37C10 Vector fields, flows, ordinary differential equations
37C15 Topological and differentiable equivalence, conjugacy, invariants, moduli, classification
37C20 Generic properties, structural stability
37C25 Fixed points, periodic points, fixed-point index theory
37C27 Periodic orbits of vector fields and flows
37C29 Homoclinic and heteroclinic orbits
37C30 Zeta functions, (Ruelle-Frobenius) transfer operators, and other functional analytic techniques in dynamical systems
37C35 Orbit growth
37C40 Smooth ergodic theory, invariant measures [See also 37Dxx]
37C45 Dimension theory of dynamical systems
37C50 Approximate trajectories (pseudotrajectories, shadowing, etc.)
37C55 Periodic and quasiperiodic flows and diffeomorphisms
37C60 Nonautonomous smooth dynamical systems [See also 37B55]
37C65 Monotone flows
37C70 Attractors and repellers, topological structure
37C75 Stability theory
37C80 Symmetries, equivariant dynamical systems
37C85 Dynamics of group actions other than **Z** and **R**, and foliations [See mainly 22Fxx, and also 57R30, 57Sxx]
37C99 None of the above, but in this section
37Dxx Dynamical systems with hyperbolic behavior
37D05 Hyperbolic orbits and sets
37D10 Invariant manifold theory
37D15 Morse-Smale systems
37D20 Uniformly hyperbolic systems (expanding, Anosov, Axiom A, etc.)
37D25 Nonuniformly hyperbolic systems (Lyapunov exponents, Pesin theory, etc.)
37D30 Partially hyperbolic systems and dominated splittings
37D35 Thermodynamic formalism, variational principles, equilibrium states
37D40 Dynamical systems of geometric origin and hyperbolicity (geodesic and horocycle flows, etc.)
37D45 Strange attractors, chaotic dynamics
37D50 Hyperbolic systems with singularities (billiards, etc.)
37D99 None of the above, but in this section
37Exx Low-dimensional dynamical systems
37E05 Maps of the interval (piecewise continuous, continuous, smooth)
37E10 Maps of the circle
37E15 Combinatorial dynamics (types of periodic orbits)
37E20 Universality, renormalization [See also 37F25]
37E25 Maps of trees and graphs
37E30 Homeomorphisms and diffeomorphisms of planes and surfaces
37E35 Flows on surfaces
37E40 Twist maps
37E45 Rotation numbers and vectors
37E99 None of the above, but in this section
37Fxx Complex dynamical systems [See also 30D05, 32H50]
37F05 Relations and correspondences
37F10 Polynomials; rational maps; entire and meromorphic functions [See also 32A10, 32A20, 32H02, 32H04]
37F15 Expanding maps; hyperbolicity; structural stability
37F20 Combinatorics and topology
37F25 Renormalization
37F30 Quasiconformal methods and Teichmüller theory; Fuchsian and Kleinian groups as dynamical systems
37F35 Conformal densities and Hausdorff dimension
37F40 Geometric limits
37F45 Holomorphic families of dynamical systems; the Mandelbrot set; bifurcations
37F50 Small divisors, rotation domains and linearization; Fatou and Julia sets
37F75 Holomorphic foliations and vector fields [See also 32M25, 32S65, 34Mxx]
37F99 None of the above, but in this section
37Gxx Local and nonlocal bifurcation theory [See also 34C23, 34K18]
37G05 Normal forms
37G10 Bifurcations of singular points
37G15 Bifurcations of limit cycles and periodic orbits
37G20 Hyperbolic singular points with homoclinic trajectories
37G25 Bifurcations connected with nontransversal intersection
37G30 Infinite nonwandering sets arising in bifurcations
37G35 Attractors and their bifurcations
37G40 Symmetries, equivariant bifurcation theory
37G99 None of the above, but in this section
37Hxx Random dynamical systems [See also 15A52, 34D08, 34F05, 47B80, 70L05, 82C05, 93Exx]
37H05 Foundations, general theory of cocycles, algebraic ergodic theory [See also 37Axx]
37H10 Generation, random and stochastic difference and differential equations [See also 34F05, 34K50, 60H10, 60H15]
37H15 Multiplicative ergodic theory, Lyapunov exponents [See also 34D08, 37Axx, 37Cxx, 37Dxx]
37H20 Bifurcation theory [See also 37Gxx]
37H99 None of the above, but in this section
37Jxx Finite-dimensional Hamiltonian, Lagrangian, contact, and nonholonomic systems [See also 53Dxx, 70Fxx, 70Hxx]
37J05 General theory, relations with symplectic geometry and topology
37J10 Symplectic mappings, fixed points
37J15 Symmetries, invariants, invariant manifolds, momentum maps, reduction [See also 53D20]
37J20 Bifurcation problems
37J25 Stability problems

37J30 Obstructions to integrability (nonintegrability criteria)
37J35 Completely integrable systems, topological structure of phase space, integration methods
37J40 Perturbations, normal forms, small divisors, KAM theory, Arnol'd diffusion
37J45 Periodic, homoclinic and heteroclinic orbits; variational methods, degree-theoretic methods
37J50 Action-minimizing orbits and measures
37J55 Contact systems [See also 53D10]
37J60 Nonholonomic dynamical systems [See also 70F25]
37J99 None of the above, but in this section

37Kxx Infinite-dimensional Hamiltonian systems [See also 35Axx, 35Qxx]
37K05 Hamiltonian structures, symmetries, variational principles, conservation laws
37K10 Completely integrable systems, integrability tests, bi-Hamiltonian structures, hierarchies (KdV, KP, Toda, etc.)
37K15 Integration of completely integrable systems by inverse spectral and scattering methods
37K20 Relations with algebraic geometry, complex analysis, special functions [See also 14H70]
37K25 Relations with differential geometry
37K30 Relations with infinite-dimensional Lie algebras and other algebraic structures
37K35 Lie-Bäcklund and other transformations
37K40 Soliton theory, asymptotic behavior of solutions
37K45 Stability problems
37K50 Bifurcation problems
37K55 Perturbations, KAM for infinite-dimensional systems
37K60 Lattice dynamics [See also 37L60]
37K65 Hamiltonian systems on groups of diffeomorphisms and on manifolds of mappings and metrics
37K99 None of the above, but in this section

37Lxx Infinite-dimensional dissipative dynamical systems [See also 35Bxx, 35Qxx]
37L05 General theory, nonlinear semigroups, evolution equations
37L10 Normal forms, center manifold theory, bifurcation theory
37L15 Stability problems
37L20 Symmetries
37L25 Inertial manifolds and other invariant attracting sets
37L30 Attractors and their dimensions, Lyapunov exponents
37L40 Invariant measures
37L45 Hyperbolicity; Lyapunov functions
37L50 Noncompact semigroups; dispersive equations; perturbations of Hamiltonian systems
37L55 Infinite-dimensional random dynamical systems; stochastic equations [See also 35R60, 60H10, 60H15]
37L60 Lattice dynamics [See also 37K60]
37L65 Special approximation methods (nonlinear Galerkin, etc.)
37L99 None of the above, but in this section

37Mxx Approximation methods and numerical treatment of dynamical systems [See also 65Pxx]
37M05 Simulation
37M10 Time series analysis
37M15 Symplectic integrators
37M20 Computational methods for bifurcation problems
37M25 Computational methods for ergodic theory (approximation of invariant measures, computation of Lyapunov exponents, entropy)
37M99 None of the above, but in this section

37Nxx Applications
37N05 Dynamical systems in classical and celestial mechanics [See mainly 70Fxx, 70Hxx, 70Kxx]
37N10 Dynamical systems in fluid mechanics, oceanography and meteorology [See mainly 76–XX, especially 76D05, 76F20, 86A05, 86A10]
37N15 Dynamical systems in solid mechanics [See mainly 74Hxx]
37N20 Dynamical systems in other branches of physics (quantum mechanics, general relativity, laser physics)
37N25 Dynamical systems in biology [See mainly 92–XX, but also 91–XX]
37N30 Dynamical systems in numerical analysis
37N35 Dynamical systems in control
37N40 Dynamical systems in optimization and economics
37N99 None of the above, but in this section

39–XX DIFFERENCE AND FUNCTIONAL EQUATIONS

39–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
39–01 Instructional exposition (textbooks, tutorial papers, etc.)
39–02 Research exposition (monographs, survey articles)
39–03 Historical (must also be assigned at least one classification number from Section 01)
39–04 Explicit machine computation and programs (not the theory of computation or programming)
39–06 Proceedings, conferences, collections, etc.

39Axx Difference equations {For dynamical systems, see 37–XX}
39A05 General
39A10 Difference equations, additive
39A11 Stability and asymptotics of difference equations; oscillatory and periodic solutions, etc.
39A12 Discrete version of topics in analysis
39A13 Difference equations, scaling (q-differences) [See also 33Dxx]
39A20 Multiplicative and other generalized difference equations, e.g. of Lyness type
39A70 Difference operators [See also 47B39]
39A99 None of the above, but in this section

39Bxx Functional equations and inequalities [See also 30D05]
39B05 General
39B12 Iteration theory, iterative and composite equations [See also 26A18, 30D05, 37–XX]
39B22 Equations for real functions [See also 26A51, 26B25]
39B32 Equations for complex functions [See also 30D05]
39B42 Matrix and operator equations [See also 47Jxx]
39B52 Equations for functions with more general domains and/or ranges
39B55 Orthogonal additivity and other conditional equations
39B62 Functional inequalities, including subadditivity, convexity, etc. [See also 26A51, 26B25, 26Dxx]
39B72 Systems of functional equations and inequalities
39B82 Stability, separation, extension, and related topics [See also 46A22]
39B99 None of the above, but in this section

40–XX SEQUENCES, SERIES, SUMMABILITY

40–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
40–01 Instructional exposition (textbooks, tutorial papers, etc.)
40–02 Research exposition (monographs, survey articles)
40–03 Historical (must also be assigned at least one classification number from Section 01)
40–04 Explicit machine computation and programs (not the theory of computation or programming)
40–06 Proceedings, conferences, collections, etc.

40Axx Convergence and divergence of infinite limiting processes
40A05 Convergence and divergence of series and sequences
40A10 Convergence and divergence of integrals
40A15 Convergence and divergence of continued fractions [See also 30B70]
40A20 Convergence and divergence of infinite products
40A25 Approximation to limiting values (summation of series, etc.) {For the Euler-Maclaurin summation formula, see 65B15}
40A30 Convergence and divergence of series and sequences of functions
40A99 None of the above, but in this section

40B05 Multiple sequences and series (should also be assigned at least one other classification number in this section)

40Cxx General summability methods
40C05 Matrix methods
40C10 Integral methods
40C15 Function-theoretic methods (including power series methods and semicontinuous methods)
40C99 None of the above, but in this section

40Dxx Direct theorems on summability
40D05 General theorems
40D09 Structure of summability fields
40D10 Tauberian constants and oscillation limits
40D15 Convergence factors and summability factors
40D20 Summability and bounded fields of methods
40D25 Inclusion and equivalence theorems
40D99 None of the above, but in this section

40Exx Inversion theorems
40E05 Tauberian theorems, general
40E10 Growth estimates
40E15 Lacunary inversion theorems
40E20 Tauberian constants
40E99 None of the above, but in this section

40F05 Absolute and strong summability

40Gxx Special methods of summability
40G05 Cesàro, Euler, Nörlund and Hausdorff methods
40G10 Abel, Borel and power series methods
40G99 None of the above, but in this section

40H05 Functional analytic methods in summability

40J05 Summability in abstract structures [See also 43A55, 46A35, 46B15]

41–XX APPROXIMATIONS AND EXPANSIONS {For all approximation theory in the complex domain, see 30E05 and 30E10; for all trigonometric approximation and interpolation, see 42A10 and 42A15; for numerical approximation, see 65Dxx}

41–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
41–01 Instructional exposition (textbooks, tutorial papers, etc.)
41–02 Research exposition (monographs, survey articles)
41–03 Historical (must also be assigned at least one classification number from Section 01)

41–04 Explicit machine computation and programs (not the theory of computation or programming)
41–06 Proceedings, conferences, collections, etc.
41A05 Interpolation [See also 42A15 and 65D05]
41A10 Approximation by polynomials {For approximation by trigonometric polynomials, see 42A10}
41A15 Spline approximation
41A17 Inequalities in approximation (Bernstein, Jackson, Nikol′skiĭ-type inequalities)
41A20 Approximation by rational functions
41A21 Padé approximation
41A25 Rate of convergence, degree of approximation
41A27 Inverse theorems
41A28 Simultaneous approximation
41A29 Approximation with constraints
41A30 Approximation by other special function classes
41A35 Approximation by operators (in particular, by integral operators)
41A36 Approximation by positive operators
41A40 Saturation
41A44 Best constants
41A45 Approximation by arbitrary linear expressions
41A46 Approximation by arbitrary nonlinear expressions; widths and entropy
41A50 Best approximation, Chebyshev systems
41A52 Uniqueness of best approximation
41A55 Approximate quadratures
41A58 Series expansions (e.g. Taylor, Lidstone series, but not Fourier series)
41A60 Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15]
41A63 Multidimensional problems (should also be assigned at least one other classification number in this section)
41A65 Abstract approximation theory (approximation in normed linear spaces and other abstract spaces)
41A80 Remainders in approximation formulas
41A99 Miscellaneous topics

42–XX FOURIER ANALYSIS
42–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
42–01 Instructional exposition (textbooks, tutorial papers, etc.)
42–02 Research exposition (monographs, survey articles)
42–03 Historical (must also be assigned at least one classification number from Section 01)
42–04 Explicit machine computation and programs (not the theory of computation or programming)
42–06 Proceedings, conferences, collections, etc.
42Axx Fourier analysis in one variable
42A05 Trigonometric polynomials, inequalities, extremal problems
42A10 Trigonometric approximation
42A15 Trigonometric interpolation
42A16 Fourier coefficients, Fourier series of functions with special properties, special Fourier series {For automorphic theory, see mainly 11F30}
42A20 Convergence and absolute convergence of Fourier and trigonometric series
42A24 Summability and absolute summability of Fourier and trigonometric series
42A32 Trigonometric series of special types (positive coefficients, monotonic coefficients, etc.)
42A38 Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type
42A45 Multipliers
42A50 Conjugate functions, conjugate series, singular integrals
42A55 Lacunary series of trigonometric and other functions; Riesz products
42A61 Probabilistic methods
42A63 Uniqueness of trigonometric expansions, uniqueness of Fourier expansions, Riemann theory, localization
42A65 Completeness of sets of functions
42A70 Trigonometric moment problems
42A75 Classical almost periodic functions, mean periodic functions [See also 43A60]
42A82 Positive definite functions
42A85 Convolution, factorization
42A99 None of the above, but in this section
42Bxx Fourier analysis in several variables {For automorphic theory, see mainly 11F30}
42B05 Fourier series and coefficients
42B08 Summability
42B10 Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type
42B15 Multipliers
42B20 Singular integrals (Calderón-Zygmund, etc.)
42B25 Maximal functions, Littlewood-Paley theory
42B30 H^p-spaces
42B35 Function spaces arising in harmonic analysis
42B99 None of the above, but in this section
42Cxx Nontrigonometric Fourier analysis
42C05 Orthogonal functions and polynomials, general theory [See also 33C45, 33C50, 33D45]
42C10 Fourier series in special orthogonal functions (Legendre polynomials, Walsh functions, etc.)
42C15 Series of general orthogonal functions, generalized Fourier expansions, nonorthogonal expansions
42C20 Rearrangements and other transformations of Fourier and other orthogonal series
42C25 Uniqueness and localization for orthogonal series
42C30 Completeness of sets of functions
42C40 Wavelets
42C99 None of the above, but in this section

43–XX ABSTRACT HARMONIC ANALYSIS {For other analysis on topological and Lie groups, see 22Exx}
43–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
43–01 Instructional exposition (textbooks, tutorial papers, etc.)
43–02 Research exposition (monographs, survey articles)
43–03 Historical (must also be assigned at least one classification number from Section 01)
43–04 Explicit machine computation and programs (not the theory of computation or programming)
43–06 Proceedings, conferences, collections, etc.
43A05 Measures on groups and semigroups, etc.
43A07 Means on groups, semigroups, etc.; amenable groups
43A10 Measure algebras on groups, semigroups, etc.
43A15 L^p-spaces and other function spaces on groups, semigroups, etc.
43A17 Analysis on ordered groups, H^p-theory
43A20 L^1-algebras on groups, semigroups, etc.
43A22 Homomorphisms and multipliers of function spaces on groups, semigroups, etc.
43A25 Fourier and Fourier-Stieltjes transforms on locally compact abelian groups
43A30 Fourier and Fourier-Stieltjes transforms on nonabelian groups and on semigroups, etc.
43A32 Other transforms and operators of Fourier type
43A35 Positive definite functions on groups, semigroups, etc.
43A40 Character groups and dual objects
43A45 Spectral synthesis on groups, semigroups, etc.
43A46 Special sets (thin sets, Kronecker sets, Helson sets, Ditkin sets, Sidon sets, etc.)
43A50 Convergence of Fourier series and of inverse transforms
43A55 Summability methods on groups, semigroups, etc. [See also 40J05]
43A60 Almost periodic functions on groups and semigroups and their generalizations (recurrent functions, distal functions, etc.); almost automorphic functions
43A62 Hypergroups
43A65 Representations of groups, semigroups, etc. [See also 22A10, 22A20, 22Dxx, 22E45]
43A70 Analysis on specific locally compact abelian groups [See also 11R56, 22B05]
43A75 Analysis on specific compact groups
43A77 Analysis on general compact groups
43A80 Analysis on other specific Lie groups [See also 22Exx]
43A85 Analysis on homogeneous spaces
43A90 Spherical functions [See also 22E45, 22E46, 33C65]
43A95 Categorical methods [See also 46Mxx]
43A99 Miscellaneous topics

44–XX INTEGRAL TRANSFORMS, OPERATIONAL CALCULUS {For fractional derivatives and integrals, see 26A33. For Fourier transforms, see 42A38, 42B10. For integral transforms in distribution spaces, see 46F12. For numerical methods, see 65R10}
44–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
44–01 Instructional exposition (textbooks, tutorial papers, etc.)
44–02 Research exposition (monographs, survey articles)
44–03 Historical (must also be assigned at least one classification number from Section 01)
44–04 Explicit machine computation and programs (not the theory of computation or programming)
44–06 Proceedings, conferences, collections, etc.
44A05 General transforms [See also 42A38]
44A10 Laplace transform
44A12 Radon transform [See also 92C55]
44A15 Special transforms (Legendre, Hilbert, etc.)
44A20 Transforms of special functions
44A30 Multiple transforms
44A35 Convolution
44A40 Calculus of Mikusiński and other operational calculi
44A45 Classical operational calculus
44A55 Discrete operational calculus
44A60 Moment problems

44A99 Miscellaneous topics

45–XX INTEGRAL EQUATIONS
45–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
45–01 Instructional exposition (textbooks, tutorial papers, etc.)
45–02 Research exposition (monographs, survey articles)
45–03 Historical (must also be assigned at least one classification number from Section 01)
45–04 Explicit machine computation and programs (not the theory of computation or programming)
45–06 Proceedings, conferences, collections, etc.
45A05 Linear integral equations
45B05 Fredholm integral equations
45C05 Eigenvalue problems [See also 34Lxx, 35Pxx, 45P05, 47A75]
45D05 Volterra integral equations [See also 34A12]
45Exx Singular integral equations [See also 30E20, 30E25, 44A15, 44A35]
45E05 Integral equations with kernels of Cauchy type [See also 35J15]
45E10 Integral equations of the convolution type (Abel, Picard, Toeplitz and Wiener-Hopf type) [See also 47B35]
45E99 None of the above, but in this section
45Fxx Systems of linear integral equations
45F05 Systems of nonsingular linear integral equations
45F10 Dual, triple, etc., integral and series equations
45F15 Systems of singular linear integral equations
45F99 None of the above, but in this section
45Gxx Nonlinear integral equations [See also 47H30, 47Jxx]
45G05 Singular nonlinear integral equations
45G10 Other nonlinear integral equations
45G15 Systems of nonlinear integral equations
45H05 Miscellaneous special kernels [See also 44A15]
45J05 Integro-ordinary differential equations [See also 34K05, 34K30, 47G20]
45K05 Integro-partial differential equations [See also 34K30, 35R10, 47G20]
45L05 Theoretical approximation of solutions {For numerical analysis, see 65Rxx}
45Mxx Qualitative behavior
45M05 Asymptotics
45M10 Stability theory
45M15 Periodic solutions
45M20 Positive solutions
45M99 None of the above, but in this section
45N05 Abstract integral equations, integral equations in abstract spaces
45P05 Integral operators [See also 47B38, 47G10]
45Q05 Inverse problems
45R05 Random integral equations [See also 60H20]

46–XX FUNCTIONAL ANALYSIS {For manifolds modeled on topological linear spaces, see 57Nxx, 58Bxx}
46–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
46–01 Instructional exposition (textbooks, tutorial papers, etc.)
46–02 Research exposition (monographs, survey articles)
46–03 Historical (must also be assigned at least one classification number from Section 01)
46–04 Explicit machine computation and programs (not the theory of computation or programming)
46–06 Proceedings, conferences, collections, etc.
46Axx Topological linear spaces and related structures {For function spaces, see 46Exx}
46A03 General theory of locally convex spaces
46A04 Locally convex Fréchet spaces and (DF)-spaces
46A08 Barrelled spaces, bornological spaces
46A11 Spaces determined by compactness or summability properties (nuclear spaces, Schwartz spaces, Montel spaces, etc.)
46A13 Spaces defined by inductive or projective limits (LB, LF, etc.) [See also 46M40]
46A16 Not locally convex spaces (metrizable topological linear spaces, locally bounded spaces, quasi-Banach spaces, etc.)
46A17 Bornologies and related structures; Mackey convergence, etc.
46A19 Other "topological" linear spaces (convergence spaces, ranked spaces, spaces with a metric taking values in an ordered structure more general than $\mathbf{R}$, etc.)
46A20 Duality theory
46A22 Theorems of Hahn-Banach type; extension and lifting of functionals and operators [See also 46M10]
46A25 Reflexivity and semi-reflexivity [See also 46B10]
46A30 Open mapping and closed graph theorems; completeness (including B-, B_r-completeness)
46A32 Spaces of linear operators; topological tensor products; approximation properties [See also 46B28, 46M05, 47L05, 47L20]
46A35 Summability and bases [See also 46B15]
46A40 Ordered topological linear spaces, vector lattices [See also 06F20, 46B40, 46B42]
46A45 Sequence spaces (including Köthe sequence spaces) [See also 46B45]
46A50 Compactness in topological linear spaces; angelic spaces, etc.
46A55 Convex sets in topological linear spaces; Choquet theory [See also 52A07]
46A61 Graded Fréchet spaces and tame operators
46A63 Topological invariants ((DN), (Ω), etc.)
46A70 Saks spaces and their duals (strict topologies, mixed topologies, two-norm spaces, co-Saks spaces, etc.)
46A80 Modular spaces
46A99 None of the above, but in this section
46Bxx Normed linear spaces and Banach spaces; Banach lattices {For function spaces, see 46Exx}
46B03 Isomorphic theory (including renorming) of Banach spaces
46B04 Isometric theory of Banach spaces
46B07 Local theory of Banach spaces
46B08 Ultraproduct techniques in Banach space theory [See also 46M07]
46B09 Probabilistic methods in Banach space theory [See also 60Bxx]
46B10 Duality and reflexivity [See also 46A25]
46B15 Summability and bases [See also 46A35]
46B20 Geometry and structure of normed linear spaces
46B22 Radon-Nikodým, Kreĭn-Milman and related properties [See also 46G10]
46B25 Classical Banach spaces in the general theory
46B26 Nonseparable Banach spaces
46B28 Spaces of operators; tensor products; approximation properties [See also 46A32, 46M05, 47L05, 47L20]
46B40 Ordered normed spaces [See also 46A40, 46B42]
46B42 Banach lattices [See also 46A40, 46B40]
46B45 Banach sequence spaces [See also 46A45]
46B50 Compactness in Banach (or normed) spaces
46B70 Interpolation between normed linear spaces [See also 46M35]
46B99 None of the above, but in this section
46Cxx Inner product spaces and their generalizations, Hilbert spaces {For function spaces, see 46Exx}
46C05 Hilbert and pre-Hilbert spaces: geometry and topology (including spaces with semidefinite inner product)
46C07 Hilbert subspaces (= operator ranges); complementation (Aronszajn, de Branges, etc.) [See also 46B70, 46M35]
46C15 Characterizations of Hilbert spaces
46C20 Spaces with indefinite inner product (Kreĭn spaces, Pontryagin spaces, etc.) [See also 47B50]
46C50 Generalizations of inner products (semi-inner products, partial inner products, etc.)
46C99 None of the above, but in this section
46Exx Linear function spaces and their duals [See also 30H05, 32A38, 46F05] {For function algebras, see 46J10}
46E05 Lattices of continuous, differentiable or analytic functions
46E10 Topological linear spaces of continuous, differentiable or analytic functions
46E15 Banach spaces of continuous, differentiable or analytic functions
46E20 Hilbert spaces of continuous, differentiable or analytic functions
46E22 Hilbert spaces with reproducing kernels (= [proper] functional Hilbert spaces, including de Branges-Rovnyak and other structured spaces) [See also 47B32]
46E25 Rings and algebras of continuous, differentiable or analytic functions {For Banach function algebras, see 46J10, 46J15}
46E27 Spaces of measures [See also 28A33, 46Gxx]
46E30 Spaces of measurable functions (L^p-spaces, Orlicz spaces, Köthe function spaces, Lorentz spaces, rearrangement invariant spaces, ideal spaces, etc.)
46E35 Sobolev spaces and other spaces of "smooth" functions, embedding theorems, trace theorems
46E39 Sobolev (and similar kinds of) spaces of functions of discrete variables
46E40 Spaces of vector- and operator-valued functions
46E50 Spaces of differentiable or holomorphic functions on infinite-dimensional spaces [See also 46G20, 46G25, 47H60]
46E99 None of the above, but in this section
46Fxx Distributions, generalized functions, distribution spaces [See also 46T30]
46F05 Topological linear spaces of test functions, distributions and ultradistributions [See also 46E10, 46E35]
46F10 Operations with distributions
46F12 Integral transforms in distribution spaces [See also 42–XX, 44–XX]
46F15 Hyperfunctions, analytic functionals [See also 32A25, 32A45, 32C35, 58J15]
46F20 Distributions and ultradistributions as boundary values of analytic functions [See also 30D40, 30E25, 32A40]
46F25 Distributions on infinite-dimensional spaces [See also 58C35]
46F30 Generalized functions for nonlinear analysis (Rosinger, Colombeau, nonstandard, etc.)
46F99 None of the above, but in this section
46Gxx Measures, integration, derivative, holomorphy (all involving infinite-dimensional spaces) [See also 28–XX, 46Txx]
46G05 Derivatives [See also 46T20, 58C20, 58C25]
46G10 Vector-valued measures and integration [See also 28Bxx, 46B22]

46G12 Measures and integration on abstract linear spaces [See also 28C20, 46T12]
46G15 Functional analytic lifting theory [See also 28A51]
46G20 Infinite-dimensional holomorphy [See also 32–XX, 46E50, 46T25, 58B12, 58C10]
46G25 (Spaces of) multilinear mappings, polynomials [See also 46E50, 46G20, 47H60]
46G99 None of the above, but in this section
46Hxx Topological algebras, normed rings and algebras, Banach algebras {For group algebras, convolution algebras and measure algebras, see 43A10, 43A20}
46H05 General theory of topological algebras
46H10 Ideals and subalgebras
46H15 Representations of topological algebras
46H20 Structure, classification of topological algebras
46H25 Normed modules and Banach modules, topological modules (if not placed in 13–XX or 16–XX)
46H30 Functional calculus in topological algebras [See also 47A60]
46H35 Topological algebras of operators [See mainly 47Lxx]
46H40 Automatic continuity
46H70 Nonassociative topological algebras [See also 46K70, 46L70]
46H99 None of the above, but in this section
46Jxx Commutative Banach algebras and commutative topological algebras [See also 46E25]
46J05 General theory of commutative topological algebras
46J10 Banach algebras of continuous functions, function algebras [See also 46E25]
46J15 Banach algebras of differentiable or analytic functions, H^p-spaces [See also 30D55, 30H05, 32A35, 32A37, 32A38, 42B30]
46J20 Ideals, maximal ideals, boundaries
46J25 Representations of commutative topological algebras
46J30 Subalgebras
46J40 Structure, classification of commutative topological algebras
46J45 Radical Banach algebras
46J99 None of the above, but in this section
46Kxx Topological (rings and) algebras with an involution [See also 16W10]
46K05 General theory of topological algebras with involution
46K10 Representations of topological algebras with involution
46K15 Hilbert algebras
46K50 Nonselfadjoint (sub)algebras in algebras with involution
46K70 Nonassociative topological algebras with an involution [See also 46H70, 46L70]
46K99 None of the above, but in this section
46Lxx Selfadjoint operator algebras (C^*-algebras, von Neumann (W^*-) algebras, etc.) [See also 22D25, 47Lxx]
46L05 General theory of C^*-algebras
46L06 Tensor products of C^*-algebras
46L07 Operator spaces and completely bounded maps [See also 47L25]
46L08 C^*-modules
46L09 Free products of C^*-algebras
46L10 General theory of von Neumann algebras
46L30 States
46L35 Classifications of C^*-algebras, factors
46L37 Subfactors and their classification
46L40 Automorphisms
46L45 Decomposition theory for C^*-algebras
46L51 Noncommutative measure and integration
46L52 Noncommutative function spaces
46L53 Noncommutative probability and statistics
46L54 Free probability and free operator algebras
46L55 Noncommutative dynamical systems [See also 28Dxx, 37Kxx, 37Lxx, 54H20]
46L57 Derivations, dissipations and positive semigroups in C^*-algebras
46L60 Applications of selfadjoint operator algebras to physics [See also 46N50, 46N55, 47L90, 81T05, 82B10, 82C10]
46L65 Quantizations, deformations
46L70 Nonassociative selfadjoint operator algebras [See also 46H70, 46K70]
46L80 K-theory and operator algebras (including cyclic theory) [See also 18F25, 19Kxx, 46M20, 55Rxx, 58J22]
46L85 Noncommutative topology [See also 58B32, 58B34, 58J22]
46L87 Noncommutative differential geometry [See also 58B32, 58B34, 58J22]
46L89 Other "noncommutative" mathematics based on C^*-algebra theory [See also 58B32, 58B34, 58J22]
46L99 None of the above, but in this section
46Mxx Methods of category theory in functional analysis [See also 18–XX]
46M05 Tensor products [See also 46A32, 46B28, 47A80]
46M07 Ultraproducts [See also 46B08, 46S20]
46M10 Projective and injective objects [See also 46A22]
46M15 Categories, functors {For K-theory, EXT, etc., see 19K33, 46L80, 46M18, 46M20}
46M18 Homological methods (exact sequences, right inverses, lifting, etc.)
46M20 Methods of algebraic topology (cohomology, sheaf and bundle theory, etc.) [See also 14F05, 18Fxx, 19Kxx, 32Cxx, 32Lxx, 46L80, 46M15, 46M18, 55Rxx]
46M35 Abstract interpolation of topological vector spaces [See also 46B70]
46M40 Inductive and projective limits [See also 46A13]
46M99 None of the above, but in this section
46Nxx Miscellaneous applications of functional analysis [See also 47Nxx]
46N10 Applications in optimization, convex analysis, mathematical programming, economics
46N20 Applications to differential and integral equations
46N30 Applications in probability theory and statistics
46N40 Applications in numerical analysis [See also 65Jxx]
46N50 Applications in quantum physics
46N55 Applications in statistical physics
46N60 Applications in biology and other sciences
46N99 None of the above, but in this section
46Sxx Other (nonclassical) types of functional analysis [See also 47Sxx]
46S10 Functional analysis over fields other than **R** or **C** or the quaternions; non-Archimedean functional analysis [See also 12J25, 32P05]
46S20 Nonstandard functional analysis [See also 03H05]
46S30 Constructive functional analysis [See also 03F60]
46S40 Fuzzy functional analysis [See also 03E72]
46S50 Functional analysis in probabilistic metric linear spaces
46S60 Functional analysis on superspaces (supermanifolds) or graded spaces [See also 58A50 and 58C50]
46S99 None of the above, but in this section
46Txx Nonlinear functional analysis [See also 47Hxx, 47Jxx, 58Cxx, 58Dxx]
46T05 Infinite-dimensional manifolds [See also 53Axx, 57N20, 58Bxx, 58Dxx]
46T10 Manifolds of mappings
46T12 Measure (Gaussian, cylindrical, etc.) and integrals (Feynman, path, Fresnel, etc.) on manifolds [See also 28Cxx, 46G12, 60–XX]
46T20 Continuous and differentiable maps [See also 46G05]
46T25 Holomorphic maps [See also 46G20]
46T30 Distributions and generalized functions on nonlinear spaces [See also 46Fxx]
46T99 None of the above, but in this section

47–XX OPERATOR THEORY

47–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
47 01 Instructional exposition (textbooks, tutorial papers, etc.)
47–02 Research exposition (monographs, survey articles)
47–03 Historical (must also be assigned at least one classification number from Section 01)
47–04 Explicit machine computation and programs (not the theory of computation or programming)
47–06 Proceedings, conferences, collections, etc.
47Axx General theory of linear operators
47A05 General (adjoints, conjugates, products, inverses, domains, ranges, etc.)
47A06 Linear relations (multivalued linear operators)
47A07 Forms (bilinear, sesquilinear, multilinear)
47A10 Spectrum, resolvent
47A11 Local spectral properties
47A12 Numerical range, numerical radius
47A13 Several-variable operator theory (spectral, Fredholm, etc.)
47A15 Invariant subspaces
47A16 Cyclic and hypercyclic vectors
47A20 Dilations, extensions, compressions
47A25 Spectral sets
47A30 Norms (inequalities, more than one norm, etc.)
47A35 Ergodic theory [See also 28Dxx, 37Axx]
47A40 Scattering theory [See also 34L25, 35P25, 81Uxx]
47A45 Canonical models for contractions and nonselfadjoint operators
47A46 Chains (nests) of projections or of invariant subspaces, integrals along chains, etc.
47A48 Operator colligations (= nodes), vessels, linear systems, characteristic functions, realizations, etc.
47A50 Equations and inequalities involving linear operators, with vector unknowns
47A52 Ill-posed problems, regularization
47A53 (Semi-) Fredholm operators; index theories [See also 58B15, 58J20]
47A55 Perturbation theory
47A56 Functions whose values are linear operators (operator and matrix valued functions, etc., including analytic and meromorphic ones)
47A57 Operator methods in interpolation, moment and extension problems [See also 30E05, 42A70, 42A82, 44A60]
47A58 Operator approximation theory
47A60 Functional calculus
47A62 Equations involving linear operators, with operator unknowns
47A63 Operator inequalities
47A64 Operator means, shorted operators, etc.

47A65 Structure theory
47A66 Quasitriangular and nonquasitriangular, quasidiagonal and nonquasidiagonal operators
47A67 Representation theory
47A68 Factorization theory (including Wiener-Hopf and spectral factorizations)
47A70 (Generalized) eigenfunction expansions; rigged Hilbert spaces
47A75 Eigenvalue problems [See also 49R50]
47A80 Tensor products of operators [See also 46M05]
47A99 None of the above, but in this section
47Bxx Special classes of linear operators
47B06 Riesz operators; eigenvalue distributions; approximation numbers, s-numbers, Kolmogorov numbers, entropy numbers, etc. of operators
47B07 Operators defined by compactness properties
47B10 Operators belonging to operator ideals (nuclear, p-summing, in the Schatten-von Neumann classes, etc.) [See also 47L20]
47B15 Hermitian and normal operators (spectral measures, functional calculus, etc.)
47B20 Subnormal operators, hyponormal operators, etc.
47B25 Symmetric and selfadjoint operators (unbounded)
47B32 Operators in reproducing-kernel Hilbert spaces (including de Branges, de Branges-Rovnyak, and other structured spaces) [See also 46E22]
47B33 Composition operators
47B34 Kernel operators
47B35 Toeplitz operators, Hankel operators, Wiener-Hopf operators [See also 45P05, 47G10 for other integral operators; see also 32A25, 32M15]
47B36 Jacobi (tridiagonal) operators (matrices) and generalizations
47B37 Operators on special spaces (weighted shifts, operators on sequence spaces, etc.)
47B38 Operators on function spaces (general)
47B39 Difference operators [See also 39A70]
47B40 Spectral operators, decomposable operators, well-bounded operators, etc.
47B44 Accretive operators, dissipative operators, etc.
47B47 Commutators, derivations, elementary operators, etc.
47B48 Operators on Banach algebras
47B49 Transformers (= operators on spaces of operators)
47B50 Operators on spaces with an indefinite metric [See also 46C50]
47B60 Operators on ordered spaces
47B65 Positive operators and order-bounded operators
47B80 Random operators [See also 60H25]
47B99 None of the above, but in this section
47Cxx Individual linear operators as elements of algebraic systems
47C05 Operators in algebras
47C10 Operators in *-algebras
47C15 Operators in C^*- or von Neumann algebras
47C99 None of the above, but in this section
47Dxx Groups and semigroups of linear operators, their generalizations and applications
47D03 Groups and semigroups of linear operators {For nonlinear operators, see 47H20; see also 20M20}
47D06 One-parameter semigroups and linear evolution equations [See also 34G10, 34K30]
47D07 Markov semigroups and applications to diffusion processes {For Markov processes, see 60Jxx}
47D08 Schrödinger and Feynman-Kac semigroups
47D09 Operator sine and cosine functions and higher-order Cauchy problems [See also 34G10]
47D60 C-semigroups
47D62 Integrated semigroups
47D99 None of the above, but in this section
47E05 Ordinary differential operators [See also 34Bxx, 34Lxx]
47F05 Partial differential operators [See also 35Pxx, 58Jxx]
47Gxx Integral, integro-differential, and pseudodifferential operators [See also 58Jxx]
47G10 Integral operators [See also 45P05]
47G20 Integro-differential operators [See also 34K30, 35R10, 45J05, 45K05]
47G30 Pseudodifferential operators [See also 35Sxx, 58Jxx]
47G99 None of the above, but in this section
47Hxx Nonlinear operators and their properties {For global and geometric aspects, see 58–XX, especially 58Cxx}
47H04 Set-valued operators [See also 28B20, 54C60, 58C06]
47H05 Monotone operators (with respect to duality)
47H06 Accretive operators, dissipative operators, etc.
47H07 Monotone and positive operators on ordered Banach spaces or other ordered topological vector spaces
47H09 Nonexpansive mappings, and their generalizations (ultimately compact mappings, measures of noncompactness and condensing mappings, A-proper mappings, K-set contractions, etc.)
47H10 Fixed-point theorems [See also 54H25, 55M20, 58C30]
47H11 Degree theory [See also 55M25, 58C30]
47H14 Perturbations of nonlinear operators
47H20 Semigroups of nonlinear operators
47H30 Particular nonlinear operators (superposition, Hammerstein, Nemytskiĭ, Uryson, etc.) [See also 45Gxx, 45P05]
47H40 Random operators [See also 60H25]
47H50 Potential operators
47H60 Multilinear and polynomial operators [See also 46G25]
47H99 None of the above, but in this section
47Jxx Equations and inequalities involving nonlinear operators [See also 46Txx] {For global and geometric aspects, see 58–XX}
47J05 Equations involving nonlinear operators (general)
47J06 Nonlinear ill-posed problems
47J07 Abstract inverse mapping and implicit function theorems [See also 46T20 and 58C15]
47J10 Nonlinear eigenvalue problems
47J15 Abstract bifurcation theory [See also 58E07, 58E09]
47J20 Variational and other types of inequalities involving nonlinear operators (general)
47J25 Methods for solving nonlinear operator equations (general)
47J30 Variational methods [See also 58Exx]
47J35 Nonlinear evolution equations [See also 34G20, 35K90, 35L90, 35Qxx, 35R20, 37Kxx, 37Lxx, 58D25]
47J40 Equations with hysteresis operators
47J99 None of the above, but in this section
47Lxx Linear spaces and algebras of operators [See also 46Lxx]
47L05 Linear spaces of operators [See also 46A32 and 46B28]
47L07 Convex sets and cones of operators [See also 46A55]
47L10 Algebras of operators on Banach spaces and other topological linear spaces
47L15 Operator algebras with symbol structure
47L20 Operator ideals
47L25 Operator spaces (= matricially normed spaces) [See also 46L07]
47L30 Abstract operator algebras on Hilbert spaces
47L35 Nest algebras, CSL algebras
47L40 Limit algebras, subalgebras of C^*-algebras
47L45 Dual algebras; weakly closed singly generated operator algebras
47L50 Dual spaces of operator algebras
47L55 Representations of (nonselfadjoint) operator algebras
47L60 Algebras of unbounded operators; partial algebras of operators
47L65 Crossed product algebras (analytic crossed products)
47L70 Nonassociative nonselfadjoint operator algebras
47L75 Other nonselfadjoint operator algebras
47L80 Algebras of specific types of operators (Toeplitz, integral, pseudodifferential, etc.)
47L90 Applications of operator algebras to physics
47L99 None of the above, but in this section
47Nxx Miscellaneous applications of operator theory [See also 46Nxx]
47N10 Applications in optimization, convex analysis, mathematical programming, economics
47N20 Applications to differential and integral equations
47N30 Applications in probability theory and statistics
47N40 Applications in numerical analysis [See also 65Jxx]
47N50 Applications in quantum physics
47N55 Applications in statistical physics
47N60 Applications in biology and other sciences
47N70 Applications in systems theory, circuits, etc.
47N99 None of the above, but in this section
47Sxx Other (nonclassical) types of operator theory [See also 46Sxx]
47S10 Operator theory over fields other than **R**, **C** or the quaternions; non-Archimedean operator theory
47S20 Nonstandard operator theory [See also 03H05]
47S30 Constructive operator theory [See also 03F60]
47S40 Fuzzy operator theory [See also 03E72]
47S50 Operator theory in probabilistic metric linear spaces
47S99 None of the above, but in this section

49–XX CALCULUS OF VARIATIONS AND OPTIMAL CONTROL; OPTIMIZATION [See also 34H05, 34K35, 65Kxx, 90Cxx, 93–XX]
49–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
49–01 Instructional exposition (textbooks, tutorial papers, etc.)
49–02 Research exposition (monographs, survey articles)
49–03 Historical (must also be assigned at least one classification number from Section 01)
49–04 Explicit machine computation and programs (not the theory of computation or programming)
49–06 Proceedings, conferences, collections, etc.
49Jxx Existence theories
49J05 Free problems in one independent variable
49J10 Free problems in two or more independent variables
49J15 Optimal control problems involving ordinary differential equations
49J20 Optimal control problems involving partial differential equations
49J22 Optimal control problems involving integral equations

49J24 Optimal control problems involving differential inclusions [See also 34A60]
49J25 Optimal control problems involving equations with retarded arguments [See also 34K35]
49J27 Problems in abstract spaces [See also 90C48, 93C25]
49J30 Optimal solutions belonging to restricted classes (Lipschitz controls, bang-bang controls, etc.)
49J35 Minimax problems
49J40 Variational methods including variational inequalities [See also 47J20]
49J45 Methods involving semicontinuity and convergence; relaxation
49J50 Fréchet and Gateaux differentiability [See also 46G05, 58C20]
49J52 Nonsmooth analysis [See also 46G05, 58C50]
49J53 Set-valued and variational analysis [See also 28B20, 47H04, 54C60, 58C06]
49J55 Problems involving randomness [See also 93E20]
49J99 None of the above, but in this section
49Kxx Necessary conditions and sufficient conditions for optimality
49K05 Free problems in one independent variable
49K10 Free problems in two or more independent variables
49K15 Problems involving ordinary differential equations
49K20 Problems involving partial differential equations
49K22 Problems involving integral equations
49K24 Problems involving differential inclusions [See also 34A60]
49K25 Problems involving equations with retarded arguments [See also 34K35]
49K27 Problems in abstract spaces [See also 90C48, 93C25]
49K30 Optimal solutions belonging to restricted classes
49K35 Minimax problems
49K40 Sensitivity, stability, well-posedness [See also 90C31]
49K45 Problems involving randomness [See also 93E20]
49K99 None of the above, but in this section
49Lxx Hamilton-Jacobi theories, including dynamic programming
49L20 Dynamic programming method
49L25 Viscosity solutions
49L99 None of the above, but in this section
49Mxx Methods of successive approximations [See also 90Cxx, 65Kxx]
49M05 Methods based on necessary conditions
49M15 Methods of Newton-Raphson, Galerkin and Ritz types
49M20 Methods of relaxation type
49M25 Discrete approximations
49M27 Decomposition methods
49M29 Methods involving duality
49M30 Other methods, not based on necessary conditions (penalty function, etc.)
49M37 Methods of nonlinear programming type [See also 90C30, 65Kxx]
49M99 None of the above, but in this section
49Nxx Miscellaneous topics
49N05 Linear optimal control problems [See also 93C05]
49N10 Linear-quadratic problems
49N15 Duality theory
49N20 Periodic optimization
49N25 Impulsive optimal control problems
49N30 Problems with incomplete information [See also 93C41]
49N35 Optimal feedback synthesis [See also 93B52]
49N45 Inverse problems
49N60 Regularity of solutions
49N70 Differential games
49N75 Pursuit and evasion games
49N90 Applications of optimal control and differential games [See also 90C90, 93C95]
49N99 None of the above, but in this section
49Qxx Manifolds [See also 58Exx]
49Q05 Minimal surfaces [See also 53A10, 58E12]
49Q10 Optimization of shapes other than minimal surfaces [See also 90C90]
49Q12 Sensitivity analysis
49Q15 Geometric measure and integration theory, integral and normal currents [See also 28A75, 32C30, 58A25, 58C35]
49Q20 Variational problems in a geometric measure-theoretic setting
49Q99 None of the above, but in this section
49R50 Variational methods for eigenvalues of operators [See also 47A75]
49S05 Variational principles of physics

51–XX GEOMETRY {For algebraic geometry, see 14–XX}
51–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
51–01 Instructional exposition (textbooks, tutorial papers, etc.)
51–02 Research exposition (monographs, survey articles)
51–03 Historical (must also be assigned at least one classification number from Section 01)
51–04 Explicit machine computation and programs (not the theory of computation or programming)
51–06 Proceedings, conferences, collections, etc.

51Axx Linear incidence geometry
51A05 General theory and projective geometries
51A10 Homomorphism, automorphism and dualities
51A15 Structures with parallelism
51A20 Configuration theorems
51A25 Algebraization [See also 12Kxx, 20N05]
51A30 Desarguesian and Pappian geometries
51A35 Non-Desarguesian affine and projective planes
51A40 Translation planes and spreads
51A45 Incidence structures imbeddable into projective geometries
51A50 Polar geometry, symplectic spaces, orthogonal spaces
51A99 None of the above, but in this section
51Bxx Nonlinear incidence geometry
51B05 General theory
51B10 Möbius geometries
51B15 Laguerre geometries
51B20 Minkowski geometries
51B25 Lie geometries
51B99 None of the above, but in this section
51C05 Ring geometry (Hjelmslev, Barbilian, etc.)
51Dxx Geometric closure systems
51D05 Abstract (Maeda) geometries
51D10 Abstract geometries with exchange axiom
51D15 Abstract geometries with parallelism
51D20 Combinatorial geometries [See also 05B25, 05B35]
51D25 Lattices of subspaces [See also 05B35]
51D30 Continuous geometries and related topics [See also 06Cxx]
51D99 None of the above, but in this section
51Exx Finite geometry and special incidence structures
51E05 General block designs [See also 05B05]
51E10 Steiner systems
51E12 Generalized quadrangles, generalized polygons
51E14 Finite partial geometries (general), nets, partial spreads
51E15 Affine and projective planes
51E20 Combinatorial structures in finite projective spaces [See also 05Bxx]
51E21 Blocking sets, ovals, k-arcs
51E22 Linear codes and caps in Galois spaces [See also 94B05]
51E23 Spreads and packing problems
51E24 Buildings and the geometry of diagrams
51E25 Other finite nonlinear geometries
51E26 Other finite linear geometries
51E30 Other finite incidence structures [See also 05B30]
51E99 None of the above, but in this section
51Fxx Metric geometry
51F05 Absolute planes
51F10 Absolute spaces
51F15 Reflection groups, reflection geometries [See also 20H10, 20H15; for Coxeter groups, see 20F55]
51F20 Congruence and orthogonality [See also 20H05]
51F25 Orthogonal and unitary groups [See also 20H05]
51F99 None of the above, but in this section
51G05 Ordered geometries (ordered incidence structures, etc.)
51Hxx Topological geometry
51H05 General theory
51H10 Topological linear incidence structures
51H15 Topological nonlinear incidence structures
51H20 Topological geometries on manifolds [See also 57–XX]
51H25 Geometries with differentiable structure [See also 53Cxx, 53C70]
51H30 Geometries with algebraic manifold structure [See also 14–XX]
51H99 None of the above, but in this section
51Jxx Incidence groups
51J05 General theory
51J10 Projective incidence groups
51J15 Kinematic spaces
51J20 Representation by near-fields and near-algebras [See also 12K05, 16Y30]
51J99 None of the above, but in this section
51Kxx Distance geometry
51K05 General theory
51K10 Synthetic differential geometry
51K99 None of the above, but in this section
51Lxx Geometric order structures [See also 53C75]
51L05 Geometry of orders of nondifferentiable curves
51L10 Directly differentiable curves
51L15 n-vertex theorems via direct methods
51L20 Geometry of orders of surfaces
51L99 None of the above, but in this section
51Mxx Real and complex geometry
51M04 Elementary problems in Euclidean geometries
51M05 Euclidean geometries (general) and generalizations
51M09 Elementary problems in hyperbolic and elliptic geometries
51M10 Hyperbolic and elliptic geometries (general) and generalizations

51M15 Geometric constructions
51M16 Inequalities and extremum problems {For convex problems, see 52A40}
51M20 Polyhedra and polytopes; regular figures, division of spaces [See also 51F15]
51M25 Length, area and volume [See also 26B15]
51M30 Line geometries and their generalizations [See also 53A25]
51M35 Synthetic treatment of fundamental manifolds in projective geometries (Grassmannians, Veronesians and their generalizations) [See also 14M15]
51M99 None of the above, but in this section
51Nxx Analytic and descriptive geometry
51N05 Descriptive geometry [See also 65D17, 68U07]
51N10 Affine analytic geometry
51N15 Projective analytic geometry
51N20 Euclidean analytic geometry
51N25 Analytic geometry with other transformation groups
51N30 Geometry of classical groups [See also 20Gxx, 14L35]
51N35 Questions of classical algebraic geometry [See also 14Nxx]
51N99 None of the above, but in this section
51P05 Geometry and physics (should also be assigned at least one other classification number from Sections 70–86)

52–XX CONVEX AND DISCRETE GEOMETRY
52 00 General reference works (handbooks, dictionaries, bibliographies, etc.)
52 01 Instructional exposition (textbooks, tutorial papers, etc.)
52 02 Research exposition (monographs, survey articles)
52–03 Historical (must also be assigned at least one classification number from Section 01)
52–04 Explicit machine computation and programs (not the theory of computation or programming)
52 06 Proceedings, conferences, collections, etc.
52Axx General convexity
52A01 Axiomatic and generalized convexity
52A05 Convex sets without dimension restrictions
52A07 Convex sets in topological vector spaces [See also 46A55]
52A10 Convex sets in 2 dimensions (including convex curves) [See also 53A04]
52A15 Convex sets in 3 dimensions (including convex surfaces) [See also 53A05, 53C45]
52A20 Convex sets in n dimensions (including convex hypersurfaces) [See also 53A07, 53C45]
52A21 Finite-dimensional Banach spaces (including special norms, zonoids, etc.) [See also 46Bxx]
52A22 Random convex sets and integral geometry [See also 53C65, 60D05]
52A27 Approximation by convex sets
52A30 Variants of convex sets (star-shaped, (m, n)-convex, etc.)
52A35 Helly-type theorems and geometric transversal theory
52A37 Other problems of combinatorial convexity
52A38 Length, area, volume [See also 26B15, 28A75, 49Q20]
52A39 Mixed volumes and related topics
52A40 Inequalities and extremum problems
52A41 Convex functions and convex programs [See also 26B25, 90C25]
52A55 Spherical and hyperbolic convexity
52A99 None of the above, but in this section
52Bxx Polytopes and polyhedra
52B05 Combinatorial properties (number of faces, shortest paths, etc.) [See also 05Cxx]
52B10 Three-dimensional polytopes
52B11 n-dimensional polytopes
52B12 Special polytopes (linear programming, centrally symmetric, etc.)
52B15 Symmetry properties of polytopes
52B20 Lattice polytopes (including relations with commutative algebra and algebraic geometry) [See also 06A11, 13F20, 13Hxx]
52B22 Shellability
52B35 Gale and other diagrams
52B40 Matroids (realizations in the context of convex polytopes, convexity in combinatorial structures, etc.) [See also 05B35, 52Cxx]
52B45 Dissections and valuations (Hilbert's third problem, etc.)
52B55 Computational aspects related to convexity {For computational geometry and algorithms, see 68Q25, 68U05; for numerical algorithms, see 65Yxx} [See also 68Uxx]
52B60 Isoperimetric problems for polytopes
52B70 Polyhedral manifolds
52B99 None of the above, but in this section
52Cxx Discrete geometry
52C05 Lattices and convex bodies in 2 dimensions [See also 11H06, 11H31, 11P21]
52C07 Lattices and convex bodies in n dimensions [See also 11H06, 11H31, 11P21]
52C10 Erdős problems and related topics of discrete geometry [See also 11Hxx]
52C15 Packing and covering in 2 dimensions [See also 05B40, 11H31]
52C17 Packing and covering in n dimensions [See also 05B40, 11H31]
52C20 Tilings in 2 dimensions [See also 05B45, 51M20]
52C22 Tilings in n dimensions [See also 05B45, 51M20]
52C23 Quasicrystals, aperiodic tilings
52C25 Rigidity and flexibility of structures [See also 70B15]
52C26 Circle packings and discrete conformal geometry
52C30 Planar arrangements of lines and pseudolines
52C35 Arrangements of points, flats, hyperplanes [See also 32S22]
52C40 Oriented matroids
52C45 Combinatorial complexity of geometric structures [See also 68U05]
52C99 None of the above, but in this section

53–XX DIFFERENTIAL GEOMETRY {For differential topology, see 57Rxx. For foundational questions of differentiable manifolds, see 58Axx}
53–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
53–01 Instructional exposition (textbooks, tutorial papers, etc.)
53–02 Research exposition (monographs, survey articles)
53–03 Historical (must also be assigned at least one classification number from Section 01)
53–04 Explicit machine computation and programs (not the theory of computation or programming)
53–06 Proceedings, conferences, collections, etc.
53Axx Classical differential geometry
53A04 Curves in Euclidean space
53A05 Surfaces in Euclidean space
53A07 Higher-dimensional and -codimensional surfaces in Euclidean n-space
53A10 Minimal surfaces, surfaces with prescribed mean curvature [See also 49Q05, 49Q10, 53C42]
53A15 Affine differential geometry
53A17 Kinematics
53A20 Projective differential geometry
53A25 Differential line geometry
53A30 Conformal differential geometry
53A35 Non-Euclidean differential geometry
53A40 Other special differential geometries
53A45 Vector and tensor analysis
53A55 Differential invariants (local theory), geometric objects
53A60 Geometry of webs [See also 14C21, 20N05]
53A99 None of the above, but in this section
53Bxx Local differential geometry
53B05 Linear and affine connections
53B10 Projective connections
53B15 Other connections
53B20 Local Riemannian geometry
53B21 Methods of Riemannian geometry
53B25 Local submanifolds [See also 53C40]
53B30 Lorentz metrics, indefinite metrics
53B35 Hermitian and Kählerian structures [See also 32Cxx]
53B40 Finsler spaces and generalizations (areal metrics)
53B50 Applications to physics
53B99 None of the above, but in this section
53Cxx Global differential geometry [See also 51H25, 58–XX; for related bundle theory, see 55Rxx, 57Rxx]
53C05 Connections, general theory
53C07 Special connections and metrics on vector bundles (Hermite-Einstein-Yang-Mills) [See also 32Q20]
53C10 G-structures
53C12 Foliations (differential geometric aspects) [See also 57R30, 57R32]
53C15 General geometric structures on manifolds (almost complex, almost product structures, etc.)
53C17 Sub-Riemannian geometry
53C20 Global Riemannian geometry, including pinching [See also 31C12, 58B20]
53C21 Methods of Riemannian geometry, including PDE methods; curvature restrictions [See also 58J60]
53C22 Geodesics [See also 58E10]
53C23 Global topological methods (à la Gromov)
53C24 Rigidity results
53C25 Special Riemannian manifolds (Einstein, Sasakian, etc.)
53C26 Hyper-Kähler and quaternionic Kähler geometry, "special" geometry
53C27 Spin and Spin^c geometry
53C28 Twistor methods [See also 32L25]
53C29 Issues of holonomy
53C30 Homogeneous manifolds [See also 14M15, 14M17, 32M10, 57T15]
53C35 Symmetric spaces [See also 32M15, 57T15]
53C38 Calibrations and calibrated geometries
53C40 Global submanifolds [See also 53B25]
53C42 Immersions (minimal, prescribed curvature, tight, etc.) [See also 49Q05, 49Q10, 53A10, 57R40, 57R42]
53C43 Differential geometric aspects of harmonic maps [See also 58E20]
53C44 Geometric evolution equations (mean curvature flow)

53C45 Global surface theory (convex surfaces à la A. D. Aleksandrov)
53C50 Lorentz manifolds, manifolds with indefinite metrics
53C55 Hermitian and Kählerian manifolds [See also 32Cxx]
53C56 Other complex differential geometry [See also 32Cxx]
53C60 Finsler spaces and generalizations (areal metrics) [See also 58B20]
53C65 Integral geometry [See also 52A22, 60D05]; differential forms, currents, etc. [See mainly 58Axx]
53C70 Direct methods (G-spaces of Busemann, etc.)
53C75 Geometric orders, order geometry [See also 51Lxx]
53C80 Applications to physics
53C99 None of the above, but in this section

53Dxx Symplectic geometry, contact geometry [See also 37Jxx, 70Gxx, 70Hxx]
53D05 Symplectic manifolds, general
53D10 Contact manifolds, general
53D12 Lagrangian submanifolds; Maslov index
53D15 Almost contact and almost symplectic manifolds
53D17 Poisson manifolds
53D20 Momentum maps; symplectic reduction
53D22 Canonical transformations
53D25 Geodesic flows
53D30 Symplectic structures of moduli spaces
53D35 Global theory of symplectic and contact manifolds [See also 57Rxx]
53D40 Floer homology and cohomology, symplectic aspects
53D45 Gromov-Witten invariants, quantum cohomology, Frobenius manifolds [See also 14N35]
53D50 Geometric quantization
53D55 Deformation quantization, star products
53D99 None of the above, but in this section

53Z05 Applications to physics

54–XX GENERAL TOPOLOGY {For the topology of manifolds of all dimensions, see 57Nxx}

54–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
54–01 Instructional exposition (textbooks, tutorial papers, etc.)
54 02 Research exposition (monographs, survey articles)
54–03 Historical (must also be assigned at least one classification number from Section 01)
54 04 Explicit machine computation and programs (not the theory of computation or programming)
54–06 Proceedings, conferences, collections, etc.

54Axx Generalities
54A05 Topological spaces and generalizations (closure spaces, etc.)
54A10 Several topologies on one set (change of topology, comparison of topologies, lattices of topologies)
54A15 Syntopogeneous structures
54A20 Convergence in general topology (sequences, filters, limits, convergence spaces, etc.)
54A25 Cardinality properties (cardinal functions and inequalities, discrete subsets) [See also 03Exx] {For ultrafilters, see 54D80}
54A35 Consistency and independence results [See also 03E35]
54A40 Fuzzy topology [See also 03E72]
54A99 None of the above, but in this section

54Bxx Basic constructions
54B05 Subspaces
54B10 Product spaces
54B15 Quotient spaces, decompositions
54B17 Adjunction spaces and similar constructions
54B20 Hyperspaces
54B30 Categorical methods [See also 18B30]
54B35 Spectra
54B40 Presheaves and sheaves [See also 18F20]
54B99 None of the above, but in this section

54Cxx Maps and general types of spaces defined by maps
54C05 Continuous maps
54C08 Weak and generalized continuity
54C10 Special maps on topological spaces (open, closed, perfect, etc.)
54C15 Retraction
54C20 Extension of maps
54C25 Embedding
54C30 Real-valued functions [See also 26–XX]
54C35 Function spaces [See also 46Exx, 58D15]
54C40 Algebraic properties of function spaces [See also 46J10]
54C45 C- and C^*-embedding
54C50 Special sets defined by functions [See also 26A21]
54C55 Absolute neighborhood extensor, absolute extensor, absolute neighborhood retract (ANR), absolute retract spaces (general properties) [See also 55M15]
54C56 Shape theory [See also 55P55, 57N25]
54C60 Set-valued maps [See also 26E25, 28B20, 47H04, 58C06]
54C65 Selections [See also 28B20]
54C70 Entropy
54C99 None of the above, but in this section

54Dxx Fairly general properties
54D05 Connected and locally connected spaces (general aspects)
54D10 Lower separation axioms (T_0–T_3, etc.)
54D15 Higher separation axioms (completely regular, normal, perfectly or collectionwise normal, etc.)
54D20 Noncompact covering properties (paracompact, Lindelöf, etc.)
54D25 "P-minimal" and "P-closed" spaces
54D30 Compactness
54D35 Extensions of spaces (compactifications, supercompactifications, completions, etc.)
54D40 Remainders
54D45 Local compactness, σ-compactness
54D50 k-spaces
54D55 Sequential spaces
54D60 Realcompactness and realcompactification
54D65 Separability
54D70 Base properties
54D80 Special constructions of spaces (spaces of ultrafilters, etc.)
54D99 None of the above, but in this section

54Exx Spaces with richer structures
54E05 Proximity structures and generalizations
54E15 Uniform structures and generalizations
54E17 Nearness spaces
54E18 p-spaces, M-spaces, σ-spaces, etc.
54E20 Stratifiable spaces, cosmic spaces, etc.
54E25 Semimetric spaces
54E30 Moore spaces
54E35 Metric spaces, metrizability
54E40 Special maps on metric spaces
54E45 Compact (locally compact) metric spaces
54E50 Complete metric spaces
54E52 Baire category, Baire spaces
54E55 Bitopologies
54E70 Probabilistic metric spaces
54E99 None of the above, but in this section

54Fxx Special properties
54F05 Linearly ordered topological spaces, generalized ordered spaces, and partially ordered spaces [See also 06B30, 06F30]
54F15 Continua and generalizations
54F35 Higher-dimensional local connectedness [See also 55Mxx, 55Nxx]
54F45 Dimension theory [See also 55M10]
54F50 Spaces of dimension ≤ 1; curves, dendrites [See also 26A03]
54F55 Unicoherence, multicoherence
54F65 Topological characterizations of particular spaces
54F99 None of the above, but in this section

54Gxx Peculiar spaces
54G05 Extremally disconnected spaces, F-spaces, etc.
54G10 P-spaces
54G12 Scattered spaces
54G15 Pathological spaces
54G20 Counterexamples
54G99 None of the above, but in this section

54Hxx Connections with other structures, applications
54H05 Descriptive set theory (topological aspects of Borel, analytic, projective, etc. sets) [See also 03E15, 26A21, 28A05]
54H10 Topological representations of algebraic systems [See also 22–XX]
54H11 Topological groups [See also 22A05]
54H12 Topological lattices, etc. [See also 06B30, 06F30]
54H13 Topological fields, rings, etc. [See also 12Jxx] {For algebraic aspects, see 13Jxx, 16W80}
54H15 Transformation groups and semigroups [See also 20M20, 22–XX, 57Sxx]
54H20 Topological dynamics [See also 28Dxx, 37Bxx]
54H25 Fixed-point and coincidence theorems [See also 47H10, 55M20]
54H99 None of the above, but in this section

54J05 Nonstandard topology [See also 03H05]

55–XX ALGEBRAIC TOPOLOGY

55–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
55–01 Instructional exposition (textbooks, tutorial papers, etc.)
55–02 Research exposition (monographs, survey articles)
55–03 Historical (must also be assigned at least one classification number from Section 01)
55–04 Explicit machine computation and programs (not the theory of computation or programming)
55–06 Proceedings, conferences, collections, etc.

55Mxx Classical topics {For the topology of Euclidean spaces and manifolds, see 57Nxx}
55M05 Duality
55M10 Dimension theory [See also 54F45]
55M15 Absolute neighborhood retracts [See also 54C55]
55M20 Fixed points and coincidences [See also 54H25]

55M25 Degree, winding number
55M30 Ljusternik-Schnirelman (Lyusternik-Shnirel′man) category of a space
55M35 Finite groups of transformations (including Smith theory) [See also 57S17]
55M99 None of the above, but in this section
55Nxx Homology and cohomology theories [See also 57Txx]
55N05 Čech types
55N07 Steenrod-Sitnikov homologies
55N10 Singular theory
55N15 K-theory [See also 19Lxx] {For algebraic K-theory, see 18F25, 19–XX}
55N20 Generalized (extraordinary) homology and cohomology theories
55N22 Bordism and cobordism theories, formal group laws [See also 14L05, 19L41, 57R75, 57R77, 57R85, 57R90]
55N25 Homology with local coefficients, equivariant cohomology
55N30 Sheaf cohomology [See also 18F20, 32C35, 32L10]
55N33 Intersection homology and cohomology
55N34 Elliptic cohomology
55N35 Other homology theories
55N40 Axioms for homology theory and uniqueness theorems
55N45 Products and intersections
55N91 Equivariant homology and cohomology [See also 19L47]
55N99 None of the above, but in this section
55Pxx Homotopy theory {For simple homotopy type, see 57Q10}
55P05 Homotopy extension properties, cofibrations
55P10 Homotopy equivalences
55P15 Classification of homotopy type
55P20 Eilenberg-Mac Lane spaces
55P25 Spanier-Whitehead duality
55P30 Eckmann-Hilton duality
55P35 Loop spaces
55P40 Suspensions
55P42 Stable homotopy theory, spectra
55P43 Spectra with additional structure (E_∞, A_∞, ring spectra, etc.)
55P45 H-spaces and duals
55P47 Infinite loop spaces
55P48 Loop space machines, operads [See also 18D50]
55P55 Shape theory [See also 54C56, 55Q07]
55P57 Proper homotopy theory
55P60 Localization and completion
55P62 Rational homotopy theory
55P65 Homotopy functors
55P91 Equivariant homotopy theory [See also 19L47]
55P92 Relations between equivariant and nonequivariant homotopy theory
55P99 None of the above, but in this section
55Qxx Homotopy groups
55Q05 Homotopy groups, general; sets of homotopy classes
55Q07 Shape groups
55Q10 Stable homotopy groups
55Q15 Whitehead products and generalizations
55Q20 Homotopy groups of wedges, joins, and simple spaces
55Q25 Hopf invariants
55Q35 Operations in homotopy groups
55Q40 Homotopy groups of spheres
55Q45 Stable homotopy of spheres
55Q50 J-morphism [See also 19L20]
55Q51 v_n-periodicity
55Q52 Homotopy groups of special spaces
55Q55 Cohomotopy groups
55Q70 Homotopy groups of special types [See also 55N05, 55N07]
55Q91 Equivariant homotopy groups [See also 19L47]
55Q99 None of the above, but in this section
55Rxx Fiber spaces and bundles [See also 18F15, 32Lxx, 46M20, 57R20, 57R22, 57R25]
55R05 Fiber spaces
55R10 Fiber bundles
55R12 Transfer
55R15 Classification
55R20 Spectral sequences and homology of fiber spaces [See also 55Txx]
55R25 Sphere bundles and vector bundles
55R35 Classifying spaces of groups and H-spaces
55R37 Maps between classifying spaces
55R40 Homology of classifying spaces, characteristic classes [See also 57Txx, 57R20]
55R45 Homology and homotopy of BO and BU; Bott periodicity
55R50 Stable classes of vector space bundles, K-theory [See also 19Lxx] {For algebraic K-theory, see 18F25, 19–XX}
55R55 Fiberings with singularities
55R60 Microbundles and block bundles [See also 57N55, 57Q50]
55R65 Generalizations of fiber spaces and bundles
55R70 Fibrewise topology
55R80 Discriminantal varieties, configuration spaces
55R91 Equivariant fiber spaces and bundles [See also 19L47]
55R99 None of the above, but in this section
55Sxx Operations and obstructions
55S05 Primary cohomology operations
55S10 Steenrod algebra
55S12 Dyer-Lashof operations
55S15 Symmetric products, cyclic products
55S20 Secondary and higher cohomology operations
55S25 K-theory operations and generalized cohomology operations [See also 19D55, 19Lxx]
55S30 Massey products
55S35 Obstruction theory
55S36 Extension and compression of mappings
55S37 Classification of mappings
55S40 Sectioning fiber spaces and bundles
55S45 Postnikov systems, k-invariants
55S91 Equivariant operations and obstructions [See also 19L47]
55S99 None of the above, but in this section
55Txx Spectral sequences [See also 18G40, 55R20]
55T05 General
55T10 Serre spectral sequences
55T15 Adams spectral sequences
55T20 Eilenberg-Moore spectral sequences [See also 57T35]
55T25 Generalized cohomology
55T99 None of the above, but in this section
55Uxx Applied homological algebra and category theory [See also 18Gxx]
55U05 Abstract complexes
55U10 Simplicial sets and complexes
55U15 Chain complexes
55U20 Universal coefficient theorems, Bockstein operator
55U25 Homology of a product, Künneth formula
55U30 Duality
55U35 Abstract and axiomatic homotopy theory
55U40 Topological categories, foundations of homotopy theory
55U99 None of the above, but in this section

57–XX MANIFOLDS AND CELL COMPLEXES {For complex manifolds, see 32Qxx}
57–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
57–01 Instructional exposition (textbooks, tutorial papers, etc.)
57–02 Research exposition (monographs, survey articles)
57–03 Historical (must also be assigned at least one classification number from Section 01)
57–04 Explicit machine computation and programs (not the theory of computation or programming)
57–06 Proceedings, conferences, collections, etc.
57Mxx Low-dimensional topology
57M05 Fundamental group, presentations, free differential calculus
57M07 Topological methods in group theory
57M10 Covering spaces
57M12 Special coverings, e.g. branched
57M15 Relations with graph theory [See also 05Cxx]
57M20 Two-dimensional complexes
57M25 Knots and links in S^3 {For higher dimensions, see 57Q45}
57M27 Invariants of knots and 3-manifolds
57M30 Wild knots and surfaces, etc., wild embeddings
57M35 Dehn's lemma, sphere theorem, loop theorem, asphericity
57M40 Characterizations of E^3 and S^3 (Poincaré conjecture) [See also 57N12]
57M50 Geometric structures on low-dimensional manifolds
57M60 Group actions in low dimensions
57M99 None of the above, but in this section
57Nxx Topological manifolds
57N05 Topology of E^2, 2-manifolds
57N10 Topology of general 3-manifolds [See also 57Mxx]
57N12 Topology of E^3 and S^3 [See also 57M40]
57N13 Topology of E^4, 4-manifolds [See also 14Jxx, 32Jxx]
57N15 Topology of E^n, n-manifolds $(4 < n < \infty)$
57N16 Geometric structures on manifolds [See also 57M50]
57N17 Topology of topological vector spaces
57N20 Topology of infinite-dimensional manifolds [See also 58Bxx]
57N25 Shapes [See also 54C56, 55P55, 55Q07]
57N30 Engulfing
57N35 Embeddings and immersions
57N37 Isotopy and pseudo-isotopy
57N40 Neighborhoods of submanifolds
57N45 Flatness and tameness
57N50 $S^{n-1} \subset E^n$, Schoenflies problem
57N55 Microbundles and block bundles [See also 55R60, 57Q50]
57N60 Cellularity
57N65 Algebraic topology of manifolds
57N70 Cobordism and concordance

57N75 General position and transversality
57N80 Stratifications
57N99 None of the above, but in this section
57Pxx Generalized manifolds [See also 18F15]
57P05 Local properties of generalized manifolds
57P10 Poincaré duality spaces
57P99 None of the above, but in this section
57Qxx PL-topology
57Q05 General topology of complexes
57Q10 Simple homotopy type, Whitehead torsion, Reidemeister-Franz torsion, etc. [See also 19B28]
57Q12 Wall finiteness obstruction for CW-complexes
57Q15 Triangulating manifolds
57Q20 Cobordism
57Q25 Comparison of PL-structures: classification, Hauptvermutung
57Q30 Engulfing
57Q35 Embeddings and immersions
57Q37 Isotopy
57Q40 Regular neighborhoods
57Q45 Knots and links (in high dimensions) {For the low-dimensional case, see 57M25}
57Q50 Microbundles and block bundles [See also 55R60, 57N55]
57Q55 Approximations
57Q60 Cobordism and concordance
57Q65 General position and transversality
57Q91 Equivariant PL-topology
57Q99 None of the above, but in this section
57Rxx Differential topology {For foundational questions of differentiable manifolds, see 58Axx; for infinite-dimensional manifolds, see 58Bxx}
57R05 Triangulating
57R10 Smoothing
57R12 Smooth approximations
57R15 Specialized structures on manifolds (spin manifolds, framed manifolds, etc.)
57R17 Symplectic and contact topology
57R19 Algebraic topology on manifolds
57R20 Characteristic classes and numbers
57R22 Topology of vector bundles and fiber bundles [See also 55Rxx]
57R25 Vector fields, frame fields
57R27 Controllability of vector fields on C^∞ and real-analytic manifolds [See also 49Qxx, 37C10, 93B05]
57R30 Foliations; geometric theory
57R32 Classifying spaces for foliations; Gel'fand-Fuks cohomology [See also 58H10]
57R35 Differentiable mappings
57R40 Embeddings
57R42 Immersions
57R45 Singularities of differentiable mappings
57R50 Diffeomorphisms
57R52 Isotopy
57R55 Differentiable structures
57R56 Topological quantum field theories
57R57 Applications of global analysis to structures on manifolds, Donaldson and Seiberg-Witten invariants [See also 58–XX]
57R58 Floer homology
57R60 Homotopy spheres, Poincaré conjecture
57R65 Surgery and handlebodies
57R67 Surgery obstructions, Wall groups [See also 19J25]
57R70 Critical points and critical submanifolds
57R75 O- and SO-cobordism
57R77 Complex cobordism (U- and SU-cobordism) [See also 55N22]
57R80 h- and s-cobordism
57R85 Equivariant cobordism
57R90 Other types of cobordism [See also 55N22]
57R91 Equivariant algebraic topology of manifolds
57R95 Realizing cycles by submanifolds
57R99 None of the above, but in this section
57Sxx Topological transformation groups [See also 20F34, 22–XX, 37–XX, 54H15, 58D05]
57S05 Topological properties of groups of homeomorphisms or diffeomorphisms
57S10 Compact groups of homeomorphisms
57S15 Compact Lie groups of differentiable transformations
57S17 Finite transformation groups
57S20 Noncompact Lie groups of transformations
57S25 Groups acting on specific manifolds
57S30 Discontinuous groups of transformations
57S99 None of the above, but in this section

57Txx Homology and homotopy of topological groups and related structures
57T05 Hopf algebras [See also 16W30]
57T10 Homology and cohomology of Lie groups
57T15 Homology and cohomology of homogeneous spaces of Lie groups
57T20 Homotopy groups of topological groups and homogeneous spaces
57T25 Homology and cohomology of H-spaces
57T30 Bar and cobar constructions [See also 18G55, 55Uxx]
57T35 Applications of Eilenberg-Moore spectral sequences [See also 55R20, 55T20]
57T99 None of the above, but in this section

58–XX GLOBAL ANALYSIS, ANALYSIS ON MANIFOLDS [See also 32Cxx, 32Fxx, 32Wxx, 46–XX, 47Hxx, 53Cxx]{For geometric integration theory, see 49Q15}
58–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
58–01 Instructional exposition (textbooks, tutorial papers, etc.)
58–02 Research exposition (monographs, survey articles)
58–03 Historical (must also be assigned at least one classification number from Section 01)
58 -04 Explicit machine computation and programs (not the theory of computation or programming)
58–06 Proceedings, conferences, collections, etc.
58Axx General theory of differentiable manifolds [See also 32Cxx]
58A03 Topos-theoretic approach to differentiable manifolds
58A05 Differentiable manifolds, foundations
58A07 Real-analytic and Nash manifolds [See also 14P20, 32C07]
58A10 Differential forms
58A12 de Rham theory [See also 14Fxx]
58A14 Hodge theory [See also 14C30, 14Fxx, 32J25, 32S35]
58A15 Exterior differential systems (Cartan theory)
58A17 Pfaffian systems
58A20 Jets
58A25 Currents [See also 32C30, 53C65]
58A30 Vector distributions (subbundles of the tangent bundles)
58A32 Natural bundles
58A35 Stratified sets [See also 32S60]
58A40 Differential spaces
58A50 Supermanifolds and graded manifolds [See also 14A22, 32C11]
58A99 None of the above, but in this section
58Bxx Infinite-dimensional manifolds
58B05 Homotopy and topological questions
58B10 Differentiability questions
58B12 Questions of holomorphy [See also 32–XX, 46G20]
58B15 Fredholm structures [See also 47A53]
58B20 Riemannian, Finsler and other geometric structures [See also 53C20, 53C60]
58B25 Group structures and generalizations on infinite-dimensional manifolds [See also 22E65, 58D05]
58B32 Geometry of quantum groups
58B34 Noncommutative geometry (à la Connes)
58B99 None of the above, but in this section
58Cxx Calculus on manifolds; nonlinear operators [See also 46Txx, 47Hxx, 47Jxx]
58C05 Real-valued functions
58C06 Set valued and function-space valued mappings [See also 47H04, 54C60]
58C07 Continuity properties of mappings
58C10 Holomorphic maps [See also 32–XX]
58C15 Implicit function theorems; global Newton methods
58C20 Differentiation theory (Gateaux, Fréchet, etc.) [See also 26Exx, 46G05]
58C25 Differentiable maps
58C30 Fixed point theorems on manifolds [See also 47H10]
58C35 Integration on manifolds; measures on manifolds [See also 28Cxx]
58C40 Spectral theory; eigenvalue problems [See also 47J10, 58E07]
58C50 Analysis on supermanifolds or graded manifolds
58C99 None of the above, but in this section
58Dxx Spaces and manifolds of mappings (including nonlinear versions of 46Exx) [See also 46Txx, 53Cxx]
58D05 Groups of diffeomorphisms and homeomorphisms as manifolds [See also 22E65, 57S05]
58D07 Groups and semigroups of nonlinear operators [See also 17B65, 47H20]
58D10 Spaces of imbeddings and immersions
58D15 Manifolds of mappings [See also 46T10, 54C35]
58D17 Manifolds of metrics (esp. Riemannian)
58D19 Group actions and symmetry properties
58D20 Measures (Gaussian, cylindrical, etc.) on manifolds of maps [See also 28Cxx, 46T12]
58D25 Equations in function spaces; evolution equations [See also 34Gxx, 35K90, 35L90, 35R15, 37Lxx, 47Jxx]
58D27 Moduli problems for differential geometric structures

58D29 Moduli problems for topological structures
58D30 Applications (in quantum mechanics (Feynman path integrals), relativity, fluid dynamics, etc.)
58D99 None of the above, but in this section

58Exx Variational problems in infinite-dimensional spaces
58E05 Abstract critical point theory (Morse theory, Ljusternik-Schnirelman (Lyusternik-Shnirel′man) theory, etc.)
58E07 Abstract bifurcation theory
58E09 Group-invariant bifurcation theory
58E10 Applications to the theory of geodesics (problems in one independent variable)
58E11 Critical metrics
58E12 Applications to minimal surfaces (problems in two independent variables) [See also 49Q05]
58E15 Application to extremal problems in several variables; Yang-Mills functionals [See also 81T13], etc.
58E17 Pareto optimality, etc., applications to economics [See also 90C29]
58E20 Harmonic maps [See also 53C43], etc.
58E25 Applications to control theory [See also 49–XX, 93–XX]
58E30 Variational principles
58E35 Variational inequalities (global problems)
58E40 Group actions
58E50 Applications
58E99 None of the above, but in this section

58Hxx Pseudogroups, differentiable groupoids and general structures on manifolds
58H05 Pseudogroups and differentiable groupoids [See also 22A22, 22E65]
58H10 Cohomology of classifying spaces for pseudogroup structures (Spencer, Gel′fand-Fuks, etc.) [See also 57R32]
58H15 Deformations of structures [See also 32Gxx, 58J10]
58H99 None of the above, but in this section

58Jxx Partial differential equations on manifolds; differential operators [See also 32Wxx, 35–XX, 53Cxx]
58J05 Elliptic equations on manifolds, general theory [See also 35–XX]
58J10 Differential complexes [See also 35Nxx]; elliptic complexes
58J15 Relations with hyperfunctions
58J20 Index theory and related fixed point theorems [See also 19K56, 46L80]
58J22 Exotic index theories [See also 19K56, 46L05, 46L10, 46L80, 46M20]
58J26 Elliptic genera
58J28 Eta-invariants, Chern-Simons invariants
58J30 Spectral flows
58J32 Boundary value problems on manifolds
58J35 Heat and other parabolic equation methods
58J37 Perturbations; asymptotics
58J40 Pseudodifferential and Fourier integral operators on manifolds [See also 35Sxx]
58J42 Noncommutative global analysis, noncommutative residues
58J45 Hyperbolic equations [See also 35Lxx]
58J47 Propagation of singularities; initial value problems
58J50 Spectral problems; spectral geometry; scattering theory [See also 35Pxx]
58J52 Determinants and determinant bundles, analytic torsion
58J53 Isospectrality
58J55 Bifurcation [See also 35B32]
58J60 Relations with special manifold structures (Riemannian, Finsler, etc.)
58J65 Diffusion processes and stochastic analysis on manifolds [See also 35R60, 60H10, 60J60]
58J70 Invariance and symmetry properties [See also 35A30]
58J72 Correspondences and other transformation methods (e.g. Lie-Bäcklund) [See also 35A22]
58J90 Applications
58J99 None of the above, but in this section

58Kxx Theory of singularities and catastrophe theory [See also 32Sxx, 37–XX]
58K05 Critical points of functions and mappings
58K10 Monodromy
58K15 Topological properties of mappings
58K20 Algebraic and analytic properties of mappings
58K25 Stability
58K30 Global theory
58K35 Catastrophe theory
58K40 Classification; finite determinacy of map germs
58K45 Singularities of vector fields, topological aspects
58K50 Normal forms
58K55 Asymptotic behavior
58K60 Deformation of singularities
58K65 Topological invariants
58K70 Symmetries, equivariance
58K99 None of the above, but in this section

58Z05 Applications to physics

60–XX PROBABILITY THEORY AND STOCHASTIC PROCESSES {For additional applications, see 11Kxx, 62–XX, 90–XX, 91–XX, 92–XX, 93–XX, 94–XX}

60–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
60–01 Instructional exposition (textbooks, tutorial papers, etc.)
60–02 Research exposition (monographs, survey articles)
60–03 Historical (must also be assigned at least one classification number from Section 01)
60–04 Explicit machine computation and programs (not the theory of computation or programming)
60–06 Proceedings, conferences, collections, etc.
60–08 Computational methods (not classified at a more specific level) [See also 65C50]

60Axx Foundations of probability theory
60A05 Axioms; other general questions
60A10 Probabilistic measure theory {For ergodic theory, see 28Dxx and 60Fxx}
60A99 None of the above, but in this section

60Bxx Probability theory on algebraic and topological structures
60B05 Probability measures on topological spaces
60B10 Convergence of probability measures
60B11 Probability theory on linear topological spaces [See also 28C20]
60B12 Limit theorems for vector-valued random variables (infinite-dimensional case)
60B15 Probability measures on groups, Fourier transforms, factorization
60B99 None of the above, but in this section

60C05 Combinatorial probability
60D05 Geometric probability, stochastic geometry, random sets [See also 52A22, 53C65]

60Exx Distribution theory [See also 62Exx, 62Hxx]
60E05 Distributions: general theory
60E07 Infinitely divisible distributions; stable distributions
60E10 Characteristic functions; other transforms
60E15 Inequalities; stochastic orderings
60E99 None of the above, but in this section

60Fxx Limit theorems [See also 28Dxx, 60B12]
60F05 Central limit and other weak theorems
60F10 Large deviations
60F15 Strong theorems
60F17 Functional limit theorems; invariance principles
60F20 Zero-one laws
60F25 L^p-limit theorems
60F99 None of the above, but in this section

60Gxx Stochastic processes
60G05 Foundations of stochastic processes
60G07 General theory of processes
60G09 Exchangeability
60G10 Stationary processes
60G12 General second-order processes
60G15 Gaussian processes
60G17 Sample path properties
60G18 Self-similar processes
60G20 Generalized stochastic processes
60G25 Prediction theory [See also 62M20]
60G30 Continuity and singularity of induced measures
60G35 Applications (signal detection, filtering, etc.) [See also 62M20, 93E10, 93E11, 94Axx]
60G40 Stopping times; optimal stopping problems; gambling theory [See also 62L15, 91A60]
60G42 Martingales with discrete parameter
60G44 Martingales with continuous parameter
60G46 Martingales and classical analysis
60G48 Generalizations of martingales
60G50 Sums of independent random variables; random walks
60G51 Processes with independent increments
60G52 Stable processes
60G55 Point processes
60G57 Random measures
60G60 Random fields
60G70 Extreme value theory; extremal processes
60G99 None of the above, but in this section

60Hxx Stochastic analysis [See also 58J65]
60H05 Stochastic integrals
60H07 Stochastic calculus of variations and the Malliavin calculus
60H10 Stochastic ordinary differential equations [See also 34F05]
60H15 Stochastic partial differential equations [See also 35R60]
60H20 Stochastic integral equations
60H25 Random operators and equations [See also 47B80]
60H30 Applications of stochastic analysis (to PDE, etc.)
60H35 Computational methods for stochastic equations [See also 65C30]
60H40 White noise theory
60H99 None of the above, but in this section

60Jxx Markov processes
60J05 Markov processes with discrete parameter
60J10 Markov chains with discrete parameter
60J20 Applications of discrete Markov processes (social mobility, learning theory, industrial processes, etc.) [See also 90B30, 91D10, 91D35, 91E40]
60J22 Computational methods in Markov chains [See also 65C40]
60J25 Markov processes with continuous parameter
60J27 Markov chains with continuous parameter
60J35 Transition functions, generators and resolvents [See also 47D03, 47D07]
60J40 Right processes
60J45 Probabilistic potential theory [See also 31Cxx, 31D05]
60J50 Boundary theory
60J55 Local time and additive functionals
60J57 Multiplicative functionals
60J60 Diffusion processes [See also 58J65]
60J65 Brownian motion [See also 58J65]
60J70 Applications of diffusion theory (population genetics, absorption problems, etc.) [See also 92Dxx]
60J75 Jump processes
60J80 Branching processes (Galton-Watson, birth-and-death, etc.)
60J85 Applications of branching processes [See also 92Dxx]
60J99 None of the above, but in this section
60Kxx Special processes
60K05 Renewal theory
60K10 Applications (reliability, demand theory, etc.)
60K15 Markov renewal processes, semi-Markov processes
60K20 Applications of Markov renewal processes (reliability, queueing networks, etc.) [See also 90Bxx]
60K25 Queueing theory [See also 68M20, 90B22]
60K30 Applications (congestion, allocation, storage, traffic, etc.) [See also 90Bxx]
60K35 Interacting random processes; statistical mechanics type models; percolation theory [See also 82B43, 82C43]
60K37 Processes in random environments
60K40 Other physical applications of random processes
60K99 None of the above, but in this section

62–XX STATISTICS
62–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
62–01 Instructional exposition (textbooks, tutorial papers, etc.)
62–02 Research exposition (monographs, survey articles)
62–03 Historical (must also be assigned at least one classification number from Section 01)
62–04 Explicit machine computation and programs (not the theory of computation or programming)
62–06 Proceedings, conferences, collections, etc.
62–07 Data analysis
62–09 Graphical methods
62A01 Foundational and philosophical topics
62Bxx Sufficiency and information
62B05 Sufficient statistics and fields
62B10 Information-theoretic topics [See also 94A17]
62B15 Theory of statistical experiments
62B99 None of the above, but in this section
62Cxx Decision theory [See also 90B50, 91B06; for game theory, see 91A35]
62C05 General considerations
62C07 Complete class results
62C10 Bayesian problems; characterization of Bayes procedures
62C12 Empirical decision procedures; empirical Bayes procedures
62C15 Admissibility
62C20 Minimax procedures
62C25 Compound decision problems
62C99 None of the above, but in this section
62D05 Sampling theory, sample surveys
62Exx Distribution theory [See also 60Exx]
62E10 Characterization and structure theory
62E15 Exact distribution theory
62E17 Approximations to distributions (nonasymptotic)
62E20 Asymptotic distribution theory
62E99 None of the above, but in this section
62Fxx Parametric inference
62F03 Hypothesis testing
62F05 Asymptotic properties of tests
62F07 Ranking and selection
62F10 Point estimation
62F12 Asymptotic properties of estimators
62F15 Bayesian inference
62F25 Tolerance and confidence regions
62F30 Inference under constraints
62F35 Robustness and adaptive procedures
62F40 Bootstrap, jackknife and other resampling methods
62F99 None of the above, but in this section
62Gxx Nonparametric inference
62G05 Estimation
62G07 Density estimation
62G08 Nonparametric regression
62G09 Resampling methods
62G10 Hypothesis testing
62G15 Tolerance and confidence regions
62G20 Asymptotic properties
62G30 Order statistics; empirical distribution functions
62G32 Statistics of extreme values; tail inference
62G35 Robustness
62G99 None of the above, but in this section
62Hxx Multivariate analysis [See also 60Exx]
62H05 Characterization and structure theory
62H10 Distribution of statistics
62H11 Directional data; spatial statistics
62H12 Estimation
62H15 Hypothesis testing
62H17 Contingency tables
62H20 Measures of association (correlation, canonical correlation, etc.)
62H25 Factor analysis and principal components; correspondence analysis
62H30 Classification and discrimination; cluster analysis [See also 68T10]
62H35 Image analysis
62H99 None of the above, but in this section
62Jxx Linear inference, regression
62J02 General nonlinear regression
62J05 Linear regression
62J07 Ridge regression; shrinkage estimators
62J10 Analysis of variance and covariance
62J12 Generalized linear models
62J15 Paired and multiple comparisons
62J20 Diagnostics
62J99 None of the above, but in this section
62Kxx Design of experiments [See also 05Bxx]
62K05 Optimal designs
62K10 Block designs
62K15 Factorial designs
62K20 Response surface designs
62K25 Robust parameter designs
62K99 None of the above, but in this section
62Lxx Sequential methods
62L05 Sequential design
62L10 Sequential analysis
62L12 Sequential estimation
62L15 Optimal stopping [See also 60G40, 91A60]
62L20 Stochastic approximation
62L99 None of the above, but in this section
62Mxx Inference from stochastic processes
62M02 Markov processes: hypothesis testing
62M05 Markov processes: estimation
62M07 Non-Markovian processes: hypothesis testing
62M09 Non-Markovian processes: estimation
62M10 Time series, auto-correlation, regression, etc. [See also 91B84]
62M15 Spectral analysis
62M20 Prediction [See also 60G25]; filtering [See also 60G35, 93E10, 93E11]
62M30 Spatial processes
62M40 Random fields; image analysis
62M45 Neural nets and related approaches
62M99 None of the above, but in this section
62Nxx Survival analysis and censored data
62N01 Censored data models
62N02 Estimation
62N03 Testing
62N05 Reliability and life testing [See also 90B25]
62N99 None of the above, but in this section
62Pxx Applications [See also 90–XX, 91–XX, 92–XX]
62P05 Applications to actuarial sciences and financial mathematics
62P10 Applications to biology and medical sciences
62P12 Applications to environmental and related topics
62P15 Applications to psychology
62P20 Applications to economics [See also 91Bxx]
62P25 Applications to social sciences
62P30 Applications in engineering and industry
62P35 Applications to physics
62P99 None of the above, but in this section
62Q05 Statistical tables

65–XX NUMERICAL ANALYSIS
65–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
65–01 Instructional exposition (textbooks, tutorial papers, etc.)
65–02 Research exposition (monographs, survey articles)
65–03 Historical (must also be assigned at least one classification number from Section 01)
65–04 Explicit machine computation and programs (not the theory of computation or programming)
65–05 Experimental papers
65–06 Proceedings, conferences, collections, etc.
65A05 Tables
65Bxx Acceleration of convergence
65B05 Extrapolation to the limit, deferred corrections
65B10 Summation of series
65B15 Euler-Maclaurin formula
65B99 None of the above, but in this section
65Cxx Probabilistic methods, simulation and stochastic differential equations {For theoretical aspects, see 68U20 and 60H35}
65C05 Monte Carlo methods
65C10 Random number generation
65C20 Models, numerical methods [See also 68U20]
65C30 Stochastic differential and integral equations
65C35 Stochastic particle methods [See also 82C80]
65C40 Computational Markov chains
65C50 Other computational problems in probability
65C60 Computational problems in statistics
65C99 None of the above, but in this section
65Dxx Numerical approximation and computational geometry (primarily algorithms) {For theory, see 41–XX and 68Uxx}
65D05 Interpolation
65D07 Splines
65D10 Smoothing, curve fitting
65D15 Algorithms for functional approximation
65D17 Computer aided design (modeling of curves and surfaces) [See also 68U07]
65D18 Computer graphics and computational geometry [See also 51N05, 68U05]
65D20 Computation of special functions, construction of tables [See also 33F05]
65D25 Numerical differentiation
65D30 Numerical integration
65D32 Quadrature and cubature formulas
65D99 None of the above, but in this section
65E05 Numerical methods in complex analysis (potential theory, etc.) {For numerical methods in conformal mapping, see 30C30}
65Fxx Numerical linear algebra
65F05 Direct methods for linear systems and matrix inversion
65F10 Iterative methods for linear systems [See also 65N22]
65F15 Eigenvalues, eigenvectors
65F18 Inverse eigenvalue problems
65F20 Overdetermined systems, pseudoinverses
65F22 Ill-posedness, regularization
65F25 Orthogonalization
65F30 Other matrix algorithms
65F35 Matrix norms, conditioning, scaling [See also 15A12, 15A60]
65F40 Determinants
65F50 Sparse matrices
65F99 None of the above, but in this section
65Gxx Error analysis and interval analysis
65G20 Algorithms with automatic result verification
65G30 Interval and finite arithmetic
65G40 General methods in interval analysis
65G50 Roundoff error
65G99 None of the above, but in this section
65Hxx Nonlinear algebraic or transcendental equations
65H05 Single equations
65H10 Systems of equations
65H17 Eigenvalues, eigenvectors [See also 47Hxx, 47Jxx, 58C40, 58E07, 90C30]
65H20 Global methods, including homotopy approaches [See also 58C30, 90C30]
65H99 None of the above, but in this section
65Jxx Numerical analysis in abstract spaces
65J05 General theory
65J10 Equations with linear operators (do not use 65Fxx)
65J15 Equations with nonlinear operators (do not use 65Hxx)
65J20 Improperly posed problems; regularization
65J22 Inverse problems
65J99 None of the above, but in this section
65Kxx Mathematical programming, optimization and variational techniques
65K05 Mathematical programming algorithms {For theory see 90Cxx}
65K10 Optimization and variational techniques [See also 49Mxx, 93B40]
65K99 None of the above, but in this section
65Lxx Ordinary differential equations
65L05 Initial value problems
65L06 Multistep, Runge-Kutta and extrapolation methods
65L07 Numerical investigation of stability of solutions
65L08 Improperly posed problems
65L09 Inverse problems
65L10 Boundary value problems
65L12 Finite difference methods
65L15 Eigenvalue problems
65L20 Stability and convergence of numerical methods
65L50 Mesh generation and refinement
65L60 Finite elements, Rayleigh-Ritz, Galerkin and collocation methods
65L70 Error bounds
65L80 Methods for differential-algebraic equations
65L99 None of the above, but in this section
65Mxx Partial differential equations, initial value and time-dependent initial-boundary value problems
65M06 Finite difference methods
65M12 Stability and convergence of numerical methods
65M15 Error bounds
65M20 Method of lines
65M25 Method of characteristics
65M30 Improperly posed problems
65M32 Inverse problems
65M50 Mesh generation and refinement
65M55 Multigrid methods; domain decomposition
65M60 Finite elements, Rayleigh-Ritz and Galerkin methods, finite methods
65M70 Spectral, collocation and related methods
65M99 None of the above, but in this section
65Nxx Partial differential equations, boundary value problems
65N06 Finite difference methods
65N12 Stability and convergence of numerical methods
65N15 Error bounds
65N21 Inverse problems
65N22 Solution of discretized equations [See also 65Fxx, 65Hxx]
65N25 Eigenvalue problems
65N30 Finite elements, Rayleigh-Ritz and Galerkin methods, finite methods
65N35 Spectral, collocation and related methods
65N38 Boundary element methods
65N40 Method of lines
65N45 Method of contraction of the boundary
65N50 Mesh generation and refinement
65N55 Multigrid methods; domain decomposition
65N99 None of the above, but in this section
65Pxx Numerical problems in dynamical systems [See also 37Mxx]
65P10 Hamiltonian systems including symplectic integrators
65P20 Numerical chaos
65P30 Bifurcation problems
65P40 Nonlinear stabilities
65P99 None of the above, but in this section
65Q05 Difference and functional equations, recurrence relations
65Rxx Integral equations, integral transforms
65R10 Integral transforms
65R20 Integral equations
65R30 Improperly posed problems
65R32 Inverse problems
65R99 None of the above, but in this section
65S05 Graphical methods
65Txx Numerical methods in Fourier analysis
65T40 Trigonometric approximation and interpolation
65T50 Discrete and fast Fourier transforms
65T60 Wavelets
65T99 None of the above, but in this section
65Yxx Computer aspects of numerical algorithms
65Y05 Parallel computation
65Y10 Algorithms for specific classes of architectures
65Y15 Packaged methods
65Y20 Complexity and performance of numerical algorithms [See also 68Q25]
65Y99 None of the above, but in this section
65Z05 Applications to physics

68–XX **COMPUTER SCIENCE {For papers involving machine computations and programs in a specific mathematical area, see Section –04 in that area}**
68–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
68–01 Instructional exposition (textbooks, tutorial papers, etc.)
68–02 Research exposition (monographs, survey articles)
68–03 Historical (must also be assigned at least one classification number from Section 01)
68–04 Explicit machine computation and programs (not the theory of computation or programming)
68–06 Proceedings, conferences, collections, etc.
68Mxx **Computer system organization**
68M01 General
68M07 Mathematical problems of computer architecture
68M10 Network design and communication [See also 68R10, 90B18]
68M12 Network protocols
68M14 Distributed systems
68M15 Reliability, testing and fault tolerance [See also 94C12]
68M20 Performance evaluation; queueing; scheduling [See also 60K25, 90Bxx]
68M99 None of the above, but in this section
68Nxx **Software**
68N01 General
68N15 Programming languages
68N17 Logic programming
68N18 Functional programming and lambda calculus [See also 03B40]
68N19 Other programming techniques (object-oriented, sequential, concurrent, automatic, etc.)
68N20 Compilers and interpreters
68N25 Operating systems
68N30 Mathematical aspects of software engineering (specification, verification, metrics, requirements, etc.)
68N99 None of the above, but in this section
68Pxx **Theory of data**
68P01 General
68P05 Data structures
68P10 Searching and sorting
68P15 Database theory
68P20 Information storage and retrieval
68P25 Data encryption [See also 94A60, 81P68]
68P30 Coding and information theory (compaction, compression, models of communication, encoding schemes, etc.) [See also 94Axx]
68P99 None of the above, but in this section
68Qxx **Theory of computing**
68Q01 General
68Q05 Models of computation (Turing machines, etc.) [See also 03D10, 81P68]
68Q10 Modes of computation (nondeterministic, parallel, interactive, probabilistic, etc.) [See also 68Q85]
68Q15 Complexity classes (hierarchies, relations among complexity classes, etc.) [See also 03D15, 68Q17, 68Q19]
68Q17 Computational difficulty of problems (lower bounds, completeness, difficulty of approximation, etc.) [See also 68Q15]
68Q19 Descriptive complexity and finite models [See also 03C13]
68Q25 Analysis of algorithms and problem complexity [See also 68W40]
68Q30 Algorithmic information theory (Kolmogorov complexity, etc.)
68Q32 Computational learning theory [See also 68T05]
68Q42 Grammars and rewriting systems
68Q45 Formal languages and automata [See also 03D05, 68Q70, 94A45]
68Q55 Semantics [See also 03B70, 06B35, 18C50]
68Q60 Specification and verification (program logics, model checking, etc.) [See also 03B70]
68Q65 Abstract data types; algebraic specification [See also 18C50]
68Q70 Algebraic theory of languages and automata [See also 18B20, 20M35]
68Q80 Cellular automata [See also 37B15]
68Q85 Models and methods for concurrent and distributed computing (process algebras, bisimulation, transition nets, etc.)
68Q99 None of the above, but in this section
68Rxx **Discrete mathematics in relation to computer science**
68R01 General
68R05 Combinatorics
68R10 Graph theory [See also 05Cxx, 90B10, 90B35, 90C35]
68R15 Combinatorics on words
68R99 None of the above, but in this section
68Txx **Artificial intelligence**
68T01 General
68T05 Learning and adaptive systems [See also 68Q32, 91E40]
68T10 Pattern recognition, speech recognition {For cluster analysis, see 62H30}
68T15 Theorem proving (deduction, resolution, etc.) [See also 03B35]
68T20 Problem solving (heuristics, search strategies, etc.)
68T27 Logic in artificial intelligence
68T30 Knowledge representation
68T35 Languages and software systems (knowledge-based systems, expert systems, etc.)
68T37 Reasoning under uncertainty
68T40 Robotics [See also 93C85]
68T45 Machine vision and scene understanding
68T50 Natural language processing [See also 03B65]
68T99 None of the above, but in this section
68Uxx **Computing methodologies and applications**
68U01 General
68U05 Computer graphics; computational geometry [See also 65D18]
68U07 Computer-aided design [See also 65D17]
68U10 Image processing
68U15 Text processing; mathematical typography
68U20 Simulation [See also 65Cxx]
68U35 Information systems (hypertext navigation, interfaces, decision support, etc.)
68U99 None of the above, but in this section
68Wxx **Algorithms {For numerical algorithms, see 65–XX; for combinatorics and graph theory, see 68Rxx}**
68W01 General
68W05 Nonnumerical algorithms
68W10 Parallel algorithms
68W15 Distributed algorithms
68W20 Randomized algorithms
68W25 Approximation algorithms
68W30 Symbolic computation and algebraic computation [See also 11Yxx, 12Y05, 13Pxx, 14Qxx, 16Z05, 17–08, 33F10]
68W35 VLSI algorithms
68W40 Analysis of algorithms [See also 68Q25]
68W99 None of the above, but in this section

70–XX **MECHANICS OF PARTICLES AND SYSTEMS {For relativistic mechanics, see 83A05 and 83C10; for statistical mechanics, see 82–XX}**
70–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
70–01 Instructional exposition (textbooks, tutorial papers, etc.)
70–02 Research exposition (monographs, survey articles)
70–03 Historical (must also be assigned at least one classification number from Section 01)
70–04 Explicit machine computation and programs (not the theory of computation or programming)
70–05 Experimental work
70–06 Proceedings, conferences, collections, etc.
70–08 Computational methods
70A05 **Axiomatics, foundations**
70Bxx **Kinematics [See also 53A17]**
70B05 Kinematics of a particle
70B10 Kinematics of a rigid body
70B15 Mechanisms, robots [See also 68T40, 70Q05, 93C85]
70B99 None of the above, but in this section
70C20 **Statics**
70Exx **Dynamics of a rigid body and of multibody systems**
70E05 Motion of the gyroscope
70E15 Free motion of a rigid body [See also 70M20]
70E17 Motion of a rigid body with a fixed point
70E18 Motion of a rigid body in contact with a solid surface. [See also 70F25]
70E20 Perturbation methods for rigid body dynamics
70E40 Integrable cases of motion
70E45 Higher-dimensional generalizations
70E50 Stability problems
70E55 Dynamics of multibody systems
70E60 Robot dynamics and control [See also 68T40, 70Q05, 93C85]
70E99 None of the above, but in this section
70Fxx **Dynamics of a system of particles, including celestial mechanics**
70F05 Two-body problems
70F07 Three-body problems
70F10 n-body problems
70F15 Celestial mechanics
70F16 Collisions in celestial mechanics, regularization
70F17 Inverse problems
70F20 Holonomic systems
70F25 Nonholonomic systems
70F35 Collision of rigid or pseudo-rigid bodies
70F40 Problems with friction
70F45 Infinite particle systems
70F99 None of the above, but in this section
70Gxx **General models, approaches, and methods [See also 37–XX]**
70G10 Generalized coordinates; event, impulse-energy, configuration, state, or phase space
70G40 Topological and differential-topological methods
70G45 Differential-geometric methods (tensors, connections, symplectic, Poisson, contact, Riemannian, nonholonomic, etc.) [See also 53Cxx, 53Dxx, 58Axx]

70G55 Algebraic geometry methods
70G60 Dynamical systems methods
70G65 Symmetries, Lie-group and Lie-algebra methods
70G70 Functional-analytic methods
70G75 Variational methods
70G99 None of the above, but in this section
70Hxx Hamiltonian and Lagrangian mechanics [See also 37Jxx]
70H03 Lagrange's equations
70H05 Hamilton's equations
70H06 Completely integrable systems and methods of integration
70H07 Nonintegrable systems
70H08 Nearly integrable Hamiltonian systems, KAM theory
70H09 Perturbation theories
70H11 Adiabatic invariants
70H12 Periodic and almost periodic solutions
70H14 Stability problems
70H15 Canonical and symplectic transformations
70H20 Hamilton-Jacobi equations
70H25 Hamilton's principle
70H30 Other variational principles
70H33 Symmetries and conservation laws, reverse symmetries, invariant manifolds and their bifurcations, reduction
70H40 Relativistic dynamics
70H45 Constrained dynamics, Dirac's theory of constraints [See also 70F20, 70F25, 70Gxx]
70H50 Higher-order theories
70H99 None of the above, but in this section
70Jxx Linear vibration theory
70J10 Modal analysis
70J25 Stability
70J30 Free motions
70J35 Forced motions
70J40 Parametric resonances
70J50 Systems arising from the discretization of structural vibration problems
70J99 None of the above, but in this section
70Kxx Nonlinear dynamics [See also 34Cxx, 37–XX]
70K05 Phase plane analysis, limit cycles
70K20 Stability
70K25 Free motions
70K28 Parametric resonances
70K30 Nonlinear resonances
70K40 Forced motions
70K42 Equilibria and periodic trajectories
70K43 Quasi-periodic motions and invariant tori
70K44 Homoclinic and heteroclinic trajectories
70K45 Normal forms
70K50 Bifurcations and instability
70K55 Transition to stochasticity (chaotic behavior) [See also 37D45]
70K60 General perturbation schemes
70K65 Averaging of perturbations
70K70 Systems with slow and fast motions
70K75 Nonlinear modes
70K99 None of the above, but in this section
70L05 Random vibrations [See also 74H50]
70M20 Orbital mechanics
70P05 Variable mass, rockets
70Q05 Control of mechanical systems [See also 58F13, 58F27, 60Gxx, 60Jxx]
70Sxx Classical field theories [See also 37Kxx, 37Lxx, 78–XX, 81Txx, 83–XX]
70S05 Lagrangian formalism and Hamiltonian formalism
70S10 Symmetries and conservation laws
70S15 Yang-Mills and other gauge theories
70S20 More general nonquantum field theories
70S99 None of the above, but in this section

74–XX MECHANICS OF DEFORMABLE SOLIDS

74–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
74–01 Instructional exposition (textbooks, tutorial papers, etc.)
74–02 Research exposition (monographs, survey articles)
74–03 Historical (must also be assigned at least one classification number from Section 01)
74–04 Explicit machine computation and programs (not the theory of computation or programming)
74–05 Experimental work
74 06 Proceedings, conferences, collections, etc.
74Axx Generalities, axiomatics, foundations of continuum mechanics of solids
74A05 Kinematics of deformation
74A10 Stress
74A15 Thermodynamics
74A20 Theory of constitutive functions
74A25 Molecular, statistical, and kinetic theories
74A30 Nonsimple materials
74A35 Polar materials
74A40 Random materials and composite materials
74A45 Theories of fracture and damage
74A50 Structured surfaces and interfaces, coexistent phases
74A55 Theories of friction (tribology)
74A60 Micromechanical theories
74A65 Reactive materials
74A99 None of the above, but in this section
74Bxx Elastic materials
74B05 Classical linear elasticity
74B10 Linear elasticity with initial stresses
74B15 Equations linearized about a deformed state (small deformations superposed on large)
74B20 Nonlinear elasticity
74B99 None of the above, but in this section
74Cxx Plastic materials, materials of stress-rate and internal-variable type
74C05 Small-strain, rate-independent theories (including rigid-plastic and elasto-plastic materials)
74C10 Small-strain, rate-dependent theories (including theories of viscoplasticity)
74C15 Large-strain, rate-independent theories (including nonlinear plasticity)
74C20 Large-strain, rate-dependent theories
74C99 None of the above, but in this section
74Dxx Materials of strain-rate type and history type, other materials with memory (including elastic materials with viscous damping, various viscoelastic materials)
74D05 Linear constitutive equations
74D10 Nonlinear constitutive equations
74D99 None of the above, but in this section
74Exx Material properties given special treatment
74E05 Inhomogeneity
74E10 Anisotropy
74E15 Crystalline structure
74E20 Granularity
74E25 Texture
74E30 Composite and mixture properties
74E35 Random structure
74E40 Chemical structure
74E99 None of the above, but in this section
74Fxx Coupling of solid mechanics with other effects
74F05 Thermal effects
74F10 Fluid-solid interactions (including aero- and hydro-elasticity, porosity, etc.)
74F15 Electromagnetic effects
74F20 Mixture effects
74F25 Chemical and reactive effects
74F99 None of the above, but in this section
74Gxx Equilibrium (steady-state) problems
74G05 Explicit solutions
74G10 Analytic approximation of solutions (perturbation methods, asymptotic methods, series, etc.)
74G15 Numerical approximation of solutions
74G20 Local existence of solutions (near a given solution)
74G25 Global existence of solutions
74G30 Uniqueness of solutions
74G35 Multiplicity of solutions
74G40 Regularity of solutions
74G45 Bounds for solutions
74G50 Saint-Venant's principle
74G55 Qualitative behavior of solutions
74G60 Bifurcation and buckling
74G65 Energy minimization
74G70 Stress concentrations, singularities
74G75 Inverse problems
74G99 None of the above, but in this section
74Hxx Dynamical problems
74H05 Explicit solutions
74H10 Analytic approximation of solutions (perturbation methods, asymptotic methods, series, etc.)
74H15 Numerical approximation of solutions
74H20 Existence of solutions
74H25 Uniqueness of solutions
74H30 Regularity of solutions
74H35 Singularities, blowup, stress concentrations
74H40 Long-time behavior of solutions
74H45 Vibrations
74H50 Random vibrations
74H55 Stability
74H60 Dynamical bifurcation
74H65 Chaotic behavior
74H99 None of the above, but in this section

74Jxx **Waves**
74J05 Linear waves
74J10 Bulk waves
74J15 Surface waves
74J20 Wave scattering
74J25 Inverse problems
74J30 Nonlinear waves
74J35 Solitary waves
74J40 Shocks and related discontinuities
74J99 None of the above, but in this section
74Kxx **Thin bodies, structures**
74K05 Strings
74K10 Rods (beams, columns, shafts, arches, rings, etc.)
74K15 Membranes
74K20 Plates
74K25 Shells
74K30 Junctions
74K35 Thin films
74K99 None of the above, but in this section
74Lxx **Special subfields of solid mechanics**
74L05 Geophysical solid mechanics [See also 86–XX]
74L10 Soil and rock mechanics
74L15 Biomechanical solid mechanics [See also 92C10]
74L99 None of the above, but in this section
74Mxx **Special kinds of problems**
74M05 Control, switches and devices ("smart materials") [See also 93Cxx]
74M10 Friction
74M15 Contact
74M20 Impact
74M25 Micromechanics
74M99 None of the above, but in this section
74Nxx **Phase transformations in solids [See also 74A50, 80Axx, 82B26, 82C26]**
74N05 Crystals
74N10 Displacive transformations
74N15 Analysis of microstructure
74N20 Dynamics of phase boundaries
74N25 Transformations involving diffusion
74N30 Problems involving hysteresis
74N99 None of the above, but in this section
74Pxx **Optimization [See also 49Qxx]**
74P05 Compliance or weight optimization
74P10 Optimization of other properties
74P15 Topological methods
74P20 Geometrical methods
74P99 None of the above, but in this section
74Qxx **Homogenization, determination of effective properties**
74Q05 Homogenization in equilibrium problems
74Q10 Homogenization and oscillations in dynamical problems
74Q15 Effective constitutive equations
74Q20 Bounds on effective properties
74Q99 None of the above, but in this section
74Rxx **Fracture and damage**
74R05 Brittle damage
74R10 Brittle fracture
74R15 High-velocity fracture
74R20 Anelastic fracture and damage
74R99 None of the above, but in this section
74Sxx **Numerical methods [See also 65–XX, 74G15, 74H15]**
74S05 Finite element methods
74S10 Finite volume methods
74S15 Boundary element methods
74S20 Finite difference methods
74S25 Spectral and related methods
74S30 Other numerical methods
74S99 None of the above, but in this section

76–XX **FLUID MECHANICS {For general continuum mechanics, see 74Axx, or other parts of 74–XX}**
76–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
76–01 Instructional exposition (textbooks, tutorial papers, etc.)
76–02 Research exposition (monographs, survey articles)
76–03 Historical (must also be assigned at least one classification number from Section 01)
76–04 Explicit machine computation and programs (not the theory of computation or programming)
76–05 Experimental work
76–06 Proceedings, conferences, collections, etc.
76Axx **Foundations, constitutive equations, rheology**
76A02 Foundations of fluid mechanics
76A05 Non-Newtonian fluids
76A10 Viscoelastic fluids
76A15 Liquid crystals [See also 82D30]
76A20 Thin fluid films
76A25 Superfluids (classical aspects)
76A99 None of the above, but in this section
76Bxx **Incompressible inviscid fluids**
76B03 Existence, uniqueness, and regularity theory [See also 35Q35]
76B07 Free-surface potential flows
76B10 Jets and cavities, cavitation, free-streamline theory, water-entry problems, airfoil and hydrofoil theory, sloshing
76B15 Water waves, gravity waves; dispersion and scattering, nonlinear interaction [See also 35Q30, 35Q53]
76B20 Ship waves
76B25 Solitary waves [See also 35Q51]
76B45 Capillarity (surface tension) [See also 76D45]
76B47 Vortex flows
76B55 Internal waves
76B60 Atmospheric waves [See also 86A10]
76B65 Rossby waves [See also 86A05, 86A10]
76B70 Stratification effects in inviscid fluids
76B75 Flow control and optimization [See also 49Q10, 93C20, 93C95]
76B99 None of the above, but in this section
76Dxx **Incompressible viscous fluids**
76D03 Existence, uniqueness, and regularity theory [See also 35Q30, 35Q35]
76D05 Navier-Stokes equations [See also 35Q30]
76D06 Statistical solutions of Navier-Stokes and related equations [See also 60H30, 76M35]
76D07 Stokes and related (Oseen, etc.) flows
76D08 Lubrication theory
76D09 Viscous-inviscid interaction
76D10 Boundary-layer theory, separation and reattachment, higher-order effects
76D17 Viscous vortex flows
76D25 Wakes and jets
76D27 Other free-boundary flows; Hele-Shaw flows
76D33 Waves
76D45 Capillarity (surface tension) [See also 76B45]
76D50 Stratification effects in viscous fluids
76D55 Flow control and optimization [See also 49Q10, 93C20, 93C95]
76D99 None of the above, but in this section
76Exx **Hydrodynamic stability**
76E05 Parallel shear flows
76E06 Convection
76E07 Rotation
76E09 Stability and instability of nonparallel flows
76E15 Absolute and convective instability and stability
76E17 Interfacial stability and instability
76E19 Compressibility effects
76E20 Stability and instability of geophysical and astrophysical flows
76E25 Stability and instability of magnetohydrodynamic and electrohydrodynamic flows
76E30 Nonlinear effects
76E99 None of the above, but in this section
76Fxx **Turbulence [See also 37–XX, 60Gxx, 60Jxx]**
76F02 Fundamentals
76F05 Isotropic turbulence; homogeneous turbulence
76F06 Transition to turbulence
76F10 Shear flows
76F20 Dynamical systems approach to turbulence [See also 37–XX]
76F25 Turbulent transport, mixing
76F30 Renormalization and other field-theoretical methods [See also 81T99]
76F35 Convective turbulence [See also 76E15, 76Rxx]
76F40 Turbulent boundary layers
76F45 Stratification effects
76F50 Compressibility effects
76F55 Statistical turbulence modeling [See also 76M35]
76F60 k-ε modeling
76F65 Direct numerical and large eddy simulation of turbulence
76F70 Control of turbulent flows
76F99 None of the above, but in this section
76G25 **General aerodynamics and subsonic flows**
76H05 **Transonic flows**
76J20 **Supersonic flows**
76K05 **Hypersonic flows**
76L05 **Shock waves and blast waves [See also 35L67]**
76Mxx **Basic methods in fluid mechanics [See also 65–XX]**
76M10 Finite element methods
76M12 Finite volume methods
76M15 Boundary element methods
76M20 Finite difference methods
76M22 Spectral methods
76M23 Vortex methods
76M25 Other numerical methods
76M27 Visualization algorithms

76M28 Particle methods and lattice-gas methods
76M30 Variational methods
76M35 Stochastic analysis
76M40 Complex-variables methods
76M45 Asymptotic methods, singular perturbations
76M50 Homogenization
76M55 Dimensional analysis and similarity
76M60 Symmetry analysis, Lie group and algebra methods
76M99 None of the above, but in this section
76Nxx Compressible fluids and gas dynamics, general
76N10 Existence, uniqueness, and regularity theory [See also 35L60, 35L65, 35Q30]
76N15 Gas dynamics, general
76N17 Viscous-inviscid interaction
76N20 Boundary-layer theory
76N25 Flow control and optimization
76N99 None of the above, but in this section
76P05 Rarefied gas flows, Boltzmann equation [See also 82B40, 82C40, 82D05]
76Q05 Hydro- and aero-acoustics
76Rxx Diffusion and convection
76R05 Forced convection
76R10 Free convection
76R50 Diffusion [See also 60J60]
76R99 None of the above, but in this section
76S05 Flows in porous media; filtration; seepage
76Txx Two-phase and multiphase flows
76T10 Liquid-gas two-phase flows, bubbly flows
76T15 Dusty-gas two-phase flows
76T20 Suspensions
76T25 Granular flows [See also 74C99, 74E20]
76T30 Three or more component flows
76T99 None of the above, but in this section
76U05 Rotating fluids
76V05 Reaction effects in flows [See also 80A32]
76W05 Magnetohydrodynamics and electrohydrodynamics
76X05 Ionized gas flow in electromagnetic fields; plasmic flow [See also 82D10]
76Y05 Quantum hydrodynamics and relativistic hydrodynamics [See also 83C55, 85A30]
76Zxx Biological fluid mechanics [See also 74F10, 74L15, 92Cxx]
76Z05 Physiological flows [See also 92C35]
76Z10 Biopropulsion in water and in air
76Z99 None of the above, but in this section

78–XX OPTICS, ELECTROMAGNETIC THEORY {For quantum optics, see 81V80}
78–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
78–01 Instructional exposition (textbooks, tutorial papers, etc.)
78–02 Research exposition (monographs, survey articles)
78–03 Historical (must also be assigned at least one classification number from Section 01)
78–04 Explicit machine computation and programs (not the theory of computation or programming)
78–05 Experimental work
78–06 Proceedings, conferences, collections, etc.
78Axx General
78A02 Foundations
78A05 Geometric optics
78A10 Physical optics
78A15 Electron optics
78A20 Space charge waves
78A25 Electromagnetic theory, general
78A30 Electro- and magnetostatics
78A35 Motion of charged particles
78A40 Waves and radiation
78A45 Diffraction, scattering [See also 34E20 for WKB methods]
78A46 Inverse scattering problems
78A48 Composite media; random media
78A50 Antennas, wave-guides
78A55 Technical applications
78A60 Lasers, masers, optical bistability, nonlinear optics [See also 81V80]
78A70 Biological applications [See also 91D30, 92C30]
78A97 Mathematically heuristic optics and electromagnetic theory (must also be assigned at least one other classification number in this section)
78A99 Miscellaneous topics
78Mxx Basic methods
78M05 Method of moments
78M10 Finite element methods
78M15 Boundary element methods
78M20 Finite difference methods
78M25 Other numerical methods
78M30 Variational methods
78M35 Asymptotic analysis
78M40 Homogenization
78M50 Optimization
78M99 None of the above, but in this section

80–XX CLASSICAL THERMODYNAMICS, HEAT TRANSFER {For thermodynamics of solids, see 74A15}
80–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
80–01 Instructional exposition (textbooks, tutorial papers, etc.)
80–02 Research exposition (monographs, survey articles)
80–03 Historical (must also be assigned at least one classification number from Section 01)
80–04 Explicit machine computation and programs (not the theory of computation or programming)
80–05 Experimental work
80–06 Proceedings, conferences, collections, etc.
80Axx Thermodynamics and heat transfer
80A05 Foundations
80A10 Classical thermodynamics, including relativistic
80A17 Thermodynamics of continua [See also 74A15]
80A20 Heat and mass transfer, heat flow
80A22 Stefan problems, phase changes, etc. [See also 74Nxx]
80A23 Inverse problems
80A25 Combustion
80A30 Chemical kinetics [See also 76V05, 92C45, 92E20]
80A32 Chemically reacting flows [See also 92C45, 92E20]
80A50 Chemistry (general) [See mainly 92Exx]
80A99 None of the above, but in this section
80Mxx Basic methods
80M10 Finite element methods
80M15 Boundary element methods
80M20 Finite difference methods
80M25 Other numerical methods
80M30 Variational methods
80M35 Asymptotic analysis
80M40 Homogenization
80M50 Optimization
80M99 None of the above, but in this section

81–XX QUANTUM THEORY
81–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
81–01 Instructional exposition (textbooks, tutorial papers, etc.)
81–02 Research exposition (monographs, survey articles)
81–03 Historical (must also be assigned at least one classification number from Section 01)
81–04 Explicit machine computation and programs (not the theory of computation or programming)
81–05 Experimental papers
81–06 Proceedings, conferences, collections, etc.
81–08 Computational methods
81Pxx Axiomatics, foundations, philosophy
81P05 General and philosophical
81P10 Logical foundations of quantum mechanics; quantum logic [See also 03G12, 06C15]
81P15 Quantum measurement theory
81P20 Stochastic mechanics (including stochastic electrodynamics)
81P68 Quantum computation and quantum cryptography [See also 68Q05, 94A60]
81P99 None of the above, but in this section
81Qxx General mathematical topics and methods in quantum theory
81Q05 Closed and approximate solutions to the Schrödinger, Dirac, Klein-Gordon and other quantum-mechanical equations
81Q10 Selfadjoint operator theory in quantum theory, including spectral analysis
81Q15 Perturbation theories for operators and differential equations
81Q20 Semiclassical techniques including WKB and Maslov methods
81Q30 Feynman integrals and graphs; applications of algebraic topology and algebraic geometry [See also 14D05, 32S40]
81Q40 Bethe-Salpeter and other integral equations
81Q50 Quantum chaos [See also 37Dxx]
81Q60 Supersymmetric quantum mechanics
81Q70 Differential-geometric methods, including holonomy, Berry and Hannay phases, etc.
81Q99 None of the above, but in this section
81Rxx Groups and algebras in quantum theory
81R05 Finite-dimensional groups and algebras motivated by physics and their representations [See also 20C35, 22E70]
81R10 Infinite-dimensional groups and algebras motivated by physics, including Virasoro, Kac-Moody, W-algebras and other current algebras and their representations [See also 17B65, 17B67, 22E65, 22E67, 22E70]
81R12 Relations with integrable systems [See also 17Bxx, 37J35]
81R15 Operator algebra methods [See also 46Lxx, 81T05]

81R20 Covariant wave equations
81R25 Spinor and twistor methods [See also 32L25]
81R30 Coherent states [See also 22E45]; squeezed states [See also 81V80]
81R40 Symmetry breaking
81R50 Quantum groups and related algebraic methods [See also 16W35, 17B37]
81R60 Noncommutative geometry
81R99 None of the above, but in this section
81Sxx General quantum mechanics and problems of quantization
81S05 Commutation relations and statistics
81S10 Geometry and quantization, symplectic methods [See also 53D50]
81S20 Stochastic quantization
81S25 Quantum stochastic calculus
81S30 Phase space methods including Wigner distributions, etc.
81S40 Path integrals [See also 58D30]
81S99 None of the above, but in this section
81Txx Quantum field theory; related classical field theories [See also 70Sxx]
81T05 Axiomatic quantum field theory; operator algebras
81T08 Constructive quantum field theory
81T10 Model quantum field theories
81T13 Yang-Mills and other gauge theories [See also 53C07, 58E15]
81T15 Perturbative methods of renormalization
81T16 Nonperturbative methods of renormalization
81T17 Renormalization group methods
81T18 Feynman diagrams
81T20 Quantum field theory on curved space backgrounds
81T25 Quantum field theory on lattices
81T27 Continuum limits
81T30 String and superstring theories; other extended objects (e.g., branes) [See also 83E30]
81T40 Two-dimensional field theories, conformal field theories, etc.
81T45 Topological field theories [See also 57R56, 58Dxx]
81T50 Anomalies
81T60 Supersymmetric field theories
81T70 Quantization in field theory; cohomological methods [See also 58D29]
81T75 Noncommutative geometry methods [See also 46L85, 46L87, 58B34]
81T80 Simulation and numerical modeling
81T99 None of the above, but in this section
81Uxx Scattering theory [See also 34A55, 34L25, 34L40, 35P25, 47A40]
81U05 2-body potential scattering theory [See also 34E20 for WKB methods]
81U10 n-body potential scattering theory
81U15 Exactly and quasi-solvable systems
81U20 S-matrix theory, etc.
81U30 Dispersion theory, dispersion relations
81U40 Inverse scattering problems
81U99 None of the above, but in this section
81Vxx Applications to specific physical systems
81V05 Strong interaction, including quantum chromodynamics
81V10 Electromagnetic interaction; quantum electrodynamics
81V15 Weak interaction
81V17 Gravitational interaction [See also 83Cxx and 83Exx]
81V19 Other fundamental interactions
81V22 Unified theories
81V25 Other elementary particle theory
81V35 Nuclear physics
81V45 Atomic physics
81V55 Molecular physics [See also 92E10]
81V70 Many-body theory; quantum Hall effect
81V80 Quantum optics
81V99 None of the above, but in this section

82–XX STATISTICAL MECHANICS, STRUCTURE OF MATTER

82–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
82–01 Instructional exposition (textbooks, tutorial papers, etc.)
82–02 Research exposition (monographs, survey articles)
82–03 Historical (must also be assigned at least one classification number from Section 01)
82–04 Explicit machine computation and programs (not the theory of computation or programming)
82–05 Experimental papers
82–06 Proceedings, conferences, collections, etc.
82–08 Computational methods
82Bxx Equilibrium statistical mechanics
82B03 Foundations
82B05 Classical equilibrium statistical mechanics (general)
82B10 Quantum equilibrium statistical mechanics (general)
82B20 Lattice systems (Ising, dimer, Potts, etc.) and systems on graphs
82B21 Continuum models (systems of particles, etc.)
82B23 Exactly solvable models; Bethe ansatz
82B24 Interface problems; diffusion-limited aggregation
82B26 Phase transitions (general)
82B27 Critical phenomena
82B28 Renormalization group methods [See also 81T17]
82B30 Statistical thermodynamics [See also 80–XX]
82B31 Stochastic methods
82B35 Irreversible thermodynamics, including Onsager-Machlup theory [See also 92E20]
82B40 Kinetic theory of gases
82B41 Random walks, random surfaces, lattice animals, etc. [See also 60G50, 82C41]
82B43 Percolation [See also 60K35]
82B44 Disordered systems (random Ising models, random Schrödinger operators, etc.)
82B80 Numerical methods (Monte Carlo, series resummation, etc.) [See also 65–XX, 81T80]
82B99 None of the above, but in this section
82Cxx Time-dependent statistical mechanics (dynamic and nonequilibrium)
82C03 Foundations
82C05 Classical dynamic and nonequilibrium statistical mechanics (general)
82C10 Quantum dynamics and nonequilibrium statistical mechanics (general)
82C20 Dynamic lattice systems (kinetic Ising, etc.) and systems on graphs
82C21 Dynamic continuum models (systems of particles, etc.)
82C22 Interacting particle systems [See also 60K35]
82C23 Exactly solvable dynamic models [See also 37K60]
82C24 Interface problems; diffusion-limited aggregation
82C26 Dynamic and nonequilibrium phase transitions (general)
82C27 Dynamic critical phenomena
82C28 Dynamic renormalization group methods [See also 81T17]
82C31 Stochastic methods (Fokker-Planck, Langevin, etc.) [See also 60H10]
82C32 Neural nets [See also 68T05, 91E40, 92B20]
82C35 Irreversible thermodynamics, including Onsager-Machlup theory
82C40 Kinetic theory of gases
82C41 Dynamics of random walks, random surfaces, lattice animals, etc. [See also 60G50]
82C43 Time-dependent percolation [See also 60K35]
82C44 Dynamics of disordered systems (random Ising systems, etc.)
82C70 Transport processes
82C80 Numerical methods (Monte Carlo, series resummation, etc.)
82C99 None of the above, but in this section
82Dxx Applications to specific types of physical systems
82D05 Gases
82D10 Plasmas
82D15 Liquids
82D20 Solids
82D25 Crystals {For crystallographic group theory, see 20H15}
82D30 Random media, disordered materials (including liquid crystals and spin glasses)
82D35 Metals
82D37 Semiconductors
82D40 Magnetic materials
82D45 Ferroelectrics
82D50 Superfluids
82D55 Superconductors
82D60 Polymers
82D75 Nuclear reactor theory; neutron transport
82D99 None of the above, but in this section

83–XX RELATIVITY AND GRAVITATIONAL THEORY

83–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
83–01 Instructional exposition (textbooks, tutorial papers, etc.)
83–02 Research exposition (monographs, survey articles)
83–03 Historical (must also be assigned at least one classification number from Section 01)
83–04 Explicit machine computation and programs (not the theory of computation or programming)
83–05 Experimental work
83–06 Proceedings, conferences, collections, etc.
83–08 Computational methods
83A05 Special relativity
83B05 Observational and experimental questions
83Cxx General relativity
83C05 Einstein's equations (general structure, canonical formalism, Cauchy problems)
83C10 Equations of motion
83C15 Exact solutions
83C20 Classes of solutions; algebraically special solutions, metrics with symmetries
83C22 Einstein-Maxwell equations
83C25 Approximation procedures, weak fields
83C27 Lattice gravity, Regge calculus and other discrete methods
83C30 Asymptotic procedures (radiation, news functions, $\mathscr{H}$-spaces, etc.)
83C35 Gravitational waves
83C40 Gravitational energy and conservation laws; groups of motions
83C45 Quantization of the gravitational field

83C47 Methods of quantum field theory [See also 81T20]
83C50 Electromagnetic fields
83C55 Macroscopic interaction of the gravitational field with matter (hydrodynamics, etc.)
83C57 Black holes
83C60 Spinor and twistor methods; Newman-Penrose formalism
83C65 Methods of noncommutative geometry [See also 58B34]
83C75 Space-time singularities, cosmic censorship, etc.
83C80 Analogues in lower dimensions
83C99 None of the above, but in this section
83D05 Relativistic gravitational theories other than Einstein's, including asymmetric field theories
83Exx Unified, higher-dimensional and super field theories
83E05 Geometrodynamics
83E15 Kaluza-Klein and other higher-dimensional theories
83E30 String and superstring theories [See also 81T30]
83E50 Supergravity
83E99 None of the above, but in this section
83F05 Cosmology

85-XX ASTRONOMY AND ASTROPHYSICS {For celestial mechanics, see 70F15}
85-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
85-01 Instructional exposition (textbooks, tutorial papers, etc.)
85 02 Research exposition (monographs, survey articles)
85 03 Historical (must also be assigned at least one classification number from Section 01)
85-04 Explicit machine computation and programs (not the theory of computation or programming)
85-05 Experimental work
85-06 Proceedings, conferences, collections, etc.
85-08 Computational methods
85A04 General
85A05 Galactic and stellar dynamics
85A15 Galactic and stellar structure
85A20 Planetary atmospheres
85A25 Radiative transfer
85A30 Hydrodynamic and hydromagnetic problems [See also 76Y05]
85A35 Statistical astronomy
85A40 Cosmology {For relativistic cosmology, see 83F05}
85A99 Miscellaneous topics

86-XX GEOPHYSICS [See also 76U05, 76V05]
86 00 General reference works (handbooks, dictionaries, bibliographies, etc.)
86 01 Instructional exposition (textbooks, tutorial papers, etc.)
86 02 Research exposition (monographs, survey articles)
86 03 Historical (must also be assigned at least one classification number from Section 01)
86 04 Explicit machine computation and programs (not the theory of computation or programming)
86 05 Experimental work
86-06 Proceedings, conferences, collections, etc.
86-08 Computational methods
86A04 General
86A05 Hydrology, hydrography, oceanography [See also 76Bxx, 76E20, 76Q05, 76Rxx, 76U05]
86A10 Meteorology and atmospheric physics [See also 76Bxx, 76E20, 76N15, 76Q05, 76Rxx, 76U05]
86A15 Seismology
86A17 Global dynamics, earthquake problems
86A20 Potentials, prospecting
86A22 Inverse problems [See also 35R30]
86A25 Geo-electricity and geomagnetism [See also 76W05, 78A25]
86A30 Geodesy, mapping problems
86A32 Geostatistics
86A40 Glaciology
86A60 Geological problems
86A99 Miscellaneous topics

90-XX OPERATIONS RESEARCH, MATHEMATICAL PROGRAMMING
90 00 General reference works (handbooks, dictionaries, bibliographies, etc.)
90-01 Instructional exposition (textbooks, tutorial papers, etc.)
90-02 Research exposition (monographs, survey articles)
90-03 Historical (must also be assigned at least one classification number from Section 01)
90-04 Explicit machine computation and programs (not the theory of computation or programming)
90-06 Proceedings, conferences, collections, etc.
90 08 Computational methods
90Bxx Operations research and management science
90B05 Inventory, storage, reservoirs
90B06 Transportation, logistics
90B10 Network models, deterministic
90B15 Network models, stochastic
90B18 Communication networks [See also 68M10, 94A05]
90B20 Traffic problems
90B22 Queues and service [See also 60K25, 68M20]
90B25 Reliability, availability, maintenance, inspection [See also 60K10, 62N05]
90B30 Production models
90B35 Scheduling theory, deterministic [See also 68M20]
90B36 Scheduling theory, stochastic [See also 68M20]
90B40 Search theory
90B50 Management decision making, including multiple objectives [See also 90C31, 91A35, 91B06]
90B60 Marketing, advertising [See also 91B60]
90B70 Theory of organizations, manpower planning [See also 91D35]
90B80 Discrete location and assignment [See also 90C10]
90B85 Continuous location
90B90 Case-oriented studies
90B99 None of the above, but in this section
90Cxx Mathematical programming [See also 49Mxx, 65Kxx]
90C05 Linear programming
90C06 Large-scale problems
90C08 Special problems of linear programming (transportation, multi-index, etc.)
90C09 Boolean programming
90C10 Integer programming
90C11 Mixed integer programming
90C15 Stochastic programming
90C20 Quadratic programming
90C22 Semidefinite programming
90C25 Convex programming
90C26 Nonconvex programming
90C27 Combinatorial optimization
90C29 Multi-objective and goal programming
90C30 Nonlinear programming
90C31 Sensitivity, stability, parametric optimization
90C32 Fractional programming
90C33 Complementarity problems
90C34 Semi-infinite programming
90C35 Programming involving graphs or networks [See also 90C27]
90C39 Dynamic programming [See also 49L20]
90C40 Markov and semi-Markov decision processes
90C46 Optimality conditions, duality [See also 49N15]
90C47 Minimax problems [See also 49K35]
90C48 Programming in abstract spaces
90C49 Extreme-point and pivoting methods
90C51 Interior-point methods
90C52 Methods of reduced gradient type
90C53 Methods of quasi-Newton type
90C55 Methods of successive quadratic programming type
90C56 Derivative-free methods
90C57 Polyhedral combinatorics, branch-and-bound, branch-and-cut
90C59 Approximation methods and heuristics
90C60 Abstract computational complexity for mathematical programming problems [See also 68Q25]
90C70 Fuzzy programming
90C90 Applications of mathematical programming
90C99 None of the above, but in this section

91-XX GAME THEORY, ECONOMICS, SOCIAL AND BEHAVIORAL SCIENCES
91-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
91-01 Instructional exposition (textbooks, tutorial papers, etc.)
91-02 Research exposition (monographs, survey articles)
91-03 Historical (must also be assigned at least one classification number from section 01)
91-04 Explicit machine computation and programs (not the theory of computation or programming)
91-06 Proceedings, conferences, collections, etc.
91 08 Computational methods
91Axx Game theory
91A05 2-person games
91A06 n-person games, $n > 2$
91A10 Noncooperative games
91A12 Cooperative games
91A13 Games with infinitely many players
91A15 Stochastic games
91A18 Games in extensive form
91A20 Multistage and repeated games
91A22 Evolutionary games
91A23 Differential games [See also 49N70]
91A24 Positional games (pursuit and evasion, etc.) [See also 49N75]
91A25 Dynamic games
91A26 Rationality, learning

91A28 Signaling, communication
91A30 Utility theory for games [See also 91B16]
91A35 Decision theory for games [See also 62Cxx, 91B06, 90B50]
91A40 Game-theoretic models
91A43 Games involving graphs
91A44 Games involving topology or set theory
91A46 Combinatorial games
91A50 Discrete-time games
91A55 Games of timing
91A60 Probabilistic games; gambling
91A65 Hierarchical games
91A70 Spaces of games
91A80 Applications of game theory
91A90 Experimental studies
91A99 None of the above, but in this section
91Bxx Mathematical economics {For econometrics, see 62P20}
91B02 Fundamental topics (basic mathematics, methodology; applicable to economics in general)
91B06 Decision theory [See also 62Cxx, 90B50, 91A35]
91B08 Individual preferences
91B10 Group preferences
91B12 Voting theory
91B14 Social choice
91B16 Utility theory
91B18 Public goods
91B24 Price theory and market structure
91B26 Market models (auctions, bargaining, bidding, selling, etc.)
91B28 Finance, portfolios, investment
91B30 Risk theory, insurance
91B32 Resource and cost allocation
91B38 Production theory, theory of the firm
91B40 Labor market, contracts
91B42 Consumer behavior, demand theory
91B44 Informational economics
91B50 Equilibrium: general theory
91B52 Special types of equilibria
91B54 Special types of economies
91B60 General economic models, trade models
91B62 Dynamic economic models, growth models
91B64 Macro-economic models (monetary models, models of taxation)
91B66 Multisectoral models
91B68 Matching models
91B70 Stochastic models
91B72 Spatial models
91B74 Models of real-world systems
91B76 Environmental economics (natural resource models, harvesting, pollution, etc.)
91B82 Statistical methods; economic indices and measures
91B84 Economic time series analysis [See also 62M10]
91B99 None of the above, but in this section
91Cxx Social and behavioral sciences: general topics {For statistics, see 62–XX}
91C05 Measurement theory
91C15 One- and multidimensional scaling
91C20 Clustering [See also 62D05]
91C99 None of the above, but in this section
91Dxx Mathematical sociology (including anthropology)
91D10 Models of societies, social and urban evolution
91D20 Mathematical geography and demography
91D25 Spatial models [See also 91B72]
91D30 Social networks
91D35 Manpower systems [See also 91B40, 90B70]
91D99 None of the above, but in this section
91Exx Mathematical psychology
91E10 Cognitive psychology
91E30 Psychophysics and psychophysiology; perception
91E40 Memory and learning [See also 68T05]
91E45 Measurement and performance
91E99 None of the above, but in this section
91Fxx Other social and behavioral sciences (mathematical treatment)
91F10 History, political science
91F20 Linguistics [See also 03B65, 68T50]
91F99 None of the above, but in this section

92–XX BIOLOGY AND OTHER NATURAL SCIENCES

92–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
92–01 Instructional exposition (textbooks, tutorial papers, etc.)
92–02 Research exposition (monographs, survey articles)
92–03 Historical (must also be assigned at least one classification number from Section 01)
92–04 Explicit machine computation and programs (not the theory of computation or programming)
92–06 Proceedings, conferences, collections, etc.
92–08 Computational methods
92Bxx Mathematical biology in general
92B05 General biology and biomathematics
92B10 Taxonomy, statistics
92B15 General biostatistics [See also 62P10]
92B20 Neural networks, artificial life and related topics [See also 68T05, 82C32, 94Cxx]
92B99 None of the above, but in this section
92Cxx Physiological, cellular and medical topics
92C05 Biophysics
92C10 Biomechanics [See also 74L15]
92C15 Developmental biology, pattern formation
92C17 Cell movement (chemotaxis, etc.)
92C20 Neural biology
92C30 Physiology (general)
92C35 Physiological flow [See also 76Z05]
92C37 Cell biology
92C40 Biochemistry, molecular biology
92C45 Kinetics in biochemical problems (pharmacokinetics, enzyme kinetics, etc.) [See also 80A30]
92C50 Medical applications (general)
92C55 Biomedical imaging and signal processing [See also 44A12, 65R10]
92C60 Medical epidemiology
92C80 Plant biology
92C99 None of the above, but in this section
92Dxx Genetics and population dynamics
92D10 Genetics {For genetic algebras, see 17D92}
92D15 Problems related to evolution
92D20 Protein sequences, DNA sequences
92D25 Population dynamics (general)
92D30 Epidemiology
92D40 Ecology
92D50 Animal behavior
92D99 None of the above, but in this section
92Exx Chemistry {For biochemistry, see 92C40}
92E10 Molecular structure (graph-theoretic methods, methods of differential topology, etc.)
92E20 Classical flows, reactions, etc. [See also 80A30, 80A32]
92E99 None of the above, but in this section
92F05 Other natural sciences

93–XX SYSTEMS THEORY; CONTROL {For optimal control, see 49–XX}

93–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
93–01 Instructional exposition (textbooks, tutorial papers, etc.)
93–02 Research exposition (monographs, survey articles)
93–03 Historical (must also be assigned at least one classification number from Section 01)
93–04 Explicit machine computation and programs (not the theory of computation or programming)
93–06 Proceedings, conferences, collections, etc.
93Axx General
93A05 Axiomatic system theory
93A10 General systems
93A13 Hierarchical systems
93A14 Decentralized systems
93A15 Large scale systems
93A30 Mathematical modeling (models of systems, model-matching, etc.)
93A99 None of the above, but in this section
93Bxx Controllability, observability, and system structure
93B03 Attainable sets
93B05 Controllability
93B07 Observability
93B10 Canonical structure
93B11 System structure simplification
93B12 Variable structure systems
93B15 Realizations from input-output data
93B17 Transformations
93B18 Linearizations
93B20 Minimal systems representations
93B25 Algebraic methods
93B27 Geometric methods (including algebro-geometric)
93B28 Operator-theoretic methods [See also 47A48, 47A57, 47B35, 47N70]
93B29 Differential-geometric methods
93B30 System identification
93B35 Sensitivity (robustness)
93B36 H^∞-control
93B40 Computational methods
93B50 Synthesis problems
93B51 Design techniques (robust design, computer-aided design, etc.)
93B52 Feedback control
93B55 Pole and zero placement problems

93B60 Eigenvalue problems
93B99 None of the above, but in this section
93Cxx Control systems, guided systems
93C05 Linear systems
93C10 Nonlinear systems
93C15 Systems governed by ordinary differential equations [See also 34H05]
93C20 Systems governed by partial differential equations [See also 35B37]
93C23 Systems governed by functional-differential equations [See also 34K35]
93C25 Systems in abstract spaces
93C30 Systems governed by functional relations other than differential equations
93C35 Multivariable systems
93C40 Adaptive control
93C41 Problems with incomplete information
93C42 Fuzzy control
93C55 Discrete-time systems
93C57 Sampled-data systems
93C62 Digital systems
93C65 Discrete event systems
93C70 Time-scale analysis and singular perturbations
93C73 Perturbations
93C80 Frequency-response methods
93C83 Control problems involving computers (process control, etc.)
93C85 Automated systems (robots, etc.) [See also 68T40, 70B15, 70Q05]
93C95 Applications
93C99 None of the above, but in this section
93Dxx Stability
93D05 Lyapunov and other classical stabilities (Lagrange, Poisson, L^p, l^p, etc.)
93D09 Robust stability
93D10 Popov-type stability of feedback systems
93D15 Stabilization of systems by feedback
93D20 Asymptotic stability
93D21 Adaptive or robust stabilization
93D25 Input-output approaches
93D30 Scalar and vector Lyapunov functions
93D99 None of the above, but in this section
93Exx Stochastic systems and control
93E03 Stochastic systems, general
93E10 Estimation and detection [See also 60G35]
93E11 Filtering [See also 60G35]
93E12 System identification
93E14 Data smoothing
93E15 Stochastic stability
93E20 Optimal stochastic control
93E24 Least squares and related methods
93E25 Other computational methods
93E35 Stochastic learning and adaptive control
93E99 None of the above, but in this section

94–XX INFORMATION AND COMMUNICATION, CIRCUITS
94–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
94–01 Instructional exposition (textbooks, tutorial papers, etc.)
94–02 Research exposition (monographs, survey articles)
94–03 Historical (must also be assigned at least one classification number from Section 01)
94–04 Explicit machine computation and programs (not the theory of computation or programming)
94–06 Proceedings, conferences, collections, etc.
94Axx Communication, information
94A05 Communication theory [See also 60G35, 90B18]
94A08 Image processing (compression, reconstruction, etc.) [See also 68U10]
94A11 Application of orthogonal functions in communication
94A12 Signal theory (characterization, reconstruction, etc.)
94A13 Detection theory
94A14 Modulation and demodulation
94A15 Information theory, general [See also 62B10]
94A17 Measures of information, entropy
94A20 Sampling theory
94A24 Coding theorems (Shannon theory)
94A29 Source coding [See also 68P30]
94A34 Rate-distortion theory
94A40 Channel models
94A45 Prefix, length-variable, comma-free codes [See also 20M35, 68Q45]
94A50 Theory of questionnaires
94A55 Shift register sequences and sequences over finite alphabets
94A60 Cryptography [See also 11T71, 14G50, 68P25]
94A62 Authentication and secret sharing
94A99 None of the above, but in this section
94Bxx Theory of error-correcting codes and error-detecting codes
94B05 Linear codes, general
94B10 Convolutional codes
94B12 Combined modulation schemes (including trellis codes)
94B15 Cyclic codes
94B20 Burst-correcting codes
94B25 Combinatorial codes
94B27 Geometric methods (including applications of algebraic geometry) [See also 11T71, 14G50]
94B30 Majority codes
94B35 Decoding
94B40 Arithmetic codes [See also 11T71, 14G50]
94B50 Synchronization error-correcting codes
94B60 Other types of codes
94B65 Bounds on codes
94B70 Error probability
94B75 Applications of the theory of convex sets and geometry of numbers (covering radius, etc.) [See also 11H31]
94B99 None of the above, but in this section
94Cxx Circuits, networks
94C05 Analytic circuit theory
94C10 Switching theory, application of Boolean algebra; Boolean functions [See also 06E30]
94C12 Fault detection; testing
94C15 Applications of graph theory [See also 05Cxx, 68R10]
94C30 Applications of design theory [See also 05Bxx]
94C99 None of the above, but in this section
94D05 Fuzzy sets and logic (in connection with questions of Section 94) [See also 03B52, 03E72, 28E10]

97–XX MATHEMATICS EDUCATION
97–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
97–01 Instructional exposition (textbooks, tutorial papers, etc.)
97–02 Research exposition (monographs, survey articles)
97–03 Historical (must also be assigned at least one classification number from Section 01)
97–04 Explicit machine computation and programs (not the theory of computation or programming)
97–06 Proceedings, conferences, collections, etc.
97Axx General
97A20 Recreational mathematics [See also 00A08]
97A40 Sociological issues [See also 97C60]
97A80 Standards [See also 97B70]
97A90 Fiction and games
97Bxx Educational policy and educational systems
97B10 Educational research and planning
97B20 General education
97B30 Vocational education
97B40 Higher education
97B50 Teacher education {For research aspects see 97C70}
97B60 Out-of-school education. Adult and further education
97B70 Syllabuses. Curriculum guides, official documents [See also 97A80]
97B99 None of the above, but in this section
97Cxx Psychology of and research in mathematics education
97C20 Affective aspects (motivation, anxiety, persistence, etc.)
97C30 Student learning and thinking (misconceptions, cognitive development, problem solving, etc.)
97C40 Assessment (large scale assessment, validity, reliability, etc.) [See also 97D10]
97C50 Theoretical perspectives (learning theories, epistemology, philosophies of teaching and learning, etc.) [See also 97D20]
97C60 Sociological aspects of learning (culture, group interactions, equity issues, etc.)
97C70 Teachers, and research on teacher education (teacher development, etc.) [See also 97B50]
97C80 Technological tools and other materials in teaching and learning (research on innovations, role in student learning, use of tools by teachers, etc.)
97C90 Teaching and curriculum (innovations, teaching practices, studies of curriculum materials, effective teaching, etc.)
97C99 None of the above, but in this section
97Dxx Education and instruction in mathematics
97D10 Comparative studies on mathematics education [See also 97C40]
97D20 Philosophical and theoretical contributions to mathematical education [See also 97C50]
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97D50 Teaching problem solving and heuristic strategies {For research aspects see 97Cxx}
97D60 Achievement control and rating

97D70 Diagnosis, analysis and remediation of learning difficulties and student errors
97D80 Teaching units, draft lessons and master lessons
97D99 None of the above, but in this section

97Uxx Educational material and media. Educational technology

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97U30 Teacher manuals and planning aids
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